COL – 30 – 35.29	OHIO
	FHWA REGION 5
STATE	

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All references to any Federal No. appearing throughout these plans, shall be disregarded.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
COL-30-35.29
CITY OF EAST LIVERPOOL
COLUMBIANA COUNTY

CONVENTIONAL SIGNS

LIMITED ACCESS LINE ——LA——
CENTER LINE
EXISTING RIGHT OF WAY LINE ——R/W——
FENCE LINE ——x——x——
GUARD RAIL (EXISTING)
GUARD RAIL (PROPOSED)
PROPOSED DITCH FLOW
RAILROAD SIGNAL POLES
POLES-TELEPHONE, POWER
TREES, EXISTING
TREES, TO BE REMOVED
EXISTING WATER MAIN ——W——W——
PROPOSED WATER MAIN
EXISTING STORM SEWERS (UNDER 24" / OVER 24")
EXISTING COMBINED SEWERS
EXISTING SANITARY SEWERS
PROPOSED SEWERS
EXISTING MANHOLES
EXISTING CATCH BASINS
PROPOSED MANHOLES
PROPOSED CATCH BASINS
EXISTING FIRE HYDRANT
PROPOSED FIRE HYDRANT
EXISTING WATER MAIN VALVE
PROPOSED WATER MAIN VALVE
EXISTING WATER SERVICE VALVE
PROPOSED WATER SERVICE VALVE
EXISTING GAS LINE ——G——G——

INDEX OF SHEETS

LINE DATA

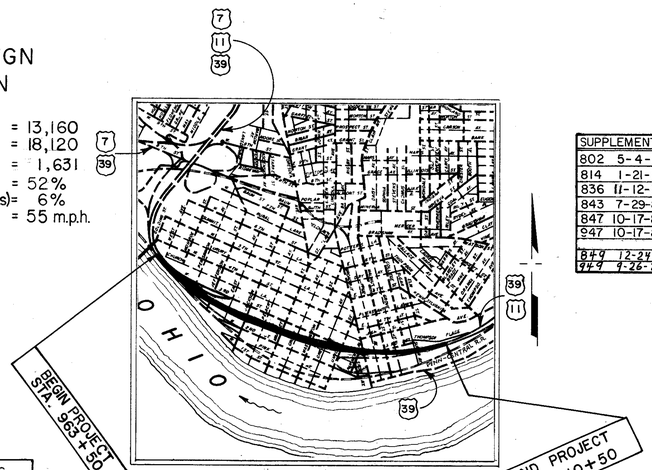
BEGIN PROJECT STA	963+50	MARKET STREET	
END PROJECT STA.	1010+50	BEGIN WORK STA.	48+85
LENGTH OF PROJECT	4700 L.F or 0.890 MILES	SUSPEND WORK STA.	49+82
		END WORK STA.	58+51
			583.02 L.F.
		RESUME WORK STA.	53+59.98
BEGIN WORK STA.	945+30	WASHINGTON STREET	
END WORK STA.	1035+00 ℄ 5	BEGIN WORK STA.	36+36.96
LENGTH OF WORK	8970 L.F or 1.699 MILES	SUSPEND WORK STA.	50+1:
		RESUME WORK	53+59.98
		END WORK STA.	54+27.50
			448.56 L.F
JACKSON STREET		BROADWAY	
BEGIN WORK STA.	48+35	BEGIN WORK STA.	41+45
END WORK STA.	54+61	END WORK STA.	51+18
	626 L.F		973 L.F.

ADD FOR LIGHTING
USR 30
STA 1035+50 ℄ 5 TO STA. 1071+00 ℄ 5 3550 L.F
STA. 1071+00 ℄ 5 = STA. 145+00 ℄ 64
STA. 145+00 ℄ 64 TO STA 152+78 ℄ 64 778 L.F
4328 L.F.

LENGTH OF WORK
15933.53 L.F
or
3.018 MILES

TRAFFIC DESIGN DESIGNATION

Current ADT (1990) = 13,160
Design Year ADT (2010) = 18,120
DHV = 1,631
D (Directional Distribution) = 52%
T (Percent of B and C Trucks) = 6%
V (Design Speed) = 55 m.p.h.



LOCATION MAP

SCALE IN FEET
0 500 1000 2000 4000

PORTION TO BE IMPROVED
EXISTING ROADS & ST'S
IMPROVEMENT BY OTHERS
STATE HIGHWAY
UNITED STATES HIGHWAY

SCALE
PLAN 0 10 20 40
PROFILE, HORIZ. 0 10 20 40
PROFILE, VERT 0 5 10

SUPPLEMENTAL SPECIFICATIONS		
802	5-4-88	845 5-31-88
814	1-21-88	953 8-21-90
836	11-12-85	841 5-16-84
843	7-29-88	931 6-18-85
847	10-17-83	942 11-21-89
947	10-17-83	940 6-10-87
849	12-24-85	944 6-24-89
949	9-26-86	

UNDERGROUND UTILITIES

2 WORKING DAYS
BEFORE YOU DIG
Call... 800-362-2764 (Toll free)
OHIO UTILITIES PROTECTION SERVICE

NON MEMBERS
MUST BE CALLED DIRECTLY

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR OF TRANSPORTATION IN ACCORDANCE WITH THE PROVISIONS OF SEC. 5511.02 OF THE REVISED CODE OF OHIO.

— 1989 SPECIFICATIONS —

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS PROJECT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS.

APPROVED Thomas J. Hunt
DATE 2-27-85 DISTRICT DEPUTY DIRECTOR

APPROVED B.D. Haubiamni / WTK
DATE 1/2/90 ENGINEER, BUREAU OF BRIDGES AND STRUCTURAL DESIGN

APPROVED Theodore J. Stitt
DATE 1/30/90 DEPUTY DIRECTOR, PLANNING AND DESIGN

APPROVED Bernard O. Hurst
DATE 1/30/90 DIRECTOR, DEPARTMENT OF TRANSPORTATION

GLAUS, PYLE, SCHOMER, BURNS, & DEHAVEN, INC.
AKRON, OHIO

W. K. DeHaven
W. K. DEHAVEN, P.E.
REG. PROF. ENGINEER
Nº 20877
Jan 4, 1985
DATE

FILE Nº COL – 30-35.29
DATE OF LETTING _____ 19
CONTRACT Nº _____

REVISED 8-30-90
REVISED 3-26-90

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

SHEET	DATE	SHEET	DATE	SHEET	DATE	SHEET	DATE	SHEET	DATE	SHEET	DATE	SHEET	DATE	SHEET	DATE	SHEET	DATE	SHEET	DATE
CB-2-2-AB	5-1-79	MH-2	6-12-75	MC-10	5-1-76			GR-4	2-5-82	SD-1-69	6-12-69	TC-21.40	3-1-79	TC-41.40	6-18-79	TC-71.10	4-9-79	HL-10.13	5-1-87		
CB2-3B2-4	5-1-79	MH-3	12-18-84	MC-11	8-1-78	LA-2	6-1-79	GR-4A	1-30-84	EXJ-2-81	4-2-84	TC-22.10	3-1-79	TC-41.50	3-26-79	TC-72.20	2-26-82	HL-20.11	5-1-87	HL-30.33	5-1-87
CB-3A	5-1-79	MH-5	6-12-75	BP-5	10-1-87	LA-1	6-1-79	GR-5	2-5-82	TC-7.65	3-1-79	TC-22.20	3-1-79	TC-42.10	8-19-77	TC-83.10	1-20-84	HL-20.13	5-1-87	HL-40.10	5-1-87
CB-5	11-10-83	MC-1	6-13-69	BP-6	10-1-87	GR-2C	2-5-82	GR-6	2-5-82	TC-12.30	1-20-84	TC-31.21	3-6-79	TC-42.20	3-26-79	TC-84.20	1-20-84	HL 20.14	5-1-87	HL-50.11	5-1-87
CB-6	5-1-79			BP-7	10-1-87	GR-1	1-11-85	I3C & D	4-1-80	TC-16.20	1-20-84	TC-32.10	3-8-79	TC-51.10	1-20-84	TC-85.20	1-20-84	HL-20.31	5-1-87	HL-50.21	5-1-87
CB-458A	5-1-79	MC-4	7-26-76	BP-12	8-1-87	GR-2B	2-5-82	AS-1-81	11-27-81	TC-18.24	4-25-79	TC-32.11	3-21-79	TC-51.11	1-20-84	MT-95.30	10-10-88	HL-30.11	5-1-87	HL-60.11	5-1-87
I-2A	12-18-84	MC-5	6-12-75	F-1	11-10-83	GR-3	1-21-85	BR-1	5-29-79	TC-18.26	5-31-79	TC-35.10	8-29-84	TC-52.10	4-3-79	MT-99.10	11-14-86	HL-30.21	5-1-87	HL-60.12	5-1-87
I-3A&B	4-1-80	MC-7	10-15-76	F-3	5-1-76	GR-3A	2-5-82	BR-2-82	11-1-82	TC-21.10	1-20-84	TC-41.10	8-29-84	TC-52.20	4-3-79	HL-10.11	5-1-87	HL-30.22	5-1-87	HL-60.31	5-1-87
MH-1	12-18-84	MC-9	1-30-84	F-4	11-10-83	GR-3B	1-21-85	RB-1-55	2-2-59	TC-21.20	1-20-84	TC-41.20	3-26-79	TC-61.10	4-5-82	IL-10.12	5-1-87	HL-30.31	5-1-87		

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL-30-35.29

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See Signing and Pavement Marking Plan Sh. 259

BEGIN WORK STA. 945+30

BEGIN PROJECT STA 963+50 ℄ Nº 1 SLM-35.29

BEGIN 40:1 TAPER-STA.962+00

NEWELL BRIDGE

C.S. STA. 963+05.72

CURVE Nº 1
DELTA = 14°57'00"
DELTA 2 = 2°11'49" DELTA-1 = 12°45'11"
Dc 2 = 1°28'00" Dc 1 = 8°30'00"
R2 = 3,906.53' R1 = 674.07'
T2 = 186.09' T1 = 115.46'
L = 300'
C.S. STA. 963+05.72
S.C. STA. 966+05.72
P.I. COORDINATES
N 353,262.2703
E 2,530,872.5580

CURVE Nº 2
DELTA = 17°57'57"
Dc = 1°28'00"
R = 3,906.53'
T = 617.54'
L = 1,224.95'
S.C. STA. 966+05.72
P.C.C. STA. 978+30.67
P.I. COORDINATES
N 352,684.3335
E 2,531,430.9571

CURVE Nº 3
DELTA = 13°25'26"
Dc = 1°00'00
R = 5,729.58'
T = 674.27'
L = 1,342.38'
P.C.C. STA. 978+30.67
C.S. STA. 991+73.04
P.I. COORDINATES
N 352,077.4816
E 2,532,571.3615

N

BENCH MARKS

B.M. "H" R.R. SPIKE IN NORTH SIDE OF POWER POLE #1031A2/72 AT THE SOUTHEAST CORNER OF 2ND AND MARKET ST.
ELEV. 700.05

B.M. "G" 'X' CUT ON THE NORTH BONNET BOLT OF FIRE AT NORTHWEST CORNER OF THIRD ST. AND JACKSON.
ELEV. 741.25

B.M. "J" R.R. SPIKE IN THE WEST SIDE OF POWER POLE #1031A2/163 AT THE SOUTHWEST CORNER OF 4TH AND JACKSON ST.
ELEV. 753.56

B.M. "K" R.R. SPIKE IN WEST SIDE OF THE LIGHT POLE AT THE SOUTHEAST CORNER OF 4TH AND JEFFERSON ST.
ELEV. 748.91

B.M. "L" R.R. SPIKE IN THE SOUTH SIDE OF O.B.T. POLE #4201 AT THE NORTHWEST CORNER OF MONROE AND CHURCH ALLEY.
ELEV. 734.41

B.M. "M" BOX CUT ON NORTHWEST CORNER OF 3½x3½x3' HIGH CONCRETE BASE OF OHIO POWER CO. STEEL TOWER, 9 FT. SOUTH OF CONRAIL EAST BOUND R.R. TRACK AND APPROX. 50 FT. EAST OF NEWELL BRIDGE.
ELEV. 692.80

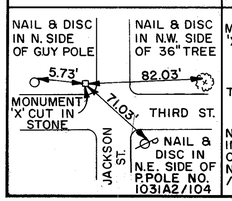
COORDINATES

PT.	NORTH	EAST
2	353,363.1866	2,530,816.4695
1709	352,500.7139	2,532,192.4039
1710	352,697.1064	2,531,720.7688
1712	352,769.2583	2,532,304.5994
1715	351,796.8415	2,532,993.1238
1727	352,468.0247	2,532,205.8735
1734	352,152.4613	2,532,074.0692
9727	353,059.7568	2,531,074.8839
9728	352,922.4440	2,531,217.2372
9739	352,310.3644	2,532,140.0220

WEST FOURTH STREET
STREET
ALLEY
MONROE
PERSIMMON
JEFFERSON
CHURCH
EAST
FIRST
(PENN CENTRAL RAILROAD)
CONRAIL
OHIO
RIVER
RAMP "L"
RAMP "N"
W. FIRST ST.
CENTER
PEACH
CROOK
PINK
JACKSON
MARKET
WASHINGTON
WEST THIRD STREET
SECOND STREET
S.C. STA. 966+05.72
P.I. 1
P.I. 2
P.I. 3
B.M."K"
B.M."J"
B.M."L"
B.M."M"
B.M."G"
B.M."H"
1000' TAPER 40:1
NOSE: STA. 972+00-43' LT. ℄ NO. 1 RAMP "L"
NOSE STA. 972+30.97-57' RT. ℄ NO. 1 STA. 972+34.84-16' LT. ℄ RAMP "N"
BRIDGE NO. 3560
STA. 974+49.32 ℄ NO. 1
STA. 51+02.02 ℄ JEFFERSON
STA. 979+92.69 ℄ RAMP "L"
STA. 50+00 ℄ JACKSON ST.
STA. 10+00 ℄ THIRD ST.
BEGIN WORK STA. 48+35
BEGIN WORK STA. 48+85
STA. 50+00 ℄ MARKET ST.
STA. 15+66.01 ℄ THIRD ST.
PCC. STA. 978+30.67
STA. 980+14.79 ℄ Nº 1
STA. 51+70.86 ℄ JACKSON ST.
℄ SURVEY ℄ NO. 1
STA. 985+81.07 ℄ NO. 1
STA. 51+78.16 ℄ JACKSON ST.
STA. 53+41.98 ℄ JACKSON ST.
STA. 10+00 ℄ SECOND ST.
STA. 980+69.07 ℄ RAMP "N"
STA. 53+59.98 ℄ JACKSON ST.
STA. 53+41.98 ℄ MARKET ST.
STA. 15+66.01 ℄ SECOND ST.
STA. 53+41.98 ℄ WASHINGTON
STA. 20+09.54 ℄ SECOND ST.
STA. 54+33.30 ℄ JACKSON ST.
STA. 50+00 ℄ W. FIRST ST.
PROP. RETAINING WALL Nº 3
END WORK STA. 54+61
END WORK STA. 58+51
END WORK STA. 54 27.5
MATCH LINE STA. 990+00
S 22°40'09" W
S 67°23'34" E

FOR DETOUR PLAN SEE SHEET 7

REFERENCE POINTS

1709


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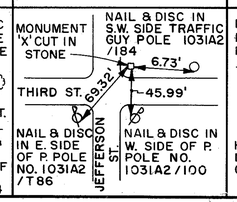

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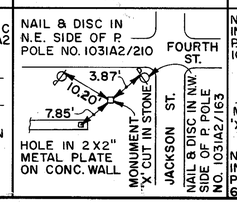

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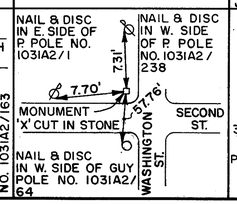
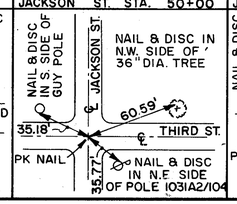
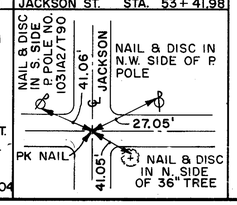


1727 THIRD ST. JACKSON ST. STA. 10+00 STA. 50+00


1734 SECOND ST. JACKSON ST. STA. 10+00 STA. 53+41.98


LEGEND

- ■ MONUMENT FOUND AND USED
- ▲ BENCH MARK
- ● P.K. NAIL SET
- P.I.
- (1709) POINT COORDINATE NUMBER
- CURVE NUMBER

SCALE
0 100 200 300

HORIZONTAL AND VERTICAL CONTROL PLAN

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL-30-35.29

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BENCH MARKS

B.M. "A" U.S.C. & G.S. C-11 'X' CUT IN BRONZE DISC SET IN CONCRETE, APPROX. 500 FT. EAST OF BROADWAY AND RIVER ST., 21 FT. SOUTH OF THE CENTERLINE OF THE SOUTH R.R. TRACK, AND 151 FT. WEST OF NORTHWEST CORNER OF COOK MOTOR LINE CO. BUILDING ON RIVER RD.
ELEV. 688.860

B.M. "B" BOX CUT ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF THE SIGN AND LIGHT POLE AT THE NORTHEAST CORNER OF THIRD ST. AND BROADWAY.
ELEV. 714.17

B.M. "C" TOP NORTHWEST CORNER OF CONCRETE RETAINING WALL AT THE SOUTHEAST CORNER OF E. FOURTH ST. AND WALNUT.
ELEV. 759.83

B.M. "D" 'X' CUT ON THE NORTHEAST ANCHOR BOLT OF LIGHT POLE BASE IN KENT STATE UNIVERSITY PARKING LOT, APPROX. 100 FT. EAST OF WALNUT ST. AND 50 FT. NORTH OF THIRD ST.
ELEV. 734.02

B.M. "E" BOX CUT IN CONCRETE SIDEWALK AT THE NORTHEAST CORNER OF THE MASON COLOR BLDG. AT THE SOUTHWEST CORNER OF UNION AND 2ND ST.
ELEV. 697.61

B.M. "F" R.R. SPIKE IN THE SOUTHWEST SIDE OF LIGHT POLE #1031A2/332 AT THE NORTH SIDE OF THIRD ST., APPROX. 50 FT. WEST OF WASHINGTON ST.
ELEV. 724.93

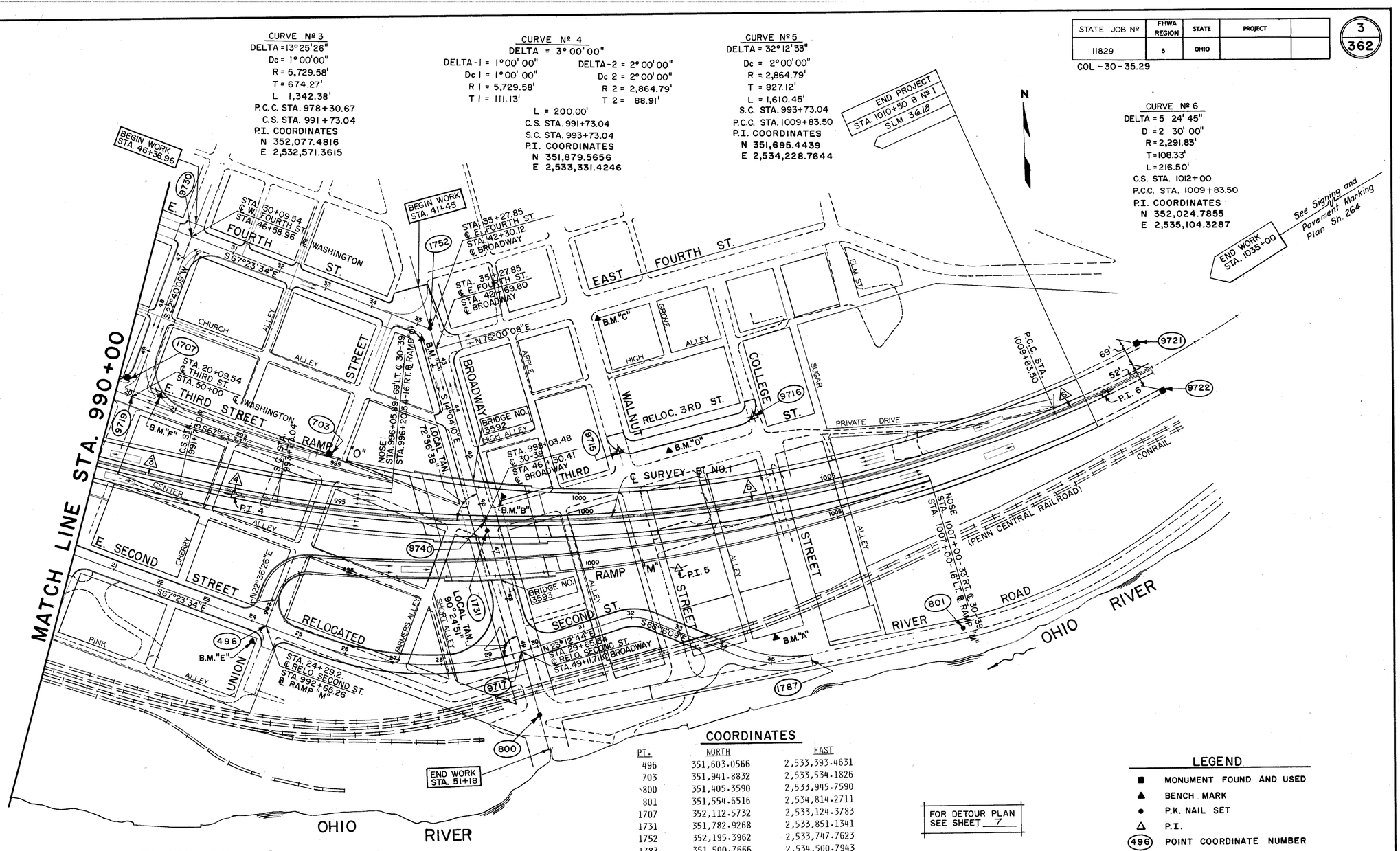
B.M. "I" R.R. SPIKE IN THE NORTHEAST SIDE OF POLE #1031A2/174 AT THE SOUTHWEST CORNER OF FOURTH & BROADWAY.
ELEV. 750.39

CURVE Nº 3
DELTA = 13°25'26"
Dc = 1°00'00"
R = 5,729.58'
T = 674.27'
L = 1,342.38'
P.C.C. STA. 978+30.67
C.S. STA. 991+73.04
P.I. COORDINATES
N 352,077.4816
E 2,532,571.3615

CURVE Nº 4
DELTA = 3°00'00"
DELTA-1 = 1°00'00" DELTA-2 = 2°00'00"
Dc 1 = 1°00'00" Dc 2 = 2°00'00"
R 1 = 5,729.58' R 2 = 2,864.79'
T 1 = 111.13' T 2 = 88.91'
L = 200.00'
C.S. STA. 991+73.04
S.C. STA. 993+73.04
P.I. COORDINATES
N 351,879.5656
E 2,533,331.4246

CURVE Nº 5
DELTA = 32°12'33"
Dc = 2°00'00"
R = 2,864.79'
T = 827.12'
L = 1,610.45'
S.C. STA. 993+73.04
P.C.C. STA. 1009+83.50
P.I. COORDINATES
N 351,695.4439
E 2,534,228.7644

CURVE Nº 6
DELTA = 5 24' 45"
D = 2 30' 00"
R = 2,291.83'
T = 108.33'
L = 216.50'
C.S. STA. 1012+00
P.C.C. STA. 1009+83.50
P.I. COORDINATES
N 352,024.7855
E 2,535,104.3287



COORDINATES

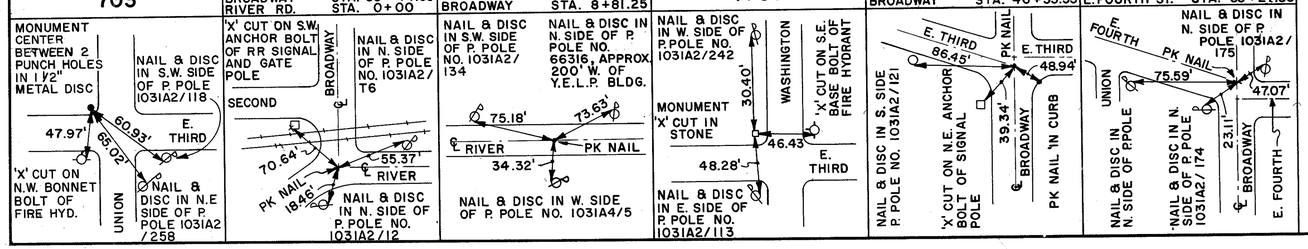
PT.	NORTH	EAST
496	351,603.0566	2,533,393.4631
703	351,941.8832	2,533,534.1826
800	351,405.3590	2,533,945.7590
801	351,554.6516	2,534,814.2711
1707	352,112.5732	2,533,124.3783
1731	351,782.9268	2,533,851.1341
1752	352,195.3962	2,533,747.7623
1787	351,500.7666	2,534,500.7943
9715	351,934.8326	2,534,127.5066
9716	352,003.6705	2,534,403.6458
9717	351,534.2567	2,533,913.4551
9719	352,079.9459	2,533,137.8436
9721	352,125.3151	2,535,175.3870
9722	352,025.5410	2,535,224.0745
9730	352,394.6379	2,533,269.2839
9740	351,807.1201	2,533,845.0709

FOR DETOUR PLAN SEE SHEET 7

LEGEND

- ■ MONUMENT FOUND AND USED
- ▲ BENCH MARK
- ● P.K. NAIL SET
- △ P.I.
- (496) POINT COORDINATE NUMBER
- (5) CURVE NUMBER

REFERENCE POINTS



SCALE
0 100 200 300

HORIZONTAL AND VERTICAL CONTROL PLAN

AA B/P

CALC. BY W.D. DATE 3-17-84
CHKD. BY G.W. DATE 11-21-84

OHIO | FHWA REGION 5 | 4 / 362

COL-30-35.29

MAINTENANCE OF TRAFFIC

GENERAL

1. CONTRACTOR'S MAINTENANCE RESPONSIBILITY
ON THIS PROJECT, THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF THE EXISTING PAVEMENT, PER ITEM 614, SHALL BE LIMITED TO THOSE PORTIONS OF THE EXISTING HIGHWAY LYING WITHIN THE PROPOSED WORK LIMITS. NECESSARY UPKEEP OF THE ADJOINING PAVEMENTS WHICH ARE USED FOR TRAFFIC MAINTENANCE BUT ARE OUTSIDE OF THE RIGHT-OF-WAY FOR THE PROPOSED HIGHWAY RELOCATION WILL BE PROVIDED BY OTHERS.

2. ITEM 614 - MAINTAINING TRAFFIC
THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF SPEC. 614. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, AND ITEM 615 TEMPORARY ROADS AND PAVEMENT. THE LIMITS AND DURATION OF USE OF TEMPORARY ROADWAYS SHALL BE HELD TO AN ABSOLUTE MINIMUM, AND IN ALL CASES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

3. ITEM 614.05 - PAYMENT FOR MAINTAINING TRAFFIC SHALL INCLUDE: LIGHTS, TEMPORARY CONTROL DEVICES, TEMPORARY GUARDRAIL; MAINTENANCE OF PORTIONS OF EXISTING HIGHWAY BEING USED, RESURFACING OF MARKET STREET BETWEEN THIRD STREET AND SECOND STREET, AND CONSTRUCTING, MAINTAINING AND REMOVING TEMPORARY ROADS REQUIRED FOR THIS PURPOSE, EXCEPT TEMPORARY ROADS SPECIFICALLY DESIGNATED UNDER 615. AGGREGATE, CALCIUM CHLORIDE, AND ASPHALT CONCRETE AUTHORIZED BY THE ENGINEER AND USED FOR MAINTAINING TRAFFIC WILL BE PAID FOR UNDER 410, 616 AND 404. PROVIDING LAW ENFORCEMENT OFFICERS WITH PATROL CAR WILL BE PAID FOR UNDER ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL CAR.

4. TEMPORARY ROADS AND PAVEMENTS
ON THIS PROJECT, THE TEMPORARY CLASS B- FLEXIBLE PAVEMENTS HAVE BEEN SHOWN AND DETAILED IN THE PLANS. THE ALIGNMENT AND TYPICAL SECTIONS ARE SHOWN ON SHEETS NO. 10 AND 16A . THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED IN CONSTRUCTING THE TEMPORARY CLASS B PAVEMENT:
ITEM 615 - TEMPORARY PAVEMENT, CLASS B- 5,432 SQ. YD.
ALTHOUGH ESTIMATES FOR TEMPORARY GUARDRAIL, TEMPORARY SIDEWALK, TEMPORARY EXCAVATION AND EMBANKMENT, TEMPORARY FENCE, TEMPORARY DRAINAGE FACILITIES HAVE BEEN SHOWN ON THE PLAN DETAILS, THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO, AND INCLUDED WITH, PAYMENT FOR ITEM 615 - TEMPORARY ROADS.

5. ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL CAR:
IN ADDITION TO THE REQUIREMENTS OF ITEM 614, A UNIFORMED SPECIAL DUTY LAW ENFORCEMENT OFFICER (L.E.O.) SHALL BE PROVIDED IN THE FOLLOWING SITUATIONS:
   1) DURING THE INITIAL FIRST DAY SET-UP PERIOD AND LAST DAY TEAR-DOWN PERIOD OF A LANE CLOSURE AND CHANNELIZATION OF DIRECTIONAL TRAFFIC INTO A REDUCED NUMBER OF LANES. A FLASHING ARROW PANEL IN ACCORDANCE WITH STANDARD DRAWING TC-35.10 SHALL REPLACE THE L.E.O. WITH PATROL CAR BETWEEN THE SET-UP AND TEAR-DOWN PERIODS. A DOWN-STREAM EXTENSION OF SUCH AN ARRANGEMENT SHALL NOT REQUIRE THE PRESENCE OF A L.E.O. WITH PATROL CAR.
   2) WHEN THE BEGINNING POINT OF A LANE CLOSURE IS SHIFTED SUBSTANTIALLY OR A NEW LANE CLOSURE IS INITIATED IN ANOTHER PART OF THE PROJECT.

THE ABOVE REQUIREMENTS DO NOT PRECLUDE THE CONTRACTOR'S USE OF L.E.O. FOR OTHER PURPOSES IN THE PROJECT AREA. HOWEVER, WHEN SUCH USAGE IS OF THE OPTION OF THE CONTRACTOR, PAYMENT FOR THE L.E.O. SERVICES INVOICED SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL CAR
RURAL = 30 HOURS AND MUNICIPAL = 70 HOURS = 100 HOURS.

6. ESTIMATED QUANTITIES FOR MAINTENANCE OF LOCAL TRAFFIC
LOCAL TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION OF SECOND STREET AND THIRD STREET.
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 404 BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	200	CU. YD.
ITEM 410 TRAFFIC COMPACTED SURFACE TYPE A AND B	2,000	CU. YD.
ITEM 410 TRAFFIC COMPACTED SURFACE TYPE C	1,000	CU. YD.
ITEM 616 CALCIUM CHLORIDE	50	TONS
ITEM 616 WATER	1,000 M	GAL.

SEPARATE PAYMENT SHALL BE MADE FOR ITEMS 404, 410, 615 AND 616 NOTED ABOVE.

SEQUENCE OF MAINTENANCE OF TRAFFIC AND CONSTRUCTION

MAINTENANCE OF TRAFFIC
THE PROPOSAL MINIMIZES 30/39 TRAFFIC THROUGH THE EAST LIVERPOOL CENTRAL BUSINESS DISTRICT AND ON CITY STREETS. THE STREETS USED FOR DETOURING; NAMELY, SECOND STREET AND THIRD STREET, ARE TO BE RECONSTRUCTED AS A PART OF THE PROJECT.
THE MAINTENTANCE OF TRAFFIC SHALL BE ACCOMPLISHED BY UTILIZING EXISTING PAVEMENT OR CONSTRUCTING NEW PAVEMENT ALONG THE 30/39 ALIGNMENT AND SECOND AND THIRD STREETS. MINIMAL TEMPORARY PAVEMENT WILL BE REQUIRED. THE DETOURING AND CONSTRUCTION WILL BE ACCOMPLISHED IN TWO PHASES. PHASE I WILL INCLUDE THE CONSTRUCTION NECESSARY TO PROVIDE THE PHASE II DETOUR. PHASE II CONSTRUCTION WILL COMPLETE THE PROJECT.
THE FOLLOWING SECTIONS OUTLINE THE PROPOSED MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE.

PHASE I DETOUR (PART A)
IN PREPARATION FOR PHASE I CONSTRUCTION, THE PHASE I DETOUR SHALL BE ESTABLISHED AS FOLLOWS:
1. TEMPORARY ROAD "A" SHALL BE CONSTRUCTED AS PER SHEETS 6 AND 10 . ADDITIONAL DETAILS ARE PROVIDED ON PLAN SHEETS 52,53,55 AND CROSS SECTION SHEETS 112 - 121 . THE TEMPORARY ROAD CONSTRUCTION CONSISTS OF WIDENING, WHERE POSSIBLE, THE EXISTING WEST CONNECTOR ROAD, AS SHOWN ON SHEET 6 , AND BUILDING A NEW TEMPORARY ROAD WHERE NECESSARY, TO MAINTAIN A 24 FOOT PAVEMENT AND 4 FOOT SHOULDERS. GUARDRAIL SHALL BE INSTALLED ON THE SOUTH SIDE IN ACCORDANCE WITH ITEM 615 USING NEW POSTS ON 12' - 6" CENTERS. THE EXISTING GUARDRAIL RIGHT OF STA. 963+50 TO STA. 971, MAY BE SALVAGED AND USED FOR PART OF THE LENGTH. NEW RAIL WILL BE REQUIRED FOR THE REMAINDER.

2. UPON COMPLETION OF TEMPORARY ROAD "A", EASTBOUND US 30 TRAFFIC WILL BE MERGED TO ONE LANE BETWEEN STA. 948+00 AND STA. 954+00. THE ONE LANE EASTBOUND TRAFFIC WILL CROSS OVER TO THE WESTBOUND LANES BETWEEN STA. 956+55 AND STA. 960+50 AS PER SHEET 9 . THE EXISTING 30/39 WESTBOUND LANES SHALL BECOME TWO WAY BETWEEN STA. 960+50 TO STA. 963+50, THE WESTERLY TERMINUS OF TEMPORARY ROAD "A". TEMPORARY ROAD "A" WILL CARRY THE DETOURED TRAFFIC AS A TWO WAY, TWO LANE STREET FROM STA. 963+50 TO ITS JUNCTION WITH THIRD STREET AS PER SHEET 10.
3. THE EASTBOUND ENTRANCE RAMP, RAMP B, FROM EIGHTH STREET (ROUTES 7 & 39) TO 30/39 SHALL BE CLOSED AS PER SHEET 9 . WHEN RAMP B IS CLOSED, EASTBOUND ROUTE 39 TRAFFIC SHALL BE DETOURED OVER EIGHTH STREET, TO JEFFERSON STREET, TO FOURTH STREET, TO MARKET STREET, TO THIRD AVENUE TO THE EAST CONNECTOR ROAD, AS PER SHEET NO. 7 .

PHASE I CONSTRUCTION - PART A
1. CONCURRENT WITH THE WORK ON TEMPORARY ROAD "A" AND OTHER WORK AS OUTLINED TO ESTABLISH THE PHASE I DETOUR - PART A, SECOND STREET CONSTRUCTION WORK SHALL PROCEED. FIRST PRIORITY SHALL BE FROM JACKSON STREET TO BROADWAY. CONSTRUCTION SHALL COMMENCE AT BROADWAY AND PROCEED TOWARD JACKSON STREET SO THAT SECOND STREET FROM BROADWAY TO MARKET STREET CAN BE COMPLETED AT THE EARLIEST POSSIBLE DATE.
TEMPORARY INTERSECTIONS AT MARKET STREET AND SECOND STREET AND AT RELOCATED SECOND STREET AND BROADWAY SHALL BE CONSTRUCTED AS SHOWN ON SHEET 11 . DURING CONSTRUCTION, SECOND STREET SHALL BE CLOSED TO THROUGH TRAFFIC WITH LOCAL TRAFFIC MAINTAINED IN ACCORDANCE WITH ITEM 614. THE SEWERS AND NORTH HALF OF THE PAVEMENT SHALL BE CONSTRUCTED FIRST.

2. ALL STREETS AND ALLEYS (EXCEPT MARKET AND BROADWAY) BETWEEN THE SOUTH SIDE OF THIRD STREET AND THE NORTH SIDE OF SECOND STREET, SHALL BE CLOSED.
3. ACCESS TO RIVER ROAD SHALL BE MAINTAINED ON BROADWAY UNTIL RECONSTRUCTED SECOND STREET FROM MARKET STREET TO BROADWAY IS COMPLETE AND OPEN TO TRAFFIC. BROADWAY TRAFFIC SHALL BE DETOURED OVER THIRD STREET TO MARKET STREET. BROADWAY BETWEEN THIRD AND SECOND STREETS SHALL BE CLOSED AND RECONSTRUCTED.
4. RELOCATED SECOND STREET BETWEEN BROADWAY AND RIVER ROAD MAY BE CONSTRUCTED, BUT ACCESS TO RIVER ROAD MUST BE MAINTAINED.
5. UPON COMPLETION OF THE CONSTRUCTION OF TEMPORARY ROAD "A", THE EASTBOUND LANES OF THE MAINLINE PAVEMENT SHALL BE CONSTRUCTED FROM THE EXISTING PAVMENT (STA. 963+50) TO THE NOSE OF RAMP N (STA. 972+30.97) AS SHOWN ON SHEET 10.

PHASE I DETOUR - PART B
1. PRIOR TO PHASE I - PART B CONSTRUCTION, THE EAST CONNECTOR ROAD MUST BE MODIFIED AS PER SHEETS 12 AND 16 . ADDITIONAL DETAILS ARE SHOWN ON PLAN SHEETS 88,92,94 AND CROSS SECTION SHEETS 152 - 157 . EASTBOUND TRAFFIC WILL MERGE FROM TWO TO ONE LANE BETWEEN EAST CONNECTOR ROAD STA. 29+50 AND STA. 36+00 AND CROSS OVER TO THE WESTBOUND LANES. FROM STA. 36+00 FORWARD, THE EXISTING WESTBOUND LANES OF THE EAST CONNECTOR ROAD WILL OPERATE TWO WAY AS PER SHEET 17.
2. ALL WESTBOUND 30/39 TRAFFIC WILL MERGE TO ONE OPERATING LANE WEST OF THE 30/39 - RIVER BRIDGE INTERCHANGE AS PER SHEETS 7 AND 12.
3. AT THE EASTERN TERMINUS OF THE TWO WAY EAST CONNECTOR ROAD, A CROSS OVER, AS DETAILED ON SHEET 16 SHALL BE PROVIDED, *and Temporary Reincurvity of Lighting as shown on Sheet 12 Shall be performed. The Phase I Detour is now complete.*
4. THIRD STREET, WHILE SERVING AS A PART OF THE PHASE I DETOUR, WILL OPERATE AS A THREE LANE STREET, TWO LANES EASTBOUND AND ONE LANE WESTBOUND, AS PER SHEETS 10, 11 & 12. THE CENTER LANE SERVES AS A LEFT TURN LANE TO INTERSECTING STREETS.
5. THE EXISTING EAST CONNECTOR ROAD TO THE MAINLINE AT STA. 1010+50 COMPLETES THE PHASE I - PART A DETOUR.

6. RAMP N SHALL BE CONSTRUCTED FROM THE NOSE (RAMP N STA. 972+34.84) TO THE INTERSECTION WITH JACKSON STREET, AS PER SHEET 10. CONSTRUCTION WILL INCLUDE NECESSARY DRAINAGE ELEMENTS.
7. UPON COMPLETION OF THE GRADING OF BROADWAY BETWEEN THIRD AND SECOND STREET, CONSTRUCTION OF THE RAMP M BRIDGE OVER BROADWAY SHALL PROCEED. RAMP M CONSTRUCTION SHALL PROCEED WHEN RECONSTRUCTED SECOND STREET FROM MARKET TO BROADWAY IS COMPLETE (PHASE I STEP 1). RAMP M CONSTRUCTION FROM SECOND STREET TO THE NOSE, STA. 1004+00 IS SHOWN ON SHEETS 11 AND 12.
8. TEMPORARY PAVEMENT SHALL BE CONSTRUCTED BETWEEN RAMP M AND RELOCATED SECOND STREET AS SHOWN ON SHEET 11 AND DETAILED ON SHEET 16A. THIS PAVEMENT WILL BE USED TO MAKE A TEMPORARY INTERSECTION BETWEEN RAMP M AND SECOND STREET FOR THE PHASE II DETOUR.

PHASE I CONSTRUCTION - PART B
1. UPON THE COMPLETION OF THE PHASE I DETOUR - PART B, AS SET FORTH IN THE PRECEEDING SECTION, THE MAINLINE PAVEMENT AND THE RAMP M ACCELERATION LANE SHALL BE CONSTRUCTED FROM THE RAMP NOSE (STA. 1004+00) TO THE EXISTING PAVEMENT (STA. 1010+50) AS PER SHEET 12 THIS COMPLETES THE PHASE I CONSTRUCTION AND THE PROJECT MOVES INTO PHASE II FOR COMPLETION.
THE PLANS SHOW WHAT ADDITIONAL AUXILLARY CONSTRUCTION, SUCH AS DRAINAGE AND OTHER UTILITIES, IS NECESSARY IN COMPLETING PHASE I WORK.

PHASE II DETOUR
1. UNDER PHASE II CONSTRUCTION, ROUTE 30 AND WESTBOUND ROUTE 39 TRAFFIC SHALL BE DETOURED OVER THE EASTBOUND LANES OF ROUTE 30, RAMP N, SECOND STREET, THE TEMPORARY PAVEMENT (SHEET 11), RAMP M, AND THE EASTBOUND LANES OF THE MAINLINE EAST OF STA. 1004+00.
2. EASTBOUND SR 39 TRAFFIC WILL BE DETOURED OVER THE PHASE I ROUTE AS SET FORTH IN ITEM 3 OF PHASE I DETOUR - PART A, WITH THE EXCEPTION THAT SECOND STREET WILL REPLACE THIRD STREET ON THE DETOUR ROUTE. WHEN MARKET STREET IS CLOSED, JACKSON STREET WILL REPLACE MARKET STREET.
3. THE BARRICADE ON BROADWAY SHALL BE RELOCATED TO THE NORTH SIDE OF THIRD STREET AS SHOWN ON SHEET 12. BROADWAY TRAFFIC SHALL BE DETOURED OVER FOURTH STREET TO MARKET STREET.
4. EASTBOUND ROUTE 30 TRAFFIC WILL CONTINUE TO BE MERGED INTO ONE LANE AS OUTLINED IN PHASE I, AS PER SHEET 9 . THE PHASE I CROSS OVER BETWEEN STA. 956+46.90 AND 966+05.72 SHALL BE REVISED AS PER SHEETS 13 & 14. TO SWITCH WESTBOUND ROUTE 30 TRAFFIC FROM THE EASTBOUND LANES OF PROPOSED U.S. 30 TO THE EXISTING WESTBOUND LANES.
5. THE EASTBOUND LANES SHALL OPERATE TWO WAY, AS PER SHEET 14, FROM STA. 956+05.72 TO THE NOSE OF RAMP N, STA. 972+30.97.
6. RAMP N SHALL OPERATE TWO WAY, AS SHOWN ON SHEET 14, FROM THE RAMP NOSE TO JACKSON STREET.
7. RECONSTRUCTED SECOND STREET SHALL THEN CARRY THE DETOURED TRAFFIC FROM JACKSON STREET TO THE INTERSECTION OF RAMP M, AS SHOWN ON SHEETS 11 AND 13 TEMPORARY PAVEMENT WAS PLACED UNDER PHASE I AT THE INTERSECTION OF MARKET STREET TO MAINTAIN ACCESS FROM THE DETOUR TO THE EAST LIVERPOOL CENTRAL BUSINESS DISTRICT. TEMPORARY PAVEMENT WAS ALSO PLACED IN PHASE I AT THE INTERSECTION OF RAMP M AND SECOND STREET IN ORDER TO MAINTAIN ACCESS FROM THE DETOUR TO RIVER ROAD.
8. RAMP M SHALL OPERATE TWO WAY FROM SECOND STREET TO THE NOSE AT STA. 1004+00, AS SHOWN ON SHEET 14. THE EASTBOUND LANES OF THE MAINLINE SHALL OPERATE TWO WAY FROM STA. 1004+00 TO THE CROSS OVER AT STA. 1010+50.
9. THE WESTBOUND 30/39 MERGE DETAILED IN THE PHASE I DETOUR - PART B, ITEM 3 SHALL BE MAINTAINED TO COMPLETE THE PHASE II DETOUR. IT IS NECESSARY TO REVISE THE PHASE I CROSS OVER TO SWITCH WESTBOUND TRAFFIC INTO THE EASTBOUND LANES. THIS SHALL BE DONE BETWEEN STA. 1010+50 AND 1014+50 AS SHOWN ON SHEETS 14 AND 15 . THE EAST CONNECTOR ROAD SHALL BE CLOSED & TEMPORARY LIGHTING REMOVED. THE PHASE II DETOUR IS COMPLETE.

PHASE II CONSTRUCTION
1. CONSTRUCTION OF BROADWAY AND THE JACKSON STREET BRIDGE SHALL BE THE FIRST PRIORITY OF PHASE II.
2. WHEN BROADWAY AND/OR JACKSON STREET ARE OPENED TO TRAFFIC, MARKET STREET SHALL BE CLOSED BETWEEN THIRD STREET AND SECOND STREET. ALL INTERSECTING STREETS WITH THIRD STREET, EXCEPT MARKET STREET AND JACKSON, SHALL BE CLOSED NORTH OF THE CONSTRUCTION LIMITS. MARKET STREET WILL REMAIN OPEN FOR LOCAL TRAFFIC. PART WIDTH CONSTRUCTION SHALL BE USED BETWEEN JACKSON STREET AND MARKET STREET IN ORDER TO MAINTAIN LOCAL TRAFFIC IN ACCORDANCE WITH SPECIFICATION 614. CONCURRENT WITH THE THIRD STREET CONSTRUCTION, THE REMAINING CONSTRUCTION OF RAMPS L AND O AND THE MAINLINE CAN BE COMPLETED.

GENERAL NOTES
PROJECT COL 30 35.29
MAINTENANCE OF TRAFFIC

QUANTITIES			
Calc.	J.C.N.	Chk'd.	JNM
Date	12-9-89	Date	12-11-89

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

TEMPORARY PAVEMENT MARKING

PHASE	614 Temporary Class I										621
	Edge Lines		Lane Lines	Center Lines	Channelizing Lines	Transverse Lines	Stop Lines	Lane Arrows	Word "ONLY" On Pavement 72"	Crosswalk Lines	Removal Of Pavement Marking
	Yellow	White									
	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Each	Each	Lin. Ft.	Lin. Ft.
Phase I	2094	7227	3536	7644	878	1377	323	4	4	452	
Phase II	2338	10,898	1115	4224	395		15				4801
TOTALS	4432	18,125	4651	11,868	1273	1377	338	4	4	452	4801
	4.27 Miles		0.88 Mi.	2.25 Mi.							

Quantities Carried To Sheet No. 253

ITEM 802 ~ BARRIER REFLECTOR

STATION From	STATION To	LANE	LENGTH	SPACING	Barrier Reflector Type A Yellow	Barrier Reflector Type A White	Barrier Reflector Type B Yellow	Barrier Reflector Type B White	COMMENTS
			Lin. Ft.	Ft.	Each	Each	Each	Each	
956+57	1010+50	EASTBOUND	5393	100			55		Center Line Barrier
963+75	966+72		297	100				4	US 30 Retaining Wall
966+72	969+82		610	100		7			US 30 Guardrail
987+50	997+09		959	100		11			US 30 Guardrail
997+09	999+08		199	100				3	US 30 Bridge Parapet
995+25	997+25		200	100		3			Ramp 'M' Guardrail Rt.
995+63	997+17		154	100	3				Ramp 'M' Guardrail Lt.
999+08	1002+33		325	100		4			US 30 Guardrail
997+25	999+00		175	100				3	Ramp 'M' Bridge Parapet Rt.
997+17	998+93		176	100			3		Ramp 'M' Bridge Parapet Lt.
999+00	1004+69		569	100		7			Ramp 'M' Guardrail Rt.
1004+69	1010+50		581	100				7	Existing Retaining Wall
956+57	1010+50	WESTBOUND	5393	100			55		Center Line Barrier
962+75	964+07		132	100		2			US 30 Guardrail
976+48	979+25		277	100	4				US 30 Guardrail
995+12	996+90		178	100		3			Ramp 'O' Guardrail Lt.
996+90	1001+53		463	100				6	Ramp 'O' Parapet
1001+53	1004+34		281	100		4			US 30 Guardrail
TOTALS					7	41	113	23	
					48		136		

Quantities Carried To Sheet No, 253

AA B/P

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829(0)	5	OHIO	U-457	

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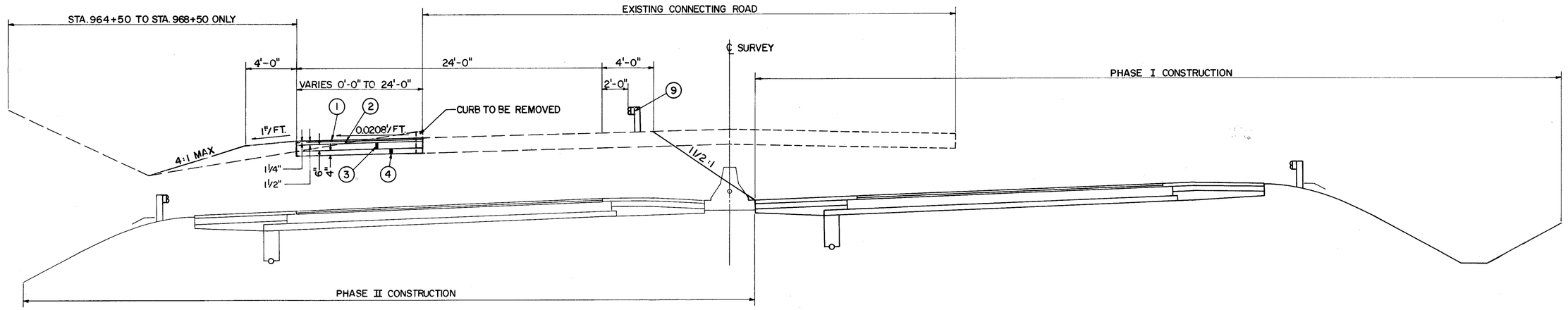
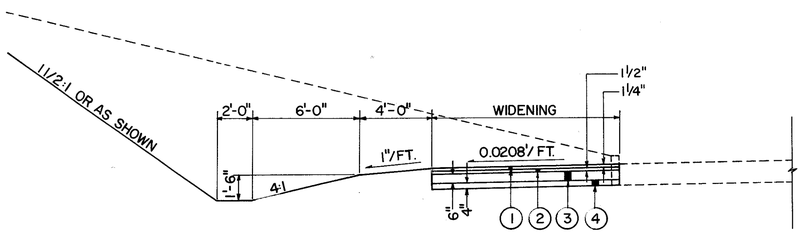
COL-30-35.29



TEMPORARY ROAD SECTION – CLASS B PAVEMENT

STA. 963+50 TO STA. 972+00



CUT DITCH SECTION

STA. 968+50 TO STA. 971+00

1	1 1/4"	404	ASPHALT CONCRETE
2	1 1/2"	402	ASPHALT CONCRETE
3	6"	301	BITUMINOUS AGGREGATE BASE
4	4"	304	AGGREGATE BASE

SCALE 1/4" = 1'-0"

4 0 1 2 4

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

38720

STATE JOB Nº	FED. RD.	STATE	PROJECT	
11829 (0)	5	OHIO		

COL 30 - 35.29

DETAIL A

TEMPORARY ROADWAY PHASE I CONSTRUCTION SEE SHEETS - II

EAST CONNECTOR ROAD RECONSTRUCTED FOR PHASE I CONS. SEE SHT. 12

END PROJECT EXISTING EXPRESSWAY COL 30 - 35.29 STA 1010+50

SEE DETAIL A THIS SHEET

NOT TO SCALE
SIGNAGE ONLY

PHASE I TRAFFIC CONTROL
LEAD-IN SIGNING - EASTERN TERMINUS

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

COL-30-35.29

S.R. 7 & S.R. 39

STA. 168+00

5' SIDEWALK

RAMP D

STA. 167+35 DO NOT ENTER

STA. 168+65 267 131

STA. 164+25 ERECT NEW SIGN

DETOUR AHEAD

OM-127-48

STA. 9+89 STOP

STA. 9+89 STOP

STA. 8+90 WRONG WAY

RAMP D

STA. 172+12 SOUTH 7 WEST 39

STA. 173+40 STOP

S.R. 267 LISBON RD.

STA. 173+60 RIGHT KEEP

PT. STA. 3+28.95

CONC. SIDEWALK

STA. 174+25 YIELD

STA. 174+69 267 39

STA. 174+30 267 39

STA. 173+98 RIGHT KEEP

STA. 173+70 REMOVE EFFECT ON EXISTING SUPPORT

M-25-24

ERECT ON EXISTING SUPPORT

M-24-24

REMOVE 39

REMOVE 7 39

YIELD

STA. 0+65

NO TURN ON RED 7 to 9 A.M. 2 to 4 P.M.

STA. 174+26

STA. 173+50 WEST 30 EAST 267 39

A ERECT ON EXISTING SIGN — OVERLAY 20' x 20'

B ERECT ON EXISTING SUPPORT — REMOVE — M-26-24

C ERECT ON EXISTING SUPPORT — DETOUR — OM-23

BLANK OVERLAY ERECT ON EXISTING SIGNS

LISBON 17 YOUNGSTOWN 44 PITTSBURGH 40 K.S.U. Campus

STA. 168+33

5' SIDEWALK

STA. 170+50 ERECT NEW SIGNS

DETOUR 39 M-2-30 OM-23 M-26-24

REMOVE 39

STA. 170+50

5' SIDEWALK

STA. 169+89 STOP

STA. 169+89 STOP

STA. 168+00

S.R. 7 & S.R. 39

169 170 171 172 173 174 175 176 177 178 179 180 181

5' SIDEWALK

STA. 167+35 DO NOT ENTER

RAMP D

STA. 168+65 267 131

5' SIDEWALK

5' SIDEWALK

STA. 164+25 ERECT NEW SIGN

DETOUR AHEAD

OM-127-48

163 164 165 166 167

STA. 168+00

STA. 947+98 LIMIT

STA. 947+63.15 P.C. 0+00 RAMP C

RAMP C

STA. 176+85 267 LISBON RD. SOUTH 7 WEST 39 EAST 39 30

COVER

STA. 179+00 267 LCT

5' SIDEWALK

WEST EIGHTH ST.

P.C.C. STA. 4+78.50 BK. P.C.C. STA. 4+64.81 AH.

STA. 5+59 STOP AHEAD

WRONG WAY

STA. 5+93 WRONG WAY

STA. 8+25 STOP DO NOT ENTER ONE WAY

STA. 8+27 STOP DO NOT ENTER

P.T. STA. 9+60.74

STA. 174+69 267 39

STA. 174+30 267 39

STA. 173+98 RIGHT KEEP

U.S. 30 & S.R. II

S.R. 7

STA. 175+28 NEXT RIGHT WEST 30 7 11 NORTH

STA. 177+83 LISBON 17 YOUNGSTOWN 44

STA. 179+00 ERECT NEW SIGNS

M-26-24

M-1-30

EAST 30 M-39-24

EAST 39 M-2-30

DETOUR 39 OM-23

STA. 180+05 WEST 30 7 11 NORTH

STA. 181+00 EXIT

RAIL ROAD

STA. 181+25 8th STREET RAMP A

60.00' REDESTRAIN OVERPASS

8' SIDEWALK

P.C.C. STA. 4+24.79 BK. P.C.C. STA. 4+18.11 AH.

RAMP A

STA. 951+07.45 P.C. 0+00 RAMP A

RAMP B

T.S. STA. 952+46

NOTE:

1. ALL EXISTING SIGNS SHALL REMAIN EXCEPT AS NOTED.
2. ALL SIGNS ERECTED SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION OF PROJECT COL-30-35.29 AND REMOVAL OF DETOURS. EXISTING SIGNAGE REMOVED FOR DETOUR SIGNAGE WILL BE REPLACED.

U.S. 30 & S.R. II INTERCHANGE WITH S.R. 7

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829(0)	5	OHIO	U-457	

COL-30-35.29

OC-8

END CONSTRUCTION

STA. 940+00 ERECT NEW SIGN DS-92

RAMP C

℄ EIGHTH STREET

N

RAMP A

STA. 952+00 NO WORK

STA. 952+46.50 P.S.

DECEL LANE

SOUTH WEST 39 7 Wellsville

WEST NORTH 11 7 30

STA. 953+00 NO WORK

STA. 945+00

946 947 948 949 950 951 952 953 954

STA. 949+40.65 ℄ U.S.30
STA. 175+89.89 ℄ S.R.7

4" SOLID YELLOW EDGE LINE

23 DRUMS @ 25' CTRS. SEE DETAIL B

STA. 950+00 FLASHING ARROW PANEL SEE DETAIL B

STA. 952+00 ERECT NEW SIGN

4" SOLID WHITE EDGE LINE

12'

STA. 955+00

NOTE "A"
UPON REMOVAL OF DETOUR, REMOVE TEMPORARY PAVEMENT STA. 956+25 TO STA. 962+00. CONSTRUCT CONCRETE BARRIER MEDIAN AND SHOULDER PAVEMENT. SEE SHEET 50.

NOTE "B"
UPON REMOVAL OF DETOUR, CONSTRUCT I-3 INLET AS PER PLAN SEE SHEET 50.

RAMP D

BEGIN DETOUR TEMPORARY STRIPING STA. 948+00 S.B. LANES

ERECT NEW SIGN

OW-138-36

10' MIN.

BEGIN 8°15' CURVE EDGE LINE PHASE I

RAMP B

ROAD CONSTRUCTION AHEAD OW-128-48
2 MILES OW-145A-30
STA. 838+00 ±
BOTH SIDES - S.B. LANE
ERECT NEW SIGNS

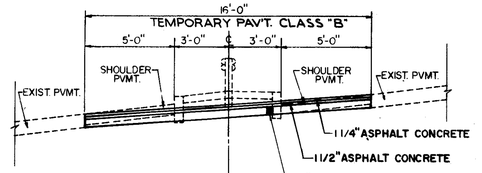
ROAD CONSTRUCTION AHEAD OW-128-48
1 MILE OW-145A-30
STA. 893+00 ±
BOTH SIDES - S.B. LANES
ERECT NEW SIGNS

LEFT LANE CLOSED AHEAD OW-123-48
1500 FT OW-145-30
STA. 933+00
BOTH SIDES - S.B. LANES
ERECT NEW SIGNS

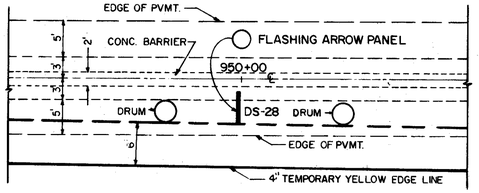
LEFT LANE CLOSED AHEAD OW-123-48
35 MPH OW-143-24
STA. 939+00
BOTH SIDE S.B. LANES
ERECT NEW SIGNS BEHIND GUARD RAIL

W-60-48
STA. 944+00
LEFT SIDE - S.B. LANES
ERECT NEW SIGN

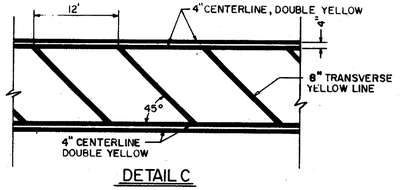
TYPE III BARRICADE (FIXED) 30' LG.
2 FLASHING YELLOW LIGHTS
R-75 ERECTED AT CENTER OF BARRICADE



DETAIL A
MEDIAN & PAVEMENT REMOVAL & TEMPORARY PAVEMENT
SCALE 1/4" = 1'-0"



DETAIL B
SCALE 1" = 10'-0"



DETAIL C
SCALE 1" = 10'-0"

STA. 956+50 ERECT NEW SIGNS RELOCATE FOR PHASE II SEE SHEET 14

35 MPH OW-143-24

TWO WAY TRAFFIC OW-7-36

OW-7-48

STA. 957+00 NO WORK

REDUCE SPEED 35 AHEAD

7 DRUMS @ 25' CTRS.

4" SOLID YELLOW EDGE LINE

STA. 7+00 NO WORK

REDUCE SPEED 35 AHEAD

STA. 8+85 NO WORK

YIELD

21 DRUMS @ 25' CTRS.

SEE DETAIL C

Dc = 8°15' ±

REMOVE INLET & PLUG PIPE

ERECT NEW SIGNS (RELOCATE II) FOR PHASE II SEE SHEET 14

35 MPH OW-143-24

OW-7-48

STA. 960+00 NO WORK

SOUTH WEST 39 7 Wellsville NEXT EXIT

NORTH WEST 11 7 30

END PSMS CURVE STA. 960+80

END PAVEMENT PAVING STA. 962+30

MATCH TO SHEET No 10

STA. 963+50

ACCEL LANE

NEWELL BRIDGE

DOUBLE 4" SOLID YELLOW ℄ - 6" APART

4" SOLID WHITE EDGE LINE

END DETOUR TEMPORARY STRIPING S.B. LANES STA. 956+85

CONC. RETAINING WALL

REMOVE MEDIAN & PVMT. SEE DETAIL A

TYPE 6 CURB

CROSS OVER AREA

PHASE I TRAFFIC CONTROL
PHASE I CONSTRUCTION LIMITS
STA. 945+00 TO STA. 963+50

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TEMPORARY PAVEMENT ITEM 615-CLASS B FLEXIBLE PAVEMENT

PAVEMENT REMOVAL

MATCH TO SHEET Nº 9

STA. 963+50

BEGIN PAVEMENT STA. 963+50

REMOVE CURB N. SIDE TO STA. 973+00

R-123-36

STA. 963+80

REMOVE SIGNS & SUPPORTS

S.C. STA. 966+05.72

P.C.C. END 5°00' CURVE
BEGIN 2°30' CURVE

5°00'

2°30'

℄ 30/39

MONROE ST.

CHURCH ALLEY

PT. END 2°30' CURVE

TEMPORARY ROAD A
SEE SHT. 52-55

ADJUST M.H. TO GRADE

TYPE III BARRICADE 20' LG. R-75 AT CENTER

PERSIMMON ST.

P.C. STA. 971+50
BEGIN 7°30' CURVE

7°30'

THIRD ST.

P.T.

OW-7I-48

OW-I43-21

35 M.P.H.

STA. 969+50
ERECT NEW SIGNS

STA. 973+00

PHASE I CONSTRUCTION

RETAINING WALL Nº 1
SEE SHEET Nº 269

DOUBLE 4" SOLID YELLOW ℄ 6" APART

WEST CONNECTOR ROAD

4" SOLID WHITE EDGE LINE

RAMP N

STA. 963+95
NO WORK
PHASE I NO WORK
PHASE II REMOVE

SPEED LIMIT 35

STA. 966+00
REMOVE SIGN AND SUPPORT

DEGREE OF CURVE APPROXIMATE-
SET WIDENING BY OFF SETS. FOR
CROSS-SECTIONS SEE SHEETS 112-121

BEGIN RAMP N STA. 968+00
P.C. 46 RT.

STA 968+32
RELOCATE SIGN ON NEW SUPPORT

RELOCATE EXISTING GUARD RAIL ON NEW POSTS STA. 963+50 TO STA. 971+25

NEW GUARDRAIL & POSTS STA 971+25 TO STA 972+28

DOUBLE 4" SOLID YELLOW ℄ 6" APART

NOSE STA. 972+30.97
57' RT. ℄ 30/39
STA. 972+34.84
16' LT. ℄ RAMP N

STA 970+09
RELOCATE SIGNS ON NEW SUPPORTS

PHASE I NO WORK
PHASE II REMOVE

PHASE I SIGNAL REMAINS
PHASE II SIGNAL REMOVED

4" LANE LINE, WHITE

EAST ALLEY

24" SOLID WHITE STOP BAR

HOSPITAL

TYPE 3 BARRICADE 60'

TYPE 3 BARRICADE 20'

TYPE 3 BARRICADE - 60'

ROAD CLOSED R-75

PHASE I NO WORK
PHASE II REMOVE

STA. 973+00

JEFFERSON ST.

℄ JACKSON ST.

℄ 30/39

P.T. STA. 973+48

P.C. STA. 974+52.54

P.T. STA. 976+10.04

150' TAPER

STA. 978+00

P.C. STA. 978+58.07

℄ RAMP N STA. 980+69.07
℄ JACKSON STA. 53+59.98

RAMP N

ACCESS ROAD

PHASE I CONSTRUCTION

END APPROACH SLAB AND PHASE I CONSTRUCTION STA. 52+84.12

SECOND ST.

P.T. STA. 980+23.07

STA. 982+50
MATCH TO SHEET Nº 11

NOTE:
SEE SHEETS 50-65
FOR DRAINAGE DETAILS

PHASE I TRAFFIC CONTROL
PHASE I CONSTRUCTION LIMITS
STA. 963+50 TO STA. 982+50

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PAVEMENT MARKING FOR DETOUR PHASE I CONSTRUCTION

STA. 982+50 MATCH TO SHEET Nº 10

STA. 995+00 MATCH TO SHEET Nº 12

PEACH ALLEY

SPEED LIMIT 35 R-10-24 STA. 14+00 ERECT NEW SIGN

PHASE I NO WORK PHASE II REMOVE

12" CROSS WALK LINES AS SHOWN

MARKET ST. SIGNALS
PHASE I NO WORK
PHASE II REMOVE FOR STORAGE

PHASE II - ERECT TYPE III BARRICADE 60'LG. CLOSING MARKET ST. TO THRU TRAFFIC. LOCAL TRAFFIC MAINTAINED R-76-C AT CENTER

CROOK ALLEY

THIRD ST.

TYPE III BARRICADE 20'LG. R-75 AT CENTER

24" SOLID WHITE STOP BAR

TYPE III BARRICADE 20'LG. R-75 AT CENTER

PHASE I NO WORK PHASE II REMOVE

4" LANE LINE

DOUBLE 4" SOLID YELLOW ℄ 6" APART

TYPE III BARRICADE 60'LG R-75 AT CENTER

CHURCH ALLEY

TYPE III BARRICADE 20'LG. R-75 AT CENTER

TYPE III BARRICADE 40'LG., R-75 AT CENTER

UNION ST.

C.S. STA. 994+27.04

C.S. STA. 991+73.04

WASHINGTON ST.

SPEED LIMIT 35 R-10-24 STA. 14+00 ERECT NEW SIGN

RELOCATE SIGNS TO RELOC. SECOND ST. PHASE II

STA. 15+34 ERECT NEW SIGNS PHASE I

M-25-21 | M-24-21
M-2-24 | 39 | M-24-21
M-1-24 | 30 | M-2-24
DETOUR | OM-23 | 7 | TO | M-8-24

MARKET ST.

REMOVE D3-47

BUSINESS DISTRICT

DOUBLE 4" SOLID YELLOW ℄ 6" APART PHASE II ONLY

CENTER LANE

4" LANE LINE PHASE II ONLY

M-40-24 | WEST | EAST | M-39-24
M-1-24 | 30 | 30 | M-1-24
M-2-24 | 39 | M-2-24
M-24-21 | M-24-21

STA. 23+70 ERECT NEW SIGNS

OC-418-30

DO NOT ENTER

R-1-30 ERECT NEW SIGN

STOP

ONE WAY

THROUGH TRAFFIC KEEP LEFT

R-43L-36

R-36L-30

4" SOLID WHITE EDGE LINE

FOR TEMPORARY PAVEMENT DETAIL SEE SHEET Nº 16A

STA. 24+28.20 ℄ RELOC. SECOND ST.

DESIGN TYPE 2 CURB PHASE I CONSTRUCTION

STA. 24+28.20 ℄ RELOC. SECOND ST.

STOP R-1-30

SEE DETAIL C SHEET Nº 9

STA. 25+00

24" WHITE STOP BAR

R-41B-30 STA. 23+95 ERECT NEW SIGN ON BARREL

DO NOT ENTER

R-41B-30 STA. 24+05 ERECT NEW SIGN

30:1 TAPER

N-29-24 | N-15-24 STA. 15+15 ERECT NEW SIGNS

RESURFACE: 1 1/2" 402-ASPH. CONC. 1 1/4" 404-ASPH. CONC.

R-31B (30" X 30") STA. 16+25 ERECT NEW SIGN

8" SOLID WHITE CHANNELIZING LINE

50'

4" LANE LINE

DETOUR | OM-23
30 | M-1-24
39 | M-2-24
KEEP LEFT | OC-39L-30

STA. 21+80 ERECT NEW SIGNS

STA. 20+50 END NORTH CURB PHASE I CONSTRUCTION

PC STA. 20+75.15 20' LT ℄ RELOC SECOND ST.

RELOC. SECOND ST.

PHASE I CONSTRUCTION

DOUBLE 4" SOLID YELLOW ℄ 6" APART

SEE DETAIL C SHEET Nº ___

8" SOLID WHITE CHANNELIZING LINE

24" SOLID WHITE STOP BAR

TEMPORARY TRAFFIC SIGNAL PHASE II ONLY

SECOND ST. & RAMP M DRAINAGE TO BE CONSTRUCTED IN PHASE I, NOT SHOWN ON THESE PLANS.

SEE DETAIL C SHEET Nº 9

4" SOLID WHITE EDGE LINE

STA. 14+00 ERECT NEW SIGNS
M-26-21 | M-2-24 | 39 | M-1-24 | 30 | DETOUR | OM-23

STA. 15+00 ERECT NEW SIGN
R-31A (30" X 30")

STA. 16+00 ERECT NEW SIGNS
N-15-24 | N-29-24

STA. 17+56 ERECT NEW SIGNS
M-27-21 | M-2-24 | 39 | M-1-24 | 30 | DETOUR | OM-23

BROADWAY

STA. 21+00 ERECT NEW SIGNS
M-28-21 | M-2-24 | 39 | M-1-24 | 30 | DETOUR | OM-23

R-43R-36 | R-41B-30 | DO NOT ENTER | ONE WAY | R-1 STOP | THROUGH TRAFFIC KEEP LEFT | R-36L-30 ERECT NEW SIGN

STA. 23+44 ERECT NEW SIGN

STOP R-1-30

TEMPORARY PAVEMENT ITEM 615 TYPE B FLEXIBLE PAVEMENT

DOUBLE 4" SOLID YELLOW ℄ 6" APART

RELOC. SECOND ST.

STA. 25+00

STA. 29+25 ERECT NEW SIGN

STOP R-1-30

RIVER ROAD

PHASE I TRAFFIC CONTROL
PHASE I CONSTRUCTION LIMITS
PHASE II TRAFFIC CONTROL
STA. 982+50 TO STA. 995+00

NOTE:

1. PHASE I DETOUR TRAFFIC CONTROL ON THIRD ST. & PHASE I CONSTRUCTION OF SECOND ST. ARE SHOWN, UPON COMPLETION OF PHASE I CONSTRUCTION PHASE II DETOUR TRAFFIC CONTROL SHALL BE INSTALLED.
2. FOR PHASE II CONSTRUCTION BARRICADES DS-50, DS-51, DS-52, & DS-54 SHALL BE RELOCATED TO NORTH SIDE OF THIRD ST.
3. FOR SECOND ST. CONSTRUCTION SEE SHEETS 61, 65, 69, 78, 86
4. FOR TEMPORARY PAVEMENT CONSTRUCTION SEE SHEETS 6, 16A

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MATCH TO SHEET Nº 11

STA. 995+00

STA. 1007+00

STA. 1019+50

DOUBLE 4" SOLID YELLOW ℄ 6" APART.

8" CHANNELIZING LINE (WHITE)

24" WHITE STOP LINE

THIRD ST

BROADWAY

FARMERS ALLEY

STA 145+75

STA 27+25

TYPE III BARRICADE 40'

TYPE III BARRICADE 78'

TYPE III BARRICADE 60'

ROAD CLOSED R-75

PHASE I NO WORK PHASE II REMOVE

PHASE II REMOVE M-25 ERECT M-26

PHASE II LOCATION OF BARRICADE

PHASE I NO WORK PHASE II REMOVE M-25

NO WORK

STOP

R-31Z (30"x 30")

ONLY ONLY

STA. 28+25 ERECT NEW SIGN

WALNUT ST.

NO LEFT TURN REMOVE

4" LANE LINE

STOP ONLY

NO RIGHT TURN STA. 34+00 NO WORK

COLLEGE ST.

PC STA. 33+17.99

PT STA. 35+81.05

Dc = 8°

4" EDGE LINE (WHITE)

STA. 34+98

STA. 33+08

EAST CONNECTOR ROAD

STA. 36+00

DOUBLE 4" YELLOW ℄ 6" APART

KEEP RIGHT

STA. 36+36 ERECT NEW SIGNS & SUPPORT

4" WHITE EDGE LINE

PHASE I DRAINAGE TO EXISTING INLET - SEE CROSS SECTIONS

PHASE I - EXISTING LIGHTING TO REMAIN SEE SHEET Nº 88, 92 FOR REMOVAL

STA. 31+38

M-1-24 M-2-24 M-2-24

KEEP LOG-39L-30 LEFT

STA. 33+00 ERECT NEW SIGN

8" CHANNELIZING LINE (WHITE)

12" WHITE CROSS WALK LINE

STA. 29+50 BEGIN TAPER

PHASE I CONSTRUCTION

RAMP M

PHASE I LOCATION. BARRICADE TO BE ERECTED WHEN BROADWAY CONSTRUCTION BEGINS. BARRICADE TO BE RELOCATED FOR PHASE II AS SHOWN.

ONLY ONLY ONLY

PHASE I NO WORK PHASE II REMOVE

DETOUR ROAD CLOSED R-75 OC-14R

RIGHT LANE MUST TURN RIGHT

PHASE I NO WORK PHASE II REMOVE

ONLY ONLY NO WORK

REMOVE

FOR ADDITIONAL SIGNAGE SEE SHEET Nº 7

ONE WAY STOP ONE WAY CINEMA

REMOVE

ONE WAY STOP ONE WAY CINEMA

REMOVE

WALL

EXISTING TEMPORARY LIGHT STA. 37+42 TO REMAIN IN PHASE I SEE SHEET Nº 32 FOR REMOVAL

PC STA. 36+94.06

CURB ENDS STA. 37+25

EXISTING Nº 5 CATCH BASIN

EXISTING 18" SEWER

EXISTING TEMPORARY LIGHT STA. 39+62 TO REMAIN IN PHASE I SEE SHEET Nº 94 FOR REMOVAL

PC. C STA. 1009+63.49

PT. STA. 40+25.78

STA. 1010+50

THIRD ST CONNECTOR

PHASE I CONSTRUCTION

DOUBLE 4" YELLOW ℄ 6" APART

EXISTING 30" SEWER

STA. 1012+07 Ex. 24" Pullbox W/8 Ex. Cable Splice Kits For Circuit 1LN ONLY

OW-71-36

OW-143-24

35

STA. 1013+00 ERECT NEW SIGNS RELOCATE FOR PHASE II SEE SHEET 15

STA. 1013+50

Existing 6# 1/0 In 3"C To Control Ctr.

4" YELLOW EDGE LINE

6# 2 In 3" C, Ckts. 1LN, 2LN, & 3LN

Ex. 2#2 Ckt. 1LN 4# 2 To Be Removed

6# 2 To Be Removed

STA. 1012+07 Ex. Light Ckt. 1LN(1)

STA. 1014+10 New 18" Pullbox W/6 Cable Splice Kits.

6# 2 In 3" C Jacked Under Pav't. 48 Lin. Ft.

600' TAPER RIGHT LANE MERGES TO LEFT LANE

EXISTING CURB

25 DRUMS @ 25' CTRS.

STA. 1014+25

STA. 1014+12 W/F LB Fitting See Detail "A"

STA. 1014+19 Ex. Light Ckt. 1LN(2) - Reconnect To Exist. Connector Kits

25 DRUMS @ 25' CTRS

4" LANE LINE

STA. 1017+50 END TEMPORARY STRIPING 8" LANES

STA. 1018+00 ERECT NEW SIGN

END CONSTRUCTION OC-8

SEE SHEET Nº 16 FOR DETAIL OF CROSS OVER

℄ LIGHT POLE STA. 1014+19

CROSS OVER AREA

PAVEMENT REMOVAL

1014+10

EXIST. 2" RACEWAY

3" Conduit Jacked Under Pav't. To Pullbox At STA. 1014+10

Exist. Barrier Median Pole End

DETAIL "A"

NOTES:

1. All Temporary Recircuitry To Be Paid For Under The Lump Sum Quantity "614 Maintaining Traffic."
2. The Temporary Recircuitry Shall Remain In Operation Until The New Lighting System Is In Operation.
3. The Removal Of Temporary Recircuitry Will Be Paid For Under The Lump Sum Quantity "614 Maintaining Traffic."
4. For Details Of Temporary Recircuitry Removal, See Sheet Nº 244 & 244A

TEMPORARY RECIRCUITRY QUANTITIES

1 - 18" Pullbox Circular 713.09
1 - W/P LB Fitting
8 - Cable Splicing Kit
48 - 3" Conduit Jacked or Drilled Under Pavement
214 - Trench 24" Deep
216 - 3" Conduit 713.04
1746 - #2 Distribution Cable

PHASE I TRAFFIC CONTROL
STA. 995+00 TO STA. 1019+50

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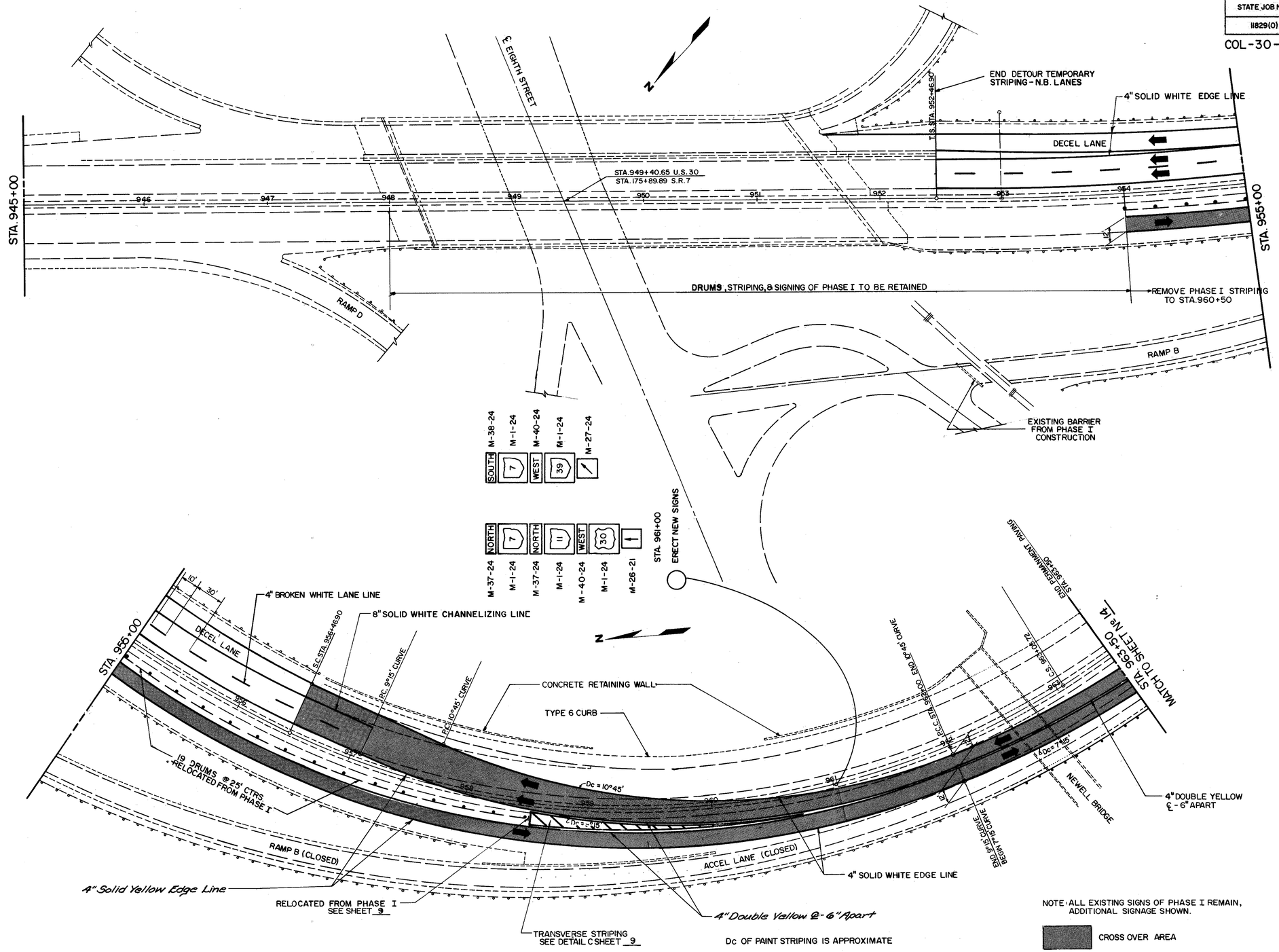

PHASE II TRAFFIC CONTROL
STA. 945+00 TO STA. 963+50

STATE JOB. Nº.	FHWA REGION	STATE	PROJECT	
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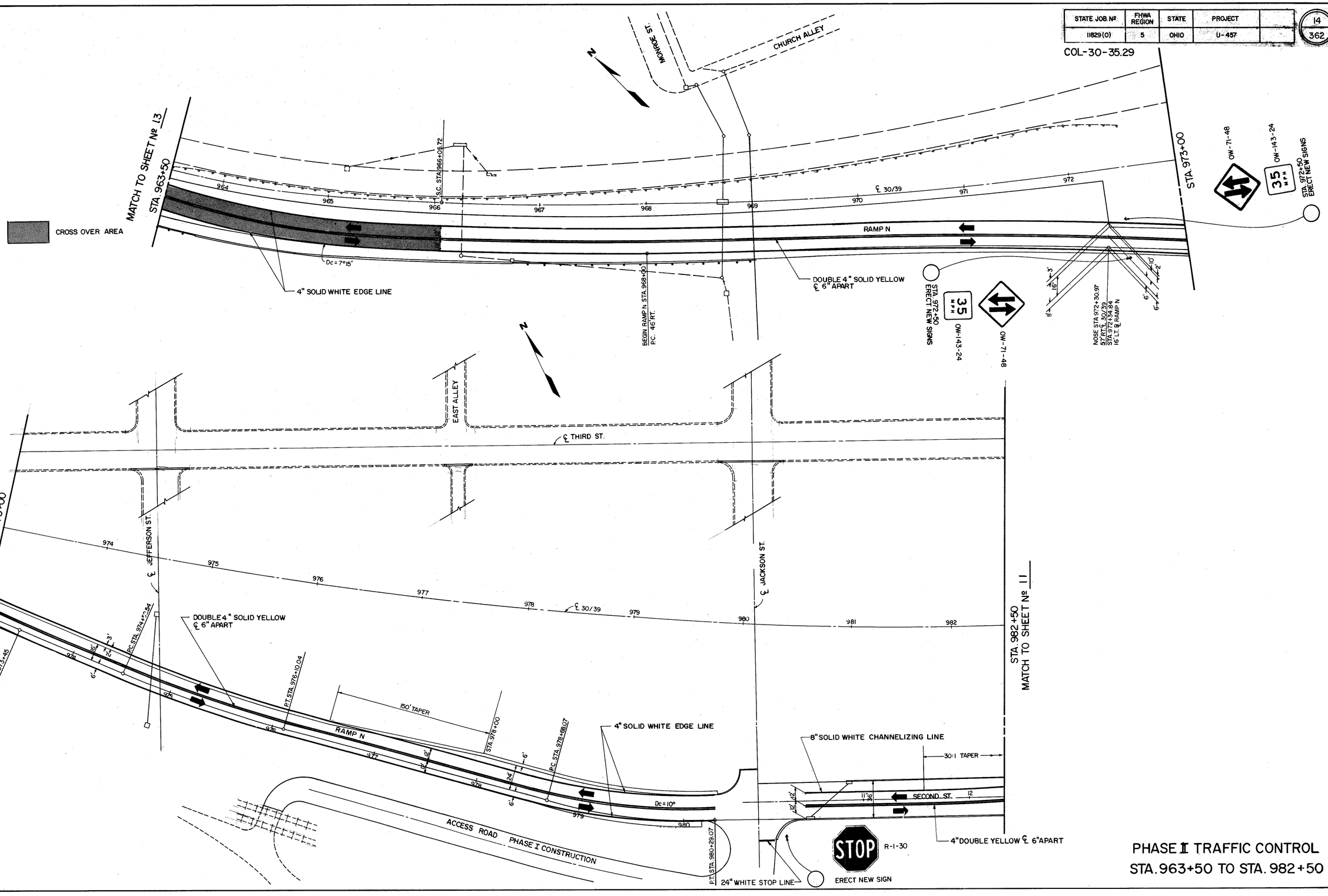

PHASE II TRAFFIC CONTROL
STA. 963+50 TO STA. 982+50

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
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N

MATCH TO SHEET Nº 11
STA. 995+00

DOUBLE 4" YELLOW ℄ 6" APART

4" WHITE EDGE LINE

FOR ADDITIONAL SIGNAGE SEE SHEET Nº 7

WALL

STA. 1007+00

N

4" EDGE LINE (WHITE)

STA. 1019+50

4" WHITE EDGE LINE

4" YELLOW EDGE LINE

EXISTING CURB

RELOCATED FROM PHASE I SEE SHEET 12

P.C.C. STA. 1009+83.49

STA. 1010+50

4" YELLOW EDGE LINE

4" LANE LINE

STA. 1017+50 END TEMPORARY STRIPING E.B. LANES

DOUBLE 4" YELLOW ℄ 6" APART

WALL

REMOVE PHASE I STRIPING STA. 1010+50 TO STA. 1017+50

CROSS OVER AREA

SEE SHEET Nº 16 FOR DETAIL OF CROSS OVER

PHASE II TRAFFIC CONTROL
STA. 995+00 TO STA. 1019+50

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PAVEMENT & BARRIER TO BE REMOVED

PAVEMENT & BARRIER TO BE REMOVED & REPLACED WITH TEMPORARY PAVING - SEE DETAIL A ITEM 615 CLASS B - SEE NOTE A

PROPOSED CONSTRUCTION

NOTE A

Upon removal of the detour, remove the temporary pavement between STA 1010+50 and STA 1014+12 to the depth necessary to provide a new barrier median and a 3" shoulder surface of 301 asphalt concrete surfaced with 409 seal coat. Cost of removing portions of the tempotory is included with ITEM 614, MAINTAINING TRAFFIC. Seperate payment shall be made for ITEM 622, ITEM 301 and ITEM 409.

NOTE B

See SHT. Nº 12 for Temporary Recircuitry Plan for Existing Lighting.

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STA. 1013+50

TEMPORARY ATTENUATOR

Existing Lighting Cable See Sheets 235 and 244

4" YELLOW EDGE LINE
4" WHITE EDGE LINE

LIGHT FOUNDATIONS TO REMAIN See NOTE B

D=2°30'

D=7°30'

END WORK STA. 1014+12

P.C.C. STA. 1009+83.49

STA. 40+25.78 = STA. 1010+50

EXISTING TEMPORARY LIGHT

DOUBLE 4" YELLOW ℄ 6" APART

TEMPORARY CONNECTOR TO THIRD ST.

D=7°00'

EXISTING CONCRETE BARRIER ℄ SR 30/39

RETAINING WALL

4" YELLOW EDGE LINE
4" WHITE EDGE LINE

TEMPORARY ATTENUATOR

PHASE I CROSS OVER

EXISTING PVMT. STA. 1010+50

RELOCATED TEMPORARY ATTENUATOR

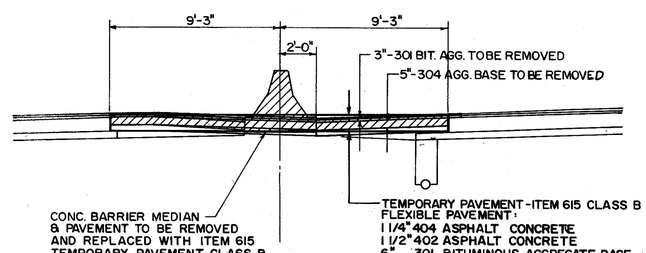
4" YELLOW EDGE LINE

4" WHITE EDGE LINE

DOUBLE 4" YELLOW ℄ 6" APART

PHASE II CROSS OVER

Dc OF STRIPING IS APPROXIMATE, SET STRIPING BY OFFSETS



DETAIL A

AA B/P

CALC. BY J.B. DATE 3-23-82		OHIO	16A
CHKD. BY W.K.D. DATE 3-7-82		FHWA REGION 5	362

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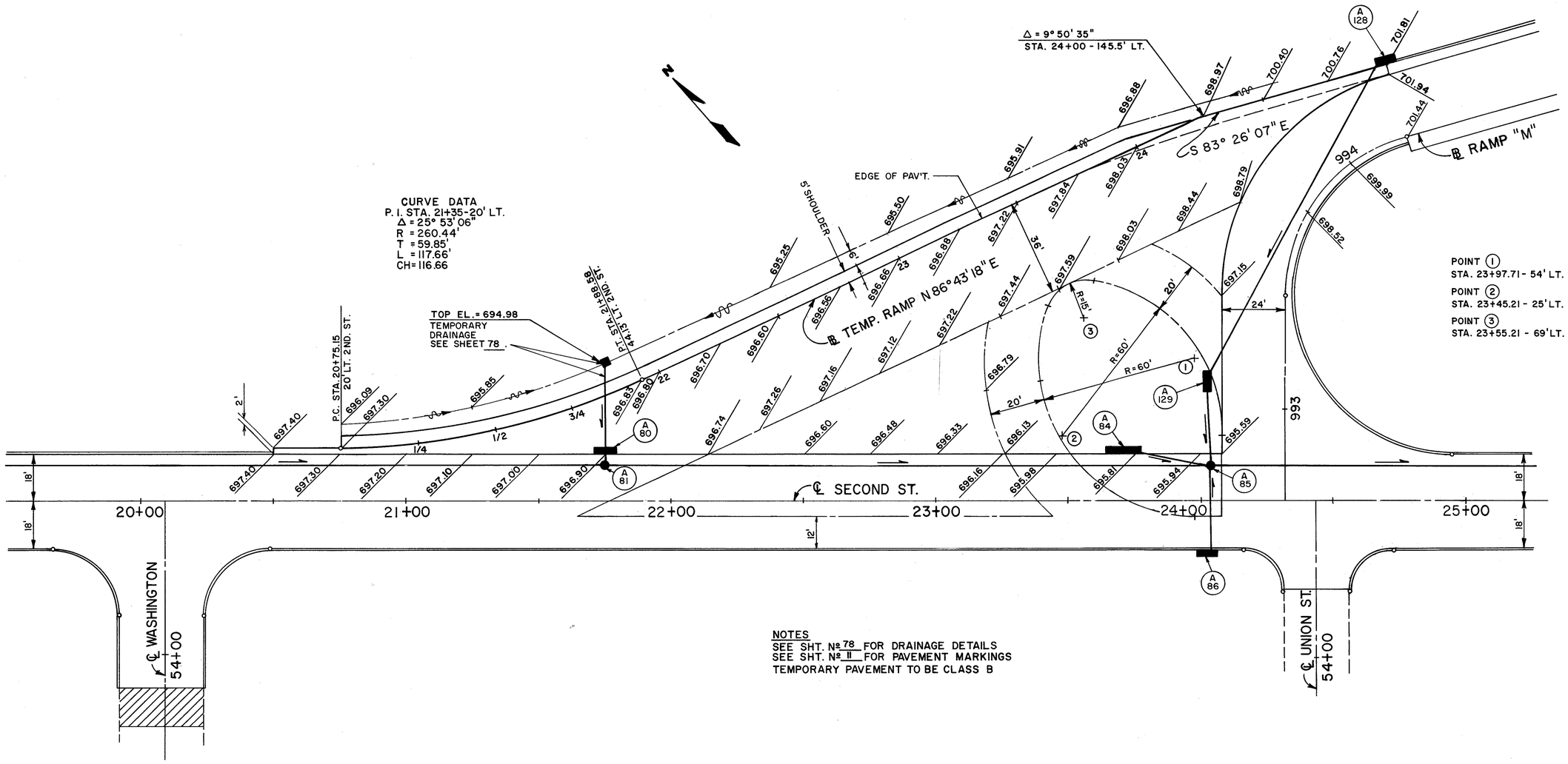

NOTES
SEE SHT. Nº 78 FOR DRAINAGE DETAILS
SEE SHT. Nº 11 FOR PAVEMENT MARKINGS
TEMPORARY PAVEMENT TO BE CLASS B

TEMPORARY PAVEMENT DETAIL RAMP 'M' & RELOC. SECOND ST.

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5	OHIO		

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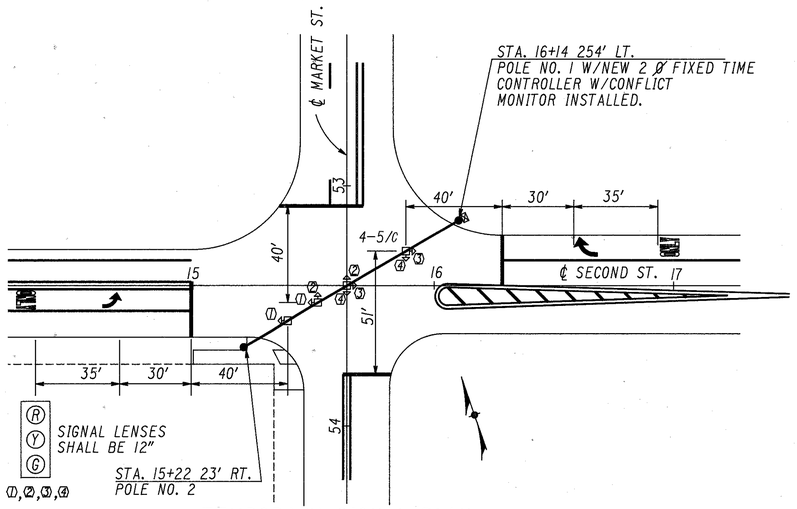
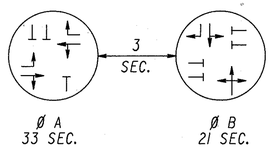


TEMPORARY SIGNAL PLAN

SECOND ST. & MARKET ST.

SCALE IN FEET

0 30 60

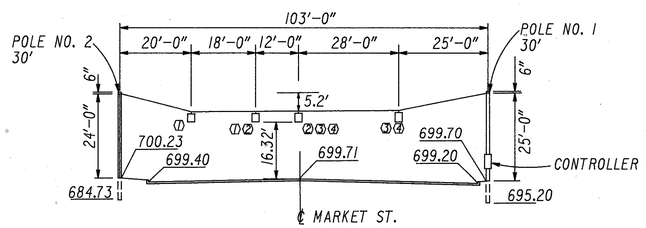


PHASING DIAGRAM

SIGNAL NO.	ØB R/W	ØB CL.	ØB R/W	ØB CL.	FLASH
1	G	Y	R	R	Y
2	R	R	G	Y	R
3	G	Y	R	R	Y
4	R	R	G	Y	R

DISPLAY CHART

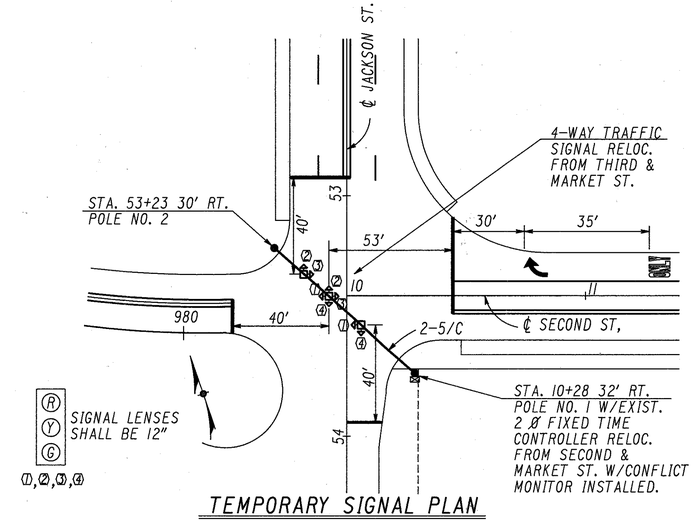
NOTES:
1. THE NEW TRAFFIC SIGNAL SHALL BE 1 WAY 3 SECTION W/12" LENSES.
2. ALL POLES SHALL BE WOOD W/DOWN GUYS.
3. REFER TO SHEET NO. 5 FOR PAVEMENT MARKING QUANTITIES.
4. REFER TO STANDARD SPECIFICATIONS & DRAWINGS FOR EQUIPMENT & INSTALLATION.
5. POWER SERVICE WILL BE BY LOCAL POWER CO.
6. ALL MESSENGER CABLE & SIGNAL CABLE SHALL BE NEW.



ELEVATION VIEW

SCALE IN FEET

0 20 40

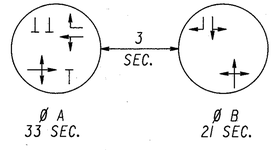


TEMPORARY SIGNAL PLAN

JACKSON ST. & SECOND ST.

SCALE IN FEET

0 30 60

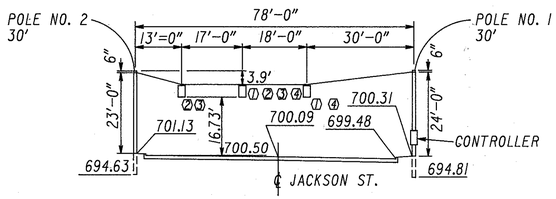


PHASING DIAGRAM

SIGNAL NO.	ØB R/W	ØB CL.	ØB R/W	ØB CL.	FLASH
1	G	Y	R	R	Y
2	R	R	G	Y	R
3	G	Y	R	R	Y
4	R	R	G	Y	R

DISPLAY CHART

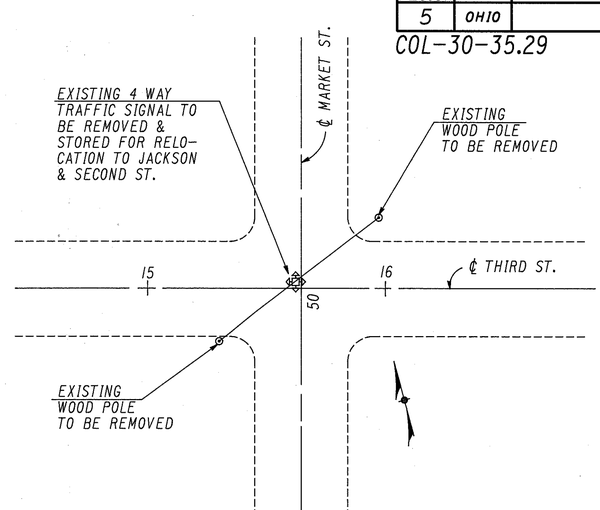
NOTES:
1. ALL PLOES SHALL BE WOOD W/DOWN GUYS.
2. REFER TO SHT. NO. 14 FOR PAVEMENT MARKING & SIGNING PLAN.
3. REFER TO STANDARD SPECIFICATIONS & DRAWINGS FOR EQUIPMENT & INSTALLATION.
4. POWER SERVICE WILL BE BY LOCAL POWER CO.
5. ALL MESSENGER CABLE & SIGNAL CABLE SHALL BE NEW.
6. TRAFFIC SIGNAL HEADS SHALL BE 1 WAY 3 SECTION W/12" LENSES.



ELEVATION VIEW

SCALE IN FEET

0 20 40



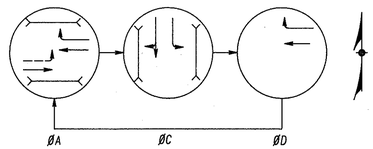
EXISTING SIGNAL PLAN

MARKET & THIRD ST.

BROADWAY & THIRD ST. SIGNAL REVISIONS

REVISIONS TO SIGNAL HEADS:
SIGNAL NO. 1 – BAG ARROWS
SIGNAL NO. 2 – BAG ARROWS
SIGNAL NO. 3 – REMAIN AS IS
SIGNAL NO. 4 – BAG ARROWS
SIGNAL NO. 5 – BAG ARROWS
SIGNAL NO. 6 – REMAIN AS IS
SIGNAL NO. 7 – DISCONNECT
SIGNAL NO. 8 – DISCONNECT

REVISED PHASING DIAGRAM



REVISED DISPLAY CHART

SIGNAL NO.	ØA R/W	ØA CL. PED	ØA CL. VEH	ØC R/W	ØC CL. PED	ØC CL. VEH	ØD R/W	ØD CL. PED	ØD CL. VEH	FLASH
1	G	G	Y	R	R	R	G	G	G	Y
2	G	G	Y	R	R	R	G	G	G	Y
3	R	R	R	G	G	Y	R	R	R	R
4	R	R	R	G	G	Y	R	R	R	R
5	G	G	Y	R	R	R	R	R	R	Y
6	G	G	Y	R	R	R	R	R	R	Y
9	W	FDW	DW	DW	DW	DW	DW	DW	DW	D
10	DW	DW	DW	W	FDW	DW	DW	DW	DW	D
11	DW	DW	DW	W	FDW	DW	DW	DW	DW	D
12	W	FDW	DW	DW	DW	DW	DW	DW	DW	D
13	W	FDW	DW	DW	DW	DW	DW	DW	DW	D
14	DW	DW	DW	W	FDW	DW	DW	DW	DW	D
15	DW	DW	DW	W	FDW	DW	DW	DW	DW	D
16	W	FDW	DW	DW	DW	DW	DW	DW	DW	D

REVISED TIMING SEQUENCE

Ø A GREEN – 46 SEC.
Ø C GREEN – 22 SEC.
Ø D GREEN – 10 SEC.
AMBER TIME – 12 SEC.
TOTAL – 90 SEC. CYCLE

NOTES:
1. EXISTING Ø B SHALL BE DISCONNECTED.
2. ALL WORK ON THE BROADWAY & THIRD ST. SIGNAL SYSTEM TO BE BY OTHERS.

TEMPORARY TRAFFIC SIGNAL PLANS

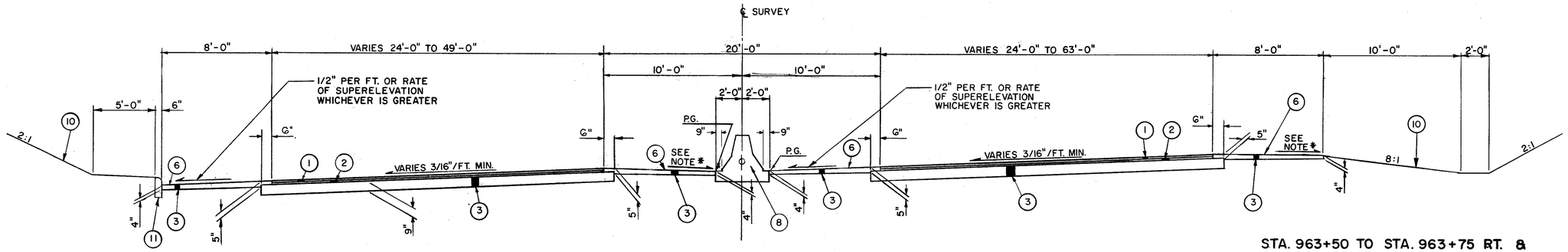
REVISED 7-14-90

TYPICAL SECTION
TYPE 404 ON 301

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

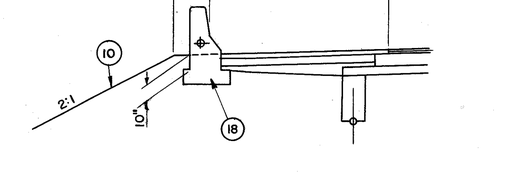
COL-30-35.29

17
362



NOTE: DELETE CURB STA. 972+00 TO 973+72

STA. 963+50 TO STA. 978+61 LT.



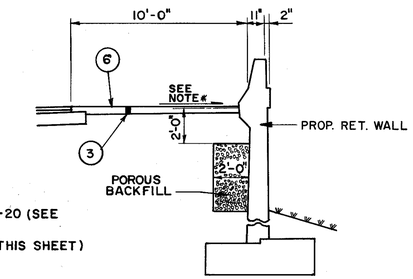
STA. 978+61 TO STA. 980+00 LT.

SUPERELEVATED SECTION 20' MEDIAN

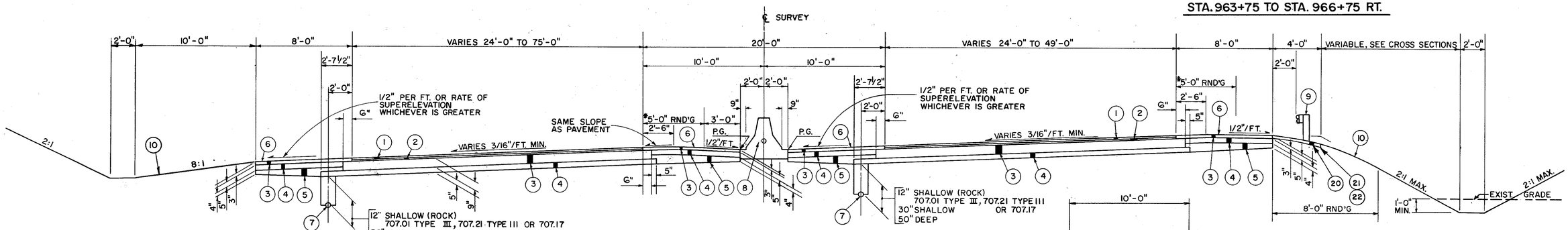
STA. 963+50 TO STA. 980+00 = 1650.00 LIN. FT.

CODE	ITEM	LEGEND
1	404	1 1/4" ASPHALT CONCRETE, AC-20
2	402	1 3/4" ASPHALT CONCRETE, AC-20
3	301	BITUMINOUS AGGREGATE BASE, AC 20 (THICKNESS AS SHOWN)
4	304	AGGREGATE BASE (THICKNESS AS SHOWN)
5	310	SUBBASE, TYPE II (THICKNESS AS SHOWN)
6	409	SEAL COAT USING 0.008 CU. YD. NO. 8 COVER AGGREGATE AND 0.30 GAL. BITUMINOUS MATERAL, PER SQ. YD.
7	605	6" PIPE UNDERDRAIN
8	622	CONCRETE BARRIER, TYPE 'B', AS PER PLAN
9	606	GUARDRAIL, TYPE 5, AS PER PLAN
10	659	SEEDING AND MULCHING
11	609	CURB, TYPE 6
18	622	CONCRETE BARRIER, TYPE 'D', AS PER PLAN
20	404	2" ASPHALT CONCRETE SURFACE COURSE, TYPE I, AC-20 (SEE GENERAL NOTE FOR SHOULDER TREATMENT)
21	408	BITUMINOUS PRIME COAT, AS PER PLAN (SEE NOTE * THIS SHEET)
22		SOIL STERILIZER (SEE NOTE * THIS SHEET)

STA. 963+50 TO STA. 963+75 RT. & STA. 966+75 TO STA. 980+00 RT.



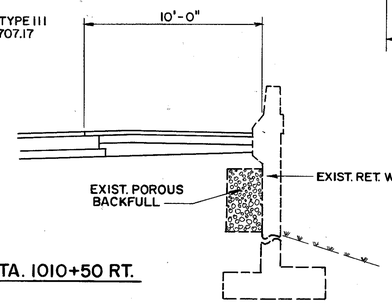
STA. 963+75 TO STA. 966+75 RT.



SUPERELEVATED SECTION 20' MEDIAN

STA. 980+00 TO STA. 996+85.02	=	1685.02 LIN. FT.
STA. 996+85.02 TO STA. 999+21.80	=	236.78 LIN. FT.
BRIDGE & APPROACH SLABS		
STA. 999+21.80 TO STA. 1010+50	=	1128.20 LIN. FT.
		3050.00 LIN. FT.

STA. 998+96.80 TO STA. 1001+50 LT.



STA. 1007+00 TO STA. 1010+50 RT.

4 0 2 4 8

* NOTE: SEE GENERAL NOTE PERTAINING TO SHOULDER TREATMENT & ITEM 408 PRIME COAT, AS PER PLAN FOR PRIME COAT AND SOIL STERILIZER SPECIFICATION AND APPLICATION RATE.

NOTE: SUPERELEVATED PAVED SHOULDERS - THE HIGHSIDE SHOULDER SHALL SLOPE AWAY FROM THE PAVEMENT AT THE RATE OF ¼"/FT. UNTIL THE BREAK BETWEEN SHOULDER AND PAVEMENT REACHES 7.00%, AFTER WHICH THE 7.00% BREAK SHALL BE MAINTAINED. THE SLOPE OF THE SHOULDER SHALL NOT BE LESS THAN 1/8" PER FT.

TYPICAL SECTION

TYPICAL SECTION
TYPE 404

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

18
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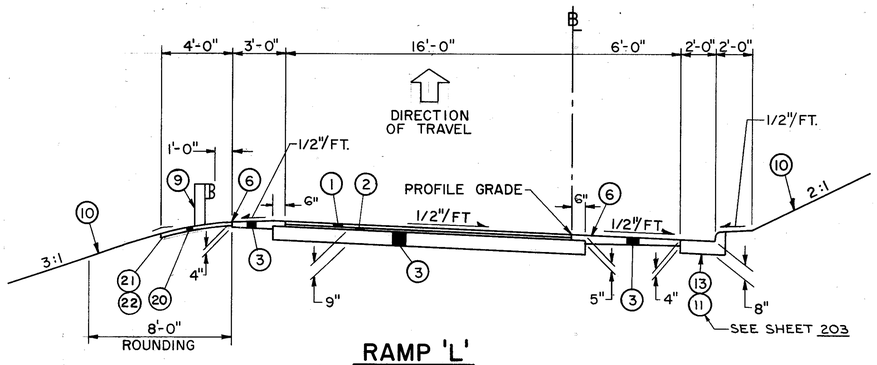
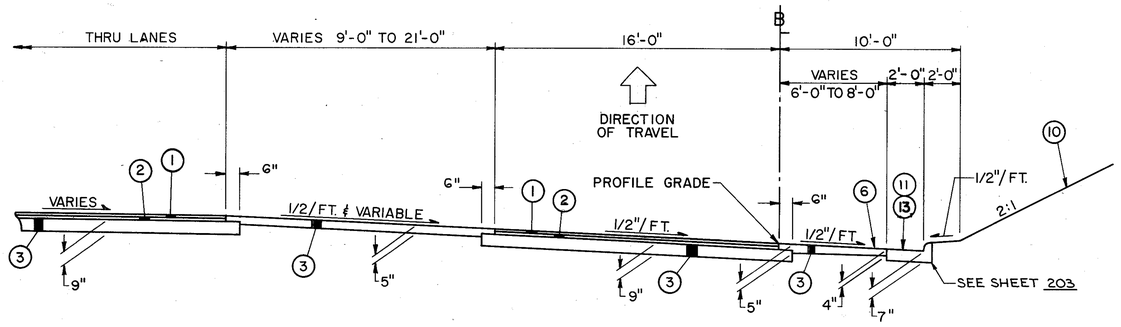


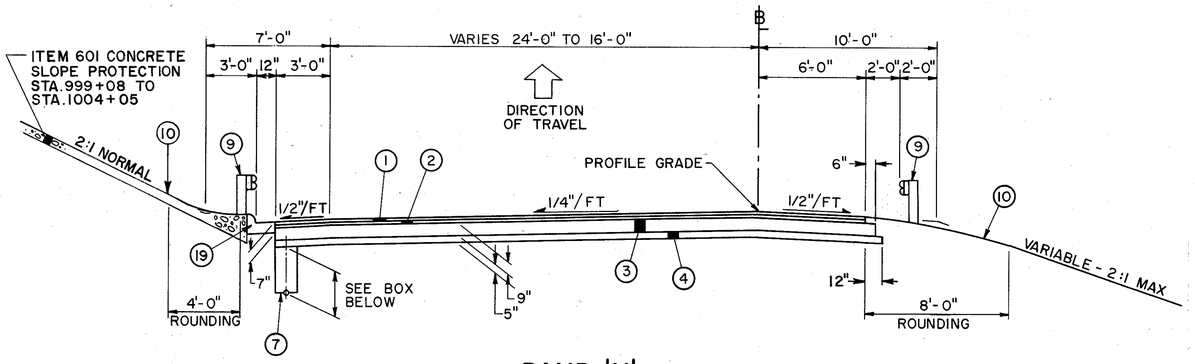
RAMP 'L'

STA.973+75 TO STA.979+34.74



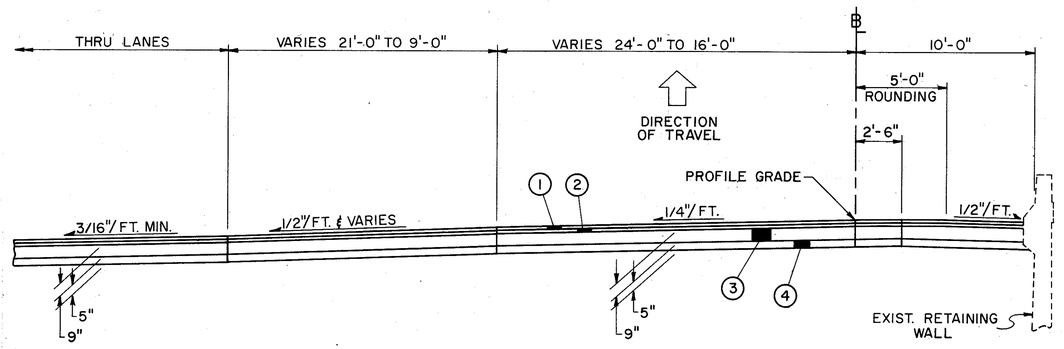
RAMP 'L' ENTRANCE TERMINAL

STA.972+00 TO STA.973+75



RAMP 'M'

STA.994+24.58 TO STA.996+98.97
STA.996+98.97 TO STA.999+25.23 BRIDGE & APPROACH SLABS
STA.999+25.23 TO STA.1004+00



RAMP 'M' ENTRANCE TERMINAL

STA.1004+00 TO STA.1007+00

UNDERDRAINS	
DEPTH	TYPE
12"	SHALLOW (ROCK) 707.01 TYPE III, 707.21 TYPE III OR 707.17
30"	SHALLOW
50"	DEEP

✱ NOTE: SEE GENERAL NOTE PERTAINING TO SHOULDER TREATMENT & ITEM 408 PRIME COAT, AS PER PLAN FOR PRIME COAT AND SOIL STERILIZER SPECIFICATION AND AND APPLICATION RATE.

LEGEND

CODE	ITEM	
1	404	1¾" ASPHALT CONCRETE, AC-20
2	402	1 3/4" ASPHALT CONCRETE, AC-20
3	301	BITUMINOUS AGGREGATE BASE, AC-20 (THICKNESS AS SHOWN)
4	304	AGGREGATE BASE (THICKNESS AS SHOWN)
6	409	SEAL COAT USING 0.008 CU. YD. NO. 8 COVER AGGREGATE AND 0.30 GALS. BITUMINOUS MATERIAL, PER SQ. YD.
7	605	6" PIPE UNDERDRAIN
9	606	GUARDRAIL, TYPE 5
10	659	SEEDING AND MULCHING
11	609	CURB, TYPE 6
13	609	COMBINATION CURB AND GUTTER, TYPE 2
19	**609**	**COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN (SEE GENERAL NOTE)**
20	**404**	**2" ASPHALT CONCRETE , AC-20 (SEE GENERAL NOTE) FOR SHOULDER TREATMENT)**
21	**408**	**BITUMINOUS PRIME COAT, AS PER PLAN (SEE NOTE ✱ THIS SHEET)**
22		**SOIL STERILIZER (SEE NOTE ✱ THIS SHEET)**

4 0 2 4 8

SEE SHEETS 203, 204 & 205 FOR GEOMETIC PLANS.

TYPICAL SECTION

TYPICAL SECTION
TYPE 404

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

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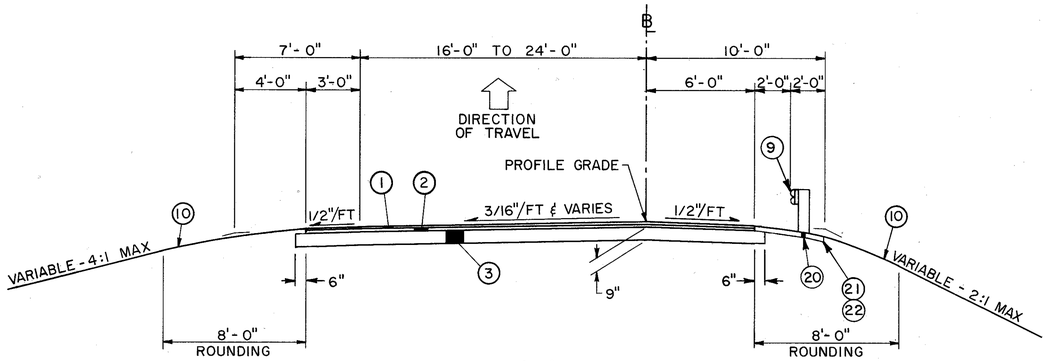
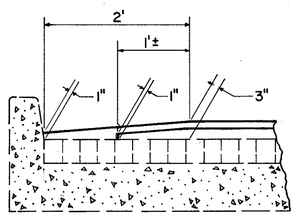
362

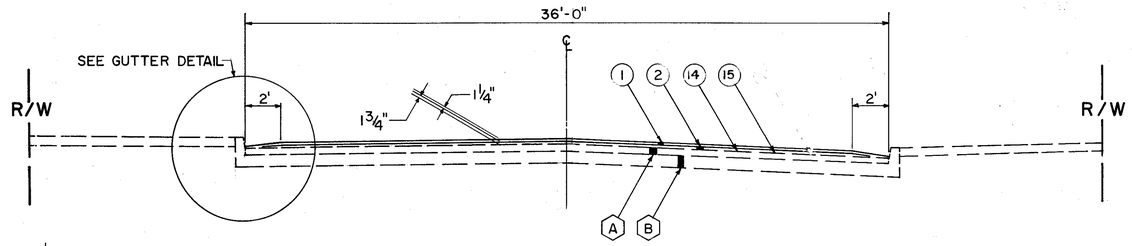


RAMP 'N'

STA. 372+34.84 TO STA. 380+15.87



RIGHT AND LEFT GUTTER DETAIL

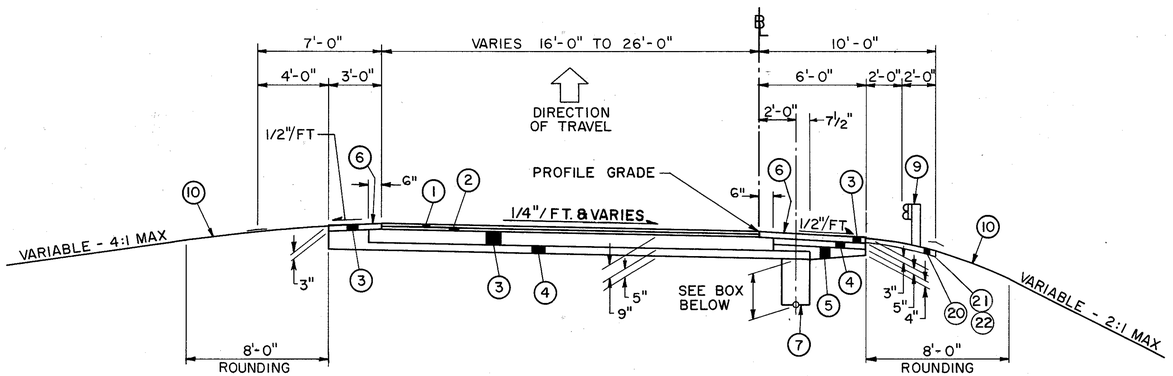


FOURTH ST.

STA. 29+71.58 TO STA. 34+97 = 525.42 LIN.FT.

(A) EXISTING 4" BRICK SURFACE

(B) EXISTING 8" CONCRETE BASE



RAMP 'O'

STA. 391+78.60 TO STA. 396+20.54

UNDERDRAINS	
DEPTH	TYPE
12"	SHALLOW (ROCK) 707.01 TYPE III, 707.21 TYPE III OR 707.17
30"	SHALLOW
50"	DEEP

LEGEND

CODE	ITEM	
1	404	1½" ASPHALT CONCRETE, AC-20
2	402	1 3/4" ASPHALT CONCRETE, AC-20
3	301	BITUMINOUS AGGREGATE BASE, AC-20 (THICKNESS AS SHOWN)
4	304	AGGREGATE BASE (THICKNESS AS SHOWN)
5	310	SUBBASE TYPE II, (THICKNESS AS SHOWN)
6	409	SEAL COAT USING 0.008 CU. YD. NO. 8 COVER AGGREGATE AND 0.30 GALS. BITUMINOUS MATERIAL, PER SQ. YD.
7	605	6" PIPE UNDERDRAIN
9	606	GUARDRAIL, TYPE 5
10	659	SEEDING AND MULCHING
14	403	0" MIN. ASPHALT CONCRETE PRE-LEVEL COURSE, AC-20
15	407	TACK COAT (SEE GENERAL NOTE)
20	404	2" ASPHALT CONCRETE, AC-20 (SEE GENERAL NOTE FOR SHOULDER TREATMENT)
21	408	BITUMINOUS PRIME COAT, AS PER PLAN (SEE NOTE * THIS SHEET)
22		SOIL STERILIZER (SEE NOTE * THIS SHEET)

4 0 2 4 8

NOTE: SEE GENERAL NOTE PERTAINING TO SHOULDER TREATMENT & ITEM 408 PRIME COAT, AS PER PLAN FOR PRIME COAT, AND SOIL STERILIZER SPECIFICATIONS AND APPLICATION RATE.

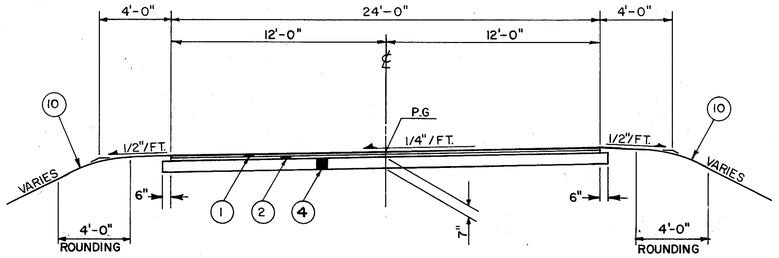
SEE SHEETS 206 & 207 FOR GEOMETRIC PLANS

TYPICAL SECTION

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

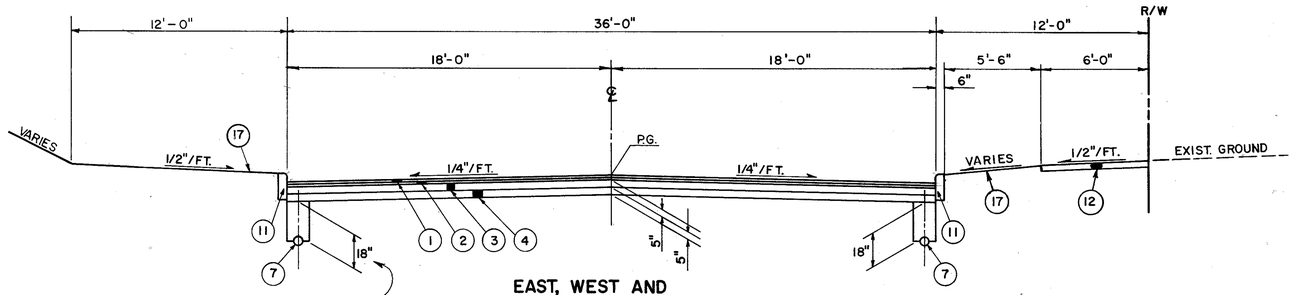
COL - 30 - 35.29

TYPICAL SECTION
TYPE 404



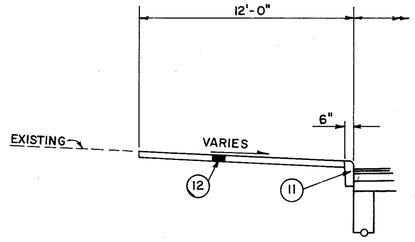
WEST FIRST ST.

STA. 45+62 TO STA. 49+37.83 = 375.83 LIN. FT.

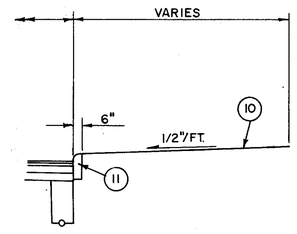


EAST, WEST AND RELOCATED SECOND ST.

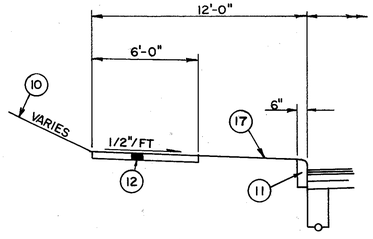
STA. 9+46.80 TO STA. 33+53.47 = 2406.67 LIN. FT.



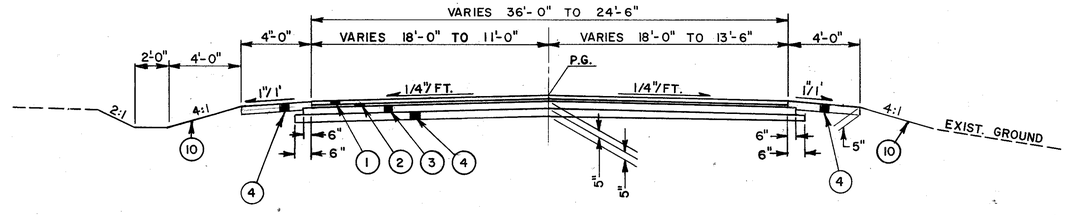
STA. 17+49 TO STA. 19+79 (LT.)



STA. 24+88 TO STA. 33+53.47 (RT.)



STA. 24+80 TO STA. 28+12.65 (LT.)



RELOCATED SECOND ST.

STA. 33+87.41 TO STA. 35+81.15 = 193.74 LIN. FT.

LEGEND

CODE	ITEM	
1	404	1½" ASPHALT CONCRETE, AC-20
2	402	1 3/4" ASPHALT CONCRETE, AC-20
3	301	BITUMINOUS AGGREGATE BASE, AC-20 (THICKNESS AS SHOWN)
4	304	AGGREGATE BASE (THICKNESS AS SHOWN)
7	605	6" PIPE UNDERDRAIN
10	659	SEEDING AND MULCHING
11	609	CURB, TYPE G
12	608	4" CONCRETE WALK
17	660	SODDING

RIVER ROAD
STA. 2+45 TO STA. 4+15.24

MARKET STREET
STA. 53+60 - STA. 54+12

PAVEMENT COMPOSITION AND THICKNESS IS THE SAME AS SECOND ST. TYPICAL AS SHOWN LEFT. SEE PAVEMENT DETAIL SHEET FOR PAVEMENT WIDTHS.

4 0 2 4 8

TYPICAL SECTION

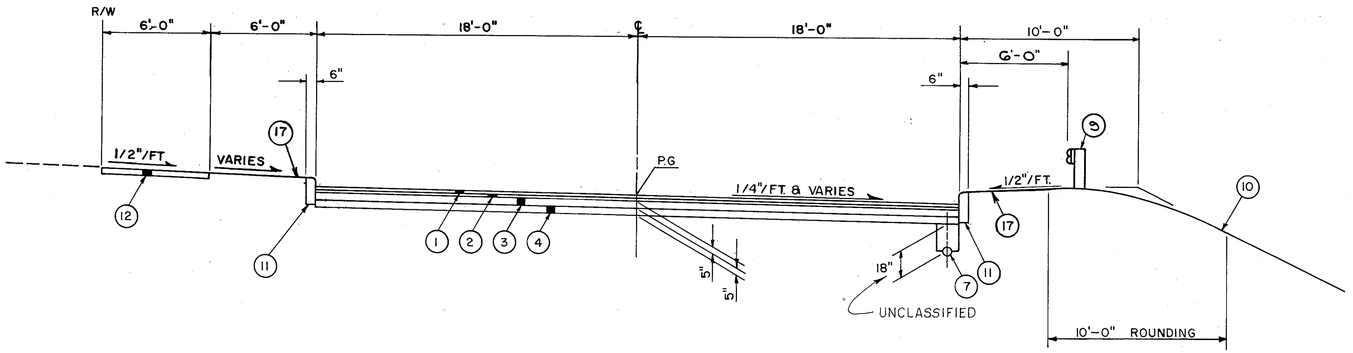
AA B/P

TYPICAL SECTION
TYPE 404
ON 304

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

21
362



EAST AND WEST THIRD ST.

STA.9+42.04 TO STA.21+17.65=1175.61 LIN. FT.

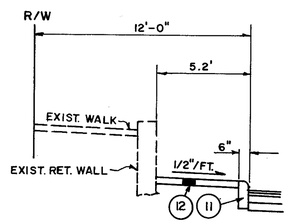
MARKET STREET

STA. 49+00 - STA. 49+82

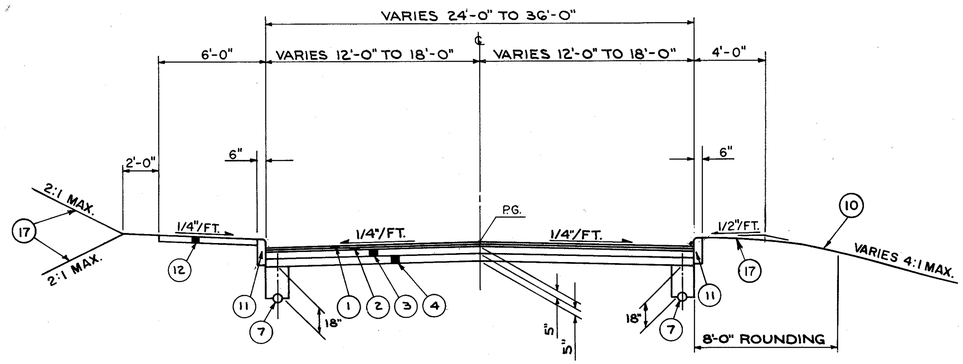
PAVEMENT COMPOSITION AND THICKNESS IS THE SAME AS THIRD ST. TYPICAL AS SHOWN ABOVE. SEE PAVEMENT DETAIL SHEET FOR PAVEMENT WIDTHS.

LEGEND

CODE	ITEM	
1	404	1¾" ASPHALT CONCRETE, AC-20
2	402	1 3/4" ASPHALT CONCRETE, AC-20
3	301	BITUMINOUS AGGREGATE BASE, AC-20 (THICKNESS AS SHOWN)
4	304	AGGREGATE BASE (THICKNESS AS SHOWN)
7	605	6" PIPE UNDERDRAIN
9	606	GUARDRAIL, TYPE 5
10	659	SEEDING AND MULCHING
11	609	CURB, TYPE C
12	608	4" CONCRETE WALK
17	660	SODDING



STA. 16+03 TO STA. 19+79



RELOCATED THIRD STREET

STA. 9+95 TO STA. 13+50 = 355.00 LIN. FT

4 0 2 4 8

TYPICAL SECTION

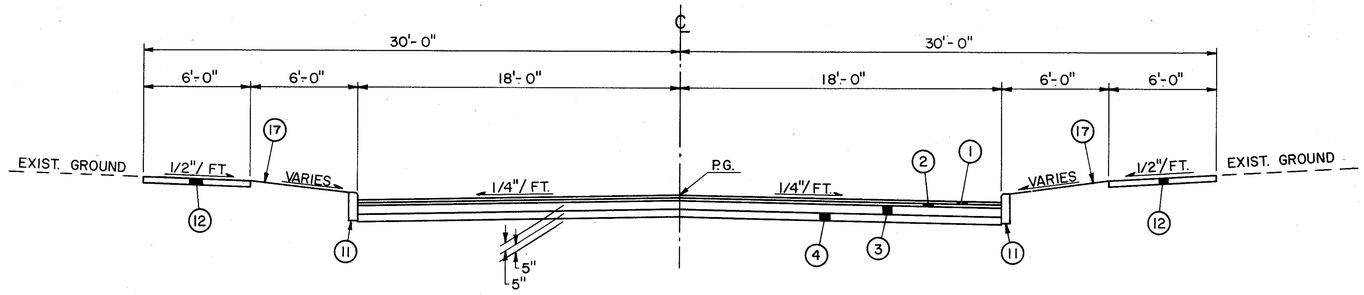
38720

TYPICAL SECTION
TYPE 404
ON 304

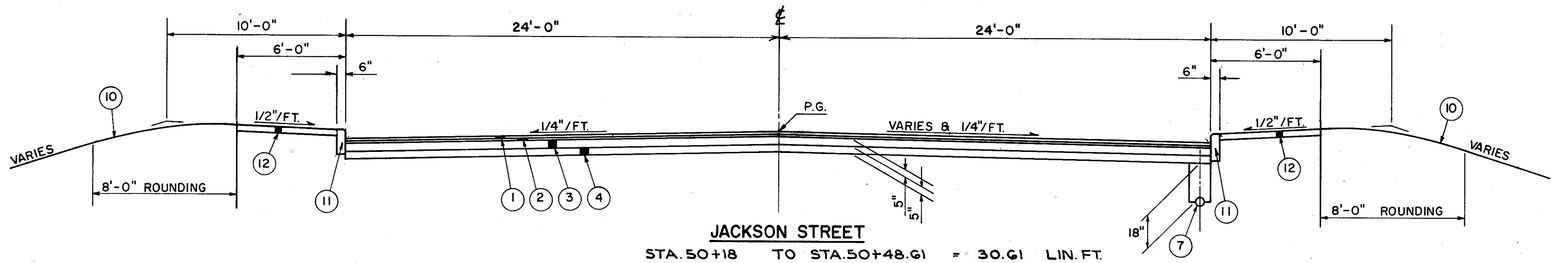
	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

22
362

COL-30-35.29



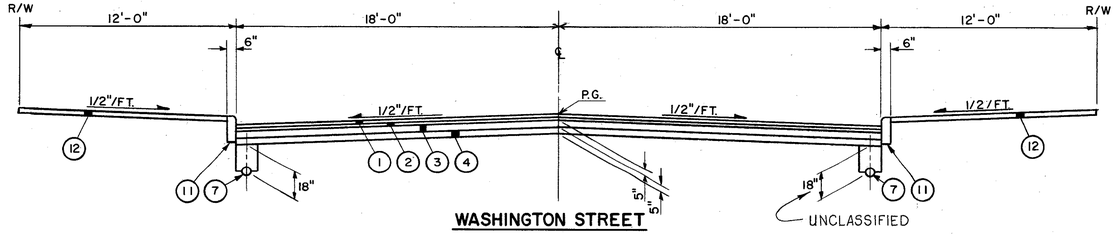
JACKSON STREET
STA 48+50 TO STA 49+82 = 132.00 LIN. FT.



JACKSON STREET

STA. 50+18	TO STA. 50+48.61	=	30.61 LIN. FT.
STA. 50+48.61	TO STA. 52+79.11	=	230.50 LIN. FT.
BRIDGES & APPROACH SLABS			
STA. 52+79.11	TO STA. 53+23.98	=	44.87 LIN. FT.
			305.98 LIN. FT.

JACKSON STREET
STA. 53+59.98 TO STA. 54+61
PAVEMENT SECTION AS SHOWN FOR WIDTH AND CONSTRUCTION DETAILS
SEE SHEETS. 61 & 65 .



WASHINGTON STREET

STA. 46+76.96	TO STA. 49+82	=	305.04 LIN. FT.
STA. 53+59.98	TO STA. 54+12.5	=	52.52 LIN. FT.
			357.56 LIN. FT.

LEGEND

CODE	ITEM	
1	404	1½" ASPHALT CONCRETE, AC-20
2	402	1 3/4" ASPHALT CONCRETE, AC-20
3	301	BITUMINOUS AGGREGATE BASE, AC-20 (THICKNESS AS SHOWN)
4	304	AGGREGATE BASE (THICKNESS AS SHOWN)
7	605	6" PIPE UNDERDRAIN
10	659	SEEDING AND MULCHING
11	609	CURB, TYPE C
12	608	4" CONCRETE WALK
17	660	SODDING

4 0 2 4 8

TYPICAL SECTION

AA B/P

TYPICAL SECTION
TYPE 404

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

23
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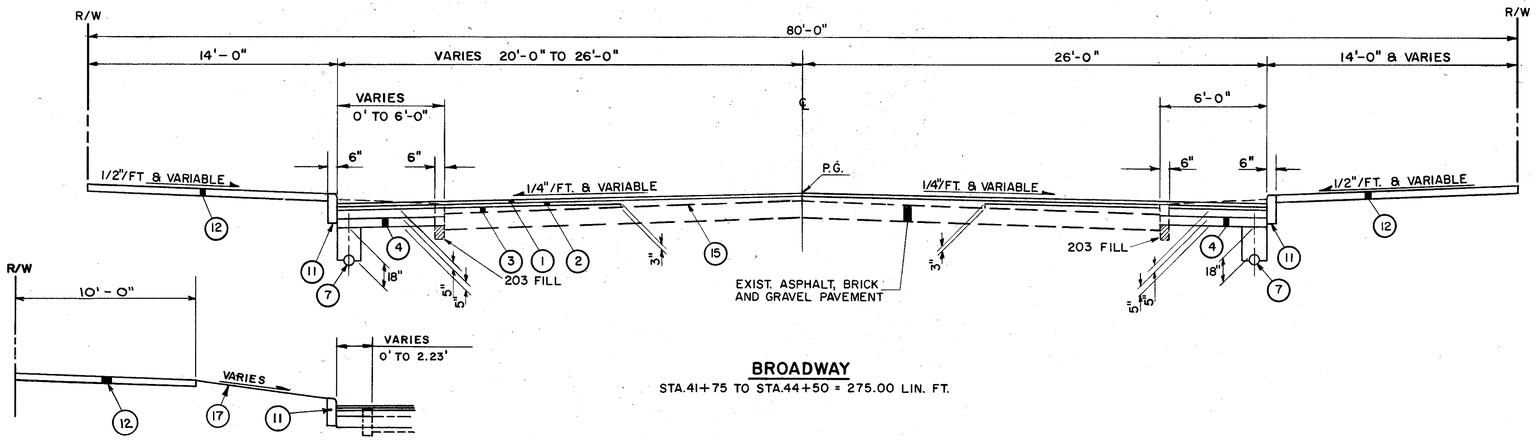
COL-30-35.29



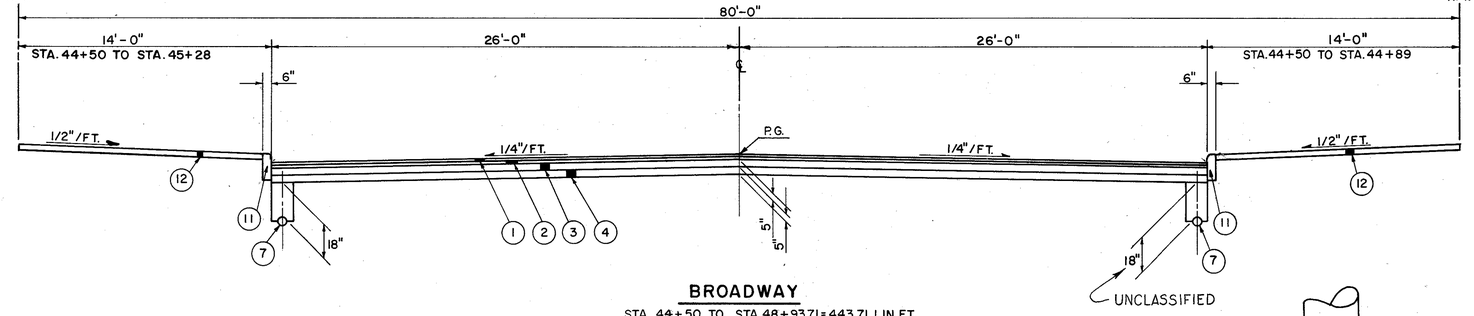
BROADWAY

STA.41+75 TO STA.44+50 = 275.00 LIN. FT.

STA. 41+75 TO STA. 42+29.17 (LT.)

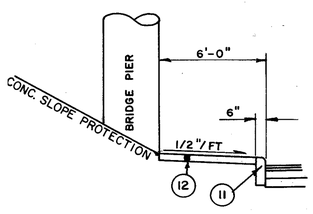
LEGEND

CODE	ITEM	
1	404	1¾" ASPHALT CONCRETE, AC-20
2	402	1 3/4" ASPHALT CONCRETE, AC-20
3	301	BITUMINOUS AGGREGATE BASE, AC-20 (THICKNESS AS SHOWN)
4	304	AGGREGATE BASE (THICKNESS AS SHOWN)
7	605	6" PIPE UNDERDRAIN
10	659	SEEDING AND MULCHING
11	609	CURB, TYPE G
12	608	4" CONCRETE WALK
15	407	TACK COAT
17	660	SODDING

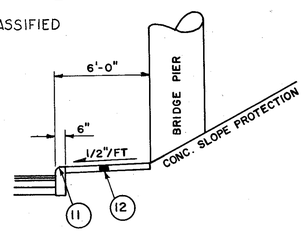


BROADWAY

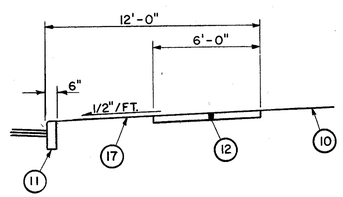
STA. 44+50 TO STA. 48+93.71 = 443.71 LIN. FT.



STA. 45+53 TO STA. 47+80



STA. 45+00 TO STA. 47+55.37



STA. 47+80.37 TO SECOND ST.

4 0 2 4 8

TYPICAL SECTION

38720

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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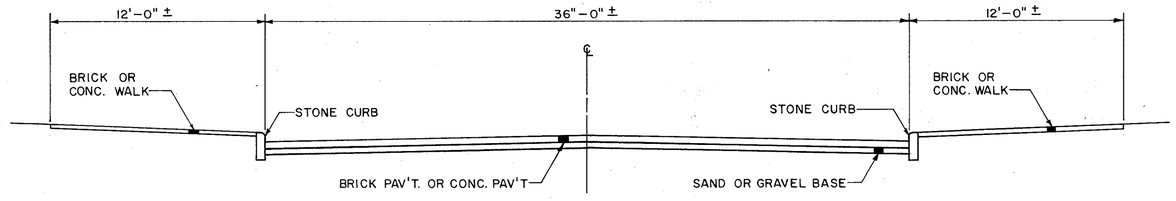
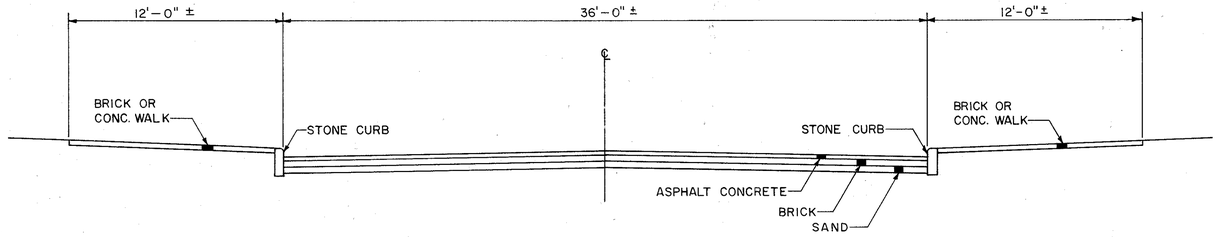


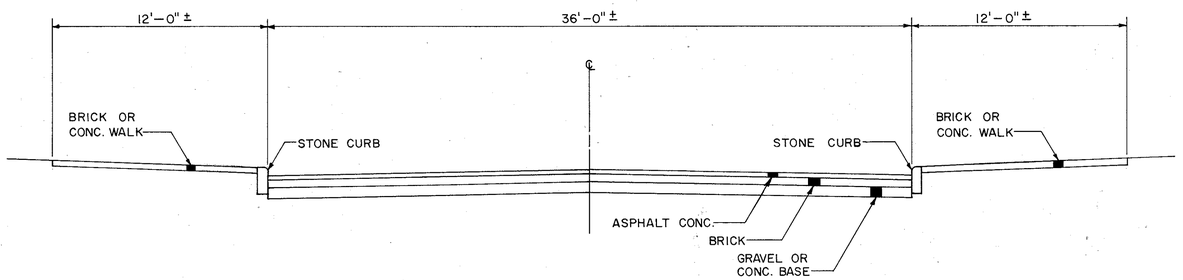
EXISTING SECOND STREET

(BRICK PAV'T TO CONC. PAV'T)



EXISTING SECOND STREET

(ASPHALT CONC. PAV'T.)



EXISTING THIRD STREET

EXISTING TYPICAL SECTIONS

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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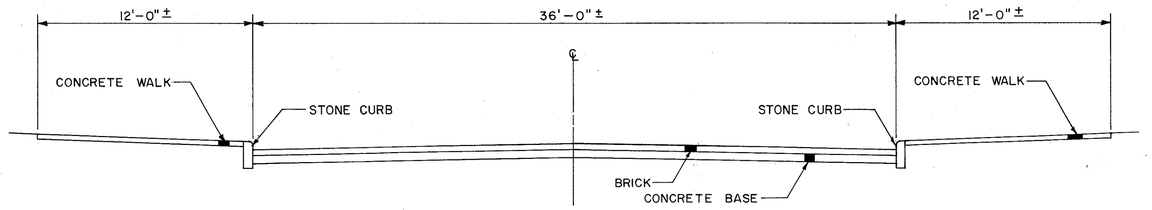
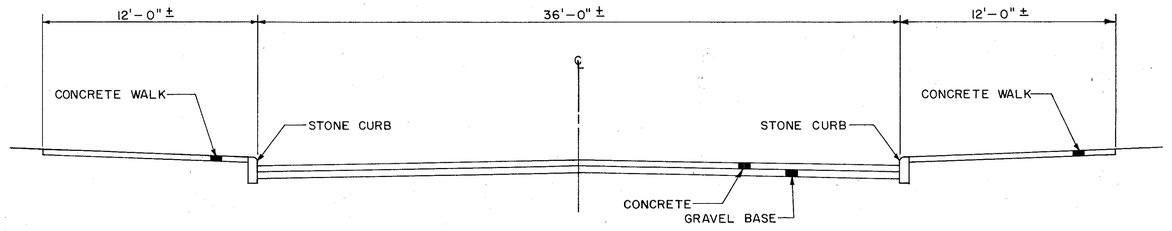
COL-30-35.29

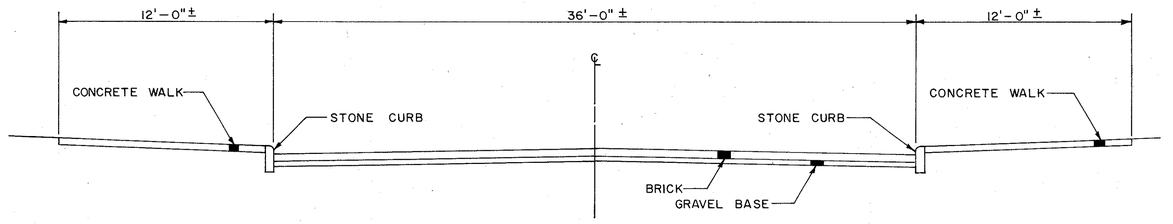


EXISTING FOURTH STREET



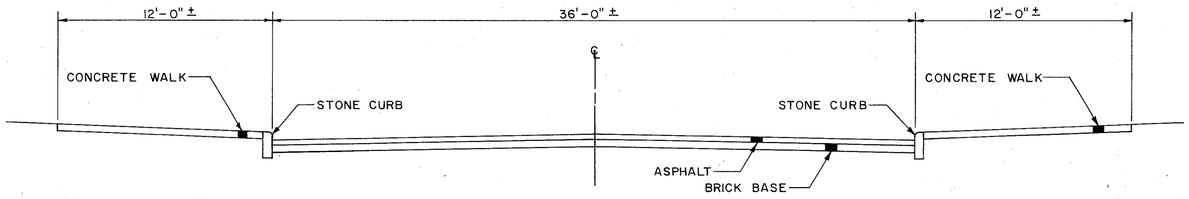
EXISTING JACKSON STREET

(THIRD STREET TO CENTER ALLEY)



EXISTING JACKSON STREET

(CENTER ALLEY TO SECOND STREET)



EXISTING JACKSON STREET

(NORTH OF THIRD STREET)

EXISTING TYPICAL SECTIONS

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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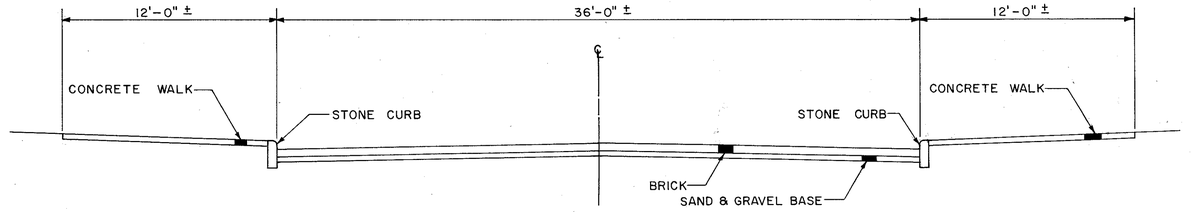
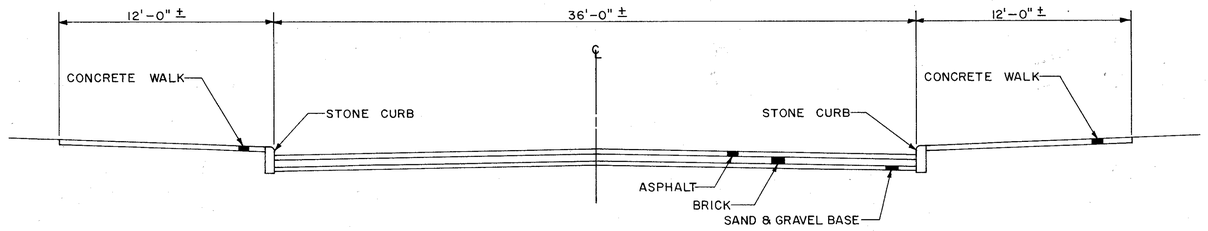
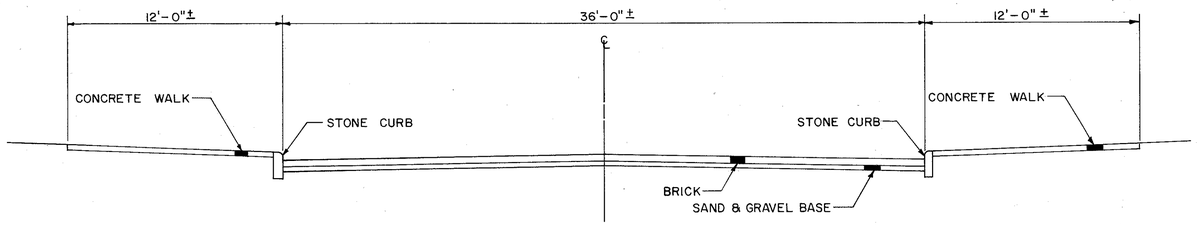
COL-30-35.29



EXISTING MARKET STREET

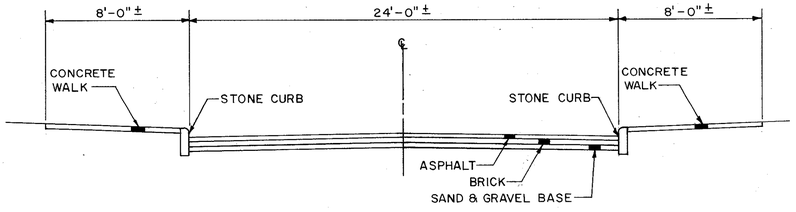


EXISTING WASHINGTON STREET



EXISTING WASHINGTON STREET

(SOUTH OF THIRD STREET)

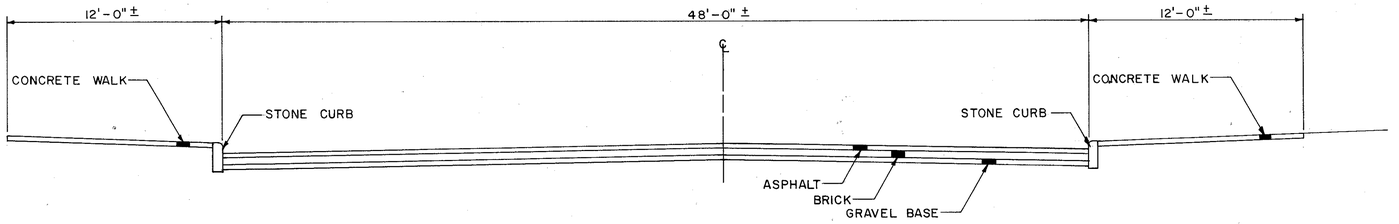


EXISTING UNION STREET

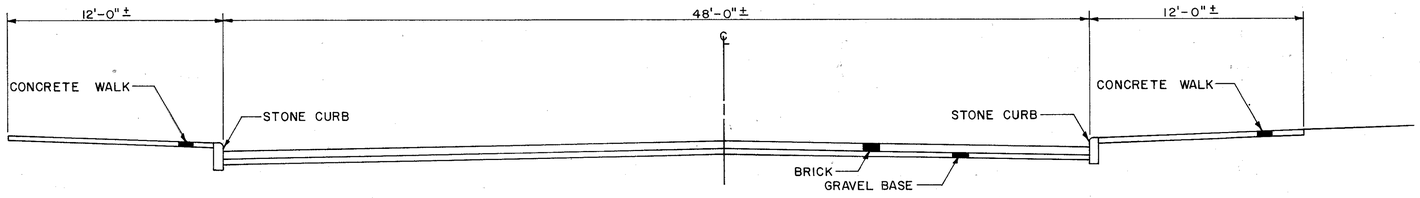
EXISTING TYPICAL SECTIONS

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

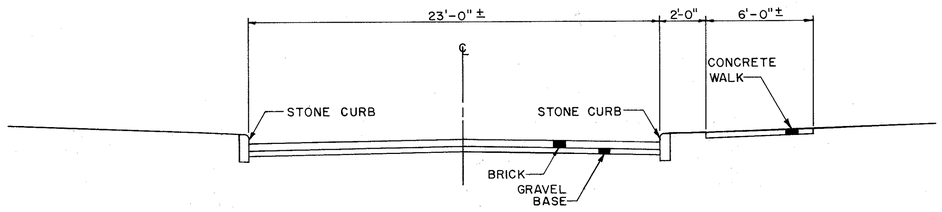
COL-30-35.29



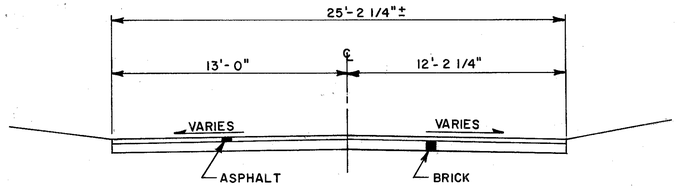
EXISTING BROADWAY
(NORTH TO THIRD STREET)



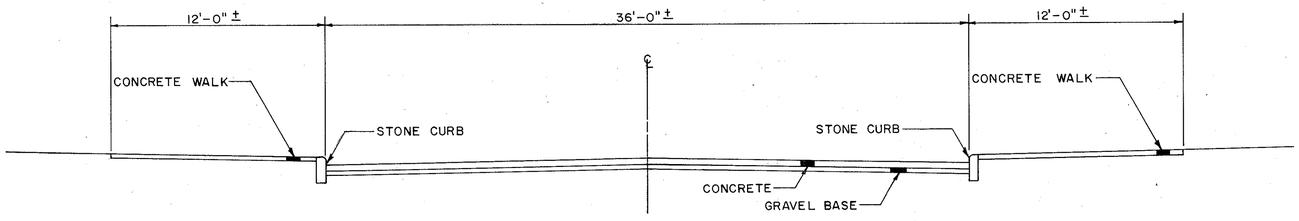
EXISTING BROADWAY
(NORTH OF FOURTH STREET)



EXISTING COLLEGE STREET



RIVER ROAD



EXISTING WALNUT STREET

EXISTING TYPICAL SECTIONS

AA B/P

GENERAL NOTES

CALC. BY CEW DATE 12-28-84
CHKD. BY LCK DATE 1-2-85

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FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 800 SQ. FT. OF FLOOR SPACE.

PAYMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619 FIELD OFFICE.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

WATER DEPARTMENT
CITY OF EAST LIVERPOOL
126 W. 6TH STREET
EAST LIVERPOOL, OHIO 43920
PH. 216/386-6584

OHIO POWER COMPANY
301 CLEVELAND AVE., S.W.
P.O. BOX 400
CANTON, OHIO 44701
PH. 216/456-8173

COLUMBIA GAS OF OHIO, INC.
200 CIVIC CENTER DRIVE
P.O. BOX 117
COLUMBUS, OHIO 43215
PH. 614/460-2400

OHIO BELL TELEPHONE COMPANY
2405 MARKET STREET
YOUNGSTOWN, OHIO 44507
PH. 216/744-6450

C.A.T.V. OF OHIO VALLEY, INC.
415 MARKET STREET
EAST LIVERPOOL, OHIO 43920
PH. 216/385-4854

SEWER DEPARTMENT
CITY OF EAST LIVERPOOL
126 W. 6TH STREET
EAST LIVERPOOL, OHIO 43920
PH. 216/386-6584

COLUMBIS GAS TRANSMISSION CORP.
P. O. BOX 1273
CHARLESTON, W. VA. 25325
PH. 304/357-2000

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED AS DIRECTED BY THE ENGINEER UNLESS AUTHORIZED BY THE ENGINEER.

REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSEWHERE IN THESE PLANS SHALL NOT BE REMOVED.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED:

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	87	3	90
30"	13	2	15
48"	0	0	0
60"	1	0	1

THE ABOVE ESTIMATE IS APPROXIMATE AND THE STATE OF OHIO RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON STANDARD CONSTRUCTION DRAWING MC-1. FOR LOCATIONS, SEE ROADWAY PLAN SHEETS.

LOCATION OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE RIGHT-OF-WAY FENCE LINES, BETWEEN THE RIGHT-OF-WAY LINES IN UNFENCED AREAS, AND WITHIN THE WORK LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY TEMPORARY WORK AGREEMENT.

ITEM 203, PROOF ROLLING

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

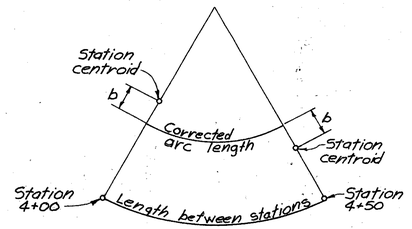
WATERING AND MOWING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 659.09:

659 WATER 100 M GAL.
659 MOWING 200 M SQ. FT.

EARTHWORK COMPUTATIONS

WHERE ALIGNMENT OF THE ROADWAY IS CURVED AND THE CENTER OF GRAVITY OR CENTROID OF THE END AREA FOR EITHER CUT OR FILL IS NOT LOCATED ON OR NEAR THE CENTERLINE, CORRECTION IN ARC LENGTH HAS BEEN MADE, AS SHOWN IN THE DIAGRAM BELOW. CORRECTED ARC LENGTHS ARE SHOWN IN TABULAR FORM ON THE SHEET FOLLOWING THE CROSS SECTIONS.



PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY OF BUILDING PORTIONS OF THIS PROJECT UNDER TRAFFIC AND CONSTRUCTING THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT ON CENTERLINE IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-5.

TACK COAT

THE RATE OF APPLICATION OF 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.10 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES.

COLUMBIA GAS TRANSMISSION CORPORATION'S BROADWAY STATION

1. REMOVE AND SALVAGE THE EXISTING GATE ON APPLE ALLEY LOCATED ON THE WEST SIDE OF COLUMBIA'S PROPERTY. (GATE TO BE STORED ON COLUMBIA'S PROPERTY.)
2. REMOVE AND REINSTALL EXISTING CHAIN-LINK FENCE, PRESENTLY LOCATED FIFTEEN (15) FEET FROM THE REAR OF COLUMBIA'S REGULATOR AND MEASUREMENT BUILDING, TO A POINT NOT CLOSER THAN SIX (6) FEET FROM THE REAR OF THE EXISTING. THE SIX (6) FOOT MINIMUM CLEARANCE BETWEEN THE EXISTING BUILDING AND RELOCATED FENCE IS REQUIRED TO PERMIT OPENING AND CLOSING OF THE DOUBLE-DOORS ON THE BACK OF THE BUILDING.
3. FURNISH AND INSTALL, AT NO COST TO COLUMBIA, OTHER MATCHING FENCE MATERIAL, SUCH AS FENCING, POSTS, BRACES, ETC., SO AS TO ENCLOSE COLUMBIA'S PROPERTY, INCLUDING THE AREA WHERE THE GATE (ITEM 1) WAS REMOVED, SHOULD THE RELOCATED FENCE NOT TOTALLY ENCLOSE THIS SECTION.

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED IN THE GENERAL SUMMARY FOR THE ABOVE WORK:

ITEM 202 FENCE REMOVED FOR REUSE	88 LIN. FT.
ITEM 202 GATE REMOVED FOR SALVAGE	1 EACH
607 FENCE TYPE CL	77 LIN. FT.
607 FENCE REBUILT	88 LIN. FT.

SHOULDER TREATMENT AND 408 PRIME COAT, AS PER PLAN

A 4'-0" WIDTH ADJACENT TO THE EXISTING OUTSIDE PAVED SHOULDER IN GUARDRAIL AREAS SHALL BE PAVED WITH A 2 INCH COMPACTED COURSE OF ITEM 404 ASPHALT CONCRTE AS SHOWN ON THE TYPICAL SECTION.

PRIOR TO PLACING THIS MATERIAL, A SOIL STERILIZER USING ONE OF THE FOLLOWING BRANDS SHALL BE APPLIED AT THE RATE RECOMMENDED BY THE MANUFACTURER.
1) PRIMATOL 25E BY CIBA GEIGY.
2) KROVAR BY DIAMOND SHAMROCK.
3) AN APPROVED EQUAL.

ITEM 408 BITUMINOUS PRIME COAT SHALL BE APPLIED AT THE RATE OF 0.4 GAL. PER SQ. YD. PRIOR TO PLACING THE 404 ASPHALT CONCRETE.

AFTER THE 404 ASPHALT CONCRETE HAS BEEN PLACED AND COMPACTED, HOLES FOR GUARDRAIL POSTS SHALL THEN BE BORED THROUGH THE 404 AND THE POST INSTALLED. THE DISTURBED AREA AROUND EACH POST SHALL THEN BE BACK-FILLED WITH 404. AND COMPACTED FLUSH WITH THE SURROUNDING SURFACE. ANY EXCESS 404 OR OTHER DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE DESCRIBED RESURFACING SHALL BE INCLUDED IN ITEM 404 ASPHALT CONCRETE, AC-20, UNDER GUARDRAIL WITH THE FOLLOWING EXCEPTIONS:

THE SOIL STERILANT AND PRIME COAT SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 408 BITUMINOUS PRIME COAT, AS PER PLAN. PAYMENT FOR GUARDRAIL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 606 GUARDRAIL, TYPE 5, AS PER PLAN.

ITEM 606 GUARDRAIL, TYPE 5, AS PER PLAN

THIS WORK SHALL CONSIST OF CONSTRUCTING THE TYPE 5 GUARDRAIL AS PER STANDARD CONSTRUCTION DRAWING GR2B AND SHALL INCLUDE BORING THROUGH THE 404 ASPHALT CONCRETE TO A DEPTH OF 6" AT EACH POST LOCATION.

PAYMENT FOR THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 606 GUARDRAIL, TYPE 5, AS PER PLAN.

GENERAL NOTES

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APPURTENANCE STATIONING

ALL MANHOLES, CATCH BASINS AND INLETS CALLED FOR ON THESE PLANS ARE LOCATED BY THE STATION AND OFFSET DESCRIBED BELOW:

MANHOLES: STATION AND OFFSET TO CENTERLINE OF COVER.

NO. 2A-6 TO 2A-20 INLETS: STATIONED TO CENTER OF COVER AND OFFSET TO FACE OF CURB.

NO. I-3B INLETS: STATION TO CENTER OF GRATE.

NO. 2-2-A, 2-2-B, 5 AND 5A CATCH BASINS: STATION AND OFFSET TO CENTERLINE OF GRATE.

NO. 3, 3A AND 6 CATCH BASINS: STATIONED TO CENTERLINE OF GRATE AND OFFSET TO FACE OF CURB.

ITEM 604 MANHOLE RECONSTRUCTED WITH DROP PIPE, AS PER PLAN

ALL EXISTING MANHOLES **SO DESIGNATED** SHALL CONFORM TO THE DROP PIPE SHOWN IN STANDARD CONSTRUCTION DRAWING MH-2.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PERTINENT 603 CONDUIT ITEMS OF THE CONTRACT.

HOUSE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS OR YARD DRAINS, DISTURBED BY THE PROPOSED WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO A STORM SEWER, MANHOLE, CATCH BASIN, THROUGH THE CURB.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 4" CONDUIT TYPE E, 707.19 — 200 LIN. FT.
ITEM 603 4" CONDUIT TYPE E, 706.01, 706.02 OR 706.08 — 200 LIN. FT.
ITEM 603 6" CONDUIT TYPE F — 200 LIN. FT.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL REQUESTED BY THE ENGINEER.

UNRECORDED SANITARY CONNECTIONS

ANY UNRECORDED ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SEWER, AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 - LIN. FT. 6" CONDUIT, TYPE C 706.01, 706.02, 706.08 WITH JOINTS AS PER 706.11 OR 706.12. — 100 LIN. FT.

ITEM 603 - LIN. FT. 6" CONDUIT, TYPE B, 706.01 C1.3, 706.02 OR 706.08 WITH JOINTS, AS PER 706.11 OR 706.12. — 100 LIN. FT.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

CONDUIT UNDER RAILROADS

ITEM 603 CONDUIT TYPE B UNDER RAILROAD AS PER PLAN ITEMS ARE TO BE INSTALLED ACCORDING TO PROPOSAL NOTE NO. 80.

UTILITIES ON CROSS SECTIONS

EXISTING UTILITIES HAVE BEEN SHOWN ON THE TOP AND BOTTOM SECTION OF EACH SHEET. UTILITIES BETWEEN THESE SECTIONS ARE IN THE SAME LOCATION RELATING TO CENTERLINE OFFSET AND ELEVATION UNLESS OTHERWISE INDICATED.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES SEWER FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED IN USE.

PAYMENT FOR ANY ADDITIONAL COSTS INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE RESPECTIVE ITEMS OF 603 CONDUIT.

CONNECTIONS TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS.

SPRING DRAINS

REFERENCE IS MADE TO THE DETAILED DRAWING ON STANDARD DRAWING MC-1 SHOWING THE METHOD OF DRAINING ANY SPRING THAT MAY BE SHOWN ON THE PLAN OR ENCOUNTERED DURING CONSTRUCTION AS DETERMINED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE:

ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN, 707.01 TYPE III OR 707.21 TYPE III AS PER PLAN - 300 L.F.
ITEM 605 - AGGREGATE DRAINS FOR SPRINGS, - 30 L.F.

THE CONTRACTOR SHALL NOT ORDER MATERIALS FOR "SPRING DRAINS" UNTIL AUTHORIZED BY THE ENGINEER AND IN THE EVENT NO SPRINGS ARE ENCOUNTERED, THE ITEM SHALL BE NON-PERFORMED.

CONDUIT END TREATMENT

IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE RIPRAP, ROCK CHANNEL PROTECTION, SODDING, ETC.

REINFORCED CONCRETE CATCH BASINS

CONCRETE CATCH BASINS, OVER 12 FEET IN DEPTH, SHALL BE REINFORCED BY PLACING 3/4" DIAMETER BARS 12" CENTER TO CENTER AS SHOWN ON STANDARD CONSTRUCTION DRAWINGS CB 2-5 AND 2-6. PAYMENT FOR FURNISHING AND PLACING THE REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 604, REINFORCED CONCRETE CATCH BASIN.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

THE CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT-OF-WAY FOR SALVAGE BY CITY FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 202 ITEM.

ITEM 203 SPECIAL EMBANKMENT

THIS ITEM SHALL CONSIST OF PLACING SPECIAL EMBANKMENT MATERIAL OVER THE GRANULAR SUBGRADE AS SHOWN ON THE PLANS.

THE SPECIAL EMBANKMENT SHALL BE 1'-0" THICK (NORMAL TO THE SLOPE) AND SHALL BE PLACED DURING THE PLACING OF OTHER FILL AND NOT LAID UP AS A "SHELL" AFTER THE FILL BASE HAS BEEN PLACED.

SPECIAL EMBANKMENT SHALL CONSIST OF SOIL MATERIAL AS DEFINED IN SECTION 203.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. ITEM 203 SPECIFICATIONS SHALL GOVERN THIS WORK. PAYMENT FOR ITEM 203 SPECIAL EMBANKMENT SHALL BE ON A VOLUME BASIS, COMPLETE IN PLACE AND SHALL INCLUDE ALL MATERIAL AND LABOR TO SATISFACTORILY COMPLETE THIS WORK.

ITEM 202 WALL REMOVED EACH

WHERE CALLED FOR ON THE PLANS, EXISTING WALLS SHALL BE REMOVED AS PER ITEM 202-061.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL LABOR AND MATERIALS TO SATISFACTORILY COMPLETE THE WORK.

ITEM 203 Excavation. as per plan

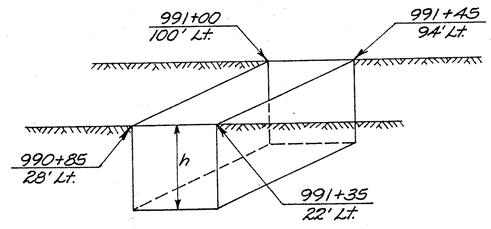
This item shall consist of the excavation of contaminated soil and its removal to a licensed landfill. The contaminated soil is located on Parcel 165. a former gasoline service station at the southeast corner of Third St. and Washington St. The limits of the contamination are bounded as shown in the sketch below. The contaminated area extends approximately 50 ft. parallel to Third St. and 70 ft. parallel to Washington St. with a variable depth from 5 to 18 ft., for a total volume of 2000 Cubic Yards.

All petroleum hydrocarbon impacted soil shall be removed from the site and disposed of in a licensed landfill. A properly equipped Geologist shall be on-site to make field determinations as to which soils contain high levels of Purgable Aromatics.

Prior to excavation of petroleum hydrocarbon impacted soil. a series of test pits shall be positioned around the estimated impacted area. The pits will define the limits of the impacted soil and establish the pay quantity for the bid item. The pits will serve as sites for obtaining soil samples for waste characterization tests so soil can be admitted into a licensed landfill.

Payment for all operations described above shall be included in the unit price bid for Item 203 Excavation. as per plan.

Excess excavation necessary to obtain a stable slope may be used as embankment elsewhere on the project and its removal shall not be a separate pay item. but will be included in the cost of Item 203 Excavation. as per plan.



h = Varies From 5' To 18'

EROSION CONTROL

ITEMS 601, 660 AND 670 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS, AND TURF OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE 660 OR 670. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

ITEM 202 LIGHT POLE FOUNDATION REMOVED - EACH

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING LIGHT POLE FOUNDTIONS.

WHEN FOUNDATIONS ARE LOCATED BELOW THE SUBGRADE OR FINISHED GROUND LINES, THEY SHALL BE REMOVED TO A MINIMUM DEPTH OF ONE FOOT BELOW THESE LINES.

ALL COSTS SHALL BE INCLUDED IN THE CONTRACT PRICE BID PER EACH: ITEM 202 LIGHT POLE FOUNDATION, REMOVED.

ITEM 202 LIGHT POLE AND FOUNDATION

WHERE CALLED FOR ON THE PLANS, EXISTING LIGHT POLES, LUMINAIRES, BRACKET ARMS, POLE WIRING AND FOUNDATIONS SHALL BE REMOVED BY THIS CONTRACTOR.

POLES, LUMINAIRES, BRACKET ARMS AND POLE WIRING SHALL BE STORED WITHIN THE PROJECT LIMITS FOR REMOVAL BY STATE FORCES. WHEN FOUNDATIONS ARE LOCATED BELOW THE SUBGRADE OR FINISHED GROUND LINES, THEY SHALL BE REMOVED TO A MINIMUM DEPTH OF ONE FOOT BELOW THESE LINES.

ALL COSTS SHALL BE INCLUDED IN THE CONTRACT PRICE BID PER EACH FOR ITEM 202 LIGHT POLE AND FOUNDATION.

INLET, Nº I-3A & I-3B - AS PER PLAN

These inlets shall have a base width of six feet to match the modified median barrier. The cost of the additional width of the base through the length of the inlet shall be included in the unit price bid for ITEM 604, Inlet, Nº I-3A, As Per Plan or ITEM 604, Inlet, Nº I-3B, As Per Plan.

ITEM 604 RECONSTRUCTED TO GRADE - AS PER PLAN EACH

THIS ITEM SHALL CONSIST OF RECONSTRUCTING THE EXISTING MANHOLE AS DESCRIBED IN 604.03 AND PROVIDING A NEW SLOTTED COVER. THE SLOTTED COVER SHALL BE:

NUMBER 185 HEAVY GRATE COVER MANUFACTURED BY THE EAST AKRON CASTING CO., TALLMADGE, OHIO, OR R-24-20 WITH G TYPE GRADE AS MANUFACTURED BY THE NEENAH FOUNDRY COMPANY, NEENAH, WISCONSIN OR APPROVED EQUAL.

PAYMENT FOR THE WORK INCLUDED IN THIS ITEM SHALL INCLUDE ALL MATERIALS AND LABOR TO COMPLETE THE ITEM COMPLETE IN PLACE.

SUFFIX I OR II AT DRAINAGE ELEMENT IDENTIFICATION NUMBERS ON PLAN SHEETS INDICATE CONSTRUCTION REQUIRED UNDER PHASE I OR PHASE II.

DRAINAGE ELEMENTS NOT IDENTIFIED ARE UNDER PHASE II CONSTRUCTION. STUBS ARE REQUIRED AT PHASE I INLETS FOR PHASE II CONSTRUCTION.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER, FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

207	TEMPORARY SEEDING AND MULCHING	16,200	SQ. YD.
659	MOWING	20	M. SQ. FT.
659	COMMERCIAL FERTILIZER	4	TON
659	REPAIR SEEDING AND MULCHING	4,000	SQ. YD.
659	WATER	35	M. GAL.

GAS LINE RELOCATION

As part of the utility relocation for this project, Columbia Gas of Ohio, Inc., will install a new gas line beneath the new Broadway pavement. The contractor shall give advance notice to the Gas Company three weeks prior to the time his work on Broadway between Second St. and Third St. will be completed to rough grade. The contractor shall again notify the Gas Co when the work has been completed to rough grade. The Gas Co shall have three weeks from the date of notification to place their 10" gas line.

The contractor shall coordinate his work with the utility so as to provide the most expedient method for both utility and roadway work.

ITEM 605-6' SHALLOW ROCK CUT PIPE UNDERDRAINS (707.01 TYPE III, 707.21 TYPE III or 707.17

Although the soil borings do not indicate that any of the underdrain will be placed in rock, a quantity of 1000 Lin. Ft. has been included in the General Summary to be used in the event that rock is encountered in the subgrade.

REVISED 9-12-90

GENERAL NOTES

AA B/P

GENERAL NOTES

CALC. BY C.M.P. DATE 03-21-88
CHKD. BY LCK DATE 7-12-88
OHIO
FHWA REGION 5
30
362
COL-30-35.29

WATER LINE NOTES

GENERAL
ALL CONSTRUCTION ON WATER MAINS SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 814, WATER MAINS AND SERVICES BRANCHES (1-21-88), EXCEPT AS AMENDED HEREIN.
THE CONSTRUCTION OF RELOCATED WATER MAINS OWNED BY THE CITY OF EAST LIVERPOOL WILL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE DESIGNATED REPRESENTATIVE OF THE CITY OF EAST LIVERPOOL AND THE PROJECT ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY OF EAST LIVERPOOL WATER DEPARTMENT 2 WORKING DAYS IN ADVANCE OF BREAKING GROUND ON EACH WATER MAIN RELOCATION. HE WILL OBTAIN PERMISSION BEFORE REMOVING ANY WATER MAIN FROM SERVICE. HE WILL ARRANGE WORK AND MATERIALS IN ADVANCE SO THAT ANY WATER MAIN WILL BE OUT OF SERVICE A MINIMUM PERIOD OF TIME. FOR THIS WORK, THE CONTRACTOR SHALL CONTACT MR. ED TANLEY OF THE CITY OF EAST LIVERPOOL WATER DEPT. AT (216) 385-5050.
WHERE EXISTING PAVEMENT MUST BE REMOVED FOR WATER LINE CONSTRUCTION, PAVEMENT MUST BE REPLACED IN ACCORDANCE WITH THE DETAIL AS PROVIDED ON THE PLANS. PAVEMENT NEED ONLY BE REPLACED IN THE AREAS WHERE PAVEMENT IS TO REMAIN. PAYMENT FOR THIS ITEM SHALL BE INCLUDED WITH THE PAY ITEM FOR WHICH THIS WORK IS ASSOCIATED.

ITEM 814 - WATER MAIN
ALL NEW WATER MAINS SHALL BE DUCTILE IRON PIPE WITH DUCTILE IRON FITTINGS. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 814.
ALL BURIED PIPE SHALL HAVE PUSH-ON TYPE JOINTS, EXCEPT AS SHOWN OTHERWISE ON THE PLANS.
WHERE THE PLANS PROVIDE FOR THE PROPOSED WATER MAIN TO CROSS EITHER OVER OR UNDER AN EXISTING PIPE, OR FOR THE PROPOSED PIPE TO BE CONNECTED TO EXISTING PIPE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED PIPE.
THE SIZE OF THE WATERMAIN FITTINGS HAVE BEEN NOTED ON THE PLANS TO SHOW THE OVERALL INTENT OF THE PIPING SYSTEM. ANY AND ALL FITTINGS NECESSARY TO MAKE A COMPLETE AND OPERATIVE WATER DISTRIBUTION SYSTEM ARE TO BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT FOR THE PERTINENT ITEM 814 " WATER MAIN ".

ITEM 814 - VALVES AND BOXES
VALVES SHALL BE METROPOLITAN TYPE ARRANGED TO OPEN BY TURNING RIGHT, CLOCKWISE, AND AN ARROW ON THE WRENCH NUT SHALL SHOW THE DIRECTION OF TURN TO OPEN.
ALL NEW VALVES SHALL BE A COMPRESSION RESILIANT SEAT TYPE VALVE, MODEL NO. CRS-80 AS MANUFACTURED BY AMERICAN-DARLING VALVE, A DIVISION OF AMERICAN CAST IRON PIPE COMPANY *OR APPROVED EQUAL*.

ITEM 814- FIRE HYDRANTS
ALL NEW FIRE HYDRANTS SHALL BE MADE IN ACCORDANCE WITH AWWA SPECIFICATION C-502.
THE BARREL SHALL BE SO DESIGNED THAT ALL WORKING PARTS INCLUDING MAIN VALVE SEAT AND DRAIN VALVES AND DRAIN VALVE SEATS CAN BE REMOVED THROUGH THE TOP OF THE BARREL WITHOUT EXCAVATING OR DISTURBING THE GROUND AROUND THE HYDRANT. LOWER BARREL SHALL BE CONSTRUCTED OF DUCTILE IRON.
THE HYDRANTS SHALL HAVE ONE 4-1/2 INCH OPENING AND TWO 2-1/2 INCH OPENINGS.
BARREL OF HYDRANT SHALL BE MADE IN TWO SECTIONS WITH FLANGE AT GROUND LINE. THIS FLANGE WILL BE BOLTED WITH BREAKABLE BOLTS.
ALL NEW FIRE HYDRANTS SHALL BE MODEL NO. B-62-B AS MANUFACTURED BY AMERICAN-DARLING VALVE, A DIVISION OF AMERICAN CAST IRON PIPE CO *OR APPROVED EQUAL*.

ITEM 814-*COPPER* SERVICE BRANCHES
ALL NEW SERVICE BRANCH CONSTRUCTION SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 814, SUBSECTION 814.16.
EXISTING SERVICE BRANCHES HAVE BEEN SHOWN ON THE DRAWINGS IN AN APPROXIMATE LOCATION. THE CONTRACTOR SHALL LOCATE AND VERIFY EXISTING SERVICE BRANCHES TO REMAIN AS TO LINE AND GRADE BEFORE PROCEEDING WITH CONSTRUCTION.
ALL NEW SERVICE BRANCHES SHALL CONSIST OF THE INSTALLATION OF ALL PIPE AND SERVICE STOP VALVES AS REQUIRED FOR A COMPLETE AND OPERABLE WATER SUPPLY SYSTEM.
THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF EAST LIVERPOOL WATER DEPARTMENT AND THE WATER SERVICE CUSTOMER BEFORE PROCEEDING WITH ANY WORK REQUIRED FOR THE REPAIR AND/OR REPLACEMENT OF ANY SERVICE BRANCH.
THE SIZE AND QUANTITY OF SERVICE BRANCH CONSTRUCTION SHALL BE AS SHOWN ON THE DRAWINGS AND AS NOTED IN THE QUANTITY SUMMARIES.
THE WORK INCLUDED IN THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER LINEAR FOOT "*ITEM 814-COPPER* SERVICE BRANCH" WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR FURNISHING ALL OF LABOR, MATERIAL, TOOLS AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM IN PLACE.

ITEM 814 - WATER MAIN ON STRUCTURE AS PER PLAN
THIS ITEM CONSISTS OF FURNISHING AND INSTALLING A TEN INCH WATER MAIN INCLUDING COUPLINGS, SPECIALS, INSULATION, JACKETING AND PIPE SUPPORT ASSEMBLIES AND ALL APPURTENANCES AS SHOWN ON THE CONTRACT DRAWINGS.
WATER MAIN PIPING MATERIAL SHALL BE ASTM A-53, GRADE B SEAMLESS STEEL PIPE.
WATER MAIN EXTERIOR JACKETING SHALL BE ASTM A528 WITH G-90 GALVANIZING. JACKETING SHALL BE SO CONSTRUCTED TO MAINTAIN A WEATHER-TIGHT CLOSURE THROUGH THE ENTIRE LENGTH OF THE STRUCTURE.
WATER MAIN INSULATION SHALL BE A MINIMUM 2 INCH THICKNESS OF RIGID FIBERGLASS. INSULATION SHALL BE SUPPLIED AND INSTALLED IN FACTORY PRODUCED LENGTHS AND SHALL BE FASTENED TO THE PIPE INDEPENDENT OF THE EXTERIOR JACKETING MATERIAL.
ALL COUPLINGS AND OTHER FASTENING DEVICES SHALL BE SUPPLIED AND INSTALLED AS NOTED ON THE PLANS.

ALL MISCELLANEOUS STEEL SUPPORT ITEMS SHALL BE ASTM A-36 STEEL, AND ITEMS TO BE GALVANIZED SHALL BE HOT DIP GALVANIZED TO A "G-90" COATING.
PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER LINEAR FOOT FOR "ITEM 814 - WATER MAIN ON STRUCTURE (AS PER PLAN)" OF THE SIZES SHOWN, WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR THE FURNISHING OF ALL LABOR, MATERIALS, SMALL TOOLS AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 814 - PLUG EXISTING WATER MAIN
THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A PLUG ON AN EXISTING WATER MAIN. THIS SHALL INCLUDE ALL EXCAVATION, REACTION BACKING, BACKFILL AND PAVEMENT REPLACEMENT (IF REQUIRED).
ALL WORK ASSOCIATED WITH THIS ITEM SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 814.

THE WORK INCLUDED IN THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH "ITEM 814 - PLUG EXISTING WATER MAIN" WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR FURNISHING OF ALL LABOR, MATERIALS, SMALL TOOLS AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM IN PLACE.

~~ITEM 814 - FIRE HYDRANT REMOVED AND STORED~~
~~THIS ITEM SHALL CONSIST OF THE REMOVAL AND PROTECTED STORAGE OF EXISTING FIRE HYDRANTS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 814, SUBSECTION 814.15 EXCEPT THAT HYDRANTS SHALL BE STORED ON SITE FOR REUSE OR PARTS FOR THE CITY OF EAST LIVERPOOL WATER DEPARTMENT.~~
~~THE CONTRACTOR SHALL PROVIDE ADEQUATE STORAGE FOR THE HYDRANTS AND SHALL RELEASE THEM TO THE CITY WATER DEPARTMENT FOR PICK-UP.~~
~~THE WORK INCLUDED IN THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH "ITEM 814 - FIRE HYDRANT REMOVED AND STORED" WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR FURNISHING OF ALL LABOR, MATERIALS, SMALL TOOLS AND EQUIPMENT TO COMPLETE THIS ITEM.~~

~~ITEM 814 - VALVE REMOVED AND STORED~~
~~THIS WORK CONSISTS OF THE REMOVAL AND STORAGE OF EXISTING VALVES WHICH RECENTLY HAVE BEEN PUT INTO SERVICE. ONLY SPECIFIC VALVES NOTED ON THE DRAWINGS ARE TO BE REMOVED.~~
~~EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF SUPPLEMENTAL SPECIFICATION 814. PAVEMENT REPLACEMENT (IF REQUIRED) SHALL BE AS DETAILED ON THE DRAWINGS.~~
~~THE CONTRACTOR SHALL PROVIDE ADEQUATE STORAGE FOR THE VALVES AND SHALL RELEASE THEM TO THE CITY WATER DEPARTMENT FOR PICK-UP.~~

VOID

GENERAL NOTES (WATERLINE)

38720

CALC. BY E.C. DATE 6-23-82
CHK'D BY M.D. DATE 11-9-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL - 30 - 35.29

304 AGGREGATE BASE — CU. YDS.

LOCATION		CALCULATIONS	QUANTITY
EASTBOUND ROADWAY			
980+00.00 TO 996+85.02		1,685.02'X 27.13'X 5.000''X 1/324	705.47
999+21.80 TO 1004+00.00		478.20'X 27.13'X 5.000''X 1/324	200.21
1004+00.00 TO 1010+50.00		650.00'X 26.63'X 5.000''X 1/324	267.12
~~1007+00.00 TO 1010+50.00~~	(E.B. SHOULDER)	350.00' X 7.50' X 5.000'' X 1/324	40.31
EASTBOUND SHOULDER			
980+00.00 TO 996+85.02		1,685.02'X 7.50'X 5.000''X 1/324	195.03
~~999+21.80~~ TO 1004+00.00		478.20'X 7.50'X 5.000''X 1/324	55.35
EASTBOUND MEDIAN SHOULDER			
956+00.00 TO 962+00.00		600.00' X 5.00'X 6.000''X 1/324	55.56
980+00.00 TO 980+46.85		46.85'X 6.00'X 5.000''X 1/324	4.34
980+46.85 TO 981+06.85	TAPER 6.00 TO 7.50	60.00'X 6.75'X 5.000''X 1/324	6.25
981+06.85 TO 996+85.02		1,578.17'X 7.50'X 5.000''X 1/324	182.66
999+21.80 TO 999+48.00		26.20'X 7.50'X 5.000''X 1/324	3.03
999+48.00 TO 999+88.00	TAPER 7.50 TO 6.50	40.00'X 7.00 X 5.000''X 1/324	4.32
999+88.00 TO 999+98.00		10.00'X 6.50'X 5.000''X 1/324	1.00
999+98.00 TO 1000+48.00	TAPER 6.50 TO 7.50	40.00'X 7.00'X 5.000''X 1/324	4.32
1000+48.00 TO 1010+50.00		1,002.00'X 7.50'X 5.000''X 1/324	115.97
RAMP M ROADWAY			
992+83.26 TO 993+43.26		60.00'X 30.00'X 5.000''X 1/324	27.78
NW SPANDREL SECOND & RAMP M		5.000''X 134.13 S.F. X 1/324	2.07
NE SPANDREL SECOND & RAMP M		5.000''X 772.50 S.F. X 1/324	11.92
* 993+43.26 TO 994+24.58		97.07'X 30.00'X 5.000''X 1/324	44.94
994+24.58 TO 994+34.58		10.00'X 32.00'X 5.000''X 1/324	4.93
994+34.58 TO 996+98.87		264.29' X 14.170 S.F. X 1/27	138.70
999+25.23 TO 1002+60.00		334.77' X 14.170 S.F. X 1/27	175.69
1002+60.00 TO 1004+00.00	TAPER 34' TO 28.33'	140.00' X 12.980 S.F. X 1/27	67.30
1004+00.00 TO 1004+68.27	TAPER 46.33' TO 40.55'	68.27' X 16.900 S.F. X 1/27	28.56
1004+68.27 TO 1007+00.00	TAPER 44.55' TO 35.00'	231.73'X 39.78'X 5.000''X 1/324	142.26
RAMP M ACCEL LANE			
1007+00.00 TO 1010+50.00	TAPER 25' TO 16.25'	350.00'X 20.63'X 5.000''X 1/324	111.40
RAMP M ACCEL LANE SHOULDER			
1007+00.00 TO 1010+50.00		350.00'X 9.25'X 5.000''X 1/324	49.96
WESTBOUND ROADWAY			
980+00.00 TO 981+50.00		150.00'X 27.54'X 5.000''X 1/324	63.75
981+50.00 TO 987+50.00	TAPER 27.54' TO 39.54'	600.00'X 33.54'X 5.000''X 1/324	310.56
987+50.00 TO 996+05.89		855.89'X 39.54'X 5.000''X 1/324	522.25
996+05.89 TO 996+85.02		79.13'X 36.92'X 5.000''X 1/324	45.08
999+21.80 TO 1003+00.57		378.77'X 36.92'X 5.000''X 1/324	215.77
1003+00.57 TO 1010+50.00		749.43'X 39.54'X 5.000''X 1/324	457.29
WESTBOUND SHOULDER			
980+00.00 TO 996+05.89		1,605.89'X 7.50'X 5.000''X 1/324	185.87
1003+00.57 TO 1010+50.00		749.43'X 7.50'X 5.000''X 1/324	86.74
WESTBOUND MEDIAN SHOULDER			
956+00.00 TO 962+00.00		600.00' X 5.00'X 6.000''X 1/324	55.56
980+00.00 TO 980+46.85		46.85'X 6.00'X 5.000''X 1/324	4.34
980+46.85 TO 981+06.85	TAPER 6.00 TO 7.50	60.00'X 6.75'X 5.000''X 1/324	6.25
981+06.85 TO 996+85.02		1,578.17'X 7.50'X 5.000''X 1/324	182.66
999+21.80 TO 999+48.00		26.20'X 7.50'X 5.000''X 1/324	3.03
999+48.00 TO 999+88.00	TAPER 7.50 TO 6.50	40.00'X 7.00'X 5.000''X 1/324	4.32
999+88.00 TO 999+98.00		10.00'X 6.50'X 5.000''X 1/324	1.00
999+98.00 TO 1000+48.00	TAPER 6.50 TO 7.50	40.00'X 7.00'X 5.000''X 1/324	4.32
1000+48.00 TO 1010+50.00		1002.00'X 7.50'X 5.000''X 1/324	115.97
RAMP O ROADWAY			
21+17.65 TO 21+53.22	THIRD ST STATIONS	35.57' X 14.720 S.F. X 1/27	19.00
992+14.17 TO 995+14.17		300.00' X 12.640 S.F. X 1/27	140.44
995+14.17 TO 996+18.12		103.95' X 10.560 S.F. X 1/27	40.66
RAMP O DECEL LANE			
996+18.12 TO 996+66.00		5.000''X 2151.00 S.F. X 1/324	33.19
999+13.50 TO 1003+00.57		387.07'X 9.13'X 5.000''X 1/324	54.54
RAMP O LEFT SHOULDER			
21+17.65 TO 21+53.22	THIRD ST STATIONS	35.57'X 5.50'X 5.000''X 1/324	3.02
992+14.17 TO 995+18.12		303.95'X 5.50'X 5.000''X 1/324	25.80
995+18.12 TO 996+18.12		100.00'X 6.50'X 5.000''X 1/324	10.03
RAMP O DECEL LANE SHOULDER			
996+18.12 TO 996+66.00		47.88'X 7.50'X 5.000''X 1/324	5.54
999+13.50 TO 1003+00.57		387.07'X 7.50'X 5.000''X 1/324	44.80
SECOND ST			
NE SPANDREL SECOND & JACKSON		5.000''X 774.90 S.F. X 1/324	11.96
SE SPANDREL SECOND & JACKSON		5.000''X 120.25 S.F. X 1/324	1.86
10+24.00 TO 10+84.08		60.08'X 36.00'X 5.000''X 1/324	33.38
10+84.08 TO 33+30.64		2,246.56'X 36.00'X 5.000''X 1/324	1,248.09
WESTSIDE RR TRACKS		5.000''X 1644.48 S.F. X 1/324	25.38
EASTSIDE RR TRACKS		5.000''X 932.40 S.F. X 1/324	14.39
34+13.73 TO 35+81.15	TAPER 36' TO 24.5'	167.42'X 30.25'X 5.000''X 1/324	78.16
THIRD ST			
NE SPANDREL THIRD & JACKSON		5.000''X 344.00 S.F. X 1/324	5.31
SE SPANDREL THIRD & JACKSON		5.000''X 21.40 S.F. X 1/324	0.33
10+18.00 TO 10+58.06		40.06'X 36.00'X 5.000''X 1/324	22.26
10+58.06 TO 19+66.57		908.51'X 36.00'X 5.000''X 1/324	504.73
19+66.57 TO 20+06.36	TAPER 36' TO 30'	39.79'X 33.00'X 5.000''X 1/324	20.26
20+06.36 TO 21+17.65		111.29'X 30.00'X 5.000''X 1/324	51.52
RELOC THIRD ST			
10+15.00 TO 10+18.20		3.20'X 36.30'X 5.000''X 1/324	1.79
10+18.20 TO 10+76.12	TAPER 36.3' TO 24'	57.92'X 30.15'X 5.000''X 1/324	26.95
10+76.12 TO 12+86.86		210.74'X 24.00'X 5.000''X 1/324	78.05
12+86.86 TO 13+45.02	TAPER 24' TO 23.2'	58.16'X 23.60'X 5.000''X 1/324	21.18
13+45.02 TO 13+50.00		4.98'X 23.20'X 5.000''X 1/324	1.78

JACKSON ST

48+50.00 TO 50+18.00		168.00'X 36.00'X 5.000''X 1/324	93.33
50+18.00 TO 50+43.62		25.62'X 48.00'X 5.000''X 1/324	18.98
BRIDGE OVER MAINLINE FROM STA 50+43.62 TO STA 52+84.12			
52+84.12 TO 53+59.98		75.86'X 48.00'X 5.000''X 1/324	56.19
53+59.98 TO 53+83.80		23.82'X 43.23'X 5.000''X 1/324	19.89
53+83.80 TO 54+39.00	TAPER 43.23' TO 42'	55.20'X 42.11'X 5.000''X 1/324	35.87
54+39.00 TO 54+65.00		5.000''X 70.00 S.F. X 1/324	1.08
SPANDREL AREA		5.000''X 9.27 S.F. X 1/324	0.14
54+43.15 TO 54+50.00	TAPER 24.31' TO 24'	6.85'X 24.15'X 5.000''X 1/324	2.55

MARKET ST

NE SPANDREL THIRD & MARKET		5.000''X 86.00 S.F. X 1/324	1.33
NW SPANDREL THIRD & MARKET		5.000''X 85.70 S.F. X 1/324	1.32
49+00.00 TO 49+82.00		82.00'X 39.90'X 5.000''X 1/324	50.49
53+59.98 TO 54+12.50		52.52'X 36.00'X 5.000''X 1/324	29.18
SW SPANDREL SECOND & MARKET		5.000''X 134.50 S.F. X 1/324	2.08
SE SPANDREL SECOND & MARKET		5.000''X 133.75 S.F. X 1/324	2.06

WASHINGTON ST

SE SPANDREL FOURTH & WASHINGTON		5.000''X 133.75 S.F. X 1/324	2.06
SW SPANDREL FOURTH & WASHINGTON		5.000''X 85.20 S.F. X 1/324	1.31
46+76.96 TO 48+97.88		220.92'X 36.00'X 5.000''X 1/324	122.73
48+97.88 TO 49+88.00	(BY PLANIMETER)	5.000''X 4020.00 S.F. X 1/324	62.04
SW SPANDREL SECOND & WASHINGTON		5.000''X 132.00 S.F. X 1/324	2.04
SE SPANDREL SECOND & WASHINGTON		5.000''X 133.75 S.F. X 1/324	2.06
53+59.98 TO 54+12.50		52.52'X 31.72'X 5.000''X 1/324	25.71

BROADWAY

43+10.87 TO 44+50.00	LT & RT	139.13'X 12.00'X 5.000''X 1/324	25.76
44+50.00 TO 47+80.37		330.37'X 52.00'X 5.000''X 1/324	265.11
47+80.37 TO 48+93.71		113.34'X 40.00'X 5.000''X 1/324	69.96
NE SPANDREL SECOND & BROADWAY		5.000''X 598.75 S.F. X 1/324	9.24
RIGHT TURN LANE (BY PLANIMETER)		5.000''X 2664.00 S.F. X 1/324	41.11

RIVER RD

3+23.48 TO 3+97.24		73.76'X 28.00'X 5.000''X 1/324	31.87
SE SPANDREL RIVER & SECOND		5.000''X 168.75 S.F. X 1/324	2.60
SW SPANDREL RIVER & SECOND		5.000''X 164.00 S.F. X 1/324	2.53
2+45.00 TO 3+23.48		78.48'X 26.00'X 5.000''X 1/324	31.48
WEST FIRST ST			
~~45+24.59 TO 45+62.00~~		37.41' x 25.00' x 7.000'' x 1/324	20.21
45+62.00 TO 49+37.83		375.83'X 25.00'X 7.000''X 1/324	203.00
BY PLANIMETER		7.000''X 981.33 S.F. X 1/324	21.20

304 AGGREGATE BASE — TOTAL 8702.49 CU. YDS.

310 SUBBASE TYPE II — CU. YDS.

LOCATION		CALCULATIONS	QUANTITY
EASTBOUND MEDIAN SHOULDER			
980+00.00 TO 980+46.85		46.85' X 2.930 S.F. X 1/27	5.08
980+46.85 TO 981+06.85		60.00' X 3.270 S.F. X 1/27	7.26
981+06.85 TO 999+21.80		1,578.17' X 3.600 S.F. X 1/27	210.42
999+21.80 TO 999+30.00		8.20' X 2.990 S.F. X 1/27	0.91
999+30.00 TO 999+70.00		40.00' X 3.270 S.F. X 1/27	4.84
999+70.00 TO 1010+50.00		1,080.00' X 3.600 S.F. X 1/27	144.00
WESTBOUND MEDIAN SHOULDER			
980+00.00 TO 980+46.85		46.85' X 3.220 S.F. X 1/27	5.58
980+46.85 TO 981+06.85		60.00' X 3.520 S.F. X 1/27	7.82
981+06.85 TO 996+85.02		1,578.17' X 3.900 S.F. X 1/27	227.96
999+21.80 TO 999+30.00		8.20' X 3.300 S.F. X 1/27	1.00
999+30.00 TO 999+70.00		40.00' X 3.570 S.F. X 1/27	5.29
999+70.00 TO 1010+50.00		1,080.00' X 3.900 S.F. X 1/27	156.00
EASTBOUND SHOULDER			
980+00.00 TO 996+85.02		1,685.02' X 3.980 S.F. X 1/27	248.38
999+21.80 TO 1004+00.00		478.20' X 3.980 S.F. X 1/27	70.49
1007+00.00 TO 1010+50.00		350.00' X 4.660 S.F. X 1/27	60.41
WESTBOUND SHOULDER			
980+00.00 TO 996+05.89		1,605.89' X 3.610 S.F. X 1/27	214.71
1003+00.57 TO 1010+50.00		749.43' X 3.610 S.F. X 1/27	100.20
RAMP O LEFT SHOULDER			
21+17.65 TO 21+53.22	(THIRD ST STATIONS)	35.57' X 2.530 S.F. X 1/27	3.33
992+14.17 TO 995+18.12		303.95' X 2.530 S.F. X 1/27	28.48
995+18.12 TO 996+18.12		100.00' X 3.070 S.F. X 1/27	11.37
RAMP O DECEL LANE SHOULDER			
996+18.12 TO 996+66.00		47.88' X 3.610 S.F. X 1/27	6.40
999+13.50 TO 1003+00.57		387.07' X 3.610 S.F. X 1/27	51.75
FIRST ST			
45+24.59 TO 45+62.23		37.64'X 25.00'X 5.000''X 1/324	
45+62.23 TO 49+37.83		375.60'X 25.00'X 5.000''X 1/324	144.91
BY PLANIMETER		5.000''X 981.33 S.F. X 1/324	15.14

310 SUBBASE TYPE II — TOTAL 1,571.68 CU. YDS.

305 CONCRETE BASE (9" THICKNESS)

MEDIAN			
956+00.00 TO 963+50.00	698.00'X	6.00' X 1/9	465.33

TOTAL 466 S.Y.

COMPUTATIONS

CALC. BY E.C. DATE 11-18-82
CHK'D BY W.D. DATE 12-14-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL - 30 - 35.29

301 BITUMINOUS AGGREGATE BASE — CU. YDS.

LOCATION		CALCULATIONS	QUANTITY
EASTBOUND ROADWAY			
963+50.00 TO 968+80.00		530.00'X 37.00'X 9.000''X 1/324	544.72
968+80.00 TO 972+30.97		350.97'X 24.50'X 9.000''X 1/324	238.85
972+30.97 TO 980+00.00		769.03'X 25.00'X 9.000''X 1/324	534.05
980+00.00 TO 996+85.02		478.20'X 25.00'X 9.000''X 1/324	332.08
999+21.80 TO 1004+00.00		300.00'X 24.50'X 9.000''X 1/324	204.17
1004+00.00 TO 1007+00.00		350.00'X 24.50'X 9.000''X 1/324	238.19
1007+00.00 TO 1010+50.00		1,685.02'X 25.00'X 9.000''X 1/324	1170.16
EASTBOUND SHOULDER			
963+50.00 TO 968+80.00		530.00' X 2.910 S.F. X 1/27	57.12
972+30.97 TO 980+00.00		769.03' X 2.910 S.F. X 1/27	82.88
980+00.00 TO 996+85.02		1,685.02'X 8.00'X 3.000''X 1/324	124.82
999+21.80 TO 1004+00.00		478.20'X 8.00'X 3.000''X 1/324	35.42
EASTBOUND MEDIAN SHOULDER			
956+00.00 TO 962+00.00		600.00' X 5.00'X 3.000' X 1/324	27.78
963+50.00 TO 963+92.50	TAPER 5' TO 8'	42.50' X 2.380 S.F. X 1/27	3.75
963+92.50 TO 979+22.74		1,530.24' X 2.910 S.F. X 1/27	164.93
979+22.74 TO 979+82.74	TAPER 8' TO 6.5'	60.00' X 2.650 S.F. X 1/27	5.89
979+82.74 TO 980+00.00		17.26' X 2.390 S.F. X 1/27	1.53
980+00.00 TO 980+46.85		46.85'X 6.50'X 3.000''X 1/324	2.82
980+46.85 TO 981+06.85	TAPER 6.5' TO 8'	60.00'X 7.25'X 3.000''X 1/324	4.03
981+06.85 TO 996+85.02		1,578.17'X 8.00'X 3.000''X 1/324	116.90
999+21.80 TO 999+30.00		8.20'X 7.00'X 3.000''X 1/324	0.53
999+30.00 TO 999+70.00	TAPER 7' TO 8'	40.00'X 7.50'X 3.000''X 1/324	2.78
999+70.00 TO 1010+50.00		1,080.00'X 8.00'X 3.000''X 1/324	80.00
1010+50.00 TO 1014+12.00		362.00'X 8.00'X 3.000''X 1/324	26.82
WESTBOUND ROADWAY			
963+50.00 TO 972+00.00		850.00'X 24.50'X 9.000''X 1/324	578.47
972+00.00 TO 981+50.00		950.00'X 25.00'X 9.000''X 1/324	659.72
981+50.00 TO 987+50.00	TAPER 25.0 TO 37.0	600.00'X 31.00'X 9.000''X 1/324	516.66
987+50.00 TO 996+05.89		855.89'X 37.00'X 9.000''X 1/324	879.66
996+05.89 TO 996+85.02		79.13'X 36.50'X 9.000''X 1/324	80.23
999+21.80 TO 1003+00.57		378.77'X 36.50'X 9.000''X 1/324	384.03
1003+00.57 TO 1010+50.00		749.43'X 37.00'X 9.000''X 1/324	770.24
WESTBOUND SHOULDER			
973+73.50 TO 980+00.00		626.50' X 2.910 S.F. X 1/27	67.52
980+00.00 TO 996+05.89		1,605.89'X 8.00'X 3.000''X 1/324	118.95
1003+00.57 TO 1010+50.00		749.43'X 8.00'X 3.000''X 1/324	55.51
WESTBOUND MEDIAN SHOULDER			
956+00.00 TO 962+00.00		600.00' X 8.00'X 3.000''X 1/324	44.44
963+50.00 TO 963+92.50	TAPER 5' TO 8'	42.50' X 2.380 S.F. X 1/27	3.75
963+92.50 TO 979+22.74		1,530.24' X 2.910 S.F. X 1/27	164.93
979+22.74 TO 979+82.74	TAPER 8' TO 6.5'	60.00' X 2.650 S.F. X 1/27	5.89
979+82.74 TO 980+00.00		17.26' X 2.390 S.F. X 1/27	1.53
980+00.00 TO 980+46.85		46.85'X 6.50'X 3.000''X 1/324	2.82
980+46.85 TO 981+06.85	TAPER 6.5' TO 8'	60.00'X 7.25'X 3.000''X 1/324	4.03
981+06.85 TO 996+85.02		1,578.17'X 8.00'X 3.000''X 1/324	116.90
999+21.80 TO 999+30.00		8.20'X 7.00'X 3.000''X 1/324	0.53
999+30.00 TO 999+70.00	TAPER 7' TO 8'	40.00'X 7.50'X 3.000''X 1/324	2.78
999+70.00 TO 1010+50.00		1,080.00'X 8.00'X 3.000''X 1/324	80.00
1010+50.00 TO 1014+12.00		362.00'X 8.00'X 3.000''X 1/324	26.82
RAMP L ROADWAY			
972+00.00 TO 979+34.74		734.74'X 17.00'X 9.000''X 1/324	346.96
979+34.74 TO 979+43.65		8.91'X 19.50'X 9.000''X 1/324	4.82
979+43.65 TO 979+74.69		31.04'X 22.00'X 9.000''X 1/324	18.97
NW SPANDREL THIRD & JACKSON		0.750''X 342.60 S.F. X 1/324	0.79
SW SPANDREL THIRD & JACKSON		0.750''X 134.50 S.F. X 1/324	0.31
RAMP L NOSE AREA			
972+00.00 TO 973+75.00		175.00' X 6.000 S.F. X 1/27	38.89
RAMP L ACCEL LANE			
962+00.00 TO 972+00.00	TAPER 2.50 TO 25.50	1,000.00'X 14.00'X 9.000''X 1/324	388.89
RAMP L ACCEL LANE SHOULDER			
962+00.00 TO 972+00.00		1,000.00' X 2.910 S.F. X 1/27	107.78
RAMP L RIGHT SHOULDER			
973+75.00 TO 979+43.65		568.65' X 1.060 S.F. X 1/27	22.36
RAMP L LEFT SHOULDER			
972+00.00 TO 973+00.00	TAPER 8' TO 6'	100.00' X 2.560 S.F. X 1/27	9.48
973+00.00 TO 978+79.86		579.86' X 2.160 S.F. X 1/27	46.39
978+79.86 TO 979+34.74	TAPER 6' TO 3'	54.88' X 1.640 S.F. X 1/27	3.33
RAMP M ROADWAY			
NW SPANDREL SECOND & RAMP M		9.000''X 134.13 S.F. X 1/324	3.73
NE SPANDREL SECOND & RAMP M		9.000''X 772.50 S.F. X 1/324	21.46
992+83.26 TO 993+43.26		60.00'X 30.00'X 9.000''X 1/324	50.00
* 993+43.26 TO 994+24.58		97.07'X 36.00'X 9.000''X 1/324	80.89
994+24.58 TO 994+34.58	TAPER 30' TO 33'	10.00'X 31.50'X 9.000''X 1/324	8.75
994+34.58 TO 996+98.87		264.29'X 33.50'X 9.000''X 1/324	245.93
BRIDGE OVER BROADWAY FROM STA 996+98.87 TO STA 999+25.23			
999+25.23 TO 1002+60.00		334.77'X 33.50'X 9.000''X 1/324	311.52
1002+60.00 TO 1004+00.00	TAPER 33 TO 28.34	140.00'X 31.17'X 9.000''X 1/324	121.21
1004+00.00 TO 1004+68.27	TAPER 39 TO 35.81	68.27'X [37.41]'X 9.000''X 1/324	70.94
1004+68.27 TO 1007+00.00	TAPER 35.81 TO 25.00	231.73'X [30.41]'X 9.000''X 1/324	195.75
RAMP M ACCEL LANE			
1007+00.00 TO 1010+50.00	TAPER 25 TO 16.25	350.00'X 21.37'X 9.000''X 1/324	207.76
RAMP M ACCEL LANE SHOULDER			
1007+00.00 TO 1010+50.00		350.00'X 10.00'X 3.000''X 1/324	32.41
RAMP N ROADWAY			
972+30.97 TO 973+30.97	TAPER 28' TO 26'	100.00'X 27.00'X 9.000''X 1/324	75.00
973+30.97 TO 976+50.00		319.03'X 26.00'X 9.000''X 1/324	230.41
976+50.00 TO 978+00.00	TAPER 26' TO 34'	150.00'X 30.00'X 9.000''X 1/324	125.00
978+00.00 TO 980+15.87		215.87'X 34.00'X 9.000''X 1/324	203.88
980+15.87 TO 980+19.29		3.42'X 28.00'X 9.000''X 1/324	2.66
980+19.29 TO 980+45.07		25.78'X 24.00'X 9.000''X 1/324	17.19
NW SPANDREL RAMP N & JACKSON		9.000''X 139.13 S.F. X 1/324	3.86
SW SPANDREL RAMP N & JACKSON		9.000''X 134.13 S.F. X 1/324	3.73
RAMP N DECEL LANE			
INPUT CALC. 968+80 TO 972+30.97		9.000''X 7624.08 S.F. X 1/324	211.78
(SHOULDER) 968+80 TO 972+30.97		350.97'X 8.50'X 9.000''X 1/324	82.86
RAMP O ROADWAY			
21+17.65 TO 21+53.22	THIRD ST STATIONS	35.57'X 27.00'X 9.000''X 1/324	26.67
992+14.17 TO 995+14.17	TAPER 26' TO 16'	300.00'X 22.00'X 9.000''X 1/324	183.33
995+14.17 TO 996+18.12		103.95'X 17.00'X 9.000''X 1/324	49.09
RAMP O DECEL LANE			
STA996+18.12 996+66		9.000''X 2056.75 S.F. X 1/324	57.19
999+13.50 TO 1003+00.57	RAMP O STATIONS	387.07'X 7.00'X 9.000''X 1/324	75.26
RAMP O RIGHT SHOULDER			
21+17.65 TO 21+53.22		35.57'X 3.00'X 3.000''X 1/324	0.99
992+14.17 TO 996+18.12		403.95'X 3.00'X 3.000''X 1/324	11.22
RAMP O LEFT SHOULDER			
996+18.12 TO 996+66.00		47.88'X 8.00'X 3.000''X 1/324	3.55
999+13.50 TO 1003+00.57		387.07'X 8.00'X 3.000''X 1/324	28.67
21+17.65 TO 21+53.22	THIRD ST STATIONS	35.57'X 6.00'X 3.000''X 1/324	1.98
992+14.17 TO 995+18.12		303.95'X 6.00'X 3.000''X 1/324	16.89
995+18.12 TO 996+18.12	TAPER 6' TO 8'	100.00'X 7.00'X 3.000''X 1/324	6.48
SECOND ST			
NE SPANDREL SECOND & JACKSON		5.000''X 774.90 S.F. X 1/324	11.96
SE SPANDREL SECOND & JACKSON		5.000''X 120.25 S.F. X 1/324	1.86
10+24.00 TO 10+84.08		60.08'X 36.00'X 5.000''X 1/324	33.38
10+84.08 TO 33+30.64		2,246.56'X 36.00'X 5.000''X 1/324	1,248.09
WESTSIDE RR TRACKS		5.000''X 1644.48 S.F. X 1/324	25.38
EASTSIDE RR TRACKS		5.000''X 932.40 S.F. X 1/324	14.39
34+13.73 TO 35+81.15	TAPER 36' TO 24.5'	167.42'X 31.25'X 5.000''X 1/324	80.74
THIRD ST			
NE SPANDREL THIRD & JACKSON		5.000''X 344.00 S.F. X 1/324	5.31
SE SPANDREL THIRD & JACKSON		5.000''X 21.40 S.F. X 1/324	0.33
10+18.00 TO 10+58.06		40.06'X 36.00'X 5.000''X 1/324	22.26
10+58.06 TO 19+66.57		908.51'X 36.00'X 5.000''X 1/324	504.73
19+66.57 TO 20+06.36	TAPER 36' TO 30'	39.79'X 33.00'X 5.000''X 1/324	20.26
20+06.36 TO 21+17.65		111.29'X 30.00'X 5.000''X 1/324	51.52
RELOC THIRD ST			
10+15.00 TO 10+18.20		3.20'X 36.30'X 5.000''X 1/324	1.79
10+18.20 TO 10+76.12	TAPER 36.3' TO 24'	57.92'X 30.15'X 5.000''X 1/324	26.99
10+76.12 TO 12+86.86		210.74'X 24.00'X 5.000''X 1/324	78.05
12+86.86 TO 13+45.02	TAPER 24' TO 23.2'	58.16'X 23.60'X 5.000''X 1/324	21.18
13+45.02 TO 13+50.00		4.98'X 23.20'X 5.000''X 1/324	1.78
JACKSON ST			
48+50.00 TO 50+18.00		168.00'X 36.00'X 5.000''X 1/324	93.33
50+18.00 TO 50+43.62		25.62'X 48.00'X 5.000''X 1/324	18.98
BRIDGE OVER MAINLINE FROM STA 50+43.62 TO STA 52+84.12			
52+84.12 TO 53+59.98		75.86'X 48.00'X 5.000''X 1/324	56.19
53+59.98 TO 53+83.80		23.82'X 43.23'X 5.000''X 1/324	15.89
53+83.80 TO 54+39.00	TAPER 43.23' TO 42'	55.20'X 42.11'X 5.000''X 1/324	35.87
54+39.00 TO 54+65.00		5.000''X 70.00 S.F. X 1/324	1.08
SPANDREL AREA		5.000''X 9.27 S.F. X 1/324	0.14
54+43.15 TO 54+50.00	TAPER 24.31' TO 24'	6.85'X 24.15'X 5.000''X 1/324	2.55
MARKET ST			
NE SPANDREL THIRD & MARKET		5.000''X 86.00 S.F. X 1/324	1.33
NW SPANDREL THIRD & MARKET		5.000''X 85.70 S.F. X 1/324	1.32
49+00.00 TO 53+85.00		485.00'X 39.90'X 5.000''X 1/324	52.34
53+59.98 TO 54+12.50		52.52'X 36.00'X 5.000''X 1/324	29.18
SW SPANDREL SECOND & MARKET		5.000''X 134.50 S.F. X 1/324	2.08
SE SPANDREL SECOND & MARKET		5.000''X 133.75 S.F. X 1/324	2.06
WASHINGTON ST			
SE SPANDREL FOURTH & WASHINGTON		5.000''X 133.75 S.F. X 1/324	2.06
SW SPANDREL FOURTH & WASHINGTON		5.000''X 85.20 S.F. X 1/324	1.31
46+76.96 TO 48+97.88		220.92'X 36.00'X 5.000''X 1/324	122.73
48+97.88 TO 48+98.00 (BY PLANIMETER)		5.000''X 4020.00 S.F. X 1/324	62.04
SW SPANDREL SECOND & WASHINGTON		5.000''X 132.00 S.F. X 1/324	2.04
SE SPANDREL SECOND & WASHINGTON		5.000''X 133.75 S.F. X 1/324	2.06
53+59.98 TO 54+12.50		52.52'X 31.72'X 5.000''X 1/324	25.71
BROADWAY			
43+50.00 TO 44+25.00	AVE WEDGE AREA RT.	75.00' X 3.470 S.F. X 1/27	9.64
44+00.00 TO 44+50.00	AVE WEDGE AREA LT.	50.00' X 1.300 S.F. X 1/27	2.41
43+10.87 TO 44+50.00	LT.	139.13'X 6.00'X 5.000''X 1/324	12.88
42+38.22 TO 44+50.00	RT.	211.78'X 6.00'X 5.000''X 1/324	19.61
44+50.00 TO 47+80.37		330.37'X 52.00'X 5.000''X 1/324	265.11
47+80.37 TO 48+93.71		113.34'X 40.00'X 5.000''X 1/324	69.96
NE SPANDREL SECOND & BROADWAY		5.000''X 598.75 S.F. X 1/324	9.24
RIGHT TURN LANE (BY PLANIMETER)		5.000''X 2664.00 S.F. X 1/324	41.11
RIVER RD			
2+45.00 TO 3+23.48	TAPER 25' TO 28'	78.48'X 27.50'X 5.000''X 1/324	33.30
3+23.48 TO 3+97.24		73.76'X 29.00'X 5.000''X 1/324	33.01
SE SPANDREL RIVER & SECOND		5.000''X 168.75 S.F. X 1/324	2.60
SW SPANDREL RIVER & SECOND		5.000''X 164.00 S.F. X 1/324	2.53
301 BITUMINOUS AGGREGATE BASE		TOTAL	15,504.29 CU. YDS.

COMPUTATIONS

402 ASPHALT CONCRETE - (AC-20) CU. YDS.

LOCATION		CALCULATIONS	QUANTITY
EASTBOUND ROADWAY			
963+50.00 TO 968+80.00		530.00'X 36.00'X 1.750''X 1/324	103.05
968+80.00 TO 996+85.02		2,805.02'X 24.00'X 1.750''X 1/324	363.61
999+21.80 TO 1010+50.00		1,128.20'X 24.00'X 1.750''X 1/324	146.25
WESTBOUND ROADWAY			
963+50.00 TO 972+00.00		850.00'X 24.00'X 1.750''X 1/324	110.19
972+00.00 TO 981+50.00		950.00'X 24.00'X 1.750''X 1/324	123.15
981+50.00 TO 987+50.00	TAPER 24' 36'	600.00'X 30.00'X 1.750''X 1/324	97.22
987+50.00 TO 996+85.02		935.02'X 36.00'X 1.750''X 1/324	181.81
BRIDGE OVER BROADWAY FROM STA 996+85.02 TO STA 999+21.80			
999+21.80 TO 1010+50.00		1,128.20'X 36.00'X 1.750''X 1/324	219.37
RAMP L ROADWAY			
972+00.00 TO 979+34.74		734.74'X 16.00'X 1.750''X 1/324	63.50
979+34.74 TO 979+74.69		1.750''X 1329.70 S.F. X 1/324	7.18
RAMP L ACCEL LANE			
962+00.00 TO 972+00.00	TAPER 2' TO 25'	1,000.00'X 13.50'X 1.750''X 1/324	72.92
RAMP M ROADWAY			
992+83.26 TO 993+43.26		1.750''X 2706.63 S.F. X 1/324	14.62
* 993+43.26 TO 994+24.58		97.07'X 30.00'X 1.750''X 1/324	15.73
994+24.58 TO 994+34.58	TAPER 30' TO 33'	10.00'X 31.50'X 1.750''X 1/324	1.70
994+34.58 TO 996+98.87		264.29'X 33.00'X 1.750''X 1/324	47.11
BRIDGE OVER BROADWAY FROM STA 996+98.87 TO STA 999+25.23			
999+25.23 TO 1002+60.00		334.77'X 33.00'X 1.750''X 1/324	59.67
1002+60.00 TO 1004+00.00	TAPER 33' TO 28.33'	140.00'X 30.67'X 1.750''X 1/324	23.19
1004+00.00 TO 1004+68.27	TAPER 45.33' TO 40.55'	68.27'X 42.94'X 1.750''X 1/324	15.83
1004+68.27 TO 1007+00.00	TAPER 40.55' TO 35'	231.73'X 37.78'X 1.750''X 1/324	47.29
RAMP M ACCEL LANE			
1002+00 TO 1010+50	TAPER 25' TO 16.25'	350.00'X 20.63'X 1.750''X 1/324	39.00
RAMP N ROADWAY			
972+34.84 TO 973+34.84	TAPER 27' TO 25'	100.00'X 26.00'X 1.750''X 1/324	14.04
973+34.84 TO 976+50.00		315.16'X 25.00'X 1.750''X 1/324	42.56
976+50.00 TO 978+00.00	TAPER 25' TO 33'	150.00'X 29.00'X 1.750''X 1/324	23.50
978+00.00 TO 980+15.87		215.87'X 33.00'X 1.750''X 1/324	38.48
980+15.87 TO 980+19.29		3.42'X 27.00'X 1.750''X 1/324	0.50
NW SPANDREL AREA		1.750''X 139.13 S.F. X 1/324	0.75
980+19.29 TO 980+45.07		25.78'X 24.00'X 1.750''X 1/324	3.34
SW SPANDREL AREA		1.750''X 134.13 S.F. X 1/324	0.72
RAMP N DECEL LANE			
INPUT CALC.		1.750''X 7448.80 S.F. X 1/324	40.23
968+80.00 TO 972+30.97		350.97'X 8.00'X 1.750''X 1/324	15.17
RAMP O DECEL LANE			
996+18.12 TO 996+66.00		1.750''X 2022.75 S.F. X 1/324	10.93
999+13.50 TO 1003+00.57		387.07'X 6.50'X 1.750''X 1/324	13.59
RAMP O ROADWAY			
21+17.65 TO 21+53.22	THIRD ST STATIONS	35.57'X 26.00'X 1.750''X 1/324	5.00
992+14.17 TO 995+14.17	TAPER 26' TO 16'	300.00'X 21.00'X 1.750''X 1/324	34.03
995+14.17 TO 996+18.12		103.95'X 16.00'X 1.750''X 1/324	8.98
FIRST ST			
45+24.59 TO 45+62.23		37.64'X 24.00'X 1.750''X 1/324	4.88
45+62.23 TO 49+37.85		375.62'X 24.00'X 1.750''X 1/324	48.69
INPUT CALC.		1.750''X 981.33 S.F. X 1/324	5.30
SECOND ST			
NE SPANDREL SECOND & JACKSON		1.750''X 774.90 S.F. X 1/324	4.19
SE SPANDREL SECOND & JACKSON		1.750''X 120.25 S.F. X 1/324	0.65
10+24.00 TO 10+84.08		60.08'X 36.00'X 1.750''X 1/324	11.68
10+84.08 TO 33+30.64		2,246.56'X 36.00'X 1.750''X 1/324	436.83
WESTSIDE RR TRACKS		1.750''X 1644.48 S.F. X 1/324	8.88
EASTSIDE RR TRACKS		1.750''X 932.40 S.F. X 1/324	5.04
34+13.73 TO 35+81.15	TAPER 36' TO 24.5'	167.42'X 30.25'X 1.750''X 1/324	27.35
35+81.15 TO 35+96.15	FEATHER	15.00'X 24.50'X 0.875''X 1/324	0.99
THIRD ST			
NE SPANDREL THIRD & JACKSON		1.750''X 344.00 S.F. X 1/324	1.86
SE SPANDREL THIRD & JACKSON		1.750''X 21.40 S.F. X 1/324	0.12
10+18.00 TO 10+58.06		40.06'X 36.00'X 1.750''X 1/324	7.79
10+58.06 TO 19+66.57		908.51'X 36.00'X 1.750''X 1/324	176.65
19+66.57 TO 20+06.36	TAPER 36' TO 30'	39.79'X 33.00'X 1.750''X 1/324	7.09
20+06.36 TO 21+17.65		111.29'X 30.00'X 1.750''X 1/324	18.03
RELOC THIRD ST			
9+80.00 TO 9+95.00	FEATHER	15.00'X 36.00'X 0.875''X 1/324	1.47
9+95.00 TO 10+18.20		23.20'X 36.00'X 1.750''X 1/324	4.51
10+18.20 TO 10+76.27	TAPER 36' TO 24'	58.07'X 30.00'X 1.750''X 1/324	9.41
10+76.27 TO 12+86.86		210.59'X 24.00'X 1.750''X 1/324	27.30
12+86.86 TO 13+45.02	TAPER 24' TO 23.2'	58.16'X 23.60'X 1.750''X 1/324	7.41
13+45.02 TO 13+50.00		4.98'X 23.20'X 1.750''X 1/324	0.62
13+50.00 TO 13+65.00	FEATHER	15.00'X 23.20'X 0.875''X 1/324	0.94
JACKSON ST			
48+35.00 TO 48+50.00	FEATHER	15.00'X 36.00'X 0.875''X 1/324	1.46
48+50.00 TO 50+18.00		168.00'X 36.00'X 1.750''X 1/324	32.67
50+18.00 TO 50+43.62		25.62'X 48.00'X 1.750''X 1/324	6.64
BRIDGE OVER MAINLINE FROM STA 50+43.62 TO STA 52+84.12			
52+84.12 TO 53+59.98		75.86'X 48.00'X 1.750''X 1/324	19.67
53+59.98 TO 53+83.80		23.82'X 43.23'X 1.750''X 1/324	5.56
53+83.80 TO 54+39.00	TAPER 43.23' TO 42'	55.20'X 42.11'X 1.750''X 1/324	12.56
SPANDREL AREA		1.750''X 9.27 S.F. X 1/324	0.05
54+39.00 TO 54+50.00	TAPER 24.31' TO 24'	11.00'X 24.15'X 1.750''X 1/324	1.43
54+50.00 TO 54+65.00	FEATHER	15.00'X 24.00'X 0.875''X 1/324	0.97
MARKET ST			
48+85.00 TO 49+00.00	FEATHER	15.00'X 40.52'X 0.875''X 1/324	1.64
NE SPANDREL THIRD & MARKET		1.750''X 86.00 S.F. X 1/324	0.46
NW SPANDREL THIRD & MARKET		1.750''X 85.70 S.F. X 1/324	0.46
49+00.00 TO 49+82.00		82.00'X 39.90'X 1.750''X 1/324	17.67
53+59.98 TO 54+12.50		52.52'X 36.00'X 1.750''X 1/324	10.21
SW SPANDREL SECOND & MARKET		1.750''X 134.50 S.F. X 1/324	0.73
SE SPANDREL SECOND & MARKET		1.750''X 133.75 S.F. X 1/324	0.72
54+12.50 TO 54+27.50	FEATHER	15.00'X 36.00'X 0.875''X 1/324	1.46
PEACH ALLEY		12.00'X 20.00'X 1.750''X 1/324	1.30
WASHINGTON ST			
SE SPANDREL FOURTH & WASHINGTON		1.750''X 133.75 S.F. X 1/324	0.72
SW SPANDREL FOURTH & WASHINGTON		1.750''X 85.20 S.F. X 1/324	0.46
46+76.96 TO 48+97.88		220.92'X 36.00'X 1.750''X 1/324	42.96
48+97.88 TO 49+88.00 (BY PLANIMETER)		1.750''X 4020.00 S.F. X 1/324	21.71
SW SPANDREL SECOND & WASHINGTON		1.750''X 132.00 S.F. X 1/324	0.71
SE SPANDREL SECOND & WASHINGTON		1.750''X 133.75 S.F. X 1/324	0.72
53+59.98 TO 54+12.50		52.52'X 31.72'X 1.750''X 1/324	9.00
54+12.50 TO 54+27.50	FEATHER	15.00'X 31.72'X 0.875''X 1/324	1.28
CHURCH ALLEY		24.00'X 20.00'X 1.750''X 1/324	2.59
RIVER RD			
2+30.00 TO 2+45.00	FEATHER	7.50'X 28.00'X 0.875''X 1/324	0.56
3+23.48 TO 3+97.24		73.76'X 28.00'X 1.750''X 1/324	11.16
SE SPANDREL RIVER & SECOND		1.750''X 138.75 S.F. X 1/324	0.75
SW SPANDREL RIVER & SECOND		1.750''X 164.00 S.F. X 1/324	0.89
2+45.00 TO 3+23.48		78.48'X 28.00'X 1.750''X 1/324	11.86
FOURTH ST RESURFACING			
29+41.58 TO 29+71.58	FEATHER	30.00' X 2.450 S.F. X 1/27	2.72
29+71.58 TO 34+58.13		486.55' X 4.890 S.F. X 1/27	88.12
34+58.13 TO 34+81.20		23.07' X 5.070 S.F. X 1/27	4.33
34+81.20 TO 34+94.60		1.750''X 482.40 S.F. X 1/324	2.61
SW SPANDREL FOURTH & BROADWAY		1.750''X 3.65 S.F. X 1/324	0.02
NW CORNER FOURTH & BROADWAY		1.750''X 127.47 S.F. X 1/324	0.69
NE SPANDREL FOURTH & BROADWAY		1.750''X 121.63 S.F. X 1/324	0.66
SE SPANDREL FOURTH & BROADWAY		1.750''X 134.50 S.F. X 1/324	0.73
35+52.15 TO 35+78.90		26.75'X 32.30'X 1.750''X 1/324	4.67
35+78.90 TO 35+93.90	FEATHER	15.00'X 32.30'X 0.875''X 1/324	1.31
UNION ST.	FEATHER	6.00'X 20.00'X 0.875''X 1/324	0.32
BROADWAY			
41+45.00 TO 41+75.00	FEATHER	0.875''X 2426.40 S.F. X 1/324	6.55
41+75.00 TO 43+10.87	TAPER 47.75' TO 52'	135.87'X 49.87'X 1.750''X 1/324	36.60
RESURFACING 43+10.87	TO 44+50.00	139.13'X 40.00'X 1.875''X 1/324	32.21
WIDENING 43+10.87	TO 44+50.00	139.13'X 12.00'X 1.750''X 1/324	9.02
44+50.00 TO 47+80.37		330.37'X 52.00'X 1.750''X 1/324	92.79
47+80.37 TO 48+93.71		113.34'X 40.00'X 1.750''X 1/324	24.49
NE SPANDREL SECOND & BROADWAY		1.750''X 598.75 S.F. X 1/324	3.23
RIGHT TURN LANE (BY PLANIMETER)		1.750''X 2664.00 S.F. X 1/324	14.39
CHURCH ALLEY		1.750''X 14.00'X 32.00'X 1/324	2.41

402 ASPHALT CONCRETE - (AC-20) TOTAL 3,370.79

403 ASPHALT CONCRETE - (AC-20) CU. YDS.

LOCATION		CALCULATIONS	QUANTITY
FOURTH ST RESURFACING			
29+71.58 TO 35+00.00		528.42'X 36.00'X 0.500''X 1/324	29.36
BROADWAY RESURFACING			
41+75.00 TO 42+29.17		54.17'X 21.51'X 0.250''X 1/324	0.90

403 ASPHALT CONCRETE - (AC-20) TOTAL 30.26 CU. YDS.

COMPUTATIONS

CALC. BY E.C. DATE 11-18-84
CHK'D BY W.D. DATE 12-14-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457 (14)	

COL - 30 - 35.29

404 ASPHALT CONCRETE - (AC-20) CU. YDS.

LOCATION		CALCULATIONS	QUANTITY
EASTBOUND ROADWAY			
963+50.00 TO 968+80.00		530.00'X 36.00'X 1.250''X 1/324	73.61
968+80.00 TO 996+85.02		2,805.02'X 24.00'X 1.250''X 1/324	259.72
999+21.80 TO 1010+50.00		1,128.20'X 24.00'X 1.250''X 1/324	104.46
WESTBOUND ROADWAY			
963+50.00 TO 972+00.00		850.00'X 24.00'X 1.250''X 1/324	78.70
972+00.00 TO 981+50.00		950.00'X 24.00'X 1.250''X 1/324	87.96
981+50.00 TO 987+50.00		600.00'X 30.00'X 1.250''X 1/324	69.44
987+50.00 TO 996+85.02		935.02'X 36.00'X 1.250''X 1/324	129.86
BRIDGE OVER BROADWAY FROM STA 996+85.02 TO STA 999+21.80			
999+21.80 TO 1010+50.00		1,128.20'X 36.00'X 1.250''X 1/324	156.69
RAMP L ACCEL LANE			
962+00.00 TO 972+00.00	TAPER 2' TO 25'	1,000.00'X 13.50'X 1.250''X 1/324	52.08
RAMP L ROADWAY			
972+00.00 TO 979+34.74		734.74'X 16.00'X 1.250''X 1/324	45.35
979+34.74 TO 979+74.69		1.250''X 1329.70 S.F. X 1/324	5.13
RAMP M ROADWAY			
992+83.26 TO 993+43.26		1.250''X 2706.63 S.F. X 1/324	10.44
* 993+43.26 TO 994+24.58		97.07'X 30.00'X 1.250''X 1/324	11.23
994+24.58 TO 994+34.58	TAPER 30' TO 33'	10.00'X 31.50'X 1.250''X 1/324	1.22
994+34.58 TO 996+98.87		264.29'X 33.00'X 1.250''X 1/324	35.65
BRIDGE OVER BROADWAY FROM STA 996+98.87 TO STA 999+25.23			
999+25.23 TO 1002+60.00		334.77'X 33.00'X 1.250''X 1/324	42.62
1002+60.00 TO 1004+00.00	TAPER 33' TO 28.58'	140.00'X 30.79'X 1.250''X 1/324	16.63
RAMP M ACCEL LANE			
1004+00.00 TO 1004+68.27		68.27'X 41.23'X 1.250''X 1/324	10.86
1004+68.27 TO 1007+30.00		221.73'X 37.94'X 1.250''X 1/324	33.92
TAPER 25' TO 16.25'		350.00'X 20.63'X 1.250''X 1/324	27.86
RAMP N DECEL LANE			
INPUT CALC.		1.250''X 7448.80 S.F. X 1/324	28.74
968+80.00 TO 972+30.97		350.97'X 8.00'X 1.250''X 1/324	10.83
980+15.87 TO 980+19.29		3.42'X 27.00'X 1.250''X 1/324	0.36
RAMP N ROADWAY			
972+34.84 TO 973+34.84	TAPER 27' TO 25'	100.00'X 26.00'X 1.250''X 1/324	10.03
973+34.84 TO 976+50.00		315.16'X 25.00'X 1.250''X 1/324	30.40
976+50.00 TO 978+39.00	TAPER 25' TO 33'	155.00'X 29.00'X 1.250''X 1/324	16.78
978+89.00 TO 980+15.87		215.87'X 33.00'X 1.250''X 1/324	27.49
NW SPANDREL AREA RAMP N & JACKSON		1.250''X 139.13 S.F. X 1/324	0.54
980+19.29 TO 980+45.07		25.83'X 24.00'X 1.250''X 1/324	2.39
SW SPANDREL AREA RAMP N & JACKSON		1.250''X 134.13 S.F. X 1/324	0.52
980+15.87 TO 980+19.29		3.42'X 27.00'X 1.250''X 1/324	0.35
RAMP O DECEL LANE			
999+13.50 TO 1003+00.57	(RAMP O STATIONING)	387.07'X 6.50'X 1.250''X 1/324	9.71
996+18.17 TO 996+66.00		1.250''X 2022.75 S.F. X 1/324	7.80
RAMP O ROADWAY			
992+14.17 TO 995+14.17	TAPER 26' TO 16'	300.00'X 21.00'X 1.250''X 1/324	24.30
21+17.65 TO 21+53.22	(3RD. ST. STATIONING)	35.57'X 26.00'X 1.250''X 1/324	3.57
995+14.17 TO 996+18.12		103.95'X 16.00'X 1.250''X 1/324	6.41
FIRST ST			
45+24.59 TO 45+62.23		37.64'X 24.00'X 1.250''X 1/324	3.49
45+62.23 TO 49+37.83		375.60'X 24.00'X 1.250''X 1/324	34.78
BY PLANIMETER		1.250''X 981.33 S.F. X 1/324	3.79
SECOND ST			
NE SPANDREL SECOND & JACKSON		1.250''X 774.90 S.F. X 1/324	2.99
SE SPANDREL SECOND & JACKSON		1.250''X 120.25 S.F. X 1/324	0.46
10+24.00 TO 10+84.08		60.08'X 36.00'X 1.250''X 1/324	8.34
10+84.08 TO 33+30.64		2,246.56'X 36.00'X 1.250''X 1/324	312.02
WESTSIDE RR TRACKS		1.250''X 1644.48 S.F. X 1/324	6.34
EASTSIDE RR TRACKS		1.250''X 932.40 S.F. X 1/324	3.60
34+13.73 TO 35+81.15	TAPER 36' TO 24.5	167.42'X 30.25'X 1.250''X 1/324	19.54
35+81.15 TO 35+96.15	FEATHER	15.00'X 24.50'X 0.625''X 1/324	0.71
THIRD ST			
NE SPANDREL THIRD & JACKSON		1.250''X 344.00 S.F. X 1/324	1.33
SE SPANDREL THIRD & JACKSON		1.250''X 21.40 S.F. X 1/324	0.08
10+18.00 TO 10+58.06		40.06'X 36.00'X 1.250''X 1/324	5.56
10+58.06 TO 19+66.57		908.51'X 36.00'X 1.250''X 1/324	126.18
19+66.57 TO 20+06.36	TAPER 36' TO 30'	39.79'X 33.00'X 1.250''X 1/324	5.07
20+06.36 TO 21+17.65		111.29'X 30.00'X 1.250''X 1/324	12.88
RELOC THIRD ST			
9+80.00 TO 9+95.00	FEATHER	15.00'X 36.00'X 0.625''X 1/324	1.05
9+95.00 TO 10+18.20		23.20'X 36.00'X 1.250''X 1/324	3.22
10+18.20 TO 10+76.27	TAPER 36' TO 24'	58.07'X 30.00'X 1.250''X 1/324	6.72
10+76.27 TO 12+86.86		210.59'X 24.00'X 1.250''X 1/324	19.51
12+86.86 TO 13+45.02	TAPER 24' TO 23.2'	58.16'X 23.60'X 1.250''X 1/324	5.30
13+45.02 TO 13+50.00		4.98'X 23.20'X 1.250''X 1/324	0.45
13+50.00 TO 13+65.00	FEATHER	15.00'X 23.20'X 0.625''X 1/324	0.67
PEACH ALLEY			
		12.00'X 20.00'X 1.250''X 1/324	0.93
JACKSON ST			
48+35.00 TO 48+50.00	FEATHER	15.00'X 36.00'X 0.625''X 1/324	1.04
48+50.00 TO 50+18.00		168.00'X 36.00'X 1.250''X 1/324	23.33
50+18.00 TO 50+43.62		25.62'X 48.00'X 1.250''X 1/324	4.74
BRIDGE OVER MAINLINE FROM STA.50+43.62 TO STA.52+84.12			
52+84.12 TO 53+59.98		75.86'X 48.00'X 1.250''X 1/324	14.05
53+59.98 TO 53+83.80		23.82'X 43.23'X 1.250''X 1/324	3.97
TAPER 43.23' TO 42'		55.20'X 42.11'X 1.250''X 1/324	8.97
TAPER 42' TO 24.31'		1.250''X 139.60 S.F. X 1/324	0.54
SPANDREL AREA		1.250''X 9.27 S.F. X 1/324	0.04
TAPER 24.31' TO 24'		6.85'X 24.15'X 1.250''X 1/324	0.64
54+50.00 TO 54+65.00	FEATHER	15.00'X 24.00'X 0.625''X 1/324	0.69
MARKET ST			
48+85.00 TO 49+00.00	FEATHER	15.00'X 40.52'X 0.625''X 1/324	1.17
NE SPANDREL THIRD & MARKET		1.250''X 86.00 S.F. X 1/324	0.33
NW SPANDREL THIRD & MARKET		1.250''X 85.70 S.F. X 1/324	0.33
49+00.00 TO 49+82.00		82.00'X 39.90'X 1.250''X 1/324	12.62
53+59.98 TO 54+12.50		52.52'X 36.00'X 1.250''X 1/324	7.29
SW SPANDREL SECOND & MARKET		1.250''X 134.50 S.F. X 1/324	0.52
SE SPANDREL SECOND & MARKET		1.250''X 133.75 S.F. X 1/324	0.52
54+12.50 TO 54+27.50	FEATHER	15.00'X 36.00'X 0.625''X 1/324	1.04
WASHINGTON ST			
SE SPANDREL FOURTH & WASHINGTON		1.250''X 133.75 S.F. X 1/324	0.52
SW SPANDREL FOURTH & WASHINGTON		1.250''X 85.20 S.F. X 1/324	0.33
46+76.96 TO 48+97.88		220.92'X 36.00'X 1.250''X 1/324	30.68
48+97.88 TO 49+88.00	(BY PLANIMETER)	1.250''X 4026.00 S.F. X 1/324	15.51
SW SPANDREL SECOND & WASHINGTON		1.250''X 132.00 S.F. X 1/324	0.51
SE SPANDREL SECOND & WASHINGTON		1.250''X 133.75 S.F. X 1/324	0.52
53+59.98 TO 54+12.50		52.52'X 31.72'X 1.250''X 1/324	6.43
54+12.50 TO 54+27.50	FEATHER	15.00'X 31.72'X 0.625''X 1/324	0.92
CHURCH ALLEY			
		24.00'X 20.00'X 1.250''X 1/324	1.85
BROADWAY			
41+45.00 TO 41+75.00	FEATHER	0.625''X 2426.40 S.F. X 1/324	4.68
41+75.00 TO 43+10.87	TAPER 47.75 TO 52.	135.87'X 49.87'X 1.250''X 1/324	26.14
43+10.87 TO 47+80.37		469.50'X 52.00'X 1.250''X 1/324	94.19
47+80.37 TO 48+93.71		113.34'X 40.00'X 1.250''X 1/324	17.49
NE SPANDREL SECOND & BROADWAY		1.250''X 598.75 S.F. X 1/324	2.31
RIGHT TURN LANE (BY PLANIMETER)		1.250''X 2664.00 S.F. X 1/324	10.28
RIVER RD			
2+30.00 TO 2+45.00	FEATHER	15.00'X 28.00'X 0.625''X 1/324	0.81
3+23.48 TO 3+97.24		73.76'X 28.00'X 1.250''X 1/324	7.97
SE SPANDREL RIVER & SECOND		1.250''X 168.75 S.F. X 1/324	0.65
SW PARTIAL SPANDREL RIVER & SECOND		1.250''X 164.00 S.F. X 1/324	0.63
2+45.00 TO 3+23.48		1.250''X 98.10 S.F. X 1/324	0.38
FOURTH ST RESURFACING			
29+41.58 TO 29+71.58	FEATHER	30.00' X 1.910 S.F. X 1/27	2.12
WASHINGTON FEATHER		15.00'X 36.00'X 0.500''X 1/324	0.83
SPANDRELS AT WASHINGTON & FOURTH FEATHER		1.000''X 15.45 S.F. X 1/324	0.05
29+71.58 TO 34+58.13		486.55' X 3.810 S.F. X 1/27	66.66
34+58.13 TO 34+81.20		23.07' X 3.780 S.F. X 1/27	3.23
34+81.20 TO 34+94.60		1.250''X 482.40 S.F. X 1/324	1.86
SW SPANDREL FOURTH & BROADWAY		1.250''X 3.65 S.F. X 1/324	0.01
NW CORNER FOURTH & BROADWAY		1.250''X 127.47 S.F. X 1/324	0.49
UNION ST FEATHER		0.500''X 378.25 S.F. X 1/324	0.58
NE SPANDREL FOURTH & BROADWAY		1.250''X 121.63 S.F. X 1/324	0.47
SE SPANDREL FOURTH & BROADWAY		1.250''X 134.50 S.F. X 1/324	0.52
35+52.15 TO 35+78.90		26.75'X 32.30'X 1.250''X 1/324	3.33
35+78.90 TO 35+93.90	FEATHER	15.00'X 32.30'X 0.625''X 1/324	0.93

404 ASPHALT CONCRETE - (AC-20) TOTAL 2,404.36 CU. YDS.

203 SURGRADE COMPACTION *ITEM [404 + 409 + 609 + 622] - Resurfacing*

(2404 × 324 ÷ 1.25 ÷ 9) + (5483 ÷ 0.3) + (574 × 2.5 ÷ 9) + (879 × 1.5 ÷ 9) + (4525 × 4 ÷ 9) - 3358 = 86,471 SY

203 SUBGRADE COMPACTION TOTAL 86,471 SQ. YD.

203 PROOF ROLLING

86,471 S. Y. (SUBGRADE COMPACTION) ÷ 3000 S. Y./HR

203 PROOF ROLLING TOTAL 29.00 HOURS

659 COMMERCIAL FERTILIZER

SEEDING (81,114 S. Y.) PLUS SODDING (7,192 S. Y.) = 88,306 SQ. YD.

88,306 × 9 ÷ 1000 × 20 ÷ 2000

659 COMMERCIAL FERTILIZER TOTAL 8.00 TONS

659 AGRICULTURAL LIMING

SEEDING (81,114 S. Y.) PLUS SODDING (7,192 S. Y.) = 88,306 SQ. YD.

88,306 × 9 ÷ 1000 × 100 ÷ 2000

659 AGRICULTURAL LIMING TOTAL 40.00 TONS

CALC. BY E.C. DATE 6-23-82
CHK'D BY W.D. DATE 11-9-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL - 30 - 35.29

407 TACK COAT — GALLONS

LOCATION	CALCULATIONS	QUANTITY
BROADWAY		
41+75.00 TO 43+10.87 TAPER 47.75' TO 52'	135.87' X 49.87' X 1/9 X 0.100 GAL/S.Y.	75.29
43+10.87 TO 44+50.00	139.13' X 52.00' X 1/9 X 0.100 GAL/S.Y.	80.39
FOURTH ST		
29+71.58 TO 34+81.21	509.63' X 36.00' X 1/9 X 0.100 GAL/S.Y.	203.85
34+81.21 TO 34+94.61	53.60 S.Y. X 0.100 GAL/S.Y.	5.36
NW CORNER FOURTH & BROADWAY	14.16 S.Y. X 0.100 GAL/S.Y.	1.42
SW SPANDREL FOURTH & BROADWAY	0.41 S.Y. X 0.100 GAL/S.Y.	0.04
NE SPANDREL FOURTH & BROADWAY	13.51 S.Y. X 0.100 GAL/S.Y.	1.35
SE SPANDREL FOURTH & BROADWAY	14.94 S.Y. X 0.100 GAL/S.Y.	1.49
35+52.15 TO 35+78.90	26.75' X 32.30' X 1/9 X 0.100 GAL/S.Y.	9.60
407 TACK COAT	TOTAL	378.79 GALLONS

404 ASPHALT CONCRETE, AC-20, UNDER GUARDRAIL
LENGTH FROM GENERAL SUMMARY FOR ITEM 606 GUARDRAIL, TYPE 5, A.P. PLAN = 3808.75 L.F.
3808.75 X 4 X 1/9 X 2 X 1/36 = 94 C.Y.

409 BITUMINOUS PRIME COAT, AS PER PLAN
LENGTH FROM ABOVE
3808.75 X 4 X 1/9 X 0.4 = 677 GAL.

409 SEAL COAT BITUMINOUS MATERIAL — GALLONS

LOCATION	CALCULATIONS	QUANTITY
EASTBOUND MEDIAN SHOULDER		
956+00.00 TO 962+00.00	600.00' X 5.00' X 1/9 X 0.300 GAL/S.Y.	100.00
963+50.00 TO 963+92.50 TAPER 5' TO 8'	42.50' X 6.50' X 1/9 X 0.300 GAL/S.Y.	9.21
963+92.50 TO 979+22.74	1530.24' X 8.00' X 1/9 X 0.300 GAL/S.Y.	408.06
979+22.74 TO 979+82.74 TAPER 8' TO 6.5'	60.00' X 7.25' X 1/9 X 0.300 GAL/S.Y.	14.50
979+82.74 TO 980+46.85	64.11' X 6.50' X 1/9 X 0.300 GAL/S.Y.	13.89
980+46.85 TO 981+06.85 TAPER 6.5' TO 8'	60.00' X 7.25' X 1/9 X 0.300 GAL/S.Y.	14.50
981+06.85 TO 996+85.02	1578.17' X 8.00' X 1/9 X 0.300 GAL/S.Y.	420.85
999+21.80 TO 999+48.00	26.20' X 8.00' X 1/9 X 0.300 GAL/S.Y.	6.98
999+48.00 TO 999+88.00	40.00' X 7.50' X 1/9 X 0.300 GAL/S.Y.	13.58
999+88.00 TO 999+98.00	10.00' X 7.50' X 1/9 X 0.300 GAL/S.Y.	2.50
999+98.00 TO 1000+38.00	40.00' X 7.50' X 1/9 X 0.300 GAL/S.Y.	13.58
1000+38.00 TO 1010+50.00	1012.00' X 8.00' X 1/9 X 0.300 GAL/S.Y.	269.86
1010+50.00 TO 1014+12.00	*362.00' X 8.00' X 1/9 X 0.300 GAL/S.Y.*	*96.53*
WESTBOUND MEDIAN SHOULDER		
956+00.00 TO 962+00.00	*600.00' X 5.00' X 1/9 X 0.300 GAL/S.Y.*	*100.00*
963+50.00 TO 963+92.50 TAPER 5' TO 8'	42.50' X 6.50' X 1/9 X 0.300 GAL/S.Y.	9.21
963+92.50 TO 979+22.74	1530.24' X 8.00' X 1/9 X 0.300 GAL/S.Y.	408.06
979+22.74 TO 979+82.74 TAPER 8' TO 6.5'	60.00' X 7.25' X 1/9 X 0.300 GAL/S.Y.	14.50
979+82.74 TO 980+46.85	64.11' X 6.50' X 1/9 X 0.300 GAL/S.Y.	13.89
980+46.85 TO 981+06.85 TAPER 6.5' TO 8'	60.00' X 7.25' X 1/9 X 0.300 GAL/S.Y.	14.50
981+06.85 TO 996+85.02	1578.17' X 8.00' X 1/9 X 0.300 GAL/S.Y.	420.85
999+21.80 TO 999+48.00	26.20' X 8.00' X 1/9 X 0.300 GAL/S.Y.	6.98
999+48.00 TO 999+88.00	40.00' X 7.50' X 1/9 X 0.300 GAL/S.Y.	13.58
999+88.00 TO 999+98.00	10.00' X 7.50' X 1/9 X 0.300 GAL/S.Y.	2.50
999+98.00 TO 1000+38.00	40.00' X 7.50' X 1/9 X 0.300 GAL/S.Y.	13.58
1000+38.00 TO 1010+50.00	1012.00' X 8.00' X 1/9 X 0.300 GAL/S.Y.	269.86
1010+50.00 TO 1014+12.00	*362.00' X 8.00' X 1/9 X 0.300 GAL/S.Y.*	*96.55*
WESTBOUND SHOULDER		
973+73.50 TO 996+05.89	2232.39' X 8.00' X 1/9 X 0.300 GAL/S.Y.	595.30
1003+00.57 TO 1010+50.00	749.43' X 8.00' X 1/9 X 0.300 GAL/S.Y.	199.85
EASTBOUND SHOULDER		
963+50.00 TO 972+30.97	880.97' X 8.00' X 1/9 X 0.300 GAL/S.Y.	234.92
972+30.97 TO 997+00.00	2469.03' X 8.00' X 1/9 X 0.300 GAL/S.Y.	658.41
999+34.00 TO 1004+00.00	466.00' X 8.00' X 1/9 X 0.300 GAL/S.Y.	124.27
RAMP M ACCEL LANE SHOULDER		
1007+00.00 TO 1010+50.00	350.00' X 10.00' X 1/9 X 0.300 GAL/S.Y.	116.67
RAMP L ACCEL LANE SHOULDER		
962+00.00 TO 972+00.00	1000.00' X 8.00' X 1/9 X 0.300 GAL/S.Y.	266.67
RAMP L LEFT SHOULDER		
TAPER 8' TO 6'	100.00' X 7.00' X 1/9 X 0.300 GAL/S.Y.	23.33
973+00.00 TO 978+79.86	579.86' X 6.00' X 1/9 X 0.300 GAL/S.Y.	115.97
TAPER 6' TO 3'	54.88' X 4.50' X 1/9 X 0.300 GAL/S.Y.	8.23
RAMP L RIGHT SHOULDER		
973+75.00 TO 979+43.65	568.65' X 3.00' X 1/9 X 0.300 GAL/S.Y.	56.86
RAMP L NOSE AREA		
972+00.00 TO 973+75.00 AVE WIDTH 14'	175.00' X 14.00' X 1/9 X 0.300 GAL/S.Y.	81.67
RAMP O DECEL LANE SHOULDER		
999+13.50 TO 1003+00.57	387.07' X 8.00' X 1/9 X 0.300 GAL/S.Y.	103.22
RAMP O LEFT SHOULDER		
996+18.12 TO 996+66.00	47.88' X 8.00' X 1/9 X 0.300 GAL/S.Y.	12.77
21+17.65 TO 21+53.22 (THIRD ST STATION)	35.57' X 6.00' X 1/9 X 0.300 GAL/S.Y.	7.11
992+14.17 TO 995+18.12	303.95' X 6.00' X 1/9 X 0.300 GAL/S.Y.	60.79
995+18.12 TO 996+18.12 TAPER 6' TO 8'	100.00' X 7.00' X 1/9 X 0.300 GAL/S.Y.	23.33
RAMP O RIGHT SHOULDER		
21+17.65 TO 21+53.22 (THIRD ST STATION)	35.57' X 3.00' X 1/9 X 0.300 GAL/S.Y.	3.56
992+14.17 TO 996+18.12	403.95' X 3.00' X 1/9 X 0.300 GAL/S.Y.	40.40
409 SEAL COAT BITUMINOUS MATERIAL	TOTAL	*5501.33* GALLONS
409 SEAL COAT COVER AGGREGATE	(*5501.33* GAL ÷ 0.30 X 0.008) TOTAL	*146.70* CU. YD.

203 EXCAVATION / EMBANKMENT — CU. YD.

	EXCAVATION	EMBANKMENT
U. S. 30		
STA 956+55 TO STA 963+00	**263.00**	**0.00**
STA 963+50 TO STA 970+00	30,892.00	244.00
STA 970+00 TO STA 975+00	101,928.00	0.00
STA 975+00 TO STA 980+00	111,755.00	0.00
STA 980+00 TO STA 985+00	53,060.00	54.00
STA 985+00 TO STA 990+00	9,198.00	9,369.00
STA 990+00 TO STA 995+00	0.00	60,808.00
STA 995+00 TO STA 1000+00	3,366.00	75,395.00
STA 1000+00 TO STA 1005+00	1,380.00	59,887.00
STA 1005+00 TO STA 1010+50	2,218.00	3,391.00
	314,700.00	209,748.00 CU. YD.
SECOND STREET		
STA 10+25 TO STA 15+00	925.	193.
STA 15+00 TO STA 20+00	1362.	0
STA 20+00 TO STA 25+00	1787.	0
STA 25+00 TO STA 30+00	2946.	675.
STA 30+00 TO STA 36+81.15	5617.	453.
	12557.	1321. CU. YD.
THIRD STREET		
STA 10+50 TO STA 15+00.	400.	684.
STA 15+00 TO STA 21+17.65	645.	3078.
	1045.	3762. CU. YD.
RELOC. THIRD STREET		
STA 10+00 TO STA 13+65	837.	816.
	837.	816. CU. YD.
JACKSON STREET		
STA 48+50.00 TO STA 50+75.87	961.	137.
STA 52+51.87 TO STA 54+65.00	936.	477.
	1897.	614. CU. YD.
MARKET STREET		
STA 49+00.00 TO STA 49+81.50	313.	0
STA 53+59.98 TO STA 54+12.50	144.	0
	457.	0 CU. YD.
WASHINGTON STREET		
STA 46+76.96 TO STA 49+88.00	461.	551.
STA 53+41.98 TO STA 54+12.50	213.	4.
	674.	555. CU. YD.
BROADWAY		
STA 41+75 TO STA 44+50	297.	0
STA 44+50 TO STA 48+50	2790.	126.
	3087.	126. CU. YD.
RIVER RD		
STA 2+30 TO STA 3+67.24	53.	320.
	53.	320.
PROFILE ℄ DRIVE SECOND ST		
STA 33+02.50		
STA 0+00.00 TO 0+78	52.	0
	52.	0
203 EXCAVATION / EMBANKMENT	335,359.00	217,262.00 CU. YD.

203 SPECIAL EMBANKMENT — CU. YD.

U. S. 30	
STA 967+00 TO STA 970+00	646.00
STA 970+00 TO STA 975+00	1,689.00
STA 975+00 TO STA 980+00	1,859.00
STA 980+00 TO STA 985+00	1,220.00
STA 985+00 TO STA 990+00	140.00
STA 990+00 TO STA 995+00	1,190.00
STA 995+00 TO STA 1000+00	1,302.00
STA 1000+00 TO STA 1004+00	680.00
203 SPECIAL EMBANKMENT	**8,736.00** CU. YD.

659 SEEDING AND MULCHING — SQ. YD.

U. S. 30	
STA 963+50 TO STA 970+00	4,219.00
STA 970+00 TO STA 975+00	10,074.00
STA 975+00 TO STA 980+00	15,275.00
STA 980+00 TO STA 985+00	9,211.00
STA 985+00 TO STA 990+00	7,170.00
STA 990+00 TO STA 995+00	11,040.00
STA 995+00 TO STA 1000+00	8,258.00
STA 1000+00 TO STA 1005+00	10,710.00
STA 1005+00 TO STA 1010+50	5,157.00
659 SEEDING AND MULCHING	81,114.00 SQ. YD.

660 SODDING — SQ. YD.

SECOND STREET	
STA 10+25 TO STA 15+00	638.00
STA 15+00 TO STA 20+00	338.00
STA 20+00 TO STA 25+00	660.00
STA 25+00 TO STA 30+00	1,453.00
STA 30+00 TO STA 36+81.15	1,526.00
	4,615.00 SQ. YD.
THIRD STREET	
STA 10+50 TO STA 15+00.	512.00
STA 15+00 TO STA 21+18	677.00
	1,189.00 SQ. YD.
RELOC. THIRD STREET	
STA 10+00 TO STA 13+65	238.00
	238.00 SQ. YD.
JACKSON STREET	
STA 48+50.00 TO STA 50+75.87	594.00
STA 52+51.87 TO STA 54+65.00	427.00
	1021.00 SQ. YD.
BROADWAY	
STA 41+75 TO STA 42+50	56.00
STA 47+50 TO STA 48+50	73.00
	129.00 SQ. YD.
660 SODDING	*7,192.00* SQ. YD.

COMPUTATIONS

611 REINFORCED CONCRETE APPROACH SLABS — SQ. YDS.

LOCATION	CALCULATIONS	QUANTITY
MAINLINE OVER BROADWAY		
WEST (T=15'')		
996+84.99 TO 997+09.99	379.17 S.Y.	379.17
EAST (T=15'')		
998+96.78 TO 999+21.78	319.44 S.Y.	319.44
RAMP M OVER BROADWAY		
EAST (T=15'')		
996+98.87 TO 997+23.87	25.00' X 36.00' X 1/9	100.00
WEST (T=15'')		
999+00.23 TO 999+25.23	25.00' X 36.00' X 1/9	100.00
611 REINFORCED CONCRETE APPROACH SLAB (T=15")		898.61 SQ.YDS.
JACKSON ST. OVER MAINLINE		
NORTH (T=17'')		
50+43.61 TO 50+73.61	30.00' X 48.00' X 1/9	160.00
SOUTH (T=17'')		
52+54.11 TO 52+84.11	162.61 S.Y.	162.61
611 REINFORCED CONCRETE APPROACH SLABS (T=17'')	TOTAL	322.61 SQ. YDS.

622 CONCRETE BARRIER TYPE A — AS PER PLAN — LIN. FT.

LOCATION	CALCULATIONS	QUANTITY
MAINLINE		
956+00.00 TO 956+35.00	*35.00'*	*35.00*
956+55.00 TO 960+40.00	385.00'	385.00
960+60.00 TO 962+95.00	235.00'	235.00
963+05.00 TO 963+38.00	33.00'	33.00
622 CONCRETE BARRIER TYPE A — AS PER PLAN	TOTAL	*688.00*

622 CONCRETE BARRIER , TYPE B — *As Per Plan* — LIN. FT.

LOCATION	CALCULATIONS	QUANTITY
MAINLINE		
963+58.00 TO 964+37.75	79.75	79.75
LIGHT POLE		
964+40.25 TO 966+16.00	175.75	175.75
INLET		
966+36.00 TO 966+37.75	1.75	1.75
LIGHT POLE		
966+40.25 TO 968+37.75	197.50	197.50
LIGHT POLE		
968+40.25 TO 968+62.00	21.75	21.75
INLET		
968+82.00 TO 969+58.75	76.75	76.75
PULLBOX		
969+61.25 TO 970+37.75	76.50	76.50
LIGHT POLE		
970+40.25 TO 971+90.00	149.75	149.75
INLET		
972+10.00 TO 973+56.75	146.75	146.75
LIGHT POLE		
973+59.25 TO 976+06.75	247.50	247.50
LIGHT POLE		
976+09.25 TO 978+47.00	237.75	237.75
INLET		
978+67.00 TO 978+67.75	0.75	0.75
LIGHT POLE		
978+70.25 TO 979+71.75	101.50	101.50
PULLBOX		
979+74.25 TO 981+02.75	128.50	128.50
LIGHT POLE		
981+05.25 TO 983+25.75	220.50	220.50
LIGHT POLE		
983+28.25 TO 984+90.00	161.75	161.75
INLET		
985+10.00 TO 985+25.75	15.75	15.75
LIGHT POLE		
985+28.25 TO 985+90.00	61.75	61.75
INLET		
986+10.00 TO 987+25.75	115.75	115.75
LIGHT POLE		
987+28.25 TO 989+25.75	197.50	197.50
LIGHT POLE		
989+28.25 TO 990+31.00	102.75	102.75
INLET		
990+51.00 TO 991+20.75	69.75	69.75
LIGHT POLE		
991+23.25 TO 993+10.75	187.50	187.50
LIGHT POLE		
993+13.25 TO 995+00.75	187.50	187.50
LIGHT POLE		
995+03.25 TO 996+30.75	127.50	127.50
PULLBOX		
996+33.25 TO 996+85.02	51.77	51.77
BRIDGE OVER BROADWAY		
999+30.00 TO 999+33.00	3.00	3.00
INLET		
999+53.00 TO 999+65.75	12.75	12.75
LIGHT POLE		
999+68.25 TO 1001+58.75	190.50	190.50
PULLBOX		
1001+61.25 TO 1001+65.75	4.50	4.50
LIGHT POLE		
1001+68.25 TO 1003+65.75	197.50	197.50
LIGHT POLE		
1003+68.25 TO 1004+12.00	43.75	43.75
INLET		
1004+32.00 TO 1004+56.75	24.75	24.75
PULLBOX		
1004+59.25 TO 1005+18.75	59.50	59.50
PULLBOX		
1005+21.25 TO 1005+65.75	44.50	44.50
LIGHT POLE		
1005+68.25 TO 1007+00.00	131.75	131.75
INLET		
1007+20.00 TO 1007+65.75	45.75	45.75
LIGHT POLE		
1007+68.25 TO 1007+88.75	20.50	20.50
PULLBOX		
1007+91.25 TO 1009+79.75	188.50	188.50
LIGHT POLE		
1009+82.25 TO 1010+50.00	67.75	67.75
1010+50.00 TO 1012+00.00	*150.00*	*150.00*
1012+14.00 TO 1014+12.00	*198.00*	*198.00*
		TOTAL 4,525.00 LIN. FT.

622 Concrete Barrier , Type B — *As Per Plan*

COMPUTATIONS

AA B/Pe 7320Z

SUB - SUMMARY

CALC. BY LCK DATE 12-27-84
CHKD. BY CEW DATE 1-2-85

OHIO | FHWA REGION 5 | 37 / 362

COL - 30 - 35.29

| SHEET NUMBER | | |

AA B/P# 73202

GENERAL SUMMARY

CALC. BY LCK DATE 12-22-82
CHKD. BY CEW DATE 1-2-85

OHIO | FHWA REGION 5 | 38 / 362

COL-30-35.29

| SHEET NUMBER | | |

AA B/Pv 73202

SUB - SUMMARY

CALC. BY LCK DATE 12-28-84
CHKD. BY CEW DATE 1-2-85

OHIO
FHWA REGION 5

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COL-30-35.29

| SHEET NUMBER | | |

AA 11/P4 73202

GENERAL SUMMARY

CALC. BY CLK DATE 12-28-84
CHKD. BY CEW DATE 1-2-85

OHIO
FHWA REGION 5

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COL-30-35.29

ITEM	64	66	68	70	71	72	74	77	79	82	84	85	87	89	91	95	214	215	ITEM EXT.	TOTAL FROM SHEET	TOTAL THIS SHEET	BID ITEM	BID QUAN.	BID UNIT	DESCRIPTION
																				39					
																									PAVEMENT
																			10002	15,505	–	301	15,505	CU. YD.	BITUMINOUS AGGREGATE BASE. **AC-20**
																			20000	8703	–	304	8703	CU. YD.	AGGREGATE BASE
						7				75				5					13000	466	87	305	557	SQ. YD.	9" CONCRETE BASE
																			20000	1572	–	310	1572	CU. YD.	SUBBASE **TYPE II**
																			20000	3371	–	402	3371	CU. YD.	ASPHALT CONCRETE, AC-20
																			20000	31	–	403	31	CU. YD.	ASPHALT CONCRETE, AC-20
																			20000	2404	–	404	2404	CU. YD.	ASPHALT CONCRETE, AC-20
																			30000	94	–	404	94	C.Y.	ASPHALT CONCRETE, AC-20, UNDER GUARDRAIL
																			10000	379	–	407	379	GAL.	TACK COAT
																			10001	677		408	677	GAL.	BITUMINOUS PRIME COAT AS PER PLAN
																			20000	5502	–	409	5502	GAL	SEAL COAT **BITUMINOUS MATERIAL**
																			12000	147	–	409	147	CU. YD.	SEAL COAT COVER AGGREGATE, NO. 8
		34					30												10000	–	64	452	64	SQ. YD.	6" PLAIN CONCRETE PAVEMENT
	70	116	44	109					41	21	47			31	105				12000	–	584	452	584	SQ. YD.	8" PLAIN CONCRETE PAVEMENT
	1068	966	1096	1094			913	50	1038	434	816		1098	774	698				26000	1914	10,045	609	11,959	LIN.FT.	CURB, TYPE 6
																			12000	574	–	609	574	LIN.FT.	COMBINATION CURB AND GUTTER, TYPE 2
								130	54		241			346		108			12001	–	879	609	879	LIN.FT.	COMBINATION CURB AND GUTTER, TYPE 2 **AS PER PLAN** (See Sht. 210)
								50			186								10000	–	236	609	236	LIN. FT.	**ASPHALT CONCRETE CURB, TYPE I, AC-20**
																			25000	899	–	611	899	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T=15")
																			30000	323	–	611	323	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T=17")
													183						10000	–	183	612	183	SQ. YD.	CONCRETE TRAFFIC ISLAND
																			23301	688	–	622	688	LIN. FT.	**CONCRETE BARRIER, TYPE A AS PER PLAN** (See Sht. 50 and 51)
																			23401	4525	–	622	4525	LIN.FT.	CONCRETE BARRIER, TYPE B AS PER PLAN
														255					24001	–	255	622	255	LIN. FT.	**CONCRETE BARRIER, TYPE D AS PER PLAN** (See Sht. 210)
																									EROSION CONTROL
																			10000	16,200	–	207	16,200	SQ. YD.	**TEMPORARY SEEDING AND MULCHING**
																	304	691	70000	–	995	207	995	EACH	STRAW OR HAY BALES
																	269	574	50000	–	843	207	843	CU. YD.	TEMPORARY BENCHES, DIKES, DAMS AND SEDIMENT BASINS
						13													32000	18	13	601	31	CU.YD.	**ROCK CHANNEL PROTECTION, TYPE A WITH FILTER**
																	7	15	34200	–	22	601	22	CU. YD.	ROCK CHANNEL PROTECTION, TYPE **C WITHOUT FILTER**
							10												32300	–	10	601	10	CU. YD.	ROCK CHANNEL PROTECTION, TYPE **D WITH FILTER**
		60																	37500	60	60	601	120	LIN.FT.	PAVED GUTTER, TYPE 1-2
												2850		1205					21000	–	4055	601	4055	SQ. YD.	**CONCRETE SLOPE PROTECTION**
																			14000	4000	–	659	4000	SQ. YD.	**REPAIR SEEDING AND MULCHING**
																			10000	81,114	–	659	81,114	SQ. YD.	SEEDING AND MULCHING
																			20000	12	–	659	12	TON	COMMERCIAL FERTILIZER
																			30000	40	–	659	40	TON	AGRICULTURAL LIMING
																			40000	220	–	659	220	M S.F.	MOWING
																			35000	135	–	659	135	M GAL.	WATER
																			30000	7192	–	660	7192	SQ. YD.	SODDING
								70				48							20000	–	118	660	118	SQ. YD.	REINFORCED SODDING
		506			325		79	541				1027		238		595			40000	626	3311	670	3937	SQ. YD.	DITCH EROSION PROTECTION

AA 8/P+ 73202

SUB - SUMMARY

CALC. BY LCK DATE 12-28-84
CHKD. BY CEW DATE 1-2-85

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ITEM		SHEET NUMBER 29																		50	54	56	57	59	60	62		BID ITEM	BID QUAN.	BID UNIT	DESCRIPTION
																															DRAINAGE
																						15					602	15	CU. YD.	CONCRETE MASONRY
		200																									603	200	LIN.FT.	4" CONDUIT TYPE E 707.19
		200																									603	200	LIN. FT.	4" CONDUIT TYPE E, 706.01, 706.02 OR 706.08
		200																						10			603	210	LIN.FT.	6" CONDUIT, TYPE F 707.17 Non Perforated ASTM 3034 SDR 35 or Supplemental Specification 931
																			8	4							603	12	LIN.FT.	6" CONDUIT, TYPE B 707.17 Non Perforated ASTM 3034 SDR 35 or Supplemental Specification 931
																			8	9		29	16		64		603	126	LIN.FT.	12" CONDUIT, TYPE B
																				38			75				603	113	LIN.FT.	12" CONDUIT, TYPE C
																						67	10				603	77	LIN.FT.	15" CONDUIT, TYPE B
																							260				603	260	LIN.FT.	15" CONDUIT, TYPE B 707.13
																							10				603	10	LIN.FT.	15" CONDUIT, TYPE C
																							82				603	82	LIN.FT.	15" CONDUIT, TYPE C (707.13)
																				12			7				603	19	LIN.FT.	18" CONDUIT, TYPE B
																						60					603	60	LIN.FT.	18" CONDUIT, TYPE C
																				59							603	59	LIN.FT.	18" CONDUIT, TYPE C (707.13)
																						4	277				603	281	LIN.FT.	21" CONDUIT, TYPE B
																						148	87				603	235	LIN.FT.	21" CONDUIT, TYPE C (707.13)
																				134							603	134	LIN.FT.	24" CONDUIT, TYPE B
																						130					603	130	LIN.FT.	24" CONDUIT, TYPE C
																						142					603	142	LIN.FT.	27" CONDUIT, TYPE B
																							106				603	106	LIN.FT.	42" CONDUIT, TYPE B
																						111					603	111	LIN.FT.	42" CONDUIT, TYPE B (706.02 1250 D-LOAD)
																						109					603	109	LIN.FT.	42" CONDUIT, TYPE B (706.02 3000 D-LOAD UNDER RAILROAD) AS PER PLAN
																						42	357				603	399	LIN.FT.	42" CONDUIT, TYPE C
																				2							604	2	EACH	MANHOLE RECONSTRUCTED TO GRADE
																				1							604	1	EACH	MANHOLE ADJUSTED TO GRADE
																				1	1		4				604	6	EACH	MANHOLE, NO. 1
																				1	1			2			604	4	EACH	MANHOLE, NO. 2
																			2								604	2	EACH	INLET, NO. 3A AS PER PLAN
																				2							604	2	EACH	INLET, NO. 3B AS PER PLAN
																								1			604	1	EACH	INLET, NO. 2A-6 AS PER PLAN
																					1			1			604	2	EACH	INLET, NO. 2A-8
																					1						604	1	EACH	INLET, NO. 2A-10
																				2				2			604	4	EACH	INLET, NO. 2A-12
																					2						604	2	EACH	INLET, NO. 2A-12 W/CONCRETE APRON
																					2						604	2	EACH	INLET, NO. 2A-16
																								1			604	1	EACH	INLET, NO. 2A-20
																				2	1		1				604	4	EACH	INLET, NO. I-3B
																									1		604	1	EACH	CATCH BASIN, NO. 2-3
																					1						604	1	EACH	CATCH BASIN, NO. 2-4 WITH SIDE INLET
																							1				604	1	EACH	CATCH BASIN, NO. 3A
																									1		604	1	EACH	CATCH BASIN, NO. 5
																					1		3				604	4	EACH	CATCH BASIN, NO. 5A

AA B/Pr 73302

GENERAL SUMMARY

CALC BY LCK DATE 12-15-87
CHKD BY CEW DATE 1-3-88

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FHWA REGION 5

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COL-30-35.29

ITEM	SHEET NUMBER 64	66	68	70	71	72	74	77	79	82	84	85	87	89	91	93	95	ITEM EXT.	TOTAL FROM SHEET	TOTAL THIS SHEET	BID ITEM	BID QUAN.	BID UNIT	DESCRIPTION
																			41					
																								DRAINAGE
						1		17				3			1			20000	15	22	602	37	CU.YD.	CONCRETE MASONRY
																		00100	200	–	603	200	LIN. FT.	4" CONDUIT TYPE E 707.19
																		00400	200	–	603	200	LIN. FT.	4" CONDUIT TYPE E, 706.01, 706.02 OR 706.08
	10	40	20		70		60	10	30	20	40		74	100	30		30	01500	210	534	603	744	LIN.FT.	6" CONDUIT, TYPE F 707.17 Non Perforated ASTM 3034 SDR 35 or Supplemental Specification 931
																		00900	12	–	603	12	LIN.FT.	6" CONDUIT, TYPE B 707.17 Non Perforated ASTM 3034 SDR 35 or Supplemental Specification 931
	55	57	80	352			57		66	52	145		40	40	87			04400	126	1031	603	1157	LIN.FT.	12" CONDUIT, TYPE B
		106													17			04600	113	123	603	236	LIN.FT.	12" CONDUIT, TYPE C
												283						02600	–	283	603	283	LIN.FT.	8" CONDUIT TYPE F
		285	138	123			154	164	495	106	164			38	60		97	05900	77	1824	603	1901	LIN.FT.	15" CONDUIT, TYPE B
														118	108			05900		226	603	221	LIN.FT.	15" CONDUIT, TYPE B (706.02 2000D-LOAD OR 707.13)
														37				06100	10	37	603	47	LIN.FT.	15" CONDUIT, TYPE C
																		06100	82	–	603	82	LIN.FT.	15" CONDUIT, TYPE C (707.13)
														54				05900	260	54	603	314	LIN.FT.	15" CONDUIT, TYPE B (707.13)
	26									67	153			18				07400	19	264	603	283	LIN.FT.	18" CONDUIT, TYPE B
	60																	07600	60	60	603	120	LIN.FT.	18" CONDUIT, TYPE C
																		07600	59	–	603	59	LIN.FT.	18" CONDUIT, TYPE C (707.13)
							178		136		279		205					08900	281	798	603	1079	LIN.FT.	21" CONDUIT, TYPE B
																		09100	235	–	603	235	LIN.FT.	21" CONDUIT, TYPE C (707.13)
							134	45				33	275					10400	134	487	603	621	LIN.FT.	24" CONDUIT, TYPE B
													61					10600	130	61	603	191	LIN.FT.	24" CONDUIT, TYPE C
											240							10600		240	603	240	LIN.FT.	24" CONDUIT, TYPE C (706.02, 706.08 OR 707.13)
				228														11900	142	–	603	142	LIN.FT.	27" CONDUIT, TYPE B
																		12100	–	228	603	228	LIN.FT.	27" CONDUIT, TYPE C
				336		108												13400	–	444	603	444	LIN.FT.	30" CONDUIT, TYPE B
						280							10		196			13401	–	486	603	486	LIN.FT.	30" CONDUIT, TYPE B (706.02 3000 D-LOAD UNDER RAILROAD) AS PER PLAN (See Sht. 29)
				182				45										13600	–	227	603	227	LIN.FT.	30" CONDUIT, TYPE C
																		19400	106	–	603	106	LIN.FT.	42" CONDUIT, TYPE B
																		19400	111	–	603	111	LIN.FT.	42" CONDUIT, TYPE B (706.02 1250 D-LOAD)
																		19401	109	–	603	109	LIN.FT.	42" CONDUIT, TYPE B (706.02 3000 D-LOAD UNDER RAILROAD) AS PER PLAN (See Sht 29)
																		19600	399	–	603	399	LIN.FT.	42" CONDUIT, TYPE C
														1				35500	2	1	604	3	EACH	MANHOLE RECONSTRUCTED TO GRADE
															1			35501	–	1	604	1	EACH	MANHOLE RECONSTRUCTED TO GRADE AS PER PLAN (See Sht. 29)
		1	3	3					2	1			2	6	1		2	34500	1	21	604	22	EACH	MANHOLE ADJUSTED TO GRADE
		1	2	5			3		2	4		3	3				1	30100	6	24	604	30	EACH	MANHOLE, NO. 1
																		30900	4	–	604	4	EACH	MANHOLE, NO. 2
																	1	32100	–	1	604	1	EACH	MANHOLE, NO. 5
																		14501	2	–	604	2	EACH	INLET, NO. 3A AS PER PLAN (See Sht. 29)
																		14601	2	–	604	2	EACH	INLET, NO. 3B AS PER PLAN (See Sht. 29)
				1				1						2				17500	–	4	604	4	EACH	INLET, NO. 2A-6
													1					17501	1	1	604	2	EACH	INLET, NO. 2A-6 AS PER PLAN
				3					3									17900	2	6	604	8	EACH	INLET, NO. 2A-8
				1								1	1		1			18300	1	4	604	5	EACH	INLET, NO. 2A-10
			1									1						18700	4	2	604	6	EACH	INLET, NO. 2A-12
																		18700	2	–	604	2	EACH	INLET, NO. 2A-12 W/CONCRETE APRON
	1						1			2								19100	–	4	604	4	EACH	INLET, NO. 2A-14
														2				19500	2	2	604	4	EACH	INLET, NO. 2A-16
							1		1				2	1				19900	–	5	604	5	EACH	INLET, NO. 2A-18
	2		2				3			1		2						20300	1	10	604	11	EACH	INLET, NO. 2A-20
		1		1				1						1			2	14600	4	6	604	10	EACH	INLET, NO. 3B
						1												04900	–	1	604	1	EACH	CATCH BASIN, NO. 2-3 WITH SIDE INLETS
		1																04900	1	1	604	2	EACH	CATCH BASIN, NO. 2-3
																1		05300	1	1	604	2	EACH	CATCH BASIN, NO. 2-4 WITH SIDE INLETS
		2										2	1	2	2			00400	–	9	604	9	EACH	CATCH BASIN, NO. 3
															1			00401	–	1	604	1	EACH	CATCH BASIN, NO. 3 AS PER PLAN (See Sht 211)
												1						00800	1	1	604	2	EACH	CATCH BASIN, NO. 3A
				2				1				1		2				01600	1	6	604	7	EACH	CATCH BASIN, NO. 5
																		01800	4	–	604	4	EACH	CATCH BASIN, NO. 5A
			1				1							1			1	02000	–	4	604	4	EACH	CATCH BASIN, NO. 6

AA 15/Pe 73202

SUB - SUMMARY

CALC. BY LCK DATE 12-31-84
CHKD. BY CEW DATE 1-3-85

OHIO
FHWA REGION 5

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COL-30-35.29

ITEM	SHEET NUMBER																								BID			DESCRIPTION
		29																					54	57	60	62		ITEM	QUAN.	UNIT	
																														DRAINAGE - CONT
		1000																									605	1000	LIN. FT.	6" Shallow Rock Cut Pipe Underdrains 707.01 Type III, 707.21 Type III or 707.17
																								155			605	155	LIN.FT.	6" DEEP PIPE UNDERDRAINS
		300																									605	300	LIN.FT.	6" UNCLASSIFIED PIPE UNDERDRAIN 707.01 Type III or 707.21 Type III, As Per Plan
		30																									605	30	LIN.FT.	AGGREGATE DRAINS FOR SPRINGS
																														SANITARY SEWER
		100																									603	100	LIN.FT.	6" CONDUIT, TYPE B, 706.01 C1.3, 706.02 OR 706.08 W/JOINTS AS PER 706.11 OR 706.12
																							377	416			603	793	LIN.FT.	6" CONDUIT, TYPE C (706.08 **WITH 706.12 JOINTS**)
		100																									603	100	L.F.	6" CONDUIT, TYPE C, 706.01, 706.02 OR 706.08 W/JOINTS AS PER 706.11 OR 706.12
																									117		603	117	LIN.FT.	8" CONDUIT, TYPE B (706.08 **WITH 706.12 JOINTS**)
																									73		**603**	**73**	**LIN. FT.**	**8" CONDUIT, TYPE B (706.02 3000 D-LOAD WITH 706.12 JOINTS UNDER RAILROAD) AS PER PLAN**
																							211				603	211	LIN.FT.	10" CONDUIT, TYPE B (706.08 **WITH 706.12 JOINTS**)
																						100	200				603	300	LIN.FT.	10" CONDUIT, TYPE C (706.08 **WITH 706.12 JOINTS**)
																							73				**603**	**73**	**LIN. FT.**	**10" CONDUIT, TYPE B (706.02 3000D-LOAD WITH 706.12 JOINTS UNDER RAILROAD) AS PER PLAN**
																						1	3	2	1		604	7	EACH	MANHOLE, NO. 3 **WITH 706.11 JOINTS**
																							2				604	2	EACH	MANHOLE, NO. 3 **WITH DROP AND WITH 706.11 JOINTS**
																									1		604	1	EACH	MANHOLE RECONSTRUCTED WITH DROP PIPE, AS PER PLAN

AA B/Pe 73202

GENERAL SUMMARY

CALC. BY LCK DATE 12-31-84
CHKD. BY CEW DATE 1-3-85

OHIO
FHWA REGION 5

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COL-30-35.29

ITEM	64	66	68	71	74	77	79	82	84	85	87	89	91	95	233	ITEM EXT.	TOTAL FROM SHEET	TOTAL THIS SHEET	BID ITEM	BID QUAN.	BID UNIT	DESCRIPTION
																	43					
																						DRAINAGE - CONT
				200		1188			587			1067		1552		11100	-	4594	605	4594	LIN.FT.	6" SHALLOW PIPE UNDERDRAINS
																11100	1000	-	605	1000	LIN.FT.	6" SHALLOW ROCK CUT PIPE UNDERDRAINS 707.01 TYPE III, 707.21 TYPE III or 707.17
		950		635												12200	155	1585	605	1740	LIN.FT.	6" DEEP PIPE UNDERDRAINS
																13401	300	-	605	300	LIN.FT.	6" UNCLASSIFIED PIPE UNDERDRAIN (707.01 TYPE III or 707.21 TYPE III, AS PER PLAN)
																32200	30	-	605	30	LIN.FT.	AGGREGATE DRAINS FOR SPRINGS
	423	815	458	997	551	50	949	252	784		839	627	552			13300	-	7297	605	7297	LIN.FT.	6" UNCLASSIFIED PIPE UNDERDRAINS
																						SANITARY SEWER
					126											00900	100		603	100	L.F.	6" CONDUIT, TYPE B, 706.01 , 706.02 OR 706.08 W/JOINTS AS PER 706.11 OR 706.12
					164	135				27						00900	-	126	603	126	LIN. FT.	6" CONDUIT, TYPE B (706.08 WITH 706.12 JOINTS)
																01100	793	326	603	1119	LIN.FT.	6" CONDUIT, TYPE C (706.08 WITH 706.12 JOINTS)
																01100	100		603	100	L.F.	6" CONDUIT, TYPE C, 706.01, 706.02 OR 706.08 W/JOINTS AS PER 706.11 OR 706.12
																01800	117	-	603	117	LIN.FT.	8" CONDUIT, TYPE B (706.08 WITH 706.12 JOINTS)
																01801	73	-	603	73	LIN.FT.	8" CONDUIT, TYPE B (706.02 3000 D-LOAD WITH 706.12 JOINTS UNDER RAILROAD) AS PER PLAN
						255	143			55						03100	211	453	603	664	LIN.FT.	10" CONDUIT, TYPE B (706.08 WITH 706.12 JOINTS)
																03300	300	-	603	300	LIN. FT.	10" CONDUIT, TYPE C (706.08 WITH 706.12 JOINTS)
																03101	73	-	603	73	LIN.FT.	10" CONDUIT, TYPE B (706.02 3000D-LOAD WITH 706.12 JOINTS UNDER RAILROAD)AS PER PLAN
					2											31500	7	2	604	9	EACH	MANHOLE, NO. 3 WITH 706.11 JOINTS
										1						31500	2	1	604	3	EACH	MANHOLE, NO. 3 WITH DROP AND 706.11 JOINTS
							1									35501	1	1	604	2	EACH	MANHOLE RECONSTRUCTED WITH DROP PIPE, AS PER PLAN
					1											35500		1	604	1	EACH	MANHOLE RECONSTRUCTED TO GRADE
																						LANDSCAPING
						1400				6575					5994							BOTANICAL NAME - COMMON NAME / SIZE / CONDITION
															57	13000	-	13969	661	13,969	EACH	CORONILLA VARIA - CROWN VETCH / 2½" HT / POT
															10	12000		57	662	57	EACH	MYRICA PENNSYLVANICA - NORTHERN BAYBERRY / 3'-4' HT / B&B
															6	12000		10	662	10	EACH	VIBURNUM LANTANA - WAYFARINGTREE VIBURNUM / 3'-4' HT / B&B
															12	22000		6	663	6	EACH	AESCULUS HIPPOCASTANUM - COMMON HORSECHESTNUT / 3"-4" CAL. / B&B
																22000		12	663	12	EACH	GLEDITSIA TRICANTHOS INERMIS 'SHADEMASTER' - SHADEMASTER THORNLESS HONEYLOCUST / 3"-4" CAL. / B&B
															1500	98000		1500	659	1500	S.Y.	CROWN VETCH SEEDING
															.08	20000		.08	659	.08	TON	COMMERCIAL FERTILIZER
															840	30000		840	660	840	S.Y.	SODDING
															12	620 98100		12	SPECIAL	12	L.F.	STONE WALL

AA B/Pe 73202

SUB - SUMMARY

CALC. BY LCK DATE 12-31-84
CHKD. BY CEW DATE 1-3-85

OHIO
FHWA REGION 5

45
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COL-30-35.29

SHEET NUMBER																											BID			DESCRIPTION
ITEM,		4			28																		54	57	60	62		ITEM	QUAN.	UNIT	
																															WATERLINE
																									102	119	814	221	LIN.FT.	10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH ON JOINTS AND FITTINGS
																							453	562	17		814	1032	LIN.FT.	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH ON JOINTS AND FITTINGS
																								1			814	1	EACH	10" GATE VALVE AND VALVE BOX
																							3	2	1		814	6	EACH	6" GATE VALVE AND VALVE BOX
																								178			814	178	LIN.FT.	WATERMAIN ON STRUCTURE AS PER PLAN (See Sht. 30)
																							1				814	1	EACH	6" FIRE HYDRANT
																							1	2			814	3	EACH	FIRE HYDRANT REMOVED AND DISPOSED OF
																						3					814	3	EACH	PLUG EXISTING WATERMAIN
																								10			814	10	LIN.FT.	3/4" COPPER SERVICE BRANCH
																								1			814	1	EACH	SERVICE BOX ADJUSTED TO GRADE
		100, LUMP																									SPECIAL 614	100 LUMP	HOURS	LAW ENFORCEMENT OFFICER WITH PATROL CAR (See Sht. No. 4)
					LUMP,																						619	LUMP		MAINTAINING TRAFFIC
																														FIELD OFFICE

AA B/Pe 73202

GENERAL SUMMARY

CALC. BY LCK DATE 12-31-87
CHKD. BY CEW DATE 1-2-88

OHIO | FHWA REGION 5 | 46 / 362

COL-30-35.29

ITEM	64	66	68	71	75	77	80	82	85	87	89A	91	Item Ext.	TOTAL FROM SHEET	TOTAL THIS SHEET	BID ITEM	BID QUAN.	BID UNIT	DESCRIPTION
														45					
																			WATERWORK
	480		86					119	417	166			01804	221	1268	814	1489	LIN.FT.	10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH ON JOINTS AND FITTINGS
										39	2	310	01204		351	814	351	LIN.FT.	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH ON JOINTS AND FITTINGS
	26	75	405		372	128	28		268	7	22	14	00604	1032	1345	814	2377	LIN.FT.	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH ON JOINTS AND FITTINGS
		38		34					10				00104	–	82	814	82	LIN.FT.	4" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH ON JOINTS AND FITTINGS
			1					1	1				08000	1	3	814	4	EACH	10" GATE VALVE AND VALVE BOX
										1			07900		1	814	1	EACH	8" GATE VALVE AND VALVE BOX
	2	2			2		1		2		1	1	07800	6	11	814	17	EACH	6" GATE VALVE AND VALVE BOX
													98600	178	–	814	178	LIN.FT.	10" WATERMAIN ON STRUCTURE, AS PER PLAN
	2	1			1		1		1		1	1	10200	1	8	814	9	EACH	6" FIRE HYDRANT
				1			1						10500	–	2	814	2	EACH	FIRE HYDRANT REMOVED AND RESET
					1	1	1		1		1	1	10700	3	6	814	9	EACH	FIRE HYDRANT REMOVED AND DISPOSED OF
		1	1	6	5		3	5	1	2		1	10800	–	25	814	25	EACH	VALVE BOX ADJUSTED TO GRADE
			2	1															
				2	1		3						98000	3	6	814	9	EACH	PLUG EXISTING WATERMAIN
	10				5				5				04800	10	20	814	30	LIN.FT.	¾" COPPER SERVICE BRANCH
	10							5					04900	–	15	814	15	LIN.FT.	1" COPPER SERVICE BRANCH
	5												05100	–	5	814	5	LIN.FT.	2" COPPER SERVICE BRANCH
	4			14	3			1					10900	1	22	814	23	EACH	SERVICE BOX ADJUSTED TO GRADE
																			LIGHTING
																			FOR LIGHTING QUANTITY SUMMARY SEE SHT(S) 236
																			TRAFFIC CONTROL
																			FOR TRAFFIC CONTROL QUANTITY SUMMARY SEE SHT(S) 252, 253
																			RETAINING WALLS
																			FOR RETAINING WALL QUANTITY SUMMARY SEE SHT(S) 271, 273, 275, 277B
																			STRUCTURES
																			FOR STRUCTURE QUANTITY SUMMARY SEE SHT(S) 281, 305, 308
													11100	100	–	SPECIAL	100	HOURS	LAW ENFORCEMENT OFFICER WITH PATROL CAR
													11000	LUMP	–	614	LUMP		MAINTAINING TRAFFIC
													10000	LUMP	–	619	LUMP		FIELD OFFICE
													10000	LUMP	–	623	LUMP		CONSTRUCTION LAYOUT STAKES
													10000	LUMP	–	624	LUMP		MOBILIZATION

CALC. BY L.C.K. DATE 12-14-84
CALC. BY C.E.W. DATE 12-18-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

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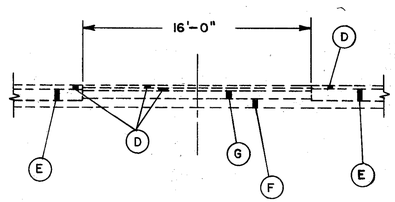
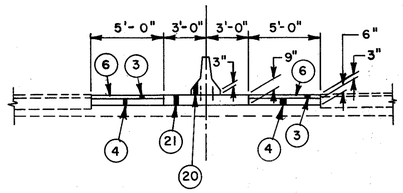
COL-30 ℄ 35.29



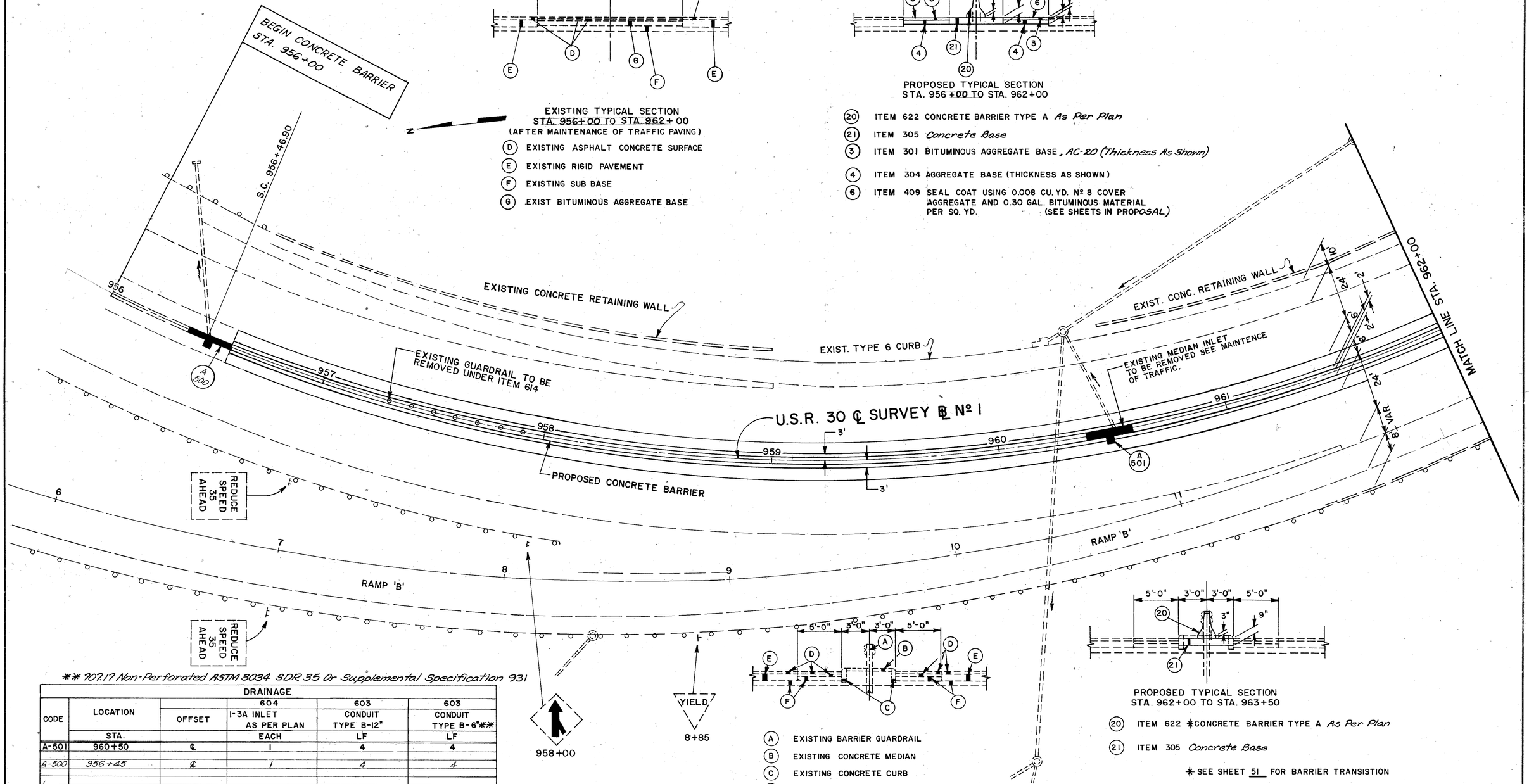
EXISTING TYPICAL SECTION
STA. 956+00 TO STA. 962+00
(AFTER MAINTENANCE OF TRAFFIC PAVING)

(D) EXISTING ASPHALT CONCRETE SURFACE
(E) EXISTING RIGID PAVEMENT
(F) EXISTING SUB BASE
(G) EXIST BITUMINOUS AGGREGATE BASE



PROPOSED TYPICAL SECTION
STA. 956+00 TO STA. 962+00

(20) ITEM 622 CONCRETE BARRIER TYPE A *As Per Plan*
(21) ITEM 305 *Concrete Base*
(3) ITEM 301 BITUMINOUS AGGREGATE BASE, *AC-20 (Thickness As Shown)*
(4) ITEM 304 AGGREGATE BASE (THICKNESS AS SHOWN)
(6) ITEM 409 SEAL COAT USING 0.008 CU. YD. Nº 8 COVER AGGREGATE AND 0.30 GAL. BITUMINOUS MATERIAL PER SQ. YD. (SEE SHEETS IN PROPOSAL)



** 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

CODE	LOCATION	OFFSET	DRAINAGE 604 I-3A INLET AS PER PLAN EACH	603 CONDUIT TYPE B-12" LF	603 CONDUIT TYPE B-6"** LF
	STA.				
A-501	960+50	℄	1	4	4
A-500	956+45	℄	1	4	4
TOTAL			2	8	8

(A) EXISTING BARRIER GUARDRAIL
(B) EXISTING CONCRETE MEDIAN
(C) EXISTING CONCRETE CURB
(D) EXISTING ASPHALT CONCRETE SURFACE
(E) EXISTING RIGID PAVEMENT
(F) EXISTING SUB BASE

EXISTING TYPICAL SECTION
STA. 962+00 TO STA. 963+50

PROPOSED TYPICAL SECTION
STA. 962+00 TO STA. 963+50

(20) ITEM 622 ✳CONCRETE BARRIER TYPE A *As Per Plan*
(21) ITEM 305 *Concrete Base*

✳ SEE SHEET 51 FOR BARRIER TRANSITION

SCALE
20 10 0 20 40

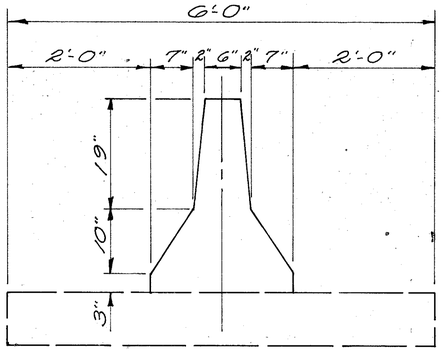
STA. 956+55 TO STA. 962+00

38720

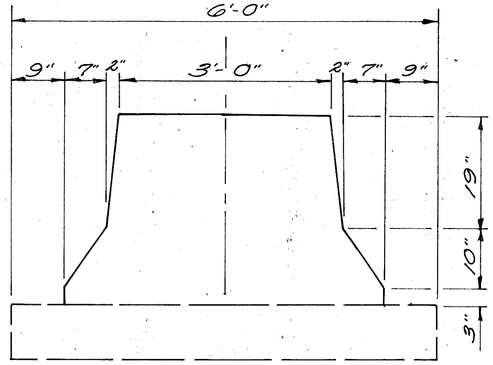
FHWA REGION	STATE	PROJECT	
5	OHIO	U - 457 (14)	

51
362

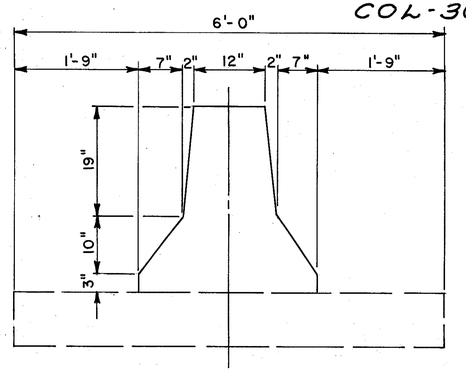
COL-30 35.29



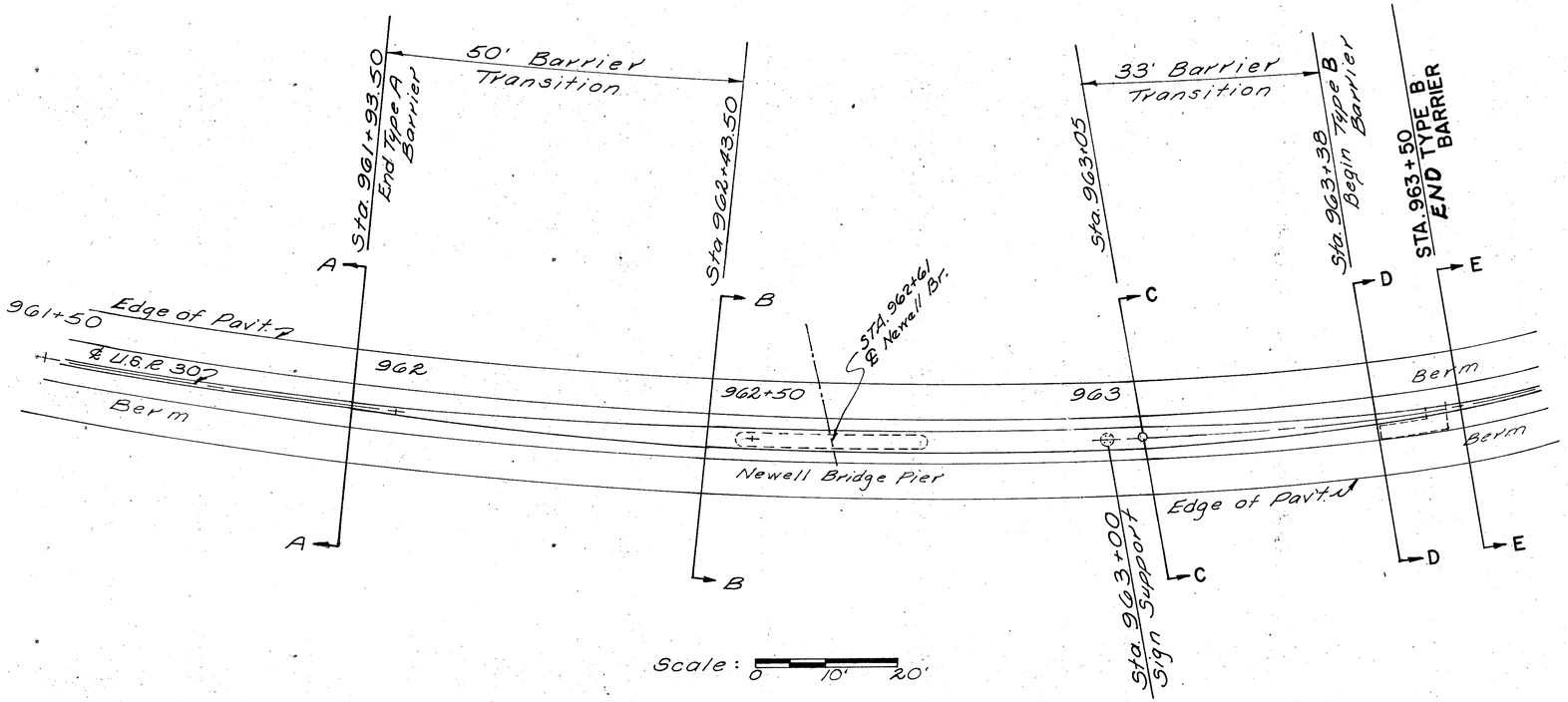
SECTION A-A



SECTION B-B & CC



SECTION D-D & E-E



CONCRETE BARRIER DETAIL
AT NEWELL BRIDGE PIER

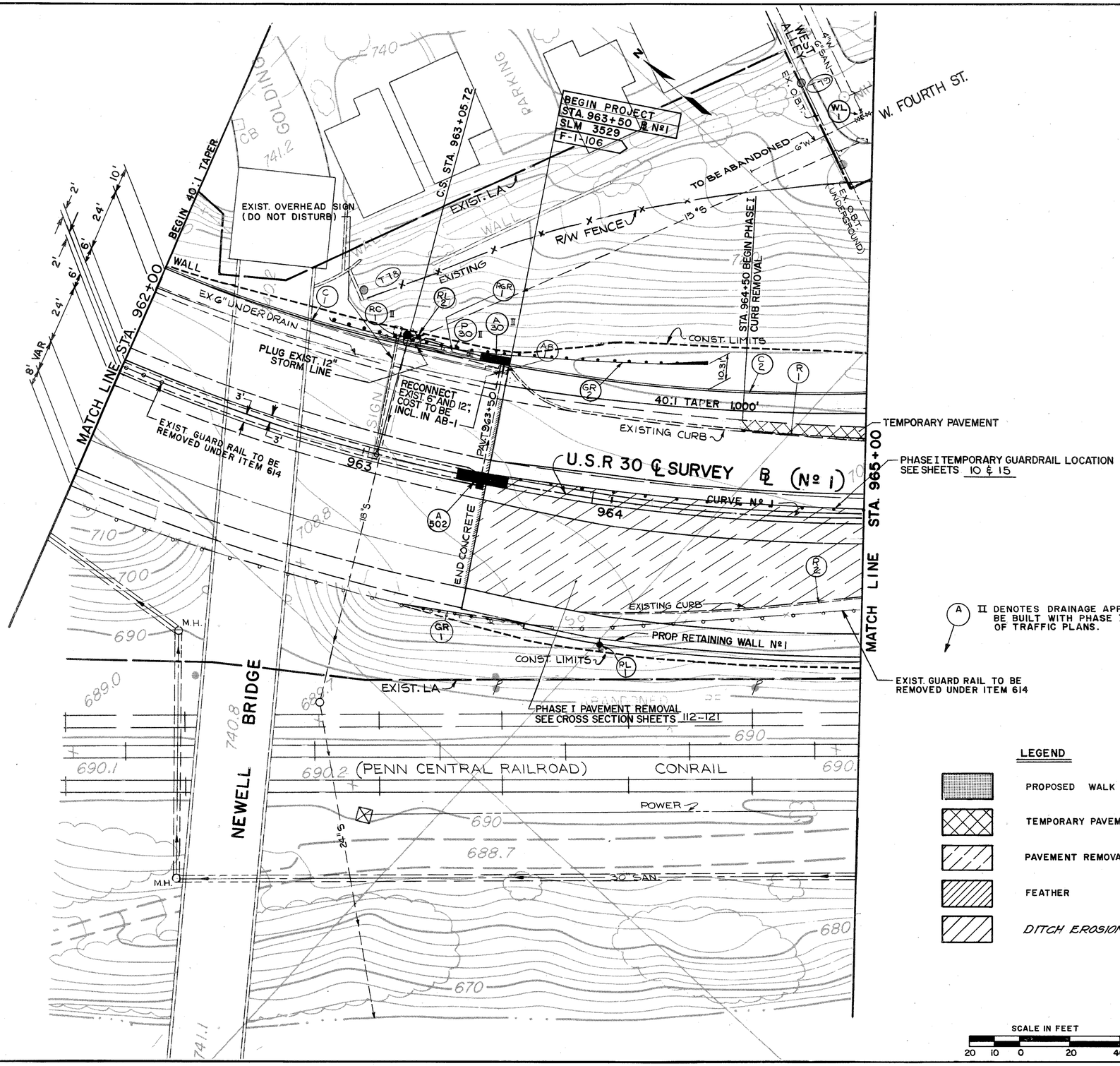
STA. 961+93.50 TO STA. 963+50

CONCRETE BARRIER TRANSITION

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

52
362

COL - 30 - 35.29



BASELINE NO 1 CURVE NO 1 DATA

DELTA = 14°57'00" LT

1 =	12°45'11"	2 =	2°11'49"
Dc =	8°30'00"	Dc =	1°28'00"
R =	674.07'	R =	3906.53'
LS =	300.00'	T1 =	186.09'
X =	297.64'	T2 =	115.46'
Y =	29.78'	P =	4.60'

LC = 299.12'

A II DENOTES DRAINAGE APPURTENANCE TO BE BE BUILT WITH PHASE II MAINTENANCE OF TRAFFIC PLANS.

LEGEND

- PROPOSED WALK
- TEMPORARY PAVEMENT
- PAVEMENT REMOVAL
- FEATHER
- *DITCH EROSION PROTECTION*

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	54
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52 53 55 58 61 63 65 67 69 72 73 76 78 81 83 86 88 90 92 93 94

SCALE IN FEET
20 10 0 20 40

STA. 962+00 TO STA. 965+00

CALC. BY _____ DATE _____
CHK'D BY _____ DATE _____

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

53
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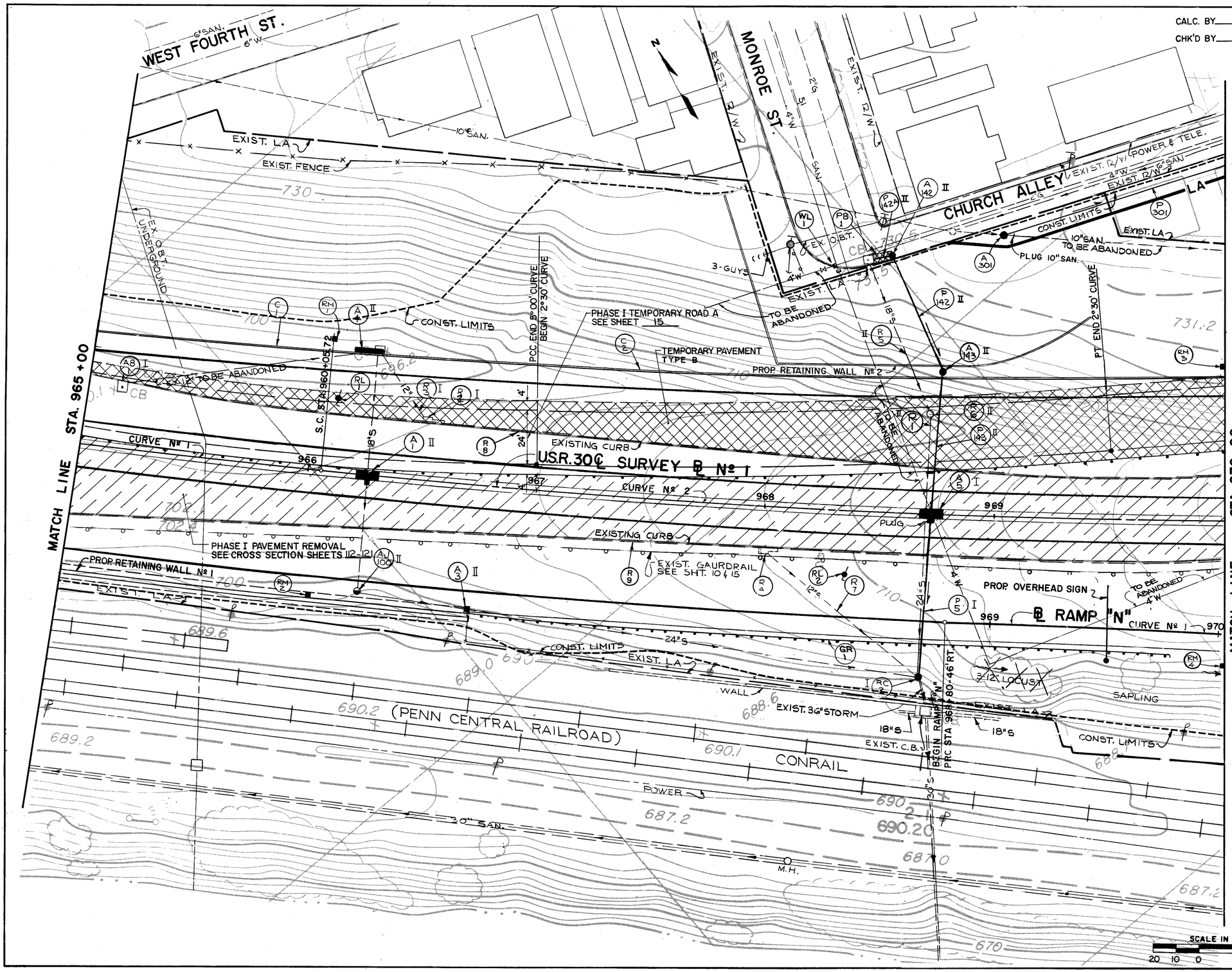
COL - 30 - 35.29



SCALE IN FEET
20 10 0 20 40

STA. 965+00 TO STA. 970+00

BASELINE NO 1 CURVE NO 2 DATA

P I STA 972+23.26
DELTA = 17°57'57" LT
Dc = 1°28'00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

BASELINE NO 1 CURVE NO 1 DATA

DELTA = 14°57'00" LT
1 = 12°45'11" 2 = 2°11'49"
Dc = 8°30'00" Dc = 1°28'00"
R = 674.07' R = 3906.53'
LS = 300.00' T1 = 186.09'
X = 297.64' T2 = 115.46'
Y = 29.78' P = 4.60'
LC = 299.12'

BASELINE RAMP N
CURVE NO 1 DATA

P I STA 971+12.63
DELTA = 4°39'00" RT
Dc = 1°00'00"
R = 5729.58'
T = 232.63'
L = 465.00'
CH = 464.87'
E = 4.72'

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	54
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52 53 55 58 61 63 65 67 69 72 73 76 78 81 83 86 88 90 92 93 94

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 52

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL REMOVED 202 LIN FT		LIGHT POLE & FND. REMOVED 202 EACH	CURB REMOVED 202 LIN FT	CURB, TYPE 6 609 LIN FT		
RGR-1	962+94	963+35	LT B/L NO 1	41						
RL-1	964+03		RT B/L NO 1			1				
RL-2	963+10		LT B/L NO 1			1				
C-1	962+00	963+38	LT B/L NO 1					138		
C-2	963+50	965+00	LT B/L NO 1					150		
R-1	963+50	965+00	LT B/L NO 1				151			
R-2	963+95	965+00	RT B/L NO 1				112			
TOTAL				41		2	263	288		

ESTIMATED QUANTITIES
SHEET NO. 52

CODE	LOCATION FROM	LOCATION TO	OFFSET	INLET ABANDONED 202 EACH	12" CONDUIT TYPE B 603 LIN FT	MANHOLE RECONST. TO GRADE 604 EACH	INLET NO 2A-12 604 EACH	12" CONDUIT TYPE C 603 LIN FT	I-3B INLET AS PER PLAN 604 EACH	6"CONDUIT TYPE B * 603 L.F.
A-30	963+48		45.70 LT B/L NO 1				1			
AB-1	963+48		43.50 LT B/L NO 1	1	5					
RC-1	963+05		48.50 LT B/L NO 1			1				
P-30	A-30	RC-1						38		
A-502	963+48		C/L B/L NO. 1		4				1	4
TOTAL				1	9	1	1	38	1	4

ESTIMATED QUANTITIES
SHEET NO. 52

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL, TYPE 5 606 LIN FT	ANCHOR ASSEMBLY, TYPE A 606 EACH	TYPE T ANCHOR ASSEMBLY, 606 EACH	BRIDGE TERMINAL ASSEMBLY, TYPE A 606 EACH	PLUG EXISTING WATERMAIN 814 EACH		
GR-1	963+25	RET WALL	RT B/L NO 1	50			1			
GR-2	962+75	964+32	LT B/L NO 1	112.5	1	1				
WL-1	W. FOURTH ST. AT WEST ALLEY							1		
TOTAL				162.5	1	1	1	1		

ESTIMATED QUANTITIES
SHEET NO. 53

CODE	LOCATION FROM	LOCATION TO	OFFSET	CATCH BASIN ABANDONED 202 EACH	INLET REMOVED 202 EACH	MANHOLE REMOVED 202 EACH	PIPE REMOVED 24 AND UNDER 202 LIN FT		
AB-1	965+15		27 LT B/L NO 1	1					
R-1	R-6	968+70	4 RT B/L NO 1				48		
R-2	966+52		26 LT B/L NO 1		1				
R-4	968+00		19 RT B/L NO 1		1				
R-5	EX-CB	R-6					69		
R-3	R-2	A-4					33		
R-6	968+71		43 LT B/L NO 1			1			
R-7	R-4	RC-2	RT B/L NO 1				88		
TOTAL				1	2	1	238		

ESTIMATED QUANTITIES
SHEET NO. 53

CODE	LOCATION FROM	LOCATION TO	OFFSET	LIGHT POLE & FND. REMOVED 202 EACH	CURB REMOVED 202 LIN FT	CURB, TYPE 6 609 LIN FT	PLUG EXISTING WATERMAIN 814 EACH		
RL-1	966+10		LT B/L NO 1	1					
RL-2	968+36		RT B/L NO 1	1					
R-8	965+00	970+00	LT B/L NO 1		500				
R-9	965+00	970+00	RT B/L NO 1		500				
C-1	965+00	966+15	LT B/L NO 1			115			
C-2	966+28	970+00	LT B/L NO 1			372			
WL-1	MONROE ST. AT CHURCH ALLEY						2		
TOTAL				2	1000	487	2		

ESTIMATED QUANTITIES
SHEET NO. 53

CODE	LOCATION FROM	LOCATION TO	OFFSET	MANHOLE NO. 3 W/706.11 JTS 604 EACH	INLET NO. 1-3B 604 EACH	INLET NO. 1-3B MODIFIED, AS PER PLAN 604 EACH	INLET NO. 2A-12 604 EACH		
A-1	966+26		B/L NO 1		1				
A-3	966+75.53		58.00 RT B/L NO 1			1			
A-4	966+26		54.65 LT B/L NO 1				1		
A-5	968+72		B/L NO 1		1				
A-301	969+03		122.50 LT B/L NO 1	1					
TOTAL				1	2	1	1		

CALC. BY E.H.C. DATE 2-13-84
CHK'D BY L.C.K. DATE 12-10-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL - 30 - 35.29

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* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES
SHEET NO. 53

CODE	LOCATION FROM	LOCATION TO	OFFSET	10" CONDUIT TYPE C 706.08 W/706.12 JTS 603 LIN FT	18" CONDUIT TYPE B 603 LIN FT	24" CONDUIT TYPE B 603 LIN FT	18" CONDUIT TYPE (707.13) 603 LIN FT	9" CONCRETE BASE 305 SQ YD		
P-5	A-5	RC-2				72				
P-142	A-142	A-143					59			
P-142A	EX-CB	A-142			12					
P-143	A-143	A-5				62				
P-301	A-301	MATCHLINE		100						
PB-1	EXIST CB	A-142						5.33		
TOTAL				100	12	134	59	5.33		

ESTIMATED QUANTITIES
SHEET NO. 53

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL, TYPE 5 606 LIN FT	ANCHOR ASSEMBLY, TYPE T 606 EACH	BRIDGE TERMINAL ASSEMBLY, TYPE J 606 EACH	REFERENCE MONUMENT 604 EACH		
GR-1	RET WALL	969+82	RT B/L NO 1	294	1	1			
RM-1	966+05.72		58 LT B/L NO. 1				1		
RM-2	966+05.72		53.5 RT B/L NO. 1				1		
RM-3	970+00		67 LT B/L NO. 1				1		
RM-4	970+00		63 RT B/L NO. 1				1		
TOTAL				294	1	1	4		

ESTIMATED QUANTITIES
SHEET NO. 53

CODE	LOCATION FROM	LOCATION TO	OFFSET	MANHOLE ADJ. TO GRADE 604 EACH	MANHOLE RECONST. TO GRADE 604 EACH	MANHOLE NO 1 604 EACH	MANHOLE NO 2 604 EACH		
AJ-100	966+26		51 RT B/L NO 1	1					
RC-2	968+70.17		71.67 RT B/L NO 1		1				
A-142	968+51.5		112 LT B/L NO 1				1		
A-143	968+75		62 LT B/L NO 1			1			
TOTAL				1	1	1	1		

QUANTITIES

CALC. BY E.H.C. DATE 1-9-84
CHK'D BY L.C.K DATE 12-10-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL - 30 - 35.29

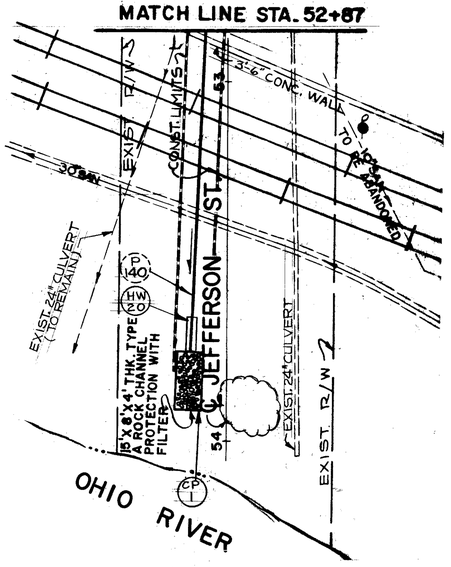
BASELINE RAMP L
CURVE NO 1 DATA
P I STA 974+26.51
DELTA = 20°10'30" LT
Dc = 4°30'00"
R = 1273.24'
T = 226.51'
L = 448.34'
CH = 446.02'
E = 19.99'

BASELINE NO 1 CURVE NO 2 DATA
P I STA 972+23.26
DELTA = 17°57'57" LT
Dc = 1°28'00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

BASELINE RAMP N
CURVE NO 1 DATA
P I STA 971+12.63
DELTA = 4°39'00" RT
Dc = 1°00'00"
R = 5729.58'
T = 232.63'
L = 465.00'
CH = 464.87'
E = 4.72'

BASELINE RAMP N
CURVE NO 2 DATA
P I STA 975+31.72
DELTA = 7°54'18" LT
Dc = 5°00'00"
R = 1145.92'
T = 79.18'
L = 158.10'
CH = 157.98'
E = 2.73'

MATCH LINE STA. 52+67



CROSS-REFERENCE

52 53 55 58 61 63 65 72 67 69 78 73 76 86 81 83 90 88 93 92 94

STA. 970+00 TO STA. 975+00

AA B/P

ESTIMATED QUANTITIES SHEET NO. 55				LIGHT POLE FND. REMOVED	CURB REMOVED		CURB, TYPE 6	COMBINATION CURB AND GUTTER TYPE 2
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 LIN FT		609 LIN FT	609 LIN FT
RL-1	970+37		LT B/L NO 1	1				
R-3	970+79	971+35	LT B/L NO 1		94			
R-4	970+86	971+50	LT B/L NO 1		68			
R-5	971+69	974+20	LT B/L NO 1		270			
R-6	974+20	974+31	LT & RT B/L NO 1		148			
R-7	974+35		RT B/L NO 1		20			
R-8	974+35	974+70	RT B/L NO 1		105			
R-9	974+90	974+95	RT B/L NO 1		83			
R-10	974+60	974+90	RT & LT B/L NO 1		110			
R-11	974+56	975+00	LT B/L NO 1		65			
R-12	971+52	974+05	LT B/L NO 1		267			
R-13	973+95	974+05	LT B/L NO 1		50			
R-14	974+30	974+40	LT B/L NO 1		50			
R-15	974+42	975+00	LT B/L NO 1		60			
R-29	974+25	974+57	LT B/L NO 1		33			
R-41	974+70	974+95	RT B/L NO 1		24			
C-1	970+00	971+87	LT B/L NO 1				187	
C-2	972+02	972+50	LT B/L NO 1				48	
C-3	972+58	972+98	LT B/L NO 1				33	
C-4	973+08	974+30	LT B/L NO 1					122
C-5	49+25	49+27	C/L JEFFERSON				11	
C-6	973+72	975+00	LT B/L NO 1				128	
C-7	974+45	975+00	LT B/L NO 1					52
TOTAL				1	1447		407	174

ESTIMATED QUANTITIES SHEET NO. 55				WALL REMOVED	STEPS REMOVED	WALK REMOVED	GUTTER REMOVED	HEAD WALL REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 LUMP	202 SQ FT	202 L.F.	202 LUMP
R-1	971+77	971+83	LT B/L NO 1		lump	72		
R-2	971+82	971+91	LT B/L NO 1			124		
R-16	971+52	971+92	LT B/L NO 1	1				
R-17	973+00	973+12	LT B/L NO 1			72		
R-18	972+15	972+45	LT B/L NO 1	1				
R-19	972+72	973+04	LT B/L NO 1	1				
R-20	972+90	973+12	LT B/L NO 1	1				
R-21	973+10	973+45	LT B/L NO 1			350		
R-22	973+75	974+08	LT B/L NO 1	1	lump			
R-23	974+20		LT B/L NO 1				20	
R-24	974+33	975+00	LT B/L NO 1			800		
R-25	974+60		LT B/L NO 1				20	
R-26	974+55	974+68	LT B/L NO 1	1				
R-27	974+70	974+80	LT B/L NO 1	1				
R-28	974+79	975+00	LT B/L NO 1	1				
R-30	974+90		RT B/L NO 1				72	
R-31	974+90		RT B/L NO 1					1 lump
R-32	974+65		RT B/L NO 1					1 lump
R-38	972+04	972+20	LT B/L NO 1			200		
R-39	971+68	971+92	LT B/L NO 1			240		
R-40	973+85	973+08	LT B/L NO 1			340		
TOTAL				8	LUMP	2198	112	LUMP

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ESTIMATED QUANTITIES SHEET NO. 55				MANHOLE NO 1	MANHOLE NO 2	CATCH BASIN NO. 2-4 WITH WINDOWS	CATCH BASIN NO 5A	DITCH EROSION PROTECTION
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH	604 EACH	670 SQ YD
A-10	974+50		6 RT B/L NO 1		1			
A-20	49+10		C/L JEFFERSON	1				
A-140	974+74		161 RT B/L NO 1			1		
A-141	974+60		53 RT B/L NO 1				1	
EC-1	973+00	A-141	RT B/L NO 1					133
TOTAL				1	1	1	1	133

ESTIMATED QUANTITIES SHEET NO. 55				INLET NO 2A-8	INLET 2A-12 W/CONC APRON	INLET NO 2A-10	INLET NO I-3R	INLET NO 2A-16
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH	604 EACH	604 EACH
A-6	973+00		8 LT B/L RAMP L			1		
A-7	972+60		8 LT B/L RAMP L	1				
A-8	972+00		75 LT B/L NO 1					1
A-9	972+00		B/L NO 1				1	
A-19	49+10		15 RT C/L JEFFERSON		1			
A-21	49+10		14 LT C/L JEFFERSON		1			
A-22	974+32		8 LT B/L RAMP L					1
TOTAL				1	2	1	1	2

ESTIMATED QUANTITIES SHEET NO. 55				MANHOLE ABND.	CATCH BASIN REMOVED	PIPE REMOVED 24" & UNDER	CONCRETE MASONRY	ROCK CHANNEL PROTECTION, TYPE A W/FILTER
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 EACH	202 LIN FT	602 CU YD	601 CU YD
AB-1	970+52		114 LT B/L NO 1	1				
AB-2	970+82		12 LT B/L NO 1	1				
R-33	974+03		131 LT B/L NO 1		1			
R-34	R-33	R-23				79		
R-35	974+43		139 LT B/L NO 1		1			
R-36	974+44		122 LT B/L NO 1		1			
R-37	R-35	R-25				80		
HW-20	53+76		11 RT C/L JEFFERSON				1.79	
CM-1	A-303	A-304					13.00	
CP-1	53+76	53+91	11 RT C/L JEFFERSON					17.8
TOTAL				2	3	159	14.79	17.8

ESTIMATED QUANTITIES SHEET NO. 55				GUARDRAIL, TYPE 4		REFERENCE MONUMENT
CODE	LOCATION FROM	LOCATION TO	OFFSET	606 LIN FT		604 EACH
GR-1	49+12		C/L JEFFERSON	37.5		
RM-5	974+00		47 LT B/L NO. 1			1
RM-6	974+00		47 RT B/L NO. 1			1
TOTAL				37.5		2

QUANTITIES

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 55

CODE	LOCATION FROM	LOCATION TO	OFFSET	10" CONDUIT TYPE C 706.08 W/706.12 JTS	MANHOLE STD. NO. 3 W/706.11 JTS	MANHOLE STD. NO. 3 W/DROP & 706.11 JTS	10" CONDUIT TYPE B 706.08 W/706.12 JTS	6" CONDUIT TYPE C 706.08 W/706.12 JTS	10" CONDUIT TYPE B 706.02 3000 D LOAD W/706.12 JTS UNDER RAILROAD AS PER PLAN
				603	604	604	603	603	603
				LIN FT	EACH	EACH	LIN FT	LIN FT	LIN FT
P-301	MATCHLINE	A-302		29					
P-302	A-302	A-303		78					
P-303	A-303	A-304		93					
P-304	A-304	A-305					211		73
P-306	A-306	A-303						214	
P-307	MATCHLINE	A-306						163	
A-302	970+30		164 LT B/L NO 1		1				
A-303	971+10		158 LT B/L NO 1			1			
A-304	971+36		73 LT B/L NO 1		1				
A-305	972+07		198 RT B/L NO 1			1			
A-306	973+30		167 LT B/L NO. 1		1				
TOTAL				200	3	2	211	377	73

ESTIMATED QUANTITIES
SHEET NO. 55

CODE	LOCATION FROM	LOCATION TO	OFFSET	24" CONDUIT TYPE C	27" CONDUIT TYPE B	42" CONDUIT TYPE C	42" CONDUIT TYPE B 706.02 1250 D-LOAD	42" CONDUIT TYPE B 706.02 3000 D LOAD (AS PER PLAN) UNDER RAILROAD
				603	603	603	603	603
				LIN FT	LIN FT	LIN FT	LIN FT	LIN FT
P-9	A-6	A-22		130				
P-10	A-10	A-141			47			
P-22	A-22	A-10			95			
P-29	A-141	975+00	53 RT B/L NO 1			42		
P-141	A-141	A-140					111	
P-140	A-140	HW-20						109
TOTAL				130	142	42	111	109

ESTIMATED QUANTITIES
SHEET NO. 55

CODE	LOCATION FROM	LOCATION TO	OFFSET	12" CONDUIT TYPE B	15" CONDUIT TYPE B	18" CONDUIT TYPE C	21" CONDUIT TYPE B	21" CONDUIT TYPE C (707.13)
				603	603	603	603	603
				LIN FT	LIN FT	LIN FT	LIN FT	LIN FT
P-6	A-7	A-6						40
P-7	A-8	A-7				60		
P-8	A-9	A-8			67			
P-19	A-19	A-20		14				
P-20	A-20	A-22						108
P-21	A-21	A-20		15				
P-133	A-20	49+07	C/L JEFFERSON				4	
TOTAL				29	67	60	4	148

ESTIMATED QUANTITIES
SHEET NO. 55

CODE	LOCATION FROM	LOCATION TO	OFFSET		6" WATER MAIN DUCTILE IRON PIPE MJ CLASS 53 PUSH ON JOINTS AND FITTINGS		FIRE HYDRANT	6' GATE VALVE & VALVE BOX
					814		814	814
					LIN FT		EACH	EACH
WL-1	971+02	971+13	LT B/L NO 1		38			1
WL-2	971+13	975+00	LT B/L NO 1		370			1
WL-3	48+85	49+15	RT C/L JEFF.		35			
WL-4	48+90		21 RT C/L JEFF.		10		1	1
TOTAL					453		1	3

ESTIMATED QUANTITIES
SHEET NO. 55

CODE	LOCATION FROM	LOCATION TO	OFFSET	FIRE HYDRANT REMOVED & DISPOSED OF	
				814	
				EACH	
WL-5	THIRD ST. AT JEFFERSON ST.			1	
WL-6	THIRD ST. AT JEFFERSON ST.				
TOTAL				1	

CALC. BY E.H.C DATE 2-13-84
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	FHWA REGION	STATE	PROJECT	
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QUANTITIES

CALC. BY E.H.C. DATE 1-9-84
CHK'D BY L.C.K. DATE 1-10-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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BEGIN WORK STA. 48+25 JACKSON ST.
TAPER 0" TO 6" THRU RADIUS
10'R.
15' FEATHER
18" MAPLE
JACKSON
MATCH LINE STA. 48+75
12" MAPLE
SEWER LATERAL
10'EASEMENT
CONST. LIMITS
PROP. 6" W.M.
3' CONC. WALK
2' CONC. WALL
BUSH
EXIST. R/W
18" STUMP
CONC. WALK
6" SAN.
8" G
TO BE ABANDONED
WEST THIRD ST.
RAMP "L" CURVE Nº 2
RAMP "L"
TO BE ABND.
RAMP "L" CURVE Nº 1
SAPLINGS
REGULATOR (GAS CO)
16" FDN.
CONC.
12" CHERRY
CONC. WALK
CONC. SLAB
BRICK
EXIST. R/W
P.R.C. STA. 976+48.34
EAST ALLEY
MATCH LINE STA. 975+00
16" CHERRY
16" CHERRY
FENCE
2'8" PINE
BUSH
18" CHERRY
16" LOCUST
2-16" LOCUST
16" LOCUST
18" LOCUST
16" STUMP
12" LOCUST
36" MAPLE
4' STONE WALL
U.S.R 30 ℄ SURVEY ℄ Nº 1
CURVE Nº 2
12" MAPLE
10" MAPLE
FDN. WALL
18" TWIN LOCUST
5' STONE WALL
CENTER LANE
7'-6" DITCH EROSION PROTECTION
3' STONE WALL
2" G
6" SAN.
EXIST. R/W
TO BE ABANDONED
30" OAK
EXIST. 12" W
EXIST. 2" G
MATCH LINE SEE SHEET Nº 61
SAPLINGS
BUSHES
EXIST. WATER SERVICE TO REMAIN
SEWER LATERAL
18" CONC. WALL
EXIST. R/W
PARKING
DEFLECT PIPE JOINT (≤4°)
5'-0"
EXIST. 3/4" WATER SERV. TO BE ABANDONED
1' CONC. WALL
CONC. WALK
8W
END CURB & GUTTER BEGIN TYPE 6 ℄ W
8" G
6" SAN.
EXIST. 3/4" WATER SERVICE TO BE ABANDONED
℄
978
979
737.0
S 67°23'34" E
TO BE ABND.
EXIST. R/W
STA. 50+08.0 ~ 26.5' RT. ℄ JACKSON ST.
10" X 10" TEE
10" X 6" REDUCER
P.T. STA. 978+79.86
WING WALL
BEGIN WALK STA. 979+52 RAMP "L"
P.T.
STA. 49+33.0 ~ 26.5' RT. ℄ JACKSON ST. {6"-45° BEND
STA. 49+45.0 ~ 26.5' RT. ℄ JACKSON ST. {6" X 6" X 6" TEE
MATCH LINE STA. 48+75
18" MAPLE
EX R/W & CONST. LIMITS
BRICK WALK
STA. 49+03.0 ~ 1'± RT. ℄ JACKSON ST. {6" X 4" REDUCER, 6"-45° BEND
PROP. 6" W.M.
PROP. 6" W.M.
END WALK STA. 979+62 RAMP "L"
TO BE ABANDONED
26'-5"
FH
MH
PROP. 10" W.M.
BEGIN APPROACH SLAB STA. 50+43.62
S 22° 40' 09" W
63.865
JACKSON ST.
PAVEMENT
51'-3"
SEE SHEET Nº 63 FOR WATERLINE DETAILS IN THIS AREA
TO BE ABANDONED
3-16" CHERRIES
7'-6" DITCH EROSION PROTECTION
3' STONE WALL
2 CHERRY
12" LOCUST
4' STONE WALL
1' STONE WALL
3' STONE WALL
2' STONE WALL
PROP. 10" W.M.
P.C.C. STA. 978+30.67
CURVE Nº 3
980
979
BRICK
EXIST. 12" W
STA. 980+14.79 ℄ US 30
STA. 51+70.86 - JACKSON
26'-5"
52
16°25'24" LT
TO LOC. TAN.
3-16" MAPLES
30" MAPLE
12" OAK
3 WIRE FE
EXIST. 12" W
7'-6" DITCH EROSION PROTECTION
EXIST. 12" W
MATCH LINE SEE SHEET Nº 61

BASELINE NO 1 CURVE NO 2 DATA
P I STA 972+23.26
DELTA = 17°57'57" LT
Dc = 1°28'00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

BASELINE NO 1 CURVE NO 3 DATA
P I STA 985+04.94
DELTA = 13°25'26" LT
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.36'
CH = 1339.31'
E = 39.54'

BASELINE RAMP "L" CURVE NO 1 DATA
P I STA 974+26.51
DELTA = 20°10'30" LT
Dc = 4°30'00"
R = 1273.24'
T = 226.51'
L = 448.34'
CH = 446.02'
E = 19.99'

BASELINE RAMP L CURVE NO 2 DATA
P I STA 977+64.24
DELTA = 6°56'44" RT
Dc = 3°00'00"
R = 1909.86'
T = 115.90'
L = 231.52'
CH = 231.38'
E = 3.51'

PROP. STRUCTURE DATA NO. COL-30-35 60

TYPE: CONTINUOUS STEEL GIRDERS WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE
SPAN: 95'-0" & 81'-0" c/c BRGS.
ROADWAY: 48'-0" F/F CURBS WITH 6'-0" SIDEWALK ON BOTH SIDES
SKEW: 3° 30' 31" LT. FWD.
ALIGNMENT: STRAIGHT
LIVELOAD: HS-20-44 CASE II AND ALTERNATE MILITARY LOADING
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLAB: 30'-0" (AS-1-81)
SUPERELEVATION: NONE
SLOPE PROTECTION: CONCRETE, 601.06
TRAFFIC COUNT: ADT (2010) 6400
ADTT (2010) 330
BRIDGE LIMITS: 180.50'

BRIDGE Nº COL-30-35 60
JACKSON STREET
OVER U.S. 30

SCALE IN FEET
20 10 0 20 40

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	59 - 60
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52 53 55 58 61 63 65 67 69 72 73 76 78 81 83 86 88 90 92 93 94

STA. 975+00 TO STA. 980+00

AA B/P

ESTIMATED QUANTITIES SHEET NO. 58				WALK REMOVED	CONC WALL REMOVED	CONC SLAB REMOVED	CURB REMOVED	CONC STEPS REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 SQ FT	202 EACH	202 SQ FT	202 LIN FT	202 LUMP
R-1	975+10	975+17	LT B/L NO 1		1			
R-2	975+35	975+45	LT B/L NO 1	220				
R-3	975+00	977+00	LT B/L NO 1				207	
R-4	975+00	977+00	LT B/L NO 1	1782				
R-5	976+00	976+90	LT B/L NO 1		1			
R-6	977+35	979+25	LT B/L NO 1		1			
R-7	977+20	979+70	LT B/L N/ 1	2300				
R-8	977+20	49+85	LT B/L 1 - JACKSON				300	
R-9	975+87	976+50	LT B/L NO 1	610				
R-10	975+00	977+07	LT B/L NO 1				212	
R-11	976+72	977+07	LT B/L NO 1	525				
R-12	977+07	977+27	LT B/L NO 1				20	
R-13	977+27	979+75	LT B/L NO 1	2400				
R-14	977+24	50+35	LT B/L 1 - JACKSON				275	
R-15	50+35	51+65	RT JACKSON				135	
R-16	977+40	978+04	LT B/L NO 1		1			
R-17	975+35	975+72	RT B/L NO 1		1			
R-20	976+45	977+33	RT B/L NO 1		1			
R-22	978+37	978+62	LT B/L NO 1		1			
R-23	978+34	978+52	B/L NO 1		1			
R-24	978+63	978+92	LT B/L NO 1		1			
R-26	979+15	979+34	LT B/L NO 1		4			
R-27	978+85	979+75	LT B/L NO 1		5			
R-28	979+82	979+96	LT B/L NO 1	690				
R-29	975+15	975+70	LT B/L NO 1					lump
R-30	975+65		LT B/L NO 1	28				
R-31	975+90	976+00	LT B/L NO 1	128				
R-32	976+27		LT B/L NO 1	20				lump
R-33	978+03		LT B/L NO 1	30				lump
R-34	978+28	978+44	LT B/L NO 1	40				lump
R-35	978+73	978+97	LT B/L NO 1	65				lump
R-36	975+60	975+90	LT B/L NO 1	176				
R-37	976+20	976+50	LT B/L NO 1			116		
R-38	979+74	979+95	LT B/L NO 1	960				
R-39	48+50	49+85	RT C/L JACKSON				140	
TOTAL				9974	18	116	1289	LUMP

ESTIMATED QUANTITIES SHEET NO. 58				4" CONCRETE WALK	CURB RAMPS, TYPE 1	CURB, TYPE 6	COMBINATION CURB AND GUTTER TYPE 2	PAVEMENT REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	608 SQ FT	608 EACH	609 LIN FT	609 LIN FT	202 SQ YD
S-1	979+51	48+40	LT RAMP L - JACKSON	1060				
S-2	979+51	50+42	RT RAMP L - JACKSON	315				
CR-1	49+72		RT C/L JACKSON		1			
C-1	975+00	979+00	LT RAMP L				400	
C-2	979+00	48+40	RAMP L - JACKSON			215		
C-3	979+44	50+42	RAMP L - JACKSON			66		
C-4	975+00	976+93	LT B/L NO 1			193		
C-5	977+03	978+53	LT B/L NO 1			150		
C-6	976+97	977+15	LT B/L NO 1			16		
R-40	53+20	51+62	RT C/L JACKSON					245
TOTAL				1375	1	640	400	245

ESTIMATED QUANTITIES SHEET NO. 58				GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE A	15" CONDUIT TYPE C	15" CONDUIT TYPE B	GUARDRAIL TYPE 4
CODE	LOCATION FROM	LOCATION TO	OFFSET	606 LIN FT	606 EACH	606 EACH	603 LIN FT	603 LIN FT	606 LIN. FT.
GR-1	976+98	977+17	LT B/L NO 1						25
GR-2	976+48	BRIDGE	RT B/L RAMP L	337.5	1	1			
P-12	A-12	A-203						10	
P-15	A-15	A-202					10		
TOTAL				337.5	1	1	10	10	25

ESTIMATED QUANTITIES SHEET NO. 58				12" CONDUIT TYPE B	15" CONDUIT TYPE B (707.13)	15" CONDUIT TYPE C (707.13)	18" CONDUIT TYPE B	REFERENCE MONUMENT
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	603 LIN FT	603 LIN FT	603 LIN FT	604 EACH
P-13	A-13	A-14			102			
P-25	MATCHLINE	A-137					7	
P-26	A-26	A-137		9				
P-28	MATCHLINE	A-138		7				
P-35	A-12	A-35			158			
P-150	A-150	A-13				82		
RM-7	978+30.67		47 LT B/L NO. 1					1
RM-8	978+30.67		47 RT B/L NO. 1					1
TOTAL				16	260	82	7	2

CALC. BY E.H.C. DATE 2-13-84
CHK'D BY L.C.K. DATE 12-10-84

	FHWA REGION	STATE	PROJECT	
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ESTIMATED QUANTITIES SHEET NO. 58				21" CONDUIT TYPE B	21" CONDUIT TYPE C (707+13)	42" CONDUIT TYPE B	42" CONDUIT TYPE C	12" CONDUIT TYPE C
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	603 LIN FT	603 LIN FT	603 LIN FT	603 LIN FT
P-14	A-14	A-29		97				
P-16	A-16	A-15				8		
P-17	A-17	A-29					157	
P-27	A-27	A-16			87			
P-29	A-29	975+00	53 RT B/L NO 1				200	
P-134	A-134	A-26						75
P-137	A-137	A-138		42				
P-138	A-138	A-27		138				
P-202	A-202	A-203				50		
P-203	A-203	A-17				48		
TOTAL				277	87	106	357	75

ESTIMATED QUANTITIES SHEET NO. 58				MANHOLE ABND.	MANHOLE NO. 1	CATCH BASIN NO. 3A	CATCH BASIN NO. 5A	INLET NO. I-3B
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	604 EACH	604 EACH	604 EACH	604 EACH
AB-1	979+52		178 LT B/L NO 1	1				
A-12	978+57		B/L NO. 1					1
A-16	978+47		53 LT B/L NO. 1				1	
A-17	978+47		53 RT B/L NO 1				1	
A-27	978+46		20.5 RT B/L RAMP L		1			
A-29	977+00		53 RT B/L NO. 1				1	
A-35	980+15		7 RT B/L NO 1		1			
A-137	49+55		10 RT C/L JACKSON		1			
A-138	49+97		10 RT C/L JACKSON		1			
A-150	977+21		88 LT B/L RAMP L			1		
TOTAL				1	4	1	3	1

QUANTITIES

AA 8/F

CALC. BY E.H.C DATE 2-13-84
CHK'D BY L.C.K. DATE 12-10-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

ESTIMATED QUANTITIES
SHEET NO. 58

CODE	LOCATION FROM	LOCATION TO	OFFSET	INLET, NO. 2A-6 MODIFIED 604 EACH	INLET NO. 2A-8 604 EACH	INLET NO 2A-12 604 EACH	INLET NO 2A-20 604 EACH	MANHOLE NO 2 604 EACH
A-13	977+00		8 LT B/L RAMP L				1	
A-14	977+00		42 LT B/L NO. 1		1			
A-15	978+57		42 LT B/L NO. 1	1				
A-26	49+50		18 RT C/L JACKSON			1		
A-134	48+75		18 RT C/L JACKSON			1		
A-202	978+47		45 LT B/L NO. 1					1
A-203	978+47		5 RT B/L NO. 1					1
TOTAL				1 ✓	1 ✓	2 ✓	1 ✓	2 ✓

ESTIMATED QUANTITIES
SHEET NO. 58

CODE	LOCATION FROM	LOCATION TO	OFFSET	10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT	10" GATE VALVE & VALVE BOX 814 EACH	6" GATE VALVE & VALVE BOX 814 EACH	WATERLINE ON STRUCTURE AS PER PLAN 814 LIN FT
WL-1	975+00	49+45	B/L NO 1-JACKSON		448			
WL-2	49+45	50+08	RT C/L JACKSON	2	61		1	
WL-3	50+08	52+59	RT C/L JACKSON	73		1		178
WL-4	50+08		RT C/L JACKSON	27				
TOTAL				102	509 ✓	1 ✓	1 ✓	178 ✓

ESTIMATED QUANTITIES
SHEET NO. 58

CODE	LOCATION FROM	LOCATION TO	OFFSET	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT	6" GATE VALVE & VALVE BOX 814 EACH		FIRE HYDRANT REMOVED & DISPOSED OF 814 EACH	3/4" COPPER SERVICE BRANCH 814 LIN FT	SERVICE BOX ADJUSTED TO GRADE 814 EACH
WL-5	49+45	49+03	RT C/L JACKSON	53	1		1		
WL-6	THIRD ST. AT		JACKSON ST.						
WL-7	THIRD ST. AT		JACKSON ST.						
WL-8	THIRD ST. AT		JACKSON ST.				1		
WL-9	977+82		65' LT & RAMP "L"					5	
WL-10	978+70		57' LT & RAMP "L"					5	
WL-11	948+90		27' RT & JACKSON ST.						1
TOTAL				53	1		2	10	1

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplement Specification 931

ESTIMATED QUANTITIES
SHEET NO. 58

CODE	LOCATION FROM	LOCATION TO	OFFSET	PAVED GUTTER TYPE 1-2 601 LIN FT	6" CONDUIT * TYPE F 603 EACH	6" DEEP UNDERDRAINS 605 LIN FT	DITCH EROSION PROTECTION 670 SQ YD
G-1	MATCHLINE	979+87	RT B/L NO 1	30			
G-2	MATCHLINE	979+78	LT B/L NO 1	30			
U-21	MATCHLINE	A-15	LT B/L NO 1		10	155	
EC-2	975+40	A-29	RT B/L NO 1				133
EC-3	A-29	A-17	RT B/L NO 1				141
EC-4	979+87	A-17	RT B/L NO 1				117
EC-5	979+80	A-16	LT B/L NO 1				102
TOTAL				60 ✓	10 ✓	155 ✓	493 ✓

ESTIMATED QUANTITIES
SHEET NO. 58

CODE	LOCATION FROM	LOCATION TO	OFFSET	6" CONDUIT TYPE F W/706.12 JTS 603 LIN FT	MANHOLE STD NO 3 W/706.11 JTS 604 EACH
P-307	A-307	MATCHLINE		133	
P-308	A-308	A-307		283	
A-307	976+33.5		201 LT B/L NO 1		1
A-308	979+26		217.5 LT B/L NO 1		1
TOTAL				416 ✓	2 ✓

QUANTITIES

CALC. BY E.C. DATE 2-9-84
CHK'D BY L.K. DATE 12-11-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL - 30 - 35.29

MATCH LINE SEE SHEET Nº 58

MATCH LINE SEE SHEET Nº 55

MATCH LINE SEE SHEET Nº 65

RAMP "N" CURVE Nº 2 — P.T. STA. 976+10.84 — STA. 976+50 — S 51°17'34" E — RAMP "N" — STA. 978+90 — STA. 978+68.07 — RAMP "N" CURVE Nº 3 980 — S 67°23'34" E

WEST FIRST ST. — WEST SECOND ST. — EAST ALLEY — JACKSON ST.

CURVE Nº 1 — P.C. STA. 47+87.55 — P.T. STA. 49+37.83 — S 56° 04' 51" E

P.C. STA. 48+86.11 — P.C. STA. 49+15.87

END APPR. SLAB. STA. 52+84.12 — PROP. 10" W.M. — BRIDGE Nº COL 30 -3560 JACKSON ST. OVER U.S. 30 — END WALK STA. 53+10.96

(PENN CENTRAL RAILROAD) — CONRAIL — R/W — EXIST. R/W — CONST. LIMITS — TO BE ABANDONED — NEET EXIST. PAVEMENT — STA. 54+61 - SAW CUT MEET EXIST. - BUTT JOINT — END WORK STA. 54+61 JACKSON ST.

16" CHERRY — 20" MAPLE — 150' TAPER — 30" MAPLE — 16" LOCUST — 12" EVERGREENS — 3 STONE WALL — 16" FERN — 20" CHERRY BUSH — 5 CONC. STEPS — 18" OAK — SAPLINGS — BRICK WALK — 18 MAPLE BRICK WALK — 12" CHERRY SAPLINGS — 4' CONC WALL — 3' CONC. WALL — R.R. POLE — POWER — POWER & CABLE T.V. — 6" SAN. — 10" SAN. — 30" SAN. — 10" G — 6" SAN. — 4" W — 8" W — 10" W — 24" STORM — 18" FROM EAST — 24" STORM TO RIVER — C.B. — 10" SAW. TO REMAIN — TO BE ABAND — WALLS — WALL — FENCE — 16" TILE — EXIST. CONC. PAV'T — SIGNAL — MH — 2" G — EX. TELE. — EXIST. R/W — 2 POWER

STA. 53+20.0 - 26.5 RT. & JACKSON ST. { 10°45" BEND }

STA. 53+44 - 3' ℄ & JACKSON ST. { 10°45" BEND }

PROP. 6" W.M.
STA. 53+68 - 3' RT. & JACKSON ST. { 10"×10"×6" TEE, 10"×6" REDUCER }

PROP. 6" W.M.
STA. 53+81.0 - 3' RT. & JACKSON ST. { 6" SOLID SLEEVE }

BASELINE RAMP N CURVE NO 2 DATA	
P I STA	975+31.72
DELTA =	7°54'18" LT
Dc =	5°00'00"
R =	1145.92'
T =	79.18'
L =	158.10'
CH =	157.98'
E =	2.73'

BASELINE RAMP N CURVE NO 3 DATA	
P I STA	979+49.11
DELTA =	16°06'00" LT
Dc =	10°00'00"
R =	572.96'
T =	81.03'
L =	161.00'
CH =	160.47'
E =	5.70'

W. FIRST STREET	
P.I. STA.	48+36.86
DELTA =	4°55'41" LT
D =	5°00'00"
R =	1145.92'
T =	49.31'
L =	98.56'
CH =	98.53'
E =	1.06'

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	62
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

				63	67	73	81					
			58	65	69	76	83	88	92	96		
52	53	55	61		72	78	86	90	93			

PROPOSED STRUCTURE DATA COL. 30-35.60

TYPE: CONTINUOUS STEEL GIRDERS WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE

SPAN: 95'-0" & 81'-0" c/c BRGS.

ROADWAY: 48'-0" F/F CURBS WITH 6'-0" SIDEWALK ON BOTH SIDES

SKEW: 3° 30' 31" LT. FWD.

ALIGNMENT: STRAIGHT

LIVELOAD: HS-20-44 CASE II AND ALTERNATE MILITARY LOADING

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLAB: 30'-0" (AS-1-81)

SUPERELEVATION: NONE

SLOPE PROTECTION: CONCRETE, 601.06

TRAFFIC COUNT: ADT (2010) 6400
ADTT (2010) 330

BRIDGE LIMITS: 180.50'

SCALE IN FEET
20 10 0 20 40

RT. ℄ 30-39
STA. 975+00 TO STA. 980+00

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 61

CODE	LOCATION FROM	LOCATION TO	OFFSET	WALL REMOVED 202 EACH	STEPS REMOVED 202 LUMP	WALK REMOVED 202 SQ FT	CURB REMOVED 202 LIN FT	CONCRETE SLAB REMOVED 202 SQ FT
R-1	975+27	977+12	RT B/L NO 1	1	lump			
R-2	977+30	977+35	RT B/L NO 1	1				
R-3	976+95	977+22	RT B/L NO 1	1				
R-4	979+06	979+36	RT B/L NO 1	1				
R-5	979+77		RT B/L NO 1	1				
R-6	977+60	977+80	RT B/L NO 1			153		
R-7	977+90		RT B/L NO 1	1		30		
R-8	978+04		RT B/L NO 1			84		
R-9	978+70		RT B/L NO 1			168		
R-10	978+33	979+05	RT B/L NO 1			568		
R-11	975+00	980+00	RT B/L NO 1				640	
R-12	975+00	977+45	RT B/L NO 1				265	
R-13	977+57	980+00	RT B/L NO 1				330	
R-14	978+77	978+95	RT B/L NO 1					98
R-15	977+90	978+90				500		
TOTAL				6	LUMP	1503	1235	98

ESTIMATED QUANTITIES
SHEET NO. 61

CODE	LOCATION FROM	LOCATION TO	OFFSET	4" CONCRETE WALK 608 SQ FT	CURB, TYPE 6 609 LIN FT	GUARDRAIL, TYPE 5 606 LIN FT	ANCHOR ASSEMBLY, TYPE A 606 EACH	BRIDGE TERMINAL ASSEMBLY, TYPE A 606 EACH
C-1	52+79	53+34	RT C/L JACKSON		92			
S-1	52+54	53+11	RT C/L JACKSON	319				
GR-1	BRIDGE	53+10	RT C/L SECOND			25	1	1
TOTAL				319	92	25	1	1

ESTIMATED QUANTITIES
SHEET NO. 61

CODE	LOCATION FROM	LOCATION TO	OFFSET	MANHOLE ABND. 202 EACH	12" CONDUIT TYPE B 603 LIN FT	CATCH BASIN NO. 5 604 EACH	CATCH BASIN NO 2-3 604 EACH	PAVEMENT REMOVED 202 SQ YD
AB-1	45+71		14 RT C/L FIRST	1				
P-139	A-139	A-18			64			
A-18	54+48		16 RT C/L JACKSON				1	
A-139	49+38		21 LT C/L FIRST			1		
R-18	53+72	54+61	LT C/L JACKSON					120
TOTAL				1	64	1	1	120

ESTIMATED QUANTITIES
SHEET NO. 61

CODE	LOCATION FROM	LOCATION TO	OFFSET	10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT	6" GATE VALVE & VALVE BOX 814 EACH
WL-1	52+58	53+65	RT C/L JACKSON	117		
WL-2	53+65	53+81	RT C/L JACKSON	2	14	1
WL-3	53+65		RT C/L JACKSON		3	
TOTAL				119	17	1

ESTIMATED QUANTITIES
SHEET NO. 61

CODE	LOCATION FROM	LOCATION TO	OFFSET	CATCH BASIN ABANDONED 202 EACH	PIPE REMOVED 24" AND UNDER 202 LIN FT	8" CONDUIT TYPE B SEE NOTE 3 W/706.08 W/706.12 JTS 603 LIN FT	MANHOLE STD NO 3 W/706.11 JTS 604 EACH	MANHOLE RECONSTRUCTED WITH DROP SIDE AS PER PLAN 604 EACH	8" CONDUIT TYPE B 706.02 3000 D LOAD UNDER RAILROAD AS PER PLAN 604 LIN. FT.
R-16	53+05		16 RT C/L JACKSON	1					
R-17	R-16	53+85	16 RT C/L JACKSON		75				
P-314	A-314	A-315				117			73
A-314	53+33		24 RT C/L JACKSON				1		
A-315	55+24		24 RT C/L JACKSON					1	
TOTAL				1	75	117	1	1	73

CALC. BY E.H.C. DATE 2-14-84
CHK'D BY L.C.K. DATE 12-10-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

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QUANTITIES

CALC. BY_____ DATE _____
CHK'D BY_____ DATE _____

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL - 30-35.29

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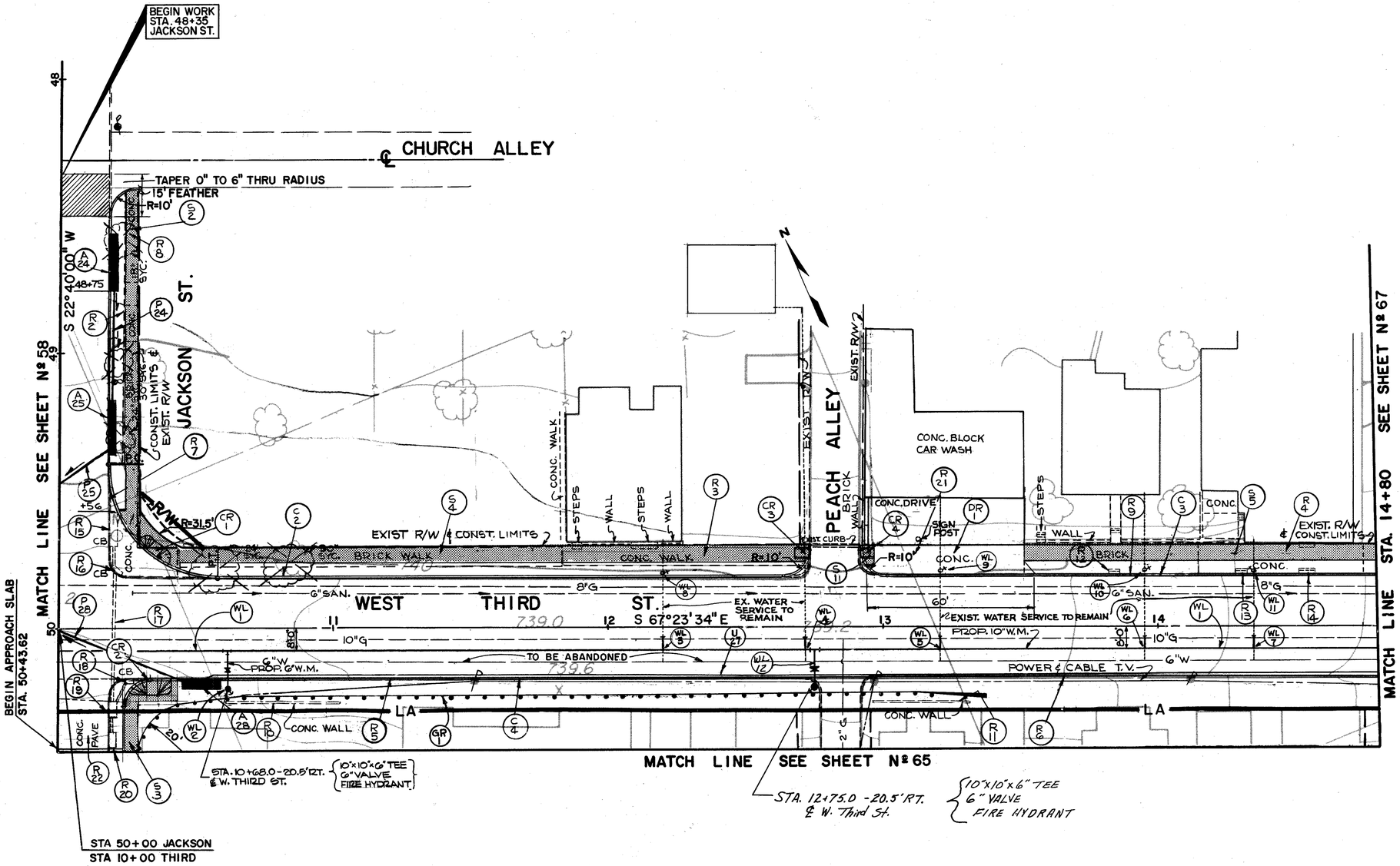

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	64
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52 53 55 58 61 63 65 67 69 72 73 76 78 81 83 86 88 90 92 93 94

SCALE IN FEET
20 10 0 20 40

LT. ℄ 30-39
STA. 980+00 TO STA. 985+00

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 63

CODE	LOCATION FROM	LOCATION TO	OFFSET	CURB REMOVED 202 LIN FT	WALK REMOVED 202 SQ FT	WALL REMOVED 202 EACH	STEPS REMOVED 202 EACH	DRIVE APPROACH REMOVED 202 SQ FT
R-2	48+82	48+96	LT C/L JACKSON					96
R-3	11+83	12+74	LT C/L THIRD ST		720			
R-4	14+15	14+75	LT C/L THIRD ST		660			
R-5	50+45	12+72	JACKSON TO THIRD	283				
R-6	12+92	14+80	RT C/L THIRD ST	195				
R-7	48+40	12+73	JACKSON TO THIRD	410				
R-8	48+40	49+74	LT C/L JACKSON		170			
R-9	12+92	14+80	LT C/L THIRD ST	195				
R-10	10+60	11+03	RT C/L THIRD ST			1		
R-11	12+96	13+32	RT C/L THIRD ST			1		
R-12	13+84		LT C/L THIRD ST				1	
R-13	14+30		LT C/L THIRD ST				1	
R-14	14+55		LT C/L THIRD ST				1	
R-21	12+92	13+52	LT C/L THIRD ST					1479
TOTAL				1083 ✓	1550 ✓	2 ✓	3 ✓	1575 ✓

ESTIMATED QUANTITIES
SHEET NO. 63

CODE	LOCATION FROM	LOCATION TO	OFFSET	CATCH BASIN REMOVED 202 EACH	PIPE REMOVED 24" & UNDER 202 LIN FT	PAVED GUTTER REMOVED 202 LIN FT	INLET NO 2A-14 604 EACH	INLET NO 2A-20 604 EACH
R-15	49+65		20 LT C/L JACKSON	1				
R-16	49+81		21 LT C/L JACKSON	1				
R-17	R-15	R-20			68			
R-18	50+21		26 LT C/L JACKSON	1				
R-19	50+30		20 LT C/L JACKSON	1				
R-20	50+43		20 LT C/L JACKSON			6		
A-24	48+75		18 LT C/L JACKSON					1
A-25	49+35		18 LT C/L JACKSON					1
A-28	10+47		18 RT C/L THIRD				1	
TOTAL				4 ✓	68 ✓	6 ✓	1 ✓	2 ✓

ESTIMATED QUANTITIES
SHEET NO. 63

CODE	LOCATION FROM	LOCATION TO	OFFSET	CURB RAMPS TYPE 1 608 EACH	CURB RAMPS TYPE 2 608 EACH	4" CONCRETE WALK 608 SQ FT	CURB, TYPE 6 609 LIN FT	8" PLAIN CONCRETE PAVEMENT 452 SQ YD
CR-1	10+32		LT C/L THIRD ST	1				
CR-2	10+32		RT C/L THIRD ST	1				
S-1	12+92	12+97	LT C/L THIRD ST			40		
S-2	48+40	49+56	LT C/L JACKSON			580		
S-3	50+45	10+44	JACKSON TO THIRD			260		
S-4	49+56	12+73	JACKSON TO THIRD			1600		
S-5	13+52	14+80	LT C/L THIRD ST			768		
C-2	48+40	12+73	JACKSON TO THIRD				394	
C-3	12+92	14+80	LT C/L THIRD ST				196	
C-4	50+45	14+80	JACKSON TO THIRD				478	
DR-1	12+92	13+52	LT C/L THIRD ST					70
CR-3	12+74		LT C/L THIRD ST.		1			
CR-4	12+92		LT C/L THIRD ST.					
TOTAL				2 ✓	2 ✓	3248 ✓	1068 ✓	70 ✓

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES
SHEET NO. 63

CODE	LOCATION FROM	LOCATION TO	OFFSET	6" CONDUIT TYPE F * 603 LIN FT	12" CONDUIT TYPE B 603 LIN FT	18" CONDUIT TYPE B 603 LIN FT	18" CONDUIT TYPE C 603 LIN FT	6" UNCLASSIFIED PIPE UNDERDRAINS 605 LIN FT
P-24	A-24	A-25					60	
P-25	A-25	MATCHLINE				26		
P-28	A-28	MATCHLINE			55			
U-27	A-28	14+80	THIRD STREET	10				423
TOTAL				10 ✓	55 ✓	26 ✓	60 ✓	423 ✓

ESTIMATED QUANTITIES
SHEET NO. 63

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL, TYPE 5 606 LIN FT	ANCHOR ASSEMBLY, TYPE A 606 EACH	PAVEMENT REMOVED 202 SQ YD
GR-1	50+44	13+38	JACKSON TO THIRD	293.75	1	
R-22	50+18	50+45	LT C/L JACKSON			52
TOTAL				293.75 ✓	1 ✓	52 ✓

CALC. BY E.H.C. DATE 2-14-84
CHK'D BY L.C.K. DATE 12-11-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

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ESTIMATED QUANTITIES
SHEET NO. 63

CODE	LOCATION FROM	LOCATION TO	OFFSET	10" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN. FT.	6" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN. FT.	FIRE HYDRANT 814 EACH	6" GATE VALVE & VALVE BOX 814 EACH	3/4" SERVICE BRANCH 814 LIN. FT.	1" SERVICE BRANCH 814 LIN. FT.	2" SERVICE BRANCH 814 LIN. FT.	SERVICE BOX ADJUSTED TO GRADE 814 EACH
WL-1	10+00	14+80	8' RT C/L THIRD	480							
WL-2	10+68		RT C/L THIRD		13	1	1				
WL-3	12+20		8' RT C/L THIRD						5		
WL-4	12+72		8' RT C/L THIRD					5			
WL-5	13+20		8' RT C/L THIRD							5	
WL-6	13+95		8' RT C/L THIRD					5			
WL-7	14+35		8' RT C/L THIRD						5		
WL-8	12+20		21' LT C/L THIRD								1
WL-9	13+20		21' LT C/L THIRD								1
WL-10	13+95		21' LT C/L THIRD								1
WL-11	14+35		21' LT C/L THIRD								1
WL-12	12+75		20.5 RT C/L THIRD		13	1	1				
TOTALS				480	26	2	2	10	10	5	4

QUANTITIES

CALC. BY E.C. DATE 2-9-84
CHK'D BY L.K. DATE 12-10-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL - 30 - 35.29

MATCH LINE SEE SHEET Nº 63

MATCH LINE SEE SHEET Nº 58 & 61

MATCH LINE STA. 985+00

BRIDGE Nº COL-30-3560
JACKSON STREET
OVER U.S. 30

S 22° 40' 09" W

STREET

ALLEY

CENTER

JACKSON

PEACH

WEST SECOND STREET

STA. 980+14.79 ℄ US 30
STA. 51+70.86 ℄ JACKSON ST.

BEGIN TAPER STA. 981+50

50:1 TAPER

CURVE Nº 3

86°29'24" ∆
TO LOC. TAN.

U.S.R 30 ℄ SURVEY ℄ Nº 1

END APPROACH SLAB
STA. 52+84.12

END WALK
STA. 53+06

P.C.

PROP. OVERHEAD SIGN

STA. 53+41.98 JACKSON
STA. 10+00 SECOND

STA. 54+61 - SAW CUT
MEET EXIST. BUTT JOINT

END WORK
STA. 54+61
JACKSON ST.

EX. WATER SERVICE TO REMAIN

PROP. 6" W.M.

EXIST. CONC. PAVEMENT

CONST. LIMITS

24" TILE

STA. 10+61-23.01℄ {6"-90° BEND
℄ W. SECOND ST. {6"x4" REDUCER
FIRE HYDRANT
STA. 10+48.0-20.5℄ {6" VALVE
℄ W. SECOND ST. {6"-90° BEND
6"x6"x6" TEE

STA. 10+68 - 4.5℄ LT. {4"-45° BEND}
℄ W. SECOND ST. 6" SAN.

EX. WATER SERVICE TO REMAIN

TO BE ABANDONED

PROP. 4" W.M.

FUTURE WATER MAIN

S 67° 23' 34" E

EXIST. R/W & CONST. LIMITS

EXIST. HEADER CURB

EXIST. R/W

UNPAVED POWER ALLEY

12482

DRIVE 11+30

DRIVE 13+33

DRIVE 14+24 GRAVEL

DRIVE 14+90

CONC. BLDG.

EXIST. 2 STY FRAME HSE

EXIST. HEADER CURB

BRICK GUTTER

CONC. WALK

BRICK WALK

EXIST. CONC. WALK

EXIST. R/W

EXIST. 2" G

EXIST. 6" SAN.

EXIST. 4" W

EXIST. POWER, TELE. & CABLE T.V.

TO BE ABAN. 6" SAN.

2" G

6" G

8" STORM

4" W

POWER & CABLE T.V.

BRICK

CONC.

3' STONE WALL

4' STONE WALL

3' CONC. WALL

4' CONC. WALL

1' CONC. WALL

2'-0" STONE WALL

6' STONE WALL

7'-6" DITCH EROSION PROTECTION

730

710

700

696.3

699.4

714.7

714.2

60" MAPLE
36" MAPLE
30" MAPLE
24" MAPLE
18" MAPLE
12" MAPLE
24" STUMP
4' QUAD.

981 982 983 984

1 2 3 4

51 52 53 54

SCALE IN FEET
20 10 0 20 40

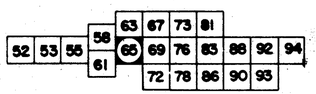
PROPOSED STRUCTURE DATA COL 30-35.60

TYPE: CONTINUOUS STEEL GIRDERS WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE
SPAN: 95'-0" & 81'-0" c/c BRGS.
ROADWAY: 48'-0" F/F CURBS WITH 6'-0" SIDEWALK ON BOTH SIDES
SKEW: 3° 30' 31" LT. FWD.
ALIGNMENT: STRAIGHT
LIVELOAD: HS-20-44 CASE II AND ALTERNATE MILITARY LOADING
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLAB: 30'-0" (AS-1-81)
SUPERELEVATION: NONE
SLOPE PROTECTION: CONCRETE, 601.06
TRAFFIC COUNT: ADT (2010) 6400
ADTT (2010) 330
BRIDGE LIMITS: 180.50'

BASELINE NO 1 CURVE NO 3 DATA

P I STA 985+04.94
DELTA = 13°25'26" LT
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.36'
CH = 1339.31'
E = 39.54'

CROSS-REFERENCE



STA. 980+00 TO STA. 985+00

AA B/P

ESTIMATED QUANTITIES SHEET NO. 65				CURB REMOVED	WALK REMOVED	WALL REMOVED	PAVEMENT REMOVED	CONCRETE SLAB REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 LIN FT	202 SQ FT	202 EACH	202 SQ YD	202 SQ YD
R-1	53+84	PEACH	RT C/L JACKSON	287				
R-2	10+51	10+76	RT C/L SECOND		125			
R-3	51+77	11+18	JACKSON - 2ND		2595			
R-4	11+52	12+75	RT C/L SECOND		1230			
R-5	PEACH	14+89	RT C/L SECOND	206				
R-6	12+90	14+89	RT C/L SECOND		2000			
R-7	10+18	12+76	LT C/L SECOND	265				
R-8	51+78	53+23	LT C/L JACKSON	160				
R-9			PEACH ALLEY	15				
R-10	12+93	14+89	LT C/L SECOND	204				
R-11	11+50	12+15	LT C/L SECOND			1		
R-19	983+50		60 RT B/L NO. 1			1		
R-20	984+00		100 RT B/L NO. 1			1		
R-21	12+93	14+22	LT C/L SECOND		650			
R-23	984+30	984+90	25 RT B/L NO. 1			1		
R-24	50+47	51+60	LT C/L JACKSON	120				
R-25	980+45	981+40	LT B/L NO. 1			1		
R-26	981+26	982+84	LT B/L NO. 1			3		
R-27	983+43	983+68	LT B/L NO. 1			1		
R-28	983+11	983+70	LT B/L NO. 1			1		
R-29	984+90	985+00	LT B/L NO. 1			2		
R-30	53+72	54+61	LT C/L JACKSON				148	
R-31	50+45	51+60	LT C/L JACKSON				224	
R-32	52+59	53+13	LT C/L JACKSON					294
TOTAL				1257	6600	12	372	294

ESTIMATED QUANTITIES SHEET NO. 65				CURB, TYPE 6	4" CONCRETE WALK	CURB RAMP TYPE 1	6" PLAIN CONCRETE	8" PLAIN CONCRETE
CODE	LOCATION FROM	LOCATION TO	OFFSET	609 LIN FT	608 SQ FT	608 EACH	452 SQ YD	452 SQ YD
C-1	52+85.9	14+89	JACKSON - SECOND	479				
C-2	10+16.4	14+89	JACKSON - SECOND	487				
S-1	52+57	53+06	LT C/L JACKSON		294			
S-2	10+20.5	11+25	RT C/L SECOND ST		680			
S-3	11+35	12+75	RT C/L SECOND ST		840			
S-4	12+89	13+14	RT C/L SECOND ST		150			
S-5	13+52	14+19	RT C/L SECOND ST		402			
S-6	14+29	14+75	RT C/L SECOND ST		276			
CR-1	10+41		LT C/L SECOND			1		
CR-2	10+41		RT C/L SECOND			1		
DR-1	11+30		RT C/L SECOND				17	
DR-2	13+33		RT C/L SECOND					54
DR-3	14+24		RT C/L SECOND				17	
DR-4	14+90		RT C/L SECOND ST					41
DR-5	12+82		RT C/L SECOND ST					21
TOTAL				966	2642	2	34	116

CALC. BY E.H.C. DATE 2-14-84
CHK'D BY L.C.K. DATE 12-10-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

66
362

COL - 30 - 35.29

ESTIMATED QUANTITIES SHEET NO. 65				GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE A	TYPE A BRIDGE TERMINAL ASSEMBLY	REFERENCE MONUMENT
CODE	LOCATION FROM	LOCATION TO	OFFSET	606 LIN FT	606 EACH	606 EACH	604 EACH
GR-1	50+44	BRIDGE	LT C/L JACKSON	25		1	
GR-2	BRIDGE	53+10	LT C/L JACKSON	37.5	1	1	
RM-9	983+00		47 LT B/L NO. 1				1
RM-10	983+00		47 RT B/L NO. 1				1
TOTAL				62.5	1	2	2

ESTIMATED QUANTITIES SHEET NO. 65				MANHOLE NO. 1	CATCH BASIN NO 2-3	CATCH BASIN NO. 3	INLET NO 1-3B	MANHOLE ADJ TO GRADE.
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH	604 EACH	604 EACH
AMH-1	10+50		LT C/L SECOND					1
A-31	10+86		18 LT C/L SECOND			1		
A-32	10+42		18 RT C/L SECOND			1		
A-34	983+00		B/L NO. 1				1	
A-36	53+74		22 LT C/L JACKSON	1				
A-40	54+48		15 LT C/L JACKSON		1			
TOTAL				1	1	2	1	1

ESTIMATED QUANTITIES SHEET NO. 65				12" CONDUIT TYPE B	12" CONDUIT TYPE C	15" CONDUIT TYPE B	Ditch Erosion Protection	PAVED GUTTER TYPE 1-2
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	603 LIN FT	603 LIN FT	670 SQ YD	601 LIN FT
P-31	A-31	A-32		57				
P-32	A-32	A-36			32			
P-34	A-34	A-35				285		
P-36	A-36	A-40			74			
EC-6	GUTTER	MATCHLINE	LT B/L NO 1				375	
EC-7	982+00	980+50	RT B/L NO 1				131	
G-1	980+50	MATCHLINE	RT B/L NO 1					30
G-2	MATCHLINE	980+45	LT B/L NO 1					30
TOTAL				57	106	285	506	60

ESTIMATED QUANTITIES SHEET NO. 65				6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	4" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	6" GATE VALVE & VALVE BOX	FIRE HYDRANT	VALVE BOX ADJUSTED TO GRADE
CODE	LOCATION FROM	LOCATION TO	OFFSET	814 LIN FT	814 LIN FT	814 EACH	814 EACH	814 EACH
WL-1	53+65	10+61	JACKSON-SECOND	61		1		
WL-2	10+61	10+88	SECOND ST	2	38			
WL-3	10+48	10+58	RT C/L SECOND	12		1	1	
WL-4	PEACH ALLEY AT SECOND ST							1
TOTAL				75	38	2	1	1

FOR WL-5 THROUGH WL-12 SEE SHEET NO. 71

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES SHEET NO. 65				6" CONDUIT TYPE F *	6" UNCLASSIFIED UNDERDRAINS	6" DEEP UNDERDRAINS	PIPE REMOVED 24" UNDER	CATCH BASIN REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	605 LIN FT	605 LIN FT	202 LIN FT	202 EACH
U-31	MATCHLINE	985+00	LT B/L NO. 1			482		
U-32	A-35	A-34		10		270		
U-34	A-34	985+00	RT B/L NO. 1	10		198		
U-35	A-31	14+89	LT C/L SECOND	10	389			
U-36	A-32	14+89	RT C/L SECOND	10	426			
R-13	53+10	53+85	LT C/L JACKSON				75	
R-15	53+10		LT C/L JACKSON					1
R-16	10+30		LT C/L SECOND					1
R-17	10+30		RT C/L SECOND					1
TOTAL				40	815	950	75	3

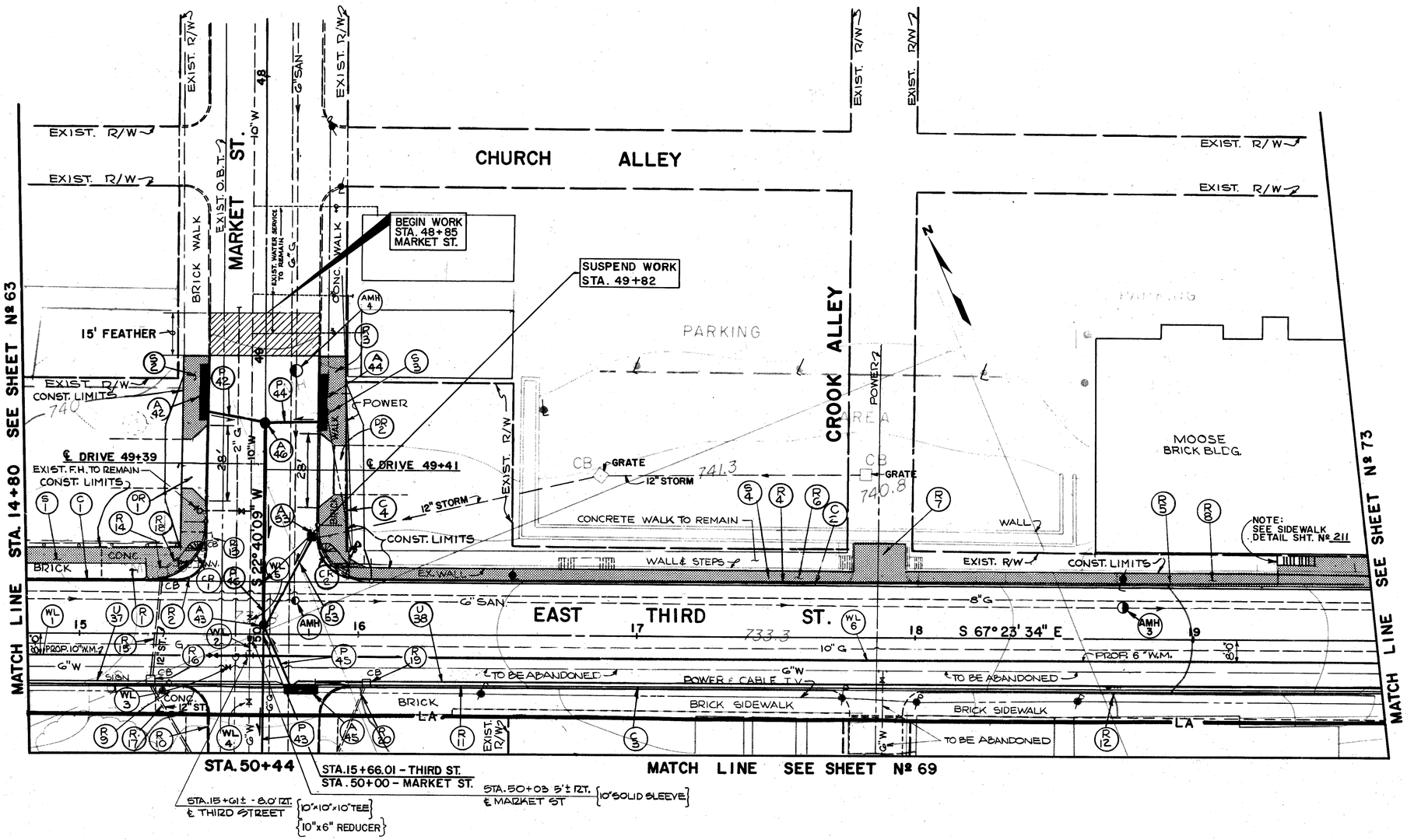
QUANTITIES

CALC. BY _____ DATE _____
CHK'D BY _____ DATE _____

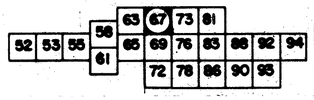
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

67 / 382

COL - 30 - 35.29



CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4-16 B
TYPICAL SECTIONS	17-23
PROFILE SHEETS	96-106
QUANTITIES	68
SUPERELEVATION TABLES	107-109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202-209
STORM SEWER PROFILES	216-223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231



SCALE IN FEET
20 10 0 20 40

LT. ℄ 30-39
STA. 985+00 TO STA. 990+00

AA B/P

ESTIMATED QUANTITIES SHEET NO. 67				CATCH BASIN REMOVED	PIPE REMOVED 24" AND UNDER	12" CONDUIT TYPE B	15" CONDUIT TYPE B
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 LIN FT	603 LIN FT	603 LIN FT
R-13	49+65		20 RT C/L MARKET	1			
R-14	15+28		20 LT C/L THIRD	1			
R-15	R-14	R-16			35		
R-16	15+26		16 RT C/L THIRD	1			
R-17	R-16	MATCHLINE			30		
R-18	R-13	R-14			18		
R-19	16+03		18 RT C/L THIRD	1			
R-20	R-19	MATCHLINE			28		
P-42	A-42	A-46				21	
P-43	A-43	50+44	C/L MARKET				46
P-44	A-44	A-46					19
P-45	A-45	A-43				23	
P-46	A-46	A-43					73
P-53	A-53	A-43				36	
TOTAL				4	111	80	138

ESTIMATED QUANTITIES SHEET NO. 67				WALK REMOVED	CURB REMOVED	CONC SLAB REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 SQ FT	202 LIN FT	202 SQ FT
R-1	15+07	15+46	LT C/L THIRD ST	540		
R-2	14+80	49+00	THIRD TO MARKET		142	
R-3	49+00	49+14	LT C/L MARKET	125		
R-4	49+00	17+77	MARKET TO THIRD		270	
R-5	17+97	19+63	LT C/L THIRD ST		181	
R-6	15+97	17+77	LT C/L THIRD ST	630		
R-7	17+77	17+97	LT C/L THIRD ST			234
R-8	17+97	19+63	LT C/L THIRD ST	481		
R-9	15+28	50+44	THIRD TO MARKET	310		
R-10	14+80	50+44	THIRD TO MARKET		86	
R-11	15+86	17+76	RT C/L THIRD ST		227	
R-12	17+95	19+68	RT C/L THIRD ST		190	
TOTAL				2086	1096	234

ESTIMATED QUANTITIES SHEET NO. 67				8" PLAIN CONCRETE PAVEMENT	4" CONCRETE WALK	CURB, TYPE 6	CURB RAMP TYPE I
CODE	LOCATION FROM	LOCATION TO	OFFSET	452 SQ YD	608 SQ FT	609 LIN FT	608 EACH
DR-1	49+39		RT C/L MARKET	22			
DR-2	49+41		LT C/L MARKET	22			
S-1	14+80	49+48	THIRD TO MARKET		580		
S-2	49+00	49+30	RT C/L MARKET		258		
S-3	49+00	49+32	LT C/L MARKET		270		
S-4	49+50	19+64	MARKET TO THIRD		2243		
C-1	14+80	49+00	THIRD TO MARKET			139	
C-2	49+00	19+63	MARKET TO THIRD			451	
C-3	14+80	19+63	RT C/L THIRD ST			485	
C-4	49+50	49+71	RT C/L MARKET			21	
CR-1	49+75		RT C/L MARKET				1
CR-2	49+75		LT C/L MARKET				1
TOTAL				44	3351	1096	2

ESTIMATED QUANTITIES SHEET NO. 67				MANHOLE NO 1	CATCH BASIN NO 6	INLET NO 2A-12	INLET NO 2A-20
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH	604 EACH
A-42	49+20		20 RT C/L MARKET				1
A-43	49+97		C/L MARKET	1			
A-44	49+24		19 LT C/L MARKET				1
A-45	15+76		18 RT C/L THIRD			1	
A-46	49+24		C/L MARKET	1			
A-53	49+61		17 LT C/L MARKET		1		
TOTAL				2	1	1	2

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES SHEET NO. 67				6" CONDUIT * TYPE F	6" UNCLASSIFIED UNDERDRAINS *
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	605 LIN FT
U-37	A-45	14+80	C/L THIRD	10	86
U-38	A-45	19+65	C/L THIRD	10	372
TOTAL				20	458

CALC. BY E.H.C. DATE 2-14-84
CHK'D BY L.C.K. DATE 12-10-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL - 30 - 35.29

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ESTIMATED QUANTITIES SHEET NO. 67				10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	10" GATE VALVE & VALVE BOX		VALVE BOX ADJUSTED TO GRADE	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS
CODE	LOCATION FROM	LOCATION TO	OFFSET	814 LIN FT	814 EACH		814 EACH	814 EACH
WL-1	14+80	15+61	8 RT C/L THIRD	81	1			
WL-2	50+03	50+08	RT C/L MARKET	5				
WL-3	THIRD ST AT MARKET ST							
WL-4	THIRD ST AT MARKET ST.							
WL-5	MARKET ST AT THIRD ST						1	
WL-6	15+61	19+66						405
TOTAL				86	1		1	405

ESTIMATED QUANTITIES SHEET NO. 67				MANHOLE ADJ. TO GRADE
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH
AMH-1	15+77		12' LT. C/L THIRD	1
AMH-3	18+75		11' LT. C/L THIRD	1
AMH-4	49+05		11' LT. C/L MARKET	1
TOTAL				3

QUANTITIES

CALC. BY E.C. DATE 2-10-84
CHK'D BY L.K. DATE 12-11-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

69
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COL - 30 - 35.29

MATCH LINE SEE SHEET Nº 67

MATCH LINE STA. 985+00

MATCH LINE STA. 990+00

MATCH LINE STA. 54+50 SEE SHT. Nº 72

BASELINE NO 1 CURVE NO 3 DATA
P I STA 985+04.94
DELTA = 13°25'26" LT
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.36'
CH = 1339.31'
E = 39.54'

CENTER LANE

U.S.R. 30 ℄ SURVEY ℄ Nº 1

EAST SECOND ST.

MARKET ST.

CROOK ALLEY

WASHINGTON ST.

CURVE Nº 3

50:1 TAPER

END 50:1 TAPER STA. 987+50

7'6" DITCH EROSION PROTECTION

STONE WALL 5'-6" HIGH

87°50'45" ℄ TO LOC. TAN.

STA. 985+81.07 ℄ US 30
STA. 51+78.16 ℄ MARKET ST.

CONSTRUCT 20' FROM A-48 & PLUG UNDER PHASE I

TEMPORARY PAVEMENT CLASS B PHASE I
CURB TO BE CONSTRUCTED IN PHASE II WHEN NECESSARY

EXIST. UNDERGROUND FUEL STORAGE TANK

S 67°23'34" E

EX. WATER SERVICE TO REMAIN

CONST. LIMITS ℄ EXIST. R/W

STA. 15+66.01 - SECOND ST.
STA. 53+41.98 - MARKET ST.

RESUME WORK STA. 53+59.98

END WORK STA. 54+27.5 WASHINGTON ST.

SUB STATION 698.9

HSE.

INCINERATOR 696.3

1 STY COMMERCIAL BLDG

1 STY CONC. BLK BLDG.

METAL BLDG.

RETAINING WALL NO. 3

DRIVE 14+90

DRIVE 17+89

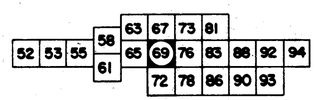
DRIVE 18+95

DRIVE 18+96

DRIVE 19+24.5

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	70 & 71
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

SCALE IN FEET
20 10 0 20 40



STA. 985+00 TO STA. 990+00

AA 2/P

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	CURB REMOVED 202 LIN FT	WALL REMOVED 202 EACH	WALK REMOVED 202 SQ FT	UNDERGROUND STORAGE TANK REMOVED 202 EACH	STEPS REMOVED 202 EACH
R-1	14+89	54+12	SECOND TO MARKET	105				
R-2	15+83	19+92	RT C/L THIRD ST	510				
R-3	51+79	53+22	RT C/L MARKET	145				
R-4	51+79	53+22	LT C/L MARKET	145				
R-5	52+50	52+75	RT C/L MARKET		1			
R-6	52+20	52+30	RT C/L MARKET		1	80		1
R-7	50+45	50+56	RT C/L MARKET			88		
R-8	50+72	50+93	RT C/L MARKET		1			1
R-9	986+15	987+06	LT B/L NO 1		1			
R-10	987+95	988+00	LT B/L NO 1		1			
R-11	14+90	15+45	LT C/L SECOND	55				
R-12	50+44	51+65	RT C/L MARKET	121				
R-14	50+44	51+65	LT C/L MARKET	121				
R-15	15+83	17+83	LT C/L SECOND	200				
R-16	989+76	989+95	RT B/L NO 1		1			
R-18	16+16	16+35	LT C/L SECOND			207		
R-19	18+08	18+88	RT C/L SECOND			960		
R-20	16+95		LT C/L SECOND				1	
R-21	18+60	19+79	LT C/L SECOND			1428		
R-22	51+76	53+14	RT C/L WASHINGTON			1380		
R-23	17+94	19+86	LT C/L SECOND	192				
R-25	51+26	53+22	RT C/L WASHINGTON	146				
R-26	985+00	985+10	LT B/L NO 1		1			
TOTAL				1740	7	4143	1	2

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL, TYPE 5 606 LIN FT	ANCHOR ASSEMBLY, TYPE A 606 EACH	REFERENCE MONUMENT 604 EACH
GR-1	987+23	990+00	RT B/L NO 1	252	1	
RM-11	988+00		53 LT B/L NO. 1			1
RM-12	988+00		47 RT B/L NO. 1			1
TOTAL				252	1	2

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL REMOVED 202 LIN FT	8" PLAIN CONCRETE PAVEMENT 452 SQ YD	4" CONCRETE WALK 608 SQ FT	CURB RAMP TYPE 2 608 EACH	CURB, TYPE 6 609 LIN FT
R-13	988+13	989+15	RT B/L NO 1	102				
R-17	989+78	989+94	RT B/L NO 1	15				
DR-1	18+96		LT C/L SECOND		24.1			
DR-2	19+24.5		RT C/L SECOND		29.4			
DR-3	17+89		RT C/L SECOND		29.4			
DR-4	18+95		RT C/L SECOND		26.4			
S-1	15+00	53+85	SECOND TO WASH.			442		
S-2	53+73	17+79	MARKET TO SECOND			1210		
S-3	17+99	18+86.5	RT C/L SECOND			540		
S-4	19+03.5	19+14.5	RT C/L SECOND			132		
S-5	19+34.5	53+85	SECOND TO WASH.			500		
S-6	53+73	54+50	LT C/L MARKET			597		
S-7	17+99	18+89	LT C/L SECOND			982		
S-8	19+05	19+79	LT C/L SECOND			857		
CR-1	53+68		RT C/L MARKET				1	
CR-2	53+68		LT C/L MARKET				1	
CR-3	53+68		RT C/L WASH.				1	
C-1	14+89	54+12	RT C/L MARKET					101
C-2	54+12	54+12	MARKET TO WASH.					490
C-3	14+89	19+92	LT C/L SECOND					503
TOTAL				117	109.3	5260	3	1094

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	12" CONDUIT TYPE B 603 LIN FT	15" CONDUIT TYPE B 603 LIN FT	27" CONDUIT TYPE C 603 LIN FT	30" CONDUIT TYPE B 603 LIN FT	30" CONDUIT TYPE C 603 LIN FT
P-43	A-60	50+44	C/L MARKET		71			
P-47	A-47	A-48					159	
P-48	A-48	54+50	C/L MARKET				109	
P-49	A-49	A-54		28				
P-50	A-50	A-54		18				
P-54	A-54	A-48		68				
P-55	A-55	A-47			18			
P-58	A-59	990+00	B/L NO 1					182
P-59	A-59	A-60				228		
P-60	A-60	A-47					68	
P-75	A-75	A-76		4				
P-76	A-76	A-78		198				
P-77	A-77	A-78		4				
P-78	A-78	20+04	C/L SECOND		34			
P-79	A-79	A-78		32				
TOTAL				352	123	228	336	182

CALC. BY E.H.C. DATE 2-14-84
CHK'D BY L.C.K. DATE 12-10-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL - 30 - 35.29

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ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	PIPE REMOVED 24" AND UNDER 202 LIN FT	CATCH BASIN REMOVED 202 EACH	MANHOLE ADJ. TO GRADE 604 EACH	INLET NO 2A-10 604 EACH	MANHOLE ABANDONED 202 EACH
R-27	MATCHLINE	OUTLET		14				
R-28	MATCHLINE	OUTLET		18				
R-29	53+04		20 RT C/L WASH.		1			
R-30	19+78		17 LT C/L SECOND		1			
R-31	R-29	R-33		50				
R-32	R-30	R-33		35				
R-33	R-31	54+13	C/L WASHINGTON	58				
R-34	MATCHLINE	R-33		15				
R-35	988+33		8 RT B/L NO 1					1
A-75	17+70		18 LT C/L SECOND				1	
AMH-1	19+61		9 LT C/L SECOND			1		
AMH-2	15+38		8 LT C/L SECOND			1		
AMH-1	16+18		9 LT C/L SECOND			1		
TOTAL				190	2	3	1	1

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	MANHOLE NO 1 604 EACH	CATCH BASIN NO 5 604 EACH	INLET NO 1-3B 604 EACH	INLET NO 2A-8 604 EACH	INLET NO 2A-6 604 EACH
A-47	985+81		6 RT B/L NO 1	1				
A-48	15+87		C/L SECOND	1				
A-49	15+00		18 LT C/L SECOND				1	
A-50	15+21		18 RT C/L SECOND					1
A-54	15+21		C/L SECOND	1				
A-55	986+00		B/L NO 1			1		
A-59	988+15		65 LT B/L NO 1		1			
A-60	985+83		62 LT B/L NO 1		1			
A-76	17+70		14 LT C/L SECOND	1				
A-77	19+68		18 LT C/L SECOND				1	
A-78	19+68		14 LT C/L SECOND	1				
A-79	19+68		18 RT C/L SECOND				1	
TOTAL				5	2	1	3	1

QUANTITIES

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	6" CONDUIT TYPE F * 603 LIN FT	6" SHALLOW PIPE UNDERDRAINS 605 LIN FT	6" DEEP PIPE UNDERDRAINS 605 LIN FT	6" UNCLASSIFIED PIPE UNDERDRAINS 605 LIN FT	DITCH EROSION PROTECTION 670 SQ YD
U-39	985+00	985+93	LT B/L NO 1			90		
U-40	A-60	990+00	LT B/L NO 1	20		350	50	
U-41	985+00	985+76	RT B/L NO 1			76		
U-42	A-47	990+00	RT B/L NO 1	10	200	109	100	
U-45	A-49	14+89	LT C/L SECOND	10				
U-46	A-75	15+03	LT C/L SECOND	10			260	
U-47	A-77	17+75	LT C/L SECOND	10			185	
U-48	19+73	20+02	LT C/L SECOND				30	
U-49	A-50	14+89	RT C/L SECOND	10			23	
U-50	A-79	16+10	RT C/L SECOND	10			349	
EC-1	A-60	A-59						179
EC-2	A-59	990+00	LT B/L NO 1					146
TOTAL				80	200	625	997	325

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES
SHEET NO. 65

CODE	LOCATION FROM	LOCATION TO	OFFSET	SERVICE BOX ADJUSTED TO GRADE 814 EACH
WL-5	11 + 13	RT.	W.SECOND ST.	1
WL-6	11 + 48			1
WL-7	11 + 58			1
WL-8	12 + 05			1
WL-9	12+ 67			1
WL-10	13+ 24			1
WL-11	13+ 67			1
WL-12	14+ 05			1
TOTAL				8

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	PLUG EXISTING WATERMAIN 814 EACH		FIRE HYDRANT REMOVED AND RESET 814 EACH	4" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT	VALVE BOX ADJUSTED TO GRADE 814 EACH
WL-1	SECOND ST AT MARKET ST			1				
WL-2	SECOND ST AT CROOK ALLEY			1				
WL-3	SECOND ST AT MARKET ST							1
WL-4	MARKET ST AT SECOND ST					1	34	
WL-5	MARKET ST AT SECOND ST							1
WL-6	MARKET ST AT SECOND ST							
WL-7	CROOK ALLEY AT SECOND ST							1
WL-8	WASHINGTON AT SECOND ST							1
WL-9	WASHINGTON AT SECOND ST							1
WL-10	MARKET ST AT SECOND ST							1
TOTAL				2		1	34	6

ESTIMATED QUANTITIES
SHEET NO. 69

CODE	LOCATION FROM	LOCATION TO	OFFSET	SERVICE BOX ADJUSTED TO GRADE 814 EACH
WL-11	15+50	RT.	E.SECOND ST.	1
WL-12	15+78			1
WL-13	17+42			1
WL-14	18+27			1
WL-15	18+51			1
WL-16	19+57			1
TOTAL				6

CALC. BY E.H.C. DATE 2-15-84
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	5	OHIO	U-457(14)	

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QUANTITIES

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FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL-30-35.29

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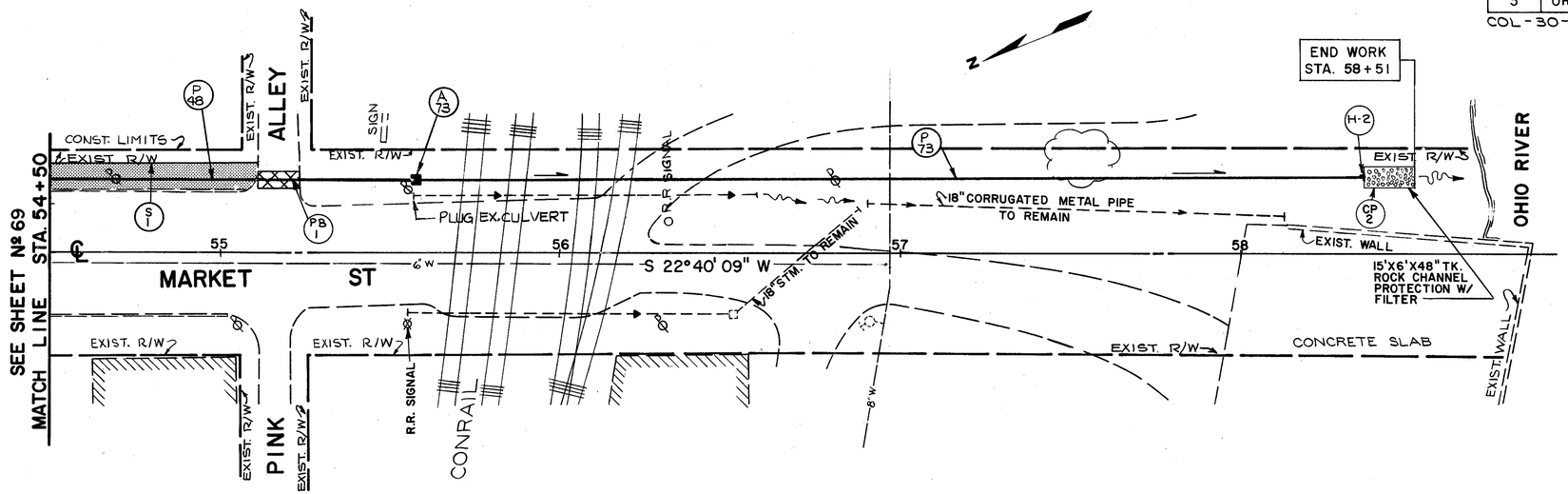
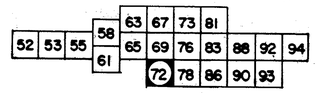


ESTIMATED QUANTITIES SHEET Nº. 72				CATCH BASIN Nº 2-3 W/ WINDOWS	30" CONDUIT TYPE B	30" CONDUIT TYPE B 706.02 3000 LOAD AS PER PLAN UNDER RAILROAD	CONCRETE MASONRY	9" CONCRETE BASE	ROCK CHANNEL PROTECTION TYPE A W/FILTER
CODE	LOCATION		OFFSET	604	603	603	602	305	601
	FROM	TO		EACH	LIN FT.	LIN FT.	CU. YD.	SQ. YD.	CU. YD.
A-73	55+57		21' LT. ℄ MARKET ST.	1					
P-48	MATCHLINE	A-73			108				
P-73	A-73	H-2				280			
H-2	58+36		23' LT. ℄ MARKET ST.				1.20		
PB-1	55+11	55+23	LT. ℄ MARKET ST.					6.67	
CP-2	58+36	58+51	23' LT. ℄ MARKET ST.						13.3
TOTAL				1	108	280	1.20	6.67	13.3

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2&3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4-16B
TYPICAL SECTIONS	17-23
PROFILE SHEETS	96-106
QUANTITIES	
SUPERELEVATION TABLES	107-109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202-209
STORM SEWER PROFILES	216-223
SANITARY SEWER PROFILES	224&225
WATERLINE PROFILES	230&231



SCALE IN FEET
20 10 0 20 40

MARKET STREET STA. 54+50 TO OHIO RIVER

CALC. BY E.C. DATE 2-12-84
CHK'D BY L.K. DATE 12-11-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

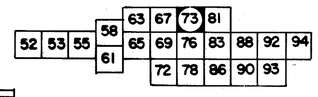
BASELINE RAMP O
CURVE NO 1 DATA
P I STA 994+16.57
DELTA = 9°05'19" LT
Dc = 2°15'00"
R = 2546.48'
T = 2029.40'
L = 403.94'
CH = 403.52'
F = 8.03'

BEGIN WORK STA. 29+41.58 FOURTH ST.
30' FEATHER
12' FEATHER
STA. 30+09.54 ℄ FOURTH ST.
STA. 46+58.96 C WASHINGTON ST.
EXIST. R/W
BEGIN WORK STA. 46+36.96 WASHINGTON ST.
WALLS
AMH
10" SAN.
6" G
10" W
S 67°23' 34" E
EAST FOURTH ST.
EXIST. R/W
MEET EXIST. CURB & WALK STA. 29+41.58
BEGIN RESURFACING STA. 29+71.58
5 STY BRICK BLDG.
STEPS
CONST. LIMITS
EXIST. CONC. WALK
POWER
PAVED PARKING LOT
DRIVE STA. 30+58
MEET EXISTING CURB & WALK STA. 30+73
CONST. LIMITS
CHAINLINK FENCE
SAW CUT JOINT MEET EXIST. PAVEMENT
POWER & CABLE T.V.
MEET EXIST. CURB & WALK STA. 47+86
COAL CHUTE
MEET. EXIST. CURB & WALK STA. 48+12
ALLEY
MATCH LINE SEE SHEET Nº 81
755.5
754.8
N
CHURCH ALLEY
EXIST. R/W
6" SAN.
SEE SHEET Nº 67
UNPAVED PARKING AREA
WASHINGTON ST.
S 22°40' 09" W
EX. WATER SERVICE TO REMAIN
2 STY. FR
WALL
4" ROOF DRAIN
SAW CUT PAVEMENT MEET EXIST. PAVEMENT
BRICK BLDG.
CONC. WALK
6" SAN.
2½ STY. FR.
CONC.
END SIDEWALK STA. 49+20
1 STY FR.
6"-45° BEND STA. 21+02-47' LT ℄ E. THIRD ST.
STONE WALL
BRICK DRIVE
EXIST R/W CONC.
PROP. 6" W.M.
EAST THIRD ST.
RAMP "O" CURVE Nº 1
S 67°23' 34" E TO BE ABANDONED
SEE NOTE 3
SEE NOTE 4
OVERHEAD POWER & CABLE T.V.
BEGIN 30:1 TAPER STA. 992+14.17
1 STY. GARAGE
3 STY. BRICK
1 STY. BLK. & FR. GARAGE
CHERRY
BRICK
EXIST R/W
BEGIN "O" RAMP P.C. STA. 992+14.17
10' LT. ℄ THIRD ST. STA. 21+53.22
PROP. 6" W.M.
SEWER LATERAL
STONE STEPS
ROCK CHANNEL PROTECTION 20'x13'x12" TK TYPE 'D' WITH FILTER
CONST LIMITS
STA. 22+42 - 47' LT. {11¼° BEND} ℄ E. THIRD ST.
MATCH LINE SEE SHEET Nº 76
STA. 20+09.54 - THIRD ST
STA. 50+00 - WASHINGTON ST.
PROP. 6" W.M.
SEE NOTE 1
SEE NOTE 2
TO BE ABANDONED
POWER
SUSPEND WORK STA. 50+18

WATERLINE NOTES:

1. STA. 50+08.0 - 5' ± RT. ℄ WASHINGTON ST. {6"×4" REDUCER}
2. STA. 50+08.0 - 5± RT. ℄ WASHINGTON ST. {6"×6"×6" TEE}
3. STA. 20+47 - 8'-0" RT. ℄ E. THIRD ST. {6"-45° BEND}
4. STA. 20+30.0 - 20.5' RT. ℄ E. THIRD ST. {FIRE HYDRANT, 6" VALVE, 6"×6"×6" TEE}

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	74 & 75
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231



SCALE IN FEET
20 10 0 20 40

LT. ℄ 30-39
STA. 990+00 TO STA. 995+00

AA B/P

ESTIMATED QUANTITIES SHEET NO. 73				WALK REMOVED	CURB REMOVED	WALL REMOVED	STEPS REMOVED	GUARDRAIL TYPE 4
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 SQ FT	202 LIN FT	202 EACH	202 EACH	606 LIN FT.
R-1	29+41.58	47+86	4TH ST TO WASH.	1680				
R-2	48+38	49+69	RT C/L WASH.	1507				
R-3	30+73	48+18	4TH ST TO WASH.	2036				
R-4	48+38	49+80	LT C/L WASH.	1633				
R-5	29+85		LT C/L 4TH	30	6			
R-6	30+35		LT C/L 4TH	30	6			
R-7	29+41.58	47+86	4TH ST TO WASH.		154			
R-8	48+38	19+63	WASH. TO 3RD ST		168			
R-9	30+73	48+18	4TH ST TO WASH.		185			
R-10	48+38	22+25	WASH. TO 3RD ST		343			
R-15	48+13	48+18	RT C/L WASH.	58				
R-16	20+40	22+20	LT C/L 3RD ST	2100				
R-17	21+17	21+36	LT C/L 3RD ST				2	
R-18	22+16	22+39	LT C/L 3RD ST				2	
R-19	21+20	22+48	LT C/L 3RD ST			1		
R-20	21+36	22+16	LT C/L 3RD ST			1		
R-21	48+13	48+18	RT C/L WASH.		17			
GR-1	992+83	993+02	LT B/L RAMP O					25
TOTAL				9074	879	2	4	25

ESTIMATED QUANTITIES SHEET NO. 73				12" CONDUIT TYPE B	15" CONDUIT TYPE B	21" CONDUIT TYPE B	24" CONDUIT TYPE B	ROCK CHANNEL PROTECTION TYPE D WITH FILTER
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	603 LIN FT	603 LIN FT	603 LIN FT	601 CU YD
P-57	A-57	A-68			38			
P-62	A-32	A-63		28				
P-63	A-63	A-66				174		
P-64	A-64	A-63			13			
P-65	A-65	A-57		16				
P-66	A-66	A-68					98	
P-67	A-67	A-66		13				
P-68	A-68	50+33	C/L WASH.				36	
P-69	A-69	A-68			103			
P-134	A-63	47+22	C/L WASH.			4		
RCP-1	992+82	993+03	LT B/L RAMP O					9.63
TOTAL				57	154	178	134	9.63

ESTIMATED QUANTITIES SHEET NO. 73				6" PLAIN CONCRETE PAVEMENT	4" CONCRETE WALK	CURB RAMP TYPE 1	CURB RAMP TYPE 2	CURB, TYPE 6	CURB RAMP TYPE I
CODE	LOCATION FROM	LOCATION TO	OFFSET	452 SQ YD	608 SQ FT	608 EACH	608 EACH	609 LIN FT	608 S.F.
DR-1	30+58		RT C/L 4TH ST	29.5					
S-1	29+41.58	47+86	4TH ST TO WASH.		1702				
S-2	48+38	19+63	WASH. TO 3RD ST		1668				
S-3	30+48	48+18	4TH ST TO WASH.		1387				
S-4	48+38	49+20	LT C/L WASH. ST		810				
S-5	30+68	30+7.	RT C/L 4TH ST		45				
S-6	48+13	48+18	RT C/L WASH. ST		60				
CR-1	29+84		RT C/L 4TH ST			1			
CR-2	30+34		RT C/L 4TH ST			1			
CR-3	29+84		LT C/L 4TH ST						30
CR-4	30+34		LT C/L 4TH ST						30
CR-5	48+17		RT C/L WASH. ST				1		
CR-6	48+17		LT C/L WASH. ST				1		
CR-7	48+39		LT C/L WASH. ST				1		
CR-8	48+39		RT C/L WASH. ST				1		
C-1	29+41.58	47+86	4TH ST TO WASH.					154	
C-2	48+38	19+63	WASH. TO 3RD ST					156	
C-3	30+73	48+18	4TH ST TO WASH.					190	
C-4	48+38	21+17.65	WASH. TO 3RD ST					218	
C-5	ISLAND							178	
C-6	48+13	48+18	RT C/L WASH. ST					17	
TOTAL				29.5	5672	2	4	913	60

ESTIMATED QUANTITIES SHEET NO. 73				MANHOLE NO 1	INLET NO 2A-20	INLET NO 2A-14	INLET NO 2A-18	CATCH BASIN NO 6
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH	604 EACH	604 EACH
A-57	49+71		21 RT C/L WASH.					1
A-62	47+14		18 RT C/L WASH.		1			
A-63	47+26		5 LT C/L WASH.	1				
A-64	47+26		18 LT C/L WASH.		1			
A-65	49+55.5		18 RT C/L WASH.			1		
A-66	49+45		5 LT C/L WASH.	1				
A-67	48+96		18 LT C/L WASH.				1	
A-68	20+14		3 LT C/L THIRD	1				
A-69	21+15		18 RT C/L THIRD		1			
TOTAL				3	3	1	1	1

CALC. BY E.H.C. DATE 2-15-84
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ESTIMATED QUANTITIES SHEET NO. 73				MANHOLE RECONSTR. TO GRADE	MANHOLE NO 3 W/706.11 JTS	6" CONDUIT TYPE B W/706.08 JTS	6" CONDUIT TYPE C W/706.08 JTS
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	603 LIN FT	603 LIN FT
RC-300	20+07.25		10 LT C/L THIRD	1			
A-310	21+23		42 LT C/L THIRD		1		
P-300	RC-300	A-311				126	
P-310	A-311	MATCHLINE					114
P-311	A-311	MATCHLINE					50
A-311	993+02		32' LT. B/L RAMP O		1		
TOTAL				1	2	126	164

*707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES SHEET NO. 73				CATCH BASIN REMOVED	PIPE REMOVED 24" AND UNDER	6" CONDUIT * TYPE F	6" UNCLASSIFIED UNDERDRAINS	DITCH EROSION PROTECTION
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 LIN FT	603 LIN FT	605 LIN FT	670 SQ YD
R-11	R-12	MATCHLINE			65			
R-12	49+67		20 RT C/L WASH.	1				
R-13	49+68		20 LT C/L WASH.	1				
R-14	R-13	MATCHLINE			63			
U-51	A-62	46+97	RT C/L WASH.			10	8	
U-52	A-64	47+03	LT C/L WASH.			10	13	
U-53	A-65	47+20	RT C/L WASH.			10	221	
U-55	A-67	47+31	LT C/L WASH.			10	155	
U-56	A/69	19+65	RT C/L THIRD			10	132	
U-57	MATCHLINE OUTLET					10	22	
EC-1	21+55	MATCHLINE						79
TOTAL				2	128	60	551	79

QUANTITIES

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 73

CODE	LOCATION FROM	LOCATION TO	OFFSET		6" WATER MAIN DUCTILE IRON PIPE ANST CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT		6' GATE VALVE & VALVE BOX 814 EACH	FIRE HYDRANT 814 EACH
WL-1	19+66	22+97	THIRD ST		355		1	
WL-2	50+03	50+08	5 RT C/L WASH.		5			
WL-3	20+30		RT C/L THIRD		12		1	1
TOTAL					372		2	1

ESTIMATED QUANTITIES
SHEET NO. 73

CODE	LOCATION FROM	LOCATION TO	OFFSET	PLUG EXISTING WATERMAIN 814 EACH	FIRE HYDRANT REMOVED & DISPOSED OF 814 EACH	VALVE BOX ADJUSTED TO GRADE 814 EACH	SERVICE BOX ADJUSTED TO GRADE 814 EACH	3/4" COPPER SERVICE BRANCH 814 LIN FT
WL-4	THIRD ST AT WASHINGTON ST			1				
WL-5	THIRD ST AT WASHINGTON ST				1			
WL-6	WASHINGTON AT FOURTH ST					1		
WL-7	WASHINGTON AT FOURTH ST					1		
WL-8	WASHINGTON AT FOURTH ST					1		
WL-9	WASHINGTON AT FOURTH ST					1		
WL-10	WASHINGTON AT FOURTH ST					1		
WL-11	49+40		22' RT. & WASHINGTON				1	
WL-12	48+52		25' LT. & WASHINGTON				1	
WL-13	48+94		25' LT. & WASHINGTON				1	
WL-14	21+80		43' LT. & 3 RD. ST.					5
TOTAL				1	1	5	3	5

CALC. BY E.H.C. DATE 2-15-84
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	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

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QUANTITIES

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MATCH LINE SEE SHEET Nº 73

MATCH LINE STA. 990+00

MATCH LINE STA. 995+00

MATCH LINE SEE SHEET Nº 78

EAST THIRD ST.

CHERRY ALLEY

CENTER LANE

WASHINGTON ST.

UNION ST.

U.S.R. 30 ℄ SURVEY ℄ Nº 1

RAMP "O"

RAMP "M"

STA. 990+26.01 ℄ US 30
STA. 51+44.68 ℄ WASHINGTON ST.

STA. 24+43.45 - THIRD ST.
STA. 50+00 - UNION ST.

STA. 994+65.88 ℄ U.S. 30
STA. 50+74.38 ℄ UNION ST.

83°23'47" A TO LOC. TAN.

77°04'10" A TO LOC. TAN.

CURVE Nº 3

CURVE Nº 4

CURVE Nº 5

CURVE Nº 2

CURVE Nº 1

C.S. STA. 991+73.04

C.S. STA. 993+73.04

S 67°23'34" E

S 22°40'09" W

7'-6" JUTE MATTING

7'-6" DITCH EROSION PROTECTION

30:1 TAPER

END 30:1 TAPER
STA. 995+14.17

TEMPORARY PAVEMENT PHASE I
SEE SHEET 23

REINFORCED SODDED FLUME

PROP. 6" W.M.

PROP. 6" SAN. SEWER

CONST. LIMITS

EXIST. R/W

TO BE ABANDONED

RETAINING WALL Nº 3

POWER & CABLE T.V.

POWER, CABLE T.V. & TELE.

FLUSHTANK

BASELINE NO 1 CURVE NO 3 DATA
P I STA 985+04.94
DELTA = 13°25'26" LT
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.36'
CH = 1339.31'
E = 39.54'

BASELINE NO 1 CURVE NO 4 DATA
DELTA = 3°00'00" LT
Δ1 = 1°00'00" Δ2 = 2°00'00"
Dc = 1°00'00" Dc = 2°00'00"
R = 5729.58' R = 2864.79'
LS = 200.00' T1 = 111.13'
x = 199.92' T2 = 88.91'
Y = 4.65' P = 0.29'
LC = 199.98'

BASELINE NO 1 CURVE NO 5 DATA
P I STA 1002+00.17
DELTA = 32°12'33" LT
DC = 2°00'00"
R = 2864.79'
T = 827.12'
L = 1610.45'
CH = 1589.33'
E = 117.01'

BASELINE RAMP M
CURVE NO 1 DATA
P I STA 993+90.70
DELTA = 73°57'27" RT
R = 63.00'
T = 47.44'
L = 81.32'
CH = 75.79'
E = 15.89'

BASELINE RAMP M
CURVE NO 2 DATA
P I STA 999+68.70
DELTA = 21°30'30" LT
Dc = 2°00'00"
R = 2864.79'
T = 544.11'
L = 1075.42'
CH = 1069.21'
E = 51.21'

BASELINE RAMP O
CURVE NO 1 DATA
P I STA 994+16.57
DELTA = 9°05'19" LT
Dc = 2°15'00"
R = 2546.48'
T = 2029.40'
L = 403.94'
CH = 403.52'
F = 8.03'

CROSS-REFERENCE — SHEET NO.

52 53 55 58 61 63 67 73 81 65 69 76 83 88 92 94 72 78 86 90 93

SCALE IN FEET
20 10 0 20 40

STA. 990+00 TO STA. 995+00

CALC. BY E.H.C. DATE 2-15-84	FHWA REGION	STATE	PROJECT	
CHK'D BY L.C.K. DATE 12-11-84	5	OHIO	U-457(14)	

COL-30-35.29

ESTIMATED QUANTITIES SHEET NO. 76				WALK REMOVED	CURB REMOVED	WALL REMOVED	DRIVE REMOVED	CONC SLAB REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 SQ FT	202 LIN FT	202 EACH	202 SQ FT	202 SQ FT
R-1	50+35	51+63	RT C/L WASH ST	1300				
R-2	50+35	51+68	LT C/L WASH ST	1530				
R-3	51+75	52+83	LT C/L WASH ST	1242				
R-5	50+35	51+63	RT C/L WASH ST		135			
R-6	50+35	51+68	LT C/L WASH ST		133			
R-7	51+75	52+83	LT C/L WASH ST		108			
R-8	991+86	992+52	LT B/L NO 1		78			
R-9	50+56	51+13	LT C/L WASH ST			1		
R-10	992+72	994+70	LT B/L NO 1	1710		2		
R-12	992+75	993+97	LT B/L NO 1	1200				
R-14	50+30	50+95	RT C/L UNION	488				
R-15	50+19	51+61	LT C/L UNION	1065				
R-16	51+78	52+27	RT C/L UNION	368				
R-17	51+78	52+22	LT C/L UNION	330				
R-18	992+70	994+75	LT B/L NO 1		205			
R-20	992+75	994+63	LT B/L NO 1		200			
R-21	50+25	51+64	RT C/L UNION		145			
R-22	50+19	51+61	LT C/L UNION		155			
R-23	51+78	52+33	RT C/L UNION		60			
R-24	51+78	52+25	LT C/L UNION		52			
R-25	993+45	993+90	LT & RT B/L NO 1				1638	
R-26	993+77	993+96	LT B/L NO 1			1		160
R-27	993+40	993+70	RT B/L NO 1					700
R-28	993+34	993+60	RT B/L NO 1				360	
R-29	992+44	992+82	RT B/L NO 1					770
R-30	992+49	993+10	RT B/L NO 1					1392
R-31	992+49	993+05	RT B/L NO 1			1		
R-32	993+25	993+40	RT B/L NO 1			1		
R-33	992+45	992+75	RT B/L NO 1				420	
TOTAL				9233	1271	6	2418	3022

ESTIMATED QUANTITIES SHEET NO. 76				CURB, TYPE 6	COMBINATION CURB & GUTTER TYPE 6 AS PER PLAN	GUARDRAIL, TYPE 5	REFERENCE MONUMENT	ASPHALT CONCRETE CURB, TYPE I
CODE	LOCATION FROM	LOCATION TO	OFFSET	609 LIN FT	609 LIN FT	606 EACH	604 EACH	609 LIN. FT.
C-1	993+60	994+60	LT RAMP M		130			
C-2	993+80	994+35	RT RAMP M	50				
GR-1	990+00	995+00	RT B/L NO 1			505		
RM-13	991+73.04		59 LT B/L NO. 1				1	
RM-14	991+73.04		47 RT B/L NO. 1				1	
RM-15	993+73.04		59 LT B/L NO. 1				1	
RM-16	993+73.04		47 RT B/L NO. 1				1	
AC-1	994+50	995+00	RT B/L NO. 1					50
TOTAL				50	130	505	4	50

ESTIMATED QUANTITIES SHEET NO. 76					15" CONDUIT TYPE B		24" CONDUIT TYPE B	30" CONDUIT TYPE C
CODE	LOCATION FROM	LOCATION TO	OFFSET		603 LIN FT		603 LIN FT	603 LIN FT
P-52	A-52	A-58	B/L NO 1 C/L WASH.		64			
P-58	A-58	990+00						45
P-68	A-58	50+33					45	
P-127	MATCHLINE	A-128			36			
P-128	A-128	MATCHLINE			64			
TOTAL					164		45	45

ESTIMATED QUANTITIES SHEET NO. 76				CATCH BASIN NO 5	INLET NO 13-B	INLET NO 2A-6		DITCH EROSION PROTECTION	REINFORCED SODDING
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH		670 SQ YD	660 SQ.YD.
A-52	990+41		B/L NO 1		1				
A-58	990+45		65 LT B/L NO 1	1					
A-128	994+25		27.25 LT B/L RAMP M			1			
EC-1	A-58	995+00	LT B/L NO 1					367	
EC-2	990+90	A-58	LT B/L NO 1					29	
EC-3	MATCHLINE	A-74	LT B/L RAMP O					145	
EC-4	994+47		RT. B/L NO.						70
TOTAL				1	1	1		541	70

ESTIMATED QUANTITIES SHEET NO. 76				MANHOLE ABANDONED	MANHOLE REMOVED	6" CONDUIT TYPE C-706.08 W/706.12 J/S	10" CONDUIT TYPE C-706.08 W/706.12 J/S	CONCRETE MASONRY *	COPOUILLA VARIA - CROWN VETCH
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 EACH	603 LIN FT	603 LIN FT	602 CU YD	661 EACH
AB-1	991+13		37 RT B/L NO 1	1					
AB-2	991+77		45 RT B/L NO 1	1					
AB-3	51+71		34 LT C/L UNION	1					
R-34	51+85		3 LT C/L UNION		1				
P-311	MATCHLINE	MATCHLINE	LT B/L RAMP O			135			
P-312	MATCHLINE	MATCHLINE	C/L UNION				255		
CC-1	MATCHLINE	51+85	C/L UNION					17.2	
CV-1	994+50	995+00	RT. B/L NO. 1						1400
TOTAL				3	1	135	255	17.2	1400

* SEE SHT. 212 & 221 FOR CRADLE DESIGN

*707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES SHEET NO. 76				PIPE REMOVED 24" AND UNDER	6" CONDUIT * TYPE F	6" SHALLOW PIPE UNDERDRAINS	6" UNCLASSIFIED PIPE UNDERDRAINS
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 LIN FT	603 LIN FT	605 LIN FT	605 LIN FT
R-11	MATCHLINE	OUTLET		7			
R-19	MATCHLINE	OUTLET		7			
U-58	MATCHLINE	994+85	LT B/L RAMP O			202	
U-59	990+00	995+00	LT B/L NO 1			450	50
U-60	990+00	990+35	B/L NO 1			35	
U-61	A-52	995+00	B/L NO 1		10	457	
U-66	994+24.58	MATCHLINE	RT B/L RAMP M			44	
TOTAL				14	10	1188	50

ESTIMATED QUANTITIES SHEET NO. 76				6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	FIRE HYDRANT REMOVED & DISPOSED OF
CODE	LOCATION FROM	LOCATION TO	OFFSET	814 LIN FT	814 EACH
WL-1	22+97	24+23	LT C/L THIRD ST	128	
WL-2	THIRD ST AT UNION ST				1
TOTAL				128	1

QUANTITIES

CALC. BY C.E.W. DATE 12-7-84
CHK'D BY L.K. DATE 12-13-84

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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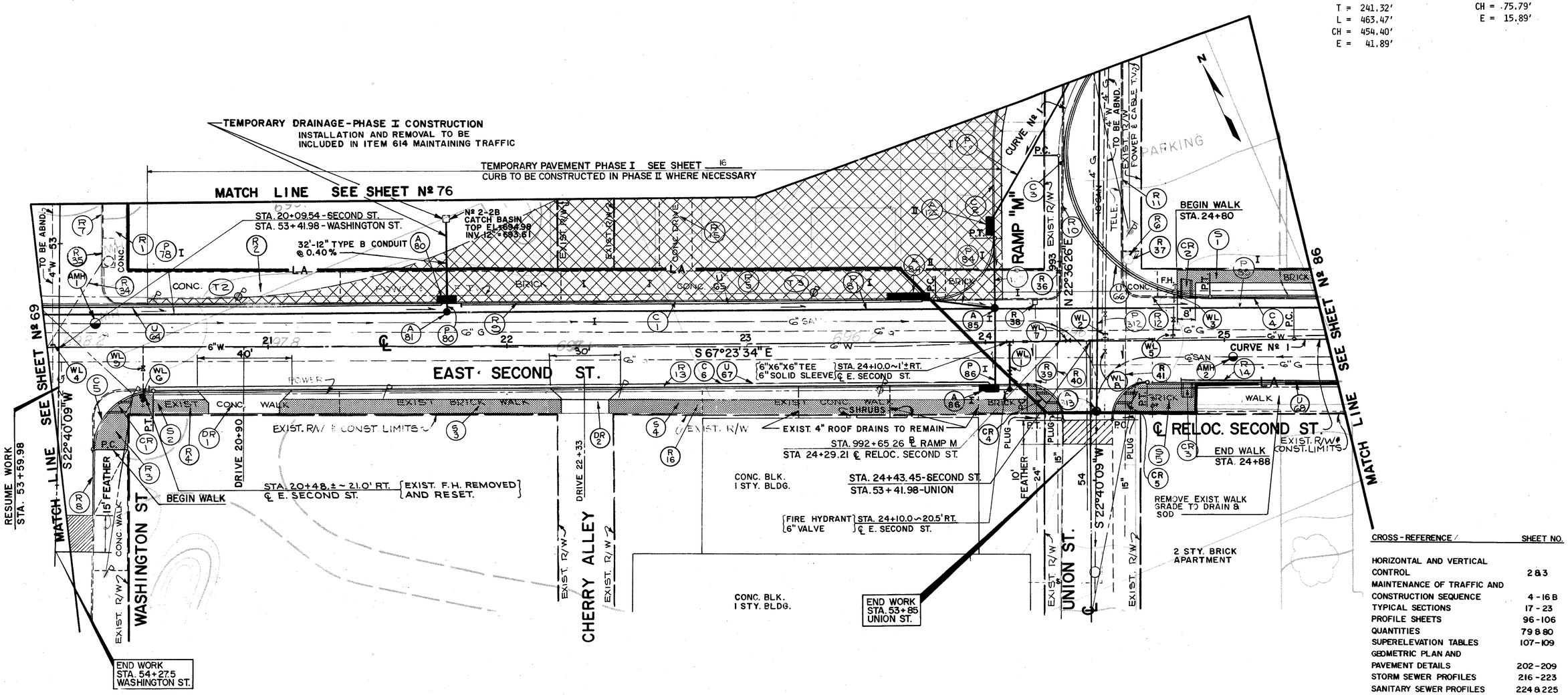
COL - 30 - 35.29

CENTERLINE RELOCATED SECOND STREET
CURVE NO 1 DATA
P I STA 27+70.50
DELTA = 39°23'42" LT
Dc = 8°30'00"
R = 647.07'
T = 241.32'
L = 463.47'
CH = 454.40'
E = 41.89'

BASELINE RAMP M
CURVE NO 1 DATA
P I STA 993+90.70
DELTA = 73°57'27" RT
R = 63.00'
T = 47.44'
L = 81.32'
CH = 75.79'
E = 15.89'



CROSS - REFERENCE /	SHEET NO.
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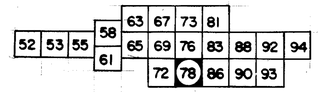

SCALE IN FEET
20 10 0 20 40

RT. ℄ 30-39
STA. 990+00 TO STA. 995+00

AA B/P

ESTIMATED QUANTITIES SHEET NO. 78				WALK REMOVED	CURB REMOVED	CONC DRIVE REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 SQ FT	202 LIN FT	202 SQ FT
R-1	52+83	53+11	LT C/L WASH	280		
R-2	20+31	21+31	LT C/L SECOND	1300		
R-3	53+71	53+86	LT C/L WASH	210		
R-4	20+27	21+30	RT C/L SECOND	960		
R-5	22+23	23+84	LT C/L SECOND	1840		
R-6	24+58	24+72	LT C/L SECOND	230		
R-7	52+83	53+23	LT C/L WASH		40	
R-8	53+66	54+14	LT C/L WASH		50	
R-9	20+33	24+32	LT C/L SECOND		400	
R-10	52+35	53+22	RT C/L UNION		87	
R-11	52+27	53+22	LT C/L UNION		95	
R-12	24+59	25+38	LT C/L SECOND		79	
R-13	20+33	24+33	RT C/L SECOND		408	
R-14	24+53	25+48	RT C/L SECOND		95	
R-15	22+63	22+77	LT C/L SECOND			420
R-16	22+82	23+97	RT C/L SECOND	1380		
TOTAL				6200	1254	420

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES SHEET NO. 78				INLET REMOVED	PIPE REMOVED 24" AND UNDER	* 6" CONDUIT TYPE F	6" UNCLASSIFIED UNDERDRAINS
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 LIN FT	603 LIN FT	605 LIN FT
R-34	R-35	MATCHLINE			42		
R-35	20+33		36 LT C/L SECOND	1			
R-36	24+32		32 LT C/L SECOND	1			
R-37	24+58		34 LT C/L SECOND	1			
R-38	24+21		17 LT C/L SECOND	1			
R-39	24+21		C/L SECOND		50		
R-40	24+30		C/L SECOND		60		
R-41	24+59		C/L SECOND		65		
U-64	MATCHLINE	A-80				10	166
U-65	21+77	A-84	C/L SECOND			10	190
U-66	MATCHLINE	MATCHLINE	RAMP M				174
U-67	20+50	A-86	C/L SECOND			10	353
U-68	24+81	MATCHLINE	C/L SECOND				66
TOTAL				4	217	30	949

ESTIMATED QUANTITIES SHEET NO. 78				12" CONDUIT TYPE B	15" CONDUIT TYPE B	21" CONDUIT TYPE B	10" CONDUIT TYPE 9-706.08 W/706.12 JTS
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	603 LIN FT	603 LIN FT	603 LIN FT
P-78	MATCHLINE	A-81			168		
P-80	A-80	A-81		4			
P-81	A-81	A-85			229		
P-84	A-84	A-85		30			
P-85	A/85	MATCHLINE				136	
P-86	A-86	A-85		32			
P-128	MATCHLINE	A-129			66		
P-129	A-129	A-85			32		
P-312	MATCHLINE	A-313					143
TOTAL				66	495	136	143

ESTIMATED QUANTITIES SHEET NO. 78				MANHOLE RECONSTRUCTED WITH DROP PIPE AS PER PLAN	MANHOLE NO 1	INLET NO 2A-8	MANHOLE ADJUSTED TO GRADE	INLET NO. 2A-18
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH	604 EACH	604 EACH
A-80	21+75		18 LT C/L SECOND			1		
A-81	21+75		14 LT C/L SECOND		1			
A-84	23+75		18 LT C/L SECOND					1
A-85	24+04		14 LT C/L SECOND		1			
A-86	24+04		18 RT C/L SECOND			1		
A-129	993+13		27.25 LT B/L RAMP M			1		
A-313	53+71.5		5 LT C/L UNION	1				
AMH-1	20+28		10 LT C/L SECOND				1	
AMH-2	25+04		8 RT C/L SECOND				1	
TOTAL				1	2	3	2	1

CALC. BY E.H.C. DATE 2-15-84
CHK'D BY L.C.K. DATE 12-11-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL - 30 - 35.29

ESTIMATED QUANTITIES SHEET NO. 78				CURB, TYPE 6	COMBINATION CURB & GUTTER TYPE 2 AS PER PLAN	4" CONCRETE WALK	CURB RAMP TYPE 2	8" PLAIN CONCRETE PAVEMENT
CODE	LOCATION FROM	LOCATION TO	OFFSET	609 LIN FT	609 LIN FT	608 SQ FT	608 EACH	452 SQ YD
C-1	20+06	24+04	LT C/L SECOND	414				
C-2	993+10	993+60	LT B/L RAMP M		54			
C-3	24+94	993+78	SECOND ST TO RAMP M	128				
C-4	24+94	25+38	LT C/L SECOND	44				
C-5	54+14	20+52	WASH TO SECOND	66				
C-6	20+52	25+48	RT C/L SECOND	386				
S-1	24+80	25+38	LT C/L SECOND			370		
S-2	53+88	20+70	WASH TO SECOND			466		
S-3	21+05	22+22	RT C/L SECOND			702		
S-4	22+42	24+32	RT C/L SECOND			1150		
S-5	24+53	24+88	RT C/L SECOND			403		
DR-1	20+90		RT C/L SECOND					41
CR-1	53+68		LT C/L WASH ST				1	
CR-2	24+85		LT C/L SECOND				1	
CR-3	24+85		RT C/L SECOND				1	
CR-4	24+25		RT C/L SECOND				1	
CR-5	24+60		RT C/L SECOND				1	
TOTAL				1038	54	3091	5	41

QUANTITIES

AA B/F

ESTIMATED QUANTITIES
SHEET NO. 78

CODE	LOCATION FROM	LOCATION TO	OFFSET	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	6" GATE VALVE & VALVE BOX	FIRE HYDRANT	FIRE HYDRANT REMOVED & DISPOSED OF	PLUG EXISTING WATERMAIN
				814	814	814	814	814
				LIN FT	EACH	EACH	EACH	EACH
WL-1	24+10		RT C/L SECOND	24	1	1		
WL-2	SECOND ST AT UNION ST							1
WL-3	SECOND ST AT UNION ST.			4			1	
WL-4	SECOND ST AT WASHINGTON ST							1
WL-5	SECOND ST AT UNION ST							1
TOTAL				28	1	1	1	3

ESTIMATED QUANTITIES
SHEET NO. 78

CODE	LOCATION FROM	LOCATION TO	OFFSET	FIRE HYDRANT REMOVED AND RE-SET	VALVE BOX ADJUSTED TO GRADE
				814	814
				EACH	EACH
WL-6	UNION ST AT WASHINGTON ST.			1	
WL-7	UNION ST AT SECOND ST				1
WL-8	UNION ST AT SECOND ST				1
WL-9	WASHINGTON AT SECOND ST				1
TOTAL				1	3

CALC. BY E.H.C. DATE 2-16-84
CHK'D BY L.C.K. DATE 12-12-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

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QUANTITIES

CALC. BY____ DATE ____
CHK'D BY____ DATE ____

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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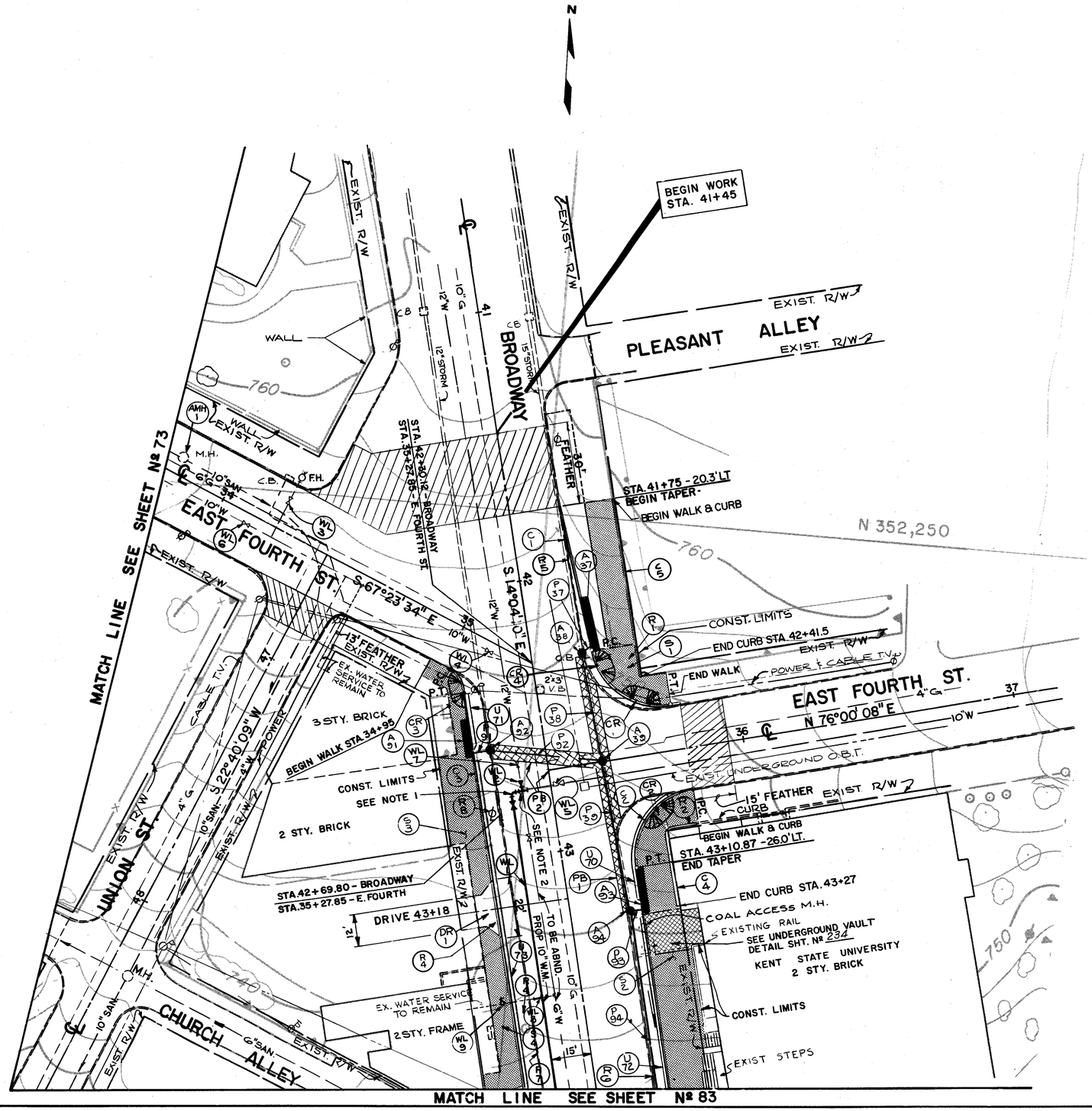
COL-30-35.29


N
BEGIN WORK STA. 41+45
EXIST. R/W
PLEASANT ALLEY
EXIST. R/W
EXIST. R/W
BROADWAY
℄
41
10"G
12"W
12"STORM
15"STORM
C.B.
WALL
760
AMH 1
WALL
EXIST. R/W
M.H.
C.B.
F.H.
6"G
10"SAN
34
10"W
EAST FOURTH ST.
S 67°23'34" E
38
10"W
WL 6
WL 3
EXIST. R/W
STA. 42+80.18 - BROADWAY
STA. 35+27.85 - E. FOURTH ST.
℄ FEATHER
30'
STA. 41+75 - 20.3' LT
BEGIN TAPER
BEGIN WALK & CURB
N 352,250
760
SEE SHEET Nº 73
MATCH LINE
℄
S 14°04'10" E
42
12"W
P 37
A 37
C 5
C 1
RW 1
A 38
P 38
CR 1
A 39
P 39
UN 3
A 94
P 94
UN 2
C 94
U 72
R 6
S 1
R 1
CONST. LIMITS
END CURB STA 42+41.5
EXIST. R/W
P.C.
C.B.
END WALK
POWER & CABLE TV
EAST FOURTH ST.
4"G
37
℄
N 76°00'08" E
10"W
36
EXIST. UNDERGROUND O.B.T.
15' FEATHER EXIST R/W
CURB
BEGIN WALK & CURB
STA. 43+10.87 - 26.0' LT.
END TAPER
P.T.
C 4
END CURB STA. 43+27
COAL ACCESS M.H.
EXISTING RAIL
SEE UNDERGROUND VAULT DETAIL SHT. Nº 234
KENT STATE UNIVERSITY
2 STY. BRICK
CONST. LIMITS
EXIST STEPS
750
13' FEATHER
EXIST. R/W
EX. WATER SERVICE TO REMAIN
3 STY. BRICK
BEGIN WALK STA. 34+95
CONST. LIMITS
SEE NOTE 1
2 STY. BRICK
OR 3
A 91
WL 7
WL 8
WL 5
P 91
P 92
UN 1
A 92
P 38
CR 3
A 39
P 39
UN 3
P 2
PB 2
WL 4
WL 10
WL 11
WL 12
WL 13
WL 14
WL 15
WL 16
WL 17
WL 18
WL 19
WL 20
WL 21
WL 22
WL 23
WL 24
WL 25
WL 26
WL 27
WL 28
WL 29
WL

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 81

CODE	LOCATION FROM	LOCATION TO	OFFSET	WALK REMOVED 202 SQ FT	CURB REMOVED 202 LIN FT	LIGHT POLE & FND. REMOVED 202 EACH	DRIVE APPROACH REMOVED 202 SQ FT
R-1	42+29	35+79	LT BROADWAY - 4TH	430			
R-2	35+79	43+93	LT 4TH - BROADWAY	2778			
R-3	34+95	43+42	RT 4TH - BROADWAY	1571			
R-4	42+18		RT C/L BROADWAY				45
R-5	41+75	35+79	LT BROADWAY - 4TH		102		
R-6	35+79	43+93	LT 4TH - BROADWAY		132		
R-7	35+03	43+85	RT 4TH - BROADWAY		167		
R-8	42+82		RT C/L BROADWAY			1	
TOTAL				4775	401	1	45

ESTIMATED QUANTITIES
SHEET NO. 81

CODE	LOCATION FROM	LOCATION TO	OFFSET	4" CONCRETE WALK 608 SQ FT	CURB RAMP TYPE 1 608 EACH	CURB, TYPE 6 609 LIN FT	8" PLAIN CONCRETE PAVEMENT 452 SQ YD
C-1	41+75	35+78.9	LT BROADWAY - 4TH			77	
C-2	35+78.9	43+93	LT 4TH - BROADWAY			103	
C-3	35+03.8	43+85	RT 4TH - BROADWAY			142	
C-4	35+79	43+25	LT 4TH - BROADWAY			45	
S-1	41+75	35+79	LT BROADWAY - 4TH	829			
S-2	35+79	43+93	LT 4TH - BROADWAY	1526			
S-3	34+95	43+12	RT 4TH - BROADWAY	751			
S-4	43+24	43+85	RT C/L BROADWAY	441			
DR-1	43+18		RT C/L BROADWAY				21.4
CR-1	35+68		LT C/L FOURTH		1		
CR-2	35+68		RT C/L FOURTH		1		
CR-3	42+36		RT C/L BROADWAY		1		
CR-4	42+36		LT C/L FOURTH		1		
C-5	41+75	42+41.5	LT C/L BROADWAY			66.5	
TOTAL				3547	4	433.5	21.4

ESTIMATED QUANTITIES
SHEET NO. 81

CODE	LOCATION FROM	LOCATION TO	OFFSET	INLET NO 2A-20 604 EACH	MANHOLE NO 1 604 EACH	INLET NO 2A-14 604 EACH	9" CONCRETE BASE 305 SQ YD	MANHOLE ADJ. TO GRADE 604 EACH
A-37	42+27		22 LT C/L BROADWAY	1				
A-38	42+30		18 LT C/L BROADWAY		1			
A-39	42+70		20 LT C/L BROADWAY		1			
A-91	42+60		26 RT C/L BROADWAY			1		
A-92	42+60		19 RT C/L BROADWAY		1			
A-93	43+27		26 LT C/L BROADWAY			1		
A-94	43+27		22 LT C/L BROADWAY		1			
PB-1	35+50		C/L FOURTH				52.78	
PB-2	42+60		C/L BROADWAY				22.22	
AMH-1	33+80		7' LT. C/L FOURTH					1
TOTAL				1	4	2	75.00	1

*707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES
SHEET NO. 81

CODE	LOCATION FROM	LOCATION TO	OFFSET	6" CONDUIT * TYPE F 603 LIN FT	12" CONDUIT TYPE B 603 LIN FT	15" CONDUIT TYPE B 603 LIN FT	18" CONDUIT TYPE B 603 LIN FT	6" SHALLOW PIPE UNDERDRAINS 605 LIN FT
P-37	A-37	A-38				4		
P-38	A-38	A-39				45		
P-39	A-39	A-94				57		
P-91	A-91	A-92			7			
P-92	A-92	A-39			41			
P-93	A-93	A-94			4			
P-94	A-94	MATCHLINE					67	
U-70	35+70	A-93	LT. C/L FOURTH	10				42
U-71	42+37	A-91	RT. C/L BROADWAY	10				22
U-72	A-93	MATCHLINE						66
U-73	A-91	MATCHLINE						122
TOTAL				20	52	106	67	252

CALC. BY E.H.C. DATE 2-16-84
CHK'D BY L.C.K. DATE 12-12-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL - 30 - 35.29

82
362

ESTIMATED QUANTITIES
SHEET NO. 81

CODE	LOCATION FROM	LOCATION TO	OFFSET	10" WATER MAIN CUC-TILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS 814 LIN FT	10" GATE VALVE & VALVE BOX 814 EACH	VALVE BOX ADJUSTED TO GRADE 814 EACH	SERVICE BOX ADJUSTED TO GRADE 814 EACH	1" SERVICE BRANCH 814 LIN FT
WL-1	42+76	43+87	RT C/L BROADWAY	115	1			
WL-2	42+72	42+76	11 RT C/L BROAD.	4				
WL-3	UNION ST AT FOURTH ST					1		
WL-4	FOURTH ST AT BROADWAY					1		
WL-5	FOURTH ST AT BROADWAY					1		
WL-6	UNION ST. AT FOURTH ST					1		
WL-7	BROADWAY AT FOURTH ST					1		
WL-8	48+52		15' RT. C/L BROADWAY				1	5
WL-9	48+52		15' RT. C/L BROADWAY					
TOTAL				119	1	5	1	5

QUANTITIES

MATCH LINE SEE SHEET Nº 81

MATCH LINE SEE SHEET Nº 86

CALC. BY E.C. DATE 2-13-84
CHK'D BY L.K. DATE 12-14-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL - 30 - 35.29

BASELINE NO 1 CURVE NO 5 DATA	BASELINE RAMP Q CURVE NO 1 DATA	BASELINE RAMP Q CURVE NO 2 DATA	BASELINE RAMP M CURVE NO 2 DATA
P I STA 1002+00.17	P I STA 994+16.57	P I STA 999+63.02	P I STA 999+68.70
DELTA = 32°12'33" LT	DELTA = 9°05'19" LT	DELTA = 20°25' LT	DELTA = 21°30'30" LT
DC = 2°00'00"	Dc = 2°15'00"	Dc = 3°00'00"	Dc = 2°00'00"
R = 2864.79'	R = 2546.48'	R = 1909.86'	R = 2864.79'
T = 827.12'	T = 2029.40'	T = 544.90'	T = 544.11'
L = 1610.45'	L = 403.94'	L = 682.45'	L = 1075.42'
CH = 1589.33'	CH = 403.52'	CH = 678.83'	CH = 1069.21'
E = 117.01'	F = 8.03'	E = 30.89'	E = 51.21'

WATERLINE NOTES

1. STA. 44+85.0~40'RT ℄ BROADWAY { 6"-22.5° BEND, 6"-11.25° BEND }
2. STA. 44+75.0~28.5'RT. ℄ BROADWAY { FIRE HYDRANT, 6"VALVE, 6"X 6"X6" TEE }
3. STA. 44+85.0~15.0'RT. ℄ BROADWAY { 10"X10"X 6" TEE }

PROPOSED STRUCTURE DATA COL-30-3593

TYPE:	CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK SLAB AND SUBSTRUCTURE.
SPANS:	49'-0", 68'-9", 54'-0" C/C BEARINGS (ALONG CENTERLINE).
ROADWAY:	35'-8" F/F PARAPETS
LIVE LOAD:	HS20-44 CASE II, AND ALTERNATE MILITARY LOADING
SKEW ANGLE:	12°-53'-04" R.F. (TO REF. LINE)
ALIGNMENT:	2° CURVE, LT.
SUPERELEVATION:	1/4" PER FOOT
WEARING SURFACE:	LATEX MODIFIED CONCRETE
APPROACH SLABS:	25' (AS-1-81)
SLOPE PROTECTION:	CONCRETE, 601-06
TRAFFIC DATA:	ADT (2010) 4,740 ADTT (2010) 130

PROPOSED STRUCTURE DATA COL-30-3592

TYPE:	CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK SLAB AND SUBSTRUCTURE.
SPANS:	56'-0', 70'-1', 56'-0" C/C BEARINGS (ALONG CENTERLINE).
ROADWAY:	VARIES
LIVE LOAD:	HS20-44 CASE II, AND ALTERNATE MILITARY LOADING
SKEW ANGLE:	17°-03'-22" R.F. (TO LOC. TAN.)
ALIGNMENT:	SEE PLAN
SUPERELEVATION:	VARIES
WEARING SURFACE:	LATEX MODIFIED CONCRETE
APPROACH SLABS:	25' (AS-1-81)
SLOPE PROTECTION:	CONCRETE, 601-06
TRAFFIC DATA:	ADT (2010) 11,930 ADTT (2010) 1,320

BRIDGE Nº COL-30-3592
U.S. 30 OVER
BROADWAY

STA. 46+90 BEGIN BROADWAY PHASE I CONSTRUCTION
TRAFFIC DETOURED OVER THIRD ST. & MARKET ST.
SEE SHEET 17

BRIDGE Nº COL-30-3593
RAMP "M" OVER
BROADWAY

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	84 & 85
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52	53	55	58	63	67	73	81			
			61	65	69	76	83	88	92	94
				72	78	86	90	93		

SCALE IN FEET
20 10 0 20 40

STA.995+00 TO STA.999+00

AA B/P

CALC. BY E.H.C. DATE 2-16-84
CHK'D BY L.C.K. DATE 12-12-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

84
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ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	WALK REMOVED 202 SQ FT	CURB REMOVED 202 LIN FT	CONC STEPS REMOVED 202 EACH	CONC WALL REMOVED 202 EACH	LIGHT POLE & FND. REMOVED 202 EACH
R-3	995+08	996+93	LT B/L NO 1	1288				
R-6	43+95	44+87	LT C/L BROADWAY	1900				
R-7	45+07	46+15	LT C/L BROADWAY	1556				
R-11	44+23	46+02	RT C/L BROADWAY		198			
R-12	995+05	997+65	LT B/L NO 1		265			
R-13	995+00	997+30	B/L NO 1		250			
R-14	997+47	997+86	RT B/L NO 1		45			
R-15	46+63	48+03	RT C/L BROADWAY		140			
R-16	43+94	44+88	LT C/L BROADWAY		110			
R-17	45+02	46+15	LT C/L BROADWAY		145			
R-18	998+37	999+00	LT B/L NO 1		65			
R-19	998+55	999+00	RT B/L NO 1		55			
R-20	46+77	48+11	LT C/L BROADWAY		137			
R-21	996+79		LT B/L NO 1			2		
R-22	995+90		LT B/L NO 1			2		
R-23	995+45	995+74	LT B/L NO 1	165				
R-24	995+12	997+65	LT B/L NO 1				1	
R-25	47+14	47+28	RT C/L BROADWAY				1	
R-26	47+52		RT C/L BROADWAY				1	
R-27	997+36	997+74	LT B/L NO 1	335				
R-28	49+10	49+80	RT C/L UNION	480				
R-29	49+10	49+77	RT C/L UNION		67			
R-31	995+00	997+30	B/L NO 1	2160				
R-32	47+15	48+03	RT C/L BROADWAY	1584				
R-33	998+37	999+00	LT B/L NO 1	585				
R-34	46+63	48+13	LT C/L BROADWAY	1378				
R-35	43+87	44+03	RT C/L BROADWAY		32			
RL-1	45+97		28' RT. C/L BROADWAY					1
RL-2	45+92		38' LT. C/L BROADWAY					1
RL-3	46+71		37' RT C/L BROADWAY					1
RL-4	46+84		39' LT. C/L BROADWAY					1
TOTAL				11431	1509	4	3	4

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	INLET REMOVED 202 EACH	PIPE REMOVED 24" AND UNDER 202 LIN FT	MANHOLE REMOVED 202 EACH	6" CONDUIT * TYPE F 603 LIN FT	6" SHALLOW PIPE UNDERDRAINS 605 LIN FT	6" UNCLASSIFIED PIPE UNDERDRAINS 605 LIN. FT.
R-1	49+38		5 LT C/L UNION			1			
R-2	45+84		20 RT C/L BROADWAY	1					
R-4	R-2	OUTLET			146				
R-5	45+85		20 LT C/L BROADWAY	1					
R-8	R-5	R-9			111				
R-9	47+06.50		35 LT C/L BROADWAY			1			
R-10	47+57	R/9	31 LT C/L BROADWAY		42				
U-58	996+65	MATCHLINE	B/L RAMP O					149	
U-59	996+05	MATCHLINE	B/L NO 1					103	
U-62	996+80	MATCHLINE	B/L NO 1					180	
U-72	MATCHLINE	A-70					10		127
U-73	MATCHLINE	A-124					10		141
U-74	45+48	MATCHLINE							263
U-75	45+30	A-102					10		237
U-76	47+86	MATCHLINE							16
U-77	996+90	A-127	B/L RAMP M				10	155	
TOTAL				2	299	2	40	587	784

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL, TYPE 5 606 LIN FT	ANCHOR ASSEMBLY, TYPE A 606 EACH	ANCHOR ASSEMBLY, TYPE T 606 EACH	BRIDGE TERMINAL ASSEMBLY, TYPE A 606 EACH	BRIDGE TERMINAL ASSEMBLY, TYPE J 606 EACH	GUARDRAIL TYPE 4 606 LIN FT.
GR-1	995+12	BRIDGE	LT B/L RAMP O	150		1		1	
GR-2	995+33	BRIDGE	RT B/L NO 1	215			1		
GR-3	995+38	BRIDGE	LT B/L RAMP M	150	1		1		
GR-4	995+00	BRIDGE	RT B/L RAMP M	200	1		1		
GR-5	995+00	995+25	LT B/L RAMP O						25
TOTAL				715	2	1	3	1	25

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	4" CONCRETE WALK 608 SQ FT	CURB RAMPS, TYPE 2 608 EACH	CURB, TYPE 6 609 LIN FT	COMBINATION CURB AND GUTTER, TYPE 2 AS PER PLAN 609 LIN FT	8" PLAIN CONCRETE PAVEMENT 452 SQ YD	ASPHALT CONCRETE CURB, TYPE I 609 LIN.FT
S-1	43+85	44+02	RT C/L BROADWAY	214					
S-2	43+93	44+76	LT C/L BROADWAY	1173					
S-3	44+30	48+00	RT C/L BROADWAY	2709					
S-4	45+01	47+80	LT C/L BROADWAY	1716					
CR-1	44+02		RT C/L BROADWAY		1				
CR-2	44+30		RT C/L BROADWAY		1				
C-1	43+85	44+02	RT C/L BROADWAY			31			
C-2	49+07		C/L UNION	23					
C-3	44+22	48+00	RT C/L BROADWAY			388			
C-4	43+93	48+10	LT C/L BROADWAY			397			
C-5	MATCHLINE	995+23	LT RAMP M				61		
C-6	995+34	BRIDGE	LT RAMP M				180		
DR-1	44+88.5		LT C/L BROADWAY					46.7	
AC-1	995+00	996+86	RT B/L Nº 1						186
TOTAL				5835	2	816	241	46.7	186

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	12" CONDUIT TYPE B 603 LIN FT	15" CONDUIT TYPE B 603 LIN FT	18" CONDUIT TYPE B 603 LIN FT	21" CONDUIT TYPE B 603 LIN FT	24" CONDUIT TYPE B 706.02 706.08 OR 707.13 603 LIN FT
P-71	A-71	A-74		25				
P-70	A-70	A-100					50	
P-72	A-72	A-71		24				
P-74	A-74	A-70						240
P-94	MATCHLINE	A-100				153		
P-95	A-95	A-96		48				
P-96	A-96	A-101					75	
P-100	A-100	A-96					154	
P-102	A-102	A-101		48				
P-123	MATCHLINE	A-124			95			
P-124	A-124	A-100			4			
P-127	A-127	MATCHLINE			65			
TOTAL				145	164	153	279	240

QUANTITIES

AA B/F

CALC. BY E.H.C. DATE 2-16-84
CHK'D BY L.C.K. DATE 12-12-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	24" CONDUIT TYPE B 603 LIN FT	6" CONDUIT TYPE C 706.08 W/706.12 JTS 603 LIN FT	10" CONDUIT TYPE B 706.08 W/706.12 JTS 603 LIN FT	MANHOLE STD NO 3 W/DROP & 706.11 JTS 604 EACH	CONCRETE MASONRY 602 CU YD
P-101	A-101	MATCHLINE		33				
P-311	MATCHLINE	A-312			27			
P-312	A-312	MATCHLINE				55		2.9
A-312	24+46.5		83 LT C/L THIRD				1	
TOTAL				33 ✓	27 ✓	55 ✓	1 ✓	2.9 ✓

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	MANHOLE ABANDONED 202 EACH	INLET ABANDONED 202 EACH	DITCH EROSION PROTECTION 670 SQ YD	REINFORCED SODDING 660 SQ YD	CROWNVETCH 661 EACH
AB-1	47+35		148 RT C/L BROADWAY	1				
AB-2	46+43		73 RT C/L BROADWAY	1				
AB-3	46+22		85 RT C/L BROADWAY		1			
AB-4	45+92		68 RT C/L BROADWAY	1				
AB-5	49+90		22 LT C/L UNION	1				
AB-6	45+97		40 RT C/L BROADWAY		1			
AB-7	46+15		50 LT C/L BROADWAY		1			
EC-1	995+00	996+00	LT B/L NO 1			88		
EC-2	A-74	996+50	LT B/L RAMP O			113		
EC-3	996+85		RT B/L NO 1				48	
EC-4	997+00		LT B/L MO 1			183		
EC-5	998+50		LT B/L NO 1			222		
EC-6	997+70		RT B/L NO 1			187		
EC-7	999+50		RT B/L NO 1			222		
CV-2	995+00	996+78	RT B/L NO 1					4550
CV-3	996+88	997+40	RT. B/L NO 1					2025
EC-8	994+80	A-74	LT B/L NO 1			12		
TOTAL				4	3	1027	48	6575

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	CONCRETE SLOPE PROTECTION 601 SQ YD	8" CONDUIT - TYPE F 603 LIN FT	8" BENDS & BRANCHES 603 EACH
CS-1	45+05	47+50	RT. C/L BROADWAY	1470.4		
CS-2	45-70	47+80	LT. C/L BROADWAY	1379.4		
*P-131	DOWNSPOUT	A-70	RT C/L BROADWAY		61	2
*P-132	DOWNSPOUT	A-95	RT. C/L BROADWAY		54	2
*P-204	DOWNSPOUT	DOWNSPOUT	RT. C/L BROADWAY		41	2
*P-205	DOWNSPOUT	DOWNSPOUT	RT. C/L BROADWAY		94	3
*P-206	DOWNSPOUT	DOWNSPOUT	RT. C/L BROADWAY		33	3
TOTAL				2849.8	283	

* FOR CLEANOUT DETAIL SEE SHEET 211

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	MANHOLE NO 1 604 EACH	CATCH BASIN NO 3 604 EACH	INLET NO 2A-10 604 EACH	INLET NO 2A-12 604 EACH	INLET NO 2A-20 604 EACH	CATCH BASIN NO 3A 604 EACH	CATCH BASIN NO 5 604 EACH
A-70	45+25		26 LT C/L BROADWAY					1		
A-71	49+10		11 RT C/L UNION		1					
A-72	49+10		12 LT C/L UNION		1					
A-95	47+00		26 RT C/L BROADWAY						1	
A-96	47+00		22 LT C/L BROADWAY	1						
A-100	45+46		22 LT C/L BROADWAY	1						
A-101	47+76		22 LT C/L BROADWAY	1						
A-102	47+76		26 RT C/L BROADWAY				1			
A-124	45+46		26 LT C/L BROADWAY					1		
A-127	995+25		27.25 LT B/L RAMP M			1				
A-74	995+00		139' LT. B/L NO. 1							1
TOTAL				3 ✓	2 ✓	1 ✓	1 ✓	2 ✓	1 ✓	1 ✓

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	10" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN FT	6" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN FT	10" GATE VALVE & VALVE BOX 814 EACH	6" GATE VALVE & VALVE BOX 814 EACH	FIRE HYDRANT 814 EACH
WL-1	43+87	48+04	15 RT C/L BROAD.	417		1		
WL-2	24+23	44+85	THIRD - BROADWAY		258		1	
WL-3	44+75	44+85	28.5 RT C/L BROAD		10		1	1
TOTAL				417	268	1	2	1

ESTIMATED QUANTITIES
SHEET NO. 83

CODE	LOCATION FROM	LOCATION TO	OFFSET	FIRE HYDRANT REMOVED & DISPOSED OF 814 EACH	4" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 EACH	3/4" SERVICE BRANCH 814 LIN. FT.	VALVE BOX ADJUSTED TO GRADE 814 EACH
WL-4	THIRD ST AT BROADWAY			1		5	
WL-5	44+43		15' RT. C/L BROADWAY				
WL-6	44+60		15' RT. C/L BROADWAY		10		
WL-7	44+60		8' LT. C/L BROADWAY				1
TOTAL				1	10	5	1

QUANTITIES

CALC. BY E.C. DATE 2-13-84
CHK'D BY L.K. DATE 12-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

86/362

COL - 30 - 35.29

MATCH LINE SEE SHEET Nº 78

MATCH LINE SEE SHEET Nº 83

MATCH LINE SEE SHEET Nº 90

FARMERS ALLEY

SHORT ALLEY

RELOC. SECOND ST.

RELOC. SECOND ST. CURVE Nº 1

BROADWAY

S 14°04'10" E

EAST SECOND ST.

LA

CONRAIL

EXIST. R/W

EXIST. R/W & CONST. LIMITS

CONST. LIMITS

TEMPORARY PAVEMENT CLASS B PHASE I

CONC. PAVEMENT

BRICK WALK

BRICK

CONC.

CONC. RAMP

CONC. WALL

POWER & TELE.

TELE.

TELEPHONE BOOTH

2 STY. BRICK

5' EX. WATER SERVICE TO REMAIN

G"G

G"SAN

G"W

24" STM.

15" STORM

15" STORM ABANDONED

PLUG 6" SAN.

6" STORM

24" C.I. STORM TO REMAIN

6" C.I. STORM TO REMAIN

PROP. 10" W.M.

PROP. 8" W.M.

TO BE ABANDONED

STA. 49+64.0 ± ~15'±RT. ℄ BROADWAY {10"X10"X6" TEE}

STA. 49+70.0 ~15' RT. ℄ BROADWAY {10"X6" REDUCER}

STA. 49+64.0 ~22'±RT. ℄ BROADWAY {6" SOLID SLEEVE}

STA 49+71.71 BROADWAY ℄ STA 29+65.84 RELOC. 2ND ST.

SEE NOTE 1

P.C.

P.T.

TOWER

OUTLET UNKNOWN

WATERLINE NOTES

1.) STA. 49+00.0~15'RT. ℄ BROADWAY {10"X10"X8" TEE}

CENTERLINE RELOCATED SECOND STREET
CURVE NO 1 DATA
P I STA 27+70.50
DELTA = 39°23'42" LT
Dc = 8°30'00"
R = 647.07'
T = 241.32'
L = 463.47'
CH = 454.40'
E = 41.89'

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4-16 B
TYPICAL SECTIONS	17-23
PROFILE SHEETS	96-106
QUANTITIES	87
SUPERELEVATION TABLES	107-109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202-209
STORM SEWER PROFILES	216-223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52	53	55	58	63	67	73	81	
			61	65	69	76	83	88	92	94
				72	78	86	90	93		

SCALE IN FEET
20 10 0 20 40

RT. ℄ 30-39
STA. 995+00 TO STA. 999+00

AA B/P

ESTIMATED QUANTITIES SHEET NO. 86				WALK REMOVED	CURB REMOVED	CONCRETE SLAB REMOVED	CONCRETE WALL REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 SQ FT	202 LIN FT	202 SQ FT	202 EACH
R-1	25+85	26+65	LT C/L SECOND	920			
R-2	48+13	49+20	LT C/L BROADWAY	750			
R-3	25+83	26+34	LT C/L SECOND			2000	
R-4	25+40	27+10	LT C/L SECOND		178		
R-5	27+28	28+11	RT C/L SECOND		110		
R-6	28+25	29+40	RT C/L SECOND		145		
R-7	25+45	29+47	RT C/L SECOND		440		
R-8	48+03	49+43	RT C/L BROADWAY		140		
R-9	48+13	49+20	LT C/L BROADWAY		105		
R-10	25+90		LT C/L SECOND				1
R-11	26+30		LT C/L SECOND				1
R-12	28+65	29+23	LT C/L SECOND				1
TOTAL				1670	1118	2000	3

ESTIMATED QUANTITIES SHEET NO. 86				4" CONCRETE WALK	CURB, TYPE 6	CONCRETE TRAFFIC ISLAND
CODE	LOCATION FROM	LOCATION TO	OFFSET	608 SQ FT	609 LIN FT	612 SQ YD
S-1	25+40	48+00	SECOND - BROADWAY	2506		
C-1	25+40	48+00	SECOND - BROADWAY		395	
C-2	25+47	29+81	RT C/L SECOND		440	
C-3	28+91	29+51	LT C/L SECOND		205	
C-4	48+10	48+67	C/L BROADWAY		58	
TI-1	28+93	29+50	LT C/L SECOND			183
TOTAL				2506	1098	183

ESTIMATED QUANTITIES SHEET NO. 86				MANHOLE NO 1	CATCH BASIN NO 3	INLET NO 2A-10	INLET NO 2A-6 AS PER PLAN	INLET NO 2A-18
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	604 EACH	604 EACH	604 EACH	604 EACH
A-87	26+50		4 LT C/L SECOND	1				
A-88	27+83		18 LT C/L SECOND			1		
A-89	27+83		18 RT C/L SECOND		1			
A-90	29+00		18 LT C/L SECOND				1	
A-97	27+20		18 LT C/L SECOND					1
A-103	48+37		22 LT C/L BROADWAY	1				
A-104	48+38		26 LT C/L BROADWAY					1
A-105	49+11		19 LT C/L BROADWAY	1				
TOTAL				3	1	1	1	2

ESTIMATED QUANTITIES SHEET NO. 86				MANHOLE ABANDONED	INLET ABANDONED	MANHOLE ADJUSTED TO GRADE
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 EACH	202 EACH	604 EACH
AB-1	28+21		39 RT C/L SECOND	1		
AB-2	28+32		45 RT C/L SECOND		1	
AB-3	28+67		73 RT C/L SECOND		1	
AB-4	29+45		23 RT C/L SECOND		1	
AMH-1	26+95		28 RT C/L SECOND			1
AMH-2	28+15		72 RT C/L SECOND			1
TOTAL				1	3	2

ESTIMATED QUANTITIES SHEET NO. 86				6" CONDUIT TYPE F	30" CONDUIT TYPE B, 700.02 300 C D-LOAD (AS PER PLAN)	24" CONDUIT TYPE B	6" UNCLASSIFIED UNDERDRAINS	
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	603 LIN FT	603 LIN FT	605 LIN FT	
U-66	MATCHLINE	A-97		10			162	
U-67	27+20	A-88	LT C/L SECOND	10			50	
U-68	MATCHLINE	A-89		10			230	
U-74	MATCHLINE	A-104		10			15	
U-76	MATCHLINE	A-88		10			175	
U-96	48+43	MATCHLINE	C/L BROADWAY	10			22	
U-99	MATCHLINE	A-89		14			185	
P-88	A-88	A-90				115		
P-90	A-90	A-105				86		
P-103	A-103	A-105				74		
P-105	A-105	MATCHLINE			10			
TOTAL				74	10	275	839	

CALC. BY E.H.C. DATE 2-16-84
CHK'D BY L.C.K. DATE 12-12-84

	FHWA REGION	STATE	PROJECT	
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COL-30-35.29

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ESTIMATED QUANTITIES SHEET NO. 86				12" CONDUIT TYPE B	21" CONDUIT TYPE B	24" CONDUIT TYPE C
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	603 LIN FT	603 LIN FT
P-85	MATCHLINE	A-87			109	
P-87	A-87	A-97			69	
P-89	A-89	A-88		36		
P-97	A-97	A-88				61
P-101	MATCHLINE	A-103			27	
P-104	A-104	A-103		4		
TOTAL				40	205	61

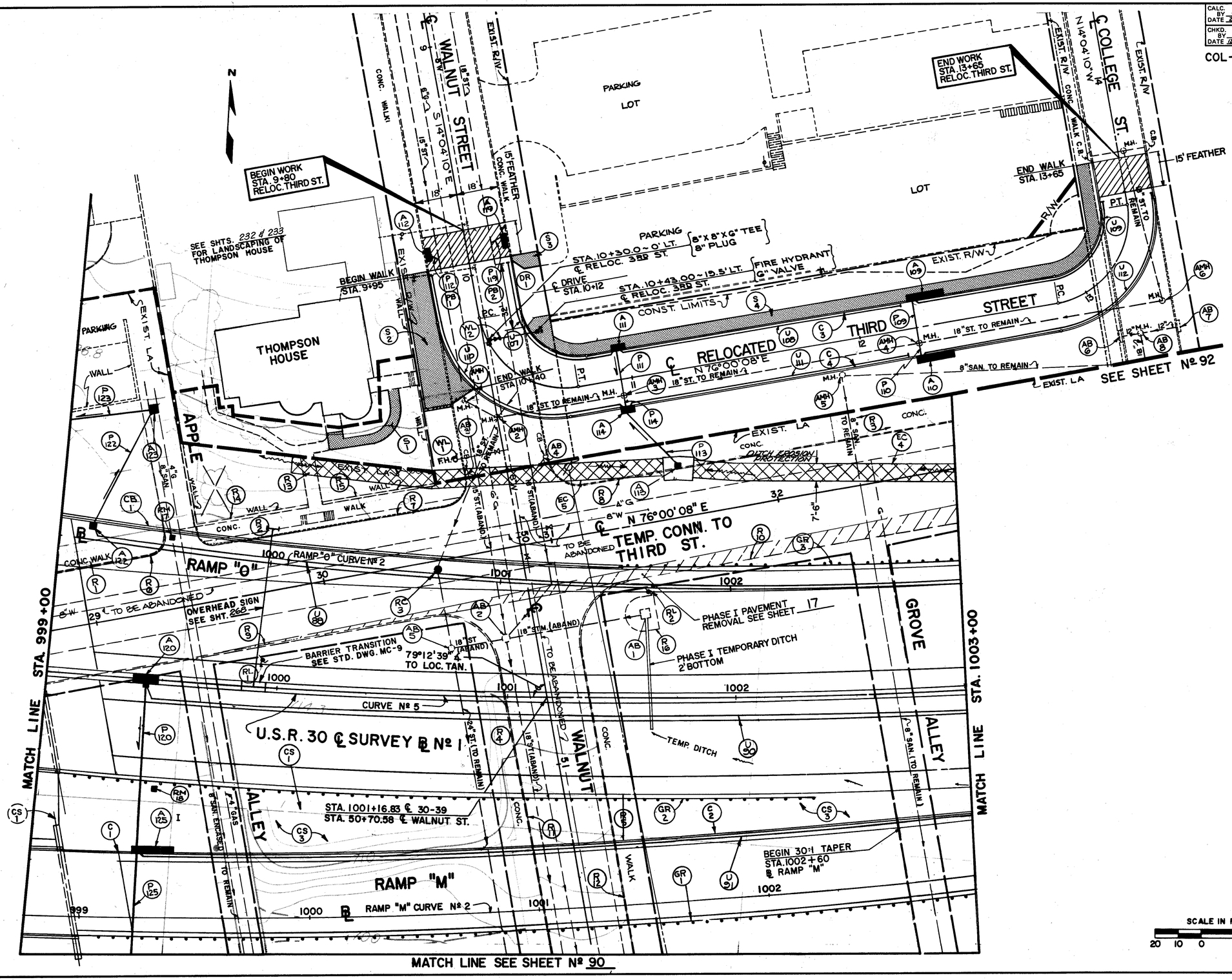
ESTIMATED QUANTITIES SHEET NO. 86				10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53 PUSH ON JOINTS AND FITTINGS	8" GATE VALVE & VALVE BOX	VALVE BOX ADJUSTED TO GRADE
CODE	LOCATION FROM	LOCATION TO	OFFSET	814 LIN FT	814 LIN FT	814 LIN FT	814 EACH	814 EACH
WL-1	48+04	49+70	15 RT C/L BROAD.	166				
WL-2	49+64		RT C/L BROAD.			7		
WL-3	49+00		RT+LT C/L BROAD.		39		1	
WL-4	BROADWAY AT SECOND							1
WL-5	BROADWAY AT SECOND							1
TOTAL				166	39	7	1	2

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

QUANTITIES

CALC. BY EC. DATE 2-15-89		OHIO	88
CHKD. BY LK. DATE 10-7-81		FHWA REGION 5	362

COL-30-35.29



BASELINE RAMP M
CURVE NO 2 DATA
P I STA 999+68.70
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Dc = 2°00'00"
R = 2864.79'
T = 544.11'
L = 1075.42'
CH = 1069.21'
E = 51.21'

BASELINE RAMP O
CURVE NO 2 DATA
P I STA 999+63.02
DELTA = 20°25' LT
Dc = 3°00'00"
R = 1909.86'
T = 344.90'
L = 682.45'
CH = 678.83'
E = 30.89'

BASELINE NO 1 CURVE NO 5 DATA
P I STA 1002+00.17
DELTA = 32°12'33" LT
DC = 2°00'00"
R = 2864.79'
T = 827.12'
L = 1610.45'
CH = 1589.33'
E = 117.01'

CENTERLINE RELOCATED THIRD STREET
CURVE NO 1 DATA
P I STA 10+55.14
DELTA = 89°55'42" LT.
R = 37.00'
T = 36.95'
L = 58.07'
CH = 52.28'
E = 15.19'

CENTERLINE RELOCATED THIRD STREET
P I STA 13+23.90
CURVE NO 2 DATA
DELTA = 90°04'18" LT
R = 37.00'
T = 37.05'
L = 58.17'
CH = 52.38'
E = 15.36'

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	89 & 89A
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52 53 55 58 61 63 65 67 69 72 73 76 78 81 83 86 88 90 92 93 94

SCALE IN FEET
20 10 0 20 40

STA. 999+00 TO STA. 1003+00

AA B/P

CALC. BY E.H.C. DATE 2-16-84
CHK'D BY L.C.K. DATE 12-12-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	WALK REMOVED 202 SQ FT	CURB REMOVED 202 LIN FT	CONCRETE WALL REMOVED 202 EACH	CONC SLAB REMOVED 202 SQ YD	LIGHT POLE AND FND. REMOVED 202 EACH
R-1	28+86	29+35	LT C/L CONNECTOR	470				
R-2	29+50	30+68	LT C/L CONNECTOR	1170				
R-3	31+05	32+80	LT C/L CONNECTOR	1750				
R-4	50+30	52+47	RT C/L WALNUT	1846				
R-5	50+30	52+47	LT C/L WALNUT	1812				
R-6	28+86	29+35	LT C/L CONNECTOR		60			
R-7	29+50	30+68	LT C/L CONNECTOR		130			
R-8	31+05	32+80	LT C/L CONNECTOR		185			
R-9	28+75	30+70	RT C/L CONNECTOR		205			
R-10	31+04	32+74	RT C/L CONNECTOR		182			
R-11	50+52	51+81	RT C/L WALNUT		125			
R-12	50+52	51+87	LT C/L WALNUT		135			
R-13	30+03		LT C/L CONNECTOR	132				
R-14	29+50	29+99	LT C/L CONNECTOR			1		
R-15	30+05	30+50	LT C/L CONNECTOR			1		
R-16	1001+50	1001+65	37' LT B/L NO. 1				180	
RL-1	999+93		13' LT B/L NO. 1					1
RL-2	1001+60		46' LT B/L NO 1					1
TOTAL				7180	1022	2	180	2

ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	GUARDRAIL, TYPE 5 606 LIN FT	ANCHOR ASSEMBLY, TYPE T 606 EACH	BRIDGE TERMINAL ASSEMBLY, TYPE J 606 EACH	BRIDGE TERMINAL ASSEMBLY, TYPE A 606 EACH	CONCRETE BARRIER TYPE D AS PER PLAN 622 LIN FT
GR-1	BRIDGE	1002+89	RT B/L RAMP M	392		1		
GR-2	BRIDGE	1002+28	RT B/L NO 1	312.5	1	1		
GR-3	1001+50	1002+98	LT B/L NO 1	147			1	
CB-1	998+92	1001+50	LT B/L NO 1					255
TOTAL				851.5	1	2	1	255

ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	12" CONDUIT TYPE B 603 LIN. FT.	15" CONDUIT TYPE B 603 LIN. FT.	18" CONDUIT TYPE B 603 LIN. FT.	15" CONDUIT 706.02 200# D LOAD OR 707.13 603 LIN. FT.	15" CONDUIT TYPE B 707.13 603 LIN. FT.	15" CONDUIT TYPE C 603 LIN. FT.	DITCH EROSION PROTECTION 670 SQ. YD.
P-109	A-109	AMH-4				18				
P-110	A-110	AMH-4		6						
P-111	A-111	AMH-3		18						
P-112	A-112	EX.15"		8						
P-113	A-113	A-114			32					
P-114	A-114	AMH-3			6					
P-119	A-119	EX.18"		8						
P-120	A-120	A-125					73			
P-122	A-122	A-123						54		
P-123	A-123	MATCHLINE							37	
P-125	A-125	MATCHLINE					45			
EC-4	A-113	1003+00	LT B/L Nº1							92
EC-5	1000+00	1001+75	LT B/L Nº1							146
TOTAL				40	38	18	118	54	37	238

ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	9" CONCRETE BASE 305 SQ YD	MANHOLE RECONST. TO GRADE 604 EACH	MANHOLE ADJUSTED TO GRADE 604 EACH
PB-1	9+88		RT C/L WALNUT	2.67		
PB-2	9+88		LT C/L WALNUT	2.67		
AMH-1	10+43		24 RT C/L THIRD			1
AMH-2	10+50		20 RT C/L THIRD			1
AMH-3	10+95		6 RT C/L THIRD			1
AMH-4	12+25		6 RT C/L THIRD			1
AMH-5	11+90		15 RT C/L THIRD			1
RC-3	50+07		37 LT C/L WALNUT		1	
AMH-6	13+16		26 RT C/L THIRD			1
TOTAL				5.34	1	6

ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	4" CONCRETE WALK 608 SQ FT	CURB, TYPE 6 609 LIN FT	REFERENCE MONUMENT 604 EACH	8" PLAIN CONCRETE PAVEMENT 452 SQ YD	CONCRETE SLOPE PROTECTION 601 SQ YD.	COMBINATION CURB AND GUTTER TYPE 2 AS PER PLAN 609 LIN. FT.
S-1	1000+15	1000+49	LT B/L NO 1	209					
S-2	9+95	10+40	RT C/L RELOC 3RD	805					
S-3	9+95	10+02	LT C/L RELOC 3RD	72					
S-4	10+23	13+65	LT C/L RELOC 3RD	1677					
C-1	998+93	999+22	LT B/L RAMP M		29				
C-2	999+40	1002+91	LT B/L RAMP M						346
C-3	9+95	13+65	LT C/L RELOC 3RD		330				
C-4	9+95	13+65	RT C/L RELOC 3RD		415				
DR-1	10+12		LT C/L RELOC 3RD				31.4		
RM-17	999+50		62 LT B/L NO. 1			1			
RM-18	999+50		47 RT B/L NO. 1			1			
CS-1	998+96.5	1004+00	RT B/L NO. 1					1205.3	
TOTAL				2763	774	2	31.4	1205.3	346

ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	INLET Nº 2A-16 604 EACH	INLET Nº 2A-6 604 EACH	CATCH BASIN Nº 3 604 EACH	CATCH BASIN Nº 5 604 EACH	CATCH BASIN Nº 6 604 EACH	INLET Nº I-3B 604 EACH	INLET Nº 2A-18 604 EACH
A-109	12+25		12' LT ℄ THIRD	1						
A-110	12+25		12' RT ℄ THIRD	1						
A-111	10+95		12' LT. ℄ THIRD		1					
A-112	9+88		18' RT. ℄ WALNUT			1				
A-113	1001+75		101' LT. ℄ Nº1				1			
A-114	10+95		12' RT. ℄ THIRD		1					
A-119	9+88		18' LT. ℄ WALNUT			1				
A-120	999+43		℄ Nº1						1	
A-122	999+15		64.95 LT. ℄ Nº1					1		
A-123	999+37		117' LT. ℄ Nº1				1			
A-125	999+25		27.25' LT. ℄ RAMP M							1
TOTAL				2	2	2	2	1	1	1

ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	MANHOLE ABANDONED 202 EACH	CATCH BASIN ABANDONED 202 EACH	6" CONDUIT TYPE F ** 603 LIN LT	6" SHALLOW UNDERDRAINS 605 LIN FT	6" UNCLASSIFIED UNDERDRAINS
AB-1	50+42		49 LT C/L WALNUT		1			
AB-2	50+42		14 RT C/L WALNUT	1				
AB-3	49+68		18 RT C/L WALNUT		1			
AB-4	49+68		18 LT C/L WALNUT		1			
* AB-5	50+43		37 -T C/L WALNUT	1				
AB-6	49+60		9 RT C/L COLLEGE		1			
AB-7	49+60		12 LT C/L COLLEGE		1			
AB-8	49+60		3 RT C/L COLLEGE	1				
U-88	MATCHLINE	A-122				10	377	
U-90	MATCHLINE	A-120				10	344	
U-91	MATCHLINE	A-125				20	346	
U-107	9+97	10+95	LT C/L THIRD			10		66
U-108	12+20	10+97	LT C/L THIRD			10		113
U-109	13+48	12+26	LT C/L THIRD			10		97
U-110	9+97	10+95	RT C/L THIRD			10		107
U-111	12+20	10+97	RT C/L THIRD			10		113
U-112	13+48	12-26	RT C/L THIRD			10		131
TOTAL				3	5	100	1067	627

* CONNECT PIPE THRU

** 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

QUANTITIES

AA B/P

ESTIMATED QUANTITIES
SHEET NO. 88

CODE	LOCATION FROM	LOCATION TO	OFFSET	FIRE HYDRANT REMOVED & DISPOSED OF 814 EACH	FIRE HYDRANT 814 EACH	6" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN FT	6" GATE VALVE & VALVE BOX 814 EACH	8" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN FT
WL-1	THIRD ST AT WALNUT			1				
WL-2	10+30	10+43	LT C/L RELOC 3RD		1	22	1	2
TOTAL				1	1	22	1	2

CALC. BY E.H.C. DATE 2-17-84
CHK'D BY L.C.K. DATE 12-13-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

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QUANTITIES

AA B/P

CALC. BY EC. DATE 2-9-84		OHIO	90
CHKD. BY LK DATE 12/7/84		FHWA REGION 5	362

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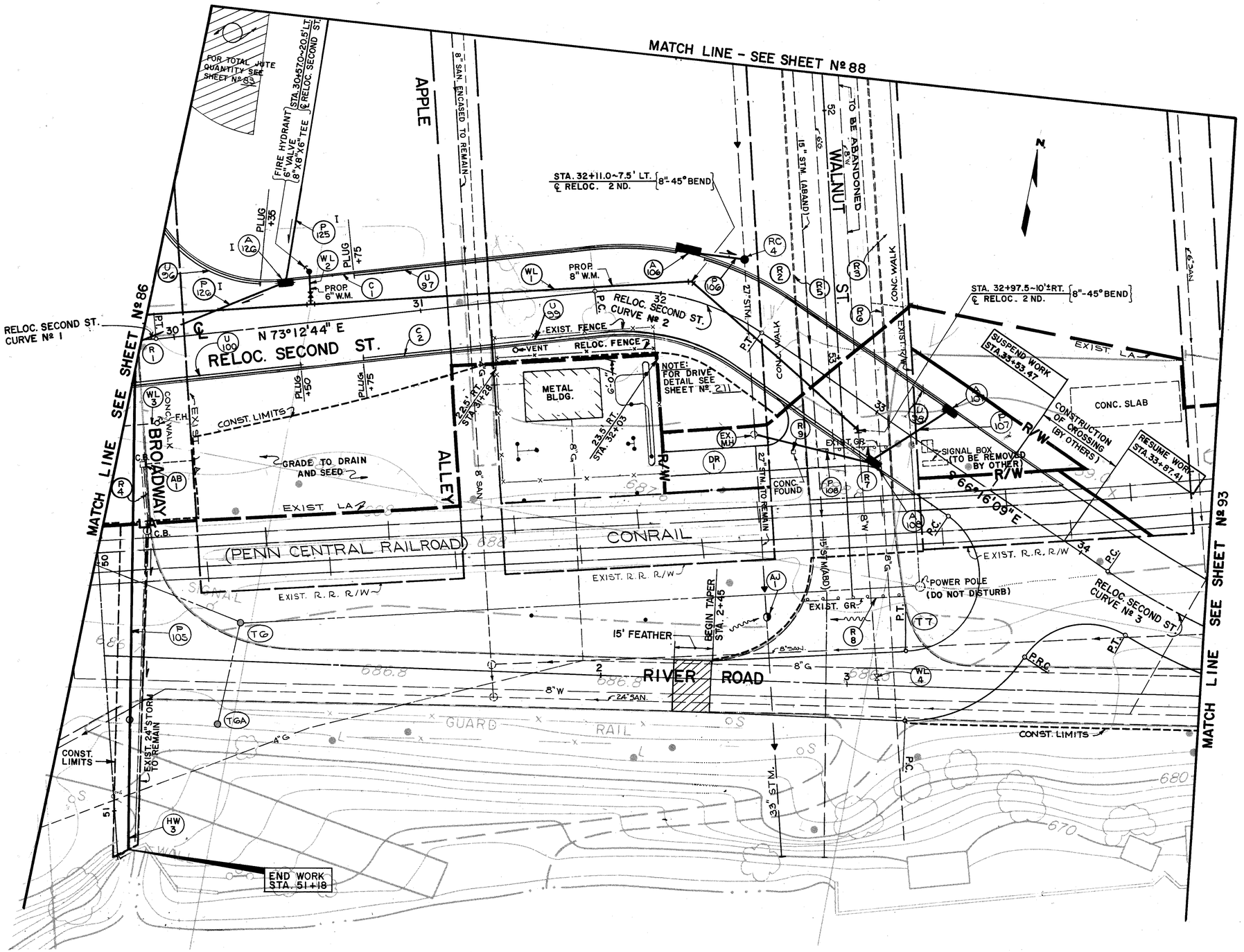
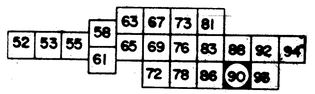
CENTERLINE RELOCATED SECOND STREET
CURVE NO 1 DATA
P I STA 27+70.50
DELTA = 39°23'42" LT
Dc = 8°30'00"
R = 647.07'
T = 241.32'
L = 463.47'
CH = 454.40'
E = 41.89'

CENTERLINE RELOCATED SECOND STREET
CURVE NO 2 DATA
P I STA 32+09.63
DELTA = 40°31'08" RT
R = 100.00'
T = 36.91'
L = 70.72'
CH = 69.25'
E = 6.59'

CENTERLINE RELOCATED SECOND STREET
CURVE NO 3 DATA
P I STA 34+99.90
DELTA = 33°29'34" LT
Dc = 20°00'00"
R = 286.48'
T = 86.18'
L = 167.42'
CH = 165.05'
E = 12.68'



CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	91
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231



SCALE IN FEET
20 10 0 20 40

RT. ℄ 30-39
STA. 999+00 TO STA. 1003+00

CALC. BY E.H.C. DATE 2-17-84
CHK'D BY L.C.K. DATE 12-13-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

ESTIMATED QUANTITIES
SHEET NO. 90

CODE	LOCATION FROM	LOCATION TO	OFFSET	WALK REMOVED 202 SQ FT	CURB REMOVED 202 LIN FT	GUARDRAIL REMOVED 202 LIN FT	POLE FND. REMOVED 202 EACH	INLET ABANDONED 202 EACH
R-1	MATCHLINE	49+60	LT C/L BROADWAY	1548				
R-2	MATCHLINE	53+47	RT C/L WALNUT	2393				
R-3	MATCHLINE	52+81	LT C/L WALNUT	1148				
R-4	MATCHLINE	49+84	LT C/L BROADWAY		68			
R-5	MATCHLINE	53+56	RT C/L WALNUT		174			
R-6	MATCHLINE	53+56	LT C/L WALNUT		168			
R-7	53+36		C/L WALNUT			30		
R-8	53+97		C/L WALNUT			40		
R-9	53+36		20' RT. C/L WALNUT				1	
AB-1	49+61		19 LT C/L BROADWAY					1
TOTAL				5089	410	70	1	1

ESTIMATED QUANTITIES
SHEET NO. 90

CODE	LOCATION FROM	LOCATION TO	OFFSET	12" CONDUIT TYPE C 603 L.F.	12" CONDUIT TYPE B 603 LIN FT	15" CONDUIT TYPE B 603 LIN FT	30 CONDUIT TYPE B 706.02 300C-D-LOAD UNDER RAILROAD AS PER PLAN 603 LIN FT	8" PLAIN CONCRETE PAVEMENT 452 SQ YD	MANHOLE ADJUSTED TO GRADE 604 EACH	15" CONDUIT TYPE B 706.02 2000-D-LOAD
P-105	MATCHLINE	HW-3					196			
P 106	A-106	RC-4		17						
P-107	A-107	A-108			39					
P-108	A-108	EX. MH.			48					
P-126	A-126	MATCHLINE				60				
DR-1	33+00		RT C/L SECOND					105		
AJ-1	2+67		27 LT C/L RIVER RD						1	
P-125	MATCHLINE	A-126								108
TOTAL				17	87	60	196	105	1	108

ESTIMATED QUANTITIES
SHEET NO. 90

CODE	LOCATION FROM	LOCATION TO	OFFSET	CONCRETE MASONRY 602 CU YD	6" CONDUIT * TYPE F 603 LIN FT	6" UNCLASSIFIED UNDERDRAINS 605 LIN FT	605 LIN FT
HW-3	51+18		2' LT C/L BROADWAY	1.18			
U-96	MATCHLINE	30+35	LT C/L SECOND			45	
U-97	30+75	A-106	LT C/L SECOND		10	122	
U-98	A-106	A-107			10	105	
U-99	30+75	A-108			10	212	
U-100	MATCHLINE	30+50	RT C/L SECOND			68	
TOTAL				1.18	30	552	

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ESTIMATED QUANTITIES
SHEET NO. 90

CODE	LOCATION FROM	LOCATION TO	OFFSET	CATCH BASIN NO 3 604 EACH	CATCH BASIN NO 3 AS PER PLAN 604 EACH	MANHOLE RECONST. TO GRADE-USE NEW HEAVY DUTY SLOTTED COVER AS PER PLAN 604 EACH	CURB, TYPE 6 609 LIN FT		INLET Nº 2A-10 604 EACH
A-106	32+10		18 LT C/L SECOND						1
A-107	33+24		18 LT C/L SECOND	1					
A-108	33+10		18 RT C/L SECOND		1				
A-126	30+47		18 LT C/L SECOND	1					
RC-4	52+58		37 RT C/L WALNUT			1			
C-1	30+00	33+75	LT C/L SECOND				373		
C-2	29+81	33+29	RT C/L SECOND				325		
TOTAL				2	1	1	698		1

ESTIMATED QUANTITIES
SHEET NO. 90

CODE	LOCATION FROM	LOCATION TO	OFFSET	8" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN FT	6" Water Main Ductile Iron Pipe ANSI Class 53 Push On Joints And Fittings 814 LIN FT	6" GATE VALVE & VALVE BOX 814 EACH	FIRE HYDRANT 814 EACH	FIRE HYDRANT REMOVED AND DISPOSED OF 814 EACH	VALVE BOX ADJ. TO GRADE 814 EACH
WL-1	MATCHLINE	32+97.5	SECOND-BROADWAY	310					
WL-2	30+56	30+57	LT C/L SECOND		14	1	1		
WL-3	SECOND AT BROADWAY							1	
WL-4	RIVER RD AT WALNUT ST								1
TOTAL				310	14	1	1	1	1

QUANTITIES

CALC. BY E.C. DATE 2-16-84
CHK'D BY L.K. DATE 12-17-84

FHWA REGION	STATE	PROJECT	
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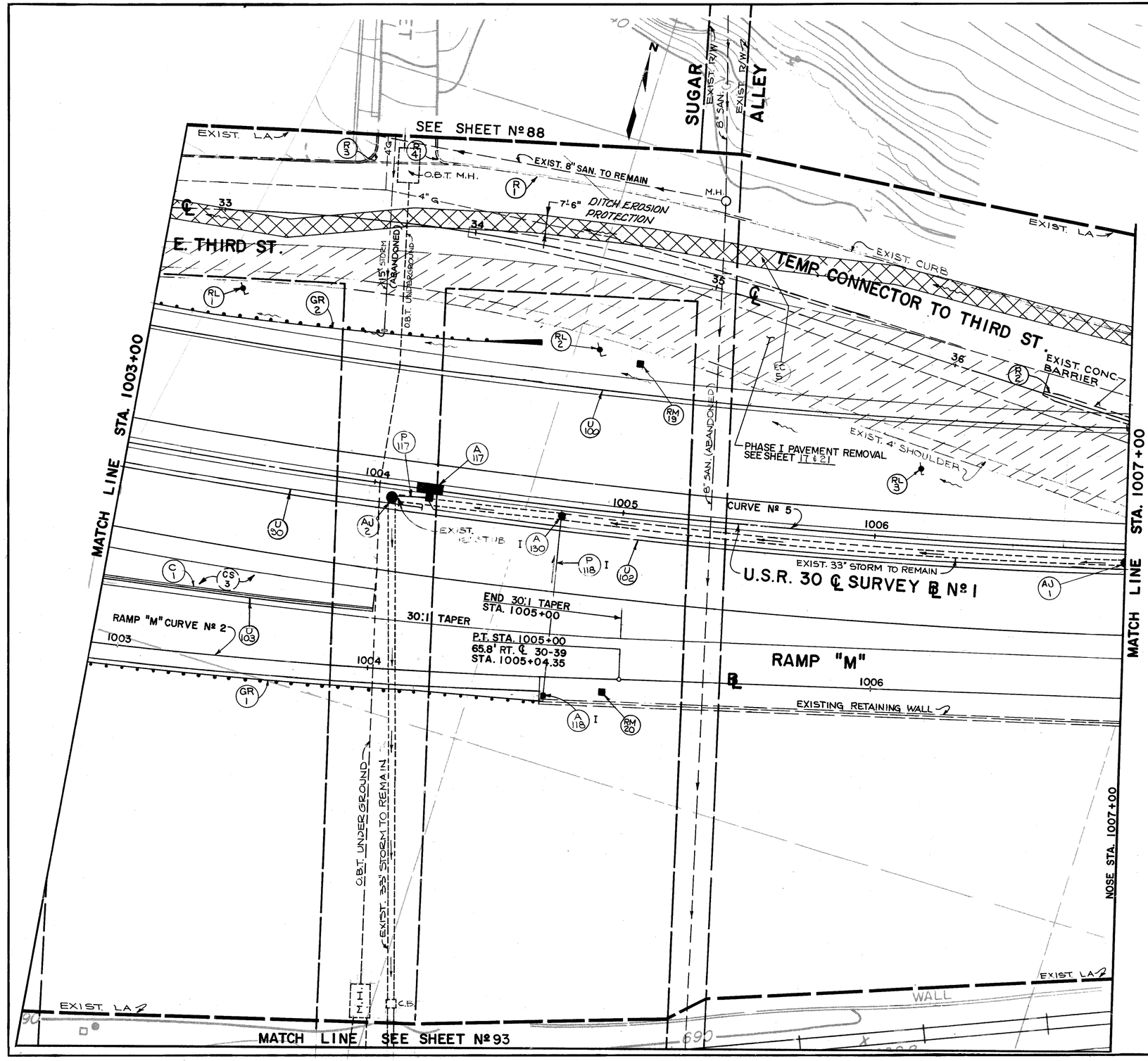
BASELINE NO 1 CURVE NO 5 DATA
P I STA 1002+00.17
DELTA = 32°12'33" LT
DC = 2°00'00"
R = 2864.79'
T = 827.12'
L = 1610.45'
CH = 1589.33'
E = 117.01'

BASELINE RAMP M
CURVE NO 2 DATA
P I STA 999+68.70
DELTA = 21°30'30" LT
Dc = 2°00'00"
R = 2864.79'
T = 544.11'
L = 1075.42'
CH = 1069.21'
E = 51.21'



CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4 - 16 B
TYPICAL SECTIONS	17 - 23
PROFILE SHEETS	96 - 106
QUANTITIES	95
SUPERELEVATION TABLES	107 - 109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202 - 209
STORM SEWER PROFILES	216 - 223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52 53 55 58 61 63 65 72 67 69 78 73 76 81 83 86 88 90 92 93 94

SCALE IN FEET
20 10 0 20 40

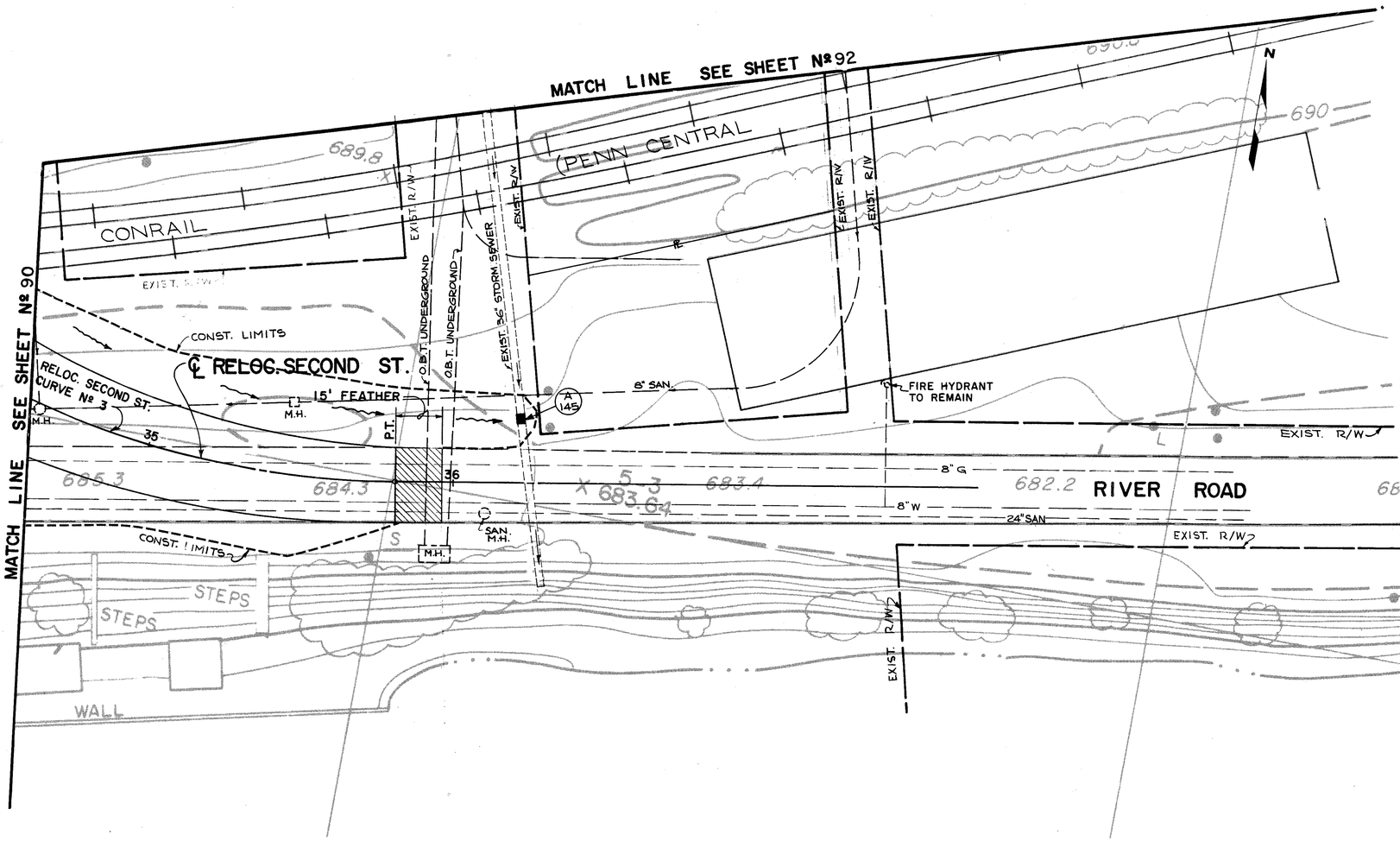
STA. 1003+00 TO STA. 1007+00

CALC. BY E.C. DATE 11-29-83
CHK'D BY L.K. DATE 12-14-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

93
362

COL - 30 - 35.29



CENTERLINE RELOCATED
SECOND STREET
CURVE NO 3 DATA
P I STA 34+99.90
DELTA = 33°29'34" LT
Dc = 20°00'00"
R = 286.48'
T = 86.18'
L = 167.42'
CH = 165.05'
E = 12.68'

ESTIMATED QUANTITIES				NO. 2-4 CATCH BASIN WITH WINDOWS	
CODE	LOCATION FROM	LOCATION TO	OFFSET	604 EACH	
A-145	36+22		20' RT. C/L 2ND ST.	1	
TOTAL				1	

SCALE IN FEET
20 10 0 20 40

CROSS-REFERENCE	SHEET NO.
HORIZONTAL AND VERTICAL CONTROL	2 & 3
MAINTENANCE OF TRAFFIC AND CONSTRUCTION SEQUENCE	4-16 B
TYPICAL SECTIONS	17-23
PROFILE SHEETS	96-106
QUANTITIES	—
SUPERELEVATION TABLES	107-109
GEOMETRIC PLAN AND PAVEMENT DETAILS	202-209
STORM SEWER PROFILES	216-223
SANITARY SEWER PROFILES	224 & 225
WATERLINE PROFILES	230 & 231

52 53 55 58 61 63 67 73 81 65 69 76 83 88 92 94 72 78 86 90 93

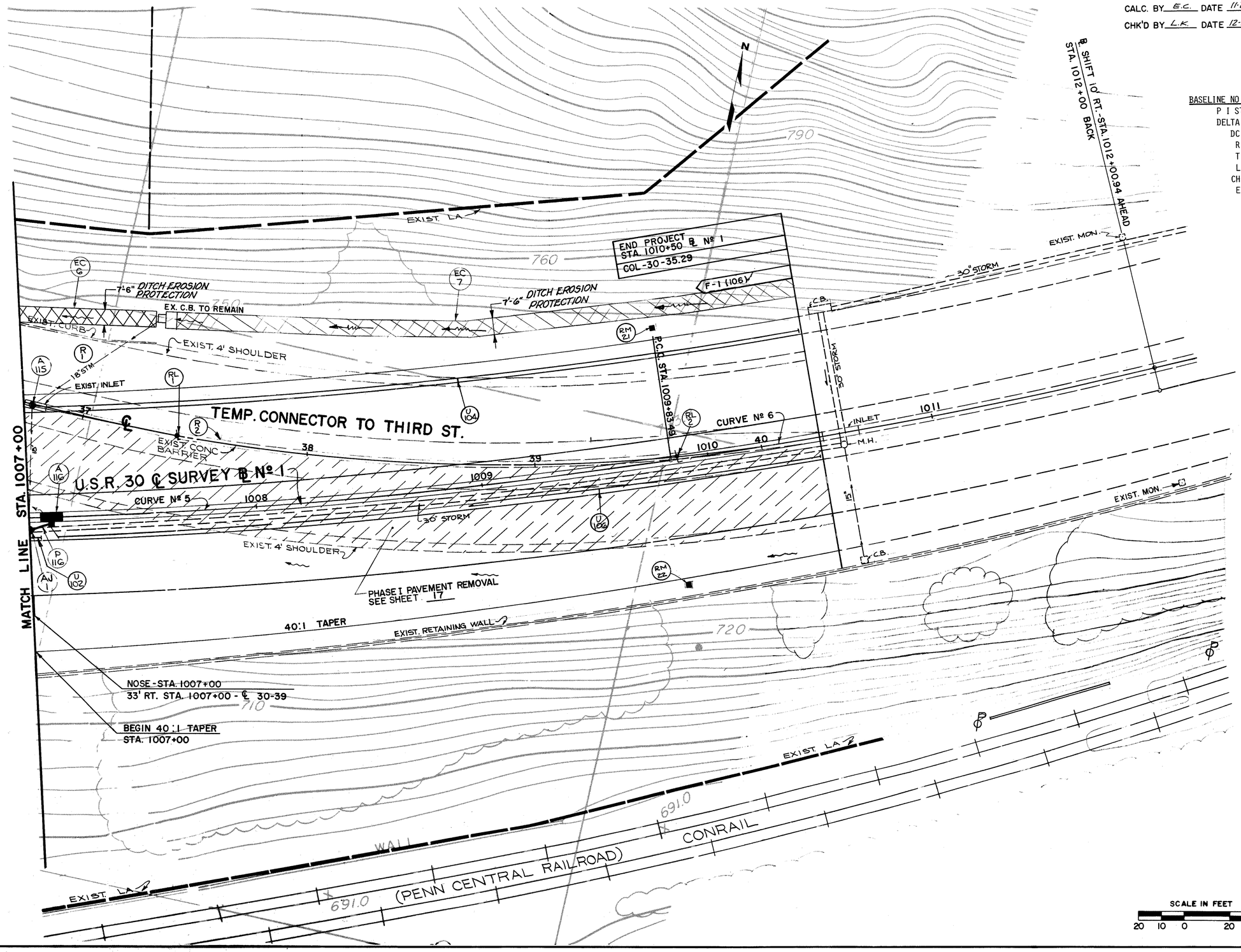
RT. ℄ 30-39
STA. 1003+00 TO STA. 1007+00

CALC. BY E.C. DATE 11-29-84
CHK'D BY L.K. DATE 12-14-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

94
362

COL - 30 - 35.29



BASELINE NO 1 CURVE NO 5 DATA
P I STA 1002+00.17
DELTA = 32°12'33" LT
DC = 2°00'00"
R = 2864.79'
T = 827.12'
L = 1610.45'
CH = 1589.33'
E = 117.01'

BASELINE NO 1 CURVE NO 6 DATA
P I STA 1010+91.83
DELTA = 5°24'45" LT
Dc = 2°30'00"
R = 2291.83'
T = 108.33'
L = 216.50'
CH = 216.42'
E = 2.56'

52 53 55 58 61 63 65 67 69 72 73 76 78 81 83 86 88 90 92 93 94

STA. 1007+00 TO END

AA B/P

ESTIMATED QUANTITIES SHEET NO. 92				CURB REMOVED	CONCRETE BARRIER REMOVED	LIGHT POLE AND FND. REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 LIN FT	202 LIN FT	202 EACH
R-1	32+82	36+62	LT C/L CONNECTOR	387		
R-2	36+37	36+73	C/L CONNECTOR		36	
R-3	33+59		LT C/L CONNECTOR	20		
R-4	33+81		LT C/L CONNECTOR	20		
RL-1	33+08		RT C/L CONNECTOR			1
RL-2	34+58		RT C/L CONNECTOR			1
RL-3	36+00		RT C/L CONNECTOR			1
TOTAL				427	36	3

ESTIMATED QUANTITIES SHEET NO. 92				15" CONDUIT TYPE B	CATCH BASIN NO 6	INLET NO 1-3B	MANHOLE ADJ. TO GRADE	MANHOLE NO 5
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	604 EACH	604 EACH	604 EACH	604 EACH
AJ-1	1007+00		6 RT B/L NO 1				1	
AJ-2	1004+07		5 RT B/L NO 1				1	
P-118	A-118	A-130		72				
A-117	1004+22		B/L NO 1			1		
A-118	1004+75		75.21 RT B/L NO 1		1			
A-130	1004+76		4 RT B/L NO 1					1
P-117	A-117	AJ-2		15				
TOTAL				87	1	1	2	1

ESTIMATED QUANTITIES SHEET NO. 92				GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE A	BRIDGE TERMINAL ASSEMBLY, TYPE A	REFERENCE MONUMENT		COMBINATION CURB & GUTTER TYPE 2 AS PER PLAN
CODE	LOCATION FROM	LOCATION TO	OFFSET	606 LIN FT	606 EACH	606 EACH	604 EACH		609 LIN FT.
GR-1	1003+00	RET WALL	RT B/L NO 1	180		1			
GR-2	1003+00	1004+57	LT B/L NO 1	130	1				
RM-19	1005+00		60 LT B/L NO. 1				1		
RM-20	1005+00		72 RT B/L NO. 1				1		
C-1	1003+00	1004+05							108
TOTAL				310	1	1	2		108

ESTIMATED QUANTITIES SHEET NO. 92				6" CONDUIT * TYPE F	6" SHALLOW PIPE UNDERDRAINS	DITCH EROSION PROTECTION
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	605 LIN FT	670 SQ YD
U-90	1004+20	MATCHLINE	RT B/L NO 1		120	
U-100	1006+99	MATCHLINE	LT B/L NO 1		392	
U-102	MATCHLINE	A-117		10	270	
U-103	1004+05	MATCHLINE	B/L RAMP M		109	
EC-5	1003+00	1007+00				317
TOTAL				10	891	317

ESTIMATED QUANTITIES SHEET NO. 94				CURB REMOVED	CONCRETE BARRIER REMOVED	LIGHT POLE AND FND. REMOVED
CODE	LOCATION FROM	LOCATION TO	OFFSET	202 LIN FT	202 LIN FT	202 EACH
R-1	36+62	37+24	LT C/L CONNECTOR	60		
R-2	1007+00	1010+50	LT B/L NO 1		353	
RL-1	37+42		C/L CONNECTOR			1
RL-2	39+62		C/L CONNECTOR			1
TOTAL				60	353	2

ESTIMATED QUANTITIES SHEET NO. 94				15" CONDUIT TYPE B	MANHOLE NO 1	INLET NO 1-3B	REFERENCE MONUMENT
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	604 EACH	604 EACH	604 EACH
P-116	A-116	AJ-1		10			
A-115	1007+04		47.5 LT B/L NO 1		1		
A-116	1007+10	A-116	B/L NO 1			1	
RM-21	1009+83.5		59 LT B/L NO. 1				1
RM-22	1009+83.5		55 RT B/L NO. 1				1
TOTAL				10	1	1	2

ESTIMATED QUANTITIES SHEET NO. 94				6" CONDUIT * TYPE F	6" SHALLOW PIPE UNDERDRAINS	DITCH EROSION PROTECTION
CODE	LOCATION FROM	LOCATION TO	OFFSET	603 LIN FT	605 LIN FT	670 SQ YD
U-102	1007+05	MATCHLINE	RT B/L NO 1		5	
U-104	1010+50	A-115	LT B/L NO 1	10	326	
U-106	1010+50	A-116	B/L NO 1	10	330	
EC-6	1007+00	EX. CB.				51
EC-7	EX CB	1010+50				227
TOTAL				20	661	278

* 707.17 Non-Perforated ASTM 3034 SDR 35 Or Supplemental Specification 931

CALC. BY E.H.C. DATE 2-17-84
CHK'D BY LCK DATE 12-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

COL - 30 - 35.29

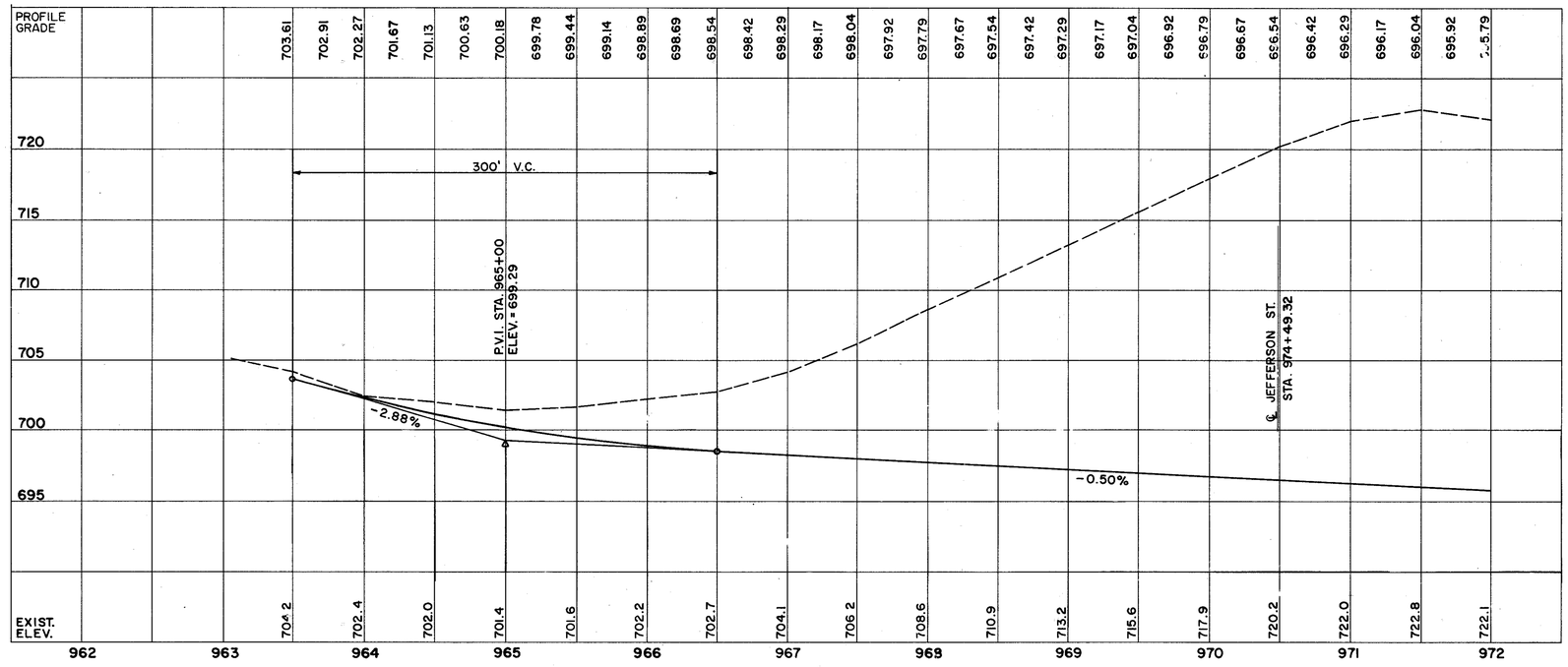
95
362

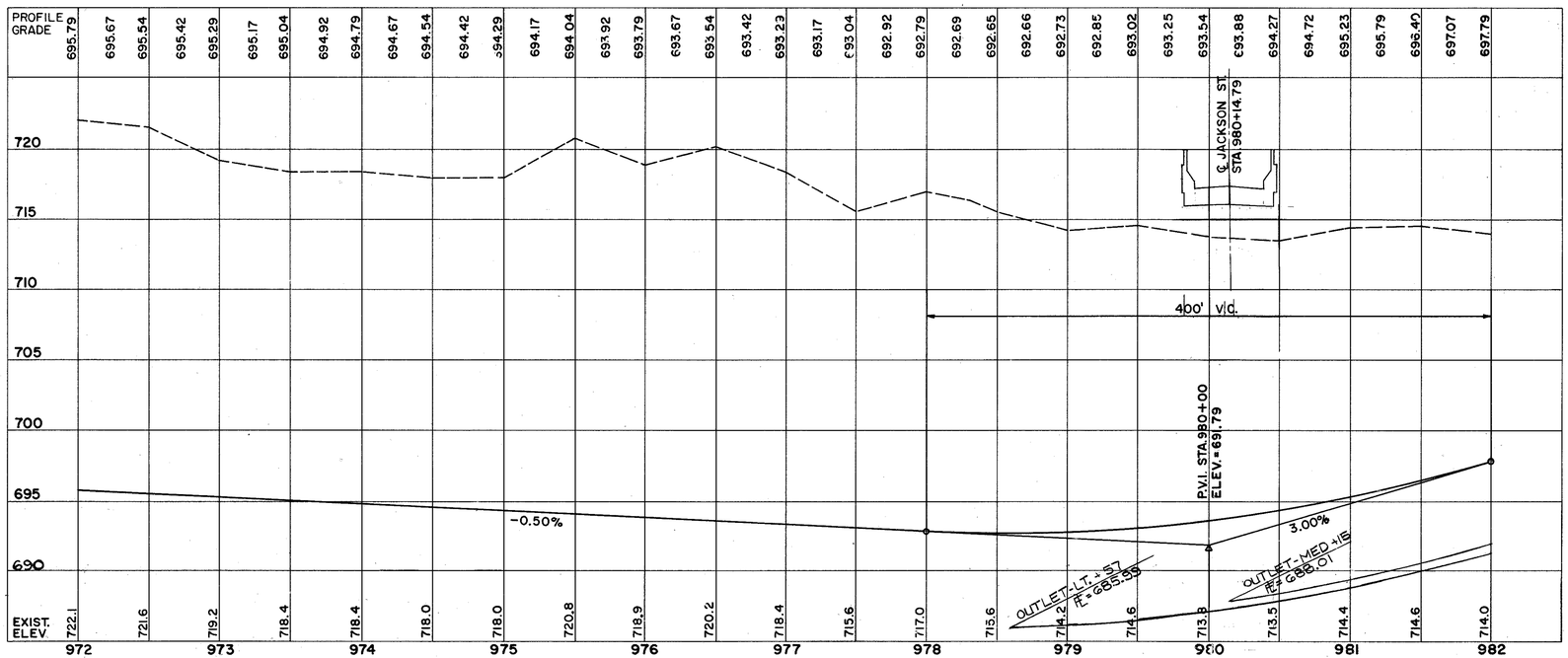
QUANTITIES

FHWA REGION	STATE	PROJECT	
5	OHIO		

96
362

COL-30-35.29



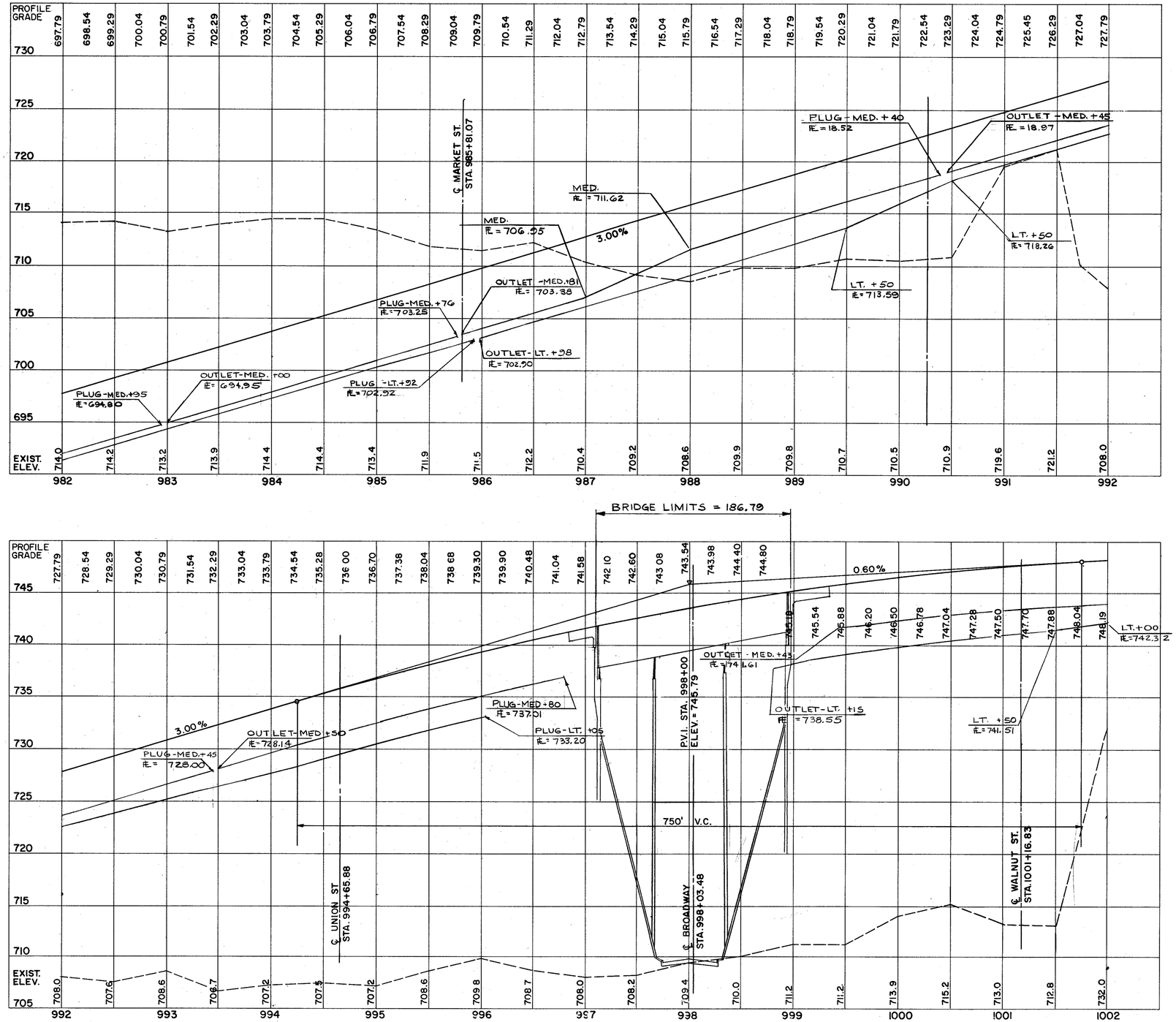


PROFILE
STA. 963+50 TO STA. 982+00

FHWA REGION	STATE	PROJECT	
5	OHIO		

97
362

COL-30-35.29

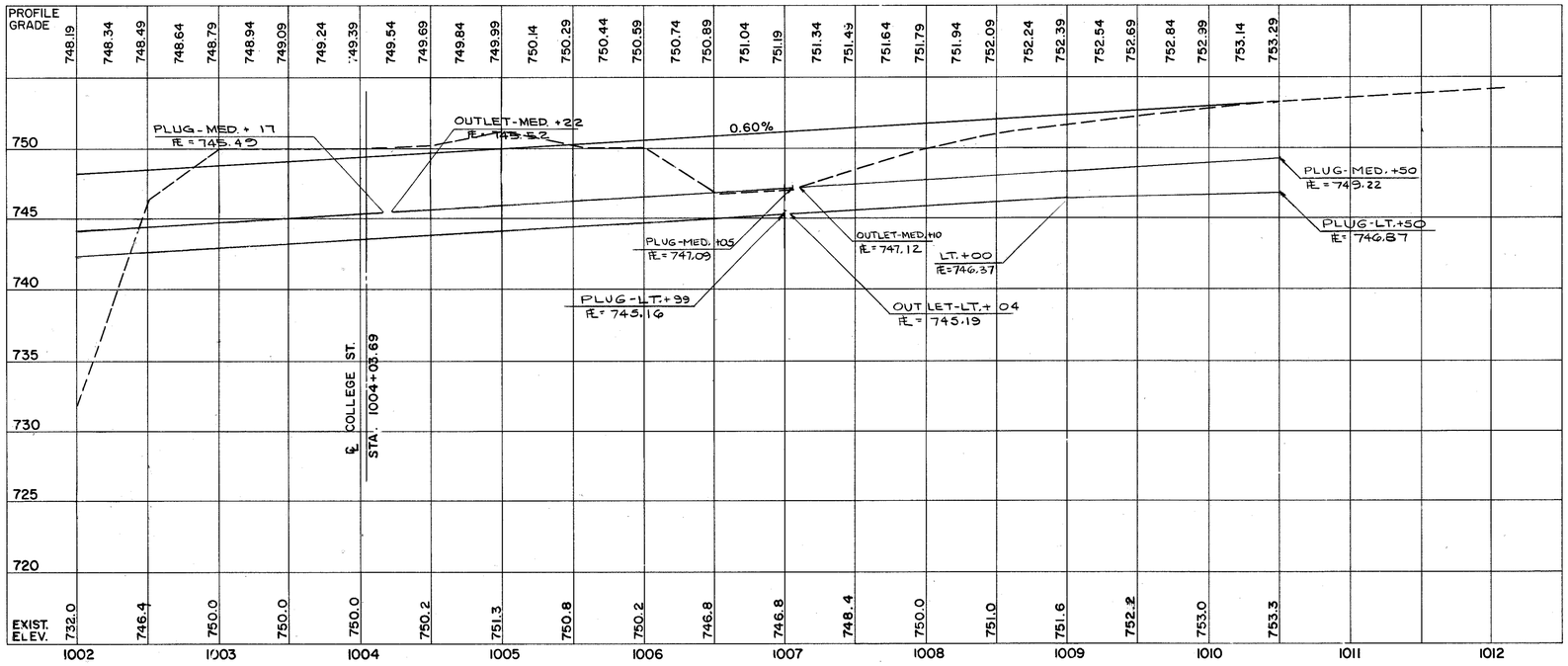


PROFILE
STA. 982+00 TO STA. 1002+00

FHWA REGION	STATE	PROJECT	
5	OHIO		

98
362

COL-30-35.29



PROFILE
STA. 1002+00 TO STA. 1010+50

FHWA REGION	STATE	PROJECT	
5	OHIO		

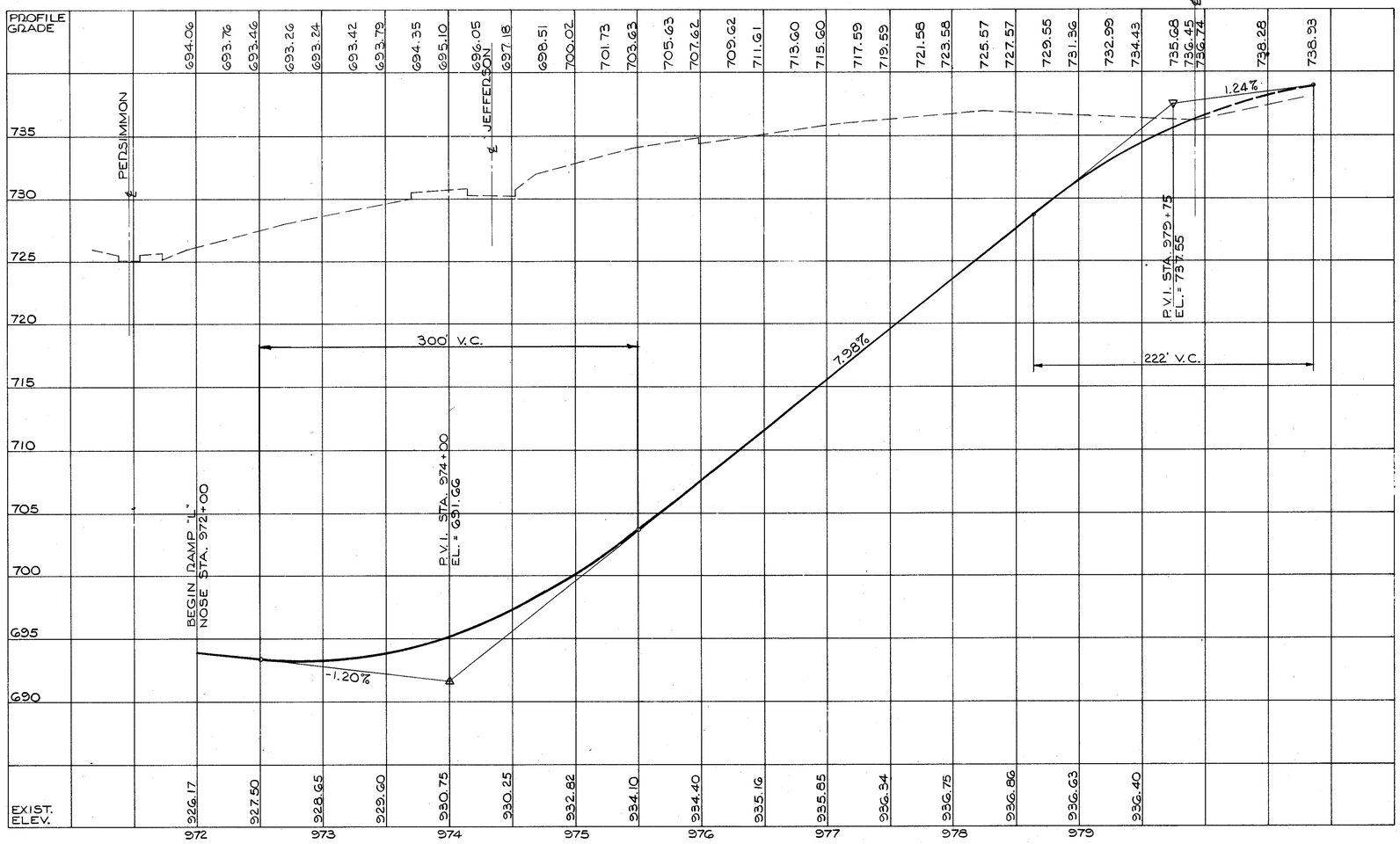
99
362

COL-30-35.29

END RAMP "L" PROFILE
STA. 979+92.69

BEGIN THIRD ST. PROFILE
STA. 10+00

FOR THIRD ST. PROFILE
SEE SHEET Nº 101

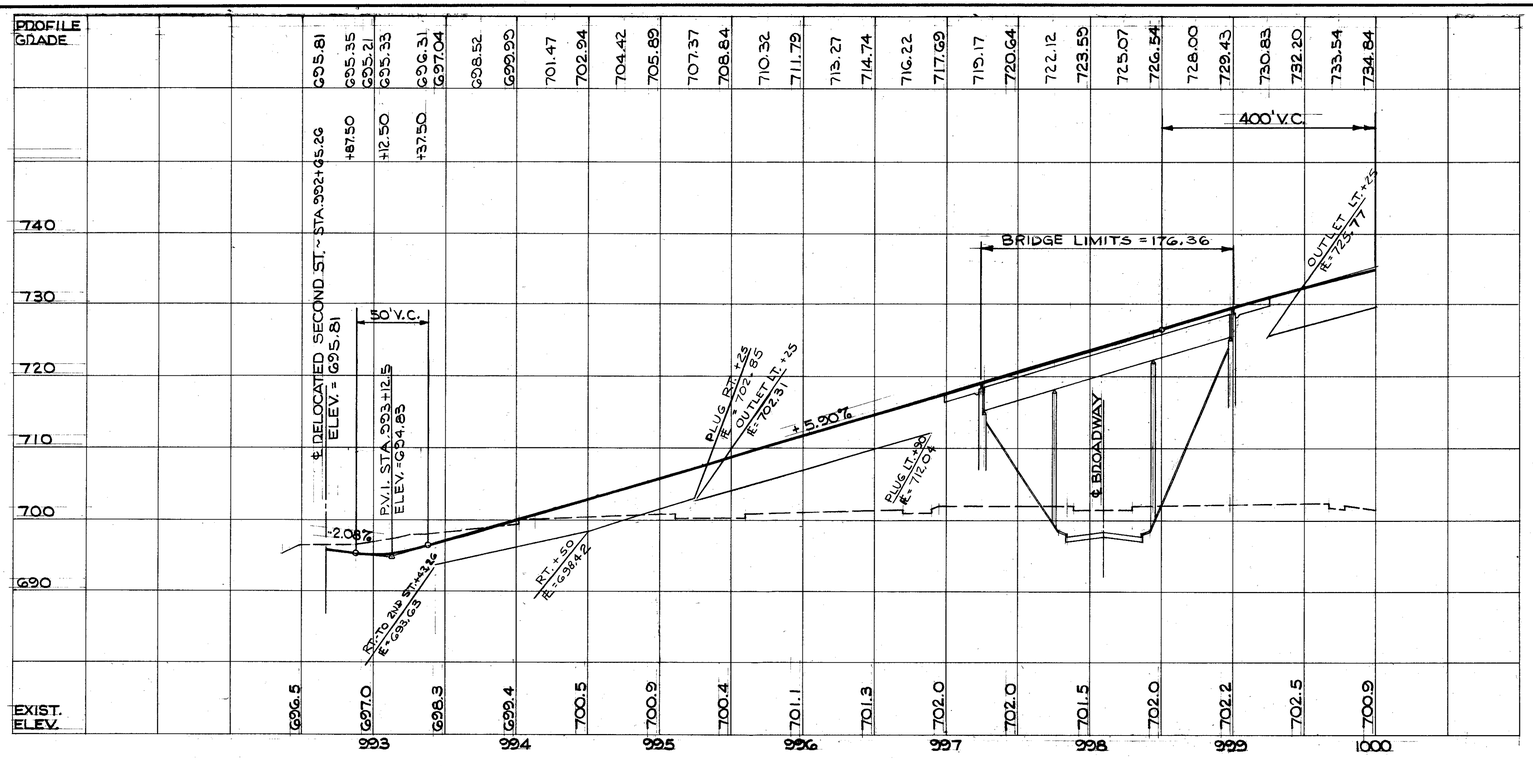


PROFILE RAMP `L´
STA.972+00 TO STA.979+00

FHWA REGION	STATE	PROJECT	
5	OHIO		

100
362

COL-30-35.29

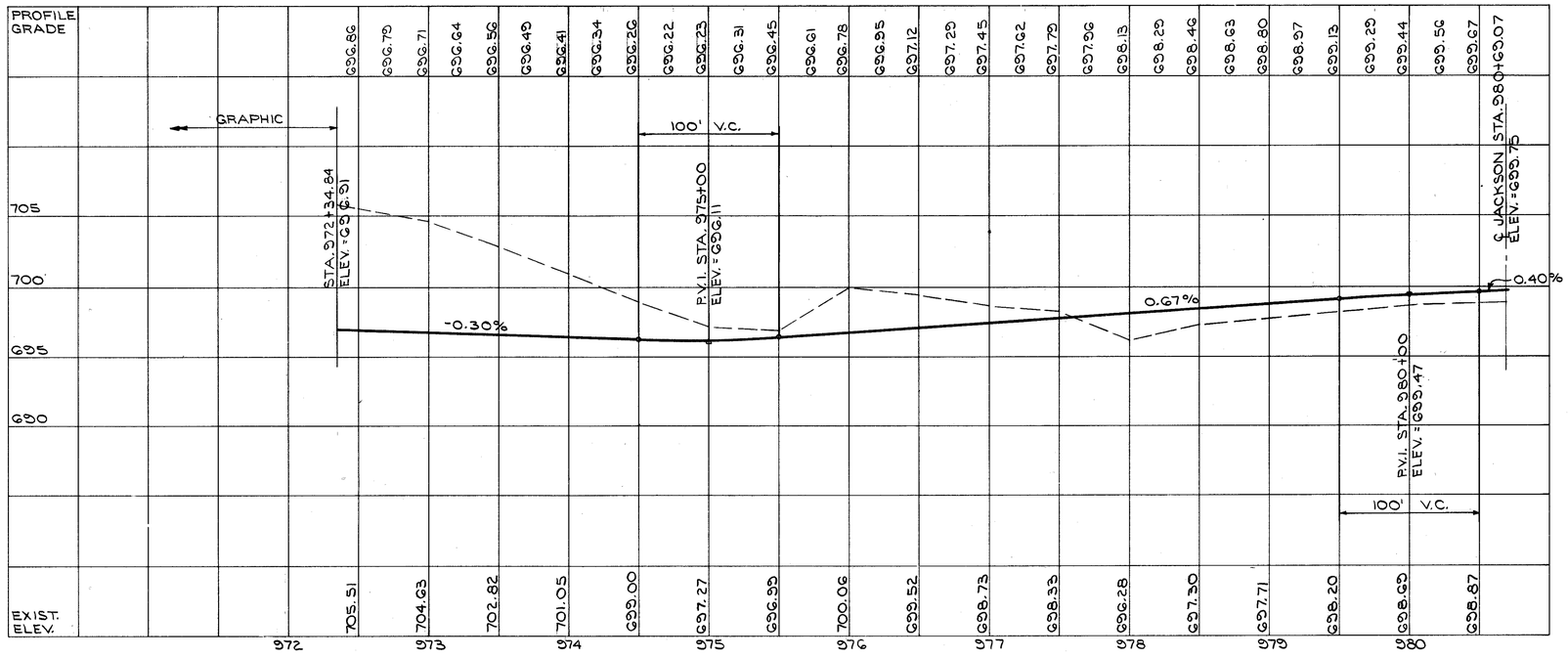


PROFILE RAMP 'M'
STA. 992+65.26 TO STA. 1007+00

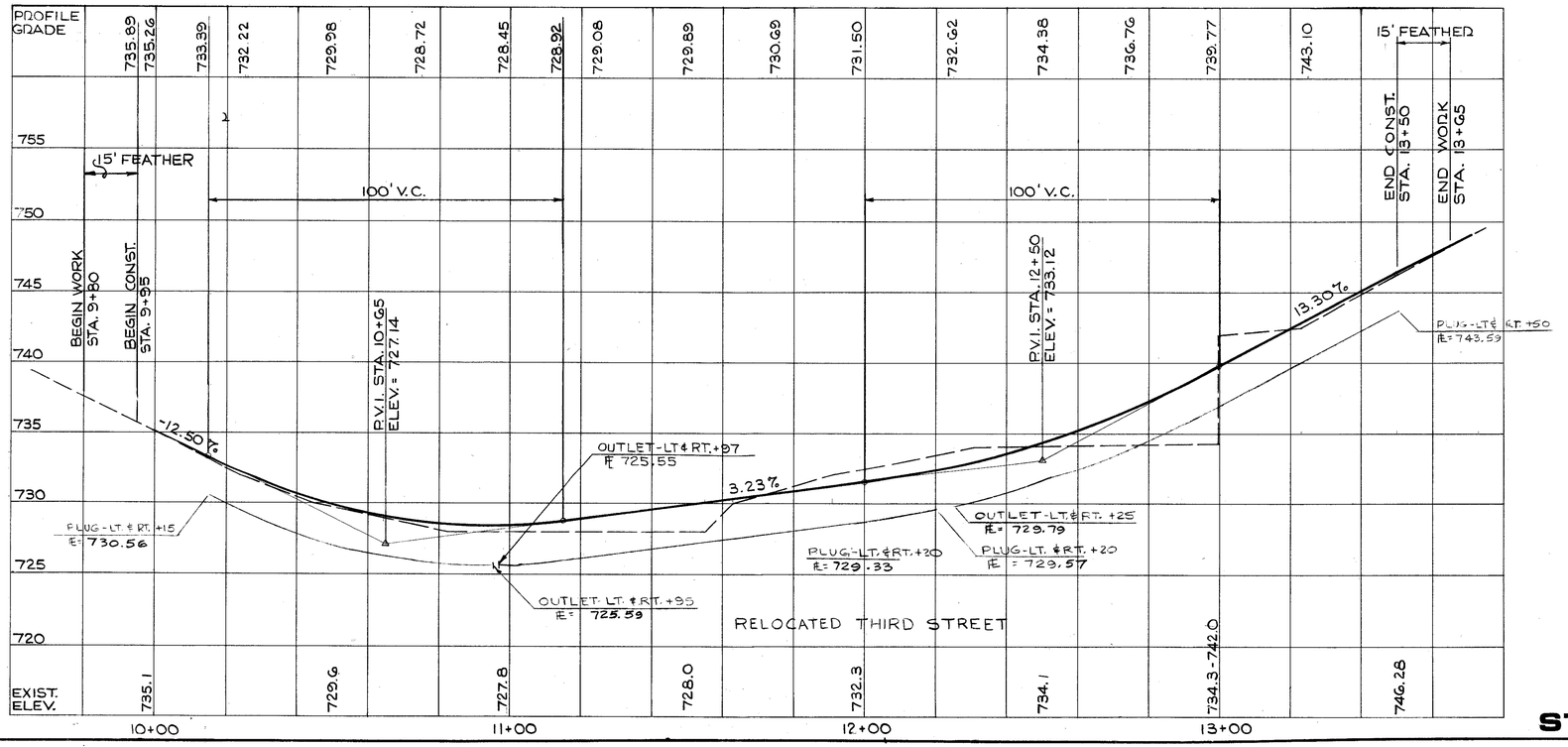
FHWA REGION	STATE	PROJECT	
5	OHIO		

COL - 30 - 35.29

101
362



RAMP "N"



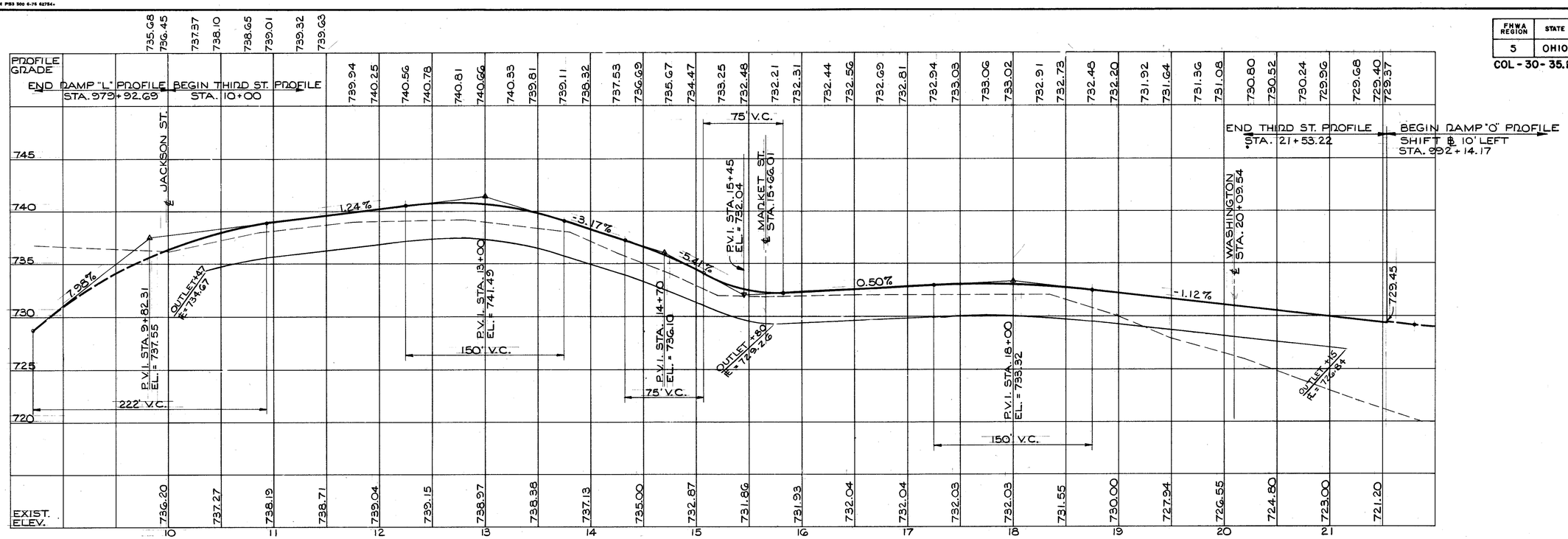
PROFILE
RELOCATED THIRD STREET
STA. 9+95 TO STA. 13+50
PROFILE RAMP 'N'
STA. 972+34.84 TO STA. 980+69.07

PRM PS3 300 6-75 62784

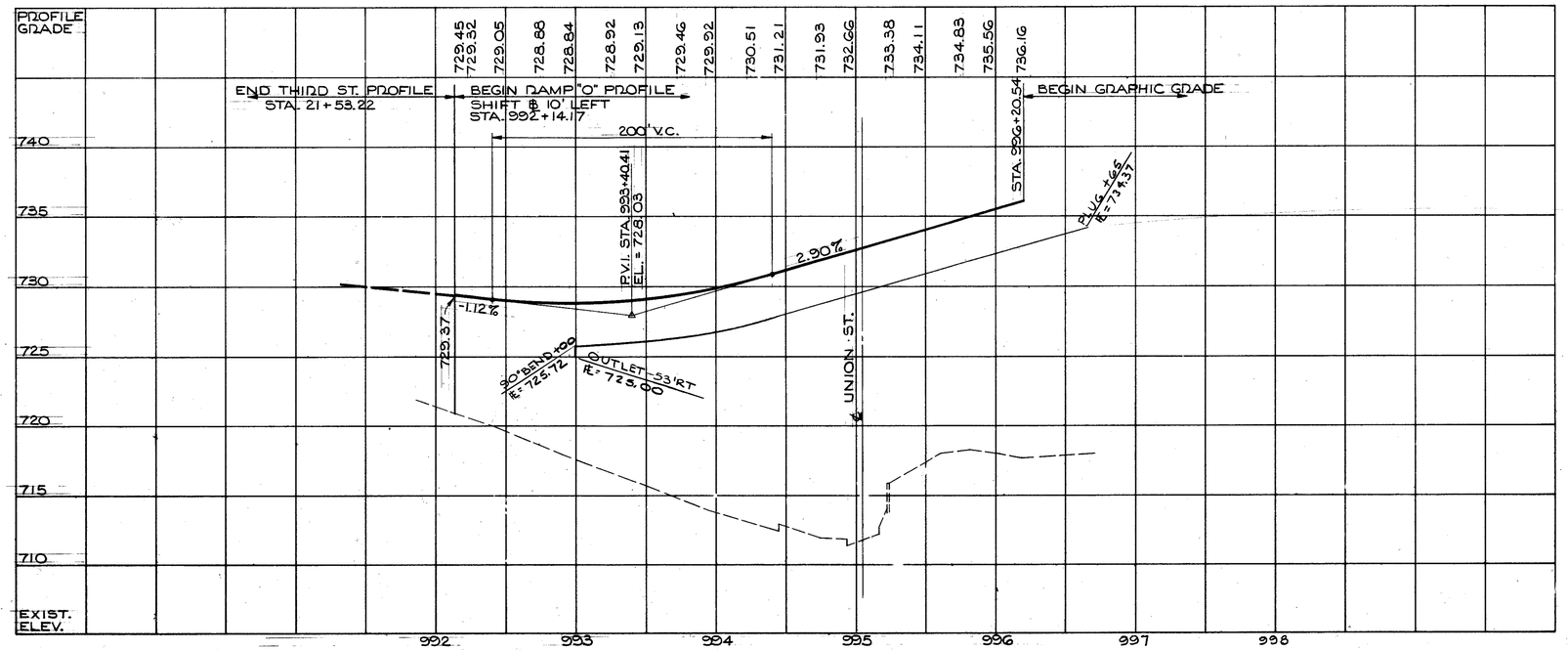
FHWA REGION	STATE	PROJECT	
5	OHIO		

COL - 30 - 35.29

102
362



EAST AND WEST THIRD STREET



RAMP "O"

STATION	ELEVATION
996 + 25.00	736.2858
996 + 50.00	737.0202
996 + 75.00	737.7285
997 + 00.00	738.4107
997 + 25.00	739.0668
997 + 50.00	739.6970
997 + 75.00	740.3012
998 + 00.00	740.8794
998 + 25.00	741.4317
998 + 50.00	741.9582
998 + 75.00	742.4588
999 + 00.00	742.9336
999 + 25.00	743.3825
999 + 50.00	743.8057
999 + 75.00	744.2031
1000 + 00.00	744.5748
1000 + 25.00	744.9207
1000 + 50.00	745.2410
1000 + 75.00	745.5355
1001 + 00.00	745.8044
1001 + 25.00	746.0476
1001 + 50.00	746.2651
1001 + 75.00	746.4570
1002 + 00.00	746.6320
1002 + 25.00	746.8019
1002 + 50.00	746.9669
1002 + 75.00	747.1269
1003 + 00.00	747.2819

PROFILE THIRD STREET STA. 10+00 TO STA. 21+53.22 PROFILE RAMP 'O' 922+14.17 TO STA. 996+20.54

FHWA REGION	STATE	PROJECT	
5	OH10		

103
362

COL - 30 - 35.29

PROFILE SECOND STREET & RELOCATED SECOND STREET STA. 10+00 TO STA. 35+81.13

AA 8/P

CALC. BY DATE		OHIO	104
CHKD. BY DATE		FHWA REGION 5	362

COL-30-35:29

PROFILE GRADE	745.64	744.23	742.36	740.26	738.49	737.40	736.40	735.11	733.37	731.23	728.70	725.78	722.65	719.53	716.40	713.28	710.15	707.03	703.90	701.39	700.09	698.95	696.91	694.80	692.38
EXIST ELEV.	745.51	744.33	743.16	741.87	740.48	738.23		734.59	731.43	728.03	724.55	721.07	717.59	714.25	711.39	708.70	706.27	704.26	702.05	700.30	700.09	699.53	697.12	695.00	692.56

48+50 | 49+00 | 50+00 | 51+00 | 52+00 | 53+00 | 54+00

760 / 740 / 720 / 700 / 680

BEGIN WORK STA. 48+35

BEGIN CONST. STA. 48+50

15' FEATHER

50' V.C.

50' V.C.

150' V.C.

BRIDGE LIMITS = 180.5'

50' V.C.

50' V.C.

50' V.C.

MEET EXIST. STA. 54+61

-4.72%

-8.41%

-3.00%

-12.50%

-2.77%

-9.98%

-8.12%

PVI STA. 48+75
ELEV. 744.46

PVI STA. 49+50
ELEV. 738.15

℄ THIRD ST. STA. 50+00
ELEV. 736.87

PVI STA. 50+50
ELEV. 735.15

℄ U.S. 30

PVI STA. 53+25
ELEV. 700.78

℄ SECOND ST. STA. 53+41.98
ELEV. 700.16

PVI STA. 53+75
ELEV. 699.40

PVI STA. 54+25
ELEV. 694.41

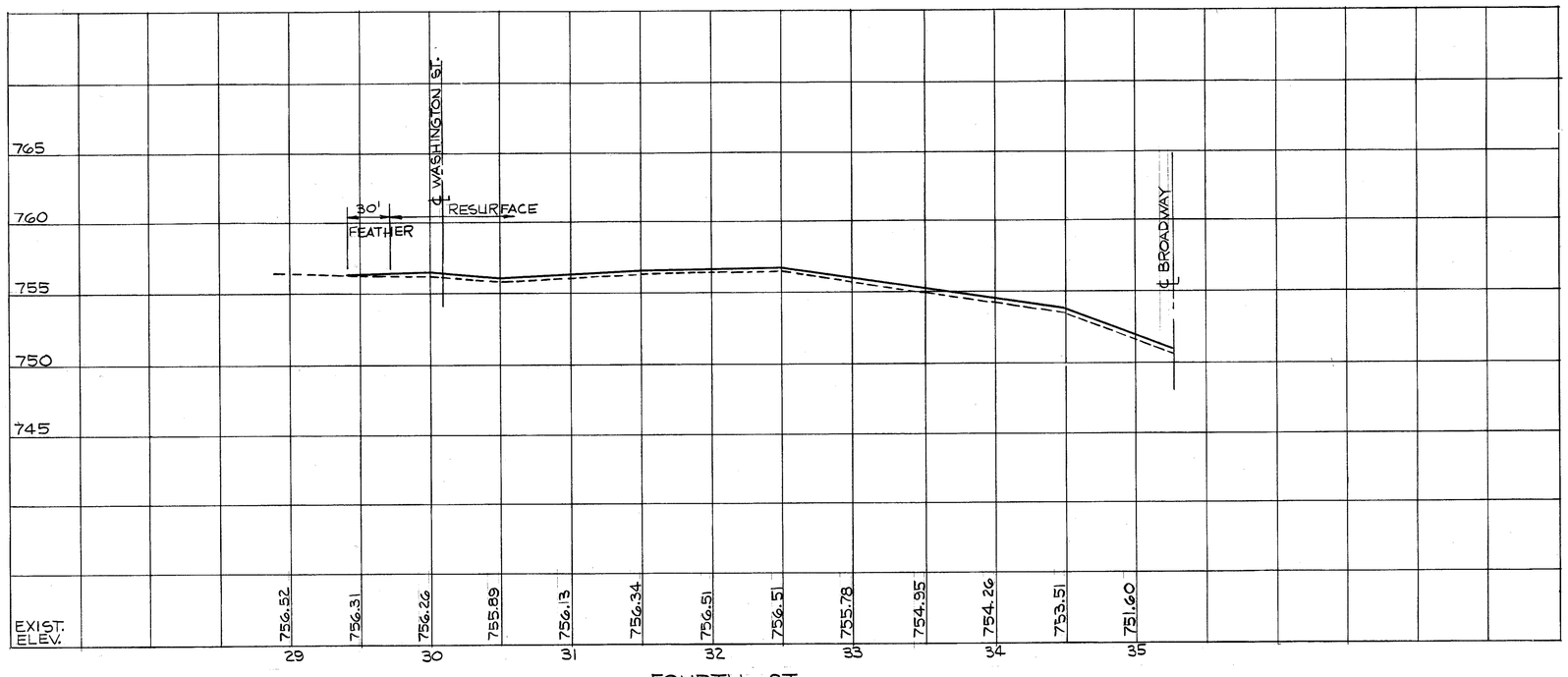
PROFILE JACKSON STREET
STA. 48+35 TO STA. 54+61

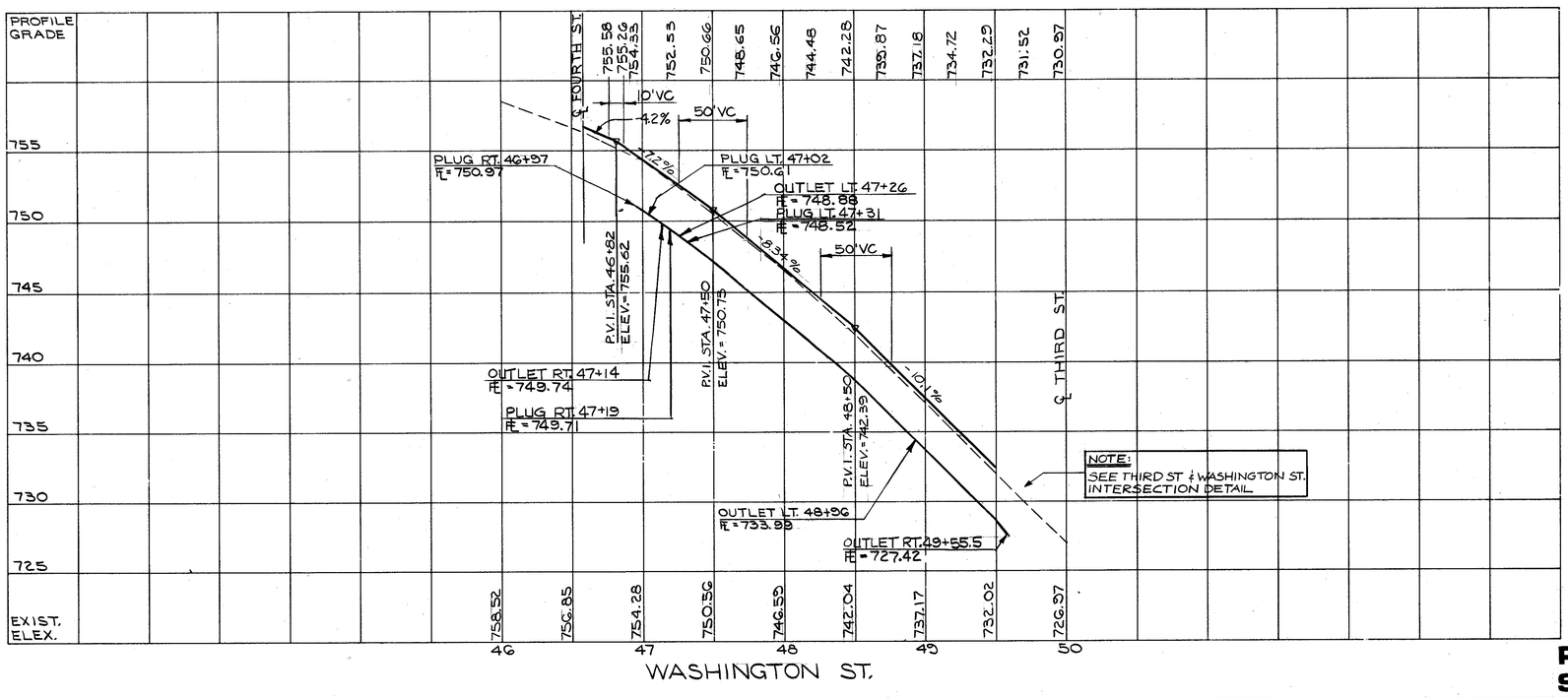
3720

FHWA REGION	STATE	PROJECT	
5	OHIO		

105/362

COL - 30 - 35.29





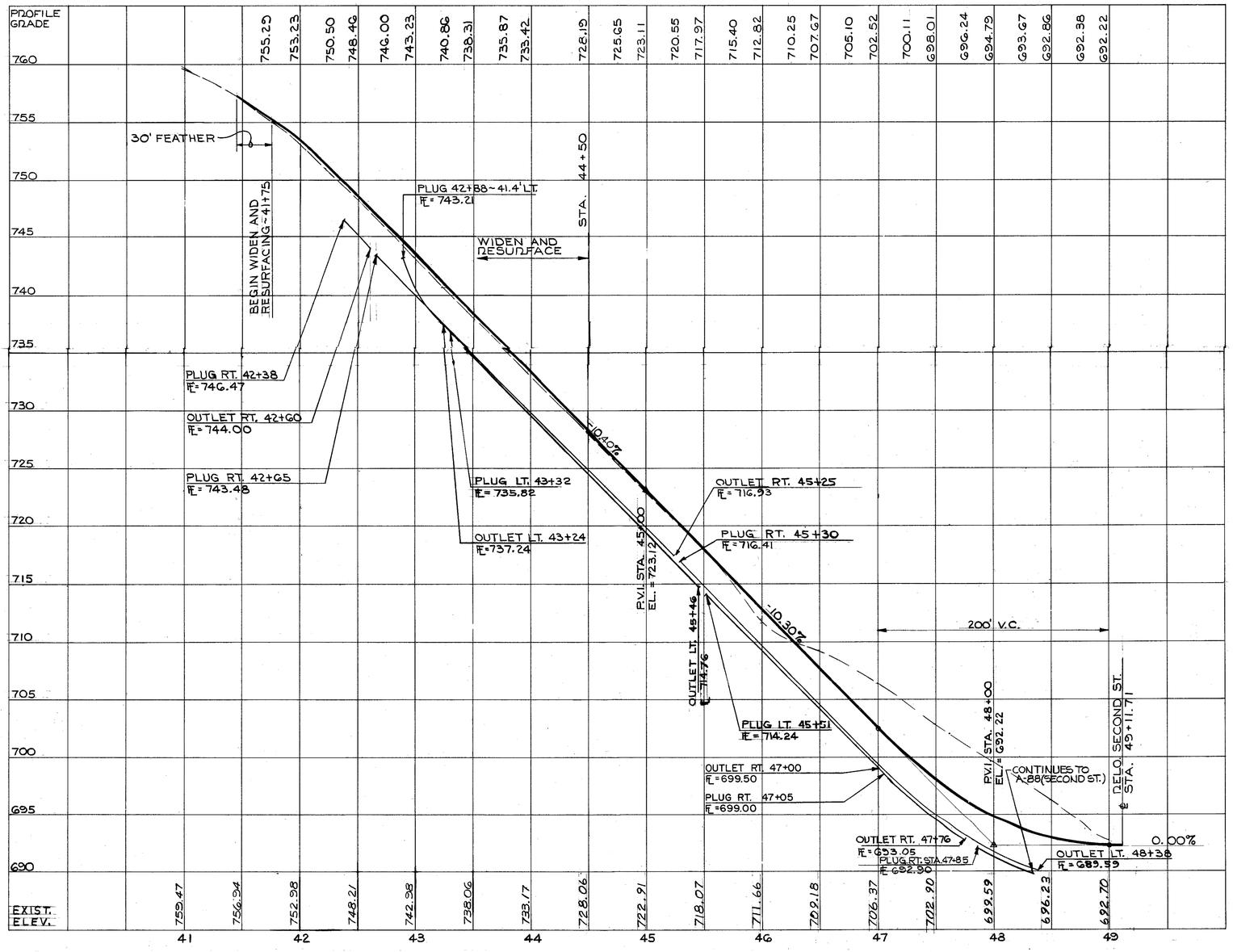
PROFILE FOURTH STREET
STA. 29+7158 TO STA. 35+27.85

PROFILE WASHINGTON STREET
STA. 46+76.96 TO STA. 54+12.50

FHWA REGION	STATE	PROJECT	
5	OHIO		

106
362

COL-30-35.29



PROFILE BROADWAY
STA. 41+75 TO STA. 49+11.71

AA B/Pe 73B6

SUPERELEVATION TABLES

CALC. BY LTF DATE 7-25-78
CHKD. BY LCK DATE 5-7-84

OHIO
FHWA REGION 5

107
362

COL-30-35.29

LEFT SHOULDER Elev.	LEFT SHOULDER Offset from Centerline	LEFT PAVEMENT Elev.	LEFT PAVEMENT Offset from Centerline	PROFILE GRADE Elev.	PROFILE GRADE Offset from Centerline	Sta.	PROFILE GRADE Offset from Centerline	PROFILE GRADE Elev.	RIGHT PAVEMENT Offset from Centerline	RIGHT PAVEMENT Elev.	RIGHT SHOULDER Offset from Centerline	RIGHT SHOULDER Elev.
		701.82	10.00'	702.27	2.00'	964+00	2.00'	702.27	10.00'	702.82		
		700.49	34.00'						34.00'	704.13		
700.10	47.00'	700.21	39.00'						46.00'	704.78	55.42'	704.63
		700.86	10.00'	701.13	2.00'	964+50	2.00'	701.13	10.00'	701.63		
		699.65	34.00'						34.00'	702.82		
699.17	48.25'	699.33	40.25'						46.00'	703.41	55.42'	703.22
		700.09	10.00'	700.18	2.00'	965+00	2.00'	700.18	10.00'	700.63		
		699.00	34.00'						34.00'	701.70		
698.46	49.50'	698.86	41.50'						46.00'	702.24	55.42'	702.00
		699.52	10.00'	699.44	2.00'	965+50	2.00'	699.44	10.00'	699.83		
		698.55	34.00'						34.00'	700.79		
697.96	50.75'	698.20	42.75'						46.00'	701.27	55.42'	700.99
		700.09	10.00'	700.18	2.00'	966+00	2.00'	698.89	10.00'	699.23		
		699.00	34.00'						34.00'	700.07		
698.46	49.50'	698.66	41.50'						46.00'	700.50	55.42'	700.17
		699.12	10.00'	698.84	2.00'	966+05.72	2.00'	698.84	10.00'	699.17		
		698.29	34.00'			SC			34.00'	700.01		
697.66	52.14'	697.94	44.14'						46.00'	700.42	55.42'	700.09
		698.82	10.00'	698.54	2.00'	966+50	2.00'	698.54	10.00'	698.87		
		697.99	34.00'						34.00'	699.71		
697.32	53.25'	697.60	45.25'						46.00'	700.12	55.42'	699.79
		698.57	10.00'	698.29	2.00'	967+00	2.00'	698.29	10.00'	698.62		
		697.74	34.00'						34.00'	699.46		
697.03	54.50'	697.31	46.50'						46.00'	699.87	54.00'	699.59
		698.32	10.00'	698.04	2.00'	967+50	2.00'	698.04	10.00'	698.37		
		697.49	34.00'						34.00'	699.21		
696.73	55.75'	697.01	47.75'						46.00'	699.62	54.00'	699.34
		698.07	10.00'	697.79	2.00'	968+00	2.00'	697.79	10.00'	698.12		
		697.24	34.00'						34.00'	698.96		
696.44	57.00'	696.72	49.00'						46.00'	699.37	54.00'	699.09
		697.82	10.00'	697.54	2.00'	968+50	2.00'	697.54	10.00'	697.87		
		696.99	34.00'						34.00'	698.71		
696.15	58.25'	696.43	50.25'						46.00'	698.88	54.00'	698.54
		697.57	10.00'	697.29	2.00'	969+00	2.00'	697.29	10.00'	697.62		
		696.74	34.00'						34.00'	698.46		
695.85	59.50'	696.13	51.50'						46.09'	698.49	54.09'	698.15
		697.32	10.00'	697.04	2.00'	969+50	2.00'	697.04	10.00'	697.37		
		696.49	34.00'						34.00'	698.21		
695.56	60.75'	695.84	52.75'						47.07'	698.24	55.07'	697.90
		697.07	10.00'	696.79	2.00'	970+00	2.00'	696.79	10.00'	697.12		
		696.24	34.00'						34.00'	697.96		
695.27	62.00'	695.55	54.00'						49.15'	697.99	57.15'	697.65
		696.82	10.00'	696.54	2.00'	970+50	2.00'	696.54	10.00'	696.87		
		695.99	34.00'						34.00'	697.71		
694.97	63.25'	695.25	55.25		NOTE: SEE GEOMETRIC PLAN RAMP "N" SHT. 205 FOR RAMP PAVEMENT ELEVATIONS							
		696.57	10.00'	696.29	2.00'	971+00	2.00'	696.29	10.00'	696.62		
		695.74	34.00'						34.00'	697.46		
694.68	64.50'	694.96	56.50'									
		696.32	10.00'	696.04	2.00'	971+50	2.00'	696.04	10.00'	696.37		
		695.49	34.00'						34.00'	697.21		
694.39	65.75'	694.67	57.75'									

LEFT SHOULDER Elev.	LEFT SHOULDER Offset from Centerline	LEFT PAVEMENT Elev.	LEFT PAVEMENT Offset from Centerline	PROFILE GRADE Elev.	PROFILE GRADE Offset from Centerline	Sta.	PROFILE GRADE Offset from Centerline	PROFILE GRADE Elev.	RIGHT PAVEMENT Offset from Centerline	RIGHT PAVEMENT Elev.	RIGHT SHOULDER Offset from Centerline	RIGHT SHOULDER Elev.
		696.07	10.00'	695.79	2.00'	972+00	2.00'	695.79	10.00'	696.12		
		695.24	34.00'						34.00'	696.96		
		694.81	43.00'									
693.68	67.00'	694.06	59.00'									
		695.82	10.00'	695.54	2.00'	972+50	2.00'	695.54	10.00'	695.87		
694.21	44.85'	694.99	34.00'		NOTE: SEE GEOMETRIC PLAN RAMP "L" SHT. 202 FOR RAMP PAVEMENT ELEVATION				34.00'	696.71	42.00'	696.43
		695.57	10.00'	695.29	2.00'	973+00	2.00'	695.29	10.00'	695.62		
693.98	47.97'	694.74	34.00'						34.00'	696.46	42.00'	696.18
		695.32	10.00'	695.04	2.00'	973+50	2.00'	695.04	10.00'	695.37		
694.27	40.00'	694.49	34.00'						34.00'	696.21	42.00'	695.93
694.44	49.36'											
694.51	52.36'											
		695.19	10.00'	694.91	2.00'	973+78	2.00'	694.91	10.00'	695.23		
694.07	42.00'	694.35	34.00'						34.00'	696.07	42.00'	695.79
695.02	52.00'											
		695.07	10.00'	694.79	2.00'	974+00	2.00'	694.79	10.00'	695.12		
693.96	42.00'	694.24	34.00'						34.00'	695.96	42.00'	695.68
		694.82	10.00'	694.54	2.00'	974+50	2.00'	694.54	10.00'	694.87		
693.71	42.00'	693.99	34.00'						34.00'	695.71	42.00'	695.43
		694.57	10.00'	694.29	2.00'	975+00	2.00'	694.29	10.00'	694.62		
693.46	42.00'	693.74	34.00'						34.00'	695.46	42.00'	695.18
		694.32	10.00'	694.04	2.00'	975+50	2.00'	694.04	10.00'	694.37		
693.21	42.00'	693.49	34.00'						34.00'	695.21	42.00'	694.93
		694.07	10.00'	693.79	2.00'	976+00	2.00'	693.79	10.00'	794.12		
692.96	42.00'	693.24	34.00'						34.00'	694.96	42.00'	694.68
		693.82	10.00'	693.54	2.00'	976+50	2.00'	693.54	10.00'	693.87		
692.71	42.00'	692.99	34.00'						34.00'	694.71	42.00'	694.43
		693.57	10.00'	693.29	2.00'	977+00	2.00'	693.29	10.00'	693.62		
692.46	42.00'	692.74	34.00'						34.00'	694.46	42.00'	694.18
		693.32	10.00'	693.04	2.00'	977+50	2.00'	693.04	10.00'	693.37		
692.21	42.00'	692.49	34.00'						34.00'	694.21	42.00'	693.93
		693.08	10.00'	692.79	2.00'	978+00	2.00'	692.79	10.00'	693.12		
692.00	42.00'	692.30	34.00'						34.00'	693.90	42.00'	693.60
		692.99	10.00'	692.68	2.00'	978+30.67	2.00'	692.68	10.00'	693.01		
691.95	42.00'	692.28	34.00'			PCC			34.00'	693.72	42.00'	693.39
		692.97	10.00'	692.65	2.00'	978+50	2.00'	692.65	10.00'	692.98		
691.98	42.00'	692.31	34.00'						34.00'	693.64	42.00'	693.31
		693.06	10.00'	692.73	2.00'	979+00	2.00'	692.73	10.00'	693.06		
692.15	42.00'	692.48	34.00'						34.00'	693.64	42.00'	693.31
		693.36	10.00'	693.02	2.00'	979+50	2.00'	693.02	10.00'	693.36		
692.45	42.00'	692.78	34.00'						34.00'	693.93	42.00'	693.60
		693.87	10.00'	693.54	2.00'	980+00	2.00'	693.54	10.00'	693.87		
692.97	42.00'	693.30	34.00'						34.00'	694.45	42.00'	694.12
		694.61	10.00'	694.27	2.00'	980+50	2.00'	694.27	10.00'	694.61		
693.70	42.00'	694.03	34.00'						34.00'	695.18	42.00'	694.85

AA B/Pe 7320Z

SUPERELEVATION TABLES

CALC. BY L.T.P. DATE 7-23-76
CHKD. BY LGK DATE 7-23-76

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LEFT PAVEMENT								RIGHT PAVEMENT							
SHOULDER		PAVEMENT		PROFILE GRADE		STA.	PROFILE GRADE		PAVEMENT		SHOULDER	
	OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE	
ELEV.		ELEV.		ELEV.				ELEV.		ELEV.		ELEV.	
		695.56	10.00′	695.23	2.00′	981+00	2.00′	695.23	10.00′	695.56		
694.65	42.00′	694.98	34.00′						34.00′	696.14	42.00′	695.81
		696.73	10.00′	696.40	2.00′	981+50	2.00′	696.40	10.00′	696.73		
695.83	42.00′	696.16	34.00′						34.00′	697.31	42.00′	696.98
		698.12	10.00′	697.79	2.00′	982+00	2.00′	697.79	10.00′	698.12		
		697.55	34.00′						34.00′	698.70	42.00′	698.37
697.19	43.00′	697.52	35.00′									
		699.62	10.00′	699.29	2.00′	982+50	2.00′	699.29	10.00′	699.62		
		699.05	34.00′						34.00′	700.20	42.00′	699.87
698.77	44.00′	699.00	36.00′									
		701.12	10.00′	700.79	2.00′	983+00	2.00′	700.79	10.00′	701.12		
		700.55	34.00′						34.00′	701.70	42.00′	701.37
700.15	45.00′	700.48	37.00′									
		702.62	10.00′	702.29	2.00′	983+50	2.00′	702.29	10.00′	702.62		
		702.05	34.00′						34.00′	703.20	42.00′	702.87
701.62	46.00′	701.95	38.00′									
		704.12	10.00′	703.79	2.00′	984+00	2.00′	703.79	10.00′	704.12		
		703.55	34.00′						34.00′	704.70	42.00′	704.37
703.10	47.00′	703.43	39.00′									
		705.62	10.00′	705.29	2.00′	984+50	2.00′	705.29	10.00′	705.62		
		705.05	34.00′						34.00′	706.20	42.00′	705.87
704.57	48.00′	704.90	40.00′									
		707.12	10.00′	706.79	2.00′	985+00	2.00′	706.79	10.00′	707.12		
		706.55	34.00′						34.00′	707.70	42.00′	707.37
706.05	49.00′	706.38	41.00′									
		708.62	10.00′	708.29	2.00′	985+50	2.00′	708.29	10.00′	708.62		
		708.05	34.00′						34.00′	709.20	42.00′	708.87
707.53	50.00′	707.86	42.00′									
		710.12	10.00′	709.79	2.00′	986+00	2.00′	709.79	10.00′	710.12		
		709.55	34.00′						34.00′	710.70	42.00′	710.37
709.00	51.00′	709.33	43.00′									
		711.62	10.00′	711.29	2.00′	986+50	2.00′	711.29	10.00′	711.62		
		711.05	34.00′						34.00′	712.20	42.00′	711.87
710.48	52.00′	710.81	44.00′									
		713.12	10.00′	712.79	2.00′	987+00	2.00′	712.79	10.00′	713.12		
		712.55	34.00′						34.00′	713.70	42.00′	713.37
711.95	53.00′	712.28	45.00′									
		714.62	10.00′	714.29	2.00′	987+50	2.00′	714.29	10.00′	714.62		
		714.05	34.00′						34.00′	715.20	42.00′	714.87
713.43	54.00′	713.76	46.00′									
		716.12	10.00′	715.79	2.00′	988+00	2.00′	715.79	10.00′	716.12		
		715.55	34.00′						34.00′	716.70	42.00′	716.37
714.93	54.00′	715.26	46.00′									
		717.62	10.00′	717.29	2.00′	988+50	2.00′	717.29	10.00′	717.62		
		717.05	34.00′						34.00′	718.20	42.00′	717.87
716.43	54.00′	716.76	46.00′									
		719.12	10.00′	718.78	2.00′	989+00	2.00′	718.79	10.00′	719.12		
		718.55	34.00′						34.00′	717.70	42.00′	719.37
717.93	54.00′	718.26	46.00′									
		720.62	10.00′	720.29	2.00′	989+50	2.00′	720.29	10.00′	720.62		
		720.05	34.00′						34.00′	721.20	42.00′	720.87
719.43	54.00′	719.76	46.00′									

LEFT PAVEMENT								RIGHT PAVEMENT							
SHOULDER		PAVEMENT		PROFILE GRADE		STA.	PROFILE GRADE		PAVEMENT		SHOULDER	
	OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE	
ELEV.		ELEV.		ELEV.				ELEV.		ELEV.		ELEV.	
		722.12	10.00′	721.79	2.00′	990+00	2.00′	721.79	10.00′	722.12		
		721.55	34.00′						34.00′	722.70	42.00′	722.37
720.93	54.00′	721.26	46.00′									
		723.62	10.00′	723.29	2.00′	990+50	2.00	723.29	10.00′	723.62		
		723.05	34.00′						34.00′	724.20	42.00′	723.87
722.43	54.00′	722.76	46.00′									
		725.12	10.00′	724.79	2.00′	991+00	2.00′	724.79	10.00′	725.12		
		724.55	34.00′						34.00′	725.70	42.00′	725.37
723.93	54.00′	724.26	46.00′									
		726.62	10.00′	726.29	2.00′	991+50	2.00′	726.29	10.00′	726.62		
		726.05	34.00′						34.00′	727.20	42.00′	726.87
725.43	54.00′	725.76	46.00′									
		727.31	10.00′	726.98	2.00′	991+73.04 CS	2.00′	726.98	10.00′	727.31		
		726.74	34.00′						34.00′	727.89	42.00′	727.56
726.12	54.00′	726.45	46.00′									
		728.10	10.00′	727.79	2.00′	992+00	2.00′	727.79	10.00′	728.12		
		727.45	34.00′						34.00′	728.78	42.00′	728.45
726.80	54.00′	727.13	46.00′									
		729.57	10.00′	729.29	2.00′	992+50	2.00′	729.29	10.00′	729.62		
		728.78	34.00′						34.00′	730.43	42.00′	730.14
728.12	54.00′	728.38	46.00′									
		731.03	10.00′	730.79	2.00′	993+00	2.00′	730.79	10.00′	731.12		
		730.10	34.00′						34.00′	732.08	42.00′	731.84
729.39	54.00′	729.64	46.00′									
		732.49	10.00′	732.29	2.00′	993+50	2.00′	732.29	10.00′	732.65		
		731.43	34.00′						34.00′	733.73	42.00′	733.53
730.68	54.00′	730.89	46.00′									
		733.17	10.00′	732.98	2.00′	993+73.04 SC	2.00′	732.98	10.00′	733.36		
		732.04	34.00′						34.00′	734.49	42.00′	734.31
731.29	54.00′	731.47	46.00′									
		733.97	10.00′	733.79	2.00′	994+00	2.00′	733.79	10.00′	734.17		
		732.85	34.00′						34.00′	735.29	42.00′	735.11
732.10	54.00′	732.28	46.00′									
		735.46	10.00′	735.28	2.00′	994+50	2.00′	735.28	10.00′	735.66		
		734.34	34.00′						34.00′	736.78	42.00′	736.60
733.59	54.00′	733.77	46.00′									
		736.88	10.00′	736.70	2.00′	995+00	2.00′	736.70	10.00′	737.08		
		735.76	34.00′						34.00′	738.20	42.00′	738.02
735.01	54.00′	735.19	46.00′									
		738.22	10.00′	738.04	2.00′	995+50	2.00′	738.04	10.00′	738.42		
		737.10	34.00′						34.00′	739.54	42.00′	739.36
736.35	54.00′	736.53	46.00′									
		739.48	10.00′	739.30	2.00′	996+00	2.00′	739.30	10.00′	739.68		
		738.36	34.00′						34.00′	740.80	42.00′	740.62
737.61	54.00′	737.79	46.00′									
		740.66	10.00′	740.48	2.00′	996+50	2.00′	740.48	10.00′	740.86		
		739.54	34.00′						34.00′	741.98	42.00′	741.80
738.97	46.00′											
737.18	88.33′	737.36	80.33′									

NOTE: SEE GEOMETRIC PLAN RAMP "O" SHT. 206 FOR RAMP PAVEMENT ELEVATIONS

AA W/Pw 76302

SUPERELEVATION TABLES

CALC. BY L.T.F. DATE 3-7-78
CHKD. BY LCK DATE 3-7-78

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LEFT PAVEMENT								RIGHT PAVEMENT							
SHOULDER		PAVEMENT		PROFILE GRADE		STA.	PROFILE GRADE		PAVEMENT		SHOULDER				
ELEV.	OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE	ELEV.			
		741.76	10.00'	741.58	2.00'	997+00	2.00'	741.58	10.00'	741.96					
		740.64	34.00'						34.00'	743.08	42.00'	742.90			
		740.07	46.00'												
738.52	83.29'	738.70	75.29'												
		742.78	10.00'	742.60	2.00'	997+50	2.00'	742.60	10.00'	742.98					
		741.66	34.00'						34.00'	744.10	42.00'	743.92			
		741.09	46.00'												
739.75	78.64'	739.93	70.64'												
		743.72	10.00'	743.54	2.00'	998+00	2.00'	743.54	10.00'	743.92					
		742.60	34.00'						34.00'	745.04	42.00'	744.86			
		742.03	46.00'												
740.89	74.39'	741.07	66.39'												
		744.58	10.00'	744.40	2.00'	998+50	2.00'	744.40	10.00'	744.78					
		743.46	34.00'						34.00'	745.90	42.00'	745.72			
		742.89	46.00'												
741.94	70.53'	742.12	62.53'												
		745.36	10.00'	745.18	2.00'	999+00	2.00'	745.18	10.00'	745.56					
		744.24	34.00'						34.00'	746.68	42.00'	746.50			
		743.67	46.00'												
742.88	67.08'	743.06	59.08'												
		746.06	10.00'	745.88	2.00'	999+50	2.00'	745.88	10.00'	746.26					
		744.94	34.00'						34.00'	747.38	42.00'	747.20			
		744.37	46.00'												
743.72	64.02'	743.90	56.02'												
		746.68	10.00'	746.50	2.00'	1000+00	2.00'	746.50	10.00'	746.88					
		745.56	34.00'						34.00'	748.00	42.00'	748.36			
		744.99	46.00'												
744.47	61.37'	744.65	53.37'												
		747.22	10.00'	747.04	2.00'	1000+50	2.00'	747.04	10.00'	747.42					
		746.10	34.00'						34.00'	748.54					
		745.53	46.00'												
745.11	59.13'	745.29	51.13'												
		747.68	10.00'	747.50	2.00'	1001+00	2.00'	747.50	10.00'	747.88					
		746.56	34.00'						34.00'	749.00	42.00'	748.82			
		745.99	46.00'												
745.56	57.29'	745.84	49.29'												
		748.06	10.00'	747.88	2.00'	1001+50	2.00'	747.88	10.00'	748.26					
		746.94	34.00'						34.00'	749.38	42.00'	749.20			
		746.37	46.00'												
746.10	55.85'	746.28	47.85'												
		748.37	10.00'	748.19	2.00'	1002+00	2.00'	748.19	10.00'	748.57					
		747.25	34.00'						34.00'	749.69	42.00'	749.51			
		746.68	46.00'												
746.46	54.83'	746.64	46.83'												
		748.67	10.00'	748.49	2.00'	1002+50	2.00'	748.49	10.00'	748.87					
		747.55	34.00'						34.00'	749.99	42.00'	749.81			
		746.98	46.00'												
746.79	54.21'	746.97	46.21'												
		748.97	10.00'	748.79	2.00'	1003+00	2.00'	748.79	10.00'	749.17					
		747.85	34.00'						34.00'	750.29	42.00'	750.11			
747.10	54.00'	747.28	46.00'												
		749.27	10.00'	749.09	2.00'	1003+50	2.00'	749.09	10.00'	749.47					
		748.15	34.00'						34.00'	750.59	42.00'	750.41			
747.40	54.00'	747.58	46.00'												

LEFT PAVEMENT								RIGHT PAVEMENT							
SHOULDER		PAVEMENT		PROFILE GRADE		STA.	PROFILE GRADE		PAVEMENT		SHOULDER				
ELEV.	OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE		OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE	ELEV.	OFFSET FROM CENTERLINE	ELEV.			
		749.57	10.00'	749.39	2.00'	1004+00	2.00'	749.39	10.00'	749.77					
		748.45	34.00'						34.00'	750.89	42.00'	750.71			
747.70	54.00'	747.88	46.00'												
		749.87	10.00'	749.69	2.00'	1004+50	2.00'	749.69	10.00'	750.07					
		748.75	34.00'						34.00'	751.19					
748.00	54.00'	748.18	46.00'		NOTE: SEE GEOMETRIC PLAN RAMP "M" SHT. 203&204 FOR PAVEMENT ELEVATIONS										
		750.17	10.00'	749.99	2.00'	1005+00	2.00'	749.99	10.00'	750.37					
		749.05	34.00'						34.00'	751.79					
748.30	54.00'	748.48	46.00'												
		750.47	10.00'	750.29	2.00'	1005+50	2.00'	750.29	10.00'	750.67					
		749.35	34.00'												
748.60	54.00'	748.78	46.00'						34.00'	751.79					
		750.77	10.00'	750.59	2.00'	1006+00	2.00'	750.59	10.00'	750.97					
		749.65	34.00'						34.00'	752.09					
748.90	54.00'	749.08	46.00'												
		751.07	10.00'	750.89	2.00'	1006+50	2.00'	750.89	10.00'	751.27					
		749.95	34.00'						34.00'	752.39					
749.20	54.00'	749.38	46.00'												
		751.37	10.00'	751.19	2.00'	1007+00	2.00'	751.19	10.00'	751.57					
		750.25	34.00'						34.00'	752.69					
749.50	54.00'	749.68	46.00'												
		751.67	10.00'	751.49	2.00'	1007+50	2.00'	751.49	10.00'	751.87					
		750.55	34.00'						34.00'	752.99					
749.80	54.00'	749.98	46.00'						57.75'	754.11	67.75'	753.91			
		751.97	10.00'	751.79	2.00'	1008+00	2.00'	751.79	10.00'	752.17					
		750.85	34.00'						34.00'	753.29					
750.10	54.00'	750.28	46.00'						56.50'	754.35	66.50'	754.16			
		752.27	10.00'	752.09	2.00'	1008+50	2.00'	752.09	10.00'	752.47					
		751.15	34.00'						34.00'	753.59					
750.40	54.00'	750.58	46.00'						55.25'	754.59	65.25'	754.40			
		752.27	10.00'	752.39	2.00'	1009+00	2.00'	752.39	10.00'	752.77					
		751.45	34.00'						34.00'	753.89					
750.70	54.00'	750.88	46.00'						54.00'	754.83	64.00'	754.64			
		752.86	10.00'	752.69	2.00'	1009+50	2.00'	752.69	10.00'	753.09					
		751.65	34.00'						34.00'	754.30					
750.86	54.00'	751.04	46.00'						52.75'	755.25	62.75'	755.06			
		753.05	10.00'	752.89	2.00'	1009+83.50 PCC	2.00'	752.89	10.00'	753.32					
		751.77	34.00'						34.00'	754.59					
750.96	54.00'	751.14	46.00'						51.91'	755.54	61.91'	755.35			
		753.14	10.00'	752.99	2.00'	1010+00	2.00'	752.99	10.00'	753.42					
		751.84	34.00'						34.00'	754.73					
751.00	54.00'	751.18	46.00'						51.50'	755.68	61.50'	755.50			
		753.42	10.00'	753.29	2.00'	1010+50	2.00'	753.29	10.00'	753.76					
		752.02	34.00'						34.00'	755.15					
751.14	54.00'	751.32	46.00'						50.25'	756.10	60.25'	755.93			

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO	U-457 (14)	

COL-30-35.29

110
362

BEGIN PROJECT
STA 963+50
SLM - 35.29
F-1(1106)
B & Nº 1

N

NEWELL BRIDGE

STREET

FOURTH STREET

STREET

MONROE

ALLEY

STREET

CHURCH

STREET

ALLEY

STREET

ALLEY

LA

R/W

LA

R/W

LA

LA

LA

LA

LA

LA

P.C.C. STA. 966+05

PROP. RETAINING WALL

PROP. RETAINING WALL

JEFFERSON

ALLEY

WEST

ALLEY

THIRD

STREET

ALLEY

RAMP "L"

P.C.C. STA. 978+30.67

℄ SURVEY B NO.1

WEST

OHIO

PENN.

RAMP "N"

R/W

LA

W. FIRST ST.

LA

WEST

SECOND

STREET

PROP. RETAINING WALL

RIVER

JACKSON

CENTRAL

PINK

ALLEY

MARKET

WASHINGTON

MATCH LINE STA. 990+00

SCALE IN FEET

0 100 200 300

GRADING PLAN

STA. 963+50 TO STA. 990+00

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL - 30 - 35.29

111
362

END PROJECT
STA. 1010+50 B Nº 1
SLM 36.18
F-1(106)

N

MATCH LINE STA. 990+00

W. FOURTH ST.

EAST FOURTH ST.

CHURCH ALLEY

ALLEY

STREET

BROADWAY

APPLE

HIGH ALLEY

GROVE

ALLEY

WALNUT

COLLEGE

SUGAR

ELM ST.

L A

R/W

RAMP "O"

C.S. STA. 991+75.0

C.S. STA. 993+13.0

℄ SURVEY ℄ NO. 1

P.C.C. STA. 1009+23.50

NOSE STA. STA. 1007+00 - 33' RT. @ 30°59' FROM "M"
1007+00 - 16' LT. @ RAMP "M"

W. SECOND STREET

RELOCATED

SECOND ST.

RAMP "M"

RIVER ROAD

PINK

ALLEY

UNION

PENN.

CENTRAL

SCALE IN FEET
0 100 200 300

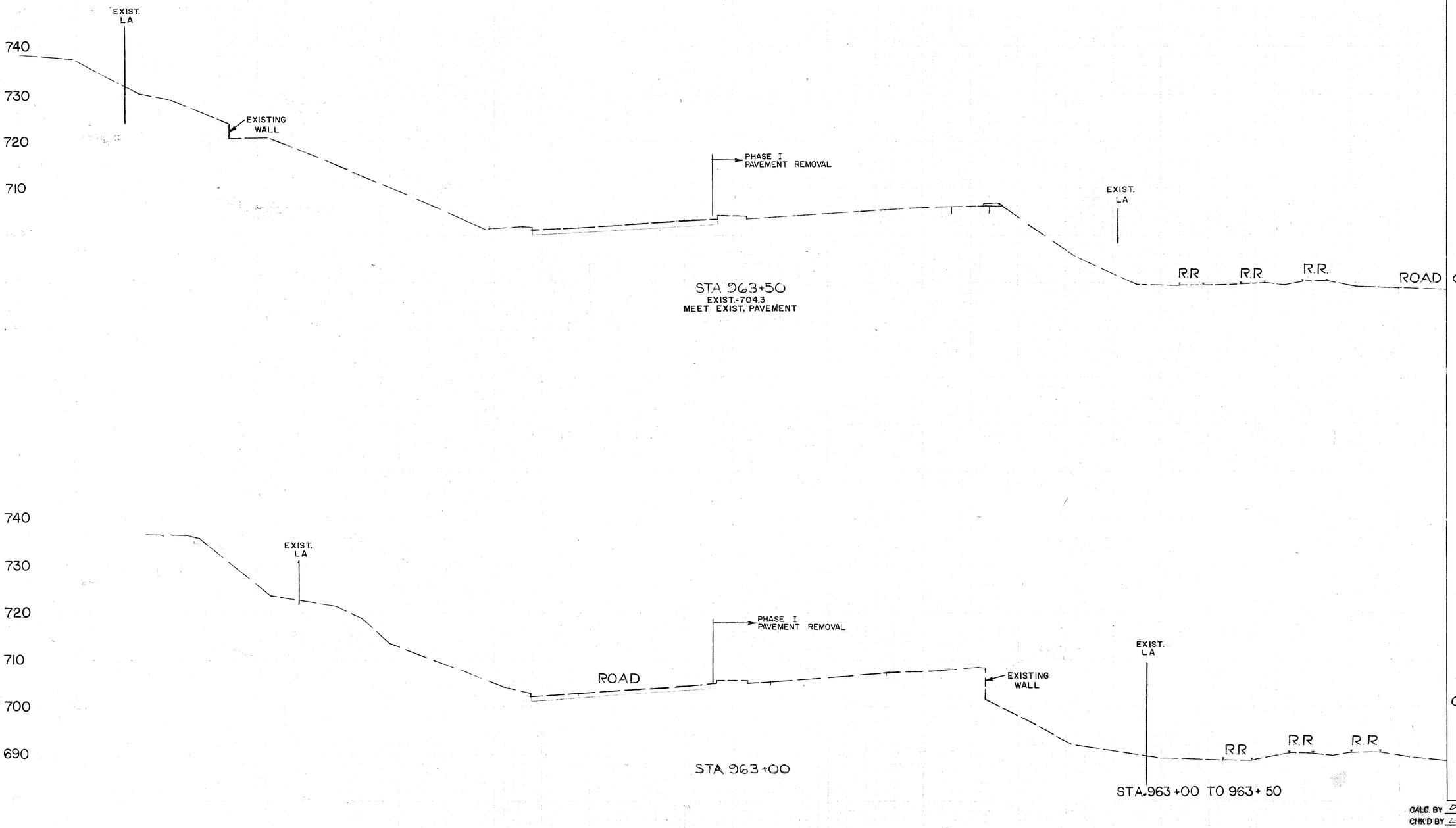
GRADING PLAN
STA. 990+00 TO STA. 1010+50

FHWA REGION	STATE	PROJECT		112
5	OHIO	U-457(14)		362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
0	0

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	0	0	0



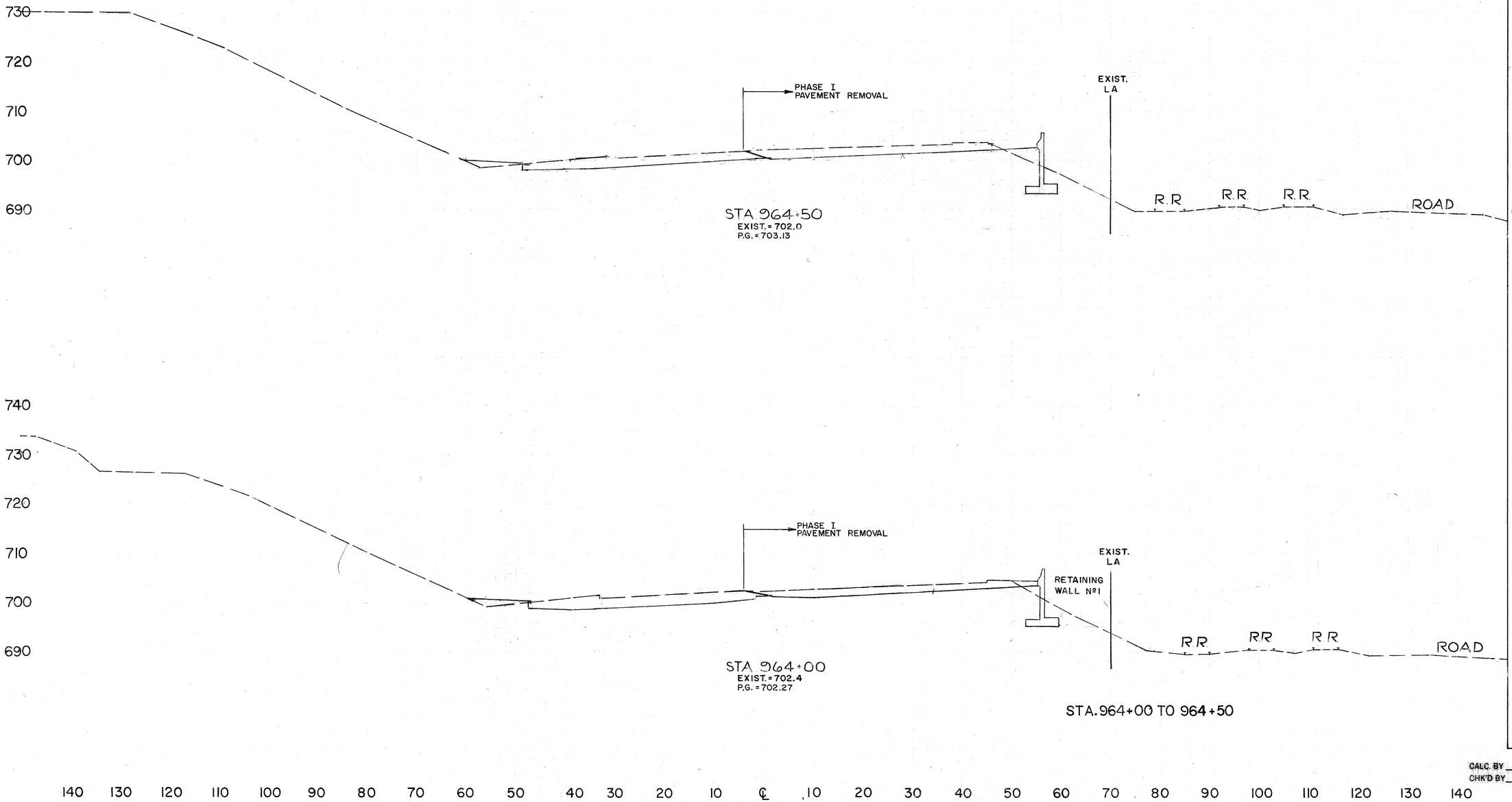
CALC. BY D.M. DATE 1-2-84

CHK'D BY E.C. DATE 2-6-84

FHWA REGION	STATE	PROJECT		113
5	OHIO	U-457 (14)		362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
27	153
28	77



STA.964+00 TO 964+50

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		372	33
174	23		
		331	49
183	30		
		169	29

CALC. BY D.M. DATE 1-2-84
CHK'D BY E.C. DATE 2-6-84

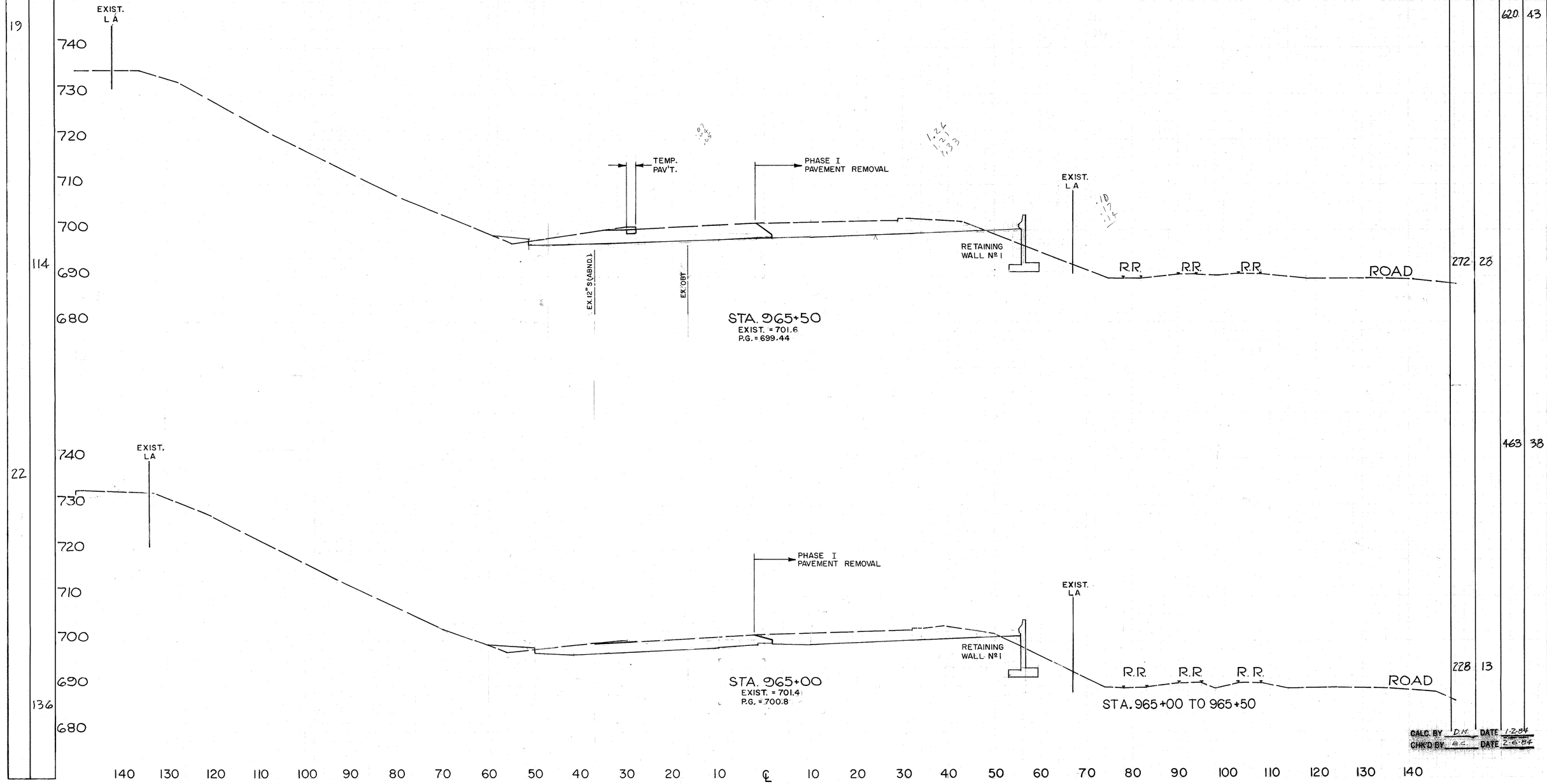
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

114
362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
19	114
22	136

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
620	43		
272	28		
463	38		
228	13		



CALC. BY D.M. DATE 12-84
CHK'D BY E.C. DATE 2-6-84

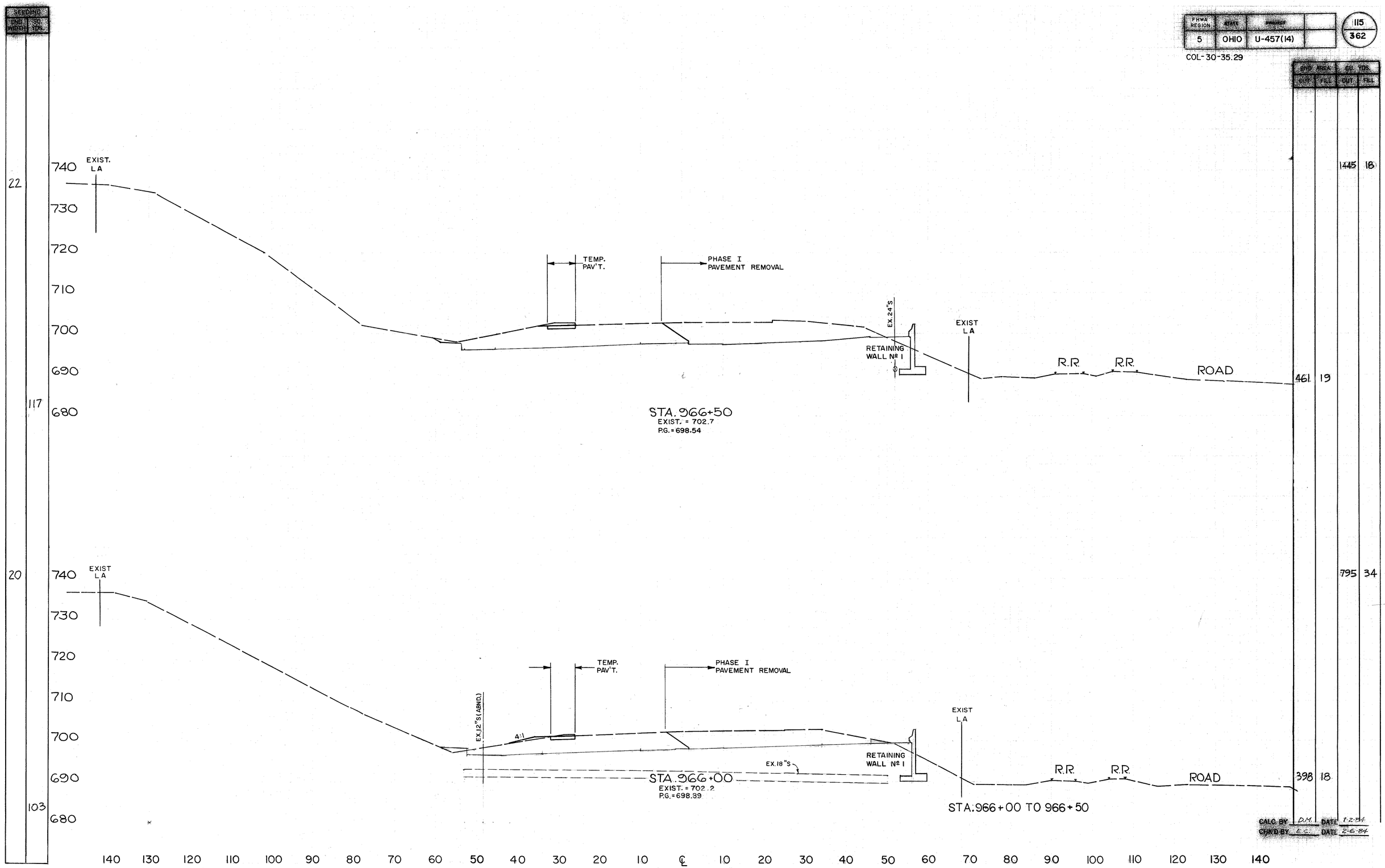
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

115
362

COL-30-35.29

SEEDING	
ENG'G WIDTH	SQ. YDS.
22	117
20	103

END AREA		SQ. YDS.	
CUT	FILL	CUT	FILL
		1445	18
461	19		
		795	34
398	18		

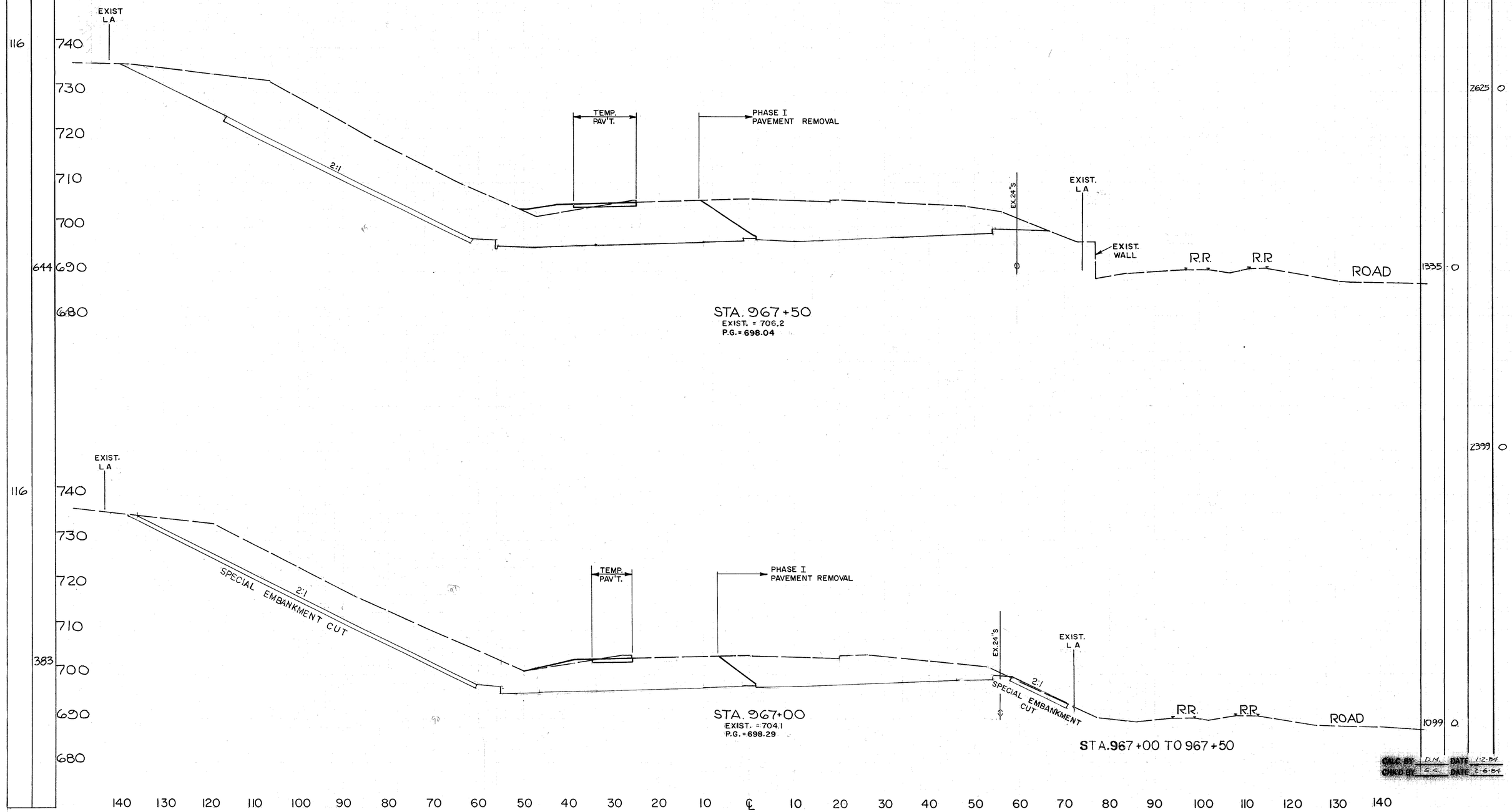


CALC. BY D.M. DATE 1-2-84
CHK'D BY E.S. DATE 2-6-84

FHWA REGION	STATE	PROJECT		116 / 362
5	OHIO	U-457(14)		

COL-30-35.29

SEEDING		END AREA		CU. YDS.	
LENGTH (METRIC)	SQ. YDS.	CUT	FILL	CUT	FILL
116	740			2625	0
644	690			1335	0
383	700			2399	0
				1099	0



STA. 967+00 TO 967+50

CALC BY D.M. DATE 1-2-84
CHKD BY E.C. DATE 2-6-84

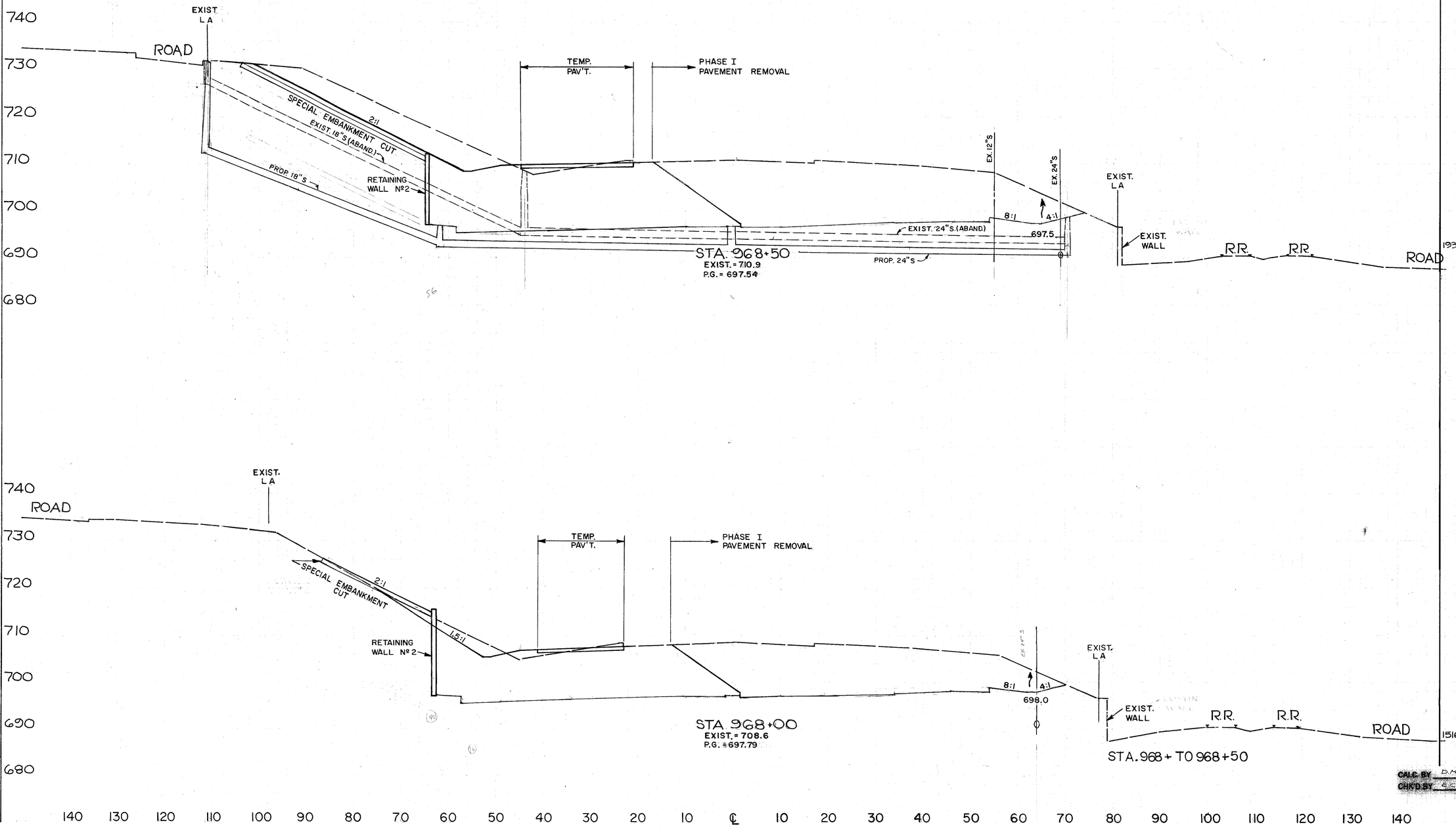
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

117
362

COL-30-35.29

SEEDING	
LANE WIDTH	SQ. YDS.
84	293
60	489

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		4530	0
1937	0		
		3165	0
1516	0		



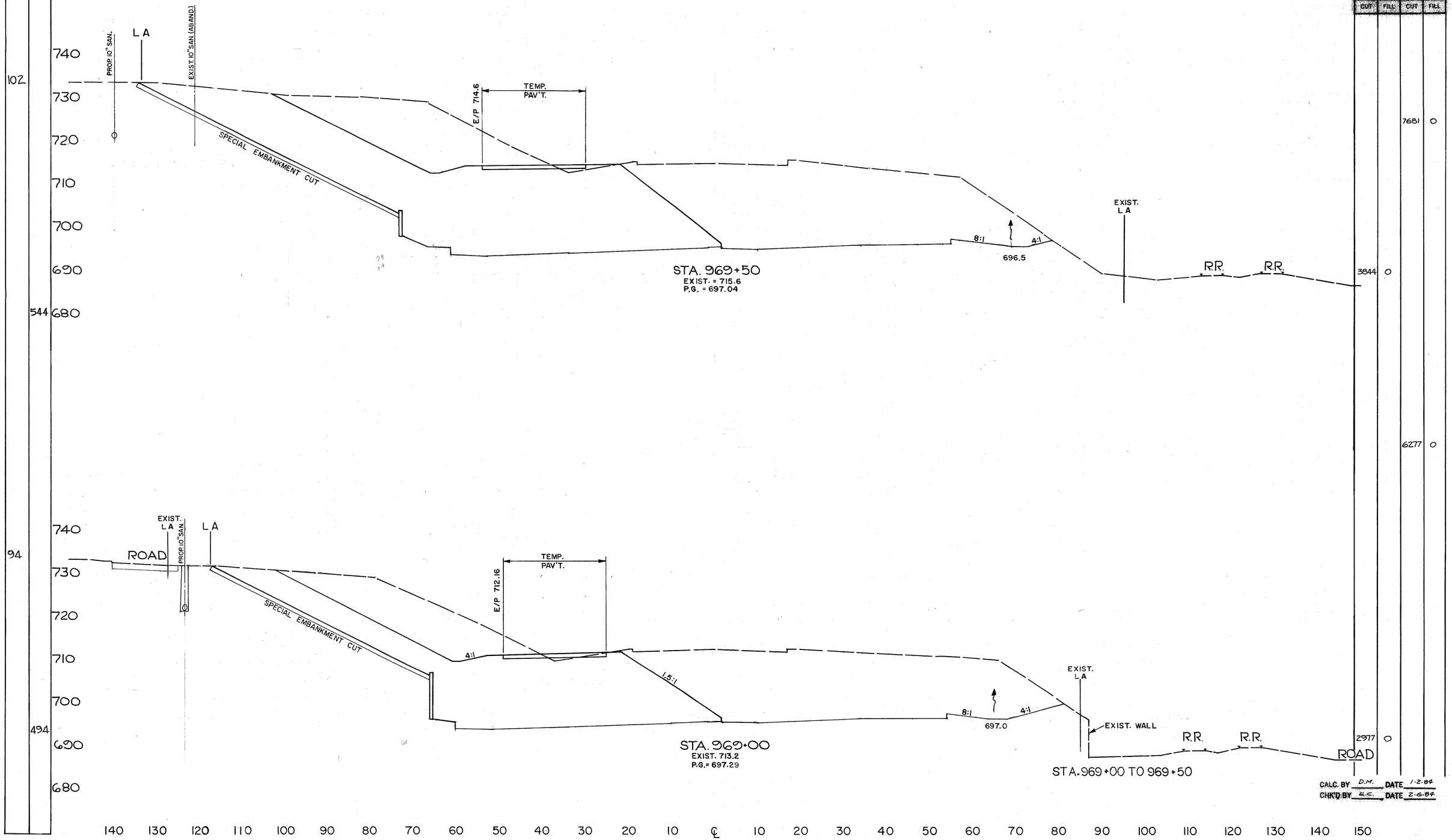
CALC. BY D.M. DATE 12-84
CHK'D BY E.C. DATE 2-685

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

118
362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
102	
	544
94	
	494



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		7681	0
3844	0		
		6277	0
2977	0		

CALC. BY D.M. DATE 1-2-84
CHK'D BY E.C. DATE 2-6-84

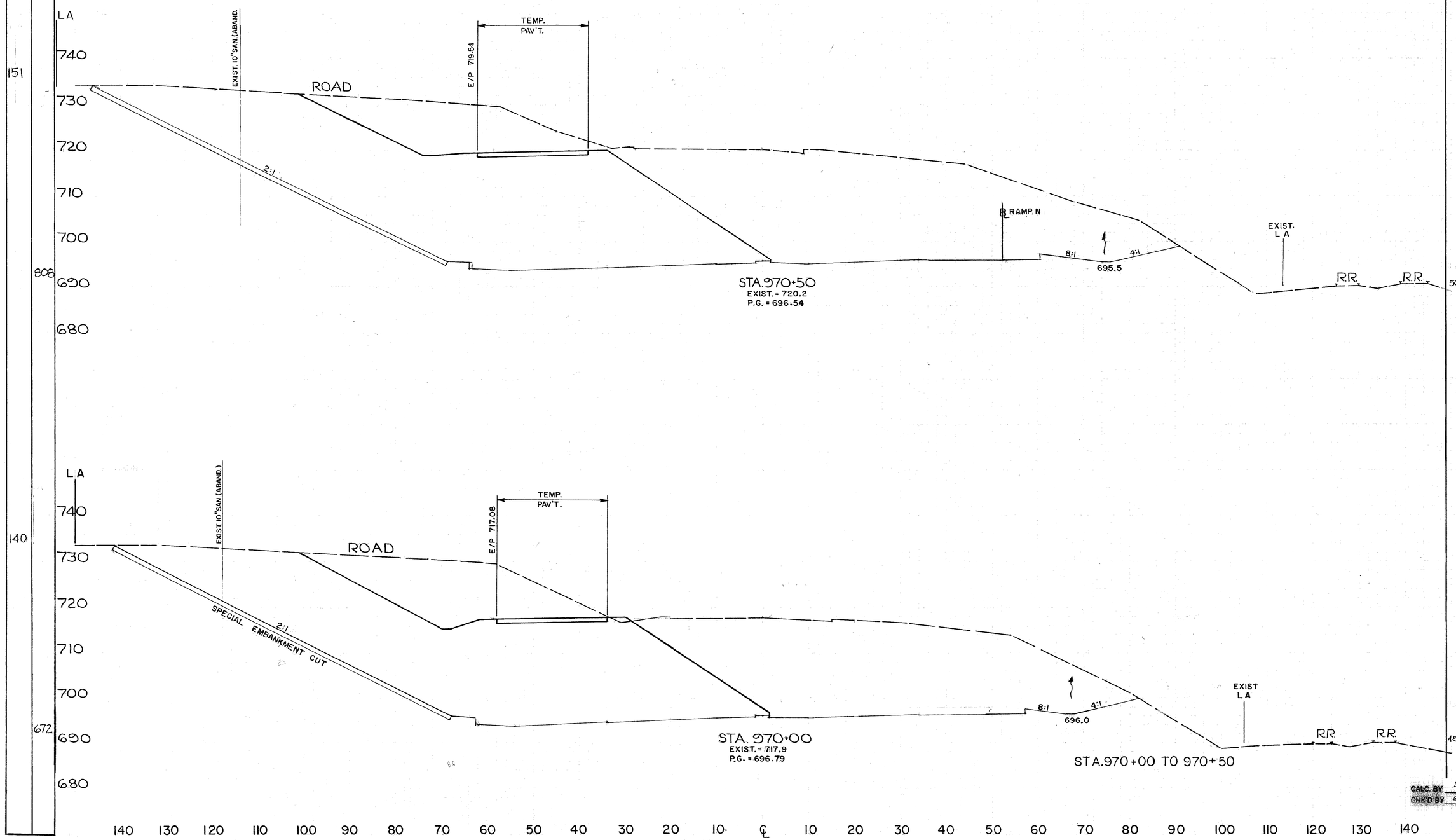
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

119
362

COL-30-35.29

SEEDING	
SEND WIDTH	SQ. YDS.
151	808
140	672

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		9372	0
		8802	0
5065	0		
4518	0		



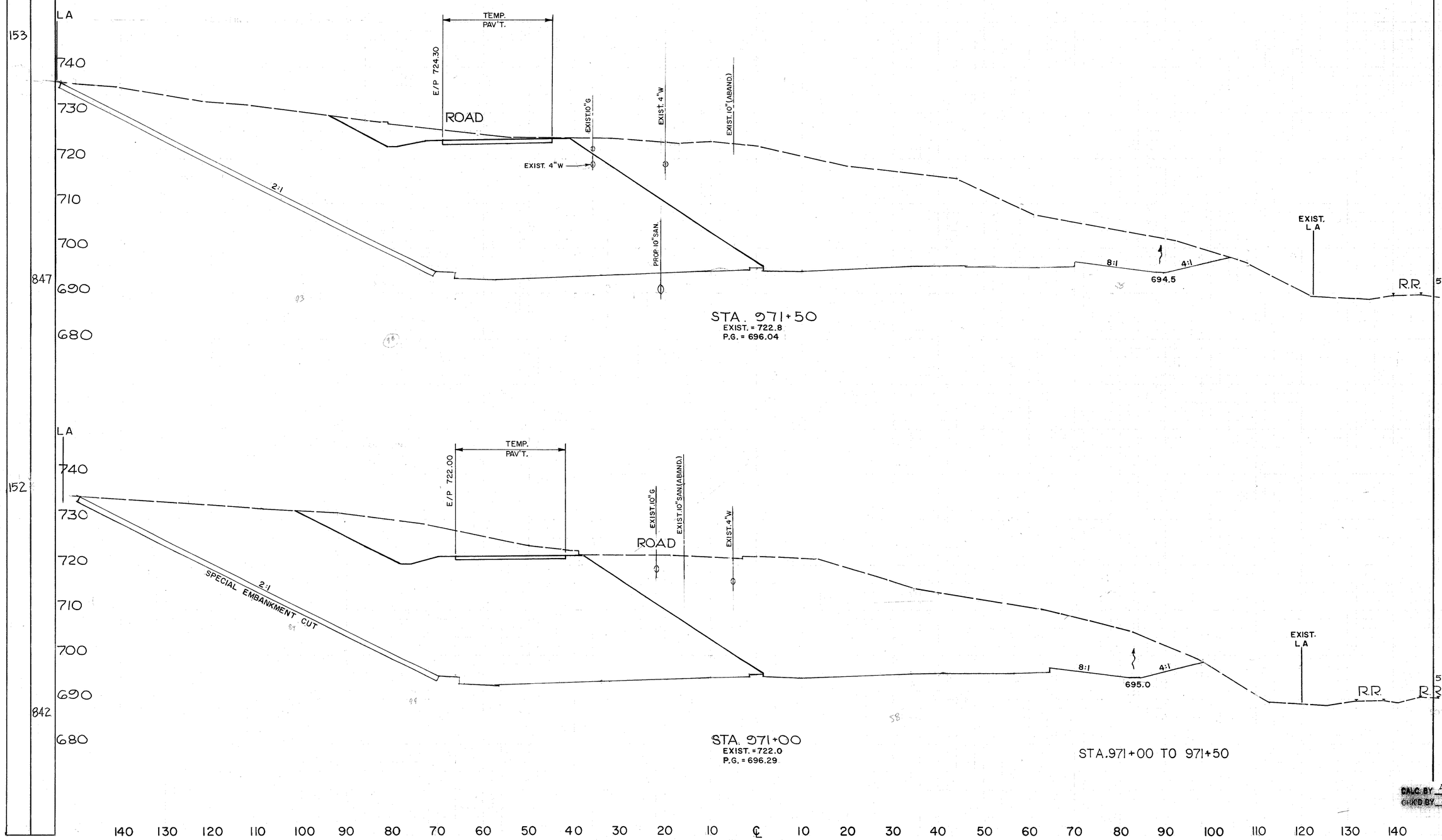
CALC. BY D.M. DATE 1-2-84
CHK'D BY E.C. DATE 2-6-84

FHWA REGION	STATE	PROJECT		SHEET NO.
5	OHIO	U-457(14)		120 / 362

COL-30-35.29

SLOPES	
END WIDTH	SQ. YDS.
153	847
152	842

GRID INDEX		CU. YDS.	
CUT	FILL	CUT	FILL
		9867	0
		5176	0
		9475	0
		5137	0



STA. 971+50
EXIST. = 722.8
P.G. = 696.04

STA. 971+00
EXIST. = 722.0
P.G. = 696.29

STA. 971+00 TO 971+50

CALC. BY D.M. DATE 1-2-84
CHK'D BY E.C. DATE 2-6-84

FHWA REGION	STATE	PROJECT		121
5	OHIO	U-457(14)		362

COL-30-35.29

SEEDING	
SEND WIDTH	SQ. YDS.
180	922
152	847

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		10703	0
5974	0		
		10583	0
5568	0		

740
730
720
710
700
690
680

MATCHLINE B-B

EXIST. 6" SAN. (ABAND.)

EXIST. 10" G

EXIST. 4" W

2:1

PROP. 18" S

LA

MATCHLINE B-B

160 150 140

8:1 8:1 8:1

EXIST. 10" SAN. (ABAND.)

693.5

LA

STA. 972+50
EXIST. = 721.6
P.G. = 695.54

740
730
720
710
700
690
680

MATCHLINE A-A

TEMP. PAV'T.

PHASE I PAVEMENT REMOVAL

EXIST. 4" G

EXIST. 4" W

2:1
SPECIAL EMBANKMENT CUT

LA

MATCHLINE A-A

730

160 150 140

PROP. 15" SAN.

STA. 972+00
EXIST. = 722.1
P.G. = 695.79

EXIST. 10" SAN. (ABAND.)

8:1

694.0

LA

EXIST. WALL

STA. 972+00 TO STA. 972+50

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

CALC. BY D.M. DATE 1-3-84
CHK'D BY E.C. DATE 2-7-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

122
362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
193	1081
196	1044

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		10816	0
		5915	0
		10662	0
		5701	0

740
730
720
710
700
690
680

MATCHLINE B-B
EXIST. 6"SAN.(ABAND.)
EXIST. 10"G
ROAD
EXIST. 4"W
2:1
LA
PROP. 24"S
MATCHLINE B-B
160 150 140
8:1
694.50
8:1
EXIST. 10"SAN.(ABAND.)
8:1
4:1
692.5
LA
158

STA. 973 +50
EXIST. = 718.4
P.G. = 694.04

MATCHLINE A-A
EXIST. 6"SAN.(ABAND.)
EXIST. 10"G
ROAD
EXIST. 4"W
2:1
SPECIAL EMBANKMENT CUT
LA
MATCHLINE A-A
160 150 140
8:1
695.0
8:1
EXIST. 10"SAN.(ABAND.)
8:1
4:1
695.0
LA

STA. 973 +00
EXIST. = 719.2
P.G. = 695.29

STA. 973+00 TO 973+50

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 6 70 80 90 100 110 120 130 140

CALC. BY D.M. DATE 1-3-84
CHK'D BY E.C. DATE 2-7-84

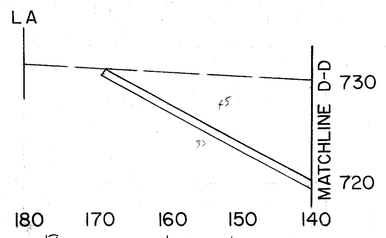
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

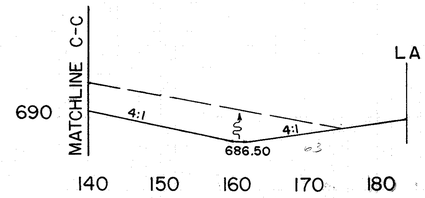
123
362

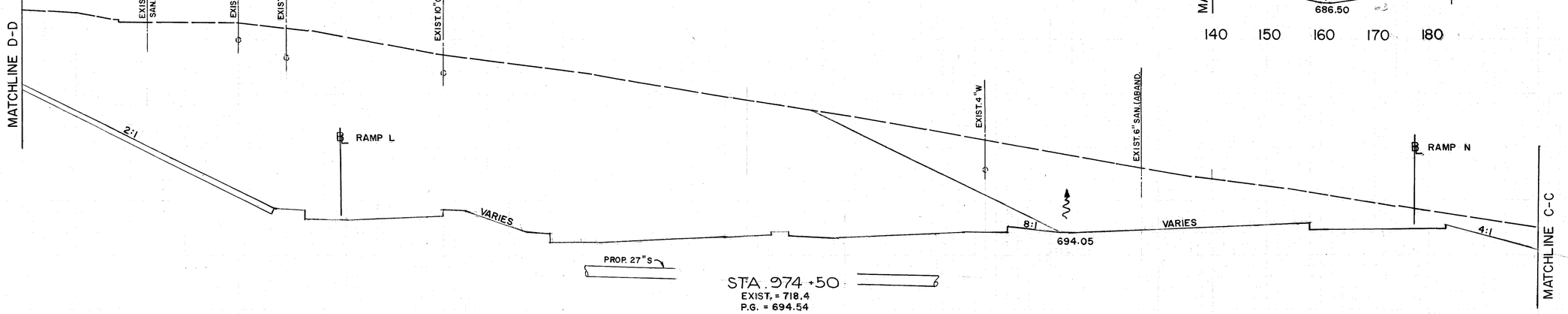
COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
242	1219
197	1083

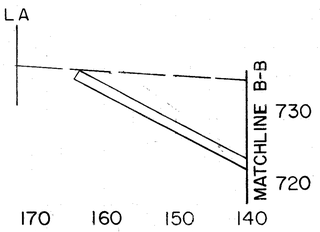
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		10914	0
5827	0		
		10734	0
5873	0		

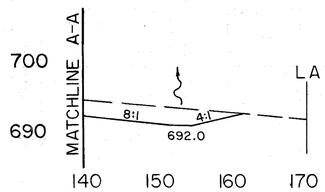


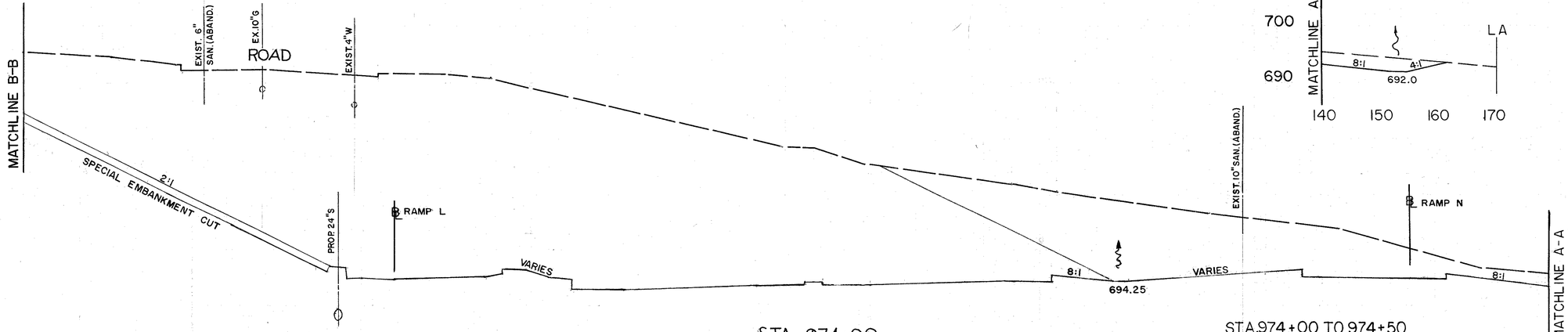




STA. 974+50
EXIST. = 718.4
P.G. = 694.54







STA. 974+00
EXIST. = 718.4
P.G. = 694.79

STA. 974+00 TO 974+50

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 140 150

CALC BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-7-84

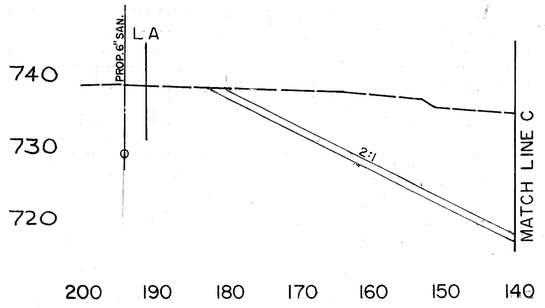
FHWA REGION	STATE	PROJECT		124
5	OHIO	U-457(14)		362

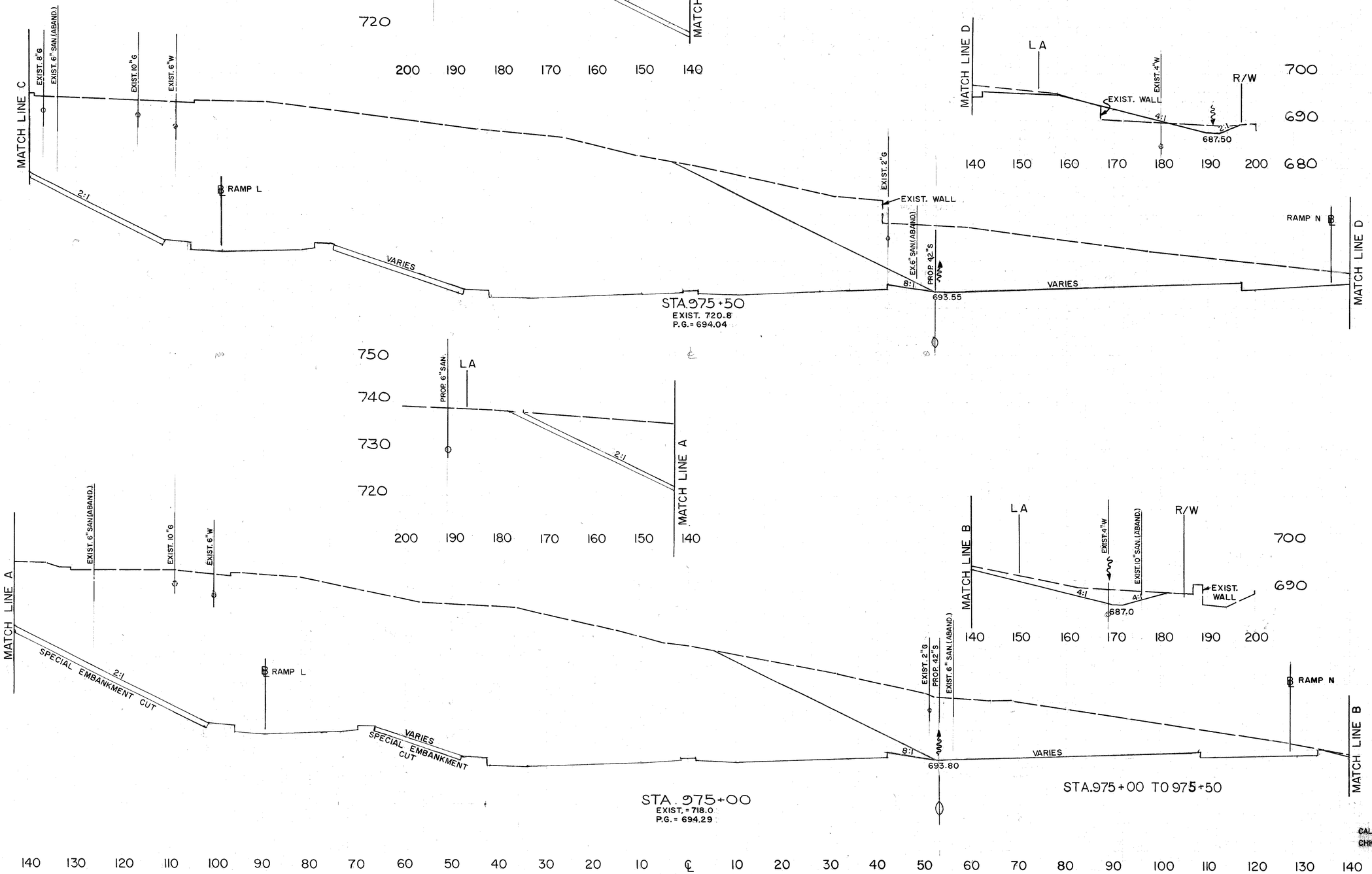
COL-30-35.29

SEEDING

END WIDTH	SQ. YDS.
229	
	1344
255	
	1381

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		11784	0
6489	0		
		11514	0
6074	0		





CALC. BY D.M. DATE 1-3-84
CHK'D BY E.C. DATE 2-7-84

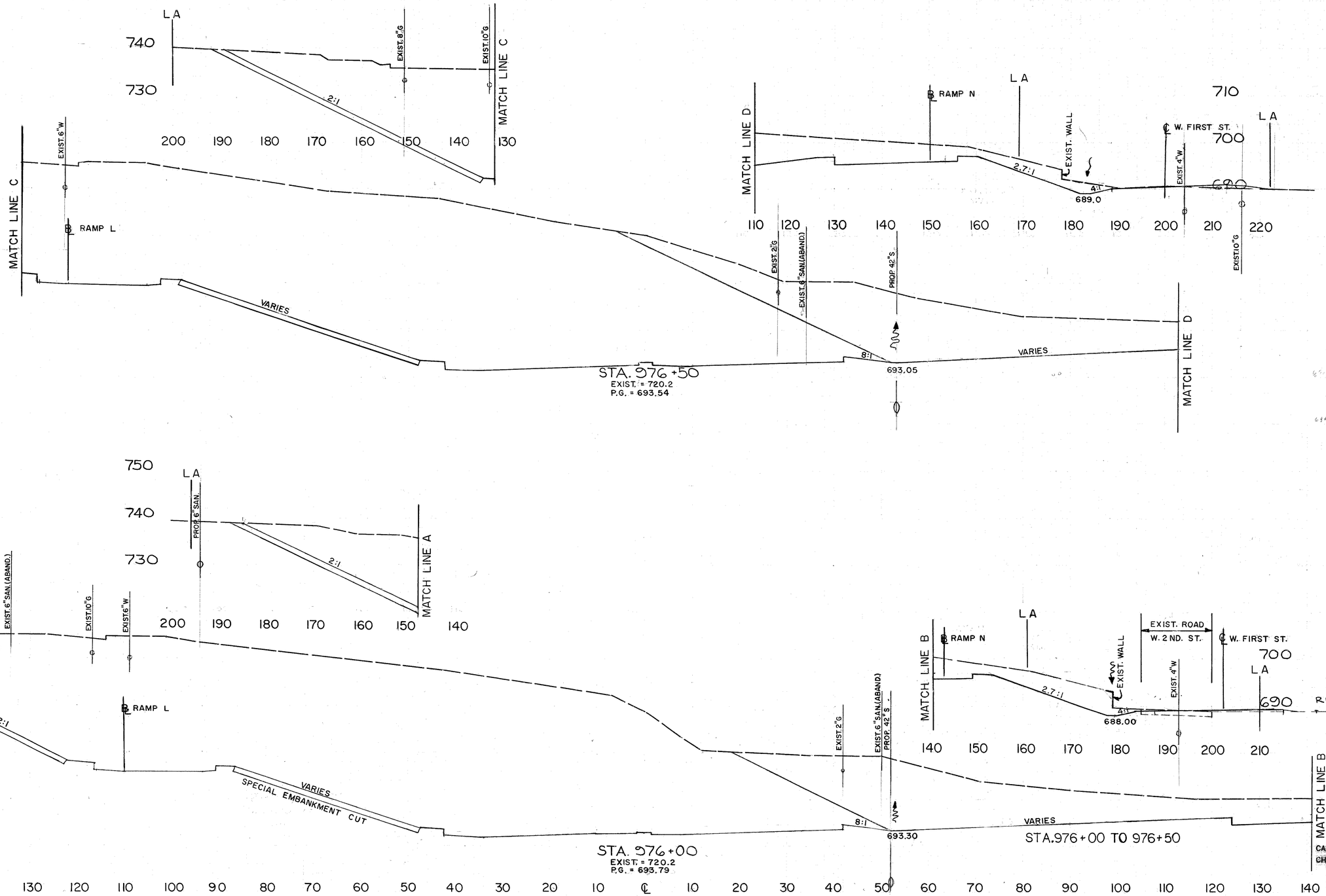
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

125
362

COL-30-35.29

SEEDING		
END WIDTH	SQ. YDS.	
265	1456	
259	1356	

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		12043	0
6530	0		
		11622	0
6366	0		



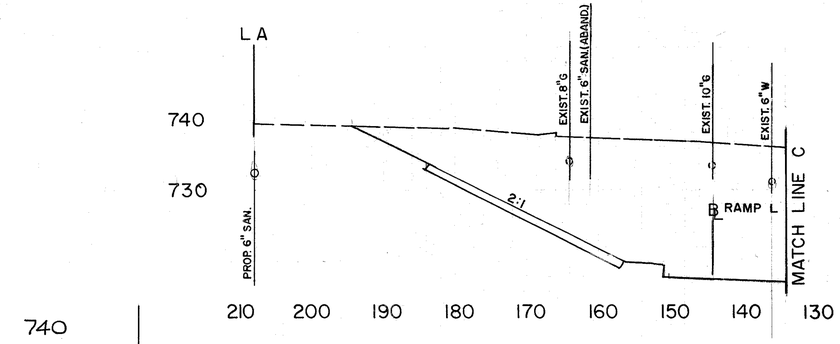
CALC. BY E.C. DATE 1-3-84
CHK'D BY D.M. DATE 2-7-84

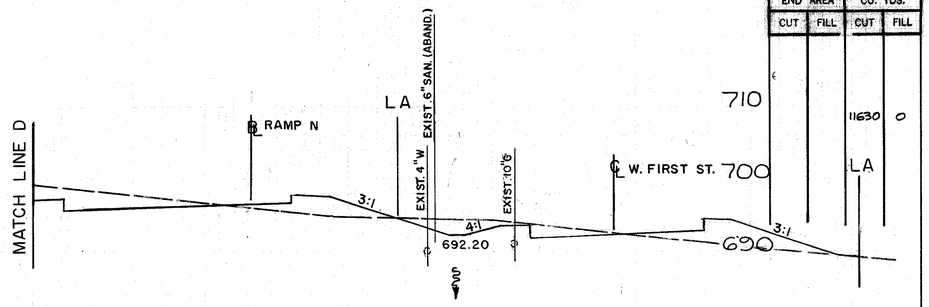
FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

126
362

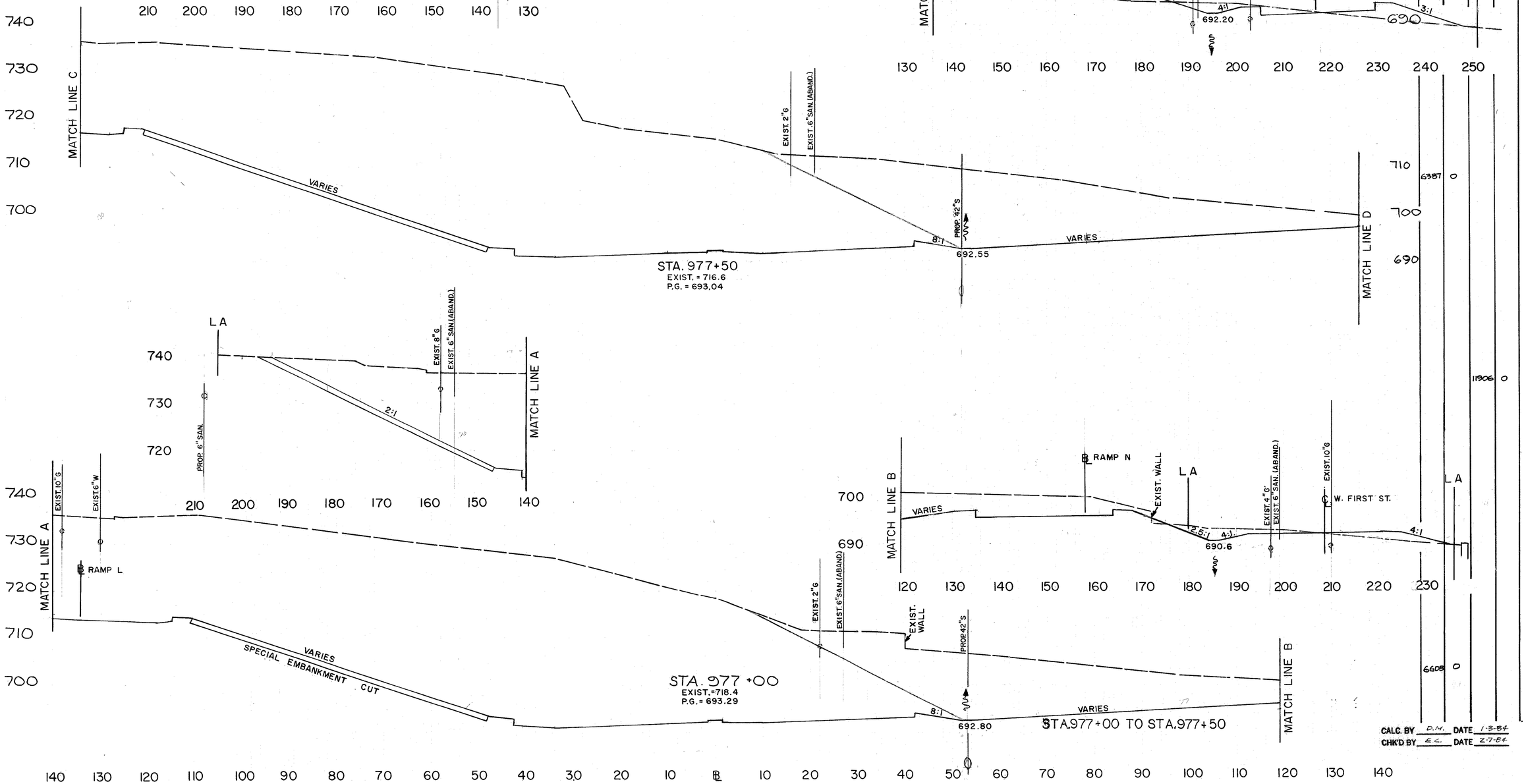
COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
	301
	1575
	266
	1475





END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		11630	0
		6387	0
		11906	0
		6608	0



CALC. BY D.M. DATE 1-3-84
CHK'D BY E.C. DATE 2-7-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

COL-30-35.29

127
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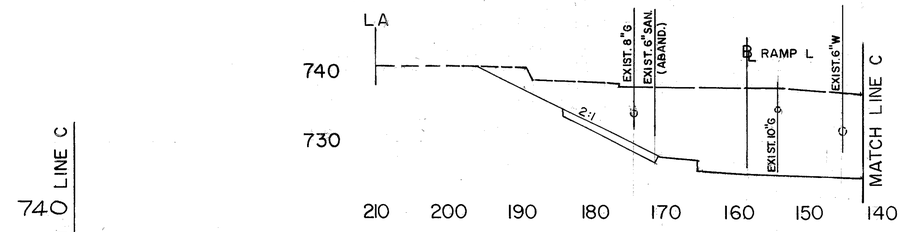
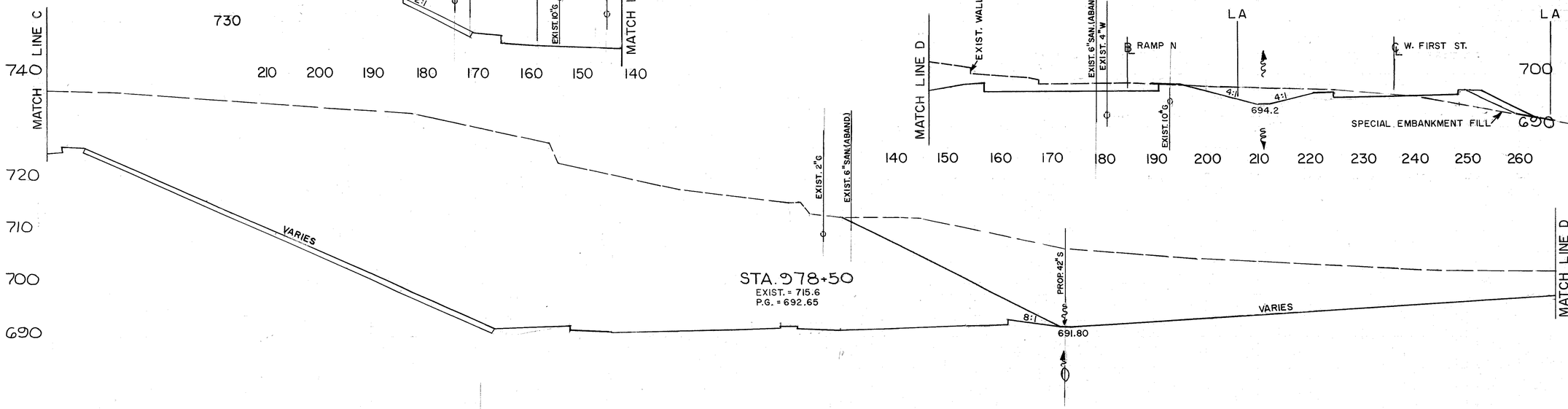
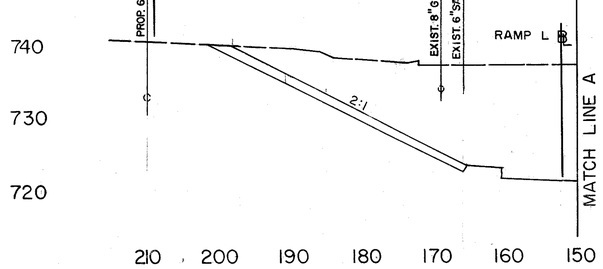
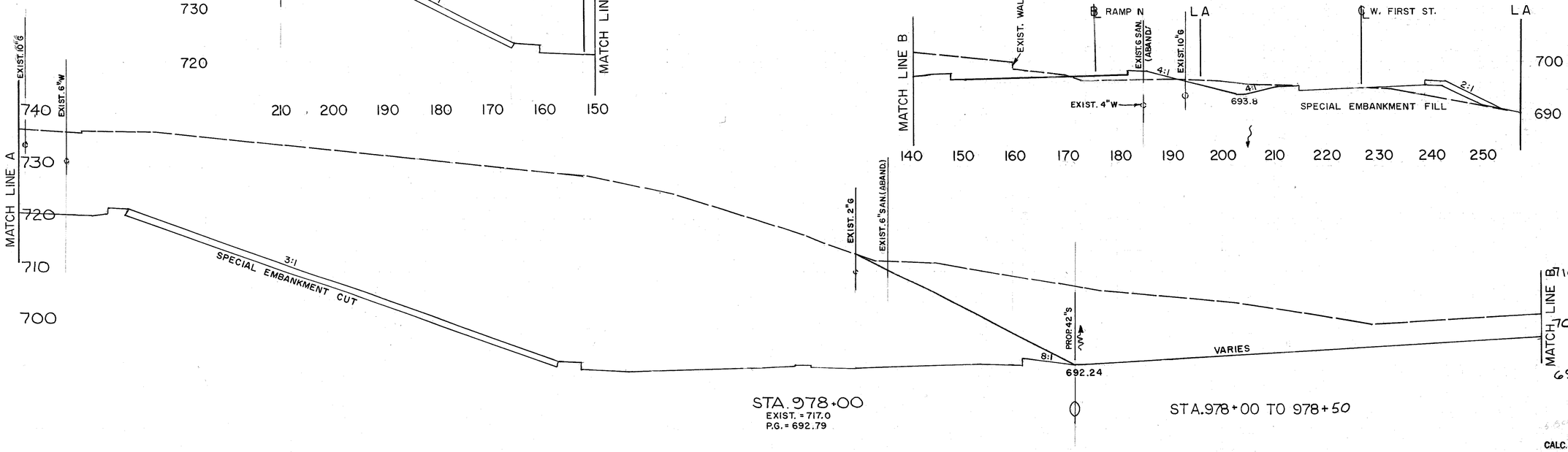
SEEDING		
END	SQ	
WIDTH	YDS.	
	319	
	1736	
	306	
	1686	









STA. 978+00 TO 978+50

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		11134	0
6278	0		
		11546	0
6308	0		

CALC. BY D.M. DATE 1-3-84
CHK'D BY E.C. DATE 2-7-84

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
24	989
332	1847
333	1811

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		6542	0
		3527	0
		8138	0
		5295	0
		10258	0
		5817	0

740 730 720 710 700

CONCRETE SLOPE PROTECTION 2:1 8:1 691.64 EXIST.2"G EXIST.6"SAN.(ABAND.) PROP.15"S VARIES CONCRETE SLOPE PROTECTION 692.79

STA.980+00
EXIST. = 713.8
P.G. = 693.54

LA EXIST.8"G EXIST.NH. RAMP L EXIST.10"G EXIST.6"W MATCH LINE E 740 730 4:1

200 190 180 170 160 150 140

PROP.21"S

MATCH LINE E BACK AHEAD WING WALL 2:1 8:1 691.2 EXIST.2"G EXIST.6"SAN.(ABAND) PROP.15"SAN.

STA.979+50
EXIST. = 714.6
P.G. = 693.02

LA EXIST.6"G EXIST.6"SAN.(ABAND) SPECIAL EMBANKMENT CUT 2:1 EXIST.10"G EXIST.6"W PROP.21"S RAMP L MATCH LINE A 740 730 720

740 200 190 180 170 160 150 140

MATCH LINE A EXIST. WALL 2.2:1 8:1 690.82 EXIST.2"G EXIST.6"SAN.(ABAND) PROP.15"S

STA.979+00
EXIST. = 714.2
P.G. = 692.73

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

700 MATCH LINE C EXIST.6"SAN.(ABAND.) EXIST.4"W EXIST.10"G RAMP N LA 5:1 4:1 693.30 W. FIRST ST. 3:1

150 160 170 180 190 200 210 220 230 240 250 260

AHEAD BACK MATCH LINE C 8:1 692.27 VARIES

700 MATCH LINE B EXIST.6"SAN.(ABAND) EXIST.4"W EXIST.10"G RAMP N LA 4:1 4:1 694.0 ℄ W. FIRST ST. 2:1

140 150 160 170 180 190 200 210 220 230 240 250

MATCH LINE B 8:1 691.98 VARIES

STA.979+00 TO 980+00

CALC. BY D.M. DATE 1-3-84
CHK'D BY E.C. DATE 2-7-84

FHWA REGION	STATE	PROJECT	
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COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
184	1022
184	578
24	133

MATCHLINE THIRD ST.

2:1

8:1

694.50

EXIST. 6"SAN.(ABAND.

EXIST. 2"G

PROP. 15"S

STA. 981+50
EXIST. = 714.6
P.G. = 696.60

8:1

695.89

6:1

MATCHLINE SECOND ST.

MATCHLINE THIRD ST.

AHEAD BACK

SPECIAL EMBANKMENT CUT

EXIST. 6"SAN.(ABAND.)

EXIST. 2"G

PROP. 15"S

STA. 981+00
EXIST. = 714.4
P.G. = 695.23

BACK AHEAD

8:1

693.32

8:1

694.72

MATCHLINE SECOND ST.

MATCH TO JACKSON ST.

WING WALL

EXIST. WALL

2:1

8:1

692.37

EXIST. 6"SAN.(ABAND)

EXIST. 2"G

PROP. 15"S

STA. 980+50
EXIST. = 713.5
P.G. = 694.27

8:1

693.76

2:1 CONCRETE SLOPE PROTECTION

MATCH TO JACKSON ST.

STA. 980+50 TO 981+50

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		6932	0
3770	0		
		6989	0
3818	0		
		6807	0
3563	0		

140' 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

CALC. BY D.M. DATE 1-3-84
CHK'D BY E.C. DATE 2-7-84

FHWA REGION	STATE	PROJECT	
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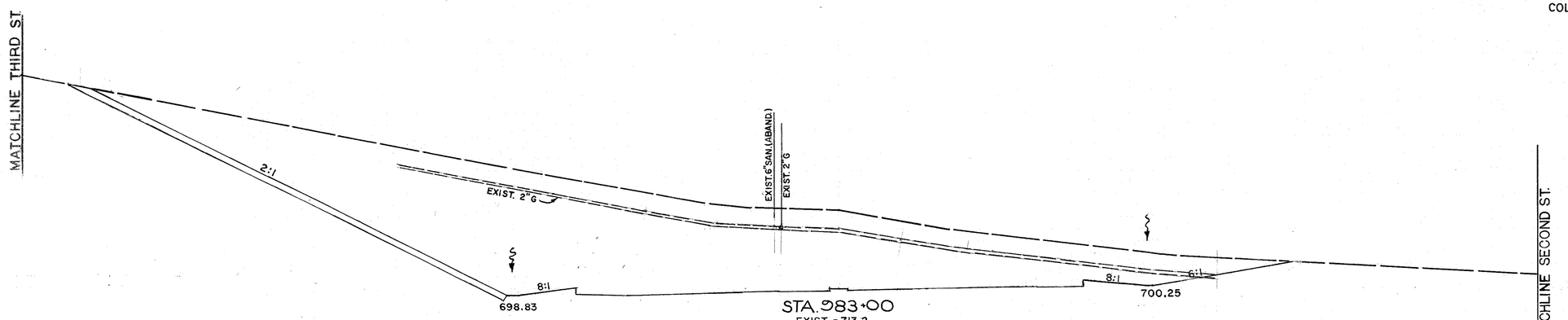
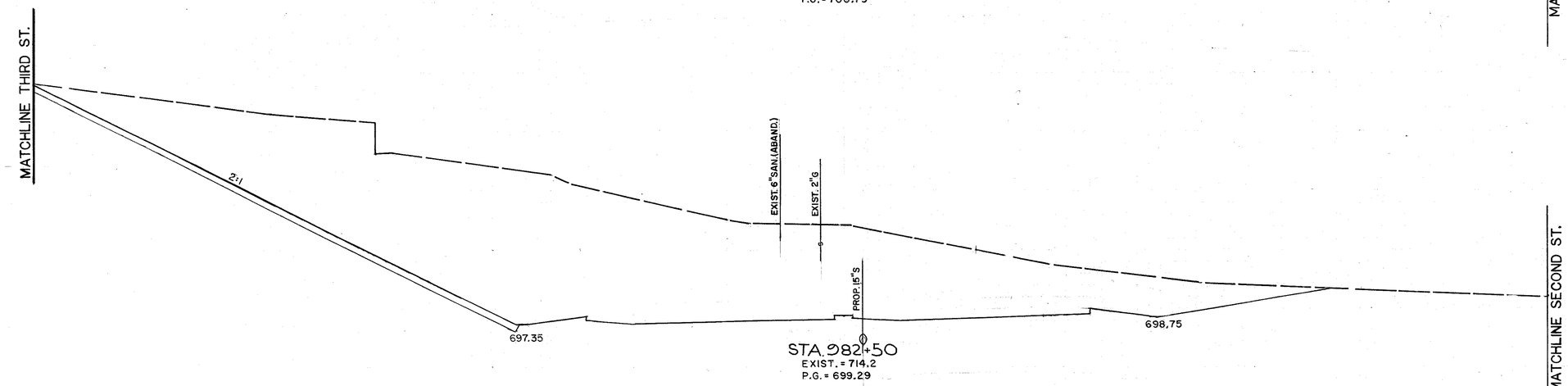
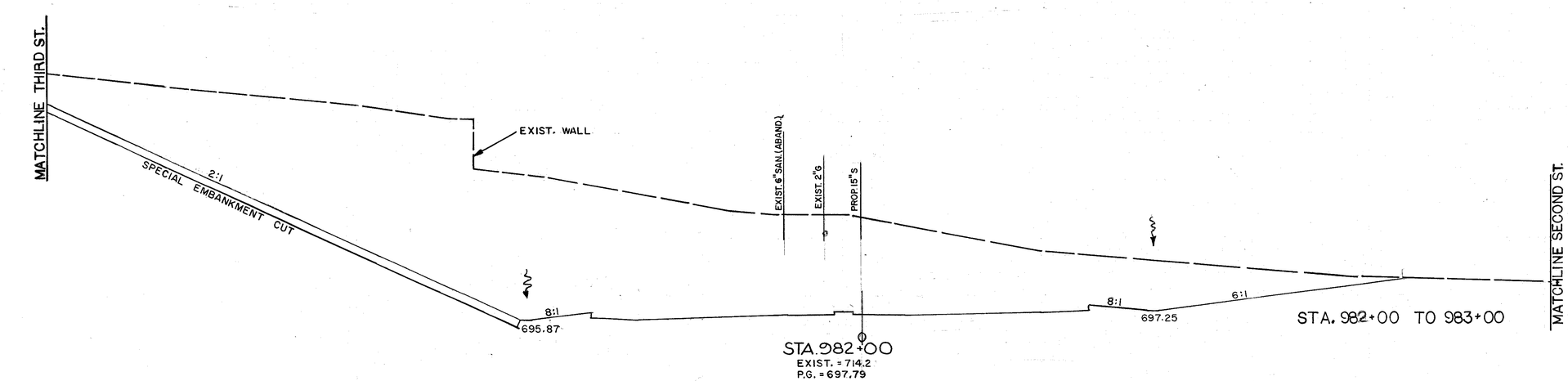
COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
182	975
169	972
181	1014







END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		4458	0
2382	0		
		4989	0
3042	0		
		6259	0
3763	0		

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

CALC. BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-3-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

SEEDING	
SEND WIDTH	SQ. YDS.
179	1009
182	1522
183	1014

MATCHLINE THIRD ST.

SPECIAL EMBANKMENT CUT 2:1

EXIST. 6" SAN. (ABAND.)

EXIST. 2" G

8:1

703.24

STA. 984+50
EXIST. = 714.4
P.G. = 705.29

MATCHLINE SECOND ST.

701.73

STA. 984+00
EXIST. = 714.4
P.G. = 703.79

703.25

MATCHLINE THIRD ST.

EXIST. WALL

700.28

STA 983+50
EXIST. = 713.9
P.G. = 702.29

701.75

STA. 983+50 TO STA. 984+50

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		2625	54
1375	0		
		3238	0
2148	0		
		424.1	0
2465	0		

CALC. BY DM DATE 1-4-84
CHK'D BY ES DATE 2-8-84

CALC. BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-8-84

FHWA REGION	STATE	PROJECT	
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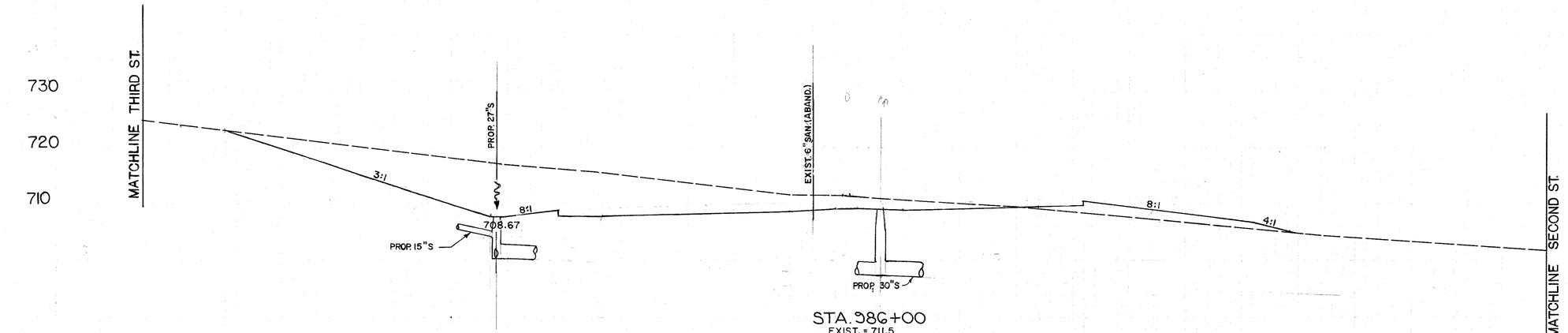
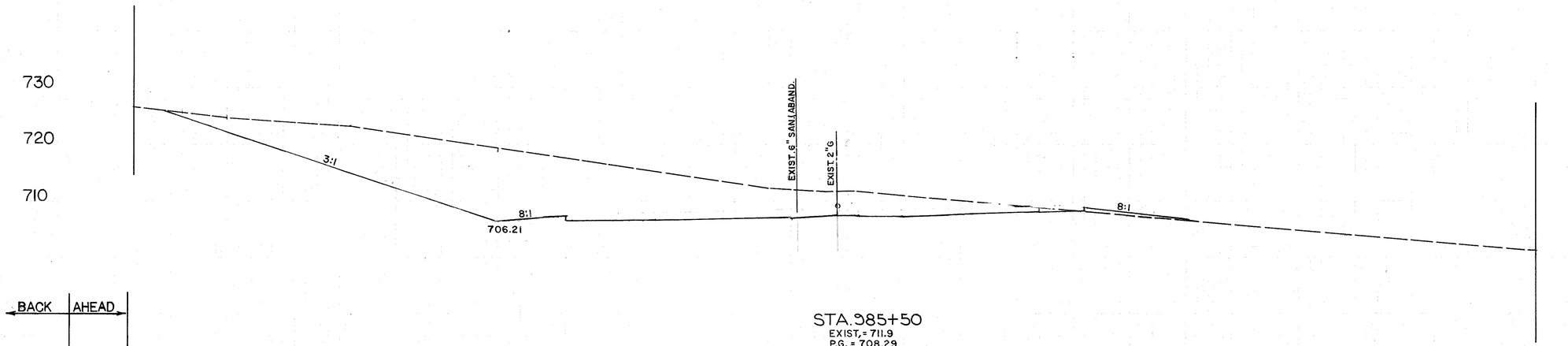
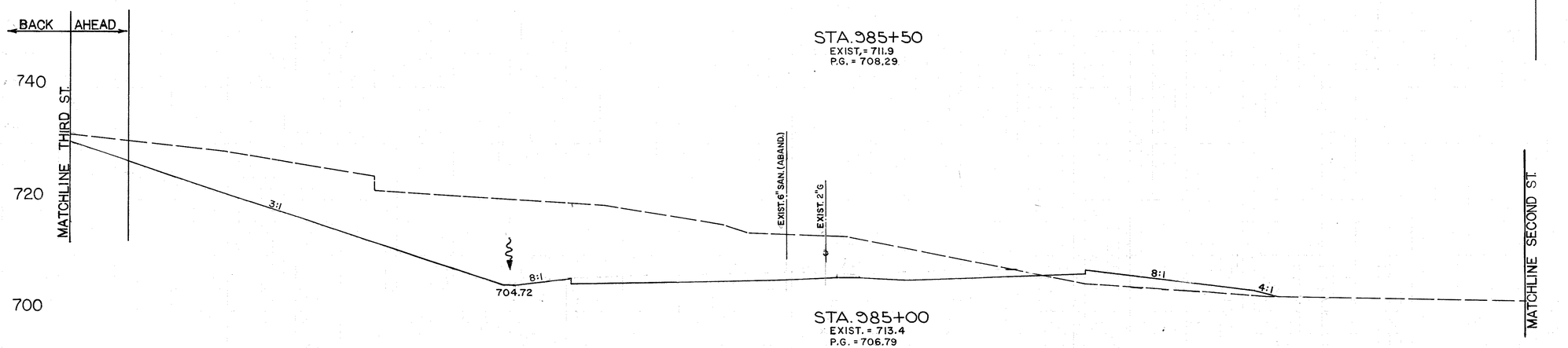
SEEDING AND MULCH YDS.	
	1328
160	
	925
173	
	978



STA. 986+00
EXIST. = 711.5
P.G. = 709.79



STA. 985+50
EXIST. = 711.9
P.G. = 708.29



STA. 985+00
EXIST. = 713.4
P.G. = 706.79

STA. 985+00 TO STA. 986+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		1307	151
632	52		
		1511	56
1014	8		
		2292	62
1484	58		

FHWA REGION	STATE	PROJECT	
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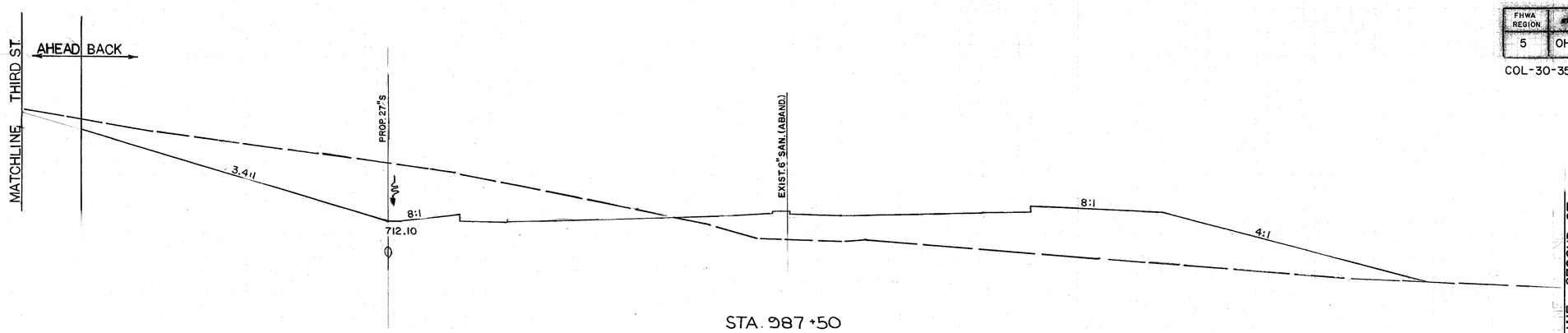
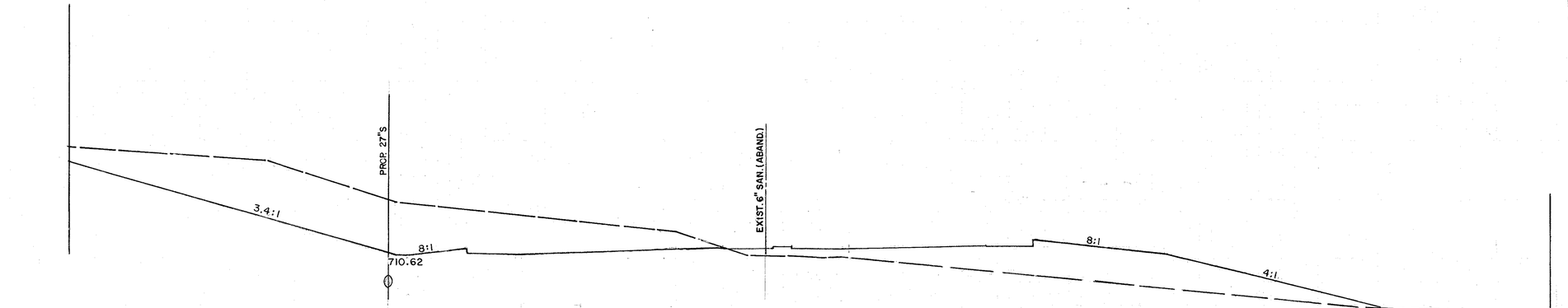
COL-30-35.29

SEEDING END WIDTH	SEEDING SQ. YDS.
158	509
168	908
159	881

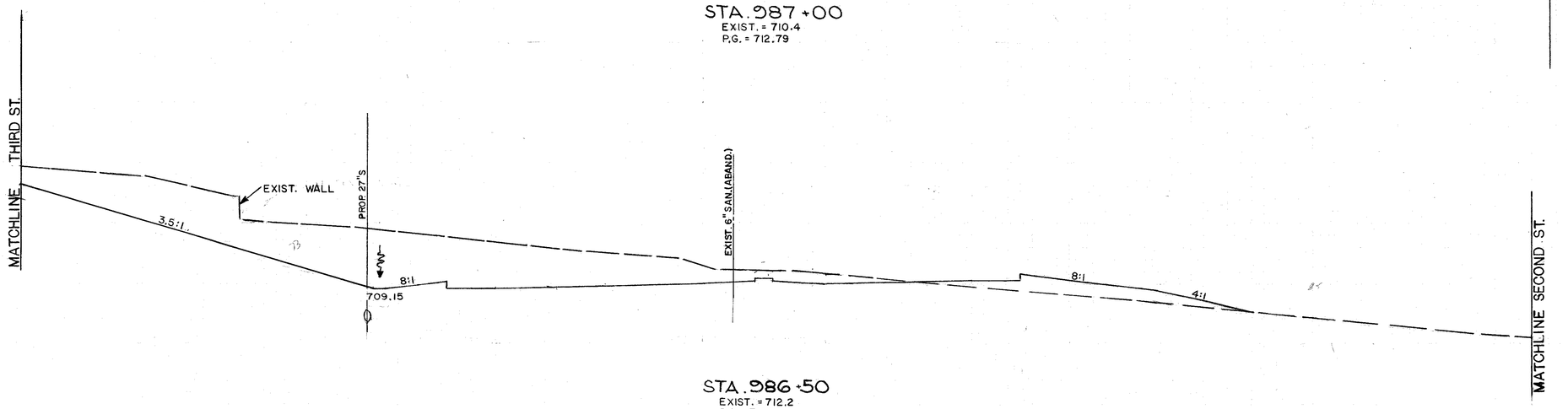
END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		745	1110
530	651		
		1140	958
716	375		
		1381	452
793	109		



STA. 987+50
EXIST. = 709.2
P.G. = 714.29



STA. 987+00
EXIST. = 710.4
P.G. = 712.79



STA. 986+50
EXIST. = 712.2
P.G. = 711.29

STA. 986+50 TO 987+50

CALC. BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-8-84

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FHWA REGION	STATE	PROJECT	
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COL-30-35.29

CUT	FILL	CU. YDS. CUT	CU. YDS. FILL
		49	2004
54	951		
		283	1486
256	668		
		492	1124
283	541		

87
472
83
464
A84
B102
722

740
730
720
710
700

MATCHLINE THIRD ST.

PROP. 30"S

EXIST. 6" SAN. (ABAND.)

PROP. RET. WALL #3

PROP. RETAINING WALL #3

SPECIAL EMBANKMENT FILL

SECTION AHEAD

SECTION BACK

LA

3.7:1 8:1 716.68 2:1

STA. 989+00
EXIST. = 709.8
P.G. = 718.79

3.6:1 8:1 715.18 2:1

STA. 988+50
EXIST. = 709.9
P.G. = 717.29

3.5:1 8:1 713.68 2:1

STA. 988+00
EXIST. = 708.6
P.G. = 715.79

STA. 988+00 TO 989+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 120 130 140 150

CALC BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-8-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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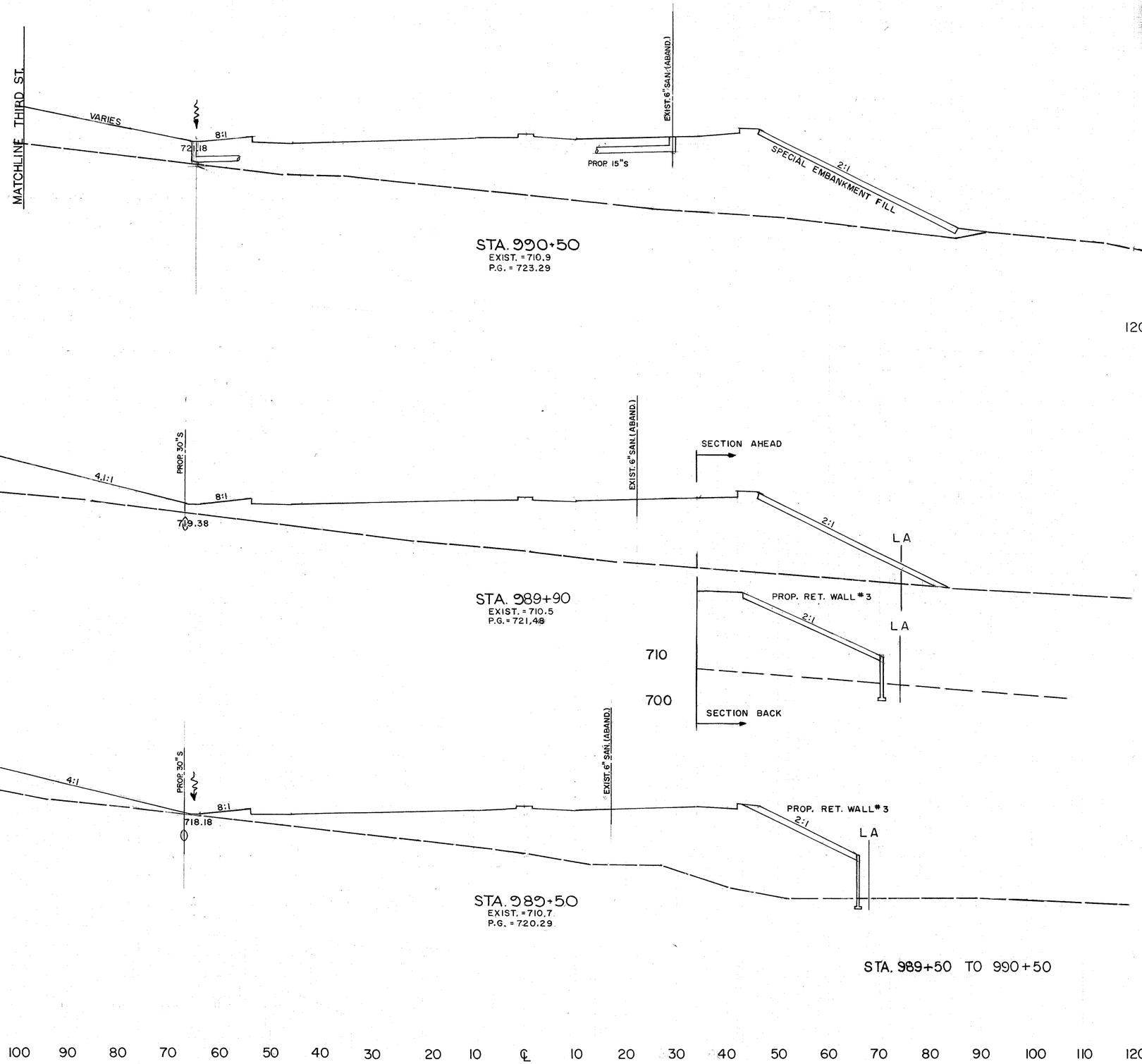
COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
169	
	1014
A98 B91	
	389
84	
	475



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		0	2832
0	1678	MATCHLINE SECOND ST.	
		0	3449
0	1424		
		0	1966
0	1228		

STA. 989+50 TO 990+50

CALC. BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-8-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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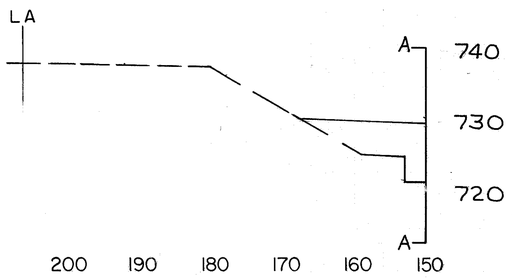
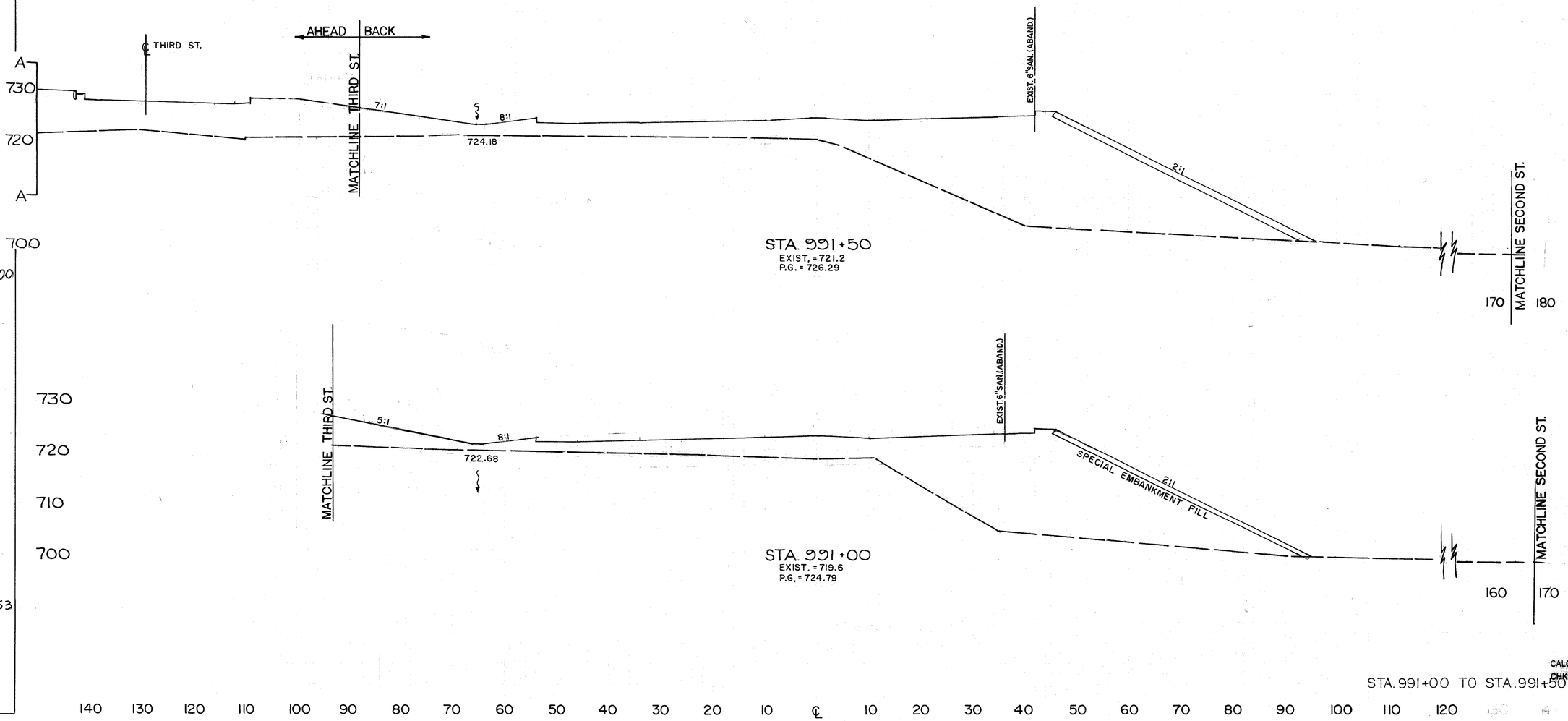
COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
258	1200
174	953

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		D	4506
		0	1373
		0	2554
		0	1372





CALC. BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-8-84

STA. 991+00 TO STA. 991+50

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
207	1189
203	1122
201	1275

END AREA		CU YDS.	
CUT	FILL	CUT	FILL
		0	7406
0	3952		
		0	7144
0	3774		
		0	6712
0	3486		

STA. 993+00
EXIST. = 708.6
P.G. = 730.79

LA
℄ RAMP O
4:1
2:1
726.0
VARIES
726.5
8:1
2:1
720
710
700
EXIST. 2"G
EXIST. 8"G
EXIST. 6" SAN. (ABAND.)
EXIST. 10"G
EXIST. 6"W
EXIST. WALL
EXIST. 2"G
EXIST. 6" SAN. (ABAND.)
190
200
MATCHLINE SECOND ST.

STA. 992+50
EXIST. = 707.6
P.G. = 729.29

LA
℄ RAMP O
4:1
2:1
727.5
VARIES
725.5
8:1
2:1
720
722.6
EXIST. WALL
710
700
EXIST. 6" SAN. (ABAND.)
EXIST. 10"G
EXIST. 6"W
EXIST. 2"G
EXIST. 2"G
EXIST. 6" SAN. (ABAND.)
180
190

A
BLDG.
LA
A
2:1
4:1
728.0
730
720
180
170
160
150

STA. 992+00
EXIST. = 708.2
P.G. = 727.79

A
℄ RAMP O
730
720
710
700
A
VARIES
724.5
8:1
EXIST. 6" SAN. (ABAND.)
2:1
SPECIAL EMBANKMENT FILL
170
180
MATCHLINE SECOND ST.

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 90 100 110 120 130 140

CALC. BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-8-84

STA. 992+00 TO STA. 993+00

FHWA REGION	STATE	PROJECT	
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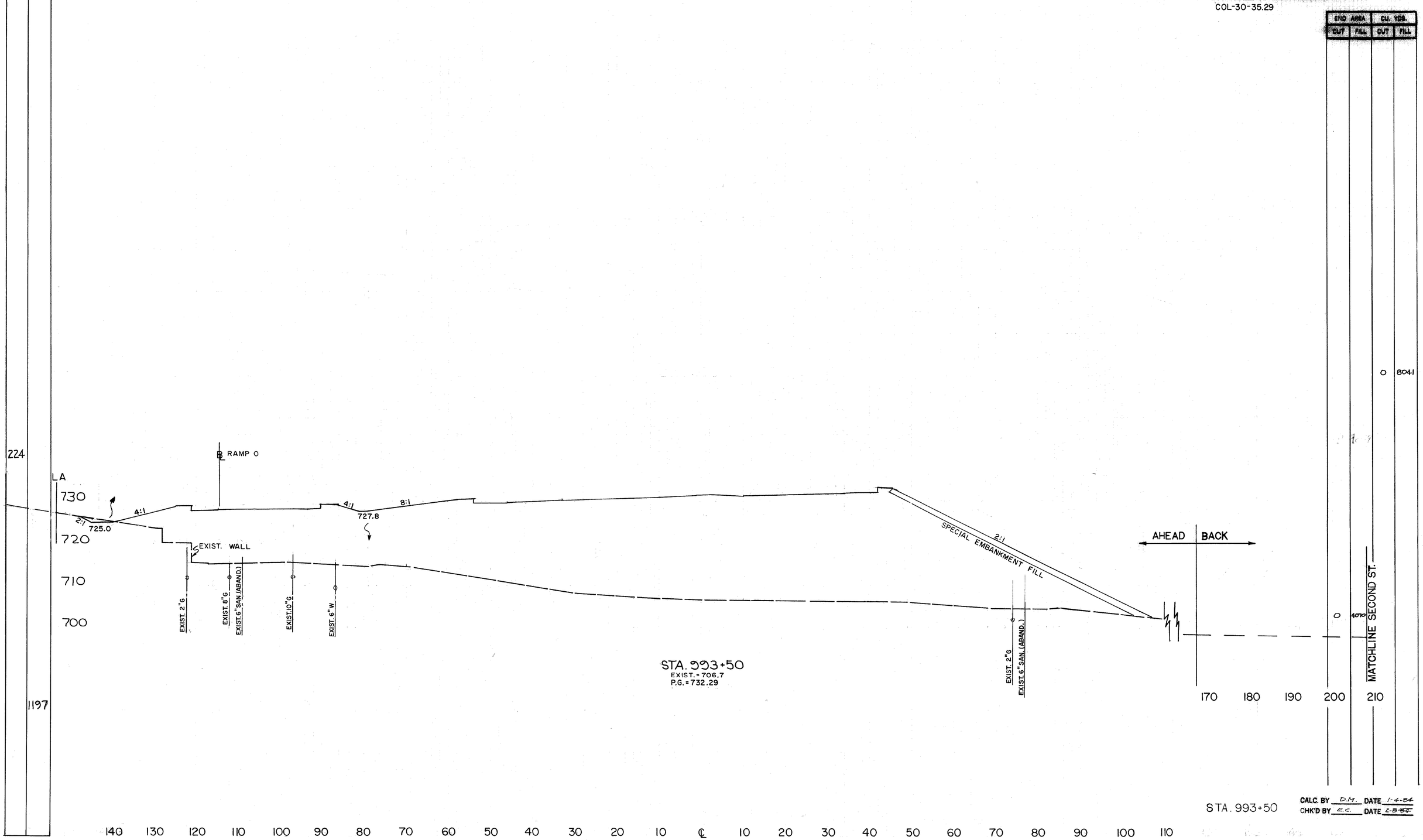
COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		0	8041



CALC. BY D.M. DATE 1-4-84
CHK'D BY E.C. DATE 2-8-84

FHWA REGION	STATE	PROJECT	
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COL-30-35.29

SPEEDING	
END AREA	CU. YDS.
246	
1368	
243	
1086	
148	
1033	

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		0	9779
0	5970		
		0	9689
0	4555		
		0	8475
0	4638		

MATCHLINE B-B

MATCHLINE A-A

MATCHLINE RAMP M

MATCHLINE SECOND ST.

RAMP 0

RAMP M

LA

730
720
710
700

2:1
4:1
VARIES
718.2 C.B.
723.0
724.5
732.0
730.2
728.5

EXIST. 4"G
EXIST. 2"G
EXIST. 8"G
EXIST. 10"G
EXIST. 6"W
EXIST. WALLS
EXIST. 6" SAN. (ABAND.)

STA. 995+00
EXIST. = 707.2
P.G. = 736.70

STA. 994+50
EXIST. = 707.5
P.G. = 735.28

STA. 994+00
EXIST. = 707.2
P.G. = 733.79

700
150
230
240

PROP. 15"S
EXIST. 6" SAN. (ABAND.)
PHASE I GRADING

SECTION AHEAD
℄ BACK
RAMP M BACK

PROP. 10" SAN.
EXIST. 4"G
EXIST. 6" SAN. (ABAND.)
PROP. 15"S

SPECIAL EMBANKMENT FILL

STA. 994+00 TO STA. 995+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

CALC. BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-7-84

SEEDING	
INCL.	LBS.
247	2208
274	1458
251	1381

VOL. NO.	STATE	PROJECT		140
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COL-30-35.29

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		0	12206
		0	5382
		0	10001
		0	5425
		0	9293
		0	4624

740 / 730 / 720 / 710 / 700

LA

RAMP O

4:1

2:1

725.0

PROP 24"S

EXIST. WALL

EXIST. 2"G

EXIST. 8"G

EXIST. 6"SAN. (ABAND.)

EXIST. 10"G

EXIST. 6"W

VARIES

PHASE I GRADING

3:1

RAMP M

MATCHLINE C-C

EXIST. 6"SAN. (ABAND.)

C / 700 / C

160 170 250 260

MATCHLINE SECOND ST.

STA. 996+50
EXIST. = 708.7
P.G. = 740.48

STA. 996+00
EXIST. = 709.8
P.G. = 739.30

STA. 995+50
EXIST. = 708.6
P.G. = 738.04

RAMP O

8:1

4:1

736.00

723.5

EXIST. 2"G

EXIST. 8"G

EXIST. 6"SAN. (ABAND.)

EXIST. 10"G

EXIST. 6"W

VARIES

PHASE I GRADING

RAMP M

3:1

2:1

B / 700 / B

165 250 260

MATCHLINE SECOND ST.

MATCHLINE B-B

EXIST. 6"SAN. (ABAND.)

RAMP O

4:1

4:1

734.0

722.2

3:1

2:1

EXIST. WALLS

EXIST. 2"G

EXIST. 8"G

EXIST. 6"G

EXIST. 10"G

EXIST. 6"W

SPECIAL EMBANKMENT FILL

VARIES

PHASE I GRADING

RAMP M

2:1

PROP. 15"S

EXIST. 6"SAN. (ABAND.)

MATCHLINE A-A

A / 700 / A

150 160 240 250

MATCHLINE SECOND ST.

PROP. 24"S

CALC. BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-9-84

STA. 995+50 TO STA. 996+50

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
0	83

END AREA		CUM. YDS.	
CUT	FILL	CUT	FILL
		0	6274
		5603	

740
730
720
710
700

RAMP O

LA

3:1

2:1

SPECIAL EMBANKMENT FILL

PHASE I GRADING

PROP. 24"S

EXIST. 2"G

EXIST. 8"G

EXIST. 6" SAN. (ABAND.)

EXIST. 10"G

EXIST. 6"W.

EXIST. 18"S

EXIST. 6" SAN. (ABAND.)

STA. 997+10.02 (END APPROACH SLAB)
EXIST. = 708.2
P.G. = 741.79
(SKEWED)

RAMP M

3:1

MATCHLINE A-A

A

700

A

MATCHLINE SECOND ST.

170 240 250

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

STA. 997+10.02

CALC. BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-9-84

FED. NO.	STATE	PROJECT	
5	OHIO	U-457 (14)	

142
362

COL-30-35,29

233

853

0

0

0

0

1858 5899

0

0

0

0

MATCHLINE BROADWAY STA.45+25

730
720
710
700
690

ZERO SEC.

STA.998+36.43 (SKEWED)
EXIST.=710.16
PG.=708.86

110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130

MATCHLINE B-B

B
700
B
140 150 160 170 180 190 200

MATCHLINE BROADWAY STA.48+50

A
700
A
165 175 185 195 205 215

MATCHLINE BROADWAY STA.48+50

MATCHLINE BROADWAY STA.45+00

730
720
710
700
690

ZERO SEC.

STA.997+70.53 (SKEWED)
EXIST.=710.46
PG.=710.84

110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

MATCHLINE A-A

STA.997+70.53 TO STA.998+36.43

FED. NO.	STATE	PROJECT	
5	OHIO	U-457 (14)	

143
362

COL-30-35,29

SEEDING	
END WIDTH	SQ. YDS.
196	1141
190	1419

RAMP O

LA

2:1

EXIST. WALL

TO C.B.
STA. 999+15
GRATE EL. = 718.83

EXIST. 4"G

EXIST. 8"W

EXIST. 8"G

PHASE I GRADING

VARIES

RAMP M

VARIES

740
730
720
710
700

STA. 999+50
EXIST. = 711.2
P.G. = 745.88

720
710
700

MATCHLINE B-B

150 160 170 180 190 200

B

B

MATCHLINE SECOND ST.

RAMP O

740
730
720
710
700

PARKING LOT

2:1

SPECIAL EMBANKMENT FILL

EXIST. 4"G

EXIST. 8"W

EXIST. 8"G

PHASE I GRADING

VARIES

CONCRETE SLOPE PROTECTION

RAMP M

2:1

MATCHLINE A-A

STA. 998+96.80 (BEGIN APPROACH SLAB)
EXIST. = 711.2
P.G. = 745.13
(SKEWED)

A

720
710
700

A

2:1

SPECIAL EMBANKMENT FILL

MATCHLINE SECOND ST.

140 150 160 170 180 190 200 210 220

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		210	11748
210	5783		
		1918	10855
1609	5228		

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140

STA. 998+96.80 TO STA. 999+50

CALC. BY D.M. DATE 1-5-84
CHK'D. BY E.C. DATE 2-9-84

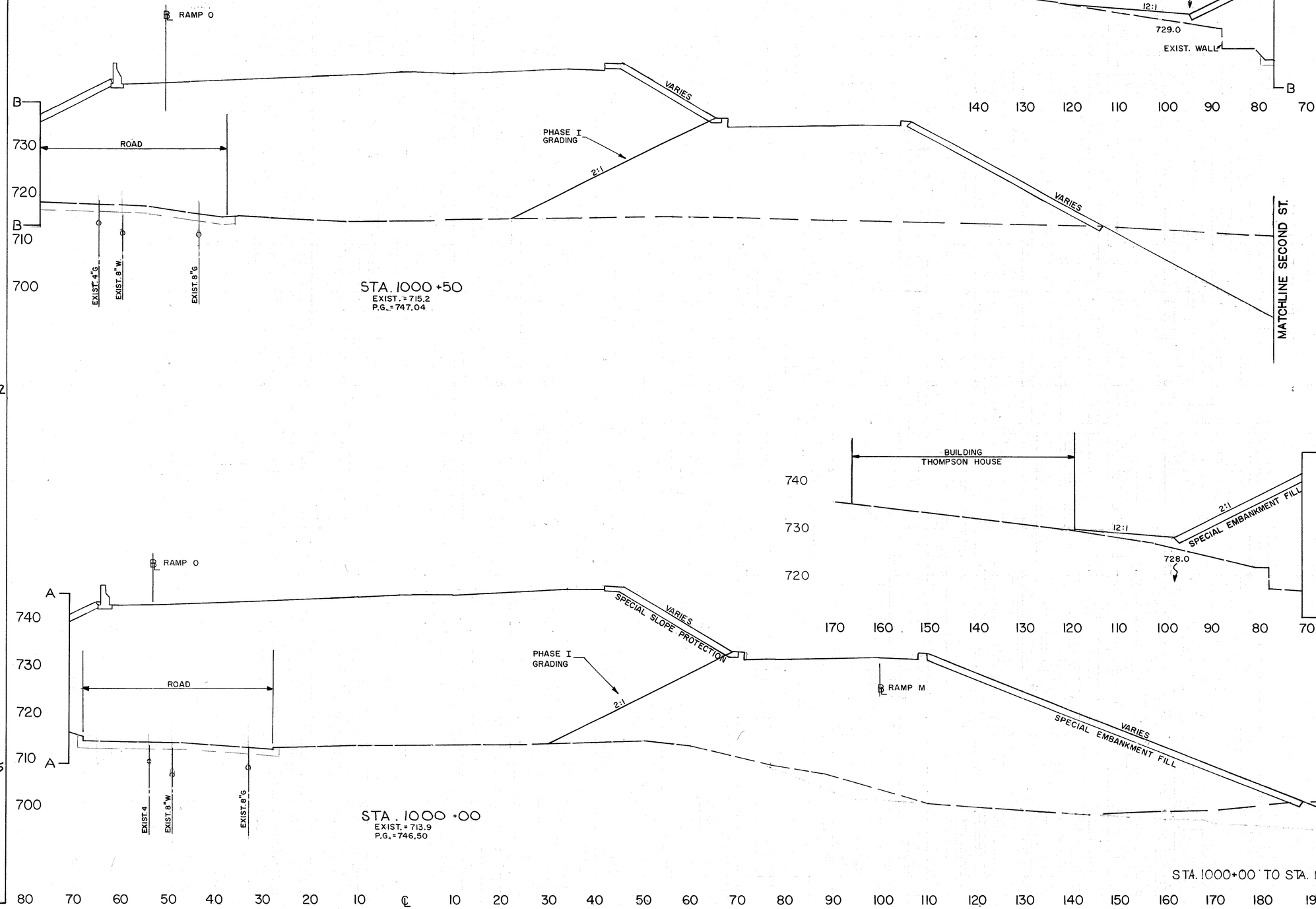
FED. NO.	STATE	PROJECT	
5	OH10	U-457(14)	

144
362

COL-30-35.29

8-3-71

SEEDING	
END WIDTH	SQ. YDS.
177	1022
191	1075



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		77	11342
2	5376		
3	11373		
1	6801		

CALC. BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-9-84

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

145
362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
175	919
156	925

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		0	1122.1
0	7525		
		73	1343
77	6776		

8-3-71

ALA

B RAMP O

B RAMP M

750
730
720
710

2:1

VARIES

1/2"/FT.

EXIST. 8"G

STA. 1001+50
EXIST. = 712.8
P.G. = 747.88

MATCHLINE SECOND ST.

TO C.B. AT 1001+75
TOP EL. = 726.7

L A

MATCH TO RELOC. 3RD. ST.

740
730
720

726.80

EXIST. 4"G

EXIST. 8"W

100 90 80

A RAMP O

A RAMP M

740
730
720
710
700

CONCRETE SLOPE PROTECTION

PHASE I GRADING

EXIST. 8"G

EXIST. 6"G

EXIST. 24"S

SPECIAL EMBANKMENT FILL

STA. 1001+00
EXIST. = 713.0
P.G. = 747.50

MATCHLINE SECOND ST

MATCH TO RELOC. 3RD. ST.

727.20

EXIST. 8"W

EXIST. 4"G

110 100 90 80 70

STA. 1001+00 TO STA. 1001+50

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

CALC. BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-9-84

FED. RD.	STATE	PROJECT	
5	OHIO	U-457(14)	

146
362

6-3-71

SLOPING

END WIDTH	CU. YDS.
214	
	1150
200	
	1042

750
740
730
720
710
700

B
B

VARIES
4:1
SPECIAL EMBANKMENT FILL
2:1

STA. 1002+50
EXIST. = 746.4
P.G. = 748.49

LA

MATCH TO RELOC. 3RD ST.

COL-30-35.29

B
740
730
720
B

VARIES
2:1
728.0
120 110 100 90 80 70
EXIST. 4"G
EXIST. 8"W

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		214	2003
0	1462		

LA
BLDG.

LA

MATCH TO RELOC. 3RD ST.

TO C.B. AT 1001+75
TOP EL. = 726.7

A
740
730
720
A

2:1
SPECIAL EMBANKMENT FILL
VARIES
727.0
110 100 90 80 70
EXIST. 4"G
EXIST. 8"W

0	5454		
0	4439		

MATCHLINE SECOND ST.

A
A

RAMP O
RAMP M
VARIES
CONCRETE SLOPE PROTECTION
3:1
2:1
SPECIAL EMBANKMENT FILL

STA. 1002+00
EXIST. = 732.0
P.G. = 748.19

LA

STA. 1002+00 TO STA. 1002+50

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

CALC BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-9-84

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

147
362

SEEDING

CU. YDS. CUT	CU. YDS. FILL
244	1372
1289	

8-3-71

STA. 1003+50
EXIST. = 750.0
P.G. = 749.09

STA. 1003+00
EXIST. = 750.0
P.G. = 748.79

CONCRETE SLOPE PROTECTION

RAMP M

VARIES

2:1

MATCHLINE RELOC. THIRD ST.

℄ TEMP. CONN.

12:1

2:1

730.0

EXIST. 4"G

EXIST. 8"W

COL-30-35.29

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		239	1337
188	724		
		392	1327
229	735		

688.0

MATCHLINE RELOC. THIRD ST. L/A

SPECIAL EMBANKMENT FILL

729.0

STA. 1003+00 TO STA. 1003+50

CALC. BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-9-84

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

148
362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
246	
	1375
249	
	1369

8-3-71

ALA

760
750
740
730
720

200 190 180 170 160 150 140 130 120 110 100 90 80 70

℄ RAMP M

LA

EXIST. 8" SAN. (ABAND.)

EXIST. 4"G

EXIST. 8"W

℄ TEMP. CONN.

2:1

733.5

3:1

6:1

B

B

750
740
730
720
710
700
690

B

B

EXIST. 33"S

PHASE I GRADING

2:1

2:1

STA. 1004+50
EXIST. = 750.2
P.G. = 749.69

R.R. R/W

750
740
730
720
710
700

A

A

PHASE I GRADING

℄ RAMP M

2:1

CONCRETE SLOPE PROTECTION

LA

℄ TEMP. CONN.

VARIES

2:1

2:1

731.0

EXIST. 4"G

EXIST. 8"W

EXIST. 08"

140 130 120 110 100 90 80 70 60

A

A

STA. 1004+00
EXIST. = 750.0
P.G. = 749.39

TO C.B. AT STA. 1004+32.3, 213' RT.

LA

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230

STA. 1004+00 TO STA. 1004+50

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
99	960		
		155	1504
68	748		

CALC. BY D.M. DATE 2-6-84
CHK'D BY E.C. DATE 2-10-84

30-39

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

149
362

COL-30-35.29

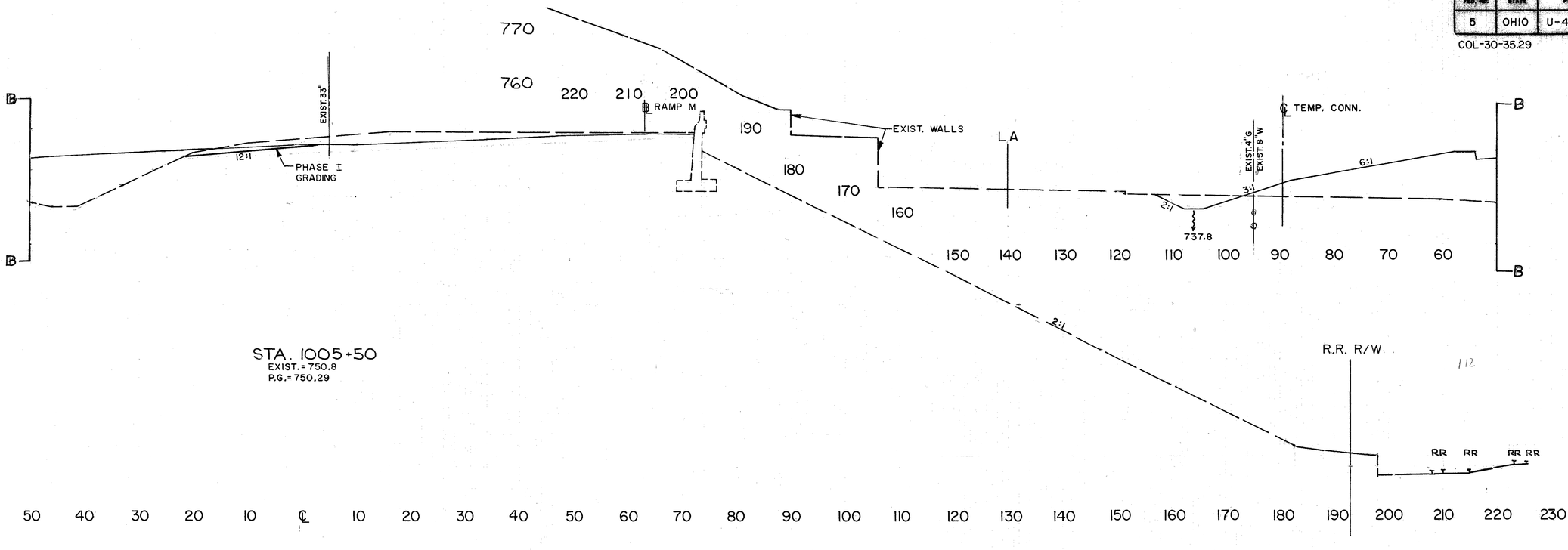
SEEDING	
END WIDTH	SQ. YDS.
135	681
110	989

8-4-71

LA

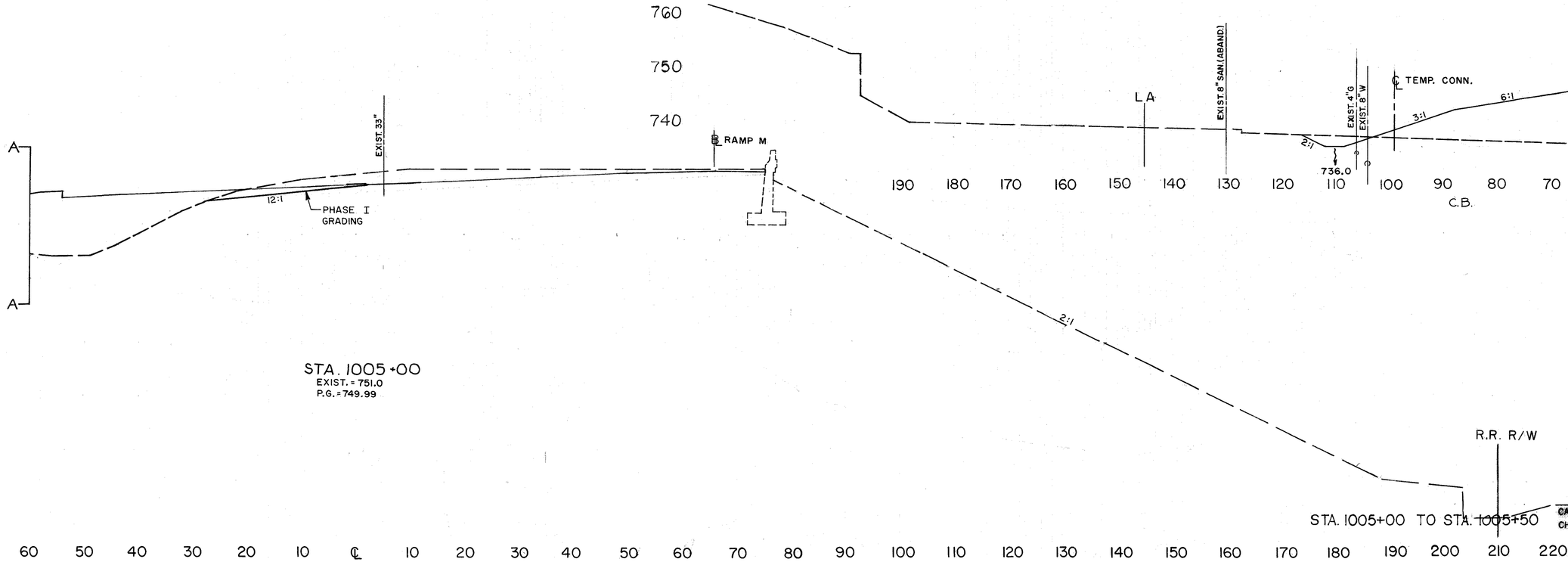
STA. 1005+50

EXIST. = 750.8
P.G. = 750.29



STA. 1005+00

EXIST. = 751.0
P.G. = 749.99



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		210	759
112	440		
		226	863
132	492		

STA. 1005+00 TO STA. 1005+50

CALC. BY D.M. DATE 1-6-82
CHK'D BY E.C. DATE 2-10-82

30-39

FED. RD.	STATE	PROJECT	
5	OHIO	U-457(14)	

150
362

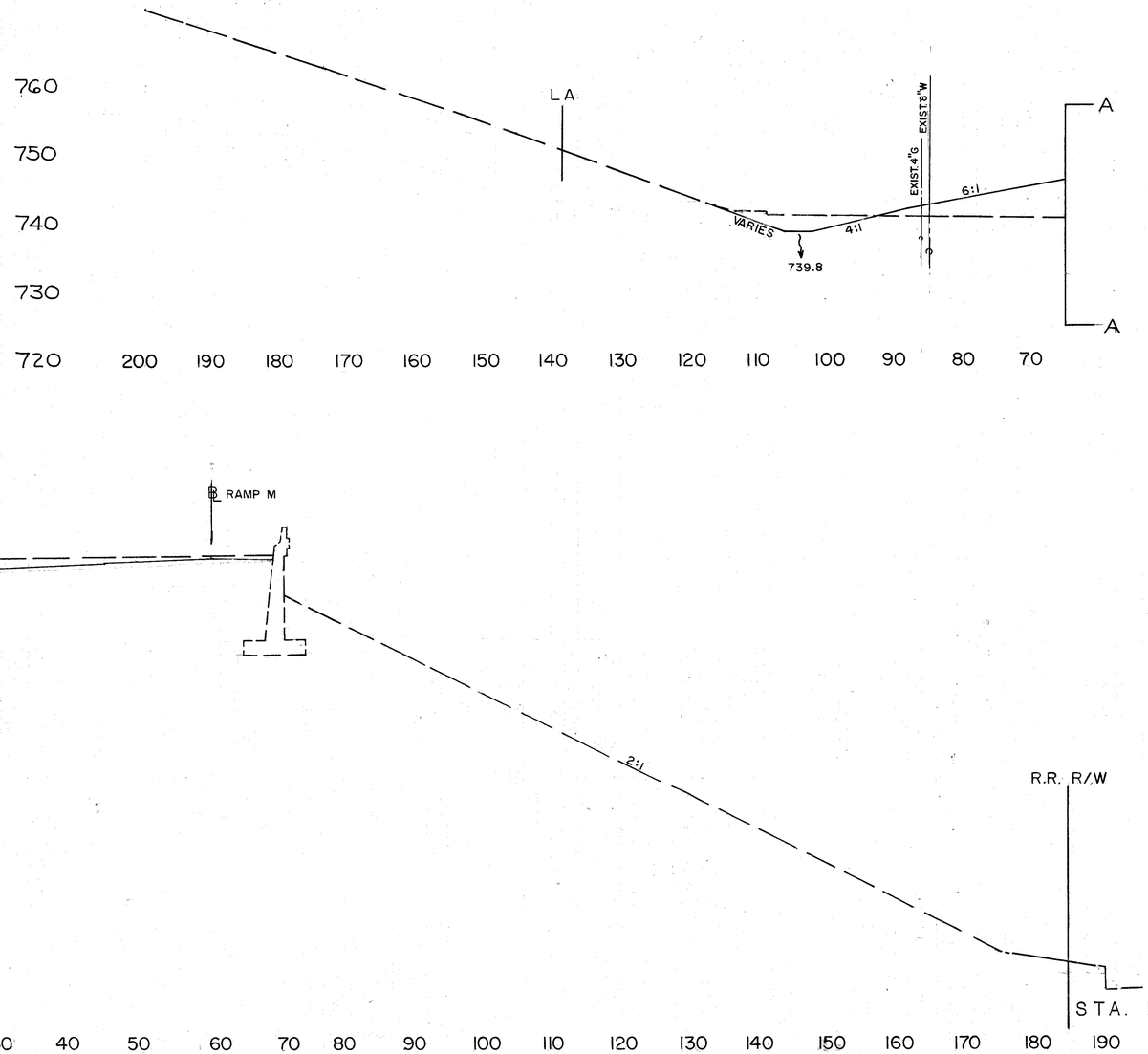
COL-30-35.29

SEEDING	
LINE WIDTH	SQ. YDS.
87	617

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		174	665
115	380		

P-4-71

ALA



CALC. BY D.M. DATE 1-5-84
CHK'D BY E.C. DATE 2-10-84

30-39

SEEDING	
END WIDTH	SQ. YDS.

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

151
362

COL-30-35.29

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		168	387
		73	338

7/24/71

84

475

760
750
720
710
700

A
A

℄ TEMP.

6:1

PHASE I GRADING

EXIST. 33"S

℄ RAMP M

STA. 1006+50
EXIST. = 746.8
P.G. = 750.89

2:1

L A

VARIES

6:1

A
740
A

130 120 110 100 90 80

R.R. R/W

RR RR RR RR

STA. 1006+50

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

CALC. BY D.M. DATE 1-6-84
CHK'D BY E.C. DATE 2-10-84

30-39

FED. NO.	STATE	PROJECT	
5	OHIO	U-457 (14)	

152
362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		119	217

7124171

78

450

740
730
720
710
700

A
A

6:1

℄ E. 3RD. EXT.

PHASE I GRADING

EXIST. 33"S

℄ RAMP M

STA. 1007+00
EXIST. = 746.8
P.G. = 751.19

2:1

LA

750
740

VARIES

744.0

6:1

A
A

130 120 110 100 90 80

R.R. R/W

RR RR RR RR
T T T T

STA. 1007+00

108 80

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

CALC. BY D.M. DATE 1-6-84
CHK'D BY E.C. DATE 2-10-84

30-39

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

153
362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
67	367
65	397

8-4-71

L/A
←120

4:1
4:1
745.5
PHASE I GRADING
EXIST. 30"S
℄

STA. 1008+00
EXIST. = 750.0
P.G. = 751.79

2:1
R.R. R/W
RR RR RR RR

L/A
←121

EXIST. 18"S
℄ E. 3RD. ST. EXT.
6:1
PHASE I GRADING
EXIST. 30"S
745.0

STA. 1007+50
EXIST. = 748.4
P.G. = 751.49

2:1
R.R. R/W
RR RR RR RR

STA. 1007+50 TO STA. 1008+00

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		91	115
9	111		
		28	24.5
21	154		

CALC. BY D.M. DATE 1-6-84
CHK'D BY E.C. DATE 2-10-84

30-89

SEEDING	
END WIDTH	SQ. YDS.

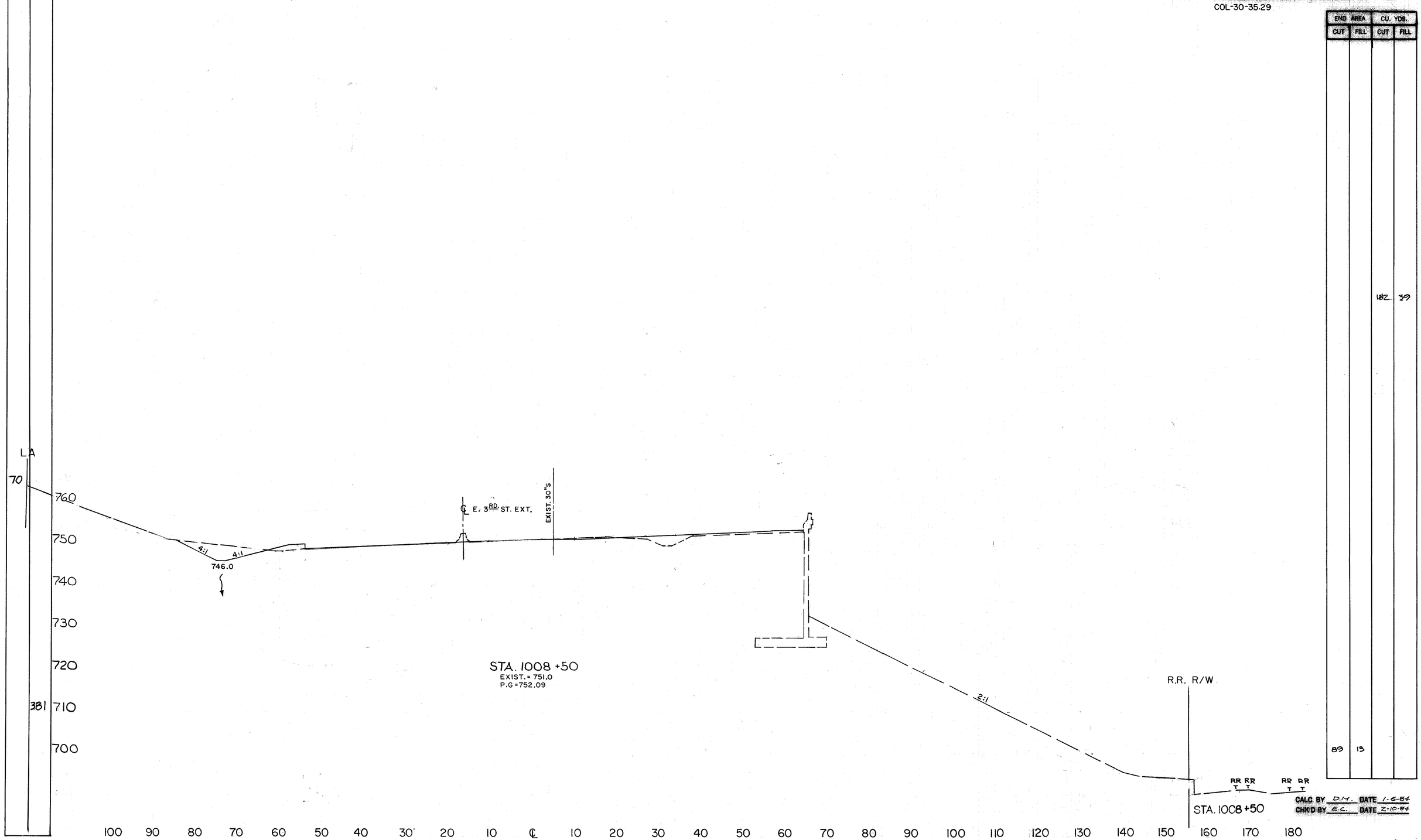
7/20/71

FED. NO.	STATE	PROJECT	
5	OHIO	U-457(14)	

154
362

COL-30-35.29

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		182	39
		89	13



CALC. BY D.N. DATE 1-6-84
CHK'D BY E.C. DATE 2-10-84

70-39

FED. RD.	STATE	PROJECT	
5	OHIO	U-457(14)	

155
362

COL-30-35,29

SEEDING	
END WIDTH	SQ. YDS.
72	394

END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
		219	56
		108	29

7-23-71

A

760
750
740
730
720
710
700

2:1
4:1
747.0

E. 3RD ST.
EXIST. 30"S

STA. 1009 +00
EXIST. = 751.6
P.G. = 752.39

R.R. R/W

RR RR RR RR

STA. 1009 +00

100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

CALC. BY D.M. DATE 1-6-84
CHK'D BY E.C. DATE 2-10-84

30-89

SEEDING	
END WIDTH	SQ. YDS.

REGION	STATE	PROJECT		156 / 362
5	OHIO	U-457(14)		

COL-30-35,29

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		384	29
123	31		

760
LA 116
62
750
748.0
740
730
720
710
372
700
690
680

℄ E. 3RD ST.

EXIST. 30"S

STA. 1009 +50
EXIST. = 752.2
P.G. = 752.69

R.R. R/W

RR RR RR RR

STA 1009+50

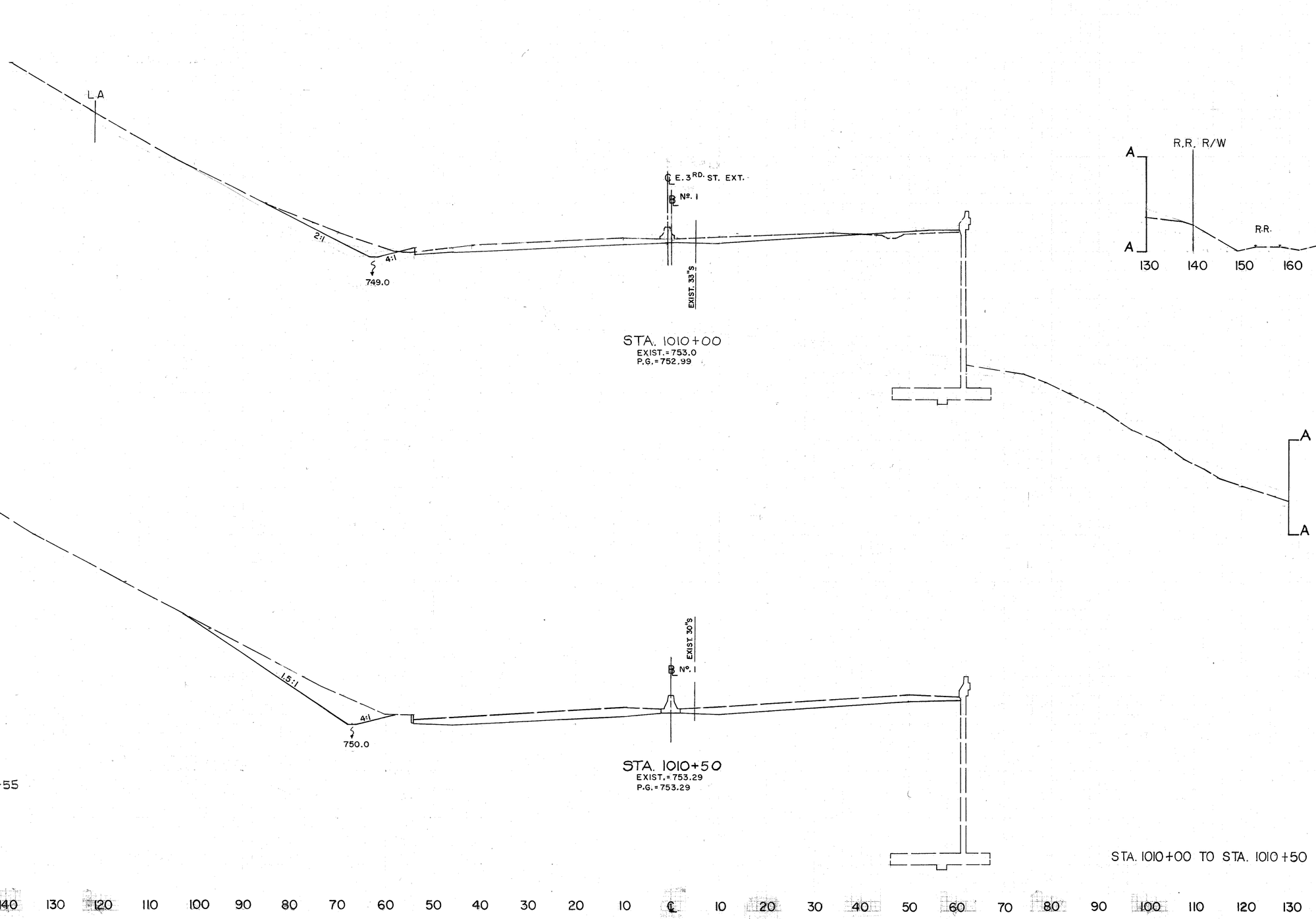
60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220

CALC. BY D.M. DATE 1-6-84
CHK'D BY E.C. DATE 2-10-84

FED. NO.	STATE	PROJECT		157
5	OHIO	U-457(14)		362

COL-30-35.29

SEEDING	
END WIDTH	SQ. YDS.
	483
112	
	519
75	
21	
0	



STA. 1010+00 TO STA. 1010+50

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
286	0		

CALC. BY D.M. DATE 1-9-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY E.H.C. DATE 12-13-84	5	OHIO	U-457 (14)	

158
362

COL-30-35.29

| | | |

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING
END SO. WITH TYP.

END AREA CU. YDS.
CUT FILL CUT FILL

L A — R/W — BLDG.
MATCHLINE ℄
EXIST. G'SAN
EXIST. W.M.
EXIST. G.L.
STA. 15+00
P.G. 699.97
EXIST. 700.26
12 — 705 — 700 — 4:1 — 67
21 — 83

L A — R/W
MEET EXIST.
STA. 14+50
P.G. 700.17
EXIST. 700.60
12 — 705 — 700 — 4:1 — 67
142 — 76

MEET EXIST. — R/W
STA. 14+24
P.G. 700.27
EXIST. 700.77
℄ DRIVE RT.
700
148

L A — R/W — BLDG.
STA. 14+00
P.G. 700.37
EXIST. 700.63
12 — 705 — 700 — 4:1 — 67
84

L A — R/W
MEET EXIST
STA. 13+50
P.G. 700.57
EXIST. 700.97
12 — 705 — 700 — 4:1 — 67
142 — 69

119

52

110

L A — R/W
MEET EXIST
EXIST. G'SAN
EXIST. W.M.
EXIST. G.L.
MATCHLINE ℄
STA. 13+00
P.G. 700.77
EXIST. 701.18
12 — 705 — 700 — 75

700

STA. 12+84
PG=700.83
EXIST=701.09
℄ ALLEY RT.

STA. 13+00 TO STA. 15+00 W. SECOND ST.

40 — 30 — 20 — 10 — ℄ — 10 — 20 — 30 — 40

CALC. BY D.M. DATE 1-9-84
CHK'D. BY E.H.C. DATE 2-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL-30-35.29

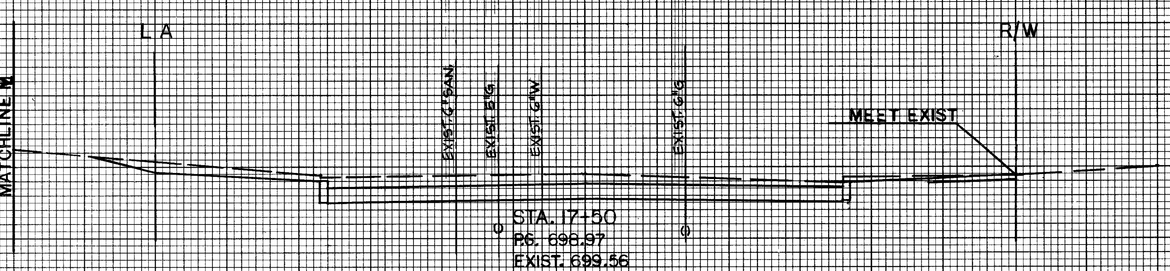
159
362

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

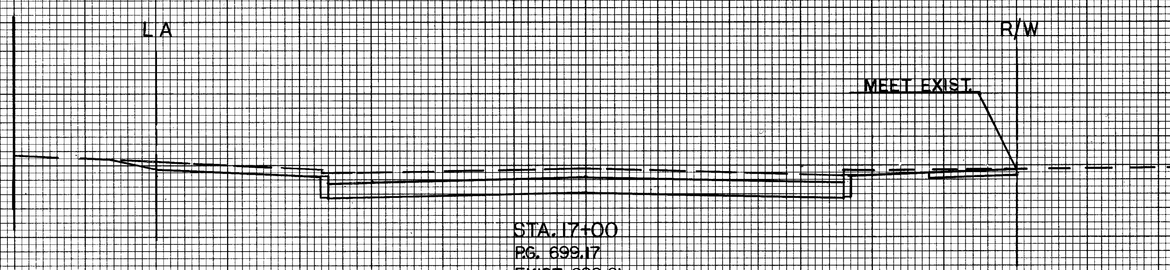
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SEEDING AND MULCH	SQ YDS

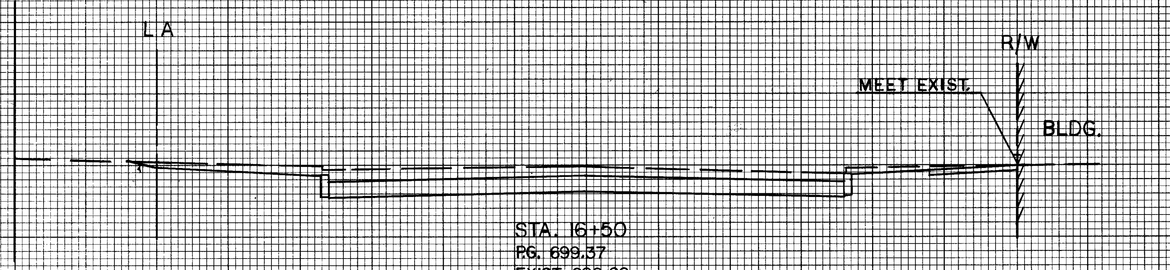
END AREA	CU. YDS.	
CUT	FILL	CUT FILL



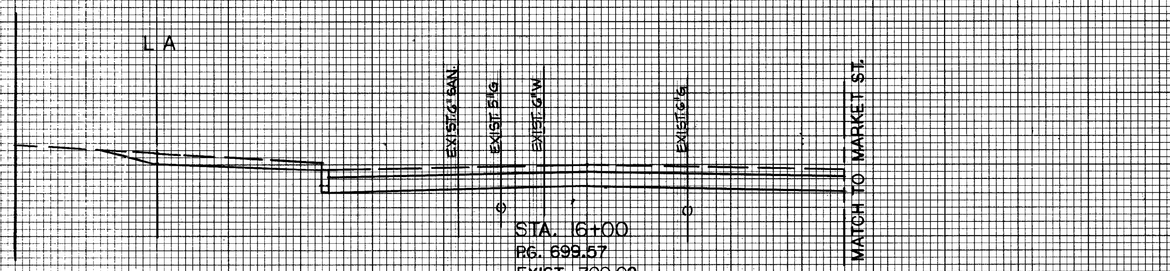
STA. 17+50
P.G. 698.97
EXIST. 699.56



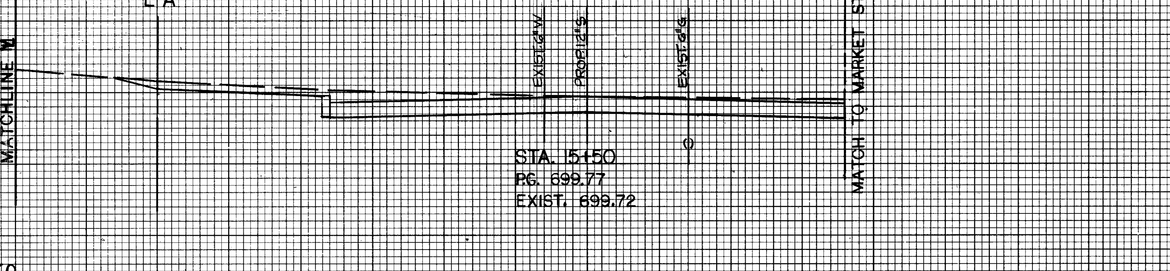
STA. 17+00
P.G. 699.17
EXIST. 699.81



STA. 16+50
P.G. 699.37
EXIST. 699.99



STA. 16+00
P.G. 699.57
EXIST. 700.02



STA. 15+50
P.G. 699.77
EXIST. 699.72

STA. 15+50 TO STA. 17+50 SECOND ST.

37	4	143	
12		75	
67		142	
12		78	
67		146	
12		80	
67		131	
12		62	
67		112	
12		59	
67			

40 30 20 10 ℄ 10 20 30 40

CALC. BY D.M. DATE 1-9-84
CHK'D. BY E.H.C. DATE 2-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL-30-35.29

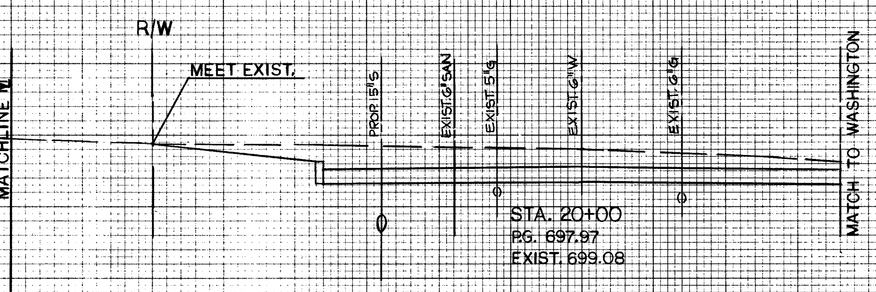
160
362

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

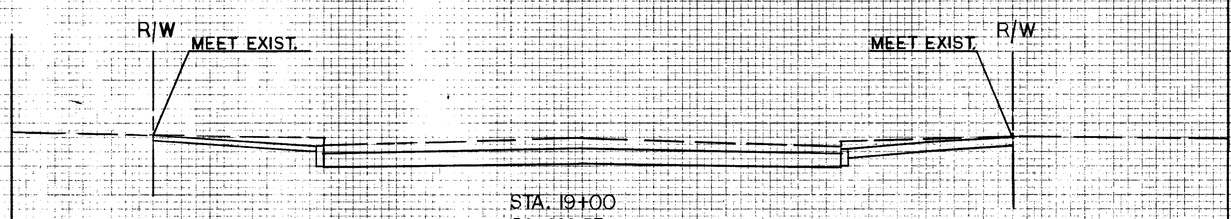
SODDING	
END WIDTH	SQ. YDS
12.	33
0	0
0	0
0	0
0	0

END AREA		CU YDS.	
CUT	FILL	CUT	FILL
			171
90			
			149
71			
			143
83			
			144
73			
			141
79			

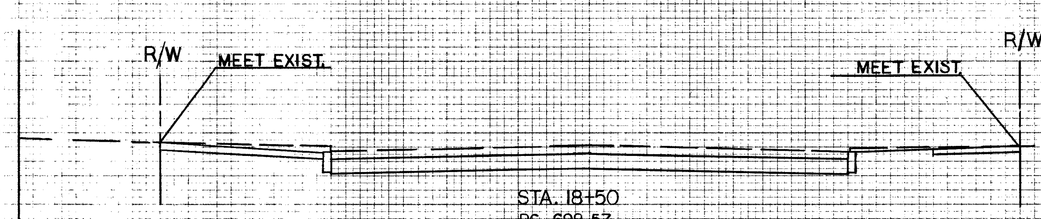


STA. 20+00
P.G. 697.97
EXIST. 699.08

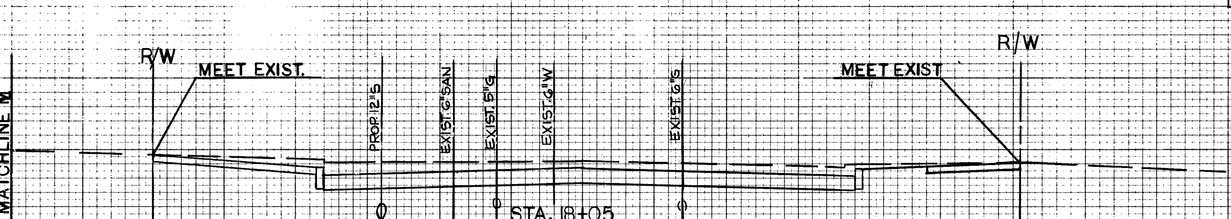
STA. 19+50
P.G. 698.17
EXIST. 698.68



STA. 19+00
P.G. 698.37
EXIST. 699.00



STA. 18+50
P.G. 698.57
EXIST. 699.16



STA. 18+05
P.G. 698.77
EXIST. 699.

STA. 17+
PG=698.81
EXIST=699.32
℄ ALLEY RT.

SECOND ST.
STA. 18+00 TO STA. 20+00

30 20 10 ℄ 10 20 30 40

CALC. BY DM DATE 1-9-84
CHK'D BY E.H.C. DATE 2-13-84

FHWA REGION	STATE	PROJECT
5	OHIO	U-457(14)

COL-30-35.29

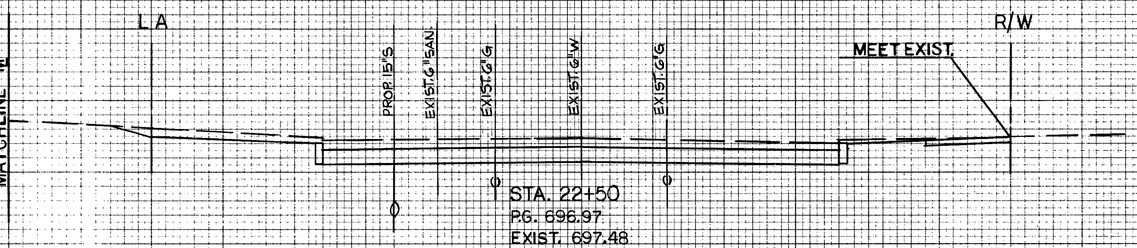
161
362

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

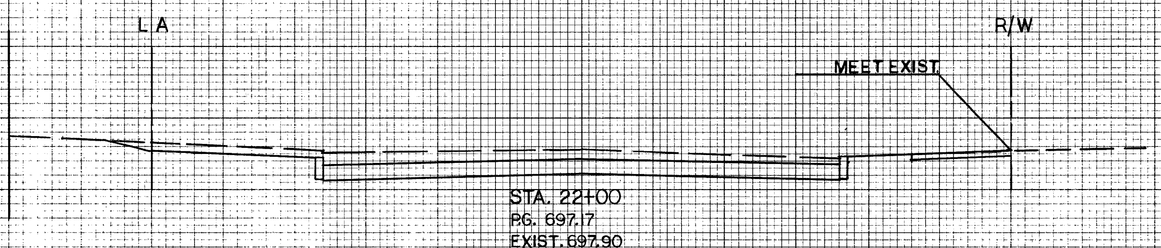
SODDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL



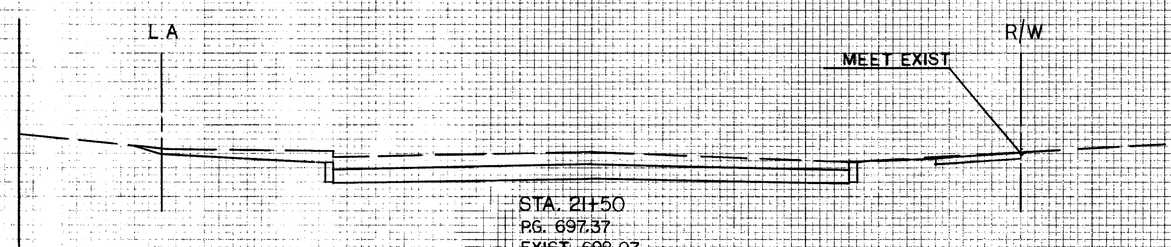
STA. 22+50
P.G. 696.97
EXIST. 697.48

133
74



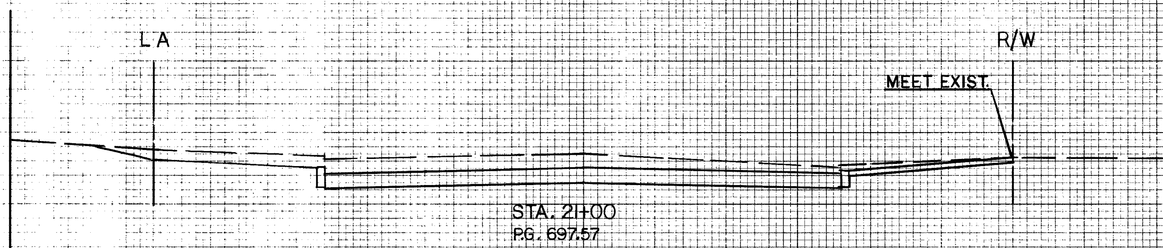
STA. 22+00
P.G. 697.17
EXIST. 697.90

138
75



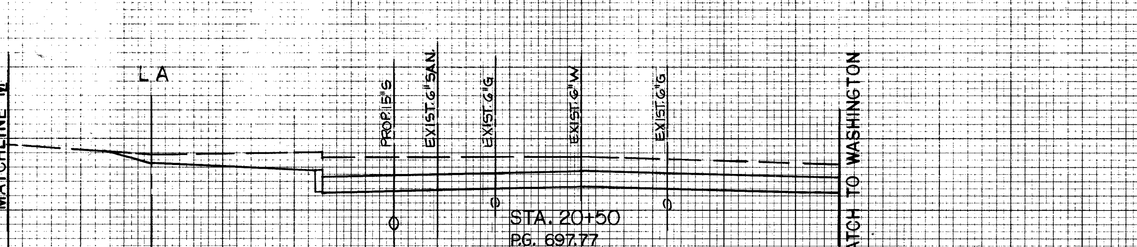
STA. 21+50
P.G. 697.37
EXIST. 698.07

144
80



STA. 21+00
P.G. 697.57
EXIST. 698.52

156
88



STA. 20+50
P.G. 697.77
EXIST. 698.72

169
95

STA. 20+50 TO STA. 22+50 SECOND ST.

30 20 10 ℄ 10 20 30 40

CALC. BY D.M. DATE 1-9-84
CHK'D. BY E.H.C. DATE 2-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL-30-35.29

162
362

CALC. BY D.M. DATE 1-9-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY E.H.C. DATE 2-13-84	5	OHIO	U-457(14)	

COL-30-35.29

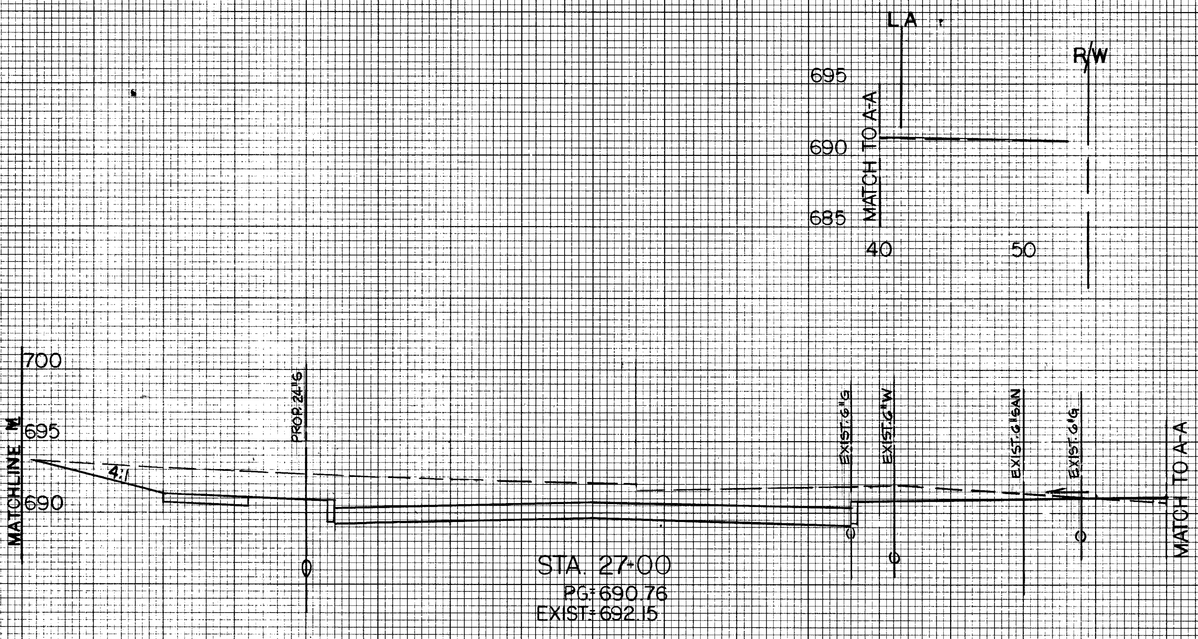
| END AREA CU. YDS. | | |

ORIGINAL SURVEY		B.	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

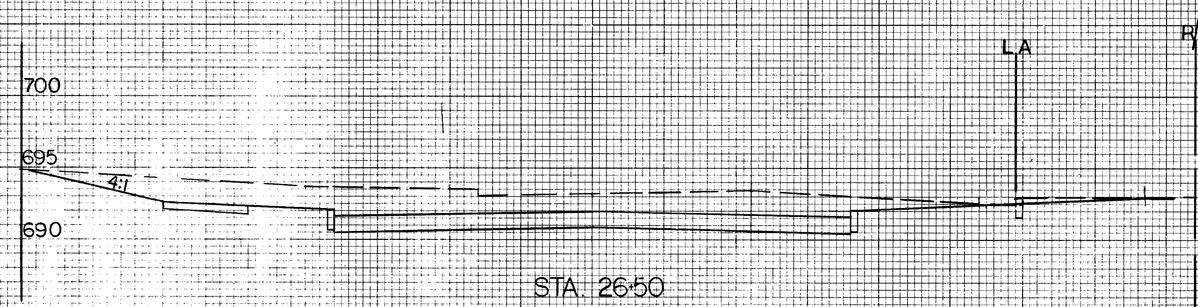
FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING	
ENG WIDTH	SQ. YDS
211	
46	
222	
27	
169	
27	
81	
22	
122	
22	
75	

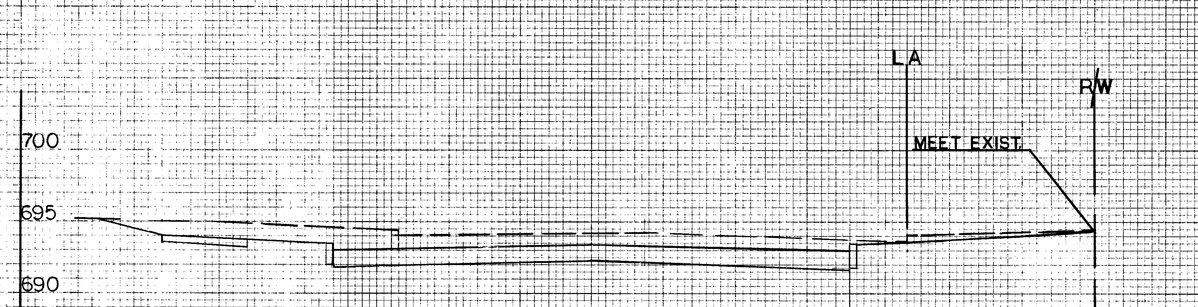
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		231	
		143	
		254	
		131	
		212	
		98	
		149	
		63	
		146	
		95	



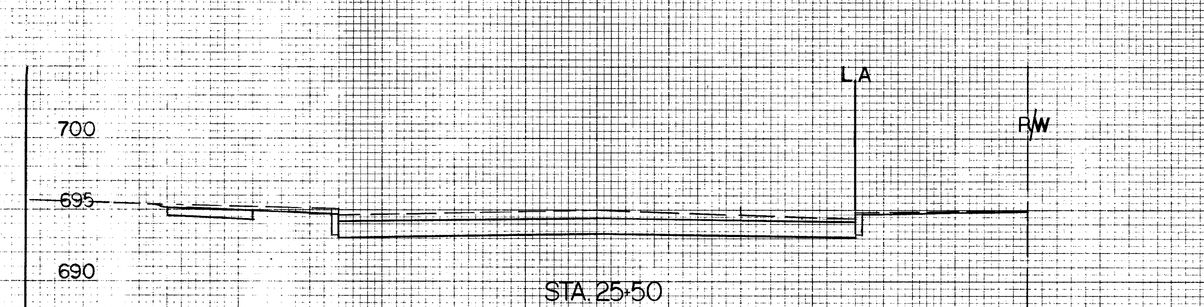
STA. 27+00
P.G.=690.76
EXIST.=692.15



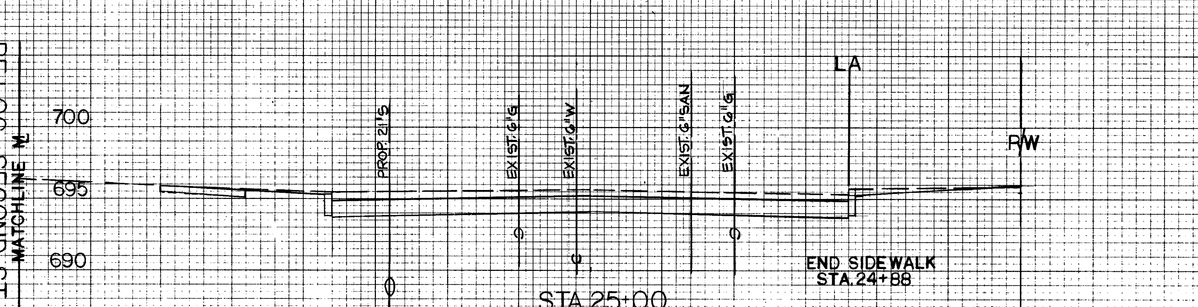
STA. 26+50
P.G.=691.98
EXIST.=693.05



STA. 26+00
P.G.=693.43
EXIST.=693.95



STA. 25+50
P.G.=694.55
EXIST.=695.00



STA. 25+00
P.G.=695.28
EXIST.=695.73

RE-LOC. SECOND ST.
STA. 25+00 TO STA. 27+00

40 30 20 10 ℄ 10 20 30 40

COL-30-35.29

CALC. BY D.M. DATE 1-9-84
CHK'D BY E.H.C. DATE 2-15-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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CALC. BY D.M.	DATE 1-9-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY E.H.C.	DATE 2-13-84	5	OHIO	U-457(14)	

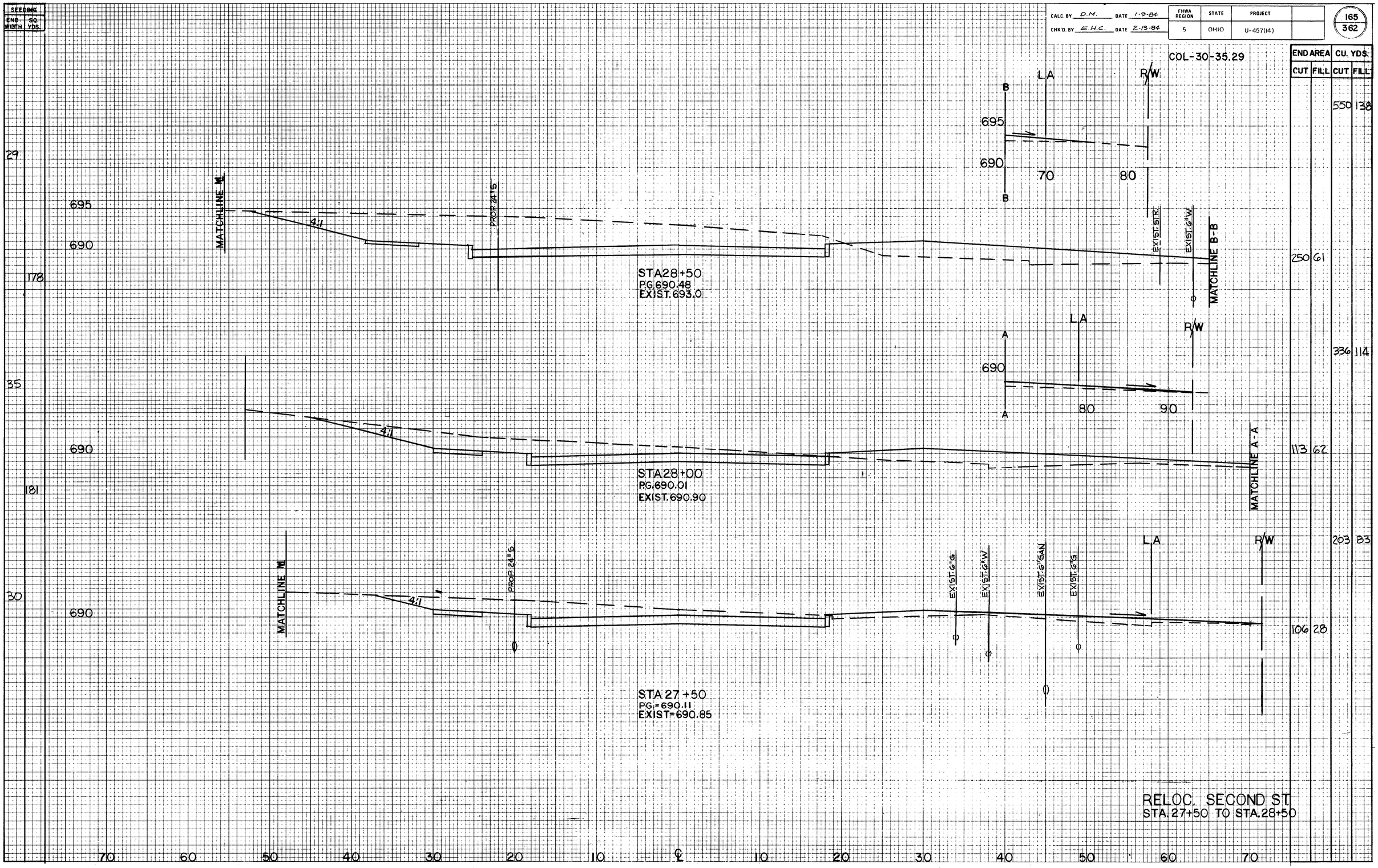
SEEDING	
END WIDTH	SQ. YDS.
29	178
35	181
30	180

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK, PAGE NO.		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK, PAGE NO.		
AREAS CHECKED		

COL-30-35.29

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		550	138
250	61		
		336	114
113	62		
203	83		
106	28		



RELOC. SECOND ST.
STA. 27+50 TO STA. 28+50

CALC. BY	D.M.	DATE	1-10-84
CHK'D. BY	E.H.C.	DATE	2-14-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

SODDING
END SQ
WIDTH YDS

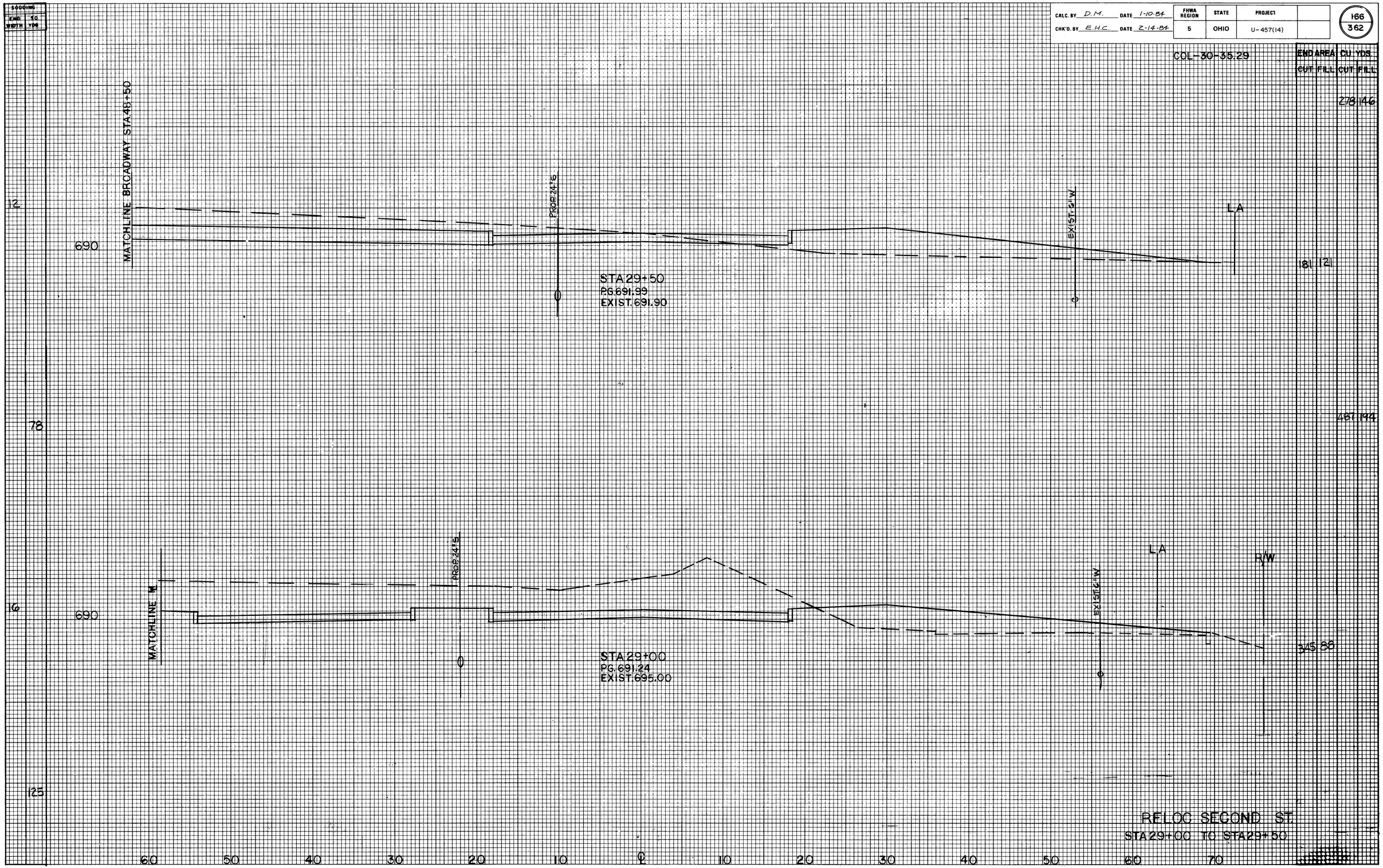
FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK, NO., BY, DATE

COL-30-35.29

END AREA CU YDS

CUT	FILL	CUT	FILL
		278	146
181	12		
		481	144
		345	88



RELOC SECOND ST.
STA 29+00 TO STA 29+50

CALC. BY D.M.	DATE 1-10-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY E.H.C.	DATE 2-13-84	5	OHIO	U-457(14)	

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COL-30-35.29

END AREA CUT YDS.		644	774	775	1568	1181	
CUT	FILL	536	300	527	1156	1191	37

EXIST LA

STA. 32+00
PG=691.92
EXIST=696.25

2:1

MATCH TO MAINLINE

EXIST LA

BUILDING TO REMAIN

STA. 31+50
PG=693.04
EXIST=695.30

MATCH TO MAINLINE

LA

STA. 31+00
PG=693.54
EXIST=702.00

MATCH TO MAINLINE

STA. 30+50
PG=693.42
EXIST=713.20

4:1

MATCH TO A-A

PROFILE B

STA. 30+00
PG=692.74
EXIST=692.25

MATCHLINE B-B

RELO. SECOND ST.
STA. 30+00 TO STA. 32+00

SCRIBING	
SEC	TIC
WIDTH	TIE

103	142	164	142	86			
20	22	24	27	32	19		

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

CALC. BY D.M. DATE 1-3-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY E.H.C. DATE 2-14-84	5	OHIO	U-457(14)	

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COL-30-35.29

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

ENGAREA QU. YDS
CUT FILL CUT FILL
5 150
2 94
2 133
3 82
1 0
0 36
0 80
244 0
158 0
103 0
160 7

MATCHLINE RIVER RD.

EXIST. BANK

HEADER CURB

STA.34+13.32
PG.689.78
EXIST.687.90

HEADER CURB

BY OTHERS

RESUME WORK STA.33+89.67
PG.689.59
EXIST.689.00

STA.33+74.54 ZERO SEG. LT.

STA.33+62.56 ZERO SEG. RT.

SUSPEND WORK STA.33+52.48

STA.33+28.85
PG=689.00
EXIST.=688.5

EXIST. R/W

MATCH TO MAINLINE

PROP 21"S

EXIST 6"W

STA.33+00
PG=689.09
EXIST.=690.0

EXIST. R/W

MATCH TO MAINLINE

PROP 24"S

EXIST 6"S

EXIST 15"STM

STA.32+50
PG=690.24
EXIST.=692.0

RELO. SECOND
STA. 32+50
TO
STA. 34+13.32

ENDAREA CU.YDS.	
CUT	FILL
CUT	FILL

CALC. BY D.M.	DATE 1-10-84
CHK'D. BY E.H.C.	DATE 2-14-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

FINAL SURVEY	SURVEYED
	PLOTTED
	COMPUTATE
NOTE BOOK	AREAS
NO.	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED
	PLOTTED
	COMPUTATE
NOTE BOOK	AREAS
NO.	AREAS CHECKED

BY	DATE

STA.36+20
PG.684.0
EXIST 684.0

STA.35+81.15
PG.684.33
EXIST-684.33

STA.35+50
PG.684.87
EXIST-684.63

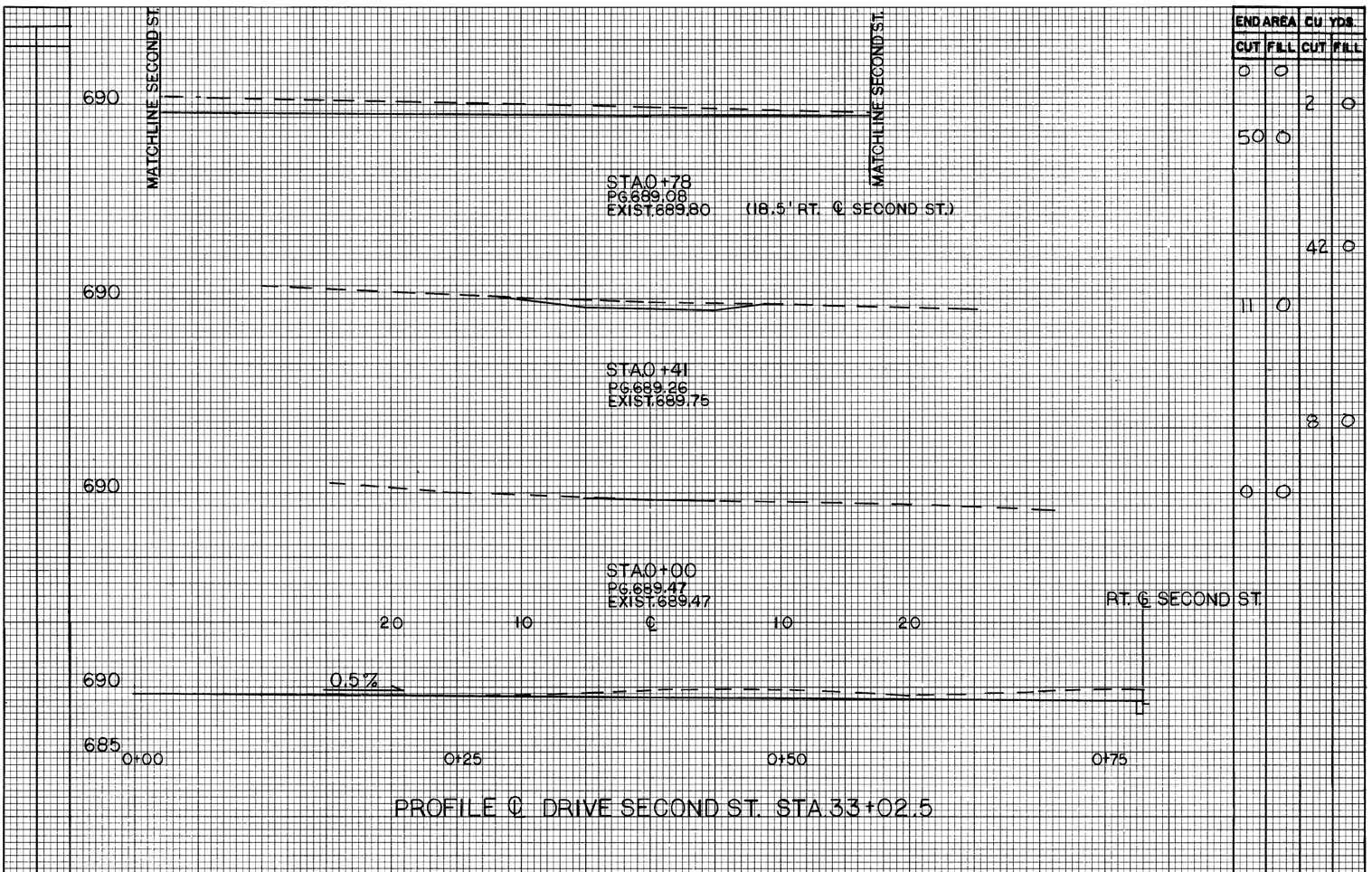
STA.35+00
PG.686.8
EXIST-685.43

STA.34+50
PG.688.96
EXIST-687.12

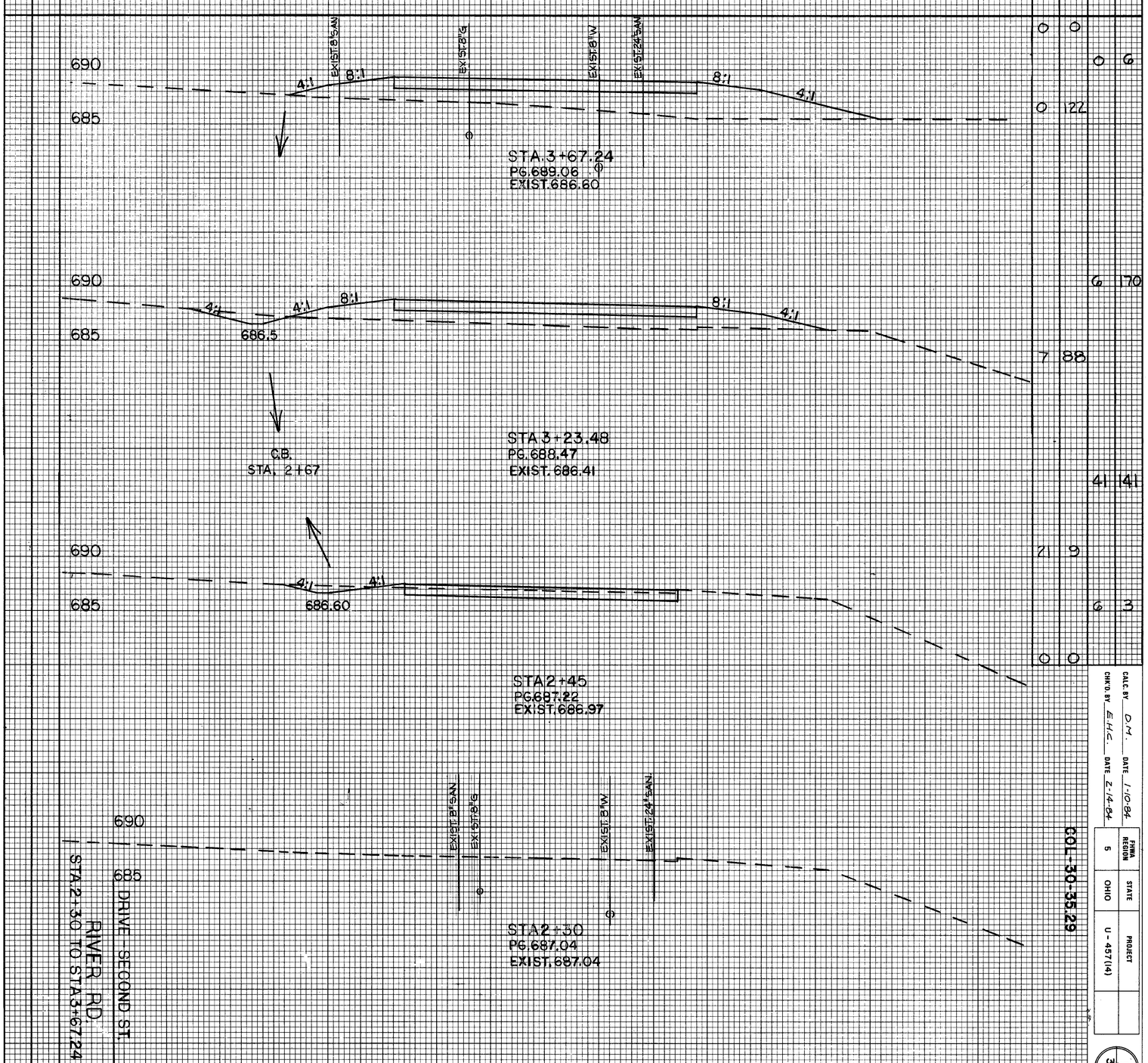
RELOC. SECOND ST.
STA34+50 TO STA36+20

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



PROFILE ℄ DRIVE SECOND ST. STA. 33+02.5



END AREA		CU YDS.	
CUT	FILL	CUT	FILL
0	0		
		2	0
50	0		
		42	0
11	0		
		8	0
0	0		
0	0		
		0	6
0	12		
		6	170
7	88		
		41	141
21	9		
		6	3
0	0		

CALC. BY D.M. DATE 1-10-84
CHK'D. BY E.H.C. DATE 2-14-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL-30-35.29

CALC. BY	D.M.	DATE	1-10-84
CHK'D. BY	E.H.C.	DATE	2-14-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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END AREA QU. YDS.	
CUT	
FILL	

CUT	FILL

FINAL SURVEY	BY	DATE
NOTE BOOK NO.	SURVEYED	
	PLOTTED	
	TRIANGULATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK NO.	SURVEYED	
	PLOTTED	
	TRIANGULATE	
	AREAS	
	AREAS CHECKED	

CODING	
END	SQ.
MOUTH	YDS.

COL-30-35.29

MATCH TO JACKSON ST.
STA.50+25

MATCH TO JACKSON ST.
STA.50+25

EXIST.10"W

EXIST.10"G

EXIST.10"W

EXIST.10"G

STA.10+75
P.C.=738.65
EXIST.=738.00

STA.10+50
P.C.=738.10
EXIST.=737.46

EXIST.6"SAN

EXIST.8"G

EXIST.6"G

MEET EXIST.

MEET EXIST.

R/W

R/W

740

735

740

735

THIRD ST.
STA10+50 TO STA10+75

CALC. BY	D.M.	DATE	1-10-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY	E.H.C.	DATE	2-14-84	5	OHIO	U-457(14)	

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COL-30-35.29

END AREA	CU. YDS.
CUT	
FILL	
CUT	
FILL	

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

STA 12+00
PG=740.25
EXIST=739.91

STA 11+75
PG=739.94
EXIST=739.64

STA 11+50
PG=739.63
EXIST=739.35

STA 11+25
PG=739.32
EXIST=739.09

STA 11+00
PG=739.01
EXIST=738.56

MATCHLINE M

EXIST. 10"W

EXIST. 8"G

EXIST. 6"SAN.

MEET EXIST.

R/W

BLDG.

THIRD ST.
STA 11+00 TO STA 12+00

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD

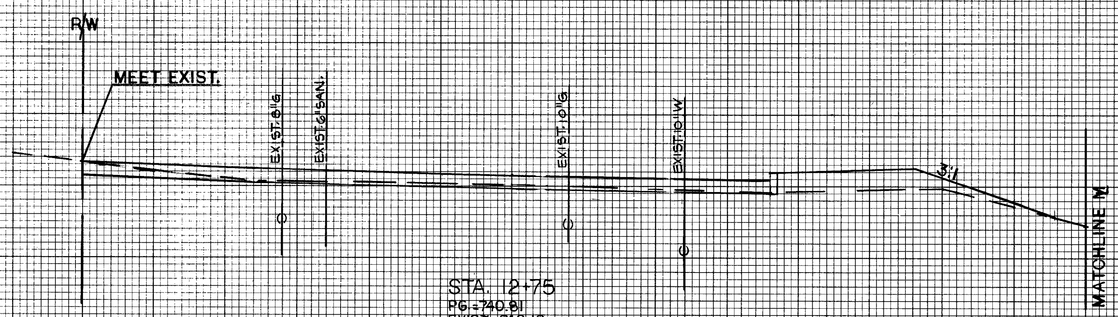
EUGENE DIETZGEN CO.

ORIGINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

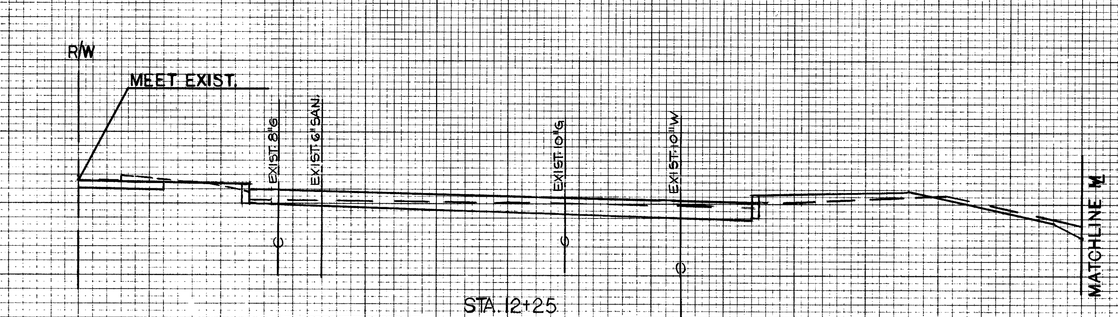
SODDING	
ENG. STA.	SQ. YDS.
8+10	
28+29	

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		3	14
		6	54
		10	43
		15	38
		24	30
		36	27



STA. 12+75
PG = 740.81
EXIST = 740.10

STA. 12+50
PG = 740.78
EXIST. = 740.16



STA. 12+25
PG. = 740.56
EXIST. = 740.03

THIRD ST.
STA. 12+25 TO STA. 12+75

740

30 20 10 ℄ 10 20 30 40

CALC BY D.M. DATE 1-10-84
CHK'D BY E.H.G. DATE 2-14-84

COL-30-35.29

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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CALC. BY	D.M.	DATE	1-10-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY	E.H.C.	DATE	2-14-84	5	OHIO	U-457(14)	

COL-30-35.29

| | | |

CALC. BY	D.M.	DATE	1-11-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY	E.H.C.	DATE	2-15-84	5	OHIO	U - 457(14)	

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COL-30-35.29

END AREA CU. YDS.			
CUT	FILL	CUT	FILL
5	65		
		2	60
		13	45
		21	33
3	65		
		2	65
		27	33
		19	38

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

TOTALS
END
WIDTH
SQ.
MILE

MATCHLINE M

EXIST 10"W

STA. 14+50
PG.=736.69
EXIST.=735.54

EXIST 6"GAL

EXIST 8"S

MEET EXIST.

RW

BLDG.

STA. 14+25
PG.=737.53
EXIST.=736.49

EXIST. WALL

STA. 14+00
PG.=738.32
EXIST=737.51

STA. 13+84
PG.=738.60
EXIST=738.10
STEPS LT.

STA. 13+75
PG.=739.11
EXIST=738.41

EXIST 8"S

EXIST 6"SAN

EXIST WALL

740
735
30
20
10
0

THIRD ST.
STA. 13+75 TO STA. 14+50

CALC. BY	D.M.	DATE	1-11-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY	E.H.C.	DATE	2-15-84	5	OHIO	U-457(14)	

176
362

COL-30-35.29

| | | |

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SCORING	
END WIDTH	SQ YDS

ENDAREA CU. YDS.			
CUT	FILL	CUT	FILL
		88	3
91	5		
		46	27
9	53		
		23	44
40	42		
		31	42
28	48		
		27	63
31	89		

STA. 16+75
PG=732.69
EXIST=733.52

STA. 16+50
PG=732.56
EXIST=733.10

STA. 16+25
PG=732.44
EXIST=732.66

STA. 16+00
PG=732.31
EXIST=732.12

STA. 15+75
PG=732.21
EXIST=732.17

R/W
EXIST. WALL
EXIST. 8"G
EXIST. 8"SAN.
EXIST. 10"G
EXIST. 10"W
MATCHLINE E-E
MATCHLINE D-D
MATCHLINE C-C
MATCHLINE B-B
MATCHLINE A-A
MATCHLINE MARKET ST.
MATCHLINE MARKET ST.
THIRD ST.
STA. 15+75 TO STA. 16+75
3.4:1
3.5:1
3:1
730
735
740

CALC BY D.M. DATE 1/1/84
CHK'D BY E.H.S. DATE 2/15/84

FHWA REGION	STATE	PROJECT
5	OHIO	U-457(14)

COL-30-35.82

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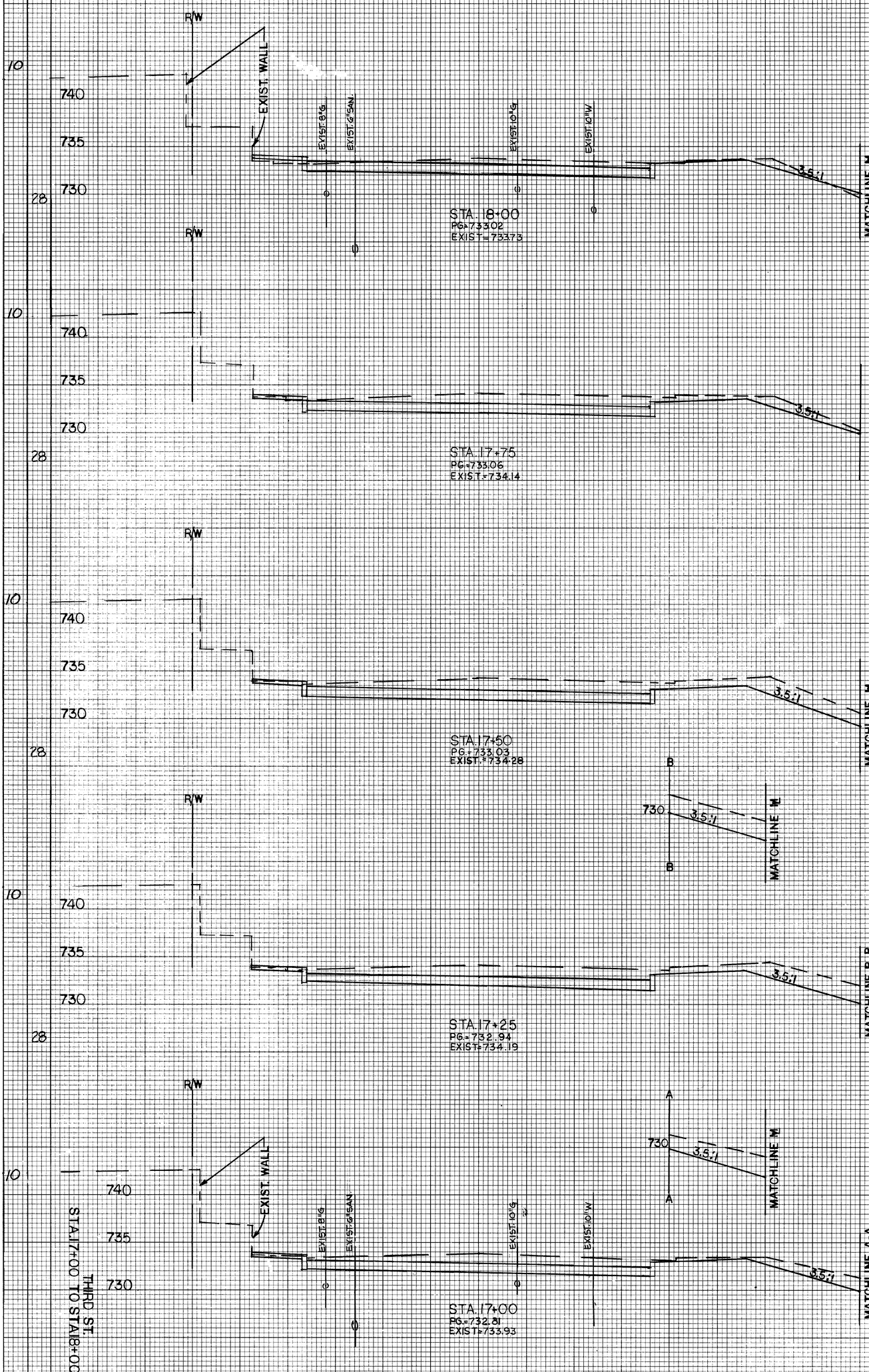
362

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING	
END WIDTH	SQ YDS
28	
10	
28	
10	
28	
10	
28	
10	
28	
10	

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		38	12
54	5		
		64	3
85	1		
		87	1
103	1		
		104	1
122	1		
		59	1
100	2		



THIRD ST.
STA. 17+00 TO STA. 18+00

CALC. BY D.M. DATE 1-11-84
CHK'D. BY E.H.C. DATE 2-15-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL-30-35 29

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING

END AREA	SQ YDS

END AREA CU. YDS.	
CUT	FILL

28

10 735 730

R/W

EXIST. WALL

EXIST. 8"G

EXIST. 6"SAN.

EXIST. 10"G

EXIST. 10"W

4:1

MATCHLINE M

STA. 9+00
PG.=732.20
EXIST.=730.55

41

117

28

10 735 730

R/W

EXIST. WALL

3.7:1

STA. 18+75
PG.=732.48
EXIST.=731.47

104

0 108

28

13 74

10 740 735 730

R/W

EXIST. WALL

EXIST. WALL

3.6:1

STA. 18+50
PG.=732.73
EXIST.=732.38

19 43

29 21

28

10 740 735 730

R/W

EXIST. WALL

EXIST. 8"G

EXIST. 6"SAN.

EXIST. 10"G

EXIST. 10"W

3.6:1

MATCHLINE M

STA 18+25
PG. 732.91
EXIST. 733.19

THIRD ST.
STA 18+25 TO STA 19+00

30 20 10 ℄ 10 20 30 40

CALC BY D.M. DATE 1-11-84
CHK'D BY E.H.C. DATE 2-15-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

COL-30-35.29

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CALC. BY	D.H.	DATE	1-11-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY	E.H.C.	DATE	2-15-84	5	OHIO	U-457(14)	

180
362

COL-30-35.29

END AREA	CU. YDS.
CUT	FILL
CUT	FILL

228 | 234 | 198
285 | 221 | 186

MATCHLINE ℳ

4:1

EXIST 10'W

EXIST 10'6"

STA. 19+75
PG=731.36
EXIST=728.79

EXIST 8'6"

EXIST 10'6" SAN

R/W

BLDG.

735 | 730 | 725

28 | 10

STA. 19+50
PG=731.64
EXIST=728.67

STA. 19+25
PG=731.92
EXIST=729.63

40 | 30 | 20 | 10 | ℄ | 10 | 20 | 30

THIRD ST.
STA 19+25 TO STA 19+75

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

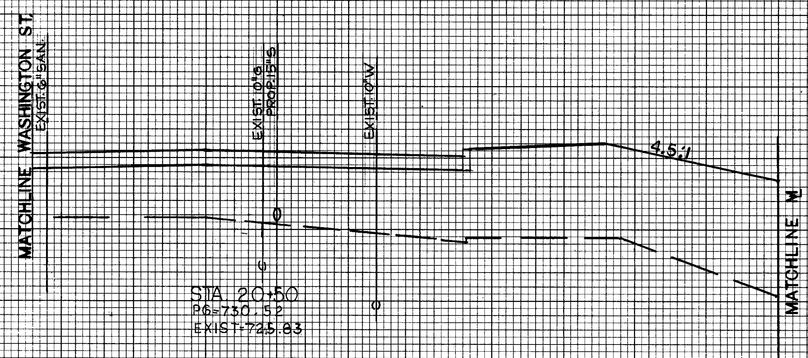
SCORING
END | SQ.
WIDTH | YDS.

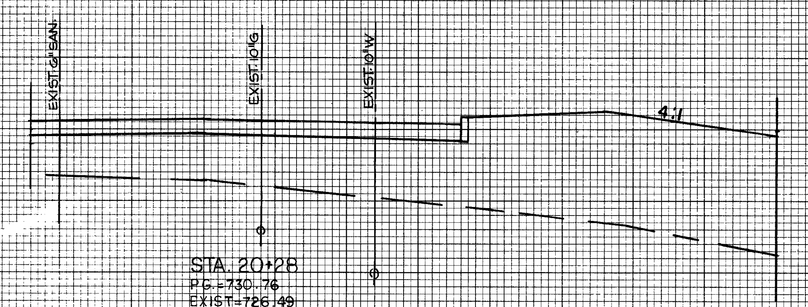
ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

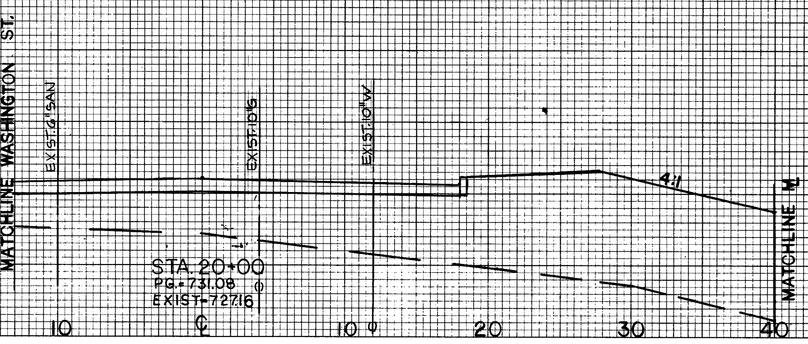
FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SCOPING		
END AREA	SQ. YDS.	
WIDTH	CUT	FILL

END AREA CU. YDS.			
CUT	FILL	CUT	FILL
28		316	
10		305	
28		261	
10		307	
31		294	
10		278	







THIRD ST.
STA 20+00 TO STA 20+50

CALC. BY D.M. DATE 1-11-84
CHK'D. BY E.H.C. DATE 2-15-84

FHWA REGION	STATE	PROJECT
5	OHIO	U-457(14)

691-30-35.26

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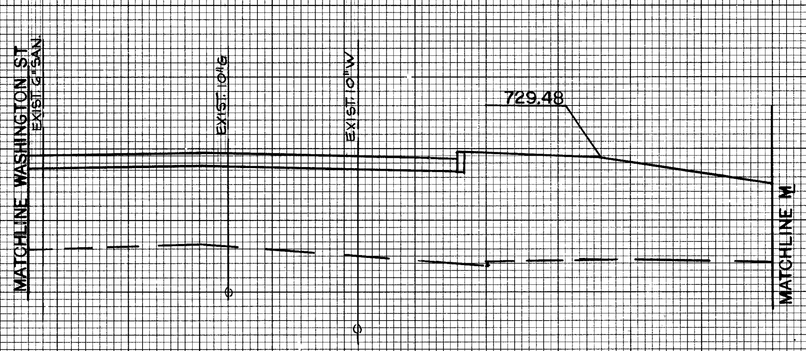
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

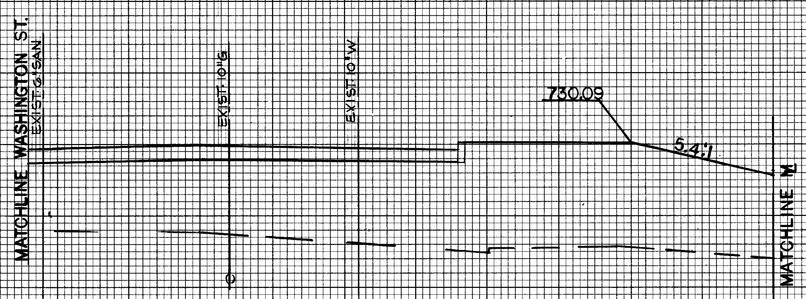
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING	
END WIDTH	SQ. YDS

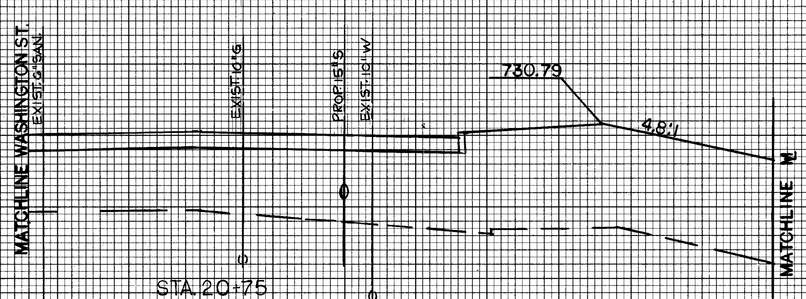
END AREA	CU. YDS.		
CUT	FILL	CUT	FILL
		356	
			165
		345	
			229
		327	



STA 21+17.65 (SEE M STA 991+50)
PG. 729.76
EXIST. 723.31



STA. 21+00
PG. + 729.96
EXIST. = 723.94



STA. 20+75
PG. + 731.08
EXIST. = 724.91

THIRD ST.
STA. 20+75 TO STA. 21+00

CALC. BY	D.M.	DATE	1-11-84
CHK'D. BY	R.M.C.	DATE	2-15-84

COL-30-35.29

FHWA REGION	STATE	PROJECT
5	OHIO	U-457(14)

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CALC. BY	D.M.	DATE	1-12-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY	E.H.C.	DATE	2-16-84	5	OHIO	U-457 (14)	

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COL.-30-35.29

JACKSON ST.
STA.48+50 TO STA.50+00

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

DESIGN	
ENG.	
DRAFT.	
CHK.	

CALC.BY D.M.	DATE 1-9-84
CHK'D.BY E.N.C.	DATE 12-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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ENDAREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	0		
			130 64
272	133		
			188 62
		134 0	
			20 6

FINAL SURVEY		DATE
	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

ORIGINAL SURVEY		BY
	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

EXIST. 6" W

EXIST. 4" G

MATCHLINE M STA 98+00

MATCHLINE M STA 97+50

COL-30-35.29

STA 50+75.87 (SKEWED)
EXIST. 728.03
PG. 731.14
ABUTMENT NO. 1

MATCHLINE B-B

MATCHLINE M STA 97+50

STA 50+50
EXIST. 731.43
PG. 733.37

B

730

725

B

AHEAD ← → BACK

MATCHLINE A-A

MATCHLINE M STA 98+00

EXIST. S

EXIST. 6" W

EXIST. 4" G

STA 50+25
EXIST. 734.59
PG. 735.11

A

735

A

JACKSON ST.
STA 50+25 TO STA 50+75.87

725 720 715 710 735 730 725 735

0 13 18 13 9 18 13 9 21 6

85 60 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

PLATE 3, CROSS SECTION

CALC. BY D.M.	DATE 1-9-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY E.H.C.	DATE 12-13-84	5	OHIO	U-457 (14)	

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SODDING
PAD WIDTH 50 YDS

COL-30-35.29

END AREA CU. YDS.

CUT	FILL	CUT	FILL
		86	170
		70	208
		65	279
		6	27

STA53+00
EXIST.702.05
PG703.90

MATCHLINE M STA98I+00

MATCHLINE M STA979+50

MATCHLINE B-B

MATCHLINE A-A

STA52+75
EXIST.704.26
PG.707.03

STA52+51.87 (SKEWED)
EXIST.706.26
PG.709.77'
ABUTMENT NO 2

JACKSON ST.
STA52+51.87 TO STA53+00

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED BY
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED BY
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
DATE

CALC. BY	D.M.	DATE	1-9-84
CHKD. BY	E.C.	DATE	12-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

SODDING END WIDTH	SODDING SQ. YDS.
13	
18	
0	
64	
46	
128	

FINAL SURVEY	DATE
SURVEYED BY	
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED BY	
PLOTTED	
NOTE BOOK	
TEMPLATE AREAS	
AREAS CHECKED	
NO.	

R/W

EXIST. 8"S

EXIST. 4"G

EXIST. 18"S

PROP. 8" SAN.

MATCHLINE SECOND ST. STA10+25

MATCHLINE M STA979+50

STA53+75
EXIST. 699.53
PG. 698.95

STA53+50
EXIST. 700.09
PG. 700.09

STA53+25
EXIST. 700.30
PG. 701.39

700

700

700

END AREA CU. YDS.	
CUT	FILL
208	10
124	27
60	48
28	67
0	97
40	124

JACKSON ST.
STA53+25 TO STA53+75

40 30 20 10 ℄ 10 20 30 40 50 60 70 80

PLATE 3, CROSS SECTION
KEUFFEL & ESSER CO.

CALC. BY	D.M	DATE	1-9-84
CHKD. BY	E.C.	DATE	12-13-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

END AREA CU. YDS.	
CUT	FILL
0	0
5	4
23	22
120	13
237	6
278	6
364	6
265	1

LOCATING	
END WIDTH	SQ YDS
0	
25	
8	
50	
18	
47	
16	
42	

690
695
690
695
695

R/W

PROP. 8"SAN.

STA54+65
EXIST.691.56
PG691.56

R/W

PROP. INLET

CB.40

CB.18

4:1

4:1

STA54+50
EXIST.692.56
PG.692.69

R/W

TO CB.40

5:1

3:1

STA54+25
EXIST.695.00
PG.694.60

MATCHLINE ℄ STA979+50

R/W

TO CB. 40

4:1

3:1

PROP.12"S

PROP.8"SAN.

STA54+00
EXIST.697.12
PG.696.91

MATCHLINE ℄ STA979+50

JACKSON ST.
STA54+00 TO STA54+65

40 30 20 10 ℄ 10 20 30 40 50 60 70 80

FINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TOTAL AREA
	AREAS
	AREAS CHECKED

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TOTAL AREA
	AREAS
	AREAS CHECKED

CALC. BY	D.M.	DATE	1-12-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY	E.H.C.	DATE	2-16-84	5	OHIO	U-457 (14)	

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COL.-30-35.29

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

END AREA	CU. YDS.
CUT	
FILL	
CUT	
FILL	

20 31 93 150 95 66

36 50 61 129 143 14 61 156

MATCH TO SECOND ST. (P.C.) STA. 15+22.86

MATCH TO THIRD ST. (PT) STA. 15+26.06

BLDG.

R/W

MEET EXIST.

EXIST. 5"W

EXIST. 8"G

EXIST. 2"G

EXIST. 6"W

PROP. 30"S

PROP. 15"S

PROP. 12"S

STA. 54+12.5
EXIST. 697.78
BEGIN FEATHER
P.G.=697.92

STA. 54+00
EXIST. 698.47
P.G. 698.42

STA. 53+85
EXIST. 698.57
P.G. 698.80

STA. 53+59.98
EXIST. 699.96
P.G. 699.34

STA. 53+06.56
EXIST. 699.96
P.G. 699.34

MATCH TO SECOND ST. (PT)
STA. 16+06.56

MATCH LINE A-A

STA. 49+81.5
EXIST. 733.63
P.G. 732.62

STA. 49+50
EXIST. 736.11
P.G. 735.32

STA. 49+25
EXIST. 736.12
P.G. 737.73

STA. 49+00
EXIST. 740.13
P.G. 740.13

MATCH TO THIRD ST. (PT) STA. 16+06.05

700 695 700 695 700 695 735 730 740 735 740 735 745 740

MARKET ST.
STA. 49+00
TO
STA. 54+12.5

CALC. BY D.M. DATE 1-12-84	FHWA REGION	STATE	PROJECT	
CHK'D. BY E.H.C. DATE 2-16-84	5	OHIO	U-457 (14)	

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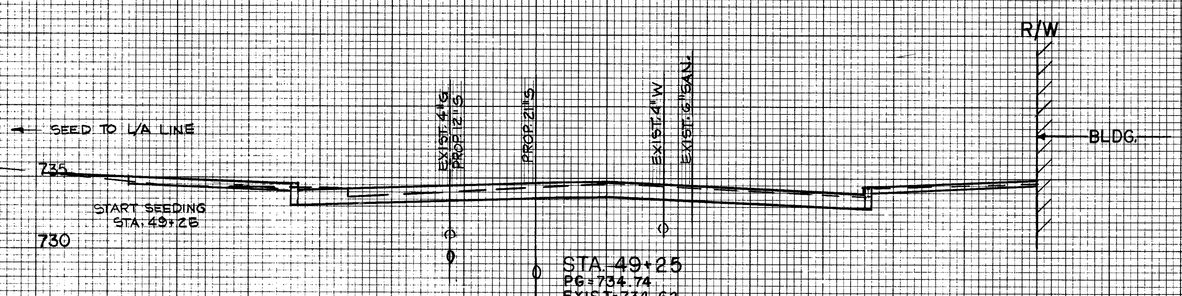
| | | |

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

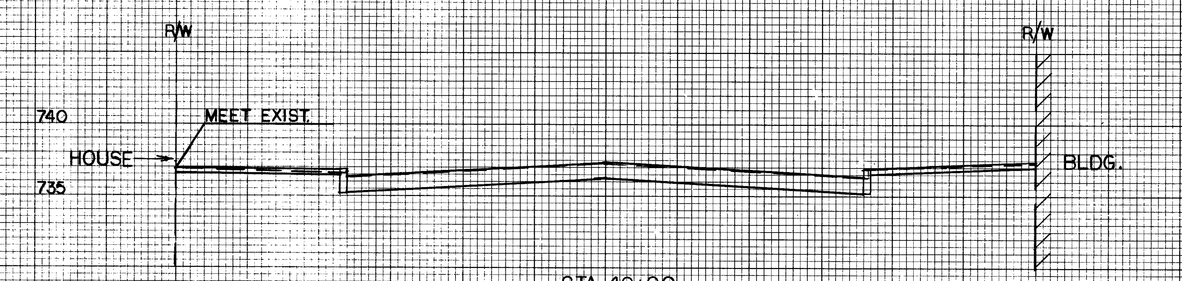
FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SEEDING	
END WIDTH	SQ. YDS.
275	

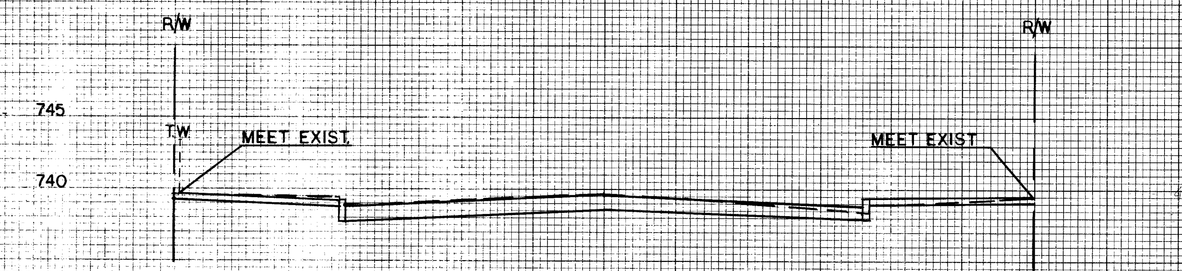
END AREA CU YDS.	
CUT	FILL
36	30
39	23
44	12
55	2
47	4
47	6
39	6
38	6
40	17
55	10
41	7
46	4



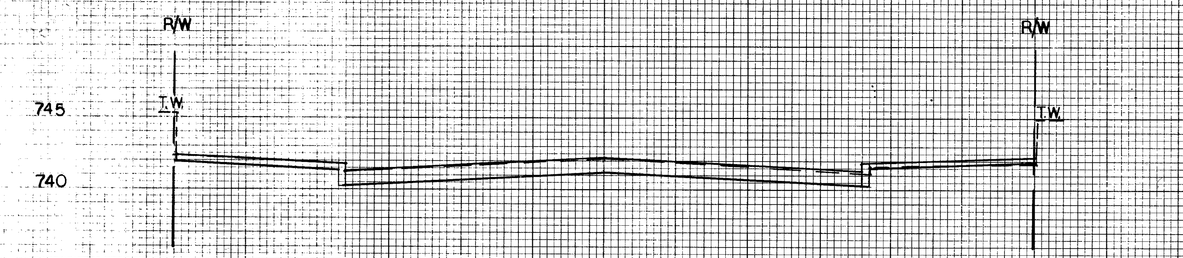
STA. 49+25
PG=734.74
EXIST=734.62



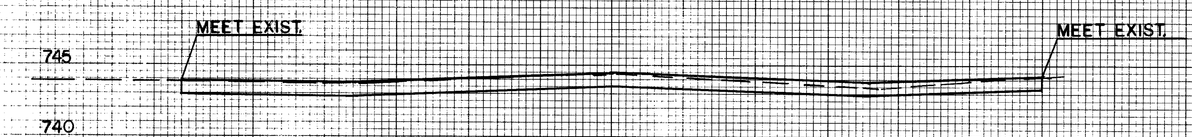
STA. 49+00
PG=737.18
EXIST=737.17



STA. 48+75
PG.=739.64
EXIST=739.67

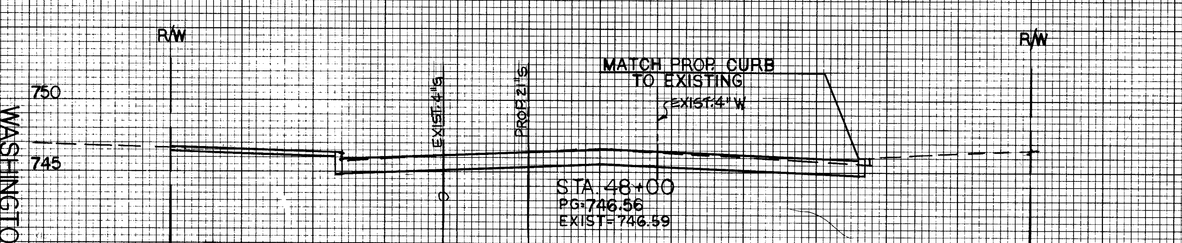


STA. 48+50
PG=742.09
EXIST=742.05



STA. 48+27
PG=744.48
EXIST=744.44
℄ CHURCH ALLEY

RESUME SIDEWALK STA. 48+13



STA. 48+00
PG=746.56
EXIST=746.59

SUSPEND SIDEWALK STA. 47+87

WASHINGTON ST.
STA. 48+00 TO STA. 49+25

30 20 10 ℄ 10 20 30

CALC. BY D.M. DATE 1-12-84
CHK'D. BY E.H.C. DATE 2-16-84

COL. 30-35-29

FHWA REGION	STATE	PROJECT
5	OHIO	U-457 (14)

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ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SEEDING	
END WIDTH	SQ. YDS.

END AREA CU. YDS.	
CUT	FILL

R/W

700

695

EXIST. 4"W

EXIST. 2"S

STA. 54+12.50
PG=696.18
EXIST=696.70

MEET EXIST.

MEET EXIST.

57 0

57 1

STA. 53+83.94
PG=697.04
EXIST=697.54

PT. 18' RT. ℄ RELOC. SECOND ST. STA. 20+49.13

PC. 18' RT. ℄ RELOC. SECOND ST. STA. 19+67.47

51 2

156 3

150 0

STA. 53+41.98
PG=697.56
EXIST=698.66

PT. 12' LT. ℄ THIRD STA. 21+17.65

B

730

100 90 80 70 60 50 40

℄ THIRD

PC. 18' LT. STA. 19+66.57

735

730

MATCHLINE B-B

0 93

51

STA. 49+88
PG=730.72
EXIST=727.46

SEED TO L/A LINE

A

730

4:1

55

60 END SEEDING THRID STREET STA. 21+20

50 40

735

730

MATCHLINE A-A

R/W

BUILDING

0 34

0 18

16 89

155

STA. 49+71.5
PG=730.93
EXIST=729.19

57 41

R/W

735

75

SEED TO L/A LINE

730

PROP. 24"S

EXIST. 4"W

EXIST. 2"S

PROP. 12"S

BUILDING

STA. 49+50
PG=732.10
EXIST=732.02

WASHINGTON ST.
STA. 49+50 TO STA. 54+12.50

30 20 10 ℄ 10 20 30

CALC. BY D.M. DATE 1-12-84
CHK'D. BY E.H.C. DATE 2-16-84

FEMA REGION	STATE	PROJECT
5	OHIO	U-487 (14)

60L-30 35.29

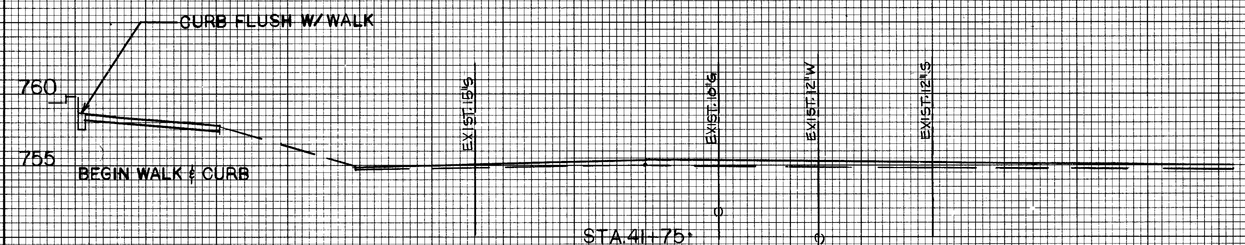
191
362

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

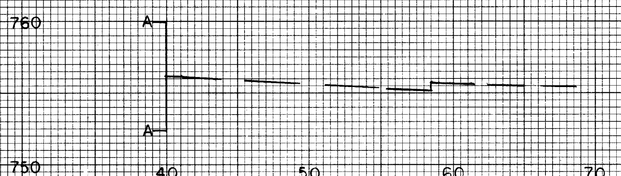
SODDING	
END WIDTH	SQ. YDS

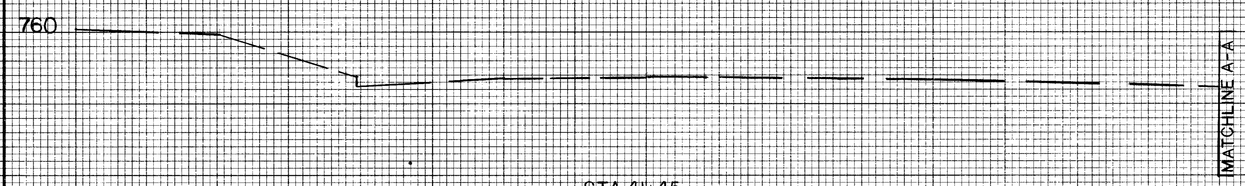
END AREA CU. YDS.	
CUT	FILL



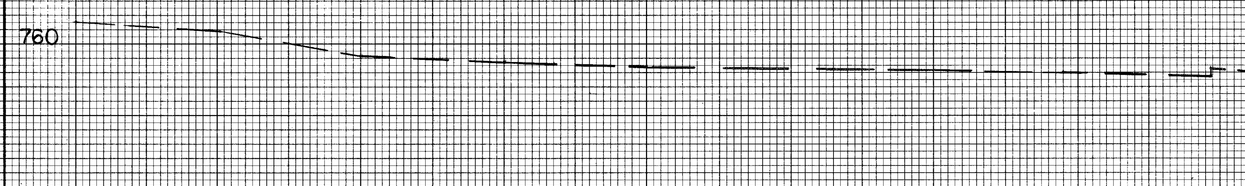
STA. 41+75
PG. = 755.29
EXIST. = 755.04

BEGIN TAPER AND RESURFACING





STA. 41+45
EXIST. = 756.94



STA. 41+25 (ALLEY L.T.)

EXIST. = 758.46

STA. 41+09.70

EXIST. = 759.47

BROADWAY
STA. 41+09.70 TO STA. 41+75

40 30 20 10 ℄ 10 20 30 40

CALC. BY D.M. DATE 1-13-84
CHK'D BY E.H.C. DATE 2-17-84

COL.-30-35.29

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

192
362

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING	
END WIDTH	SQ YDS

END AREA CU. YDS.			
CUT	FILL	CUT	FILL

760
750
MATCH TO FOURTH ST. RESURFACING
EXIST. 15"S
EXIST. 6"W
EXIST. 12"W
EXIST. 12"S
R/W
BLDG.
STA.42+50
PG.=748.46
EXIST.=748.21
9
4
750
R/W
BLDG.
750
10
STA.42+38.22 (P.T. RIGHT)
PG.=749.43
EXIST.=749.18
740
6
760
R/W
EL-751.81 T.C.
EL-751.05
0
28
STA.42+29.41 (P.C. LEFT)
PG.=750.35
EXIST.=750.10
10
5
760
EL-752.44 T.C.
EL-751.89
7
750
MATCH TO FOURTH ST. RESURFACING
30
STA. 42+25
PG=750.80
EXIST. 750.55
22
21
760
EL-755.90 T.C.
EL-755.15
750
EXIST. 6"S
EXIST. 6"S
EXIST. 12"W
EXIST. 12"S
MATCH TO FOURTH ST. RESURFACING
8
STA.42+00
P.G. 753.23
EXIST.=752.98
18
BROADWAY
STA. 42+00 TO STA. 42+50
40 30 20 10 ℄ 10 20 30 40

CALC. BY D.M. DATE 1-13-84
CHK'D BY E.H.C. DATE 2-17-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

COL-30-35.29

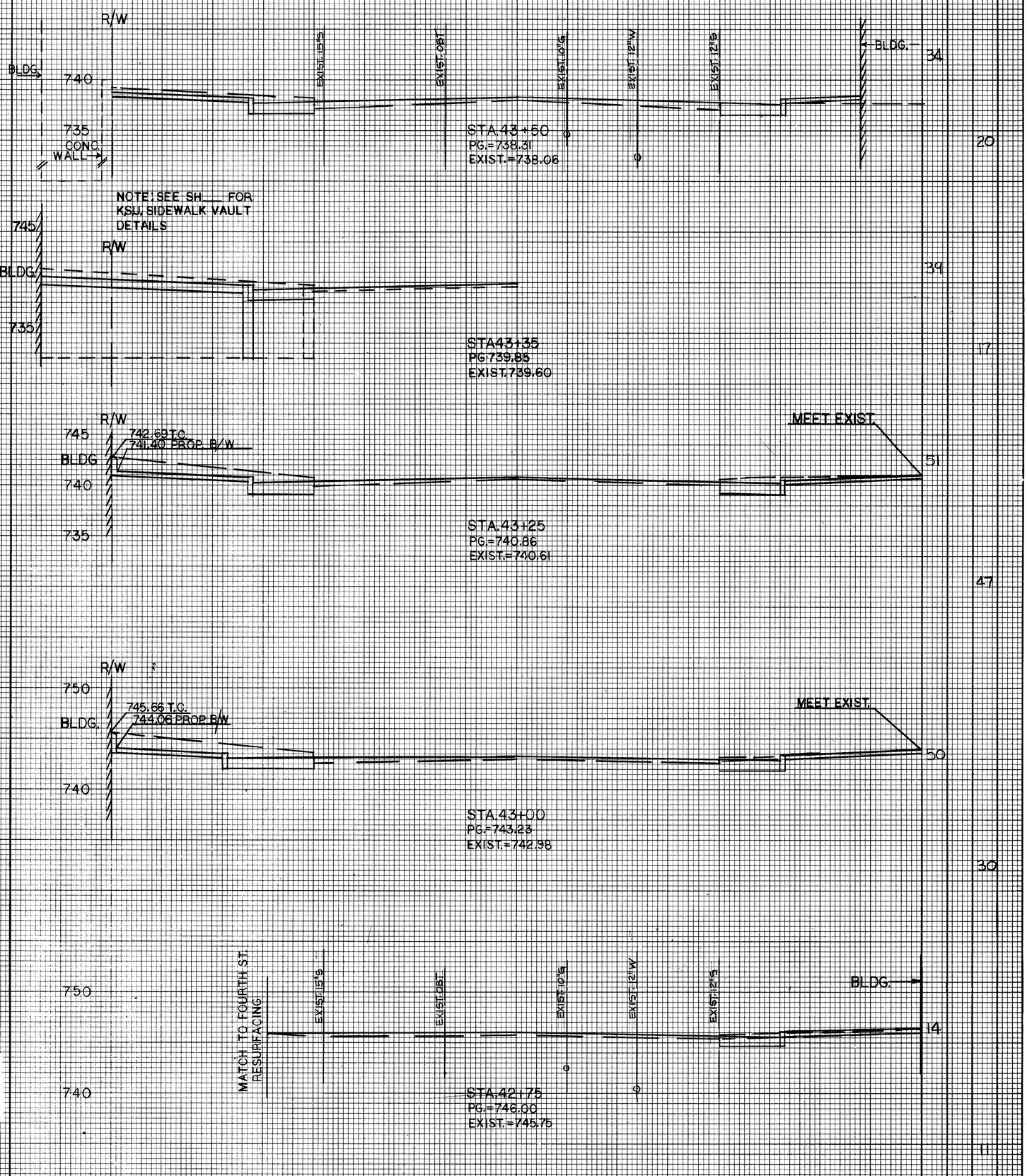
193
362

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SCOUTING	
ENG WIDTH	SQ YDS

END AREA CU YDS.	
CUT	FILL



BROADWAY
STA. 42+69.81 TO STA. 43+50

CALC. BY D.M. DATE 1-13-84
CHK'D. BY E.H.C. DATE 2-17-84

FEDERAL RECORDS	STATE	PROJECT
5	OHIO	U-457 (14)

COL. 30-35-29

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING	
ENG	SQ.
WDTH	YDS

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		54	21
54	26		
		57	19
70	14		
		43	
25			
		22	
23			
		27	
36			
		32	

SEE GENERAL NOTE REGARDING COLUMBIA GAS CO. GAS LINE

730 R/W — 720

POLE 815 — EXIST. 8"W — EXIST. 6"W — R/W

STA. 44+75
PG.=725.85
EXIST.=725.46

740

R/W — BLDG. — 730

FULL DEPTH PAVEMENT AHEAD

RESURFACE BACK

R/W

STA. 44+50
PG.=728.18
EXIST.=728.19

740 — R/W — 730

CHURCH ALLEY MEET EXIST.

STA. 44+25
PG.=730.85
EXIST.=730.60

740 — BLDG. R/W — 730

MEET EXIST. — BLDG.

STA. 44+00
PG.=733.42
EXIST.=733.17

720

BLDG. — R/W — 740 — MEET EXIST. — AIR SHAFT — 730

POLE 815 — EXIST. 8"W — EXIST. 6"W — R/W — BLDG.

STA. 43+75
PG.=735.87
EXIST.=735.62

40 30 20 10 ℄ 10 20 30 40

BROADWAY
STA. 43+75 TO STA. 44+75

CALC. BY D.M. DATE 1-15-84
CHK'D BY E.H.C. DATE 2-17-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

COL-30-35.29

195
362

CALC. BY	D.M.	DATE	1-13-84
CHK'D. BY	E.H.C.	DATE	2-17-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

196
362

ENG AREA CU. YDS.
CUT FILL CUT FILL

33 45 | 41 37 | 51 11 | 65 20 | 63 20

34 16 | 42 22 | 53 14 | 59 12

COL - 30 - 35 29

MATCHLINE ℄ STA 397+70.53

EXIST. 6"W

EXIST. 10"S

PROP. 18"S

STA. 46+00
P.G. 712.82
EXIST. 711.66

STA. 45+75
P.G. = 715.39
EXIST. 714.92

STA. 45+50
P.G. = 717.97
EXIST. 718.07

STA. 45+25
P.G. 720.56
EXIST. 720.54

STA. 45+00
P.G. 723.11
EXIST. 722.91

SEE GENERAL NOTE REGARDING COLUMBIA GAS CO. GAS LINE

MATCHLINE ℄ STA 398+26.43

MATCHLINE ℄ STA 398+36.43

R/W

720 710 720 710 720 715 725 720 715 730 725 720

0 10 20 30 40 10 20 30 40

BROADWAY
STA. 45+00 TO STA. 46+00

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TRAVERSE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TRAVERSE — AREAS — AREAS CHECKED — BY — DATE

SODDING
AREA SQ. YDS.
WIDTH YDS.

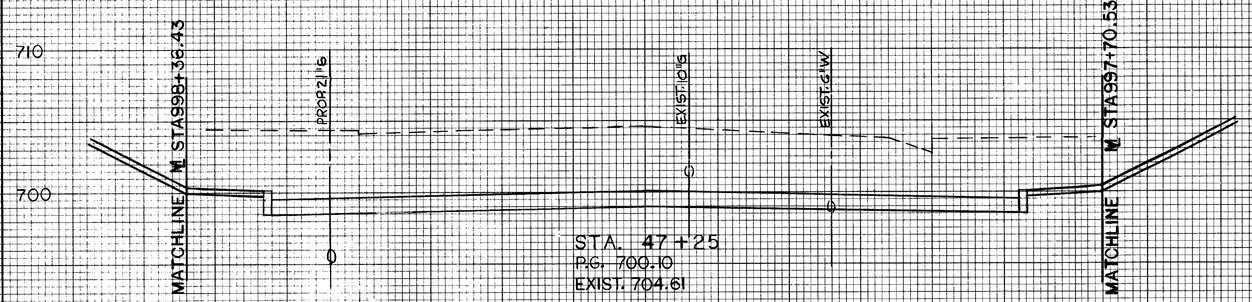
ORIGINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SODDING	
END WIDTH	SQ. YDS.

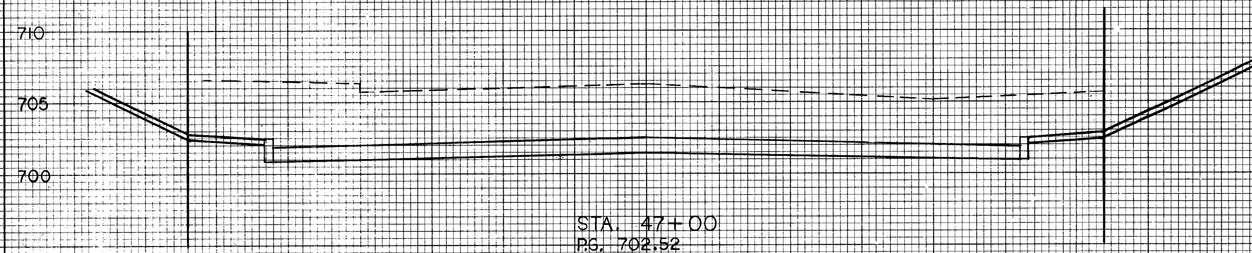
END AREA	CU. YDS.	
CUT	FILL	CUT FILL

SEE GENERAL NOTE REGARDING COLUMBIA GAS CO. GAS LINE



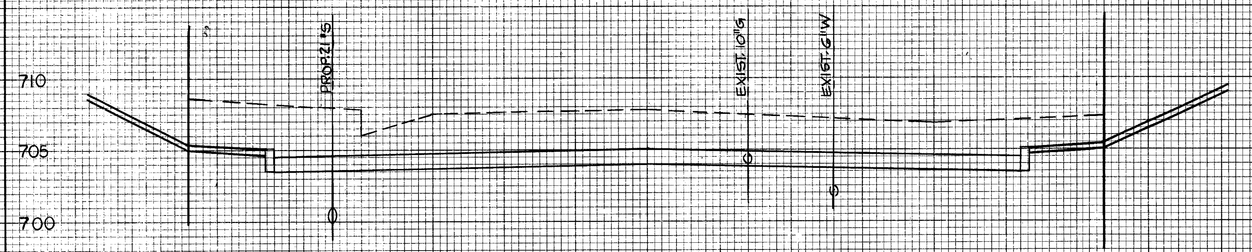
STA. 47+25
P.G. 700.10
EXIST. 704.61

325
346



STA. 47+00
P.G. 702.52
EXIST. 706.37

300
301
249

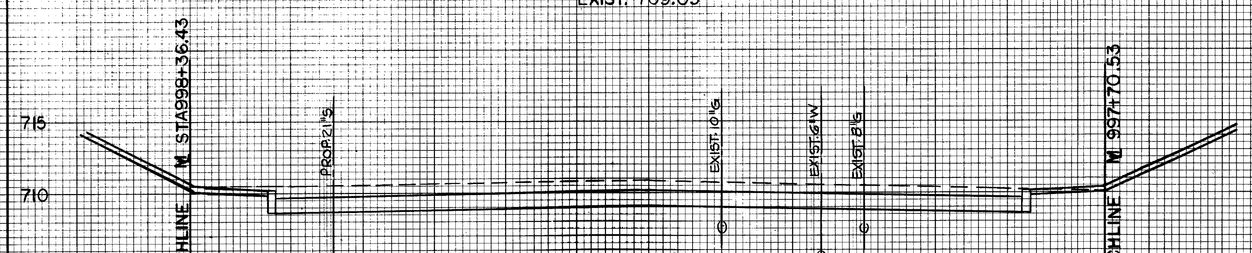


STA. 46+75
P.G. 705.09
EXIST. 707.87

236
179

STA. 46+50
P.G. 707.67
EXIST. 709.05

150
110
105



STA. 46+25
P.G. 710.24
EXIST. 710.90

64 22

BROADWAY
STA46+25 TO STA47+25

40 30 20 10 ℄ 10 20 30 40

COL-30-35.29

CALC. BY P.M. DATE 1-13-84
CHK'D. BY E.H.C. DATE 2-17-84

FHWA REGION	STATE	PROJECT
5	OHIO	U-457 (14)

197
362

CALC. BY D.M. DATE 1-13-84
CHK'D. BY E.H.C. DATE 2-17-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

198
362

COL-30-35.29

ENDAREA CU. YDS.	
CUT	FILL
CUT	FILL

249	265	315	338	338	357
323		357		373	

4:1

MATCHLINE ℄ STA997+70.53

EXIST. ℄ W

EXIST. 10"ϕ

PROP. 21"ϕ

STA. 48+50
PG. 692.86
EXIST. 695.23

MATCHLINE ℄ STA998+36.43

STA. 48+25
PG. 693.67
EXIST. 697.89

STA. 48+00
PG. 694.80
EXIST. 699.59

END WALK
STA. 47+90

STA. 47+75
PG. 696.24
EXIST. 701.24

STA. 47+50
PG. 698.01
EXIST. 702.90

BROADWAY
STA. 47+50 TO STA. 48+50

SLOPING		
END	SQ. YDS.	
WIDTH		

| | | | | |

ORIGINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

STATION	END AREA CU. YDS. CUT	END AREA CU. YDS. FILL	CUM. CUT	CUM. FILL
11+50			181	55
	109	27		
11+00			230	59
	139	37		
10+50			181	111
	57	83		
10+15			56	65
	20	10		
10+00			8	5
	0	0		

STA 11+50
PG. 729.89
EXIST. 731.8

STA 11+00
PG. 728.45
EXIST. 730.6

STA 10+50
PG. 729.98
EXIST. 729.6

STA 10+15
PG. 733.39
EXIST. 733.30

STA 10+00
PG. 735.10
EXIST. 735.10

BEGIN WORK

RELOC. THIRD ST.
STA 10+00 TO STA 11+50

CALC. BY D.M. DATE 1-13-84
CHK'D BY E.H.C. DATE 2-17-84

FHWA REGION	STATE	PROJECT
5	OHIO	U-457 (14)

COL-30-35.29

199
362

END AREA CU YDS		
CUT	FILL	CUT	FILL
0	0	32	9
114	33	244	54
150	25	177	3
41	8	98	67
32	86		

CALC. BY D.M. DATE 1-13-84
CHK'D. BY E.H.C. DATE 2-17-84

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457 (14)	

200
362

COL-30-35.29

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

SCALING
1 in. = 10 ft.
VERT. 10ft.

STA13+65
PG.748.2
EXIST.748.2

STA13+50
PG.746.53
EXIST.746.28

STA13+00
PG.739.77
EXIST.734.3

STA12+50
PG.734.38
EXIST.733.9

STA12+00
PG.731.50
EXIST.732.3

MATCHLINE M

MATCHLINE M

4:1

4:1

3:1

EXIST. R/R

EXIST. R/R

RELOC. THIRD ST.
STA12+00 TO STA13+65

CALC. BY E.H.C. DATE 2-22-84
CHK'D BY L.C.K. DATE 7-10-84

	FHWA REGION	STATE	PROJECT	
	5	OHIO	U-457(14)	

COL-30-35.29

STATION	END AREAS		CENTROID FROM C/L		3906.53' RADIUS LT ADJUSTED ARC LENGTH		EARTH WORK	
	CUT (SF)	FILL (SF)	CUT (FT)	FILL (FT)	CUT (FT)	FILL (FT)	CUT (CY)	FILL (CY)
967+00.00	1280.5	0.0	-44.16	0.00				
967+50.00	1334.7	0.0	-29.26	0.00	49.53	50.00	2399.	0.
968+00.00	1516.1	0.0	-12.98	0.00	49.72	50.00	2625.	0.
968+50.00	1936.7	0.0	-15.76	0.00	49.81	50.00	3185.	0.
969+00.00	2976.7	0.0	-18.49	0.00	49.78	50.00	4530.	0.
969+50.00	3844.4	0.0	-29.77	0.00	49.69	50.00	6277.	0.
970+00.00	4517.8	0.0	-32.41	0.00	49.60	50.00	7681.	0.
970+50.00	5065.1	0.0	-30.45	0.00	49.59	50.00	8802.	0.
971+00.00	5136.5	0.0	-30.30	0.00	49.61	50.00	9372.	0.
971+50.00	5176.3	0.0	-30.51	0.00	49.61	50.00	9475.	0.
972+00.00	5568.0	0.0	-33.27	0.00	49.59	50.00	9867.	0.
972+50.00	5973.6	0.0	-42.94	0.00	49.51	50.00	10583.	0.
973+00.00	5700.9	0.0	-33.99	0.00	49.50	50.00	10703.	0.
973+50.00	5914.8	0.0	-33.90	0.00	49.56	50.00	10662.	0.
974+00.00	5872.6	0.0	-36.14	0.00	49.55	50.00	10816.	0.
974+50.00	5827.2	0.0	-35.35	0.00	49.54	50.00	10734.	0.
975+00.00	6074.1	0.0	-39.98	0.00	49.51	50.00	10914.	0.
975+50.00	6489.0	0.0	-39.57	0.00	49.49	50.00	11514.	0.
976+00.00	6365.7	0.0	-38.38	0.00	49.50	50.00	11784.	0.
976+50.00	6530.2	0.0	-39.63	0.00	49.50	50.00	11822.	0.
977+00.00	6608.4	0.0	-39.21	0.00	49.49	50.00	12043.	0.
977+50.00	6386.8	0.0	-42.89	0.00	49.47	50.00	11906.	0.
978+00.00	6307.8	0.0	-40.01	0.00	49.46	50.00	11630.	0.
978+50.00	6278.4	0.0	-32.20	0.00	49.53	50.00	11546.	0.

STATION	END AREAS		CENTROID FROM C/L		5729.58' RADIUS LT ADJUSTED ARC LENGTH		EARTH WORK	
	CUT (SF)	FILL (SF)	CUT (FT)	FILL (FT)	CUT (FT)	FILL (FT)	CUT (CY)	FILL (CY)
978+50.00	6278.4	0.0	-32.20	0.00				
979+00.00	5816.8	0.0	-34.20	0.00	49.71	50.00	11134.	0.
979+50.00	5295.2	0.0	-23.08	0.00	49.75	50.00	10238.	0.
980+00.00	3526.5	0.0	-19.40	0.00	49.81	50.00	8138.	0.
980+50.00	3563.4	0.0	-21.23	0.00	49.82	50.00	6542.	0.
981+00.00	3818.3	0.0	-24.97	0.00	49.79	50.00	6807.	0.
981+50.00	3769.9	0.0	-35.03	0.00	49.73	50.00	6989.	0.
982+00.00	3762.6	0.0	-35.58	0.00	49.69	50.00	6932.	0.
982+50.00	3042.4	0.0	-40.57	0.00	49.66	50.00	6259.	0.
983+00.00	2381.9	0.0	-36.02	0.00	49.66	50.00	4989.	0.
983+50.00	2464.7	0.0	-38.99	0.00	49.67	50.00	4458.	0.
984+00.00	2147.8	0.0	-41.05	0.00	49.65	50.00	4241.	0.
984+50.00	1375.0	0.0	-42.27	0.00	49.63	50.00	3238.	0.
985+00.00	1483.8	58.0	-55.13	53.50	49.57	50.23	2625.	54.
985+50.00	1014.2	8.1	-50.45	47.47	49.53	50.44	2292.	62.
986+00.00	631.5	52.0	-49.21	54.71	49.56	50.44	1511.	56.
986+50.00	793.4	109.0	-62.82	51.06	49.51	50.46	1307.	151.
987+00.00	715.7	374.7	-69.50	49.75	49.42	50.43	1381.	452.
987+50.00	530.4	651.1	-69.15	47.07	49.39	50.42	1140.	958.
988+00.00	282.6	541.3	-80.00	17.39	49.34	50.28	743.	1110.
988+50.00	255.7	667.7	-72.79	24.34	49.33	50.18	492.	1124.
989+00.00	53.6	930.7	-68.95	21.01	49.38	50.19	283.	1486.
989+50.00	0.0	1228.1	0.00	5.73	49.69	50.11	49.	2004.
989+90.00	0.0	1424.1	0.00	3.17	40.00	40.03	0.	1966.
990+50.00	0.0	1678.2	0.00	3.63	60.00	60.03	0.	3449.
991+00.00	0.0	1372.0	0.00	28.46	50.00	50.14	0.	2832.
991+50.00	0.0	1373.2	0.00	23.73	50.00	50.22	0.	2554.
992+00.00	0.0	3485.9	0.00	-5.91	50.00	50.07	0.	4506.

STATION	END AREAS		CENTROID FROM C/L		4297.18' RADIUS LT ADJUSTED ARC LENGTH		EARTH WORK	
	CUT (SF)	FILL (SF)	CUT (FT)	FILL (FT)	CUT (FT)	FILL (FT)	CUT (CY)	FILL (CY)
992+00.00	0.0	3485.9	0.00	-5.91				
992+50.00	0.0	3773.7	0.00	-6.51	50.00	49.92	0.	6712.
993+00.00	0.0	3952.1	0.00	-5.29	50.00	49.93	0.	7144.

STATION	END AREAS		CENTROID FROM C/L		2864.79' RADIUS LT ADJUSTED ARC LENGTH		EARTH WORK	
	CUT (SF)	FILL (SF)	CUT (FT)	FILL (FT)	CUT (FT)	FILL (FT)	CUT (CY)	FILL (CY)
993+00.00	0.0	3952.1	0.00	-5.29				
993+50.00	0.0	4070.4	0.00	-11.75	50.00	49.85	0.	7406.
994+00.00	0.0	4638.2	0.00	-4.00	50.00	49.86	0.	8041.
994+50.00	0.0	4532.7	0.00	-7.57	50.00	49.89	0.	8475.
995+00.00	0.0	5970.4	0.00	-13.77	50.00	49.81	0.	9689.
995+50.00	0.0	4624.1	0.00	-4.20	50.00	49.84	0.	9779.
996+00.00	0.0	5425.3	0.00	-3.02	50.00	49.93	0.	9293.
996+50.00	0.0	5382.3	0.00	-0.53	50.00	49.96	0.	10001.
997+10.02	0.0	5602.7	0.00	-1.25	60.01	60.00	0.	12206.
997+70.50	0.0	0.0	0.00	0.00	60.48	60.46	0.	6274.
998+36.40	0.0	0.0	0.00	0.00	65.89	65.89	0.	0.
998+96.80	1608.5	5228.2	186.41	-9.01	62.36	60.30	1858.	5839.
999+50.00	210.0	5782.5	218.66	13.04	56.96	53.23	1918.	10855.
1000+00.00	1.4	6800.7	187.73	34.47	53.54	50.41	210.	11748.
1000+50.00	1.5	5375.9	145.66	15.54	52.90	50.43	3.	11373.
1001+00.00	76.9	6775.7	171.00	30.47	52.76	50.40	77.	11342.
1001+50.00	0.0	7524.7	0.00	44.01	51.49	50.65	73.	13413.
1002+00.00	0.0	4438.6	0.00	30.11	50.00	50.64	0.	11221.
1002+50.00	0.0	1462.4	0.00	-40.40	50.00	49.91	0.	5454.
1003+00.00	229.0	735.3	45.12	-50.29	50.39	49.20	214.	2003.
1003+50.00	188.1	724.0	38.62	-51.88	50.73	49.10	392.	1327.
1004+00.00	67.7	747.7	14.39	-57.84	50.46	49.04	239.	1337.
1004+50.00	98.9	690.2	13.96	-60.56	50.24	48.96	155.	1304.

ADJUSTED EARTHWORK SUMMARY

PRM PS3 500 6-76 62754+

FHWA REGION	STATE	PROJECT	
5	OH10		

202
362

COL - 30 - 35.29

℄ RAMP "L"
CURVE Nº1
Δ = 20°10'30" LT.
Dc = 4°30'00"
R = 1273.24'
T = 226.51'
L = 448.34'
CH = 446.02'
E = 19.99'

P.C. STA. 972+00
59' LT. STA. 972+00 (℄ Nº1)

END TYPE G CURB

BEGIN COMB. CURB & GUTTER

℄ RAMP "L"

TYPE G CURB

MATCH LINE STA. 975+00

971+00

972+00

973+00

974+00

℄ Nº1

NOTE: 43' LT. ℄ 30-35 STA. 972+00
16' LT. ℄ RAMP 'L' STA. 972+00

℄ SURVEY ℄ Nº1

CONCRETE BARRIER

℄ Nº1 CURVE Nº2
Δ = 17°57'57"
Dc = 1°28'00"
R = 3906.58'
T = 617.54'
L = 1224.35'
CH = 1219.04'
E = 48.51'
SC. STA. 966+05.72
PCC. STA. 978+30.67

℄ RAMP "L"
CURVE Nº2
Δ = 6°56'44" RT.
Dc = 3°00'00"
R = 1905.86'
T = 115.80'
L = 231.52'
CH = 231.38'
E = 3.51'

P.C.C. STA. 976+48.34

℄ RAMP "L"

CURVE Nº2

P.T. STA. 978+79.86

END COMB. CURB & GUTTER
BEGIN TYPE G CURB

STA. 979+34.74

CURVE Nº1

MATCH LINE STA. 975+00

℄ JACKSON ST.

℄ RAMP 'L' STA. 979+82.69
℄ JACKSON ST. STA. 50+00
℄ THIRD ST. STA. 10+00

THIRD ST.

80°56'17"

0 10 20 40

GEOMETRIC PLAN & PAVEMENT DETAILS RAMP "L"

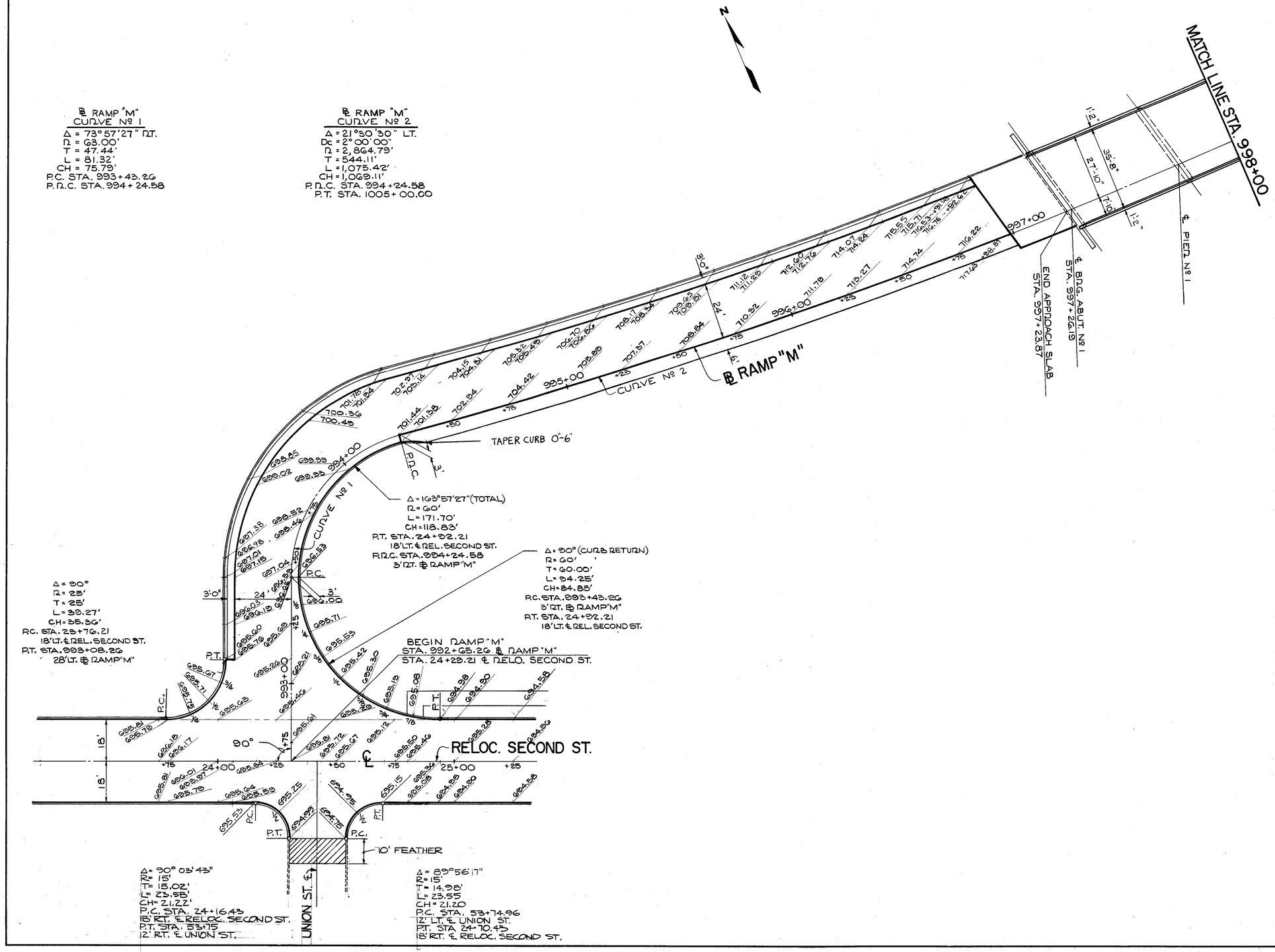
FHWA REGION	STATE	PROJECT	
5	OHIO		

203
362

COL-30-35.29

℄ RAMP "M"
CURVE Nº 1
Δ = 73°57'27" RT.
R = 68.00'
T = 47.44'
L = 81.32'
CH = 75.79'
P.C. STA. 993+43.26
P.R.C. STA. 994+24.58

℄ RAMP "M"
CURVE Nº 2
Δ = 21°30'30" LT.
Dc = 2°00'00"
R = 2,864.79'
T = 544.11'
L = 1,075.42'
CH = 1,069.11'
P.R.C. STA. 994+24.58
P.T. STA. 1005+00.00



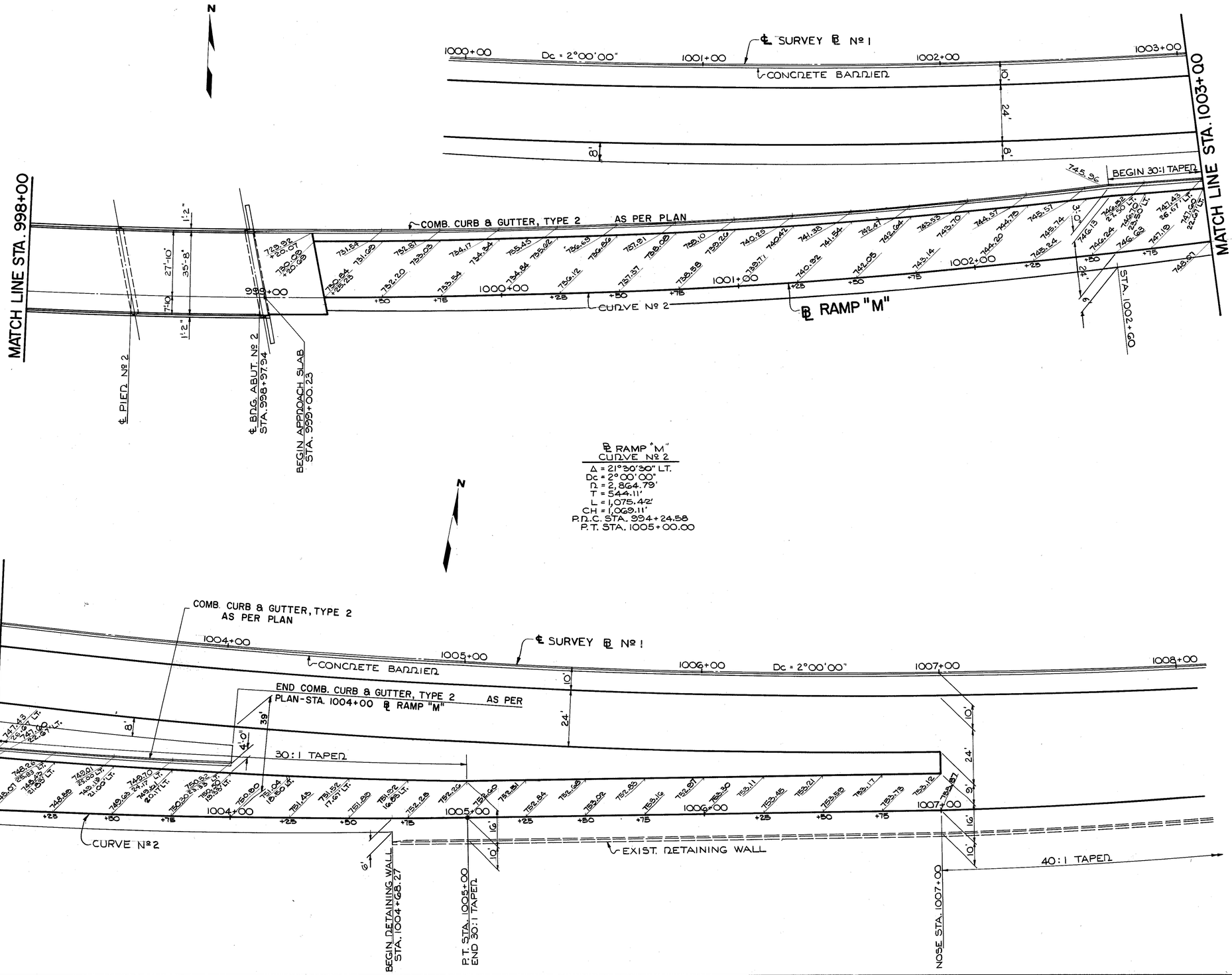
0 10 20 40

GEOMETRIC PLAN & PAVEMENT DETAILS RAMP "M"

FHWA REGION	STATE	PROJECT	
5	OHIO		

204
362

COL-30-35.29



GEOMETRIC PLAN & PAVEMENT DETAILS RAMP "M"

PRM_PS3 300 6-76 62754+

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL. 30-35.29

205
362

MATCH LINE STA. 971+50

SURVEY ℄ Nº1

℄ BREAK LINE

CURVE Nº1

℄ RAMP "N"

℄ RAMP "N"
CURVE Nº2
Δ = 7°54'18" LT.
D_c = 5°00'00"
R = 1145.92'
T = 79.18'
L = 158.10'
CH = 157.98'
E = 2.73'

℄ RAMP "N"
CURVE Nº1
Δ = 4°39'00" RT.
D_c = 1°00'00"
R = 5,729.58'
T = 232.68'
L = 465.00'
CH = 464.87'
E = 4.72'

BEGIN BREAK LINE ℄ Nº1 STA. 968+50

16' LT. ℄ RAMP "N" STA. 968+80
RDG. ℄ RAMP "N" STA. 968+50

16' LT. ℄ RAMP "N" STA. 970+47.05

16' LT. ℄ RAMP "N" STA. 970+85.70

NOSE: 51' RT. ℄ Nº1 STA. 972+30.97
16' LT. ℄ RAMP "N" STA. 972+34.64

100'

6"

P.T. STA. 973+45.00

P.C. STA. 974+52.54

974+00

975+00

MATCH LINE STA 976+00

P.T. STA. 976+10.64

STA. 976+50

150' TAPER

STA. 978+00

977+00

978+00

979+00

980+00

P.C. STA. 978+68.07

℄ RAMP "N"
CURVE Nº3
Δ = 16°06'00" LT.
D_c = 10°00'00"
R = 572.96'
T = 81.03'
L = 161.00'
CH = 160.47'
E = 5.70'

CURVE Nº3

P.C. STA. 41+87.55

P.C. ℄ RAMP "N"
STA. 980+15.87
Δ = 189°59'29"
R = 25.00'
L = 82.90'
CH = 49.81'

P.T. STA. 980+29.07

P.T. STA. 49+86.11

P.T. 12' LT. ℄ W. FIRST ST. STA. 49+37.83

℄ W. FIRST ST. STA. 45+02.23
49.55' RT. ℄ RAMP "N" STA. 976+48.39

Δ = 58°17'06"
R = 49'
T = 27.32'
L = 49.85'
CH = 47.72'

MEET EXIST. DRIVE

℄ PROP. R/W

Δ = 25°33'35"
R = 25'
T = 5.80'
L = 11.53'
CH = 11.43'

46+00

47+00

48+00

49+00

℄ W. FIRST ST.
CURVE Nº4
Δ = 4°55'41" LT.
D_c = 5°00'00"
R = 1,145.92'
T = 49.31'
L = 98.56'
CH = 98.53'
E = 1.06'

W. FIRST ST.

℄ JACKSON

℄ SECOND ST.

℄ JACKSON STA. 53+41.98
℄ SECOND STA. 10+00

℄ RAMP "N" STA. 980+69.07
℄ JACKSON STA. 53+58.98

℄ JACKSON STA. 54+38.30
℄ W. FIRST STA. 50+00

88°56'17"

78°45'00"

STA. 54+61

MEET EXIST. PVMT SAW-CUT JOINT

0 10 20 40

GEOMETRIC PLAN & PAVEMENT DETAIL RAMP "N" & W. FIRST ST.

AA B/P

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829(0)	5	OHIO	U-457	

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Δ= 89°56'17"
R= 10.00'
T= 9.99'
L= 15.70'
CH= 14.13'

Δ= 90°03'43"
R= 10.00'
T= 10.01'
L= 15.72'
CH= 14.14'

MEET EXIST HEADER CURB: 30± LT.

P.T. 27.99' LT. ℄ THIRD ST. STA. 12+71.90

P.C. 18' LT. ℄ THIRD ST. STA. 12+61.91

PEACH ALLEY

P.C. 28.01' LT. ℄ THIRD ST. STA. 12+91.90

P.T. 18' LT. ℄ THIRD ST. STA. 13+01.91

DRIVE

741.14 740.76 740.81 741.01 740.66

+25 +50 +75 13+00 +25 +50

℄ THIRD ST.

NOTE:
FOR CURB VERTICAL TAPER SEE ROADWAY DETAIL SHEET

BEGIN CONSTRUCTION STA 49+00

ST. +15

15' FEATHER

20.3' 15.6' 49.00

MEET EX. WALK & CURB STA 49+00

MEET EX. WALK & CURB STA. 49+00

MEET EXIST. ASPHALT

MEET EXIST. ASPHALT

P.C. STA. 49+62.04
20.0' RT. ℄ MARKET ST.

N.W. CURB RETURN
Δ= 89°56'17"
R= 20.00'
T= 19.98'
L= 31.39'
CH= 28.27'

P.C. STA. 49+61.96
20.0' LT. ℄ MARKET ST.

N.E. CURB RETURN
Δ= 90°03'43"
R= 20.00'
T= 20.02'
L= 31.44'
CH= 28.30'

MARKET

℄ DRIVE STA. 4+39

℄ DRIVE STA. 4+41

P.T. STA. 15+26.05
18' LT. ℄ THIRD ST.

P.T. STA. 16+06.05
18' LT. ℄ THIRD ST.

℄ THIRD ST.

℄ MARKET ST. STA. 50+00
℄ THIRD ST. STA. 15+66.01

CURVE "A"
Δ=34°11'10.44"
R=108.00'
T=33.21'
L=64.44'
CH=63.49'
P.C. STA. 49+33.06 - 5.89' LT. ℄ WASH.
P.T. STA. 20+52.86 - 15.60' LT. ℄ THIRD.

CURVE "B"
Δ=143°03'39.89"
R=2.00'
T=5.99'
L=4.99'
CH=3.79'
P.C. STA. 20+52.86 - 15.60' LT. ℄ THIRD
P.T. STA. 20+51.65 - 12.00' LT. ℄ THIRD

N.W. CURB RETURN
Δ=89°56'17"
R=25.00'
T=24.97'
L=39.24'
CH=35.34'

BRICK BLDG.

P.C. 18' LT. ℄ THIRD STA. 19+66.57

SWING POINT - 15' LT. ℄ THIRD STA. 20+08.58

SWING POINT - 4' LT. ℄ WASH. STA. 49+33.71

P.T. - 18' RT. ℄ WASH. STA. 49+57.03

COL - 30 - 35.29
P.C. 18' LT. ℄ WASHINGTON
STA. 48+97.88

N.E. CURB RETURN
Δ=90°03'43"
R=90.00'
T=90.10'
L=141.47'
CH=127.35'

SWING POINT - 14' LT. ℄ THIRD STA. 20+51.66

EXIST. WALK

WASHINGTON

℄ THIRD ST. STA. 20+08.54

℄ WASHINGTON STA. 50+00

MATCH LINE STA. 21+00

CURVE "C"
Δ=116°11'34"
R=3.00'
T=4.83'
L=6.08'
CH=5.09'
P.C. STA. 20+08.58 - 12.00' LT. ℄ THIRD
P.T. STA. 20+05.88 - 16.32' LT. ℄ THIRD

CURVE "D"
Δ=27°51'36.11"
R=60.00'
T=14.88'
L=29.18'
CH=28.89'
P.C. STA. 20+04.60 - 14.94' LT. ℄ THIRD
P.T. STA. 49+57.03 - 2.00' LT. ℄ WASH.

CURVE "E"
Δ=160°59'20.55"
R=2.00'
T=11.94'
L=5.62'
CH=3.95'
P.C. STA. 49+33.71 - 2.00' LT. ℄ WASH.
P.T. STA. 49+33.06 - 5.98' LT. ℄ WASH.

CURVE Nº 1
Δ= 9°05'19" LT.
D_c= 2°15'00"
R= 2546.48'
T= 202.40'
L= 403.95'
CH= 403.52'
E= 8.03'

P.T. 12' LT. ℄ THIRD STA. 21+17.65

P.C. 10' LT. ℄ THIRD STA. 21+53.22
℄ RAMP "O" STA. 992+14.17

MATCH LINE STA. 21+00

CURVE Nº 1

CURVE Nº 1

℄ RAMP "O"

BEGIN TAPER
26' LT. STA. 992+14.17

300' TAPER - 30:1

END TAPER
16' LT.
STA. 995+14.17

100'

P.C.C. STA. 996+18.12

NOSE - 16' RT. ℄ RAMP "O" STA. 996+20.54
69' LT. ℄ 30-39 STA. 996+05.89

CURVE Nº 2
Δ= 20°28'25" LT.
D_c= 3°00'00"
R= 1908.86'
T= 344.80'
L= 682.45'
CH= 678.85'
E= 30.89'
P.C.C. STA. 1003+00.57
46 LT. ℄ 30-39 STA. 1003+00.57

SEE SHT. Nº 102 FOR ELEV. (GRAPHIC) ON ℄ RAMP "O"

CURVE Nº 2

997+00

℄ CURVE DATA
Δ= 328°21'35" LT.
D= 7°00'00"
R= 818.64'
T= 1827.12'
L= 4687.45'
CH= 1610.45'
E= 1589.33'
I= 117.01'
S.C. STA. 993+73.04
P.C.C. STA. 1009+85.50

℄ COL. 30-39

995+00

996+00

997+00

0 10 20 40

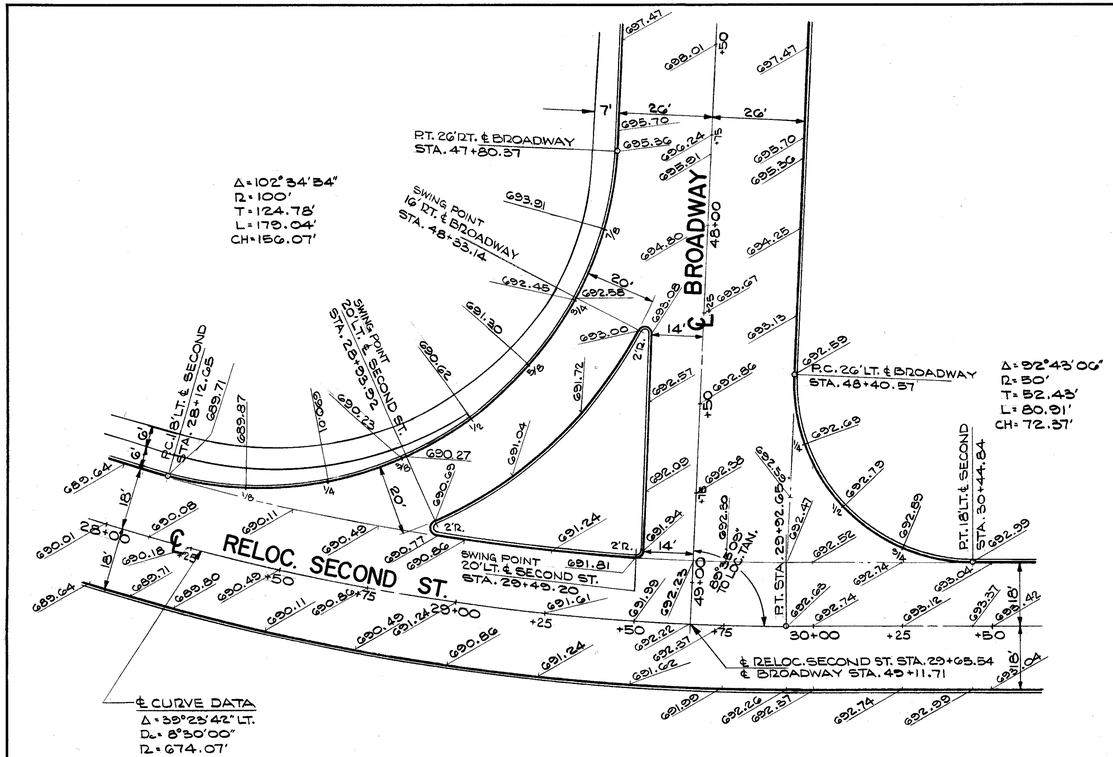
GEOMETRIC PLAN & PAVEMENT DETAIL THIRD ST. & RAMP "O"

PRM PS3 500 6-76 62754+

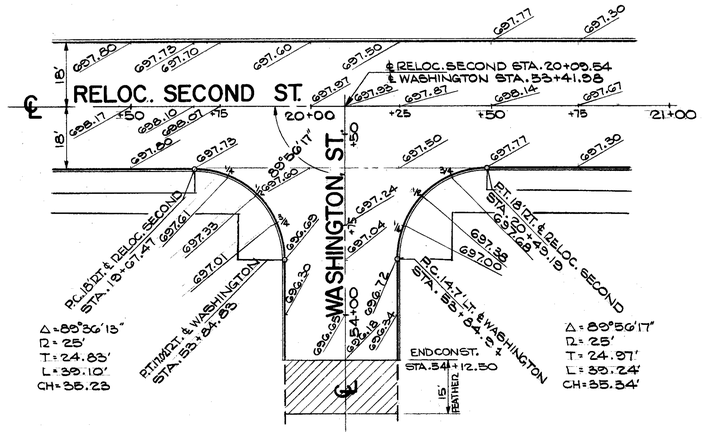
FHWA REGION	STATE	PROJECT	
5	OHIO		

207
362

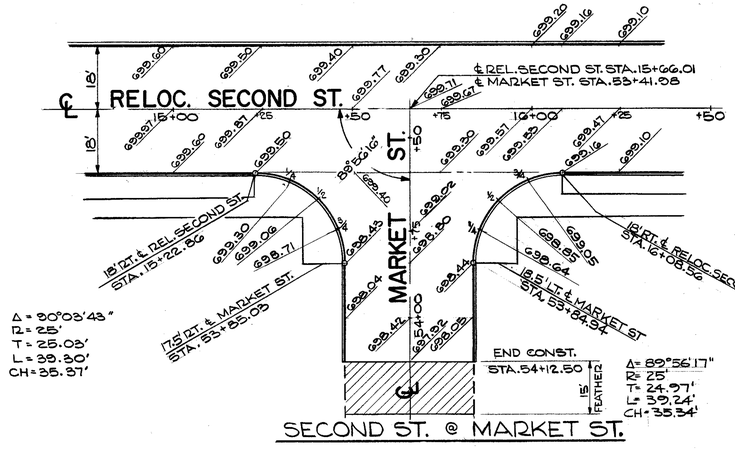
COL - 30 - 35.29



RELOC. SECOND ST. @ BROADWAY

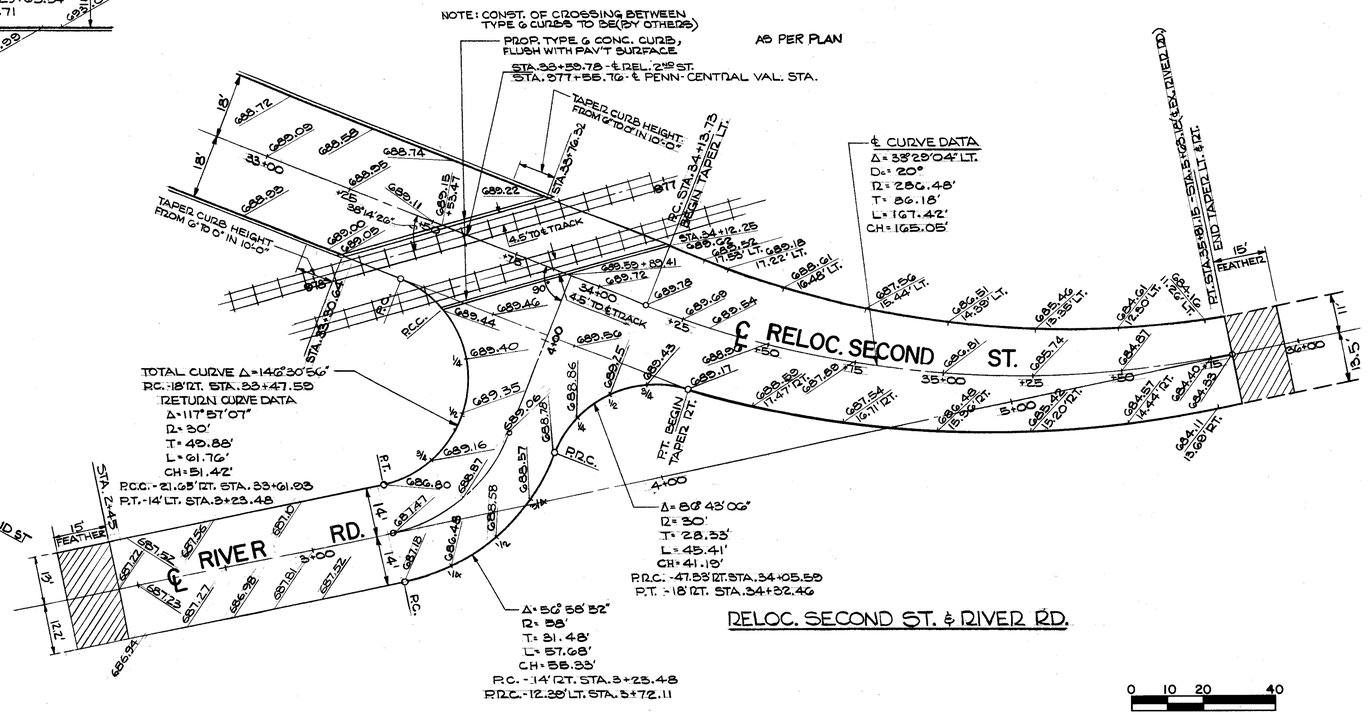


SECOND ST. @ WASHINGTON



SECOND ST. @ MARKET ST.

NOTE: CONST. OF CROSSING BETWEEN TYPE 6 CURBS TO BE (BY OTHERS)



RELOC. SECOND ST. & RIVER RD.

0 10 20 40

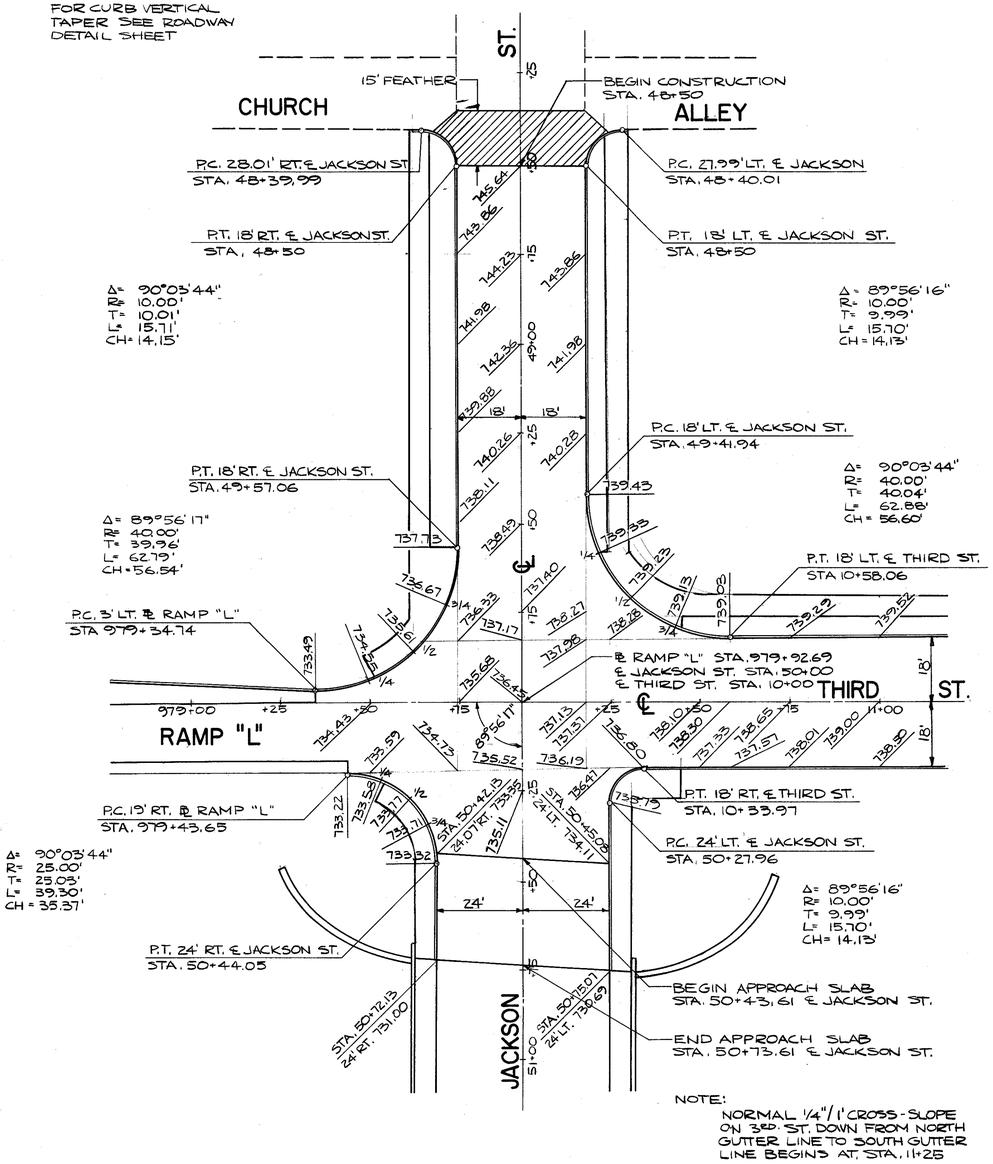
GEOMETRIC PLAN & PAVEMENT DETAILS RELOC. SECOND ST.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829(0)	5	OHIO	U-457	

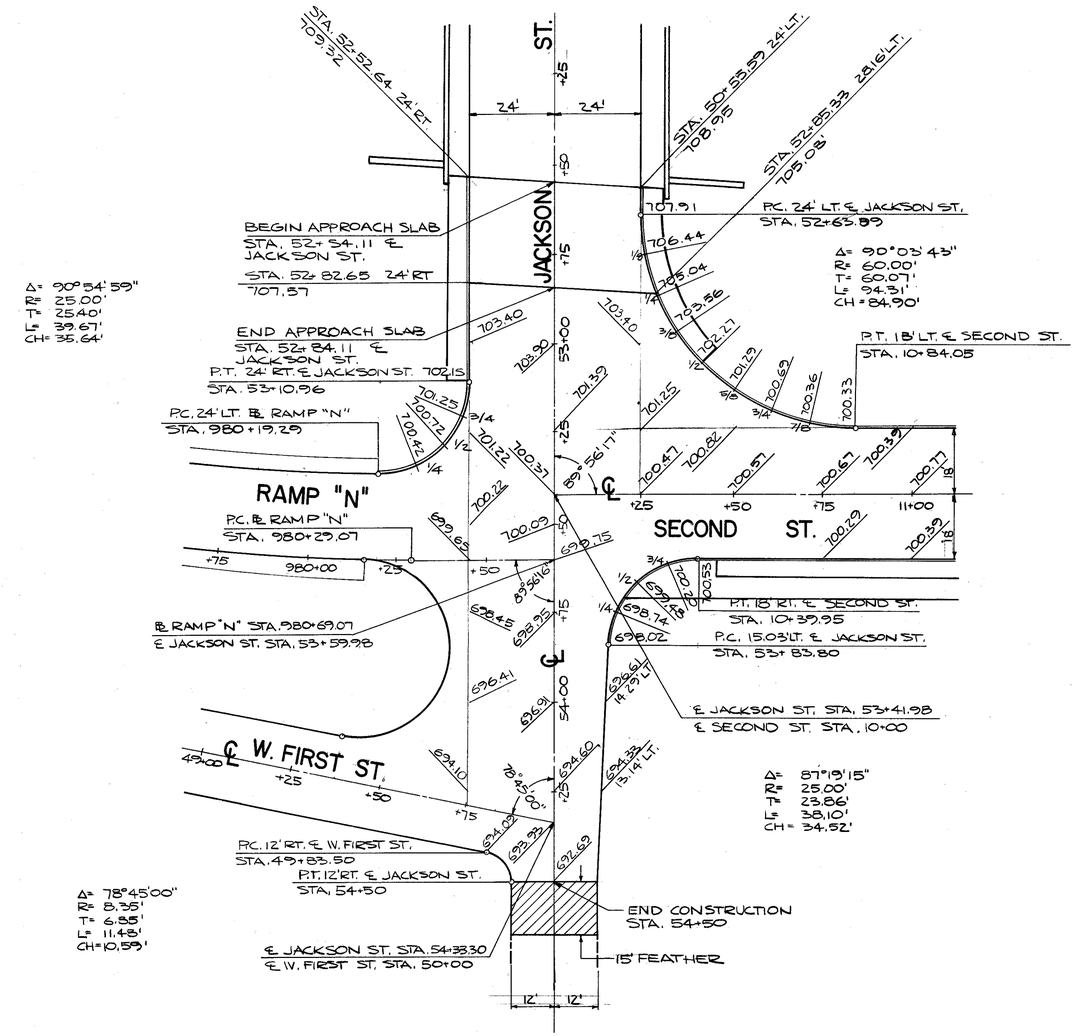
208
362

COL-30-35.29

NOTE:
FOR CURB VERTICAL TAPER SEE ROADWAY DETAIL SHEET



NOTE:
NORMAL 1/4"/1' CROSS-SLOPE ON 3RD. ST. DOWN FROM NORTH GUTTER LINE TO SOUTH GUTTER LINE BEGINS AT STA. 11+25



0 10 20 40

GEOMETRIC PLAN & PAVEMENT DETAIL JACKSON ST.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829(0)	5	OHIO	U-457	

209
362

BEGIN WORK
STA. 29+41.58
E. FOURTH ST.

MEET EXIST. CURB & WALK
STA. 29+41.58

P.C. 18' RT. ℄ E. FOURTH ST.
STA. 29+71.58

P.T. 18' RT. ℄ WASHINGTON ST.
STA. 46+96.09

Δ= 90°03'43"
R= 20.00'
T= 20.02'
L= 31.44'
CH= 28.30'

Δ= 90°03'43"
R= 5.00'
T= 5.01'
L= 7.86'
CH= 7.07

P.C. 18' RT. ℄ WASHINGTON ST.
STA. 48+12.00

P.T. 23.01' RT. ℄ WASHINGTON ST.
STA. 48+17.01

SAW-CUT PVMT. MEET EX. PVMT.

P.T. 27.99' RT. ℄ WASHINGTON ST.
STA 48+37.01

P.C. 18' RT. ℄ WASHINGTON ST.
STA 48+47.00

Δ= 89°56'17"
R= 10.00'
T= 9.99'
L= 15.70'
CH= 14.13'

SWING POINT. -4' LT. ℄
WASHINGTON ST. STA. 49+33.71

12' FEATHER

30' FEATHER

℄ E. FOURTH ST. STA. 30+09.54
℄ WASHINGTON ST. STA. 46+58.96

MEET EXIST CURB & WALK
STA. 30+73

P.C. 18' RT. ℄ E. FOURTH ST.
STA. 30+52.49

P.T. 18' LT. ℄ WASHINGTON ST.
STA. 47+01.91

Δ= 89°56'17"
R= 25.00'
T= 24.97'
L= 39.24'
CH= 35.34'

BEGIN WORK
STA. 46+76.96
WASHINGTON ST.

Δ= 89°56'17"
R= 10.00'
T= 9.99'
L= 15.70'
CH= 14.13'

P.C. 18' LT. ℄ WASHINGTON ST.
STA. 48+07.00

P.T. 27.99' LT. ℄ WASHINGTON ST.
STA. 48+16.99

SAW-CUT PVMT. MEET EX. PVMT.

P.C. 28.01' LT. ℄ WASHINGTON ST.
STA 48+36.99

P.T. 18' LT ℄ WASHINGTON ST.
STA 48+47.00

Δ= 90°03'43"
R= 10.00'
T= 10.01'
L= 15.72'
CH= 14.14'

P.C. 18' LT. ℄ WASHINGTON
STA. 48+97.88

Δ= 90°03'43"
R= 90.00'
T= 90.10'
L= 141.47'
CH= 127.35'

WASHINGTON ST.

CHURCH ALLEY

CURVE "E"
Δ= 160°59'20.55"
R= 2.00'
T= 11.94'
L= 5.62'
CH= 3.95'
P.C. STA. 49+33.71 - 2.00' LT. ℄ WASH.
P.T. STA. 49+33.06 - 5.98' LT. ℄ WASH.

FOR INTERSECTION OF THIRD AND WASHINGTON SEE SHEET 206

EXIST. R/W

PLEASANT ALLEY

EXIST. R/W

MEET EX. T.C.
754.90 B.C.
BEGIN TAPER 20.3' TO 26'
STA 41+75

Δ= 87°37'09"
R= 25'
T= 23.98'
L= 38.23'
CH= 34.61'

EXIST. R/W

℄ E. FOURTH ST. STA. 34+43.45
℄ UNION ST. STA. 46+58.96

EXIST. R/W

E. FOURTH ST.

10' FEATHER

EXIST. R/W

P.C. 18' RT. ℄ FOURTH ST.
STA 35+03.83 MEET EX. T.C.

PT. 26' RT. ℄ BROADWAY
STA. 42+38.22

℄ UNION ST.

Δ= 53°19'24"
R= 10'
T= 5.02'
L= 9.31'
CH= 8.91'

℄ E. FOURTH ST. STA. 35+27.85
℄ BROADWAY STA. 42+30.12

℄ BROADWAY STA. 42+69.80
℄ E. FOURTH ST. STA. 35+27.85

EXIST. R/W

EXISTING

EXIST. R/W

Δ= 126°40'36"
R= 8'
T= 15.93'
L= 17.69'
CH= 14.30'

P.C. 26' RT. ℄ BROADWAY STA. 43+92.07
TAPER 6" TO 0" FROM P.C. TO P.T.

EXIST. R/W

SAW-CUT JOINT
MEET EX. PVMT

CHURCH ALLEY

EXIST. R/W

P.T. 26' RT. ℄ BROADWAY STA. 44+46.22
TAPER 6" TO 0" FROM P.C. TO B/W

Δ= 53°19'24"
R= 10'
T= 5.02'
L= 9.31'
CH= 8.91'

EXIST. R/W

℄ BROADWAY

EXIST. R/W

MEET EX. T.C.
754.90 B.C.
30' FEATHER

EXIST. R/W

P.C. 22.63' LT. ℄ BROADWAY
STA 42+29

EXIST. R/W

P.T. 16.39' LT. ℄ E. FOURTH ST.
STA. 35+76.41

MEET EX. T.C.
749.30 B.C.

℄ E. FOURTH ST.

15' FEATHER

EXIST. R/W

P.C. 16' RT. ℄ E. FOURTH ST.
STA. 35+78.90

MEET EX. CURB
STA. 35+78.90

Δ= 90°04'18"
R= 25'
T= 25.03'
L= 39.30'
CH= 35.38'

END CURB STA. 43+25
T.C. = 742.69 / B.C. = 742.03

P.T. 26' LT. ℄ BROADWAY
STA. 43+10.87 END TAPER

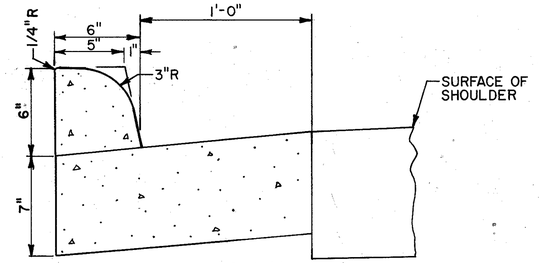
EXIST. R/W

NEW PAVEMENT BEGINS
STA 44+50

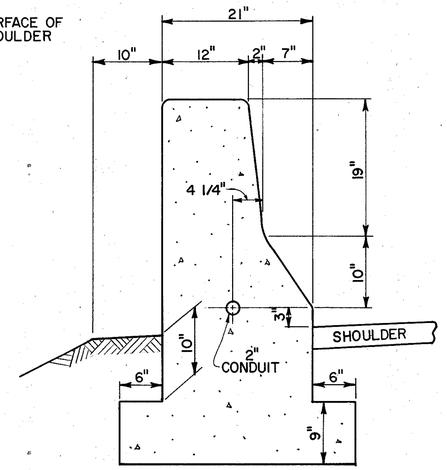
0 10 20 40

GEOMETRIC PLAN & PAVEMENT DETAILS
WASHINGTON ST. FOURTH ST. BROADWAY

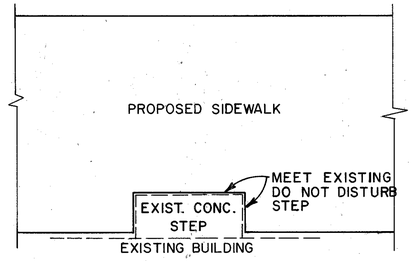
COL-30-35.29



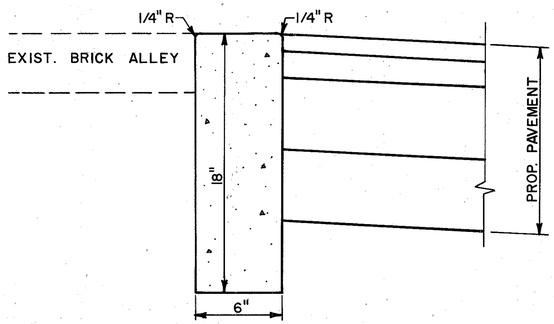
COMBINATION CURB & GUTTER
TYPE 2, AS PER PLAN
NOT TO SCALE



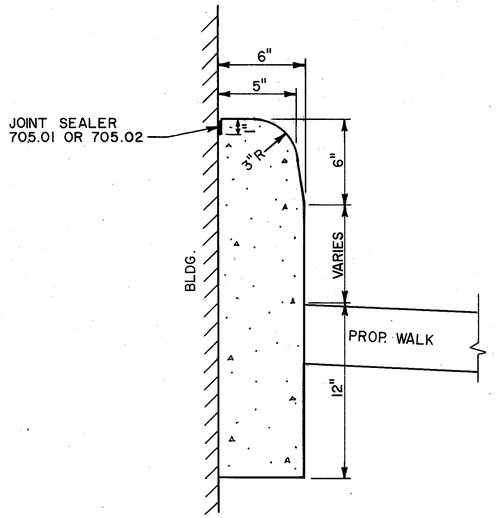
CONCRETE BARRIER
TYPE D, AS PER PLAN
NOT TO SCALE



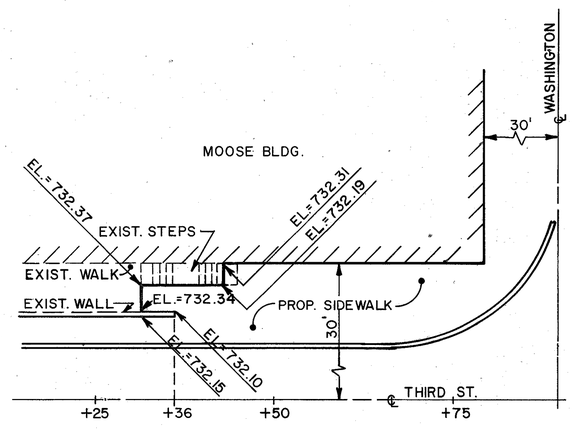
TYPICAL EXISTING STEP DETAIL
NOT TO SCALE



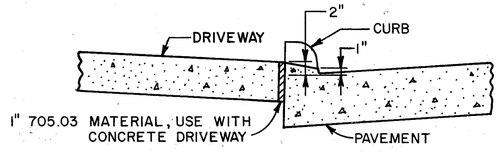
TYPICAL HEADER CURB
TYPE 6 TYPE - 1,
NOT TO SCALE



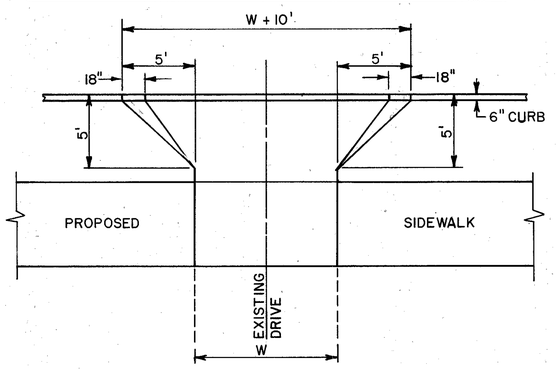
TYPICAL CURB AT KSU BLDG.
TYPE 6 TYPE-2,
NOT TO SCALE



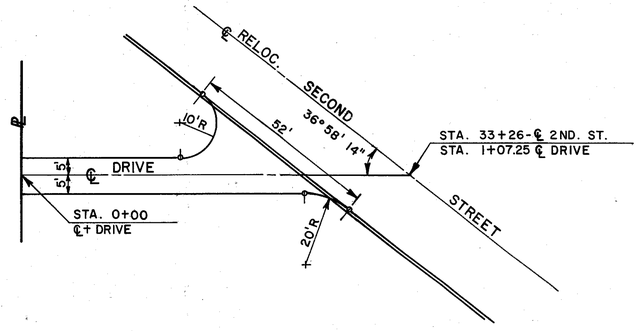
THIRD ST. SIDEWALK DETAIL STA. 19+50
0 10 20 40



DROP CURB DETAILS AT DRIVEWAY N.T.S.

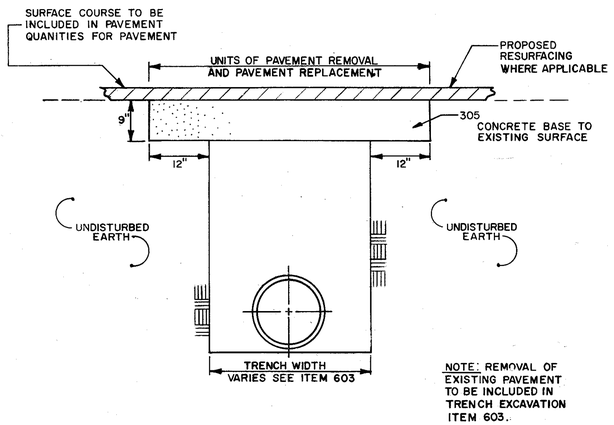


TYPICAL DRIVEWAY DETAIL
0 5 10 20



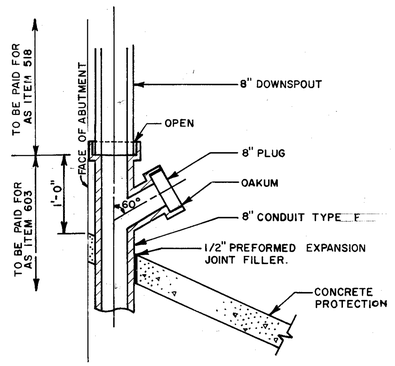
DRIVE DETAIL STA. 33+26 RELOCATED SECOND STREET
NOT TO SCALE

ROADWAY DETAILS



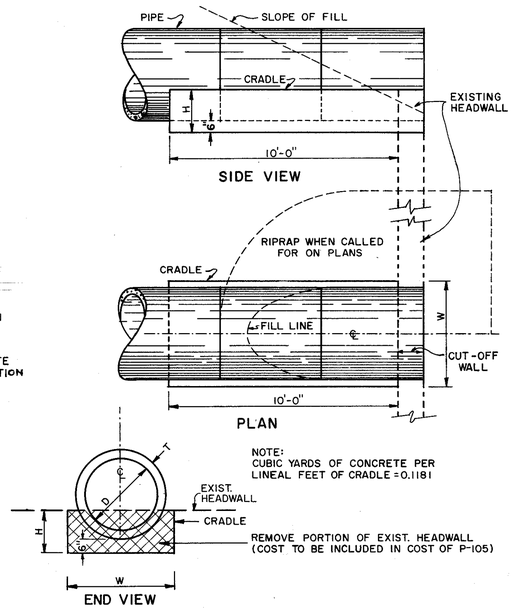
PAVEMENT BASE REPLACEMENT DETAIL

NOT TO SCALE



CLEANOUT DETAIL
ABUTMENT SCUPPER

NOT TO SCALE



CONCRETE CRADLE - HW-3

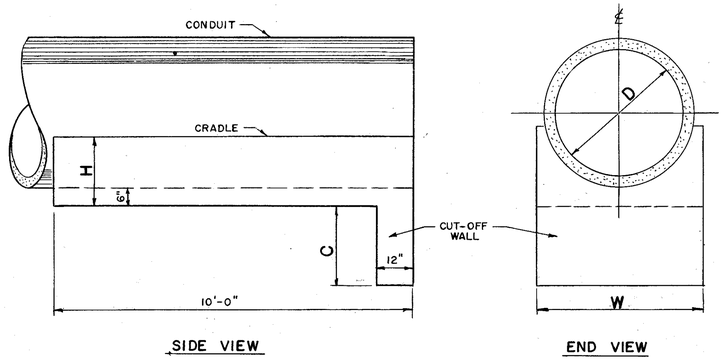
NOT TO SCALE

D	C	H	W	602 CONC. C.Y.
30"	1'-3"	1'-6"	3'-6"	1.33
42"	2'-2"	1'-11"	4'-8"	2.12

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

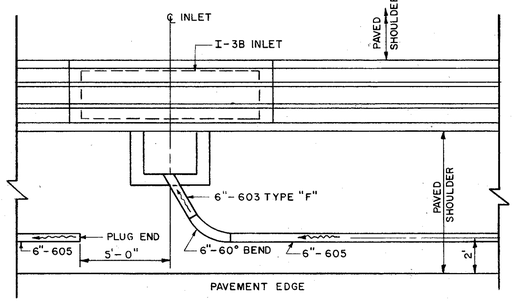
COL-30-35.29

211
362



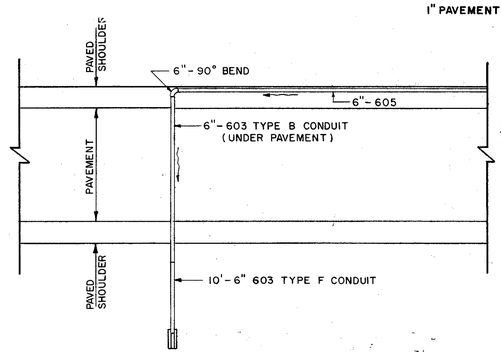
TYPE W CONCRETE HEADWALL DETAIL

0 1 2 4



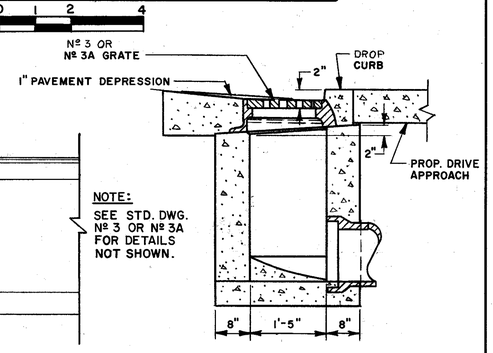
UNDERDRAIN DETAIL

NOT TO SCALE



UNDERDRAIN DETAIL

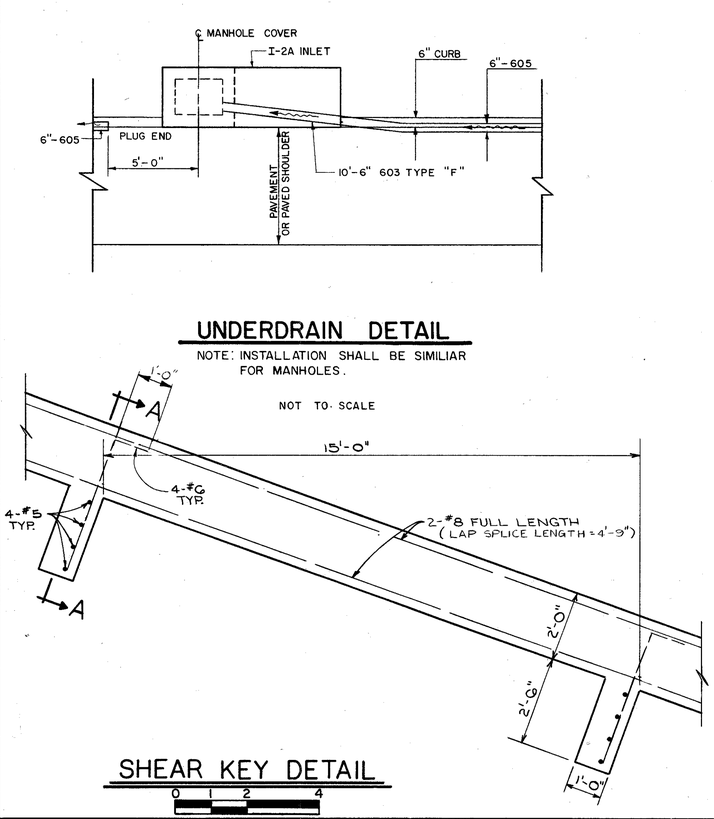
NOT TO SCALE



NOTE:
SEE STD. DWG. Nº 3 OR Nº 3A FOR DETAILS NOT SHOWN.

Nº 3 CATCH BASIN (AS PER PLAN)

0 1 2 3



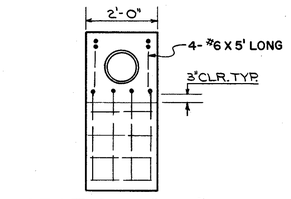
UNDERDRAIN DETAIL

NOTE: INSTALLATION SHALL BE SIMILIAR FOR MANHOLES.

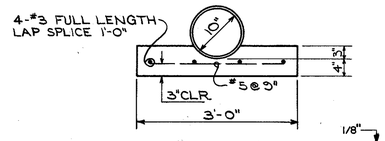
NOT TO SCALE

SHEAR KEY DETAIL

0 1 2 4

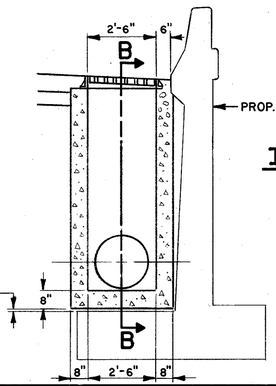


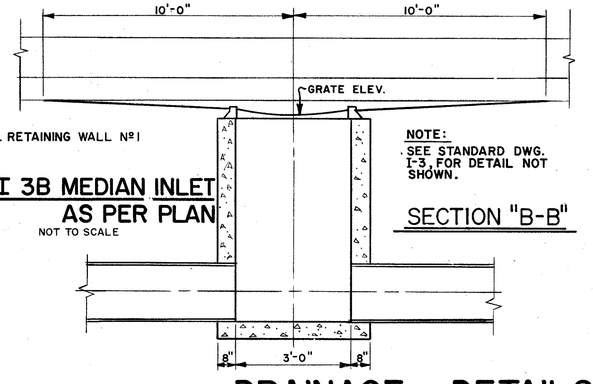
SECTION "A-A"



CONCRETE CRADLE

0 1 2 3





NOTE:
SEE STANDARD DWG. I-3, FOR DETAIL NOT SHOWN.

I 3B MEDIAN INLET AS PER PLAN

NOT TO SCALE

SECTION "B-B"

DRAINAGE DETAILS

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL-30-35.29

212
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BEGIN PROJECT
STA. 963+50 @ Nº 1
SLM-35.29

NEWELL BRIDGE

STREET

FOURTH STREET

STREET

MONROE

ALLEY

STREET

JEFFERSON

CHURCH

STREET

ALLEY

STREET

ALLEY

ALLEY

S.C. STA. 966+05.72

WEST FIRST STREET

WEST THIRD STREET

RAMP "L"

RAMP "N"

WING WALL

P.C.C. STA. 974+30.67

℄ 30-39

PROP. RETAINING WALL

WEST SECOND STREET

W. FIRST ST.

PINK

ALLEY

OHIO RIVER

(PENN CENTRAL RAILROAD)

CONRAIL

STREET

CONRAIL

(PENN CENTRAL RAILROAD)

CONRAIL

JACKSON

MARKET

WASHINGTON

MATCH LINE STA. 990+00

SAN.

965 970 975 980 985

11 12 13 14 15 16 17 18 19

46 47 48 49 51 52 53

RC 1 RC 2

A 1 A 2 A 3 A 4 A 5 A 6 A 7 A 8 A 9 A 10 A 11 A 12 A 13 A 14 A 15 A 16 A 17 A 18 A 19 A 20 A 21 A 22 A 24 A 25 A 26 A 27 A 28 A 29 A 30 A 31 A 32 A 34 A 35 A 36 A 40 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 54 A 55 A 59 A 60 A 73 A 75 A 76 A 77 A 78 A 79

A 137 A 138 A 139 A 140 A 141 A 142 A 143 A 150 A 202 A 203 A 301 A 302 A 303 A 304 A 306 A 314 A 305

AJ 100

SCALE
0 100 200 300

GENERAL SEWER PLAN

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL - 30 - 35.29

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362

END PROJECT
STA. 1010+50 B Nº 1
SLM 36.18

N

MATCH LINE STA. 990+00

W. FOURTH ST.

EAST FOURTH ST.

WASHINGTON

CHURCH ALLEY

ALLEY STREET

BROADWAY

APPLE

HIGH ALLEY

GROVE

HIGH ALLEY

WALNUT

COLLEGE ST.

SUGAR

ELM ST.

THIRD STREET

THIRD

EAST

RAMP "O"

RAMP "M"

℄ 30-39

P.C.C. STA. 1009+83.59

NOSE STA. 1007+00-35' RT ℄ 30-39 RAMP "M"
STA. 1007+00-16' LT ℄ RAMP "M"

SECOND STREET

RELOCATED SECOND ST.

PINK ALLEY

UNION

PENN. CENTRAL

RIVER ROAD

SAN.

STM.

RC 300

RC 4

SCALE
0 100 200 300

GENERAL SEWER PLAN

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL - 30 - 35.29

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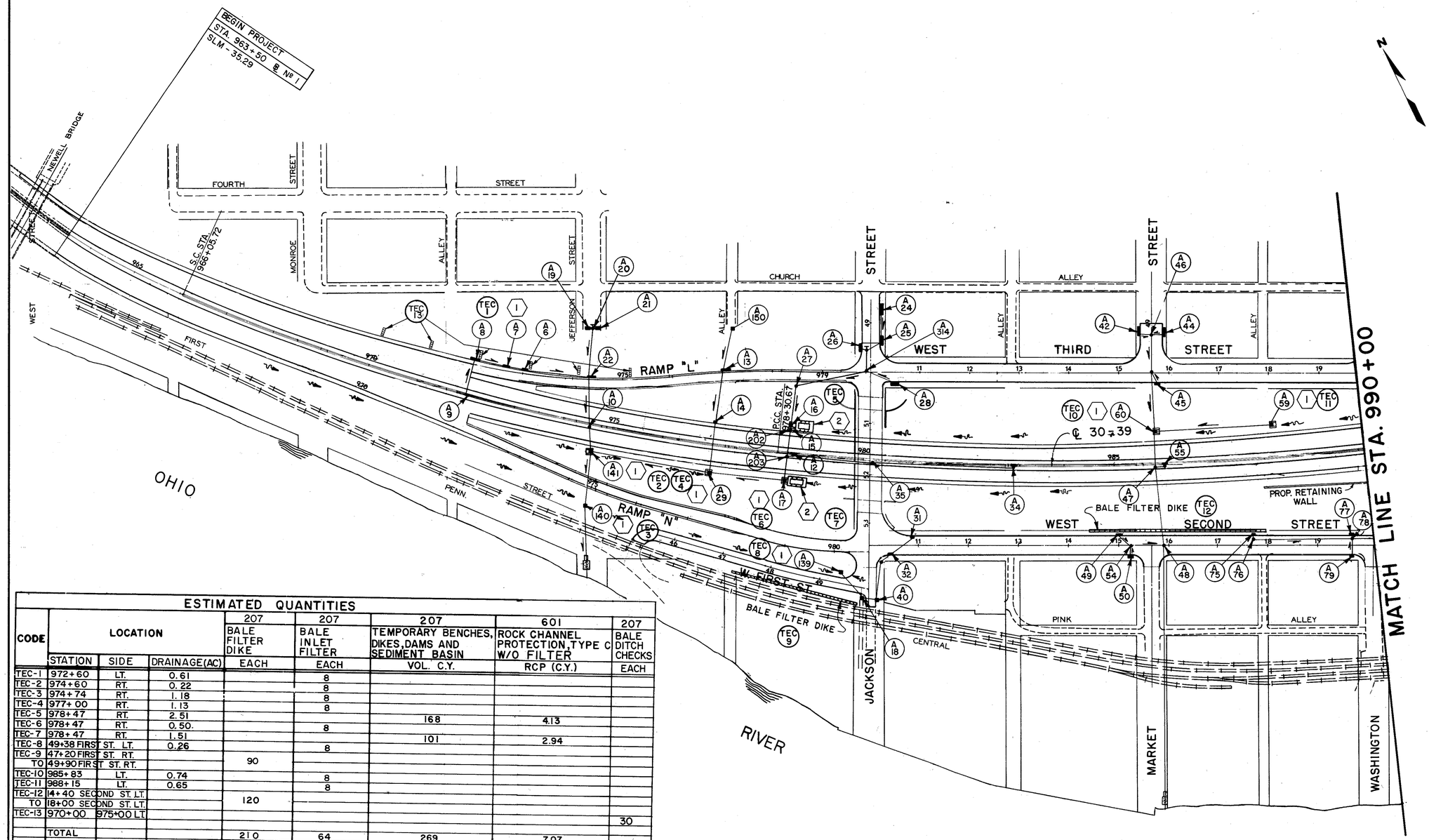
362



ESTIMATED QUANTITIES

CODE	LOCATION			207 BALE FILTER DIKE	207 BALE INLET FILTER	207 TEMPORARY BENCHES, DIKES, DAMS AND SEDIMENT BASIN	601 ROCK CHANNEL PROTECTION, TYPE C W/O FILTER	207 BALE DITCH CHECKS
	STATION	SIDE	DRAINAGE (AC)	EACH	EACH	VOL. C.Y.	RCP (C.Y.)	EACH
TEC-1	972+60	LT.	0.61		8			
TEC-2	974+60	RT.	0.22		8			
TEC-3	974+74	RT.	1.18		8			
TEC-4	977+00	RT.	1.13		8			
TEC-5	978+47	RT.	2.51			168	4.13	
TEC-6	978+47	RT.	0.50		8			
TEC-7	978+47	RT.	1.51			101	2.94	
TEC-8	49+38 FIRST ST.	LT.	0.26		8			
TEC-9	47+20 FIRST ST.	RT.		90				
TO	49+90 FIRST ST.	RT.						
TEC-10	985+83	LT.	0.74		8			
TEC-11	988+15	LT.	0.65		8			
TEC-12	14+40 SECOND ST.	LT.		120				
TO	18+00 SECOND ST.	LT.						
TEC-13	970+00	975+00 LT.						30
	TOTAL			210	64	269	7.07	
								30

NOTE:
ALL LOCATIONS AND DIMENSIONS OF TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS REQUIRED OR AS DESIGNATED BY THE ENGINEER.

LEGEND
- SEDIMENT BASIN
- BALE INLET FILTER
- BALE FILTER DIKE
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED DITCH

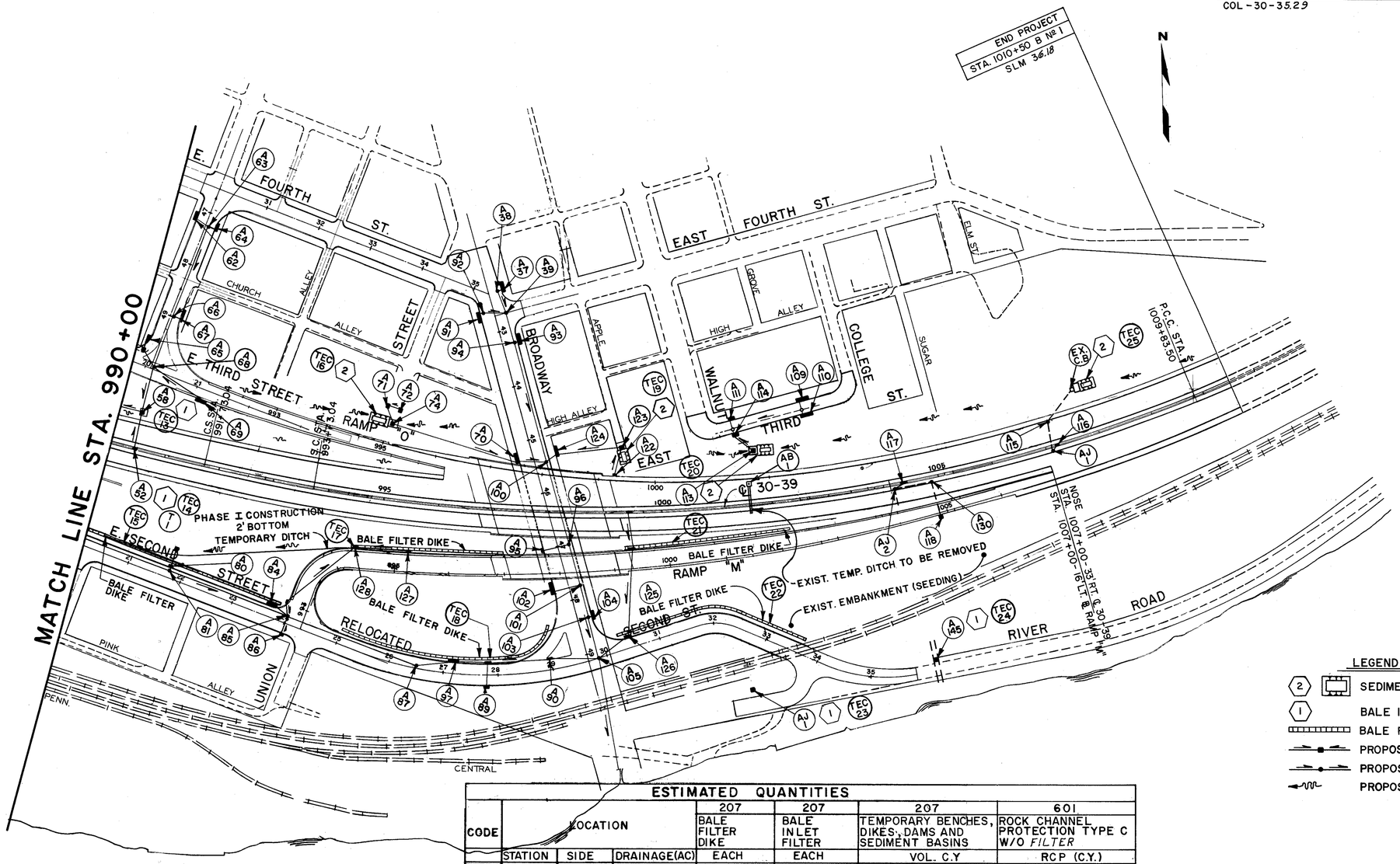
SCALE
0 100 200 300

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL-30-35.29

215
362



LEGEND

- SEDIMENT BASIN
- BALE INLET FILTER
- BALE FILTER DIKE
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED DITCH

SCALE
0 100 200 300

ESTIMATED QUANTITIES

CODE	LOCATION			207 BALE FILTER DIKE	207 BALE INLET FILTER	207 TEMPORARY BENCHES, DIKES, DAMS AND SEDIMENT BASINS	601 ROCK CHANNEL PROTECTION TYPE C W/O FILTER
	STATION	SIDE	DRAINAGE(AC)	EACH	EACH	VOL. C.Y	RCP (C.Y.)
TEC-13	990+45	LT.	0.84		8		
TEC-14	21+75 SECOND ST.	LT.	0.85		8		
TEC-15	20+75 SECOND ST.	LT.		123			
TO	23+85 SECOND ST.						
TEC-16	995+00	LT.	1.94			130	3.48
TEC-17	995+20	TO		93			
	997+00						
TEC-18	25+00 RELOC. 2ND LT.			233			
TO	48+35 BROADWAY LT.						
TEC-19	999+37	LT.	1.28			86	2.64
TEC-20	100+75	LT.	3.10			208	4.76
TEC-21	999+25	RT.		98			
TO	1002+20	RT.					
TEC-22	30+30 RELOC. 2ND. LT.			112			
TO	33+65 RELOC. 2ND. LT.						
TEC-23	2+67 RIVER RD. LT.		0.22		8		
TEC-24	36+22 RIVER RD. LT.		0.18		8		
TEC-25	1007+60	LT.				150	3.83
	TOTAL			659	32	574	14.71

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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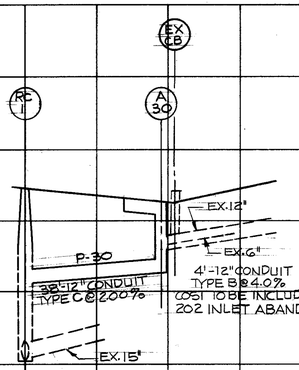
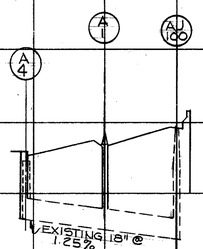
COL-30-35.29

EX.-CB
EXISTING INLET TO BE ABANDONED
STA. 968+48-42' LT. & №1
EX. TOP = 702.23
℄ 12" = (EX.) = 698.13
℄ 6" = (EX.) = 698.49

A-30
604 - №2A-12 INLET
STA. 968+48-45.70' LT. & №1
TOP = 701.38
℄ WINDOW = 700.71
℄ 6" = 698.33
℄ 12" = (W) = 697.97
℄ 12" = (N) = 696.33

RC-1
604 MANHOLE RECONSTRUCTED TO GRADE
STA. 963+05
EXISTING OFFSET 46' LT. & №1
PROP. OFFSET 48.5' LT. & №1
EX. TOP = 702.73
PROP. TOP = 702.86
℄ 12" = 695.57
℄ 15" = 690.50
℄ 18" (EX.) = 690.20

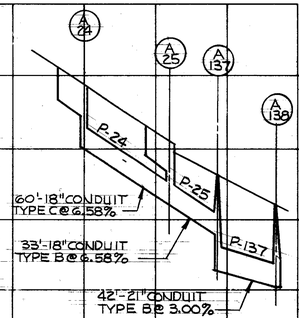




A-4
604 №2A-12 INLET
STA. 966+26-54.65' LT. & №1
℄ WINDOW = 697.37
EXIST. 18" ℄ = 693.06

A-1
604 №1-3B INLET (GRATE RT.)
STA. 966+26-B №1
℄ WINDOW = 698.51
℄ EXIST. 18" = 692.40

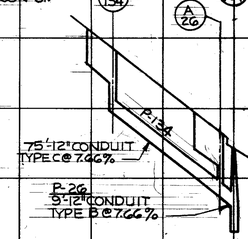
AU-100
604 M.H. ADJUSTED TO GRADE
STA. 966+26-51' RT. & №1
EXIST. COVER = 699.32
PROP. COVER = 699.58
EXIST. 18" (N) = 691.73
EXIST. 24" (E) = 691.68



A-24
604 - №2A-20 INLET
STA. 48+75-18' LT. & JACKSON
℄ WINDOW = 743.69
INV. 18" = 740.00

A-25
604 №2A-20 INLET
STA. 49+35-18' LT. & JACKSON
℄ WINDOW = 739.74
INV. 18" = 734.05

A-137
604 №1 MANHOLE
STA. 49+56-10' RT. & JACKSON ST.
TOP = 738.06
INV. 18" (E) = 733.88
INV. 12" (W) = 733.17
INV. 21" (N) = 731.44



A-134
604 №2A-12 INLET
STA. 48+75-18' RT. & JACKSON ST.
℄ WINDOW = 743.69
INV. 12" = 739.60

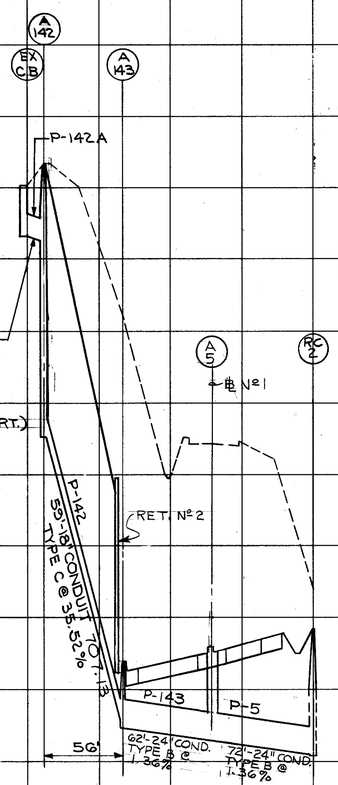
A-26
604 №2A-12 INLET
STA. 49+80-18' RT. & JACKSON ST.
℄ WINDOW = 737.94
INV. 12" = 733.86

EX. C.B.
STA. 51+78.84-8.35' LT.
℄ MONROE ST.
EX. GRATE = 730.11
℄ EX. 18" (S) = 726.53
℄ 18" (PROP.) = 726.53

A-142
604 №2 MANHOLE
STA. 51+75-20' RT.
℄ MONROE ST.
TOP = 731.69
℄ 18" = 726.17
℄ 18" = 712.50

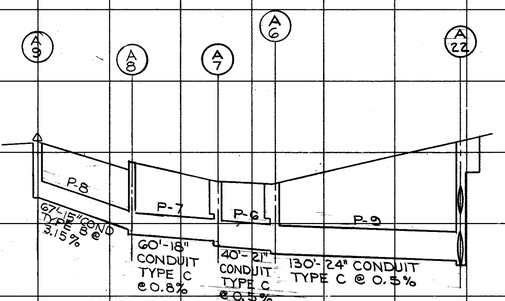
A-143
604 №1 MANHOLE
STA. 968+75-62' LT. & №1
TOP = 696.80
℄ 18" = 692.72
℄ 24" = 692.22

121'-18" CONDUIT TYPE B @ 3.00%



RC-2
604 MH RECONSTRUCTED TO GRADE
STA. 968+70.17-71.67' RT. & №1
PROP. TOP = 699.00
EX. TOP = 701.87
℄ 24" (PROP.) = 690.82
℄ 36" (EX. S.) = 690.32
℄ 12" (EX. INV.) = 692.39 (TO BE ABND)
℄ 24" (EX. N.) = 690.41 (TO BE ABND)
℄ 24" (EX. W.) = 690.46

A-5
604 - №1-3B INLET (GRATE RT.)
STA. 968+72-BL №1
℄ WINDOW = 697.26
℄ 24" = 691.38



A-22
604 №2A-16 INLET
STA. 974+32-8' LT. & RAMP L
TOP = 696.52
℄ WINDOW = 695.92
℄ 21" = (N) = 690.75
℄ 24" = (W) = 687.43
℄ 27" = (S) = 687.19

A-202
604 №2 MANHOLE
STA. 978+47-45' LT. & №1
COVER ELEV. = 692.72
℄ 15" = 685.15
℄ 42" = 683.09

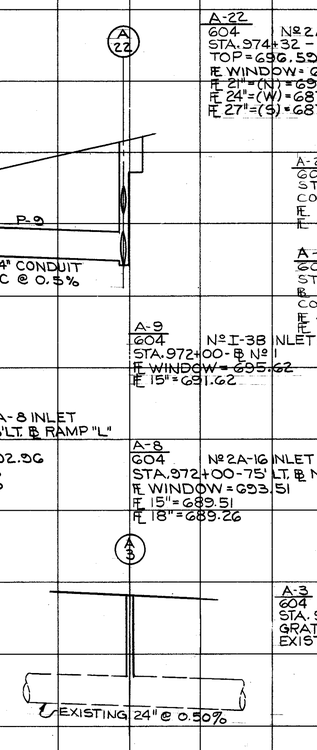
A-203
604 №2 MANHOLE
STA. 978+47-5' RT.
№1
COVER ELEV. = 692.81
℄ 42" = 682.99
℄ 15" = 685.98

A-9
604 №1-3B INLET (GRATE RT.)
STA. 972+00-℄ №1
℄ WINDOW = 695.62
℄ 15" = 691.62

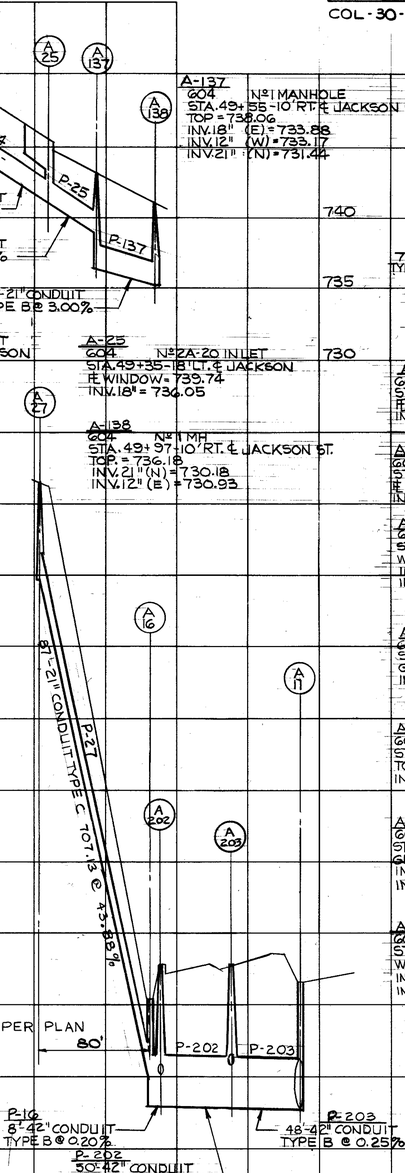
A-6
604 №2A-10 INLET
STA. 973+00-8' LT. & RAMP "L"
TOP = 693.48
℄ WINDOW = 692.81
℄ 24" 688.08

A-7
604 №2A-8 INLET
STA. 972+60-8' LT. & RAMP "L"
TOP = 693.68
℄ WINDOW = 692.96
℄ 18" = 688.78
℄ 21" = 688.53

A-8
604 №2A-16 INLET
STA. 972+00-75' LT. & №1
℄ WINDOW = 693.51
℄ 15" = 689.51
℄ 18" = 689.26



A-3
604 I-3B MEDIAN INLET
STA. 966+75.53-59' RT & №1
GRATE EL. = 699.62
EXIST. 24" ℄ = 691.44



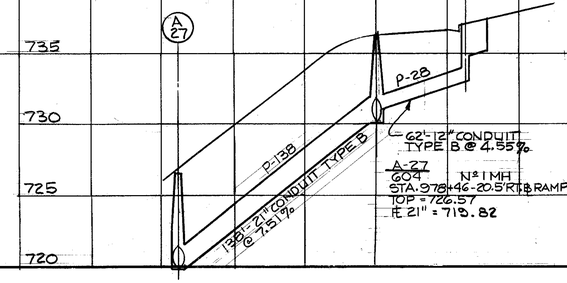
A-12
604 №1-3B INLET (GRATE RT.)
STA. 978+57 ℄ №1
WINDOW ELEV. = 692.46
INV. 15" = 686.06
INV. 42" = 682.87

A-17
604 №5A C.B.
STA. 978+47-53 RT. ℄ №1
GRATE ELEV. 691.35
INV. 42" = 682.87

A-27
604 №1 MH
STA. 978+46-20.5' RT. ℄ RAMP L
TOP = 726.57
INV. 21" = 719.82

A-16
604 №5A C.B.
STA. 978+47-53 LT. ℄ №1
GRATE ELEV. = 690.40
INV. 42" = 683.11
INV. 21" = 684.72

A-15
604 №2A-6 INLET
STA. 978+57-42' LT. ℄ №1
WINDOW ELEV. = 692.16
INV. 6" = 685.99
INV. 15" = 685.25



A-27
604 №1 MH
STA. 978+46-20.5' RT. ℄ RAMP L
TOP = 726.57
℄ 21" = 719.82

A-28
604 - №2A-14 INLET
STA. 10+47-18' RT. ℄ W. THIRD ST.
℄ WINDOW = 737.00
INV. 12" = 733.00
INV. 6" = 734.67

A-138
604 №1 M.H.
STA. 49+97-10' RT. ℄ JACKSON ST.
TOP = 734.18
INV. 21" (N) = 730.18
INV. 12" (E) = 730.93
INV. 21" (W) = 730.18

PIPE PROFILES SHOWN

PIPE №	SHEET №
P-5	53
P-6	55
P-7	55
P-8	55
P-9	55
P-16	58
P-24	67
P-25	58 & 67
P-26	58
P-27	58
P-28	58 & 63
P-30	52
P-134	58
P-137	56
P-138	58
P-142	53
P-142A	53
P-143	53
P-202	58
P-203	58
A-3	53

STORM SEWER PROFILES

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

A-150
604 Nº 3A CB
STA. 977+21-88' LT. ℄ RAMP L
℉ WINDOW = 740.00
℉ 15" = 736.50

A-13
604 Nº 2A-20 INLET
STA. 977+00 - 8' LT. ℄ RAMP L
TOP = 715.69
℉ WINDOW = 715.02
℉ 15" = 711.07

A-14
604 Nº 2A-8 INLET
STA. 977+00 - 42' LT. ℄ Nº 1
TOP = 692.91
℉ WINDOW = 692.24
℉ 15" = 685.91
℉ 21" = 685.41

A-29
604 Nº 5A CB
STA. 977+00 53' RT. ℄ Nº 1
GRATE = 692.55
℉ 42" = 682.33
℉ 21" = 684.10

A-20
604 Nº 1 MANIFOLD
STA. 49+10 - ℄ JEFFERSON ST.
TOP = 737.60
℉ 12" = 733.60
℉ 21" = 729.89

A-22
604 Nº 2A-16 INLET
STA. 974+32 - 8' LT. ℄ RAMP L
TOP = 697.52
℉ 21" = 690.75
℉ 24" = 687.43
℉ 27" = 687.19

A-10
604 Nº 2 MANHOLE
STA. 974+50 - 6' RT. ℄ Nº 1
TOP = 694.71
℉ 27" = 685.29

A-141
604 Nº 5A C.B.
STA. 974+60 - 53' RT. ℄ Nº 1
GRATE = 693.80
INV. 42" = 681.47
INV. 27" = 684.35

A-140
604 Nº 2-4 CATCH BASIN W/WINDOW
STA. 974+74-161' RT. ℄ Nº 1
GRATE ELEV. = 686.17
INV. 42" = 680.39

A-29
604 Nº 5A CB
STA. 977+00-53' RT. ℄ Nº 1
GRATE = 692.55
INV. 21" = 684.10
INV. 42" = 682.33

A-17
604 Nº 5A CB
STA. 978+57-53' RT. ℄ Nº 1
GRATE ELEV. = 691.55
INV. 42" = 682.74

A-20
604 Nº 1 MH
STA. 49+10 ℄ JEFFERSON ST.
TOP = 737.60
℉ 12" = 733.02
℉ 21" = 729.89
℉ 18" = 732.45

A-19
604 Nº 2A-12 W/CONCRETE APRON
STA. 49+10-15' RT ℄ JEFFERSON ST.
TOP = 737.30
℉ WINDOW = 736.63
℉ 12" = 734.00

A-21
604 Nº 2A-12 W/CONCRETE APRON
STA. 49+10-14' LT ℄ JEFFERSON ST
TOP = 737.40
℉ WINDOW = 736.73
℉ 18" = 733.50

HW-20
TYPE W CONCRETE HEADWALL
STA. 53+76-11' RT. JEFFERSON ST.
INV. 42" = 675.85
FOR DETAIL
SEE SHT. Nº32

P-133 — PLUG — 4'-21" CONDUIT TYPE B @ 6.00%

@ INV. 6" SAN. 728.58

101'-0"

1" = 20'-0"

℄ 6" SANITARY SEWER

81'

℄ 6" SANITARY

INV. 6" 731.31

82'-15" CONDUIT TYPE C (707.13) @ 31.40%

P-150

102'

102'-15" CONDUIT TYPE B (707.13) @ 24.67%

P-13

P-14

57'-21" CONDUIT TYPE "B" @ 1.4%

108'-21" TYPE C (707.13) CONDUIT @ 8.75%

P-20

℄ RAMP "L"

℄ Nº 1

95'-27" TYPE B CONDUIT @ 2.00%

685.29

47'-27" TYPE B CONDUIT @ 2.00%

P-22

P-10

111'-42" CONDUIT TYPE B (706.02 1250 D-LOAD) @ 1.00%

P-141

P-140

109'-42" CONDUIT TYPE B (706.02 3000 D-LOAD) UNDER RAIL ROAD (AS PER PLAN) @ 4.37%

EXISTING R/R CULVERT TO REMAIN

242'-42" CONDUIT TYPE C @ 0.35%

157'-42" CONDUIT TYPE C @ 0.26%

P-29

P-17

14'-12" CONDUIT TYPE B @ 7.00%

15'-18" CONDUIT TYPE B @ 7.00%

P-19

P-21

15'

CP-1

15'X8' TYPE A ROCK CHANNEL PROTECTION 48" THICK W/FILTER

PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-10	55	P-150	58
		P-141	55
P-13	58		
P-14	58		
P-17	58		
P-19	55		
P-20	55		
P-21	55		
P-22	55		
P-29	55 & 58		
P-133	55		
P-140	55		

STORM SEWER PROFILES

AA 15/Pe 73202

FHWA REGION	STATE	PROJECT	
5	OHIO		

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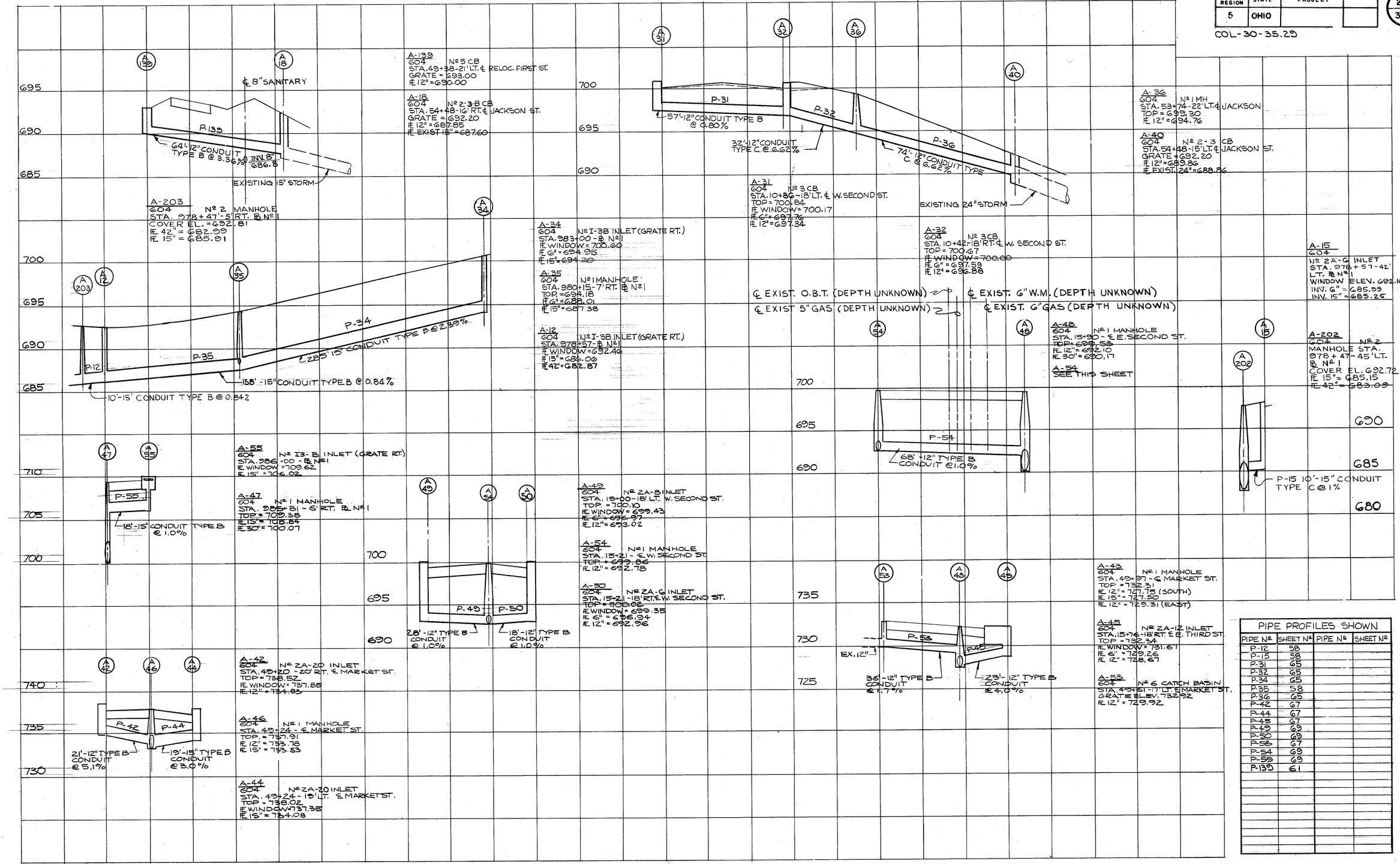

PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-12	58		
P-15	58		
P-31	65		
P-32	65		
P-34	65		
P-35	58		
P-36	65		
P-42	67		
P-44	67		
P-45	67		
P-49	69		
P-50	69		
P-53	67		
P-54	69		
P-55	69		
P-139	61		

STORM SEWER PROFILES

AA B/P# 73302

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

A-60
604 Nº 5 CATCH BASIN
STA. 985+85-62' LT. ℄ Nº 1
GRATE ELEV. = 707.58
℄ 15" = 704.10
℄ 30" = 700.25
℄ 6" = 702.90
℄ 27" = 700.50

A-59
604 Nº 5 CATCH BASIN
STA. 988+15-65' LT. ℄ Nº 1
GRATE ELEV. = 713.85
℄ 30" = 709.69
℄ 27" = 709.69

A-58
604 Nº 5 CATCH BASIN
STA. 990+45-65' LT. ℄ Nº 1
GRATE ELEV. 720.78
℄ 15" = 717.78
℄ 30" = 716.53
℄ 24" = 717.03

A-52
604 Nº H-38 INLET (GRATE R.T.)
STA. 980+41. ℄ Nº 1
℄ WINDOW 722.85
℄ 6" = 718.97
℄ 15" = 719.66

A-52
604 Nº 5 CATCH BASIN
STA. 990+45-65' LT. ℄ Nº 1
GRATE ELEV. = 720.78
℄ 15" = 717.78
℄ 30" = 716.53
℄ 24" = 717.03

A-46
604 Nº 1 MANHOLE
STA. 43+24 - ℄ MARKET ST.
TOP = 737.91
℄ 12" = 733.78
℄ 15" = 733.53

A-43
604 Nº 1 MANHOLE
STA. 49+97 - ℄ MARKET ST.
TOP = 732.31
℄ 12" = 727.75 (SOUTH)
℄ 15" = 727.50
℄ 12" = 729.31 (EAST)

A-60
604 Nº 5 CATCH BASIN
STA. 985+85-62' RT. ℄ Nº 1
GRATE ELEV. = 707.58
℄ 27" = 700.50
℄ 15" = 704.10
℄ 30" = 700.25
℄ 6" = 702.90

A-47
604 Nº 1 MANHOLE
STA. 985+81-6' RT. ℄ Nº 1
TOP = 709.38
℄ 15" = 705.84
℄ 30" = 697.53
℄ 6" = 703.38

A-48
604 Nº 1 MANHOLE
STA. 15+90 + ℄ E. SECOND ST.
TOP = 699.53
℄ 12" = 692.10
℄ 30" = 690.17

A-73
604 Nº 2-3 CATCH BASIN W/WINDOWS
STA. 55+57+24' LT. ℄ MARKET ST.
℄ WINDOW = 689.67
℄ 30" = 685.61

HW-2
TYPE W CONCRETE HEADWALL
STA. 58+36+23' LT. ℄ MARKET ST.
℄ 30" = 672.71
FOR DETAILS SEE SHT. Nº. 211.

P-45 117'-15" TYPE B (107.13) CONDUIT @ 2.0%

P-46 87'-15" TYPE B CONDUIT @ 10.5%

P-43 117'-15" TYPE B (107.13) CONDUIT @ 2.00%

P-60 168'-30" TYPE B CONDUIT @ 4.0%

P-59 228'-27" TYPE C CONDUIT @ 4.0%

P-58 228'-30" TYPE C CONDUIT @ 3.0%

P-47 153'-30" TYPE B CONDUIT @ 4.6%

P-48 221'-30" TYPE B CONDUIT @ 3.8%

P-52 64'-15" TYPE B CONDUIT @ 2.9%

P-73 280'-30" TYPE B CONDUIT (100.02 3000 D LOAD) UNDER RAILROAD (AS PER PLAN) @ 3.9%

℄ R.R. TRACKS

15'

CP-2

15'X6' TYPE A ROCK CHANNEL PROTECTION 48" THICK W/FILTER

PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-45	67 & 69		
P-46	67		
P-47	69		
P-48	69 & 72		
P-52	76		
P-58	69		
P-59	69		
P-60	69		
P-73	72		

STORM SEWER PROFILES

AA B/P# 73202

FHWA REGION	STATE	PROJECT	
5	OHIO		

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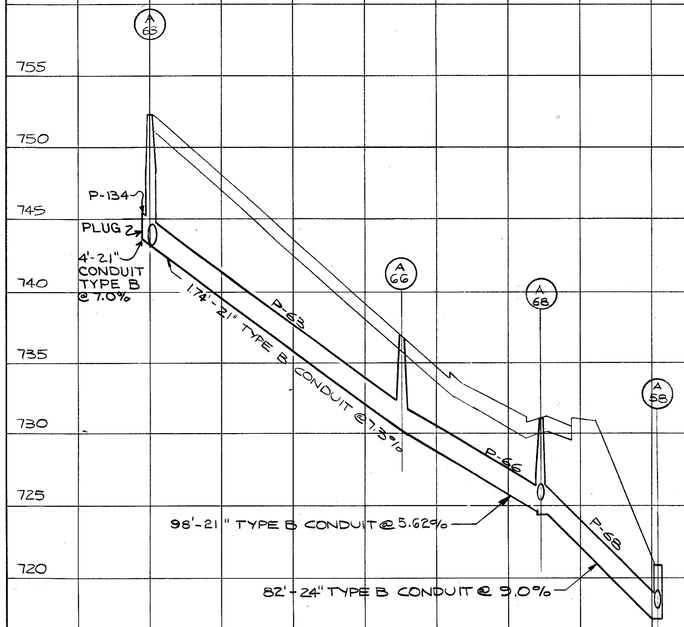
COL-30-35.29

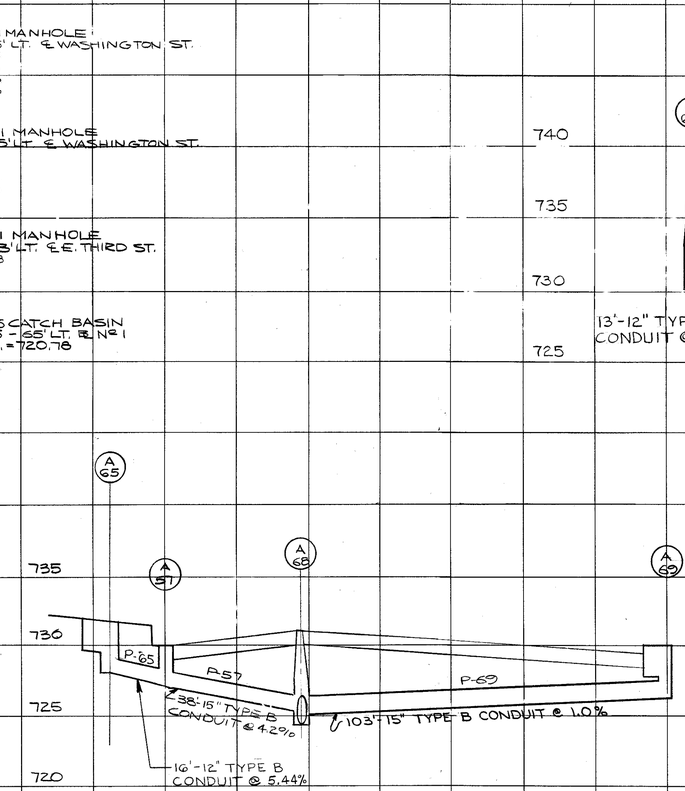


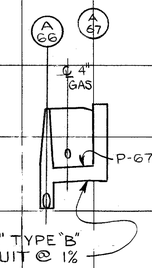
A-63
604 Nº 1 MANHOLE
STA. 47+26 - 5' LT. ℄ WASHINGTON ST.
TOP = 752.25
℄ 12" = 743.58
℄ 15" = 743.33
℄ 21" = 742.83

A-66
604 Nº 1 MANHOLE
STA. 49+45 - 5' LT. ℄ WASHINGTON ST.
TOP = 733.36
℄ 12" = 727.49
℄ 21" = 726.74
℄ 24" = 726.49

A-68
604 Nº 1 MANHOLE
STA. 20+14 - 3' LT. ℄ E. THIRD ST.
TOP = 730.98
℄ 12" = 725.37
℄ 24" = 724.37

A-58
604 Nº 5 CATCH BASIN
STA. 990+45 - 165' LT. ℄ Nº 1
GRATE ELEV. = 720.78
℄ 15" = 717.78
℄ 24" = 717.03





A-65
604 Nº 2A-14 INLET
STA. 49+55.5 - 8' RT. ℄ WASHINGTON ST.
TOP = 731.50
℄ WINDOW 730.83
℄ 6" = 727.42
℄ 12" = 727.83

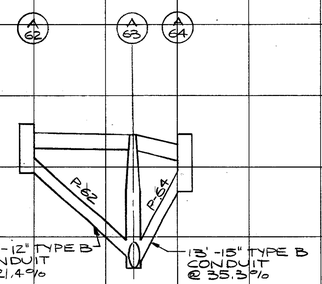
A-66
604 Nº 1 MANHOLE
STA. 49+45 - 5' LT. ℄ OF WASHINGTON ST.
TOP = 736.97
℄ 12" = 731.87
℄ 21" = 730.13

A-67
604 Nº 2A-18 INLET
STA. 48+96 - 18' LT. ℄ WASHINGTON ST.
TOP = 737.31
℄ WINDOW = 736.64
℄ 6" = 733.99
℄ 12" = 732.00

A-57
604 Nº 6 CATCH BASIN
STA. 49+71 - 21' RT. ℄ WASHINGTON ST
GRATE ELEV. 729.96
℄ 12" = 726.96

A-68
604 Nº 1 MANHOLE
STA. 20+14 - 3' LT. ℄ E. THIRD ST.
TOP = 730.98
℄ 12" = 725.37
℄ 24" = 724.51
℄ 15" = 725.14

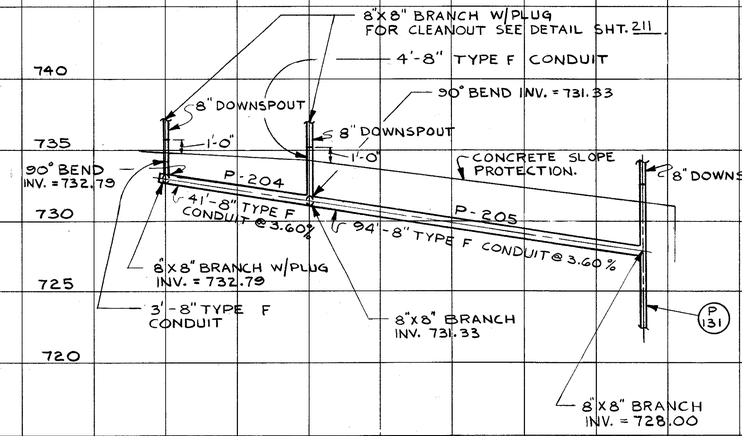
A-69
604 Nº 2A-20 INLET
STA. 21+15 - 18' RT. ℄ E. THIRD ST.
TOP = 729.92
℄ WINDOW = 729.25
℄ 6" = 726.84
℄ 15" = 726.17



A-62
604 Nº 2A-20 INLET
STA. 47+14 - 18' RT. ℄ WASHINGTON ST.
TOP = 753.07
℄ WINDOW = 752.40
℄ 6" = 749.74
℄ 12" = 749.57

A-63
604 Nº 1 MANHOLE
STA. 47+26 - 5' LT. ℄ WASHINGTON
TOP = 752.25
℄ 12" = 743.58
℄ 15" = 743.33
℄ 21" = 742.83

A-64
604 Nº 2A-20 INLET
STA. 47+26 - 18' LT. ℄ WASHINGTON ST.
TOP = 752.21
℄ WINDOW = 751.54
℄ 6" = 748.88
℄ 15" = 748.27



PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-57	73		
P-62	73		
P-63	73		
P-64	73		
P-65	73		
P-66	73		
P-67	73		
P-68	73 & 76		
P-69	73		
P-134	73		
P-204	83		
P-205	83		

STORM SEWER PROFILES

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL-30-35.29

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HORZ. SCALE: 1"=20' HORZ. SCALE: 1"=50'

A-39
G04 Nº1 MANHOLE
STA. 42+70~20' LT.
℄ BROADWAY
TOP=746.25
FE 12"=742.13
FE 15"=741.88

A-94
G04 Nº1 MANHOLE
STA. 43+27~22' LT.
℄ BROADWAY
TOP=740.15
FE 12"=735.60
FE 15"=735.44
FE 18"=735.15

P-38 45'-15" TYPE B CONDUIT @ 11.25%

P-39 57'-15" TYPE B CONDUIT @ 11.25%

P-37~4'-15" TYPE B CONDUIT @ 5.0%

A-37
G04 Nº2A-20 INLET
STA. 42+27~22' LT. ℄ BROADWAY
TOP=750.52
FE WINDOW=749.85
FE 15"=746.58

A-38
G04 Nº1 MANHOLE
STA. 42+30~18' LT. ℄ BROADWAY
TOP=750.12
FE 15"=746.38
FE EXIST. 15"=746.76

2/3'-18" TYPE B CONDUIT @ 9.76%

P-84

154'-21" TYPE B CONDUIT @ 3.93%

P-100

75'-21" TYPE B CONDUIT @ 8.32%

P-96

62'-24" TYPE B CONDUIT @ 5.0%

P-101

74'-24" TYPE B CONDUIT @ 5.3%

P-103

206'-30" TYPE B CONDUIT (106.02 3000 D-LOAD) (AS PER UNDER RAILROAD PLAN) @ 5.0%

P-105

A-100
G04 Nº1 MANHOLE
STA. 45+46~22' LT.
℄ BROADWAY
TOP=717.92
FE 18"(N)=713.82
FE 21"(W)=712.39
FE 15"(E)=714.07
FE 21"(S)=712.39

A-96
G04 Nº1 MANHOLE
STA. 47+00~22' LT.
℄ BROADWAY
TOP=702.06
FE 12"=698.58
FE 21"=697.06

A-101
G04 Nº1 MANHOLE
STA. 47+76~22' LT.
℄ BROADWAY
TOP=695.72
FE 12"=691.57
FE 21"=690.82
FE 24"=690.57

A-103
G04 Nº1 MANHOLE
STA. 48+37~22' LT.
℄ BROADWAY
TOP=693.28
FE 12"=689.56
FE 24"=687.47

A-105
G04 Nº1 MANHOLE
STA. 49+11~19' LT.
℄ BROADWAY
TOP=692.44
FE 24"(N)=683.52
FE 15"(E)=688.94
FE 24"(W)=683.52
FE 30"(S)=683.02

℄ R.R. TRACKS HW 3

30" S.A.N.

HW-3
CONCRETE CRADLE
STA. 51+12
℄ BROADWAY
FE 30" 672.72
FOR DETAILS SEE SHEET Nº 211.

8"X8" BRANCH W/PLUG CLEANOUT SEE DETAIL SHT. 211.

8" DOWNSPOUT

3'-8" TYPE F CONDUIT

1'-0"

FACE OF ABUTMENT Nº1

CONCRETE SLOPE PROTECTION.

61'-8" TYPE F CONDUIT @ 18.05%

90° BEND INV. 8"=729.49

FACE OF ABUTMENT Nº. 1

8"X8" BRANCH W/PLUG CLEANOUT SEE DETAIL SHT. 211.

8" DOWNSPOUT

1'-0"

CONCRETE SLOPE PROTECTION

P-132 54'-8" TYPE F CONDUIT @ 20.7%

3'-8" TYPE F CONDUIT

90° BEND INV.=710.24

EXIST. 18" STM. TO BE ABAND.
EXIST. ℄ WATER DEPTH UNKNOWN
EXIST. 10" GAS ℄ DEPTH UNKNOWN

P-95
48'-12" TYPE B CONDUIT @ 0.8%

A-95
G04 Nº 3A CATCH BASIN
STA. 47+00~26' RT.
℄ BROADWAY
TOP=702.49
FE WINDOW=701.81
FE 6"=699.50
FE 12"=699.00

A-96
SEE THIS SHT.

A-104
G04 Nº2A-18 INLET
STA. 48+38~26' LT.
℄ BROADWAY
TOP=693.17
FE WINDOW=692.50
FE 6"=690.09
FE 12"=689.59

P-104
4'-12" TYPE B CONDUIT @ 0.8%

A-103
SEE THIS SHT.

A-91
G04 Nº2A-14 INLET
STA. 42+60~26' RT.
℄ BROADWAY
TOP=747.48
FE WINDOW=746.91
FE 6"=744.00
FE 12"=743.91

P-92
41'-12" TYPE B CONDUIT @ 4.0%

P-91~7'-12" TYPE B CONDUIT @ 2.0%

A-92
G04 Nº1 MANHOLE
STA. 42+60~19' RT
℄ BROADWAY
TOP=747.18
FE 12"=743.77
FE EXIST. 12" 741.61

A-39
SEE THIS SHT.

A-93
G04 Nº2A-14 INLET
STA. 43+27~26' LT.
℄ BROADWAY
TOP=740.60
FE WINDOW=739.94
FE 6"=737.12
FE 12"=736.69

A-94
SEE THIS SHT.

P-93
4'-12" TYPE B CONDUIT @ 25.0%

A-74
G04 Nº 5 CATCH BASIN
STA. 395+00~138' LT. ℄ Nº1
GRATE EL.=718.23
FE 12"=716.03
FE 24"=715.03

℄ EXIST. ℄ W.M. (DEPTH UNKNOWN)
℄ EXIST. 10" GAS (DEPTH UNKNOWN)

℄ 4" GAS (DEPTH UNKNOWN)

℄ PROP. 6" SAN.

℄ PROP 10" SAN.

P-74

P-72

P-71

24'-12" CONDUIT TYPE B @ 3.00%

25'-12" CONDUIT TYPE C @ 13.00%

240'-24" CONDUIT TYPE C 706.02 706.08 E.S. OR 707.13 @ 0.60%

INV. 6" 716.11

INV. 10" 712.07

P-70

℄ PROP. 10" SAN.

50'-21" CONDUIT TYPE B @ 0.90%

A-100
SEE THIS SHT.

A-72
G04 Nº3 CATCH BASIN
STA. 49+10-12± LT.
℄ UNION ST.
TOP=723.35
FE WINDOW=722.68
FE 12"=720.00

A-71
G04 Nº3 CATCH BASIN
STA. 49+10-12± RT.
℄ UNION ST.
TOP=723.37
FE WINDOW=722.70
FE 12"=719.28

A-70
G04 Nº2A-20 INLET
STA. 45+25-26' LT.
℄ BROADWAY
TOP=720.50
FE WINDOW=719.88
FE 6"=717.42 (UNDERDRAIN)
FE 24"(W)=713.58
FE 21"(E)=712.84
FE 8"(W)=716.00

℄ BROADWAY

P-102
48'-12" TYPE B CONDUIT @ 2.0%

A-102
G04 Nº2A-12 INLET
STA. 47+76~26' RT.
℄ BROADWAY
TOP=696.14
FE WINDOW=695.47
FE 6"=693.09
FE 12"=692.47

A-101
SEE THIS SHT.

90° BEND 710.97

8"X8" BRANCH CLEANOUT SEE DETAIL SHT. 211.

P-206
38'-8" TYPE F CONDUIT @ 2.21%

8" BRANCH W/PLUG INV. 710.97

EXISTING HEADWALL TO REMAIN

ELEV. 664.70 NORMAL RIVER POOL

EXISTING 24" VIT. STORM SEWER TO REMAIN.

PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-37	81		
P-38	81		
P-39	81		
P-70	83		
P-71	83		
P-72	76 & 83		
P-74	83		
P-91	81		
P-92	81		
P-93	81		
P-94	81 & 83		
P-95	83		
P-96	83		
P-100	83		
P-101	83 & 86		
P-102	83		
P-103	86		
P-104	86		
P-105	86 & 90		
P-131	83		
P-132	83		
P-206	83		

STORM SEWER PROFILES

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

A-97
604 Nº2A-18 INLET
STA. 27+20-18' LT. ℄ SECOND ST.
℄ WINDOW = 689.90
℄ G" = 687.44
℄ 21" = 686.04
℄ 24" = 685.79

A-75
604 Nº 2A-10 INLET
STA. 17+70-18 LT.
℄ E. SECOND ST.
TOP = 699.02
℄ WINDOW = 698.35
℄ G" = 695.81
℄ 12" = 695.35

A-79
604 Nº 2A-8 INLET
STA. 19+68-18' RT.
℄ E. SECOND ST.
TOP = 698.23
℄ WINDOW = 697.56
℄ G" = 695.15
℄ 12" = 694.19

A-76
604 Nº1 MANHOLE
STA. 17+70-14' LT.
℄ E. SECOND ST.
TOP = 698.60
℄ 12" = 695.33

A-75
DATA TO THE RT. OF THIS SHT.

198'-12" TYPE B CONDUIT @ 0.78%

4'-12" TYPE B CONDUIT @ 0.50%

A-78
604 Nº1 MANHOLE
STA. 19+68-14' LT.
℄ E. SECOND ST.
TOP = 697.81
℄ 12"(W) = 693.79
℄ 12"(N) = 694.63
℄ 12"(S) = 694.00
℄ 15"(E) = 693.54

P-78
207'-15" CONDUIT TYPE B @ 0.80%

A-78
SEE THIS SHT.

A-79
DATA TO THE RT. OF THIS SHT.

A-81
604 Nº1 MANHOLE
STA. 21+75-14' LT.
℄ E. SECOND ST.
TOP = 696.98
℄ 15"(W) = 691.88
℄ 12" = 693.44

P-81
225'-15" CONDUIT TYPE B @ 1.0%

A-85
604 Nº1 MANHOLE
STA. 24+04-14' LT.
℄ E. SECOND ST.
TOP = 695.69
℄ 15"(W) = 689.67
℄ 12"(S) = 690.40
℄ 12"(N) = 692.16
℄ 12"(W) = 692.43
℄ 21"(E) = 689.17

P-85
243'-21" CONDUIT TYPE B @ 0.95%

A-87
604 Nº1 MANHOLE
STA. 26+30-4' LT.
℄ E. SECOND ST.
TOP = 691.50
℄ 21" = 686.86

P-87
60'-21" CONDUIT TYPE "B" @ 1.19%

A-88
604 Nº2A-10 INLET
STA. 27+83-18' LT. ℄ SECOND ST.
TOP = 690.11
℄ WINDOW = 685.44
℄ G" = 687.03
℄ 24" = 685.33
℄ 12" = 686.27

P-97
61'-24" CONDUIT TYPE "C" @ 0.75%

℄ EX. 24" ST. (ABAND.)
℄ EX. 16" SAN. (ABAND.)

P-88
115'-24" CONDUIT TYPE B @ 0.90%

A-90
604 Nº2A-6 INLET
STA. 29+00-18' LT.
℄ E. SECOND ST.
TOP = 691.37
℄ WINDOW = 690.70
℄ G" = 688.29
℄ 24" = 684.29

P-90
86'-24" CONDUIT TYPE B @ 0.90%

AS PER PLAN

A-105
604 Nº1 MANHOLE
STA. 49+12-19' LT.
℄ BROADWAY
TOP = 692.51
℄ 24"(N) = 684.71
℄ 15"(E) = 688.94
℄ 24"(W) = 683.52
℄ 30"(S) = 683.02

A-77
604 Nº 2A-8 INLET STA. 19+68 18' LT. ℄ E. SECOND ST.
TOP = 698.23
℄ WINDOW = 697.56
℄ G" = 695.15
℄ 12" = 694.65

P-77
4'-12" CONDUIT TYPE B @ 0.55%

P-79
32'-12" CONDUIT TYPE B @ 0.60%

A-120
604 Nº I-3B INLET (GRATE RT.)
STA. 999+43
℄ Nº 1
℄ WINDOW = 745.61
℄ G" = 741.61
℄ 15" = 740.86

P-120
73'-15" TYPE B 706.02 TO 15" CONDUIT @ 2.74%
2000 D LOAD OR 707.13

A-88
SEE THIS SHT.

P-89
36'-12" CONDUIT TYPE B @ 1.00%

A-89
604 Nº3 CATCH BASIN
STA. 27+83-18' RT.
℄ E. SECOND ST.
TOP = 690.11
℄ WINDOW = 689.44
℄ G" = 687.03
℄ 12" = 686.53

A-105
SEE THIS SHEET

A-120
604 Nº I-3B INLET (GRATE RT.)
STA. 999+86.80-℄ Nº 1
℄ WINDOW = 746.18
℄ G" = 742.20
℄ 15" = 741.45

A-84
604 Nº 2A-18 INLET
STA. 23+75-18' LT.
℄ E. SECOND ST.
TOP = 696.31
℄ WINDOW = 695.64
℄ G" = 693.23
℄ 12" = 692.73

A-85
SEE THIS SHT.

30'-12" CONDUIT TYPE B @ 1.00%

32'-12" CONDUIT TYPE B 0.60%

A-86
604 Nº 2A-8 INLET
STA. 24+04-18' RT.
℄ E. SECOND ST.
TOP = 696.10
℄ WINDOW = 695.44
℄ G" = 693.03
℄ 12" = 690.59

A-85
SEE THIS SHT.

151'

155'-15" CONDUIT TYPE B @ 23.40%, 706.02 - 2000 D LOAD OR 707.13

P-125

75'-15" CONDUIT TYPE B @ 1.00%

P-126

A-122
604 Nº G CATCH BASIN
STA. 999+15-64.35' LT. ℄ Nº 1
℄ GRATE 742.75
℄ G" = 738.55
℄ 15" = 737.80

A-124
604 Nº 2A-20 INLET
STA. 45+46-26' LT. ℄ BROADWAY
TOP = 718.34
℄ WINDOW = 717.67
℄ G" = 714.76
℄ 15" = 714.15

A-123
604 Nº 5 CATCH BASIN
STA. 999+37-117' LT. ℄ Nº 1
GRATE ELEVATION = 718.83
℄ 15" = 716.14

54'-15" TYPE B (707.13) CONDUIT @ 40.11%

P-122

P-123
129'-15" TYPE C CONDUIT @ 1.50%

P-124
4'-15" TYPE B CONDUIT @ 2.00%

A-100
604 Nº1 MANHOLE
STA. 45+46-22' LT.
℄ BROADWAY
TOP = 717.92
℄ 18"(N) = 713.82
℄ 21"(W) = 712.39
℄ 15"(E) = 714.07
℄ 21"(S) = 712.39

℄ EXIST. 15" STORM SEWER
STA. 348+70-11' RT.
℄ WALNUT ST.
℄ 15"(EX.) = 733.4±

P-112
8'-12" CONDUIT TYPE B @ 1.00%

℄ EXIST. 18" STORM SEWER
STA. 348+70-12' LT.
℄ WALNUT ST.
℄ 18"(EX.) = 733.5±

P-119
8'-12" CONDUIT TYPE B @ 1.00%

A-112
604 Nº3 CATCH BASIN
STA. 9+88-18' RT.
℄ WALNUT ST.
TOP = 736.22
℄ WINDOW = 735.55
℄ 12" = 733.60

A-81
SEE THIS SHT.

A-80
604 Nº 2A-8 INLET
STA. 21+75-18' LT. ℄ SECOND
TOP = 697.40
℄ WINDOW = 696.73
℄ G" = 694.32
℄ 12" = 693.48

P-80
4'-12" CONDUIT TYPE B @ 1.00%

A-119
604 Nº3 CATCH BASIN
STA. 9+88-18' LT.
℄ WALNUT ST.
TOP = 736.71
℄ WINDOW = 736.04
℄ 12" = 733.83

A-125
604 Nº 2A-18 INLET
STA. 999+25-27.25' LT. ℄ RAMP M
TOP = 730.63
℄ WINDOW = 730.02
℄ G" = 725.77
℄ 15" = 725.02

A-126
604 Nº 3 CATCH BASIN
STA. 30+47-18' LT. ℄ RELOC. SECOND ST.
TOP = 693.52
℄ WINDOW = 692.85
℄ G" = 690.44
℄ 15" = 689.69

PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-112	88	P-97	86
P-75	69	P-112	88
P-76	69		
P-77	69		
P-78	69 & 78		
P-79	69		
P-80	78		
P-81	78		
P-84	78		
P-85	78 & 86		
P-86	78		
P-87	86		
P-88	86		
P-89	86		
P-90	86		
P-119	88		
P-120	88		
P-122	88		
P-123	83 & 88		
P-124	83		
P-125	88 & 90		
P-126	90		

STORM SEWER PROFILES

FHWA REGION	STATE	PROJECT	
5	OHIO	U-457(14)	

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COL-30-35.29

RC-4
604 MANHOLE
RECONSTRUCT TO GRADE *
STA. 352+58 - 37' RT.
℄ WALNUT ST.
EXIST. TOP = 696.50
PROP. TOP = 691.50
FE 24" (EXIST.) = 686.62
FE 27" (EXIST.) = 685.68
FE 12" = 688.00
(STUB TO A-106)
* USE FLAT SLAB

P-106
17'-12" CONDUIT TYPE C @ 1.00%

A-106
Nº 2A-10 INLET
STA. 32+0 - 18' LT. ℄ RELOC. SECOND ST.
TOP = 691.75
FE WINDOW = 691.08
FE 6" = 688.67
FE 12" = 688.17

A-117
604 Nº I-3B INLET (GRATE RT.)
STA. 1004+22 - ℄ Nº 1
FE WINDOW = 745.36
FE 6" 745.52
FE 12" = 745.02

AJ-2
604 MANHOLE ADJ. TO GRADE
STA. 1004+07.6 - 6' RT. ℄ Nº 1
EXIST. TOP = 745.63
PROP. TOP = 745.44
FE 12" STUB (EX.) = 743.90
FE 33" (EX.) = 736.77

P-117
15'-12" TYPE "B" CONDUIT @ 7.5%
EXIST. 12" STUB

P-111
18'-12" CONDUIT TYPE B @ 1.00%

P-114
6'-15" CONDUIT TYPE B @ 4.00%

32'-15" CONDUIT TYPE B @ 4.00%

P-107
39'-12" COND. TYPE B @ 1.31 %

P-108
48'-12" CONDUIT TYPE B @ 1.31 %

A-107
604 Nº 3 CATCH BASIN
STA. 33+24 - 18' LT. ℄ RELOC.
SECOND ST.
TOP = 689.08
FE WINDOW = 688.41
FE 6" = 686.00
FE 12" = 685.50

A-108
604 Nº 3 CATCH BASIN
STA. 33+10 - 18' RT.
RELOC. SECOND ST.
TOP = 689.45
FE WINDOW = 688.78
FE 6" = 686.00
FE 12" = 684.99

EX. MH.
604 Nº 1 MANHOLE
STA. 353+47
37' RT. ℄ WALNUT ST.
FE 12" = 684.36
FE 27" = 679.05
FE 33" = 675.75

P-109
18'-12" CONDUIT TYPE B @ 1.50%

P-110
6'-12" CONDUIT TYPE B @ 1.00%

EX. MH.
604 Nº 1 MANHOLE
STA. 12+25 - 6' RT. ℄ RELOC. THIRD ST.
TOP = 732.50
FE 18" (E.) = 727.15
FE 18" (W.) = 726.75
FE 12" (N.) = 729.02 (STUB TO A-109)
FE 12 (S.) = 729.23 (STUB TO A-110)

A-109
604 Nº 2A-1C INLET
STA. 12+25 - 12' LT. ℄ RELOC. THIRD ST.
TOP = 732.87
FE WINDOW = 732.20
FE 6" = 729.79
FE 12" = 729.29

A-110
604 Nº 2A-1C INLET
STA. 12+25 - 12' RT. ℄ RELOC. THIRD ST.
TOP = 732.87
FE WINDOW = 732.20
FE 6" = 729.79
FE 12" = 729.29

RC-3
604 MANHOLE RECONSTRUCTED TO GRADE
STA. 350+07 - 37' LT. ℄ WALNUT ST.
EXIST. TOP = 715.9
PROP. TOP = 745.34
FE 18" (EXIST.) = 711.9

A-115
604 Nº 1 MANHOLE
STA. 1007+04 - 47.5' LT. ℄ Nº 1
TOP = 749.04
FE 18" (EXIST.) = 741.42
FE 6" = 745.19

A-116
604 Nº I-3B INLET (GRATE RT.)
STA. 1007+10 - ℄ Nº 1
FE WINDOW = 751.06
FE 15" = 747.87

AJ-1
604 MANHOLE ADJ. TO GRADE
STA. 1007+00 - 6' RT. ℄ Nº 1
EXIST. TOP = 748.30
PROP TOP = 751.38
FE 15" = 747.77
FE 18" (EXIST.) = 740.95
FE 30" (EXIST.) = 740.64
FE 33" (EXIST.) = 739.70
FE 6" = 747.12

P-116
10'-15" CONDUIT TYPE B @ 1.00%

A-118
604 Nº 6 CATCH BASIN
STA. 1004+75
75.21' RT. ℄ Nº 1
FE GRATE = 751.30
FE 15" = 748.09

P-118
72'-15" TYPE B CONDUIT @ 3.2%

℄ EXIST. 33" STORM

A-130
604 Nº 5 MANHOLE
STA. 1004+76 - 4' RT. ℄ Nº 1
TOP = 749.33
FE 15" = 740.36
FE 33" (EXIST.) = 736.02

A-145
604 Nº 2-4 C.B. WITH WINDOWS
STA. 36+22 20' LT. ℄ RELOCATED SECOND ST.
GRATE ELEV. = 681.90
℄ EXIST. 36" = 677.82

A-113
604 Nº 5 CATCH BASIN
STA. 1001+75 - 101' LT. ℄ Nº 1
TOP = 726.70
FE 15" = 723.76

EX. M.H.
604 Nº 1 MANHOLE
STA. 10+95 - 6' RT. ℄ RELOC. THIRD. ST.
TOP = 728.30
FE 15" (S) = 722.24 (STUB TO A-114)
FE 18" (E) = 721.55 (EXIST.)
FE 12" (N) = 724.82 (STUB TO A-111)
FE 21" (W) = 721.30 (EXIST.)

A-114
604 Nº 2A-G INLET
STA. 10+95 12' RT. ℄ RELOC. THIRD. ST.
TOP = 728.67
FE WINDOW = 728.00
FE 15" = 722.48
FE 6" = 725.59

A-111
604 Nº 2A-G INLET
STA. 10+95 - 12' LT. ℄ RELOC. THIRD. ST.
TOP = 728.67
FE WINDOW = 728.00
FE 6" = 725.59
FE 12" = 725.00

P-113

A-127
604 Nº 2A-1D INLET
STA. 995+25 - 27.25' LT. ℄ RAMP M
TOP = 707.23
FE WINDOW = 706.56
FE 6" = 702.31
FE 15" = 701.56

A-128
604 Nº 2A-G INLET
STA. 994+25 - 27.25' LT. ℄ RAMP M
TOP = 702.31
FE WINDOW = 701.64
FE 15" = 694.50

℄ 10" SANITARY
INV. = 697.17

P-127
100'-15" CONDUIT TYPE B @ 2.56%

P-128
127'-15" CONDUIT TYPE B @ 1.58%

P-129
32'-15" CONDUIT TYPE B @ 1.00%

A-129
604 Nº 2A-8 INLET
STA. 993+13 - 27.25' LT. ℄ RAMP M
TOP = 697.18
FE WINDOW = 696.51
FE 15" = 692.49

A-85
604 Nº 1 MANHOLE
STA. 24+04 - 14' LT. ℄ E. SECOND ST.
TOP = 695.69
FE 15" (W) = 689.67
FE 12" (S) = 690.40
FE 15" (N) = 692.16
FE 12" (W) = 692.58
FE 21" (E) = 689.17

PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-106	90		
P-107	88		
P-108	88		
P-109	88		
P-110	88		
P-111	88		
P-113	88		
P-114	88		
P-116	94		
P-117	92		
P-118	92		
P-127	76 & 83		
P-128	76 & 83		
P-129	78		
A-145			

STORM SEWER PROFILES

AA B/P

FHWA REGION	STATE	PROJECT	
5	OHIO		

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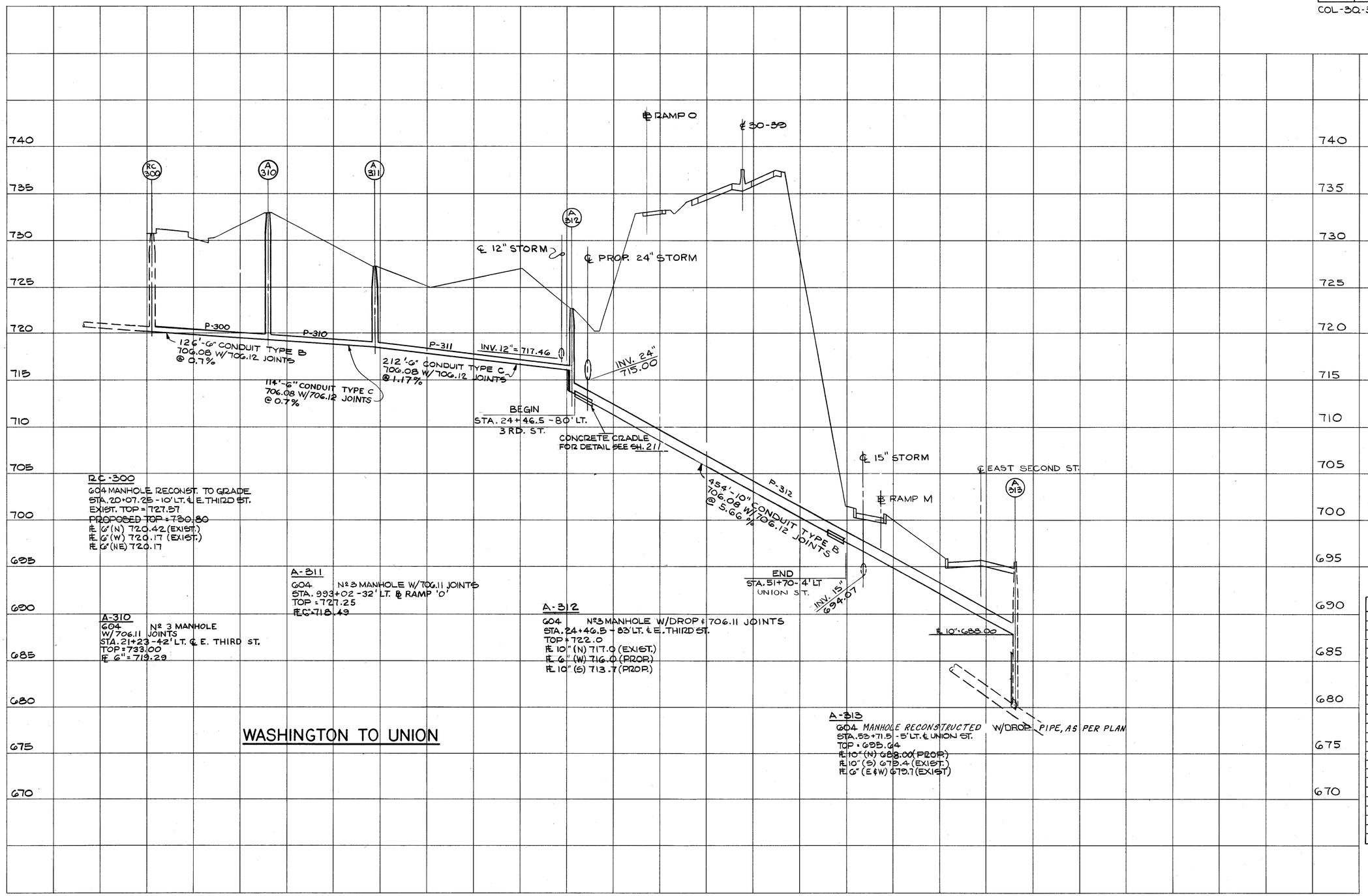
COL-30-35.29



PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-300	73		
P-311	73,76,83		
P-312	76,78,83		
P-310	73,76		

SANITARY SEWER PROFILES

38720

FHWA REGION	STATE	PROJECT	
5	OHIO		

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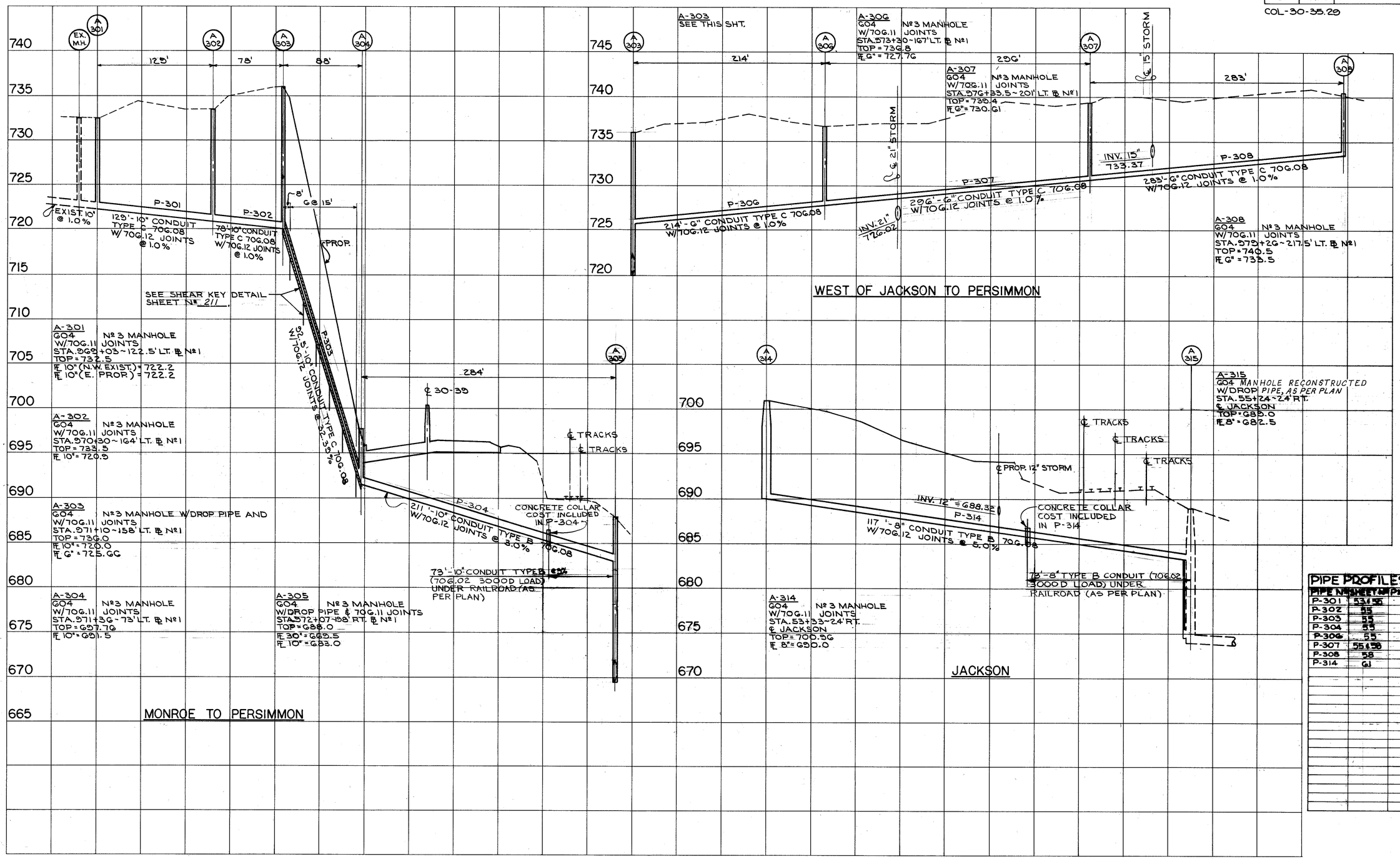
COL-30-35.29



PIPE PROFILES SHOWN			
PIPE Nº	SHEET Nº	PIPE Nº	SHEET Nº
P-301	53 & 56		
P-302	55		
P-303	55		
P-304	55		
P-306	55		
P-307	55 & 58		
P-308	58		
P-314	61		

SANITARY SEWER PROFILES

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL - 30 - 35.29

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BEGIN PROJECT
STA. 963+50 @ Nº 1
SLM - 35.29

NEWELL BRIDGE

S.C. STA. 966+05.72

(PENN CENTRAL RAILROAD)
CONRAIL

OHIO RIVER

WEST ALLEY
FOURTH STREET
MONROE
PERSIMMON
STREET
ALLEY
CHURCH
JEFFERSON
EAST
STREET
ALLEY
STREET
ALLEY
STREET
ALLEY

PROP. 6" W.M.
PROP. 6" W.M.
PROP. 10" W.M.
PROP. 6" W.M.
PROP. 10" W.M.
PROP. 6" W.M.

RAMP "L"
RAMP "N"

P.C.C. STA. 978+30.67

℄ 30-39

* PROP. RETAINING WALL

WEST THIRD STREET
WEST SECOND STREET
W. FIRST ST.
PINK
ALLEY
JACKSON
PEACH
MARKET
CROOK
WASHINGTON

(PENN CENTRAL RAILROAD)
CONRAIL

MATCH LINE STA. 990+00

NOTE:
THIS DRAWING IS TO REPRESENT AN OVERALL GENERAL LAYOUT OF THE PROPOSED WATERLINE AND SHALL NOT BE USED FOR SETTING LOCATIONS OF PROPOSED WATERLINES AND ACCESSORIES.

KEY

- PROPOSED WATER LINES
- —W— EXISTING WATER LINE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- * — EXISTING WATER LINE TO BE ABANDONED

SCALE
0 100 200 300

GENERAL WATERLINE PLAN

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829	5	OHIO		

COL - 30 - 35.29

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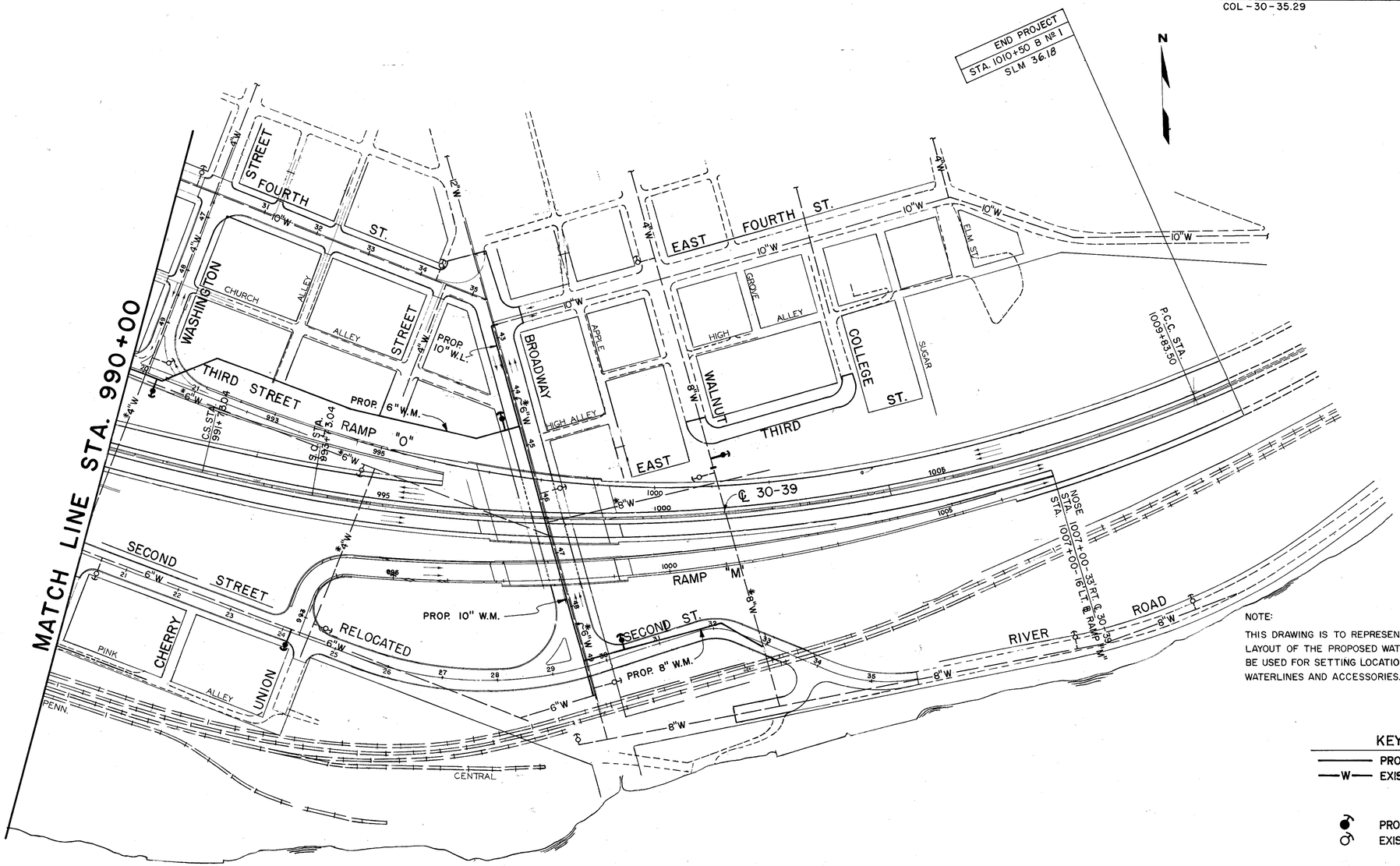

NOTE:

THIS DRAWING IS TO REPRESENT AN OVERALL GENERAL LAYOUT OF THE PROPOSED WATERLINE AND SHALL NOT BE USED FOR SETTING LOCATIONS OF PROPOSED WATERLINES AND ACCESSORIES.

KEY

PROPOSED WATER LINES

—W— EXISTING WATER LINE

PROPOSED FIRE HYDRANT

EXISTING FIRE HYDRANT

✱ – EXISTING WATER LINE TO BE ABANDONED

SCALE

0 100 200 300

GENERAL WATERLINE PLAN

AA 8/P

CALC. BY CMP. DATE 8-15-84
CHKD. BY LCK DATE 8-17-84

OHIO
FHWA REGION 5

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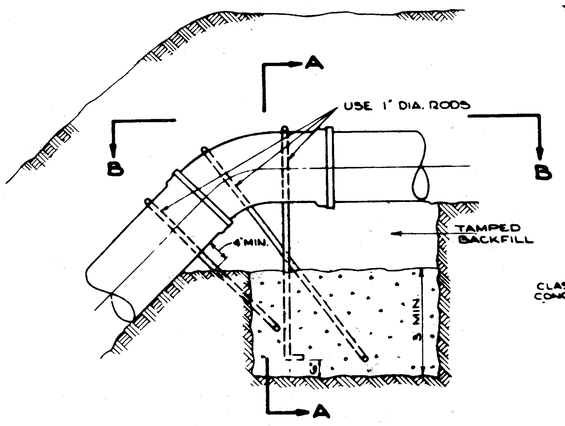
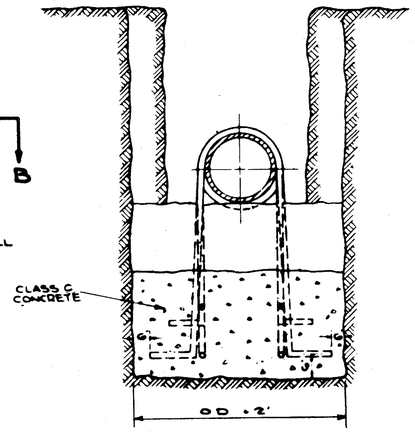
COL-30-35.20



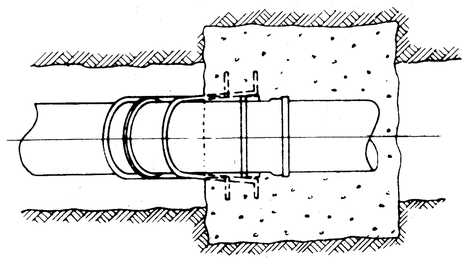
DETAIL
REACTION ANCHORAGE

TO BE USED WHERE REACTION ANCHORAGE IS REQUIRED FOR VERTICAL BENDS

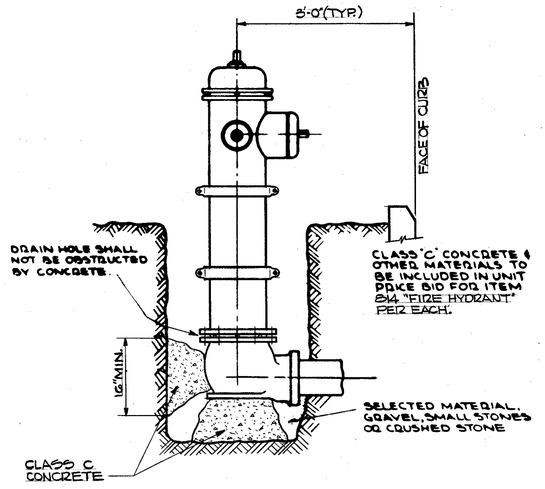


SECTION A-A

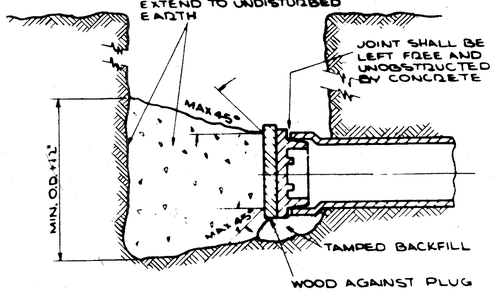
NOTE
CLASS C CONCRETE, 1" DIA RODS AND OTHER MATERIALS TO BE INCLUDED IN UNIT PRICE BID FOR ITEM 814 "WATER MAIN" PER LIN. FT.



SECTION B-B

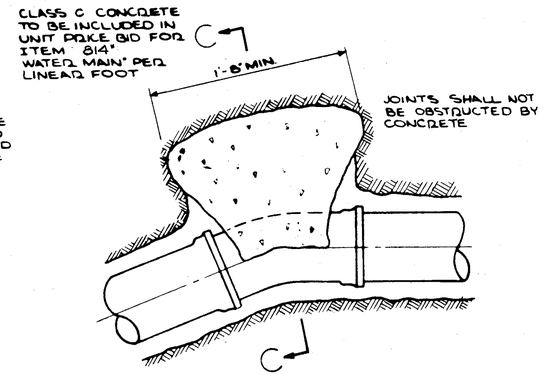


DETAIL
FIRE HYDRANT SETTING



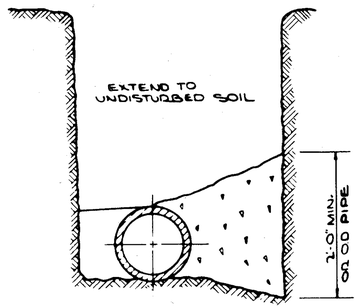
DETAIL
REACTION BACKING AT PLUG OR CAP

CLASS C CONCRETE TO BE INCLUDED IN UNIT PRICE BID FOR ITEM 814" WATER MAIN" CUT & PLUG PER EACH

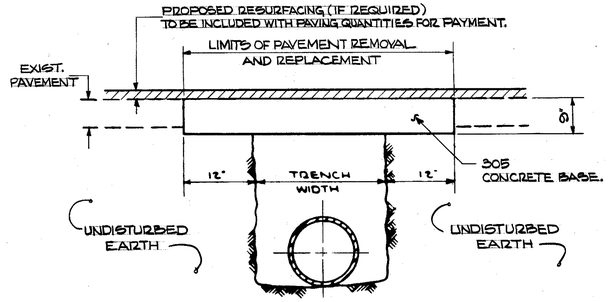


DETAIL
CONCRETE THRUST BLOCK

TO BE USED WHERE REACTION BACKING IS REQUIRED FOR HORIZONTAL BENDS



SECTION C-C



DETAIL
PAVEMENT REPLACEMENT

NOTE:
SEPARATE PAYMENT FOR WATER LINE CONSTRUCTION PAVEMENT REMOVAL AND REPLACEMENT WILL NOT BE MADE. COST FOR THIS QUANTITY SHALL BE INCLUDED WITH THE PERTINENT ITEM 814.

WATER LINE DETAILS

AA B/P

CALC. BY CMP DATE 3-12-84	OHIO
CHKD. BY LCK DATE 3-12-84	FHWA REGION 5

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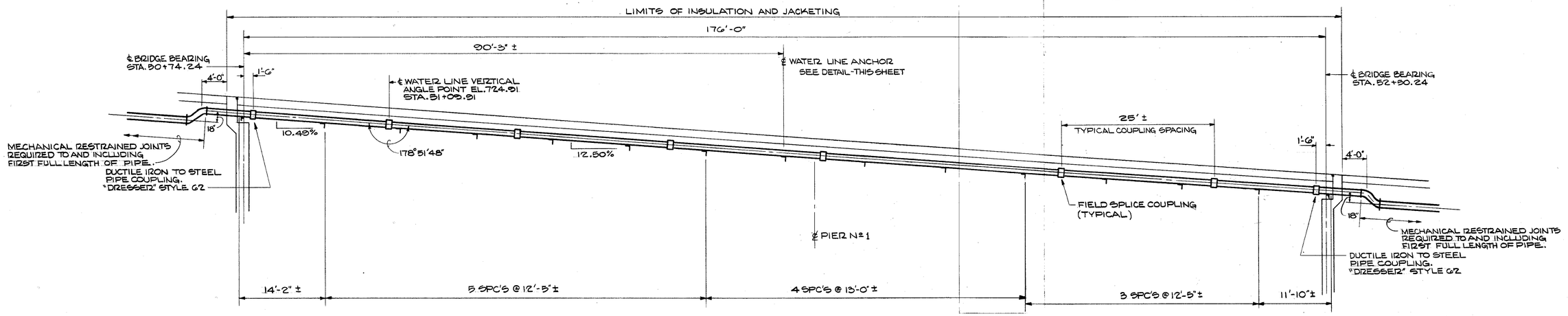
COL-30-35.29

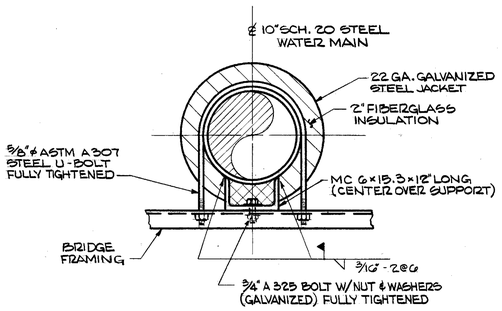


PROFILE - JACKSON STREET BRIDGE WATER LINE

SCALE: 1/8" = 1'-0"

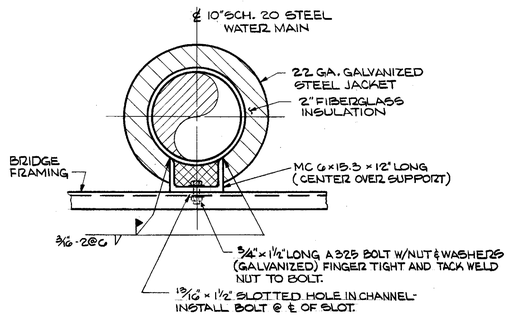
NOTES:

1. STEEL PIPE FIELD SPLICE COUPLINGS SHALL BE STYLE "99" ROLL-A-GRIP COUPLINGS AS MANUFACTURED BY THE VICTAULIC COMPANY OF AMERICA.
2. EACH INDIVIDUAL PIPE LENGTH SHALL BE SUPPORTED ON A MINIMUM OF TWO SUPPORTS.



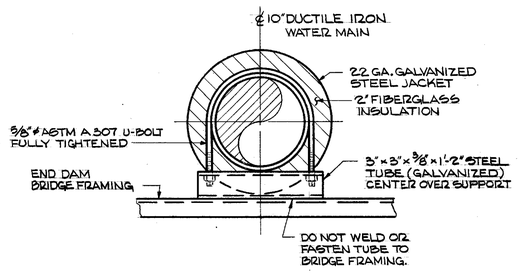
WATER LINE ANCHOR DETAIL

SCALE: 1 1/2" = 1'-0"
(1 REQ'D.)



WATER LINE SUPPORT DETAIL

SCALE: 1 1/2" = 1'-0"
(12 REQ'D.)



WATER LINE SUPPORT DETAIL @ ABUTMENTS

SCALE: 1 1/2" = 1'-0"
(2 REQ'D.)

WATER LINE DETAILS (JACKSON ST. BRIDGE)

AA B/P

CALC. BY C.M.P DATE 3-12-84
CHKD. BY LCK DATE 5-12-84

OHIO
FHWA REGION 5

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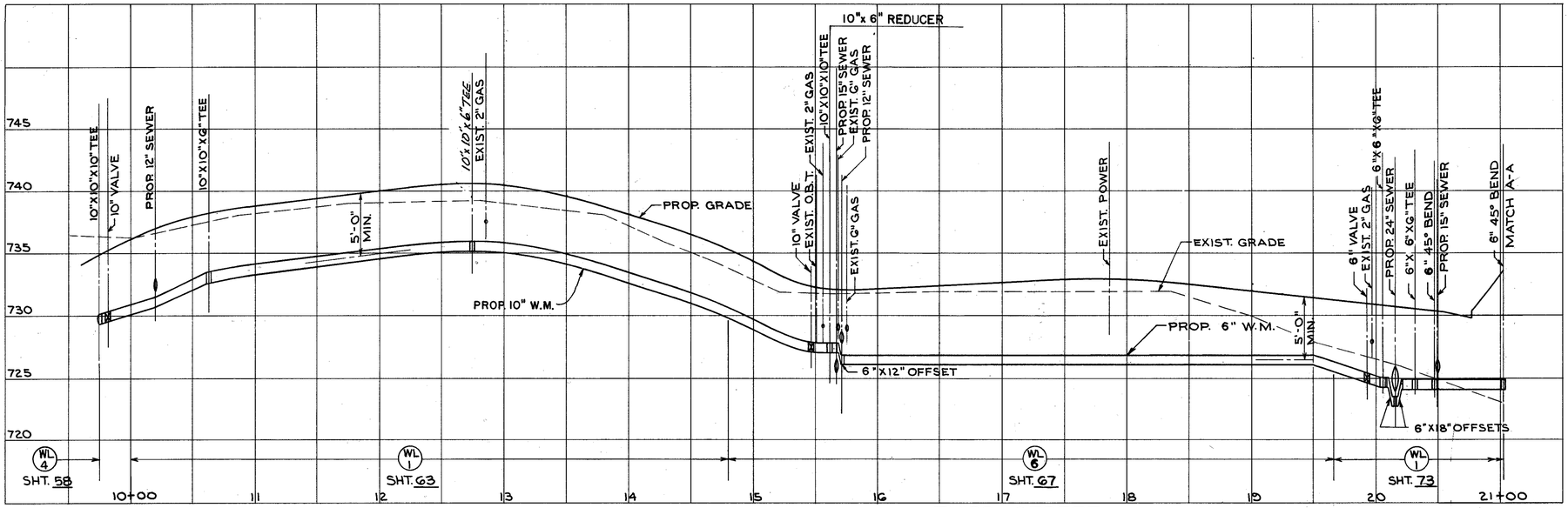
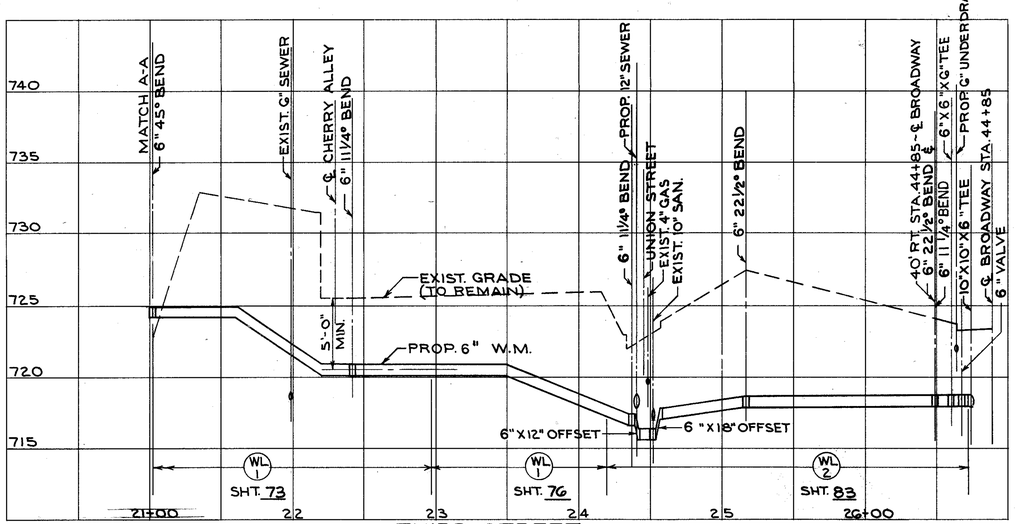
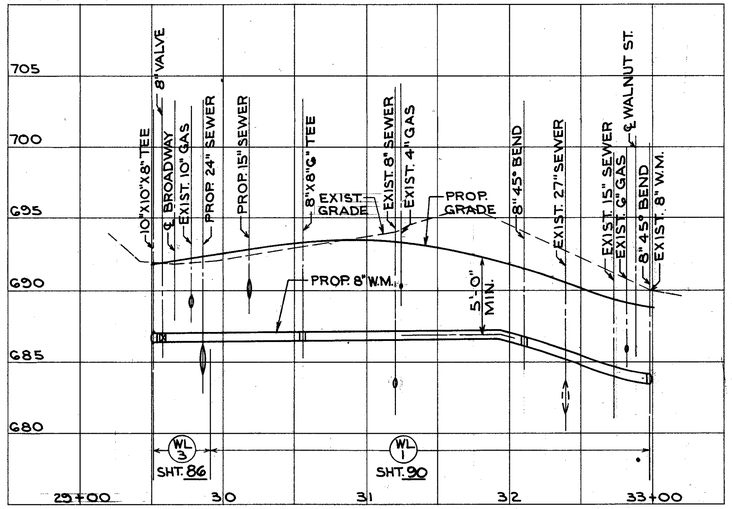
COL-30-35.29



THIRD STREET



THIRD STREET



RELOC. SECOND STREET

WATERLINE PROFILES

38720

AA B/P

CALC. BY C.M.P. DATE 5-12-84
CHKD. BY J.P. DATE 5-12-84

OHIO
FHWA REGION 5

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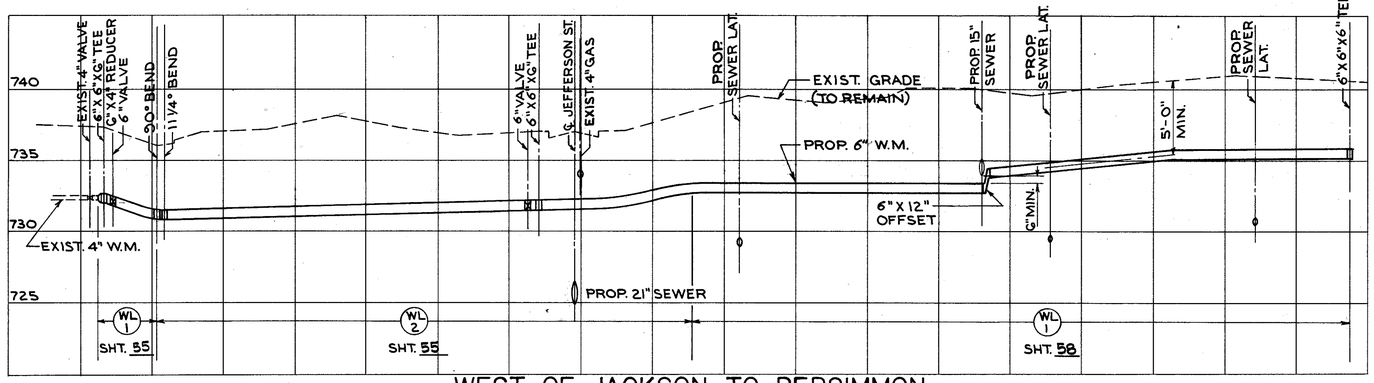
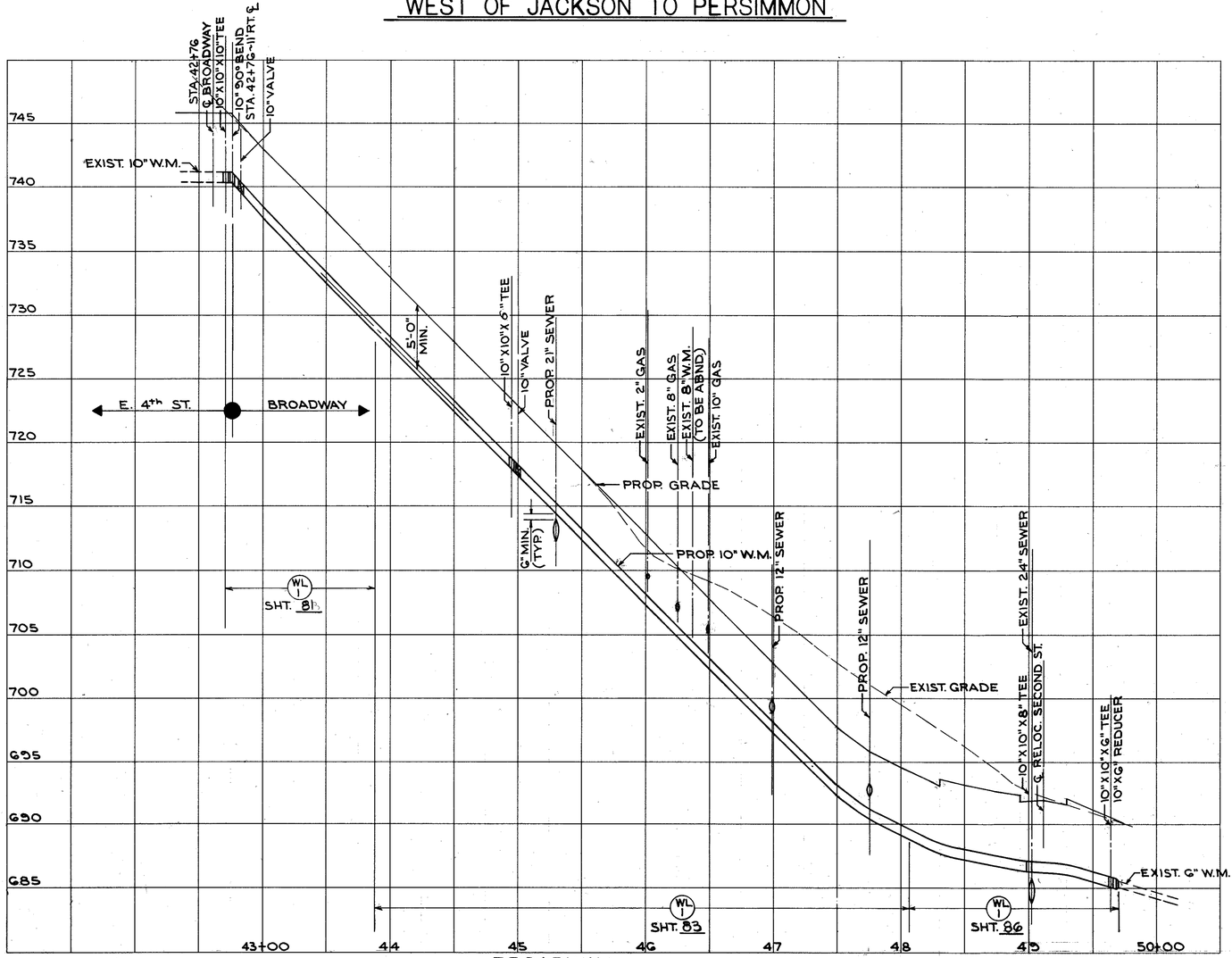
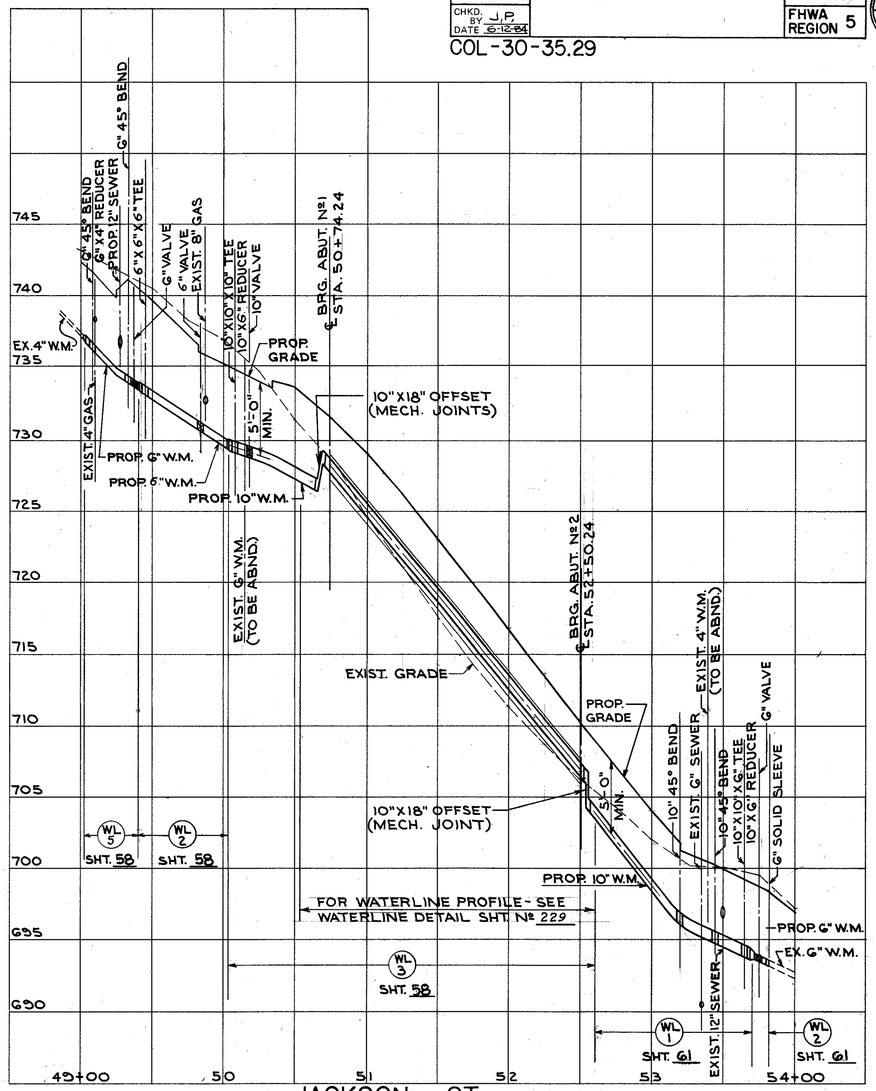
COL-30-35.29



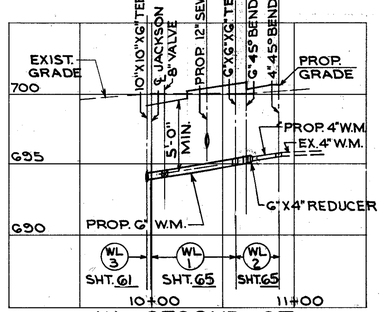
WEST OF JACKSON TO PERSIMMON



BROADWAY



JACKSON ST.



W. SECOND ST.

WATERLINE PROFILES

AA B/Pa 72808

CALC. BY EHC DATE 2-6-84		OHIO
CHKD. BY LCK DATE 8-10-84		FHWA REGION 5

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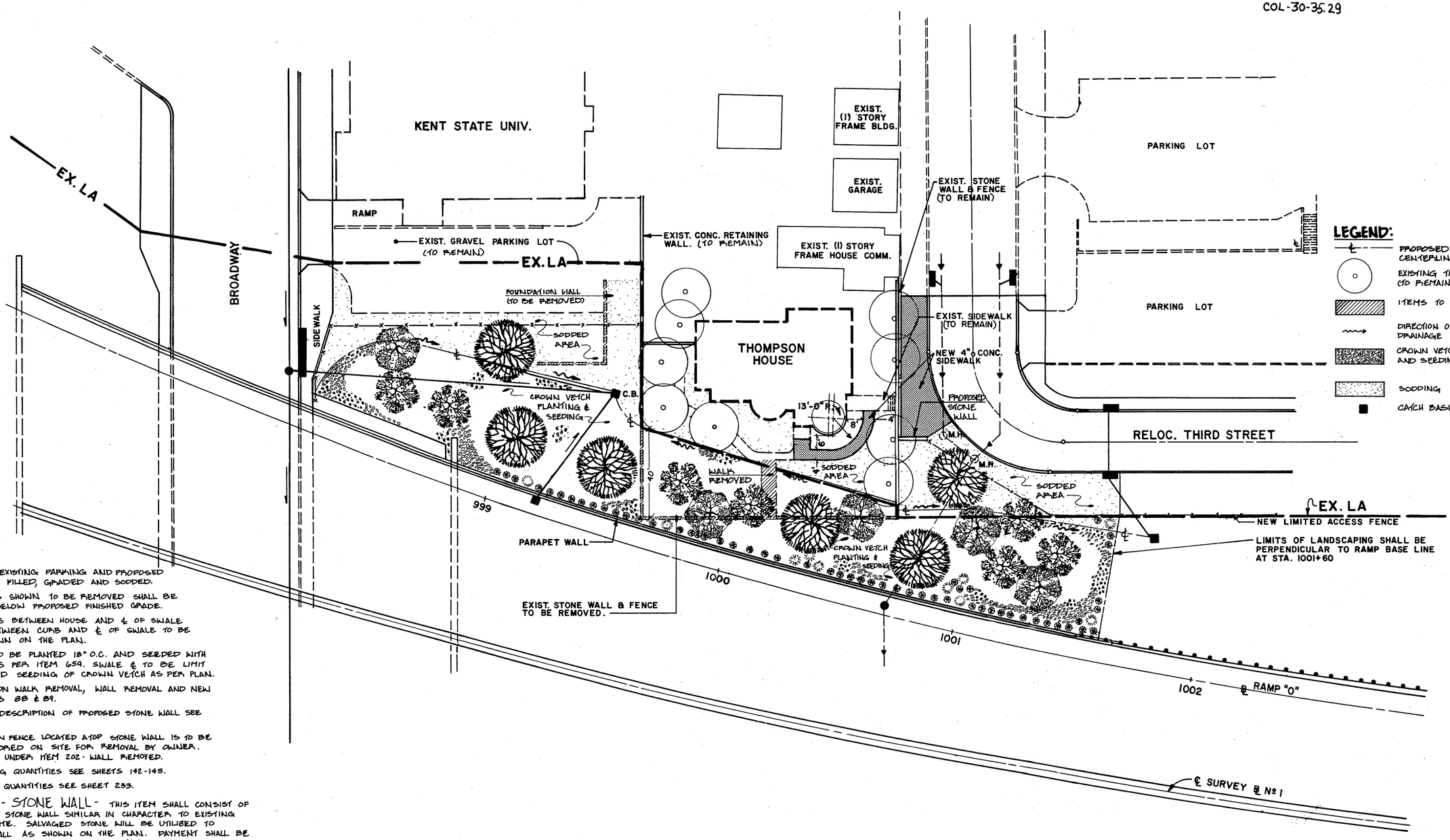
COL-30-35.29



NOTES:

* AREA BETWEEN EXISTING PARKING AND PROPOSED SWALE ℄ TO BE FILLED, GRADED AND SODDED.
* FOUNDATION WALLS SHOWN TO BE REMOVED SHALL BE REMOVED TO 12" BELOW PROPOSED FINISHED GRADE.
* DISTURBED AREAS BETWEEN HOUSE AND ℄ OF SWALE AND AREAS BETWEEN CURB AND ℄ OF SWALE TO BE SODDED AS SHOWN ON THE PLAN.
* CROWN VETCH TO BE PLANTED 18" O.C. AND SEEDED WITH CROWN VETCH AS PER ITEM 659. SWALE ℄ TO BE LIMIT OF PLANTING AND SEEDING OF CROWN VETCH AS PER PLAN.
* FOR QUANTITIES ON WALK REMOVAL, WALL REMOVAL AND NEW WALK SEE SHEETS 88 & 89.
* FOR DETAIL AND DESCRIPTION OF PROPOSED STONE WALL SEE SHEET 233.
* THE EXISTING IRON FENCE LOCATED ATOP STONE WALL IS TO BE REMOVED AND STORED ON SITE FOR REMOVAL BY OWNER. PAYMENT WILL BE UNDER ITEM 202 - WALL REMOVED.
* FOR SITE GRADING QUANTITIES SEE SHEETS 142-145.
* FOR LANDSCAPING QUANTITIES SEE SHEET 233.
* ITEM SPECIAL - STONE WALL - THIS ITEM SHALL CONSIST OF CONSTRUCTING A STONE WALL SIMILAR IN CHARACTER TO EXISTING WALLS ON THE SITE. SALVAGED STONE WILL BE UTILIZED TO RECONSTRUCT WALL AS SHOWN ON THE PLAN. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL - STONE WALL.

NORTH

THOMPSON HOUSE LANDSCAPING PLAN

0 10 20 40

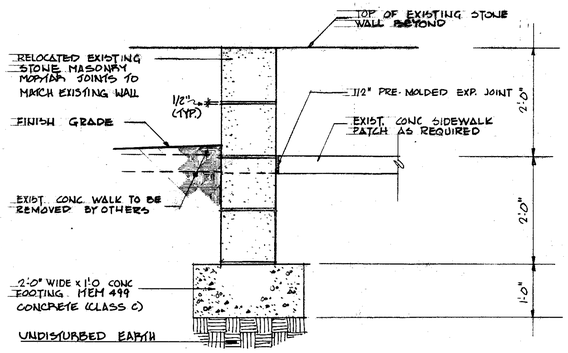
THOMPSON HOUSE PLAN

CALC. BY EHC DATE 2-6-84		OHIO	233
CHKD. BY LCK DATE 2-10-84		FHWA REGION 5	362

COL-30-35.29

ESTIMATED PLANT QUANTITIES:

KEY	TOTAL ITEM	TOTAL QUAN.	TOTAL UNIT	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	CONDITION
	663	6	EACH	AESCULUS HIPPOCASTANUM	COMMON HORSE CHESTNUT	3" TO 4" CAL.	AS SHOWN	B.& B.
	663	12	EACH	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER THORNLESS HONEY LOCUST	3" TO 4" CAL.	AS SHOWN	B.& B.
	662	10	EACH	VIBURNUM LANTANA	WAYFARINGTREE VIBURNUM	3'-4' H.T.	AS SHOWN	B.& B.
	662	57	EACH	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	3'-4' H.T.	5' O.C.	B.& B.
	661	5994	EACH	CORONILLA VARIA	CROWN VETCH	2½" POT	18" % E.W.	2½" POTTED



RELOCATED STONE WALL

ESTIMATED QUANTITIES:

ITEM	DESCRIPTION	QUANTITY
SPECIAL	STONE WALL	12 L.F.
659	CROWN VETCH SEEDING	1500 S.Y.
659	COMMERCIAL FERTILIZER	.08 TON
660	SODDING	840 S.Y.

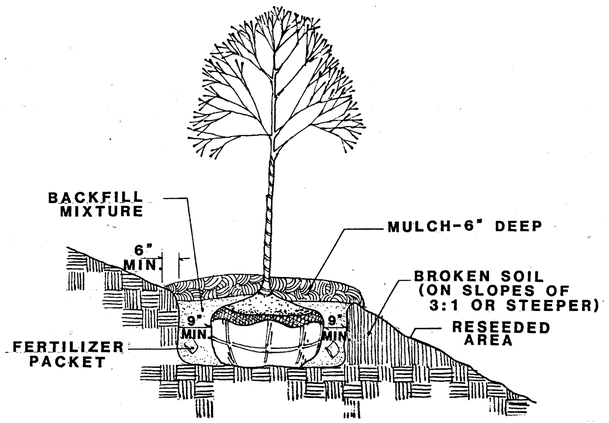
NOTES:

* SEE SHEET 233A FOR GENERAL NOTES ON PLANTING REQUIREMENTS.

THOMPSON HOUSE DETAILS

LANDSCAPE GENERAL NOTES

PLANTING DETAIL:



The top of the root ball shall be set at the normal ground line.

On slopes where heavy clay and impermeable soils are present the down hill side of the pocket hole shall be broken or loosened and returned to its natural grade to provide drainage for the hole.

PLANTING HOLE AND BED PREPARATION

After the layout is approved by the Engineer, shrub and ground cover beds shall be cultivated to a minimum depth of six (6) inches by a plow, harrow or disc, or other method approved by the engineer. The cultivation shall take place as far in advance of the planting operation as possible. Where shrubs are shown, individual holes shall be dug on centers as shown on the plans. These holes shall allow for a minimum of nine (9) inches of backfill mixture around the sides of the balls. The bottom of the hole shall be no deeper than the ball to be planted. The material removed from the holes shall be taken from the project if it is found to be unacceptable for use as backfill as determined by the engineer. The plant shall then be set and the hole filled with backfill mixture, and the planting operation performed as specified in Items 662.17 and 662.18. All excess dirt shall be removed from the site.

Existing trees and shrubs shall take priority over proposed plantings. The locations of the proposed trees and shrubs are approximate and may be rearranged at the direction of the engineer when obstructions are encountered.

If an auger is used in digging pocket holes and polished (shiny) sides occur in clay or heavy soil, the use of such an auger shall be discontinued and the holes shall be dug with a backhoe or another approved method.

Backfill No. 1 - The backfill mixture used to fill pocket holes in light and medium soils (sand & Average) shall consist by volume of 2 parts *soil conditioner, 2 parts compressed sphagnum peat or 3 parts sedge peat, and 2 parts approved topsoil.

Backfill No. 2 - The backfill mixture used to fill pocket holes in heavy soils (clay & shale) shall consist by volume of 1 part*soil conditioner, 1 part compressed sphagnum peat or 2 parts sedge peat, and 2 parts approved topsoil.

Incorporate thoroughly into the backfill mixtures 5 lbs. of commercial fertilizer (0-20-20) per cubic yard. The engineer, after consultation with the landscape architect, shall determine the locations where the backfill mixtures shall be used.

SOIL CONDITIONER

A soil conditioner such as "HAYDITE", "PERLITE" or an approved equal shall be used. The particle size gradation of the soil conditioner shall be at least 80% passing a No. 6 sieve and not more than 5% passing a No. 50 sieve.

TOPSOIL TESTING

Topsoil failing current test standards may be altered, upon approval of the Engineer, by adding approved conditioners to correct the deficiencies. Topsoil shall be free of Johnson grass and conform to item 653 as determined by the Engineer.

PLANTING PERIOD OF ESTABLISHMENT

Before final inspection, all plantings shall be in place and under the care of the contractor for a period of establishment. This period shall begin immediately upon completion of the planting operation for any plant or species group and continue until October 1. In no case shall it be less than one growing season, June 1 to October 1.

During this period of establishment, it shall be the contractor's responsibility to follow such horticultural practices as required to assure the vigor and growth of the transplanted material. This care shall include watering, remulching, restaking, guying and cultivating. There shall be a minimum of two weeding and mowing (bed edges, around trees and guy stakes) programs of such intensity as to completely rid the planted and mulched areas of weeds and grasses. The first program shall begin on or about June 15 and the other approximately 8 weeks later.

Each plant shall have sufficient water to keep it in a healthy, growing condition. If local weather conditions warrant, the Engineer may require weekly watering. A schedule for watering each plant and maintenance as described in the proceeding paragraph shall be supplied to and approved by the engineer before planting begins. Soil moisture shall be measured in each planting zone by a soil moisture meter approved by the engineer. Watering shall be done according to the watering table when indicated by meter readings. The water shall be applied in such a manner as to saturate the root and mulched area of each plant without causing run-off (see watering table). In case of fall plantings, these waterings shall continue until soil freezes up and recommence after the spring thaw unless other wise directed.

On or about September 15, the Engineer shall inspect the planting and supply the Contractor with a listing of those plants having died, died back beyond normal pruning lines or are missing from the planting. The Contractor shall make the replanting as required and in accordance with the specifications for the original material. These replacements are not subject to the period of establishment, however, plants planted initially in the fall which have died before the spring planting season shall be replaced immediately and are subject to the establishment period.

After replacements have been planted, the final inspection shall be made and the actual count of live plants of each variety and species listed for payment.

ITEM 661.21 WATERING

Water shall be furnished by the contractor and all plant material shall be watered thoroughly at the time of planting regardless of ample moisture content of the surrounding soil. Suspension of watering operations because of rainfall will be determined by the engineer in consultation with the landscape architect. An average of one inch of rainfall per week shall be considered adequate. Determination of rainfall shall be based upon the use of a rain gauge approved by the Project Engineer.

WATERING TABLE

Shrubs 1'-2' size	2 gal. per plant
Shrubs 2'-3' size	4 gal. per plant
Shrubs 4'-5' size	7 gal. per plant
Trees 5'-6' size	10 gal. per plant
Trees 1-1/4" - 1-1/2"	Cal. 15 gal. per plant
Trees 1-1/2" - 2-1/2"	Cal. 20 gal. per plant
Trees 2"-3"	Cal. 25 gal. per plant
Trees 3"-4"	Cal. 30 gal. per plant

The method of measurement for summer watering shall be by approved metering from tanks or by individually measured containers to each plant to be watered. Payment for planting period of establishment shall be included in the unit price bid for items 661, 662 and 663 and is considered to be 15% of the cost for the item.

MULCH

Mulch shall be as per Item 661.04 with the following exceptions, wood shavings or peat moss or corn cobs shall not be used as a top mulch. Wood chips shall be aged (Stockpiled) at least 6 months prior to placement around plants. Mulch shall be six inches loose measurement after mulching. Commercial fertilizer (12-12-12) shall be applied as specified in Item 662.18.

PRUNING

All plants shall be pruned within seven days after planting. The pruning shall be done according to selected typical plants of each species pruned and used as a sample as directed by the Engineer.

Any candle growth on needle evergreens which exceed 3 inches at planting time shall be cut back to that length immediately.

STAKING MATERIALS

All trees shall be staked as shown in the standard drawing LA-2. Staking of small ornamental trees shall be similar to that of evergreens.

FERTILIZER

Four ounce (8-year) commercial fertilized packets used in planting operation shall be delivered dry in original, unopened containers. Fertilizer analysis shall be 16% nitrogen, 8% phosphoric acid and 16% potash. Fertilizer shall be of a slow release type in a polyethylene perforated packet with micropore holes.

The packets shall be placed 6 to 8 inches deep and evenly spaced around the perimeter of the planting hole, adjacent to the ball or root mass but not in direct contact with the roots. The packets shall not be cut, ripped or damaged.

Each shrub or tree shall be fertilized according to the following schedule:

Shrubs 1'-2'	2 Packets
Shrubs 2'-3'	2 Packets
Shrubs 3'-4'	3 Packets
Trees 5'-6'	3 Packets
Trees 6'-8'	4 Packets
Trees 1 1/2"-2" Cal.	2 Packets
Trees 2"-2 1/2" Cal.	3 Packets
Trees 2 1/2"-3" Cal.	4 Packets
Trees 3"-3 1/2" Cal.	5 Packets

If it becomes necessary to remove and replace missing, dead or unhealthy plants, all old packets shall be replaced with new packets.

The four ounce 16-8-16 fertilizer packets shall be designated by the manufacturer to be effective for eight years. Packets such as "EEESY GROW" (Specialty Fertilizer, Inc., Box 355, Suffern, N.Y. 10901, (914) 357-7722; "The Unique Feeder" Unique Fertilizer, Inc., P.O. Box 99, Deptford, N.J. 08096, (609) 848-4444; or approved equal.

HERBICIDES

The month prior to cultivation and planting all shrub beds will be treated with "ROUNDUP" brand herbicide or an approved equal. After planting and fertilizing have been completed and approved, the shrub beds will be treated with "SURFLAN" brand herbicide or an approved equal. The rate and method of application shall be in strict conformance with the manufacturers product label and consistent with current practices for roadside management. This work shall be accomplished under the direct supervision of a pesticide applicator licensed by the State of Ohio.

STORAGE AREAS

The Contractor may store plant materials and equipment 30 feet from pavement, behind guardrail and within or adjacent to the project limits by obtaining official permission of the Engineer. No pedestrian of vehicular traffic may be impeded nor hazardous condition created as a result of such storage.

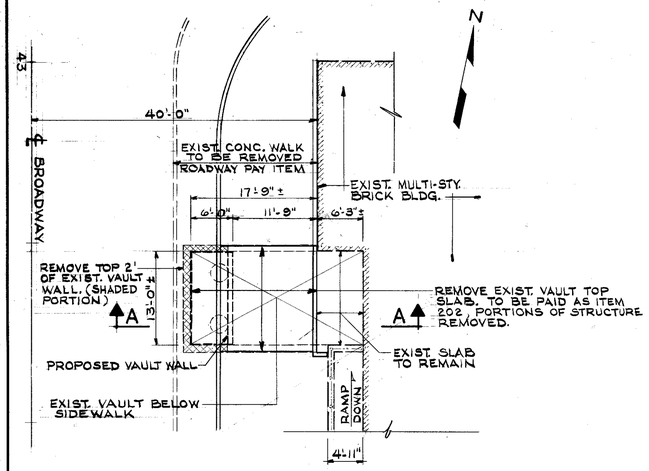
The storage of all dug plants shall conform to 661.14 whether within the project limits, adjacent thereto, or at some other location. These areas shall be designated prior to actual plant storage and shall be open to inspection upon request of the Engineer.

SCHEDULING

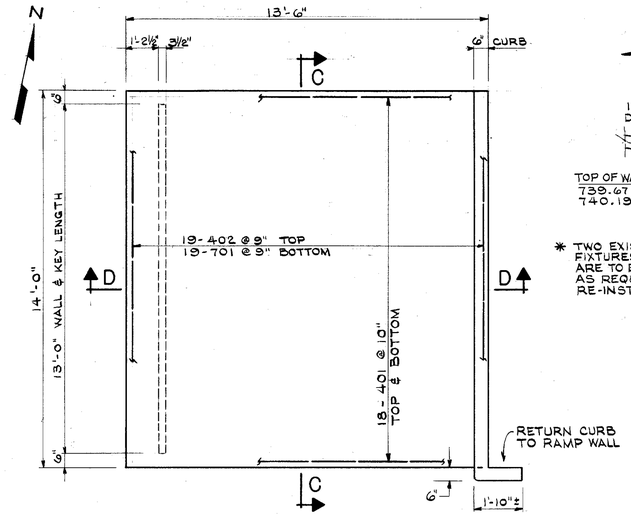
All digging and planting of deciduous plants shall be done after October 1, and before June 1. Evergreens shall be dug and planted after March 15, and before June 1.

ITEMS 662 and 663

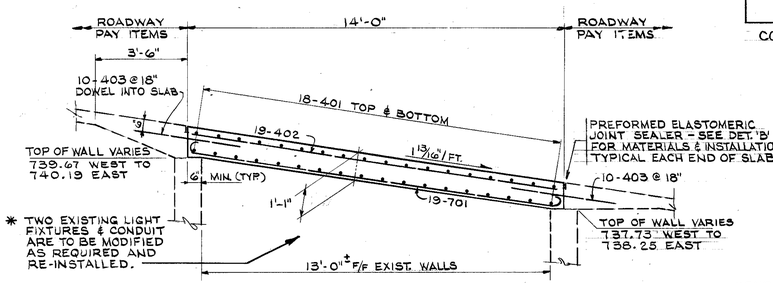
All trees and shrubs shall be specimen (No. 1 Grade) plants with growth and branching habit typical of the species specified. No park grade (n. 2 or 3 Grade) plants will be accepted.



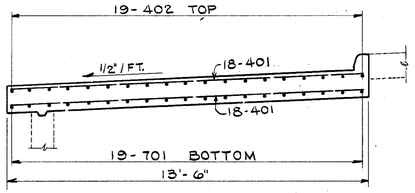
SITE PLAN



SLAB PLAN

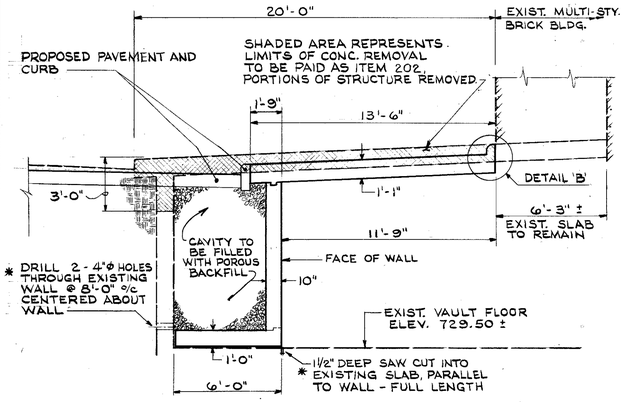


SECTION 'C - C'

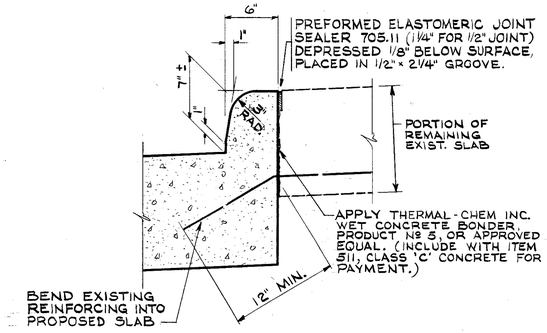


SECTION 'D - D'

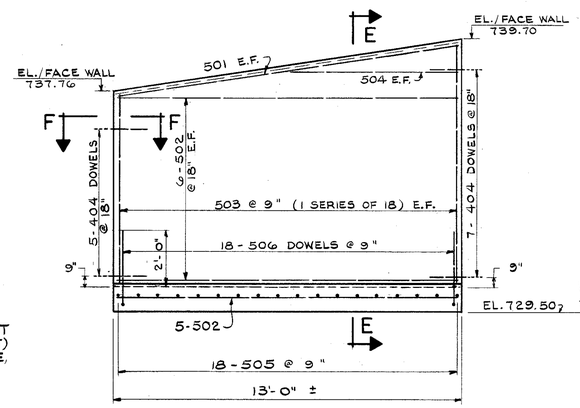
* ITEMS MARKED WITH AN ASTERISK ARE TO BE INCLUDED WITH 202 - PORTIONS OF STRUCTURE REMOVED, FOR PAYMENT.



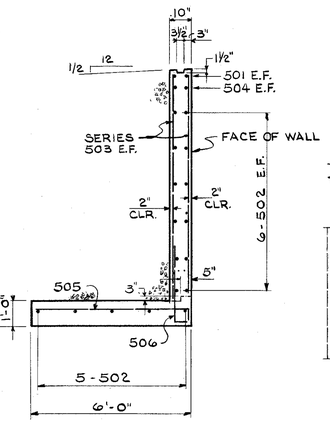
SECTION 'A-A'



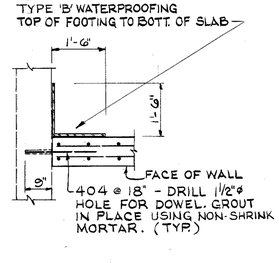
DETAIL 'B'



VAULT WALL ELEVATION



SECTION 'E - E'

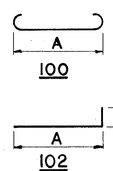


SECTION 'F - F'

STRUCTURE REINFORCING

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
701	19	14' 8"	100	13' 0"				570
501	2	12'11"	ST					27
502	17	12' 9"	ST					226
503S	2 SET OF 18	8'10" TO 7' 0"	ST				0' 1 1/4"	298
504	2	7' 3"	ST					15
505	18	6' 1"	102	5' 6"	0' 8"			114
506	18	3' 3"	102	2'10"	0' 6"			61
401	36	13' 6"	ST					325
402	19	13' 0"	ST					165
403	20	4' 0"	ST					53
404	12	2' 0"	ST					16
TOTAL								1,870

BAR TYPES



FOR VAULT LOCATION SEE SHEET № 81

ITEM SPECIAL
KENT STATE UNIVERSITY SIDEWALK VAULT

DESIGN DATA

DESIGN LOADING: HS20-44

CONCRETE CLASS C: COMPRESSIVE STRENGTH 4000 PSI

REINFORCING STEEL: ASTM A615, A616 OR A617 - GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

CARE SHALL BE EXERCISED IN REMOVING PORTIONS OF THE EXISTING SLAB SO THAT NO DAMAGE IS DONE TO THE EXISTING REBARS WHICH ARE TO PROJECT INTO THE PROPOSED CONSTRUCTION. WHERE EXISTING REBARS ARE DAMAGED, NEW DOWELS OF THE EQUIVALENT SIZE, 50 DIA.' LONG, SHALL BE PROVIDED. SUCH DOWELS SHALL BE EMBEDDED 25 DIA. INTO EXISTING CONCRETE BY DRILLING 2-1/2" DIA. HOLES AND FILLING WITH NON-SHRINK GROUT. REPLACEMENT OF DAMAGED REBARS SHALL BE AT CONTRACTOR'S COST. MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

THE CONTRACTOR SHALL EXERCISE, AT ALL TIMES, UTMOST CARE SO AS NOT TO ENDANGER LIFE OR PROPERTY. HE SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO ANY PROPERTY OR PERSON DURING THE PROSECUTION OF HIS WORK RESULTING FROM HIS METHOD OR MANNER OF EXECUTING THE WORK.

THE CONTRACTOR SHALL COORDINATE HIS WORK WITH KENT STATE UNIVERSITY SO AS TO MINIMIZE INTERFERENCE WITH NORMAL UNIVERSITY OPERATIONS.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

ITEM SPECIAL KENT STATE UNIVERSITY SIDEWALK VAULT — LUMP SUM

ESTIMATED QUANTITIES
(FOR INFORMATION ONLY; PAYMENT INCLUDED IN ITEM SPECIAL K. ST. UNIVERSITY VAULT)

ITEM	TOTAL	UNIT	DESCRIPTION
202	LUMP	L.S.	PORTIONS OF STRUCTURE(S) REMOVED
509	1,870	LB.	REINFORCING STEEL, GRADE 60
510	12	EA..	DOWEL HOLES
511	14	C.Y.	CLASS C CONCRETE
512	6	S.Y.	TYPE B WATERPROOFING
516	43	L.F.	JOINT SEALER
518	20	C.Y.	POROUS BACKFILL

GPD — GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

1 / 1

PROJECT № COL-30-35.29

K.S.U. SIDEWALK VAULT DETAILS

BROADWAY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.R.S.			KSJ	RJA	4-4-84	

LIGHTING GENERAL NOTES

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL-30-35.29

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SPECIFICATIONS
THESE NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 713 OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

REFERENCE SHALL BE MADE TO STANDARD CONSTRUCTION DARWINGS LISTED ON THE TITLE SHEET OF THESE PLANS.

625.03-GENERAL
THE POWER SUPPLY AGENCY FOR THIS PROJECT IS:
OHIO POWER COMPANY
FIFTH & WASHINGTON
STEUBENVILLE, OHIO 43952
614-282-6241

THIS PROJECT HAS BEEN DESIGNED ON THE BASIS OF 5% VOLTAGE DROP WITH A MAXIMUM UNIFORMITY OF 4.0 TO 1.

UNDERPASS LUMINAIRES
UNDERPASS LUMINAIRES SHALL BE HOLOPHANE "UNDERPASS WALLPACK", WESTINGHOUSE, OR GENERAL ELECTRIC WL-250 UNDERPASS UNIT OR EQUAL APPROVED BY THE ENGINEER, AND SHALL BE FURNISHED WITH AN INTERGRAL FUSE HOLDER AND 10-AMPERE FUSE. THE INTERGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 480 VOLTS, 100 WATTS.

713.14 LAMPS
HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", WESTINGHOUSE "CERAMALUX", SYLVANIA "LUMALUX", OR EQUAL APPROVED BY THE ENGINEER. 150 WATT HPS LAMPS SHALL BE OF THE 100 VOLT DESIGN, ANSI S56.

UNDERDRAINS FOR PULL BOXES
REFERENCE IS MADE TO STANDARD DRAWING HL-30.11 FOR DETAILS OF DRAINING PULL BOXES.UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET. AN ESTIMATED QUANTITY OF "780 LINEAR FEET OF ITEM 603 4" CONDUIT, TYPE E" IS INCLUDED IN THE LIGHTING GENERAL SUMMARY FOR THIS PURPOSE.

CONDUIT ON STRUCTURE
EXPANSION FITTINGS FOR CONDUIT ON STRUCTURES SHALL BE OZ TYPE AX, CROUSE-HINDS TYPE XJ-4, APPLETON TYPE XJ-4, OR EQUAL APPROVED BY THE ENGINEER FOR BRIDGES NOS. COL-30-3560, COL-30-3592 AND COL-30-3593.
EACH EXPANSION JOINT SHALL HAVE A COPPER EXTERNAL BONDING JUMPER.

ELECTRICAL SERVICE FOR ILLUMINATED SIGNS
THE PAY ITEMS IN THE LIGHTING GENERAL SUMMARY INCLUDE THE PULL BOX OR JUNCTION BOX ADJACENT TO EACH LIGHTED SIGN AND THE ELECTRICAL SERVICE CONNECTIONS LEADING INTO THE BOX, INCLUDING SPLICES OR CONNECTOR KITS IN THE PULL BOX OR JUNCTION BOX. QUANTITIES FOR ELECTRICAL SERVICE FROM THE CONNECTION IN THE PULL BOX OR JUNCTION BOX TO THE SIGN ARE INCLUDED IN THE TRAFFIC CONTROL GENERAL SUMMARY.

QUANTITIES FOR ELECTRICAL SERVICE FROM THE CONNECTOR KITS TO LUMINARIES MOUNTED ON COMBINATION-TYPE SIGN SUPPORTS, INCLUDING DISTRIBUTION CABLE, POLE AND BRACKET CABLE, LUMINAIRE SUPPORT ARM, LUMINAIRE, ETC., EXCLUSIVELY REQUIRED TO SERVICE ROADWAY LIGHTING UNIT, ARE INCLUDED IN THE LIGHTING GENERAL SUMMARY.

PADLOCKS AND KEYS
PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BUHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH SPECIFICATION 631.08 (4), PARAGRAPH 3. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM BEING LOCKED.

ITEM 625-CONDUIT JACKED UNDER RAILROAD, AS PER PLAN
THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING CONDUIT OF THE SIZE OR SIZES INDICATED UNDER EXISTING RAILROAD TRACKS BY AN APPROVED METHOD SUCH AS "DRILLING" OR "JACKING".

THE CONTRACTOR SHALL PLACE THE CONDUIT WITH THE LEAST AMOUNT OF DISTURBANCE TO THE EXISTING TRACKS. ALL PUSH PITS OR ANY NECESSARY EXCAVATIONS SHALL BE BACKFILLED AND RESTORED IN ACCORDANCE WITH 625.01.

MEASUREMENT OF THE CONDUIT SHALL BE THE ACTUAL AMOUNT OF LINEAR FEET INSTALLED UNDER RAILROAD TRACKS, MEASURED IN PLACE, AS ACCEPTED BY THE ENGINEER. THE UNIT PRICE BID FOR ITEM 625 "CONDUIT JACKED UNDER RAILROAD, AS PER PLAN" SHALL BE FULL COMPENSATION, DRILLING OR JACKING, BACKFILLING, COMPACTING, RESTORATION, AND ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ITEM 625-SERVICE TO UNDERPASS LIGHTING
THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE, EXCEPT FOR LUMINAIRES AND STRUCTURAL GROUNDING, FOR AN UNDERPASS LIGHTING SYSTEM ON BRIDGES NOS. COL-30-3592 AND COL-30-3593 OVER BROADWAY. THE INSTALLATION WORK SHALL INCLUDE CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, CABLES, AND INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE AS DETAILED ON SHEET 247. THE LUMP SUM PRICE FOR "ITEM 625-SERVICE TO UNDERPASS LIGHTING" SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THIS ITEM.

EXISTING UTILITIES
REFER TO SHEET NO. 28 FOR UTILITY ADDRESSES AND PHONE NUMBERS AND SHEET NOS. 335 & 336 FOR EXISTING UTILITY LOCATIONS.

LUMINAIRES
STYLE B LUMINAIRES SHALL HAVE SINGLE RATED 480 VOLT, 200 WATT, INTEGRAL REGULATOR BALLASTS FOR USE WITH HIGH PRESSURE SODIUM LAMPS AND SHALL BE GENERAL ELECTRIC M400, CROUSE-HINDS OVM, AMERICAN 25/26, OR EQUAL APPROVED BY THE ENGINEER.

STYLE C LUMINAIRES SHALL HAVE SINGLE RATED 480 VOLT, 310 WATT, INTEGRAL REGULATOR BALLASTS FOR USE WITH HIGH PRESSURE SODIUM LAMPS AND SHALL BE GENERAL M-1000, CROUSE-HINDS OVL, AMERICAN 327/328, OR EQUAL APPROVED BY THE ENGINEER

REMOVAL OF EXISTING CIRCUIT CABLE
THIS ITEM OF WORK SHALL INCLUDE THE REMOVAL OF EXISTING CIRCUIT CABLE FROM POLES, POLE BASES, PULLBOXES, BRIDGE CONDUIT, BURIED CONDUIT AND CONDUIT IN CONCRETE BARRIER SO THAT NEW CABLE CAN BE INSTALLED. THE MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. PAYMENT WILL BE MADE FOR EACH FOOT OF CABLE REMOVED.

CLEANING OF EXISTING CONDUIT
THE CONTRACTOR SHALL CLEANSE ALL EXISTING CONDUIT AND MEDIAN BARRIER JUNCTION BOXES AND REFURBISH THEM BY REPLACING BROKEN AND/OR MISSING PARTS INCLUDING NEOPRENE GASKET (AS PER HL-20.13). PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCIDENTAL TO THE VARIOUS ITEMS OF WORK.

REMOVAL OF EXISTING LUMINAIRE
THIS ITEM OF WORK SHALL CONSIST OF REMOVING THE EXISTING LUMINAIRE TAKING CARE NOT TO DAMAGE THE UNIT. THE LUMINAIRE SHALL BE STORED ON THE PROJECT FOR REMOVAL BY THE CITY OF EAST LIVERPOOL. PAYMENT WILL BE MADE FOR EACH LUMINAIRE REMOVED.

REMOVAL OF EXISTING PULLBOX
THIS ITEM OF WORK SHALL CONSIST OF REMOVING THE EXISTING PULLBOX IN SUCH A WAY AS NOT TO DISTURB THE EXISTING WIRE AND CONDUIT. IF THE EXISTING PULLBOX IS FULL OF DEBRIS, THE DEBRIS SHOULD BE REMOVED BEFORE THE PULLBOX IS REMOVED. ALL MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND ANY MATERIAL REQUIRED TO RESTORE THE DISTURBED AREA SO THAT A NEW PULLBOX CAN BE INSTALLED SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THIS ITEM, PAYMENT WILL BE MADE FOR EACH PULLBOX REMOVED. ANY EXISTING CONDUIT OR WIRE THAT IS DAMAGED DURING REMOVAL OR INSTALLATION OF A PULL BOX SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER ACCORDING TO THE APPROPRIATE SPECIFICATIONS AND DRAWINGS.

ITEM SPECIAL-MAINTAIN EXISTING LIGHTING
EXISTING ROADWAYS WHICH ARE OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF ANY EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF THE EXISTING LIGHTING SHALL BE MADE BY THE STATE'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR.

THE CONTRACTOR SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWN UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENTS.

THE CONTRACTOR SHALL NOT BEGIN WORK ON THE EXISTING HIGHWAY LIGHTING SYSTEM UNTIL THE ENGINEER IS SATISFIED ALL MATERIAL AND EQUIPMENT IS ON THE JOB SITE READY FOR USE. THE CONTRACTOR MAY BEGIN WORK UPON APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL WORK CONTINUOUSLY AND EXPEDITIOUSLY TO MINIMIZE THE TIME THE LIGHTS ARE OUT OF SERVICE. WHEN POSSIBLE THE CONTRACTOR SHALL BEGIN WORK AT THE FAR END OF A CIRCUIT AND AT THE END OF EACH DAY TEMPORARILY RECONNECT TO THE EXISTING CIRCUIT TO RESTORE LIGHTING.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY THE EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL, AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS, AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

THE UNIT PRICE BID FOR ITEM SPECIAL "REPLACEMENT OF EXISTING LIGHTING UNIT" SHALL BE FULL PAYMENT FOR THE REPLACEMENT OF AN EXISTING LIGHTING UNIT WHICH HAS BEEN KNOCKED DOWN AFTER THE AFORMENTIONED INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT.

LIGHTING GENERAL NOTES

GENERAL SUMMARY

CALC. BY JWZ DATE 3-26-84
CHK'D BY JWZ DATE 3-29-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL-30-35.29

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ITEM	SHEET NUMBER 235	237	238	239	239A	239B	239C	ITEM EXT.	TOTAL ITEM	TOTAL QUAN.	UNIT	DESCRIPTION TYPE CODE Y030	
		11	5	6				10500	625	22	EACH	LIGHT POLE DESIGN A12BB40	1
		2	1	0				06400	625	3	EACH	LIGHT POLE DESIGN A15B41.7	3
		7	4	3				06300	625	14	EACH	LIGHT POLE DESIGN A12B41.7	5
		0	1	1				05400	625	2	EACH	LIGHT POLE DESIGN A15B40	7
		0	1	0				05300	625	1	EACH	LIGHT POLE DESIGN A12B40	9
		12	14	5				10500	625	31	EACH	LIGHT POLE DESIGN ST6B34.2	11
		1	0	0				10500	625	1	EACH	LIGHT POLE DESIGN A10B32	13
		12	14	5				14000	625	31	EACH	LIGHT POLE FOUNDATION 24"x6' DEEP	14
		9	15	3				14100	625	17	EACH	LIGHT POLE FOUNDATION 24"x8' DEEP	15
		11	4	6				14300	625	21	EACH	MEDIAN LIGHT POLE FOUNDATION, 8' DEEP	17
		15	16	5				26200	625	36	EACH	LUMINAIRE, STYLE B, TYPE II 200WATT HIGH PRESSURE SODIUM 713.11, 480 VOLT	19
		8	5	2				26400	625	15	EACH	LUMINAIRE, STYLE C, TYPE II 310WATT HIGH PRESSURE SODIUM 713.11, 480 VOLT	20
		23	12	14	21	23	37	26700	625	130	EACH	LUMINAIRE, STYLE C, TYPE III 310WATT HIGH PRESSURE SODIUM 713.11, 480 VOLT	21
		0	8	0				27500	625	8	EACH	LUMINAIRE, UNDERPASS, 100WATT HIGH PRESSURE SODIUM 713.13, 480V	23
						2		28000	625	2	EACH	GLARE SHIELDS	24
		32	23	14				32000	625	69	EACH	GROUND ROD	25
		7	5	4	4	3	10	30700	625	33	EACH	PULLBOX, CONCRETE, 713.08, 18"	27
		0	1	2			3	30706	625	6	EACH	PULLBOX, CONCRETE, 713.08, 24"	29
		0	2	0				29910	625	2	EACH	TRANSITION JUNCTION BOX, AS PER PLAN	33
		4391	4048	1875				29902	625	10314	LIN. FT.	TRENCH, 24" DEEP	35
		203	466	317				25400	625	986	LIN. FT.	CONDUIT, 713.04.2"	37
		404	523	493				25500	625	1420	LIN. FT.	CONDUIT, 713.04.3"	39
		0	0	40				25901	625	40	LIN. FT.	CONDUIT, 713.04 JACKED UNDER R.R. TRACKS, 3" AS PER PLAN	41
		5378	3004	3808	7125	3612		23200	625	22927	LIN. FT.	NO. 4 AWG. 5000 VOLT DISTRUBUTION CABLE	43
		3656	2718	1485	1954	1188		23400	625	11001	LIN. FT.	NO. 10 AWG. POLE AND BRACKET CABLE	45
		4770	4371	1885				24100	625	11026	LIN. FT.	1-1/2" DUCT-CABLE WITH TWO NO4AWG 5000VOLT CABLES	47
				2672	5312			23300	625	7984	LIN. FT.	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLES	49
		33	26	15	18	11		00500	625	103	EACH	CONNECTOR KIT TYPE II	51
		33	26	15	18	11		00600	625	103	EACH	CONNECTOR KIT TYPE III	53
		6	4	12	2			01004	625	24	EACH	CONNECTOR KIT TYPE VIIB	59
		4	0	0				01100	625	4	EACH	CONNECTOR KIT TYPE VIIC	61
		16	16	14	20	10	48	01500	625	124	EACH	CABLE SPLICING KIT	63
		0	1	0				34000	625	1	EACH	POWER SERVICE	67
		1	0	0				33000	625	1	EACH	STRUCTURE GROUNDING SYSTEM FOR BRIDGE NO. COL-30-3560	69
		0	1	0				33000	625	1	EACH	STRUCTURE GROUNDING SYSTEM FOR BRIDGE NO. COL-30-3592	71
		0	1	0				33000	625	1	EACH	STRUCTURE GROUNDING SYSTEM FOR BRIDGE NO. COL 30-3593	73
		0	1	0				33000	625	1	LUMP	SERVICE TO UNDERPASS LIGHTING FOR BRIDGE NO. COL-30-3592	75
		0	1	0				33000	625	1	LUMP	SERVICE TO UNDERPASS LIGHTING FOR BRIDGE NO. COL-30-3593	77
		1	3	0				29900	625	4	EACH	JUNCTION BOX, 18"x8"x6"	79
		4	0	0				10600	625	4	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE NO. COL-30-3560	81
		0	8	0				10600	625	8	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE NO. COL-30-3592	83
		0	4	0				10600	625	4	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE NO. COL-30-3593	85
			40					20000	607	40	LIN. FT.	FENCE, TYPE CL	87
			1					50900	607	1	EACH	GATE, TYPE CL	88
	780							00400	603	780	LIN. FT.	4" CONDUIT TYPE E	89
			LUMP					38000	625	LUMP		HIGH VOLTAGE TEST	91
		0	2	0				17900	625	2	EACH	LIGHTING BRACKET ARM - 6' LENGTH	93
		2	0	0				18100	625	2	EACH	LIGHTING BRACKET ARM - 12' LENGTH	95
	2							98000	SPECIAL	2	EACH	REPLACEMENT OF EXISTING LIGHTING UNIT	96
	LUMP						625	40000	SPECIAL	LUMP		MAINTAIN EXISTING LIGHTING	97
				3	5	3	13	75300	202	24	EACH	PULL BOX REMOVED	
					21	23	37	98100	202	81	EACH	LUMINAIRE REMOVED	
				50	14499	4800		98200	202	19349	LIN. FT.	CABLE REMOVED	

GENERAL LIGHTING SUMMARY

LIGHTING QUANTITIES SUB-SUMMARY

CALC. BY JWZ DATE 3-26-84
CHK'D BY JWZ DATE 3-29-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

625

| REFERENCE № | SIDE | STATION | STATION | LIGHT POLE DESIGN A12B40 | LIGHT POLE DESIGN AT1B41.7 | LIGHT POLE DESIGN AT12B41.7 | LIGHT POLE DESIGN STR.15B39.0 | LIGHT POLE DESIGN STR.12B39.0 | LIGHT POLE DESIGN ST6B34.2 | LIGHT POLE DESIGN A10B32. | LIGHT POLE FOUNDATION 24"x8' | MEDIAN LIGHT POLE FOUNDATION, 8' DEEP | LUMINAIRE, STYLE B TYPE II 200 WATT HIGH PRESSURE SODIUM 713.11 | LUMINAIRE, STYLE C TYPE II 310 WATT HIGH PRESSURE SODIUM 713.11 | LUMINAIRE, UNDERPASS 100 WATT HIGH PRESSURE SODIUM 713.13 | LUMINAIRE, STYLE C TYPE III, 310 WATT HIGH PRESSURE SODIUM 713.11 | PULLBOX, CONCRETE 713.18 | PULLBOX, CONCRETE 713.08, 24" | PULLBOX, CONCRETE 713.08, 18" | LIGHT POLE FOUNDATION 24"x6' | TRANSITION JUNCTION BOX, AS PER PLAN | TRENCH | CONDUIT 2" 713.04 | CONDUIT 3" 713.04 | CONDUIT 3" 713.04 JACKED UNDER R.R. TRACKS AS PER PLAN | N°4 AWG, 5000 VOLT DISTRIBUTION CABLE | N°10 AWG POLE & BRACKET CABLE | 1 1/2" DUCT-CABLE WITH TWO N°4 AWG 5000 VOLT CABLES | CABLE SPLICING KIT | CONNECTOR KIT TYPE II | CONNECTOR KIT TYPE III | LIGHTING BRACKET ARM-6' LENGTH | LIGHTING BRACKET ARM-12' LENGTH | CONNECTOR KIT TYPE VII B | CONNECTOR KIT TYPE VII C | JUNCTION BOX 18"x8"x6" | GROUND ROD | POWER SERVICE | STRUCTURE GROUNDING SYSTEM FOR BRIDGE N° COL-30-3560 | STRUCTURE GROUNDING SYSTEM FOR BRIDGE N° COL-30-3592 | STRUCTURE GROUNDING SYSTEM FOR BRIDGE N° COL-30-3593 | SERVICE TO UNDERPASS LIGHTING FOR BRIDGE N° COL-30-3592 | SERVICE TO UNDERPASS LIGHTING FOR BRIDGE N° COL-30-3593 | | LIGHT POLE ANCHOR BOLTS ON STRUCTURE N° COL-30-3560 | LIGHT POLE ANCHOR BOLTS ON STRUCTURE N° COL-30-3592 | LIGHT POLE ANCHOR BOLTS ON STRUCTURE N° COL-30-3593 |
|---|---|---|---

LIGHTING QUANTITIES SUB-SUMMARY

CALC. BY JWZ DATE 3-26-84
CHK'D BY JWZ DATE 3-29-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

| REFERENCE № | SIDE | STATION | STATION | LIGHT POLE DESIGN A12B40 | LIGHT POLE DESIGN A15B41.7 | LIGHT POLE DESIGN AT12B41.7 | LIGHT POLE DESIGN , A15B40 | LIGHT POLE DESIGN , A12B40 | LIGHT POLE DESIGN ST6B34.2 | LIGHT POLE DESIGN , A10B32 | LIGHT POLE FOUNDATION 24"x6' | MEDIAN LIGHT POLE FOUNDATION 8 DEEP | LUMINAIRE STYLE B TYPE II 200 WATT HIGH PRESSURE SODIUM 713.11 | LUMINAIRE, STYLE C TYPE II 310 WATT HIGH PRESSURE SODIUM 713.11 | LUMINAIRE, UNDERPASS 100 WATT HIGH PRESSURE SODIUM 713.15 | LUMINAIRE, STYLE C TYPE III 310 WATT HIGH PRESSURE SODIUM 713.11 | PULLBOX, CONCRETE 713.08, 18" | PULLBOX, CONCRETE 713.08, 24" | LIGHT POLE FOUNDATION 24"x8'0" DEEP | TRANSITION JUNCTION BOX AS PER PLAN | TRENCH | CONDUIT 2" 713.04 | CONDUIT 3" 713.04 | CONDUIT 3#713.04 JACKED UNDER R.R. TRACKS, AS PER PLAN | №4 AWG, 5000 VOLT DISTRIBUTION CABLE | №10 AWG POLE & BRACKET CABLE | 1½" DUCT, CABLE WITH №10 AWG, 5000 VOLT CABLES | CABLE SPLICING KIT | CONNECTOR KIT TYPE II | CONNECTOR KIT TYPE III | LIGHTING BRACKET ARM-6' LENGTH | LIGHTING BRACKET ARM-12' LENGTH | CONNECTOR KIT TYPE VII B | CONNECTOR KIT TYPE VII C | JUNCTION BOX 18"x8"x6" | GROUND ROD | POWER SERVICE | STRUCTURE GROUNDING SYSTEM FOR BRIDGE № COL-30-3560 | STRUCTURE GROUNDING SYSTEM FOR BRIDGE № COL-30-3592 | STRUCTURE GROUNDING SYSTEM FOR BRIDGE № COL-30-3593 | SERVICE TO UNDERPASS LIGHTING FOR BRIDGE № COL-30-3592 | SERVICE TO UNDERPASS LIGHTING FOR BRIDGE № COL-30-3593 | HIGH VOLTAGE TEST | LIGHT POLE ANCHOR BOLTS ON STRUCTURE № COL-30-3560 | LIGHT POLE ANCHOR BOLTS ON STRUCTURE № COL-30-3592 | LIGHT POLE ANCHOR BOLTS ON STRUCTURE № COL-30-3593 | FENCE, TYPE CL | GATE, TYPE CL | | |
|---|---|---|---

LIGHTING QUANTITIES SUB-SUMMARY

CALC. BY JWZ DATE 3-26-84
CHK'D BY JWZ DATE 3-26-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

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REFERENCE №	SIDE	STATION	STATION	LIGHT POLE DESIGN A12BB40	LIGHT POLE DESIGN A11BB41.7	LIGHT POLE DESIGN A12B41.7	LIGHT POLE DESIGN A11B40	LIGHT POLE DESIGN A12B40	LIGHT POLE DESIGN S16B34.2	LIGHT POLE DESIGN A10B32	LIGHT POLE FOUNDATION 24"x6'	MEDIAN LIGHT POLE FOUNDATION 8 DEEP	LUMINAIRE STYLE B, TYPE II 200 WATT HIGH PRESSURE SODIUM 713.11	LUMINAIRE STYLE C TYPE II 310 WATT HIGH PRESSURE SODIUM 713.11	LUMINAIRE, UNDERPASS 100 WATT HIGH PRESSURE SODIUM 713.13	LUMINAIRE, STYLE C, TYPE III, 310 WATT HIGH PRESSURE SODIUM, 713.11	PULLBOX, CONCRETE 713.08, 18"x24"	PULLBOX, CONCRETE 713.08, 24"	LIGHT POLE FOUNDATION 24"x8' DEEP	TRANSITION JUNCTION BOX, AS PER PLAN	TRENCH	CONDUIT 2" 713.04	CONDUIT 3" 713.04	CONDUIT 3" 713.04 JACKED UNDER R.R. TRACKS, AS PER PLAN	N°4AWG, 5000 VOLT DISTRIBUTION CABLE	N°1/0AWG POLE & BRACKET CABLE	1½" DUCT CABLE WITH N°6 AWG 5000 VOLT CABLES	CABLE SPLICING KIT	CONNECTOR KIT TYPE II	CONNECTOR KIT TYPE III	LIGHTING BRACKET ARM-6' LENGTH	LIGHTING BRACKET ARM-12' LENGTH	CONNECTOR KIT TYPE VII B	CONNECTOR KIT TYPE VII C	JUNCTION BOX 18"x8"x6"	GROUND ROD	POWER SERVICE	STRUCTURE GROUNDING SYSTEM FOR BRIDGE № COL-30-3592	STRUCTURE GROUNDING SYSTEM FOR BRIDGE № COL-30-3593	SERVICE TO UNDERPASS LIGHTING FOR BRIDGE № COL-30-3592	SERVICE TO UNDERPASS LIGHTING FOR BRIDGE № COL-30-3593		LIGHT POLE ANCHOR BOLTS ON STRUCTURE № COL-30-3560	LIGHT POLE ANCHOR BOLTS ON STRUCTURE № COL-30-3592	LIGHT POLE ANCHOR BOLTS ON STRUCTURE № COL-30-3593		#2 AWG, 5000 VOLT DISTRIBUTION CABLE	PULL BOX REMOVED	CABLE REMOVED
1	SHEET № 244			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LUMP	LUMP		EACH	EACH	EACH		LIN. FT.	EACH	LIN. FT.
2	STA.	REF. TO "M"																																													
3	℄	999+00	1001+67	2								2				4				564	216			2	2			2			2													
4	LT.	1001+67	1001+67 RAMP"O"																	60		60			70																			
5	℄	1001+67	1003+67	1								1				2				420	108			1	1			2			1												
6	RT.	1003+67	1004+20 RAMP"M"																	97		97			107																			
7	℄	1003+67	1005+67	1								1				2				420	108			1	1			2			1												
8	LT.	1005+67	1005+20															1		150		150		328		6															640		
9	LT.	1005+20																1																										
10	℄	1005+67	1007+67	1								1				2				420	108			1	1			2			1										840	1	50
11	LT.	1007+67	1007+90																	80		55			90																		
12	LT.	1007+90																								2																	
13	℄	1007+67	1009+81	1								1				2				448	108			1	1			2			1										896		
14	℄	1009+81	1010+50																					148																	296		
15	STA.	REF. TO RAMP	"M"																																									
16	RT.	999+00	1004+20			2								2				2		480	40			90	216	500		2	2														
17	RT.	1004+20				1										1		1							108						2												
18	RT.	1004+20	1004+58																	38					48																		
19	RT.	1004+38															1									2																	
20	RT.	1004+58	1004+68																		10																					
21	RT.	1004+58	1006+60																					424																		
22	RT.	1006+60					1									1									108						1											
23																																												
24	STA.	REF. TO RAMP	"O"																																								
25	LT.	999+00	1001+67																		267			554																		
26	LT.	1000+13															1									2																	
27	LT.	1000+13	1001+67														1			154					164																		
28	LT.	1001+67															1									2																	
29																																												
30	STA.	REF. TO SECOND	ST.																																								
31	LT&RT.	31+00	31+85																	125		40			135																		
32	LT&RT.	31+85	34+45						2		2		2							395		35	40		455			2	2														
33	RT.	34+45							1		1		1												81						1											
34	LT&RT.	34+45	36+25						1		1		1							206		26			216			1	1														
35	RT.	34+45	4+47 RIVER RD.																	90		30			100																		
36																																												
37	STA.	REF. TO RIVER	RD.																																								
38	LT.	4+47							1		1		1												81				1	1												
39	LT.	1007+44	ML																																							1		
40	LT.	1007+65	ML																																							1		
41	TOTAL SHEET № 244			6		3	1		5		5	6	5	2		14	4	2	3	1875	317	493	40	3808	1485	1885	14	15	15		12		14							2672	3	50
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83	TOTAL THIS SHEET			9	0	0	1	0	5	0	8	6	5	2	0	14	4	1	0	1875	317	493	40	3808	1485	1885	20	15	15	0	0	12	0	0	14	0	0	0	0	0	0	—	0	0	0	—	2672	2	1

LIGHTING QUANTITIES SUB-SUMMARY

QUANTITIES			
Calc.	J.C.N.	Chk'd.	JNM
Date	11-30-89	Date	12-11-89

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL-30-35.29

239A 262

| REF. NO. | STATION TO STATION | SIDE | 202 | | | | | | | 625 | | | | | | | | | | | | | | | | | | | | | | SPECIAL | | | | | | | | | | | | | | | | | | |

LIGHTING QUANTITIES SUB-SUMMARY

QUANTITIES			
Calc.	J.C.N.	Chk'd.	JNM
Date	11-30-89	Date	12-11-89

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL-30-35.29

239B 362

| REF. NO. | STATION TO STATION | SIDE | 202 | | | | | | | 625 | | | | | | |

LIGHTING QUANTITIES SUB-SUMMARY

QUANTITIES			
Calc.	J.C.N.	Chk'd.	JNM
Date	11-30-89	Date	12-11-89

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL-30-35.29

239C
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| REF. NO. | STATION TO STATION | SIDE | 202 | | | 625 | | |

CALC. BY JWZ DATE 3-26-84
CHKD. BY JWZ DATE 3-26-84

OHIO
FHWA REGION 5

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CONTROL CENTER DATA

	CONTROL CENTER	CONNECTED LOAD KVA	CONTACTOR RATING VOLTS	ENCLOSURE RATING AMPS	CIRCUIT NUMBER	CIRCUIT LOAD AMPS	CIRCUIT FUSE AMPS
*	LN	36.0	480	60	1LN	28.3	60
					2LN	25.8	30
					3LN	20.8	30
	SW	21.0	480	60	1SW	12.3	20
					2SW	19.3	30
					3SW	12.1	20

* - EXISTING CONTROL CENTER

POLE DATA CHART

REFERENCE LETTER	POLE DESIGN NUMBER	FOUNDATION ANCHOR BOLTS SIZE ϕ x LENGTH	BOLT CIRCLE DIAMETER	TRANSFORMER BASE STYLE
A	A12BB40*	1¼" x 52"	SEE DWG HL-20.13	N/A
B	AT15B41.7	1¼" x 48"	15"	AT-A
C	AT12B41.7	1¼" x 48"	15"	AT-A
D	A15B40	SEE DWG HL-10.13	12½"	N/A
E	A12B40	SEE DWG HL-10.13	12½"	N/A
F	ST6B34.2	1" x 40"	15"	ST
G	A10B32	SEE DWG HL-10.13	11"	N/A
D*	THE MEDIAN POLE BASE PLATE SHALL BE STEEL 12"x 22", 1¼" THICK W/1½" DIAMETER HOLES SPACED TO MATCH ANCHOR BOLTS AS SHOWN ON HL-20.13			

DESIGN CRITERIA

TYPE OF LIGHTING ——— MEDIAN AND SIDE MOUNTED
ILLUMINATION ——— 1.2FC AVERAGE INITIAL
LAMPS ——— 150WATT H.P.S. - UNDERPASS
200WATT H.P.S. - ROADWAY
310 WATT H.P.S. - ROADWAY
UNIFORMITY ——— 4:1 MAXIMUM ALL ROADWAYS
DISTRIBUTION ——— 150W H.P.S. ANSI-IES TYPE II M-SC
200W H.P.S. ANSI-IES TYPE II M-SC
310 W. H.P.S. ANSI-IES TYPE II & III M-SC
SYSTEM VOLTAGE ——— 480VOLT - 2WIRE - ONE SIDE GROUNDED
ROADWAY WIDTH ——— VARIABLE

LIGHTING KEY

- MEDIAN MOUNTED LIGHTPOLE INSTALLATION WITH TWIN ARMS & 2- 310WATT HIGH PRESSURE SODIUM LUMINAIRES. WITH MATCHING INTEGRAL BALLAST. 41.7' MOUNTING HEIGHT. DISTRIBUTION SHOWN ON PLANS.
- GROUND MOUNTED LIGHTPOLE INSTALLATION WITH 310WATT HIGH PRESSURE SODIUM LUMINAIRE WITH MATCHING INTEGRAL BALLAST. 41.7' MOUNTING HEIGHT. DISTRIBUTION SHOWN ON PLANS.
- STRUCTURE MOUNTED LIGHTPOLE INSTALLATION WITH 310WATT HIGH PRESSURE SODIUM LUMINAIRE WITH MATCHING INTEGRAL BALLAST. 41.7' MOUNTING HEIGHT. DISTRIBUTION SHOWN ON PLANS.
- GROUND MOUNTED LIGHTPOLE INSTALLATION WITH 200WATT HIGH PRESSURE SODIUM LUMINAIRE WITH MATCHING INTEGRAL BALLAST. 34.2' MOUNTING HEIGHT. DISTRIBUTION SHOWN ON PLANS.
- STRUCTURE MOUNTED LIGHTPOLE INSTALLATION WITH 200WATT HIGH PRESSURE SODIUM LUMINAIRE WITH MATCHING INTEGRAL BALLAST. 34.2' MOUNTING HEIGHT. DISTRIBUTION SHOWN ON PLANS.
- COMBINATION SIGN AND LIGHT POLE INSTALLATION WITH 200WATT HIGH PRESSURE SODIUM LUMINAIRE WITH MATCHING INTEGRAL BALLAST. 34.2' MOUNTING HEIGHT. DISTRIBUTION SHOWN ON PLANS.
- EXISTING LIGHTPOLE INSTALLATION TO REMAIN
- UNDERPASS LUMINAIRE - 150WATT HIGH PRESSURE SODIUM LAMP WITH MATCHING INTEGRAL BALLAST. MOUNTING HEIGHT VARIES.
- ILLUMINATED OVERHEAD SIGNS
- MEDIAN PULLBOX
- 18" PULLBOX, 24" PULLBOX OR CABLE SPLICING KITS AS NOTED ON PLANS.
- TRANSITION PULLBOX
- 1½" DUCT CABLE 5000VOLT - 2 INSULATED SINGLE CONDUCTORS IN 24" DEEP TRENCH. N°4 AWG UNLESS OTHERWISE NOTED.
- 2-1/C #4 AWG, 5000VOLT, DISTRIBUTION CABLE IN MEDIAN RACEWAY UNLESS OTHERWISE NOTED.
- CONDUIT 2" 713.04 WITH 2-1/C #4 AWG, 5000VOLT, DISTRIBUTION CABLE UNLESS OTHERWISE NOTED.
- CONDUIT 3" 713.04 WITH 2-1/C #4 AWG, 5000VOLT, DISTRIBUTION CABLE UNLESS OTHERWISE NOTED.
- CONDUIT 3" 713.04 WITH 1½" DUCT CABLE, 5000VOLT - 2 INSULATED SINGLE CONDUCTORS, N°4 AWG PULLED THRU, UNLESS OTHERWISE NOTED.
- EXISTING SERVICE POLE AND CONTROL CENTER.
- PROPOSED SERVICE POLE AND CONTROL CENTER.

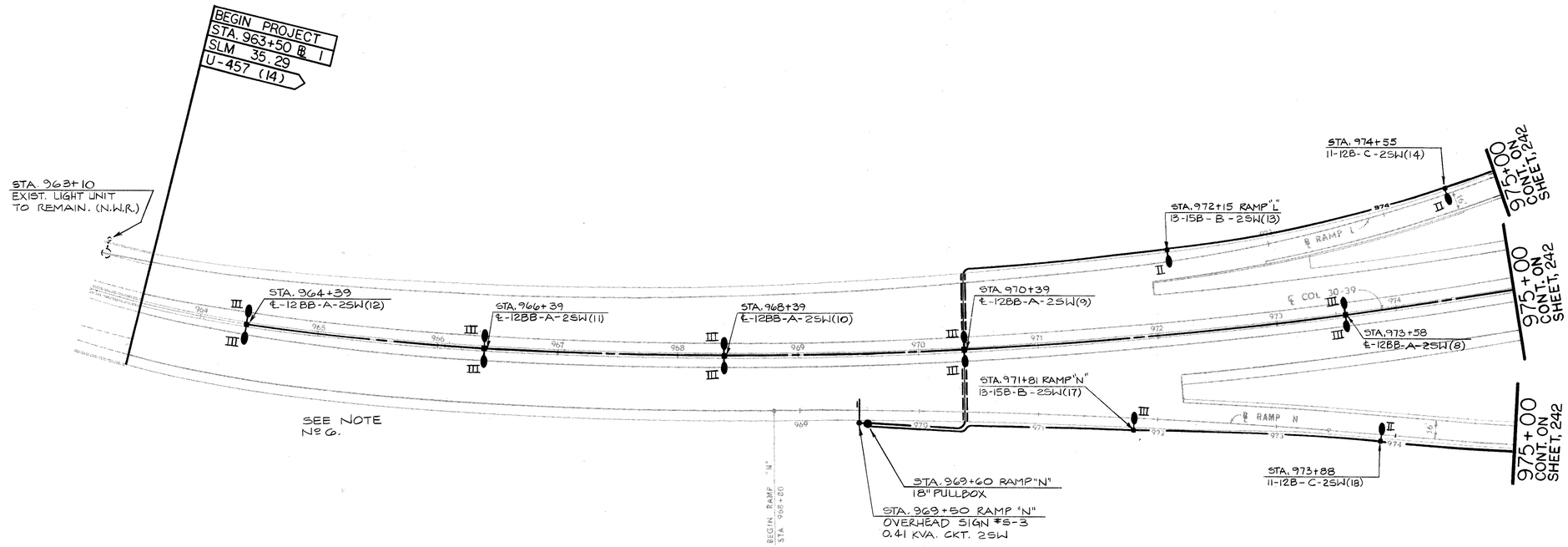
13-15B-B-2SW(13) — TYPICAL LIGHT POLE DESIGNATION. THE FIRST DESIGNATION (13) IS THE OFFSET DISTANCE FROM THE EDGE OF TRAVELED PAVEMENT. THE SECOND DESIGNATION (15B) IS THE BRACKET ARM LENGTH. THE THIRD DESIGNATION (B) IS THE POLE REFERENCE LETTER. THE FOURTH DESIGNATION (2SW(13)) IS THE CIRCUIT NUMBER, CONTROL CENTER IDENTIFICATION AND THE NUMBER OF THE LIGHT POLE IN THAT CIRCUIT.

- EXISTING OHIO POWER CO. UTILITY POLE
- EXISTING CONDUIT AND CABLE

DESIGN CRITERIA

CALC. BY		OHIO	241
DATE		FHWA REGION 5	362
CHKD. BY			
DATE			

COL - 30 - 35.29



NOTES:

1. ALL WIRE TO BE 2#4 UNLESS OTHERWISE NOTED.
2. FOR LIGHTING DETAILS SEE SHT. № 245 & 247
3. FOR QUANTITIES SEE SHT. № 237
4. FOR DESIGN CRITERIA SEE SHT. № 240
5. FOR CIRCUIT MAPS SEE SHT. № 249 & 250
6. FOR EXISTING LIGHT POLE & FOUNDATION REMOVALS. SEE SHT. № 52 & 53
7. FOR LIGHTING KEY SEE SHEET № 240

50 25 0 50 100

SCALE: 1"= 50'

LIGHTING PLAN
BEGIN PROJECT TO STA. 975+00 ℳ

CALC. BY DATE		OHIO	242
CHKD. BY DATE		FHWA REGION 5	362

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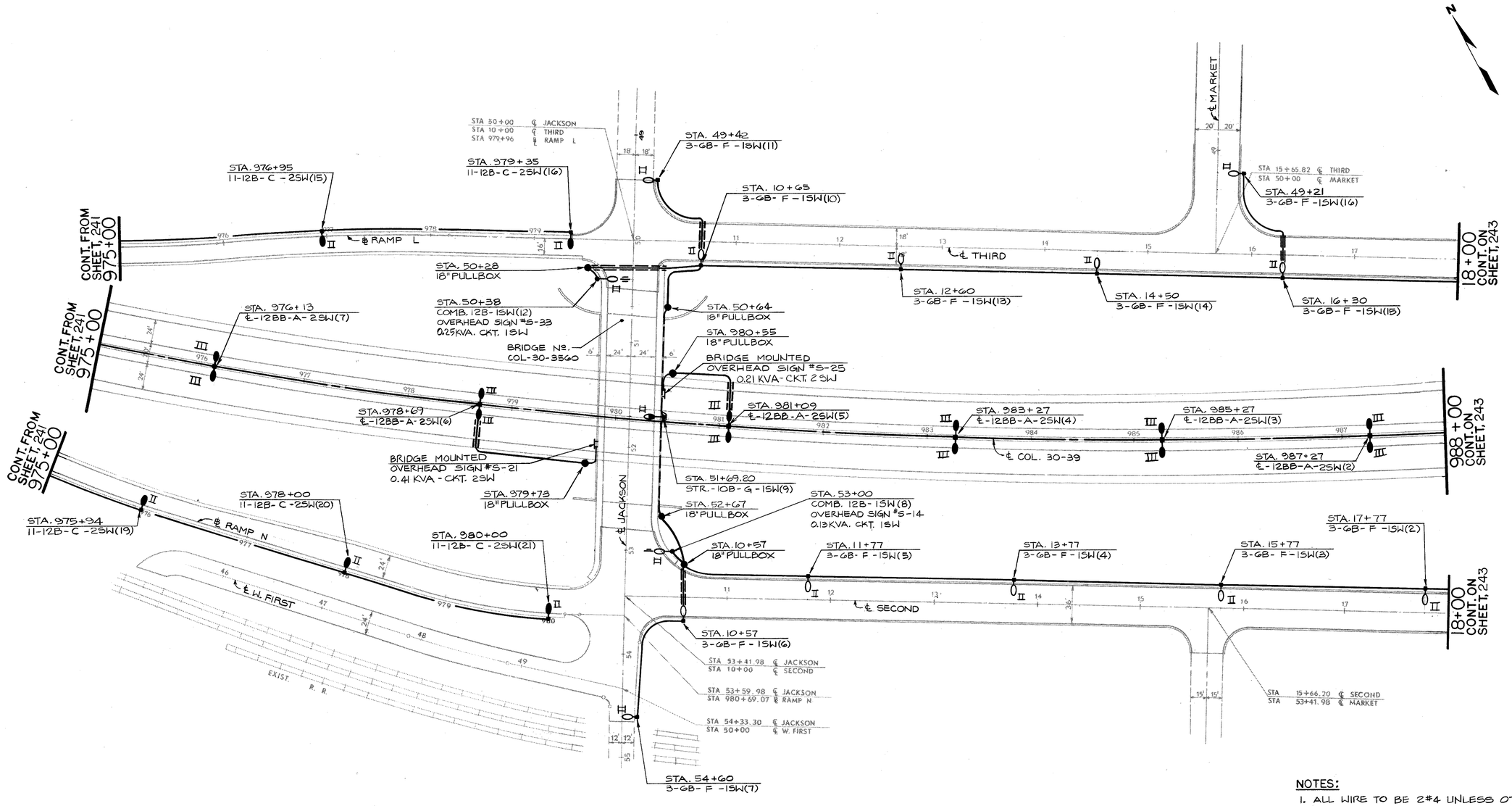


NOTES:

1. ALL WIRE TO BE 2#4 UNLESS OTHERWISE NOTED.
2. FOR LIGHTING DETAILS SEE SHT. No. 245 & 247
3. FOR QUANTITIES SEE SHT. No. 237
4. FOR DESIGN CRITERIA SEE SHT. No. 240
5. FOR CIRCUIT MAPS SEE SHT. No. 249 & 250
6. FOR LIGHTING KEY SEE SHEET No. 240

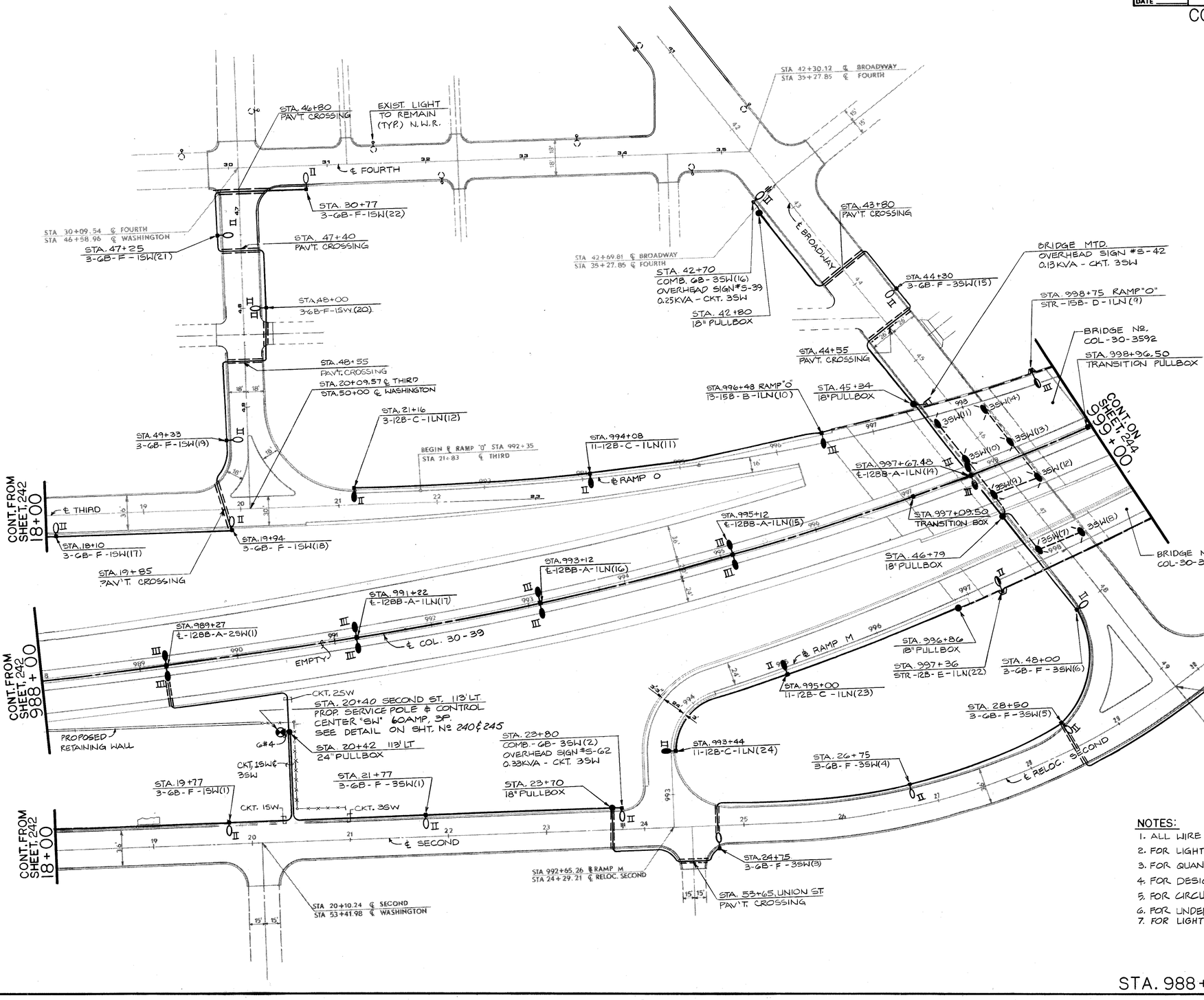
50 25 0 50 100

SCALE: 1"=50'

LIGHTING PLAN
STA. 975+00 M TO STA. 988+00 M

CALC. BY DATE		OHIO	243
CHKD. BY DATE		FHWA REGION 5	362

COL-30-35.29



NOTES:

1. ALL WIRE TO BE 2#4 UNLESS OTHERWISE NOTED
2. FOR LIGHTING DETAILS SEE SHT. Nº 245 & 247
3. FOR QUANTITIES SEE SHT. Nº 238
4. FOR DESIGN CRITERIA SEE SHT. Nº 240
5. FOR CIRCUIT MAPS SEE SHT. Nº 249 & 250
6. FOR UNDERPASS LIGHTING DETAILS SEE SHT. Nº 248
7. FOR LIGHTING KEY SEE SHT. NO. 240

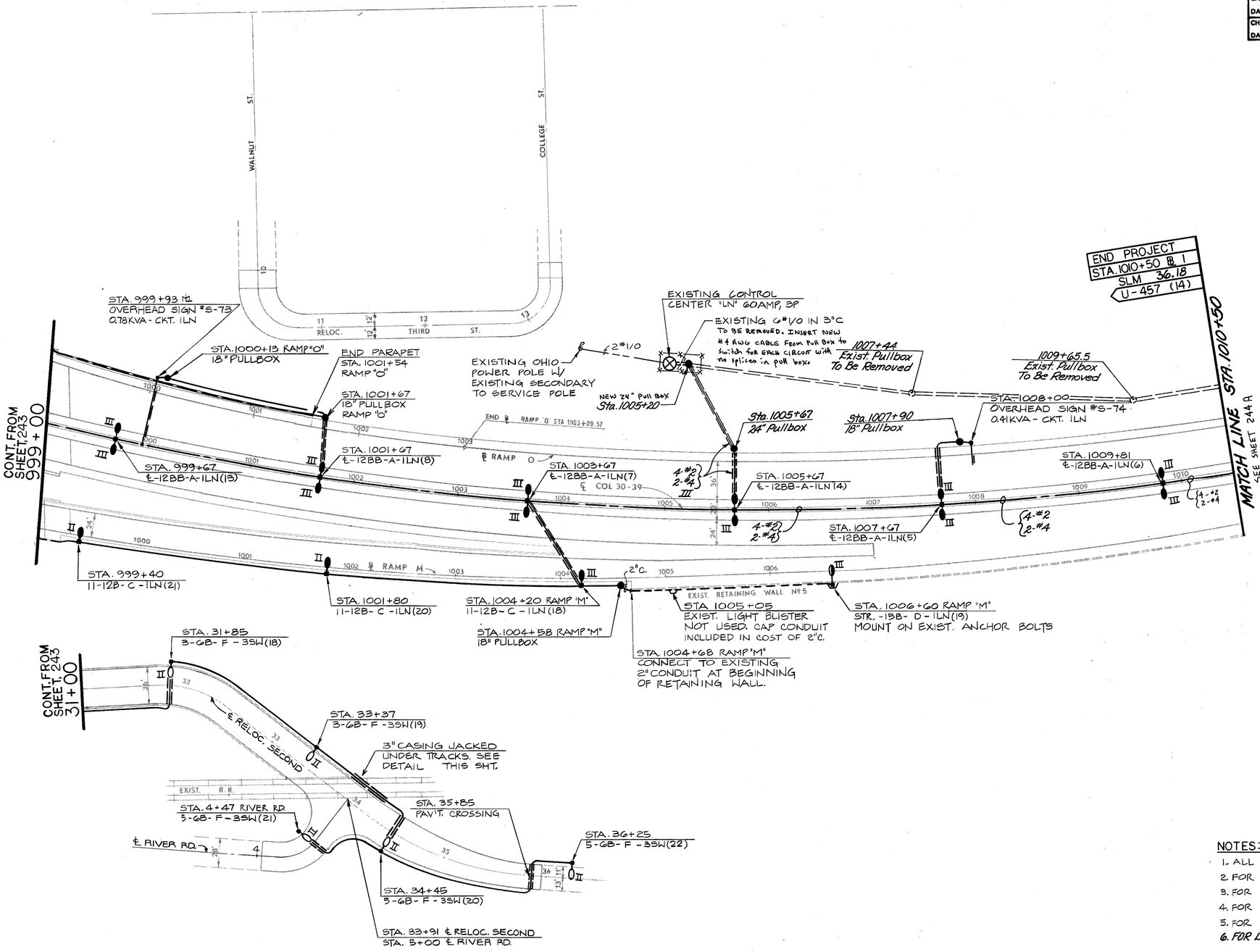
50 25 0 50 100

SCALE: 1" = 50'

LIGHTING PLAN
STA. 988+00 M TO STA. 999+00 M

COL-30-35.29

N



NOTES:

1. ALL WIRE TO BE 2#4 UNLESS OTHERWISE NOTED.
2. FOR LIGHTING DETAILS SEE SHT. Nº 245 & 247
3. FOR QUANTITIES SEE SHT. Nº 239
4. FOR DESIGN CRITERIA SEE SHT. Nº 240
5. FOR CIRCUIT MAPS SEE SHT. Nº 249 & 250
6. FOR LIGHTING KEY, SEE SHEET Nº 240

50 25 0 50 100
SCALE: 1"= 50'

LIGHTING PLAN
STA. 999+00 ℄ TO STA. 1010+50

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL - 30 - 35.29

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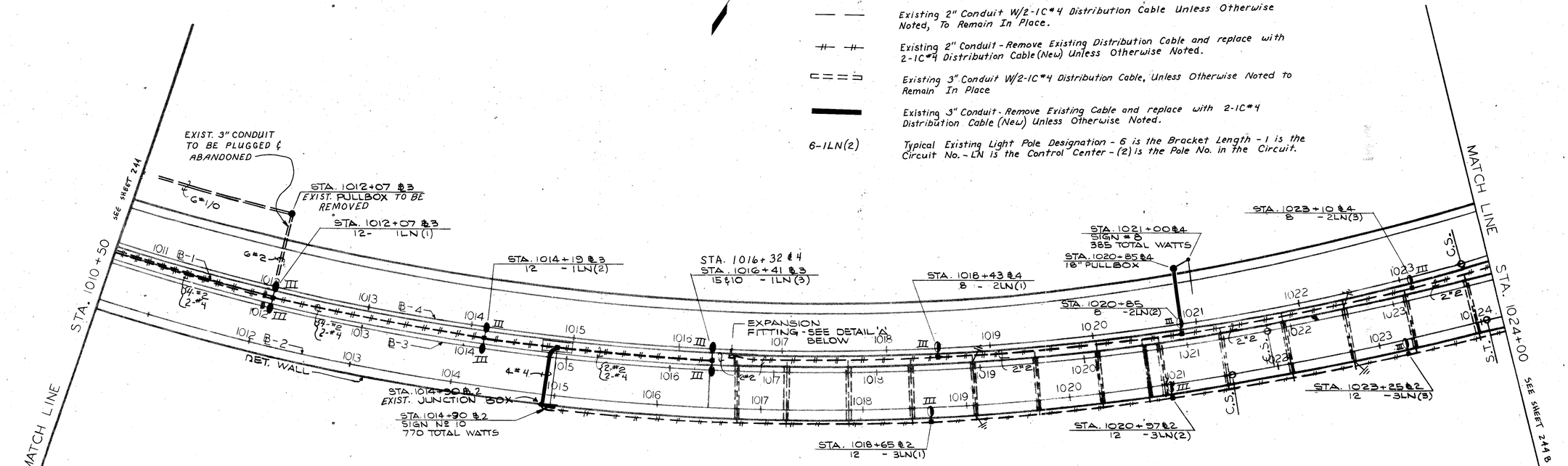
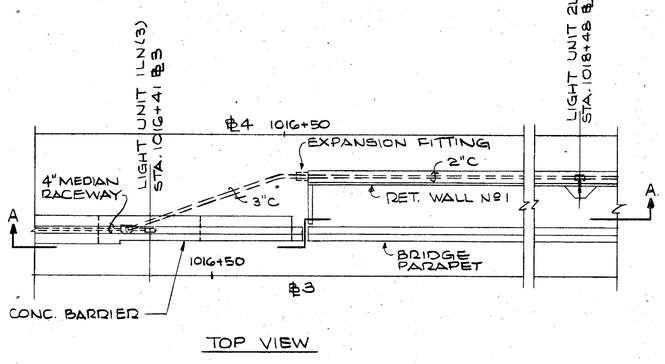
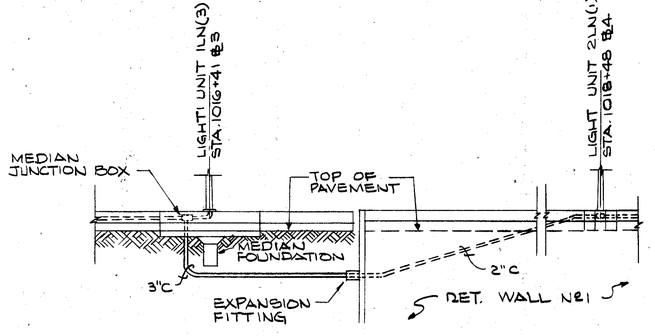
LIGHTING KEY

- Existing Median Mounted Light Pole with 2 Luminaire and 41.7' Mounting Height. Distribution shown on Plan.
- Existing Structure Mounted Light Pole with 1 Luminaire and 41.7' Mounting Height. Distribution shown on Plan.
- Existing Ground Mounted Light Pole with 1 Luminaire and 41.7' Mounting Height. Distribution shown on Plan.
- Existing Illuminated Overhead Sign.
- Existing Pullbox To Be Removed and replaced with New Pullbox.
- Existing Pullbox To Be Removed.
- Existing Control Center and Service Pole.
- Existing Duct Cable To Remain In Place.
- Existing 2" Conduit W/2-1C#4 Distribution Cable Unless Otherwise Noted, To Remain In Place.
- Existing 2" Conduit - Remove Existing Distribution Cable and replace with 2-1C#4 Distribution Cable (New) Unless Otherwise Noted.
- Existing 3" Conduit W/2-1C#4 Distribution Cable, Unless Otherwise Noted to Remain In Place
- Existing 3" Conduit - Remove Existing Cable and replace with 2-1C#4 Distribution Cable (New) Unless Otherwise Noted.
- 6-1LN(2) Typical Existing Light Pole Designation - 6 is the Bracket Length - 1 is the Circuit No. - LN is the Control Center - (2) is the Pole No. in the Circuit.





TOP VIEW



SECTION A-A

DETAIL 'A'

SCALE 1" = 10'

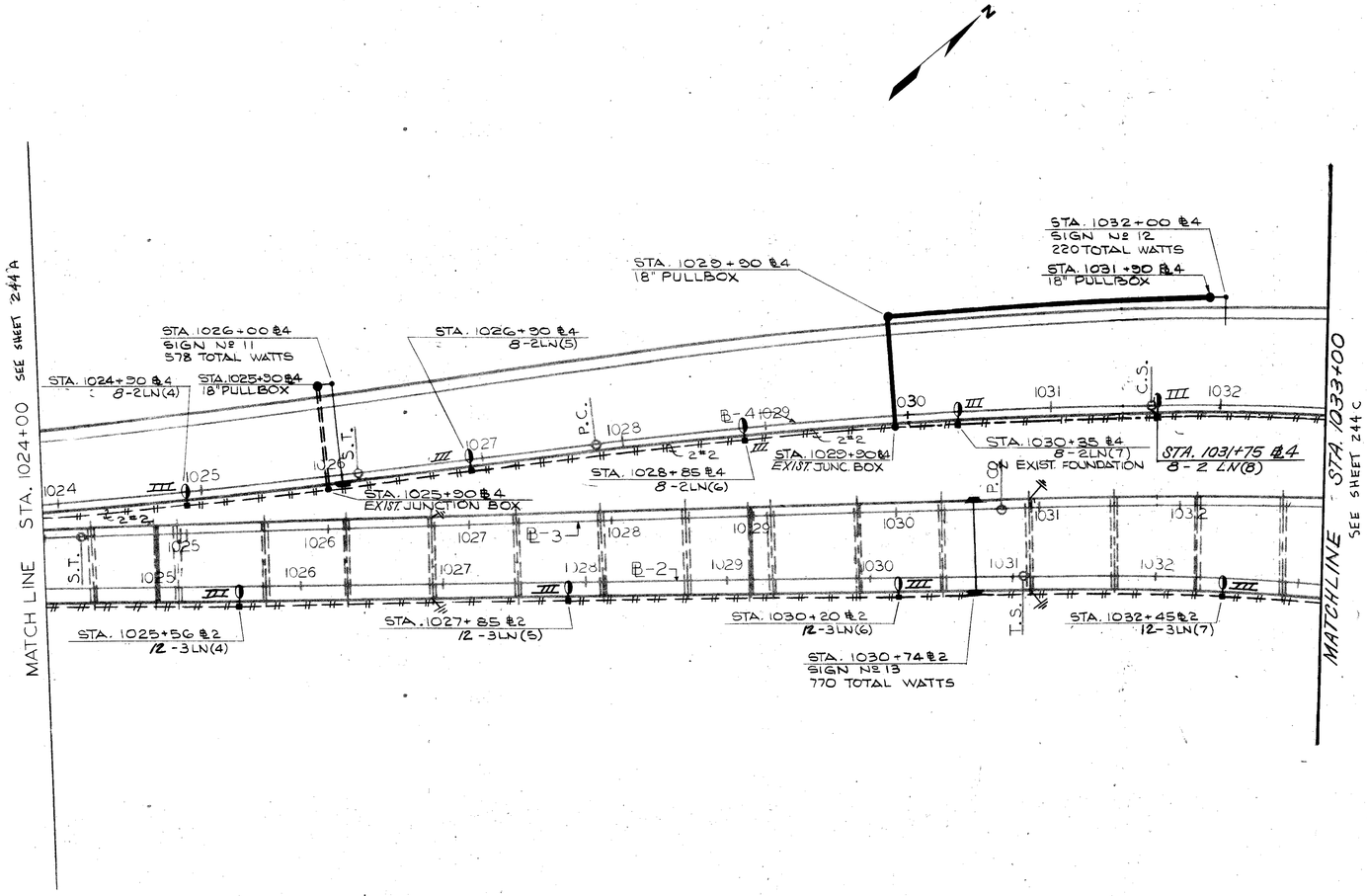
NOTES:
1. For Quantities, See Sheet No. 239 A
2. For Circuit Map, See Sheet No. 249 & 250

LIGHTING PLAN
STA. 1010+50 TO STA. 1024+00

FHWA REGION	STATE	PROJECT	
5	OHIO		

244B
362

COL - 30 - 35.29



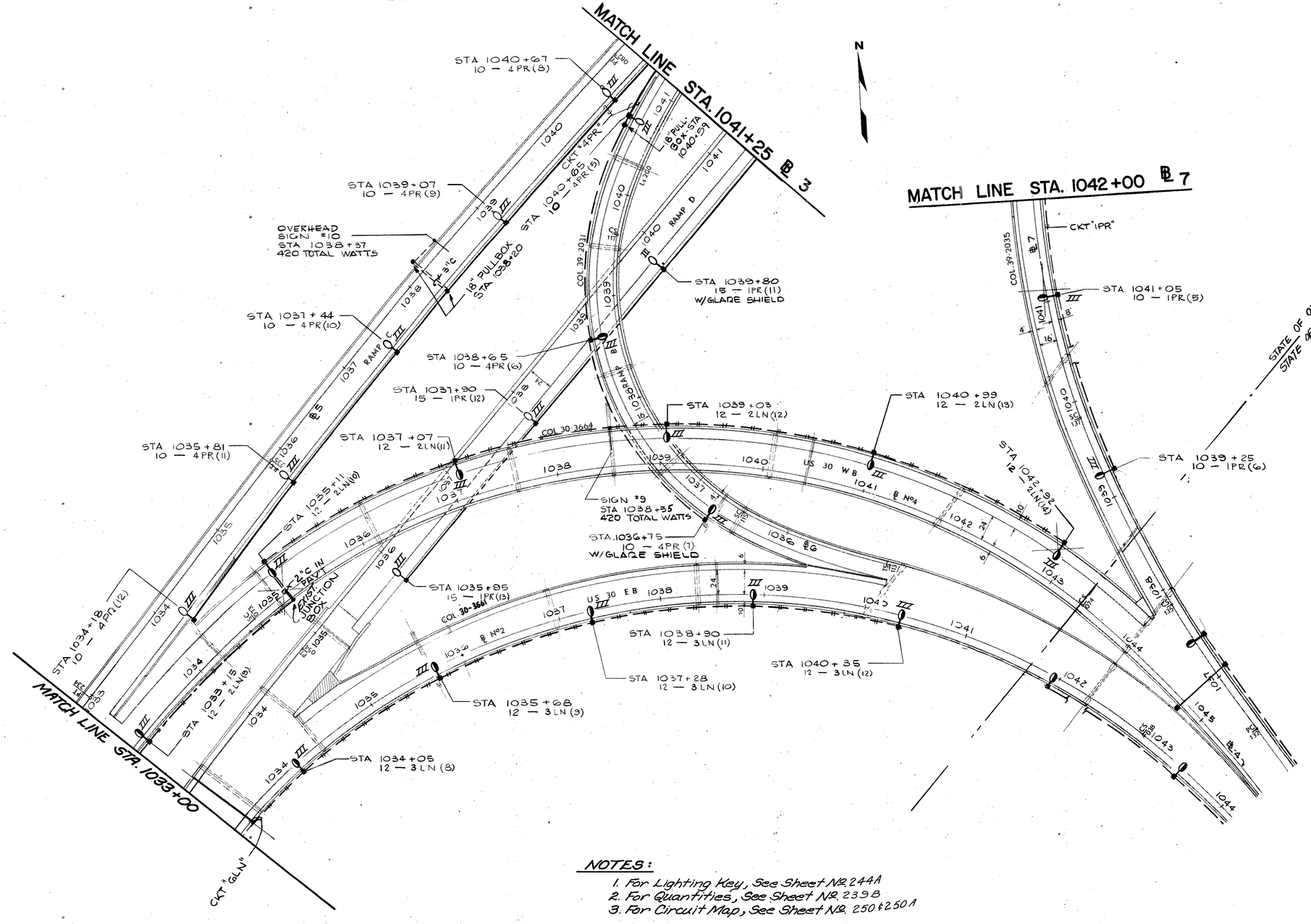
Note:
1. For Lighting Key, See Sheet № 244A
2. For Quantities, See Sheet № 239A
3. For Circuit Map, See Sheet № 250

LIGHTING PLAN
STA. 1024+00 TO STA. 1033+00

FHWA REGION	STATE	PROJECT	
5	OHIO		

244C
362

COL-30-35.29



NOTES:

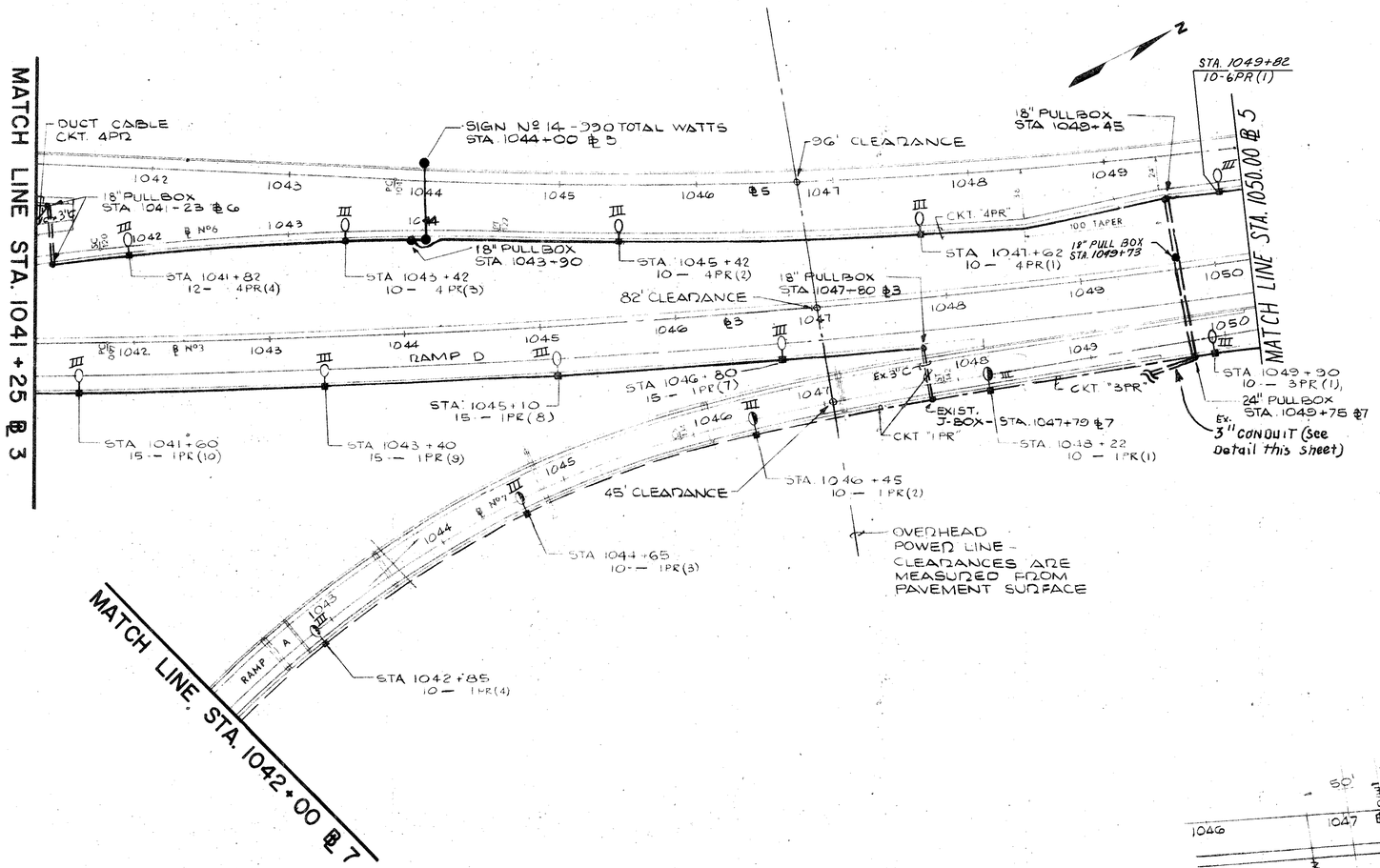
1. For Lighting Key, See Sheet No. 244A
2. For Quantities, See Sheet No. 239B
3. For Circuit Map, See Sheet No. 250 & 250A

LIGHTING PLAN
STA. 1033+00 TO STA. 1041+25 ℄ 3

FHWA REGION	STATE	PROJECT	
5	OHIO	ER-161(10)	

2440
362

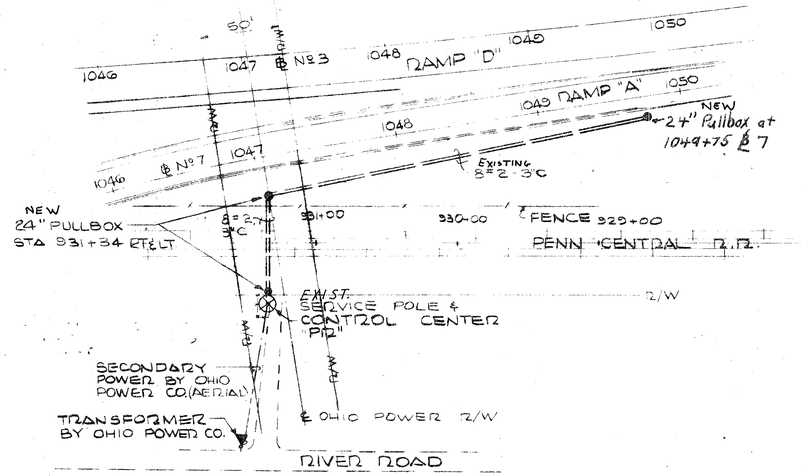
COL. 30 - 35.29



480 Volt, 2-Wire, 1-ϕ, Grounded Neutral Service by The Ohio Power Co.

NOTE:

1. For Lighting Key, See Sheet No. 244 A
2. For Quantities, See Sheet No. 239C
3. For Circuit Map, See Sheet No. 250A & 250B



CONTROL CENTER CONNECTION DETAIL

SCALE : 1" = 50'

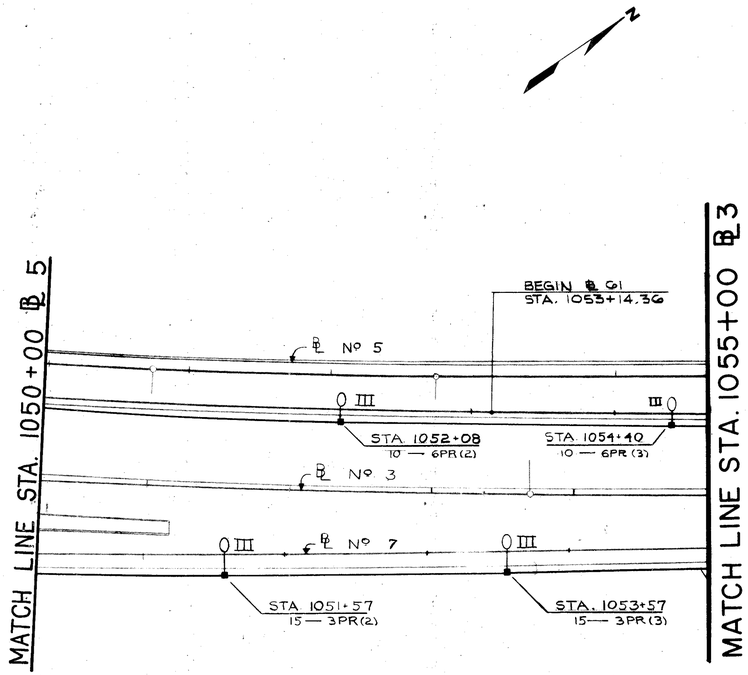
LIGHTING PLAN

STA. 1041+25 ℄ 3 TO STA. 1050+00 ℄ 5

FHWA REGION	STATE	PROJECT	
5	OHIO		

244E
362

COL-30-35 29



NOTES:

SEE SHT. Nº. 239C FOR LIGHTING QUANTITIES

SEE SHT. Nº. 250A & 250B FOR CIRCUIT MAPS

ALL WIRE TO BE #4 UNLESS OTHERWISE NOTED

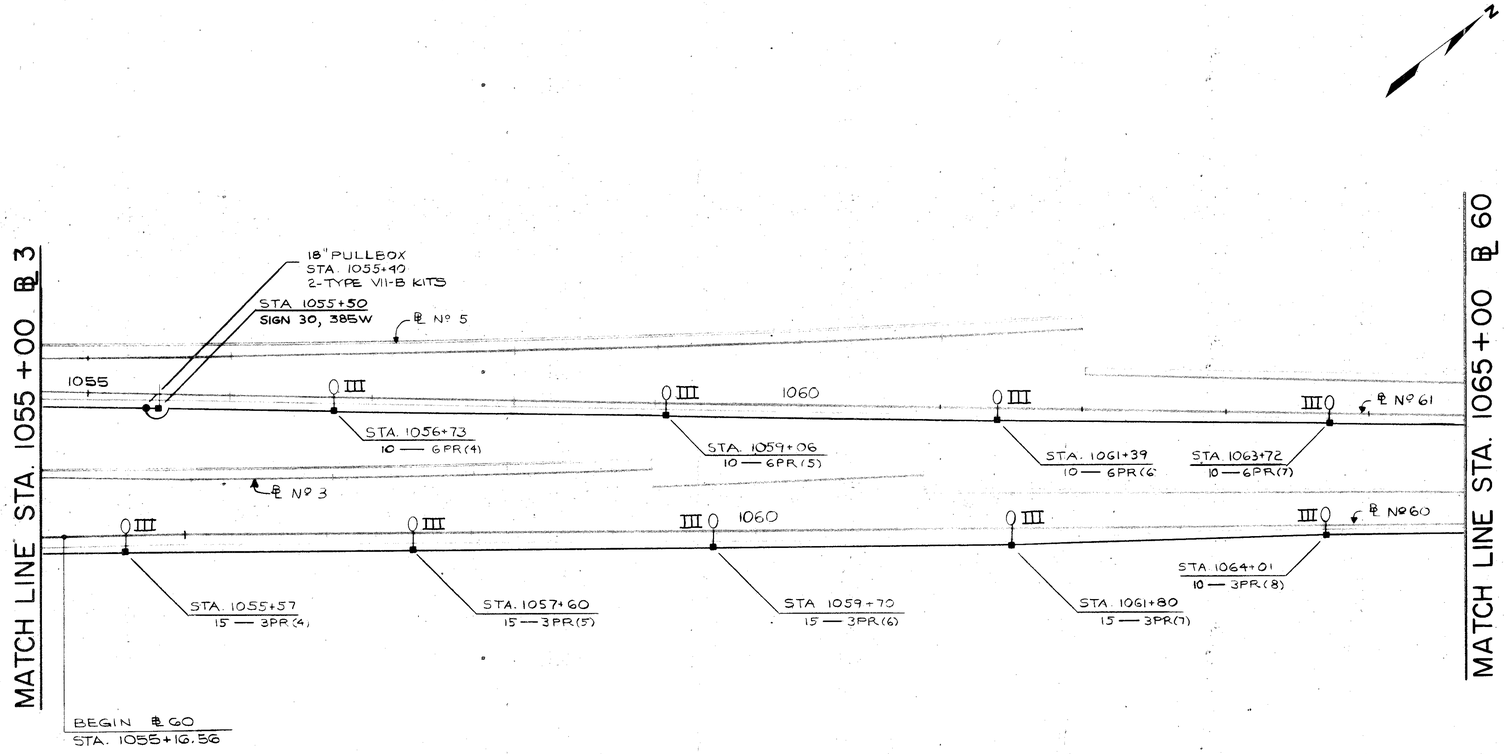
SEE SHT. Nº 244A FOR LIGHTING KEY.

LIGHTING PLAN
STA. 1050+00 ℄ 5 TO STA. 1055+00 ℄ 3

FHWA REGION	STATE	PROJECT	
5	OHIO		

244F
362

COL-30-35.29



NOTES:

SEE SHT. Nº. 239C FOR LIGHTING QUANTITIES.

SEE SHT. Nº. 250A & 250B FOR CIRCUIT MAPS.

ALL WIRE TO BE #4 UNLESS OTHERWISE NOTED.

SEE SHT. Nº. 244A FOR LIGHTING KEY.

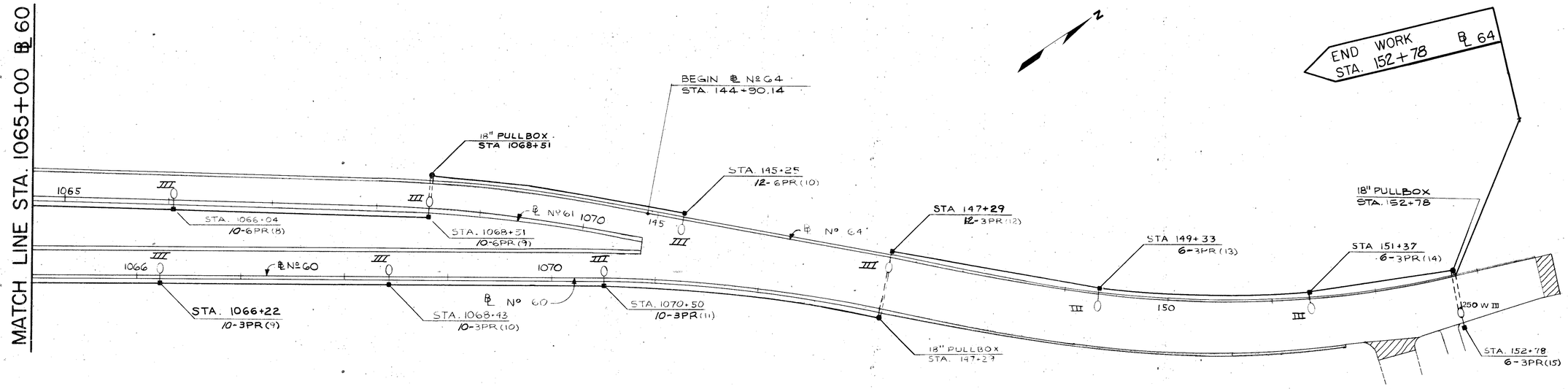
LIGHTING PLAN
STA. 1055+00 ℄ 3 TO STA. 1065+00 ℄ 3

MASTER

FHWA REGION	STATE	PROJECT	
5	OHIO		

2446
362

COL-30-35.29



NOTES:

SEE SHT. Nº 239C FOR LIGHTING QUANTITIES.

SEE SHT. Nº 250B FOR CIRCUIT MAP.

ALL WIRE TO BE #4 UNLESS OTHERWISE NOTED.

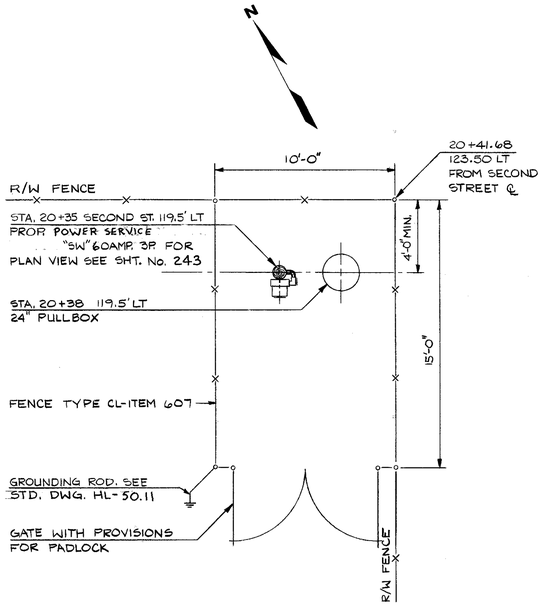
SEE SHT. Nº 244A FOR LIGHTING KEY.

LIGHTING PLAN
STA. 1065+00 ℄ 60 TO END WORK

AA B/P

CALC. BY DATE		OHIO	245
CHKD. BY DATE		FHWA REGION 5	362

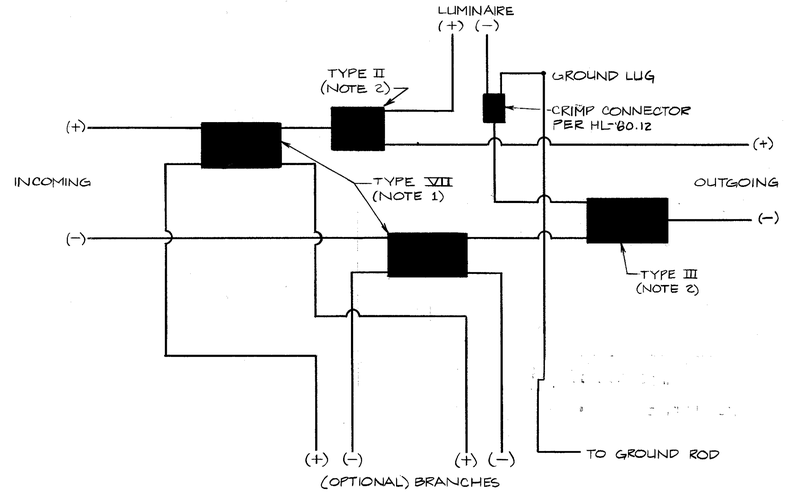
COL-30-35.29



CONTROL CENTER AND
FENCE DETAIL
NO SCALE

NOTES:

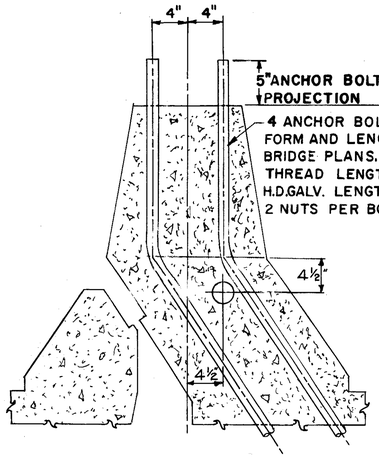
1. TYPE VII C IF TWO BRANCHES, TYPE VII B IF ONE BRANCH OMIT TYPE VII IF NO BRANCHES.
2. PLUG OUTGOING SIDE AT END OF CIRCUIT.
3. ALL CONNECTOR KITS TO BE IN TRANSFORMER BASE OR IN MEDIAN PULLBOX.



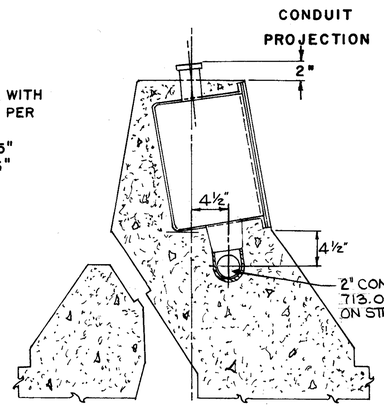
TYPICAL WIRING DIAGRAM FOR
MEDIAN MOUNTED POLES
NO SCALE

LIGHTING DETAILS

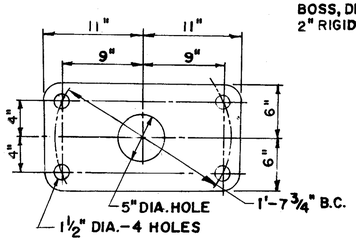
38720



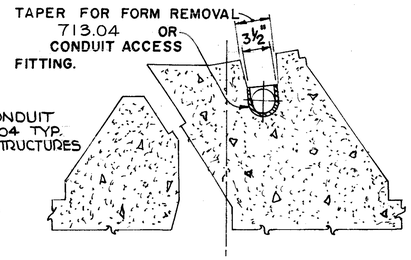
SECTION B-B



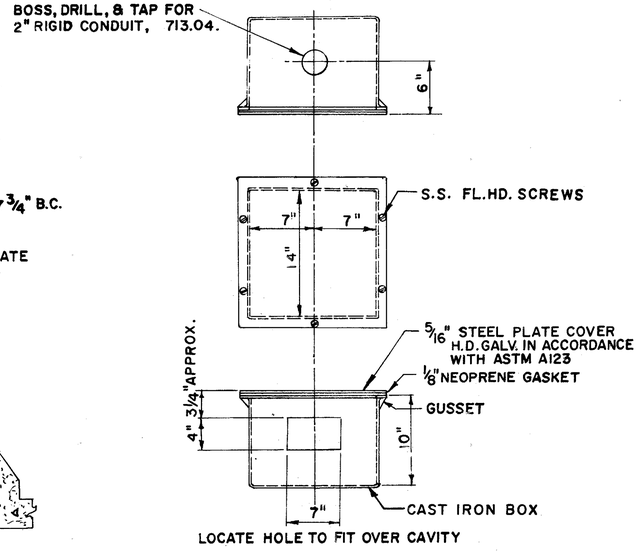
SECTION C-C



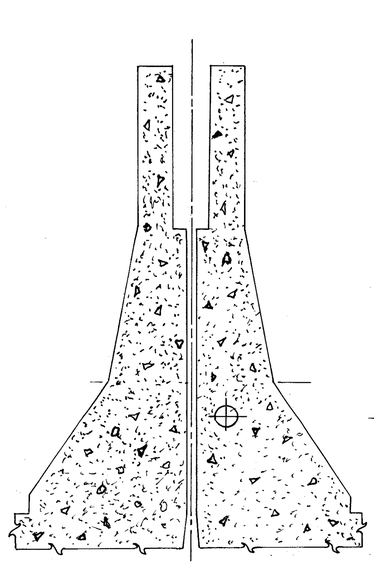
MEDIAN BARRIER LIGHT POLE BASE PLATE



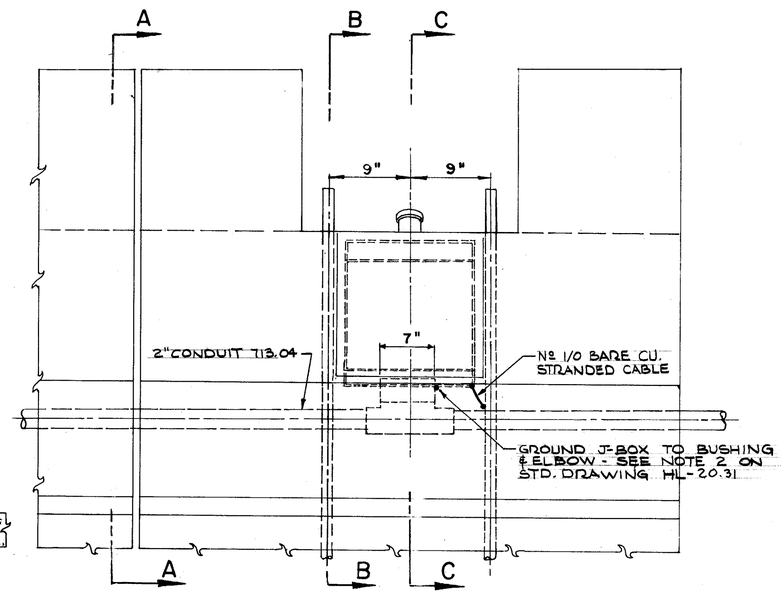
DETAIL OF CONCRETE POUR BELOW JUNCTION BOX, SECTION C-C.



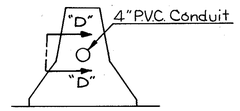
JUNCTION BOX



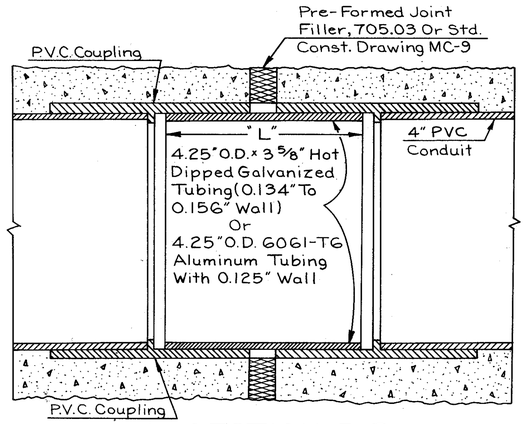
SECTION A-A



STRUCTURE BARRIER POLE MOUNTING DETAILS



ELEVATION MEDIAN BARRIER



SECTION D-D

"L" Is Approx. 3¾" When Joint Is ½"

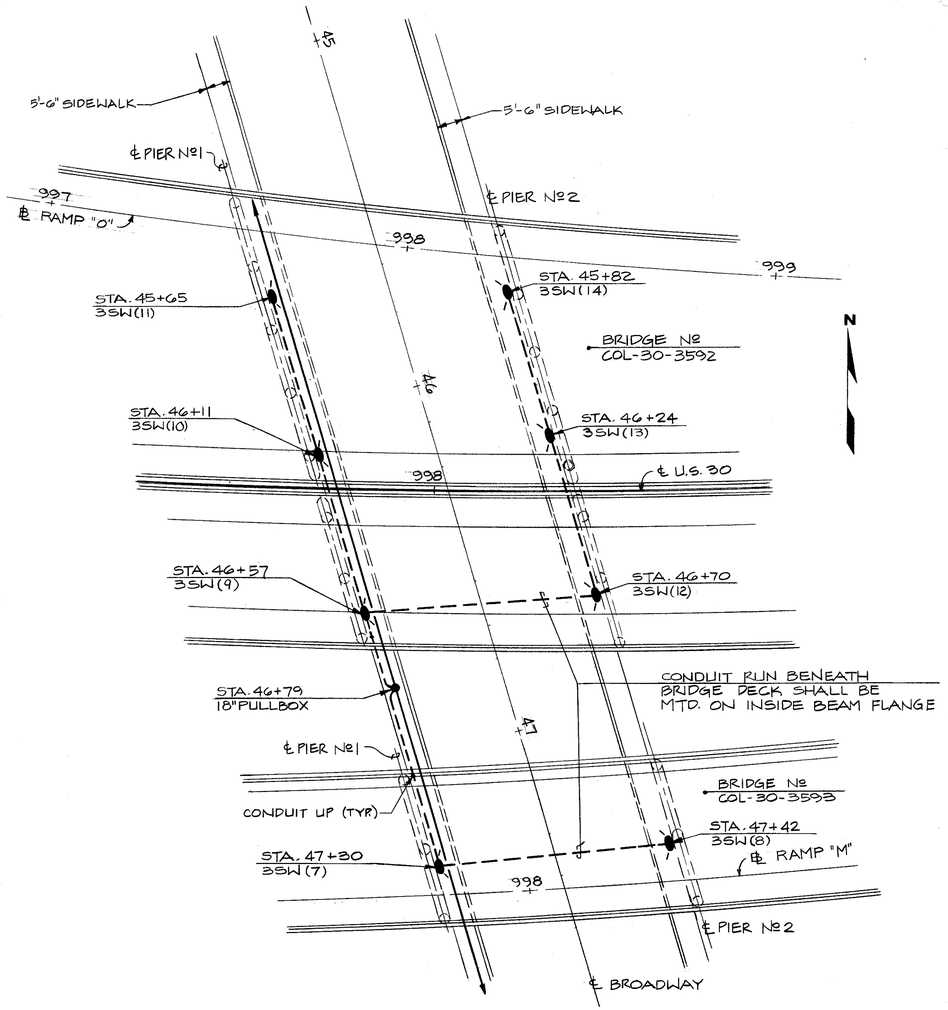
Note: Conduit Couplings As Detailed Herein Shall Be Provided At All Median Barrier Joints Where A Joint Filler Is Used, As Required Or Permitted By Item 622 Or Standard Construction Drawing MC-9

P.V.C. CONDUIT COUPLING DETAIL

P.V.C. CONDUIT COUPLING DETAIL
STRUCTURE MEDIAN MTD. LIGHT POLE

CALC. BY		OHIO	247
CHKD. BY		FHWA REGION 5	362
DATE			

COL-30-35.29



PLAN VIEW
BRIDGE Nº'S. COL-30-3592 & COL-30-3593

SCALE: 1" = 20'

LEGEND

- 100W HIGH PRESSURE SODIUM UNDERPASS LUMINAIRE
- 18" PULLBOX, CONCRETE
- 1½" DUCT CABLE
- 1¼" CONDUIT - SURFACE MOUNTED 713.04

NOTES

1. ALL CABLE TO BE 2#4AWG UNLESS NOTED
2. REFER TO STD. DRAWING HL-20.31 FOR INSTALLATION DETAILS.
3. FOR UNDERPASS LIGHTING QUANTITIES SEE SHT. Nº 236

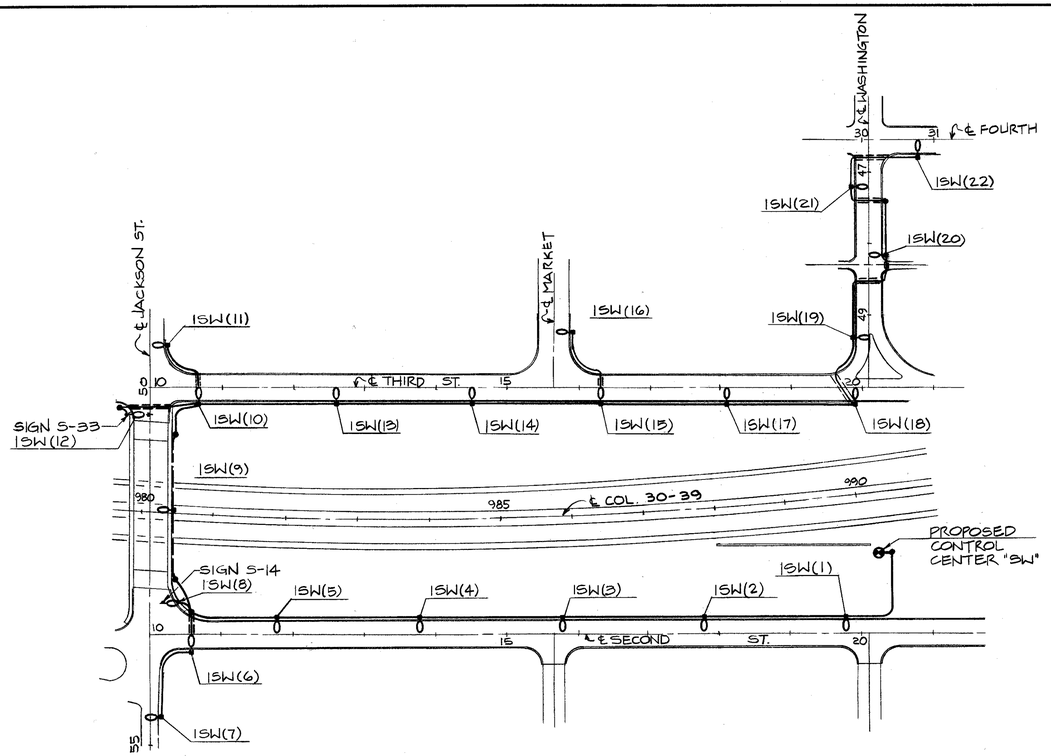
UNDERPASS LIGHTING DETAILS

AA B/P

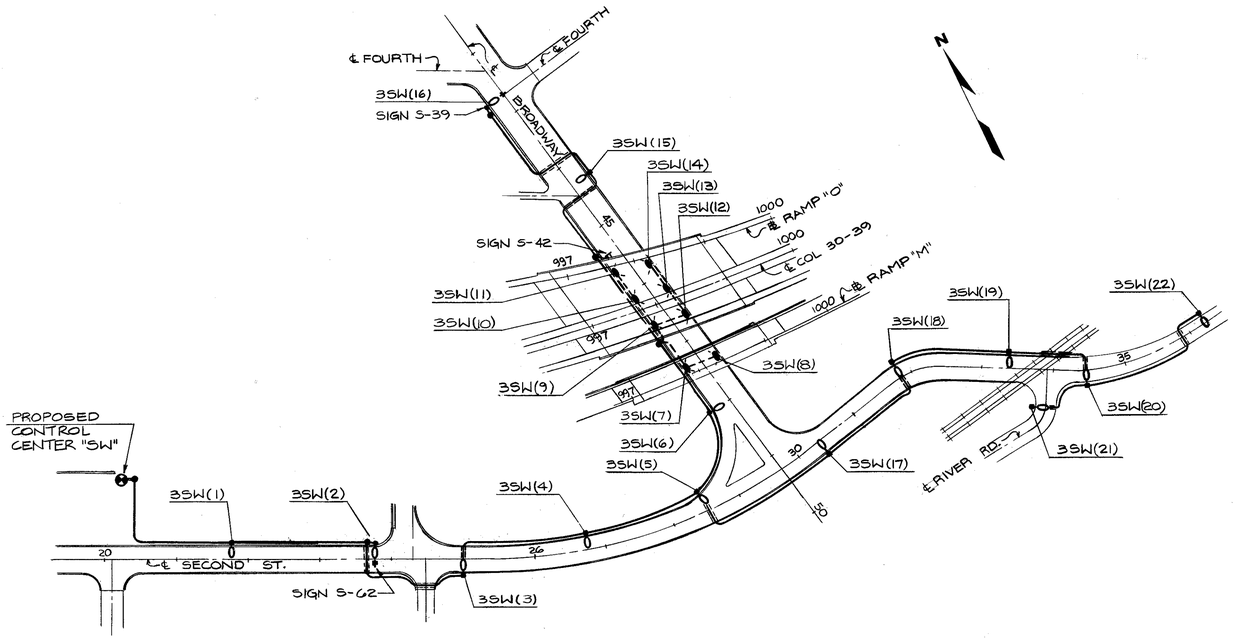
CALC. BY JWZ DATE 3-26-84	OHIO
CHKD. BY JWZ DATE 3-29-84	FHWA REGION 5

248
362

COL-30-35.29



CIRCUIT - 1SW



CIRCUIT - 3SW

CIRCUIT MAPS

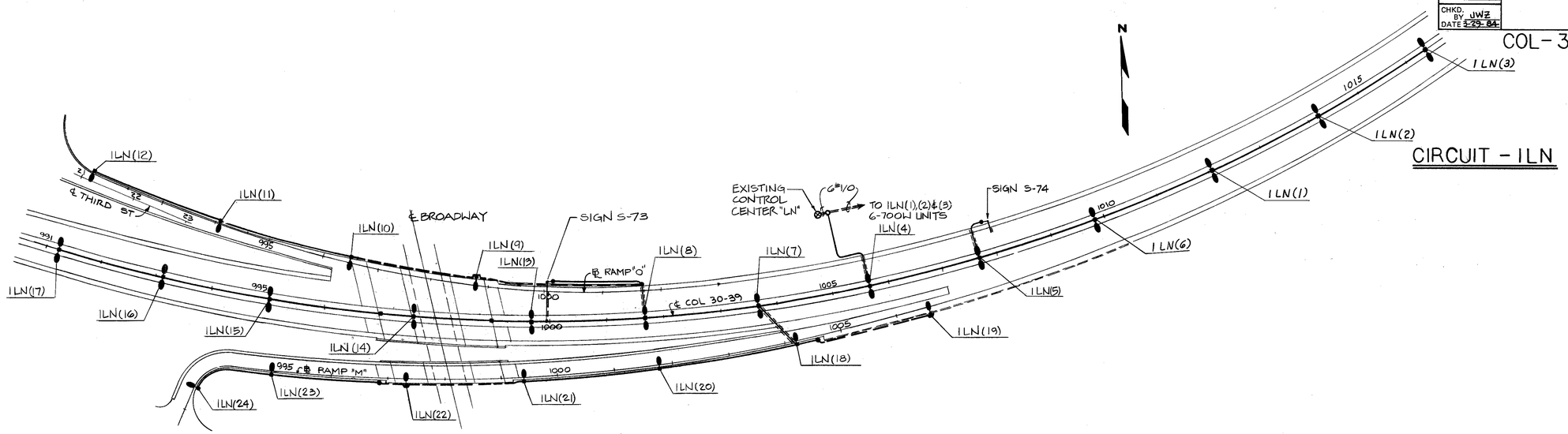
AA B/P

CALC. BY JWZ DATE 3-26-84
CHKD. BY JWZ DATE 3-29-84

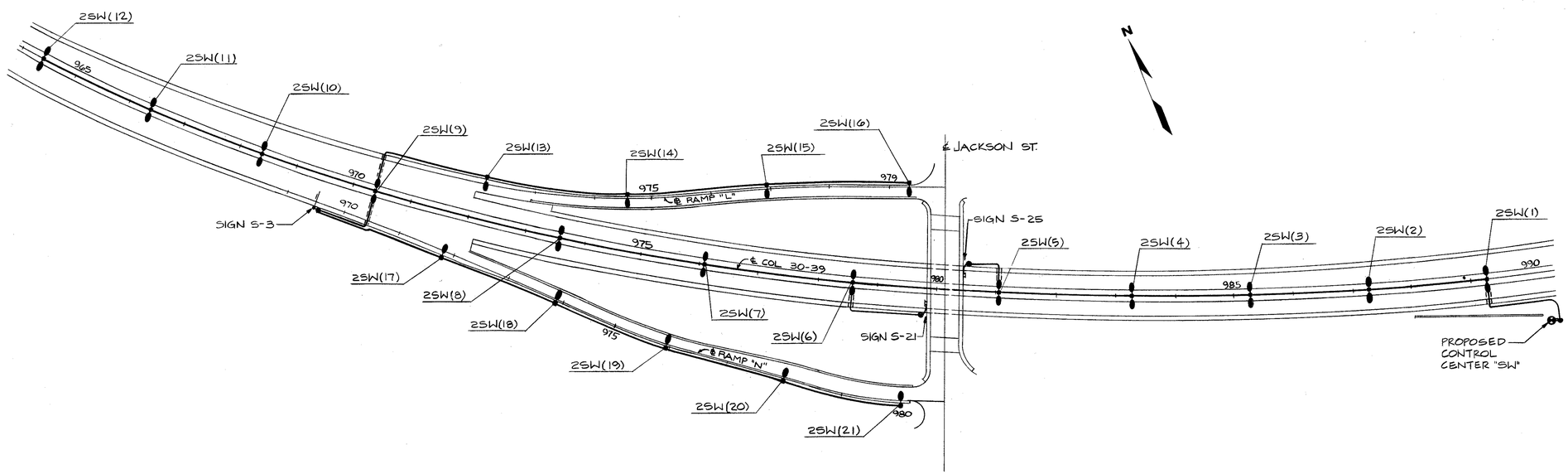
OHIO
FHWA REGION 5

249
362

COL-30-35.29



CIRCUIT - 1LN



CIRCUIT - 2SW

CIRCUIT MAPS

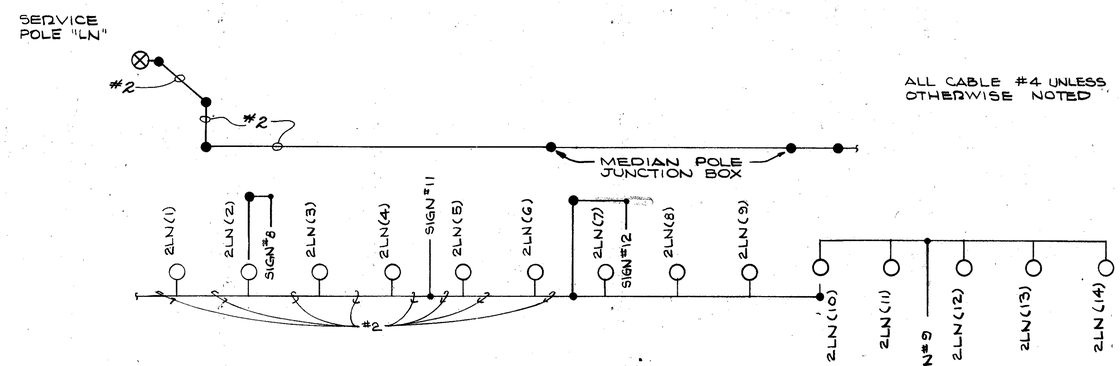
38720

FHWA REGION	STATE	PROJECT	
5	OHIO		

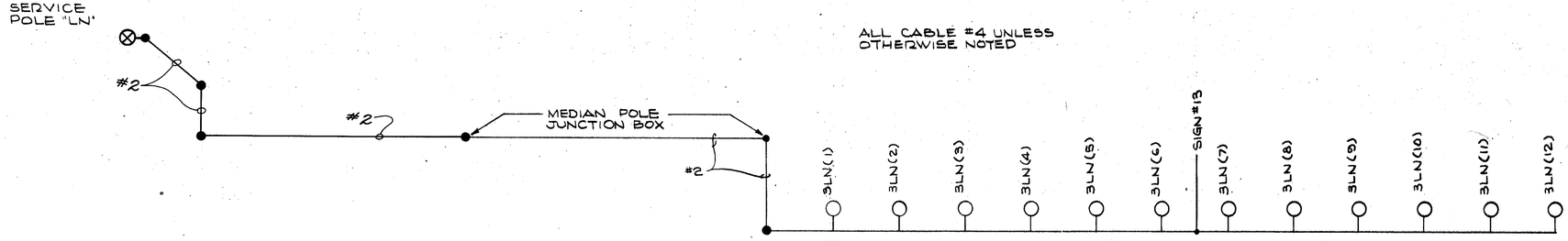
250
362

COL - 30 - 35.29

CIRCUIT 2 LN



CIRCUIT 3 LN



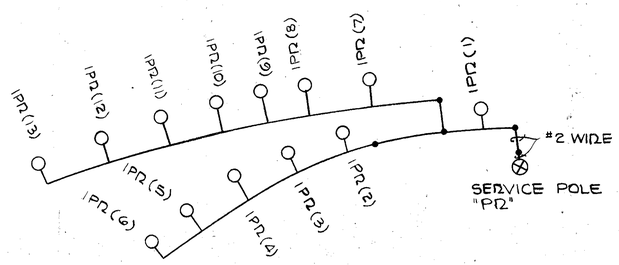
CIRCUIT MAPS

FHWA REGION	STATE	PROJECT	
5	OHIO		

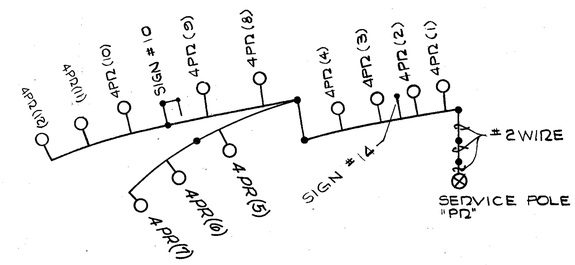
COL. 30 – 35.29

250A
362

CIRCUIT 1PR



CIRCUIT 4PR

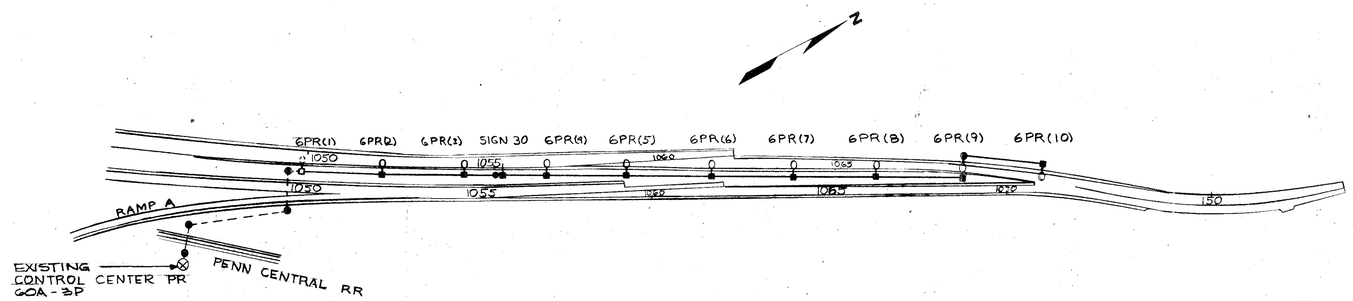


CIRCUIT MAPS

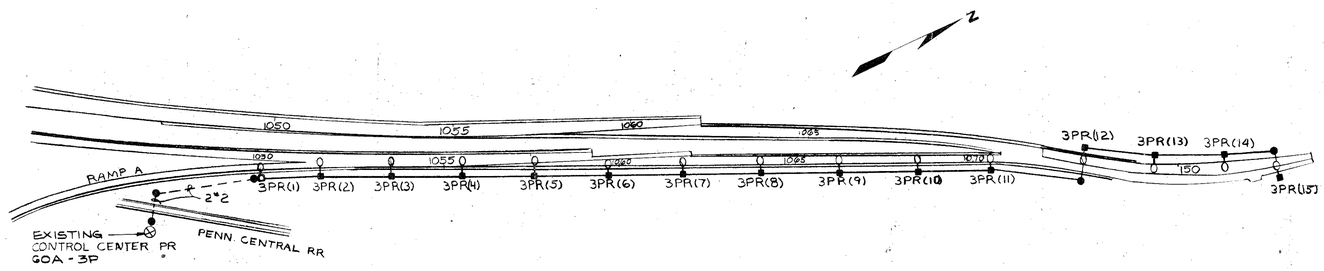
FHWA REGION	STATE	PROJECT	
5	OHIO		

250B/362

COL-30-35.29



CIRCUIT NO. 6PR



CIRCUIT NO 3PR

CIRCUIT MAPS

TRAFFIC CONTROL GENERAL NOTES

FHWA REGION	STATE	PROJECT	
5	OHIO		

251
362

COL-30-35.29

TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS

REFERENCES TO SUPPLEMENTAL SPECIFICATIONS 857, 858, 861, 957, 958 AND 961 ON THE TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS IN THESE PLANS SHALL BE CONSIDERED TO READ AS RESPECTIVE REFERENCES TO ITEMS 630, 631, 633, 730, 731, AND 733.

631 SIGN SERVICE, AS PER PLAN

IN LIEU OF THE REQUIREMENTS OF 631.06, CABLE FOR SIGN SERVICE SHALL BE RATED THE SAME AS THE HIGHWAY LIGHTING DISTRIBUTION AND CIRCUIT CABLE USED ON THIS PROJECT.

631 ENCLOSURE PADLOCKS

DISCONNECT SWITCH ENCLOSURES SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS, AND KEYING IN ACCORDANCE WITH THE FOREGOING SPECIFICATION.

631 BALLAST WIRING ENCLOSURE

BALLAST ENCLOSURES SHALL BE FURNISHED AND INSTALLED ON OVERHEAD SIGN SUPPORTS AS SHOWN ON TC-32.10 OR DETAILED IN THE PLANS. THE ENCLOSURE SHALL BE MOUNTED ON BRACKETS WHICH ARE A PART OF NEW OVERHEAD SUPPORTS OR SEPARATELY FURNISHED FOR EXISTING SUPPORTS OR OVERPASS STRUCTURES.

ENCLOSURES SHALL BE WEATHERPROOF NEMA TYPE 4 IN ACCORDANCE WITH PLAN DETAILS, FABRICATED OF 0.06 INCH STEEL GALVANIZED IN ACCORDANCE WITH 711.02. THE FRONT COVER SHALL BE REMOVABLE AND BEAR A WARNING SIGN CONFORMING TO 713.20, PARAGRAPH 8D. CONDUIT FITTINGS AND ATTACHMENT HARDWARE SHALL BE FURNISHED WITH THE ENCLOSURE. ENCLOSURES SHALL CONTAIN A STEEL COMPLYING WITH 713.20, PARAGRAPH 8E FOR INSTALLING TERMINAL BLOCKS AND BUSBARS, RATED AT 600 VOLTS AND PROVIDED WITH MARKER STRIPS AND CAPABLE OF TERMINATING THE WIRE GAUGE USED. BALLASTS SHALL BE ARRANGED IN THE ENCLOSURE IN THE SAME RELATIVE POSITION AS THEIR ASSOCIATED LUMINAIRE ON THE SIGN SUPPORT STRUCTURE.

ENCLOSURES SHALL BE OF TWO SIZES: TYPE A FOR SPAN TYPE SUPPORTS AS SHOWN ON TC-32.10 AND TYPE B FOR SINGLE POLE AND OVERPASS STRUCTURES AS DETAILED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING TABLE:

	TYPE A	TYPE B
SIZE (NOMINAL) INCHES	42 x 12 x 10	18 x 12 x10
BARRIER TERMINAL BLOCK: NO. UNITS, NO. TERMINALS (MIN.)	2, 11	2, 4
SOLID INSULATED BUSBAR: NO. UNITS NO. TERMINALS (MIN)	2, 11	2, 5
SOLID INSULATED BUSBAR: NO. UNITS NO. TERMINALS (MIN)	1, 11	1, 5

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE FOR EACH ENCLOSURE, FURNISHED, IN PLACE, COMPLETE AND READY FOR SERVICE.

631 BALLAST ENCLOSURE, BY TYPE

REMOVAL OF SIGN LIGHTING EQUIPMENT

THIS ITEM OF WORK SHALL CONSIST OF REMOVING THE EXISTING LUMINAIRES, DISCONNECT SWITCHES AND ENCLOSURE AND BALLASTS TAKING CARE NOT TO DAMAGE ANY OF THE EQUIPMENT. ALL THE EQUIPMENT REMOVED SHALL BE STORED ON THE PROJECT FOR REMOVAL BY THE CITY OF EAST LIVERPOOL.

BASIS FOR PAYMENT SHALL BE AT THE CONTRACT BID PRICE PER EACH AS FOLLOWS:
ITEM 631-REMOVAL OF LUMINAIR AND STORAGE
ITEM 631-REMOVAL OF DISCONNECT SWITCH AND ENCLOSURE AND STORAGE
ITEM 631-REMOVAL OF BALLAST AND STORAGE

SIGNS REWIRED

THIS WORK SHALL CONSIST OF THE REPLACEMENT OF THE ELECTRICAL SIGN LIGHTING SYSTEM FOR EACH ILLUMINATED SIGN. THE WORK SHALL INCLUDE INSTALLATION OF LIGHT FIXTURES AND REMOTE BALLASTS, AND FURNISHING AND INSTALLING ALL RIGID AND FLEXIBLE CONDUIT, CONDULETS, JUNCTION BOXES, CABLE, FASTENER HARDWARE, AND ALL OTHER ITEMS REQUIRED TO ENERGIZE AND REPAIR THE EXISTING SIGN LIGHTING SYSTEM.

THE COST OF FURNISHING AND INSTALLING CABLE, CABLE GRIPS, CABLE SPLICE UNITS, AND NECESSARY FASTNERS FROM THE DISCONNECT SWITCH TO THE SIGNS (OR BETWEEN SIGNS) WITHIN SIGN SUPPORT MEMBERS AND FROM PULLBOX TO DISCONNECT SWITCH SHALL BE INCLUDED IN THIS ITEM AF WORK. ALSO INCLUDED IS THE REMOVAL OF EXISTING SIGN LIGHTING ITEMS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS REQUIRED FOR A COMPLETE AND ACCEPTED ITEM OF WORK. FURNISHING OF LIGHT FIXTURES DISCONNECT SWITCH AND ENCLOSURE AND BALLASTS SHALL BE PAID FOR UNDER A SEPARATE PAY ITEM.

BASIS OF PAYMENT SHALL BE AS FOLLOWS:
ITEM 631-SIGNS REWIRED AT THE CONTRACT BID PRICE PER EACH.

GENERAL SUMMARY

CALC. BY JWZ DATE 5-3-84
CHK'D BY JB DATE 5-10-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

ITEM	SHEET NUMBER 254	255	256	257	ITEM EXT.	TOTAL ITEM	TOTAL QUAN.	TOTAL UNIT	DESCRIPTION
									TRAFFIC CONTROL
				33	10300	620	33	EACH	DELINEATORS, TYPE C, FLEXIBLE, POST MOUNTED
				16	15300	620	16	EACH	DELINEATORS, TYPE D, FLEXIBLE, POST MOUNTED
				1	11000	620	1	EACH	DELINEATORS, TYPE C, BRACKET MOUNTED
				1	16000	620	1	EACH	DELINEATORS, TYPE D, BRACKET MOUNTED
				6.96	00100	621	6.96	MILES	EDGE LINES
				4.51	10008	621	4.51	MILES	LANE LINES,
				2487	30100	621	2487	LIN. FT.	CHANNELIZING LINES
				1.03	20100	621	1.03	MILES	CENTER LINES
				680	60100	621	680	LIN. FT.	TRANSVERSE LINES
				232	40100	621	232	LIN. FT.	STOP LINES
				1032	50100	621	1032	LIN. FT.	CROSSWALK LINES
				18	76500	621	18	EACH	LANE ARROWS
				10	80000	621	10	EACH	WORD ON PAVEMENT, 72 INCH
				2	90000	621	2	EACH	RAILROAD SYMBOL MARKINGS
	25				94000	631	25	EACH	REMOVAL OF LUMINAIRE AND STORAGE
	25				94400	631	25	EACH	REMOVAL OF BALLAST AND STORAGE
	9				94300	631	9	EACH	REMOVAL OF DISCONNECT SWITCH AND ENCLOSURE AND STORAGE
	14				89100	631	14	EACH	MERCURY VAPOR LUMINAIRE, TYPE 31.21 WITH 100 WATT LAMP
	34				89200	631	34	EACH	MERCURY VAPOR LUMINAIRE, TYPE 31.21, WITH 175 WATT LAMP
	2				89300	631	2	EACH	MERCURY VAPOR LUMINAIRE, TYPE 31.21, WITH 250 WATT LAMP
	14				87102	631	14	EACH	BALLAST TYPE CMRI-100-480, INTEGRAL
	34				87202	631	34	EACH	BALLAST TYPE CMRI-175-480, INTEGRAL
	2				87302	631	2	EACH	BALLAST, TYPE CMRI-250-480, INTEGRAL
	21				85100	631	21	EACH	DISCONNECT SWITCH WITH ENCLOSURE, TYPE X
	4				85500	631	4	EACH	SWITCH ENCLOSURE MOUNTING BRACKET ASSEMBLY
	13				84300	631	13	EACH	SIGNS WIRED
	4				84400	631	4	EACH	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED
	12				97700	631	12	EACH	SIGNS REWIRED
	12				84001	631	12	EACH	SIGN SERVICE, AS PER PLAN
	18				70002	631	18	EACH	BALLAST WIRING ENCLOSURE, TYPE A
	32				70100	631	32	EACH	BALLAST WIRING ENCLOSURE, TYPE B
	6				71000	631	6	EACH	BALLAST WIRING ENCLOSURE MOUNTING BRACKET
	32.77	1.64			00000	630	34.41	CU.YD.	CONCRETE FOR ANCHOR BASE FOUNDATION
		680	127		80102	630	807	SQ.FT.	SIGNS, FLAT SHEET, TYPE G
	1409	60			80204	630	1469	SQ.FT.	SIGNS, EXTRUSHEET, TYPE G
	1				20500	630	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN Nº 5 WITH 22' ARM.
	2				20600	630	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN Nº 6 WITH 26' ARM.
	1				36500	630	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-7.05, 66'-8 3/16" SPAN
		1			10300	630	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.20, DESIGN Nº 3 WITH 32' ARM.
	2				77000	630	2	EACH	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT, TYPE TC-18.24
	1				77600	630	1	EACH	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT, TYPE TC-18.26, DESIGN Nº 6
	1				77700	630	1	EACH	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT, TYPE TC-18.26, DESIGN Nº 7

GENERAL TRAFFIC CONTROL SUMMARY

GENERAL SUMMARY

CALC. BY JWZ DATE 5-3-84
CHK'D BY JB DATE 5-10-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

| ITEM | SHEET NUMBER | | |

OVERHEAD SIGN SUB – SUMMARY

CALC. BY JWZ DATE 11-2-83
CHK'D BY JB DATE 11-16-83

FHWA REGION	STATE	PROJECT	
5	OHIO		

COL - 30 - 35.29

254/362

REFERENCE Nº	SHEET Nº	LOCATION	STATION	CODE	SIGN SIZE (IN FEET)	630 NET SIGN AREA (INCLUDING GLARE SHIELD) SQ. FT.	630 SIGN EXTRUSHEET TYPE G SQ. FT.	630 SIGNS OVERLAY SQ. FT.	631 LUMINAIRES MERCURY VAPOR 100W EACH	175W EACH	250W EACH	BALLAST, INTEGRAL CMRI-100-480 EACH	CMRI-175-480 EACH	CMRI-250-480 EACH	REMOVAL OF LUMINAIRE AND STORAGE EACH	REMOVAL OF BALLAST AND STORAGE EACH	REMOVAL OF DISCONNECT SWITCH ENCLOSURES AND STORAGE EACH	SWITCH ENCLOSURE BRACKET ASSEMBLY EACH	DISCONNECT SWITCH WITH ENCL. TYPE X EACH	BALLAST WIRING ENCL. – TYPE A EACH	BALLAST WIRING ENCL. – TYPE B EACH	BALLAST WIRING ENCL. MTG. BRKTS. EACH	625 GROUND ROD EACH	SIGNS WIRED EACH	SIGNS WIRED OVERPASS STR. MTD. EACH	SIGNS, REWIRED EACH	SIGN SERVICE EACH	630 CONCRETE ANCHOR BASE FOUNDATION CUYD	630 TYPE OF OVERHEAD SIGN SUPPORT	202 REMOVE OVERHEAD MOUNTED SIGNS EACH	202 REMOVE OVERHEAD SIGN SUPPORT EACH	TYPE OF FUNDS
S-1	260	℄ Nº 1	957+80	a	13'x7.5'	104.0	97.5			2			2					1		2		1	1		1	2.92	OVERHEAD SIGN SUPPORT TYPE TC-12.30 DESIGN Nº 5 WITH 22' ARM			
S-3	260	RAMP "N"	969+50	a	15'x7.5'	120.0	112.5			2			2					1		2		1	1		1	2.92	OVERHEAD SIGN SUPPORT TYPE TC-12.30 DESIGN Nº6 WITH 26' ARM			
S-14	261	JACKSON ST.	53+00	a	10'x5.5'	60.0	55.0		1			1							1			1	1		1	2.92	COMBINATION OVERHEAD SIGN SUPPORT TYPE TC-12.30 DESIGN Nº4 WITH 20' ARM			
S-21	261	STR. ℄ Nº 1	979+83	a	15'x8.5'	135.0	177.5			2			2				1	1		2	2	1		1	1	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT TYPE TC-18.24			
S-25	261	STR. ℄ Nº 1	980+46	a	11'x10'	115.5	110.0			1			1				1	1		1	1	1		1	1	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT TYPE TC-18.24			
S-33	261	JACKSON ST	50+38	a	10'x5.5'	60.0	55.0		1			1							1			1	1		1	2.92	COMBINATION OVERHEAD SIGN SUPPORT TYPE TC-12.30 DESIGN Nº 4 WITH 20' ARM			
				b	10'x5.5'	60.0	55.0		1			1									1										
S-39	262	BROADWAY	42+70	a	10'x5.5'	60.0	55.0		1			1							1			1	1		1	2.92	COMBINATION OVERHEAD SIGN SUPPORT TYPE TC-12.30 DESIGN Nº 4 WITH 20' ARM			
				b	10'x5.5'	60.0	55.0		1			1									1										
S-42	262	STR. BROADWAY	45+42	a	10'x5.5'	60.0	55.0		1			1						1	1		1	1	1		1		OVERPASS STRUCTURE MOUNTED SIGN SUPPORT TYPE TC-18.26 DESIGN Nº6 17°-03'-22" SKEW			
S-62	262	SECOND ST.	23+77	a	9'x7'	67.5	63.0		1			1							1			1	1		1	2.92	COMBINATION OVERHEAD SIGN SUPPORT TYPE TC-12.30 DESIGN Nº 4 WITH 20' ARM			
				b	10'x5.5'	60.0	55.0		1			1									1										
S-73	263	℄ Nº 1	959+93	a	13'x4.5'	65.0	58.5		2			2							1	2			1		1	12.33	OVERHEAD SIGN SUPPORT TYPE TC-7.65, 66'-8 3/16" SPAN			
				b	15'x7.5'	120.0	112.5			2			2																		
				c	15'x5.5'	90.0	82.5		2			2							2												
S-74	263	℄ Nº 1	1008+00	a	15'x7.5'	120.0	112.5			2			2					1		2		1	1		1	2.92	OVERHEAD SIGN SUPPORT TYPE TC-12.30 DESIGN Nº 6 WITH 26' ARM			
S-2	260	℄ Nº 1	963+00																								EXISTING SIGN SUPPORT – NO WORK REQUIRED			
S-75	259	℄ Nº 1	945+30	a	13'x7.5'	104.0	97.5			2			2				1	1		2	2	1		1	1	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT TYPE TC-18.26 DESIGN Nº7 32°29'-29" SKEW			
	244A	℄ Nº 2	1014+90		15'x9.5'					2			2		2	2	1		1	2					1		EXISTING OVERHEAD SIGN SUPPORT			
					16'x9.5'					2			2		2	2				2					1		EXISTING OVERHEAD SIGN SUPPORT			
	244A	℄ Nº 4	1021+00		13'x 8'					2			2		2	2	1		1		2				1		EXISTING OVERHEAD SIGN SUPPORT			
	244B	℄ Nº 4	1026+00		23'x7.5'					3			3		3	3	1		1		3				1		EXISTING OVERHEAD SIGN SUPPORT			
	244B	℄ Nº 2	1030+74		16' x 9.5'					2			2		2	2	1		1	2					1		EXISTING OVERHEAD SIGN SUPPORT			
					17' x 9.5'					2			2		2	2				2					1		EXISTING OVERHEAD SIGN SUPPORT			
	244B	℄ Nº 4	1032+00		12'x6'				2			2			2	2	1		1		2				1		EXISTING OVERHEAD SIGN SUPPORT			
	244C	℄ Nº 4	1038+55		13'x8'					2			2		2	2	1		1		2				1		EXISTING OVERHEAD SIGN SUPPORT			
	244C	℄ Nº 5	1038+37		13'x8'					2			2		2	2	1		1		2				1		EXISTING OVERHEAD SIGN SUPPORT			
	244D	℄ Nº 5	1044+00		17'x 7'					2			2		2	2	1		1	2					1		EXISTING OVERHEAD SIGN SUPPORT			
					16' x 11.5'						2			2	2	2				2					1		EXISTING OVERHEAD SIGN SUPPORT			
	244F	℄ Nº 5	1055+50		15'x9.5'					2			2		2	2	1		1		2				1		EXISTING OVERHEAD SIGN SUPPORT			
TOTAL STATE							1409	0	0	14	34	2		14	34	2		25	25	9	4	21	18	32	6	12	13	4	12	12	32.77			
TOTAL 100% STATE FUNDS																																
TOTAL CITY FUNDS																																
TOTAL CITY STATE AND FEDERAL FUNDS																																

OVERHEAD SIGN SUB – SUMMARY

CALC. BY JWZ DATE 11-3-83
CHK'D BY JB DATE 11-10-83

FHWA REGION	STATE	PROJECT	
5	OHIO		

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SUB-SUMMARY : REGULATORY, WARNING AND GUIDE SIGNS

COL - 30 - 35.29

REFERENCE Nº	SHEET Nº	LOCATION	STATION	CODE NUMBER	SIGN SIZE	NET SIGN AREA SQ. FT.	DESCRIPTION 630: SIGN, FLAT SHEET, TYPE G	OVERHEAD SUPPORT TC-16.20 DES.3 32ARM	GND.MTD.SUPPORT Nº. 2 POST	GND.MTD.SUPPORT Nº. 3 POST	GND.MTD.SUPPORT Nº. 4 POST	SIGN, EXTRUSHEET, TYPE G	GND.MTD.SUPPORT STEEL BEAM S4 X 7.7	CONCRETE FOR ANCHOR BASE FOUNDATIONS	SIGN SUPPORT ASSEMBLY POLE MOUNTED	CONC. FOR EMBEDDED FOUNDATIONS	BREAKAWAY BEAM CONNECTION	SIGN BACKING ASSEMBLY	SIGN SUPPORT ASSEMBLY BRIDGE MOUNTED	ONE WAY SUPPORTS NO. 4 POST
							SQ.FT.	EACH	LIN.FT.	LIN.FT.	LIN.FT.	SQ.FT.	LIN.FT.	CU. YD	EACH	CU.YD.	EACH	EACH	EACH	LIN.FT.
S-4	260	RAMP "N"	972+25	W-97-48	48"×60"	20	20				33									
S-5	260	RAMP "N"	974+00	W-45-36	36"×36"	9	9				15									
S-84	260	RAMP "N"	972+67	GF	72"×60"	30						30	28			0.54	2			
		TOTAL PLAN SHEET Nº. 260				59	29	0	0	0	48	30	28	0	0	0.54	2	0	0	0
S-6	261	RAMP "N"	975+80	D-4E-48	48"×18"	6	6		25											
S-7		RAMP "N"	978+18	R-3IA-36	36"×30"	7.5	7.5				13.5									
				R-4IA-36	36"×24"	6	6													
S-8		W. FIRST ST.	49+56	R-1-30	30"×30"	6.25	6.25			13										
S-9		RAMP "N"	980+22	R-1-48	48"×48"	16	16				30									1
				R-4IB-36	36"×36"	9	9													
				R-43L-36	36"×12"	3	3													
				R-43R-36	36"×12"	3	3													
S-10		SECOND ST.	10+50	D-8G-8	48"×8"	2.6	2.6		12						1			1		
S-11		JACKSON ST.	53+00	M-39-24	24"×12"	2	2													
				M-1-24	24"×24"	4	4													
				M-24-21	21"×15"	2.19	2.19													
				M-39-24	24"×12"	2	2													
				M-2-24	24"×24"	4	4													
				M-24-21	21"×15"	2.19	2.19													
S-12		MARKET ST.	53+81	R-1-30	30"×30"	6.25	6.25			13										
S-13a		SECOND ST.	13+00	M-40-24	24"×12"	2	2				15									
				M-1-24	24"×24"	4	4													
				M-19-21	21"×15"	2.19	2.19													
S-13b		SECOND ST.	13+00	M-40-24	24"×12"	2	2				15									
				M-2-24	24"×24"	4	4													
				M-19-21	21"×15"	2.19	2.19													
S-15		SECOND ST.	10+35	R-1-48	48"×48"	16	16				35									
				R-26B-30	30"×30"	7.5	7.5								1			1		
S-16		JACKSON ST.	51+70	M-40-24	24"×12"	2	2													
				M-1-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
				M-40-24	24"×12"	2	2													
				M-2-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
S-17		JACKSON ST.	52+60	R-31Q-30	30"×30"	7.5	7.5			13.5										
S-18		RAMP "N"	980+22	R-1-48	48"×48"	16	16				32									1
				R-4IB-36	36"×36"	9	9													
				R-43R-36	36"×12"	3	3													
				R-43L-36	36"×12"	3	3													
S-19		SECOND ST.	11+85	R-26B-30	30"×30"	7.5	7.5			13.5										
S-20		JACKSON ST.	53+10	R-31Q-30	30"×30"	7.5	7.5			13.5										
S-22		RAMP "N"	978+18	R-3IA-36	36"×30"	7.5	7.5			27										
				R-4IA-36	36"×24"	6	6													
S-23		℄ Nº1	976+00	W-49R-48	48"×48"	16	16				31									
S-24		JACKSON ST.	51+70	M-40-24	24"×12"	2	2											1	1	
				M-1-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
				M-40-24	24"×12"	2	2													
				M-2-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
S-26		THIRD ST.	12+60	R-28A-30	30"×36"	7.5	7.5	1						1.64						
				R-27A-30	30"×36"	7.5	7.5													
S-27		JACKSON ST.	50+38	M-40-24	24"×12"	2	2								1			1		
				M-1-24	24"×24"	4	4													
				M-26-21	21"×15"	2.19	2.19													
				M-40-24	24"×12"	2	2													
				M-2-24	24"×24"	4	4													
				M-26-21	21"×15"	2.19	2.19													
S-28		JACKSON ST.	50+65	R-31Q-30	30"×30"	7.5	7.5			13.5										
S-29		THIRD ST.	10+48	R-1-48	48"×48"	16	16		29											1
				R-4IB-36	36"×36"	9	9													
				R-43L-36	36"×12"	3	3													
				R-43R-36	36"×12"	3	3													
S-30		THIRD ST.	15+56	R-43R-48	48"×18"	6	6		24											
S-31		THIRD ST.	16+25	R-4IB-30	30"×30"	6.25	6.25			13										
S-32		THIRD ST.	16+25	R-4IB-30	30"×30"	6.25	6.25				14									
				R-43R-36	36"×12"	3	3													
S-34		MARKET ST.	49+57	R-1-30	30"×30"	6.25	6.25			13										
S-35a		THIRD ST.	13+60	M-40-24	24"×12"	2	2				15									
				M-1-24	24"×24"	4	4													
				M-26-21	21"×15"	2.19	2.19													
S-35b		THIRD ST.	13+60	M-40-24	24"×12"	2	2				15									
				M-2-24	24"×24"	4	4													
				M-26-21	21"×15"	2.19	2.19													
S-85	↓	JACKSON ST.	50+45	R-31Q-30	30"×30"	7.5	7.5			13.5										

REFERENCE Nº	SHEET Nº	LOCATION	STATION	CODE NUMBER	SIGN SIZE	NET SIGN AREA SQ. FT.	DESCRIPTION 630: SIGN, FLAT SHEET, TYPE G	OVERHEAD SUPPORT TC-16.20 DES.3 32ARM	GND.MTD.SUPPORT Nº. 2 POST	GND.MTD.SUPPORT Nº. 3 POST	GND.MTD.SUPPORT Nº. 4 POST	SIGN, EXTRUSHEET, TYPE G	GND.MTD.SUPPORT STEEL BEAM S4 X 7.7	CONCRETE FOR ANCHOR BASE FOUNDATIONS	SIGN SUPPORT ASSEMBLY POLE MOUNTED	CONC. FOR EMBEDDED FOUNDATIONS	BREAKAWAY BEAM CONNECTION	SIGN BACKING ASSEMBLY	SIGN SUPPORT ASSEMBLY BRIDGE MOUNTED	ONE WAY SUPPORTS NO. 4 POST
							SQ.FT.	EACH	LIN.FT.	LIN.FT.	LIN.FT.	SQ.FT.	LIN.FT.	CU. YD	EACH	CU.YD.	EACH	EACH	EACH	LIN.FT.
S-36	261	THIRD ST.	10+48	R-1-48	48"×48"	16	16													
				R-4IB-36	36"×36"	9	9													
				R-32R-30	30"×30"	6.25	6.25													
				R-43L-36	36"×12"	3	3													
				R-43R-36	36"×12"	3	3													
S-37a	261	JACKSON ST.	45+00	M-17-24	24"×12"	2	2				15									
				M-1-24	24"×24"	4	4													
				M-29-21	21"×15"	2.19	2.19													
				M-17-24	24"×12"	2	2				15									
				M-2-24	24"×24"	4	4													
				M-29-21	21"×15"	2.19	2.19													
		TOTAL PLAN SHEET Nº 261				142.76	142.76	1	90	46.5	245.5	0	14.5	1.64	3	0.54	2	4	1	4
S-38a	262	FOURTH ST.	29+74	M-40-24	24"×12"	2	2				15									
				M-1-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
S-38b		FOURTH ST.	29+74	M-40-24	24"×12"	2	2				15									
				M-2-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
S-40		WASHINGTON ST.	49+29	D-8G-8	48"×8"	2.6	2.6		23											
S-41		WASHINGTON ST.	46+17	R-1-30	30"×30"	6.25	6.25			13										
S-43		WASHINGTON ST.	46+95	R-1-30	30"×30"	6.25	6.25				15.5									
S-44		UNION ST.	46+88	R-1-30	30"×30"	6.25	6.25			13										
S-45		FOURTH ST.	34+87	R-1-30	30"×30"	6.25	6.25			13										
S-46		BROADWAY	42+20	D-8G-8	48"×8"	2.6	2.6		23											
S-47		BROADWAY	42+38	D-14-VAR	FURNISHED AND INSTALLED BY LOCAL AUTHORITIES.															
S-48		FOURTH ST.	34+22	D-14-VAR	FURNISHED AND INSTALLED BY LOCAL AUTHORITIES															
S-49		FOURTH ST.	35+80	R-1-30	30"×30"	6.25	6.25			13										
S-50		BROADWAY	45+30	R-26B-30	30"×30"	6.25	6.25			13										
S-51		RAMP "O"	995+70	GF	72"×60"	30										30	28			0.54
S-52		RAMP "O"	995+25	W-97-48	48"×60"	20	20				30									2
S-53		℄ Nº1	993+45	W-60C-48	48"×48"	16	16				33.5									
S-54		RAMP "O"	993+00	D-4B-48	48"×18"	6	6		23											
				R-4IA-36	36"×24"	6	6													
S-55		RAMP "O"	993+00	R-4IA-36	36"×24"	6	6			13										
S-56		WASHINGTON ST.	49+93	R-31R-24	24"×30"	5	5			12										
S-57		WASHINGTON ST.	49+65	R-2-36	36"×30"×36"	3.9	3.9		13											
S-58		THIRD ST.	19+60	R-43R-48	48"×18"	6	6		24											
S-59		RAMP "M"	993+88	W-32-48	48"×24"	8	8		23											
S-60		WASHINGTON ST.	53+81	R-1-30	30"×30"	6.25	6.25			13										
S-61a		SECOND ST.	21+20	M-39-24	24"×12"	2	2				15									
				M-1-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
S-61b		SECOND ST.	21+20	M-39-24	24"×12"	2	2				15									
				M-2-24	24"×24"	4	4													
				M-21-21	21"×15"	2.19	2.19													
S-63		UNION ST.	53+81	R-1-30	30"×30"	6.25	6.25			13										
S-64		SECOND ST.	28+00	D-8G-8	48"×8"	2.6	2.6		23											
S-65		SECOND ST.	29+00	R-41B-30	30"×30"	6.25	6.25			12										
S-66a		SECOND ST.	27+00	M-39-24	24"×12"	2	2				15									
				M-1-24	24"×24"	4	4													
				M-19-21	21"×15"	2.19	2.19													
S-66b		SECOND ST.	27+00	M-39-24	24"×12"	2	2				15									
				M-2-24	24"×24"	4	4													
				M-19-21	21"×15"	2.19	2.19													
S-67		SECOND ST.	28+77	R-2-36	36"×36"×36"	3.9	3.9													
				R-41B-30	30"×30"	6.25	6.25			12.5										
S-68a		BROADWAY	48+50	M-39-24	24"×12"	2	2				14									
				M-1-24	24"×24"	4	4													
				M-27-21	21"×15"	2.19	2.19													
S-68b		BROADWAY	48+50	M-39-24	24"×12"	2	2				14									
				M-2-24	24"×24"	4	4													
				M-27-21	21"×15"	2.19	2.19													
S-69		BROADWAY	49+00	R-1-30	30"×30"	6.25	6.25				12									
S-70		SECOND ST.	29+60	D-14-VAR	FURNISHED AND INSTALLED BY LOCAL AUTHORITIES															
S-71		SECOND ST.	29+90	D-14-VAR	FURNISHED AND INSTALLED BY LOCAL AUTHORITIES															
S-72		SECOND ST.	29+76	D-8G-8	48"×8"	2.6	2.6		23											
S-86		WASHINGTON ST.	48+17	R-31R-30	30"×30"	6.25	6.25			13										
S-87	↓	WASHINGTON ST.	49+30	R-41B-30	30"×30"	6.25	6.25			13										
		TOTAL THIS SHEET				739.73	679.73	1	265	353	462.5	60	70.5	1.64	3	1.62	6	4	1	4

GROUND MOUNTED SIGN SUB-SUMMARY

CALC. BY JWZ DATE 11-2-83

CHK'D BY JB DATE 11-10-83

FHWA REGION	STATE	PROJECT	
5	OHIO		

256
362

SUB-SUMMARY : REGULATORY, WARNING AND GUIDE SIGNS

COL-30-35.29

REFERENCE Nº	SHEET Nº	LOCATION	STATION	CODE NUMBER	SIGN SIZE	NET SIGN AREA SQ. FT.	DESCRIPTION 630															
							SIGN FLAT SHEET	OVERHEAD SUPPORT TC-16.20 DES.3 32 ARM	GND.MTD.SUPPORT Nº. 2 POST	GND.MTD.SUPPORT Nº. 3 POST	GND. MTD. SUPPORT Nº. 4 POST	SIGN EXTRU SHEET	GND.MTD.SUPPORT STEEL BEAM S4 X 7.7	CONCRETE FOR ANCHOR BASE FOUNDATIONS	SIGN SUPPORT ASSEMBLY POLE MOUNTED	CONC. FOR EMBEDDED FOUNDATIONS	BREAKAWAY BEAM CONNECTION	SIGN BACKING ASSEMBLY	SIGN SUPPORT ASSEMBLY BRIDGE MOUNTED	ONE WAY SUPPORTS
							SQ.FT.	EACH	LIN.FT.	LIN.FT.	LIN.FT.	SQ.FT.	LIN.FT.	CU.YD.	EACH	CU.YD.	EACH	EACH	EACH	LIN.FT.
S-83	262	BROADWAY	40+27	M-40-24	24"x12"	2	2															
				M-1-24	24"x24"	4	4															
				M-19-21	21"x15"	2.19	2.19															
				M-39-24	24"x12"	2	2															
				M-1-24	24"x24"	4	4															
				M-26-21	21"x15"	2.19	2.19															
				M-40-24	24"x12"	2	2															
				M-2-24	24"x24"	4	4															
				M-19-21	21"x15"	2.19	2.19															
				M-39-24	24"x12"	2	2															
				M-2-24	24"x24"	4	4															
				M-26-21	21"x15"	2.19	2.19															
		TOTAL PLAN SHEET Nº 262				300.78	270.78	0	175	206.5	169	30	28	0	1	0.54	2	1	0	0
S-76	263	RAMP "M"	999+50	W-60-48	48"x48"	16	16				26											
S-77		RAMP "M"	999+50	W-60-48	48"x48"	16	16				32											
S-78		& Nº 1	1001+10	W-49R-48	48"x48"	16	16				32											
S-79		SECOND ST.	32+30	W-94-36	36" DIA.	9	9				13.5											
S-80a		SECOND ST.	33+50	M-1-24	24"x24"	4	4			14												
				M-26-21	21"x15"	2.19	2.19															
S-80b		SECOND ST.	33+50	M-2-24	24"x24"	4	4			14												
				M-26-24	21"x15"	2.19	2.19															
S-81		SECOND ST.	35+25	W-94-36	36" DIA.	9	9				13.5											
S-82		RIVER RD.	3+88	R-1-30	30"x30"	6.25	6.25			13												
S-83		RIVER RD.	2+50	W-94-36	36" DIA.	9	9				13.5											
		TOTAL PLAN SHEET Nº 263				93.63	93.63	0	0	41	130.5	0	0	0	0	0	0	0	0	0		
		TOTAL THIS SHEET				126.39	126.39	0	0	41	130.5	0	0	0	1	0	0	1	0	0		

GROUND MOUNTED SIGN SUB-SUMMARY

SUB - SUMMARY : PAVEMENT MARKINGS

CALC. BY: JWZ DATE: 4-27-84
CHKD. BY: JWZ DATE: 5-9-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

257 / 362

COL - 30 - 35.29

REFERENCE Nº	SHEET Nº	STATION FROM	STATION TO	LOCATION	SIDE	Nº OF LINES	DESCRIPTION 621: 4" EDGE LINES (WHITE) LIN.FT.	4" EDGE LINES (YELLOW) LIN.FT.	4" LANE LINES (WHITE) LIN.FT.	8" CHANNELIZING LINES (WHITE) LIN.FT.	4" BROKEN CENTERLINE (YELLOW) LIN.FT.	4" BROKEN & SOLID DOUBLE CENTERLINE (YELLOW) LIN.FT.	4" DOUBLE SOLID CENTERLINE (YELLOW) LIN.FT.	24" TRANSVERSE STRIPE (WHITE) LIN.FT.	24" TRANSVERSE STRIPE (YELLOW) LIN.FT.	24" STOP LINE (WHITE) LIN.FT.	12" CROSSWALK LINES (WHITE) LIN.FT.	LANE ARROW (WHITE) EACH	WORD "ONLY" ON PAVEMENT (WHITE) EACH	R3-8 CROSSING SYMBOL ON PAVT (WHITE) EACH
1	259	948+14	956+00	℄ Nº1	RT.	1			786											
2		948+00	956+00	℄ Nº1	RT.	1	800													
3		948+00	956+00	℄ Nº1	LT.	1		800												
4		955+95	956+00	℄ Nº1	LT.	1			5											
5	▼	955+95	956+00	℄ Nº1	LT.	1				5										
6																				
7																				
8		SUBTOTAL SHEET Nº 259					800	800	791	5										
9																				
10																				
11	260	956+00	957+45	℄ Nº1	LT.	1	600													
12		956+00	962+00	℄ Nº1	LT.	1				45										
13		956+00	962+00	℄ Nº1	LT.	1			600											
14		956+00	962+00	℄ Nº1	LT.	1		600												
15		956+00	962+00	℄ Nº1	RT.	1		600												
16		956+00	962+00	℄ Nº1	RT.	1			600											
17		956+00	960+54	℄ Nº1	RT.	1	454													
18		960+54	962+00	℄ Nº1	RT.	1			146											
19		8+66	960+54 ℄ Nº1	RAMP "B"	RT.	1				188										
20		8+66	962+00 ℄ Nº1	RAMP "B"	RT.	1	334													
21		962+00	975+00 RAMP "L"	℄ Nº1	LT.	1	1300													
22		963+50	975+00	℄ Nº1	LT.	1			1150											
23		963+50	975+00	℄ Nº1	LT.	1		1150												
24		967+00	970+00	℄ Nº1	LT.	1			300											
25		970+00	972+00	RAMP "L"	RT.	1				200										
26		972+00	975+00	RAMP "L"	RT.	1		300												
27		970+00	975+00	℄ Nº1	LT.	1	500													
28		963+50	975+00	℄ Nº1	RT.	1		1150												
29		963+50	969+45	℄ Nº1	RT.	2			1190											
30		969+45	975+00	℄ Nº1	RT.	1			555											
31		963+50	975+00 RAMP "N"	℄ Nº1	RT.	1	1150													
32		969+45	972+17	℄ Nº1	RT.	1				272										
33		972+17	975+00	℄ Nº1	RT.	1	283													
34		969+45	972+20	RAMP "N"	LT.	1				275										
35		972+20	975+00	RAMP "N"	LT.	1		280												
36	▼	969+45	972+20	RAMP "N"	LT.	1							250							
37																				
38																				
39		SUBTOTAL SHEET Nº 260					4621	4080	4541	980			250							
40																				
41																				
42	261	975+00	988+00	℄ Nº1	LT.	1	1300													
43		975+00	988+00	℄ Nº1	LT.	1			1300											
44		975+00	988+00	℄ Nº1	LT.	1		1300												
45		975+00	988+00	℄ Nº1	RT.	1		1300												
46		975+00	988+00	℄ Nº1	RT.	1			1300											
47		975+00	988+00	℄ Nº1	RT.	1	1300													
48		975+00	979+36	RAMP "L"	℄	1	436													
49		975+00	979+46	RAMP "L"	RT.	1		446												
50		975+00	980+20	RAMP "N"	LT.	1		520												
51		978+18	980+20	RAMP "N"	LT.	1				202										
52		975+00	980+00	RAMP "N"	℄	1	520													
53		978+92	—	RAMP "N"	LT.	1												1		
54		979+32	—	RAMP "N"	LT.	1												1		
55		979+92	—	RAMP "N"	LT.	1												1		
56		980+22	—	RAMP "N"	LT.	1										24				
57		45+68	49+56	W. FIRST	℄	1										12				
58		49+56	—	W. FIRST	LT.&RT.	1							388			12				
59		10+37	—	SECOND ST.	LT.&RT.	1											57			
60		10+48	—	SECOND ST.	LT.&RT.	1											48			
61		10+52	—	SECOND ST.	LT.&RT.	1										32				
62		10+54	11+21	SECOND ST.	LT.	1				67										
63		10+54	11+50	SECOND ST.	RT.	1							96							
64		10+82	—	SECOND ST.	LT.	1												2		
65		11+22	—	SECOND ST.	LT.	1													2	
66		11+50	14+00	SECOND ST.	LT.&RT.	2							500							
67		11+50	14+00	SECOND ST.	LT.&RT.	1								180						
68		14+00	15+25	SECOND ST.	℄	1							125							
69		16+00	18+00	SECOND ST.	℄	1					200									
70		10+28	—	THIRD ST.	LT.&RT.	1											42			
71		10+39	—	THIRD ST.	LT.&RT.	1											40			
72		10+43	—	THIRD ST.	LT.	1										20				
73		10+43	12+30	THIRD ST.	℄	1				187										
74		10+73	—	THIRD ST.	LT.	1												1		
75		11+15	—	THIRD ST.	LT.	1													1	
76		11+70	—	THIRD ST.	LT.	1												1		
77		12+60	18+00	THIRD ST.	℄	1			540											
78		48+27	49+57	MARKET ST.	℄	1					130									
79		48+57	—	MARKET ST.	RT.	1										28				
80		48+61	—	MARKET ST.	LT.&RT.	1											56			
81	▼	48+71	—	MARKET ST.	LT.&RT.	1											80			

REFERENCE Nº	SHEET Nº	STATION FROM	STATION TO	LOCATION	SIDE	Nº OF LINES	DESCRIPTION 621: 4" EDGE LINES (WHITE) LIN.FT.	4" EDGE LINES (YELLOW) LIN.FT.	4" LANE LINES (WHITE) LIN.FT.	8" CHANNELIZING LINES (WHITE) LIN.FT.	4" BROKEN CENTERLINE (YELLOW) LIN.FT.	4" BROKEN & SOLID DOUBLE CENTERLINE (YELLOW) LIN.FT.	4" DOUBLE SOLID CENTERLINE (YELLOW) LIN.FT.	24" TRANSVERSE STRIPE (WHITE) LIN.FT.	24" TRANSVERSE STRIPE (YELLOW) LIN.FT.	24" STOP LINE (WHITE) LIN.FT.	12" CROSSWALK LINES (WHITE) LIN.FT.	LANE ARROW (WHITE) EACH	WORD "ONLY" ON PAVEMENT (WHITE) EACH	R3-8 CROSSING SYMBOL ON PAVT (WHITE) EACH
82	261	45+00	49+67	JACKSON ST.	℄	1									467					
83		49+67	—	JACKSON ST.	LT.&RT.	1											45			
84		49+77	—	JACKSON ST.	LT.&RT.	1											56			
85		50+30	53+12	JACKSON ST.	℄	1									282					
86		50+40	—	JACKSON ST.	LT.	1												2		
87		50+78	—	JACKSON ST.	LT.	1												2	2	
88		51+20	—	JACKSON ST.	LT.	1												2		
89		52+22	—	JACKSON ST.	RT.	1												2		
90		52+66	—	JACKSON ST.	RT.	1													2	
91		53+02	—	JACKSON ST.	RT.	1												2		
92		50+30	52+10	JACKSON ST.	RT.	1			180											
93		50+30	51+35	JACKSON ST.	LT.	1				105										
94		51+35	53+12	JACKSON ST.	LT.	1			177											
95		52+10	53+12	JACKSON ST.	RT.	1				102										
96		53+75	—	JACKSON ST.	LT.&RT.	1											50			
97	▼	53+65	—	JACKSON ST.	LT.&RT.	1											60			
98																				
99																				
100		SUBTOTAL SHEET Nº 261					3556	3566	3497	663	330		1858		180	113	534	14	8	
101																				
102																				
103	262	988+00	998+50	℄ Nº1	LT.	1	1050													
104		988+00	991+50	℄ Nº1	LT.	1			350											
105		991+50	999+00	℄ Nº1	LT.	2			1500											
106		998+50	999+00	℄ Nº1	LT.	1			50											
107		988+00	999+00	℄ Nº1	LT.	1			1100											
108		988+00	999+00	℄ Nº1	RT.	1			1100											
109		988+00	999+00	℄ Nº1	RT.	1			1100											
110		988+00	999+00	℄ Nº1	RT.	1	1100													
111		993+10	999+00	RAMP "M"	LT.	1		590												
112		993+10	999+00	RAMP "M"	LT.	1			590											
113		994+25	999+00	RAMP "M"	℄	1	475													
114		21+18 THIRD ST.	999+00	RAMP "O"	℄	1	730													
115		20+65 THIRD ST.	996+20	RAMP "O"	RT.	1		503												
116		996+20	999+00 ℄ Nº1	RAMP "O"	RT.	1				280										
117		996+20	998+50	RAMP "O"	RT.	1											250			
118		18+00	19+70	SECOND ST.	℄	1														
119		20+70	21+90	SECOND ST.	℄	1														
120		21+90	24+00	SECOND ST.	℄	1														
121		25+00	26+30	SECOND ST.	℄	1														
122		26+30	28+20	SECOND ST.	℄	1														
123		28+20	29+50	SECOND ST.	℄	1														
124		30+00	31+00	SECOND ST.	℄	1														
125		18+00	21+90	THIRD ST	℄	1														
126		46+17	—	WASHINGTON	RT.	1														
127		46+21	—	WASHINGTON	LT.&RT.	1														
128		46+31	—	WASHINGTON	LT.&RT.	1														
129		46+80	—	WASHINGTON	LT.&RT.	1														
130		46+90	—	WASHINGTON	LT.&RT.	1														
131		46+94	—	WASHINGTON	LT.&RT.	1														
132		46+94	48+17	WASHINGTON	RT.	2														
133		47+24	—	WASHINGTON	LT.	1														
134		47+62	—	WASHINGTON	LT.	1														
135		48+42	49+25	WASHINGTON	℄	1														
136		29+76	—	FOURTH ST.	LT.&RT.	1														
137		29+86	—	FOURTH ST.	LT.&RT.	1														
138		30+35	—	FOURTH ST.	LT.&RT.	1														
139		30+45	—	FOURTH ST.	LT.&RT.	1														
140		30+45	31+53	FOURTH ST.	LT.	1														
141		30+45	34+68	FOURTH ST.	LT.&RT.	1														
142		32+20	34+70	FOURTH ST.	RT.	1														
143		30+75	—	FOURTH ST.	℄ & LT.	1														
144		31+12	—	FOURTH ST.	℄	1														
145		34+68	—	FOURTH ST.	LT.&RT.	1														
146		35+67	—	FOURTH ST.	LT.&RT.	1														
147		35+77	—	FOURTH ST.	LT.&RT.	1														
148		35+81	—	FOURTH ST.	LT.	1														
149		35+81	36+40	FOURTH ST.	℄	1														
150		41+75	42+00	BROADWAY	℄	1														
151		41+75	42+00	BROADWAY	LT.&RT.	2														
152		42+35	—	BROADWAY	LT.&RT.	1														
153		42+45	—	BROADWAY	LT.&RT.	1														
154		42+96	48+95	BROADWAY	℄	1														
155		42+75	46+85	BROADWAY	RT.	1														
156		42+96	48+95	BROADWAY	LT.	1														
157		47+15	48+31	BROADWAY	RT.	1														
158	▼	48+31	—	BROADWAY	RT.	1														
159																				
160																				
161		SUBTOTAL SHEET Nº 262					3355	3293	5289	627	480	1041	841	250		101	498	4	2	
162																				

PAVEMENT MARKING SUB-SUMMARY

CALC. BY: JWZ DATE: 4-27-84
CHKD. BY: JWZ DATE: 5-9-84

FHWA REGION	STATE	PROJECT	
5	OHIO		

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362

COL-30-35.29

SUB-SUMMARY : PAVEMENT MARKINGS

REFERENCE Nº	SHEET Nº	STATION FROM	STATION TO	LOCATION	SIDE	Nº OF LINES	DESCRIPTION 621
							LIN. FT

REFERENCE Nº	SHEET Nº	STATION FROM	STATION TO	LOCATION	SIDE	Nº OF LINES	DESCRIPTION 621 4" EDGE LINES (WHITE) LIN. FT	4" EDGE LINES (YELLOW) LIN. FT	4" LANE LINES (WHITE) LIN. FT	8" CHANNELIZING LINES (WHITE) LIN. FT	4" BROKEN CENTERLINE (YELLOW) LIN. FT	4" BROKEN & SOLID DOUBLE CENTERLINE (YELLOW) LIN. FT	4" DOUBLE SOLID CENTERLINE (YELLOW) LIN. FT	24" TRANSVERSE STOP LINE (WHITE) LIN. FT	24" TRANSVERSE GORE STRIPE (YELLOW) LIN. FT	24" STOP LINE (WHITE) LIN. FT	12" CROSSHALK LINES (WHITE) LIN. FT	LANE ARROW (WHITE) EACH	WORD "ONLY" PAVEMENT (WHITE) EACH	R.R. CROSSING SYMBOL IN PAVT (WHITE) EACH
1	263	999+00 RAMP "O"	1011+00	℄ No 1	LT.	1	1200													
2		999+00	999+12	℄ No 1	LT.	1				12										
3		999+00	1011+00	℄ No 1	LT.	2			2400											
4		999+00	1011+00	℄ No 1	LT.	1		1200												
5		999+00	1011+00	℄ No 1	RT.	1		1200												
6		999+00	1011+00	℄ No 1	RT.	1			1200											
7		999+00	1009+00	℄ No 1	RT.	1	1000													
8		1009+00	1011+00	℄ No 1	RT.	1			200											
9		999+00	1007+00	RAMP "M"	LT.	1		850												
10		1007+00	1009+00 ℄ No 1	RAMP "M"	LT.	1				200										
11		999+00	1001+10	RAMP "M"	LT.	1			210											
12		999+00	1011+00 ℄ No 1	RAMP "M"	℄	1	1200													
13		31+00	33+50	SECOND ST.	℄	1							250							
14		34+40	35+90	SECOND ST.	℄	1						155								
15		32+75	—	SECOND ST.	RT.															1
16		34+75	—	SECOND ST.	LT.															1
17		33+80	35+95	SECOND ST.	LT.	1	215													
18		33+34	3+10 RIVER RD.	SECOND ST.	RT.	1	145													
19		3+10	35+95 SECOND ST.	RIVER RD.	RT.	1	265													
20		3+10	3+88	RIVER RD.	℄	1					78									
21		3+88	—	RIVER RD.	RT.											18				
22		10+00	13+63	REL. THIRD ST.	℄	1							363							
23																				
24																				
25		SUBTOTAL SHEET Nº 263					4025	3250	4010	212	78	155	613			18				2
26																				
27																				
28	264	1011+00	1035+00 RAMP "C"	℄ No 1	LT.	1	2420													
29		1011+00	1034+00 RAMP "C"	℄ No 1	LT.	1			2400											
30		1011+00	1029+00 ℄ No 4	℄ No 1	LT.	1			1800											
31		1011+00	1029+00 ℄ No 4	℄ No 1	LT.	1		1800												
32		1025+62	1028+52	℄ No 4	LT.	1			290											
33		1011+00	1017+00 ℄ No 3	℄ No 1	RT.	1		600												
34		1011+00	1016+90 ℄ No 3	℄ No 1	RT.	1			590											
35		1011+00	1017+00 ℄ No 3	℄ No 1	RT.	1			600											
36		1011+00	1017+00 ℄ No 3	℄ No 1	RT.	1	600													
37																				
38																				
39		SUBTOTAL SHEET Nº 264					3020	2400	5680											
40																				
41																				
42		TOTAL SHEET Nºs: 259, 260, 261, 262, 263, & 264					19377	17389	23808	2487	888	1196	3312	500	180	232	1032	18	10	2
							3.67 MI.	3.29 MI.	4.51 MI.	0.47 MI.	0.17 MI.	0.23 MI.	0.63 MI.							
												1.03 Miles								

ITEM 620 DELINEATORS

LOCATION	STATION FROM	STATION TO	SIDE	MAX SPACING LIN. FT.	TYPE A	FLEXIBLE POST MID TYPE C	FLEXIBLE POST MID TYPE D	BRKT. MID TYPE C	BRKT. MID TYPE D
RAMP "N"	963+50 ℄ No 1	971+00	RT	200		5			
RAMP "N"	972+25 ℄ No 1	980+25	LT	200			5		
RAMP "L"	962+00 ℄ No 1	971+35	LT	200		5			
RAMP "L"	973+35	979+50	RT	200			4		
℄ No. 1	972+31	1003+00	RT	400		8			
℄ No. 1	973+50	996+00	LT	400		6			
RAMP "M"	994+50	1004+00 ℄ No 1	LT	200			4		1
RAMP "M"	1006+00 ℄ No 1	1010+50 ℄ No 1	RT	200		3			
RAMP "O"	21+20 3RD ST	996+20	RT	200			3		
RAMP "O"	998+20	1010+50 ℄ No 1	LT	200		6		1	
		TOTALS				33	16	1	1

DELINEATOR & PAVEMENT MARKING SUB-SUMMARY

FHWA REGION	STATE	PROJECT	
5	OHIO		

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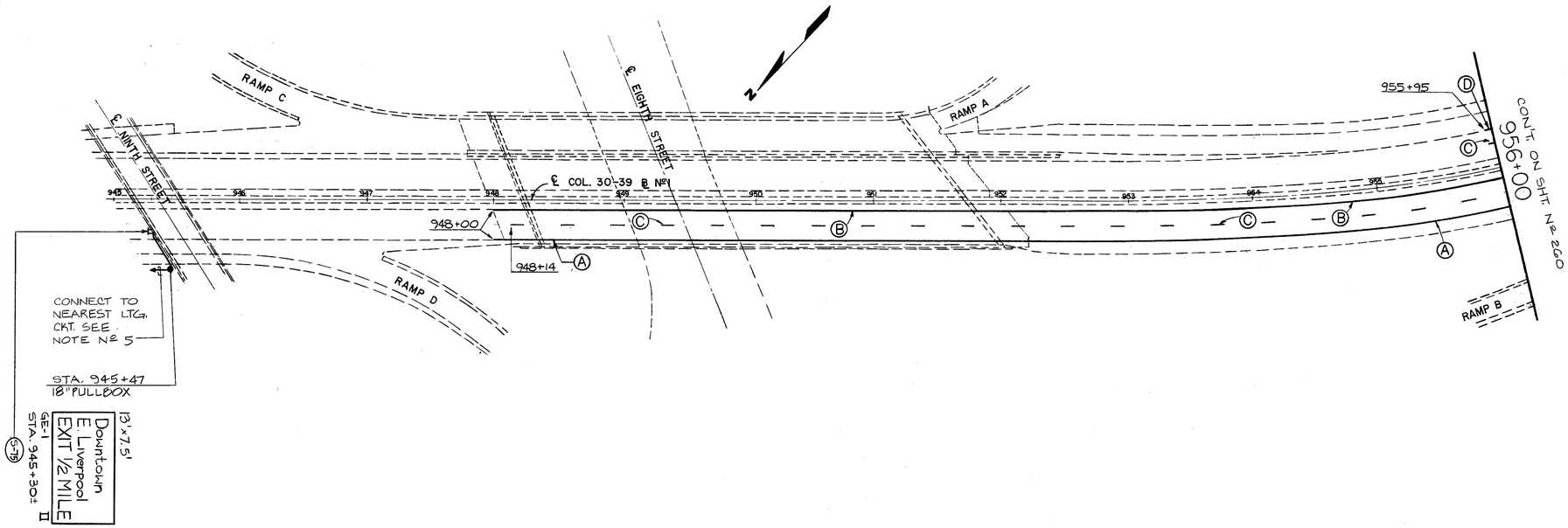
362

COL- 30 - 35.29



NOTES:

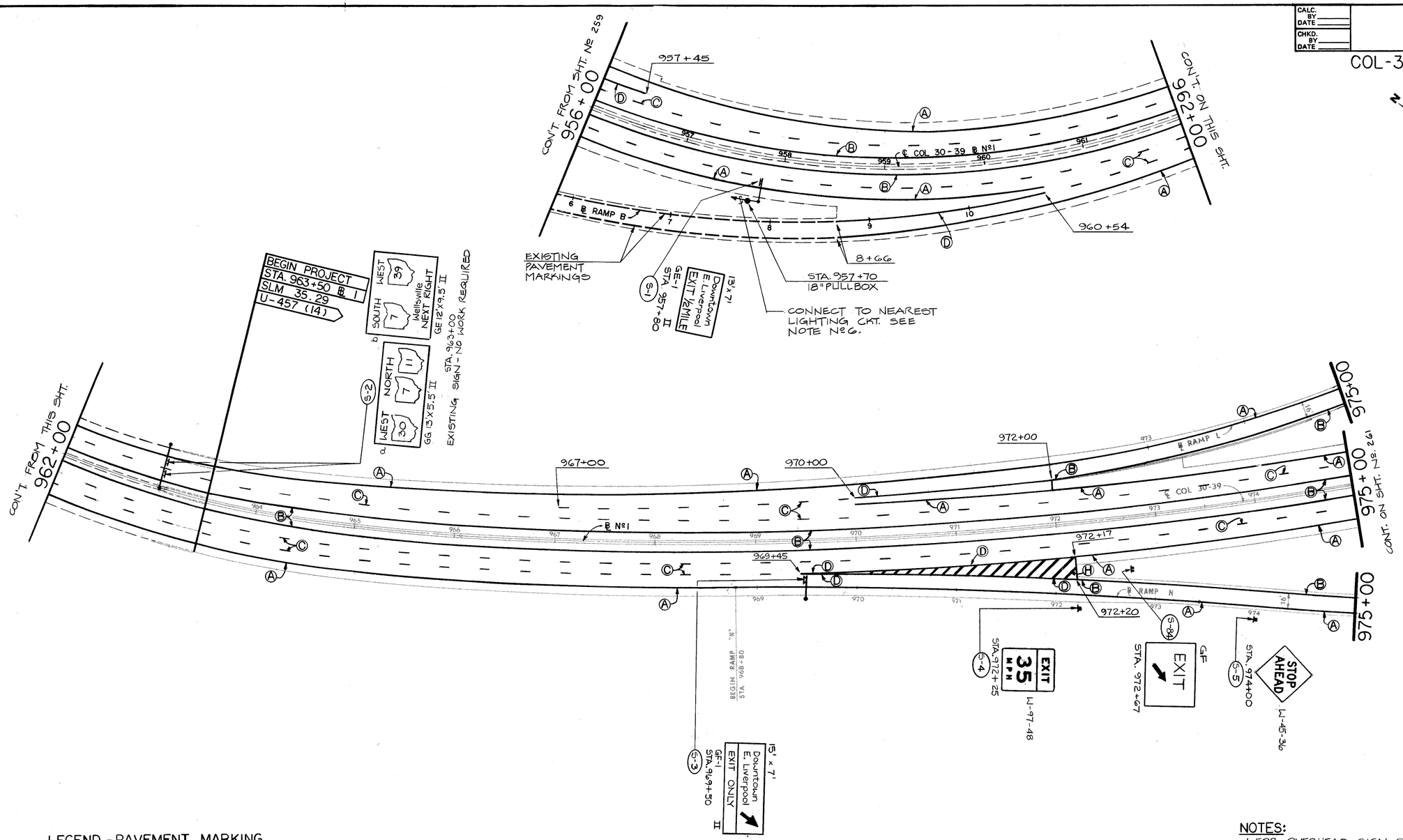
1. FOR OVERHEAD SIGN DETAILS SEE SHT Nºs. 266, 267, & 268
2. FOR OVERHEAD SIGN QUANTITIES SEE SHT. Nº. 254
3. FOR PAVEMENT MARKING QUANTITIES SEE SHT. Nº 257
4. FOR GENERAL NOTES SEE SHT. Nº 251
5. ALL MATERIALS AND WORK REQUIRED TO SUPPLY ELECTRIC SERVICE TO SIGN S-75, SHALL BE INCLUDED IN ITEM "631 SIGN SERVICE"
6. FOR PAVEMENT MARKING LEGEND SEE SHT. Nº. 260

50 25 0 50 100
SCALE: 1" = 50'

SIGNING & PAVEMENT MARKING PLAN
BEGIN WORK STA. 945+30 M TO STA. 956+00 M

CALC. BY DATE		OHIO	260
CHKD. BY DATE		FHWA REGION 5	362

COL-30 - 35.29



LEGEND - PAVEMENT MARKING

A. 4" Edge Lines, White
B. 4" Edge Lines, Yellow
C. 4" Lane Lines, White
D. 8" Channelize Line, White
E. 4" Broken Centerline, Yellow
F. 4" Broken & Solid Double Centerline, Yellow
G. 4" Double Solid Centerline, Yellow
H. 24" Transverse Lines, White
J. 24" Transverse Lines, Yellow
K. 24" Stop Lines, White
L. 12" Crosswalk Lines, White
M. Lane Arrow, White
N. Word "Only" on Pavement, White
P. R.R. Crossing Symbols on Pavement, White

NOTES:

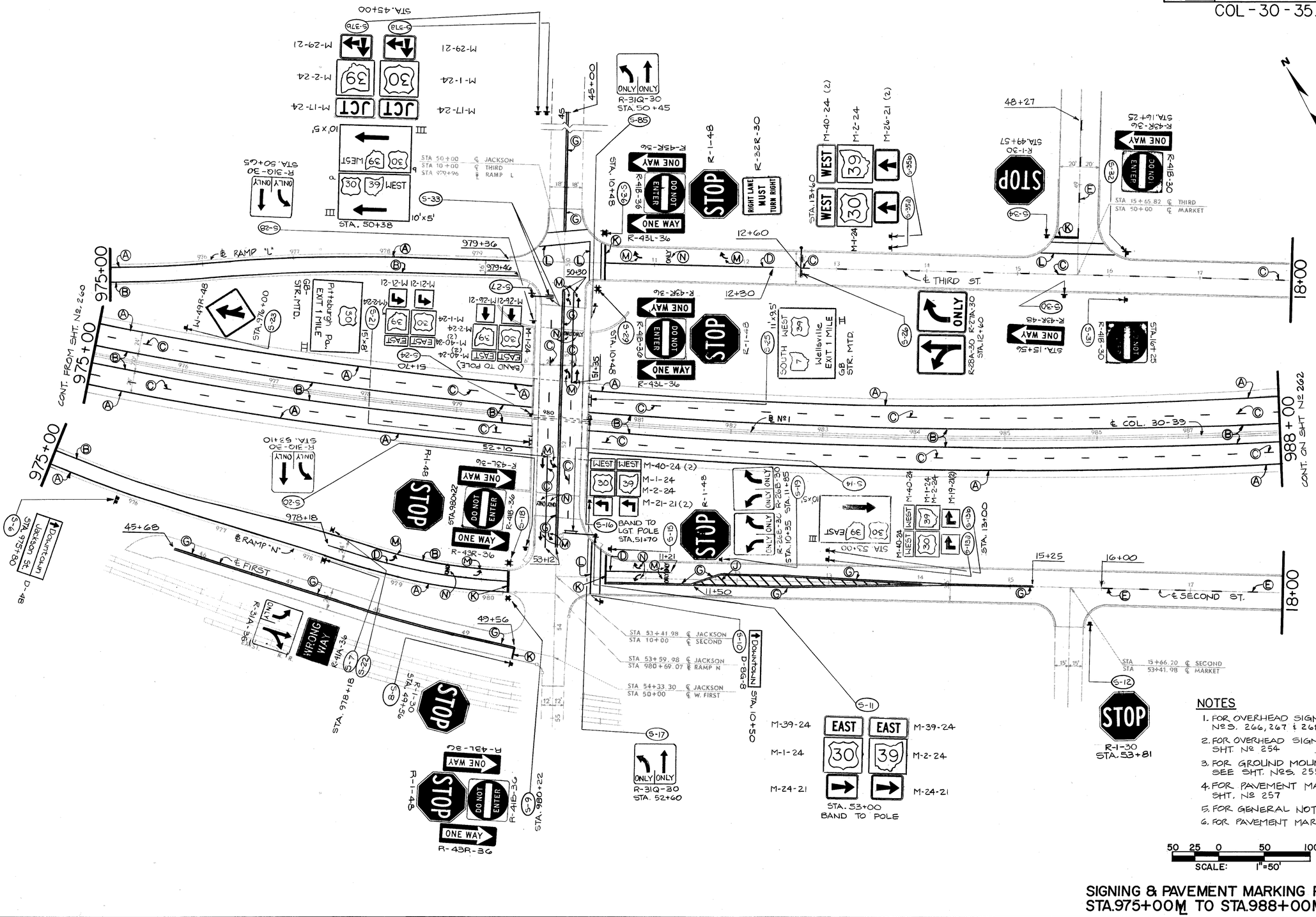
1. For overhead sign details see sht. Nos. 266, 267 & 268
2. For overhead sign quantities see sht. No. 254
3. For ground mounted sign quantities see sht. Nos. 255 & 256
4. For pavement marking quantities see sht. Nº 257
5. For general notes see sht. Nº 251
6. All materials & work required to supply electric service to sign S-1 shall be included in item "631 sign service".

50 25 0 50 100
SCALE: 1"=50'

SIGNING & PAVEMENT MARKING PLAN STA.956+00M TO STA.975+00M

CALC. BY DATE		OHIO	261
CHKD. BY DATE		FHWA REGION 5	362

COL - 30 - 35.29



NOTES

1. FOR OVERHEAD SIGN DETAILS SEE SHT. Nºs. 266, 267 & 268
2. FOR OVERHEAD SIGN QUANTITIES SEE SHT. Nº 254
3. FOR GROUND MOUNTED SIGN QUANTITIES SEE SHT. Nºs. 255 & 256
4. FOR PAVEMENT MARKING QUANTITIES SEE SHT. Nº 257
5. FOR GENERAL NOTES SEE SHT. Nº 251
6. FOR PAVEMENT MARKING LEGEND SEE SHT. Nº 260

SIGNING & PAVEMENT MARKING PLAN STA.975+00M TO STA.988+00M

CALC. BY		OHIO	262
DATE		FHWA REGION 5	362
CHKD. BY			
DATE			

COL - 30 - 35.29

N

NOTES

1. FOR OVERHEAD SIGN DETAILS SEE SHT. Nos. 266, 267 & 268
2. FOR OVERHEAD SIGN QUANTITIES SEE SHT. No 254
3. FOR GROUND MOUNTED SIGN QUANTITIES SEE SHT. Nos. 255 & 256
4. FOR PAVEMENT MARKING QUANTITIES SEE SHT. No 257
5. FOR GENERAL NOTES SEE SHT. No 251
6. FOR PAVEMENT MARKING LEGEND SEE SHT. No 260

CONT. FROM SHT. No. 261

CONT. ON SHT. No. 263

PROP. RETAINING WALL

STOP R-1-30 STA. 46+88

STOP R-1-30 STA. 32+20

STOP R-1-30 STA. 53+81

STOP R-1-30 STA. 23+77

STOP R-1-30 STA. 49+00

STOP R-1-30 STA. 34+87

STOP R-1-30 STA. 29+00

STOP R-1-30 STA. 35+80

R-3IA-30 ONLY STA. 47+17

R-3IR-24 KEEP RIGHT STA. 49+30

R-2B6-30 ONLY STA. 45+38

R-3IA-30 KEEP RIGHT STA. 42+34

R-2B6-30 ONLY STA. 42+39

EXIT 35 MPH STA. 995+25

EXIT GF STA. 995+10

WRONG WAY R-4AK-36 STA. 993+00

WRONG WAY R-4AK-36 STA. 993+45

ONE WAY R-4BR-48 STA. 19+60

YIELD R-2-30 STA. 49+25

DO NOT ENTER R-4I8-30 STA. 21+18

DO NOT ENTER R-4I8-30 STA. 29+00

DO NOT ENTER R-4I8-30

D-8G-8 DOWNTOWN STA. 46+29

D-8G-8 DOWNTOWN STA. 42+20

D-8G-8 DOWNTOWN STA. 29+00

D-8G-8 DOWNTOWN STA. 29+76 (DOUBLE FACE)

D-8G-8 DOWNTOWN STA. 29+62 (SINGLE FACE)

D-4B-48 DOWNTOWN BROADWAY ST. STA. 993+00

M-40-24 M-2-24 M-21-21 WEST 39 30 STA. 29+74

M-1-24 M-21-21 STA. 46+17

M-1-24 M-39-24 M-1-21 (2) EAST 39 30 STA. 42+70

M-1-24 M-2-24 M-1-21 (2) EAST 39 30 STA. 40+27

M-1-24 M-2-24 M-1-21 (2) EAST 39 30 STA. 45+50

M-1-24 M-2-24 M-1-21 (2) EAST 39 30 STA. 27+00

M-1-24 M-2-24 M-39-24 (2) EAST 39 30 STA. 21+20

M-1-24 M-2-24 M-39-24 (2) WEST 39 30 STA. 23+77

M-1-24 M-2-24 M-1-21 (2) WEST 39 30 STA. 42+70

M-1-24 M-2-24 M-1-21 (2) KEEP RIGHT EAST 39 30 STA. 42+34

M-2-24 M-1-21 (2) WEST 39 30 STA. 53+81

M-2-24 M-1-21 (2) WEST 39 30 STA. 53+81

M-32-48 STA. 993+88

M-97-48 STA. 995+25

M-97-48 STA. 995+10

M-209-48 STA. 993+10

M-209-48 STA. 993+45

M-209-48 STA. 993+00

M-209-48 STA. 992+65.26 ℄ RAMP M STA. 24+29.21 ℄ RELOC. SECOND

M-209-48 STA. 992+35 BEGIN ℄ RAMP "O" STA 21+83 ℄ THIRD

M-209-48 STA. 20+09.57 ℄ THIRD 50+00 ℄ WASHINGTON

M-209-48 STA. 30+09.54 ℄ FOURTH STA 46+58.96 ℄ WASHINGTON

M-209-48 STA. 42+30.12 ℄ BROADWAY STA 35+27.85 ℄ FOURTH

M-209-48 STA 42+69.81 ℄ BROADWAY STA 35+27.85 ℄ FOURTH

M-209-48 STA 20+10.24 ℄ SECOND STA 53+41.98 ℄ WASHINGTON

M-209-48 STA 43+45.78 ℄ BROADWAY STA 999+89.61 ℄ RAMP M

M-209-48 STA 42+30.12 ℄ BROADWAY STA 35+27.85 ℄ FOURTH

M-209-48 STA. 27+00

M-209-48 STA. 29+62.45

M-209-48 STA. 29+50

M-209-48 STA. 29+76

M-209-48 STA. 49+00

M-209-48 STA. 45+38

M-209-48 STA. 49+30

M-209-48 STA. 49+25

M-209-48 STA. 49+45

M-209-48 STA. 47+17

M-209-48 STA. 46+29

M-209-48 STA. 42+20

M-209-48 STA. 42+75

M-209-48 STA. 42+26

M-209-48 STA. 34+68

M-209-48 STA. 34+70

M-209-48 STA. 31+53

M-209-48 STA. 32+20

M-209-48 STA. 46+95

M-209-48 STA. 47+17

M-209-48 STA. 48+42

M-209-48 STA. 49+25

M-209-48 STA. 21+18

M-209-48 STA. 21+90

M-209-48 STA. 20+65

M-209-48 STA. 19+60

M-209-48 STA. 993+10

M-209-48 STA. 24+00

M-209-48 STA. 25+00

M-209-48 STA. 26+30

M-209-48 STA. 28+20

M-209-48 STA. 29+50

M-209-48 STA. 30+00

M-209-48 STA. 31+00

M-209-48 STA. 46+85

M-209-48 STA. 47+15

M-209-48 STA. 46+50

M-209-48 STA. 45+95

M-209-48 STA. 998+50

M-209-48 STA. 999+00

M-209-48 STA. 996+20

M-209-48 STA. 994+25

M-209-48 STA. 993+10

M-209-48 STA. 991+50

M-209-48 STA. 988+00

M-209-48 STA. 18+00

M-209-48 STA. 19+70

M-209-48 STA. 20+70

M-209-48 STA. 21+90

M-209-48 STA. 24+00

M-209-48 STA. 25+00

M-209-48 STA. 26+30

M-209-48 STA. 28+20

M-209-48 STA. 29+50

M-209-48 STA. 30+00

M-209-48 STA. 31+00

M-209-48 ℄ THIRD ST.

M-209-48 ℄ SECOND ST.

M-209-48 ℄ RAMP "M"

M-209-48 ℄ No 1

M-209-48 ℄ RELOC. SECOND

M-209-48 BROADWAY ST. (SINGLE FACE)

M-209-48 SECOND ST.

M-209-48 FOURTH ST.

M-209-48 BROADWAY ST.

M-209-48 DOUBLE FACE

M-209-48 10'x5'

M-209-48 91'x6.5'

M-209-48 SCALE: 1"=50'

SIGNING & PAVEMENT MARKING PLAN
STA. 988+00 ℳ TO STA. 999+00 ℳ

CALC. BY		OHIO	263
DATE		FHWA REGION 5	362
CHKD. BY			
DATE			

COL - 30 - 35.29

N

CONT. FROM SHT. Nº 262

999+00

999+12

STA. 999+90.74 ℳ
66.68' LT.

STA. 999+95.26 ℳ
66.68' LT.

15' x 5' Downtown E. Liverpool GF-1

15' x 7' RIGHT LANE ENDS MERGE LEFT W-54C-SPEC.

13' x 4' WEST 39 30 GG

S-73

999+93 ℳ

WALNUT ST.

COLLEGE ST.

10+00

13+63

11 RELOC. 12 12 12 THIRD ST. 13

END ℙ RAMP O STA 1003+00.57

℄ RAMP O

℄ COL 30-39

℄ Nº 1

℄ RAMP M

EXIST. RETAINING WALL Nº 5

1001+10

1007+00

1009+00

END PROJECT
STA. 1010+50 ℬ 1
SLM 36.18
U-457 (14)

15' x 7' Downtown E. Liverpool EXIT 1/4 MILE GE-1 STA. 1008+00 S-74

CONT. ON SHT. Nº 264

1011+00 (ℬ Nº1)

W-60-48 S-76 STA. 999+50 S-76 S-77

S-76 STA. 1001+10 W-49R-48

31+00

℄ SECOND ST.

W-94-36 STA 32+30 S-79

33+50

33+80

33+34

EXIST. R R

M-1-24

M-26-21

M-2-24

M-26-21

S-80b S-80a 39 30 STA. 33+50

3+10

℄ RIVER RD.

S-88 W-94-36 STA. 2+50

S-82

STOP E-1-30 STA. 3+88

34+40

S-81 W-94-36 STA. 35+25

35+95

NOTES

1. FOR OVERHEAD SIGN DETAILS SEE SHT. NºS. 266, 267 & 268
2. FOR OVERHEAD SIGN QUANTITIES SEE SHT. Nº 254
3. FOR GROUND MOUNTED SIGN QUANTITIES SEE SHT. NºS 255 & 256
4. FOR PAVEMENT MARKING QUANTITIES SEE SHT. Nº 258
5. FOR GENERAL NOTES SEE SHT. Nº. 251
6. FOR PAVEMENT MARKING LEGEND SEE SHT. Nº 260

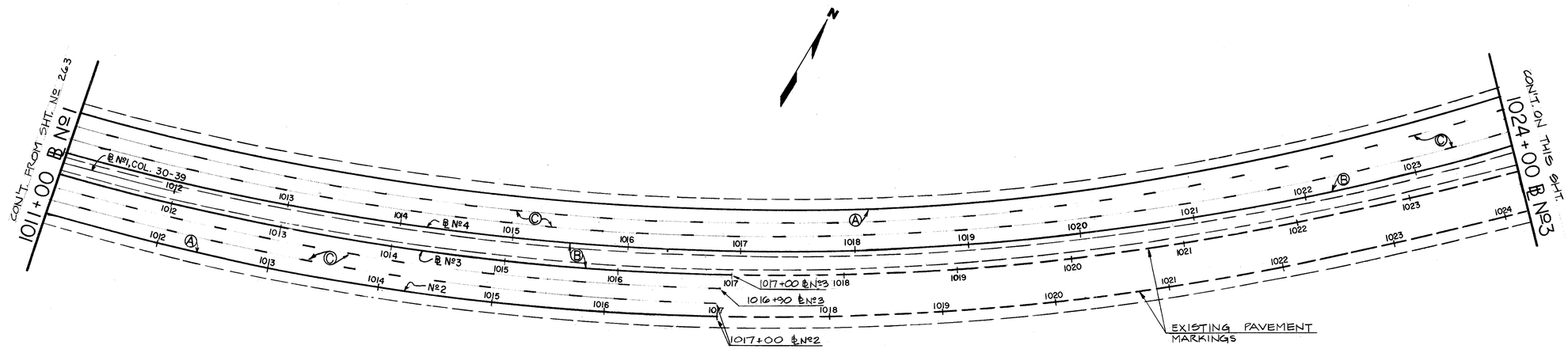
50 25 0 50 100
SCALE: 1"=50'

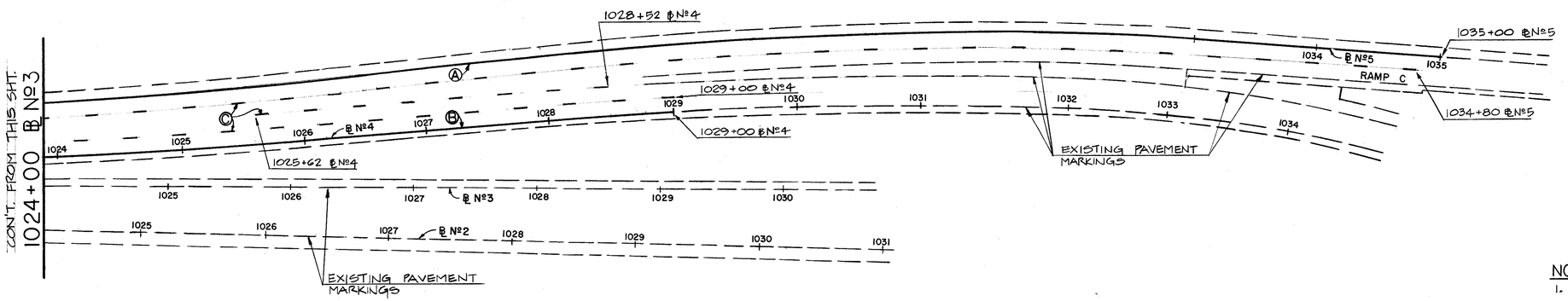
SIGNING & PAVEMENT MARKING PLAN STA.999+00ℳ TO STA.1011+00ℳ (ℬ Nº1)

AA B/Pe 73202

CALC. BY DATE		OHIO	264
CHKD. BY DATE		FHWA REGION 5	362

COL-30-35.29





NOTES:

1. FOR PAVEMENT MARKING QUANTITIES SEE SHT. Nº 258
2. FOR GENERAL NOTES SEE SHT. Nº. 251
3. FOR PAVEMENT MARKING LEGEND SEE SHT. Nº. 260

50 25 0 50 100

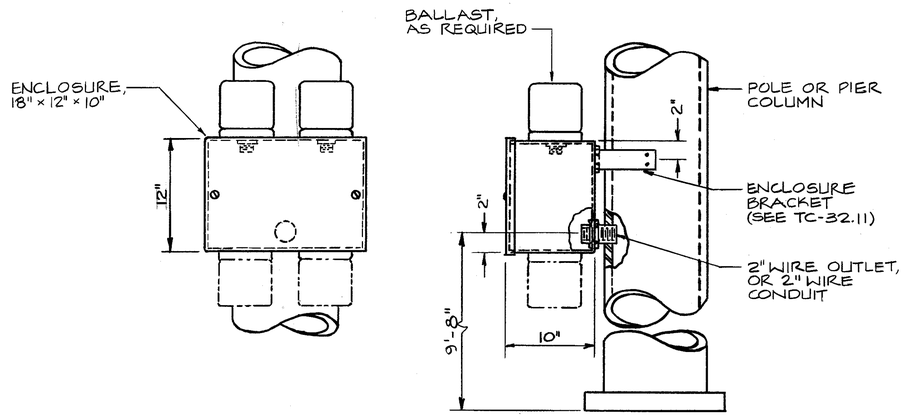
SCALE: 1" = 50'

SIGNING & PAVEMENT MARKING PLAN
STA. 1011+00 ℄-1 TO END WORK STA. 1035+00 ℄-5

AA B/P

CALC. BY DATE		OHIO	265
CHKD. BY DATE		FHWA REGION 5	362

COL-30-35.29



BALLAST WIRING ENCLOSURE, TYPE B

NO SCALE

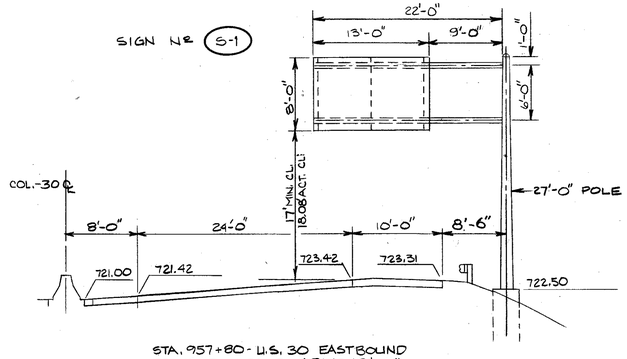
CALC. BY J.L.B. DATE 9-1-83
CHK'D BY J.W.Z. DATE 10-18-83

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
	5	OHIO		

266
362

COL-30-35.29

SIGN Nº S-1

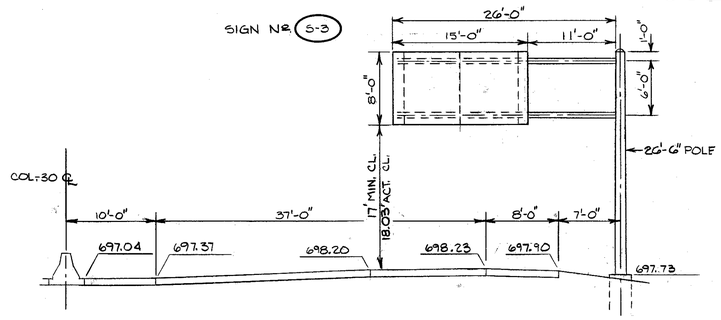


STA. 957+80 - U.S. 30 EASTBOUND
TC-12.30 DES. 5 ARM = 22'-0"

8'-0" X 13'-0" = 104 SQ. FT.
Nº OF BRACKETS = 3, HEIGHT = 8'-0" TC-22.20
BRACKET & SUPPORT ARM SPACING:
6", 72", 72", 6"
FIXTURES - 2 @ 3'-6", 6'-0", 3'-6"

I.D. Nº COL. 30-

SIGN Nº S-3

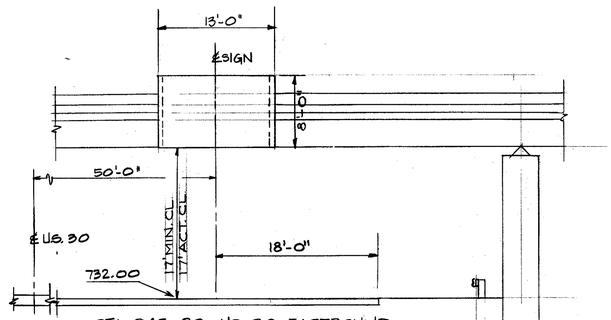


STA. 969+50 - U.S. 30 EASTBOUND
TC-12.30 DES. 6 ARM = 26'-0"

8'-0" X 15'-0" = 120 SQ. FT.
Nº OF BRACKETS = 3, HEIGHT = 8'-0" - TC-22.20
BRACKET & SUPPORT ARM SPACING:
14 5/8", 75 3/8", 75 3/8", 14 5/8"
FIXTURES - 2@ 3'-0", 6'-0", 3'-0"

I.D. Nº COL.-30-

SIGN S-75

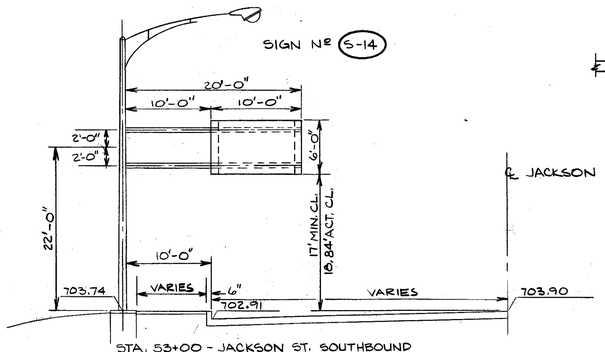


STA. 945+30 US 30 EASTBOUND
TC-18.26 DES. Nº7 32° 29' 29" SKEW

8'-0" × 13'-0" = 104 SQ. FT.
Nº OF BRACKETS = 3, HEIGHT = 8'-0" - TC-22.20
BRACKET & SUPPORT ARM SPACING:
6", 72", 72", 6"
FIXTURES - 2 @ 3'-6", 6'-0", 3'-6"

I.D. Nº COL. 30-

SIGN Nº S-14

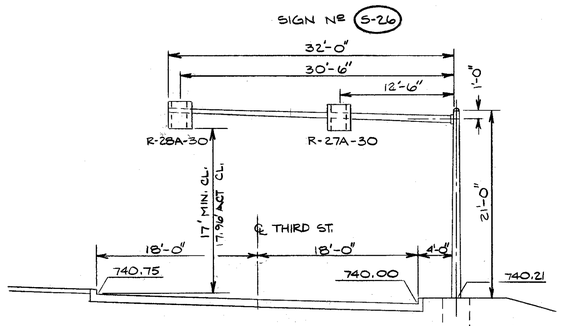


STA. 53+00 - JACKSON ST. SOUTHBOUND
TC-12.30 DES. 4 (MOD.) ARM = 20'-0"

6'-0" X 10'-0" = 60 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 6'-0" - TC-22.20
BRACKET & SUPPORT ARM SPACING
10 3/8", 99 3/8", 10 1/4"
FIXTURES - 1 @ 5'-0", 5'-0"

I.D. Nº COL. 30-

SIGN Nº S-26



STA. 13+34 THIRD ST. WESTBOUND
TC-16.20 DES. 3 ARM = 32'-0"

I.D. Nº COL.-30-

OVERHEAD SIGN DETAILS

AA B/P

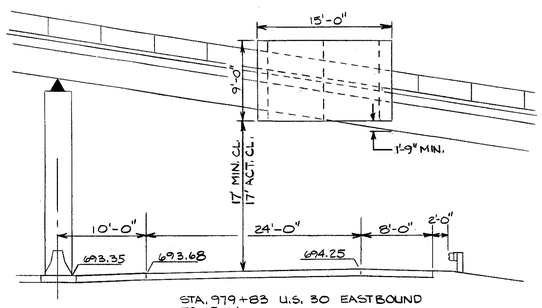
CALC. BY J.L.B. DATE 9-1-83
CHK'D BY J.W.Z. DATE 10-18-83

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
	5	OHIO		

267
362

COL-30-35.29

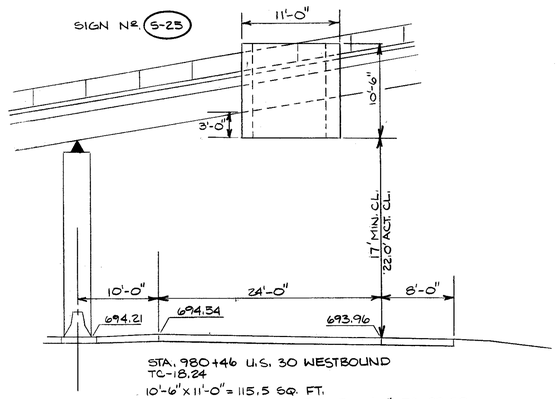
SIGN Nº S-21



STA. 979+83 U.S. 30 EASTBOUND
TC-18.24
9'-0" X 15'-0" = 135 SQ. FT.
Nº OF BRACKETS = 3, HEIGHT 9'-0" - TC-22.20
BRACKET & SUPPORT ARM SPACING:
14 5/8", 75 3/8", 75 3/8", 14 5/8"
FIXTURES - 2 @ 4'-6", 6'-0", 4'-6"

I.D. Nº. COL. - 30-

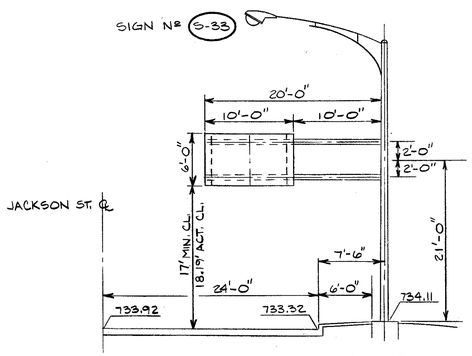
SIGN Nº S-25



STA. 980+46 U.S. 30 WESTBOUND
TC-18.24
10'-6" X 11'-0" = 115.5 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 10'-6" - TC-22.20
BRACKET & SUPPORT ARM SPACING
16 3/8", 99 3/8", 16 1/4"
FIXTURES - 1 @ 5'-6", 5'-6"

I.D. Nº COL. 30

SIGN Nº S-33



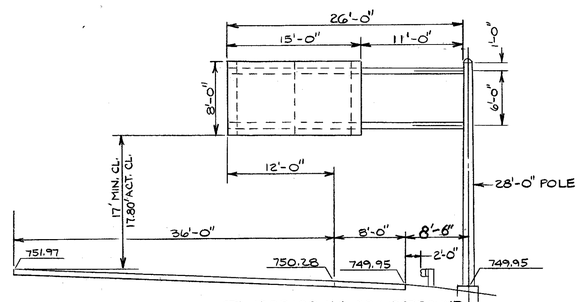
STA. 50+38 JACKSON ST. SOUTHBOUND
TC-12.30 DES. 4 ARM = 20'-0"

"a"
6'-0" X 10'-0" = 60 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 6'-0" - TC-22.10
BRACKET & SUPPORT ARM SPACING:
10 3/8", 99 3/8", 10 1/4"
FIXTURES - 1 @ 5'-0", 5'-0"

"b"
6'-0" X 10'-0" = 60 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 6'-0" - TC-22.20
BRACKET & SUPPORT ARM SPACING:
10 3/8", 99 3/8", 10 1/4"
FIXTURES - 1 @ 5'-0", 5'-0"

I.D. Nº COL. 30

SIGN Nº S-74



STA. 1008+00 U.S. 30 WESTBOUND
TC-12.30 DES. 6 ARM = 26'-0"
8'-0" X 15'-0" = 120 SQ. FT.
Nº OF BRACKETS = 3, HEIGHT = 8'-0" - TC-22.20
BRACKET & SUPPORT ARM SPACING:
14 5/8", 75 3/8", 75 3/8", 14 5/8"
FIXTURES - 2 @ 4'-6", 6'-0", 4'-6"

I.D. Nº COL. 30

OVERHEAD SIGN DETAILS

38720

AA B/P

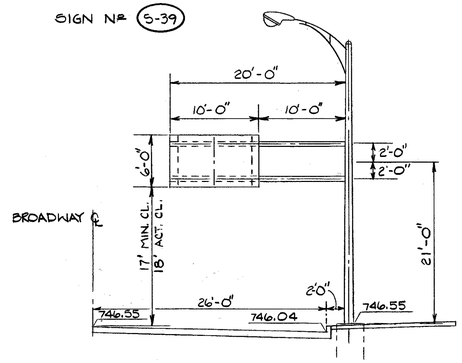
CALC. BY J.L.B. DATE 9-1-83
CHK'D BY J.W.Z. DATE 10-18-83

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
	5	OHIO		

268
362

COL-30-35.29

SIGN Nº (S-39)



STA. 42+70 BROADWAY SOUTHBOUND
TC-12.30 DES. 4 ARM = 20'-0"

"a"

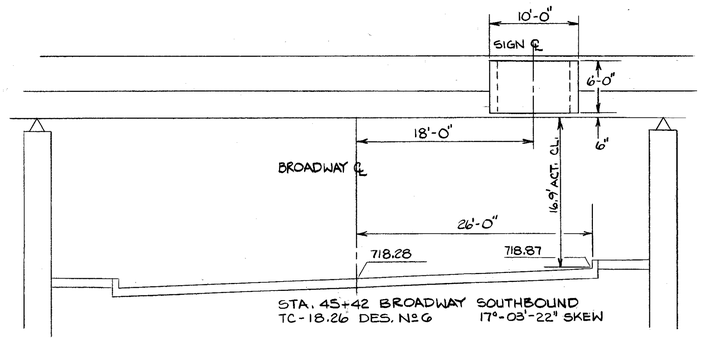
6'-0" x 10'-0" = 60 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 6'-0", TC-22.20
BRACKET & SUPPORT ARM SPACING:
10 3/8", 99 3/8", 10 1/4"
FIXTURES - 1 @ 5'-0", 5'-0"

"b"

6'-0" x 10'-0" = 60 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 6'-0", TC-22.20
BRACKET & SUPPORT ARM SPACING:
10 3/8", 99 3/8", 10 1/4"
FIXTURES - 1 @ 5'-0", 5'-0"

I.D. Nº COL.-30-

SIGN Nº (S-42)

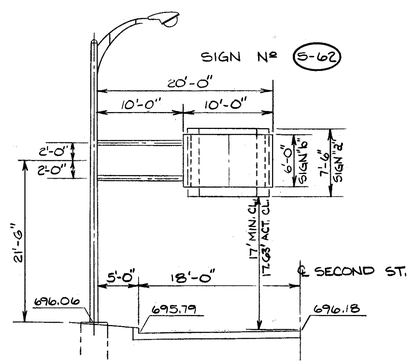


STA. 45+42 BROADWAY SOUTHBOUND
TC-18.26 DES. Nº 6 17°-03'-22" SKEW

6'-0" x 10'-0" = 60 SQ. FT.
Nº OF BRACKETS = 2 HEIGHT = 6'-0", TC-22.20
BRACKET & SUPPORT ARM SPACING:
10 3/8", 99 3/8", 10 1/4"
FIXTURES - 1 @ 5'-0", 5'-0"

I.D. Nº COL.-30-

SIGN Nº (S-62)



STA. 23+77 SECOND ST. EASTBOUND
TC-12.30 DES. 4 ARM = 20'-0"

"a"

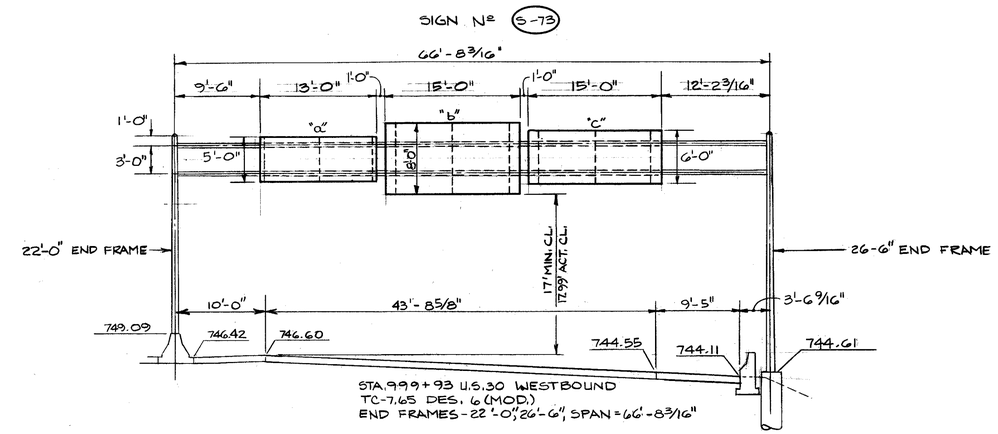
7'-6" x 9'-0" = 67.5 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 7'-6", TC-22.20
BRACKET & SUPPORT ARM SPACING:
16 3/8", 75 3/8", 16 1/4"
FIXTURE - 1 @ 4'-6", 4'-6"

"b"

6'-0" x 10'-0" = 60 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 6'-0" TC-22.20
BRACKET & SUPPORT ARM SPACING:
10 3/8", 99 3/8", 10 1/4"
FIXTURE - 1 @ 5'-0", 5'-0"

I.D. Nº COL.-30-

SIGN Nº (S-73)



STA. 999+93 U.S. 30 WESTBOUND
TC-7.65 DES. 6 (MOD.)
END FRAMES - 22'-0", 26'-6", SPAN = 66'-8 3/16"

"a"

5'-0" x 13'-0" = 65 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 5'-0", TC-22.20
BRACKET & SUPPORT ARM SPACING:
6', 72", 72", 6"
FIXTURES - 2 @ 3'-6", 6'-0", 3'-6"

"b"

8'-0" x 15'-0" = 120 SQ. FT.
Nº OF BRACKETS = 3, HEIGHT = 8'-0" TC-22.20
BRACKET & SUPPORT ARM SPACING:
14 5/8", 75 3/8", 75 3/8", 14 5/8"
FIXTURES - 2 @ 4'-6", 6'-0", 4'-6"

"c"

6'-0" x 15'-0" = 90 SQ. FT.
Nº OF BRACKETS = 2, HEIGHT = 6'-0" TC-22.20
BRACKET & SUPPORT ARM SPACING:
14 5/8", 75 3/8", 14 5/8"
FIXTURES - 2 @ 4'-6", 6'-0", 4'-6"

I.D. Nº COL-30-

OVERHEAD SIGN DETAILS

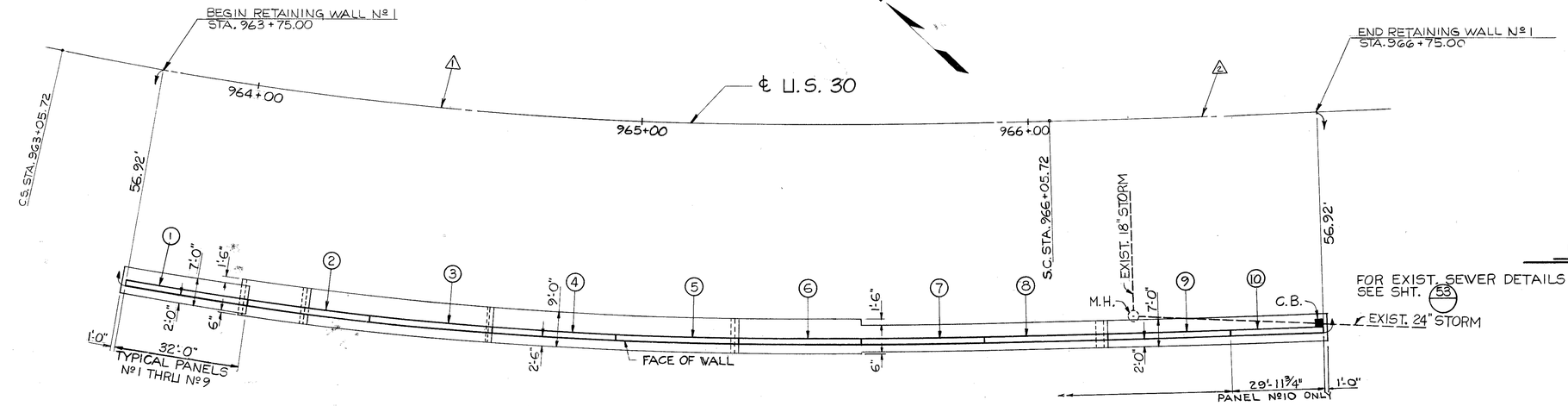
8/26

AA B/P 200 2-79 60868e

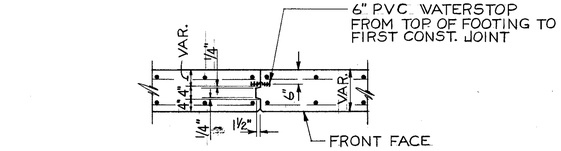
FHWA REGION	STATE	PROJECT	
5	OHIO		

COL - 30 - 35.29

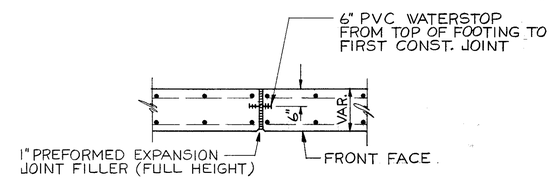
269
362



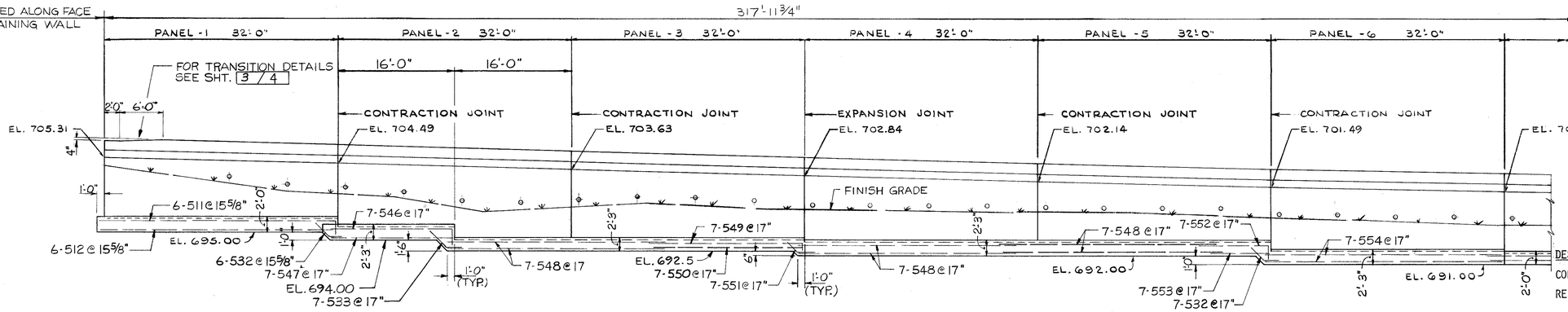
PLAN

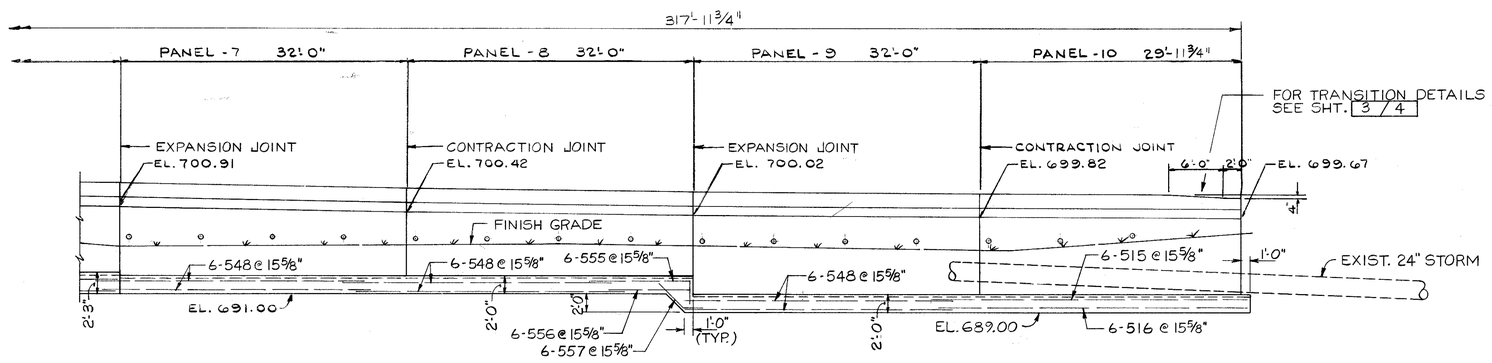


CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL





ELEVATION

NOTES

1. FOR ESTIMATED QUANTITIES, SEE SHEET 3/4.

DESIGN DATA

CONCRETE CLASS C: COMPRESSIVE STRENGTH 4000 PSI

REINFORCING STEEL: ASTM A615, A616, OR A 617 - GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

DESIGN ASSUMPTIONS

COEFFICIENT OF FRICTION	F =	0.45
EQUIVALENT FLUID WEIGHT (PASSIVE)	Wp =	120 LBS./cu. FT.
UNIT SOIL WEIGHT	W =	120 LBS./ cu. FT.
ANGLE OF INTERNAL FRICTION	Ø =	34°
EFFECTIVE DEPTH	H_1 =	11.7' FOR PANELS 2 THRU 6 10.0' FOR PANELS 1 AND 8 THRU 10
SURCHARGE DEPTH	H_1 =	2.0'

FOUNDATION BEARING PRESSURE

RETAINING WALL NO. 1 FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM BEARING PRESSURE OF 1.5 TONS PER SQ. FT.

GPD

1/4

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

PLAN & ELEVATION RETAINING WALL Nº 1

PROJECT Nº COL-30-35.29

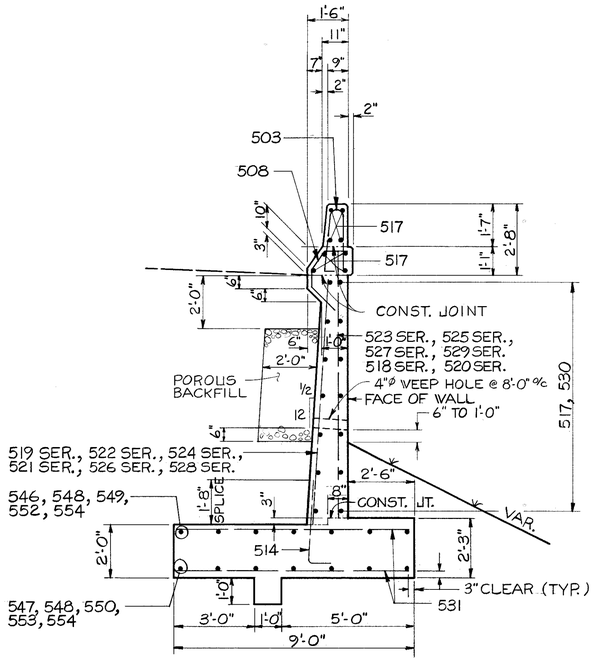
STA. 963+75.00 TO STA. 966+75.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	R.L.W.		JRS	RGH	1-2-85	

AA B/Pa 73202

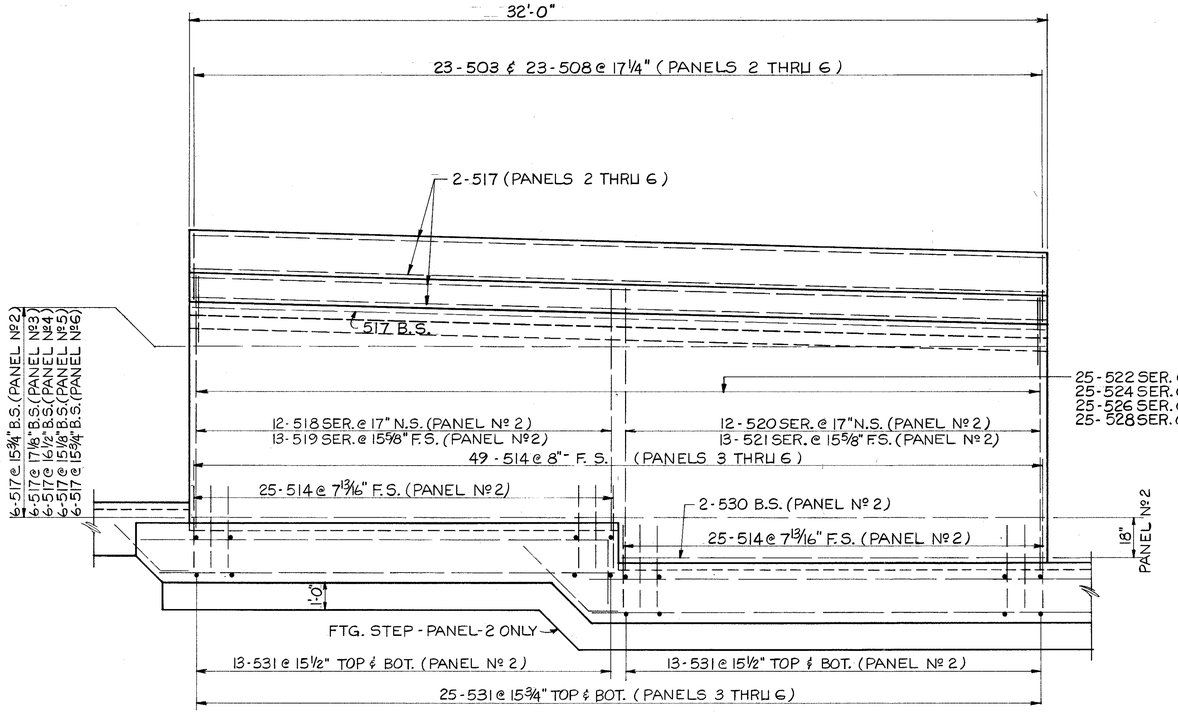
OHIO	270
FHWA REGION 5	362

COL-30-35.29



TYPICAL SECTION

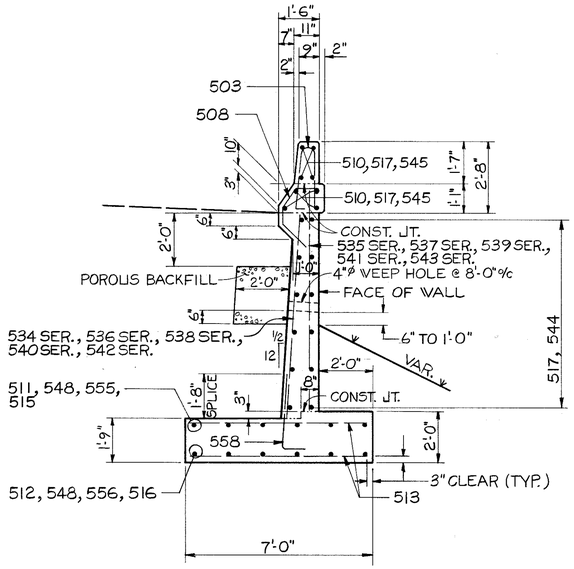
PANELS Nº 2 THRU Nº 6



ELEVATION – PANELS Nº 2 THRU Nº 6

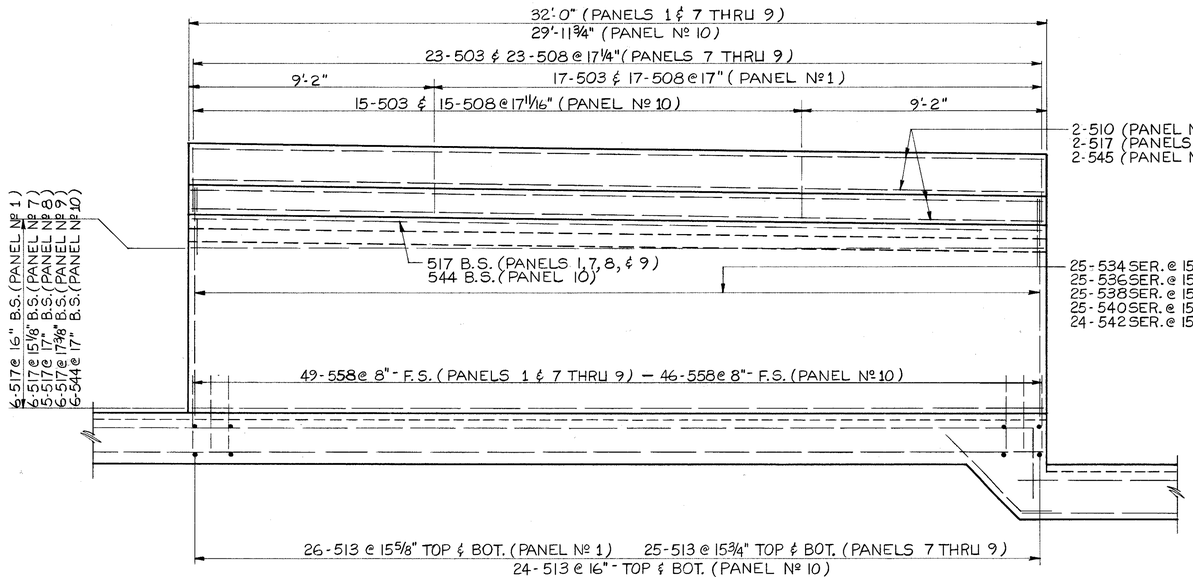
NOTES

1. PREFIX "IRW" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR RETAINING WALL NO. 1. SEE REINFORCING SCHEDULE.
2. MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3. ABBREVIATIONS:
   - N.S. = NEAR SIDE
   - F.S. = FAR SIDE
   - B.S. = BOTH SIDES
4. FOR PARAPET TRANSITION DETAILS, SEE SHT. 3/4



TYPICAL SECTION

PANELS Nº 1 AND Nº 7 THRU Nº 10



ELEVATION – PANELS Nº 1 AND Nº 7 THRU Nº 10

GPD

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

2/4

DETAILS RETAINING WALL Nº 1

PROJECT Nº COL-30-35.29

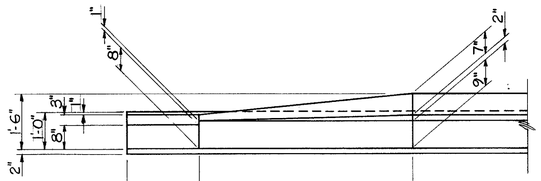
STA. 963+75.00 TO STA. 966+75.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JRS	R.L.W.		KSJ	RGH	3-12-84	

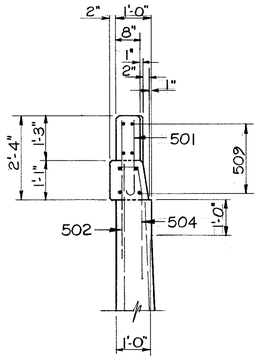
AA B/P# 73202

CALC. BY DATE		OHIO	271
CHKD. BY DATE		FHWA REGION 5	362

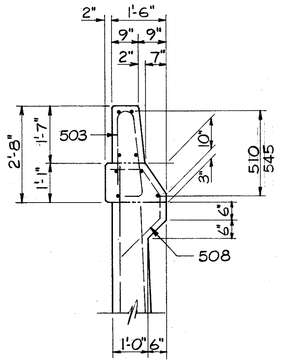
COL - 30 - 35.29



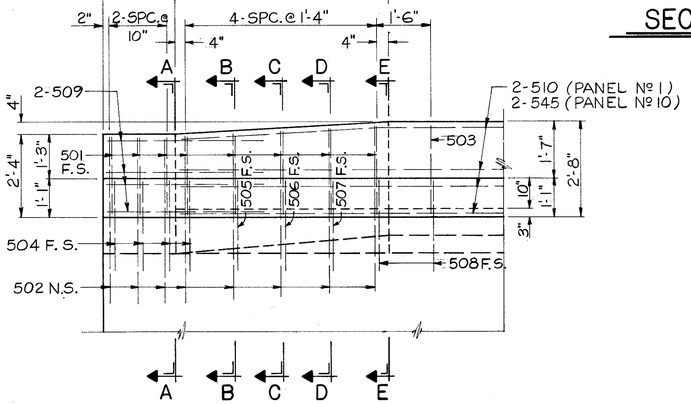
PLAN



SECTION A-A

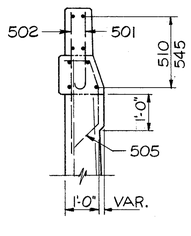


SECTION E-E

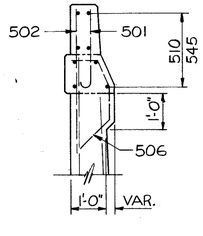


ELEVATION — TRANSITION DETAIL

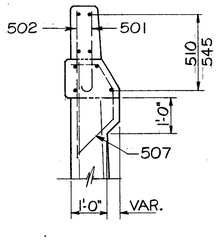
PANEL Nº 1 SHOWN, PANEL 10 SIMILAR BUT OPPOSITE HAND



SECTION B-B



SECTION C-C



SECTION D-D

NOTES:

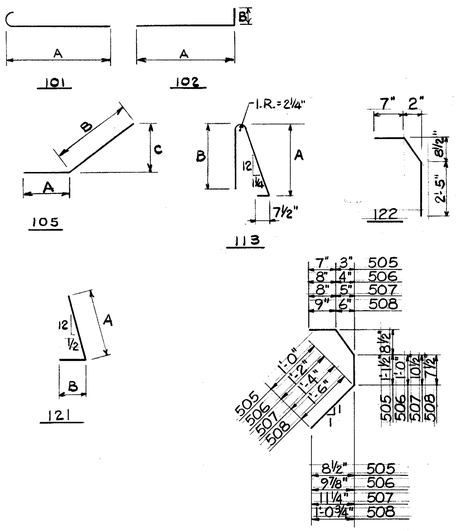
BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT AND ALPHABETICAL LETTER INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES INDICATES THE BAR SIZE NUMBER.

EXAMPLE: IRW 501
- NO. 5 SIZE BAR
- LOCATION = RETAINING WALL Nº 1

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT

REINFORCING STEEL SAMPLES:
REFER TO CMS SECTIONS 106.03, 700, 709.01 THRU 709.05 AND 709.08. SUFFICEINT ADDITIONAL STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURE BY ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.

STANDARD BAR TYPES



ESTIMATED QUANTITIES - RETAINING WALL Nº 1

ITEM EXT.	ITEM	TOTAL	UNIT	DESCRIPTION	RETAINING WALL	GENERAL
11100	503	LUMP	L.S.	COFFERDAMS, CRIBS AND SHEETING		LUMP
21100	503	846	C.Y.	UNCLASSIFIED EXCAVATION	846	
15400	509	24,478	LB.	REINFORCING STEEL, GRADE 60	24,478	
46500	511	198	C.Y.	CLASS C CONCRETE, FOOTINGS	198	
46000	511	162	C.Y.	CLASS C CONCRETE, RETAINING WALLS	162	
13600	516	46	S.F.	1" PREFORMED EXPANSION JOINT FILLER	46	
30501	516	77	L.F.	PVC WATERSTOP, AS PER PLAN	77	
21100	518	53	C.Y.	POROUS BACKFILL	53	

NOTES

1. FOR REINFORCING SCHEDULE, SEE SHT. 4/4
2. FOR ADDITIONAL NOTES, SEE SHT. 2/4

3/4

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

DETAILS & REINFORCING SCHEDULE RETAINING WALL Nº 1

PROJECT Nº COL-30-35.29

STA. 963+75.00 TO STA. 966+75.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JRS	R.L.W.		KSJ	RAH	3-12-84	

RETAINING WALL NO.1

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1RW501	16	2' 8''	101	2' 1''				45
1RW502	16	4' 2''	ST					70
1RW503	216	5' 4''	113	2' 5''	2' 2''			1,202
1RW504	8	3' 9''	122					31
1RW505	2	3' 5''	123					7
1RW506	2	3' 7''	123					7
1RW507	2	3' 7''	123					7
1RW508	218	3' 7''	123					815
1RW509	16	4' 4''	ST					72
1RW510	8	29' 8''	ST					248
1RW511	6	34' 3''	102	32' 7''	1' 9''			214
1RW512	6	32' 7''	ST					204
1RW513	250	6' 6''	ST					1,695
1RW514	246	4' 2''	121	3' 5''	0'10''			1,069
1RW515	6	36' 2''	ST					226
1RW516	6	35' 5''	ST					222
1RW517	188	31' 8''	ST					6,209
1RW518S	1 SET OF 12	8' 9'' TO 9' 2''	ST				0' 0 1/2''	112
1RW519S	1 SET OF 13	7'11'' TO 8' 4''	ST				0' 0 3/8''	110
1RW520S	1 SET OF 12	9'10'' TO 10' 3''	ST				0' 0 1/2''	126
1RW521S	1 SET OF 13	9' 0'' TO 9' 5''	ST				0' 0 3/8''	125
1RW522S	1 SET OF 25	8' 2'' TO 9' 0''	ST				0' 0 3/8''	224
1RW523S	1 SET OF 23	9' 0'' TO 9'10''	ST				0' 0 1/2''	226
1RW524S	1 SET OF 25	8' 0'' TO 8' 8''	ST				0' 0 3/8''	217
1RW525S	1 SET OF 23	8'10'' TO 9' 6''	ST				0' 0 3/8''	220
1RW526S	1 SET OF 25	7' 4'' TO 8' 0''	ST				0' 0 3/8''	200
1RW527S	1 SET OF 23	8' 2'' TO 8'10''	ST				0' 0 3/8''	204
1RW528S	1 SET OF 25	7' 9'' TO 8' 4''	ST				0' 0 1/4''	210
1RW529S	1 SET OF 23	8' 7'' TO 9' 2''	ST				0' 0 3/8''	213
1RW530	2	15' 8''	ST					33
1RW531	252	8' 6''	ST					2,234
1RW532	13	3'11''	105	1' 8''	2' 3''	1' 7''		53
1RW533	7	4' 7''	105	1' 8''	2'11''	2' 1''		33

RETAINING WALL NO.1

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1RW534S	1 SET OF 25	7' 7'' TO 8' 5''	ST				0' 0 3/8''	209
1RW535S	1 SET OF 23	8' 5'' TO 9' 2''	ST				0' 0 3/8''	211
1RW536S	1 SET OF 25	7' 6'' TO 8' 0''	ST				0' 0 1/4''	202
1RW537S	1 SET OF 23	8' 4'' TO 8'10''	ST				0' 0 1/4''	206
1RW538S	1 SET OF 25	7' 1'' TO 7' 6''	ST				0' 0 1/4''	190
1RW539S	1 SET OF 23	7'11'' TO 8' 4''	ST				0' 0 1/4''	195
1RW540S	1 SET OF 25	8'11'' TO 9' 1''	ST				0' 0 1/8''	235
1RW541S	1 SET OF 23	9' 9'' TO 9'11''	ST				0' 0 1/8''	236
1RW542S	1 SET OF 24	8' 9'' TO 8'11''	ST				0' 0 1/8''	221
1RW543S	1 SET OF 21	9' 7'' TO 9' 9''	ST				0' 0 1/8''	212
1RW544	14	29' 7''	ST					432
1RW545	8	27' 8''	ST					231
1RW546	7	19' 0''	102	16'10''	2' 3''			139
1RW547	7	16'10''	ST					123
1RW548	78	30' 0''	ST					2,441
1RW549	7	22' 5''	102	21' 3''	1' 3''			164
1RW550	7	20' 6''	ST					150
1RW551	7	3' 2''	105	1' 8''	1' 6''	1' 1''		23
1RW552	7	11' 4''	102	9' 8''	1' 9''			83
1RW553	7	8' 2''	ST					60
1RW554	14	32' 9''	ST					478
1RW555	6	13'11''	102	11' 3''	2' 9''			87
1RW556	6	9' 0''	ST					56
1RW557	6	5' 4''	105	1' 8''	3' 8''	2' 7''		33
1RW558	242	3'11''	121	3' 2''	0'10''			978
							TOTAL	24,478

FOR NOTES AND STANDARD BAR TYPES, SEE SHT 3/4

4/4

GPD
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

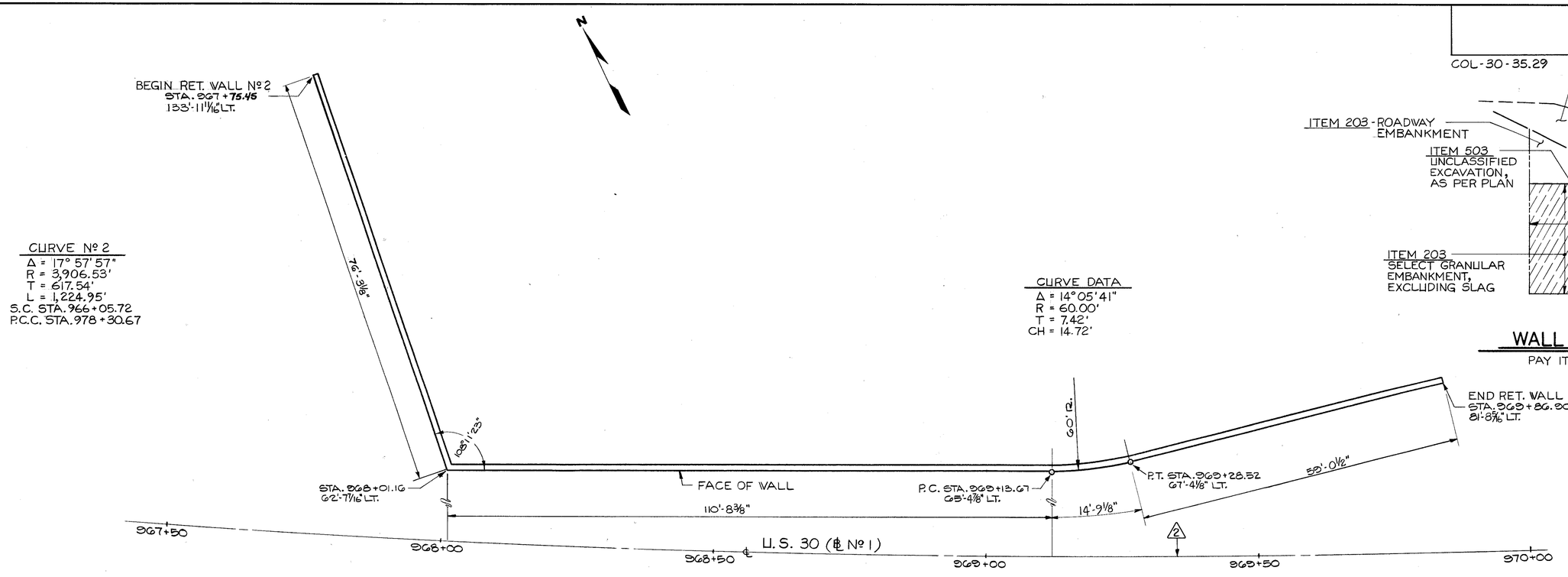
REINFORCING SCHEDULE

PROJECT Nº COL-30-35.29

STA. 963+75.00 TO STA. 966+75.00

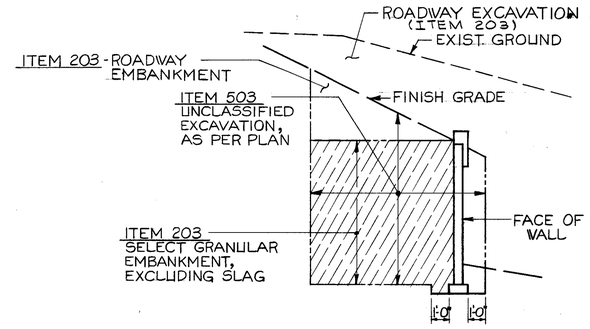
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JRS	RLW		KSJ	RDH	1-2-85	

COL-30-35.29



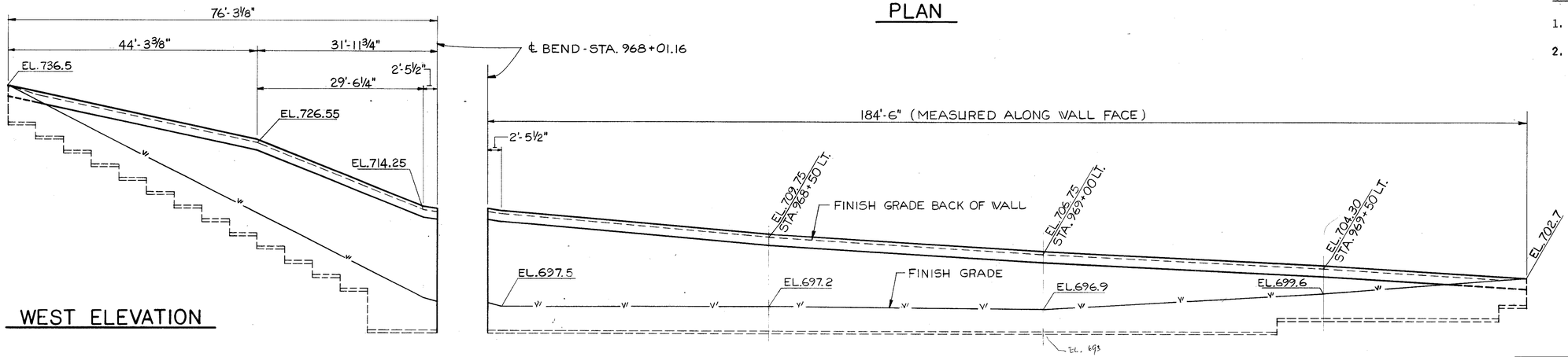
CURVE Nº 2
Δ = 17° 57' 57"
R = 3,906.53'
T = 617.54'
L = 1,224.95'
S.C. STA. 966+05.72
P.C.C. STA. 978+30.67

CURVE DATA
Δ = 14° 05' 41"
R = 60.00'
T = 7.42'
CH = 14.72'



WALL SECTION
PAY ITEM LIMITS

PLAN



WEST ELEVATION

NOTES

1. FOR REINFORCED EARTH WALL DETAILS, SEE SHTS. 2/5 AND 5/5
2. FOR GENERAL NOTES AND COPING DETAILS, SEE SHT. 4/5

ESTIMATED QUANTITIES - RETAINING WALL Nº 2

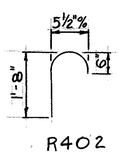
ITEM EXT.	ITEM	TOTAL	UNIT	DESCRIPTION	RETAINING WALL	GENERAL
35000	203	2,016	C.Y.	SELECT GRANULAR EMBANKMENT, EXCLUDING SLAG ▲	2,016	
11100	503	LUMP	L.S.	COFFER DAMS, CRIBS, AND SHEETING		LUMP
21101	503	2,284	C.Y.	UNCLASSIFIED EXCAVATION, AS PER PLAN ▲	2,284	
13500	SPECIAL	3,413	S.F.	REINFORCED EARTH WALL ▲	3,413	

▲SEE PROPOSAL NOTE

SOUTH ELEVATION

*COPING REINFORCING STEEL				
MARK	NO.	LENGTH	WEIGHT	SHAPE
R401	108	2'-0"	144	ST.
R402	108	2'-4"	168	B.T.
R403	54	9'-6"	343	ST.

*Include with item Special "Reinforced Earth Wall" for payment.



R402

REVISED 8-30-90

GPD
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

1/5

PLAN & ELEVATION
RETAINING WALL Nº 2

PROJECT Nº COL-30-35.29

STA. 967+73.56 TO STA. 969+86.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
K.S.J.	R.L.W.		JRS	RAH	1-2-85	

ADM'V REG	STATE	PROJECT	
5	OHIO		

274
362

COL-30-35.29

reinforced earth®

NORTHEASTERN DIVISION 2010 CORPORATE RIDGE, SUITE 1000, McLEAN, VA. 22102. (703) 821-1175

GENERAL NOTES

DESIGN CRITERIA

■ 1. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIAL SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR REINFORCED EARTH WALLS.

■ 2. ASSUMED SOILS CHARACTERISTICS:

SELECT GRANULAR BACKFILL

ϕ = 34° degrees, c = 0 p.s.f., γ = 125 p.c.f.

RANDOM BACKFILL

ϕ = 30° degrees, c = 0 p.s.f., γ = 125 p.c.f.

FOUNDATION MATERIAL

ϕ = 30° degrees, c = 0 p.s.f.

IF THE ACTUAL CHARACTERISTICS OF THE SOIL MATERIALS DIFFER FROM THOSE ABOVE, THE REINFORCED EARTH COMPANY SHOULD BE NOTIFIED PRIOR TO CONSTRUCTION TO EVALUATE THE NEED FOR REDESIGN OF THE WALL.

■ 3. THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE.

■ 4. ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE REINFORCED EARTH VOLUME, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.

■ 5. REINFORCING STRIPS FOR REINFORCED EARTH WALLS SHALL BE 50MM WIDE AND 4MM THICK AND SHALL CONFORM TO THE PHYSICAL AND MECHANICAL PROPERTIES OF ASTM A-572. GRADE 65.

WALL CONSTRUCTION

■ 1. STATIONS SHOWN ARE ALONG CENTERLINE OF ROADWAY.

■ 2. REINFORCED EARTH WALLS, IN CURVES, WILL FORM A SERIES OF SHORT CHORDS OF 4.92' EACH TO MATCH DESIRED WALL ALIGNMENT.

☐ 3. FOR LOCATION AND ALIGNMENT OF REINFORCED EARTH WALLS, SEE CONTRACT DRAWINGS.

☐ 4. MANHOLES AND DROP INLETS SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.

☐ 5. PILES WITHIN THE REINFORCED EARTH VOLUME SHALL BE DRIVEN PRIOR TO THE CONSTRUCTION OF THE REINFORCED EARTH WALL.

■ 6. BACKFILL MATERIAL SHALL BE COMPACTED, IN ACCORDANCE WITH THE SPECIFICATIONS FOR REINFORCED EARTH WALLS, TO A LEVEL OF 2" (±) ABOVE THE TIE STRIPS EMBEDDED IN THE PANELS. INSTALLATION OF REINFORCING STRIPS SHALL BE PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL.

■ 7. COMPACTION AND OPERATION EQUIPMENT SHALL BE KEPT A MINIMUM DISTANCE OF 3'-0" FROM BACK FACE OF REINFORCED EARTH PANEL. COMPACTION WITHIN 3'-0" OF THE REINFORCED EARTH PANELS SHALL BE ACHIEVED WITH AT LEAST THREE (3) PASSES OF A LIGHTWEIGHT MECHANICAL TAMPER, ROLLER OR VIBRATORY SYSTEM.

■ 8. FOR STRUCTURES IN EXCESS OF 20' IN HEIGHT, THE FINISHED GRADE IN FRONT OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS A HEIGHT OF 20'. FINISHED GRADE BACKFILL SHALL BE COMPACTED TO 95 % OF ASTM D-698, METHODS 'C' OR 'D', UNLESS OTHERWISE DIRECTED BY ENGINEER.

☐ 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF GUARDRAIL POSTS BEHIND THE REINFORCED EARTH PANELS, PRIOR TO PLACEMENT OF THE TOP LAYER OF REINFORCING STRIPS. INDIVIDUAL STRIPS MAY BE SKEWED, IF AUTHORIZED BY THE REINFORCED EARTH COMPANY, PRIOR TO PLACEMENT. ANY DAMAGE DONE TO THE REINFORCING STRIPS DUE TO THE INSTALLATION OF THE GUARDRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

■ 10. IF STRUCTURES WITHIN THE REINFORCED EARTH VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCING STRIPS, THE CONTRACTOR SHALL NOTIFY THE REINFORCED EARTH COMPANY TO DETERMINE THE EFFECT ON THE DESIGN OF THE WALL BY SKEWING THESE STRIPS.

■ 11. ALL DETAILING AND CHECKING OF REINFORCING STEEL FOR ANY C.I.P. CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

MATERIALS NOTES

■ 1. NOMINAL STRIP LENGTHS

THE REINFORCING STRIP LENGTHS SHOWN ON THE PLANS, MEASURED FROM BACK FACE OF PANEL, ARE THE NOMINAL LENGTHS REQUIRED BY CALCULATION. THE ACTUAL FABRICATED STRIP LENGTHS ARE OFTEN LONGER (UP TO 6") DUE TO MANUFACTURING TOLERANCES. THE REQUIRED HORIZONTAL LIMIT OF GRANULAR BACKFILL IS EQUAL TO THE NOMINAL STRIP LENGTH. ADDITIONAL GRANULAR BACKFILL BEYOND THE STRIP LENGTH IS NOT REQUIRED BY CALCULATION.

■ 2. SELECT BACKFILL QUANTITY

THE SELECT BACKFILL QUANTITY FURNISHED BY THE REINFORCED EARTH COMPANY IS CALCULATED BY MULTIPLYING THE NOMINAL STRIP LENGTHS SHOWN ON THE PLANS (PLUS 0 FT.) BY THEIR TRIBUTARY WALL SURFACE AREA AND CONVERTING THE RESULT TO A NEATLINE CUBIC YARD QUANTITY. THIS INFORMATION IS FURNISHED FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT INTENDED TO REPRESENT THE ACTUAL QUANTITIES REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR MUST CALCULATE HIS OWN EXCAVATION AND BACKFILL QUANTITIES BASED UPON THE SPECIFIC CONDITIONS OF THE PROJECT.

■ 3. PANEL FINISH

THE PRECAST PANELS FOR THIS PROJECT SHALL HAVE A PLAIN STEEL FORM FINISH UNLESS OTHERWISE SPECIFIED.

■ NOTE APPLIES TO THIS PROJECT

☐ NOTE DOES NOT APPLY TO THIS PROJECT

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY.

STATE OF OHIO
EUGENE A. LAMBERSON
E-51228
REGISTERED PROFESSIONAL ENGINEER

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE REINFORCED EARTH COMPANY HAS DESIGNED, AND IS RESPONSIBLE FOR THE INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY, INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER.

REVISED 8-30-90

The Reinforced Earth Company
Corporate Headquarters • Mclean, Virginia
2010 Corporate Ridge Suite 1000 Mclean, Virginia 22102
(703) 821-1175

REV. NO.	DATE	DESCRIPTION

Structure	REINFORCED EARTH WALL
Location	PROJECT Nº COL-30-35.29 Sta. 967+75.45 to Sta.969+85.01 Sta. 987+93.60 to Sta.990+15.00
Owner	OHIO D.O.T.
Drawn By	GMF 7-29-90
Checked By	AJP Date
Contract No.	1325
Drawing Covers	GENERAL NOTES
Drawing No.	1 OF 5
Scale	NONE

F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		

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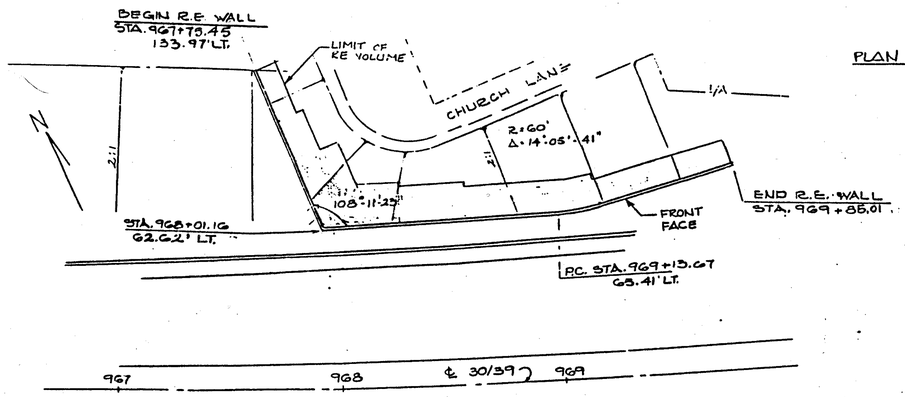
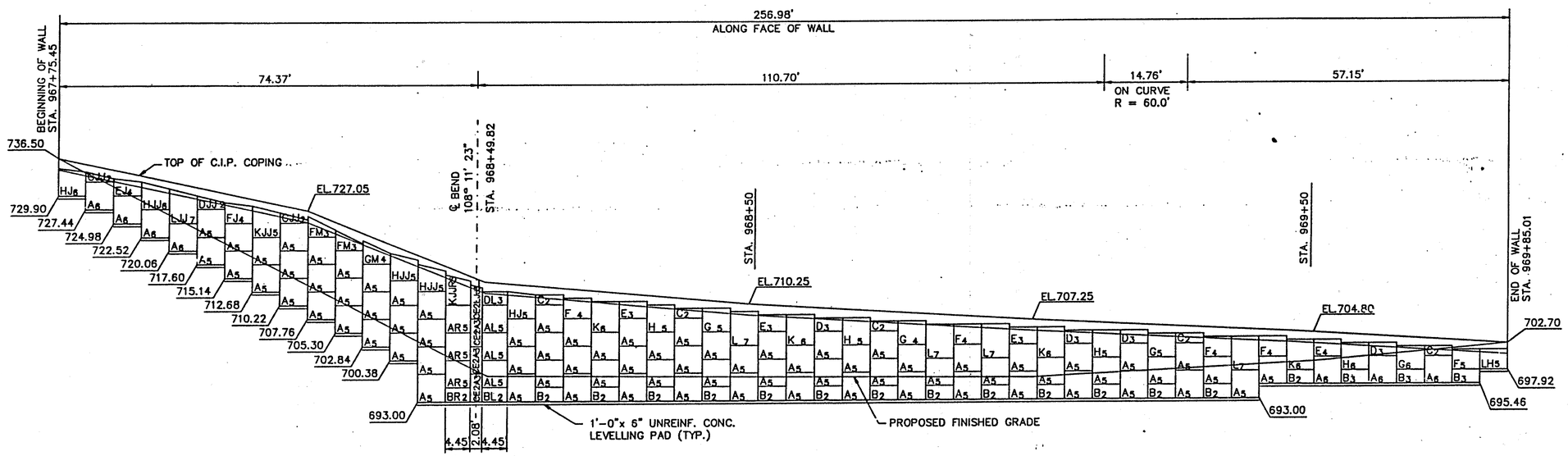
COL-30-35.29



PLAN WALL NO.2
NTS



50 x 4 mm

* MAXIMUM APPLIED BEARING PRESSURE SEE NOTE 3 SHEET 1

SURFACE AREA = 3,413 SQ.FT.
BACKFILL = 2,016 CU.YD.

WALL NO. 2
ELEVATION — FRONT FACE
SCALE : 1" = 10'

NOTE: LENGTH OF LEVELLING PAD IS BASED ON INDIVIDUAL PANEL WIDTHS. ℄ OF PIN TO ℄ OF PIN. USE STEP DETAIL ON SHEET 4 OF 5 TO DETERMINE THE ACTUAL LEVELLING PAD STEP LOCATION.

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY.

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REVISED 8-30-90

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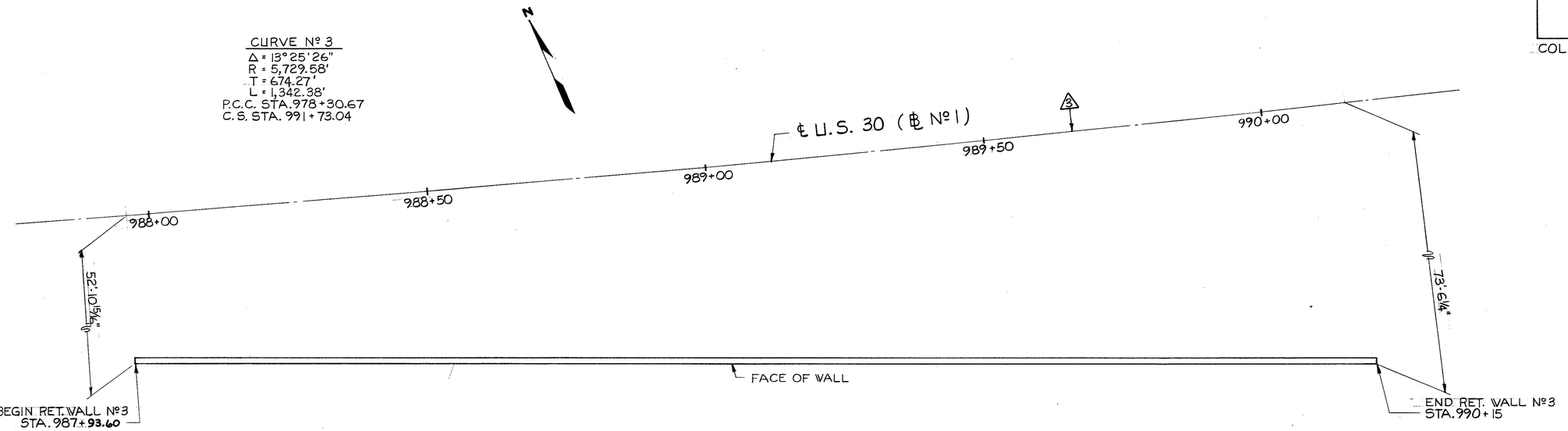
REV. NO.	DATE	DESCRIPTION

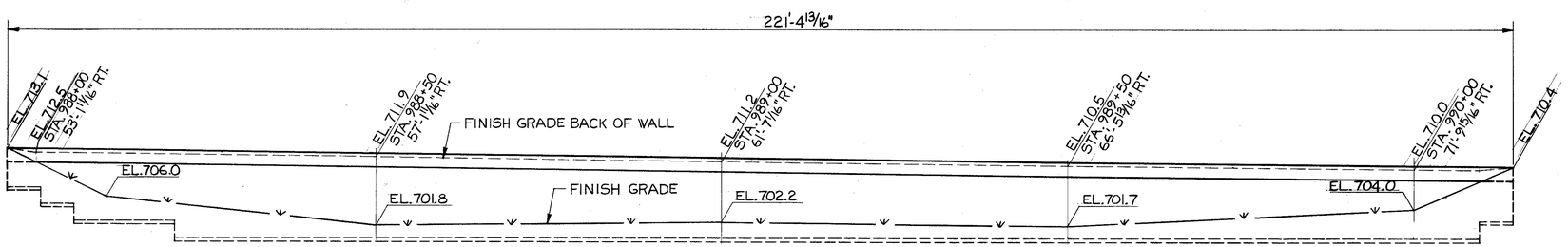
Structure	REINFORCED EARTH WALL
Location	PROJECT Nº COL-30-35.29
	Sta.967+75.45 to Sta.969+85.01
Owner	OHIO D.O.T.
Drawn By GMF	Date 7-29-90
Checked By AF	CONTRACT NO. 1325
DRAWING COVERS ELEVATION	DRAWING No. 2 OF 5
WALL 2	SCALE AS SHOWN

COL-30-35.29

CURVE Nº 3
Δ = 13°25'26"
R = 5,729.58'
T = 674.27'
L = 1,342.38'
P.C.C. STA. 978+30.67
C.S. STA. 991+73.04



PLAN



ELEVATION

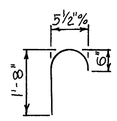
ESTIMATED QUANTITIES - RETAINING WALL Nº 3

ITEM EXT.	ITEM	TOTAL	UNIT	DESCRIPTION	RETAINING WALL	GENERAL
35000	203	849	C.Y.	SELECT GRANULAR EMBANKMENT, EXCLUDING SLAG ▲	849	
11100	503	LUMP	L.S.	COFFER DAMS, CRIBS, AND SHEETING		LUMP
21101	503	290	C.Y.	UNCLASSIFIED EXCAVATION, AS PER PLAN ▲	290	
13500	SPECIAL	2,182	S.F.	REINFORCED EARTH WALL ▲	2,182	

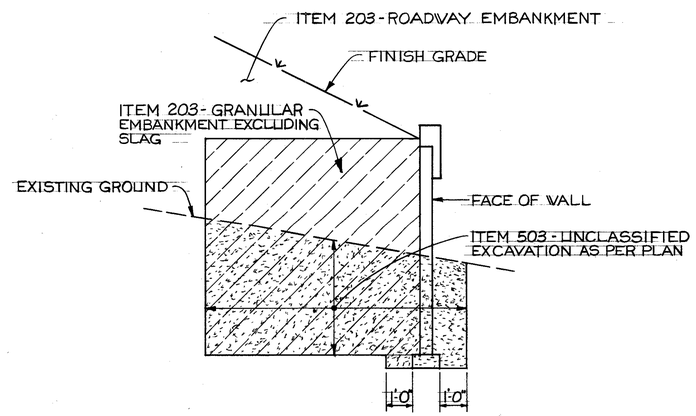
▲SEE PROPOSAL NOTE

*COPING REINFORCING STEEL				
MARK	NO.	LENGTH	WEIGHT	SHAPE
R401	90	2'-0"	120	ST.
R402	90	2'-4"	140	BT.
R403	45	9'-6"	286	ST.

*Include with item Special "Reinforced Earth Wall" for payment.



R402



TYPICAL WALL SECTION

PAY ITEM LIMITS

NOTES

1. FOR REINFORCED EARTH WALL DETAILS, SEE SHTS. 4/5 AND 5/5
2. FOR GENERAL NOTES, SEE SHT. 4/5

REVISED 8-30-90

GPD — GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

3/5

PLAN & ELEVATION
RETAINING WALL Nº 3

PROJECT Nº COL-30-35.29

STA. 987+96.95 TO STA. 990+15.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
K.S.J.	R.L.W.		JRS	R.A.H.	1-2-85	

F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		

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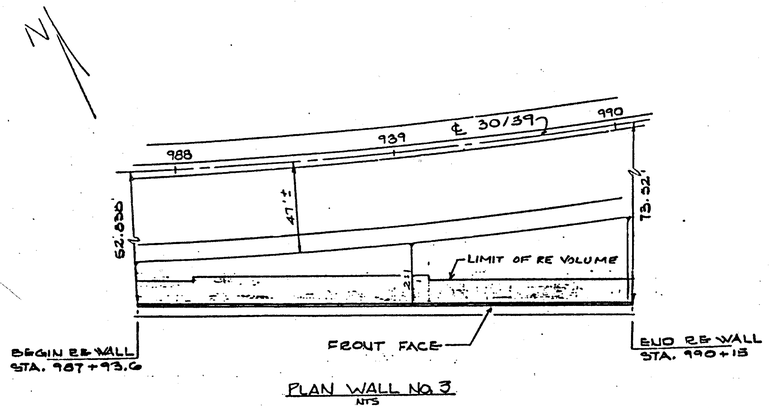
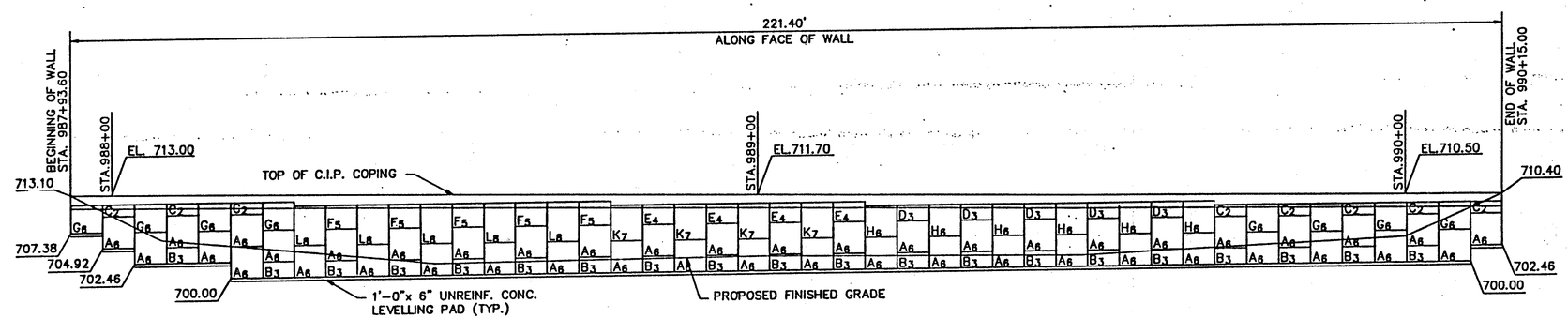
COL-30-35.29



PLAN WALL NO. 3
NTS



WALL NO. 3

ELEVATION – FRONT FACE

SCALE : 1" = 10'

• MAXIMUM APPLIED BEARING PRESSURE
SEE NOTE 3 SHEET 1

SURFACE AREA	= 2,162 SQ.FT.
BACKFILL	= 849 CU.YD.

NOTE: LENGTH OF LEVELLING PAD IS BASED ON INDIVIDUAL PANEL WIDTHS. ℄ OF PIN TO ℄ OF PIN. USE STEP DETAIL ON SHEET 4 OF 5 TO DETERMINE THE ACTUAL LEVELLING PAD STEP LOCATION.

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY.

STATE OF OHIO
EUGENE A. LAMBERSON
E-51228
REGISTERED PROFESSIONAL ENGINEER

REVISED 8-30-90

The Reinforced Earth Company
Corporate Headquarters • Mclean, Virginia
2010 Corporate Ridge Suite 1000 Mclean, Virginia 22102
(703) 821-1175

Structure	REINFORCED EARTH WALL
Location	PROJECT Nº COL-30-35.29
	Sta. 987+93.60 to Sta. 990+15.00
Owner	OHIO D.O.T.
Drawn By GMF	Date 7-89-90
Checked By AP	Date
Drawing Covers	ELEVATION & PLAN
	WALL NO. 3
Contract No.	1325
Drawing No.	3 OF 5
Scale	AS SHOWN

REV. NO.	DATE	DESCRIPTION

F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		

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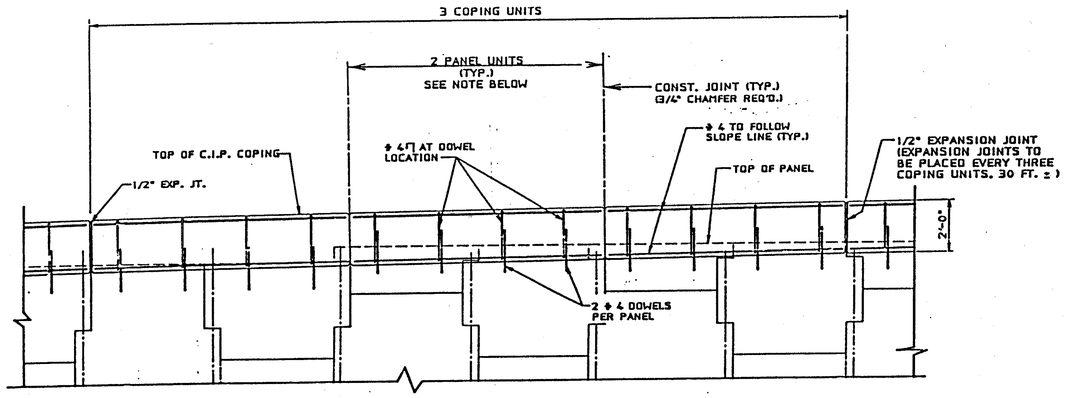
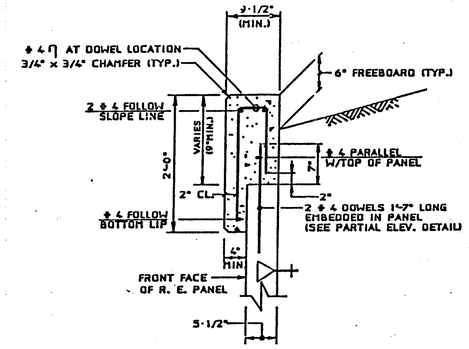
COL-30-35.29

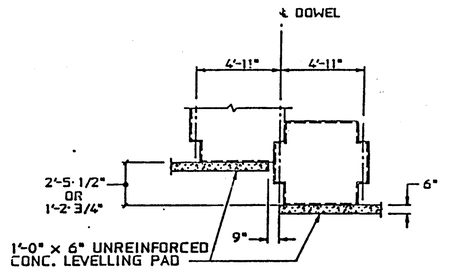


NOTE:
CONST. JT. IN C.I.P. COPING SHALL BE AT 2 PANEL INTERVALS. COPING JOINTS MUST COINCIDE WITH PANEL JOINTS. ON FRONT FACE, WHERE BOTTOM OF 4" LIP INTERSECTS WITH JOINT, REINFORCING STEEL SHALL BE STOPPED 2" SHORT OF EITHER SIDE OF THE CONSTRUCTION JOINTS AND EXPANSION JOINTS.

C.I.P. COPING PARTIAL ELEVATION
SCALE: 3/8" = 1'-0"

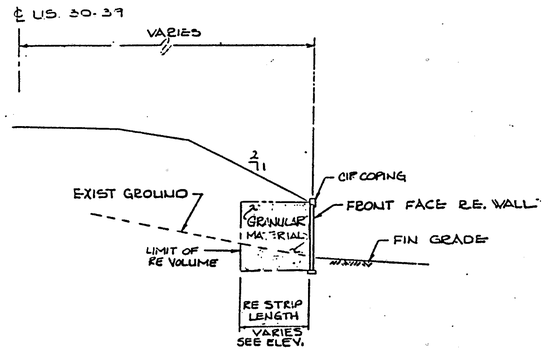


C.I.P. CONC. COPING DETAIL
SCALE: 1" = 1'-0"

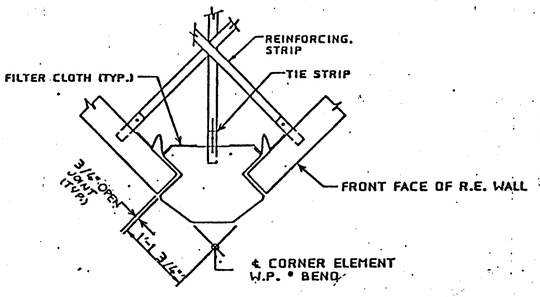


TYPICAL LEVELLING PAD STEP DETAIL
SCALE: 1/4" = 1'-0"

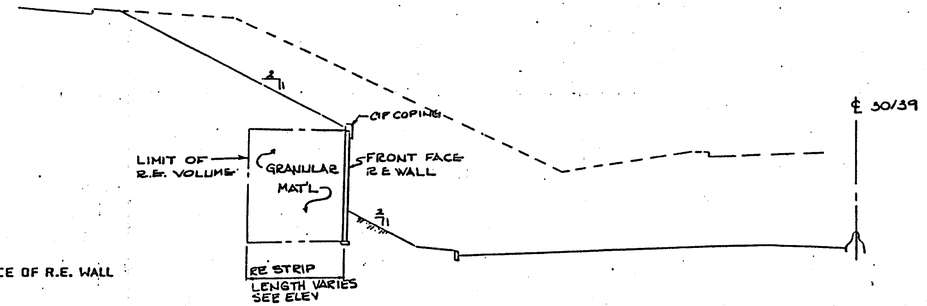
NOTE:
LEVELLING PAD MUST BE POURED SO AS TO HAVE THE TOP OF THE LEVELLING PAD AT THE ELEVATION SHOWN ON THE ELEVATION VIEWS. ALLOWABLE ELEVATION TOLERANCES ARE 0.01'(+) AND 0.02'(-). PRECAST PANEL JOINT FILLER MATERIAL IS NOT PERMITTED BETWEEN PRECAST PANEL AND LEVELLING PAD UNLESS AUTHORIZED IN WRITING BY THE REINFORCED EARTH COMPANY.



TYPICAL SECTION
SCALE: 1" = 10'-0"
WALL NO. 3



TYPICAL CORNER ELEMENT FOR 108° BEND
N.T.S.



SECTION AT STA. 968+50
SCALE: 1"=10'
WALL NO. 2

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY,

STATE OF OHIO
EUGENE A. LAMBERSON
E-51228
REGISTERED PROFESSIONAL ENGINEER

REVISED 8-30-90

The Reinforced Earth Company
Corporate Headquarters · Mclean, Virginia
2010 Corporate Ridge Suite 1000 Mclean, Virginia 22102
(703) 521-1175

Structure	REINFORCED EARTH WALL
Location	PROJECT Nº COL-30-35.29
	Sta.967+75.45 to Sta.969+85.01
	Sta.987+93.60 to Sta.990+15.00
Owner	OHIO D.O.T.
Drawn By GMF	Date 7-29-90
Checked By AP	CONTRACT NO. 1325
DRAWING COVERS: DETAILS AND SECTIONS	DRAWING NO. 4 OF 5
	SCALE AS SHOWN

REV. NO.	DATE	DESCRIPTION

F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		

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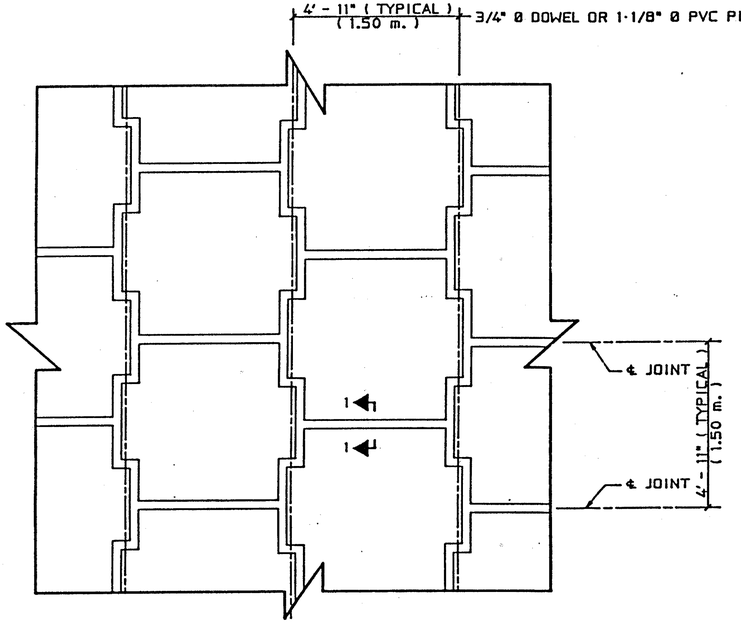
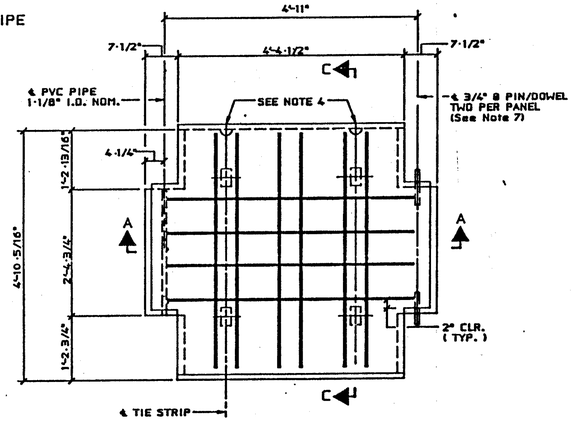
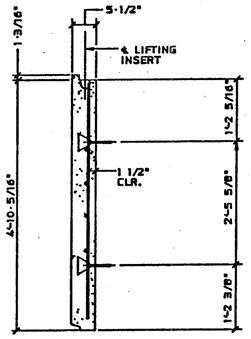
COL-30-35.29



TYPICAL PANEL LAYOUT
PARTIAL ELEVATION - FRONT FACE
SCALE: 1/2" = 1' - 0"



PANEL TYPE "A"
WITH R6 REINFORCEMENT
FRONT VIEW
SCALE = 3/4" = 1' - 0"

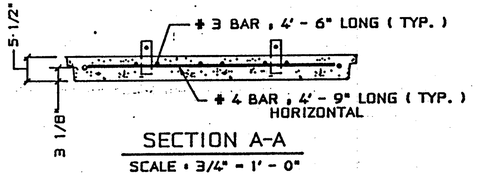


SECTION C-C
SCALE = 3/4" = 1' - 0"

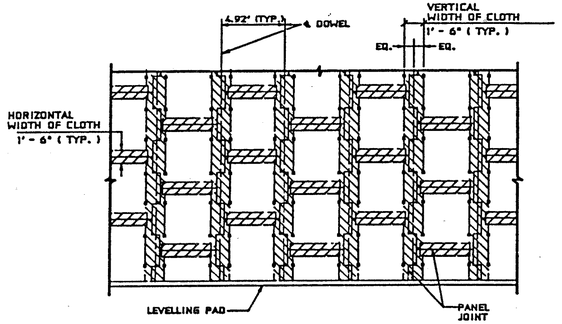
PANEL THICKNESS	REINFORCEMENT DESIGNATION	PANEL REINFORCEMENT A_s(IN²)	MAXIMUM ALLOWABLE HORIZONTAL STRESS AT FACING (KSF)
5½"			
	R6	0.66 VERTICAL 0.78 HORIZONTAL	1.33
	R7	~~1.18 VERTICAL~~ ~~1.77 HORIZONTAL~~	2.56

NOTES :

1. REINFORCING STEEL TO BE A615 GRADE 60 .
2. 3/8" x 3/8" CHAMFER SHALL BE PROVIDED ON ALL EXPOSED EDGES (FRONT FACE ONLY) .
3. ALL PANEL TYPES AND OTHER RELATED ELEMENTS WILL BE DETAILED ON SHOP DRAWINGS .
4. ALL PANELS SHALL HAVE TWO LIFTING INSERTS OF ONE TON CAPACITY EACH .
5. PANEL DESIGN THICKNESS IS 5 1/2" . THICKNESS OF CONCRETE MUST INCREASE TO ACCOMODATE ANY ARCHITECTURAL SURFACE FINISH THAT MAY BE SPECIFIED.
6. ACTUAL PANEL REINFORCEMENT FOR ALL PANEL TYPES ON THIS PROJECT IS DESIGNATED ABOVE . R6 ILLUSTRATED FOR INFORMATION ONLY .
7. EACH 3/4" Ø DOWEL SHALL HAVE A MIN. LENGTH OF 10" . DOWELS MAY BE GALVANIZED STEEL OR PVC ROD . A SINGLE FULL LENGTH DOWEL MAY BE USED AT THE DISCRETION OF THE MANUFACTURER .

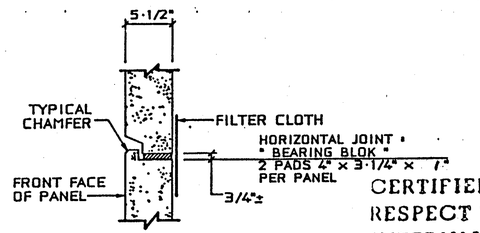


SECTION A-A
SCALE = 3/4" = 1' - 0"

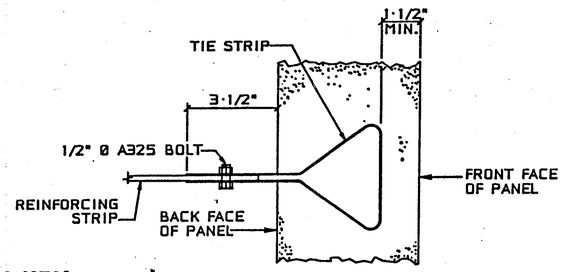


NOTE:
STRIPS OF FILTER CLOTH SHALL BE PLACED ON BACK FACE OF PANEL , OVER PANEL JOINTS . FILTER CLOTH SHALL BE ADHERED TO BACK FACE OF PANELS USING AN ADHESIVE COMPOUND SUPPLIED BY THE REINFORCED EARTH COMPANY .

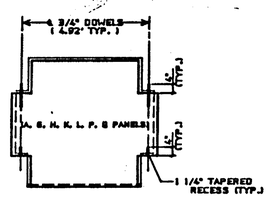
FILTER CLOTH DETAIL
PARTIAL ELEVATION - BACK FACE
SCALE = 3/16" = 1' - 0"



SECTION 1-1



CONNECTION DETAIL
NO SCALE



ALTERNATE DOWELS
REPLACEMENT DETAIL
SCALE: 3/8" = 1'-0"

CERTIFIED WITH
RESPECT TO
INTERNAL STABILITY
OF REINFORCED EARTH
STRUCTURES ONLY.

STATE OF OHIO
EUGENE A.
LAMBERSON
E-51228
REGISTERED
PROFESSIONAL ENGINEER

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"REINFORCED EARTH" IS THE REGISTERED TRADEMARK OF THE REINFORCED EARTH COMPANY.

REVISED 8-30-90

The Reinforced Earth Company
Corporate Headquarters • Mclean, Virginia
2010 Corporate Ridge Suite 1000 Mclean, Virginia 22102
(703) 821-1175

REV. NO.	DATE	DESCRIPTION

Structure	REINFORCED EARTH WALL
Location	PROJECT Nº COL-30-35.29 Sta.967+75.45 to Sta.969+85.01 Sta.987+93.60 to Sta.990+15.00
Owner	OHIO D.O.T.
Drawn By	GMF
Checked By	AP
Date	7-29-90
Drawing Covers	STD. PANEL DETAILS
Contract No.	1825
Drawing No.	5 OF 5
Scale	AS SHOWN

Calc. By	JWH
Date	8-12-86
Chk'd By	J. N. M.
Date	12-1-89

FHWA REGION	STATE	PROJECT	
5	OHIO		

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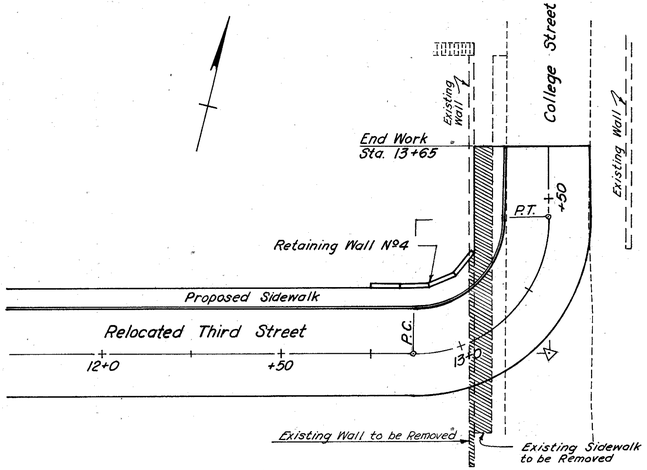
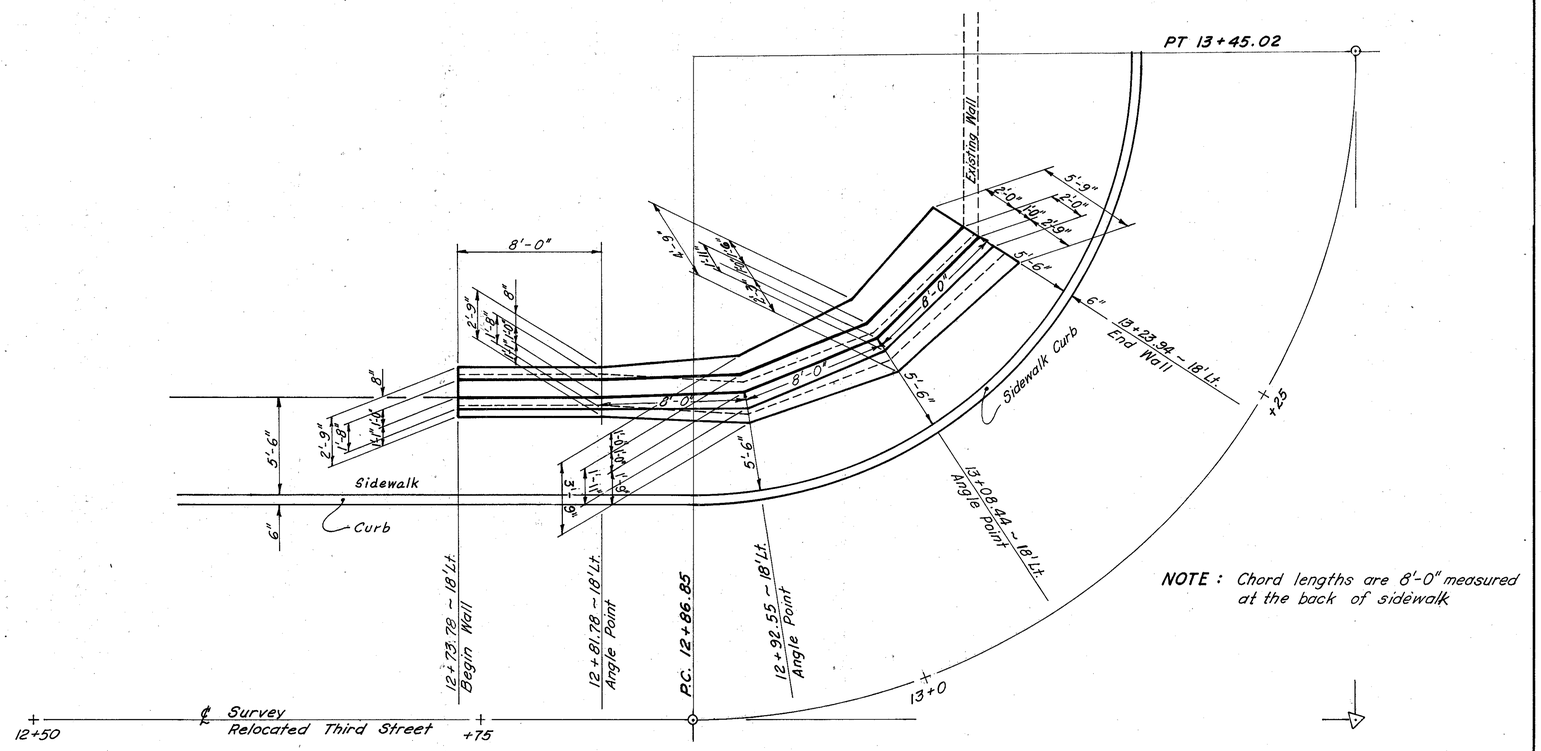
COL-30-35.29



LOCATION PLAN

SCALE IN FEET
0 10 20



NOTE : Chord lengths are 8'-0" measured at the back of sidewalk

PLAN

BRUNING 44-231 70630

RETAINING WALL Nº 4 Sheet 1 of 2

Calc. By : J. W. H.
Date : 8-12-86
Chkd By : J. N. M.
Date : 12-1-89

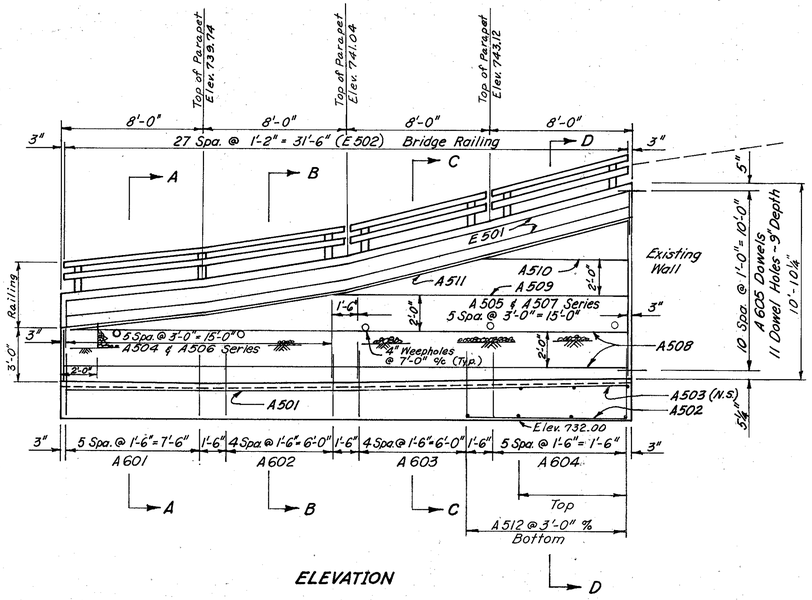
FHWA REGION	STATE	PROJECT	
5	OHIO		

277B / 362

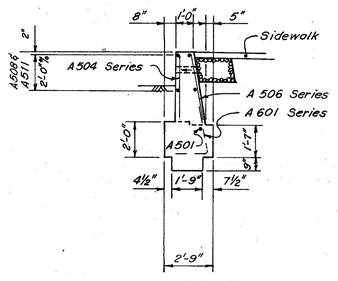
COL-30-35.29

ESTIMATED QUANTITIES

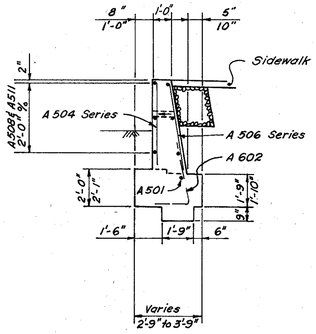
ITEM	TOTAL	UNIT	DESCRIPTION	ITEM EXT.
202	Lump Sum		PORTIONS OF STRUCTURES REMOVED	112.00
503	36	Cu Yd.	UNCLASSIFIED EXCAVATION	2.1100
503	Lump Sum	Lump	COFFERDAMS, CRIBS AND SHEETING	1.1100
509	691	Lbs.	REINFORCING STEEL, GRADE 60	1.5400
509	314	Lbs.	EPOXY COATED REINFORCING STEEL, GRADE 60	1.5800
510	11	Each	DOWEL HOLES	1.1100
511	10	Cu Yds.	CLASS C CONCRETE, WALL	4.6000
511	12	Cu Yds.	CLASS C CONCRETE, FOOTINGS	4.6500
517	32	Lin. Ft.	RAILING (DOUBLE PIPE RAIL, 711.20)	7.5000
518	8	Cu. Yd.	POROUS BACKFILL	2.1100



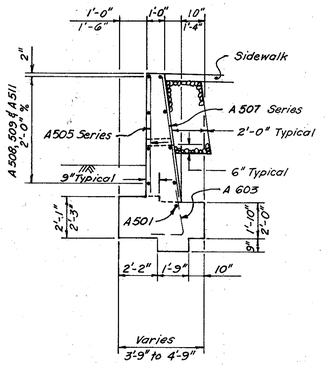
ELEVATION



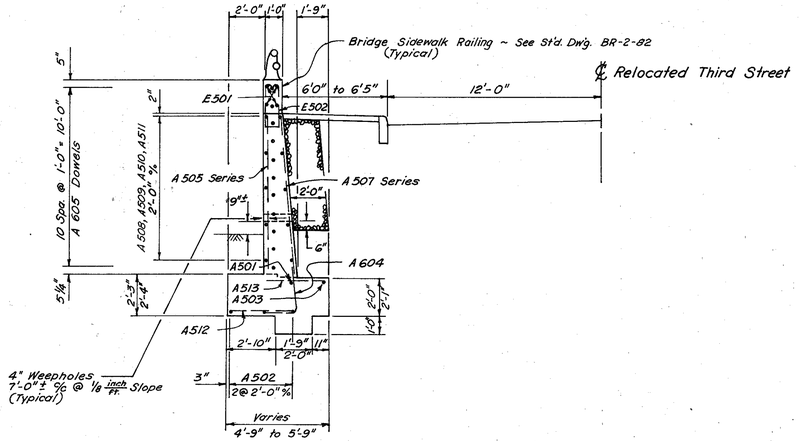
SEC A-A



SEC B-B

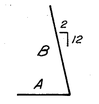


SEC C-C

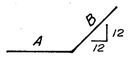


SEC D-D

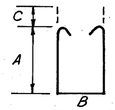
REINFORCING BAR SCHEDULE



Type 1



Type 2



Type 3

MARK	TYPE	A	B	C	D					NUMBER	LENGTH	WEIGHT
A601	1	1'-10½"	3'-5"							6	5'-2"	47
A602	1	1'-10½"	3'-6"							5	5'-3"	39
A603	1	1'-10½"	3'-8"							5	5'-5"	41
A604	1	1'-10½"	3'-9"							6	5'-6"	50
A501	Str.									1	31'-8"	33
A502	Str.									4	9'-0"	38
A503	Str.									1	6'-0"	6
A504	Str.							Length Varies by 5"		Series of 6	2'-8" to 4'-9"	23
A505	Str.							Length Varies by 8"		Series of 6	5'-4" to 8'-8"	44
A506	Str.							Length Varies by 5"		Series of 6	2'-11" to 5'-0"	25
A507	Str.							Length Varies by 8"		Series of 6	5'-7" to 8'-11"	45
A508	Str.									4	31'-8"	132
A509	Str.									2	16'-6"	34
A510	Str.									2	8'-0"	17
A511	Str.									2	32'-0"	67
A512	Str.									4	3'-8"	15
A513	Str.									3	3'-4"	10
A605	2	9"	9"							11	1'-6"	25
E501	Str.									4	31'-6"	131
E502	3	2'-6"	8"	5½"						28	6'-3"	183

RETAINING WALL Nº 4 Sheet 2 of 2

FED. RD.	STATE	PROJECT	
5	OHIO		

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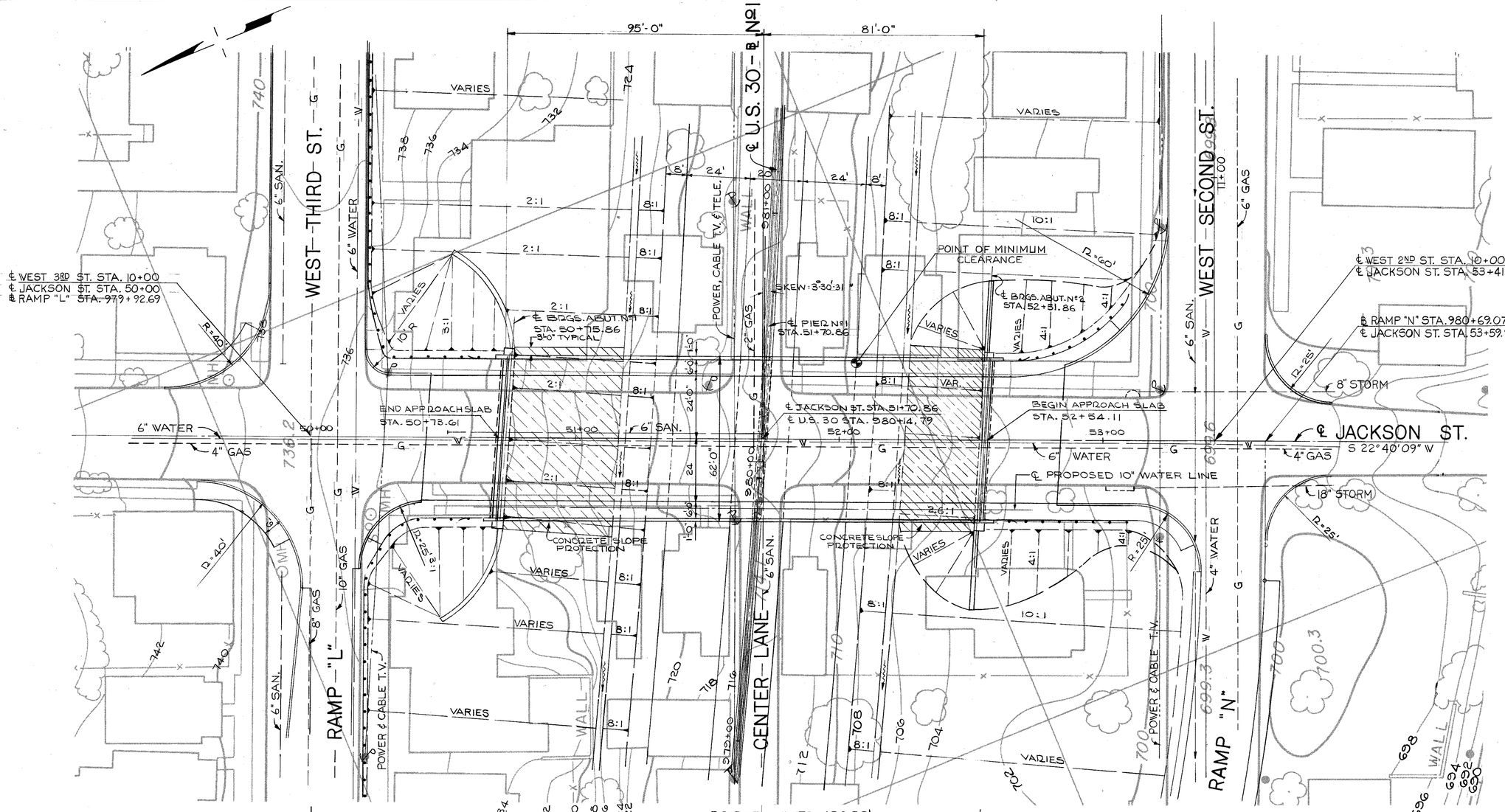
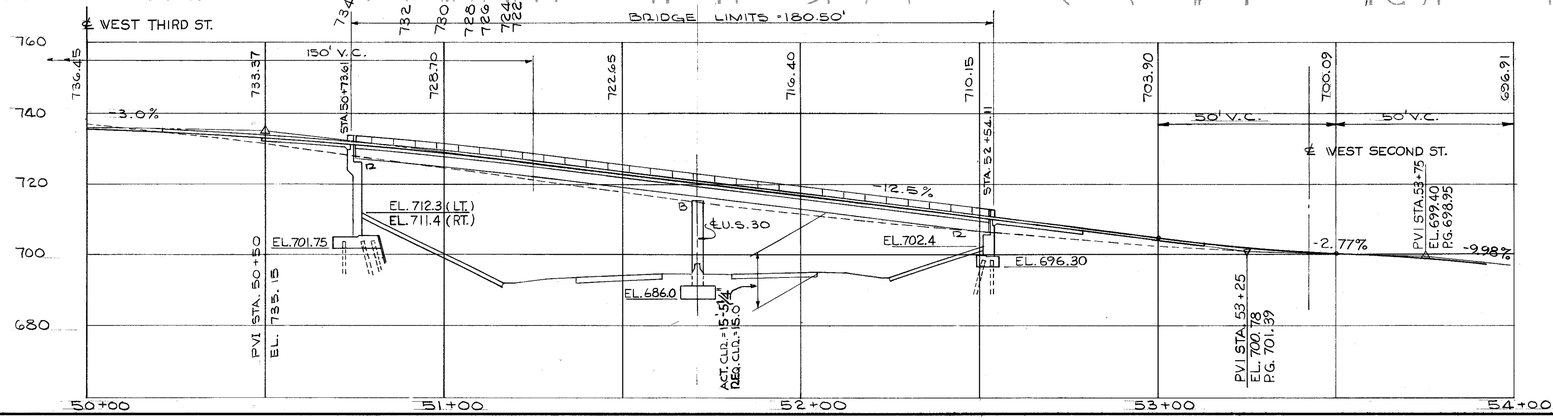
362

COL-30-35.29



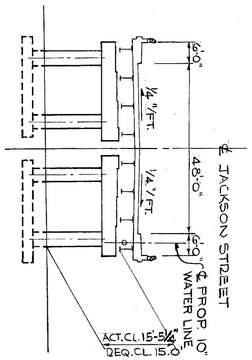


EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS-SECTIONS.

ESTIMATED AVERAGE PAY LENGTH OF STEEL PILES, HP 12x53

ABUT. No. 1	25'
ABUT. No. 2	25'

TYPICAL SECTION THRU STRUCTURE



PROPOSED STRUCTURE

TYPE: CONTINUOUS STEEL GIRDERS WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE

SPAN: 95'-0" & 81'-0" c/c BRGS.

ROADWAY: 48'-0" F/F CURBS WITH 6'-0" SIDEWALK ON BOTH SIDES

SKEW: 3° 30' 31" LT. FWD.

ALIGNMENT: STRAIGHT

LIVELOAD: HS-20-44 CASE II AND ALTERNATE MILITARY LOADING

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLAB: 30'-0" (AS-1-81)

SUPERELEVATION: NONE

SLOPE PROTECTION: CONCRETE, 601.06

TRAFFIC COUNT: ADT (2010) 6400
ADTT (2010) 330

BRIDGE LIMITS: 180.50'

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

1 / 17

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

SITE PLAN

BRIDGE No. COL-30-3560

JACKSON STREET OVER U.S. 30

STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
G.C.P.	RLW		RAH	WKD	6-4-76	

FED. RD.	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

* ARC LENGTH MEASURED ALONG FACE OF WALL.

N

℄ U.S. 30 (℄ No. 1)

℄ LIGHT PILASTER STA. 51+69.20

STA. 50+32.53

3°30'31"

53°35'57"

72'-6 3/16"

38'-6 3/16"

* ARC 43'-6"

40'-6" R.

EAST WINGWALL

36'-10 1/8"

5'-0" 4'-0"

24'-0"

50+02.37

50+73.61

86° 29' 29" (TYP.)

℄ BRG. ABUT. No. 1 STA. 50+75.86

34'-0 3/4"

2" 1'-0" 6'-0"

FACE OF CURB

4'-6"

23° 30' 51"

17'-0 1/16"

℄ PIER No. 1 STA. 51+70.86

8'-6 5/8"

8'-6 5/8"

5.1

5.2

95'-0" c/c BRGS.

81'-0" c/c BRGS.

26'-9"

34'-0 3/4"

℄ BRG. ABUT. No. 2 STA. 52+51.86

52+54.11

86° 29' 29" (TYP.)

50+48.58

24'-0"

31'-1 7/8"

73'-0 3/8"

4'-0" 6'-0"

3°30'31"

60°43'35"

39'-0 3/8"

STA. 50+28.36

40'-6" R.

WEST WINGWALL

* ARC = 49'-3 3/8"

CONCRETE SLOPE PROTECTION

CONCRETE SLOPE PROTECTION

30'-3"

GENERAL PLAN

* NORMAL DIMENSIONS

-3.0% GRADE

730'

720'

710'

700'

690'

EXP.

180'-6"

30'-0"

50+73.61

PVI STA. 50+50 EL. 725.15 PG. 733.37

150' VC

SECTION AT ℄

FIXED

-12.5% GRADE

EL. 701.75

EL. 696.30

EL. 686.0

2:1

8:1

2.5:1

54'-0"

54'-0"

2'0" 10'-0" 8'-0" 12'-0" 12'-0" 10'-0" 10'-0" 12'-0" 12'-0" 8'-0" 10'-0" 2'0"

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

2 / 17

GLAUS, PYLE & SCHOMER
AKRON, OHIO YOUNGSTOWN, OHIO

GENERAL PLAN
BRIDGE No. COL-30-35.60

JACKSON ST. OVER U.S. 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	RLW		RAH	WKD	6-4-76	

REFERENCE:
REFERENCE SHALL BE MADE TO THE FOLLOWING:
STANDARD DRAWING NO. AS-1-81 DATED 11-27-81
STANDARD DRAWING NO. BR-2-82 DATED 11-01-82
STANDARD DRAWING NO. RB-1-55 REVISED 02-02-59
STANDARD DRAWING NO. SD-1-69 DATED 06-12-69
STANDARD DRAWING NO. EXJ-2-81 REVISED 4-2-84

~~SUPPLEMENTAL SPECIFICATION 849 DATED 12-24-85~~
SUPPLEMENTAL SPECIFICATION 849 DATED 12-24-85, 949 dated 9-26-86
~~SUPPLEMENTAL SPECIFICATION 849 DATED 12-24-85~~

DESIGN SPECIFICATIONS
THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977 INCLUDING THE 1978, 1979, 1980, 1981 AND 1982 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA

DESIGN LOADING:	HS-20-44 CASE II AND THE ALTERNATE MILITARY LOADING.
CONCRETE CLASS C:	UNIT STRESS 1333 PSI FOR SUBSTRUCTURE.
CONCRETE CLASS S:	UNIT STRESS 1500 PSI FOR SUPERSTRUCTURE.
STRUCTURAL STEEL:	ASTM A36 - UNIT STRESS 20,000 PSI. ASTM A325 H.S. BOLTS.
REINFORCING STEEL:	ASTM A615, A616, OR A617 - GRADE 60, UNIT STRESS 24,000 PSI SPIRAL REINFORCEMENT MAY BE PLAIN BARS, ASTM A82 OR A615.
DECK PROTECTION METHOD:	1) EPOXY-COATED REINFORCING STEEL, TOP MAT ONLY. 2) LATEX MODIFIED CONCRETE OVERLAY.
NOTE:	MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.

FOUNDATION BEARING PRESSURE
PIER FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM BEARING PRESSURE OF 3.0 TONS PER SQ. FT.

STEEL H-PILES
THE DESIGN LOAD IS 50 TONS PER PILE FOR THE ABUTMENT PILES.
THE PILE HAMMER USED TO INSTALL THE STEEL "H" BEARING PILES SHALL HAVE A STATE'S ENERGY RATING OF NOT LESS THAN 18,000 FOOT-POUNDS. THIS REQUIREMENT DOES NOT RELIEVE THE CONTRACTOR FROM 108.05 WHICH STATES THAT THE CONTRACTOR IS TO PROVIDE SUFFICIENT EQUIPMENT FOR PROSECUTING THE REQUIRED WORK.

BACKWALL CONCRETE
IN ADDITION TO THE PROVISIONS OF 511.08, BACKWALL CONCRETE ABOVE THE BRIDGE SEAT SHALL NOT BE PLACED UNTIL AFTER THE DECK CONCRETE IN THE SPAN ADJACENT TO THE ABUTMENT HAS BEEN PLACED.

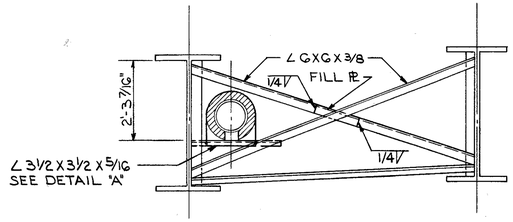
FINISHING MACHINE SUPPORTS
WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE NOT CLOSER THAN 1" FROM EDGE OF FLANGE, BE NOT MORE THAN 2" LONG, AND BE NOT SMALLER THAN THE MINIMUM SIZE REQUIRED BY AASHTO.

ITEM 516, PVC WATERSTOP, AS PER PLAN
CONTRACTION (AND EXPANSION) JOINTS SHALL BE SEALED USING THE FOLLOWING MATERIALS:
A 6" PVC WATERSTOP CENTERED ON THE JOINT AND LOCATED IN THE WALL 6" TO 9" FROM THE BACK SIDE. THE WATERSTOP SHALL BE W.R. MEADOWS SEALTIGHT DUO-PVC NO. 6180-D OR NO. 6180-ND OR APPROVED ALTERNATE. THE WATERSTOP SHALL BE CAPABLE OF ACCOMMODATING 1-1/2" OF JOINT MOVEMENT.
WATERSTOP SHALL EXTEND FROM TOP OF FOOTING TO 1'-0" BELOW TOP OF WALL, OR AS SHOWN IN THE PLANS.

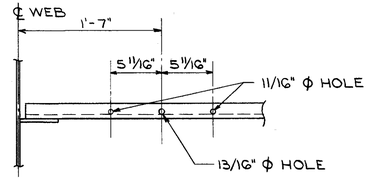
UNDERGROUND UTILITIES
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

UTILITY LINES
ALL EXPENSE INVOLVED IN RELOCATING THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE OWNERS. THE CONTRACTOR AND OWNERS ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

ITEM SPECIAL, SEALING OF CONCRETE SURFACES
A CONCRET SEALER, EITHER SILANE OR AN EPOXY SEALER, SHALL BE APPLIED TO THE CONCRETE SURFACES SHOWN ON THE PLANS. SEE THE PROPOSAL FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION RATES, MATERIAL REQUIREMENTS AND APPLICATION PROCEDURES.



WATER LINE ANCHOR DETAIL
FOR WATER LINE DETAILS SEE SHT. 224/225
FOR TYPICAL CROSSFRAME DETAILS SEE SHT. 15/17



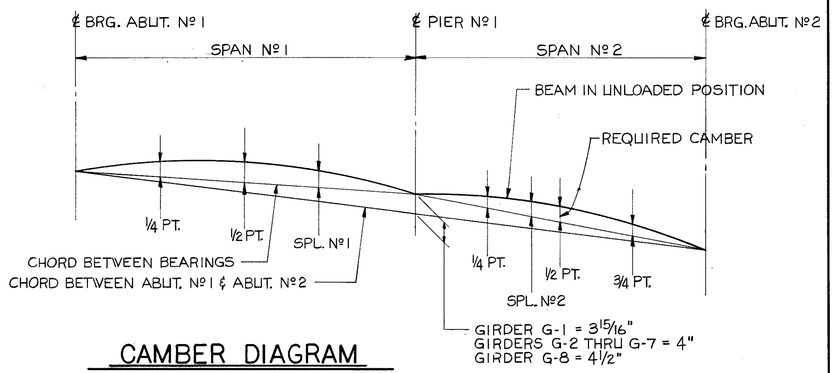
DETAIL "A"

	GIRDER G-1						
	SPAN Nº 1			SPAN Nº 2			
LOCATION OF POINTS	1/4	1/2	SPL.	1/4	SPL.	1/2	3/4
DEFLECTION DUE TO WEIGHT OF STEEL	3/16	3/16	1/8	0	0	1/16	1/16
DEFLECTION DUE TO REMAINING DEAD LOAD	1/2	5/8	5/16	1/16	3/16	1/4	1/4
ADJUSTMENT REQUIRED FOR VERTICAL CURVE	4 1/4	4 1/4	2 7/16	0	0	0	0
REQUIRED SHOP CAMBER	4 15/16	5 1/16	2 7/8	1/16	3/16	5/16	5/16

	GIRDERS G-2 THRU G-7						
	SPAN Nº 1			SPAN Nº 2			
LOCATION OF POINTS	1/4	1/2	SPL.	1/4	SPL.	1/2	3/4
DEFLECTION DUE TO WEIGHT OF STEEL	3/16	1/4	1/8	0	0	1/16	1/16
DEFLECTION DUE TO REMAINING DEAD LOAD	13/16	15/16	1/2	1/8	1/4	3/8	3/8
ADJUSTMENT REQUIRED FOR VERTICAL CURVE	4 3/8	4 3/8	2 3/16	0	0	0	0
REQUIRED SHOP CAMBER	5 3/8	5 9/16	2 13/16	1/8	1/4	7/16	7/16

	GIRDER G-8						
	SPAN Nº 1			SPAN Nº 2			
LOCATION OF POINTS	1/4	1/2	SPL.	1/4	SPL.	1/2	3/4
DEFLECTION DUE TO WEIGHT OF STEEL	3/16	3/16	1/8	0	0	1/16	1/16
DEFLECTION DUE TO REMAINING DEAD LOAD	1/2	5/8	5/16	1/16	3/16	1/4	1/4
ADJUSTMENT REQUIRED FOR VERTICAL CURVE	4 9/16	4 7/8	2 13/16	0	0	0	0
REQUIRED SHOP CAMBER	5 1/4	5 1/16	3 1/4	1/16	3/16	5/16	5/16

WATER LINE INSTALLATION
WATER LINE SHALL BE INSTALLED ON THE STRUCTURE AFTER DECK SLAB CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND DECK FORMS HAVE BEEN REMOVED.



CAMBER DIAGRAM

3/17

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

GENERAL NOTES, DEFLECTION ℄ CAMBER

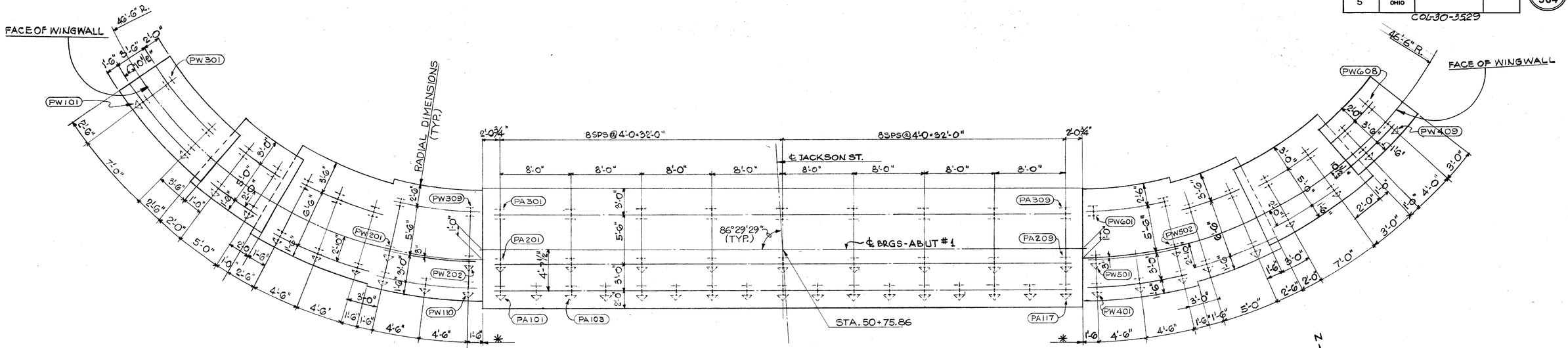
BRIDGE Nº COL-30-3560
JACKSON ST. OVER U.S. 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	RLW		JRS	RJH	7-13-87	

FED. RD.	STATE	PROJECT	
5	OHIO		

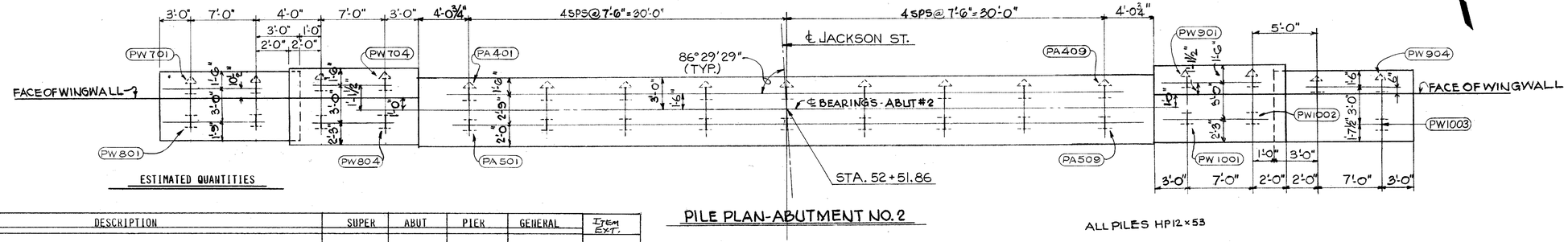
COL-30-3529

281
364



PILE PLAN- ABUTMENT NO.1

*MEASURED ALONG WINGWALL FACE



PILE PLAN-ABUTMENT NO.2

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	PIER	GENERAL	ITEM EXT.
503	LUMP	L.S.	COFFERDAMS, CRIBS AND SHEETING				LUMP	11100
503	1269	C.Y.	UNCLASSIFIED EXCAVATION		1075	194		21100
504	1062	S.F.	STEEL SHEET PILING LEFT IN PLACE (MINIMUM SECTION MODULUS OF 20 CU.IN. PER FOOT OF WALL)		1062			11100
505	LUMP	L.S.	PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	11100
507	2750	L.F.	STEEL PILES, HP 12 X 53		2750			14400
509	83165	LB.	REINFORCING STEEL, GRADE 60		61,222	21,943		15400
511	359	C.Y.	CLASS C CONCRETE, FOOTINGS		302	57		46500
511	371	C.Y.	CLASS C CONCRETE, ABUTMENTS ABOVE FOOTINGS		371			44500
511	49	C.Y.	CLASS C CONCRETE, PIER CAPS AND COLUMNS			49		41000
511	404	C.Y.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN	404				31503
513	405,300	LB.	STRUCTURAL STEEL, ASTM A-36, (AISC CATEGORY III)	405,300				12200
514	405,300	LB.	FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM A	405,300				01500
516	108	S.F.	1" PREFORMED EXPANSION JOINT SEALER		108			13600
516	68	S.F.	1/2" PREFORMED EXPANSION JOINT FILLER		68			13200
516	125	L.F.	STRUCTURAL EXPANSION JOINTS INCLUDING ELASTOMERIC COMPRESSION SEALS	125				10500
516	100	L.F.	PVC WATERSTOP, AS PER PLAN		100			30501
517	357	L.F.	RAILING (CONCRETE PARAPET WITH DOUBLE PIPE RAIL)	357				71500
518	288	C.Y.	POROUS BACKFILL		288			21100
518	122	L.F.	6" PERFORATED, HELICAL CORRUGATED STEEL PIPE, 707-01		122			41100
518	10	L.F.	6" NON-PERFORATED HELICAL CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707-01		10			41200
523	3	HR.	DYNAMIC LOAD TEST				3	11100
601	549	S.Y.	CONCRETE SLOPE PROTECTION		549			21100
625			SEE SHEET 236 FOR LIGHTING SUMMARY					
509	82520	LB.	EPOXY COATED REINFORCING STEEL, GRADE 60	82520				15800
SPECIAL	383	S.Y.	SEALING OF CONC. SURFACES (SEE PROPOSAL NOTE)	383				

ALL PILES HP12×53

⇣-INDICATES DIRECTION OF BATTERED PILE. PILE BATTER 1:4

(PA101)
(PW101)

THE NUMBERS AS INDICATED ABOVE SHALL BE THE PILE MARK. THE FIRST LETTER (P) REFERS TO PILE. THE SECOND LETTER REFERS TO (A)-ABUTMENT, (W)-WINGWALL. THE FIRST DIGIT WHERE THREE ARE USED AND THE FIRST TWO DIGITS WHERE FOUR ARE USED INDICATE THE PILE ROW. THE LAST TWO DIGITS INDICATE THE POSITION IN THAT ROW. FOR EXAMPLE: (PA103) INDICATES THE THIRD PILE IN THE FIRST ROW OF THE ABUTMENT.

REV. 4-12-90

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

4 / 17

GLAUS, PYLE & SCHOMER
AKRON, OHIO — YOUNGSTOWN, OHIO

PILE PLAN AND ESTIMATED QUANTITIES

BRIDGE No. COL-30-3560
JACKSON ST. OVER US30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	ALW		RAH	WKD	6-4-76	

FED. RD.	STATE	PROJECT	
5	OHIO		

282
362

℄ JACKSON ST.

FOR RAILING DETAILS SEE SHT. 14 / 17

EAST WINGWALL

WEST WINGWALL

3'-10" 3/8" 5'-6 1/8" 24'-6 9/16" (APPROACH SLAB SEAT) 34'-0 3/4" 24'-0 9/16" 24'-6 9/16" (APPROACH SLAB SEAT) 34'-0 3/4" 24'-0 9/16" 10'-0 15/16" 5'-6 1/8" 3/8" 4'-2 1/8"

9'-11 7/16"

℄ BRG. ABUT. Nº 1
STA. 50 + 75.86

15/16" 3/4" 602 602 AT 12"℄

602 513

86°29'29" (TYP.)

LEVEL (TYPICAL)

1'-0" TYP. (T.P.) 5'-0"

4'-1 1/4" 1'-6" 2'-3" 5'-7 1/4" 13'-6"

℄ GIRDER G-8 ℄ GIRDER G-7 ℄ GIRDER G-6 ℄ GIRDER G-5 ℄ GIRDER G-4 ℄ GIRDER G-3 ℄ GIRDER G-2 ℄ GIRDER G-1

1'-6" 1'-6" 3'-0"

1" SLOPE BETWEEN BEAM SEATS (TYP.)

5-508 5-502 5-503 SPL. W/5-509 1004 1004

2'-8 13/16" 3'-3 5/16" 3-SPACES AT 8'-0 3/16" = 24'-0 9/16" 4'-0 3/32" 4'-0 3/32" 3-SPACES @ 8'-0 3/16" = 24'-0 9/16" (BEAM SPACING) 3'-4 13/16" 2'-7 5/16"

PLAN

℄ 16" ϕ SCH. 10 STEEL PIPE SLEEVE

2'-8 13/16" 4" 1'-0" 6'-0 1/8" FOR 10" WATER LINE 24'-0 9/16" 26'-5 5/8" 24'-0 9/16" 6'-0 1/8" 1'-0" 2'-7 5/16" EL. 722.72

℄ CONTRACTION JT. EL. 729.31

℄ JACKSON ST. (@ BACKWALL FACE)

N.S. = NEAR SIDE
F.S. = FAR SIDE
SPCG = SPACING.
⏚ = SHOWS BATTER OF PILE.

513 (N.S. & F.S.)

1 1/2" 1" 15/16" 1 1/2"

REINFORCING ARRANGMENT IS SAME AS AT OTHER END

6" PVC WATERSTOP FROM TOP OF FOOTING TO BOTTOM OF APPROACH SLAB. SEE NOTE. SHT. 3 / 17

728.53 F.S.
728.35 N.S.

7-601 @ 12" F.S.
7-604 @ 12" N.S.

17-801 AT 18 5/8"

25-608 @ 12" N.S.
25-609 @ 12" F.S.

10-501 @ 17" (N.S. & F.S.)

6-ADDITIONAL 504 UNDER EACH BEAM

7-601 @ 12" F.S.
7-604 @ 12" N.S.

4" GALV. STD. STEEL PIPE INCLUDED WITH 511 CLASS 'C' CONC., ABUT. ABOVE FTG'S.

503
502
508

CONST. JT.

509

24-504 @ 17 1/2"

10-506 (N.S.) 1'-6 5-511 (N.S.) 1'-6" 6-512 (N.S.) 1'-0 4-512 (N.S.) 4-512 (N.S.) 1'-0 6-511 (N.S.) 1'-6 5-510 (N.S.) 1'-6" 10-505 (N.S.)

28-501 @ 17 1/4" (N.S. & F.S.)

28-501 @ 17" (N.S. & F.S.)

32-1002 AT 13 3/8" (F.S.) - SPL. W/ 1001

4'-0" (TYPICAL)

FINISH GRADE

RUSTICATION GROOVES @ 4'-0 3/8" SEE SECTION "C-C" 5/17

4" DIA. WEEP HOLES AT 5'-0" ± NOMINAL

EL. 711.4

℄ 31-1002 AT 13 3/8" (F.S.) - ALT. W/ 1001

32-1001 AT 13 3/8" (F.S.) (ALT. W/ 1003

31-1003 @ 13" F.S. - ALT. W/ 1001

32-1001 AT 13 3/8" (F.S.) (ALT. W/ 1003

9'-3" 4'-3"

26-605 SPLICE BARS WITH 603

℄ ELEVATION

EL. 701.75

2'-0" TYPICAL

6-1004 @ 7' BET. PILES

SECTION A-A

6" 18" 6"

LOCATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R
ELEVATION	724.87	725.21	725.33	725.45	725.40	725.19	724.98	724.55	731.84	731.44	730.61	731.50	730.88	731.72	731.25

NOTE
PREFIX "1A" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR ABUTMENT NO. 1. SEE REINFORCING SCHEDULE.

COL - 30-35.20

N

1 1/4" BEAM SEAT

CONST. JT.

4" ϕ DIR.

DETAIL "X"

3'-9" 6" 1'-3" 2'-0" 10" 1'-0"

℄ BRG. APPR. SLAB.

FOR EXPANSION JOINT DETAIL SEE SHT. 13 / 17

801 608, 604 ℄ BEARING 609, 601

2'-0" 501 CONST. JOINT SEE DETAIL "X"

PERVIOUS BACKFILL

6-504 UNDER BEAMS (TYP.)

48-504 - LAP W/ 505, 506, 510, 511, 512

1'-9" MIN. 501 4'-0"

NOTE "B" SHEET PILING (MIN. SECTION MODULUS = 20 IN.³ PER FOOT OF WALL) TO EXTEND 5 FT. BELOW FTG. BATTER 1:4

501 1002

2" CLEAR (TYP.)

505, 506, 510, 511, 512 @ 18" B.S.

4" ϕ WEEPHOLE

62-1003 @ 13"

5'-7 1/2" 2'-3" 5'-7 1/2"

2 CU. FT. BAGGED 3/4" AGGREGATE @ EACH WEEP HOLE

1/2" P.E.J.F.

№6 BAR x 2'-0" LG. 2-EACH PILING 5/16" FILLET WELD ALL AROUND. PAY'T. INCLD. W/ ITEM 504

69-602, lap with piling bars

1001

CONC. SLOPE PROTECTION

8" 3" CONST. JT.

13-603

SEE NOTE "B"

3'-9" 5'-0"

102-1004

3'CLR 3'-0" 5'-6" 3'-0" 2'-0"

EL. 712.3

3" CI.

HP 12 x 53 (TYP)

SECTION C-C

SHEET PILING SHALL HAVE A MIN. SECTION MODULUS OF 20.0 IN.³ PER F.T. OF ABUT. WALL.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

5 / 17

GLAUS, PYLE & SCHOMER
AKRON, OHIO YOUNGSTOWN, OHIO

ABUTMENT Nº 1
BRIDGE Nº COL-30-35.20

JACKSON ST. OVER U.S. 30

STA. 50 + 73.61 TO STA. 52 + 54.11

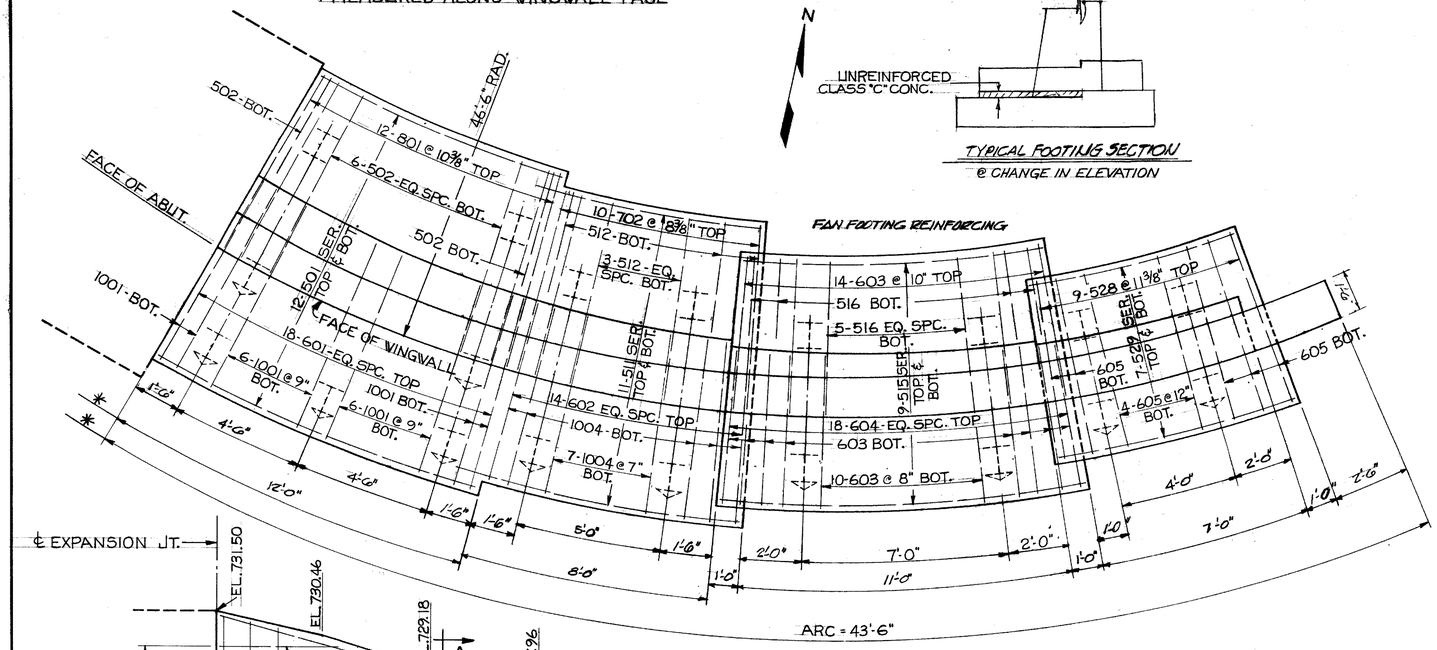
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	RLW		RAH	WKD	6-4-74	

FED. RD.	STATE	PROJECT	
5	OHIO		

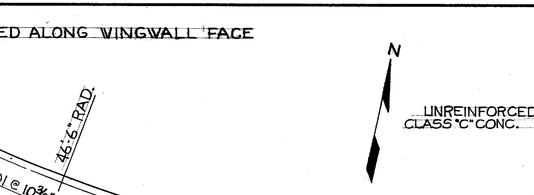
283
362

COL-30-3529

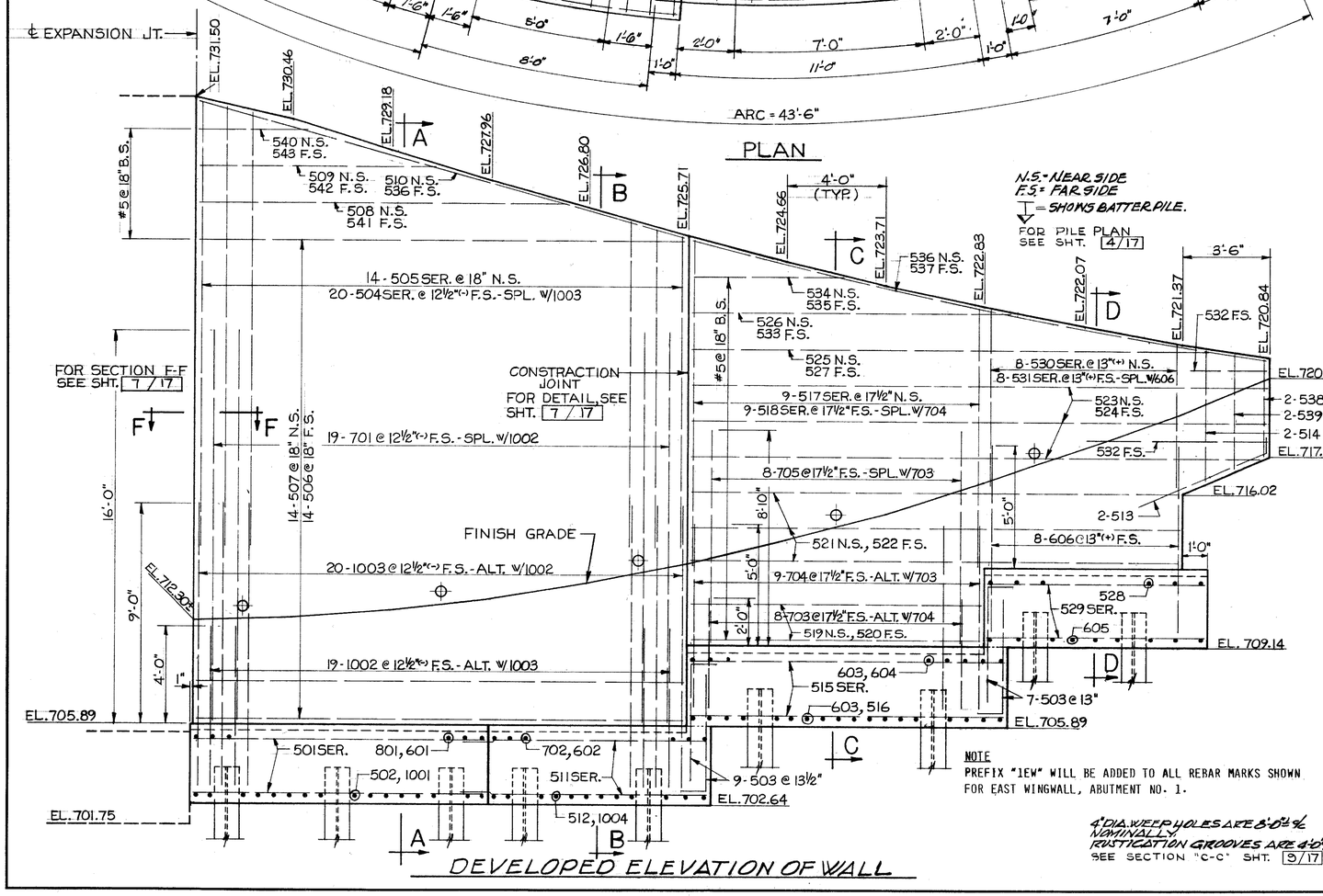
* MEASURED ALONG WINGWALL FACE



PLAN



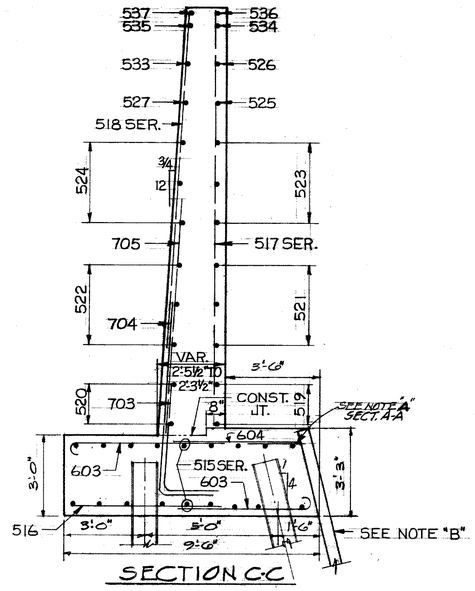
TYPICAL FOOTING SECTION
@ CHANGE IN ELEVATION



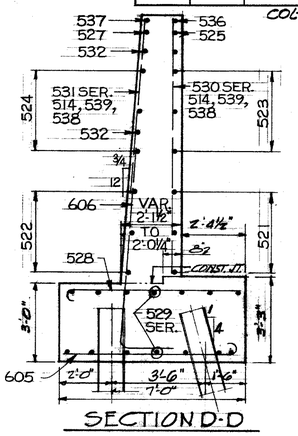
DEVELOPED ELEVATION OF WALL

NOTE
PREFIX "1EW" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR EAST WINGWALL, ABUTMENT NO. 1.

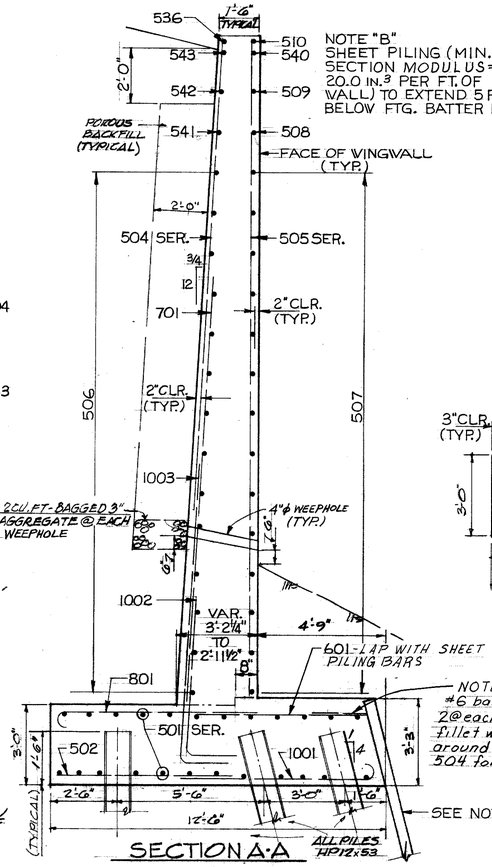
4" DIA. WEEP HOLES ARE 8'-0½" NOMINALLY. KUSTICATION GROOVES ARE 4'-0¾" SEE SECTION "C-C" SHT. 5/17



SECTION C-C

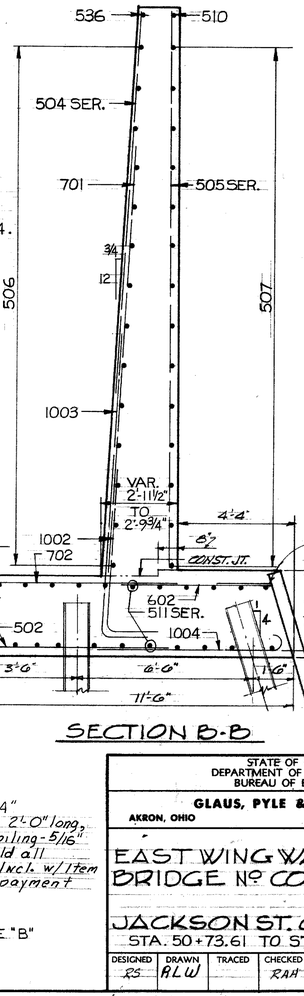


SECTION D-D



SECTION A-A

NOTE "B"
SHEET PILING (MIN. SECTION MODULUS = 20.0 IN.³ PER FT. OF WALL) TO EXTEND 5 FT. BELOW FTG. BATTER 1:4.



SECTION B-B

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

6 / 17

GLAUS, PYLE & SCHOMER
AKRON, OHIO — YOUNGSTOWN, OHIO

EAST WING WALL-ABUT. No. 1
BRIDGE No. COL-30-3560

JACKSON ST. OVER U.S. 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	ALW		RAH	WKD	6-4-76	

FED. RD.	STATE	PROJECT	
5	OHIO		

COL-30-35.28

284
362

✱ MEASURED ALONG WINGWALL FACE

N

605 BOT. 14-514 @ 10 3/8" TOP 9-605 @ EQ. SPC. BOT. 7-516 SER. TOP & BOT. 4'-3 1/8" 1'-0" 2'-10" 7'-0" 12'-0" FACE OF WINGWALL

605 BOT. 9-604 @ 11" TOP 509 BOT. 4-509 @ EQ. SPC. - BOT. 9-515 SER. TOP & BOT. 603 BOT. 9-508 @ EQ. SPC. TOP 7-603 @ 10" BOT. 2'-6" 1'-0" 1'-0" 5'-0" 8'-0"

FAN REINFORCING IN FOOTING

14-702 @ 9 3/4" TOP 502 BOT. 3-502 @ EQ. SPC. - BOT. 20-602 @ EQ. SPC. TOP 1004 BOT. 6-1004 @ 9" BOT. 6-1004 @ 9" BOT. 1'-0" 1'-6" 4'-6" 4'-6" 13'-0"

45'-6" RAD.

12-801 @ 10 3/8" TOP 6-502 @ EQ. SPC. BOT. 502 BOT. 10-507 SER. TOP & BOT. 18-601 @ EQ. SPC. TOP 1001 BOT. 6-1001 @ 9" BOT. 6-1001 @ 9" BOT. 1'-0" 4'-6" 4'-6" 12'-0" ARC = 49'-3 3/8"

502 BOT. FACE OF ABUT. 1001 BOT. 1'-0"

6" PVC WATERSTOP FROM TOP OF FOOTING TO 1'-0" BELOW TOP OF WALL SEE NOTE, SHT. 3 / 17

VARIES 6" 5 5/8" 15/16" 2'-0" FACE OF WALL

CONTRACTION JOINT

NOTE
PREFIX "1WW" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR WEST WINGWALL, ABUTMENT NO. 1.

N.S. = NEARSIDE
F.S. = FARSIDE
= SHOWS BATTER OF PILE
FOR PILE PLAN SEE SHT. 5 / 17

PLAN

4'-0" (TYP.)

EL. 721.82 EL. 721.91 EL. 722.29 EL. 722.76 EL. 723.34 EL. 724.00 EL. 724.74 EL. 725.61 EL. 726.53 EL. 727.55 EL. 728.61 EL. 729.77 EL. 730.99 EL. 731.84

A B C D

505 N.S. 506 F.S. 539 N.S. 540 F.S. 525 N.S. 526 F.S. 537 N.S. 538 F.S. 543 N.S. 544 F.S. 523 N.S. 524 F.S. 521 N.S. 522 F.S. 527 N.S. 528 F.S. 525 N.S. 526 F.S.

EL. 720.48 2-517 2-509 EL. 717.23 2-518 EL. 715.23 EL. 708.25 EL. 705.0

2-502 2-508 541 F.S. 542 F.S. 533 N.S. 534 F.S. 531 N.S. 532 F.S. 535 N.S. 536 F.S. 529 N.S. 530 F.S. 541 F.S. 6-510 SER. @ 18" N.S. 6-511 SER. @ 18" F.S. - SPL. W/804 9-512 SER. @ 17 1/2" N.S. 9-513 SER. @ 17 1/2" F.S. - SPL. W/606 5-803 @ 18" F.S. SPL. W/802 9-606 @ 17 1/2" F.S. 6-804 @ 18" F.S. ALT. W/802 5-802 @ 18" N.S. ALT. W/803 514 516 SER. 605 508,604 515 SER. 509,603 7-545 @ 13" 9-545 @ 13 1/2" 1'-0" 11'-0" 5'-0" 7'-0" 3'-6" # 5 @ 18" B.S. # 5 @ 15 3/4" B.S.

17-503 SER. @ 17 3/4" N.S. 24-504 SER. @ 12 1/2"(-) F.S. - SPL. W/1003

CONTRACTION JOINT

14-519 @ 18" N.S. 14-520 @ 18" F.S.

23-701 @ 12 1/2"(-) F.S. - SPL. W/1002

FINISH GRADE

24-1003 @ 12 1/2"(-) F.S. - ALT. W/1002

23-1002 @ 12 1/2"(-) F.S. - ALT. W/1003

5 @ 18" B.S.

16'-0" 9'-0" 4'-0"

EL. 711.4± EL. 705.00

507 SER. 602, 702 502, 1004 501 SER. 601, 801 502, 1001

4" DIA. WEEP HOLES ARE 8'-0" ± NOMINALLY. RUSTICATION GROOVES ARE 2'-0" ± SEE SECTION "C-C" SHT. 8 / 17

EL. 701.75

DEVELOPED ELEVATION

EL. 731.84 ℄ EXPANSION JT.

6" PVC WATERSTOP FROM TOP OF FTG. TO 1'-0" BELOW TOP OF WALL

VAR. 1'-0" TOP 1'-9" @ BOT. 2'-3"

FACE OF WALL FACE OF ABUT. 1" P.E.J.F.

SECTION F-F

1'-0" TYPICAL

506 505 540 539 526 525 511 SER. 538 537 536 3/4 12 535 803 510 SER. 534 533 532 804 531 VAR. 2'-6 5/8" TO 2'-5 1/2" 3'-0" 802 CONST. JT. 8" 530 529 604 508 515 SER. 603 509 3'-0" 3'-3" 3'-0" 5'-0" 1'-6" 9'-6"

SECTION B-B

506 505 538 537 541 513 SER. 502, 508, 509, 517 536 3/4 12 535 512 SER. 502 508, 509, 517 542 534 533 606 VAR. 2'-3" TO 2'-2" 2'-4 1/2" 532 CONST. JT. 8" 531 514 516 SER. 605 3'-0" 3'-3" 2'-0" 3'-6" 7'-0" 1'-6"

SECTION A-A

543 544 522 521 504 SER. 3/4 12 503 SER. 701 520 519 1003 1002 VARIES 2'-10 3/4" TO 2'-8" 4'-4" 8" CONST. JT. SEE NOTE "A" SHT. D/D 702 602 507 SER. 1004 502 3'-0" 3'-3" 3" CLR. (TYP.) 3" CLR. (TYP.) 3'-6" 6'-6" 1'-6" 11'-6" SEE NOTE "B" SHT. G / 17

SECTION C-C

544 543 528 527 2'-0" 526 525 524 523 2'-0" 522 521 504 SER. 3/4 12 FACE OF WINGWALL (VERTICAL, TYP.) POROUS BACKFILL (TYPICAL) 701 503 SER. 2" CLR. (TYP.) 2" CLR. (TYP.) 2 CU. FT. BAGGED AGGR. (GATE @ EACH WEEPHOLE) 4" DIA. WEEP HOLE (TYPICAL) 520 519 1003 1002 801 VARIES 3:1" TO 2'-10 3/4" 4'-0" 8" CONST. JT. SEE NOTE "B" SHT. G / 17 3'-0" 3'-3" 1'-6" (TYP.) 501 SER. 502 601 1001 NOTE "A" 2-#6 BARS 2'-0" LG. EACH PILING. WELD W/5/16" FILLET WELD ALL AROUND. PAVT. INCL. W/ITEM 504 2'-6" 5'-6" 3'-0" 4" 12'-0"

ALL PILES HP 12 x 53

SECTION D-D

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

7 / 17

GLAUS, PYLE & SCHOMER
AKRON, OHIO YOUNGSTOWN, OHIO

WEST WING WALL-ABUT. Nº 1
BRIDGE Nº COL-30-35.60
JACKSON ST. OVER U.S. 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	RLW		RAH	WKD	6-07	

FED. RD.	STATE	PROJECT	
5	OHIO		

285
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COL-30-35.29

℄ JACKSON ST.

FOR RAILING DETAILS SEE SHT. 14 / 17

34'-0¾" | 34'-0¾"

9'-11⁷⁄₁₆" | 24'-0⁹⁄₁₆" | 24'-0⁹⁄₁₆" | 10'-0¹⁵⁄₁₆"

3'-10" | ⅜" | 5'-6⅛" | 24'-6⁹⁄₁₆" (APPROACH SLAB SEAT) | 24'-6⁹⁄₁₆" (APPROACH SLAB SEAT) | 5'-6⅛" | ⅜" | 4'-2⅛"

1'-0" TYP. | 5'-0" (TYP.) | L | M N | R | ¾" | 15⁄16" | ℄ BRG. ABUT. Nº 2 STA. 52+51.86 | 6" PERF. C.S.P. | I J | K | 15⁄16"

6'-3" | 2'-0" | 1'-0" | 1'-3" | 3⁄4" SLOPE (TYPICAL) | LEVEL (TYPICAL) | 1'-6" | 1'-6" | 86°29'29" (TYP.) | 557 | 559 | 556

℄ GIRDER G-1 | ℄ GIRDER G-2 | ℄ GIRDER G-3 | ℄ GIRDER G-4 | ℄ GIRDER G-5 | ℄ GIRDER G-6 | ℄ GIRDER G-7 | ℄ GIRDER G-8

2'-8¹³⁄₁₆" | 3'-3⁵⁄₁₆" | 3 SPACES AT 8'-0⁹⁄₁₆" = 24'-0⁹⁄₁₆" | 4'-0³⁄₃₂" | 4'-0³⁄₃₂" | 3 SPACES AT 8'-0⁹⁄₁₆" = 24'-0⁹⁄₁₆" | 3'-4³⁄₁₆" | 2'-7⁵⁄₁₆"

4'-0¾" | 8 SPACES AT 7'-6" = 60'-0" | 4'-0⅛"

EAST WINGWALL | WEST WINGWALL

N

FOR EXPANSION JOINT DETAIL, SEE SHT. 13 / 17

3'-9" | 6" | 1'-3" | 1'-0" | 1'-0" | 17⁄8"

APPROACH SLAB | ℄ BEARING | 851 | 654 | 653 | 1'-6" | POROUS BACKFILL | 554, 555 | 2" CLR. (TYP.) | 652, 657 CONST. JT. | 553 | 552 | ½" P.E.J.F. | EL. 702.40 | 1'-3" | 554, 555 | 3'-9" | 2'-0" | CONC. SLOPE PROTECTION | 6" HELICAL PERFORATED CSP | 1'-0" | 551 | 3'-0" CONST. JT. | 2'-0" | 3'-3" | 3" CLEAR | 852, 853 | 651 | 3" CLR. | 2'-0" | 2'-9" | 1'-6" | 6'-3"

ALL PILES ARE HP12×53

SECTION A-A

PLAN

= SHOWS BATTER OF PILE

2G'-5⅝"

24'-0⁹⁄₁₆" | FOR PILE PLAN SEE SHT. 3 / 17 | 6'-0⅛" | 4" | 1'-0" | 2'-7⅝" | 1½"

℄ 16" ϕ SCH. 10 PIPE SLEEVE FOR 10" ϕ WATER LINE. (PLACE PARALLEL TO ℄ JACKSON ST.)

℄ JACKSON ST. (@ BACKWALL FACE)

R | A

2'-8¹³⁄₁₆" | 4" | 1'-0" | 6'-0⅛" | 24'-0⁹⁄₁₆" | 1½"

NOTE: REINFORCING STEEL IS THE SAME AS AT OTHER END.

L | N | M | 560 B.S. | EL. 707.54 APPROACH SLAB SEAT | J | I | K | 560 B.S. | SEE RAILING DETAILS SHT. 14 / 17

8-653 @ 12" | 8-654 @ 12" | 8-657 @ 12" | 34-851 @ 18" | 49-652 @ 12" F.S., 49-653 @ 12", 49-654 @ 12" N.S. | 8-653 @ 12" | 8-654 @ 12" | 8-657 @ 12" | 706.82 N.S. | 706.60 F.S. | 556, 559 | 557

A | B | C | 1'-6" TYPICAL | FINISH GRADE | D | E | F | G | H | CONST. JOINT | CONST. JT. | 558 (DOWELS) | EL. 702.40

9-555 | 9-555 | 9-554

6-ADDITIONAL 553 UNDER EACH BEAM

11-555 | 11-555 | 11-554

46-553 @ 18" | 46-552 @ 18" | 1/8"/FT. | 6" PERF. C.S.P. | 1/8"/FT.

7-853 | 7-853 | 7-852

46-551 @ 18" | 46-651 @ 18"

EL. 696.30 | A | (TYPICAL)

ELEVATION

NOTE

PREFIX "2A" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR ABUTMENT NO. 2. SEE REINFORCING SCHEDULE.

LOCATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R
ELEVATION	703.44	703.74	703.97	704.19	704.26	704.15	704.05	703.87	709.48	710.31	710.45	709.99	709.11	709.94	709.79

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

8 / 17

GLAUS, PYLE & SCHOMER
AKRON, OHIO | YOUNGSTOWN, OHIO

ABUTMENT Nº 2
BRIDGE Nº COL-30-3560

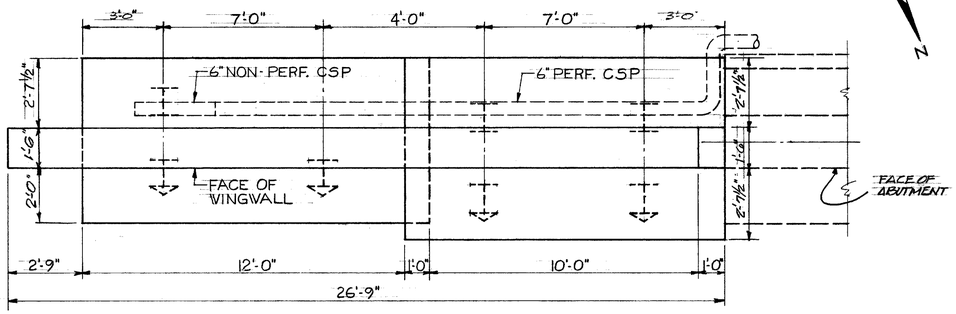
JACKSON ST. OVER U.S. 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	ALW		RAH	WKD	6-4-76	

FED. RD.	STATE	PROJECT	
5	OHIO		

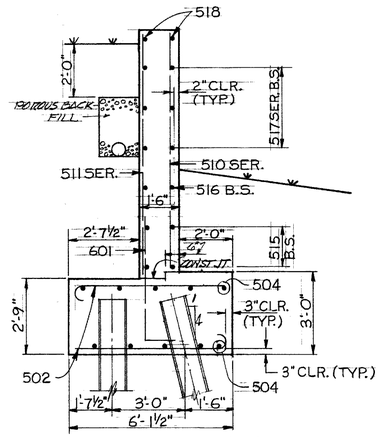
286
362

COL-30-35.29

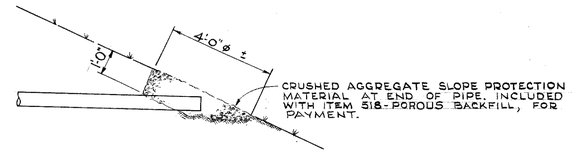


PLAN

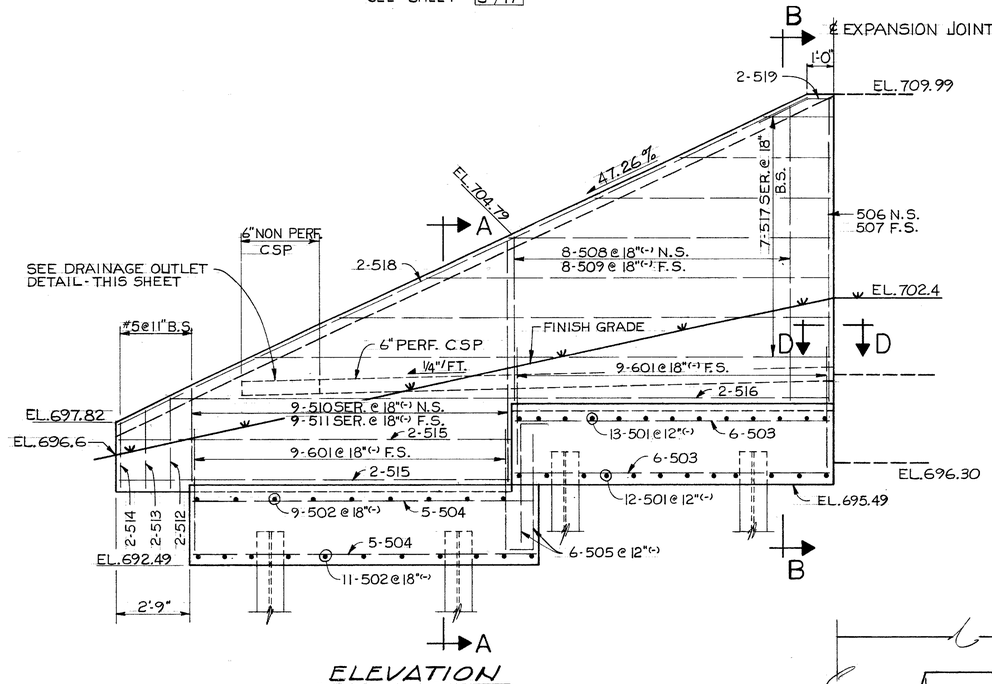
N.S. = NEAR SIDE
F.S. = FAR SIDE
SHOWS BATTERED PILE
FOR PILE PLAN SEE SHEET 3/17



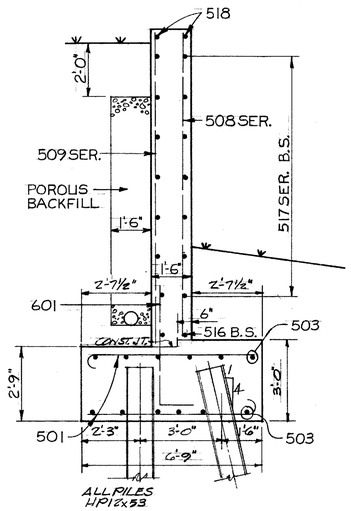
SECTION A-A



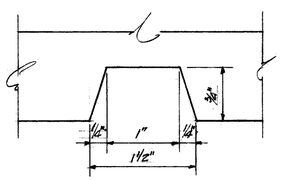
DETAIL OF DRAINAGE OUTLET



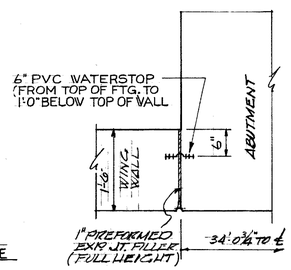
ELEVATION



SECTION B-B



SECTION C-C
TYPICAL RUSTICATION GROOVE



SECT. D-D

NOTE
PREFIX "2EW" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR EAST WINGWALL, ABUTMENT NO. 2.

RUSTICATION GROOVES ARE 4'-0" ± NOMINALLY.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

9/17

GLAUS, PYLE & SCHOMER
AKRON, OHIO — YOUNGSTOWN, OHIO

EAST WING WALL ABUT. Nº 2
BRIDGE Nº COL-30-3560

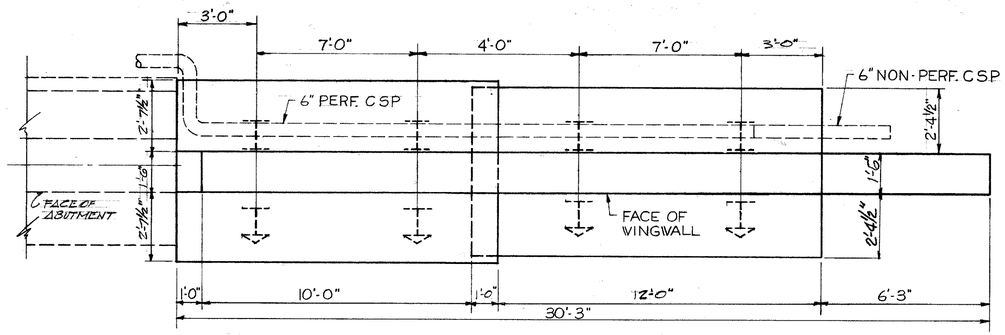
JACKSON ST. OVER U.S. 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	ALW		RAH	WKD	6-4-76	

FED. RD.	STATE	PROJECT	
5	OHIO		

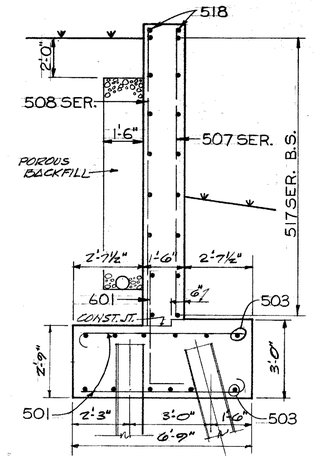
COL-30-35.29

287
362

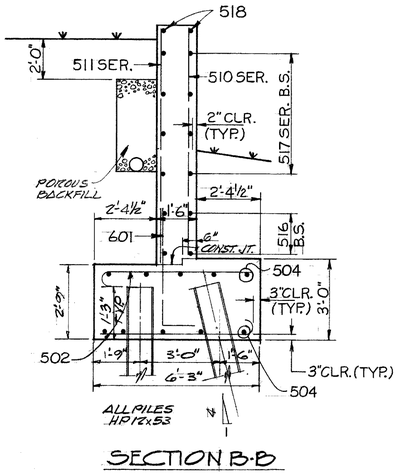


PLAN

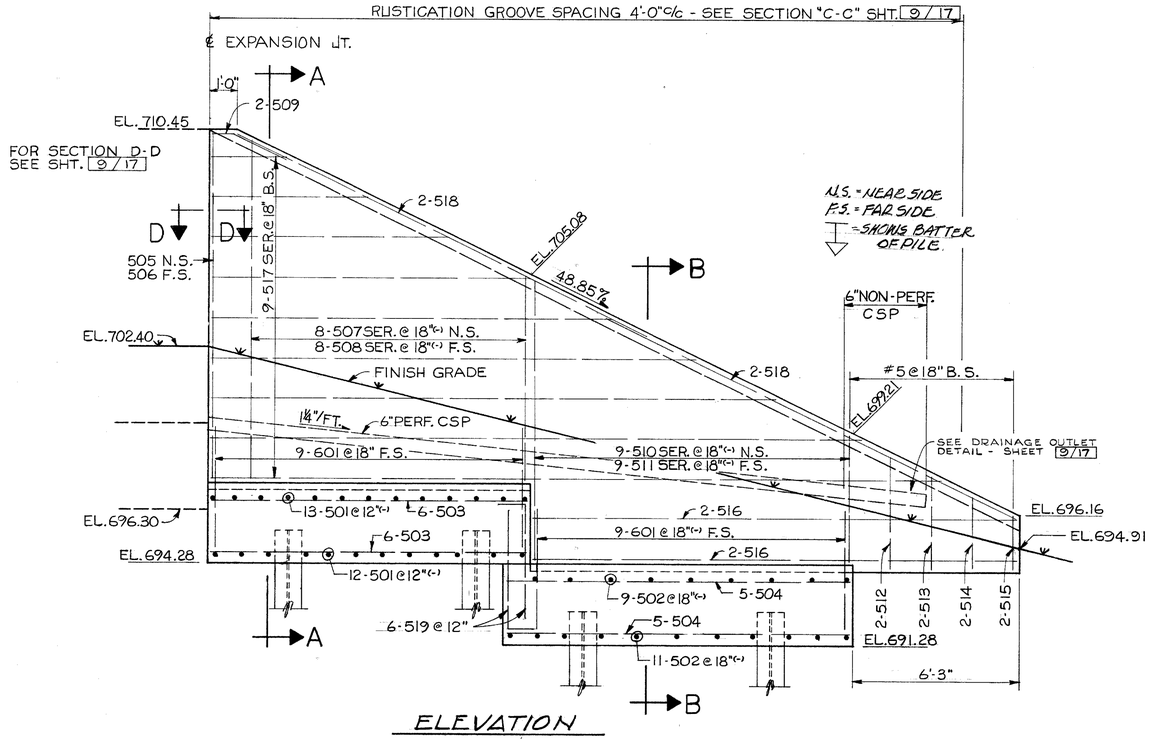
FOR PILE PLAN SEE SHT. 4/17



SECTION A-A



SECTION B-B



ELEVATION

NOTE
PREFIX "2WW" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR WEST WINGWALL, ABUTMENT NO. 2.

RUSTICATION GROOVES ARE 4'-0" ℄ NOMINALLY.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

10/17

GLAUS, PYLE & SCHOMER
AKRON, OHIO — YOUNGSTOWN, OHIO

WEST WING WALL ABUT. Nº 2
BRIDGE Nº COL-30-35.00

JACKSON ST. OVER US 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	RLW		RAH	WKD	6-4-76	

FED. RD.	STATE	PROJECT	
5	OHIO		

COL-30-35.29

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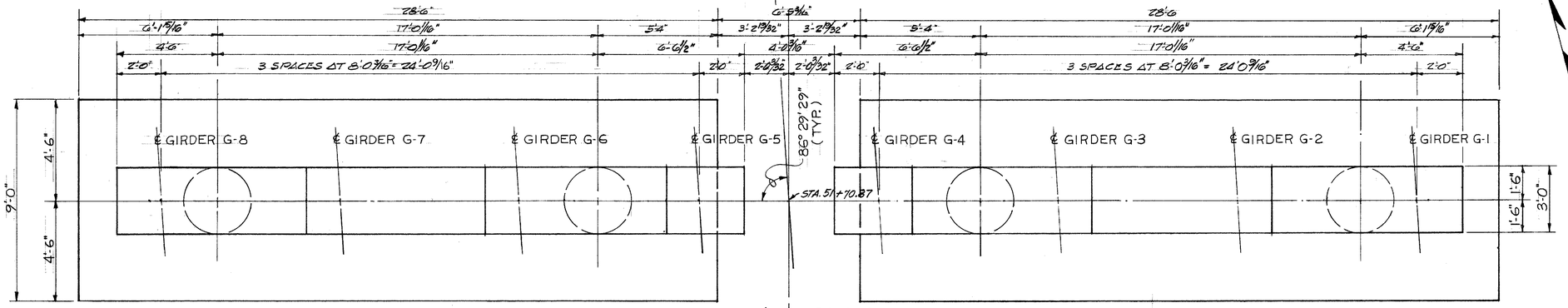
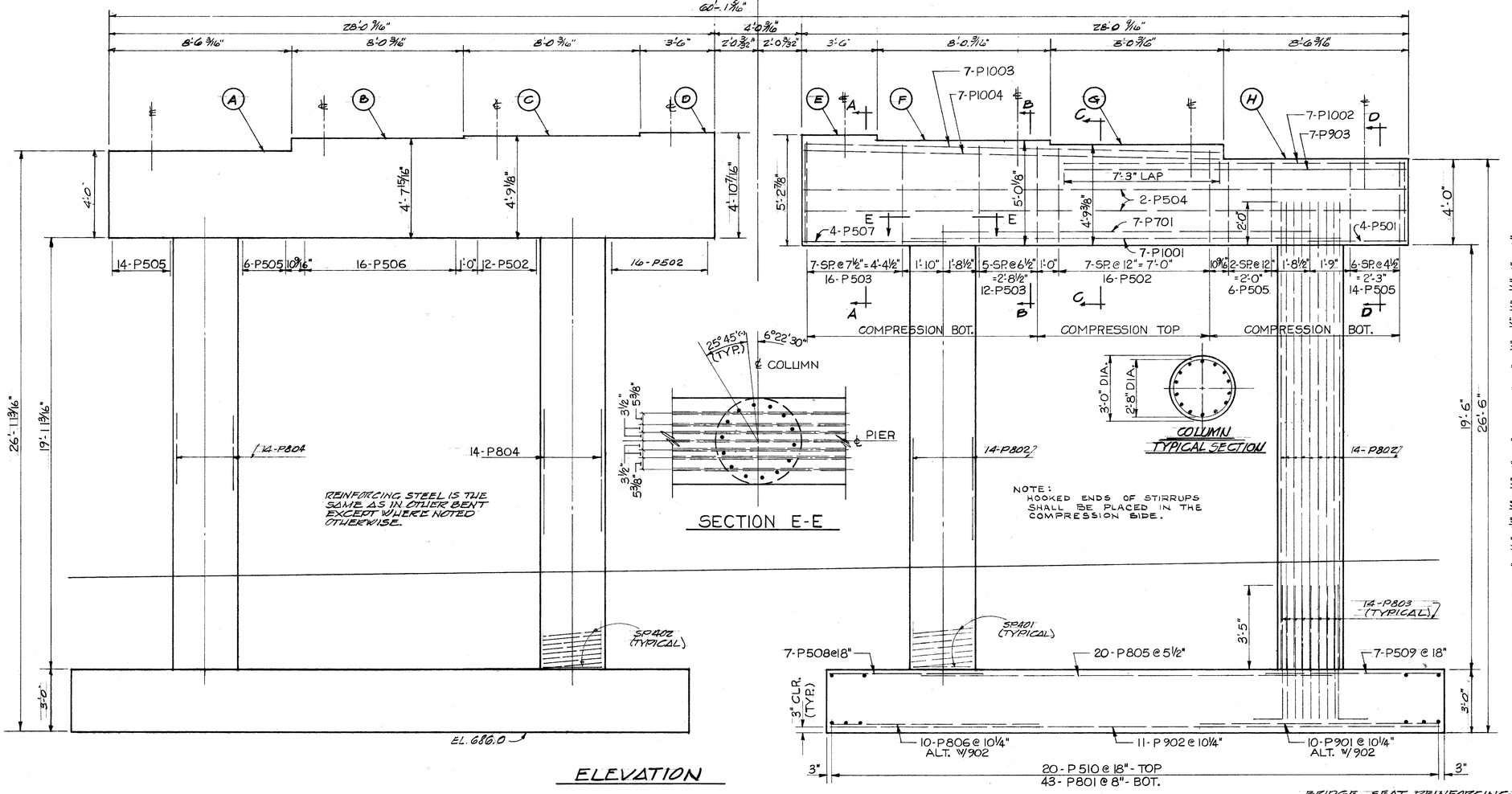
362

℄ JACKSON STREET

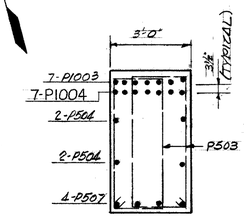


PLAN

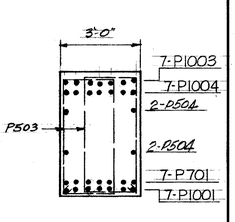


ELEVATION

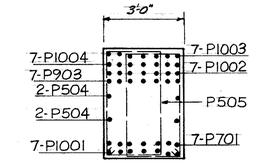
SECTION E-E



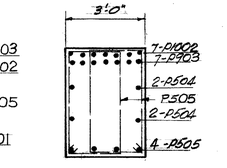
SECTION A-A



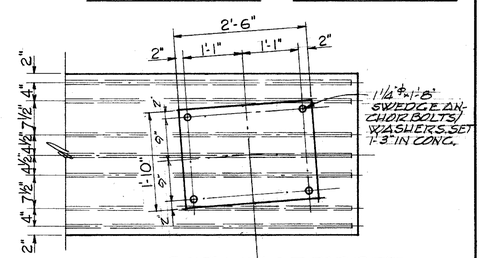
SECTION B-B



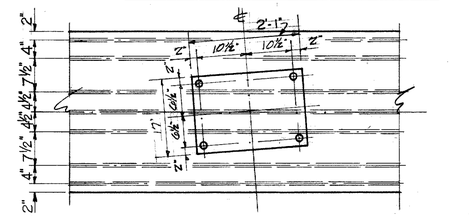
SECTION C-C



SECTION D-D



BOLT LAY-OUT FOR BOLSTERS FOR EXT. GIRDERS



BOLT LAY-OUT FOR BOLSTERS FOR INTER. GIRDERS

NOTE:
HOOKED ENDS OF STIRRUPS SHALL BE PLACED IN THE COMPRESSION SIDE.

COLUMN TYPICAL SECTION

BRIDGE SEAT REINFORCING:
SPECIAL CARE SHALL BE TAKEN IN PLACING REINFORCING STEEL UNDER BOLSTERS SO AS TO AVOID INTERFERENCE WITH DRILLING OF ANCHOR BOLT HOLES.

LOCATION	A	B	C	D	E	F	G	H
ELEVATION	712.93	713.59	713.69	713.80	713.74	713.51	713.28	712.50

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

11/17

GLAUS, PYLE & SCHOMER
AKRON, OHIO — YOUNGSTOWN, OHIO

PIER DETAIL
BRIDGE Nº COL-30-3560

JACKSON ST. OVER U.S. 30
STA. 50+73.61 TO STA. 52+54.11

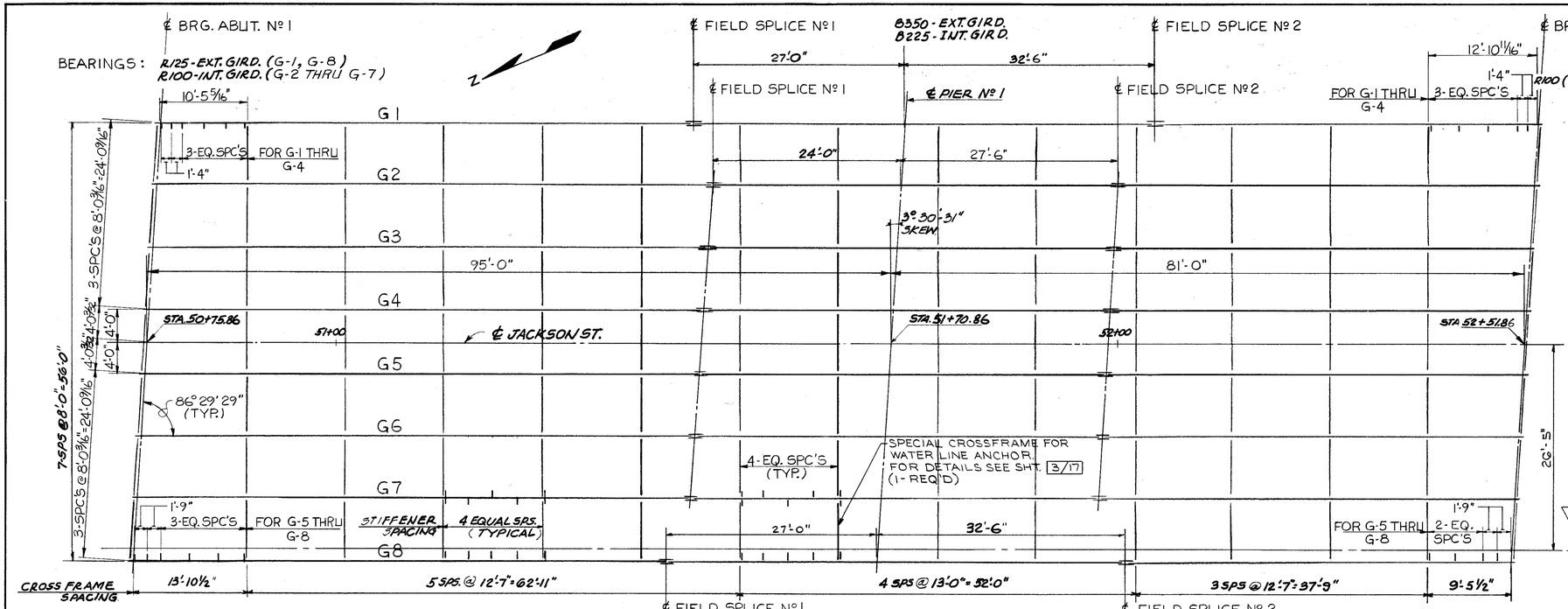
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	ALW		RAH	WKD	4-17	

FHWA REGION	STATE	PROJECT	
5	OHIO		

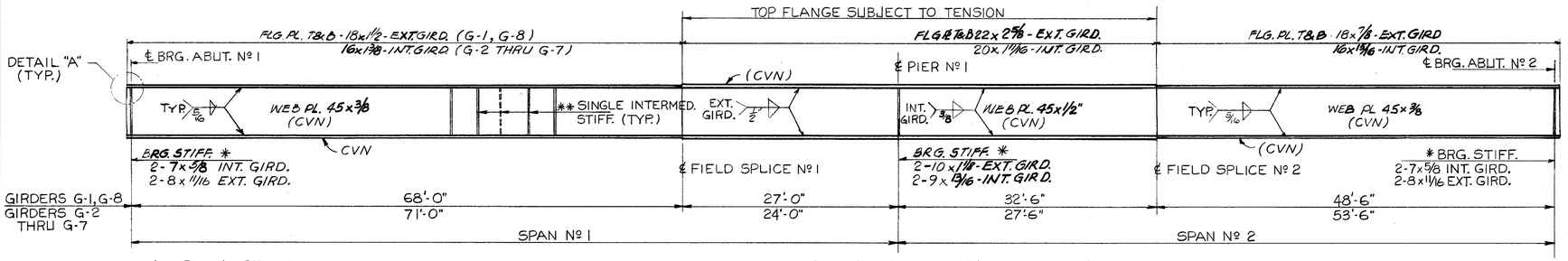
289
362

COL-30-3529

BEARINGS: R125-EXT. GIRD. (G-1, G-8)
R100-INT. GIRD. (G-2 THRU G-7)



FRAMING PLAN

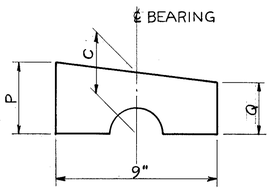


* TRUE VERTICAL
** LOCATED INSIDE FOR G-1 & G-8, ON ALTERNATE SIDES FOR G-2 THRU G-7

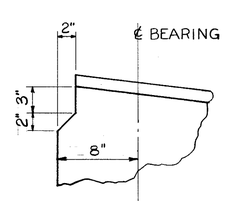
GIRDER ELEVATION

NOTES

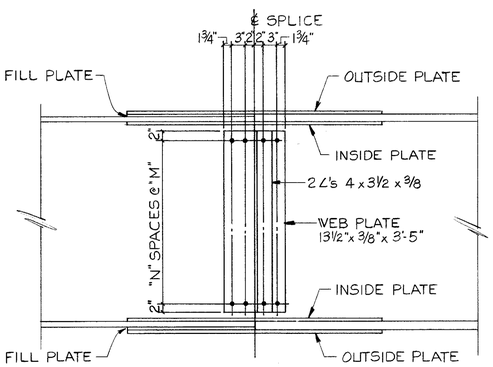
1) ALL STRUCTURAL STEEL SHALL BE ASTM A-36 UNLESS NOTED OTHERWISE.
2) WHERE A SHAPE OR PLATE IS DESIGNATED (CVN) THE MATERIAL SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.
3) BEARINGS SHALL BE IN ACCORDANCE WITH STD. DRWG. NO. RB-1-55 EXCEPT THAT UPPER PLATE ELEMENT SHALL BE BEVELED AS SHOWN ON THIS SHEET. TABULATED PLATE THICKNESS "C" SHALL APPLY AT CENTERLINE OF PLATE.
4) STEEL ERECTION: DURING THE ERECTION OF SUPPORT/ARMOR FOR THE EXPANSION JOINT SEAL, CARE SHALL BE TAKEN TO INSURE THAT STRINGERS, BEARINGS PARTS AND BRIDGE SEATS REMAIN IN BEARING CONTACT.
5) HIGH STRENGTH BOLTS SHALL BE 1" DIAMETER A325, UNLESS OTHERWISE NOTED.
6) FOR END CROSSFRAMES AND EXPANSION JOINT DETAILS, SEE SHT. NO. 13/17.
7) FOR WATER LINE SUPPORT DETAILS SEE SHT. 15/17



UPPER PLATE

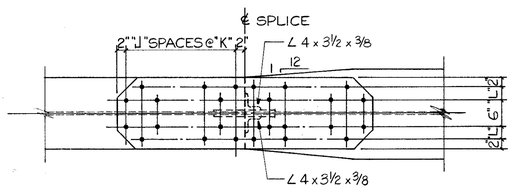


DETAIL "A"



WEB SPLICE DETAILS

LOCATION	OUTSIDE PLATE	INSIDE PLATE	FILL PLATE	N	M	J	K	L
F.S. 1 - G-2 THRU G-7	16" x 3/4" x 4'-9"	7" x 13/16" x 4'-9"	16" x 5/16" x 2'-4-1/2"	8	4-5/8"	7	3-1/2"	3"
F.S. 2 - G-2 THRU G-7	16" x 1/2" x 3'-7"	7" x 1/2" x 3'-7"	16" x 3/4" x 1'-9-1/2"	8	4-5/8"	5	3-1/2"	3"
F.S. 1 - G-1, G-8	18" x 13/16" x 5'-11"	8" x 7/8" x 5'-11"	18" x 1-1/8" x 2'-11-1/2"	8	4-5/8"	9	3-1/2"	4"
F.S. 2 - G-1, G-8	18" x 1/2" x 4'-9"	8" x 1/2" x 4'-9"	18" x 1-3/4" x 2'-4-1/2"	10	3-5/8"	7	3-1/2"	4"



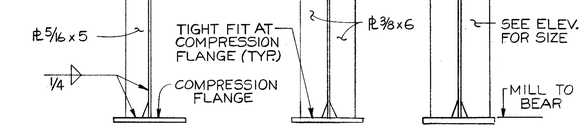
FLANGE SPLICE DETAILS

SUBSTRUCTURE	BEARING	C	P	Q
ABUT. Nº 1	R-125	3"	3 13/32"	2 19/32"
	R-100	2 1/2"	2 23/32"	2 3/32"
PIER Nº 1	B-350	4"	4 9/16"	3 7/16"
	B-225	3 1/2"	4 1/16"	2 15/32"
ABUT. Nº 2	R-100	2 1/2"	3 1/16"	1 15/32"

BEARING B-350

BOLSTER Nº	ROCKER Nº	DIMENSIONS (INCHES) A	B	C	D	F	G	H	K	L	M	R	T	Y	MAXIMUM LOAD (LB.)
B-350	R-350	3 1/2	22	4	3 1/2	3/4	14	21 5/8	14	30	27	14	3 1/2	11 11/16	350,000

FOR OTHER DETAILS, SEE STD. DWG. Nº RB-1-55



INTERMEDIATE STIFFENER | INTERMEDIATE STIFFENER AT - CROSS FRAME LOCATIONS | BEARING STIFFENERS

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

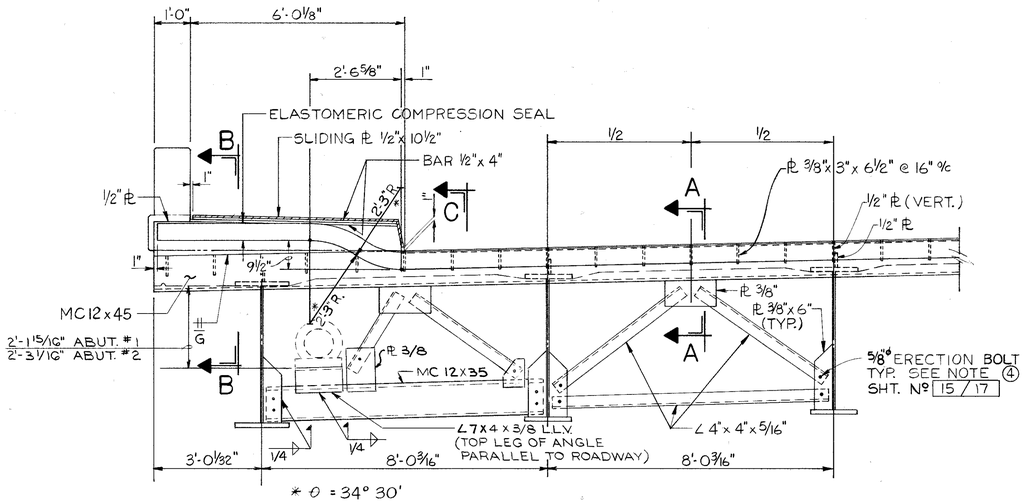
12 / 17

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

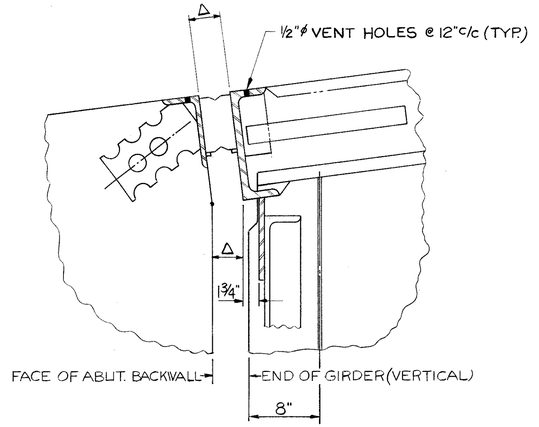
FRAMING PLAN

BRIDGE Nº COL-30-3560
JACKSON ST. OVER U.S. 30
STA. 50 + 73.61 TO STA. 52+54.11

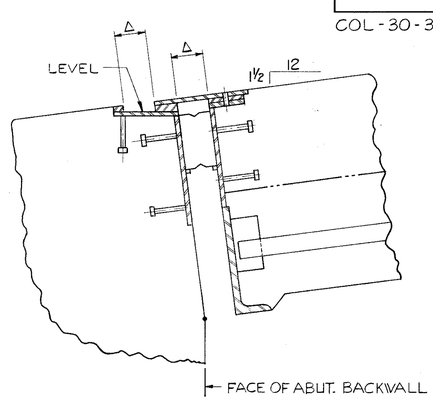
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	RLW		RAH	WKD	6-4-76	



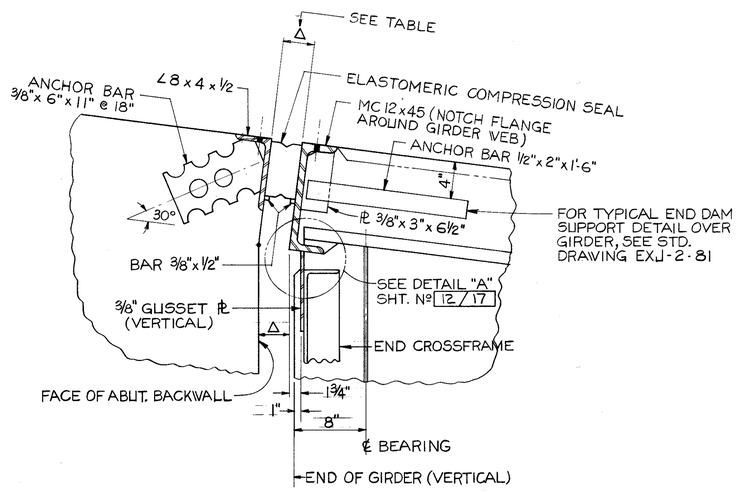
END CROSS FRAME AND EXPANSION JOINT DETAILS



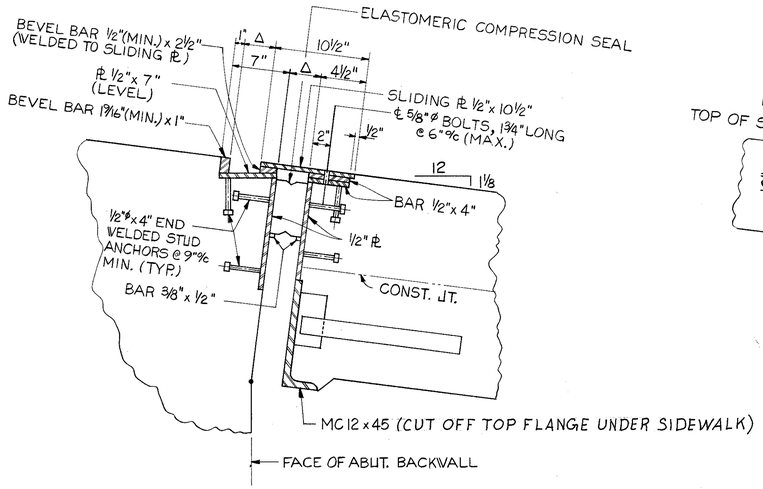
SECTION A-A
(ABUTMENT Nº 2)



SECTION B-B
(ABUTMENT Nº 2)

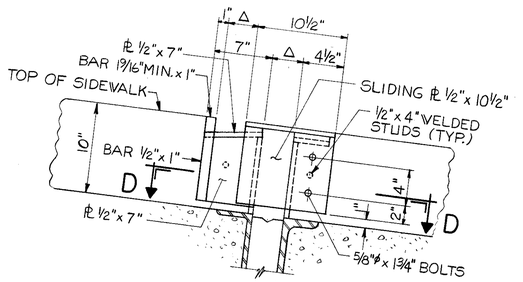


SECTION A-A
(ABUTMENT Nº 1)

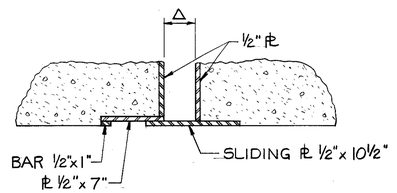


SECTION B-B
(ABUTMENT Nº 1)

TEMPERATURE @ INSTALLATION (°F)	Δ (IN.)	
	@ ABUT. Nº 1	@ ABUT. Nº 2
90	3 1/4	3 5/16
80	3 3/8	3 3/8
70	3 7/16	3 7/16
60	3 1/2	3 1/2
50	3 9/16	3 9/16
40	3 5/8	3 5/8
30	3 3/4	3 11/16
20	3 13/16	3 3/4



VIEW - "C"
ABUTMENT Nº 1 SHOWN
ABUTMENT Nº 2 SIMILAR



SECTION D-D

EXPANSION JOINT SYSTEM

1) REFERENCE SHALL BE MADE TO SUPPLEMENTAL SPECIFICATION 849 FOR INSTALLATION PROCEDURES, MATERIAL REQUIREMENTS AND MANUFACTURING CONTROL.
2) FOR ADDITIONAL DETAILS, MATERIAL REQUIREMENTS AND CONNECTION PROCEDURES, SEE STD. DRWG. EXJ-2-81.
3) STEEL MEMBERS SHALL BE FURNISHED IN LENGTHS AS LONG AS PRACTICABLE. SEE STD. DRWG. EXJ-2-81 FOR JOINTS IN END DAM ARMOR.
4) SEE STD. DRWG. EXJ-1-81 FOR PAVEMENT DETAILS NOT SHOWN.
5) MEASUREMENT FOR PAY PURPOSES SHALL BE BASED ON THE SEALED LENGTHS OF THE JOINTS MEASURED HORIZONTALLY ALONG THE JOINT CENTERLINE. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE JOINT IN PLACE, INCLUDING THE JOINT ARMOR, STEEL SUPPORT ANGLES, CHANNELS AND PLATES, ANCHORING DEVICES AND END CROSSFRAME GUSSET PLATES ARE INCLUDED WITH ITEM 516 "STRUCTURAL EXPANSION JOINTS INCLUDING ELASTOMERIC COMPRESSION SEALS".

GPD — GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

13/17

EXPANSION JOINT DETAILS

BRIDGE Nº COL-30-3560
JACKSON ST. OVER U.S. 30

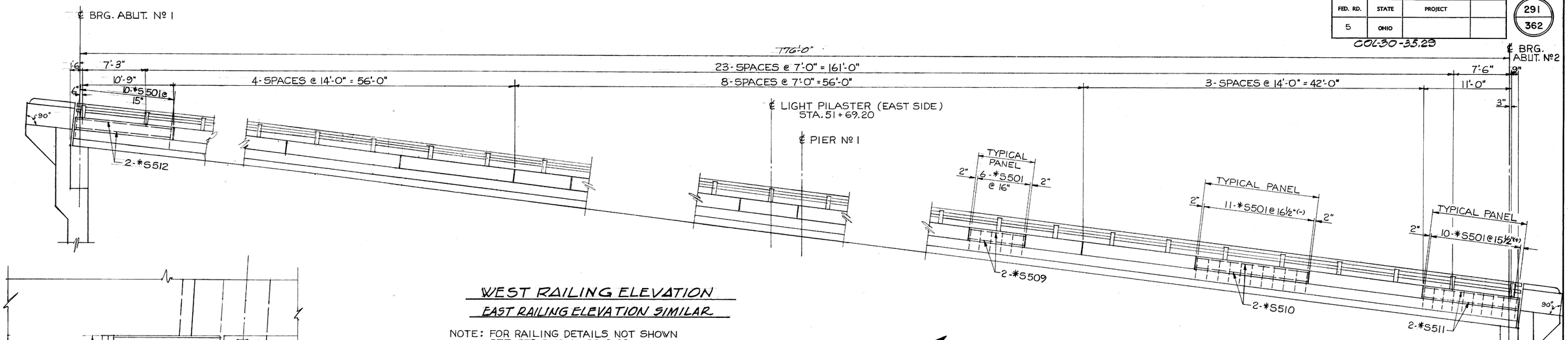
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	RLW		JRS	RDH	7-13-84	

FED. RD.	STATE	PROJECT	
5	OHIO		

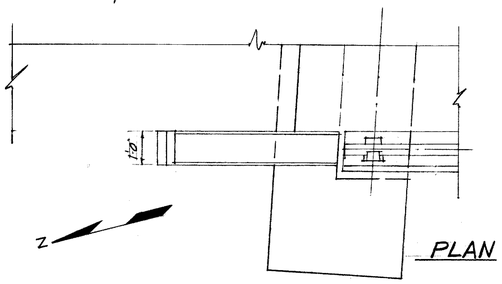
COL-30-35.29

291
362

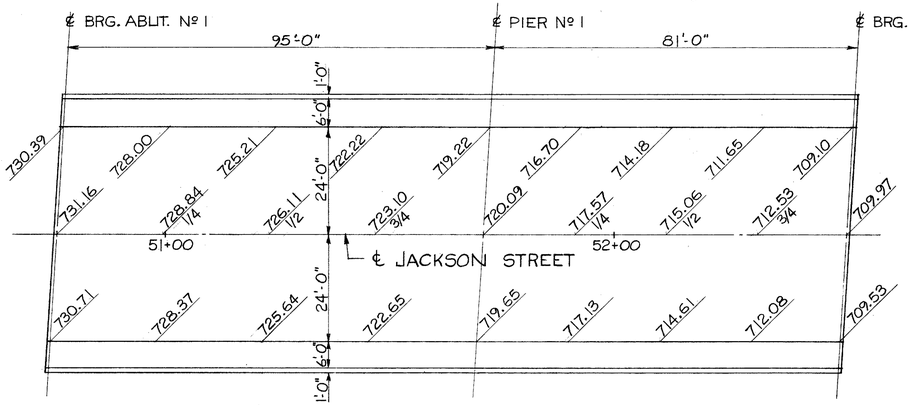


WEST RAILING ELEVATION
EAST RAILING ELEVATION SIMILAR

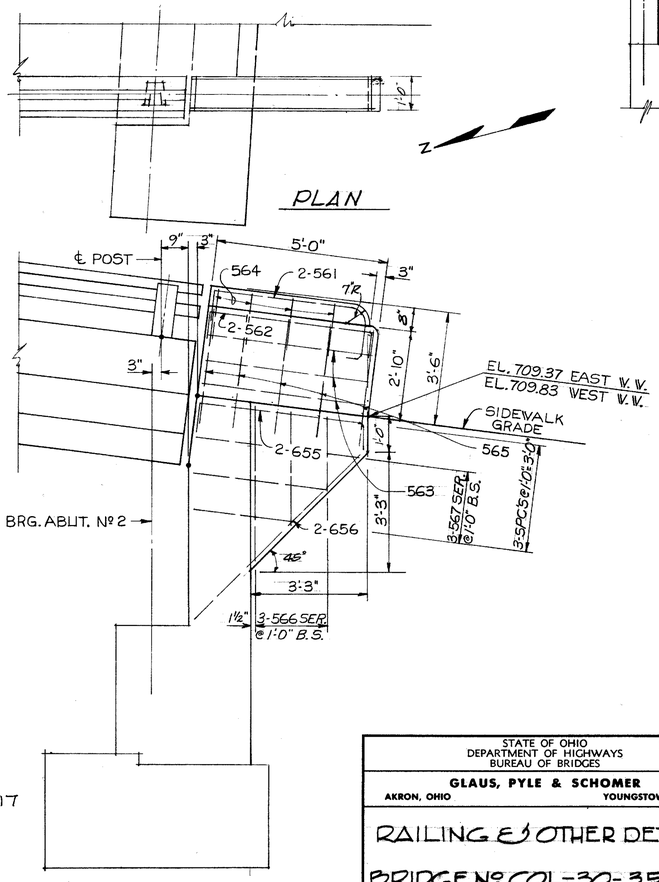
NOTE: FOR RAILING DETAILS NOT SHOWN SEE STD. DWG. Nº BR-2-82



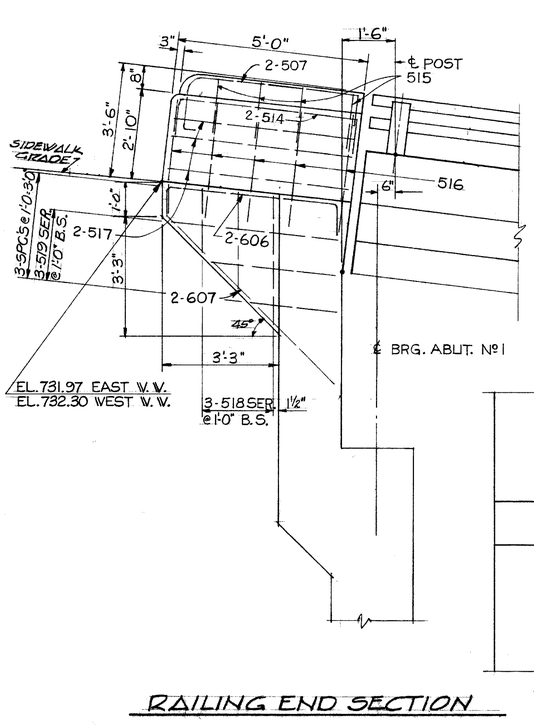
PLAN



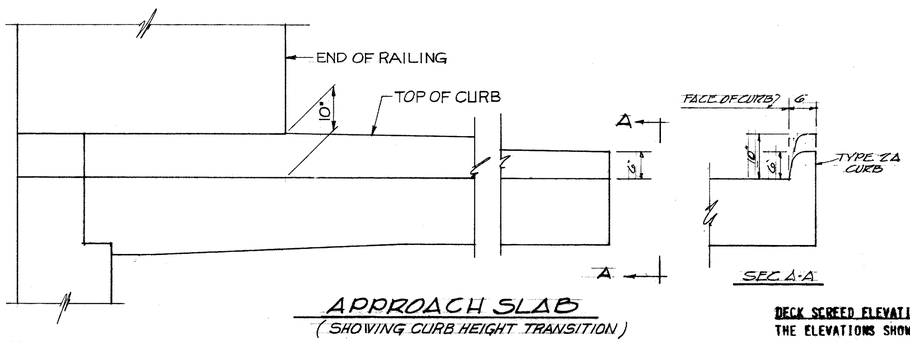
DECK SCREED ELEVATIONS



RAILING END SECTION



RAILING END SECTION



APPROACH SLAB
(SHOWING CURB HEIGHT TRANSITION)

▲ See Note on sht. 15 of 17

DECK SCREED ELEVATIONS

THE ELEVATIONS SHOWN AT TOP OF PORTLAND CEMENT CONCRETE ARE THOSE WHICH ARE REQUIRED BEFORE THE CONCRETE DECK IS PLACED. PROPER ALLOWANCE HAS BEEN MADE FOR THE DEAD LOAD DEFLECTION CAUSED BY THE WEIGHT OF THE CONCRETE. FOR SCREED ELEVATION LOCTIONS, SEE TRANSVERSE SECTION, SHT. NO. 15/17.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

14 / 17

GLAUS, PYLE & SCHOMER
AKRON, OHIO — YOUNGSTOWN, OHIO

RAILING & OTHER DETAILS

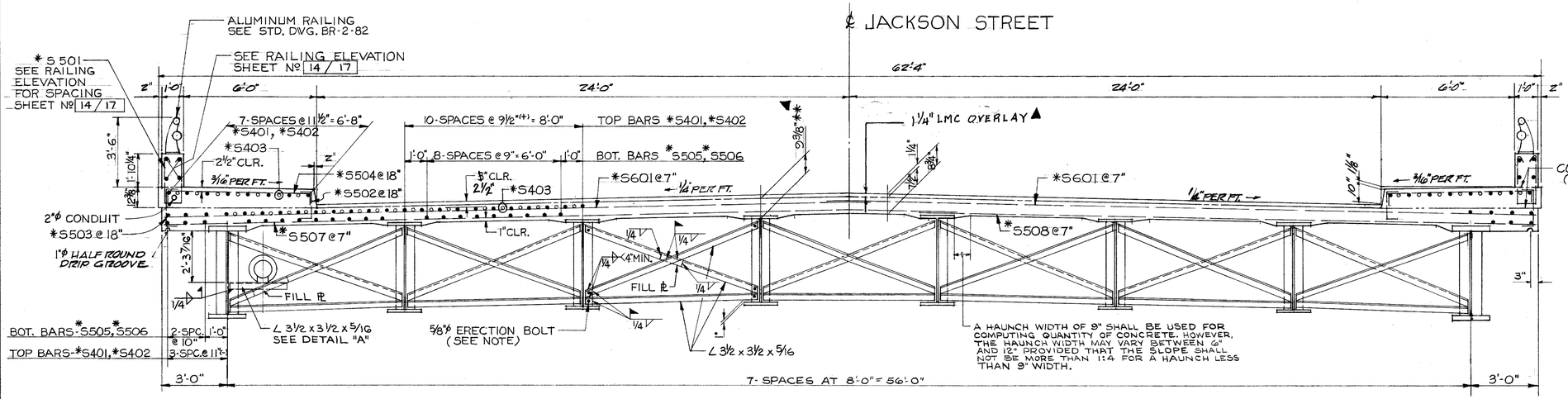
BRIDGE Nº COL-30-35.60
JACKSON ST. OVER US 30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	ALW		RAH	WKD	6-4-76	

FED. RD.	STATE	PROJECT	
5	OHIO		

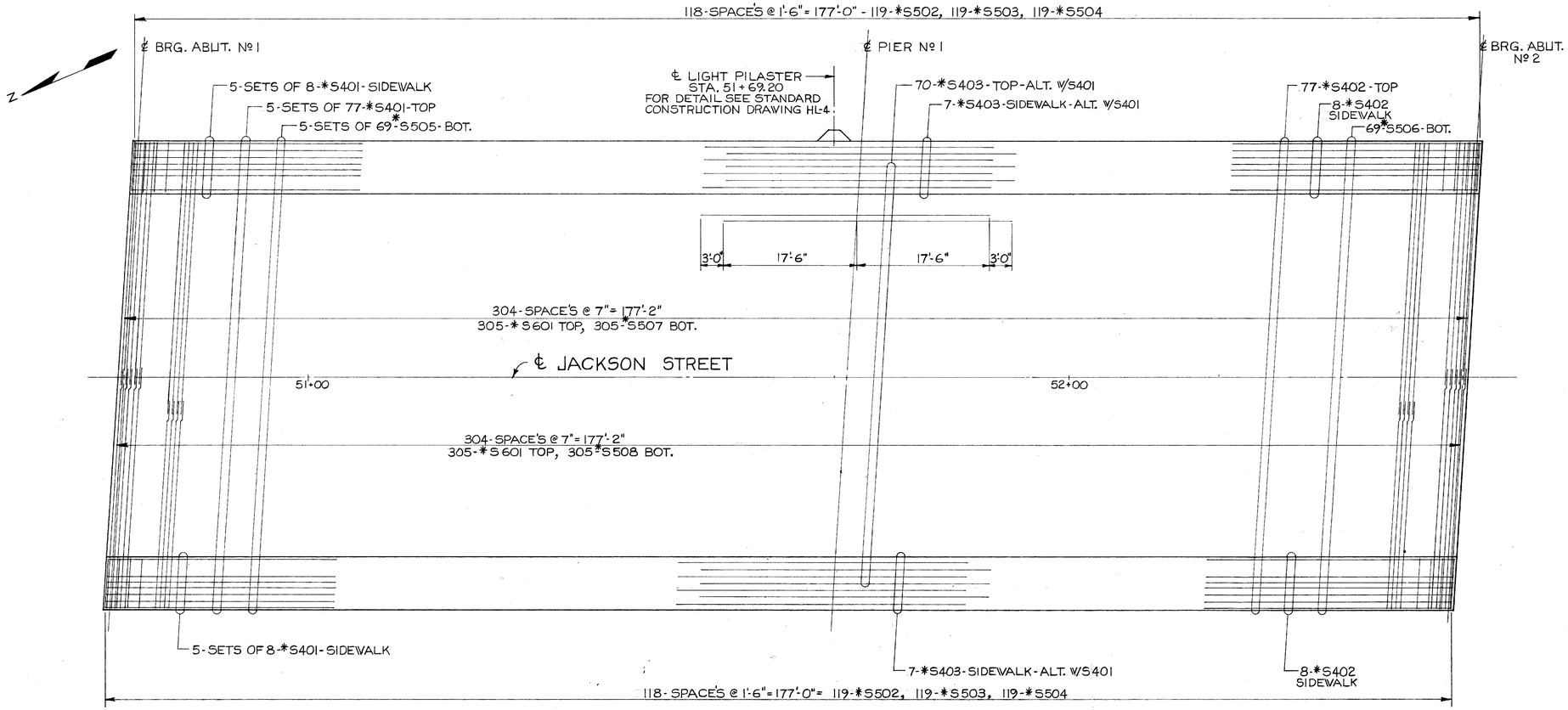
292
362

COL-30-35.29

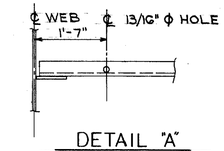


** - THIS IS THE DESIGN DIMENSION. THE QUANTITY OF CLASS "S" DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE GIRDER MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE. DEDUCTION SHALL BE MADE FOR VOLUME OF ENCASED STEEL PLATES AS PER 511.18.

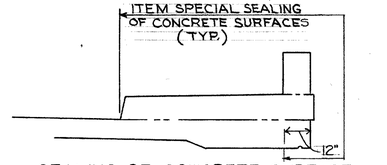
TYPICAL SECTION



SLAB REINFORCING PLAN



DETAIL "A"



SEALING OF CONCRETE SURFACE

NOTES

1) REINFORCING STEEL SHOWN THUS (*) TO BE EPOXY COATED.
2) A HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12" PROVIDED THAT THE SLOPE SHALL NOT BE MORE THAN 1:4 FOR A HAUNCH LESS THAN 9" WIDTH.
3) ERECTION BOLTS: HOLE DIAMETER IN THE CROSSFRAMES AND GIRDER STIFFENERS SHALL BE RESPECTIVELY 1/16" AND 1/4" LARGER THAN THE DIAMETER OF THE ERECTION BOLTS. UNLESS REPLACED BY PERMANENT HIGH STRENGTH BOLTS, ERECTION BOLTS SHALL REMAIN IN PLACE. LOCK WASHERS SHALL BE FURNISHED FOR OTHER THAN FULLY TORQUED HIGH STRENGTH ERECTION BOLTS. BOLTS SHALL BE FURNISHED AS PART OF 513.
IN LIEU OF ERECTION BOLTS AND AT THE OPTION OF THE CONTRACTOR, ALTERNATIVE MEANS OF TEMPORARY BRACING MAY BE USED SUBJECT TO THE APPROVAL OF THE DIRECTOR (501.06).

MINIMUM SPLICE LENGTH
#4 BARS - 1'-4"
#5 BARS - 1'-8"

▲ These plans were developed using an LMC overlay on top of a new Class S concrete deck. However, the LMC overlay shall not be used as part of this project. The 1¼" shall be replaced w/ Class S concrete making an 8¾" thick monolithic Class S concrete deck. It will be the Contractor's responsibility to adjust all screed elevations and any other elevations affected by this change.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES
15/17

GLAUS, PYLE & SCHOMER
AKRON, OHIO YOUNGSTOWN, OHIO

SLAB REINFORCING PLAN
BRIDGE Nº COL-30-35560

JACKSON ST. OVER US30
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	RLW		RAH	WKD	6-4-76	

REV. 4-12-90

ABUTMENT NO. 1

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1A501	152	17' 9"	ST					2,814
1A502	10	4' 9"	102	2' 6"	2' 4"			50
1A503	10	6' 8"	ST					70
1A504	96	5' 3"	103	3' 5"	1' 0"			526
1A505	10	18' 8"	ST					195
1A506	10	19' 0"	ST					198
1A507	4	6' 8"	124	4' 5"				28
1A508	10	4'11"	103	3' 5"	0'10"			51
1A509	10	4' 0"	ST					42
1A510	5	19' 1"	ST					100
1A511	11	19' 4"	ST					222
1A512	14	19' 6"	ST					285
1A513	4	9' 8"	ST					40
1A514	4	6' 6"	103	4' 8"	1' 0"			27
1A515	8	3' 5"	103	0' 7"	1' 6"			29
1A516	10	8' 7"	122	3' 6"				90
1A517	12	4' 8"	ST					58
1A518S	4 SETS OF 3	1' 9" TO 3' 9"	ST				1' 0"	34
1A519S	4 SETS OF 3	2' 4" TO 4' 7"	ST				1' 1 1/2"	43
1A601	14	12'11"	115	8' 3"	3' 6"	1' 3"		272
1A602	69	13' 0"	101	12' 4"				1,347
1A603	52	30' 0"	ST					2,343
1A604	14	10' 3"	104	1' 0"	8' 0"	1' 6"		216
1A605	26	12' 0"	ST					469
1A606	4	6' 4"	125	0' 6"				38
1A607	4	7' 6"	105	6' 8"	0'10"	0' 7"		45
1A608	50	10' 2"	104	0'11"	7' 0"	2' 6"		754
1A609	50	11' 0"	115	6' 4"	3' 6"	1' 3"		826
1A801	34	5' 9"	117	3' 6"	1' 1"	0' 6"		522
1A1001	64	8' 9"	102	7' 2"	1' 9 3/8"			2,410
1A1002	64	19' 0"	ST					5,232
1A1003	62	14' 0"	102	12' 5"	1' 9 3/8"			3,735
1A1004	102	15'10"	100	13' 0"				6,949
						TOTAL		30,070

EAST WINGWALL - ABUT. NO.1

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1EW501S	2 SETS OF 12	12' 9" TO 9' 6"	123				0' 3 1/2"	278
1EW502	8	6' 2"	ST					51
1EW503	32	5' 7"	102	4' 8"	1' 0"			186
1EW504S	1 SET OF 20	18' 4" TO 10' 8"	ST				0' 4 7/8"	302
1EW505S	1 SET OF 14	25' 5" TO 19' 9"	ST				0' 5 1/4"	330
1EW506	14	19' 0"	123					277
1EW507	14	19' 8"	123					287
1EW508	1	14'10"	123					15
1EW509	1	9' 7"	123					10
1EW510	1	20' 5"	123					21
1EW511S	2 SETS OF 11	11' 3" TO 9' 1"	123				0' 2 5/8"	233
1EW512	6	5' 9"	ST					36
1EW513	2	6' 1"	105	4' 6"	1' 7"	1' 5"		13
1EW514	2	4' 5"	ST					9
1EW515S	2 SETS OF 9	13' 6" TO 10'10"	123				0' 4"	228
1EW516	9	4' 6"	ST					42
1EW517S	1 SET OF 9	15'11" TO 13' 6"	ST				0' 3 5/8"	138
1EW518S	1 SET OF 9	12'10" TO 10' 5"	ST				0' 3 5/8"	109
1EW519	2	11' 8"	123					24
1EW520	2	11' 4"	123					24
1EW521	3	19' 8"	123					62
1EW522	3	19' 0"	123					59
1EW523	3	23' 3"	123					73
1EW524	3	22' 6"	123					70
1EW525	1	19' 9"	123					21
1EW526	1	9' 9"	123					10
1EW527	1	19' 2"	123					20
1EW528	9	7' 1"	101	6' 6"				66
1EW529S	2 SETS OF 7	9' 0" TO 7' 8"	123				0' 2 5/8"	122
1EW530S	1 SET OF 8	10' 0" TO 9' 9"	ST				0' 0 3/8"	82
1EW531S	1 SET OF 8	7' 0" TO 5' 8"	ST				0' 2 1/4"	53
1EW532	2	8' 0"	123					17
1EW533	1	9' 5"	123					10
1EW534	1	5' 6"	123					6
1EW535	1	5' 4"	123					6
1EW536	2	19'10"	123					41
1EW537	1	23' 0"	123					24
1EW538	2	3' 0"	ST					6
1EW539	2	3' 9"	ST					8
1EW540	1	4'10"	123					5
1EW541	1	14' 4"	123					15
1EW542	1	9' 3"	123					10
1EW543	1	4' 8"	123					5

EAST WINGWALL - ABUT. NO.1

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1EW601	18	6' 0"	ST					162
1EW602	14	6' 2"	ST					130
1EW603	32	6' 2"	101	5' 6"				296
1EW604	18	4'10"	ST					131
1EW605	9	7' 2"	101	6' 6"				97
1EW606	8	8' 7"	118	7' 8"	1' 0"			103
1EW701	19	16' 0"	ST					621
1EW702	10	7' 9"	101	6'11"				158
1EW703	8	5' 6"	118	4' 8"	1' 0"			90
1EW704	9	8' 6"	118	7' 8"	1' 0"			156
1EW705	8	8'10"	ST					144
1EW801	12	8' 5"	101	7' 6"				270
1EW1001	16	9' 1"	101	7' 8"				625
1EW1002	19	9' 5"	118	6' 8"	3' 0"			770
1EW1003	20	14' 5"	118	11' 8"	3' 0"			1,241
1EW1004	12	8' 4"	101	6'11"				430
							TOTAL	8,828

WEST WINGWALL - ABUT. NO.1

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1WW501S	2 SETS OF 12	12' 9" TO 9' 6"	123				0' 3 1/2"	278
1WW502	19	6' 2"	ST					122
1WW503S	1 SET OF 17	26' 6" TO 20' 4"	ST				0' 4 5/8"	415
1WW504S	1 SET OF 24	19' 7" TO 13' 4"	ST				0' 3 1/4"	412
1WW505	1	25' 3"	123					26
1WW506	1	24' 5"	123					25
1WW507S	2 SETS OF 10	15' 8" TO 12' 5"	123				0' 4 3/8"	293
1WW508	11	5' 8"	ST					65
1WW509	10	5' 0"	ST					52
1WW510S	1 SET OF 6	17' 0" TO 15' 5"	ST				0' 3 3/4"	101
1WW511S	1 SET OF 6	11' 9" TO 10' 2"	ST				0' 3 3/4"	69
1WW512S	1 SET OF 9	12' 3" TO 10' 8"	ST				0' 2 3/8"	108
1WW513S	1 SET OF 9	9' 2" TO 7' 6"	ST				0' 2 1/2"	78
1WW514	14	7' 1"	101	6' 6"				103
1WW515S	2 SETS OF 9	9' 2" TO 7' 4"	123				0' 2 3/4"	155

WEST WINGWALL - ABUT. NO.1

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1WW516S	2 SETS OF 7	13' 2" TO 11' 3"	123				0' 3 7/8"	178
1WW517	2	4' 3"	ST					9
1WW518	2	7' 8"	105	6' 8"	1' 0"	0'11"		16
1WW519	14	23' 8"	123					346
1WW520	14	22'11"	123					335
1WW521	1	21' 6"	123					22
1WW522	1	20'10"	123					22
1WW523	1	15' 3"	123					16
1WW524	1	14' 9"	123					15
1WW525	2	9' 9"	123					20
1WW526	2	9' 5"	123					20
1WW527	1	5' 0"	123					9
1WW528	1	4'10"	123					5
1WW529	2	7' 0"	123					16
1WW530	2	7' 6"	123					16
1WW531	3	19' 9"	123					62
1WW532	3	19' 1"	123					60
1WW533	1	21' 5"	123					23
1WW534	1	21' 0"	123					22
1WW535	3	25' 0"	123					78
1WW536	3	24' 1"	123					76
1WW537	1	21' 1"	123					22
1WW538	1	20' 6"	123					21
1WW539	1	3' 9"	123					4
1WW540	1	3' 8"	123					4
1WW541	1	8' 0"	123					8
1WW542	1	6' 0"	123					6
1WW543	1	24' 6"	123					26
1WW544	1	23' 9"	123					25
1WW545	32	5' 7"	102	4' 8"	1' 0"			186
1WW601	18	6' 0"	ST					162
1WW602	20	5' 4"	ST					160
1WW603	13	6' 6"	101	5'10"				127
1WW604	9	9' 8"	101	9' 0"				131
1WW605	16	7' 2"	101	6' 6"				172
1WW606	9	8' 7"	118	7' 8"	1' 0"			116
1WW701	23	16' 0"	ST					752
1WW702	14	7' 9"	101	6'11"				222
1WW801	12	8' 5"	101	7' 6"				270
1WW802	5	7' 0"	118	6' 2"	1' 0"			93
1WW803	5	11' 0"	ST					147
1WW804	6	10' 6"	118	9' 8"	1' 0"			168
1WW1001	16	9' 1"	101	7' 8"				625
1WW1002	23	9' 5"	118	6' 8"	3' 0"			932
1WW1003	24	14' 5"	118	11' 8"	3' 0"			1,489
1WW1004	17	8' 5"	101	7' 0"				616
							TOTAL	10,148

REINFORCING STEEL

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT (IF PRESENT) AND ALPHABETICAL LETTER/ LETTERS INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES:

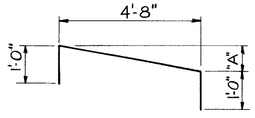
1A501
- NO. 5 SIZE BAR
- LOCATION = ABUT. NO. 1

2WW408
- NO. 4 SIZE BAR
- LOCATION = WEST WINGWALL, ABUTMENT NO. 2.

P1001
- NO. 10 SIZE BAR
- LOCATION = PIER NO. 1

SP401
- NO. 4 SIZE BAR
- LOCATION = PIER NO 1 & BAR IS A SPIRAL

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.



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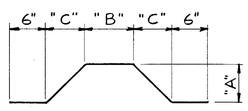
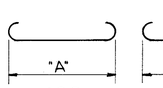


121

SPIRAL REINFORCING BARS - THE LENGTH SHOWN IN THE STEEL LIST FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE BOTTOM OF THE PIER CAP. 1-1/2 CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT. 4 STEEL ANGLE SPACERS, WEIGHING APPROXIMATELY 0.80 LBS. PER LIN. FT. OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF LBS. OF THESE SPACERS, BASED ON 0.80 LBS. PER LIN. FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS. ALL OTHER DETAILS SHALL BE IN ACCORDANCE WITH CRSI STANDARD PRACTICE.

REINFORCING STEEL SAMPLES

REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.



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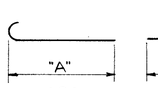

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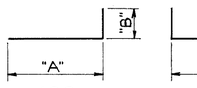

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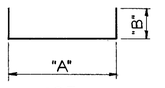

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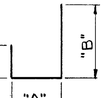

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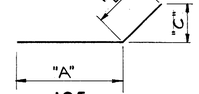

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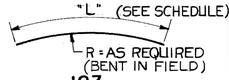

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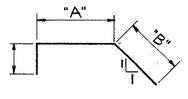
107



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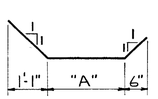

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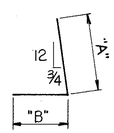

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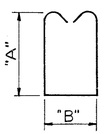

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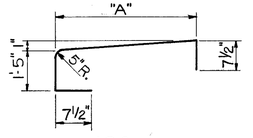

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GPD | 16/17

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE Nº COL-30-3560
JACKSON ST. OVER U.S.30

STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	RLW		JRS	RAH	7-13-84	

ABUTMENT NO. 2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2A551	46	8' 2''	103	5' 4''	1' 6''			392
2A552	46	7' 5''	102	6' 8''	0'10''			356
2A553	94	7'11''	103	3' 5''	2' 4''			776
2A554	20	11' 0''	ST					229
2A555	40	30' 0''	ST					1,252
2A556	10	7' 2''	103	2' 4''	2' 6''			75
2A557	10	6' 3''	ST					65
2A558	10	4' 0''	ST					42
2A559	10	4' 2''	102	3' 5''	0'10''			43
2A560	4	9' 8''	ST					40
2A561	4	6' 8''	124	4' 5''				28
2A562	4	6' 6''	103	4' 8''	1' 0''			27
2A563	12	4' 8''	ST					58
2A564	8	3' 5''	103	0' 7''	1' 6''			29
2A565	10	8' 7''	122	3' 6''				90
2A566S	4 SETS OF 3	1'11'' TO 4' 2''	ST				1' 1 1/2''	38
2A567S	4 SETS OF 3	2' 9'' TO 4' 6''	ST				0'10 1/2''	45
2A651	46	14' 4''	104	5' 4''	6' 8''	2' 7''		990
2A652	46	11' 2''	103	1' 5''	5' 0''			822
2A653	65	5'10''	103	1' 5''	2' 4''			570
2A654	65	8' 6''	103	0'11''	3'11''			830
2A655	4	6' 4''	125	0' 7''				38
2A656	4	7' 6''	105	6' 8''	0'10''	0' 7''		45
2A657	16	16' 2''	103	1' 5''	7' 6''			389
2A851	34	5' 5''	117	3' 2''				492
2A852	7	14' 6''	ST					271
2A853	14	30' 0''	ST					1,121
						TOTAL		9,153

WEST WINGWALL - ABUT. NO.2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2WW501	25	6'10''	101	6' 3''				178
2WW502	20	6' 4''	101	5' 9''				132
2WW503	12	11' 6''	ST					144
2WW504	10	12' 6''	ST					130
2WW505	1	12'10''	ST					13
2WW506	1	13' 1''	ST					14
2WW507S	1 SET OF 8	12' 7'' TO 7' 6''	ST				0' 8 3/4''	84
2WW508S	1 SET OF 8	12'10'' TO 7' 9''	ST				0' 8 3/4''	86
2WW509	2	2'10''	105	0'10''	2' 0''	1' 0''		6
2WW510S	1 SET OF 9	10' 9'' TO 4' 8''	ST				0' 9 1/8''	72
2WW511S	1 SET OF 9	11' 0'' TO 4'11''	ST				0' 9 1/8''	75
2WW512	2	4' 2''	ST					9
2WW513	2	3' 5''	ST					7
2WW514	2	2' 8''	ST					6
2WW515	2	1'11''	ST					4
2WW516	4	18' 0''	ST					75
2WW517S	2 SETS OF 9	27' 2'' TO 2'10''	ST				3' 0 1/2''	282
2WW518	4	17' 1''	ST					71
2WW519	12	5' 4''	102	4' 5''	1' 0''			67
2WW601	18	4'10''	102	3'11''	1' 0''			131
						TOTAL		1,586

EAST WINGWALL - ABUT. NO.2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2EW501	25	6'10''	101	6' 3''				178
2EW502	20	6' 3''	101	5' 8''				130
2EW503	12	11' 6''	ST					144
2EW504	10	12' 6''	ST					130
2EW505	12	5' 4''	102	4' 5''	1' 0''			67
2EW506	1	11' 2''	ST					12
2EW507	1	11' 5''	ST					12
2EW508S	1 SET OF 8	10'11'' TO 6' 4''	ST				0' 7 7/8''	72
2EW509S	1 SET OF 8	11' 3'' TO 6' 7''	ST				0' 8''	74
2EW510S	1 SET OF 9	9' 0'' TO 3' 4''	ST				0' 8 1/2''	58
2EW511S	1 SET OF 9	9' 3'' TO 3' 7''	ST				0' 8 1/2''	60
2EW512	2	3' 3''	ST					7
2EW513	2	2'10''	ST					6
2EW514	2	2' 4''	ST					5
2EW515	4	14' 6''	ST					60
2EW516	2	24' 6''	ST					51
2EW517S	2 SETS OF 7	21' 4'' TO 2' 7''	ST				3' 1 1/2''	175
2EW518	2	28' 4''	ST					59
2EW519	2	2'10''	105	0'10''	2' 0''	0'10''		6
2EW601	18	4'10''	102	3'11''	1' 0''			131
						TOTAL		1,437

PIER NO. 1

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
SP401	2	19' 6''	120	2' 8''	0' 4 1/2''			731
SP402	2	19'11''	120	2' 8''	0' 4 1/2''			746
P501	8	4' 6''	ST					36
P502	44	13' 1''	107	4' 5''	1'10''			600
P503	28	14' 1''	107	4'11''	1'10''			411
P504	8	27' 9''	ST					231
P505	40	11' 7''	107	3' 8''	1'10''			483
P506	16	12'11''	107	4' 4''	1'10''			216
P507	8	6' 6''	ST					54
P508	14	7' 0''	ST					102
P509	14	8' 0''	ST					117
P510	40	8' 6''	ST					355
P701	14	17' 0''	ST					486
P801	86	8' 6''	ST					1,952
P802	28	21' 6''	ST					1,607
P803	56	7' 3''	102	6' 1''	1' 4''			1,084
P804	28	22' 0''	ST					1,645
P805	40	19' 0''	ST					2,029
P806	20	9' 7''	ST					512
P901	20	11' 1''	ST					754
P902	22	28' 0''	ST					2,094
P903	14	15' 9''	ST					750
P1001	14	20' 0''	ST					1,205
P1002	14	19' 0''	102	15' 9''	3' 8''			1,155
P1003	14	23' 9''	102	19' 2''	4'10''			1,431
P1004	14	19' 2''	ST					1,155
						TOTAL		21,943

SLAB REINFORCING - EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
S505	345	30' 0''	ST					10,795
S506	69	35' 8''	ST					2,567
S507	305	35' 8''	ST					11,346
S508	305	27' 8''	ST					8,801
						TOTAL		33,509

SUMMARY AND GRAND TOTAL OF BAR WEIGHTS

ABUTMENT NO. 1	30,070
EAST WINGWALL - ABUT. NO.1	8,828
WEST WINGWALL - ABUT. NO.1	10,148
ABUTMENT NO. 2	9,153
EAST WINGWALL - ABUT. NO.2	1,437
WEST WINGWALL - ABUT. NO.2	1,586
PIER NO. 1	21,943
GRAND TOTAL	83,165

SLAB REINFORCING - EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
S401	465	30' 0''	ST					9,319
S402	93	34' 0''	ST					2,112
S403	84	35' 0''	ST					1,964
S501	290	6' 5''	122	2' 5''				1,941
S502	238	2' 1''	103	1' 3''	0' 6''			517
S503	238	2' 4''	103	1' 6''	0' 6''			579
S504	238	7' 6''	103	6' 8''	0' 6''			1,862
S509	64	6' 8''	ST					445
S510	56	13' 9''	ST					805
S511	8	11' 8''	ST					97
S512	8	11' 3''	ST					94
S601	610	31'10''	ST					29,166
							TOTAL	48,899

LIGHT BLISTER REINFORCING - EPOXY COATED

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
L501	4	3' 1''	103	2' 1''	0' 7''			13
L502	4	8' 5''	103	2' 1''	3' 3''			35
L503	6	8' 0''	121	2' 1''	1' 4''	2' 1''		50
L504	4	3' 3''	ST					14
							TOTAL	112

SUMMARY AND GRAND TOTAL OF BAR WEIGHTS

SLAB REINFORCING - EPOXY COATED BARS	82408
LIGHT BLISTER REINFORCING - EPOXY COATED	112
GRAND TOTAL	82 520

REV. 4-12-90

GPD | 17/17

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE Nº COL-30-3560
JACKSON ST. OVER U.S. 30

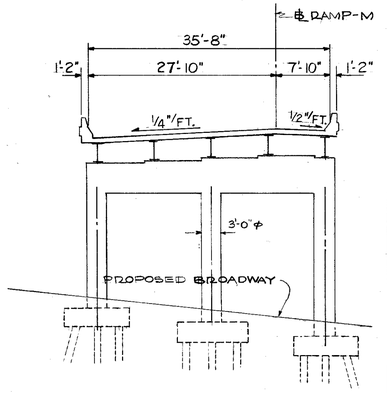
STA. 50+73.61 TO STA. 52+54.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	RLW		JRS	KSJ	7-13-84	

FED. RD.	STATE	PROJECT	
5	OHIO		

295
362

COL-30-35.29



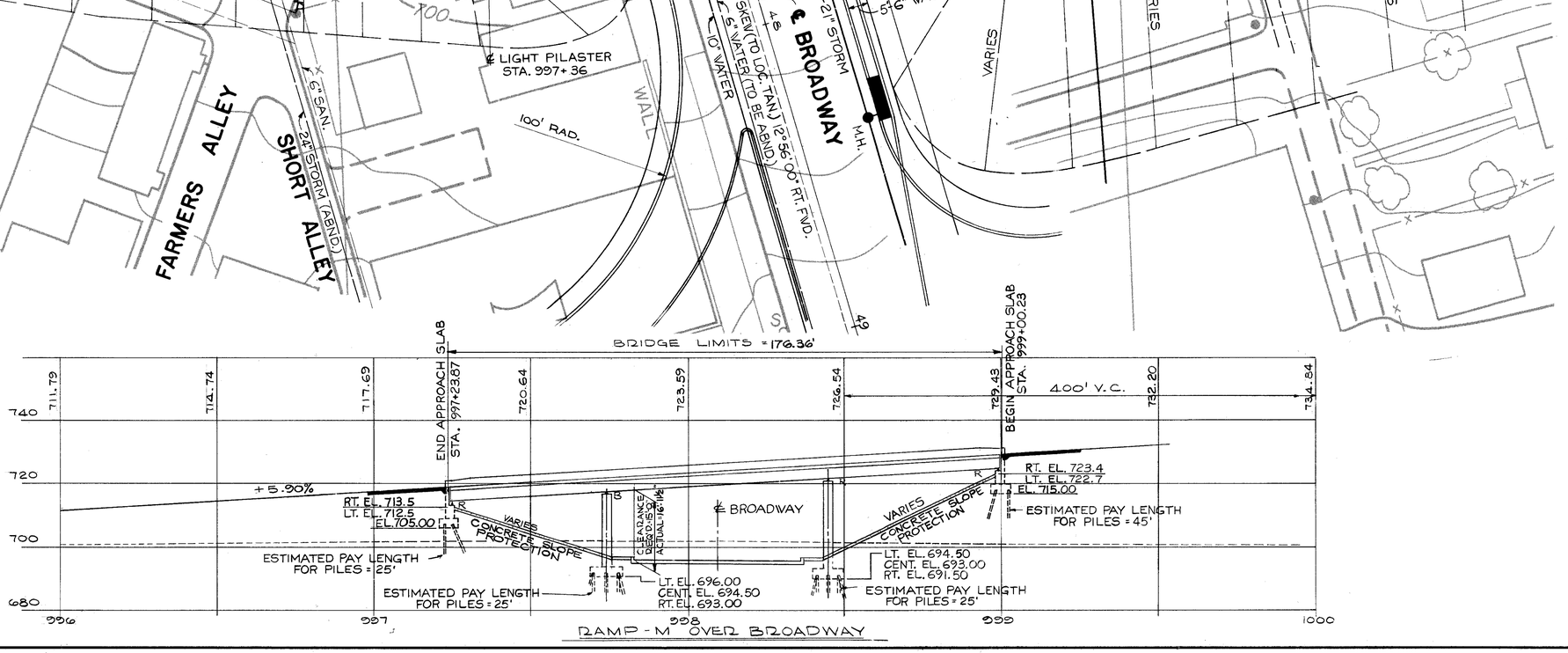
TYPICAL SECTION THRU RAMP "M" STRUCTURE

RAMP-M CURVE Nº 2 DATA

- Δ = 21°-30'-30"
- Dc = 2°-00'-00"
- R = 2,864.79'
- T = 544.11'
- L = 1,075.42'
- C.H. = 1,069.21'
- E = 51.21'
- P.I. STA. 999+68.70

PROPOSED STRUCTURE

TYPE:	CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK SLAB AND SUBSTRUCTURE.
SPANS:	49'-0", 68'-9", 54'-0" C/C BEARINGS (ALONG CENTERLINE).
ROADWAY:	35'-8" F/F PARAPETS
LIVE LOAD:	HS20-44 CASE II, AND ALTERNATE MILITARY LOADING
SKEW ANGLE:	12°-53'-04" R.F. (TO REF. LINE)
ALIGNMENT:	2° CURVE, LT.
SUPERELEVATION:	1/4" PER FOOT
WEARING SURFACE:	LATEX MODIFIED CONCRETE
APPROACH SLABS:	25' (AS-1-81)
SLOPE PROTECTION:	CONCRETE, 601.06
TRAFFIC DATA:	ADT (2010) 4,740
	ADTT (2010) 130



RAMP-M OVER BROADWAY

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

1/11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

SITE PLAN

BRIDGE Nº COL-30-3593

RAMP M OVEP BROADWAY

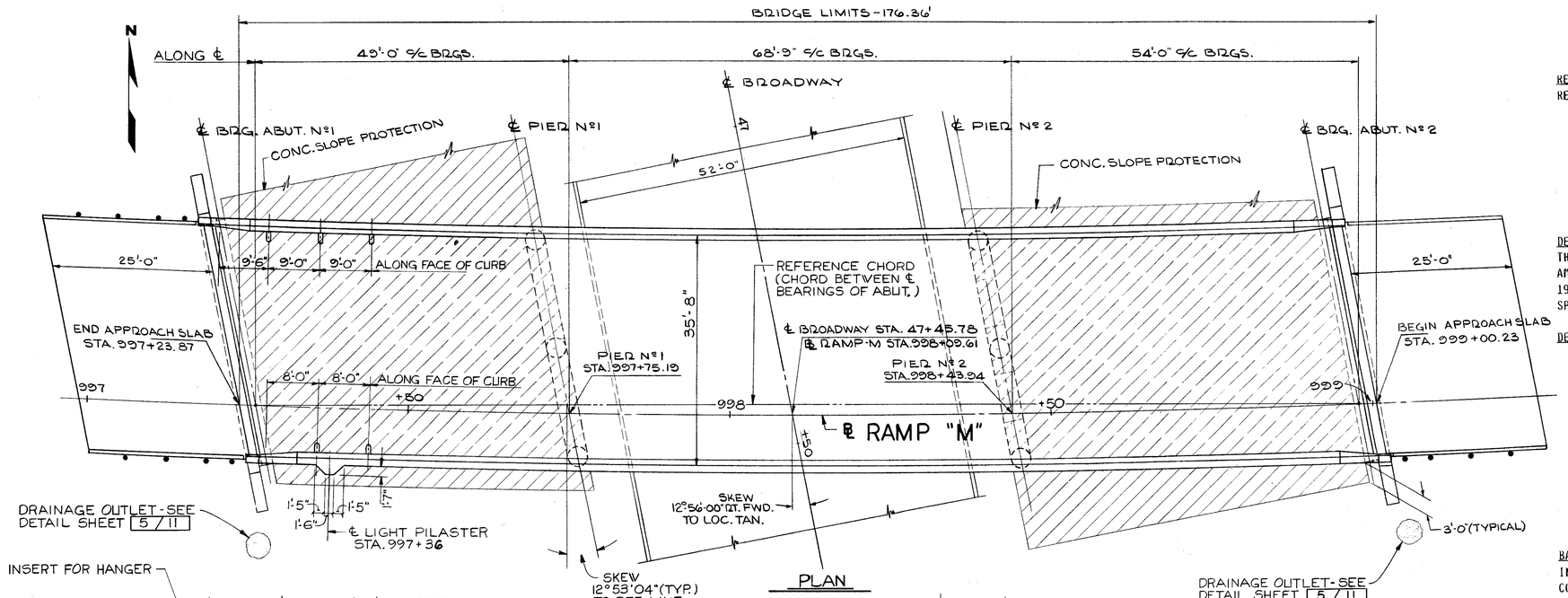
STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
G.C.P.	R.L.W.		D.A.H.	WKO	7-13-16	

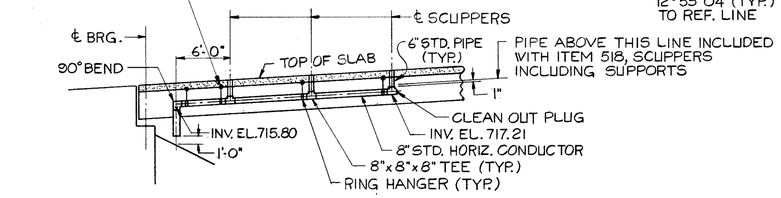
FHWA REGION	STATE	PROJECT	
5	OHIO		

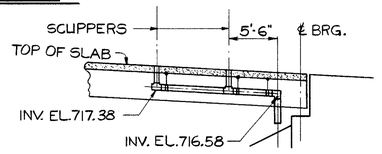
296
362

COL-30-35.29



PLAN

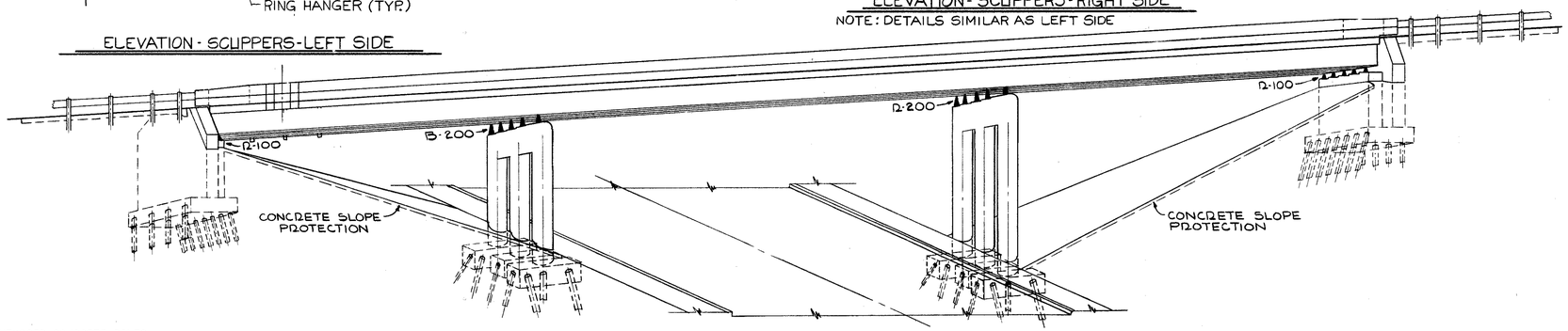




ELEVATION - SCUPPERS - LEFT SIDE

ELEVATION - SCUPPERS - RIGHT SIDE

NOTE: DETAILS SIMILAR AS LEFT SIDE



ELEVATION

CIP REINFORCED CONCRETE PILES

THE DESIGN LOAD FOR THE ABUTMENT PILES IS 50 TONS PER PILE AND THE DESIGN LOAD FOR THE PIER PILES IS 44 TONS PER PILE.

THE PILE HAMMER USED TO INSTALL THE CAST-IN-PLACE REINFORCED CONCRETE PILES SHALL HAVE A STATE'S ENERGY RATING OF NOT LESS THAN 17,000 FOOT-POUNDS. THIS REQUIREMENT DOES NOT RELIEVE THE CONTRACTOR FROM 108.05 WHICH STATES THAT THE CONTRACTOR IS TO PROVIDE SUFFICIENT EQUIPMENT FOR PROSECUTING THE REQUIRED WORK. REFER TO ODOT'S MANUAL OF PROCEDURES FOR STRUCTURES TO OBTAIN THE STATE'S ENERGY RATING.

12 INCH PRECAST PRESTRESSED CONCRETE PILES MAY BE SUBSTITUTED FOR THE 12 INCH CAST-IN-PLACE REINFORCED CONCRETE PILES SHOWN ON THESE PLANS. DRAWINGS SHOWING DETAILS OF AND SPECIFICATION FOR PRESTRESSED CONCRETE PILES ARE AVAILABLE FROM THE DIRECTOR (BUREAU OF BRIDGES). IF THE PRESTRESSED PILE ALTERNATE IS CHOSEN, THE METHOD OF MEASUREMENT AND BASIS OF PAYMENT SHALL BE THE SAME AS FOR CAST-IN-PLACE REINFORCED CONCRETE PILES PER 507.

ITEM SPECIAL, SEALING OF CONCRETE SURFACES

A CONCRET SEALER, EITHER SILANE OR AN EPOXY SEALER, SHALL BE APPLIED TO THE CONCRETE SURFACES SHOWN ON THE PLANS. SEE THE PROPOSAL FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION RATES, MATERIAL REQUIREMENTS AND APPLICATION PROCEDURES.

MAINTENANCE OF TRAFFIC

TWO LANES OF TRAFFIC WITH A MINIMUM HORIZONTAL WIDTH OF 26'0" AND A MINIMUM VERTICAL CLEARANCE OF 13'-6" SHALL BE MAINTAINED ON BROADWAY AT ALL TIMES.

REFERENCE

REFERENCE SHALL BE MADE TO THE FOLLOWING:

STANDARD DRAWING NO. AS-1-81 DATED 11-27-81
STANDARD DRAWING NO. BR-1 DATED 05-29-79
STANDARD DRAWING NO. RB-1-55 REVISED 02-02-59
STANDARD DRAWING NO. SD-1-69 DATED 06-12-69

~~SUPPLEMENTAL SPECIFICATION 893 DATED 5-21-86~~
~~SUPPLEMENTAL SPECIFICATION 893 DATED 08-24-87~~

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977 INCLUDING THE 1978, 1979, 1980, 1981 AND 1982 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA

DESIGN LOADING:	HS20-44 CASE II AND THE ALTERNATE MILITARY LOADING
CONCRETE CLASS C:	UNIT STRESS - 1333 PSI FOR SUBSTRUCTURE
CONCRETE CLASS S:	UNIT STRESS - 1500 PSI FOR SUPERSTRUCTURE
STRUCTURAL STEEL:	ASTM A36 - UNIT STRESS 20,000 PSI ASTM A325 TYPE 3 H.S. BOLTS
REINFORCING STEEL:	ASTM A615, A616, OR A617 - GRADE 60, UNIT STRESS 24,000 PSI SPIRAL REINFORCEMENT MAY BE PLAIN BARS, ASTM A82 OR A615
DECK PROTECTION METHOD:	1) EPOXY-COATED REINFORCING STEEL, TOP MAT ONLY. ~~2) LATEX MODIFIED CONCRETE OVERLAY~~
NOTE:	MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES TO BE 1" THICK.

BACKWALL CONCRETE

IN ADDITION TO THE PROVISIONS OF 511.08, BACKWALL CONCRETE ABOVE THE OPTIONAL CONSTRUCTION JOINT AT THE APPROACH SLAB SEAT SHALL NOT BE PLACED UNTIL AFTER THE DECK CONCRETE IN THE SPAN ADJACENT TO THE ABUTMENT HAS BEEN PLACED.

FINISHING MACHINE SUPPORTS

WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE NOT CLOSER THAN 1" FROM EDGE OF FLANGE, BE NOT MORE THAN 2" LONG, AND BE NOT SMALLER THAN THE MINIMUM SIZE REQUIRED BY AASHTO.

SCUPPERS

SCUPPERS SHALL BE IN ACCORDANCE WITH STD. DRWG. NO. SD-1-69.

HORIZONTAL PIPE CONDUCTORS AND PIPE DOWNSPOUTS INCLUDING SPECIALS SHALL BE STEEL PIPE, 707.08

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

UTILITY LINES

ALL EXPENSE INVOVLED IN RELOCATING THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE OWNERS. THE CONTRACTOR AND OWNERS ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

EMBANKMENT CONSTRUCTION

THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE LEVEL OF THE SUBGRADE FOR A MINIMUM DISTANCE OF 200 FEET BACK OF THE ABUTMENTS. EXCAVATION MAY THEN BE MADE FOR THE ABUTMENTS AND PIERS AND PILES DRIVEN.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES
2 / 11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

GENERAL PLAN & ELEVATION

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

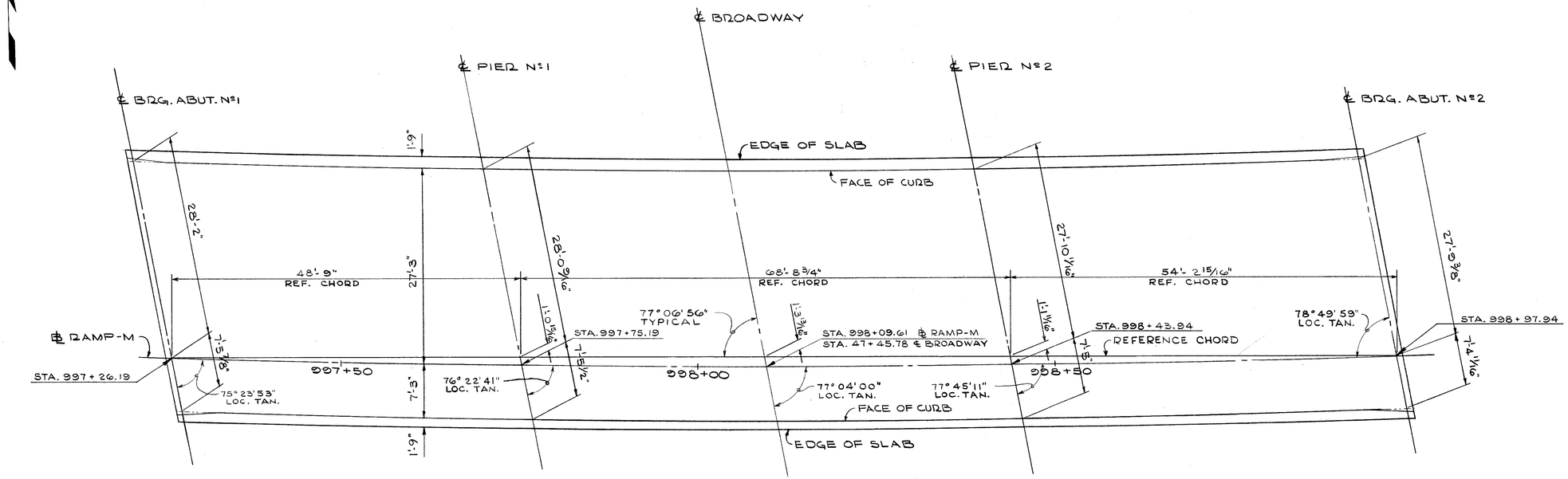
STA. 997+23.87 TO STA. 999+00.23

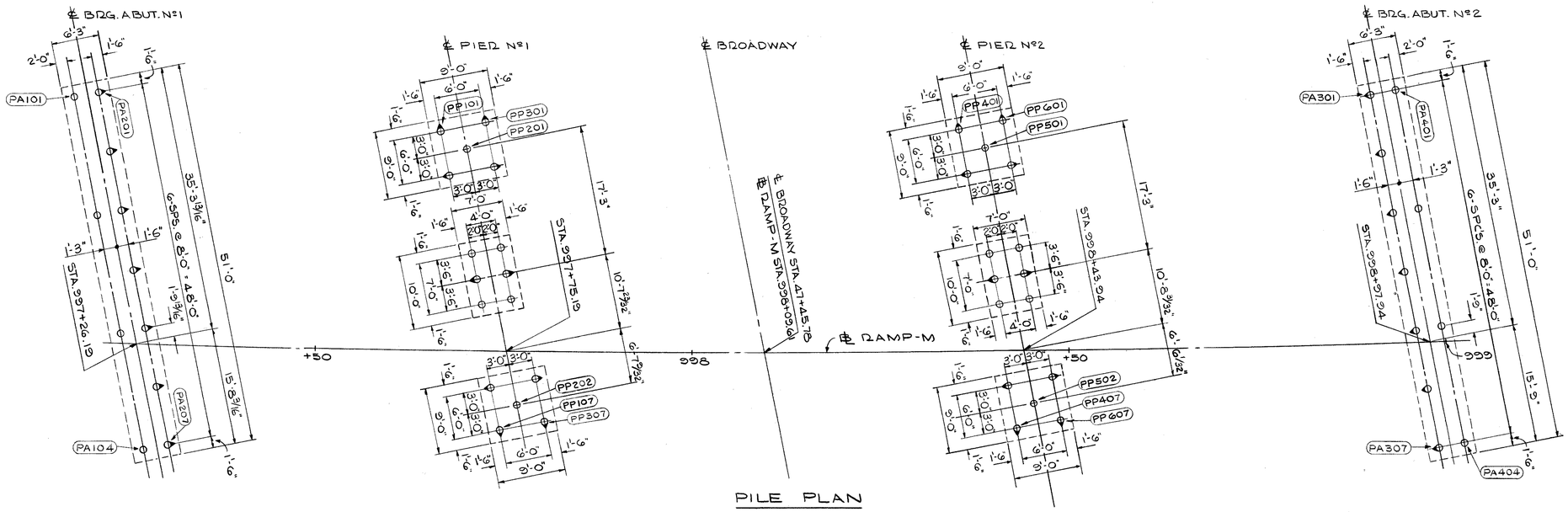
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.T.L.	R.L.W.		RAH	WKD	7-13-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

297
362

COL-30-35.29





ALL PILES ARE 12"ϕ CAST-IN-PLACE REINFORCED CONCRETE PILES
◀○ - INDICATES DIRECTION OF 1:4 BATTERED PILES

(PA101) (PP101)
THE NUMBERS AS INDICATED ABOVE SHALL BE THE PILE MARK. THE FIRST LETTER REFERS TO PILE. THE SECOND LETTER REFERS TO A-ABUTMENT, P-PIER. THE FIRST DIGIT INDICATES THE PILE ROW. THE LAST TWO DIGITS INDICATE THE POSITION IN THAT ROW. FOR EXAMPLE: (PA103) INDICATES THE THIRD PILE IN THE FIRST ROW OF THE ABUTMENT.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

3 / 11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

GEOMETRIC PLAN & PILE PLAN

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

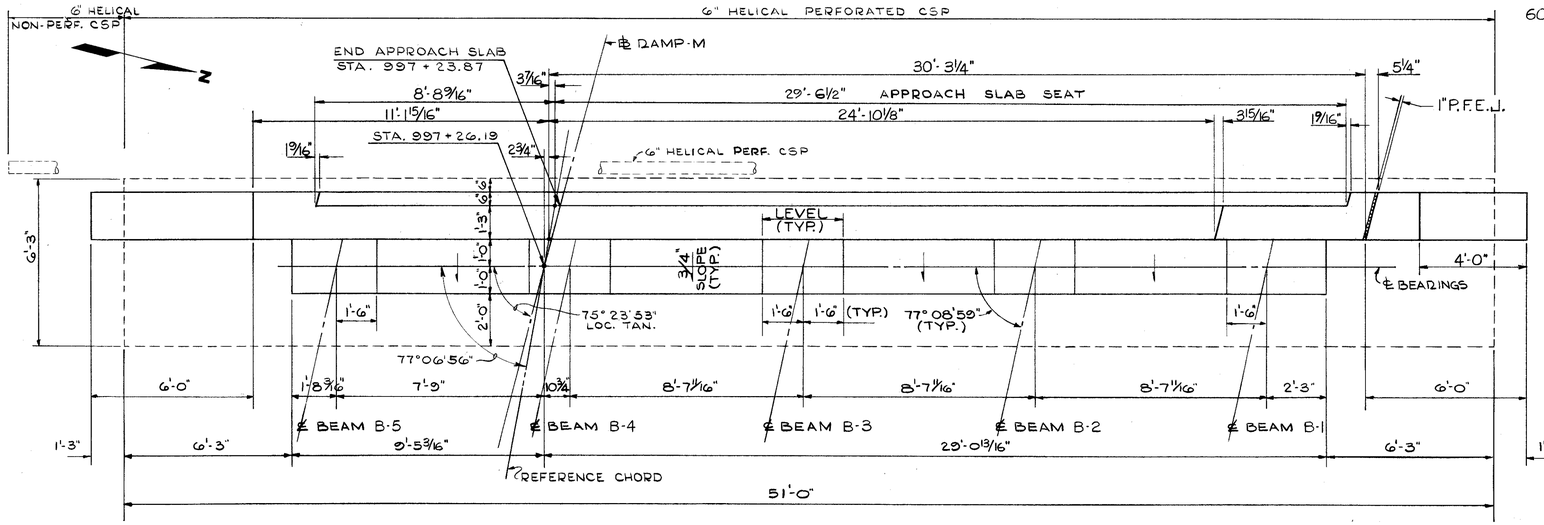
STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-13-76	

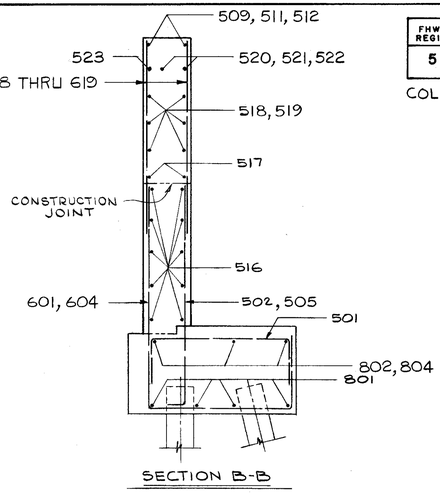
FHWA REGION	STATE	PROJECT	
5	OHIO		

298
362

COL - 30 - 35.29

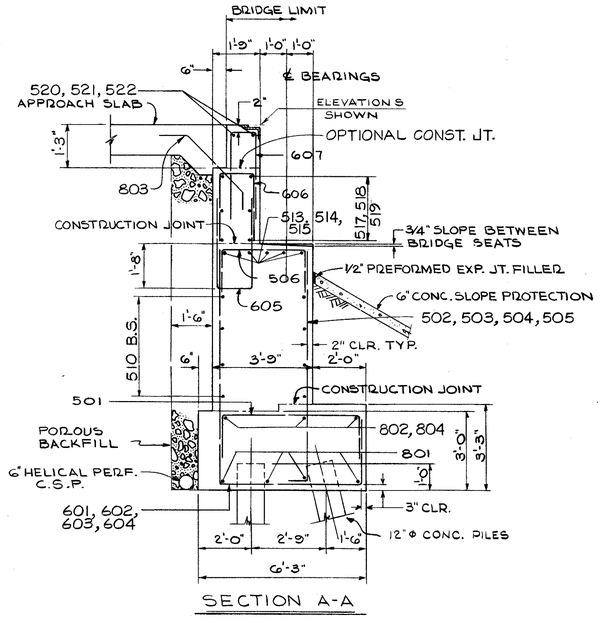


PLAN

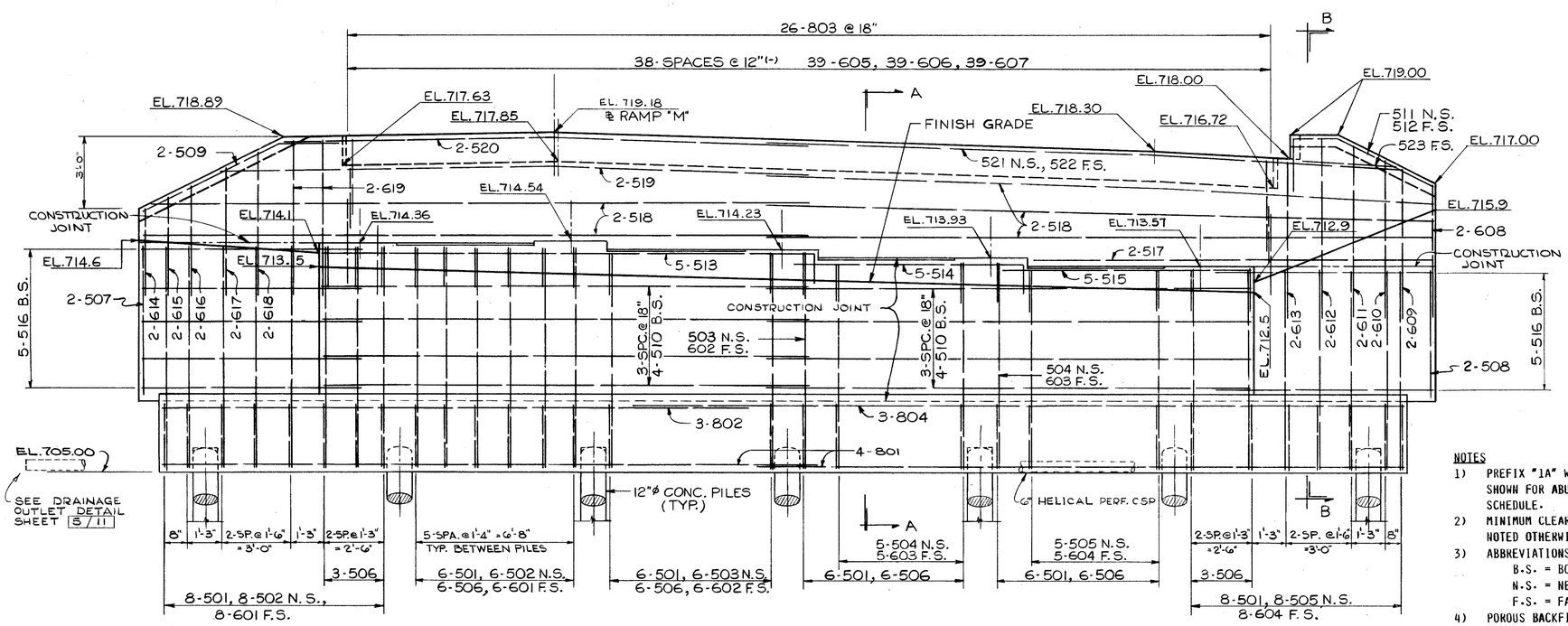


SECTION B-B

NOTE:
FOR PILE SPACINGS AND LOCATION SEE SHEET 3/11



SECTION A-A



ELEVATION

NOTES

1) PREFIX "1A" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR ABUTMENT NO. 1. SEE REINFORCING SCHEDULE.
2) MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3) ABBREVIATIONS:
   B.S. = BOTH SIDES
   N.S. = NEAR SIDE
   F.S. = FAR SIDE
4) POROUS BACKFILL SHALL EXTEND UPWARD TO THE PLANE OF THE SUBGRADE, AND LATERALLY TO THE ENDS OF THE FOOTING.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

4 / 11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

ABUTMENT Nº 1 DETAILS

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

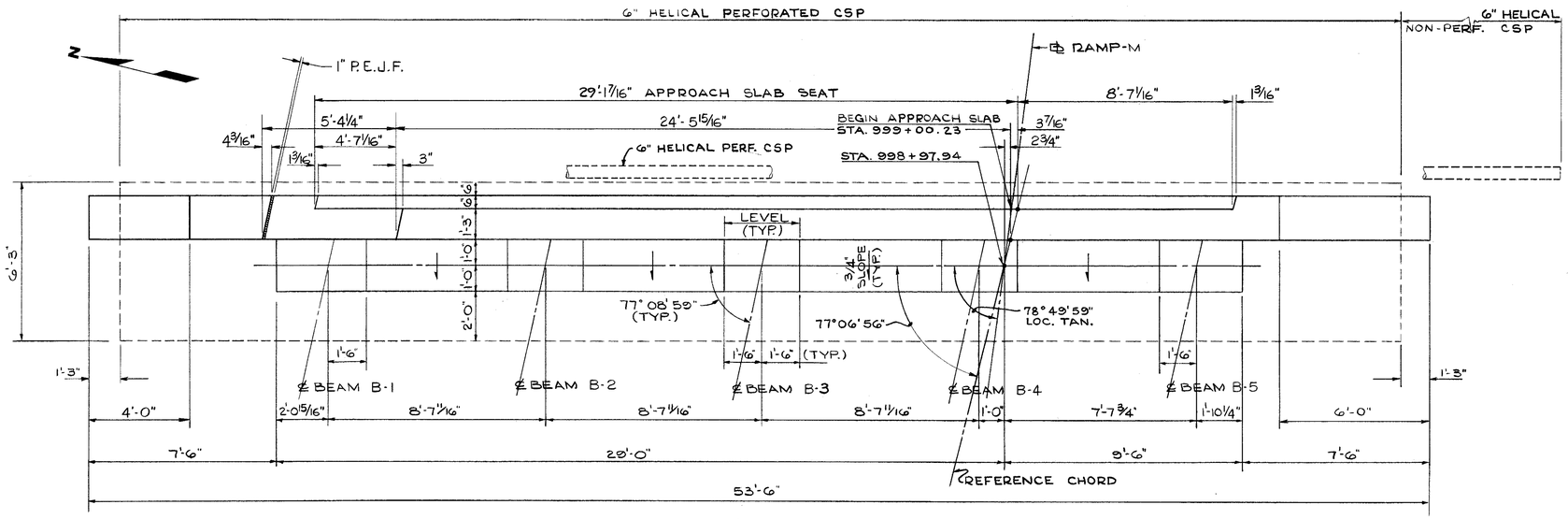
STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-13-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

299
362

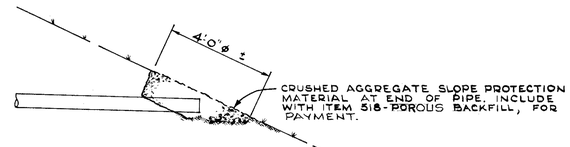
COL-30-35.29



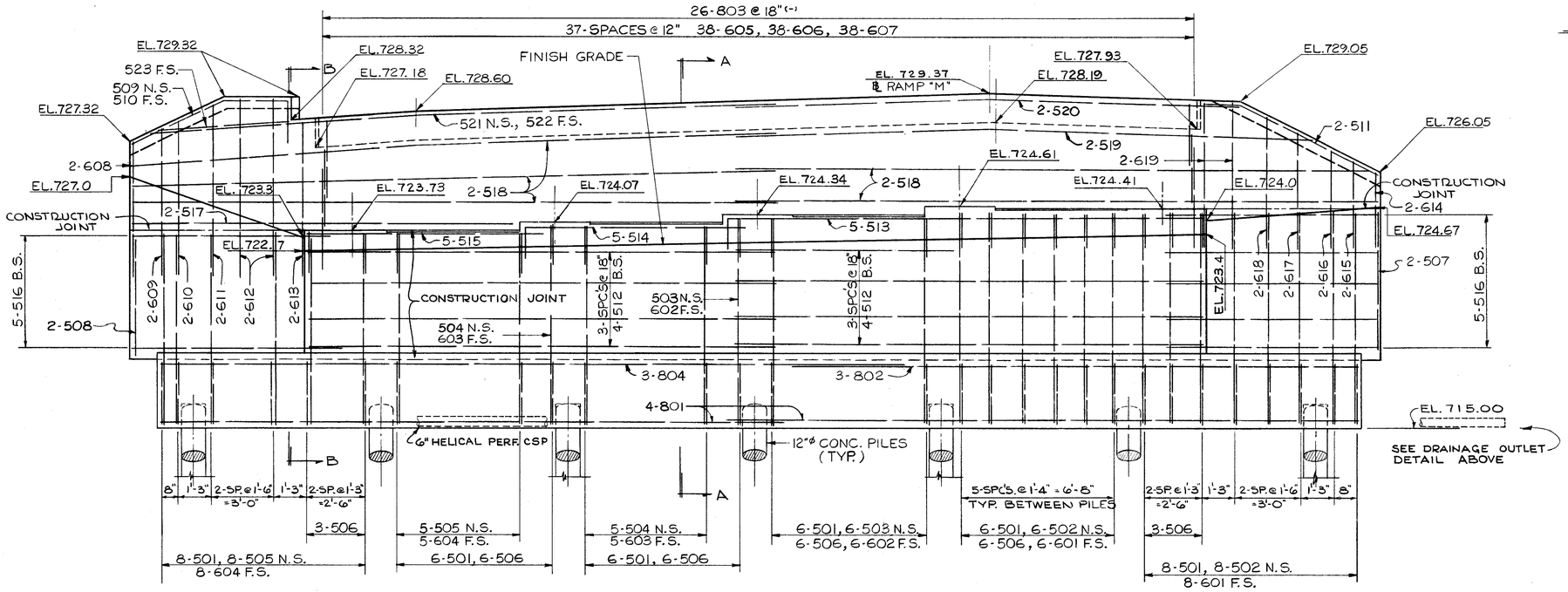
PLAN

NOTE:
FOR PILE SPACINGS & LOCATIONS SEE SHEET 3/11

FOR SECTION A-A AND B-B SEE SHEET 4/11



DETAIL OF DRAINAGE OUTLET



ELEVATION

NOTES

1) PREFIX "2A" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR ABUTMENT NO. 2. SEE REINFORCING SCHEDULE.
2) MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3) ABBREVIATIONS:
   B.S. = BOTH SIDES
   N.S. = NEAR SIDE
   F.S. = FAR SIDE
4) POROUS BACKFILL SHALL EXTEND UPWARD TO THE PLANE OF THE SUBGRADE, AND LATERALLY TO THE ENDS OF THE FOOTING.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

5/11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

ABUTMENT Nº 2 DETAILS

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-13-76	

FHWA REGION	STATE	PROJECT		300 / 362
5	OHIO			

COL-30-35.29

N

STA. 997+75.13 PIER-1
STA. 998+43.94 PIER-2

℄ RAMP-M

6'-7 9/32" (6'-6 1/32") PIER-1 PIER-2

℄ COLUMN

76°22'41" LT. PIER-1
77°45'11" LT. PIER-2
LOC. TAN.

5'-0"
10'-0"

1'-6" R.

℄ BEAM B-1 ℄ BEAM B-2 ℄ BEAM B-3 ℄ BEAM B-4 ℄ BEAM B-5

77°06'56"

2'-0" (2'-1¼")

6'-7 23/32" (6'-6 15/32") PIER-1 PIER-2

1'-0 15/16" (1'-1 11/16")

REFERENCE CHORD

PLAN

1'-5 9/16" 4-SPACES @ 8'-7 23/32" = 34'-6 7/8" 1'-5 9/16"

7'-6" 7'-6" 7'-6" 7'-6" 7'-6"

EL. 715.90 (EL. 719.99) 4 - 1001 EL. 716.28 (EL. 720.35) 4 - 1002 EL. 716.57 (EL. 720.64) EL. 716.87 (EL. 720.92) EL. 716.75 (EL. 720.80) 4 - 1001

3'-9" TYP.

801 2-1101 2-1502 801

2-1101 CONST. JOINT (TYP.) 2-1101 1'-8" (TYP.)

4-1102

A A B B

6'-9" COMPRESSION BOT. 6'-4" COMPRESSION TOP 4'-2" COMP. BOT. 1'-10½" 4'-2" COMP. BOT. 6'-4" COMPRESSION TOP 6'-9" COMPRESSION BOT. 1'-10½"

9 - SPC'S. @ 1'-6" = 13'-6" 10-501
TYPICAL BETWEEN COLUMNS

17'-3" 17'-3"

10-901 (10-905)

10-902 (10-906)

3'-0" DIA.

10-903 (10-907)

SP401 (SP404)

FINISH GRADE

SP402 (SP405)

CONST. JOINT (TYP.)

SP403 (SP406)

4'-3"

2'-9" TYP. 1'-0"

EL. 696.00 (EL. 694.50)

12"ø C.I.P. CONC. PILES (TYP.)

10-803

EL. 694.50 (EL. 693.00)

10-802

ELEVATION

EL. 693.00 (EL. 691.50)

3" CLR.

10-904 TYPICAL

10-701 BOTH EXTERIOR FTG'S.

10-701 BOTH EXTERIOR FOOTINGS

3'-0"

1001, 1002

1101

2" CLR. TYP.

501

502

1101

1102

VARIES

SECTION A-A

NOTE:
HOOKED CORNER OF THE STIRRUP SHALL BE PLACED IN THE COMPRESSION AREA OF THE PIER CAP.

NOTES

1) PREFIXES "1P" AND "2P" WILL BE ADDED TO ALL REBAR MARKS EXCEPT THOSE INDICATING SPIRALS, FOR PIER NO. 1 AND PIER NO. 2 RESPECTIVELY. SPIRALS WILL BE PREFIXED "1" AND "2" RESPECTIVELY. SEE REINFORCING SCHEDULE.
2) MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3) BEARING SEAT REINFORCING: REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT OF PIER NO. 1 SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF BEARING ANCHORS.
4) BEARING ANCHORS: AT THE OPTION OF THE CONTRACTOR, BEARING ANCHORS (OR FORMED HOLES) AT PIER NO: 1 , LOCATED AND SUPPORTED BY TEMPLATES, MAY BE CAST IN PLACE.

℄ BEAM

10" 10"

77°08'59"

6" 6"

℄ BRG.

3¾" 4¼" 5¾" 4¼" 3¾"

1101

1001, 1002

ANCHOR BOLT LAYOUT
PIER Nº 1

1'-6" 3'-0" 3'-0" 1'-6" 9'-0"

1'-6" 2'-0" 2'-0" 1'-6" 7'-0"

1'-6" 3'-0" 3'-0" 1'-6" 9'-0"

℄ COLUMN

36°00' (TYP.)

7¼" 6¼" 6¼" 7¼"

℄ BRG.

1102

SECTION B-B

-INDICATES 1:4 BATTERED PILE

ELEVATIONS & BAR MARKS SHOWN IN PARENTHESIS INDICATE PIER Nº 2

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

6 / 11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

PIER Nº 1 & 2 DETAILS

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.T.L.	R.L.W.		RAH	WRD	7-13-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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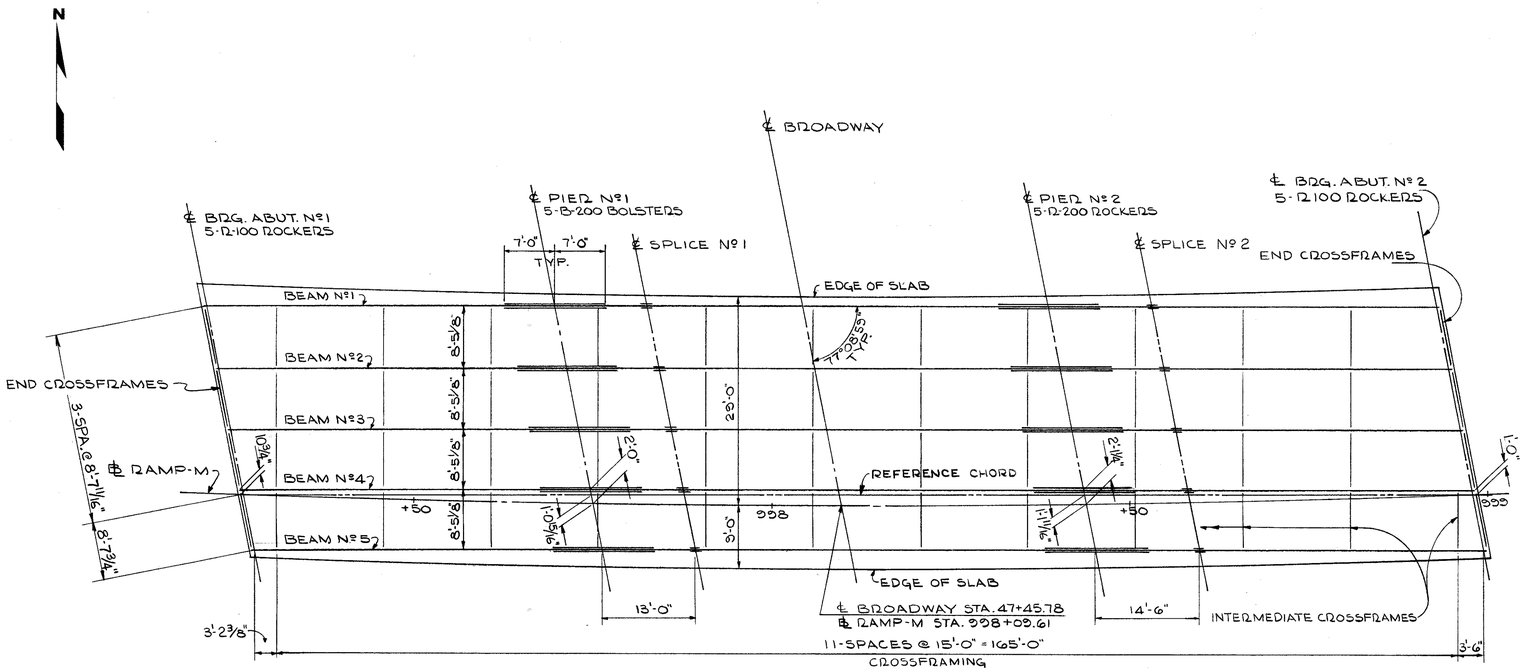
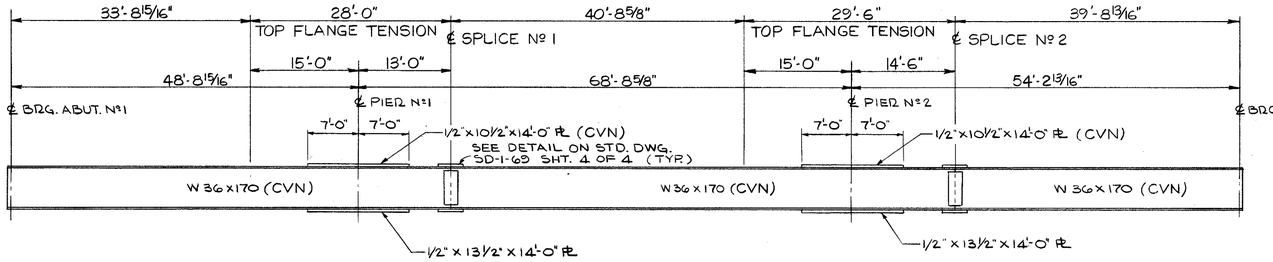
362

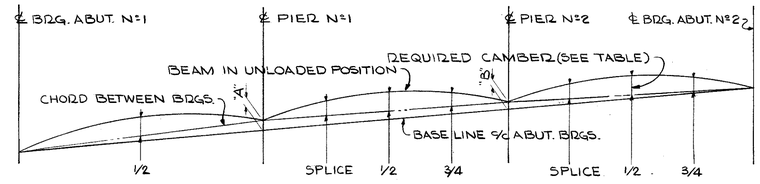
COL-30-35.29



FRAMING PLAN



BEAM ELEVATION

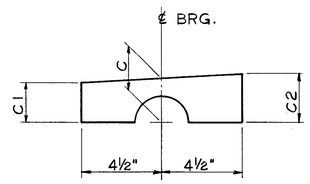


DEFLECTION & CAMBER (BEAM-B1)										HEIGHT OF CHORD	
SPAN	END SPAN (48'-8 15/16")			CENTER SPAN (68'-8 5/8")			END SPAN (54'-2 13/16")			"A"	"B"
LOCATION OF POINTS		1/2		SPLICE	1/2	3/4	SPLICE	1/2	3/4		
DEFLECTION DUE TO WEIGHT OF STEEL		1/16		0	1/16	0	0	1/16	0		
DEFLECTION DUE TO REMAINING DEAD LOAD		1/8		3/16	7/16	1/4	1/8	1/4	1/4		
ADJUSTMENT REQUIRED FOR VERTICAL CURVE		0		0	0	0	1/8	3/16	3/16		
ADJUSTMENT REQUIRED FOR HORIZONTAL CURVE		-1/16		-1/16	-1/8	-1/16	-1/16	-1/16	-1/16		
REQUIRED SHOP CAMBER		1/8		1/8	3/8	3/16	3/16	7/16	3/8	3/8	3/16

DEFLECTION & CAMBER (BEAMS-B2, B3 & B4)										HEIGHT OF CHORD	
SPAN	END SPAN (48'-8 15/16")			CENTER SPAN (68'-8 5/8")			END SPAN (54'-2 13/16")			"A"	"B"
LOCATION OF POINTS		1/2		SPLICE	1/2	3/4	SPLICE	1/2	3/4		
DEFLECTION DUE TO WEIGHT OF STEEL		0		0	1/16	1/16	0	1/16	0		
DEFLECTION DUE TO REMAINING DEAD LOAD		1/8		1/8	5/16	3/16	1/8	3/16	3/16		
ADJUSTMENT REQUIRED FOR VERTICAL CURVE		0		0	0	0	1/8	3/16	1/8		
ADJUSTMENT REQUIRED FOR HORIZONTAL CURVE		-1/16		0	-1/16	-1/16	0	0	0		
REQUIRED SHOP CAMBER		1/16		1/8	5/16	3/16	1/4	7/16	5/16	1/8	1/8

DEFLECTION & CAMBER (BEAM-B5)										HEIGHT OF CHORD	
SPAN	END SPAN (48'-8 15/16")			CENTER SPAN (68'-8 5/8")			END SPAN (54'-2 13/16")			"A"	"B"
LOCATION OF POINTS		1/2		SPLICE	1/2	3/4	SPLICE	1/2	3/4		
DEFLECTION DUE TO WEIGHT OF STEEL		0		0	1/16	1/16	0	1/16	1/16		
DEFLECTION DUE TO REMAINING DEAD LOAD		1/8		3/16	3/8	1/4	1/8	1/4	1/4		
ADJUSTMENT REQUIRED FOR VERTICAL CURVE		0		0	0	0	3/16	3/16	1/8		
ADJUSTMENT REQUIRED FOR HORIZONTAL CURVE		1/16		1/16	1/8	1/16	1/16	1/16	1/16		
REQUIRED SHOP CAMBER		3/16		1/4	9/16	3/8	3/8	9/16	1/2	3/4	1 1/16

NOTE :
FOR MOMENT PLATE AND BOLTED SPLICE DETAILS SEE STD. DWG. SD-1-69
ALL SPLICE PLATE MATERIAL SHALL BE CVN. SEE NOTE 2, THIS SHEET.



UPPER PLATE DETAIL

BEARING	C	C1	C2
R-100	2 1/2"	2 1/4"	2 3/4"
R-200 B-200	3 1/2"	3 1/4"	3 3/4"

NOTES

1) ALL STRUCTURAL STEEL SHALL BE ASTM A-36 UNLESS NOTED OTHERWISE.
2) WHERE A SHAPE OR PLATE IS DESIGNATED (CVN) THE MATERIAL SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.
3) BEARINGS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING NO. RB-1-55 EXCEPT THAT UPPER PLATE ELEMENT OF BEARINGS SHALL BE BEVELED AS SHOWN ON THIS SHEET. TABULATED PLATE THICKNESS "C" SHALL APPLY AT CENTERLINE OF PLATE.
4) STEEL ERECTION: DURING THE ERECTION OF END CROSS-FRAMES AND END DAMS, CARE SHALL BE TAKEN TO INSURE THAT STRINGERS, BEARING PARTS AND BRIDGE SEATS REMAIN IN BEARING CONTACT.
5) HIGH STRENGTH BOLTS SHALL BE 1" DIAMETER A325, UNLESS NOTED OTHERWISE.
6) FOR END CROSSFRAMES AND END DAM DETAILS, SEE STD. DRWG. NO. SD-1-69.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES
7/11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

FRAMING PLAN

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.T.L.	R.L.W.		RAH	WKD	7-13-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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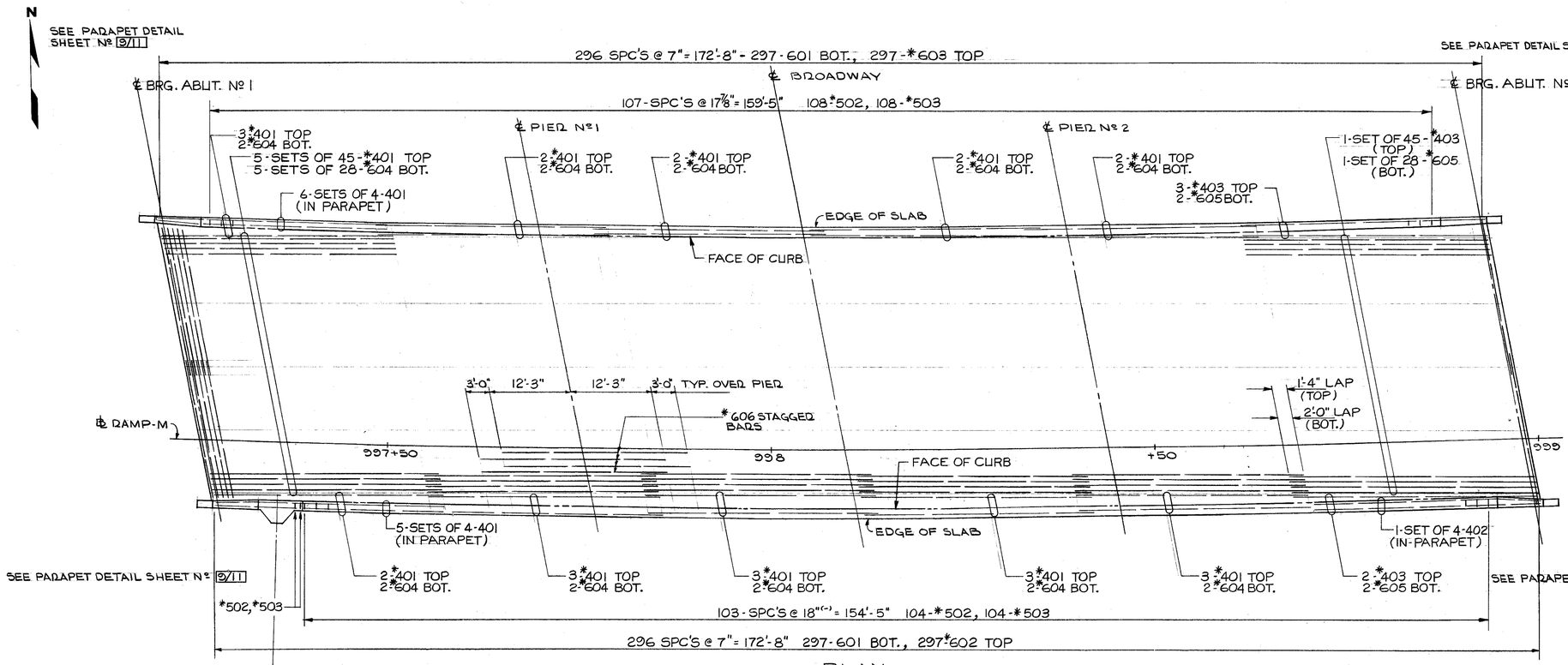
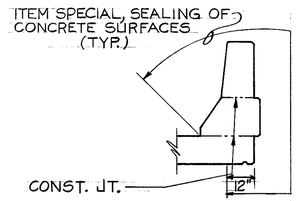
COL-30-35.29



FOR LIGHT PILASTER DETAIL SEE STANDARD CONSTRUCTION DRAWING HL-4 STA. 997+36

PLAN

ITEM SPECIAL, SEALING OF CONCRETE SURFACES (TYP.)

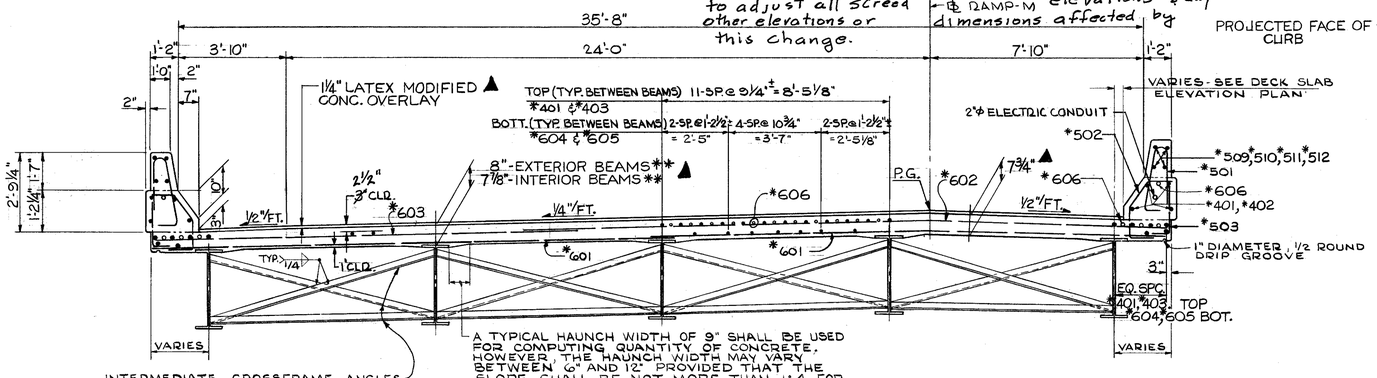


SEALING OF CONCRETE SURFACE

NOTES

1) PREFIX "S" WILL BE ADDED TO ALL REBARS SHOWN FOR DECK SLAB. SEE REINFORCING SCHEDULE.
2) REINFORCING STEEL SHOWN THUS (*) TO BE EPOXY COATED.

▲ These plans were developed using an LMC overlay on top of a new Class S concrete deck. However, the LMC overlay shall not be used as part of this project. The 1¼" shall be replaced w/Class S concrete making a 9" thick monolithic Class S concrete deck. It will be the Contractor's responsibility to adjust all screed elevations & any other elevations or dimensions affected by this change.



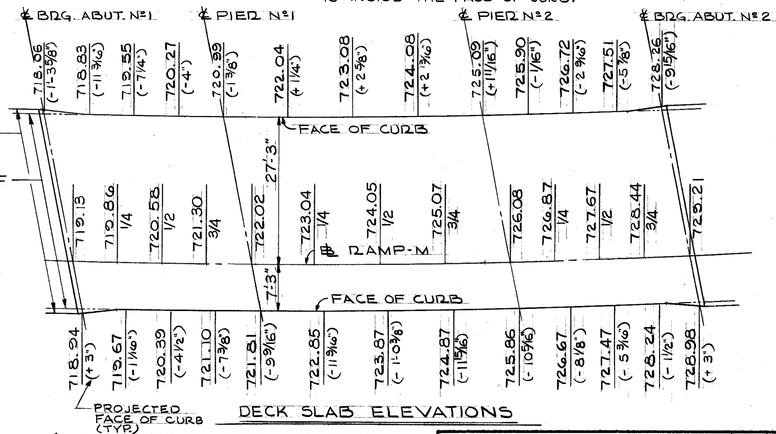
A TYPICAL HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE, HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12" PROVIDED THAT THE SLOPE SHALL BE NOT MORE THAN 1:4 FOR A HAUNCH LESS THAN 9" IN WIDTH.

INTERMEDIATE CROSSFRAME ANGLES 3½x3½x5/16. WELD BOTH SIDES OF VERTICAL LEG AND TOP SIDE OF HORIZONTAL LEG TO BEAM WITH ¼" CONTINUOUS FILLET WELD. (TYP.)

TRANSVERSE SECTION

** THIS IS THE DESIGN DIMENSION. THE QUANTITY OF CLASS "S" DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.

THE DIMENSION SHOWN IN PARENTHESES ARE DISTANCES FROM FACE OF CURB TO EXTERIOR BEAM AT QUARTER POINTS. THE DIMENSION IS SHOWN + IF THE BEAM IS BEYOND THE FACE OF CURB OR SHOWN - IF THE BEAM IS INSIDE THE FACE OF CURB.



DECK SLAB ELEVATIONS

▲ THE ELEVATIONS SHOWN ARE TOP OF PORTLAND CEMENT CONCRETE, AND ARE THOSE WHICH ARE REQUIRED BEFORE THE CONCRETE DECK IS PLACED. PROPER ALLOWANCE HAS BEEN MADE FOR THE DEAD LOAD DEFLECTIONS CAUSED BY THE WEIGHT OF THE CONCRETE.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES
8/11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

SLAB REINFORCING PLAN

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.T.L.	R.L.W.		RAH	WKD	7-13-76	

REV. 4-12-90

FHWA REGION	STATE	PROJECT	
5	OHIO		

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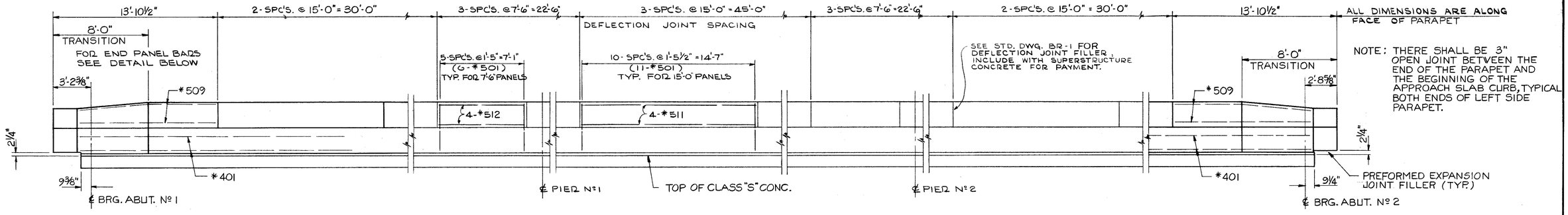
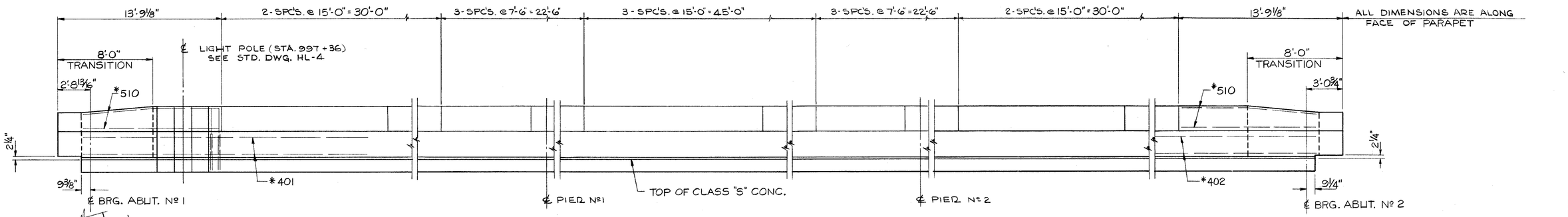
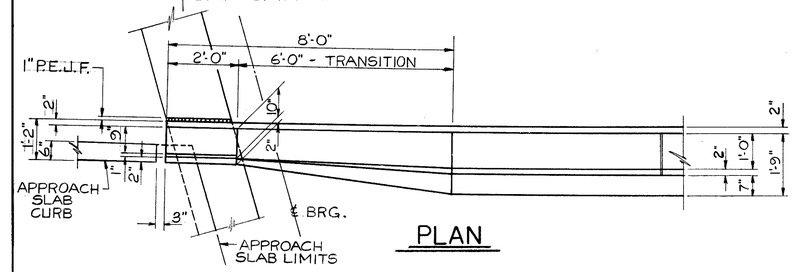
COL-30-35.29

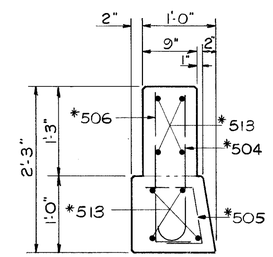


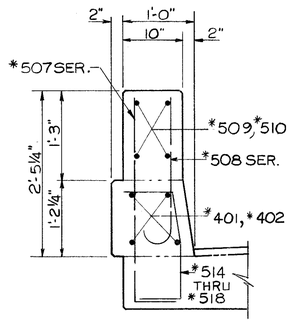
LEFT SIDE PARAPET ELEVATION

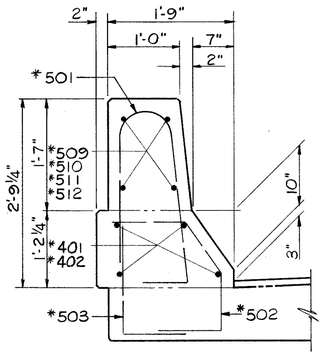


RIGHT SIDE PARAPET ELEVATION









PARAPET RAILING

1) PREFIX "S" WILL BE ADDED TO ALL REBARS SHOWN FOR PARAPET. SEE REINFORCING SCHEDULE.
2) ALL REINFORCING STEEL SHOWN THUS (*) TO BE EPOXY-COATED.
3) FOR ADDITIONAL DETAILS AND NOTES, SEE STD. DRAWING NO. BR-1.
4) QUANTITIES OF CONCRETE AND REINFORCING STEEL FOR PARAPET ARE INCLUDED WITH THEIR APPROPRIATE ITEM UNDER SUPERSTRUCTURE FOR PAYMENT.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

9/11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

PARAPET ELEVATION DETAILS

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-13-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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COL-30-35.29

ABUTMENT NO 1

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1A501	40	6'10''	103	5' 4''	0'10''			285
1A502	14	9' 7''	102	8'10''	0'10''			140
1A503	7	9' 6''	102	8' 9''	0'10''			69
1A504	6	9' 2''	102	8' 5''	0'10''			57
1A505	13	8'10''	102	8' 1''	0'10''			120
1A506	30	6' 7''	103	3' 5''	1' 8''			206
1A507	2	5' 6''	ST					11
1A508	2	5' 0''	ST					10
1A509	2	9' 0''	105	2' 6''	6' 6''	3' 0''		19
1A510	16	19'11''	ST					332
1A511	1	7'10''	125	1'10''	4' 3''	1'10''		8
1A512	1	7' 5''	125	1' 5''	4' 3''	1'10''		8
1A513	5	21' 2''	104	20' 1''	1' 2''			110
1A514	5	10' 7''	102	9' 6''	1' 2''			55
1A515	5	10' 3''	ST					53
1A516	20	9' 2''	ST					191
1A517	2	16' 6''	ST					34
1A518	10	27' 5''	ST					286
1A519	2	24' 1''	ST					50
1A520	2	21' 5''	ST					45
1A521	1	26' 7''	ST					28
1A522	1	23'10''	ST					25
1A523	1	3' 8''	ST					4
1A601	14	16' 7''	104	5' 4''	8'11''	2' 7''		349
1A602	7	16' 6''	104	5' 4''	8'10''	2' 7''		173
1A603	6	16' 2''	104	5' 4''	8' 6''	2' 7''		146
1A604	13	15'10''	104	5' 4''	8' 2''	2' 7''		309
1A605	39	9' 8''	103	1' 5''	4' 3''			566
1A606	39	5'10''	103	1' 5''	2' 4''			342
1A607	39	7' 2''	103	0'11''	3' 3''			420
1A608	2	5' 6''	ST					17
1A609	2	6' 1''	ST					18
1A610	2	6' 5''	ST					19
1A611	2	7' 1''	ST					21
1A612	2	7' 5''	ST					22
1A613	2	6' 5''	ST					19
1A614	2	3' 6''	ST					11
1A615	2	4' 3''	ST					13
1A616	2	4' 7''	ST					14
1A617	2	5' 2''	ST					16
1A618	2	5'11''	ST					18
1A619	4	6' 6''	ST					39
1A801	8	27' 0''	ST					577
1A802	3	23' 8''	ST					190
1A803	26	6' 0''	124	3' 2''	1' 0''	1' 5''		417
1A804	3	31' 8''	ST					254
						TOTAL		6,116

ABUTMENT NO 2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2A501	40	6'10''	103	5' 4''	0'10''			285
2A502	14	9' 9''	102	9' 0''	0'10''			142
2A503	7	9' 7''	102	8'10''	0'10''			70
2A504	6	9' 4''	102	8' 7''	0'10''			58
2A505	13	9' 0''	102	8' 3''	0'10''			122
2A506	30	6' 7''	103	3' 5''	1' 8''			206
2A507	2	5'10''	ST					12
2A508	2	5' 2''	ST					11
2A509	1	8' 8''	125	2' 8''	4' 3''	1'10''		9
2A510	1	8'12''	125	3' 0''	4' 3''	1'10''		9
2A511	2	8' 1''	105	1' 7''	6' 6''	3' 0''		17
2A512	16	19'11''	ST					332
2A513	5	21' 4''	102	20' 3''	1' 2''			111
2A514	5	10' 7''	102	9' 6''	1' 2''			55
2A515	5	10' 1''	ST					53
2A516	20	9' 2''	ST					191
2A517	2	16' 4''	ST					34
2A518	10	27' 5''	ST					286
2A519	2	24' 1''	ST					50
2A520	2	21' 5''	ST					45
2A521	1	26' 9''	ST					28
2A522	1	22' 3''	ST					23
2A523	1	5' 6''	ST					6
2A601	14	16' 8''	104	5' 4''	9' 0''	2' 7''		350
2A602	7	16' 7''	104	5' 4''	8'11''	2' 7''		174
2A603	6	16' 4''	104	5' 4''	8' 8''	2' 7''		147
2A604	13	16' 0''	104	5' 4''	8' 4''	2' 7''		312
2A605	38	10' 2''	103	1' 5''	4' 6''			580
2A606	38	6' 6''	103	1' 5''	2' 8''			371
2A607	38	7' 2''	103	0'11''	3' 3''			409
2A608	2	5' 8''	ST					17
2A609	2	6' 4''	ST					19
2A610	2	6' 8''	ST					20
2A611	2	7' 4''	ST					22
2A612	4	7' 7''	ST					46
2A613	2	6' 7''	ST					20
2A614	2	3' 9''	ST					11
2A615	2	4' 5''	ST					13
2A616	2	4' 9''	ST					14
2A617	2	5' 5''	ST					16
2A618	2	6' 2''	ST					19
2A619	4	6' 9''	ST					41
2A801	8	27' 0''	ST					577
2A802	3	23' 8''	ST					190
2A803	26	6' 0''	124	3' 2''	1' 0''	1' 5''		417
2A804	3	31' 8''	ST					254
						TOTAL		6,194

REINFORCING STEEL

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT, IF PRESENT, AND ALPHABETICAL LETTER/LETTERS INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES: 1 A 501
- NO. 5 SIZE BAR
- LOCATION = ABUT. NO. 1

1P 11 01
- NO. 11 SIZE BAR
- LOCATION = PIER NO. 2

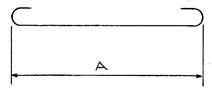
1 SP 401
- NO. 4 SIZE BAR
- LOCATION = PIER NO. 1 & BAR IS A SPIRAL

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

SPIRAL REINFORCING BARS - THE LENGTH SHOWN IN THE STEEL LIST FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE BOTTOM OF THE PIER CAP. 1-1/2 CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT. 4 STEEL ANGLE SPACERS, WEIGHING APPROXIMATELY 0.80 LBS. PER LIN. FT. OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF LBS. OF THESE SPACERS, BASED ON 0.80 LBS. PER LIN. FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS. ALL OTHER DETAILS SHALL BE IN ACCORDANCE WITH CRSI STANDARD PRACTICE.

REINFORCING STEEL SAMPLES

REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.



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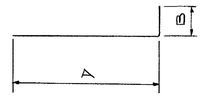

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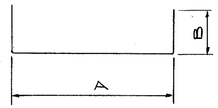

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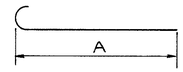

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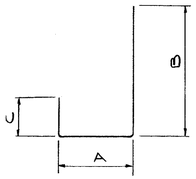

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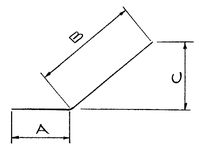

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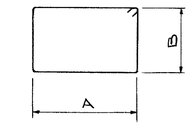

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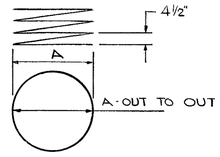

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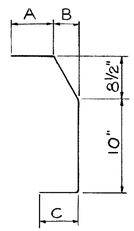

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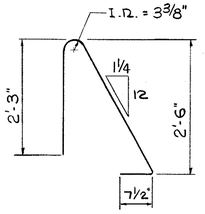

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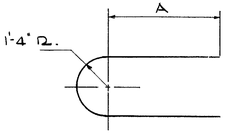

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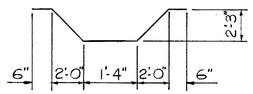

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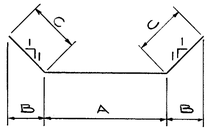

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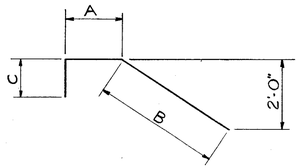

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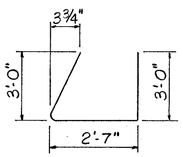

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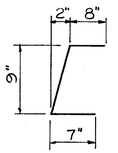

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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

10/11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO · YOUNGSTOWN, OHIO

REINFORCING SCHEDULE

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-13-76	

PIER NO 1

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1SP401	1	13' 5''	120	2' 8''	0' 4 1/2''			257
1SP402	1	14'11''	120	2' 8''	0' 4 1/2''			284
1SP403	1	16' 5''	120	2' 8''	0' 4 1/2''			310
1P501	20	12' 9''	107	2' 8''	3' 5''			266
1P502	2	28'10''	ST					60
1P701	40	10' 2''	100	8' 6''				831
1P801	4	13' 2''	119	1' 4''	4' 6''	4' 2 1/4''		141
1P802	10	8' 4''	100	6' 6''				222
1P803	10	11' 4''	100	9' 6''				303
1P901	10	15'11''	ST					541
1P902	10	17' 5''	ST					592
1P903	10	18'11''	ST					643
1P904	30	8' 0''	102	6' 7''	1' 7''			816
1P1001	8	16' 2''	102	13' 0''	3' 5''			557
1P1002	4	26' 4''	ST					453
1P1101	6	13' 6''	ST					430
1P1102	4	35' 0''	ST					744
						TOTAL		7,450

PIER NO 2

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2SP404	1	19' 0''	120	2' 8''	0' 4 1/2''			357
2SP405	1	20' 6''	120	2' 8''	0' 4 1/2''			384
2SP406	1	22' 0''	120	2' 8''	0' 4 1/2''			410
2P501	20	12' 9''	107	2' 8''	3' 5''			266
2P502	2	28'10''	ST					60
2P701	40	10' 2''	100	8' 6''				831
2P801	4	13' 2''	119	1' 4''	4' 6''	4' 2 1/4''		141
2P802	10	8' 4''	100	6' 6''				222
2P803	10	11' 4''	100	9' 6''				303
2P904	30	8' 0''	102	6' 7''	1' 7''			816
2P905	10	21' 6''	ST					731
2P906	10	23' 0''	ST					782
2P907	10	24' 6''	ST					833
2P1001	8	16' 2''	102	13' 0''	3' 5''			557
2P1002	4	26' 4''	ST					453
2P1101	6	13' 6''	ST					430
2P1102	4	35' 0''	ST					744
						TOTAL		8,320

SLAB - EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
S601	594	19'10''	ST					17,695
S604	160	30' 0''	ST					7,210
S605	32	32'10''	ST					1,578
						TOTAL		26,483

SLAB EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
S401	294	30' 0''	ST					5,892
S402	4	29' 9''	ST					79
S403	50	29' 6''	ST					985
S501	240	5' 9''	121					1,429
S502	214	3' 6''	122	1' 0''	0' 6''	0'10 1/2''		772
S503	214	2' 4''	102	1' 7''	0'10 1/2''			521
S504	12	2' 7''	101	2' 0''				32
S505	12	1'11''	123					23
S506	12	2' 6''	102	2' 0''	0' 7''			31
S507S	4 SETS OF 5	3' 3'' TO 3'11''	102	2' 9 1/2'' TO 3' 1 1/2''	0' 7'' TO 0'10 1/2''		0' 1''	74
S508S	4 SETS OF 5	2' 8'' TO 3' 0''	103	2' 1'' TO 2' 5''			0' 1''	59
S509	8	11' 6''	ST					96
S510	8	11' 5''	ST					95
S511	56	14' 8''	ST					857
S512	48	7' 2''	ST					359
S513	32	4' 4''	ST					145
S514	4	2' 9''	122	0' 8''	0' 2''	0' 7''		11
S515	4	2'11''	122	0' 9''	0' 3''	0' 8''		12
S516	4	3' 1''	122	0'10''	0' 4''	0' 9''		13
S517	4	3' 4''	122	0'11''	0' 5''	0'10''		14
S518	4	3' 6''	122	1' 0''	0' 6''	0'10 1/2''		14
S602	297	24' 0''	ST					10,706
S603	297	15' 8''	ST					6,989
S606	102	27' 6''	ST					4,213
						TOTAL		33,421

SLAB LIGHT PILASTER EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	A	B	C	SERIES INCREMENT	WEIGHT POUNDS
L505	4	3' 4''	103	2' 4''	0' 7''			14
L506	4	8' 4''	126					35
L507	6	8' 4''	127					52
L508	4	3' 0''	ST					13
						TOTAL		114

SUMMARY AND GRAND TOTAL OF BAR WEIGHTS

ABUTMENT NO 1	6,116
ABUTMENT NO 2	6,194
PIER NO 1	7,450
PIER NO 2	8,320
GRAND TOTAL	28,080

SUMMARY AND GRAND TOTAL OF BAR WEIGHTS

SLAB EPOXY COATED BARS	59,904
SLAB LIGHT PILASTER EPOXY COATED BARS	114
GRAND TOTAL	60018

ESTIMATED QUANTITIES

ITEM EXT.	ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	PIER	GENERAL
21100	503	687	C.Y.	UNCLASSIFIED EXCAVATION		446	241	
11100	505	LUMP	L.S.	PILE DRIVING EQUIPMENT MOBILIZATION				LUMP
22201	507	1,570	L.F.	12" CAST-IN-PLACE REINFORCED CONCRETE PILES(AS PER PLAN)		770	800	
15400	509	28080	LB.	REINFORCING STEEL, GRADE 60		12,310	15,770	
46500	511	121	C.Y.	CLASS C CONCRETE, FOOTINGS		74	47	
44100	511	107	C.Y.	CLASS C CONCRETE, ABUTMENTS ABOVE FOOTINGS		107		
41000	511	63	C.Y.	CLASS C CONCRETE, PIER CAPS AND COLUMNS			63	
31503	511	240	C.Y.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN	240			
11100	513	174930	LB.	STRUCTURAL STEEL (AISC CATEGORY I)	174,930			
01500	514	174930	LB.	FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM A	174,930			
13200	516	49	S.F.	1/2" PREFORMED EXPANSION JOINT FILLER		49		
12000	516	7400	L B.	STRUCTURAL STEEL EXPANSION JOINTS	7400			
21100	518	65	C.Y.	POROUS BACKFILL		65		
41100	518	102	L.F.	6" PERFORATED, HELICAL CORRUGATED STEEL PIPE, 707.01		102		
41200	518	65	L.F.	6" NON-PERF. HELICAL CORRUGATED STEEL PIPE INCL. SPCLS. 707.01		65		
61200	518	47	L.F.	8" STD. PIPE HORIZONTAL CONDUCTOR		47		
13200	518	5	EA.	SCUPPERS, INCLUDING SUPPORTS	5			
11100	523	3	HR.	DYNAMIC PILE TESTS				3
	625			SEE SHEET 236 FOR LIGHTING SUMMARY				
15800	509	60018	LB.	EPOXY COATED REINFORCING STEEL, GRADE 60	60018			
512 67500	SPECIAL	313	S.Y.	SEALING OF CONCRETE SURFACES (SEE PROPOSAL NOTE)	313			

REV. 4-12-90

GPD | 11/11

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE Nº COL-30-3593
RAMP "M" OVER BROADWAY

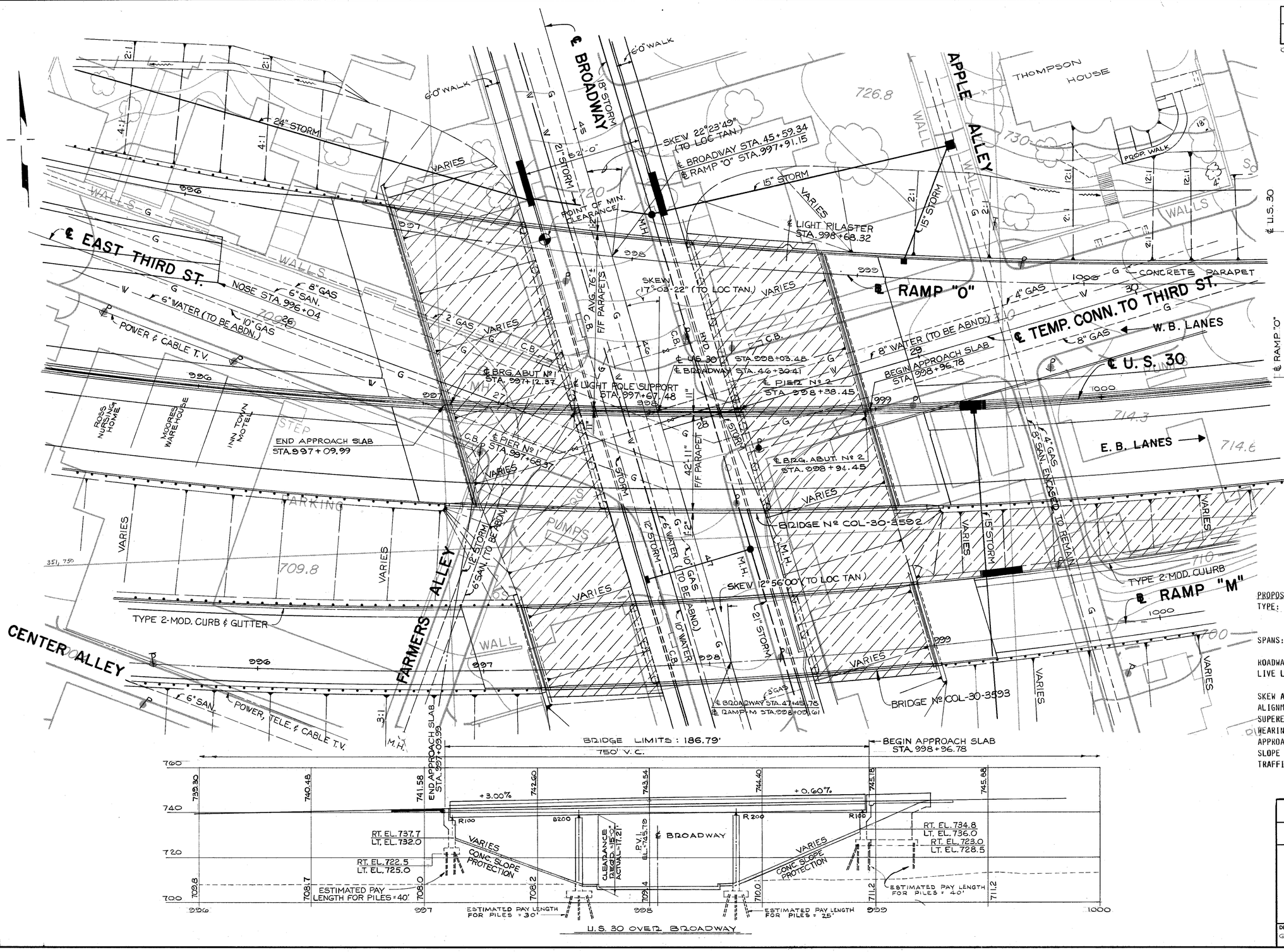
STA. 997+23.87 TO STA. 999+00.23

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	R.L.W.		JRS	RAH	7-13-84	

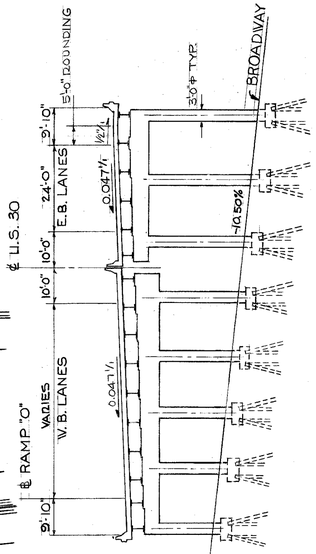
FED. RD.	STATE	PROJECT	
5	OHIO		

306
362

COL-30-35.29



U.S. 30 OVER BROADWAY



MAIN LINE CURVE DATA

Δ = 32°-12'-33" LT.
Dc = 2°-00'-00"
R = 2,864.79'
T = 827.12'
L = 1,610.45'
CH = 1,589.33'
P.I. STA. 1002+00.17

PROPOSED STRUCTURE

TYPE:	CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK SLAB AND SUBSTRUCTURE.
SPANS:	56'-0', 70'-1', 56'-0" C/C BEARINGS (ALONG CENTERLINE).
ROADWAY:	VARIES
LIVE LOAD:	HS20-44 CASE II, AND ALTERNATE MILITARY LOADING
SKEW ANGLE:	17°-03'-22" R.F. (TO LOC. TAN.)
ALIGNMENT:	SEE PLAN
SUPERELEVATION:	VARIES
WEARING SURFACE:	LATEX MODIFIED CONCRETE
APPROACH SLABS:	25' (AS-1-81)
SLOPE PROTECTION:	CONCRETE, 601-06
TRAFFIC DATA:	ADT (2010) 11,930 ADTT (2010) 1,320

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

1 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

SITE PLAN
BRIDGE Nº COL-30-3592

US-30 OVER BROADWAY

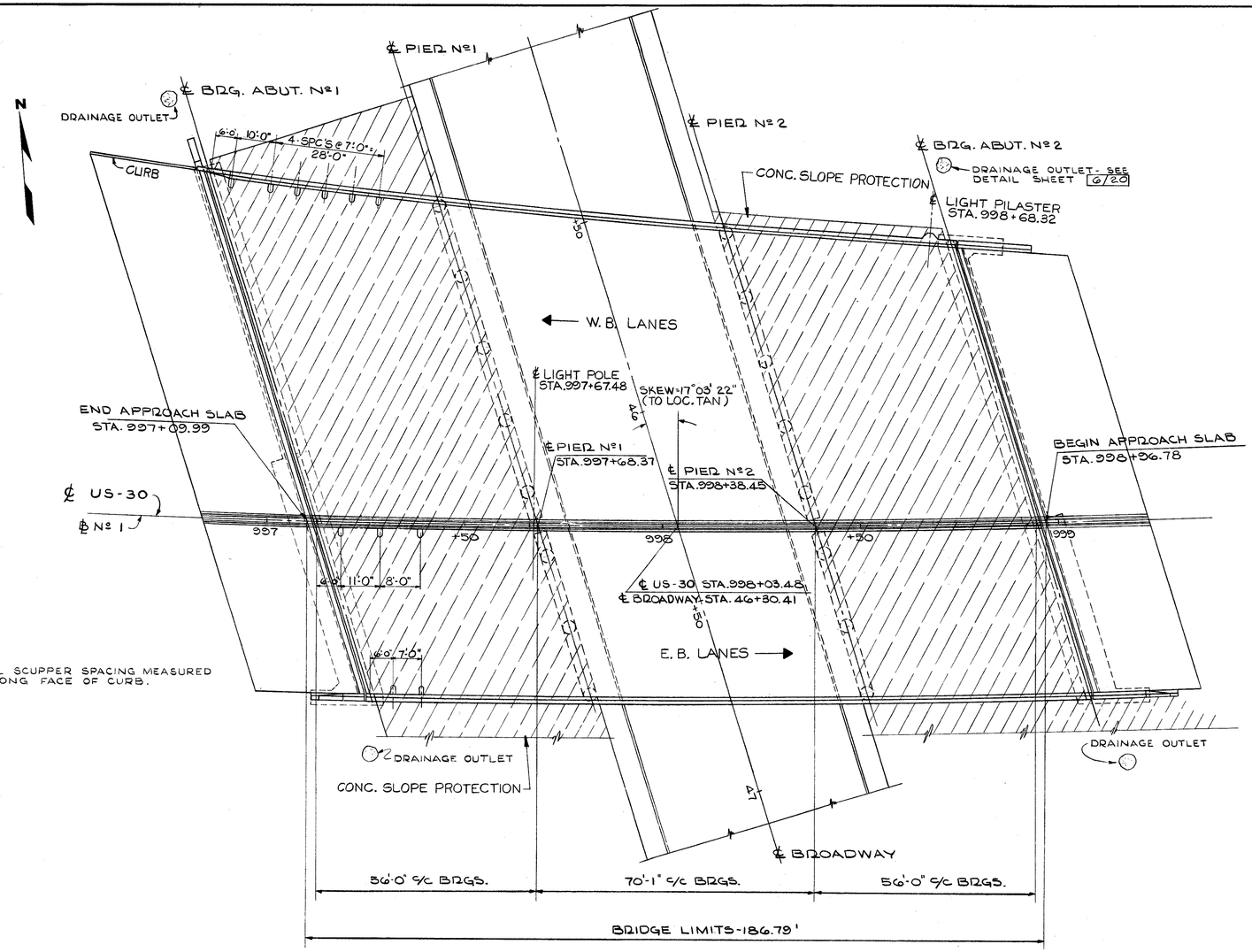
STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
G.C.P.	R.L.W.		D.A.H.	W.K.D.	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

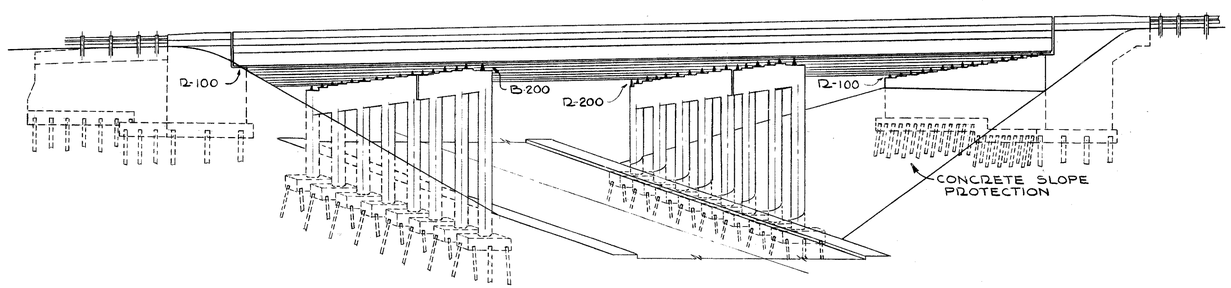
307
362

COL-30-35.29

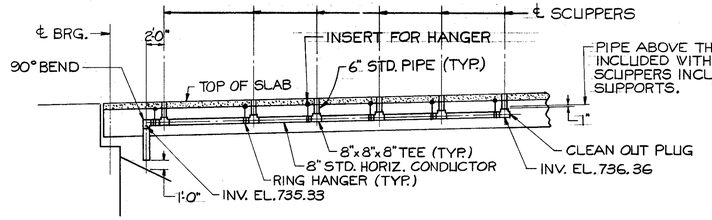


ALL SCUPPER SPACING MEASURED ALONG FACE OF CURB.

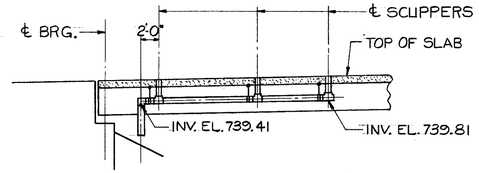
PLAN



ELEVATION

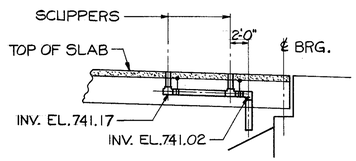


ELEVATION - SCUPPERS - LEFT SIDE



ELEVATION - SCUPPERS - MEDIAN RIGHT SIDE

NOTE: DETAILS SIMILAR AS LEFT SIDE



ELEVATION - SCUPPERS - RIGHT SIDE

NOTE: DETAILS SIMILAR AS LEFT SIDE

NOTES

1) FOR STRUCTURAL GENERAL NOTES AND ESTIMATED QUANTITIES, SEE SHEET 3/20.

2) FOR LIGHT PILASTER DETAILS, SEE STD. DRWGS. HL-3 AND HL-4.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

2 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

GENERAL PLAN & ELEVATION

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	

COL.-30-35.29

REFERENCE

REFERENCE SHALL BE MADE TO THE FOLLOWING:

STANDARD DRAWING NO. AS-1-81 DATED 11-27-81
STANDARD DRAWING NO. BR-1 DATED 05-29-79
STANDARD DRAWING NO. RB-1-55 REVISED 02-02-59
STANDARD DRAWING NO. SD-1-69 DATED 06-12-69

~~SUPPLEMENTAL SPECIFICATION 832 DATED JAN. 30, 1981~~
~~SUPPLEMENTAL SPECIFICATION 859 DATED JAN. 24, 1980~~

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977 INCLUDING THE 1978, 1979, 1980, 1981 AND 1982 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA

DESIGN LOADING:	HS20-44 CASE II AND THE ALTERNATE MILITARY LOADING
CONCRETE CLASS C:	UNIT STRESS - 1333 PSI FOR SUBSTRUCTURE
CONCRETE CLASS S:	UNIT STRESS - 1500 PSI FOR SUPERSTRUCTURE
STRUCTURAL STEEL:	ASTM A36 - UNIT STRESS 20,000 PSI ASTM A325 TYPE 3 H.S. BOLTS
REINFORCING STEEL:	ASTM A615, A616, OR A617 - GRADE 60, UNIT STRESS 24,000 PSI SPIRAL REINFORCEMENT MAY BE PLAIN BARS, ASTM A82 OR A615
DECK PROTECTION METHOD:	1) EPOXY-COATED REINFORCING STEEL, TOP MAT ONLY. ~~2) LATEX MODIFIED CONCRETE OVERLAY.~~
NOTE:	MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES TO BE 1" THICK.

BACKWALL CONCRETE

IN ADDITION TO THE PROVISIONS OF 511.08, BACKWALL CONCRETE ABOVE THE OPTIONAL CONSTRUCTION JOINT AT THE APPROACH SLAB SEAT SHALL NOT BE PLACED UNTIL AFTER THE DECK CONCRETE IN THE SPAN ADJACENT TO THE ABUTMENT HAS BEEN PLACE.

FINISHING MACHINE SUPPORTS

WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE NOT CLOSER THAN 1" FROM EDGE OF FLANGE, BE NOT MORE THAN 2" LONG, AND BE NOT SMALLER THAN THE MINIMUM SIZE REQUIRED BY AASHTO.

SCUPPERS

SCUPPERS SHALL BE IN ACCORDANCE WITH STD. DRWG. NO. SD-1-69.

PIPE CONDUCTORS AND PIPE DOWNSPOUTS INCLUDING SPECIALS SHALL BE STEEL PIPE, 707.08 AND

ITEM 516, PVC WATERSTOP, AS PER PLAN

CONTRACTION (AND EXPANSION) JOINTS SHALL BE SEALED USING THE FOLLOWING MATERIALS:

A 6" PVC WATERSTOP CENTERED ON THE JOINT AND LOCATED IN THE WALL 6" TO 9" FROM THE BACK SIDE. THE WATERSTOP SHALL BE W.R. MEADOWS SEALTIGHT DUO-PVC NO. 6180-D OR NO. 6180-ND OR APPROVED ALTERNATE. THE WATERSTOP SHALL BE CAPABLE OF ACCOMMODATING 1-1/2" OF JOINT MOVEMENT.

WATERSTOP SHALL EXTEND FROM TOP OF FOOTING TO 1'-0" BELOW TOP OF WALL, OR AS SHOWN IN THE PLANS.

MAINTENANCE OF TRAFFIC

TWO LANES OF TRAFFIC WITH A MINIMUM HORIZONTAL WIDTH OF 26'0" AND A MINIMUM VERTICAL CLEARANCE OF 13'-6" SHALL BE MAINTAINED ON BROADWAY AT ALL TIMES.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

UTILITY LINES

ALL EXPENSE INVOVLED IN RELOCATING THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE OWNERS. THE CONTRACTOR AND OWNERS ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

EMBANKMENT CONSTRUCTION

THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE LEVEL OF THE SUBGRADE FOR A MINIMUM DISTANCE OF 200 FEET BACK OF THE ABUTMENTS. EXCAVATION MAY THEN BE MADE FOR THE ABUTMENTS AND PIERS AND PILES DRIVEN.

CIP REINFORCED CONCRETE PILES

THE DESIGN LOAD FOR THE ABUTMENT PILES IS 50 TONS PER PILE AND THE DESIGN LOAD FOR THE PIER PILES IS 50 TONS PER PILE.

THE PILE HAMMER USED TO INSTALL THE CAST-IN-PLACE REINFORCED CONCRETE PILES SHALL HAVE A STATE'S ENERGY RATING OF NOT LESS THAN 17,000 FOOT-POUNDS. THIS REQUIREMENT DOES NOT RELIEVE THE CONTRACTOR FROM 108.05 WHICH STATES THAT THE CONTRACTOR IS TO PROVIDE SUFFICIENT EQUIPMENT FOR PROSECUTING THE REQUIRED WORK. REFER TO ODOT'S MANUAL OF PROCEDURES FOR STRUCTURES TO OBTAIN THE STATE'S ENERGY RATING.

12 INCH PRECAST PRESTRESSED CONCRETE PILES MAY BE SUBSTITUTED FOR THE 12 INCH CAST-IN-PLACE REINFORCED CONCRETE PILES SHOWN ON THESE PLANS. DRAWINGS SHOWING DETAILS OF AND SPECIFICATION FOR PRESTRESSED CONCRETE PILES ARE AVAILABLE FROM THE DIRECTOR (BUREAU OF BRIDGES). IF THE PRESTRESSED PILE ALTERNATE IS CHOSEN, THE METHOD OF MEASUREMENT AND BASIS OF PAYMENT SHALL BE THE SAME AS FOR CAST-IN-PLACE REINFORCED CONCRETE PILES PER 507.

ITEM SPECIAL, SEALING OF CONCRETE SURFACES

A CONCRET SEALER, EITHER SILANE OR AN EPOXY SEALER, SHALL BE APPLIED TO THE CONCRETE SURFACES SHOWN ON THE PLANS. SEE THE PROPOSAL FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION RATES, MATERIAL REQUIREMENTS AND APPLICATION PROCEDURES.

ESTIMATED QUANTITIES

ITEM EXT	ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	PIER	GENERAL
21100	503	1,344	C.Y.	UNCLASSIFIED EXCAVATION		917	427	
11100	505	LUMP	L.S.	PILE DRIVING EQUIPMENT MOBILIZATION				LUMP
22201	507	7,080	L.F.	12" Ø CAST-IN-PLACE REINFORCED CONCRETE PILES (AS PER PLAN)		4,440	2,640	
15400	509	141768	LB.	REINFORCING STEEL, GRADE 60		54,414	87,354	
46500	511	388	C.Y.	CLASS C CONCRETE, FOOTINGS		246	142	
45500	511	416	C.Y.	CLASS C CONCRETE ABUTMENTS, ABOVE FOOTINGS		416		
41000	511	249	C.Y.	CLASS C CONCRETE, PIER CAPS AND COLUMNS			249	
31503	511	702	C.Y.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN	702			
11100	513	624,700	LB.	STRUCTURAL STEEL (AISC CATEGORY I)	624,700			
01500	514	624,700	LB.	FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM A	624,700			
10000	516	7	L.F.	ELASTOMERIC COMPRESSION SEALS	7			
13400	516	125	S.F.	1" PREFORMED EXPANSION JOINT FILLER		125		
13200	516	135	S.F.	1/2" PREFORMED EXPANSION JOINT FILLER		135		
30501	516	78	L.F.	PVC WATERSTOP, AS PER PLAN		78		
31000	516	51	L.F.	JOINT SEALER		51		
12000	516	25,000	LB.	STRUCTURAL STEEL EXPANSION JOINTS	25,000			
41100	518	253	L.F.	6" PERFORATED, HELICAL CORRUGATED STEEL PIPE, 707-01		253		
41200	518	140	L.F.	6" NON-PERF. HELICAL CORRUGATED STEEL PIPE INCL. SPECLS 707.01		140		
21100	518	267	C.Y.	POROUS BACKFILL		267		
12200	518	11	EA.	SCUPPERS, INCLUDING SUPPORTS	11			
61200	518	85	L.F.	8" STD. PIPE HORIZONTAL CONDUCTOR	85			
11100	523	6	HR.	DYNAMIC PILE TESTS				6
	625			SEE SHEET 236 FOR LIGHTING SUMMARY				
25400	625	184	L.F.	2" Ø CONDUIT, 713.04	184			
	509	192143	LB.	EPOXY COATED REINFORCING STEEL, GRADE 60	190853	1,290		
512 61500	SPECIAL	740	S.Y.	SEALING OF CONCRETE SURFACE (SEE PROPOSAL NOTE)	740			

REV. 4-12-90

GPD
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

3 / 20

GENERAL NOTES & EST. QUANTITIES

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	R.L.W.		JRS	RLH	7-13-84	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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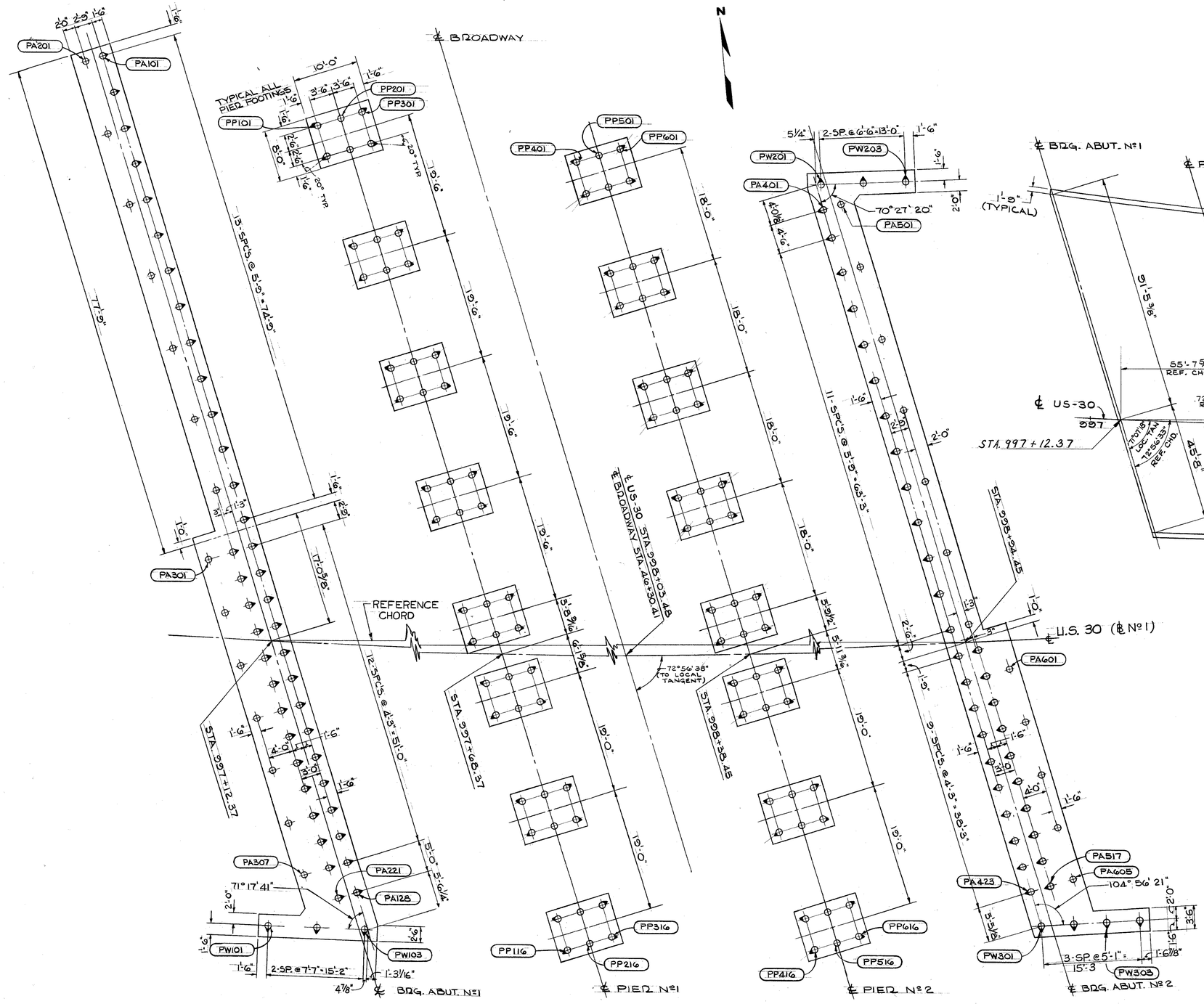
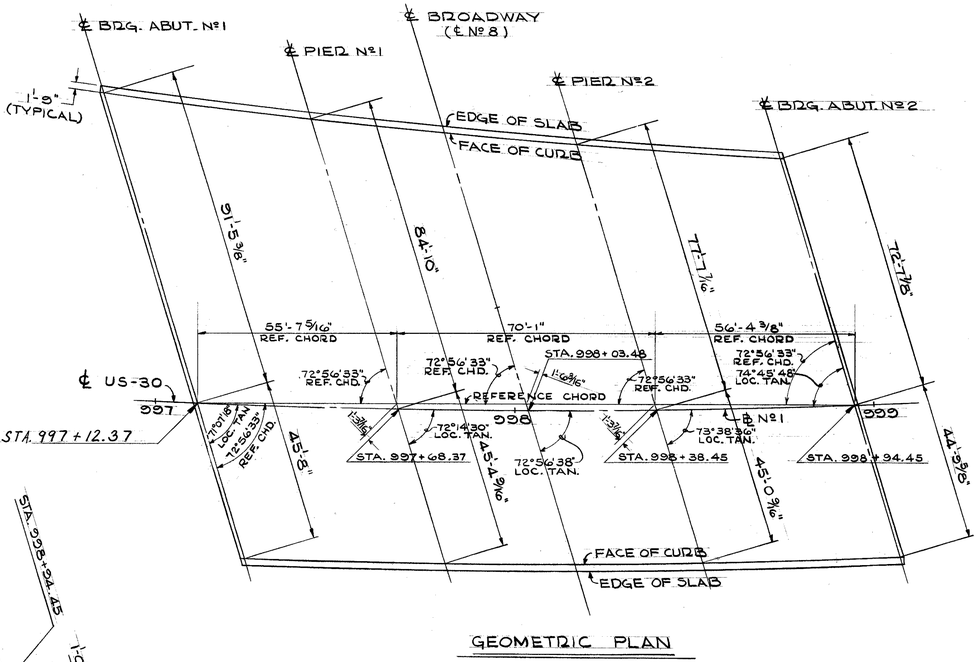
COL-30-35.29



PILE PLAN



GEOMETRIC PLAN

ALL PILES ARE 12"Φ CAST-IN-PLACE REINFORCED CONCRETE PILES

○— INDICATES DIRECTION OF 1:4 BATTERED PILES.

(PA101)
(PP101)
(PW101)

THE NUMBERS AS INDICATED ABOVE SHALL BE THE PILE MARK. THE FIRST LETTER REFERS TO PILE, THE SECOND LETTER REFERS TO A-ABUTMENT, P-PIER, W-WINGWALL. THE FIRST DIGIT INDICATES PILE ROW. THE SECOND AND THIRD DIGITS INDICATE THE POSITION IN THAT ROW. FOR EXAMPLE: (PA103) INDICATES THE THIRD PILE IN THE FIRST ROW OF THE ABUTMENT.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

4/20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

GEOMETRIC & PILE PLANS

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	A.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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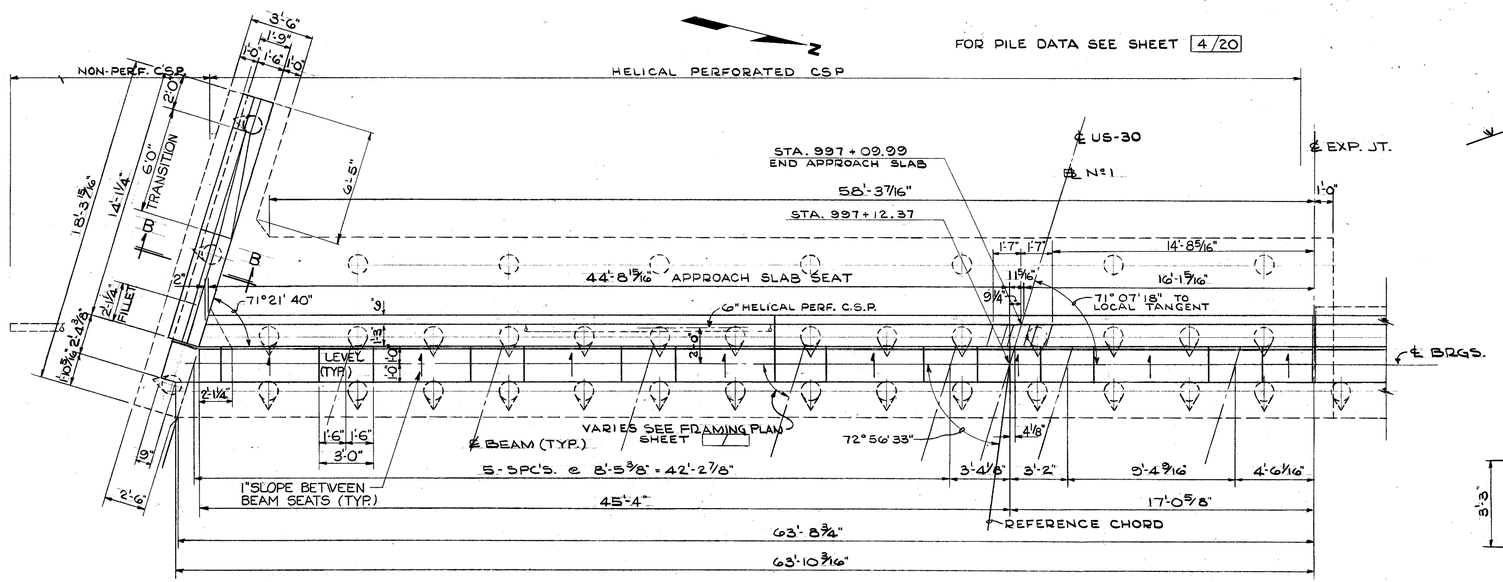
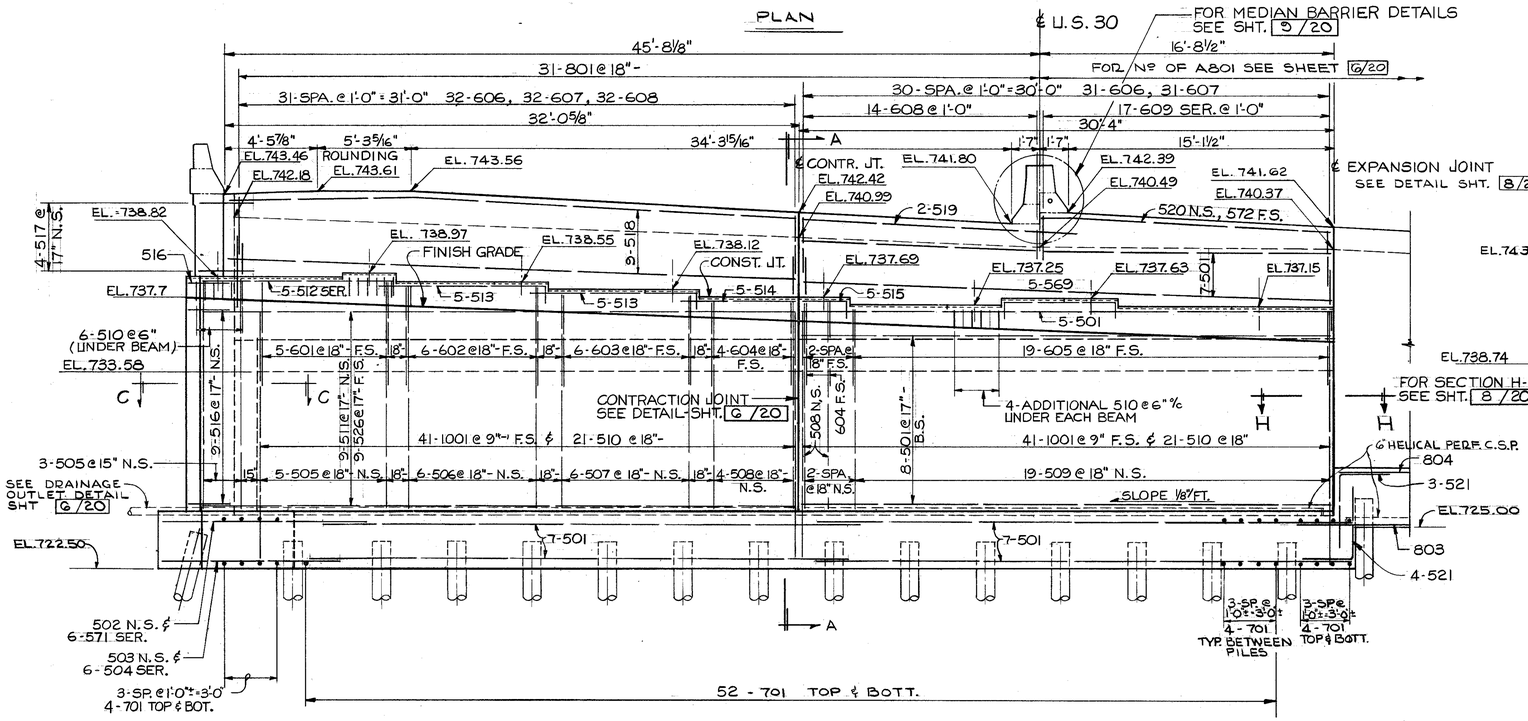
COL-30-35.29

* INDICATES EPOXY COATED BARS

FOR PILE DATA SEE SHEET 4/20

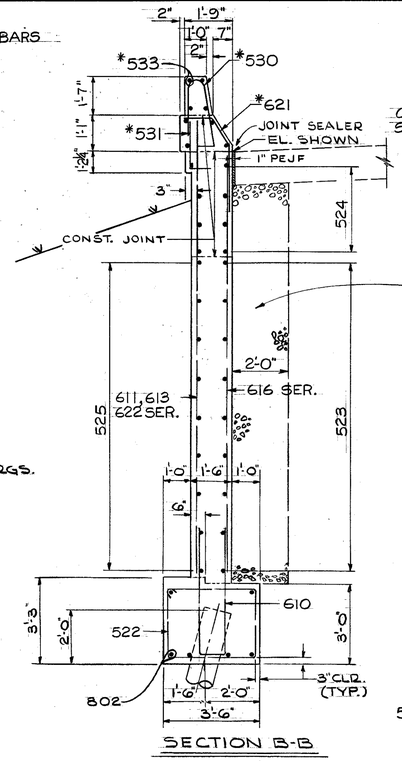


PLAN

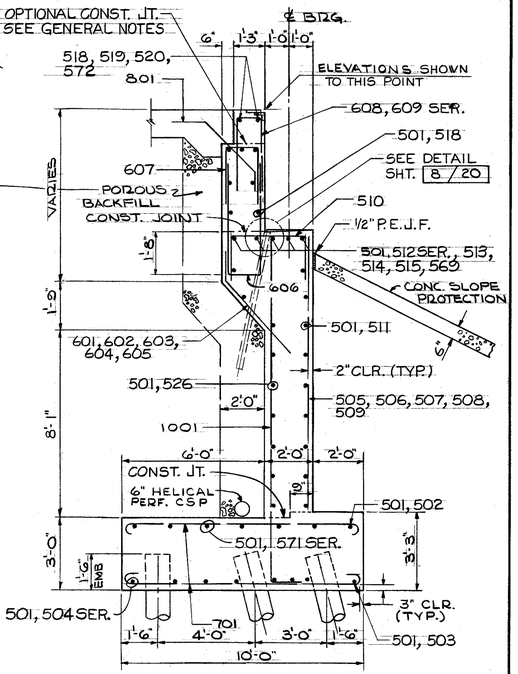


ELEVATION

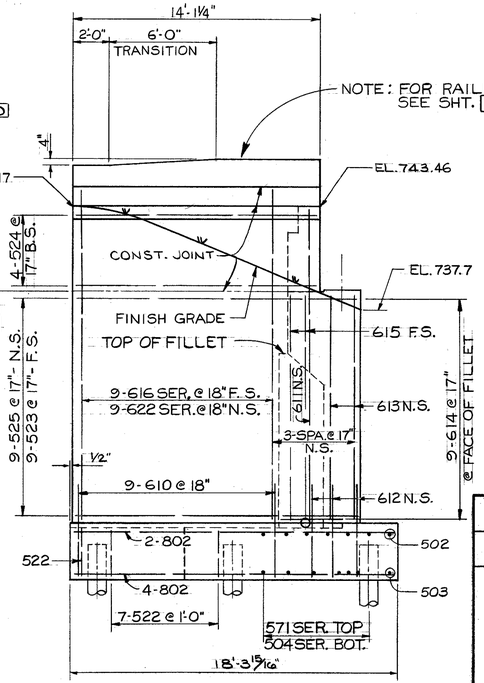
FOR NOTES, SEE SHEET 6/20



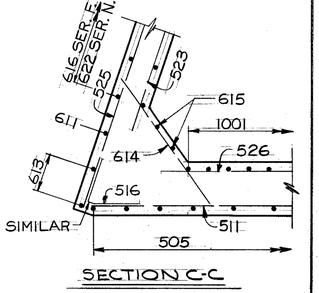
SECTION B-B



SECTION A-A



WING WALL ELEVATION



SECTION C-C

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

5/20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

ABUTMENT Nº 1 (RT.)

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ML	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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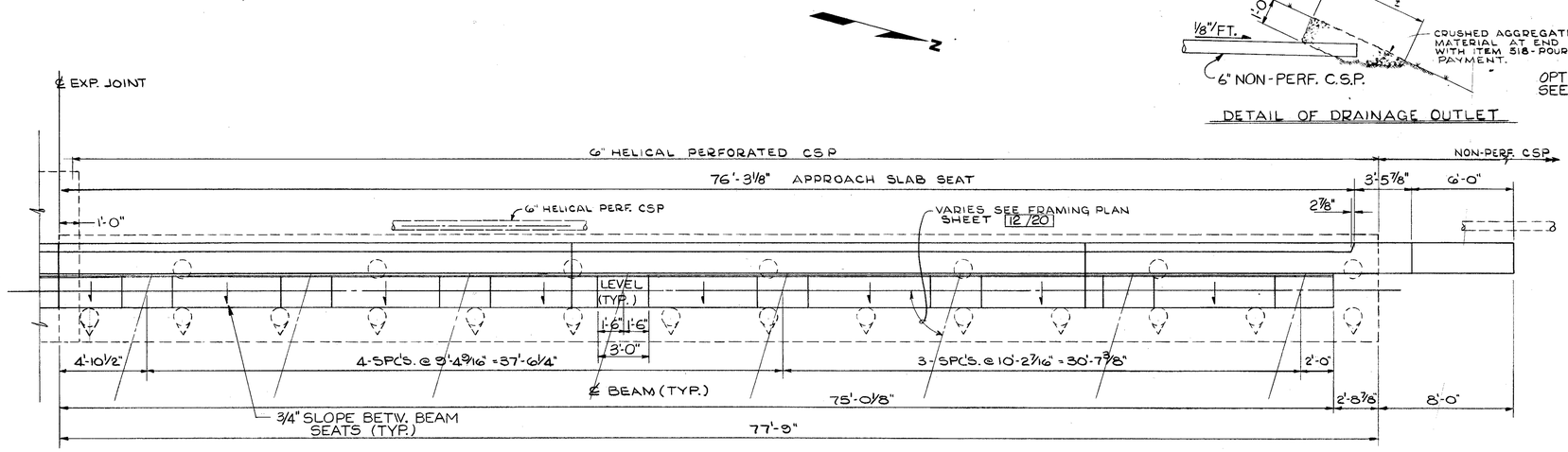
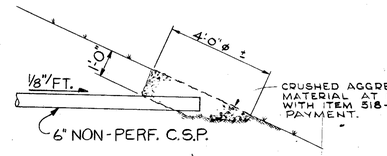
COL-30-35.29

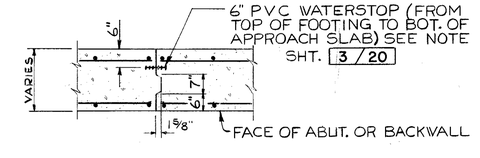


FOR PILE DATA SEE SHEET 4/20

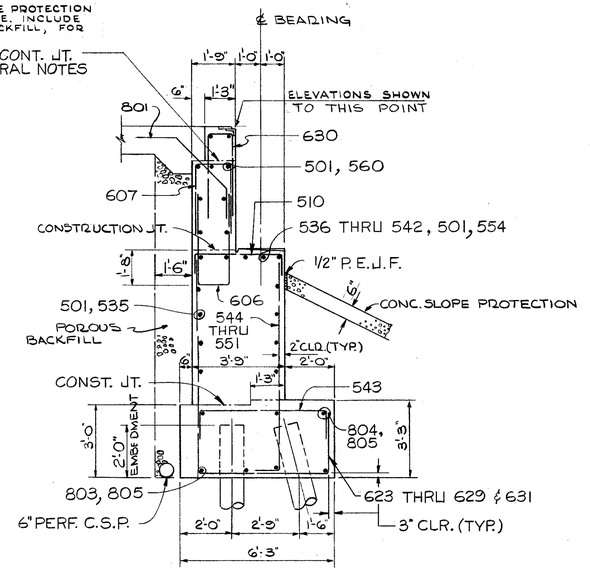
PLAN



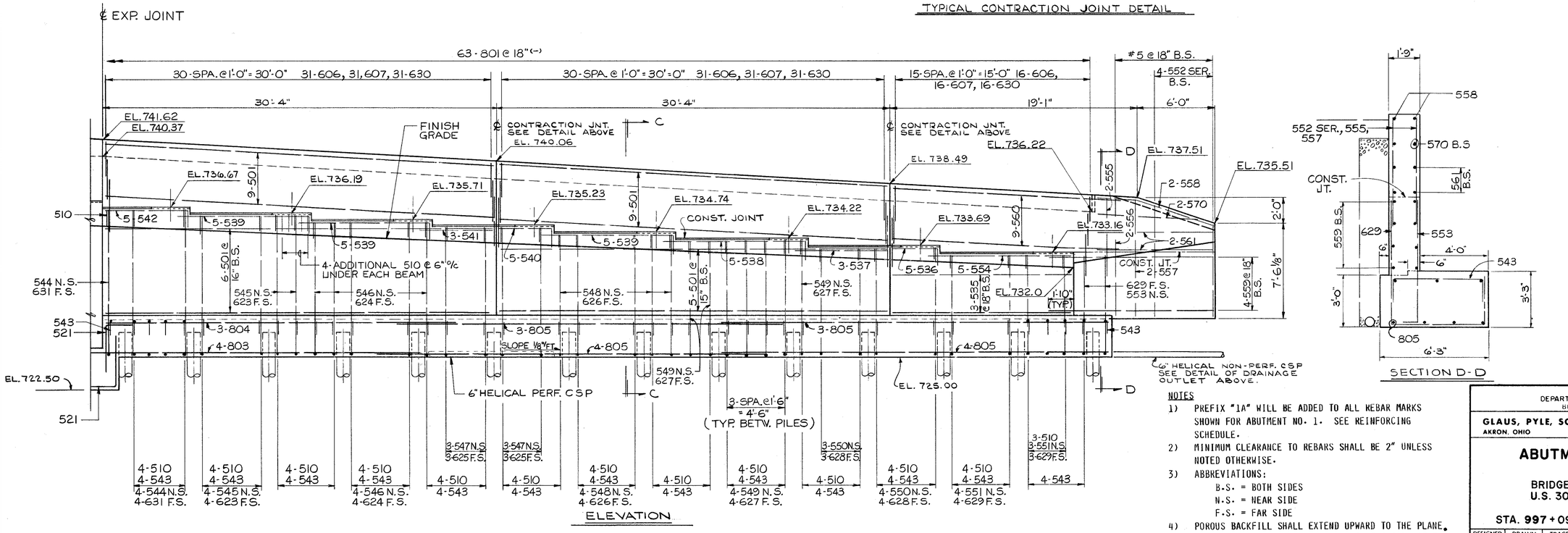
DETAIL OF DRAINAGE OUTLET



TYPICAL CONTRACTION JOINT DETAIL



SECTION C-C



ELEVATION

SECTION D-D

NOTES

1) PREFIX "1A" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR ABUTMENT NO. 1. SEE REINFORCING SCHEDULE.
2) MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3) ABBREVIATIONS:
   B.S. = BOTH SIDES
   N.S. = NEAR SIDE
   F.S. = FAR SIDE
4) POROUS BACKFILL SHALL EXTEND UPWARD TO THE PLANE OF THE SUBGRADE, AND LATERALLY TO THE ENDS OF THE FOOTING.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

6/20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

ABUTMENT Nº 1 (LT.)

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ML	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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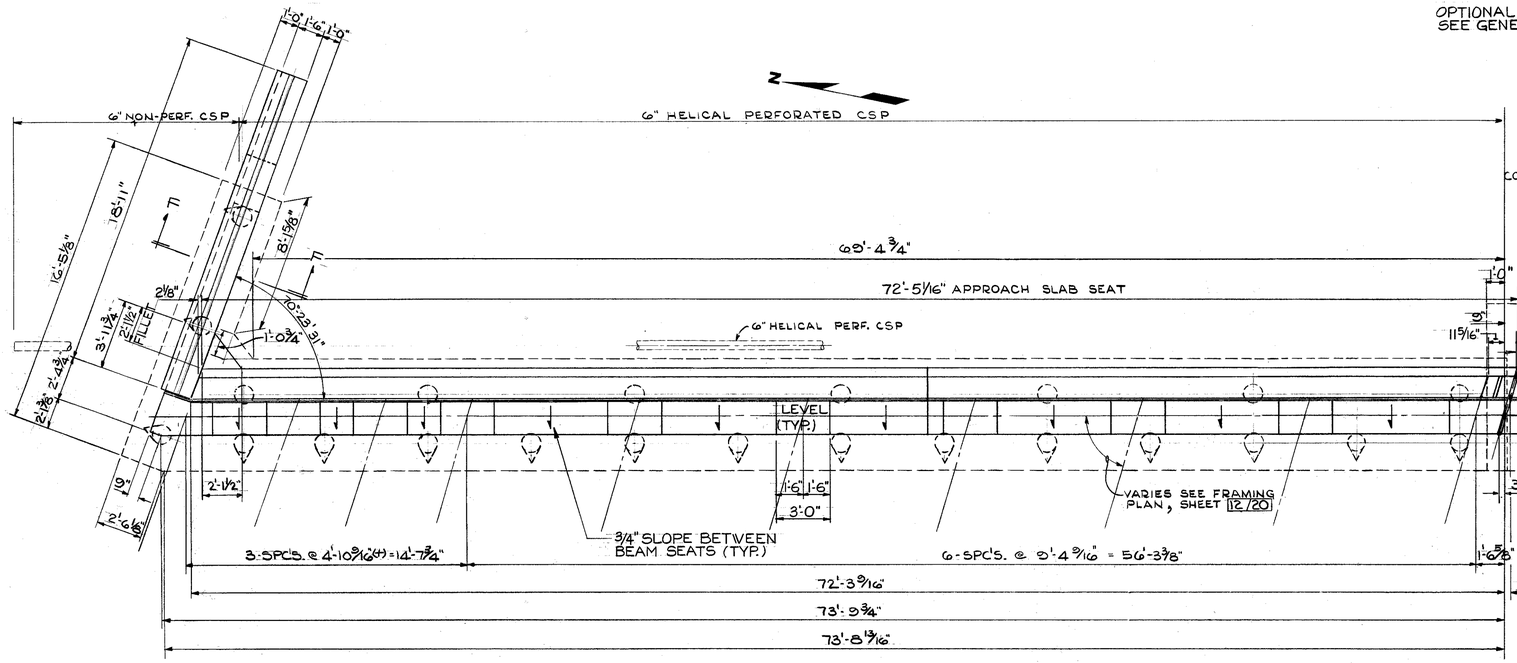
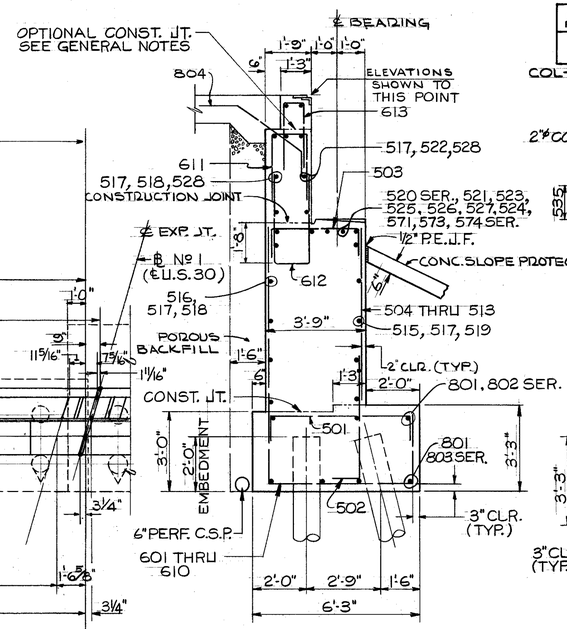
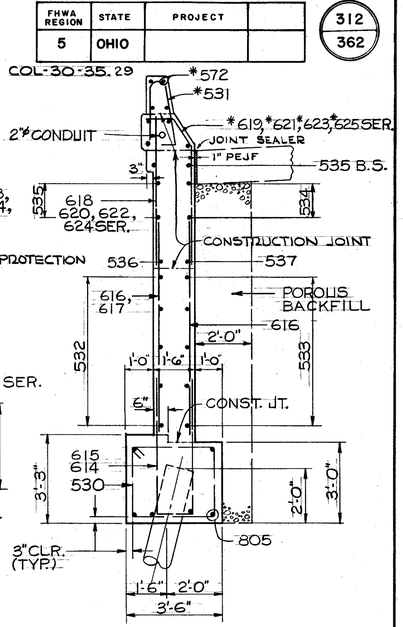


FOR PILE DATA SEE SHEET 4/20

PLAN

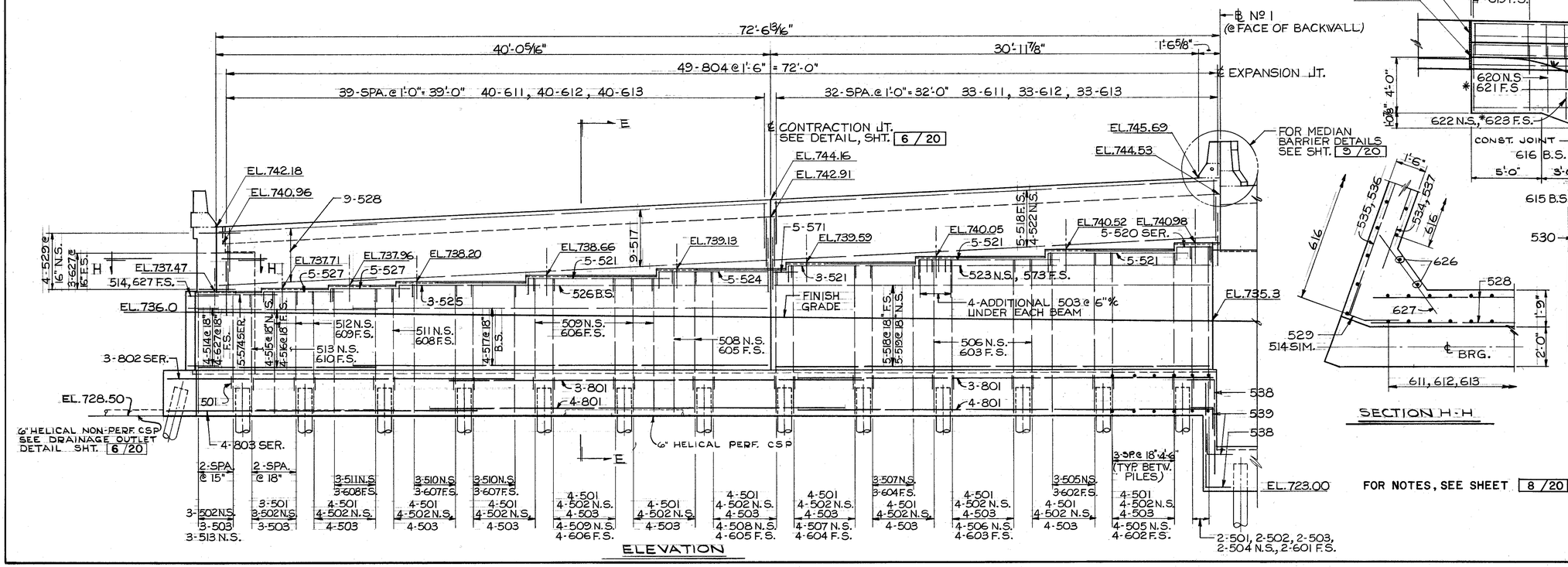


SECTION E-E



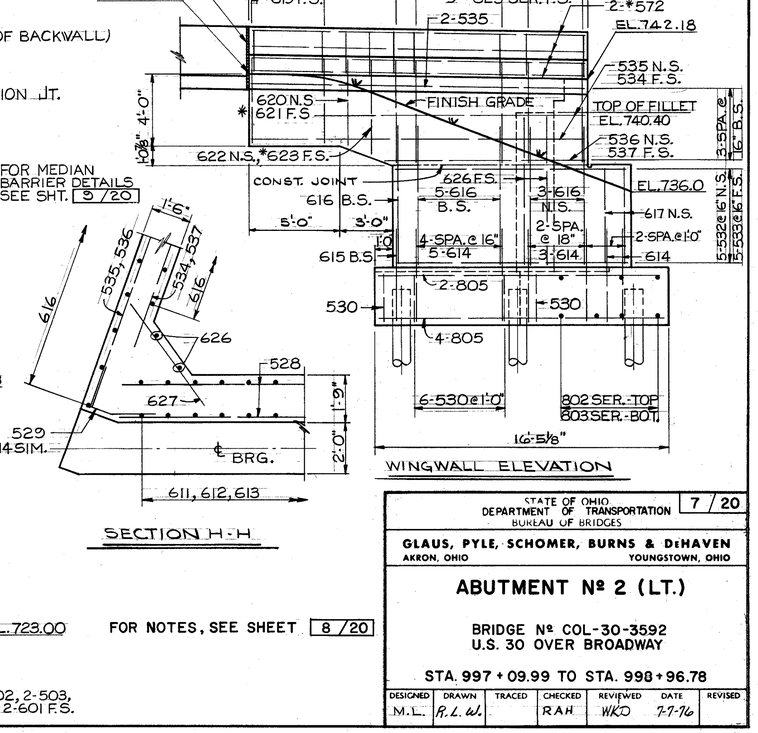
SECTION F-F

*INDICATES EPOXY COATED BARS.



ELEVATION

FOR NOTES, SEE SHEET 8/20



WINGWALL ELEVATION

SECTION H-H

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

7/20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

ABUTMENT No 2 (LT.)

BRIDGE No COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997 + 09.99 TO STA. 998 + 96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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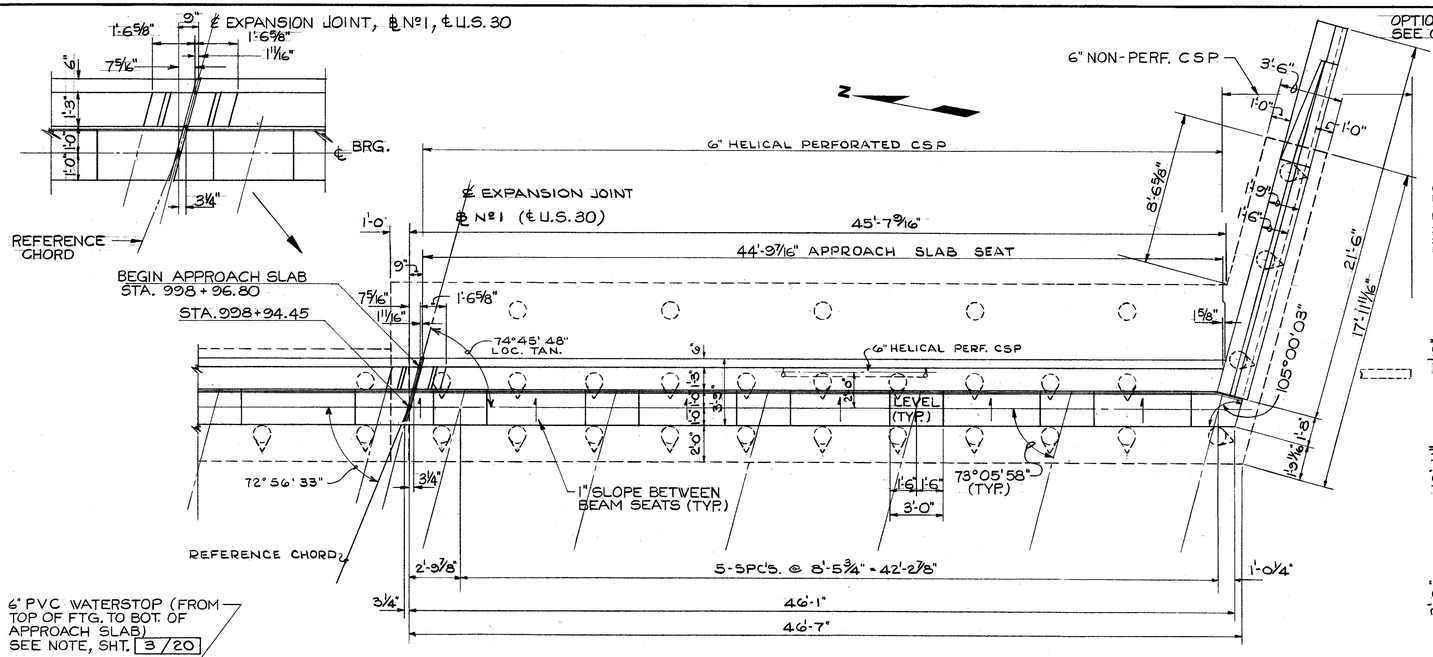
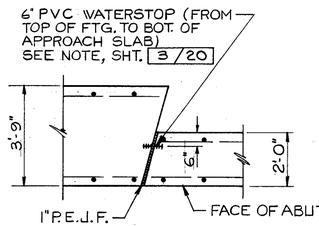
COL-30-35.29

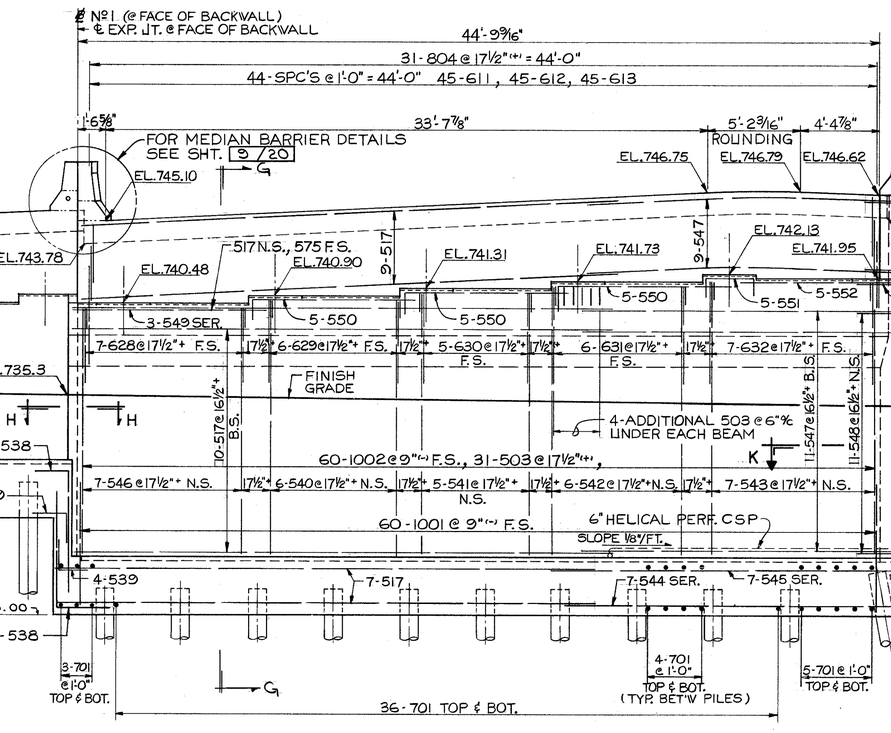


FOR PILE DATA SEE SHEET 4/20

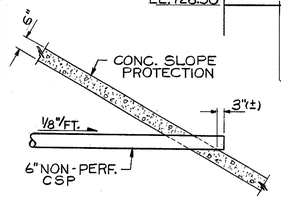
PLAN



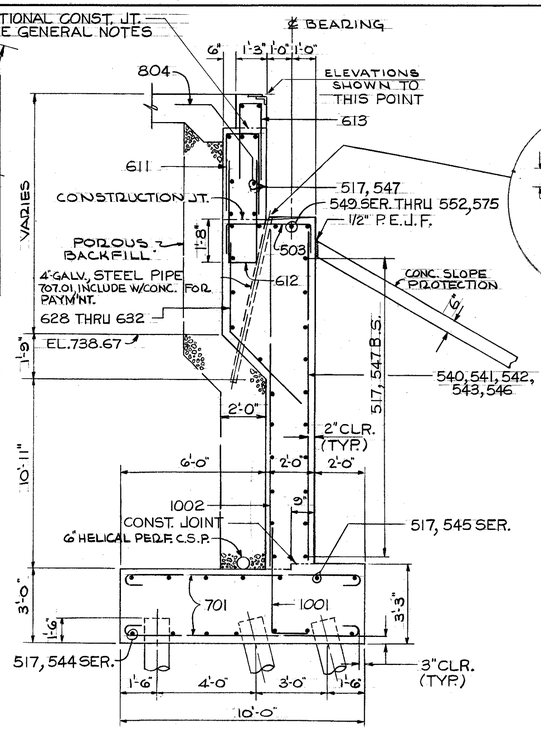
SECTION H-H
EXPANSION JOINT DETAIL
NOTE: JOINT NORMAL FOR ABUT. Nº 1



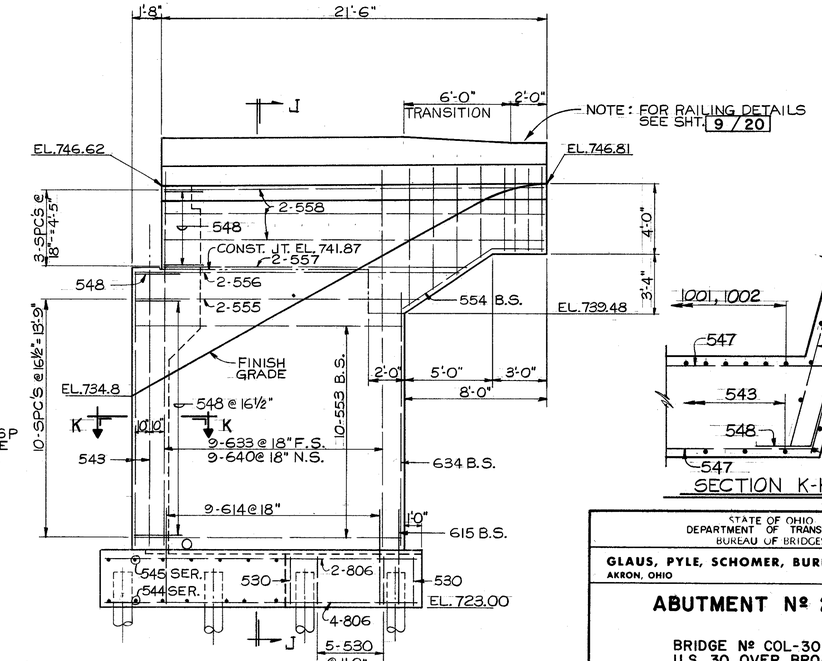
ELEVATION

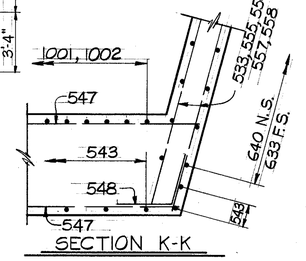


DETAIL "A"



SECTION G-G





SECTION K-K

NOTES

1) PREFIX "2A" WILL BE ADDED TO ALL REBAR MARKS SHOWN FOR ABUTMENT NO. 2. SEE REINFORCING SCHEDULE.
2) MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3) ABBREVIATIONS:
   B.S. = BOTH SIDES
   N.S. = NEAR SIDE
   F.S. = FAR SIDE
4) POROUS BACKFILL SHALL EXTEND UPWARD TO THE PLANE OF THE SUBGRADE, AND LATERALLY TO THE WINGWALLS.
5) FOR SECTION JJ, SEE SHEET 9/20

WINGWALL ELEVATION

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

8/20

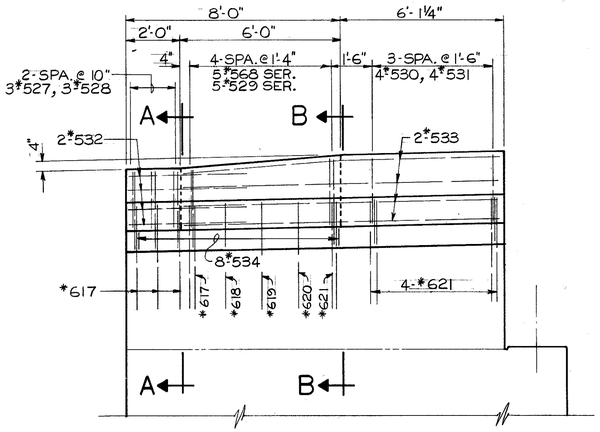
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

ABUTMENT Nº 2 (RT.)

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

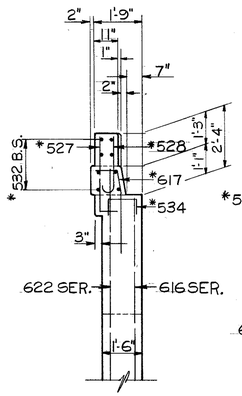
STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	P.L.W.		RAH	WKD	7-7-76	

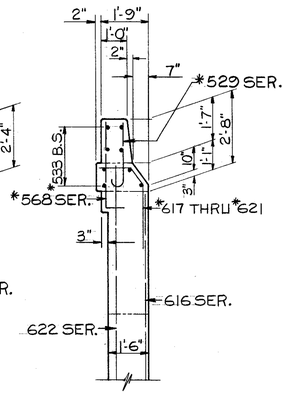


ELEVATION - TRANSITION DETAIL

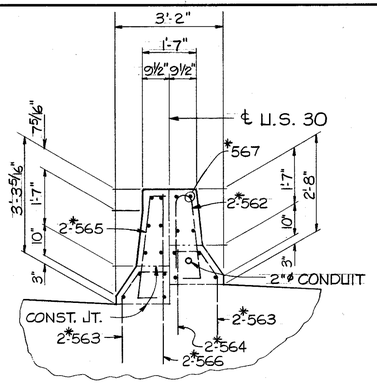
ABUTMENT Nº 1 (RT.)



SECTION A-A

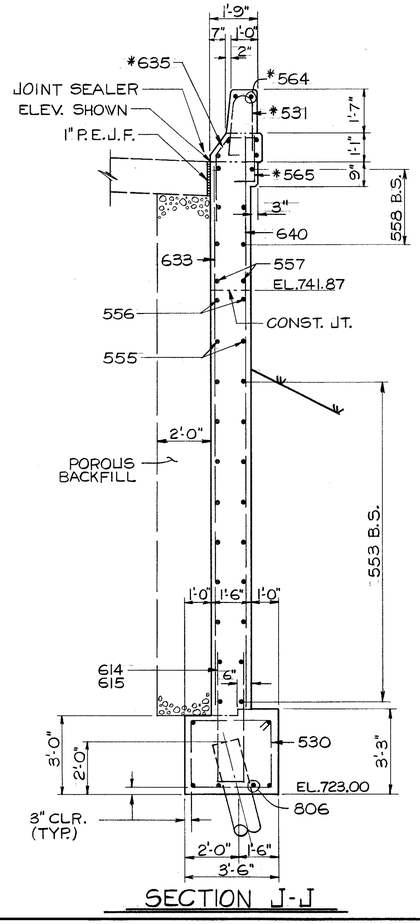


SECTION B-B

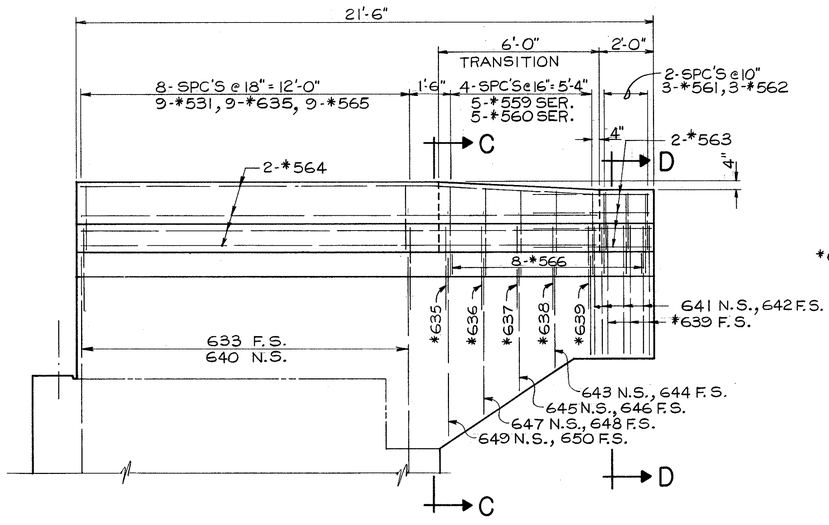


ABUT. Nº 1-MEDIAN BARRIER DETAIL

DIMENSIONS ARE ALONG FACE OF ABUTMENT BACKWALL

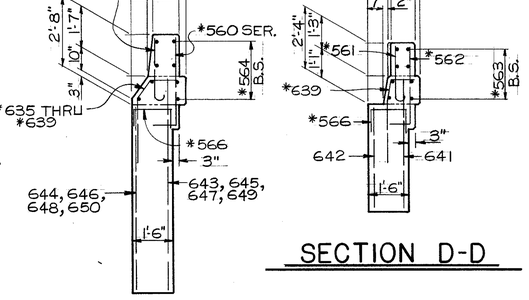


SECTION J-J



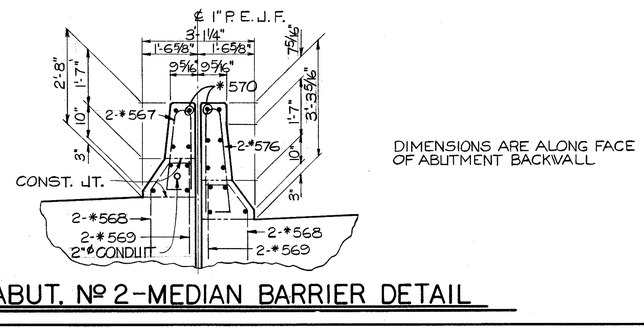
ELEVATION - TRANSITION DETAIL

ABUTMENT Nº 2 (RT.)



SECTION C-C

SECTION D-D



DIMENSIONS ARE ALONG FACE OF ABUTMENT BACKWALL

ABUT. Nº 2-MEDIAN BARRIER DETAIL

NOTES
1) FOR LOCATION OF SECTION JJ, SEE SHEET 9/20
2) FOR ADDITIONAL NOTES, SEE SHEETS 6/20 AND 8/20

GPD — GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

9/20

ABUTMENT DETAILS

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997 + 09.99 TO STA. 998 + 96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	R.L.W.		JRS	RAH	7-13-84	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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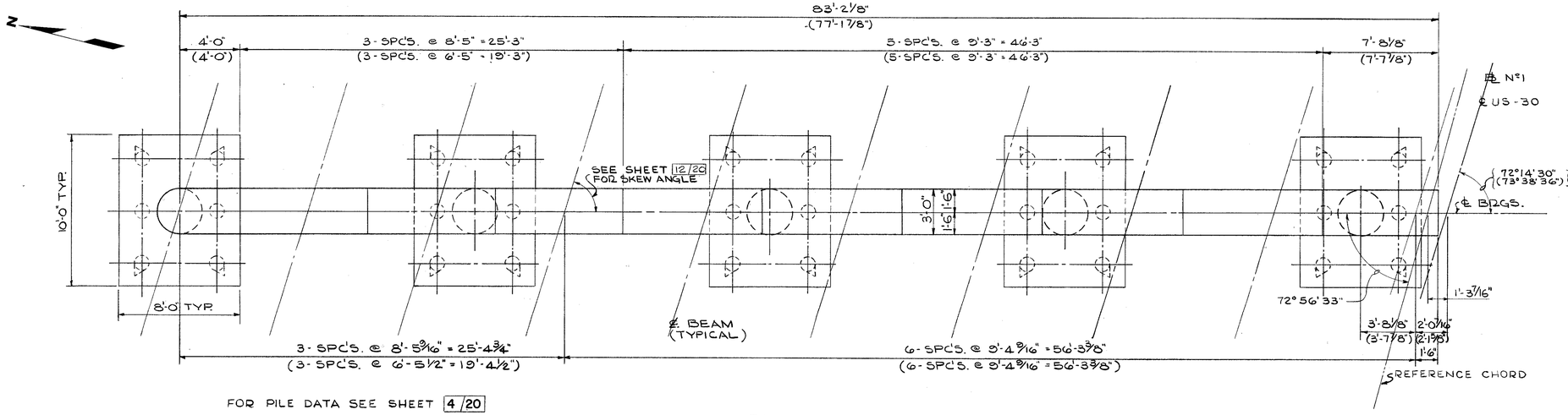
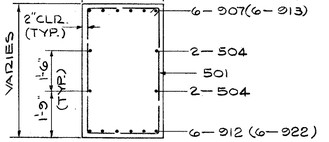
362

COL-30-35.29

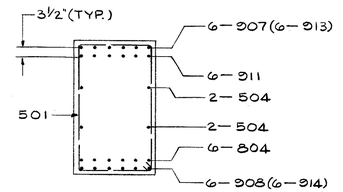


FOR PILE DATA SEE SHEET 4/20

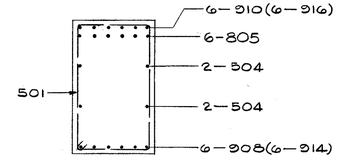
PLAN



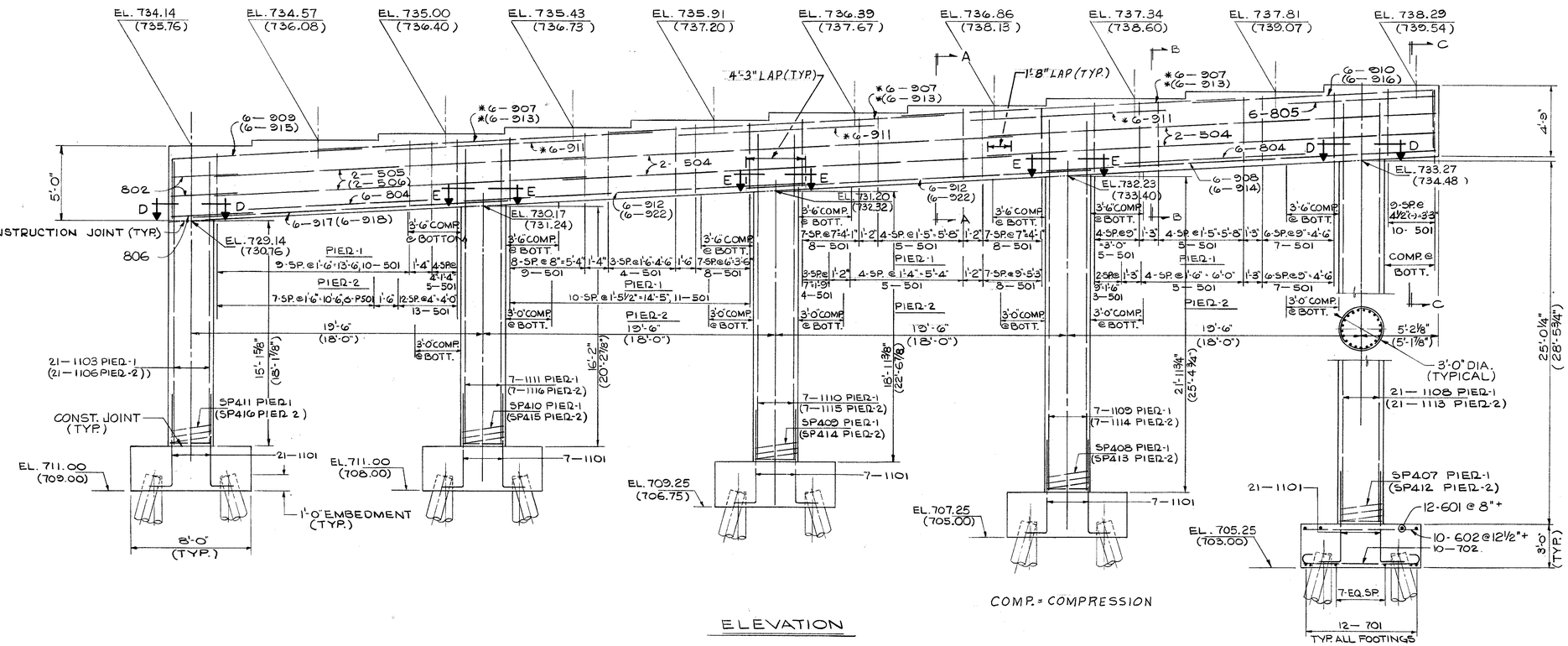
SECTION A-A



SECTION B-B



SECTION C-C



ELEVATION

PIER 1 LEFT SHOWN, PIER 2 LEFT SIMILAR EXCEPT FOR REINF. & DIMENSIONS SHOWN IN PARENTHESIS.

COMP. = COMPRESSION

NOTE:
THE HOOKED CORNER OF THE STIRRUP SHALL BE PLACED IN THE COMPRESSION AREA OF THE BEAM.

REINF. BARS MARKED * TO BE PLACED CENTER OVER COLUMN.

FOR NOTES, SEE SHEET 11/20

FOR SECTIONS DD AND EE, SEE SHEET 11/20

FOR ANCHOR BOLT LAYOUT, SEE SHEET 11/20

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

10/20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

PIERS Nº 1 & 2 (LT.)

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997 +09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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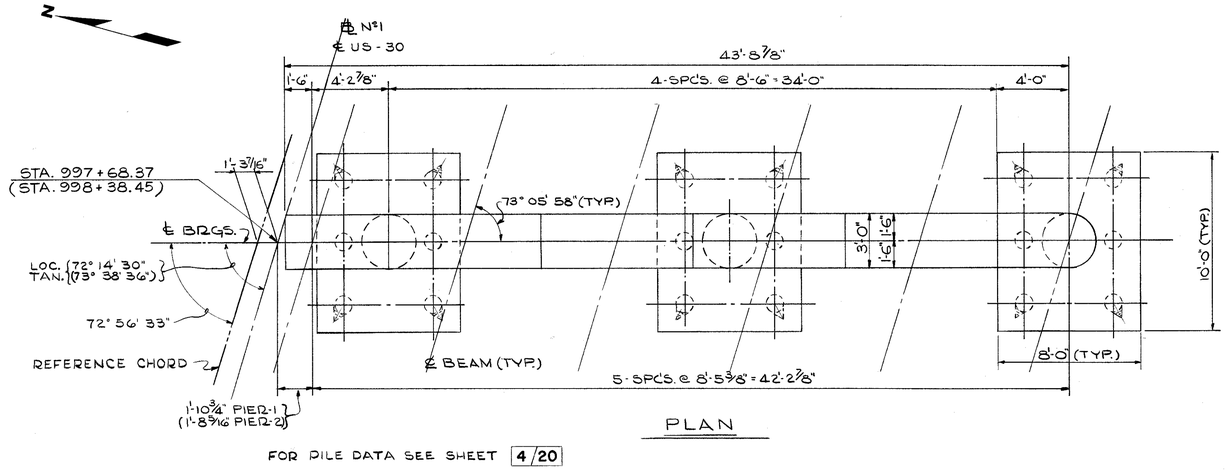
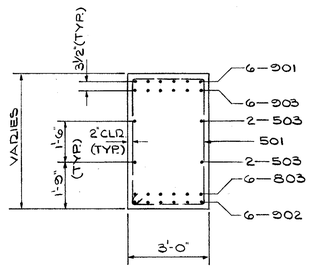
COL-30-35.29

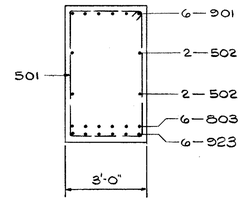


PLAN

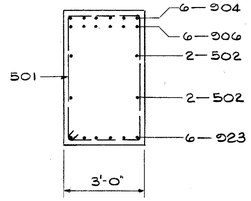
FOR PILE DATA SEE SHEET 4/20



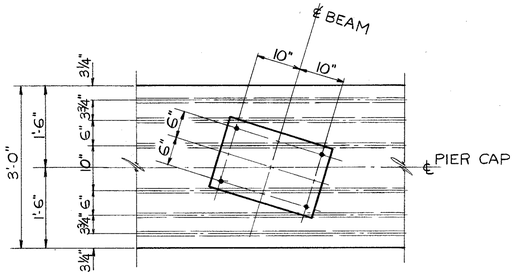
SECTION A-A



SECTION B-B

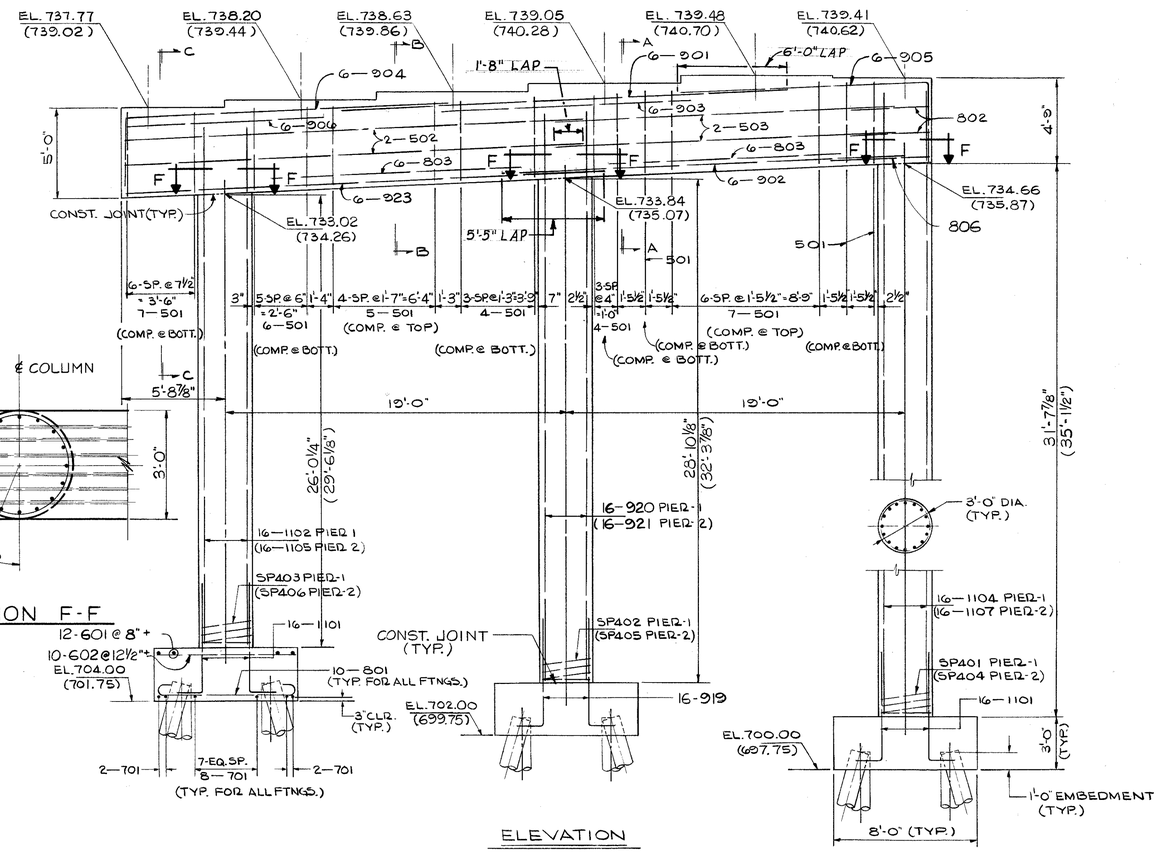


SECTION C-C



ANCHOR BOLT DETAIL

PIER N°1-ONLY, NO ANCHORS REQUIRED AT PIER N°2.

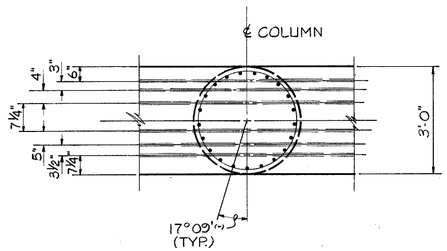


SECTION F-F

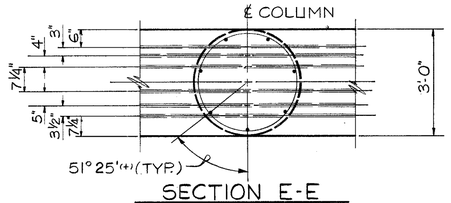
ELEVATION

PIER 1 RIGHT SHOWN, PIER 2 RIGHT SIMILAR EXCEPT FOR DIMENSIONS & REINFORCING SHOWN IN PARENTHESIS.

NOTE:
THE HOOKED CORNER OF THE STIRRUP SHALL BE PLACED IN THE COMPRESSION AREA OF THE BEAM.



SECTION D-D



SECTION E-E

NOTES

1) PREFIXES "1P" AND "2P" WILL BE ADDED TO ALL REBAR MARKS EXCEPT THOSE INDICATING SPIRALS, FOR PIER NO. 1 AND PIER NO. 2 RESPECTIVELY. SPIRALS WILL BE PREFIXED "1" AND "2" RESPECTIVELY. SEE REINFORCING SCHEDULE.
2) MINIMUM CLEARANCE TO REBARS SHALL BE 2" UNLESS NOTED OTHERWISE.
3) BEARING SEAT REINFORCING: REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT OF PIER NO. 1 SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF BEARING ANCHORS.
4) BEARING ANCHORS: AT THE OPTION OF THE CONTRACTOR, BEARING ANCHORS (OR FORMED HOLES AT PIER NO. 1), LOCATED AND SUPPORTED BY TEMPLATES, MAY BE CAST IN PLACE.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

11 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

PIERS Nº 1 & 2 (RT.)

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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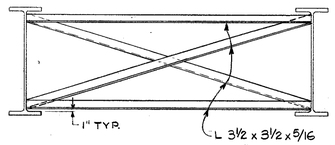
COL. 30-35.29

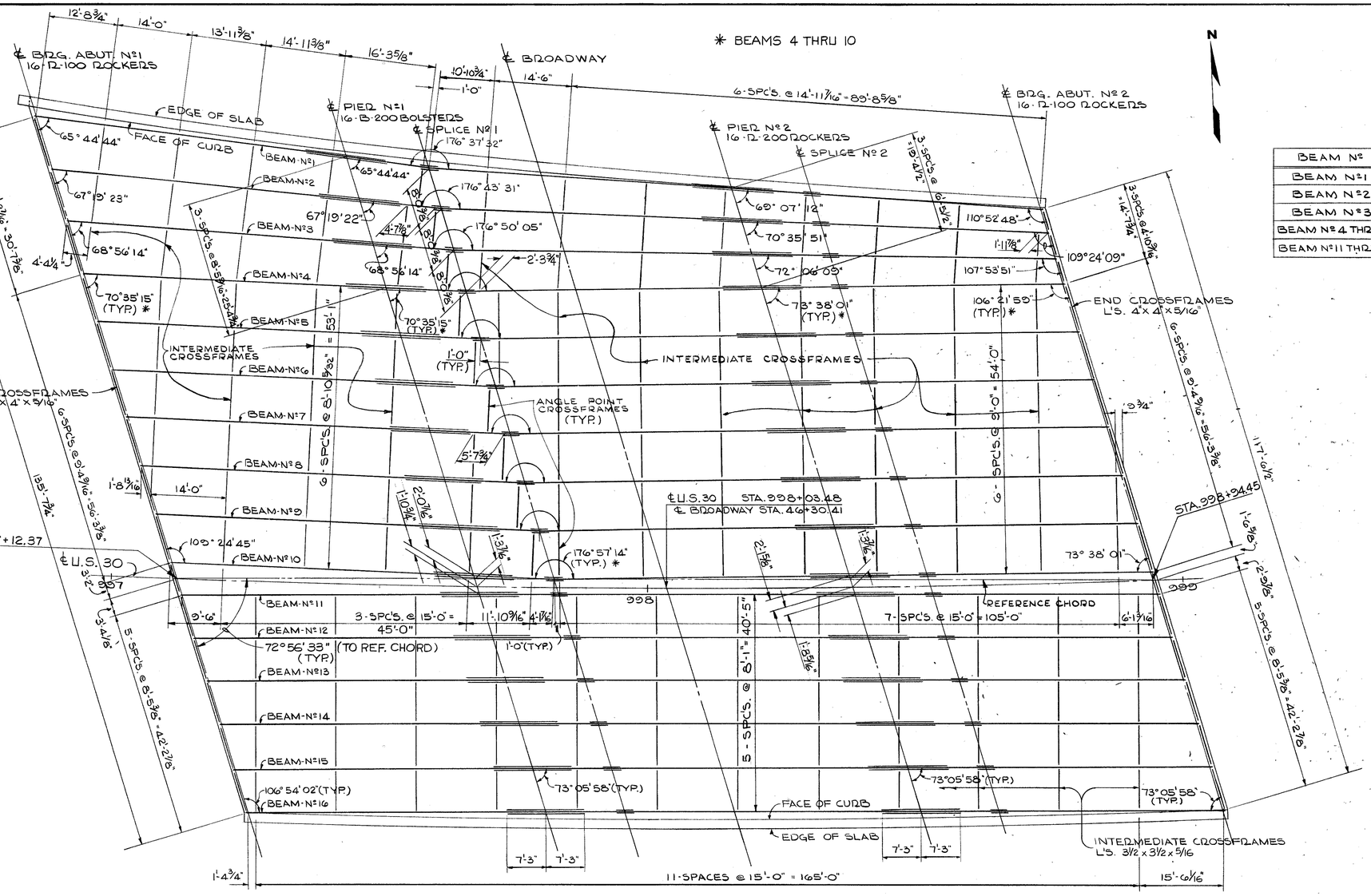
BEAM Nº	DIM. A	B	C	D	E	F	G	H
BEAM Nº1	58'-3¾"	72'-0³/₁₆"	57'-8⅛"	188'-0⁹/₁₆"	14'-7⁷/₁₆"	57'-5⁵/₁₆"	14'-10⁷/₁₆"	42'-9³/₈"
BEAM Nº2	57'-7³/₈"	71'-4³/₁₆"	57'-1³/₁₆"	186'-1⅛"	14'-5³/₈"	56'-10⁵/₁₆"	14'-9"	42'-4⁹/₁₆"
BEAM Nº3	56'-11⁵/₈"	70'-8¼"	56'-7½"	184'-3³/₈"	14'-3⁷/₁₆"	56'-4¹³/₁₆"	14'-7⁷/₁₆"	42'-0¹/₁₆"
BEAM Nº4 THRU-10	56'-4³/₈"	70'-0⅞"	56'-1⁵/₁₆"	182'-7³/₁₆"	14'-1⁵/₈"	55'-11¼"	14'-6"	41'-7¹⁵/₁₆"
BEAM Nº11 THRU-16	55'-6³/₄"	70'-0¼"	56'-3¹³/₁₆"	181'-10¹³/₁₆"	14'-6"	55'-6¼"	14'-6"	41'-9¹³/₁₆"



ANGLE POINT CROSSFRAME TYPICAL
SEE NOTE (7)

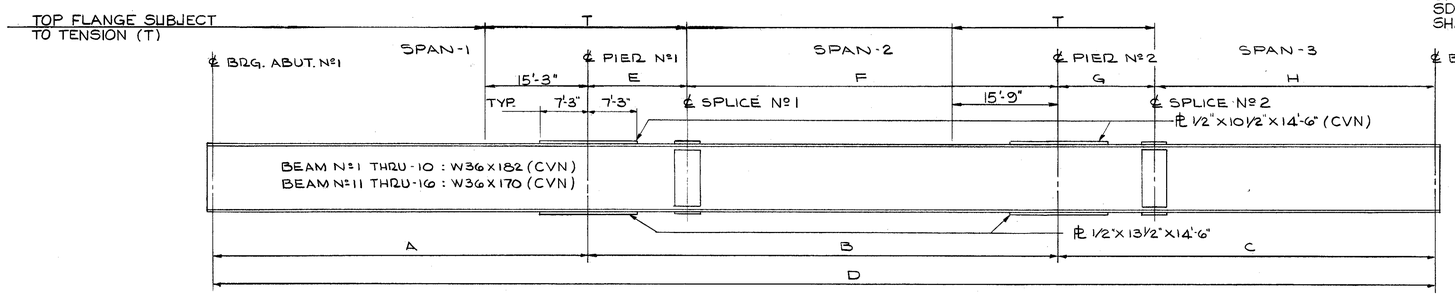
NOTES

1) ALL STRUCTURAL STEEL SHALL BE ASTM A-36 UNLESS NOTED OTHERWISE.
2) WHERE A SHAPE OR PLATE IS DESIGNATED (CVN) THE MATERIAL SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.
3) BEARINGS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING NO. RB-1-55 EXCEPT THAT UPPER PLATE ELEMENT OF BEARINGS AT ABUT. NO. 1 SHALL BE BEVELED AS SHOWN ON THIS SHEET. TABULATED PLATE THICKNESS "C" SHALL APPLY AT CENTERLINE OF PLATE.
4) STEEL ERECTION: DURING THE ERECTION OF END CROSS-FRAMES AND END DAMS, CARE SHALL BE TAKEN TO INSURE THAT STRINGERS, BEARING PARTS AND BRIDGE SEATS REMAIN IN BEARING CONTACT.
5) HIGH STRENGTH BOLTS SHALL BE 1" DIAMETER A325, UNLESS NOTED OTHEREWISE.
6) FOR END CROSSFRAMES AND END DAM DETAILS, SEE STD. DRWG. NO. SD-1-69.
7) WELD BOTH SIDES OF VERTICAL LEG AND BOTTOM SIDE OF HORIZONTAL LEG OF THE TOP HORIZONTAL ANGLE WITH 1/4" CONTINUOUS FILLET WELD. WELD OTHER ANGLES AS NOTED ON SHEET 15/20

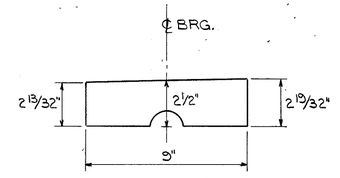


FRAMING PLAN

NOTE: FOR MOMENT PLATE AND BOLTED SPLICE DETAILS, SEE STD. DWG. SD-1-69. ALL SPLICE PLATE MATERIAL SHALL BE CVN. SEE NOTE 2 THIS SHEET.



BEAM ELEVATION



UPPER PLATE DETAIL
BRG. R-100

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

12 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

FRAMING PLAN

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+98.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

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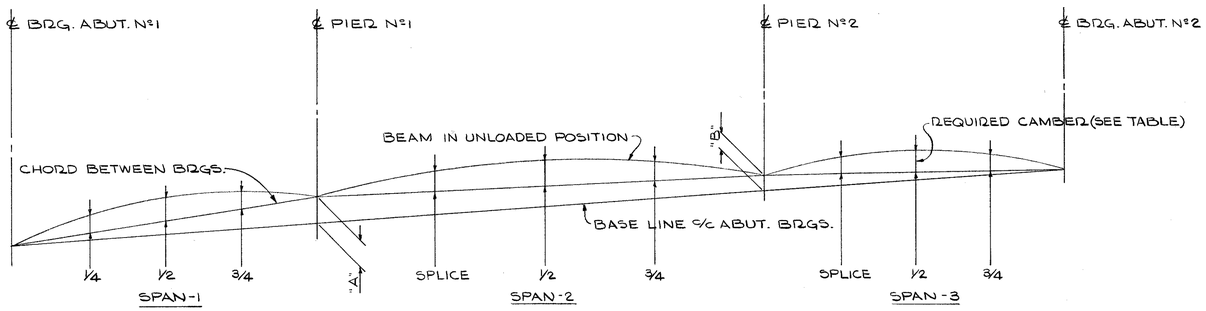


DEFLECTION & CAMBER ~ BEAM Nº1										HEIGHT OF CHORD	
SPAN	Nº1			Nº2			Nº3				
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	0	0	1/16	1/16	0	1/16	1/16		
DEFLECTION DUE TO REMAINING DEAD LOAD	5/16	3/8	1/4	1/8	5/16	3/16	1/8	1/4	3/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	-1/16	-1/16	-1/16	5/16	1/8	0	-1/16	-1/16	-1/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	3/16	1/8	1/8	1/4	3/16	1/8	1/8	1/8		
REQUIRED SHOP CAMBER	7/16	9/16	5/16	9/16	3/4	7/16	3/16	3/8	5/16	1 15/16	1 1/2

DEFLECTION & CAMBER ~ BEAM Nº2										HEIGHT OF CHORD	
SPAN	Nº1			Nº2			Nº3				
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	1/16	1/16	1/16	1/16	0	1/16	1/16		
DEFLECTION DUE TO REMAINING DEAD LOAD	1/4	5/16	1/8	1/16	1/4	1/8	1/16	1/8	1/8		
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	-1/16	-1/16	-1/16	5/16	1/8	0	-1/16	-1/16	-1/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	1/8	1/8	1/8	1/4	3/16	1/8	1/8	1/8		
REQUIRED SHOP CAMBER	3/8	7/16	1/4	9/16	11/16	3/8	1/8	1/4	1/4	1 7/8	1 7/16

DEFLECTION & CAMBER ~ BEAM Nº3										HEIGHT OF CHORD	
SPAN	Nº1			Nº2			Nº3				
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	1/16	0	1/16	1/16	0	1/16	1/16		
DEFLECTION DUE TO REMAINING DEAD LOAD	1/4	5/16	1/8	1/16	1/4	1/8	1/16	1/8	1/8		
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	-1/16	-1/16	-1/16	1/4	1/16	0	-1/16	-1/16	-1/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	1/8	1/8	3/16	1/4	3/16	1/8	1/8	1/8		
REQUIRED SHOP CAMBER	3/8	7/16	1/4	1/2	5/8	3/8	1/8	1/4	1/4	1 3/16	1 3/8

DEFLECTION & CAMBER ~ BEAMS Nº4 THRU 9										HEIGHT OF CHORD	
SPAN	Nº1			Nº2			Nº3				
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	0	0	1/16	1/16	1/16	1/16	0		
DEFLECTION DUE TO REMAINING DEAD LOAD	3/16	1/4	1/8	1/16	1/4	1/8	1/16	3/16	3/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	-1/16	-1/16	-1/16	1/4	1/16	0	-1/16	-1/16	-1/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	1/8	1/8	3/16	1/4	3/16	1/8	1/8	1/8		
REQUIRED SHOP CAMBER	5/16	3/8	3/16	1/2	5/8	3/8	3/16	5/16	1/4	1 3/4	1 3/8

DEFLECTION & CAMBER ~ BEAM Nº10										HEIGHT OF CHORD	
SPAN	Nº1			Nº2			Nº3				
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	1/16	0	1/16	0	0	1/16	0		
DEFLECTION DUE TO REMAINING DEAD LOAD	1/4	5/16	1/8	1/8	5/16	3/16	1/8	1/4	1/4		
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	-1/16	-1/16	-1/16	1/4	1/16	0	-1/16	-1/16	-1/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	1/8	1/8	3/16	1/4	3/16	1/8	1/8	1/8		
REQUIRED SHOP CAMBER	3/8	7/16	1/4	9/16	11/16	3/8	3/16	3/8	5/16	1 11/16	1 5/16

DEFLECTION & CAMBER ~ BEAM Nº11										HEIGHT OF CHORD	
SPAN	Nº1			Nº2			Nº3				
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	0	0	1/16	1/16	0	1/16	1/16		
DEFLECTION DUE TO REMAINING DEAD LOAD	1/4	5/16	3/16	1/8	1/4	1/8	3/16	5/16	1/4		
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	-1/16	-1/16	-1/8	-1/16	-1/8	-1/8	-1/16	-1/16	-1/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	1/8	1/8	1/8	1/4	3/16	1/8	1/8	1/8		
REQUIRED SHOP CAMBER	3/8	7/16	3/16	3/16	7/16	1/4	1/4	7/16	3/8	5/8	11/16

DEFLECTION & CAMBER ~ BEAMS Nº12 THRU 15										HEIGHT OF CHORD			
SPAN	Nº1			Nº2			Nº3			BM. Nº12,13,14		BM. Nº15	
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	0	0	1/16	1/16	0	1/16	1/16				
DEFLECTION DUE TO REMAINING DEAD LOAD	3/16	3/16	1/8	1/8	1/4	1/8	1/8	1/4	3/16				
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	-1/16	-1/16	-1/16	-1/16	-1/8	-1/8	-1/16	-1/16	-1/16				
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	1/8	1/8	1/8	1/4	3/16	1/8	1/8	1/8				
REQUIRED SHOP CAMBER	5/16	5/16	3/16	3/16	7/16	1/4	3/16	3/8	5/16	5/8	5/8	3/4	11/16

DEFLECTION & CAMBER ~ BEAM Nº16										HEIGHT OF CHORD	
SPAN	Nº1			Nº2			Nº3				
LOCATION OF POINTS	1/4	1/2	3/4	SPLICE	1/2	3/4	SPLICE	1/2	3/4	"A"	"B"
DEFLECTION DUE TO WEIGHT OF STEEL	1/16"	1/16	0	0	1/16	0	0	1/16	0		
DEFLECTION DUE TO REMAINING DEAD LOAD	3/16	1/4	1/16	3/16	7/16	1/4	1/8	5/16	1/4		
ADJUSTMENT REQUIRED FOR CONVEXITY (HORZ.)	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16		
ADJUSTMENT REQUIRED FOR CONVEXITY (VERT.)	1/8	1/8	1/8	3/16	1/4	3/16	1/8	1/8	1/8		
REQUIRED SHOP CAMBER	7/16	1/2	1/4	7/16	13/16	1/2	5/16	9/16	7/16	13/16	11/16

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

13 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

DEFLECTION & CAMBER

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

319
362

COL-30-35.29

1'-4" FOR REINFORCING SEE PARAPET ELEV.

122-SPACES @ 1'-6" = 183'-0" 123-*503, 123-*510

℄ LIGHT PILASTER STA. 998+68.32 FOR DETAILS SEE STD. CONSTRUCTION DWG. HL-4

N

3-*609 TOP
3-*609 BOT.

6-SETS *401-TOP *603-BOT TYPICAL EXCEPT AS OTHERWISE SHOWN. SEE TRANSVERSE SECTIONS FOR SPACING.

*407

① SEE PARAPET DETAIL SHEET 16/20

*407 IN PARAPET CENTER OVER PIER-(TYP.)

4-*403 TOP, 2-*613 BOT.
9-*403 TOP, 7-*613 BOT.
8-*404 TOP, 7-*614 BOT.
8-*405 TOP, 7-*615 BOT.
11-*406 TOP, 8-*616 BOT.

10-SPC'S. @ 7" = 5'-10", SERIES-*623 TOP
8-SPC'S. @ 7" = 4'-8", SERIES-*624 BOT.

12-SPC'S. @ 7", SERIES *601 TOP *601 BOT.

28-SPC'S. @ 7" = 16'-4", 29-*603 TOP 29-*603 BOT.

1'-4" LAP-TOP
2'-0" LAP-BOT. } TYP.

278-SPC'S. @ 7" = 162'-2", SERIES *619 TOP, SERIES *620 BOT.

13-SPC'S. @ 7" = 7'-7" 14-*603 TOP 14-*603 BOT.

10-SPC'S. @ 7" = 5'-10", 11-*618 TOP
8-SPC'S. @ 7" = 4'-8", 9-*618 BOT.

14-SPC'S. @ 7" = 8'-2", SERIES *602 TOP *602 BOT.

278-SPC'S. @ 7" = 162'-2", 278-*618 TOP & 279-*618 BOT.

11-SPC'S. @ 7" = 6'-5", SERIES-*625 TOP
10-SPC'S. @ 7" = 5'-10", SERIES-*626 BOT.

2'-0" LAP (TYP.) TOP & BOT.

22-SPC'S. @ 7" = 12'-10", 23-*617 TOP
19-SPC'S. @ 7" = 11'-1", 20-*603 BOT.

13-SPC'S. @ 7" = 7'-7", SERIES *627 TOP *627 BOT.

278-SPC'S. @ 7" = 162'-2", 279-*617 TOP, 279-*603 BOT.

8-SPC'S. @ 7" = 4'-8", SERIES, *621 TOP
11-SPC'S. @ 7" = 6'-5", SERIES, *622 BOT.

35-SPC'S @ 1'-6"(-) = 51'-11" 36-*503, B.S.
36-*519 B.S.

℄ LIGHT PILASTER STA. 997+67.48 FOR DETAIL SEE SHT. 17/20

② SEE PARAPET DETAIL SHEET 16/20

3-*609 TOP
3-609 BOT.

*407

997

6 SPC'S @ 7¼" = 3'-7½" SERIES *611 TOP
4 SPC'S @ 7¼" = 2'-5" SERIES *608 BOT.

3-*609 TOP
3-*609 BOT.

9 SPC'S @ 7¼" = 5'-5¼" 10-*605 TOP
11 SPC'S @ 7¼" = 6'-7¾" 12-*607 BOT.

③ SEE PARAPET DETAIL SHEET 16/20

998

*407

4-*406 TOP, 2-*616 BOTTOM
4-*402 TOP, 2-*604 BOTTOM.

83-SPC'S @ 1'-6"(-) = 123'-9" 84-*503 B.S., 84-*519 B.S.

9-SPC'S. @ 7¼" = 5'-5¼" SERIES-*612 TOP
11-SPC'S. @ 7¼" = 6'-7¾" SERIES-*610 BOT.

264-SPC'S. @ 7¼" = 159'-0" 265-*605 TOP, 265-*606 BOT.

9 SPC'S @ 7¼" = 5'-5¼" SERIES *612 TOP
11 SPC'S @ 7¼" = 6'-7¾" SERIES *610 BOT.

3-*609 TOP
3-609 BOT.

*407

*407

④ SEE PARAPET DETAIL SHEET 16/20

10-*402 TOP, 7-604 BOT.
5-*402 TOP, 2-604 BOT.

264 SPC'S. @ 7¼" = 159'-0" 265-*605 TOP, 265-*607 BOT.

9-SPC'S. @ 7¼" = 5'-5¼" 10-*605 TOP
11-SPC'S. @ 7¼" = 6'-7¾" 12-*607 BOT.

6-SPC'S. @ 7¼" = 3'-7½", SERIES *611 TOP
4-SPC'S. @ 7¼" = 2'-5", SERIES *608 BOT.

122 SPC'S. @ 1'-6" = 183'-0" 123-*503, 123-*510

SLAB REINFORCING PLAN

℄ PIER

3'-0" 12'-9" 12'-9" 3'-0"
12'-9" 12'-9"

101-*407 PIER 1 & 2 SEE SHT. 15/20 FOR SPACING

52-*407 PIER 1 & 2 SEE SHT. 15/20 FOR SPACING

3'-0" 12'-9" 12'-9" 3'-0"
12'-9" 12'-9"

STAGGERED BAR DIAGRAM
TYPICAL EACH PIER

NOTES

1) PREFIX "S" WILL BE ADDED TO ALL REBARS SHOWN FOR DECK SLAB. SEE REINFORCING SCHEDULE.
2) REINFORCING STEEL SHOWN THUS (*) TO BE EPOXY COATED.
3) FOR TRANSVERSE SECTIONS, SEE SHEET 15/20

REV. 4-12-90

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

14/20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

SLAB PLAN

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

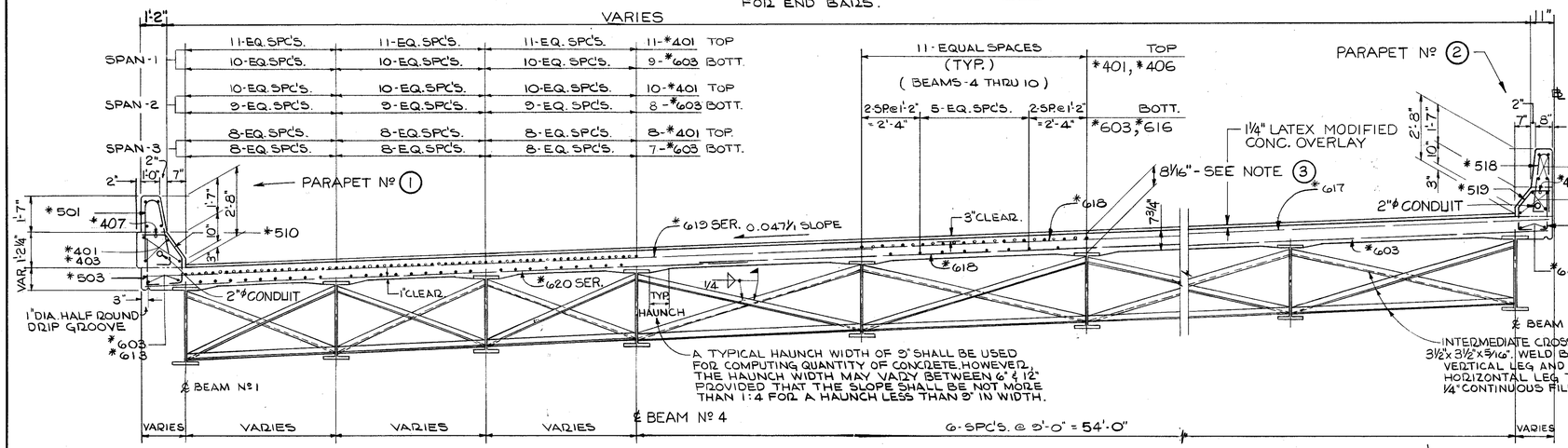
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

320
362

COL-30-35.29

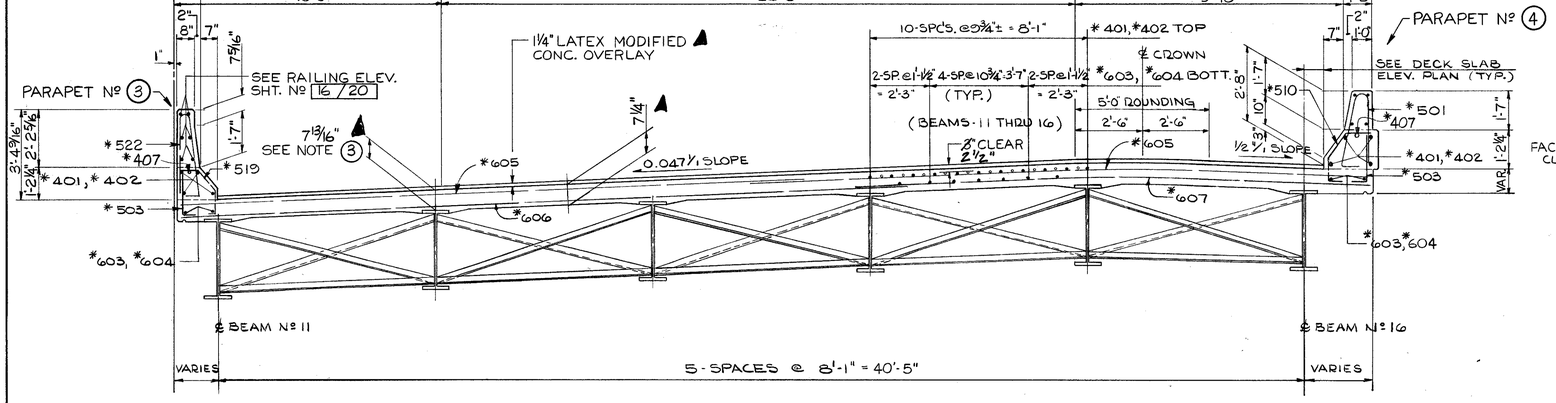
SEE SLAB REINFORCING SHEET 14/20 FOR END BARS.



TRANSVERSE SECTION, LEFT SIDE ℄

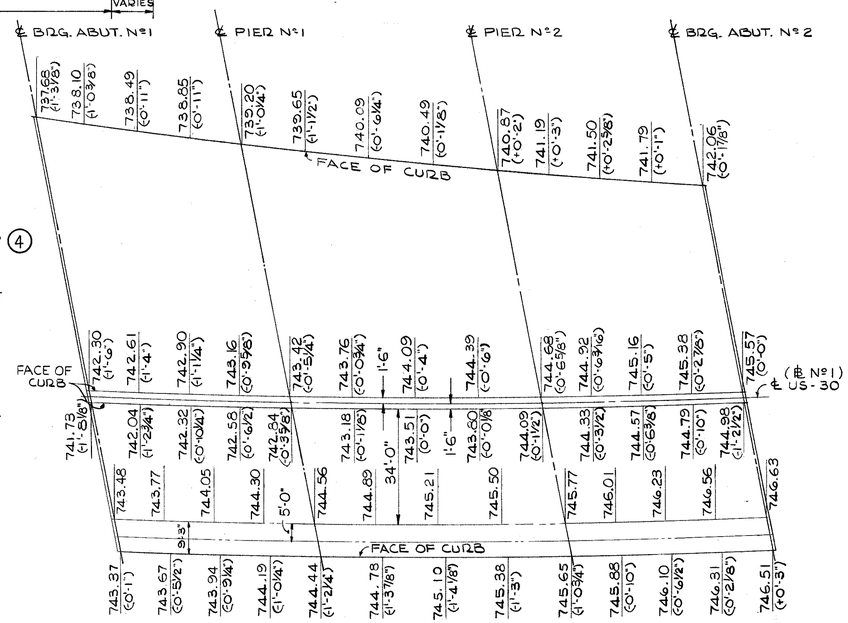
NOTES

1) PREFIX "S" WILL BE ADDED TO ALL REBARS SHOWN FOR DECK SLAB. SEE REINFORCING SCHEDULE.
2) REINFORCING STEEL SHOWN THUS (*) TO BE EPOXY COATED.
3) DECK SLAB DEPTH: THIS IS THE DESIGN DIMENSION. THE QUANTITY OF CLASS "S" DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.



TRANSVERSE SECTION, RIGHT SIDE ℄

These plans were developed using an LMC overlay on top of a new Class S concrete deck. However, the LMC overlay shall not be used as part of this project. The 1¼" shall be replaced by Class S concrete making a 9" thick monolithic Class S concrete deck. It will be the Contractor's responsibility to adjust all screed elevations and any other elevations or dimensions affected by the change.



DECK SLAB ELEVATIONS

NOTES: THE ELEVATIONS SHOWN, TOP OF CLASS S CONCRETE, ARE THOSE WHICH ARE REQUIRED BEFORE THE CONCRETE DECK IS PLACED. PROPER ALLOWANCE HAS BEEN MADE FOR THE DEAD LOAD DEFLECTIONS CAUSED BY THE WEIGHT OF THE CONCRETE.

THE DIMENSIONS SHOWN IN PARENTHESES ARE DISTANCES FROM FACE OF CURB TO EXTERIOR BEAM AT QUARTER POINTS.

THE DIMENSION IS SHOWN(+) IF THE BEAM IS BEYOND THE FACE OF CURB OR SHOWN(-) IF THE BEAM IS INSIDE THE FACE OF CURB.

REV. 4-12-90

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

15/20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

TRANSVERSE SECTION

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

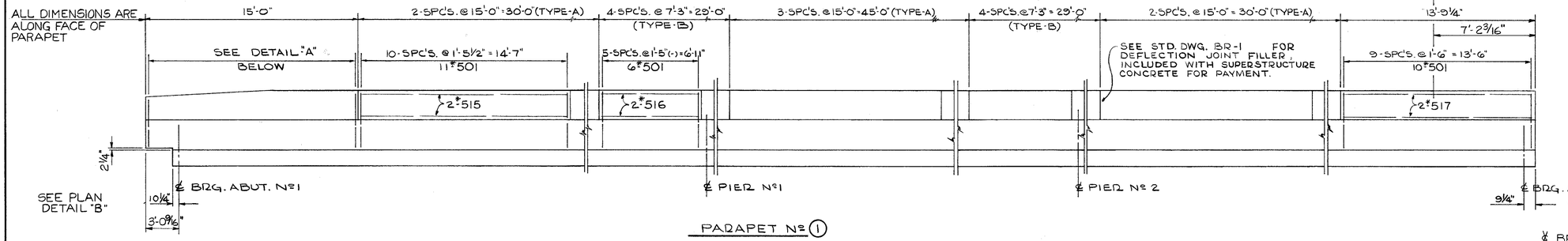
STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	P.L.W.		RAH	WKD	7-7-76	

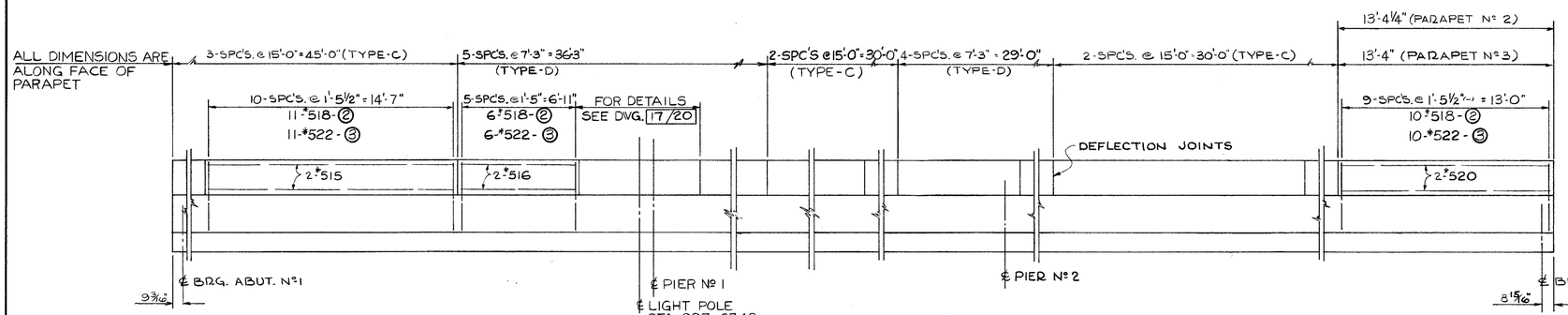
FHWA REGION	STATE	PROJECT	
5	OHIO		

321
362

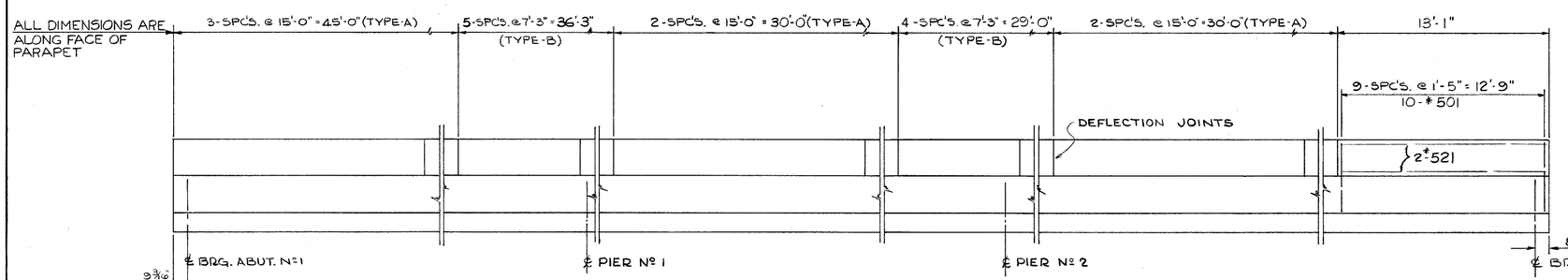
COL-30-35.29



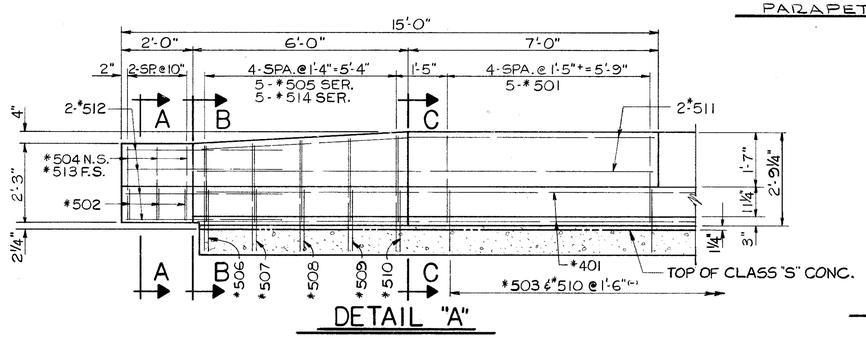
PARAPET Nº (1)



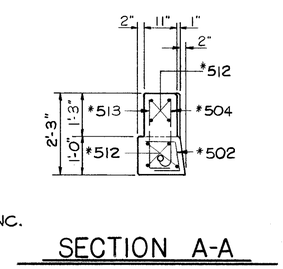
PARAPET Nº (2)·(3)



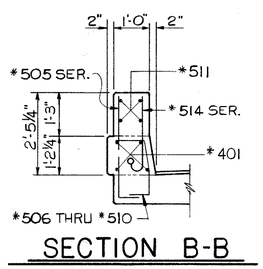
PARAPET Nº (4)



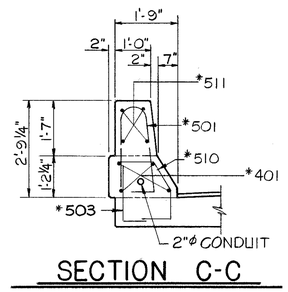
DETAIL "A"



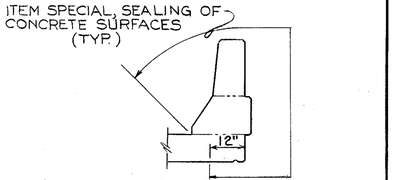
SECTION A-A



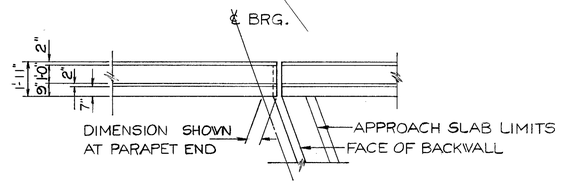
SECTION B-B



SECTION C-C

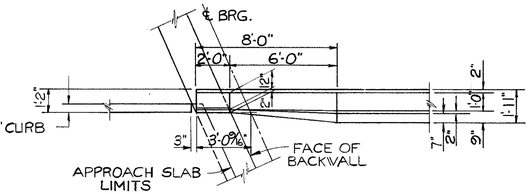


SEALING OF CONC. SURFACE

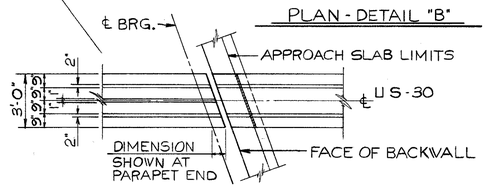


PLAN AT PARAPET END

PARAPET Nº 1 SHOWN, PARAPET Nº 4 SIMILAR



PLAN - DETAIL "B"



PLAN - MEDIAN BARRIER

PARAPET RAILING

1) PREFIX "S" WILL BE ADDED TO ALL REBARS SHOWN FOR PARAPET. SEE REINFORCING SCHEDULE.
2) ALL REINFORCING STEEL SHOWN THUS (*) TO BE EPOXY-COATED.
3) FOR ADDITIONAL DETAILS AND NOTES, SEE STD. DRAWING NO. BR-1.
4) QUANTITIES OF CONCRETE AND REINFORCING STEEL FOR PARAPET ARE INCLUDED WITH THEIR APPROPRIATE ITEM UNDER SUPERSTRUCTURE FOR PAYMENT.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

16 / 20

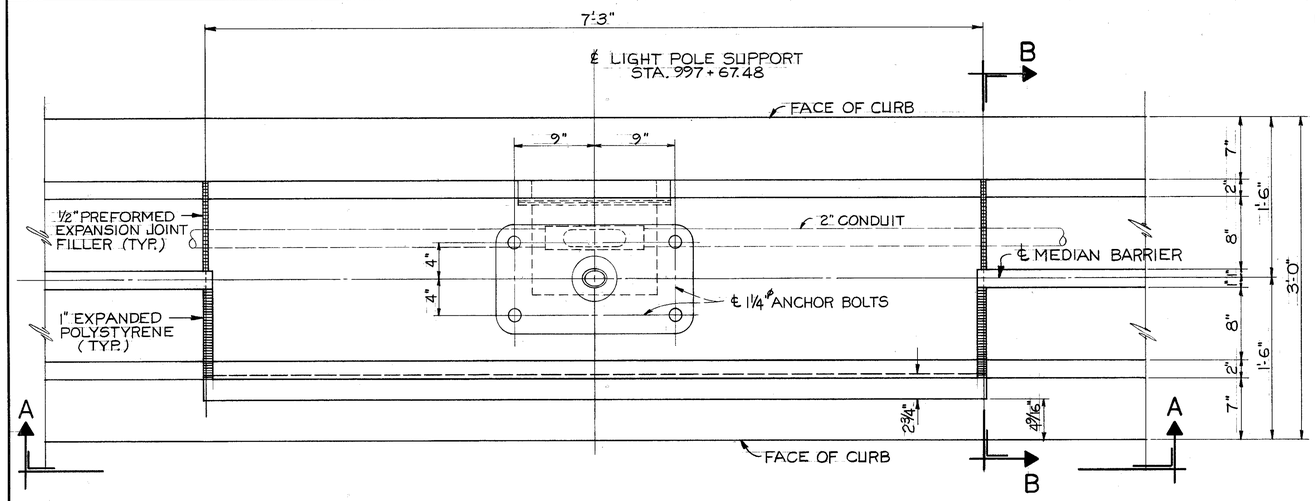
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

PARAPET ELEVATIONS

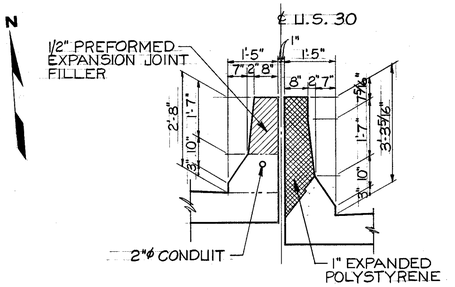
BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

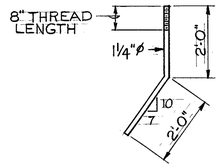
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WKD	7-7-76	



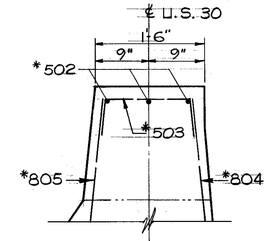
PLAN - LIGHT POLE SUPPORT



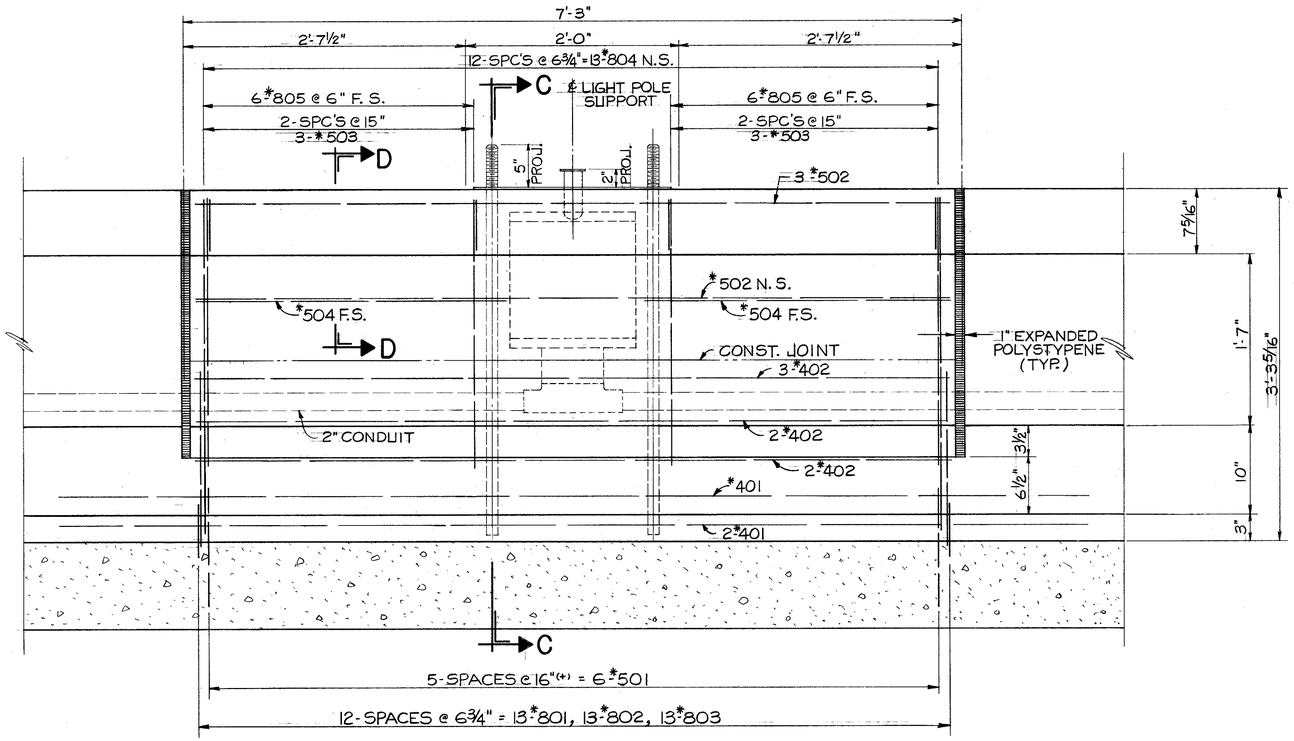
SECTION B-B



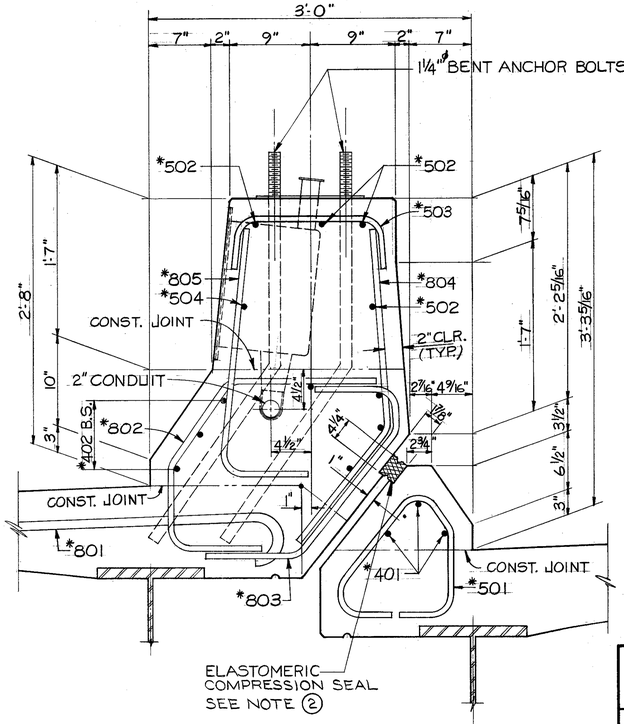
BENT ANCHOR BOLT DETAIL



SECTION D-D



SECTION A-A



SECTION C-C

NOTES

1) PREFIX "L" WILL BE ADDED TO ALL REBARS SHOWN ON THIS SHEET. SEE REINFORCING SCHEDULE.
2) ELASTOMERIC COMPRESSION SEAL SHALL BE EITHER WATSON BOWMAN MODEL NO. WD300 OR ACME HIGHWAY PRODUCTS MODEL NO. J300 OR APPROVED EQUAL. THE SEAL ELEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
3) LONGITUDINAL REBARS SHALL BE FIELD CUT AS REQUIRED.
4) PROVIDE REVERSE BENDS IN CONDUIT WITHIN A DISTANCE OF 10'-0" FROM EACH END OF DECK TO CHANGE ITS LOCATION IN THE DECK MEDIAN TO RUN IT INTO THE ABUTMENT MEDIAN.
5) FIELD BENDING OF CONDUIT SHALL NOT BE PERMITTED. ALL CONDUITS SHALL BE COMPOSED OF STRAIGHT PIECES, FITTINGS AND 45° BENDS. THREE COPIES OF CONDUIT SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING ANY WORK.
6) FOR ADDITIONAL NOTES, SEE SHEET 16/20.

COL-30-35.29

OHIO | FHWA REGION 5 | 322 | 362

17/20

GPI
GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

MISCELLANEOUS DETAIL

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JRS	R.L.W.		KSJ	RaH	7-13-84	

ABUTMENT NO.1

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1A501	96	30' 0''	ST					3,004
1A502	1	11' 6''	105	9' 3''	2' 3''	0' 8''		12
1A503	1	10' 0''	105	7' 9''	2' 3''	0' 8''		10
1A504S	1 SET OF 6	6'11'' TO 9' 7''	ST				0' 6 3/8''	52
1A505	8	12' 9''	ST					106
1A506	6	12' 6''	ST					78
1A507	6	12' 1''	ST					76
1A508	6	11' 8''	ST					73
1A509	19	11' 1''	ST					220
1A510	160	5' 3''	103	3' 5''	1' 0''			876
1A511	9	33' 4''	ST					313
1A512S	1 SET OF 5	9'10'' TO 11' 0''	ST				0' 3 1/2''	54
1A513	10	10' 0''	102	9' 3''	0'10''			104
1A514	5	6' 3''	ST					33
1A515	5	3' 5''	102	2' 8''	0'10''			18
1A516	10	3' 8''	121	1' 8''	0' 5 1/2''	0' 2''		38
1A517	4	4' 5''	121	1' 8''	1' 2 1/2''	0' 4 1/2''		18
1A518	9	31'10''	ST					299
1A519	2	14'10''	ST					31
1A520	1	16' 4''	ST					17
1A521	7	4'10''	102	3' 3''	1' 8''			35
1A522	8	11' 9''	107	2' 7''	3' 0''			98
1A523	5	12'10''	ST					120
1A524	8	13' 9''	ST					115
1A525	9	16' 1''	ST					151
1A526	9	30' 9''	ST					289
1A535	6	14' 0''	ST					88
1A536	5	4' 7''	102	3' 4''	1' 4''			24
1A537	3	7' 5''	ST					23
1A538	5	12' 4''	102	11' 1''	1' 4''			64
1A539	15	11' 6''	102	10' 3''	1' 4''			180
1A540	5	5' 1''	102	3'10''	1' 4''			27
1A541	3	6' 0''	ST					19
1A542	5	7' 3''	102	6' 0''	1' 4''			38
1A543	54	6'10''	103	5' 4''	0'10''			385
1A544	5	11'11''	102	11' 2''	0'10''			62
1A545	6	11' 5''	102	10' 8''	0'10''			71
1A546	7	10'11''	102	10' 2''	0'10''			80
1A547	6	10' 6''	102	9' 9''	0'10''			66
1A548	7	10' 0''	102	9' 3''	0'10''			73
1A549	7	9' 6''	102	8' 9''	0'10''			69
1A550	7	8'11''	102	8' 2''	0'10''			65
1A551	7	8' 5''	102	7' 8''	0'10''			61
1A552S	2 SETS OF 4	7' 3'' TO 8' 9''	ST				0' 6''	67
1A553	2	8' 6''	102	7' 9''	0'10''			18
1A554	5	11' 6''	ST					60
1A555	2	6' 2''	ST					13
1A556	2	9' 2''	ST					19
1A557	2	9' 2''	ST					19
1A558	2	10' 0''	105	3'10''	6' 2''	2' 0''		21
1A559	12	12' 5''	ST					155
1A560	5	16' 9''	ST					157
1A561	4	9' 0''	ST					38
1A569	5	7' 8''	103	6' 2''	0'10''			40
1A570	2	7'10''	ST					16
1A571S	1 SET OF 6	8' 4'' TO 11' 0''	ST				0' 6 3/8''	60
1A572	1	15' 9''	ST					16
1A601	5	6'10''	105	3' 4''	3' 6''	2' 5''		51
1A602	6	6' 7''	105	3' 1''	3' 6''	2' 5''		59
1A603	6	6' 2''	105	2' 8''	3' 6''	2' 5''		56
1A604	6	5' 8''	105	2' 2''	3' 6''	2' 5''		51
1A605	19	5' 2''	105	1' 8''	3' 6''	2' 5''		147
1A606	141	9'10''	103	1' 5''	4' 4''			2,083
1A607	141	6' 2''	103	1' 5''	2' 6''			1,306
1A608	46	8' 0''	103	0'11''	3' 8''			593
1A609S	1 SET OF 17	7' 1'' TO 8' 5''	103	3' 3'' TO 3'11''	0'11'' TO 0'11''		0' 0 1/2''	198
1A610	9	11' 3''	103	1' 2''	5' 2''			152
1A611	1	17' 5''	ST					26
1A612	3	6' 1''	102	5' 2''	1' 0''			27
1A613	2	12' 9''	ST					38
1A614	9	4'10''	ST					65
1A615	2	12'11''	ST					39
1A616S	1 SET OF 9	17' 5'' TO 17' 9''	ST				0' 0 1/2''	238
1A622S	1 SET OF 9	18' 3'' TO 18' 6''	ST				0' 0 3/8''	248
1A623	6	18' 5''	104	5' 4''	10' 9''	2' 7''		166
1A624	7	17'11''	104	5' 4''	10' 3''	2' 7''		188
1A625	6	17' 7''	104	5' 4''	9'11''	2' 7''		158
1A626	7	17' 0''	104	5' 4''	9' 4''	2' 7''		179
1A627	7	16' 6''	104	5' 4''	8'10''	2' 7''		173
1A628	7	15'11''	104	5' 4''	8' 3''	2' 7''		167
1A629	9	15' 5''	104	5' 4''	7' 9''	2' 7''		208
1A630	78	7' 2''	103	0'11''	3' 3''			840
1A631	5	18'11''	104	5' 4''	11' 3''	2' 7''		142
1A701	120	11' 2''	100	9' 6''				2,739
1A801	94	5'10''	122	3' 0''				1,464
1A802	6	17'10''	ST					286
1A803	4	26' 4''	ST					281
1A804	3	26' 9''	ST					214
1A805	14	30' 0''	ST					1,121
1A1001	82	15' 9''	102	14' 2''	1'10''			5,557
						TOTAL		27,554

REINFORCING STEEL

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT, IF PRESENT, AND ALPHABETICAL LETTER/LETTERS INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES: 1 A 501
- NO. 5 SIZE BAR
- LOCATION = ABUT. NO. 1

1P 11 01
- NO. 11 SIZE BAR
- LOCATION = PIER NO. 2

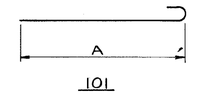
1 SP 401
- NO. 4 SIZE BAR
- LOCATION = PIER NO. 1 & BAR IS A SPIRAL

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

SPIRAL REINFORCING BARS - THE LENGTH SHOWN IN THE STEEL LIST FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE BOTTOM OF THE PIER CAP. 1-1/2 CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT. 4 STEEL ANGLE SPACERS, WEIGHING APPROXIMATELY 0.80 LBS. PER LIN. FT. OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF LBS. OF THESE SPACERS, BASED ON 0.80 LBS. PER LIN. FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS. ALL OTHER DETAILS SHALL BE IN ACCORDANCE WITH CRSI STANDARD PRACTICE.

REINFORCING STEEL SAMPLES

REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.



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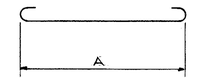

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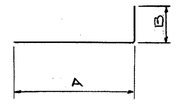

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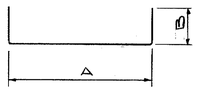

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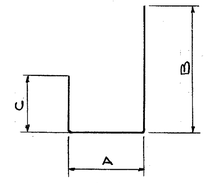

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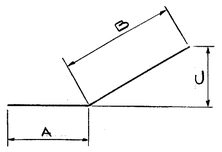

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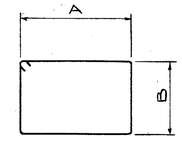

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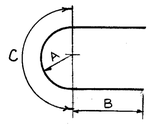

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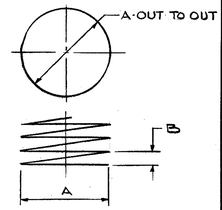

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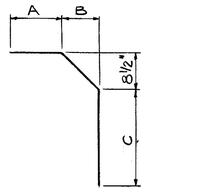

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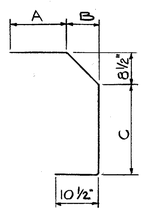

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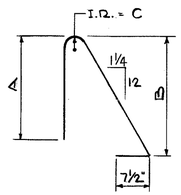

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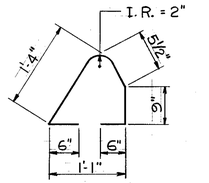

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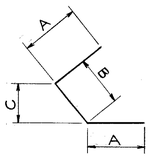

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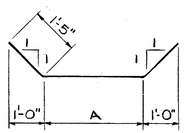

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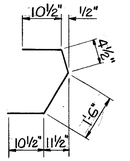

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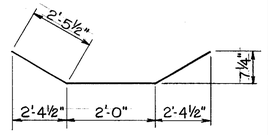

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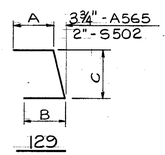

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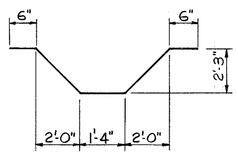

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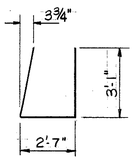

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FHWA REGION	STATE	PROJECT	
5	OHIO		

323
362

COL-30-35.29

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES
18 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO YOUNGSTOWN, OHIO

REINFORCING SCHEDULE

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WED	7-7-76	

FHWA REGION	STATE	PROJECT	
5	OHIO		

324
362

COL-30-35.29

ABUTMENT NO.2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2A501	50	6'10''	103	5' 4''	0'10''			356
2A502	52	5' 7''	102	4'10''	0'10''			309
2A503	147	5' 3''	103	3' 5''	1' 0''			805
2A504	2	8'11''	ST					19
2A505	7	8' 5''	ST					61
2A506	6	7'11''	ST					50
2A507	7	7' 6''	ST					55
2A508	6	7' 1''	ST					44
2A509	7	6' 7''	ST					48
2A510	6	6' 1''	ST					38
2A511	4	5'11''	ST					25
2A512	3	5' 8''	ST					18
2A513	4	5' 5''	ST					23
2A514	5	3' 8''	121	1' 8''	0' 5 1/2''	0' 2''		19
2A515	4	13' 1''	ST					55
2A516	4	9'10''	ST					41
2A517	61	30' 0''	ST					1,909
2A518	10	32' 7''	ST					340
2A519	5	31' 8''	ST					165
2A520S	1 SET OF 5	4'10'' TO 5' 5''	103	2' 5'' TO 3' 0''	1' 4'' TO 1' 4''		0' 1 3/4''	27
2A521	18	11' 5''	102	10' 2''	1' 4''			214
2A522	4	32' 0''	ST					134
2A523	1	31'10''	102	30' 7''	1' 4''			33
2A524	5	9' 3''	102	8' 0''	1' 4''			48
2A525	3	11' 2''	102	10' 2''	1' 1''			35
2A526	2	27' 9''	102	26' 9''	1' 1''			58
2A527	10	6' 9''	102	5' 9''	1' 1''			70
2A528	9	11' 6''	ST					108
2A529	4	4' 5''	121	1' 8''	1' 2 1/2''	0' 4 1/2''		18
2A530	15	11' 9''	107	3' 0''	2' 7''			184
2A532	5	13' 0''	ST					68
2A533	3	7' 9''	ST					40
2A534	2	15' 9''	ST					33
2A535	4	18' 7''	ST					78
2A536	1	10' 8''	ST					11
2A537	1	7'10''	ST					8
2A538	7	8' 1''	102	6' 6''	1' 8''			59
2A539	8	3' 3''	102	1' 8''	1' 8''			27
2A540	6	14' 4''	ST					90
2A541	5	14' 9''	ST					77
2A542	6	15' 2''	ST					95
2A543	9	15' 4''	ST					144
2A544S	1 SET OF 7	18' 9'' TO 21' 2''	ST				0' 4 7/8''	146
2A545S	1 SET OF 7	19' 6'' TO 21'11''	ST				0' 4 7/8''	151
2A546	7	13'11''	ST					102
2A547	31	17' 9''	ST					574
2A548	16	3'11''	105	2' 0''	2' 0''	1'11''		65
2A549S	1 SET OF 3	10' 2'' TO 10' 7''	ST				0' 2 1/2''	32
2A550	15	10' 8''	102	9' 4''	1' 5''			167
2A551	5	5' 4''	103	2' 8''	1' 5''			28
2A552	5	9' 0''	ST					47
2A553	20	14'10''	ST					309
2A554	2	8' 9''	105	2'10''	5'11''	3' 4''		18
2A555	2	18' 4''	ST					38
2A556	2	17'11''	ST					37
2A557	2	16' 9''	ST					35
2A558	6	21' 2''	ST					132
2A571	1	1'11''	ST					10
2A573	1	32'10''	102	31' 7''	1' 4''			34
2A574S	1 SET OF 5	4' 9'' TO 5' 9''	ST				0' 3''	27
2A575	1	29' 0''	ST					30
2A601	2	19' 9''	104	5' 4''	12' 1''	2' 7''		59
2A602	7	19' 3''	104	5' 4''	11' 7''	2' 7''		202
2A603	6	18'10''	104	5' 4''	11' 1 1/2''	2' 7''		170
2A604	7	18' 4''	104	5' 4''	10' 8''	2' 7''		193
2A605	6	17'11''	104	5' 4''	10' 2 1/2''	2' 7''		161
2A606	7	17' 5''	104	5' 4''	9' 9''	2' 7''		183
2A607	6	16'11''	104	5' 4''	9' 3''	2' 7''		152
2A608	4	16' 9''	104	5' 4''	9' 0 1/2''	2' 7''		101
2A609	3	16' 6''	104	5' 4''	8' 9 1/2''	2' 7''		24
2A610	1	16' 3''	104	5' 4''	8' 7''	2' 7''		8
2A611	118	7' 8''	103	1' 5''	3' 3''			1,359
2A612	118	8'10''	103	1' 5''	3'10''			1,566
2A613	118	7' 2''	103	0'11''	3' 3''			1,270
2A614	19	11' 3''	103	1' 2''	5' 2''			321
2A615	4	6' 1''	102	5' 2''	1' 0''			37
2A616	15	7' 8''	ST					173
2A617	2	5' 5''	ST					16
2A618	4	4' 9''	ST					28
2A620	1	4'10''	ST					7
2A622	1	5' 4''	ST					8
2A624S	1 SET OF 9	5' 7'' TO 5'10''	ST				0' 0 1/4''	77
2A626	2	8' 7''	ST					26
2A627	8	4'10''	ST					58
2A628	7	5' 2''	105	1' 8''	3' 6''	2' 5''		54
2A629	6	5' 7''	105	2' 1''	3' 6''	2' 5''		50
2A630	5	6' 0''	105	2' 6''	3' 6''	2' 5''		45
2A631	6	6' 5''	105	2'11''	3' 6''	2' 5''		58
2A632	7	6' 7''	105	3' 1''	3' 6''	2' 5''		69
2A633	2	20' 3''	ST					274
2A634	2	14' 6''	ST					44
2A640	9	21' 2''	ST					286
2A641	4	4' 9''	ST					29
2A642	4	3' 8''	ST					22
2A643	1	5' 2''	ST					8
2A644	1	4' 1''	ST					6

ABUTMENT NO.2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2A645	1	6' 1''	ST					9
2A646	1	5' 0''	ST					8
2A647	1	7' 0''	ST					11
2A648	1	5'11''	ST					9
2A649	1	7'10''	ST					12
2A650	1	6' 9''	ST					10
2A701	88	11' 2''	100	9' 6''				2,009
2A801	14	30' 0''	ST					1,121
2A802S	1 SET OF 3	29' 4'' TO 25' 2''	105	20' 4'' TO 22' 2''	3' 0'' TO 3' 0''		0'11''	194
2A803S	1 SET OF 4	20' 8'' TO 22' 6''	105	17' 8'' TO 19' 6''	3' 0'' TO 3' 0''		0' 7 3/8''	231
2A804	80	5'10''	122	3' 0''				1,246
2A805	6	15'11''	ST					255
2A806	6	17' 6''	ST					280
2A1001	60	10' 0''	102	8' 5''	1'10''			2,582
2A1002	60	14' 2''	ST					3,658
							TOTAL	26,860

PIER NO.1

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1SP401	1	31' 7''	120	2' 8''	0' 4 1/2''			582
1SP402	1	28' 9''	120	2' 8''	0' 4 1/2''			531
1SP403	1	25'11''	120	2' 8''	0' 4 1/2''			481
1SP407	1	24'11''	120	2' 8''	0' 4 1/2''			463
1SP408	1	21'11''	120	2' 8''	0' 4 1/2''			409
1SP409	1	18'11''	120	2' 8''	0' 4 1/2''			355
1SP410	1	16' 1''	120	2' 8''	0' 4 1/2''			305
1SP411	1	15' 1''	120	2' 8''	0' 4 1/2''			287
1P501	120	14' 9''	107	2' 8''	4' 5''			1,846
1P502	4	25' 5''	ST					106
1P503	4	18' 6''	ST					77
1P504	8	30' 0''	ST					250
1P505	4	25' 0''	ST					104
1P601	96	9' 6''	ST					1,370
1P602	80	7' 6''	ST					901
1P701	96	11' 2''	100	9' 6''				2,191
1P702	50	9' 2''	100	7' 6''				937
1P801	30	9' 4''	100	7' 6''				748
1P802	4	10' 2''	119	1' 4''	3' 0''	4' 2 1/4''		109
1P803	12	14' 0''	ST					449
1P804	12	12' 0''	ST					384
1P805	6	10' 0''	ST					160
1P806	2	12' 6''	119	1' 4''	4' 2''	4' 2 1/4''		67
1P901	6	25' 0''	ST					510
1P902	6	22' 6''	ST					459
1P903	6	14' 0''	ST					286
1P904	6	22' 2''	102	17'11''	4' 5''			452
1P905	6	18' 1''	102	13'10''	4' 5''			369
1P906	6	11' 0''	ST					224
1P907	18	25' 6''	ST					1,561
1P908	6	26' 8''	ST					544
1P909	6	18' 4''	102	14' 1''	4' 5''			374
1P910	6	22' 0''	102	17' 9''	4' 5''			449
1P911	18	13' 0''	ST					796
1P912	12	23'10''	ST					972
1P917	6	21' 8''	ST					442
1P919	16	8' 6''	102	7' 1''	1' 7''			462
1P920	16	33' 1''	ST					1,800
1P923	6	26' 9''	ST					546
1P1101	95	11' 3''	102	9' 6''	2' 0''			5,678
1P1102	16	30' 0''	ST					2,550
1P1103	21	19' 5''	ST					2,166
1P1104	16	35' 8''	ST					3,032
1P1108	21	29' 4''	ST					3,273
1P1109	7	26' 4''	ST					979
1P1110	7	22'11''	ST					852
1P1111	7	20' 3''	ST					753
							TOTAL	42,641

PIER NO.2

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2SP404	1	35' 0''	120	2' 8''	0' 4 1/2''			663
2SP405	1	32' 3''	120	2' 8''	0' 4 1/2''			594
2SP406	1	29' 5''	120	2' 8''	0' 4 1/2''			543
2SP412	1	28' 5''	120	2' 8''	0' 4 1/2''			525
2SP413	1	25' 4''	120	2' 8''	0' 4 1/2''			470
2SP414	1	22' 6''	120	2' 8''	0' 4 1/2''			419
2SP415	1	20' 2''	120	2' 8''	0' 4 1/2''			378
2SP416	1	18' 8''	120	2' 8''	0' 4 1/2''			351
2P501	110	14' 9''	107	2' 8''	4' 5''			1,692
2P502	4	25' 5''	ST					106
2P503	4	18' 6''	ST					77
2P504	8	30' 0''	ST					250
2P506	4	19' 0''	ST					79
2P601	96	9' 6''	ST					1,370
2P602	80	7' 6''	ST					901
2P701	96	11' 2''	100	9' 6''				2,191
2P702	50	9' 2''	100	7' 6''				937
2P801	30	9' 4''	100	7' 6''				748
2P802	4	10' 2''	119	1' 4''	3' 0''	4' 2 1/4''		109
2P803	12	14' 0''	ST					449
2P804	12	12' 0''	ST					384
2P805	6	10' 0''	ST					160
2P806	2	12' 6''	119	1' 4''	4' 2''	4' 2 1/4''		67
2P901	6	25' 0''	ST					510
2P902	6	22' 6''	ST					459
2P903	6	14' 0''	ST					286
2P904	6	22' 2''	102	17'11''	4' 5''			452
2P905	6	18' 1''	102	13'10''	4' 5''			369
2P906	6	11' 0''	ST					224
2P911	18	13' 0''	ST					796
2P913	18	24' 0''	ST					1,469
2P914	6	25' 2''	ST					513
2P915	6	17' 7''	102	13' 4''	4' 5''			359
2P916	6	21' 3''	102	17' 0''	4' 5''			433
2P918	6	20' 2''	ST					411
2P919	16	8' 6''	102	7' 1''	1' 7''			462
2P921	16	36' 6''	ST					1,986
2P922	12	22' 4''	ST					911
2P923	6	26' 9''	ST					546
2P1101	95	11' 3''	102	9' 6''	2' 0''			5,678
2P1105	16	33' 6''	ST					2,848
2P1106	21	23' 0''	ST					2,566
2P1107	16	39' 1''	ST					3,322
2P1113	21	32'10''	ST					3,663
2P1114	7	26'10''	ST					1,110
2P1115	7	26' 8''	ST					992
2P1116	7	24' 8''	ST					917
							TOTAL	44,725

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

19 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN
AKRON, OHIO — YOUNGSTOWN, OHIO

REINFORCING SCHEDULE

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.99 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.L.	R.L.W.		RAH	WED	7-7-76	

COL-30-35.29

SLAB - EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
S601S	1 SET OF 13	7' 9'' TO 28' 9''	ST				1' 9''	356
S602S	1 SET OF 15	5' 6'' TO 30' 0''	ST				1' 9''	400
S603	1035	30' 0''	ST					46,637
S604	39	15' 9''	ST					923
S606	265	27' 1''	ST					10,780
S607	289	19' 1''	ST					8,284
S608S	2 SETS OF 5	8' 4'' TO 17' 0''	ST				2' 2''	190
S609	12	5' 0''	ST					90
S610S	2 SETS OF 12	4' 2'' TO 29' 0''	ST				2' 3 1/8''	598
S613	9	20' 4''	ST					275
S614	7	18' 5''	ST					194
S615	7	16' 8''	ST					175
S616	50	15' 0''	ST					1,127
S618	288	29' 0''	ST					12,545
S620S	1 SET OF 279	18' 5'' TO 30' 0''	ST				0' 0 1/2''	10,145
S622S	1 SET OF 12	7' 0'' TO 28' 1''	ST				1'11''	316
S624S	1 SET OF 9	3' 2'' TO 18' 6''	ST				1'11''	146
S626S	1 SET OF 11	4' 5'' TO 25' 6''	ST				2' 1 1/4''	247
S627S	1 SET OF 14	4' 0'' TO 26' 9''	ST				1' 9''	323
							TOTAL	93,751

SUMMARY AND GRAND TOTAL OF BAR WEIGHTS

ABUTMENT NO.1	27,554
ABUTMENT NO.2	26,860
PIER NO.1	42,635
PIER NO.2	44,719
GRAND TOTAL	141,768

ABUTMENT NO.1 EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
1A527	3	3'11''	102	3' 2''	0'10 1/2''			12
1A528	3	2' 8''	101	2' 1''				8
1A529S	1 SET OF 5	2' 8'' TO 3' 0''	101	2' 1'' TO 2' 5''	0' 7'' TO 0' 7''		0' 1''	15
1A530	4	5' 6''	123	2' 2''	2' 5''	0' 3 1/2''		23
1A531	4	2' 8''	102	1'11''	0'10 1/2''			11
1A532	8	4' 4''	ST					36
1A533	8	11' 9''	ST					98
1A534	8	2' 8''	103	1' 2''	0'10''			22
1A562	2	5' 5''	123	2' 2''	2' 5''	0' 2''		11
1A563	4	3' 8''	124	0'10''	0' 6''	2' 1''		15
1A564	2	2' 9''	ST					6
1A565	2	4' 0''	129	0' 6''	0' 7 1/2''	3' 0''		8
1A566	2	4'11''	ST					10
1A567	18	0'11''	ST					17
1A568S	1 SET OF 5	3' 8'' TO 3'10''	102	2' 9'' TO 3' 1''	0'10 1/2'' TO 0'10 1/2''		0' 1''	20
1A617	4	4' 0''	124	0'10''	0' 2''	2' 5''		24
1A618	1	4' 0''	124	0'10''	0' 3''	2' 5''		6
1A619	1	4' 1''	124	0'11''	0' 4''	2' 5''		6
1A620	1	4' 2''	124	0'11''	0' 5''	2' 5''		6
1A621	5	4' 4''	124	1' 0''	0' 6''	2' 5''		32
							TOTAL	386

ABUTMENT NO.2 EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
2A531	24	5' 6''	123	2' 2''	2' 5''	0' 3 1/2''		138
2A559S	1 SET OF 5	2' 8'' TO 3' 0''	101	2' 1'' TO 2' 5''			0' 1''	15
2A560S	1 SET OF 5	3' 6'' TO 3'10''	102	2' 9'' TO 3' 1''	0'10 1/2'' TO 0'10 1/2''		0' 1''	19
2A561	3	2' 8''	101	2' 1''				8
2A562	3	3' 7''	102	2'10''	0'10 1/2''			11
2A563	8	4' 4''	ST					36
2A564	8	19' 2''	ST					160
2A565	9	2' 4''	102	1' 7''	0'10 1/2''			22
2A566	8	2' 8''	103	1' 2''	0'10''			22
2A567	2	5' 3''	123	2' 2''	2' 5''	0' 1 3/8''		11
2A568	4	3' 8''	124	0' 8''	0' 6''	2' 1''		15
2A569	4	2' 9''	ST					11
2A570	18	0'11''	ST					17
2A572	8	18' 7''	ST					155
2A576	2	5'10''	123	2' 9''	3' 0''	0' 1 3/8''		12
2A619	4	5'10''	124	1' 0''	0' 6''	3'11 1/2''		35
2A621	1	5'12''	124	1' 0''	0' 6''	4' 1''		9
2A623	1	6' 6''	124	1' 0''	0' 6''	4' 7''		10
2A625S	1 SET OF 9	6' 7'' TO 6'12''	124	1' 0'' TO 1' 0''	0' 6'' TO 0' 6''	4'10'' TO 5' 0 1/2'***' 0''		92
2A635	10	4' 4''	124	1' 0''	0' 6''	2' 5''		64
2A636	1	4' 2''	124	0'11''	0' 5''	2' 5''		6
2A637	1	4' 1''	124	0'11''	0' 4''	2' 5''		6
2A638	1	4' 0''	124	0'10''	0' 3''	2' 5''		6
2A639	4	4' 0''	124	0'10''	0' 2''	2' 5''		24
							TOTAL	904

SLAB EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
S401	984	30' 0''	ST					19,719
S402	59	11' 9''	ST					463
S403	13	16' 4''	ST					142
S404	8	14' 5''	ST					77
S405	8	12' 8''	ST					68
S406	70	10'11''	ST					510
S407	312	28' 6''	ST					5,940
S501	281	5' 8''	123	2' 3''	2' 6''	0' 3 3/8''		1,661
S502	3	2' 5''	129	0'10''	0' 9''	0'10 1/2''		7
S503	486	2' 4''	102	1' 7''	0'10 1/2''			1,183
S504	3	2' 7''	101	2' 0''				8
S505S	1 SET OF 5	3' 8'' TO 4' 0''	102	2'11'' TO 3' 3''	0'10 1/2'' TO 0'10 1/2''		0' 1''	20
S506	1	3' 2''	126	0'10''	0' 2''	0'10''		3
S507	1	3' 2''	126	0'10''	0' 3''	0'10''		3
S508	1	3' 3''	126	0'11''	0' 4''	0'10''		3
S509	1	3' 4''	126	0'11''	0' 5''	0'10''		3
S510	247	3' 5''	126	1' 0''	0' 6''	0'10''		880
S511	4	12' 8''	ST					53
S512	8	4' 4''	ST					36
S513	3	2' 9''	102	2' 0''	0'10 1/2''			9
S514S	1 SET OF 5	2' 9'' TO 3' 1''	101	2' 2'' TO 2' 6''			0' 1''	15
S515	112	14' 8''	ST					1,713
S516	132	6'11''	ST					952
S517	4	13' 5''	ST					56
S518	135	5' 5''	123	2' 2''	2' 5''	0' 1 3/8''		763
S519	240	3' 0''	126	0' 8''	0' 6''	0' 9''		751
S520	8	13' 0''	ST					108
S521	4	12' 9''	ST					53
S522	135	6' 7''	123	2' 9''	3' 0''	0' 1 3/8''		927
S601S	1 SET OF 13	7' 9'' TO 28' 9''	ST				1' 9''	356
S602S	1 SET OF 15	5' 6'' TO 30' 0''	ST				1' 9''	400
S603	44	30' 0''	ST					1,983
S605	550	23' 3''	ST					19,207
S609	12	5' 0''	ST					90
S611S	2 SETS OF 7	8' 2'' TO 21' 2''	ST				2' 2''	308
S612S	2 SETS OF 10	3' 9'' TO 21' 2''	ST				1'11 1/4''	374
S617	302	25' 3''	ST					11,454
S618	290	29' 0''	ST					12,632
S619S	1 SET OF 279	23' 0'' TO 34' 7''	ST				0' 0 1/2''	12,065
S621S	1 SLT OF 9	7' 0'' TO 22' 4''	ST				1'11''	198
S623S	1 SET OF 11	3'10'' TO 23' 0''	ST				1'11''	222
S625S	1 SET OF 12	6' 0'' TO 27' 1''	ST				1'11''	298
S627S	1 SET OF 14	4' 0'' TO 26' 9''	ST				1' 9''	323
							TOTAL	96,036

SLAB LIGHT PILASTER-EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
L505	4	3' 4''	103	2' 4''	0' 7''			14
L506	4	8' 6''	131					35
L507	6	8' 4''	130					52
L508	4	3' 2''	ST					13
							TOTAL	114

SLAB LIGHT POLE SUPPORT-EPOXY COATED BARS

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	SERIES INCREMENT	WEIGHT POUNDS
L401	3	9' 7''	ST					19
L402	7	6'10''	ST					32
L501	6	3' 4''	125					21
L502	4	6'10''	ST					29
L503	6	2' 8''	103	1' 2''	0'10''			17
L504	2	2' 8''	ST					6
L505	2	2' 0''	103	1' 2''	0' 6''			4
L506	4	1' 4''	103	0' 6''	0' 6''			6
L507	2	1'11''	104	0' 6''	1' 1''	0' 6''		4
L508	2	1' 7''	104	0' 6''	0' 9 1/2''	0' 6''		3
L801	13	7' 5''	101	6' 6''				257
L802	13	3' 9''	126	1' 5''	0' 6''	0' 9''		130
L803	13	3' 6''	127					121
L804	13	3' 5''	105	2' 0''	1' 5''	0'11''		119
L805	12	3' 2''	105	0'10 1/2''	2' 5''	0' 3''		101
L806S	2 SETS OF 5	2'10'' TO 3' 5''	105	1' 5'' TO 1'11 1/2''	1' 5'' TO 1' 5''		0' 1 5/8''	83
							TOTAL	952

SUMMARY AND GRAND TOTAL OF BAR WEIGHTS

ABUTMENT NO.1 EPOXY COATED BARS	386
ABUTMENT NO.2 EPOXY COATED BARS	904
SLAB EPOXY COATED BARS	189,787
SLAB LIGHT PILASTER-EPOXY COATED BARS	114
SLAB LIGHT POLE SUPPORT-EPOXY COATED BARS	952
GRAND TOTAL	192,143

REV. 4-12-90

GPD | 20 / 20

GLAUS, PYLE, SCHOMER, BURNS & DeHAVEN, INC.
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE Nº COL-30-3592
U.S. 30 OVER BROADWAY

STA. 997+09.93 TO STA. 998+96.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KSJ	R.L.W.		JRS	RAH	7-13-84	

STATE JOB №	FED.RD	STATE	PROJECT	
11829	5	OHIO		

COL-30-35.29
COL-39-19.76
R/W PLANS
LIMITED ACCESS

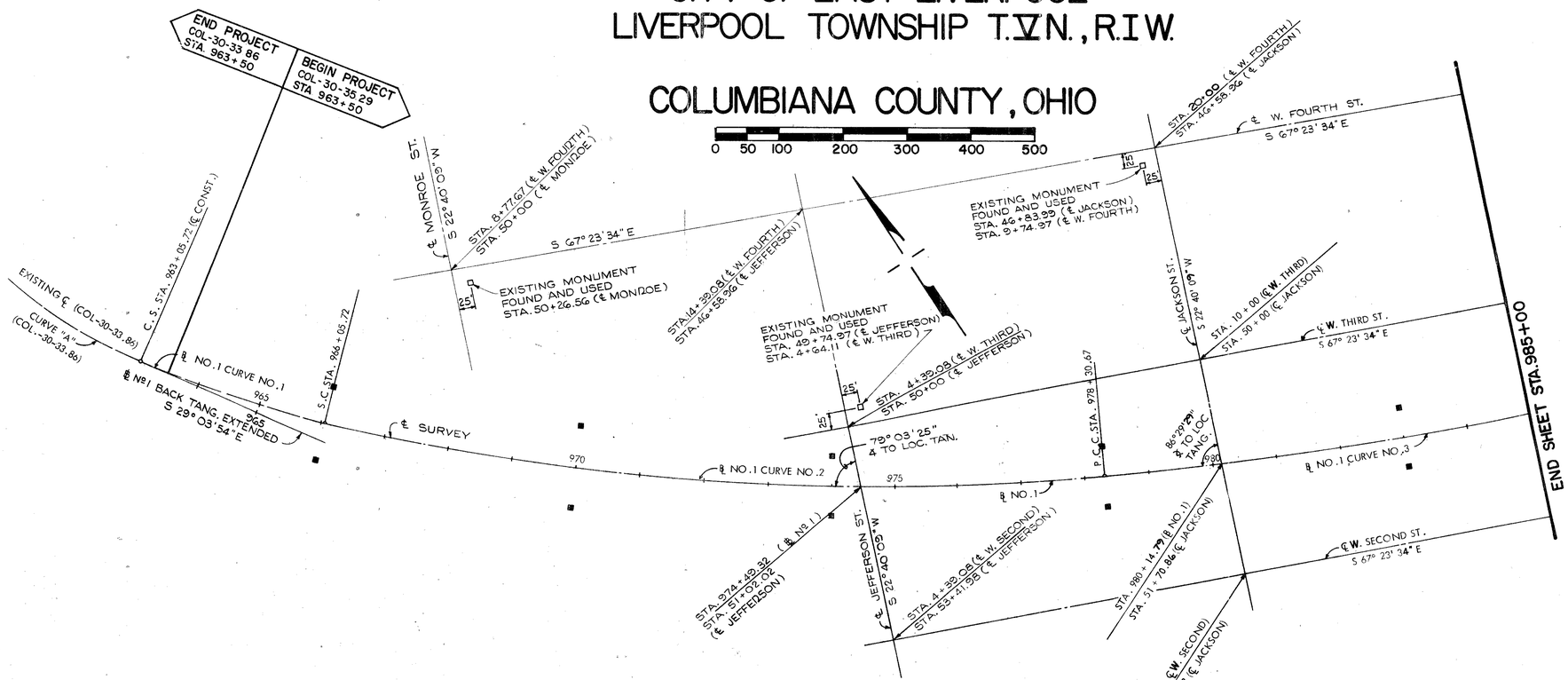
326
362

1
37

CENTERLINE SURVEY PLAT

COL.-30-35.29 , COL-39-20.24
CITY OF EAST LIVERPOOL
LIVERPOOL TOWNSHIP T.V N., R.I W.

COLUMBIANA COUNTY, OHIO



NOTE:
THE ALTERNATE STATIONING OF TANGENT METHOD IS USED AS A SUBSTITUTE FOR TRANSITION SPIRALS. THIS METHOD CONSISTS OF THE EXTENSION AND STATIONING FORWARD OF THE BACK TANGENT AT THE BEGINNING OF THE TRANSITION SPIRAL. THE BACK TANGENT IS EXTENDED TO COVER THE LENGTH OF THE TRANSITION SPIRAL.

THIS IMPROVEMENT HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY FROM STATION 963 + 50 TO STATION 1089 + 00 BY ACTION OF THE DIRECTOR OF TRANSPORTATION AND RECORDED IN VOLUME 55, PAGE 75, OF THE DIRECTOR'S JOURNAL PURSUANT TO LAW.

NAME OF ADDITION	VOLUME	PAGE	AFFECTED BY PROJECT
SIMM'S	16	221	YES
ORIGINAL	3	1060	YES

EXISTING CURVE "A"
P.I.STA. 960 + 05.31

Δ = 56° 00' 00" LT.
D = 8° 30' 00"
R = 674.07'
T = 358.41'
E = 89.36'
L = 658.82'

℄ NO.1 CURVE NO. 1 DATA

Δ = 14° 57' 00" LT
Δ_1 = 2° 11' 49" Δ_2 = 12° 45' 11"
Dc_1 = 1° 28' 00" Dc_2 = 8° 30' 00"
La = 300.00' T_1 = 186.09'
Xa = 297.64' T_2 = 115.46'
Ya = 29.78' Pa = 4.60'
L.C. = 299.12'

℄ NO.1 CURVE NO.2 DATA
P.I.STA. 972 + 23.26

Δ = 17° 57' 57" LT.
Dc = 1° 28' 00"
R = 3,906.53'
T = 617.54'
L = 1,224.95'
CH = 1,219.94'
E = 48.51'

℄ NO.1 CURVE NO. 3 DATA
P.I.STA. 985 + 04.94

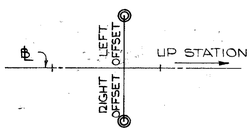
Δ = 13° 25' 26" LT.
Dc = 1° 00' 00"
R = 5,729.58'
T = 674.27'
L = 1,342.38'
CH = 1,339.31'
E = 39.54'

CENTERLINE R/W MONUMENTS TO BE PLACED AT THE DIRECTION OF THE FIELD ENGINEER AT THE FOLLOWING LOCATIONS:

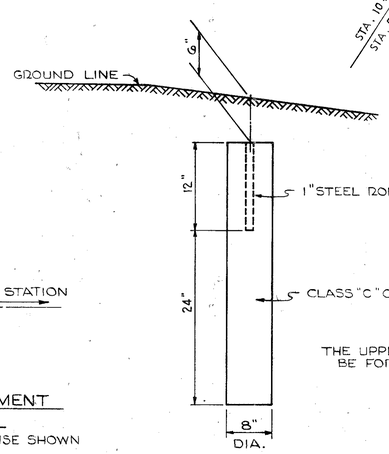
S. C. STA. 966 + 05.72 (58' LT., 59' RT.)
P. O. C. STA. 970 + 00 (67' LT., 63' RT.)
P. O. C. STA. 974 + 00 (47' LT., 47' RT.)
P. C. C. STA. 978 + 30.67 (47' LT., 47' RT.)
P. O. C. STA. 983 + 00 (47' LT., 47' RT.)

MONUMENTS TO BE PLACED AS INDICATED

■ ℄ MONUMENT ASSEMBLIES (SEE THIS SHEET)



TYPICAL MONUMENT LOCATION
UNLESS OTHERWISE SHOWN



THE UPPER 12" SHALL BE FORMED

CENTERLINE REFERENCE MONUMENT
(MODIFIED AS PER PLAN)

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION IN 1971 BY GLAUS, PYLE, SCHOMER, BURNS AND DEHAVEN.

SIGNED Richard W. Swarts
RICHARD W. SWARTS
REGISTERED SURVEYOR NO. 5169

DATE March 1, 1973

STATE OF OHIO
RICHARD W. SWARTS
S-005169
REGISTERED SURVEYOR

APPROVED _____, 19__

_____
DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

RECEIVED MAR 23, 11:20 A.M., 1973
RECORDED 3/17, 1973
BOOK 10 PAGE 84
Ferguson H. Kind Sr.
COUNTY RECORDER

72526
FEE $ 48.75
VOL 10 PAGE 84
RECORDED
MAR 23 11 20 AM '73

3/17/73 RECORDED
FEE $ FERGUSON H. KIND SR.
COLUMBIANA COUNTY

SHEET 1 OF 6

CENTERLINE SURVEY PLAT

STATE JOB Nº	FED.RD	STATE	PROJECT	
11829	5	OHIO		

327/362

COL-30-35.29
COL-39-19.76
R/W PLANS
LIMITED ACCESS

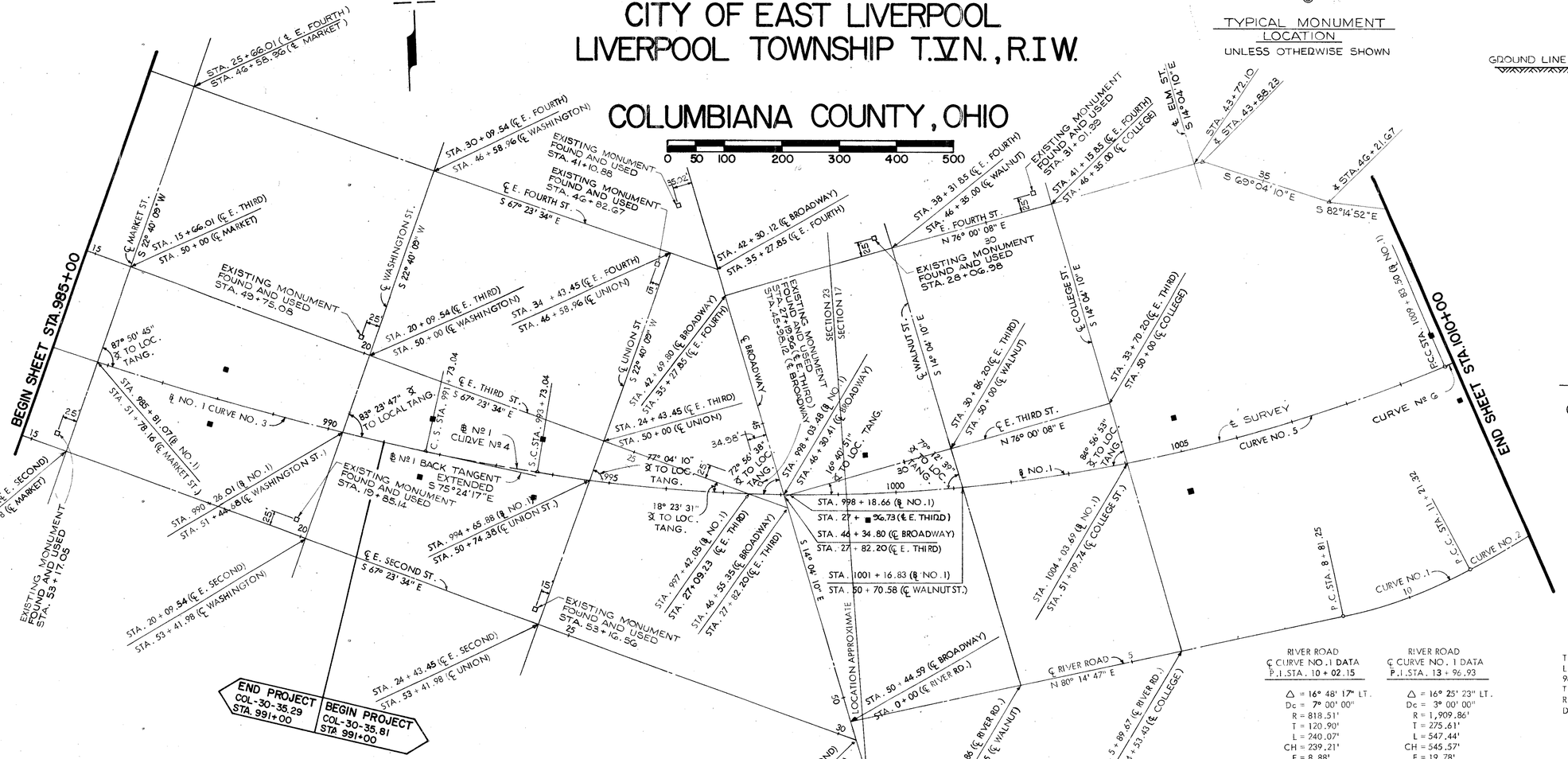
2/37

CENTERLINE SURVEY PLAT

COL-30-35.29 , COL-39-20.24
CITY OF EAST LIVERPOOL
LIVERPOOL TOWNSHIP T.V N., R.I W.

COLUMBIANA COUNTY, OHIO

0 50 100 200 300 400 500


BEGIN SHEET STA. 985+00
END SHEET STA. 1010+00
STA. 25+66.01 (℄ E. FOURTH)
STA. 46+58.96 (℄ MARKET)
STA. 30+09.54 (℄ E. FOURTH)
STA. 46+58.96 (℄ WASHINGTON)
EXISTING MONUMENT FOUND AND USED STA. 41+10.88
EXISTING MONUMENT FOUND AND USED STA. 46+82.67
℄ E. FOURTH ST.
S 67° 23' 34" E
STA. 42+30.12 (℄ BROADWAY)
STA. 35+27.85 (℄ E. FOURTH)
STA. 38+31.85 (℄ E. FOURTH)
STA. 46+35.00 (℄ WALNUT)
EXISTING MONUMENT FOUND AND USED STA. 31+01.38
EXISTING MONUMENT FOUND AND USED STA. 46+35.00 (℄ COLLEGE)
℄ ELM ST.
S 14° 10' E
STA. 43+72.10
STA. 43+88.23
S 69° 04' 10" E
STA. 46+21.67
S 82° 14' 52" E
STA. 15+66.01 (℄ E. THIRD)
STA. 50+00 (℄ MARKET)
S 22° 40' 09" W
EXISTING MONUMENT FOUND AND USED STA. 49+75.08
℄ WASHINGTON ST.
S 22° 40' 09" W
STA. 20+09.54 (℄ E. THIRD)
STA. 50+00 (℄ WASHINGTON)
STA. 34+43.45 (℄ E. FOURTH)
STA. 46+58.96 (℄ UNION)
℄ UNION ST.
S 22° 40' 09" W
STA. 42+69.80 (℄ BROADWAY)
STA. 35+27.85 (℄ E. FOURTH)
EXISTING MONUMENT FOUND AND USED STA. 25+19.96 (℄ E. THIRD) STA. 45+96.12 (℄ BROADWAY)
SECTION 23
SECTION 17
N 76° 00' 08" E
EXISTING MONUMENT FOUND AND USED STA. 28+06.98
℄ WALNUT ST.
S 14° 04' 10" E
STA. 30+86.20 (℄ E. THIRD)
STA. 50+00 (℄ WALNUT)
STA. 33+70.20 (℄ E. THIRD)
STA. 50+00 (℄ COLLEGE)
℄ COLLEGE ST.
S 14° 04' 10" E
STA. 1009+83.30 (℄ NO. 1)
PC STA
CURVE Nº 6
87° 50' 45" ∡ TO LOC. TANG.
℄ NO. 1 CURVE NO. 3
83° 23' 47" ∡ TO LOCAL TANG.
STA. 885+91.07 (℄ NO. 1)
STA. 51+78.16 (℄ MARKET ST.)
℄ E. THIRD ST.
S 67° 23' 34" E
C. S. STA. 991 + 73.04
S. C. STA. 993 + 73.04
℄ Nº 1 CURVE Nº 4
℄ Nº 1 BACK TANGENT EXTENDED S 75° 24' 17" E
EXISTING MONUMENT FOUND AND USED STA. 19+85.14
72° 04' 10" ∡ TO LOC. TANG.
STA. 998+03.68 (℄ NO. 1)
STA. 46+30.41 (℄ BROADWAY)
16° 40' 51" ∡ TO LOC. TANG.
72° 56' 38" ∡ TO LOC. TANG.
84° 56' 53" ∡ TO LOC. TANG.
STA. 998+18.66 (℄ NO. 1)
STA. 27+ ■ 36.73 (℄ E. THIRD)
STA. 46+34.80 (℄ BROADWAY)
STA. 27+82.20 (℄ E. THIRD)
STA. 1001+16.83 (℄ NO. 1)
STA. 50+70.58 (℄ WALNUT ST.)
18° 23' 31" ∡ TO LOC. TANG.
STA. 997+42.05 (℄ NO. 1)
STA. 27+09.23 (℄ E. THIRD)
STA. 46+55.35 (℄ BROADWAY)
STA. 27+82.20 (℄ E. THIRD)
S 14° 04' 10" E
LOCATION APPROXIMATE
STA. 1004+03.69 (℄ NO. 1)
STA. 51+09.74 (℄ COLLEGE ST.)
STA. 50+44.59 (℄ BROADWAY)
STA. 0+00 (℄ RIVER RD.)
℄ RIVER ROAD
N 80° 14' 47" E
STA. 3+04.86 (℄ RIVER RD.)
STA. 54+32.35 (℄ WALNUT)
STA. 5+89.67 (℄ RIVER RD.)
STA. 54+53.43 (℄ COLLEGE)
℄ SURVEY
CURVE NO. 5
CURVE NO. 1
CURVE NO. 2
P.C. STA. 8+81.25
P.C.C. STA. 12+11.32
STA. 15+66.01 (℄ E. SECOND)
STA. 53+41.98 (℄ MARKET)
STA. 990+26.01 (℄ NO. 1)
STA. 51+44.86 (℄ WASHINGTON ST.)
EXISTING MONUMENT FOUND AND USED STA. 53+17.05
STA. 20+09.54 (℄ E. SECOND)
STA. 53+41.98 (℄ WASHINGTON)
STA. 994+65.88 (℄ NO. 1)
STA. 50+74.38 (℄ UNION ST.)
℄ E. SECOND ST.
S 67° 23' 34" E
EXISTING MONUMENT FOUND AND USED STA. 53+16.56
STA. 24+43.45 (℄ E. SECOND)
STA. 53+41.98 (℄ UNION)
STA. 30+37.26 (℄ E. SECOND)
STA. 50+81.75 (℄ BROADWAY)
END PROJECT COL-30-35.29 STA. 991+00
BEGIN PROJECT COL-30-35.81 STA. 991+00
1000
1005
1009
1010
1015
1025
1030
1035
1040
1045
1050
1055
1060
1065
1070
1075
1080
1085
1090
1095
1100
1105
1110
1115
1120
1125
1130
1135
1140
1145
1150
1155
1160
1165
1170
1175
1180
1185
1190
1195
1200
1205
1210
1215
1220

CALC. LK DATE 1-3-84	STATE JOB Nº	FHWA REGION	STATE	PROJECT	
CHKD. EHC DATE 1-10-84	11829 (0)	5	OHIO	U-457	

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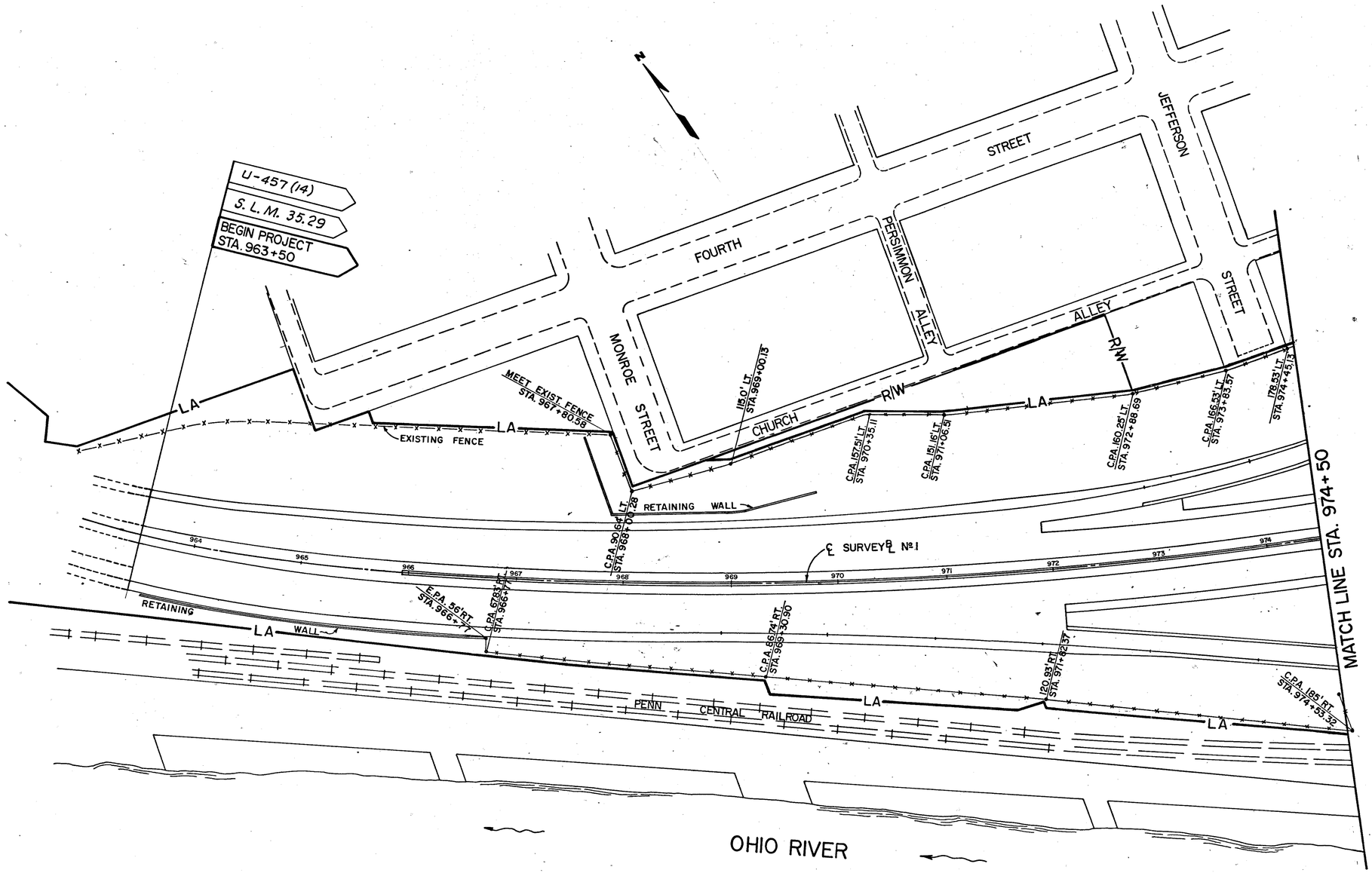
3
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL



ITEM 607 – TYPE CL FENCE					
LOCATION			LENGTH	E.P.A.	C.P.A.
FROM	TO	L/R	L.F.	EACH	EACH
967+80.58	974+45.13	L	681	1	5
966+77	974+53.32	R	820	1	3
TOTAL			1501	2	8

REV.	DATE	DESCRIPTION
		COMPLETION DATE – 2-9-84

SCALE IN FEET
0 20 40 60 80 100

RIGHT OF WAY FENCE
BEGIN TO STA. 974+50

CALC. LK	STATE JOB Nº	FHWA REGION	STATE	PROJECT	
DATE 1-3-84					
CHKD. EHE	11829 (0)	5	OHIO	U-457	
DATE 1-10-84					

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362

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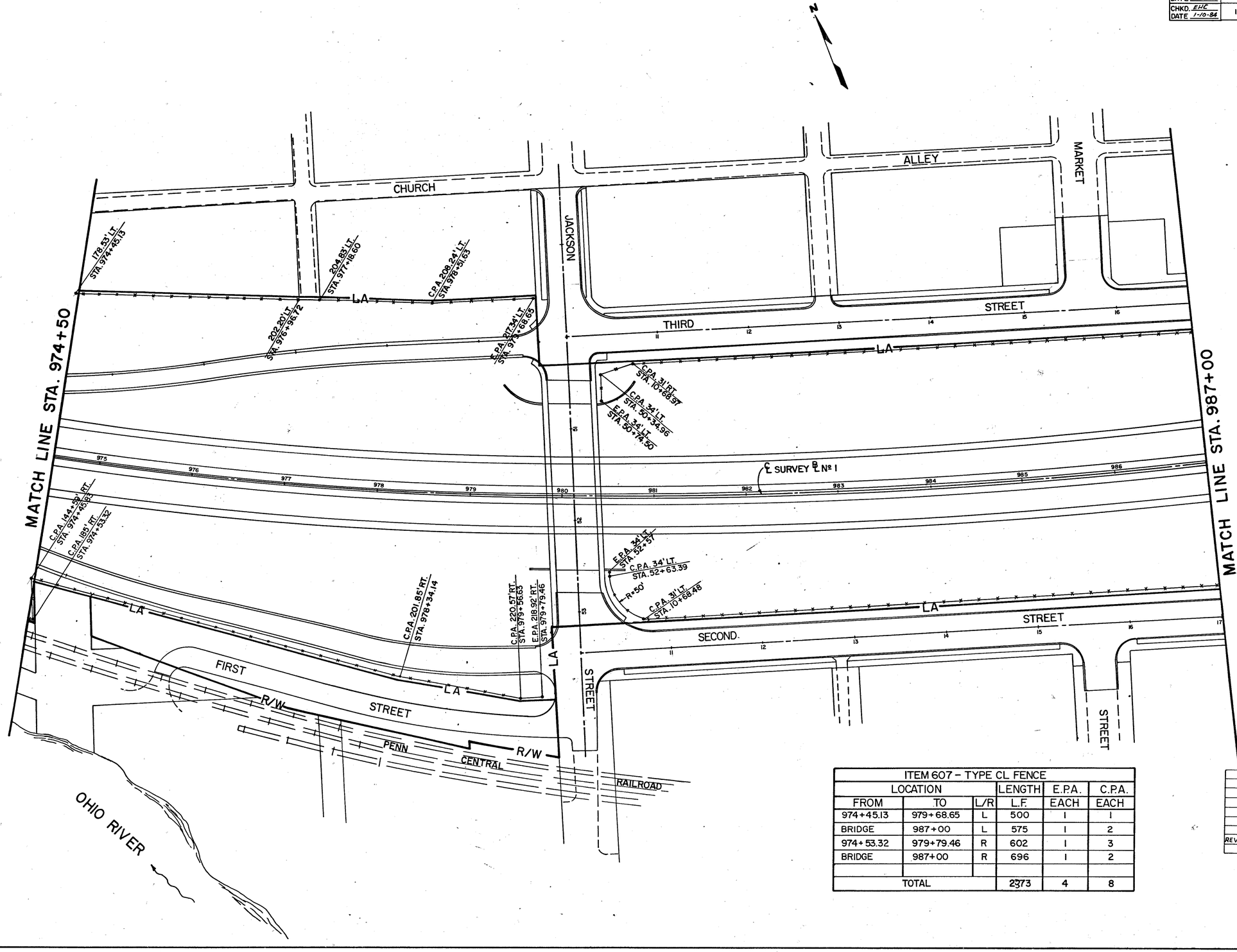
COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL



ITEM 607 – TYPE CL FENCE					
LOCATION			LENGTH	E.P.A.	C.P.A.
FROM	TO	L/R	L.F.	EACH	EACH
974+45.13	979+68.65	L	500	1	1
BRIDGE	987+00	L	575	1	2
974+53.32	979+79.46	R	602	1	3
BRIDGE	987+00	R	696	1	2
TOTAL			2373	4	8

REV	DATE	DESCRIPTION
		COMPLETION DATE – 2-9-84

SCALE IN FEET
0 20 40 60 80 100

RIGHT OF WAY FENCE
STA. 974+50 TO STA. 987+00

CALC. LK DATE 1-3-84	STATE JOB Nº	FHWA REGION	STATE	PROJECT	
CHKD. EHC DATE 1-10-84	11829 (0)	5	OHIO	U-457	

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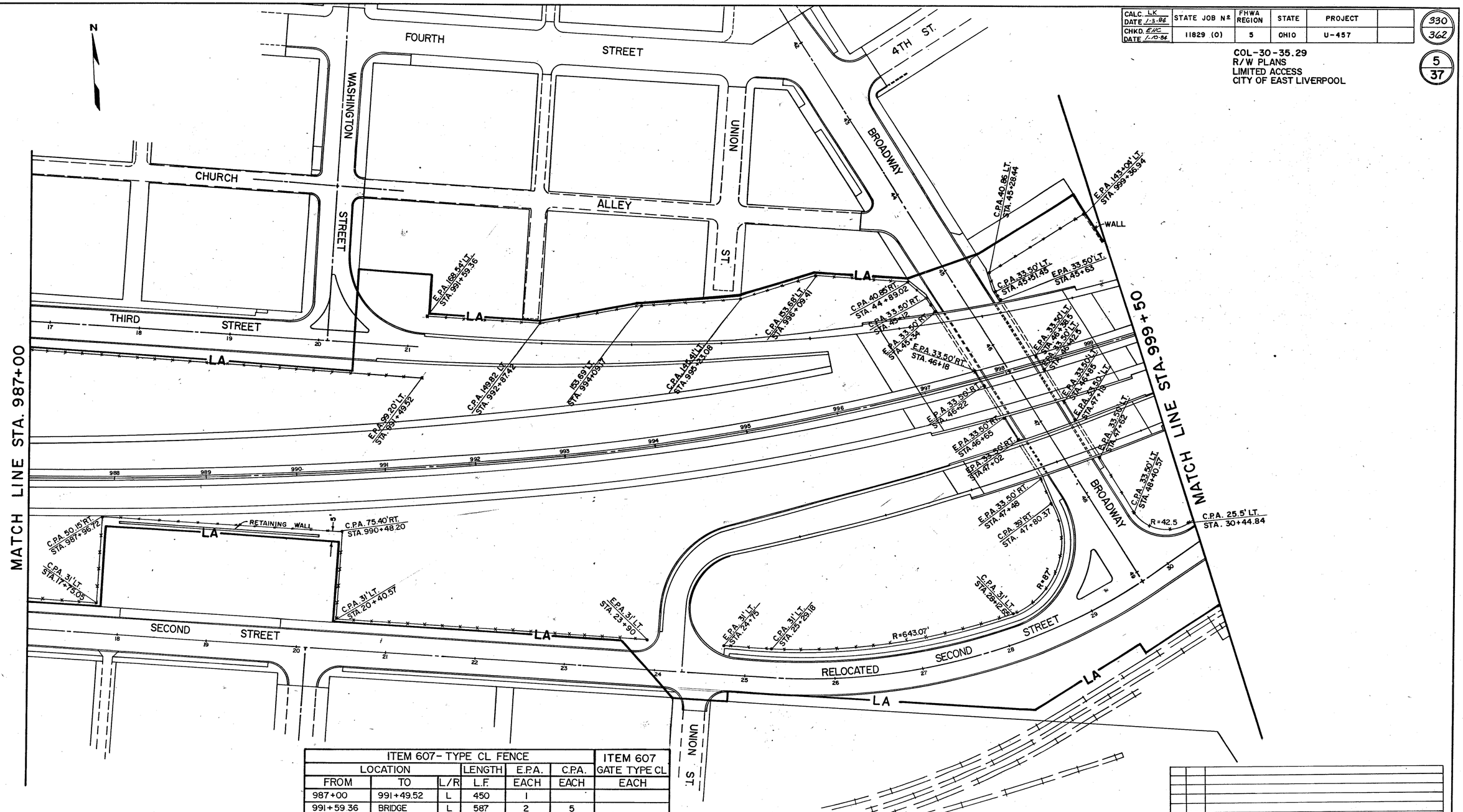
COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL



ITEM 607- TYPE CL FENCE						ITEM 607
LOCATION			LENGTH	E.P.A.	C.P.A.	GATE TYPE CL
FROM	TO	L/R	L.F.	EACH	EACH	EACH
987+00	991+49.52	L	450	1		
991+59.36	BRIDGE	L	587	2	5	
BRIDGE	WALL	L	160	2	2	
987+00	23+90 (2nd)	R	879	1	4	
24+75 (2nd)	BRIDGE	R	491	2	3	
BRIDGE	30+44.84 (2nd)	R	147	1	2	
46+18 (B'WAY)	46+22 (B'WAY)	R	4	2		
46+65 (B'WAY)	47+02 (B'WAY)	R	37	2		
46+38.5 (B'WAY)	46+42.5 (B'WAY)	L	4	2		
46+85 (B'WAY)	47+18 (B'WAY)	L	33	2		
TOTAL			2792	17	16	

REV.	DATE	DESCRIPTION
D-11	1-7-85	Deleted R/W Fence Gate Lt. of ℄ Sta. 999+41± and Revised Total Length of R/W Fence.

COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60 80 100

RIGHT OF WAY FENCE
STA. 987+00 TO STA. 999+50

CALC. LK	STATE JOB Nº	FHWA REGION	STATE	PROJECT	
DATE 1-3-84					
CHKD. EHC	11829 (0)	5	OHIO	U-457	
DATE 1-10-84					

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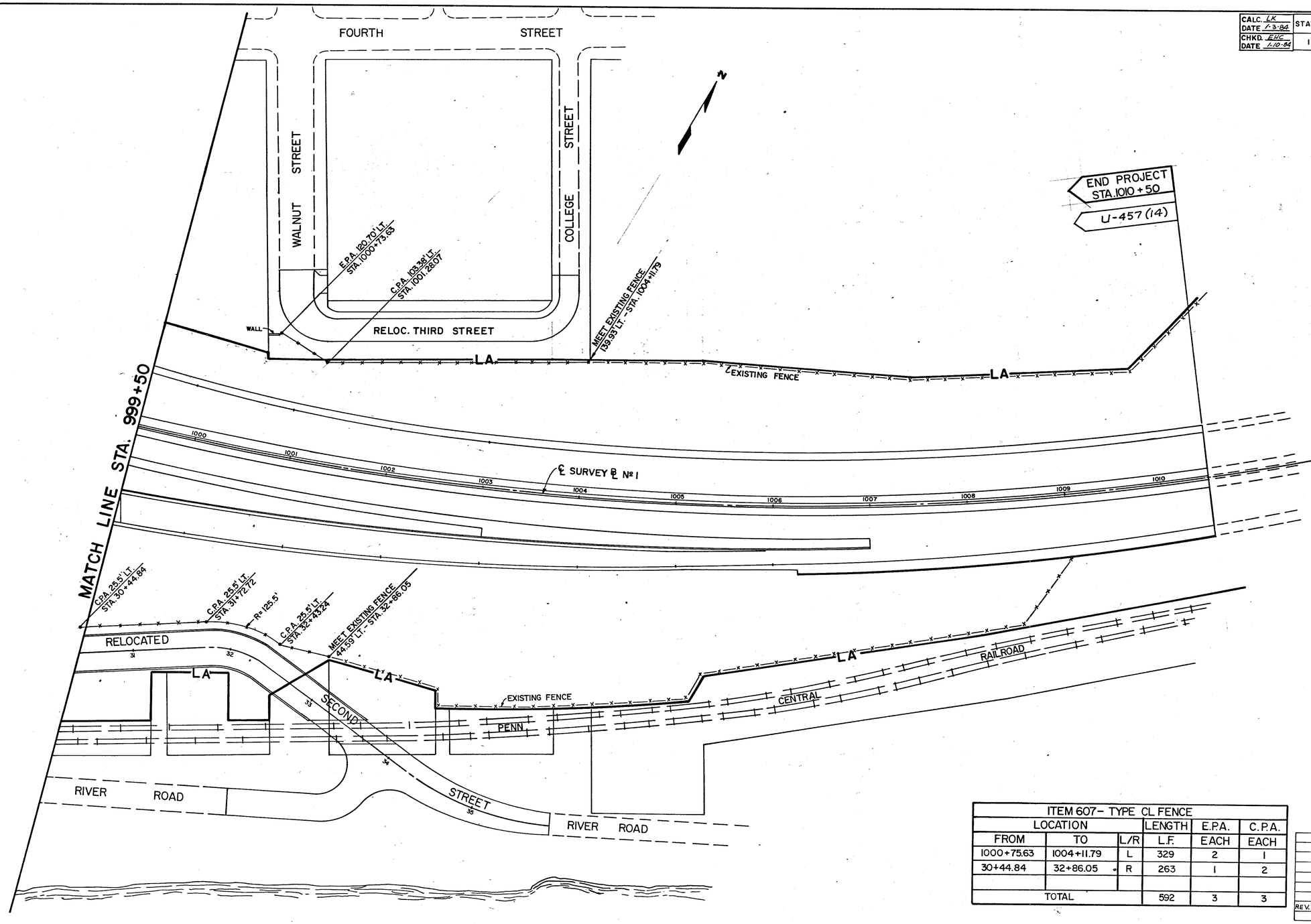
COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL



ITEM 607 - TYPE CL FENCE					
LOCATION			LENGTH	E.P.A.	C.P.A.
FROM	TO	L/R	L.F.	EACH	EACH
1000+75.63	1004+11.79	L	329	2	1
30+44.84	32+86.05	R	263	1	2
TOTAL			592	3	3

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60 80 100

RIGHT OF WAY FENCE
STA.999+50 TO END

30729

AA 8/Pa 73202

PROPERTY MAP
COL-30-35.29
CITY OF EAST LIVERPOOL, - COLUMBIANA COUNTY
SECTION 23 T. 5N. R. 1W.

0 25 50 100 200
SCALE IN FEET

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

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COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

PARCEL Nº	OWNERS
1-WL	JOHN M. GRAHAM + GERALDINE J. GRAHAM A.K.A. GERALDINE GRAHAM
2-WL	SARA L. HAGUE F.K.A. SARA L. YAGER
3-WL	THOMAS V. MCELROY + GLORIA MCELROY
4-WL	ANDREW GIAMBRONI + PHOEBE S. GIAMBRONI
5-WL	DELANO D. DRUMM + PEGGY A. DRUMM
6-WL	MARY E. FRANKLIN
7-WL 7-WD	ARTHUR L. CARMAN + DEBBIE G. CARMAN
8-WL 8-WD	DONALD VULETIC + VIRGINIA VULETIC
9-WL 9-WD	PAUL E. LITTLE + BETTY S. LITTLE
10-WL	DONALD L. + SARAH L. MILLER
11-WL 11-U	DAVE E. MOORE A.K.A. DAVID E. MOORE + PATSY L. MOORE
13-WL	SONDRA L. WEATLEY
14-WL	THE CITY OF EAST LIVERPOOL, OHIO
15-WL	MARY ELIZABETH FRANKLIN + LETTICE O. LEE
16-WL	RODERICK N. MAYS + VIOLET C. MAYS
17-WL	CLARA BARNHART

PARCEL Nº	OWNERS
19-WL	RICHARD MAYS + EVELYN MAYS
20-WL 21-WL	CLEVELAND + PITTSBURGH RAILROAD COMPANY ESTELL DAVENPORT
22-WL	CLEVELAND + PITTSBURGH RAILROAD COMPANY
23-WL 23-E	ROSE WELLS SMITH A.K.A. ROSE WELLS
24-WL	DANIEL H. BRAND
25-WL 25-U 25-T 25-E	*HEIRS OF REBECCA SIMPSON, DECEASED*
26-WL 26-U 26-T 26-E	CURTIS A. PALMER
27-WL 27-U 27-T 27-E	DANIEL H. BRAND
28-WL 28-U 28-T 28-E	GLEN A. MCCONNELL + EDNA R. MCCONNELL
29-WL 29-U	ST. STEPHENS CHURCH, AN OHIO RELIGIOUS CORPORATION
30-WL	THE CITY OF EAST LIVERPOOL
31-WL	ALICE LOW

PARCEL Nº	OWNERS
32-WL	DOROTHY SAULT + EILEEN TOUVELLE, EXECUTRICES OF THE ESTATE OF ELDA R. MAYS, DECEASED
33-WL	JAMES L. RICHARDS
34-WL	WILLIAM S. FOULKS, JR.
35-WL	WILLIAM EDWIN FODEN, III + DELORIS J. FODEN
36-WL	KATHRYN PRESCOTT + ELEANOR M. WATTERS
37-WL	LEONARD BLOOR, JR.
38-WL	STELLA EDITH MILLWARD A.K.A. STELLA MILLWARD
39-WL	RICHARD MAYS + EVELYN MAYS LIFE ESTATE - ANNA ADRIAN
40-WL	RICHARD MAYS + EVELYN MAYS
41-WL	ROBERT BERDINE

PARCEL Nº	OWNERS
42-WL	DOROTHY M. HALPATE
43-WL	EDWIN D. FOULKS
44-WL	THE CITY OF EAST LIVERPOOL, OHIO
45-WL	MARIE H. TWEED
46-WL	HEIRS OF EDWARD LARKINS, DECEASED
47-WL	RICHARD MAYS + EVELYN MAYS
48-WL	THELMA CLICK
64-WL	PAULA J. SPAHR
68-WD	PAUL W. OWEN
69-WL	DALE CARNES - OWNER BRUCE HAWKINGBERRY - LAND CONTRACT
84-WD	MERTLE BAK
86-WD	JAMES *DONALD KENNEDY*

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

PROPERTY MAP

AA B/P# 73202

PROPERTY MAP
COL-30-35.29

CITY OF EAST LIVERPOOL,
COLUMBIANA COUNTY
SECTION 23 T.5N. R. 1W.

SCALE: IN FEET
0 25 50 100 200

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

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COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

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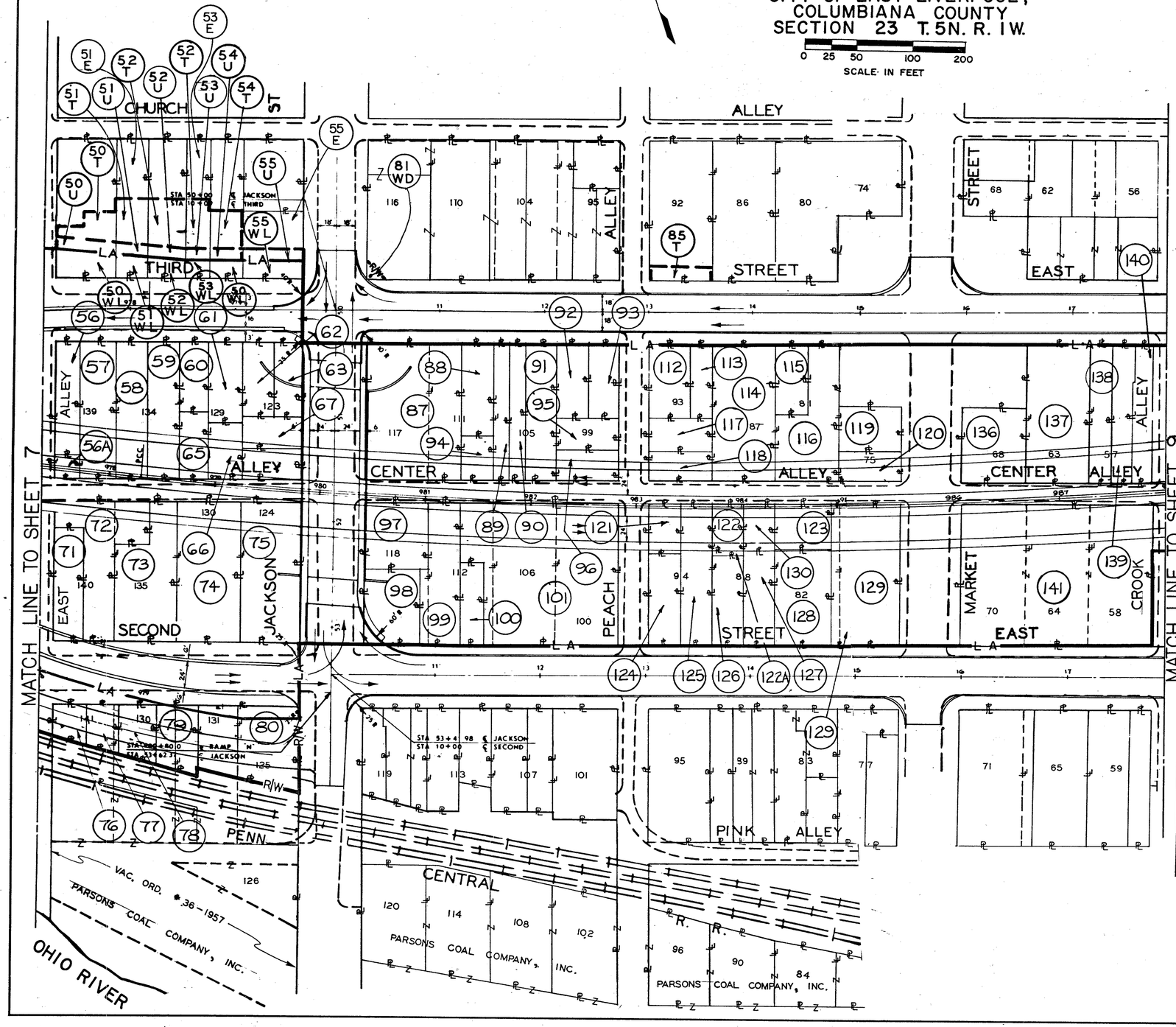


PARCEL Nº	OWNERS
50-WL 50-U 50-T	HEIRS OF ALEXANDER OSBORN, DECEASED LIFE ESTATE - EMMA PATTERSON, DOROTHY OSBORN
51-WL 51-U 51-T	MARGARET SMITH A.K.A. MARGARET H. SMITH
52-WL 52-U 52-T	CLIFFORD C. SHENTON + JUDITH A. SHENTON
53-WL 53-U 53-T	RICHARD MAYS + EVELYN MAYS
54-WL 54-U 54-T	AGNES A. MCSWEGIN + IRENE K. CRAWFORD
55-WL 55-U	FIRST FEDERAL SAVUNGS AND LOAN ASSOCIATION OF EAST LIVERPOOL
56-WL	JEAN E. SCOTT, MARGARET S. SCOTT OYSTER, F.K.A. MARGARET S. SCOTT, ROBERT E. SCOTT + RICHARD L. SCOTT
56A-WL	DOROTHY JEAN EDGELL TOMLINSON A.K.A. DOROTHY JEAN EDGELL
57-WL	SAMUEL J. DECAPIO
58-WL	GERALDINE J. GRAHAM, EXECUTRIX OF THE ESTATE OF DORA LOWE A.K.A. DORA M. LOWE DECEASED
59-WL	CLYDE D. WOOD AND BETTY KAY WOOD
60-WL	WILDA BREEZE + S. TAIT HILBERT JR., PARTNERS, D.B.A. WILDA BREEZE + S. TAIT HILBERT, JR., PROPERTIES
61-WL	RALPH F. HUTCHINSON + FLORENCE G. HUTCHINSON
62-WL	MARJORIE E. WOESSNER
63-WL	BERTHA E. KAUFMAN
65-WL	ROBERT E. DUKE + RUTH ANN DUKE
66-WL	RALPH MAYS + PATSY ANN MAYS
67-WL	MARCELLA M. BANCROFT
71-WL	LELAND R. KAPP + BETTY KAPP
72-WL	LELAND R. KAPP + KAROLE L. KAPP
73-WL	EARNEST CROSS, JR. A.K.A. ERNEST CROSS, JR. + NORA JEAN CROSS
74-WL	ROBERT BOICE LAUGHLIN A.K.A. ROBERT LAUGHLIN
75-WL	IVY M. LEYDA
76-WL	EVELYN P. TAYLOR
77-WL	EVELYN TAYLOR A.K.A. EVELYN P. TAYLOR
78-WL	DALE MERCER + OPAL MERCER
79-WL	DALE L. MERCER, SR. AND/OR OPAL M. MERCER
80-WL	PARSONS COAL COMPANY, AN OHIO CORPORATION
81-WL	ALFRED C. GLOECKNER, JR., A.K.A. ALFRED GLOECKNER + SANDRA M. GLOECKNER
83-WL	CITY OF EAST LIVERPOOL, OHIO
85-T	FRANK L. POTTS + VIRGINIA M. POTTS
87-WL	THE TRUSTEES OF THE ST. JOHN EVANGELICAL LUTHERAN CHURCH OF EAST LIVERPOOL, OHIO
88-WL	JUANITA WILLIAMS
89-WL	JOHN S. WISE

PARCEL Nº	OWNERS
90-WL	FANNIE CASCIO
91-WL	EARL R. BOLE + ESSIE I. BOLE
92-WL	ELDEN C. WHITE
93-WL	ESTATE OF GRACE GREENWOOD DECEASED
94-WL	WILLIAM R. SIMS + SHIRLEY L. SIMS
95-WL	ESSIE I. BOLE
96-WL	OKEY NEWLEN + OLIVE NEWLEN
97-WL	ROXIE BLYSTONE
98-WL	PARSONS COAL COMPANY, INC., AN OHIO CORPORATION
99-WL	ESTATE OF MILTON R. WATSON, DECEASED
100-WL	DOROTHY L. KOUNTZ, A.K.A. DOROTHY KOUNTZ
101-WL	ANBRO, INC., AN OHIO CORPORATION
102-WL	RUTH E. PARSONS, N.K.A. RUTH PARSONS GREEN - OWNER WILLIAM MILLER - LAND CONTRACT HOLDER L.C.V. 1512 PG. 9
112-WL	THE FIRST NATIONAL BANK OF EAST LIVERPOOL, AS TRUSTEES FOR THE FIRST CHRISTIAN CHURCH, NINTH AND MAIN STREET, WELLSVILLE, OHIO
113-WL	MARIE H. TWEED
114-WL	THE CITY OF EAST LIVERPOOL, OHIO
115-WL	EARL R. BOLE + ESSIE I. BOLE
116-WL	RUTH MACKEY + THOMAS A. MACKEY
117-WL	EDNA WILLIAMS
118-WL	WOODROW W. TRAVIS + VIOLET M. TRAVIS
119-WL	ELIZABETH ANN COLEMAN + EVELYN JANE COLEMAN
120-WL	CHARLIE MAE SCOTT
121-WL	ROBERT RIGGS
122-WL	ESTATE OF THEODORE FARNSWORTH, DECEASED, + JOHANNA FARNSWORTH, DECEASED
122A-WL	HEIRS OF ETTA M. HAWKINS, A.K.A. ETTA MARIA HAWKINS
123-WL	OLIVER SPENCER
124-WL	HAZEL PEARL LONG, F.K.A. HAZEL PEARL SICKLES
125-WL	RAYMOND R. TREVELLINE
126-WL	BETTY L. JAMES, LOUISE WINKLE, DORIS STARR, LENA GIBSON AND FREDA FARNSWORTH
127-WL	GEORGE JAMES + BETTY LOU JAMES
128-WL	MICHAEL J. PUSATERI
129-WL	DEREDRETH F. WILSON, A.K.A. DEREDRETH WILSON + GRETCHEN WILSON THOMAS
130-WL	DAVE E. MOORE + PATSY L. MOORE
136-WL	FRANK J. MANGANO
137-WL	ALFRED C. GLOECKNER, JR. + SANDRA M. GLOECKNER
138-WL	JOSEPHINE L. DOWNARD
139-WL	JOSEPH LANEVE + ELEANOR M. LANEVE
140-WL	DANIEL D. HOWELL + HELEN HOWELL
141-WL	FRANK J. MANGANO

REV.	DATE	DESCRIPTION
✓	6884	Revised Record Area and Residue for Par. 81-WD

COMPLETION DATE - 2-9-84

PROPERTY MAP

AA 8/Pg 73202

PARCEL Nº	OWNERS
45-WL	ROSS D. WILLIAMSON A.K.A. ROSS DAVID WILLIAMSON
148-WL	PAULA J. SPAHR
149-WL	MARIE H. TWEED
150-WL	GUSTAVUS BURGESS, A.K.A. GUSTAVIUS BURGESS
151-WL	MARY A. CARROLL
152-WL	WILLIAM J. MAGILL + MARY JEAN MAGILL
153-WL	RICHARD J. BRYER + GERALDINE A. BRYER
154-WL	GUSTAVUS BURGESS, A.K.A. GUSTAVIUS BURGESS
155-WL	C. GLEN MCGAFFIC
156-WL 156-U	OWNER UNKNOWN
157-WL	THE OHIO POWER COMPANY, AN OHIO CORPORATION
158-WL	MARY JEAN MAGILL
161-WL	DONNA JEAN NALLY + KENNETH PAUL RAYL
162-WL	WILLIAM THOMAS GRAHAM
163-WL	MARIE H. TWEED
164-WL	JACQUELINE E. CASTO, A.K.A. JACQUELINE CASTO
165-WL	JAMES A. MOORE
166-WL	HARVEY N. MCHENRY, LOUISE L. BELL AND HEIRS OF ALEXINA MCHENRY, DECEASED
167-WL	CITY OF EAST LIVERPOOL, OHIO
169-WL	CITY OF EAST LIVERPOOL
170-WL 170-T	JAMES T. TAYLOR AND EVELYN A. TAYLOR, N.K.A. EVELYN A. ARKADION
171-WL 171-U 171-T	DOROTHY ADAMS
173-WL 173-T	ALICE CATHERINE BEANE BANKS
173A-U	*BARBARA C. MOORE a.k.a. BARBARA C. BANKS MOORE a.k.a. BARBARA CATHERINE BANKS MOORE*

PROPERTY MAP
COL-30-35.29
CITY OF EAST LIVERPOOL, COLUMBIANA COUNTY
SECTION 23 T.5N. R.1W.

0 25 50 100 200
SCALE IN FEET

N

PARCEL Nº	OWNERS
174-WL 174-U 174-T	HARRY Y. GEORGE
175-WL	BEATRICE B. DAVIDSON
176-WL	ORIN C. SMITH, JR.

PARCEL Nº	OWNERS
177-WL	CITY OF EAST LIVERPOOL, OHIO
178-WL	FRANK L. POTTS
179-WL 180-SA 181-WL	FRANK WILLIAM HANCOCK *KENT STATE UNIVERSITY* ALVIN CROSSWHITE
182-WL	FRANK WILLIAM HANCOCK, A.K.A. FRANK W. HANCOCK
183-WL	RHODA C. JOHNSTON
184-WL	ECONOMY FURNITURE COMPANY, INC., AN OHIO CORPORATION
185-WL	AUDRA PEARL SEARS
186-WL	KENNETH AND ELMA BECKWITH
191-WL	FRANK WILLIAM HANCOCK
192-WL	HENRY H. DAVIES
193-WL 193-E	AMOS W. RAYLE
194-WL 194-U	SCOTT A. OWEN
195-WL	NATHAN AND RUTH CHAFINS
196-WL	IRIS LISLE, A.K.A. IRIS LISLE FERGUSON A.K.A. IRIS FERGUSON
197-WL	MORRIS FINEMAN
198-WL	MARY R. BETTERIOGE, KENNETH O. MCCAUGHTRY AND JANE ANN EMMERLING
199-WL	EDMOND R. BRAHAM + VIOLET BRAHAM
200-WL	HAYES OIL COMPANY, AN OHIO CORPORATION
201-WL	INNTOWN MOTEL, INC., AN OHIO CORPORATION
202-WL	JOHN RICHARD WOOMER, JOHN RAY WOOMER + MICHAEL J. PUSATERI
203-WL	CITY OF EAST LIVERPOOL, OHIO
204-WL	JOHN RICHARD WOOMER, JOHN RAY WOOMER + MICHAEL J. PUSATERI
205-WL	HEIRS OF GRAZIA, A.K.A. GRACE PALMISANO, GUS P. PALMISANO, MYRTLE W. PALMISANO, HEIRS OF LENA A. PALMISANO, GUSTINO GERACE, MARY FRICANO
206-WL	CHRISCON COMPANY, AN OHIO CORPORATION
207-WL	WILLIAM A. AND MILDRED PICKENS WOOLLEY
208-WL	MILDRED MARIE PICKENS, M.K.A. MILDRED MARIE WOOLLEY
209-WL	MIKE PUSATERI EXCAVATING COMPANY, INC., AN OHIO CORPORATION
210-WL	EXXON CORPORATION, A NEW JERSEY CORPORATION
211-WL	CARMELLA GALIPO
504-WL	MICHAEL + LOIS J. PUSATERI
505-WL	MARGARET JEFFRIES
506-WL	COMMUNITY RESCUE MISSION, INC., AN OHIO CORPORATION
509-PR	MICHAEL J. PUSATERI + LOIS J. PUSATERI
510-WD	CLEVELAND + PITTSBURGH RAILROAD COMPANY
511-PR 511-E	MICHAEL J. PUSATERI
512-PR 512-E	*ALBERT D. AND SHIRLEY M. GREEN*

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

334/362

9/37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

EAST FOURTH STREET
APPLE ALLEY
HIGH ALLEY
EXIST. L.A.
CHURCH ALLEY
THIRD STREET
CENTER ALLEY
SECOND STREET
SHORT ALLEY
FARMERS ALLEY
WASHINGTON
CHERRY
UNION
CROOK
PINK ALLEY
CENTRAL R. R.
HILL & SMITHS ADDITION VOL. 16 PG. 419
PROR. RETAINING WALL
POINT OF ACCESS STA. 23+93.45 (℄ SECOND ST.)
POINT OF ACCESS STA. 53+71.98 (℄ UNION ST.)
END ACQUISITION STA. 999+30.52 COL. 30-35.29
END PROJECT COL. 30-35.29 STA. 1010+50.00
U-457(14)
MATCH LINE SHEET 8

Dist. 6-7-84	Changed Par. 173-U to 173A-U & Rev. Ownership.
Dist. 2-9-84	Revised Ownership on Par. 512-PR & Added Par. 171-E
REV. DATE	DESCRIPTION
	COMPLETION DATE – 2-9-84

PROPERTY MAP

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

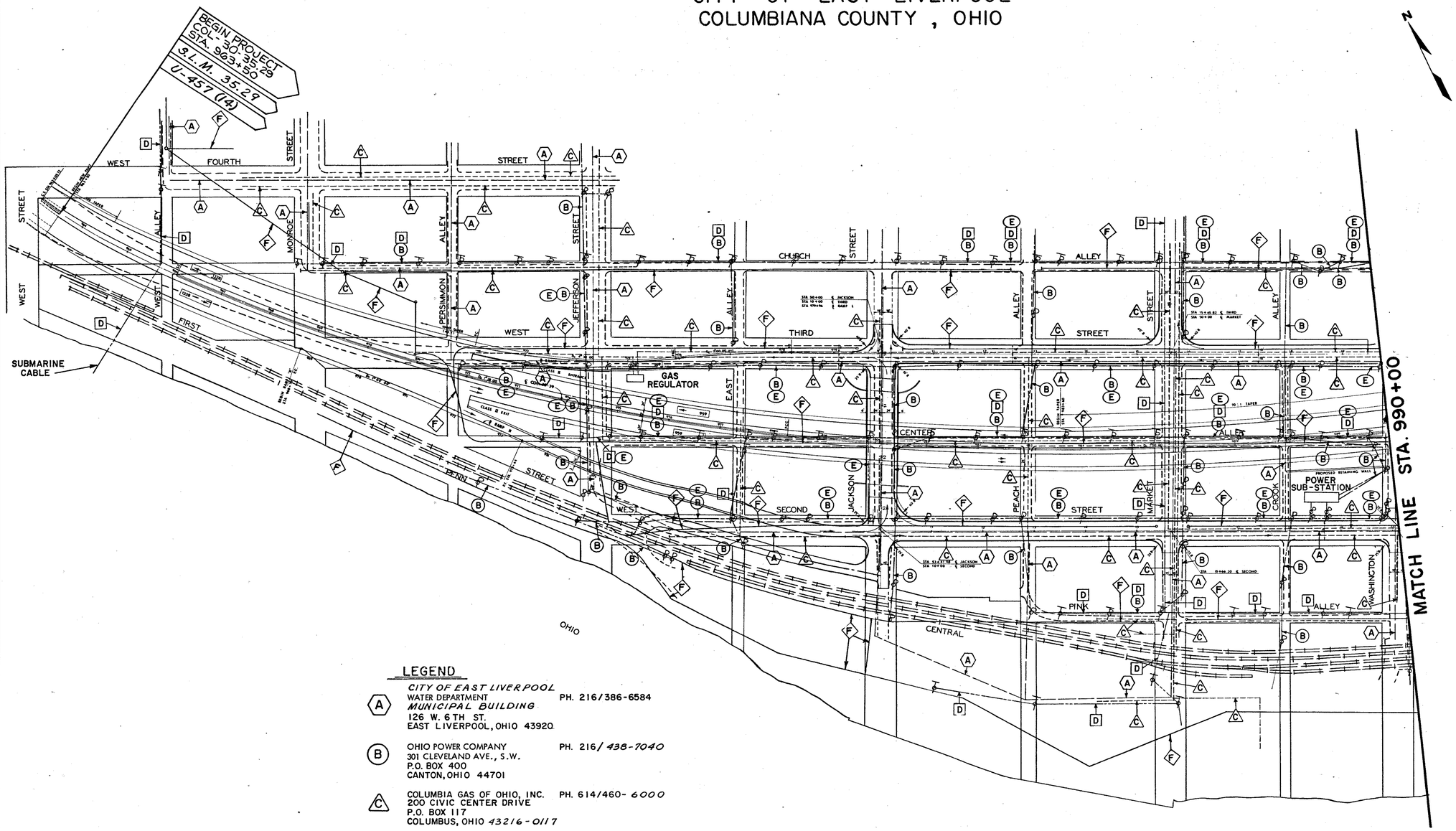
335
362

10
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

UTILITY PLAN

COL-30-35.29
CITY OF EAST LIVERPOOL
COLUMBIANA COUNTY , OHIO



LEGEND

(A) *CITY OF EAST LIVERPOOL*
WATER DEPARTMENT PH. 216/386-6584
MUNICIPAL BUILDING
126 W. 6TH ST.
EAST LIVERPOOL, OHIO 43920

(B) OHIO POWER COMPANY PH. 216/438-7040
301 CLEVELAND AVE., S.W.
P.O. BOX 400
CANTON, OHIO 44701

(C) COLUMBIA GAS OF OHIO, INC. PH. 614/460-6000
200 CIVIC CENTER DRIVE
P.O. BOX 117
COLUMBUS, OHIO 43216-0117

[D] OHIO BELL TELEPHONE COMPANY PH. 216/744-6450
2405 MARKET ST.
YOUNGSTOWN, OHIO 44507

(E) C.A.T.V. OF OHIO VALLEY, INC. PH. 216/385-4854
415 MARKET STREET
EAST LIVERPOOL, OHIO 43920

◇F *CITY OF EAST LIVERPOOL*
SEWER DEPARTMENT PH. 216/386-6584
MUNICIPAL BUILDING
126 W. 6TH ST.
EAST LIVERPOOL, OHIO 43920

(G) COLUMBIA GAS TRANSMISSION CORP. PH. 304/357-2000
P.O. BOX 1273
CHARLESTON, W. VA. 25325

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 100 200 300

UTILITY PLAN

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

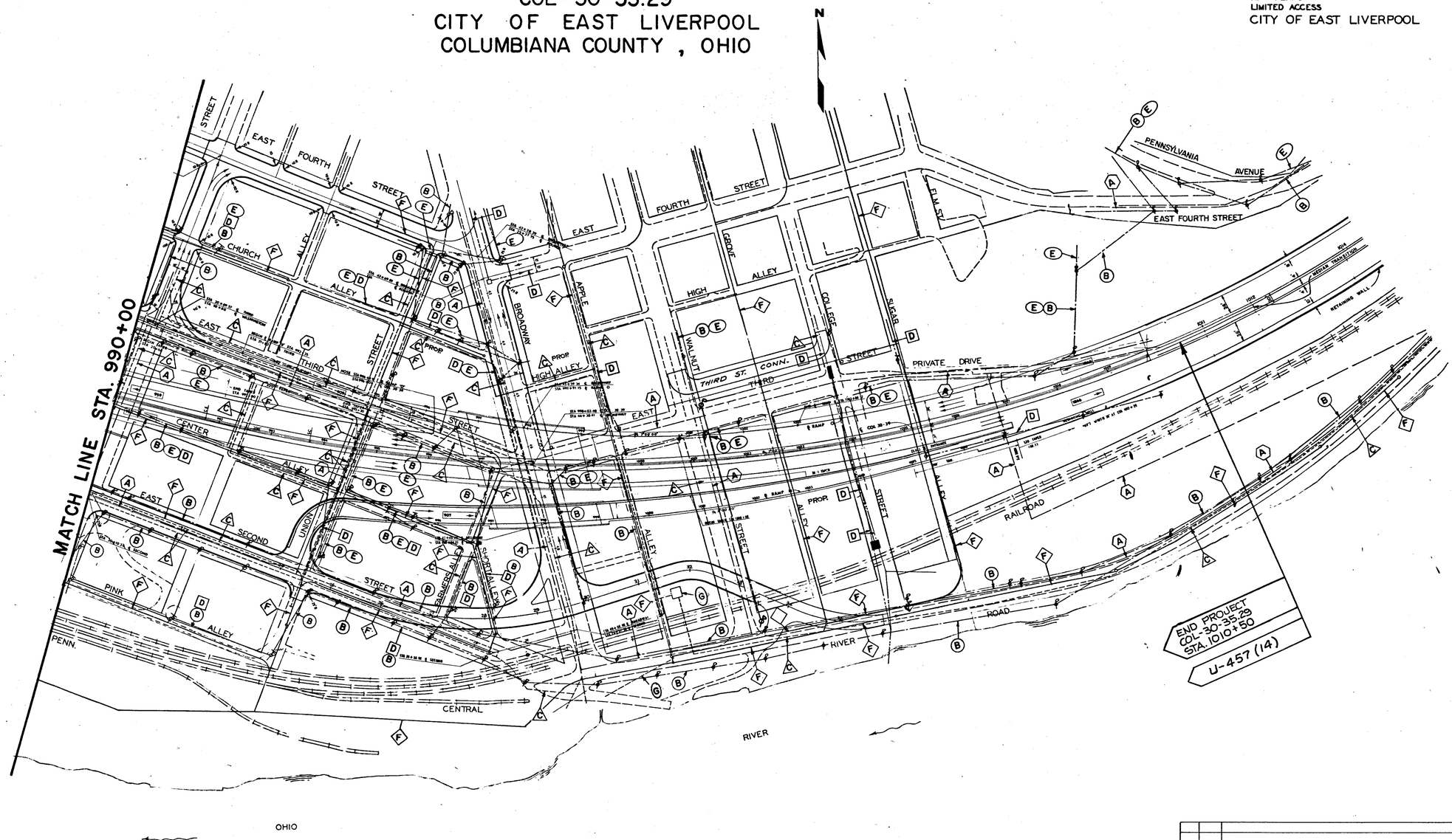
336
362

11
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

UTILITY PLAN

COL-30-35.29
CITY OF EAST LIVERPOOL
COLUMBIANA COUNTY , OHIO



NOTE: FOR NAMES AND ADDRESSES OF UTILITY OWNERS SEE SHEET NO. 10.

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 100 200 300

UTILITY PLAN

AA B/Pe 73202

TOTAL NUMBER OF___
187 OWNERSHIPS
158 TOTAL TAKES
161 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC. BY RRC DATE 2-1-80
CHKD. BY EHC DATE 2-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

337/362

12/37

RIGHT OF WAY PLANS
LIMITED ACCESS

STATE PROJECT 11829(0)

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1-WL	JOHN M. GRAHAM AND GERALDINE J. GRAHAM A.K.A. GERALDINE GRAHAM	24	680 1071 1535	110 408 734	2,173	1,307	2,173	1,307	866	YES	0	0			83-3	950
2-WL	SARA L. HAGUE F.K.A. SARA L. YAGER	26	675 1075	527 656	4,760	2,534	4,760	2,534	2,226	YES	0	0			1551	489
3-WL	THOMAS V. McELROY AND GLORIA McELROY	26	1213	614	3,900	0	3,900	0	3,900	YES	0	0			1503	593
4-WL	ANDREW GIAMBRONI AND PHOEBE S. GIAMBRONI	26	964	478	3,900	0	3,900	0	3,900	YES	0	0			83-3	946
5-WL	DELANO D. DRUMM AND PEGGY A DRUMM	26	1446	262	787	0	787	0	787	YES	0	0			1553	451
6-WL	MARY E. FRANKLIN	26	859 1503	478 337	1,662	0	1,662	0	1,662	YES	0	0			1549	964
7-WL 7-WD	ARTHUR L. CARMAN AND DEBBIE G. CARMAN	26	1510	416	3,250	0	2,001 1,249	0 0	2,001 1,249	YES YES	0	0				
8-WL 8-WD	DONALD VULETIC AND VIRGINIA VULETIC	26	1463 83-5	451 387	3,900	0	2,230 1,670	0 0	2,230 1,670	YES YES	0	0			O.R.V. 31 O.R.V. 31	174 172
9-WL 9-WD	PAUL E. LITTLE AND BETTY S. LITTLE	26	1191	584	3,900	0	2,043 1,857	0 0	2,043 1,857	YES YES	0	0				
10-WL	DONALD L. AND SARAH L. MILLER	26	1407	321	1,950	0	1,950	0	1,950	YES	0	0			1549	171
11-WL	DAVE E. MOORE A.K.A. DAVID E. MOORE AND PATSY L. MOORE LAND CONTRACT HOLDER LARRY MARSHALL, a.k.a. LARRY B. MARSHALL PARCEL 11-WL is TOTAL	26	1398 1484 1392 1406	271 504 663 644&646	3,900 3,360 2,700 1,740	0 0 0 0	1,694 2,976 0 0	0 0 0 0	1,694 2,976 0 0	NO	2,206 384 2,700 1,740	0 0 0 0	S			
* 11-U	LAND CONTRACT VOLUME 19, PAGE 284	26			11,700	0	4,670 1,328	0 0	4,670 1,328		7,030	0	D	EASEMENT FOR WATERLINE & SANITARY SEWER		
12	NOT USED															
13-WL	SONDRA L. WHEATLEY	25, 26	1531	790	1,475	0	1,475	0	1,475	YES	0	0	N		1553	449
14-WL	THE CITY OF EAST LIVERPOOL, OHIO	25, 26	1500	435	2,424	0	2,424	0	2,424	YES	0	0	D		83-13	129
15-WL	MARY ELIZABETH FRANKLIN AND LETTICE O. LEE	25, 26	1393 1404	911 122	2,100	0	2,100	0	2,100	YES	0	0	E		1523	362
16-WL	RODERICK N. MAYS AND VIOLET C. MAYS	25, 26	1062	360	2,100	0	2,100	0	2,100	YES	0	0	I		1553	447
17-WL	CLARA BARNHART	25, 26	1537	530-534	7,800	0	7,800	0	7,800	YES	0	0	D		1549	960
18	NOT USED															
19-WL	RICHARD MAYS AND EVELYN MAYS	25, 26	1194	460	5,977	0	5,977	0	5,977	YES	0	0			1553	640
20-WL	CLEVELAND & PITTSBURGH RAILROAD COMPANY	25	539	524	7,500	0	7,500	0	7,500	NO	0	0			1537	854
21-WL	ESTELL DAVENPORT	25	797	336	1,822	0	1,822	0	1,822	YES	0	0			1551	853
22-WL	CLEVELAND & PITTSBURGH RAILROAD COMPANY	25	539	524	12,480	0	12,480	0	12,480	NO	0	0			1537	854
23-WL 23-E	ROSE WELLS SMITH A.K.A. ROSE WELLS	26	913	485	2,366	0	1,798 568	0 0	1,798 568	YES ---	568 0	0 0			1523	762
24-WL	DANIEL H. BRAND	26	1343 1529	636 797	2,176	0	2,176	0	2,176	YES	0	0			83-12	614
25-WL * 25-U 25-T 25-E	HEIRS OF REBECCA SIMPSON, DECEASED	28 28 28 28	844	376	2,430	0	1,086 271 1,344 1,344	0 0 0 0	1,086 271 1,344 1,344	YES	1,344	0		EASEMENT FOR WATERLINE & SANITARY SEWER REMOVE STRUCTURE (25-T OVERLAPS THE AREA OF 25-U) PARCEL 25-E OVERLAPS THE AREA OF PARCEL 25-U		
26-WL * 26-U 26-T 26-E	CURTIS A. PALMER	28 28 28 28	1398 1404	380 269	3,900	0	1,153 301 1,697 2,747	0 0 0 0	1,153 301 1,697 2,747	YES	2,747	0		EASEMENT FOR WATERLINE & SANITARY SEWER REMOVE STRUCTURE (26-T OVERLAPS THE AREA OF 26-U) PARCEL 26-E OVERLAPS THE AREA OF PARCEL 26-T		

* UTILITY EASEMENTS PURCHASED FOR THE CITY OF EAST LIVERPOOL, OHIO

NOTE:
THE SUM OF THE NET RESIDUE PLUS THE NET TAKE WILL EQUAL THE RECORD AREA, LESS THE TOTAL P.R.O.

NOTE:
AREA CALCULATED UNLESS OTHERWISE NOTED. ALL AREAS LISTED ARE IN SQUARE FEET UNLESS OTHERWISE INDICATED.

PLAN COMPLETED 2-9-84

REV.	DATE	DESCRIPTION
Dist. 11	2-28-84	Rev. the Total Number of Ownerships With Structures Involved

R/W SUMMARY SHEET

TOTAL NUMBER OF___
___ OWNERSHIPS
___ TOTAL TAKES
___ OWNERSHIPS WITH STRUCTURES INVOLVED
___ OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC. BY RRC DATE 5-1-80
CHKD. BY EWC DATE 5-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

338 / 362
13 / 37

RIGHT OF WAY PLANS
LIMITED ACCESS

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
27-WL *27-U 27-T 27-E	DANIEL H. BRAND	28 28 28 28	1343 1529	636 797	3,900	0	1,097 301 1,303 2,803	0 0 0	1,097 301 1,303 2,803	YES	2,803	0		EASEMENT FOR WATERLINE & SANITARY SEWER REMOVE STRUCTURE (27-T OVERLAPS THE AREA OF 27-U) PARCEL 27-E OVERLAPS THE AREA OF PARCEL 27-T		
28-WL *28-U 28-T 28-E	GLEN A. McCONNELL AND EDNA R. McCONNELL	28 28 28 28	1463	618	3,900	0	1,041 301 1,359 2,859	0 0 0	1,041 301 1,359 2,859	YES	2,859	0		EASEMENT FOR WATERLINE & SANITARY SEWER REMOVE STRUCTURE (28-T OVERLAPS THE AREA OF 28-U) PARCEL 28-E OVERLAPS THE AREA OF PARCEL 28-T		
29-WL *29-U	ST. STEPHENS CHURCH, AN OHIO RELIGIOUS CORPORATION	28 28	968	391	7,800	0	1,912 601	0 0	1,912 601	NO	5,888	0		EASEMENT FOR WATERLINE & SANITARY SEWER		
30-WL	THE CITY OF EAST LIVERPOOL, OHIO	26,28	1502	18	4,410	0	4,410	0	4,410	YES	0	0			83-13	131
31-WL	ALICE LOW	28	571 1154	489 52	2,100	0	2,100	0	2,100	YES	0	0			1322	475
32-WL	DOROTHY SAULT AND EILEEN TOUVELLE, EXECUTRICES OF THE ESTATE OF ELDA R. MAYS, DECEASED	26, 27, 28	472	76	2,160	0	2,160	0	2,160	YES	0	0			1373	489
33-WL	JAMES L. RICHARDS	27, 28	1379 1382	287 572	1,800	0	1,800	0	1,800	YES	0	0			1394	976
34-WL	WILLIAM S. FOULKS, JR.	27, 28	1049	638	3,900	0	3,900	0	3,900	YES	0	0	S		O.R.V. 26	476
35-WL	WILLIAM EDWIN FODEN, III & DELORIS J. FODEN	27, 28	1253	659	3,900	0	3,900	0	3,900	YES	0	0	D		1553	947
36-WL	KATHRYN PRESCOTT AND ELEANOR M. WATTERS	27, 28	1252	153	3,900	0	3,900	0	3,900	YES	0	0	N		1551	491
37-WL	LEONARD BLOOR, JR.	28	686 964 977	259 306 59	2,904	0	2,904	0	2,904	YES	0	0	U		1500	701
38-WL	STELLA EDITH MILLWARD A.K.A. STELLA MILLWARD	28	655 1215	212 41	2,322	0	2,322	0	2,322	YES	0	0	F		1372	967
39-WL	RICHARD MAYS AND EVELYN MAYS LIFE ESTATE: ANNA ADRIAN	25, 27	1191	108	1,230	0	1,230	0	1,230	YES	0	0	I		1553	644
40-WL	RICHARD MAYS AND EVELYN MAYS	27, 28	1054	222	1,359	0	1,359	0	1,359	YES	0	0	D		1553	642
41-WL	ROBERT BERDINE	27, 28	1537	274	1,215	0	1,215	0	1,215	YES	0	0			83-2	805
42-WL	DOROTHY M. HALPATE	27	1373	807	1,440	0	1,440	0	1,440	YES	0	0			1539	530
43-WL	EDWIN D. FOULKS	27	658	119	4,378	0	4,378	0	4,378	NO	0	0			1553	634
44-WL	THE CITY OF EAST LIVERPOOL, OHIO	27	1500	515	7,340	0	7,340	0	7,340	YES	0	0			83-13	127
45-WL	MARIE H. TWEED	27	1394	17	3,380	0	3,380	0	3,380	YES	0	0			1549	966
46-WL	HEIRS OF EDWARD LARKINS, DECEASED	27	715 955 956 1256	81 637 249 403	3,250	0	3,250	0	3,250	YES	0	0			83-8	132
47-WL	RICHARD MAYS AND EVELYN MAYS	27	1185	387	4,680	0	4,680	0	4,680	YES	0	0			1553	646
48-WL	THELMA E. CLICK	27	1192 1289	62 750&752	4,290	0	4,290	0	4,290	YES	0	0			1547	895
49	NOT USED															
50-WL *50-U 50-T	HEIRS OF ALEXANDER OSBORN, DECEASED LIFE ESTATE: EMMA PATTERSON, DOROTHY OSBORNE	28 28 28	428	13	7,800	0	1,657 600 1,868	0 0 0	1,657 600 1,868	YES	6,143	0		EASEMENT FOR WATERLINE & SANITARY SEWER REMOVE STRUCTURE (50-T OVERLAPS THE AREA OF 50-U)		

* UTILITY EASEMENTS PURCHASED FOR THE CITY OF EAST LIVERPOOL, OHIO

NOTE:
THE SUM OF THE NET RESIDUE PLUS THE NET TAKE WILL EQUAL THE RECORD AREA, LESS THE TOTAL P.R.O.

NOTE:
AREA CALCULATED UNLESS OTHERWISE NOTED. ALL AREAS LISTED ARE IN SQUARE FEET UNLESS OTHERWISE INDICATED.

PLAN COMPLETED - 2-9-84

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

TOTAL NUMBER OF___
___ OWNERSHIPS
___ TOTAL TAKES
___ OWNERSHIPS WITH STRUCTURES INVOLVED
___ OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC. BY RRC DATE 3-7-83
CHKD. BY EHC DATE 3-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

339
362

14
37

RIGHT OF WAY PLANS
LIMITED ACCESS

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
51-WL	MARGARET SMITH A.K.A. MARGARET H. SMITH	28	749	89	3,900	0	721	0	721	YES	3,179	0				
*51-U		28	1167	13&15			300	0	300					EASEMENT FOR WATERLINE & SANITARY SEWER		
51-T		28	1249	586&588			1,528	0	1,528					REMOVE STRUCTURE (51-T OVERLAPS THE AREA OF 51-U)		
51-E		28	1383	458			3,179	0	3,179							
52-WL	CLIFFORD C. SHENTON AND JUDITH A. SHENTON	28	1433	725	4,680	0	771	0	771	YES	3,909	0				
*52-U		28					360	0	360					EASEMENT FOR WATERLINE & SANITARY SEWER		
52-T		28					1,929	0	1,929					REMOVE STRUCTURE (52-T OVERLAPS THE AREA OF 52-U)		
52-E		28					3,909	0	3,909					PARCEL 52-E OVERLAPS THE AREA OF PARCEL 52-T		
53-WL	RICHARD MAYS AND EVELYN MAYS	28	1286	470	3,120	0	480	0	480	YES	2,640	0				
53-U		28					240	0	240					EASEMENT FOR WATERLINE & SANITARY SEWER		
*53-T		28					1,320	0	1,320					REMOVE STRUCTURE (53-T OVERLAPS THE AREA OF 53-U)		
53-E		28					2,640	0	2,640							
54-WL	AGNES A. MCSWEGIN AND IRENE K. CRAWFORD	28	698	85	3,900	0	600	0	600	YES	3,300					
*54-U		28					300	0	300					EASEMENT FOR WATERLINE & SANITARY SEWER		
54-T		28					1,350	0	1,350					REMOVE STRUCTURE (54-T OVERLAPS THE AREA OF 54-U)		
55-WL	FIRST FEDERAL SAVINGS AND LOAN ASSOCATION OF EAST LIVERPOOL, n.k.a. THE POTTERS SAVINGS AND LOAN COMPANY OF EAST LIVERPOOL, OHIO.	28	1483	273	3,900	0	1,200	0	1,200	NO	2,700	0				
55-U		28	1545	639			600	0	600							
*55-E		28					2,700	0	2,700					EASEMENT FOR WATERLINE & SANITARY SEWER		
56-WL	JEAN E. SCOTT, MARGARET S. SCOTT OYSTER, F.K.A. MARGARET S. SCOTT, ROBERT E. SCOTT AND RICHARD L. SCOTT	28	83-2	646	2,187	0	2,187	0	2,187	YES	0	0	S		83-3	118
56A-WL	DOROTHY JEAN EDGELL TOMLINSON A.K.A. DOROTHY JEAN EDGELL	28	866	454	1,062	0	1,062	0	1,062	YES	0	0			1410	757
57-WL	SAMUEL J. DECAPIO	28	1244	67	4,550	0	4,550	0	4,550	YES	0	0	D		1549	962
			1531	165												
58-WL	GERALDINE J. GRAHAM, EXECUTRIX OF THE ESTATE OF DORA LOWE A.K.A. DORA M. LOWE, DECEASED	28	758	533	3,900	0	3,900	0	3,900	YES	0	0	N		1415	975
59-WL	CLYDE D. WOOD AND BETTY KAY WOOD	28	1535	896	3,900	0	3,900	0	3,900	YES	0	0	U		83-3	952
60-WL	WILDA BREEZE AND S. TAIT HILBERT, JR., PARTNERS, D-B-A. WILDA BREEZE AND S. TAIT HILBERT, JR., PROPERTIES	28	1361	522	1,848	0	1,848	0	1,848	YES	0	0	F			
61-WL	RALPH F. HUTCHINSON & FLORENCE G. HUTCHINSON	28	1289	244	2,451	0	2,451	0	2,451	YES	0	0	I		1400	587
62-WL	MARJORIE E. WOESSNER	28	1050	349	2,117	0	2,117	0	2,117	YES	0	0	U		83-2	801
63-WL	BERTHA E. KAUFMAN	28	1376	605	2,083	0	2,083	0	2,083	YES	0	0			1393	965
64-WL	PAULA J. SPAHR	26	1219	208	875	0	875	0	875	YES	0	0			83-15	606
65-WL	ROBERT E. DUKE AND RUTH ANN DUKE	28	918	386	1,792	0	1,792	0	1,792	YES	0	0			1343	686
66-WL	RALPH MAYS AND PATSY ANN MAYS	28	1143	151	1,709	0	1,709	0	1,709	YES	0	0			1533	169
67-WL	MARCELLA M. BANCROFT	28	686	465	3,600	0	3,600	0	3,600	YES	0	0			83-3	944
			686	516												
			707	215												
			707	512												
			721	306												
			1464	903&905												
68-WD	PAUL W. OWEN	26	698	456	1,225	0	1,225	0	1,225	YES	0	0				
69-WL	DALE CARNES - OWNER; BRUCE HAWKINGBERRY - LAND CONTRACT	27	1376	41	804	0	804	0	804	YES	0	0			83-2	799
			1508	984												
70	NOT USED															
71-WL	LELAND R. KAPP AND BETTY KAPP	27	800	162	3,150	0	3,150	0	3,150	YES	0	0			O.R.V. 21	835
			1227	86 & 152												
72-WL	LELAND R. KAPP AND KAROLE L. KAPP	27	1367	394	2,700	0	2,700	0	2,700	YES	0	0			O.R.V. 21	838

* UTILITY EASEMENTS PURCHASED FOR THE CITY OF EAST LIVERPOOL, OHIO

NOTE:
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NOTE:
AREA CALCULATED UNLESS OTHERWISE NOTED. ALL AREAS LISTED ARE IN SQUARE FEET UNLESS OTHERWISE INDICATED.

PLAN COMPLETED - 2-9-84

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

AA B/Pe 73202

TOTAL NUMBER OF___
___ OWNERSHIPS
___ TOTAL TAKES
___ OWNERSHIPS WITH STRUCTURES INVOLVED
___ OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC BY RRC DATE 5-1-80
CHKD BY EHC DATE 1-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

340
362
15
37

RIGHT OF WAY PLANS
LIMITED ACCESS

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
73-WL	EARNEST CROSS, JR. A.K.A. ERNEST CROSS, JR. AND NORA JEAN CROSS	27	1253 1276	507 482	6,480	0	6,480	0	6,480	YES	0	0			1410	755
74-WL	ROBERT BOICE LAUGHLIN A.K.A. ROBERT LAUGHLIN	27	514 753	463 528	7,800	0	7,800	0	7,800	YES	0	0			83-12	611
75-WL	IVY M. LEYDA	27	1231	231	7,800	0	7,800	0	7,800	YES	0	0			1373	208
76-WL	EVELYN P. TAYLOR	27	1476 1537	201 657	1,143	0	1,143	0	1,143	YES	0	0			1553	949
77-WL	EVELYN TAYLOR A.K.A. EVELYN P. TAYLOR	27	1249 1551	494 103	1,430	0	1,430	0	1,430	YES	0	0			1553	951
78-WL	DALE MERCER AND OPAL MERCER	27	1041	676	1,845	0	1,845	0	1,845	YES	0	0			83-3	954
79-WL	DALE L. MERCER, SR. AND/OR OPAL M. MERCER	27	1392	194	2,485	0	2,485	0	2,485	YES	0	0			1549	169
80-WL	PARSONS COAL COMPANY, AN OHIO CORPORATION	27	1435	340	6,962	0	6,962	0	6,962	NO	0	0				
81-WD	ALFRED C. GLOECKNER, JR. A.K.A. ALFRED GLOECKNER AND SANDRA M. GLOECKNER	30	1376 1389 1376	87 475&477 89&95	29,220	0	200	0	200	NO	29,020	0				
82	NOT USED															
83-WL	CITY OF EAST LIVERPOOL, OHIO	27	1500	515	3,270	0	3,270	0	3,270	NO	0	0			83-13	123
84-WD	DONALD BRYARLEY	26	1511	817	1,177	0	1,177	0	1,177	YES	0	0	S			
85-T	FRANK L. POTTS AND VIRGINIA M. POTTS	30	1345	66	7,800	0	900	0	900	NO	7,800	0	D	CONSTRUCT DRIVEWAY		
86-WD	JAMES DONALD KENNEDY	26	702	193	773	0	773	0	773	NO	0	0	N			
87-WL	THE TRUSTEES OF THE ST. JOHN EVANGELICAL LUTHERAN CHURCH OF EAST LIVERPOOL, OHIO	30	282	451	11,700	0	11,700	0	11,700	YES	0	0	U		1326	371
88-WL	JUANITA WILLIAMS	30	1071 1113	14 342	2,636	0	2,636	0	2,636	YES	0	0	E		1523	364
89-WL	JOHN S. WISE	30	1027	157	1,950	0	1,950	0	1,950	YES	0	0			1411	507
90-WL	FANNIE CASCIO	30	1307	386	1,950	0	1,950	0	1,950	YES	0	0	D		1411	505
91-WL	EARL R. BOLE AND ESSIE I. BOLE	30	668	95	3,900	0	3,900	0	3,900	YES	0	0			1389	525
92-WL	ELDEN C. WHITE	30	1506	6	2,100	0	2,100	0	2,100	YES	0	0			1527	58
93-WL	ESTATE OF GRACE GREENWOOD, DECEASED	30	511 601	302 416	2,100	0	2,100	0	2,100	YES	0	0			1406	662
94-WL	WILLIAM R. SIMS AND SHIRLEY L. SIMS	30	1244	397	1,264	0	1,264	0	1,264	YES	0	0			1551	855
95-WL	ESSIE I. BOLE	30	1256	122	1,800	0	1,800	0	1,800	YES	0	0			1389	521
96-WL	OKEY NEWLEN AND OLIVE NEWLEN	30	838	429	1,800	0	1,800	0	1,800	YES	0	0			1367	665
97-WL	ROXIE BLYSTONE	29	1250 1406	379 835	2,238	0	2,238	0	2,238	YES	0	0			1413	10
98-WL	PARSONS COAL COMPANY, INC., AN OHIO CORPORATION	29	1219	698	3,640	0	3,640	0	3,640	YES	0	0				
99-WL	ESTATE OF MILTON R. WATSON, DECEASED	29	1277	430	4,460	0	4,460	0	4,460	YES	0	0			1357	197
100-WL	DOROTHY L. KOUNTZ, A.K.A. DOROTHY KOUNTZ	29	617 1053	117 660	2,280	0	2,280	0	2,280	YES	0	0			83-3	948
101-WL	ANBRO, INC., AN OHIO CORPORATION	29	1376	748	17,220	0	17,220	0	17,220	YES	0	0			O.R.V. 29	875

NOTE:
THE SUM OF THE NET RESIDUE PLUS THE NET TAKE WILL EQUAL THE RECORD AREA, LESS THE TOTAL P.R.O.

NOTE:
AREA CALCULATED UNLESS OTHERWISE NOTED. ALL AREAS LISTED ARE IN SQUARE FEET UNLESS OTHERWISE INDICATED.
PLAN COMPLETED - 2-9-84

REV.	DATE	DESCRIPTION
✓	6-6-84	Rev. Deed References, Record Area & Residue for Par. 81-WD

R/W SUMMARY SHEET

AA B/Pr 73202

TOTAL NUMBER OF___
___OWNERSHIPS
___TOTAL TAKES
___OWNERSHIPS WITH STRUCTURES INVOLVED
___OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC. BY RRC DATE 5-1-80
CHKD. BY EHC DATE 1-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

341/362

16/37

RIGHT OF WAY PLANS
LIMITED ACCESS

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
102-WL	RUTH E. PARSONS, N.K.A. RUTH PARSONS GREEN - OWNER. LAND CONTRACT HOLDER: WILLIAM MILLER L.C.V. 1512 PG. 9	29	1440	439	1,362	0	1,362	0	1,362	YES	0	0			83-5	604
103 THRU 111 NOT USED																
112-WL	THE FIRST NATIONAL BANK OF EAST LIVERPOOL, AS TRUSTEE FOR THE FIRST CHRISTIAN CHURCH, NINTH AND MAIN STREET, WELLSVILLE, OHIO	30	1410	205	2,691	0	2,691	0	2,691	YES	0	0			83-2	803
113-WL	MARIE H. TWEED	30	1394	111&114	1,449	0	1,449	0	1,449	YES	0	0			1411	378
114-WL	CITY OF EAST LIVERPOOL, OHIO	30	1500	433	7,800	0	7,800	0	7,800	YES	0	0			83-2	807
115-WL	EARL K. BOLE AND ESSIE I. BOLE	30	1111	631	1,950	0	1,950	0	1,950	YES	0	0			1389	523
116-WL	RUTH MACKEY AND THOMAS A. MACKEY	30	1161 1419	23 450	5,850	0	5,850	0	5,850	YES	0	0			83-11	966
117-WL	EDNA WILLIAMS	30	992	412	1,860	0	1,860	0	1,860	YES	0	0			1392	882
118-WL	WOODROW W. TRAVIS AND VIOLET M. TRAVIS	30	1483	518	1,800	0	1,800	0	1,800	YES	0	0			83-5	359
119-WL	ELIZABETH ANN COLEMAN AND EVELYN JANE COLEMAN	30, 32	1057 1067	563&569 532	2,520	0	2,520	0	2,520	YES	0	0			83-16	178
120-WL	CHARLIE MAE SCOTT	30, 32	1549	906	1,680	0	1,680	0	1,680	YES	0	0	S		83-9	324
121-WL	ROBERT RIGGS	29	1506	512	1,405	0	1,405	0	1,405	YES	0	0	D		83-5	361
122-WL	ESTATE OF THEODORE FARNWORTH, DECEASED, & JOHANNA FARNSWORTH, DECEASED	29	692	508	1,350	0	1,350	0	1,350	YES	0	0	N		1468	457
122A-WL	HEIRS OF ETTA M. HAWKINS, A.K.A. ETTA MARIA HAWKINS	29	WILL 12 ADMIN. 14	143	150	0	150	0	150	NO	0	0	D		O.R.V. 19	161
123-WL	OLIVER SPENCER	29	1232	1	2,346	0	2,346	0	2,346	YES	0	0	E		1531	953
124-WL	HAZEL PEARL LONG, F.K.A. HAZEL PEARL SICKLES	29	779 831	88 520	2,494	0	2,494	0	2,494	YES	0	0	I		1393	963
125-WL	RAYMOND R. TREVELLINE	29	1264	5	3,900	0	3,900	0	3,900	YES	0	0	D		O.R.V. 26	479
126-WL	BETTY L. JAMES, LOUISE WINKLE, DORIS STARK, LENA GIBSON AND FREDA FARNSWORTH	29	1399 1399	623 625	2,400	0	2,400	0	2,400	YES	0	0			1403	540
127-WL	GEORGE JAMES AND BETTY LOU JAMES	29	1270	209	2,550	0	2,550	0	2,550	YES	0	0			1549	282
128-WL	MICHAEL J. PUSATERI	29	1177	286	4,674	0	4,674	0	4,674	NO	0	0			83-8	523
129-WL	DEREDRETH F. WILSON, A.K.A. DEREDRETH WILSON AND GRETCHEN WILSON THOMAS	29, 31	1304 1386	373 467	8,580	0	8,580	0	8,580	YES	0	0			O.R.V. 31	166
130-WL	DAVE E. MOORE AND PATSY L. MOORE	30	1376	113	1,350	0	1,350	0	1,350	YES	0	0			83-7	262
131 THRU 135 NOT USED																
136-WL	FRANK J. MANGANO	32	1511	105	4,200	0	4,200	0	4,200	NO	0	0				
137-WL	ALFRED C. GLOECKNER, JR. AND SANDRA M. GLOECKNER	32	1224	170	7,800	0	7,800	0	7,800	YES	0	0			O.R.V. 28	163
138-WL	JOSEPHINE L. DOWNARD	32	701 1119	500 331	2,665	0	2,665	0	2,665	YES	0	0			83-9	320
139-WL	JOSEPH LANEVE AND ELEANORE M. LANEVE	32	913	605	2,701	0	2,701	0	2,701	YES	0	0			1553	636
140-WL	DANIEL D. HOWELL AND HELEN HOWELL	32	1424	131	2,434	0	2,434	0	2,434	YES	0	0			83-10	963

NOTE:
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PLAN COMPLETED - 2-9-84

REV.	DATE	DESCRIPTION
Dist. 11	2-28-84	Revised Structure Column on Par. 136-WL

R/W SUMMARY SHEET

AA B/Pr 73802

TOTAL NUMBER OF___
____ OWNERSHIPS
____ TOTAL TAKES
____ OWNERSHIPS WITH STRUCTURES INVOLVED
____ OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC. BY RRC DATE 5-1-80
CHKD. BY EHC DATE 1-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

342
362
17
37

RIGHT OF WAY PLANS
LIMITED ACCESS

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
141-WL	FRANK J. MANGANO	31	1436	408	23,400	0	23,400	0	23,400	Yes	0	0				
142 THRU 144	NOT USED															
145-WL	ROSS D. WILLIAMSON A.K.A. ROSS DAVID WILLIAMSON	32	1162 1388 1424	645 754 785	2,945	0	2,945	0	2,945	YES	0	0			83-15	980
146&147	NOT USED															
148-WL	PAULA J. SPAHR	32	1219	208	1,690	0	1,690	0	1,690	YES	0	0			83-10	376
149-WL	MARIE H. TWEED	32	1436	397	1,309	0	1,309	0	1,309	YES	0	0			1539	532
150-WL	GUSTAVUS BURGESS, A.K.A. GUSTAVIUS BURGESS	32	495 649	49 182	1,980	0	1,980	0	1,980	YES	0	0			83-7	218
151-WL	MARY A. CARROLL	32	1306	97	4,160	0	4,160	0	4,160	YES	0	0			83-13	133
152-WL	WILLIAM J. MAGILL AND MARY JEAN MAGILL	32	950	29	5,524	0	5,524	0	5,524	YES	0	0			83-10	960
153-WL	RICHARD J. BRYER AND GERALDINE A. BRYER	32	1339	186	2,388	0	2,388	0	2,388	YES	0	0			1551	857
154-WL	GUSTAVUS BURGESS, A.K.A. GUSTAVIUS BURGESS	32	649	181	432	0	432	0	432	YES	0	0			83-7	215
155-WL	C. GLEN MCGAFFIC	32	1463	796	955	0	955	0	955	YES	0	0	S		1553	453
156	NOT USED												D			
157-WL	THE OHIO POWER COMPANY, AN OHIO CORPORATION	31	442 539 613	489 180 46	23,400	0	7,200	0	7,200	NO	16,200	0	N			
158-WL	MARY JEAN MAGILL	32	1120	45	2,016	0	2,016	0	2,016	YES	0	0	U		83-8	130
159&160	NOT USED												E			
161-WL	DONNA JEAN NALLY AND KENNETH PAUL RAYL	35	1304	437	2,400	0	2,400	0	2,400	YES	0	0			O.R.V. 21	656
162-WL	WILLIAM THOMAS GRAHAM	35	1325	118	1,600	0	1,600	0	1,600	YES	0	0	T		1388	461
163-WL * 163-U	MARIE H. TWEED	35 35	1394	111&114	3,900	0	300 300	0	300 300	NO	3,600	0		EASEMENT FOR WATERLINE AND SANITARY SEWER		
164-WL * 164-U	JACQUELINE E. CASTO, A.K.A. JACQUELINE CASTO	35 35	1549 1551	405 32	7,800	0	600 600	0	600 600	NO	7,200	0		EASEMENT FOR WATERLINE AND SANITARY SEWER		
165-WL	JAMES A. MOORE	34, 35	1278	715	15,600	0	15,600	0	15,600	YES	0	0				
166-WL	HARVEY N. MCHENRY, LOUISE L. BELL AND HEIRS OF ALEXINA MCHENRY, DECEASED	34, 35	533 1091	114 253	5,820	0	5,820	0	5,820	YES	0	0			83-5	606
167-WL	CITY OF EAST LIVERPOOL, OHIO	34	375	295	23,400	0	23,400	0	23,400	YES	0	0			83-2	809
168	NOT USED															
169-WL	CITY OF EAST LIVERPOOL, OHIO	34	1081	625	5,304	0	5,304		5,304	YES	0	0			83-13	121
170-WL 170-T	JAMES T. TAYLOR AND EVELYN A TAYLOR, N.K.A. EVELYN A. ARKADION	35 35	1345	325	5,130	0	1,050 4,080	0	1,050 4,080	YES	4,080	0		REMOVE STRUCTURE	1523 1523	258 760
171-WL * 171-U 171-T 171-E	DOROTHY ADAMS	35 35 35 35	1525	756	2,670	0	400 307 1,250 2,270	0	400 307 1,250 2,270	YES	2,270	0		EASEMENT FOR WATERLINE & SANITARY SEWER REMOVE STRUCTURE (171-T OVERLAPS THE AREA OF 171-U)		
172	NOT USED															

* UTILITY EASEMENTS PURCHASED FOR THE CITY OF EAST LIVERPOOL, OHIO

NOTE:
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NOTE:
AREA CALCULATED UNLESS OTHERWISE NOTED. ALL AREAS LISTED ARE IN SQUARE FEET UNLESS OTHERWISE INDICATED.

PLAN COMPLETED - 2-9-84

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

AA B/Pe 73302

TOTAL NUMBER OF___
___ OWNERSHIPS
___ TOTAL TAKES
___ OWNERSHIPS WITH STRUCTURES INVOLVED
___ OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC. BY RRC DATE 5-1-80
CHKD. BY EHC DATE 2-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

343 / 362 / 18 / 37

RIGHT OF WAY PLANS
LIMITED ACCESS

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
173-WL	ALICE CATHERINE BEANE BANKS	35	874	38	6,890	0	1,855	0	1,855	YES	5,035	0			1394	477
173-T	(FOR PARCEL 173A-U SEE SHEET No. 19)	35	894	591			1,060		1,060					REMOVE STRUCTURE (173-T OVERLAPS THE AREA OF 173-U)		
174-WL	HARRY Y. GEORGE	35	1169	491	8,710	0	2,680	0	2,680	YES	6,030	0			1523	360
*174-U		35					670		670					EASEMENT FOR WATERLINE & SANITARY SEWER		
174-T		35					1,005		1,005					REMOVE STRUCTURE (174-T OVERLAPS THE AREA OF 174-U)		
175-WL	BEATRICE B. DAVIDSON	34, 35	1307	244	2,912	0	2,912	0	2,912	YES	0	0			83-10	708
176-WL	ORIN C. SMITH, JR.	34, 35	1293	246	2,788	0	2,788	0	2,788	YES	0	0			1384	119
177-WL	CITY OF EAST LIVERPOOL, OHIO	34	1500	782	2,100	0	2,100	0	2,100	YES	0	0			83-2	819
178-WL	FRANK L. POTTS	34, 35	1151	187	11,700	0	11,700	0	11,700	YES	0	0			1339	361
			1278	250												
179-WL	FRANK WILLIAM HANCOCK	34, 35	1194	61	3,900	0	3,900	0	3,900	YES	0	0			1549	869
180-SA	KENT STATE UNIVERSITY	37	1215	673	20,165 ±	0	NO TAKE	0	NO TAKE	NO	20,165	0		(* TRACT 1) TO BUILD NEW PARTITION WALL IN EXISTING UNDERGROUND VAULT IN ACCORDANCE WITH CONSTRUCTION PLANS FOR THIS PROJECT.		
181-WL	ALVIN CROSSWHITE	34	785	577	2,599	0	2,599	0	2,599	YES	0	0			1373	491
182-WL	FRANK WILLIAM HANCOCK, A.K.A. FRANK W. HANCOCK	34	1160	173	11,267	0	11,267	0	11,267	YES	0	0			1549	872
			1194	61												
183-WL	RHODA C. JOHNSTON	34	1511	919	1,620	0	1,620	0	1,620	YES	0	0			83-7	266
184-WL	ECONOMY FURNITURE COMPANY, INC. AN OHIO CORPORATION	34	1226	401	1,290	0	1,290	0	1,290	YES	0	0	S		83-7	268
185-WL	AUDRA PEARL SEAKS	34	1339	761	1,320	0	1,320	0	1,320	YES	0	0	D		1529	923
186-WL	KENNETH AND ELMA BECKWITH	34	1227	604	1,980	0	1,980	0	1,980	YES	0	0	N		83-9	328
187 THRU 190 NOT USED													D			
191-WL	FRANK WILLIAM HANCOCK	37	578	209	2,600	0	2,600	0	2,600	YES	0	0	F		1549	875
			1194	61												
192-WL	HENRY H. DAVIES	37	483	53	2,584	0	2,584	0	2,584	YES	0	0	I		1410	854
193-WL	AMOS W. KAYLE	37	681	533	3,900	0	2,600	0	2,600	YES	1,300	0	D			
193-E		37	968	430&431			1,300	0	1,300							
194-WL	SCOTT A. OWEN	37	1511	639	1,950	0	450	0	450	NO	1,500	0				
*194-U		37					200	0	200					EASEMENT FOR WATERLINE		
195-WL	NATHAN AND RUTH CHAFINS	37	1446	893	1,950	0	1,950	0	1,950	YES	0	0			O.R.V. 21	653
196-WL	IRIS LISLE, A.K.A IRIS LISLE FERGUSON, A.K.A. IRIS FERGUSON	37	1033	466	6,251	0	6,251	0	6,251	YES	0	0			1379	485
197-WL	MORRIS FINEMAN	37	1411	820	3,892	0	3,892	0	3,892	YES	0	0			83-7	264
198-WL	MARY K. BETTERIDGE, KENNETH O. MCCAUGHTRY, AND JANE ANN EMMERLING	36, 37	1543	982	7,800	0	7,800	0	7,800	YES	0	0			83-11	968
199-WL	EDMOND R. BRAHAM AND VIOLET BRAHAM	36, 37	1362	426	3,900	0	3,900	0	3,900	YES	0	0			1392	263
200-WL	HAYS OIL COMPANY, AN OHIO CORPORATION	36, 37	1169	295	3,900	0	3,900	0	3,900	YES	0	0			83-9	322
			1169	395												
201-WL	INNTOWN MOTEL, INC., AN OHIO CORPORATION	36, 37	1177	35-45	15,600	0	15,600	0	15,600	YES	0	0			1368	123
202-WL	JOHN RICHARD WOOMER, JOHN KAY WOOMER AND MICHAEL J. PUSATERI	34, 36	1194	659	2,400	0	2,400	0	2,400	NO	0	0			83-8	511
203-WL	CITY OF EAST LIVERPOOL, OHIO	34, 36	1081	625	4,100	0	4,100	0	4,100	NO	0	0			83-2	811

* UTILITY EASEMENTS PURCHASED FOR THE CITY OF EAST LIVERPOOL, OHIO

NOTE:
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NOTE:
AREA CALCULATED UNLESS OTHERWISE NOTED. ALL AREAS LISTED ARE IN SQUARE FEET UNLESS OTHERWISE INDICATED.
PLAN COMPLETED - 2-9-84

REV.	DATE	DESCRIPTION
Dist. 11	6-27-84	Changed Par. 173-U to 173A-U

R/W SUMMARY SHEET

AA 11/Pe 73365

TOTAL NUMBER OF---
____ OWNERSHIPS
____ TOTAL TAKES
____ OWNERSHIPS WITH STRUCTURES INVOLVED
____ OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC. BY RRC DATE 5-1-80
CHKD. BY EHC DATE 5-10-84

COL-30-35.29
FED. PROJ. U-457(14)

OHIO
FHWA REGION 5

344 / 362
19 / 37

RIGHT OF WAY PLANS
LIMITED ACCESS

PARCEL	OWNER	SHEET Nº	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
204-WL	JOHN RICHARD WOOMER, JOHN RAY WOOMER AND MICHAEL J. PUSATERI	34, 36	1265	68	1,300	0	1,300	0	1,300	NO	0	0			83-8	514
205-WL	HEIRS OF GRAZIA, A.K.A., GRACE PALMISANO, GUS P. PALMISANO, MYRTLE W. PALMISANO, HEIRS OF LENA A. PALMISANO, GUSTINO GERACE, MARY FRICANO	33, 36	244 254 987 1502 1533	400 482 668 & 670 60 663	7,800	0	7,800	0	7,800	YES	0	0			83-9	326
206-WL	CHRISCON COMPANY, AN OHIO CORPORATION	36	1137	473	10,400	0	10,400	0	10,400	YES	0	0			83-13	116
207-WL	WILLIAM A. AND MILDRED PICKENS WOOLLEY	36	1072	68	4,000	0	4,000	0	4,000	NO	0	0			1553	638
208-WL	MILDRED MARIE PICKENS, N.K.A. MILDRED MARIE WOOLLEY	36	938	413	1,200	0	1,200	0	1,200	YES	0	0	S		1393	477
209-WL	MIKE PUSATERI EXCAVATING COMPANY, INC., AN OHIO CORPORATION	36	1481	957	6,302	0	6,302	0	6,302	YES	0	0	D		83-8	520
210-WL	EXXON CORPORATION, A NEW JERSEY CORPORATION	36	1114 1351	320 762	7,463	0	7,463	0	7,463	YES	0	0	N		1407	523
211-WL	CARMELLA GALIPO	36	964 964 1068	554 556 45	4,527	0	4,527	0	4,527	YES	0	0	U		1553	445
212 THRU 503 NOT USED													F			
504-WL	MICHAEL AND LUIS J. PUSATERI	36	1170	75	3,800	0	3,800	0	3,800	NO	0	0	I		83-8	517
505-WL	MARGARET JEFFRIES	36	647 1372	98 685 & 689	3,081	0	3,081	0	3,081	YES	0	0	U			
506-WL	COMMUNITY RESCUE MISSION, INC., AN OHIO CORPORATION	36	1033 1037	27 70	7,086	0	7,086	0	7,086	YES	0	0				
507&508	NOT USED															
509-PR	MICHAEL J. PUSATERI AND LOIS J. PUSATERI	33, 34	1333	526 & 528	5,520	0	NO TAKE		NO TAKE	NO	0	5,520		LOSS OF FRONTAL ACCESS TO SECOND ST.		
510-WD	CLEVELAND AND PITTSBURGH RAILROAD COMPANY	33, 34	269	402	3,510	0	2,760	0	2,760	NO	0	750				
511-PR 511-E	MICHAEL J. PUSATERI	33, 34, 36	1228	360	10,873	0	NO TAKE 10,873	0	NO TAKE 10,873	YES	0	10,873 L.L.		LOSS OF FRONTAL ACCESS TO SECOND ST.		
512-PR 512-E	ALBERT D. AND SHIRLEY M. GREEN	33, 36	~~1473~~	~~161~~	3,596	0	NO TAKE 3,596	0	NO TAKE 3,596	YES	0	3,596 L.L.		LOSS OF FRONTAL ACCESS TO SECOND ST.		
* 173A-U	BARBARA C. MOORE a.k.a. BARBARA C. BANKS MOORE aka. BARBARA CATHERINE BANKS MOORE	35	42	671 & 673	5,035	0	320	0	320	NO	5035	0		EASEMENT FOR WATERLINE & SANITARY SEWER		

* UTILITY EASEMENTS PURCHASED FOR THE CITY OF EAST LIVERPOOL, OHIO.

L.L. - INDICATES LANDLOCKED RESIDUE

NOTE:
THE SUM OF THE NET RESIDUE PLUS THE NET TAKE WILL EQUAL THE RECORD AREA, LESS THE TOTAL P.R.O.

NOTE:
AREA CALCULATED UNLESS OTHERWISE NOTED. ALL AREAS LISTED ARE IN SQUARE FEET UNLESS OTHERWISE INDICATED.

PLAN COMPLETED - 2-9-84

REV.	DATE	DESCRIPTION
Dist. 11	6-27-84	Added Par. 173A-U
Dist. 11	2-28-84	Revised Ownership on Parcel 512-PR.

R/W SUMMARY SHEET

STATE JOB No.	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

345/362

20/37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

PARCEL NO. 1-WL

PT. TO PT.	BEARING	DISTANCE
3935-3941	S 22 40 9 W	30.59
3941-8896	N 45 04 31	3.23
8896-8897	S 22 40 09 W	30.14
8897-4129	N 67 23 34 W	35.00
4129-3940	N 22 40 9 E	59.50
3940-3935	S 67 23 34 E	38.00

AREA = 0.0499 AC. = 2173 S.F.

PARCEL NO. 2-WL

PT. TO PT.	BEARING	DISTANCE
3937-3944	S 22 40 9 W	41.67
3944-3943	N 67 23 34 W	30.00
3943-4132	S 22 40 9 W	88.33
4132-4131	N 67 23 34 W	27.00
4131-3935	N 22 40 9 E	130.00
3935-3937	S 67 23 34 E	57.00

AREA = 0.1093 AC. = 4760 S.F.

PARCEL NO. 3-WL

PT. TO PT.	BEARING	DISTANCE
3938-3933	S 22 40 9 W	130.00
3933-3934	N 67 23 34 W	30.00
3934-3937	N 22 40 9 E	130.00
3937-3936	S 67 23 34 E	30.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 4-WL

PT. TO PT.	BEARING	DISTANCE
3939-3932	S 22 40 9 W	130.00
3932-3933	N 67 23 34 W	30.00
3933-3938	N 22 40 9 E	130.00
3938-3939	S 67 23 34 E	30.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 5-WL

PT. TO PT.	BEARING	DISTANCE
3964-3965	N 22 40 9 E	22.50
3965-3968	S 67 23 34 E	35.00
3968-3969	S 22 40 9 W	22.50
3969-3964	N 67 23 34 W	35.00

AREA = 0.0181 AC. = 787 S.F.

PARCEL NO. 6-WL

PT. TO PT.	BEARING	DISTANCE
3963-3964	N 22 40 9 E	47.50
3964-3969	S 67 23 34 E	35.00
3969-3962	S 22 40 9 W	47.50
3962-3963	N 67 23 34 W	35.00

AREA = 0.0382 AC. = 1662 S.F.

PARCEL NO. 7-WL

PT. TO PT.	BEARING	DISTANCE
3962-4189	N 22 40 9 E	82.63
4189-4190	S 55 40 13 E	25.53
4190-3961	S 22 40 9 W	77.45
3961-3962	N 67 23 34 W	25.00

AREA = 0.0459 AC. = 2001 S.F.

PARCEL NO. 7-WD

PT. TO PT.	BEARING	DISTANCE
4181-4182	N 67 23 34 E	25.00
4182-4190	S 22 40 9 W	52.55
4190-4189	N 55 40 13 W	25.53
4189-4181	N 22 40 9 E	47.37

AREA = 0.0287 AC. = 1249 S.F.

PARCEL NO. 8-WL

PT. TO PT.	BEARING	DISTANCE
3961-4190	N 22 40 9 E	77.45
4190-4191	S 55 40 13 E	30.63
4191-3960	S 22 40 9 W	71.22
3960-3961	N 67 23 34 W	30.00

AREA = 0.0512 AC. = 2230 S.F.

PARCEL NO. 8-WD

PT. TO PT.	BEARING	DISTANCE
4182-4183	S 67 23 34 E	30.00
4183-4191	S 22 40 9 W	58.78
4191-4190	N 55 40 13 W	30.63
4190-4182	N 22 40 9 E	52.55

AREA = 0.0383 AC. = 1670 S.F.

PARCEL NO. 9-WL

PT. TO PT.	BEARING	DISTANCE
3960-4191	N 22 40 9 E	71.22
4191-3970	S 55 40 13 E	30.63
3970-3959	S 22 40 9 W	65.00
3959-3960	N 67 23 34 W	30.00

AREA = 0.0469 AC. = 2043 S.F.

PARCEL NO. 9-WD

PT. TO PT.	BEARING	DISTANCE
4183-4184	S 67 23 34 E	30.00
4184-3970	S 22 40 9 W	65.00
3970-4191	N 55 40 13 W	30.63
4191-4183	N 22 40 9 E	58.78

AREA = 0.0426 AC. = 1857 S.F.

PARCEL NO. 10-WL

PT. TO PT.	BEARING	DISTANCE
3959-3970	N 22 40 9 E	65.00
3970-3972	S 67 23 34 E	30.00
3972-3958	S 22 40 9 W	65.00
3958-3959	N 67 23 34 W	30.00

AREA = 0.0448 AC. = 1950 S.F.

PARCEL NO. 11-WL

PT. TO PT.	BEARING	DISTANCE
3956-3958	N 67 23 34 W	90.00
3958-4197	N 22 40 9 E	58.78
4197-4199	S 58 41 19 E	91.03
4199-3956	S 22 40 9 W	45.00

AREA = 0.1072 AC. = 4670 S.F.

PARCEL NO. 11-U

PT. TO PT.	BEARING	DISTANCE
4199-4197	N 58 41 19 W	91.03
4197-4187	N 22 40 9 E	15.22
4187-4188	S 55 38 2 E	43.91
4188-4240	S 64 53 39 E	47.04
4240-4199	S 22 40 9 W	18.00

AREA = 0.0305 AC. = 1328 S.F.

PARCEL NO. 13-WL

PT. TO PT.	BEARING	DISTANCE
2485-2484	S 67 23 34 E	22.70
2484-2487	S 22 40 9 W	65.00
2487-2486	N 67 23 34 W	22.70
2486-2485	N 22 40 9 E	65.00

AREA = 0.0339 AC. = 1475 S.F.

PARCEL NO. 14-WL

PT. TO PT.	BEARING	DISTANCE
2483-2488	S 22 40 9 W	65.00
2488-2487	N 67 23 34 W	37.30
2487-2484	N 22 40 9 E	65.00
2484-2483	S 67 23 34 E	37.30

AREA = 0.0557 AC. = 2424 S.F.

PARCEL NO. 15-WL

PT. TO PT.	BEARING	DISTANCE
2483-2482	S 67 23 34 E	30.00
2482-2490	S 22 40 9 W	70.00
2490-2489	N 67 23 34 W	30.00
2489-2483	N 22 40 9 E	70.00

AREA = 0.0482 AC. = 2100 S.F.

PARCEL NO. 16-WL

PT. TO PT.	BEARING	DISTANCE
2481-2491	S 22 40 9 W	70.00
2491-2490	N 67 23 34 W	30.00
2490-2482	N 22 40 9 E	70.00
2482-2481	S 67 23 34 E	30.00

AREA = 0.0482 AC. = 2100 S.F.

PARCEL NO. 17-WL

PT. TO PT.	BEARING	DISTANCE
2481-2479	S 67 23 34 E	60.00
2479-2497	S 22 40 9 W	130.00
2497-2492	N 67 23 34 W	60.00
2492-2481	N 22 40 9 E	130.00

AREA = 0.1791 AC. = 7800 S.F.

PARCEL NO. 19-WL

PT. TO PT.	BEARING	DISTANCE
2479-2478	S 67 23 34 E	60.00
2478-2500	S 22 40 9 W	69.25
2500-2501	N 67 23 34 W	30.00
2501-2498	S 22 40 9 W	60.75
2498-2497	N 67 23 34 W	30.00
2497-2479	N 22 40 9 E	130.00

AREA = 0.1372 AC. = 5977 S.F.

PARCEL NO. 20-WL

PT. TO PT.	BEARING	DISTANCE
2493-2486	N 22 40 9 E	65.00
2486-2488	S 67 23 34 E	60.00
2488-2489	S 22 40 10 W	5.00
2489-2491	S 67 23 34 E	60.00
2491-2492	S 22 40 9 W	60.00
2492-2493	N 67 23 34 W	120.00

AREA = 0.1722 AC. = 7500 S.F.

PARCEL NO. 21-WL

PT. TO PT.	BEARING	DISTANCE
2499-2498	N 67 23 34 W	30.00
2498-2501	N 22 40 9 E	60.75
2501-2500	S 67 23 34 E	30.00
2500-2499	S 22 40 9 W	60.75

AREA = 0.0418 AC. = 1822 S.F.

PARCEL NO. 22-WL

PT. TO PT.	BEARING	DISTANCE
2502-2552	S 22 40 9 W	104.00
2552-2553	N 43 18 21 W	254.82
2553-2502	S 67 23 34 E	232.75

AREA = 0.2778 AC. = 12102 S.F.

PARCEL NO. 23-WL

PT. TO PT.	BEARING	DISTANCE
3975-8898	N 22 40 9 E	63.08
8898-3993	S 67 23 34 E	28.50
3993-3991	S 22 40 9 W	63.08
3991-3975	N 67 23 34 W	28.50

AREA = 0.0413 AC. = 1798 S.F.

PARCEL NO. 24-WL

PT. TO PT.	BEARING	DISTANCE
3990-3991	N 67 23 34 W	34.50
3991-3993	N 22 40 9 E	63.08
3993-3994	S 67 23 34 E	34.50
3994-3990	S 22 40 9 W	63.08

AREA = 0.0500 AC. = 2176 S.F.

PARCEL NO. 25-WL

PT. TO PT.	BEARING	DISTANCE
3990-4204	N 22 40 9 E	41.06
4204-4205	S 63 48 58 E	27.05
4205-3989	S 22 40 9 W	39.37
3989-3990	N 67 23 34 W	27.00

AREA = 0.0249 AC. = 1086 S.F.

PARCEL NO. 25-U

PT. TO PT.	BEARING	DISTANCE
4204-4211	N 22 40 9 E	10.02
4211-4212	S 63 48 58 E	27.05
4212-4205	S 22 40 9 W	10.02
4205-4204	N 63 48 58 W	27.05

AREA = 0.0062 AC. = 271 S.F.

PARCEL NO. 25-T

PT. TO PT.	BEARING	DISTANCE
4204-3995	N 22 40 9 E	48.94
3995-3996	S 67 23 34 E	27.00
3996-4205	S 22 40 9 W	50.63
4205-4204	N 63 48 58 W	27.05

AREA = 0.0309 AC. = 1344 S.F.

PARCEL NO. 26-WL

PT. TO PT.	BEARING	DISTANCE
3989-4205	N 22 40 9 E	39.37
4205-4206	S 63 48 58 E	30.06
4206-3988	S 22 40 9 W	37.50
3988-3989	N 67 23 34 W	30.00

AREA = 0.0265 AC. = 1153 S.F.

PARCEL NO. 26-U

PT. TO PT.	BEARING	DISTANCE
4205-4212	N 22 40 9 E	10.02
4212-4213	S 63 48 58 E	30.06
4213-4206	S 22 40 9 W	10.02
4206-4205	N 63 48 58 W	30.06

AREA = 0.0069 AC. = 301 S.F.

PARCEL NO. 26-T

PT. TO PT.	BEARING	DISTANCE
4205-4217	N 22 40 9 E	55.63
4217-4218	S 67 23 34 E	30.00
4218-4206	S 22 40 9 W	57.50
4206-4205	N 63 48 58 W	30.06

AREA = 0.0390 AC. = 1697 S.F.

PARCEL NO. 26-E (SEE SHEET 22)

PARCEL NO. 27-WL

PT. TO PT.	BEARING	DISTANCE
3988-4206	N 22 40 9 E	37.50
4206-4207	S 63 48 58 E	30.06
4207-3987	S 22 40 9 W	35.62
3987-3988	N 67 23 34 W	30.00

AREA = 0.0252 AC. = 1097 S.F.

PARCEL NO. 27-U

PT. TO PT.	BEARING	DISTANCE
4206-4213	N 22 40 9 E	10.02
4213-4214	S 63 48 58 E	30.06
4214-4207	S 22 40 9 W	10.02
4207-4206	N 63 48 58 W	30.06

AREA = 0.0069 AC. = 301 S.F.

PARCEL NO. 27-T

PT. TO PT.	BEARING	DISTANCE
4206-4219	N 22 40 9 E	42.50
4219-4220	S 67 23 34 E	30.00
4220-4207	S 22 40 9 W	44.38
4207-4206	N 63 48 58 W	30.06

AREA = 0.0299 AC. = 1303 S.F.

PARCEL NO. 27-E (SEE SHEET 22)

PARCEL NO. 28-WL

PT. TO PT.	BEARING	DISTANCE
3987-4207	N 22 40 9 E	35.62
4207-4208	S 63 48 58 E	30.06
4208-3986	S 22 40 9 W	33.75
3986-3987	N 67 23 34 W	30.00

AREA = 0.0239 AC. = 1041 S.F.

PARCEL NO. 28-U

PT. TO PT.	BEARING	DISTANCE
4207-4214	N 22 40 9 E	10.02
4214-4215	S 63 48 58 E	30.06
4215-4208	S 22 40 9 W	10.02
4208-4207	N 63 48 58 W	30.06

AREA = 0.0069 AC. = 301 S.F.

PARCEL NO. 28-T

PT. TO PT.	BEARING	DISTANCE
4207-4220	N 22 40 9 E	44.38
4220-4221	S 67 23 34 E	30.00
4221-4208	S 22 40 9 W	46.25
4208-4207	N 63 48 58 W	30.06

AREA = 0.0312 AC. = 1359 S.F.

PARCEL NO. 28-E (SEE SHEET 22)

PARCEL NO. 29-WL

PT. TO PT.	BEARING	DISTANCE
3985-3986	N 67 23 34 W	60.00
3986-4208	N 22 40 9 E	33.75
4208-4203	S 63 48 58 E	60.11
4203-3985	S 22 40 9 W	30.00

AREA = 0.0439 AC. = 1912 S.F.

PARCEL NO. 29-U

PT. TO PT.	BEARING	DISTANCE
4203-4208	N 63 48 58 W	60.11
4208-4215	N 22 40 9 E	10.02
4215-4216	S 63 48 58 E	60.11
4216-4203	S 22 40 9 W	10.02

AREA = 0.0138 AC. = 601 S.F.

PARCEL NO. 30-WL

PT. TO PT.	BEARING	DISTANCE
2503-2929	S 67 23 34 E	60.00
2929-2937	S 22 40 9 W	73.50
2937-2936	N 67 23 34 W	60.00
2936-2503	N 22 40 9 E	73.50

AREA = 0.1012 AC. = 4410 S.F.

PARCEL NO. 31-WL

PT. TO PT.	BEARING	DISTANCE
2930-2940	S 22 40 9 W	70.00
2940-2939	N 67 23 34 W	30.00
2939-2929	N 22 40 9 E	70.00
2929-2930	S 67 23 34 E	30.00

AREA = 0.0482 AC. = 2100 S.F.

PARCEL NO. 32-WL

PT. TO PT.	BEARING	DISTANCE
2804-2936	N 22 40 9 E	36.00
2936-2937	S 67 23 34 E	60.00
2937-2938	S 22 40 9 W	36.00
2938-2804	N 67 23 34 W	60.00

AREA = 0.0496 AC. = 2160 S.F.

PARCEL NO. 33-WL

PT. TO PT.	BEARING	DISTANCE
2952-2939	N 22 40 9 E	60.00
2939-2940	S 67 23 34 E	30.00
2940-2951	S 22 40 9 W	60.00
2951-2952	N 67 23 34 W	30.00

AREA = 0.0413 AC. = 1800 S.F.

PARCEL NO. 34-WL

PT. TO PT.	BEARING	DISTANCE
2931-2950	S 22 40 9 W	130.00
2950-2951	N 67 23 34 W	30.00
2951-2930	N 22 40 9 E	130.00
2930-2931	S 67 23 34 E	30.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 35-WL

PT. TO PT.	BEARING	DISTANCE
2931-2932	S 67 23 34 E	30.00
2932-2949	S 22 40 9 W	130.00
2949-2950	N 67 23 34 W	30.00
2950-2931	N 22 40 9 E	130.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 36-WL

PT. TO PT.	BEARING	DISTANCE
2933-2968	S 22 40 9 W	130.00
2968-2949	N 67 23 34 W	30.00
2949-2932	N 22 40 9 E	130.00
2932-2933	S 67 23 34 E	30.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 37-WL

PT. TO PT.	BEARING	DISTANCE
2933-2934	S 67 23 34 E	33.00
2934-2942	S 22 40 9 W	88.00
2942-2941	N 67 23 34 W	33.00
2941-2933	N 22 40 9 E	88.00

AREA = 0.0667 AC. = 2904 S.F.

PARCEL NO. 38-WL

PT. TO PT.	BEARING	DISTANCE
2935-2944	S 22 40 9 W	86.00
2944-2943	N 67 23 34 W	27.00
2943-2934	N 22 40 9 E	86.00
2934-2935	S 67 23 34 E	27.00

AREA = 0.0533 AC. = 2322 S.F.

PARCEL NO. 39-WL

PT. TO PT.	BEARING	DISTANCE
2504-2804	N 22 40 9 E	20.50
2804-2938	S 67 23 34 E	60.00
2938-2952	S 22 40 9 W	20.50
2952-2504	N 67 23 34 W	60.00

AREA = 0.0282 AC. = 1230 S.F.

PARCEL NO. 40-WL

PT. TO PT.	BEARING	DISTANCE
2968-2941	N 22 40 9 E	42.00
2941-2942	S 67 23 34 E	33.00
2942-2948	S 22 40 9 W	24.00
2948-2947	N 67 23 34 W	1.50
2947-2946	S 22 40 9 W	18.00
2946-2968	N 67 23 34 W	31.50

AREA = 0.0312 AC. = 1359 S.F.

PARCEL NO. 41-WL

PT. TO PT.	BEARING	DISTANCE
2945-2946	N 67 23 34 W	28.50
2946-2947	N 22 40 9 E	18.00
2947-2948	S 67 23 34 E	1.50
2948-2943	N 22 40 9 E	26.00
2943-2944	S 67 23 34 E	27.00
2944-2945	S 22 40 9 W	44.00

AREA = 0.0279 AC. = 1215 S.F.

PARCEL NO. 42-WL

PT. TO PT.	BEARING	DISTANCE
2953-2954	S 67 23 34 E	40.00
2954-2967	S 22 40 9 W	36.00
2967-2966	N 67 23 34 W	40.00
2966-2953	N 22 40 9 E	36.00

AREA = 0.0331 AC. = 1440 S.F.

PARCEL NO. 43-WL

PT. TO PT.	BEARING	DISTANCE
2955-2544	S 22 40 9 W	110.00
2544-2543	N 43 53 24 W	65.40
2543-2966	N 22 40 9 E	47.92
2966-2967	S 67 23 34 E	40.00
2967-2954	N 22 40 9 E	36.00
2954-2955	S 67 23 34 E	20.00

AREA = 0.1005 AC. = 4378 S.F.

PARCEL NO. 44-WL

PT. TO PT.	BEARING	DISTANCE
2955-2956	S 67 23 34 E	60.00
2956-2965	S 22 40 9 W	130.00
2965-2549	N 67 23 34 W	13.99
2549-2544	N 43 53 24 W	50.15
2544-2955	N 22 40 9 E	110.00

AREA = 0.1685 AC. = 7340 S.F.

PARCEL NO. 45-WL

PT. TO PT.	BEARING	DISTANCE
2957-2964	S 22 40 9 W	130.00
2964-2965	N 67 23 34 W	26.00
2965-2956	N 22 40 9 E	130.00
2956-2957	S 67 23 34 E	26.00

AREA = 0.0776 AC. = 3380 S.F.

PARCEL NO. 46-WL

PT. TO PT.	BEARING	DISTANCE
2957-2958	S 67 23 34 E	25.00
2958-2963	S 22 40 9 W	130.00
2963-2964	N 67 23 34 W	25.00
2964-2957	N 22 40 9 E	130.00

AREA = 0.0746 AC. = 3250 S.F.

PARCEL NO. 47-WL

PT. TO PT.	BEARING	DISTANCE
2958-2959	S 67 23 34 E	36.00
2959-2962	S 22 40 9 W	130.00
2962-2963	N 67 23 34 W	36.00
2963-2958	N 22 40 9 E	130.00

AREA = 0.1074 AC. = 4680 S.F.

PARCEL NO. 48-WL

PT. TO PT.	BEARING	DISTANCE
2960-2961	S 22 40 9 W	130.00
2961-2962	N 67 23 34 W	33.00
2962-2959	N 22 40 9 E	130.00
2959-2960	S 67 23 34 E	33.00

AREA = 0.0985 AC. = 4290 S.F.

PARCEL NO. 50-WL

PT. TO PT.	BEARING	DISTANCE
3997-4222	N 22 40 9 E	30.00
4222-4225	S 62 51 17 E	60.18
4225-4011	S 22 40 9 W	25.24
4011-3997	N 67 23 34 W	60.00

AREA = 0.0380 AC. = 1657 S.F.

PARCEL NO. 50-U

PT. TO PT.	BEARING	DISTANCE
4222-4242	N 22 40 9 E	10.00
4242-4243	S 62 51 17 E	60.18
4243-4225	S 22 40 9 W	10.00
4225-4222	N 62 51 17 W	60.18

AREA = 0.0137 AC. = 600 S.F.

PARCEL NO. 50-T

PT. TO PT.	BEARING	DISTANCE
4222-4248	N 22 40 9 E	20.00
4248-4246	S 67 23 34 E	25.00
4246-4245	N 22 40 9 E	15.00
4245-4234	S 67 23 34 E	35.00
4234-4225	S 22 40 9 W	39.76
4225-4222	N 62 51 17 W	60.18

AREA = 0.0429 AC. = 1868 S.F.

PARCEL NO. 51-WL

PT. TO PT.	BEARING	DISTANCE
4011-4225	N 22 40 9 E	25.24
4225-4226	S 62 51 17 E	30.09
4226-4010	S 22 40 9 W	22.86
4010-4011	N 67 23 34 W	30.00

AREA = 0.0166 AC. = 721 S.F.

PARCEL NO. 51-U

PT. TO PT.	BEARING	DISTANCE
4225-4243	N 22 40 9 E	10.00
4243-4244	S 62 51 17 E	30.09
4244-4226	S 22 40 9 W	10.00
4226-4225	N 62 51 17 W	30.09

AREA = 0.0069 AC. = 300 S.F.

PARCEL NO. 51-T

PT. TO PT.	BEARING	DISTANCE
4225-4233	N 22 40 9 E	49.76
4233-4235	S 67 23 34 E	30.00
4235-4226	S 22 40 9 W	52.14
4226-4225	N 62 51 17 W	30.09

AREA = 0.0351 AC. = 1528 S.F.

PARCEL NO. 52-WL

PT. TO PT.	BEARING	DISTANCE
4010-4226	N 22 40 9 E	22.86
4226-4223	S 62 51 17 E	36.11
4223-4009	S 22 40 9 W	20.00
4009-4010	N 67 23 34 W	36.00

AREA = 0.0177 AC. = 771 S.F.

PARCEL NO. 52-U

PT. TO PT.	BEARING	DISTANCE
4226-4244	N 22 40 9 E	10.00
4244-4229	S 62 51 17 E	36.11
4229-4223	S 22 40 9 W	10.00
4223-4226	N 62 51 17 W	36.11

AREA = 0.0083 AC. = 360 S.F.

PARCEL NO. 52-T

PT. TO PT.	BEARING	DISTANCE
4226-4235	N 22 40 9 E	52.14
4235-4236	S 67 23 34 E	36.00
4236-4223	S 22 40 9 W	55.00
4223-4226	N 62 51 17 W	36.11

AREA = 0.0443 AC. = 1929 S.F.

PARCEL NO. 52-E (SEE SHEET 22)

PARCEL NO. 53-WL

PT. TO PT.	BEARING	DISTANCE
4009-4223	N 22 40 9 E	20.00
4223-4227	S 67 23 34 E	24.00
4227-4008	S 22 40 9 W	20.00
4008-4009	N 67 23 34 W	24.00

AREA = 0.0110 AC. = 480 S.F.

PARCEL NO. 53-U

PT. TO PT.	BEARING	DISTANCE
4223-4229	N 22 40 9 E	10.00
4229-4230	S 67 23 34 E	24.00
4230-4227	S 22 40 9 W	10.00
4227-4223	N 67 23 34 W	24.00

AREA = 0.0055 AC. = 240 S.F.

PARCEL NO. 53-T

PT. TO PT.	BEARING	DISTANCE
4223-4236	N 22 40 9 E	55.00
4236-4237	S 67 23 34 E	24.00
4237-4227	S 22 40 9 W	55.00
4227-4223	N 67 23 34 W	24.00

AREA = 0.0303 AC. = 1320 S.F.

PARCEL NO. 54-WL

PT. TO PT.	BEARING	DISTANCE
4008-4227	N 22 40 9 E	20.00
4227-4228	S 67 23 34 E	30.00
4228-4007	S 22 40 9 W	20.00
4007-4008	N 67 23 34 W	30.00

AREA = 0.0138 AC. = 600 S.F.

PARCEL NO. 54-U

PT. TO PT.	BEARING	DISTANCE
4227-4230	N 22 40 9 E	10.00
4230-4231	S 67 23 34 E	30.00
4231-4228	S 22 40 9 W	10.00
4228-4227	N 67 23 34 W	30.00

AREA = 0.0069 AC. = 300 S.F.

PARCEL NO. 54-T

PT. TO PT.	BEARING	DISTANCE
4227-4238	N 22 40 9 E	45.00
4238-4239	S 67 23 34 E	30.00
4239-4228	S 22 40 9 W	45.00
4228-4227	N 67 23 34 W	30.00

AREA = 0.0310 AC. = 1350 S.F.

PARCEL NO. 55-WL

PT. TO PT.	BEARING	DISTANCE
4006-4007	N 67 23 34 W	60.00
4007-4228	N 22 40 9 E	20.00
4228-4224	S 67 23 34 E	60.00
4224-4006	S 22 40 9 W	20.00

AREA = 0.0275 AC. = 1200 S.F.

PARCEL NO. 55-U

PT. TO PT.	BEARING	DISTANCE
4224-4228	N 67 23 34 W	60.00
4228-4231	N 22 40 9 E	10.00
4231-4232	S 67 23 34 E	60.00
4232-4224	S 22 40 9 W	10.00

AREA = 0.0138 AC. = 600 S.F.

PARCEL NO. 56-WL

PT. TO PT.	BEARING	DISTANCE
2124-2969	S 67 23 34 E	25.00
2969-2975	S 22 40 9 W	87.50
2975-2974	N 67 23 34 W	25.00
2974-2124	N 22 40 9 E	87.50

AREA = 0.0502 AC. = 2187 S.F.

PARCEL NO. 56A-WL

PT. TO PT.	BEARING	DISTANCE
2125-2974	N 22 40 9 E	42.50
2974-2975	S 67 23 34 E	25.00
2975-2987	S 22 40 9 W	42.50
2987-2125	N 67 23 34 W	25.00

AREA = 0.0244 AC. = 1062 S.F.

PARCEL NO. 57-WL

PT. TO PT.	BEARING	DISTANCE
2970-2986	S 22 40 9 W	130.00
2986-2987	N 67 23 34 W	35.00
2987-2969	N 22 40 9 E	130.00
2969-2970	S 67 23 34 E	35.00

AREA = 0.1045 AC. = 4550 S.F.

PARCEL NO. 58-WL

PT. TO PT.	BEARING	DISTANCE
2970-2971	S 67 23 34 E	30.00
2971-2985	S 22 40 9 W	130.00
2985-2986	N 67 23 34 W	30.00
2986-2970	N 22 40 9 E	130.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 59-WL

PT. TO PT.	BEARING	DISTANCE
2972-2984	S 22 40 9 W	130.00
2984-2985	N 67 23 34 W	30.00
2985-2971	N 22 40 9 E	130.00
2971-2972	S 67 23 34 E	30.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 60-WL

PT. TO PT.	BEARING	DISTANCE
2972-2973	S 67 23 34 E	28.00
2973-2977	S 22 40 9 W	66.00
2977-2976	N 67 23 34 W	28.00
2976-2972	N 22 40 9 E	66.00

AREA = 0.0424 AC. = 1848 S.F.

PARCEL NO. 61-WL

PT. TO PT.	BEARING	DISTANCE
2448-2979	S 22 40 9 W	76.58
2979-2978	N 67 23 34 W	32.00
2978-2973	N 22 40 9 E	76.58
2973-2448	S 67 23 34 E	32.00

AREA = 0.0563 AC. = 2451 S.F.

PARCEL NO. 62-WL

PT. TO PT.	BEARING	DISTANCE
2448-2446	S 67 23 34 E	30.15
2446-2445	S 22 28 33 W	37.00
2445-2444	S 22 40 9 W	33.00
2444-2447	N 67 23 34 W	30.27
2447-2448	N 22 40 9 E	70.00

AREA = 0.0486 AC. = 2117 S.F.

PARCEL NO. 63-WL

PT. TO PT.	BEARING	DISTANCE
2123-2443	S 22 40 9 W	70.00
2443-2444	N 67 23 34 W	29.73
2444-2445	N 22 40 9 E	33.00
2445-2446	N 22 28 33 E	37.00
2446-2123	S 67 23 34 E	29.85

AREA = 0.0478 AC. = 2083 S.F.

PARCEL NO. 64-WL

PT. TO PT.	BEARING	DISTANCE
3966-3967	S 67 23 34 E	35.00
3967-3968	S 22 40 9 W	25.00
3968-3965	N 67 23 34 W	35.00
3965-3966	N 22 40 9 E	25.00

AREA = 0.0201 AC. = 875 S.F.

PARCEL NO. 65-WL

PT. TO PT.	BEARING	DISTANCE
2983-2984	N 67 23 34 W	28.00
2984-2976	N 22 40 9 E	64.00
2976-2977	S 67 23 34 E	28.00
2977-2983	S 22 40 9 W	64.00

AREA = 0.0411 AC. = 1792 S.F.

PARCEL NO. 66-WL

PT. TO PT.	BEARING	DISTANCE
2982-2983	N 67 23 34 W	32.00
2983-2978	N 22 40 9 E	53.42
2978-2979	S 67 23 34 E	32.00
2979-2982	S 22 40 9 W	53.42

AREA = 0.0392 AC. = 1709 S.F.

PARCEL NO. 67-WL

PT. TO PT.	BEARING	DISTANCE
2122-2982	N 67 23 34 W	60.00
2982-2447	N 22 40 9 E	60.00
2447-2443	S 67 23 34 E	60.00
2443-2122	S 22 40 9 W	60.00

AREA = 0.0826 AC. = 3600 S.F.

PARCEL NO. 68-WD (SEE SHE

STATE JOB NO.	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

346/362

21/37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

PARCEL NO. 69-WL

PT. TO PT.	BEARING	DISTANCE
4088-4089	S 22 40 9 W	24.75
4089-4090	N 46 32 32 W	69.53
4090-4088	S 67 23 34 E	65.00

AREA = 0.0185 AC. = 804 S.F.

PARCEL NO. 71-WL

PT. TO PT.	BEARING	DISTANCE
2127-2995	N 22 40 9 E	105.00
2995-2996	S 67 23 34 E	30.00
2996-2994	S 22 40 9 W	105.00
2994-2127	N 67 23 34 W	30.00

AREA = 0.0723 AC. = 3150 S.F.

PARCEL NO. 72-WL

PT. TO PT.	BEARING	DISTANCE
2993-2994	N 67 23 34 W	30.00
2994-8899	N 22 40 9 E	90.00
8899-2997	S 67 23 34 E	30.00
2997-2993	S 22 40 9 W	90.00

AREA = 0.0620 AC. = 2700 S.F.

PARCEL NO. 73-WL

PT. TO PT.	BEARING	DISTANCE
2993-2997	N 22 40 9 E	90.00
2997-2998	S 67 23 34 E	33.00
2998-2988	N 22 40 9 E	40.00
2988-2989	S 67 23 34 E	27.00
2989-2992	S 22 40 9 W	130.00
2992-2993	N 67 23 34 W	60.00

AREA = 0.1488 AC. = 6480 S.F.

PARCEL NO. 74-WL

PT. TO PT.	BEARING	DISTANCE
2990-2991	S 22 40 9 W	130.00
2991-2992	N 67 23 34 W	60.00
2992-2989	N 22 40 9 E	130.00
2989-2990	S 67 23 34 E	60.00

AREA = 0.1791 AC. = 7800 S.F.

PARCEL NO. 75-WL

PT. TO PT.	BEARING	DISTANCE
2120-2991	N 67 23 34 W	60.00
2991-2990	N 22 40 9 E	130.00
2990-2121	S 67 23 34 E	60.00
2121-2120	S 22 40 9 W	130.00

AREA = 0.1791 AC. = 7800 S.F.

PARCEL NO. 76-WL

PT. TO PT.	BEARING	DISTANCE
2128-4084	S 67 23 34 E	33.00
4084-4082	S 22 40 9 W	38.98
4082-4083	N 52 35 59 W	34.12
4083-2128	N 22 40 9 E	30.27

AREA = 0.0262 AC. = 1143 S.F.

PARCEL NO. 77-WL

PT. TO PT.	BEARING	DISTANCE
4084-4085	S 67 23 34 E	33.00
4085-4081	S 22 40 9 W	47.69
4081-4082	N 52 35 59 W	34.12
4082-4084	N 22 40 9 E	38.98

AREA = 0.0328 AC. = 1430 S.F.

PARCEL NO. 78-WL

PT. TO PT.	BEARING	DISTANCE
4086-4080	S 22 40 9 W	57.00
4080-4081	N 52 35 59 W	36.45
4081-4085	N 22 40 9 E	47.69
4085-4086	S 67 23 34 E	35.25

AREA = 0.0424 AC. = 1845 S.F.

PARCEL NO. 79-WL

PT. TO PT.	BEARING	DISTANCE
4086-4087	S 67 23 34 E	40.00
4087-4078	S 22 40 9 W	60.50
4078-4091	N 55 56 28 W	1.00
4091-4079	S 22 40 9 W	7.00
4079-4080	N 52 35 59 W	40.35
4080-4086	N 22 40 9 E	57.00

AREA = 0.0570 AC. = 2485 S.F.

PARCEL NO. 80-WL

PT. TO PT.	BEARING	DISTANCE
29-4077	S 22 40 9 W	80.50
77-4078	N 55 56 28 W	100.73
8-4087	N 22 40 9 E	60.50
)-2129	S 67 23 34 E	98.75

= 0.1598 AC. = 6962 S.F.

PARCEL NO. 81-WD

	BEARING	DISTANCE
	N 22 40 9 E	20.00
	S 22 21 42 E	28.27
86	N 67 23 34 W	20.00

= 0.0046 AC. = 200 S.F.

PARCEL NO. 83-WL

PT. TO PT.	BEARING	DISTANCE
2126-2988	S 67 23 34 E	93.00
2988-2998	S 22 40 9 W	40.00
2998-8899	N 67 23 34 W	63.00
8899-2996	N 22 40 9 E	15.00
2996-2995	N 67 23 34 W	30.00
2995-2126	N 22 40 9 E	25.00

AREA = 0.0751 AC. = 3270 S.F.

PARCEL NO. 84-WD

PT. TO PT.	BEARING	DISTANCE
4184-4185	S 67 23 34 E	18.10
4185-4198	S 22 40 9 W	65.00
4198-3970	N 67 23 34 W	18.10
3970-4184	N 22 40 9 E	65.00

AREA = 0.0270 AC. = 1177 S.F.

PARCEL NO. 85-T

PT. TO PT.	BEARING	DISTANCE
8888-8894	N 22 40 9 E	15.00
8894-8895	S 67 23 34 E	60.00
8895-8890	S 22 40 9 W	15.00
8890-8888	N 67 23 34 W	60.00

AREA = 0.0207 AC. = 900 S.F.

PARCEL NO. 86-WD (SEE SHEET 22)

PARCEL NO. 87-WL

PT. TO PT.	BEARING	DISTANCE
1274-2999	S 67 23 34 E	90.00
2999-3009	S 22 40 9 W	130.00
3009-1324	N 67 23 34 W	90.00
1324-1274	N 22 40 9 E	130.00

AREA = 0.2686 AC. = 11700 S.F.

PARCEL NO. 88-WL

PT. TO PT.	BEARING	DISTANCE
3000-3011	S 22 40 9 W	87.86
3011-3010	N 67 23 34 W	30.00
3010-2999	N 22 40 9 E	87.86
2999-3000	S 67 23 34 E	30.00

AREA = 0.0605 AC. = 2636 S.F.

PARCEL NO. 89-WL

PT. TO PT.	BEARING	DISTANCE
3000-3001	S 67 23 34 E	15.00
3001-3007	S 22 40 9 W	130.00
3007-3008	N 67 23 34 W	15.00
3008-3000	N 22 40 9 E	130.00

AREA = 0.0448 AC. = 1950 S.F.

PARCEL NO. 90-WL

PT. TO PT.	BEARING	DISTANCE
3002-3006	S 22 40 9 W	130.00
3006-3007	N 67 23 34 W	15.00
3007-3001	N 22 40 9 E	130.00
3001-3002	S 67 23 34 E	15.00

AREA = 0.0448 AC. = 1950 S.F.

PARCEL NO. 91-WL

PT. TO PT.	BEARING	DISTANCE
3003-3005	S 22 40 9 W	130.00
3005-3006	N 67 23 34 W	30.00
3006-3002	N 22 40 9 E	130.00
3002-3003	S 67 23 34 E	30.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 92-WL

PT. TO PT.	BEARING	DISTANCE
3003-3004	S 67 23 34 E	30.00
3004-3013	S 22 40 9 W	70.00
3013-3012	N 67 23 34 W	30.00
3012-3003	N 22 40 9 E	70.00

AREA = 0.0482 AC. = 2100 S.F.

PARCEL NO. 93-WL

PT. TO PT.	BEARING	DISTANCE
1318-3014	S 22 40 9 W	70.00
3014-3013	N 67 23 34 W	30.00
3013-3004	N 22 40 9 E	70.00
3004-1318	S 67 23 34 E	30.00

AREA = 0.0482 AC. = 2100 S.F.

PARCEL NO. 94-WL

PT. TO PT.	BEARING	DISTANCE
3008-3009	N 67 23 34 W	30.00
3009-3010	N 22 40 9 E	42.14
3010-3011	S 67 23 34 E	30.00
3011-3008	S 22 40 9 W	42.14

AREA = 0.0290 AC. = 1264 S.F.

PARCEL NO. 95-WL

PT. TO PT.	BEARING	DISTANCE
3014-3016	S 22 40 9 W	30.00
3016-3015	N 67 23 34 W	60.00
3015-3012	N 22 40 9 E	30.00
3012-3014	S 67 23 34 E	60.00

AREA = 0.0413 AC. = 1800 S.F.

PARCEL NO. 96-WL

PT. TO PT.	BEARING	DISTANCE
1325-3005	N 67 23 34 W	60.00
3005-3015	N 22 40 9 E	30.00
3015-3016	S 67 23 34 E	60.00
3016-1325	S 22 40 9 W	30.00

AREA = 0.0413 AC. = 1800 S.F.

PARCEL NO. 97-WL

PT. TO PT.	BEARING	DISTANCE
3026-8900	N 22 40 9 E	37.30
8900-8901	S 67 23 34 E	60.00
8901-3025	S 22 40 9 W	37.30
3025-3026	N 67 23 34 W	60.00

AREA = 0.0514 AC. = 2238 S.F.

PARCEL NO. 98-WL

PT. TO PT.	BEARING	DISTANCE
1349-3026	N 22 40 9 E	70.00
3026-3024	S 67 23 34 E	52.00
3024-3023	S 22 40 9 W	70.00
3023-1349	N 67 23 34 W	52.00

AREA = 0.0836 AC. = 3640 S.F.

PARCEL NO. 99-WL

PT. TO PT.	BEARING	DISTANCE
3023-3024	N 22 40 9 E	70.00
3024-3025	S 67 23 34 E	8.00
3025-3017	N 22 40 9 E	60.00
3017-3018	S 67 23 34 E	30.00
3018-3022	S 22 40 9 W	130.00
3022-3023	N 67 23 34 W	38.00

AREA = 0.1024 AC. = 4460 S.F.

PARCEL NO. 100-WL

PT. TO PT.	BEARING	DISTANCE
3019-3022	N 67 23 34 W	30.00
3022-3021	N 22 40 9 E	76.00
3021-3020	S 67 23 34 E	30.00
3020-3019	S 22 40 9 W	76.00

AREA = 0.0523 AC. = 2280 S.F.

PARCEL NO. 101-WL

PT. TO PT.	BEARING	DISTANCE
1350-3019	N 67 23 34 W	120.00
3019-3020	N 22 40 9 E	76.00
3020-3021	N 67 23 34 W	30.00
3021-3018	N 22 40 9 E	54.00
3018-1337	S 67 23 34 E	150.00
1337-1350	S 22 40 9 W	130.00

AREA = 0.3953 AC. = 17220 S.F.

PARCEL NO. 102-WL

PT. TO PT.	BEARING	DISTANCE
1336-3017	S 67 23 34 E	60.00
3017-8901	S 22 40 9 W	22.70
8901-8900	N 67 23 34 W	60.00
8900-1336	N 22 40 9 E	22.70

AREA = 0.0313 AC. = 1362 S.F.

PARCEL NO. 112-WL

PT. TO PT.	BEARING	DISTANCE
1319-3027	S 67 23 34 E	39.00
3027-3040	S 22 40 9 W	69.00
3040-3039	N 67 23 34 W	39.00
3039-1319	N 22 40 9 E	69.00

AREA = 0.0618 AC. = 2691 S.F.

PARCEL NO. 113-WL

PT. TO PT.	BEARING	DISTANCE
3028-3041	S 22 40 9 W	69.00
3041-3040	N 67 23 35 W	21.00
3040-3027	N 22 40 9 E	69.00
3027-3028	S 67 23 34 E	21.00

AREA = 0.0333 AC. = 1449 S.F.

PARCEL NO. 114-WL

PT. TO PT.	BEARING	DISTANCE
3029-3035	S 22 40 9 W	130.00
3035-3036	N 67 23 34 W	60.00
3036-3028	N 22 40 9 E	130.00
3028-3029	S 67 23 34 E	60.00

AREA = 0.1791 AC. = 7800 S.F.

PARCEL NO. 115-WL

PT. TO PT.	BEARING	DISTANCE
3029-3030	S 67 23 34 E	30.00
3030-3043	S 22 40 9 W	65.00
3043-3042	N 67 23 34 W	30.00
3042-3029	N 22 40 9 E	65.00

AREA = 0.0448 AC. = 1950 S.F.

PARCEL NO. 116-WL

PT. TO PT.	BEARING	DISTANCE
1275-3032	S 22 40 9 W	130.00
3032-3035	N 67 23 34 W	60.00
3035-3042	N 22 40 9 E	65.00
3042-3043	S 67 23 34 E	30.00
3043-3030	N 22 40 9 E	65.00
3030-1275	S 67 23 34 E	30.00

AREA = 0.1343 AC. = 5850 S.F.

PARCEL NO. 117-WL

PT. TO PT.	BEARING	DISTANCE
3038-3039	N 22 40 9 E	31.00
3039-3041	S 67 23 34 E	60.00
3041-3037	S 22 40 9 W	31.00
3037-3038	N 67 23 34 W	60.00

AREA = 0.0427 AC. = 1860 S.F.

PARCEL NO. 118-WL

PT. TO PT.	BEARING	DISTANCE
1326-3038	N 22 40 9 E	30.00
3038-3037	S 67 23 34 E	60.00
3037-3036	S 22 40 9 W	30.00
3036-1326	N 67 23 34 W	60.00

AREA = 0.0413 AC. = 1800 S.F.

PARCEL NO. 119-WL

PT. TO PT.	BEARING	DISTANCE
1364-3031	S 22 40 9 W	42.00
3031-3033	N 67 23 34 W	60.00
3033-1363	N 22 40 9 E	42.00
1363-1364	S 67 23 34 E	60.00

AREA = 0.0579 AC. = 2520 S.F.

PARCEL NO. 120-WL

PT. TO PT.	BEARING	DISTANCE
1327-3032	N 67 23 34 W	60.00
3032-3033	N 22 40 9 E	28.00
3033-3031	S 67 23 34 E	60.00
3031-1327	S 22 40 9 W	28.00

AREA = 0.0386 AC. = 1680 S.F.

PARCEL NO. 121-WL

PT. TO PT.	BEARING	DISTANCE
1338-3044	S 67 23 34 E	30.00
3044-3055	S 22 40 9 W	46.85
3055-3054	N 67 23 34 W	30.00
3054-1338	N 22 40 9 E	46.85

AREA = 0.0323 AC. = 1405 S.F.

PARCEL NO. 122-WL

PT. TO PT.	BEARING	DISTANCE
3045-3046	S 67 23 34 E	30.00
3046-3057	S 22 40 9 W	45.00
3057-3056	N 67 23 34 W	30.00
3056-3045	N 22 40 9 E	45.00

AREA = 0.0310 AC. = 1350 S.F.

PARCEL NO. 122A-WL

PT. TO PT.	BEARING	DISTANCE
3061-3056	N 22 40 9 E	5.00
3056-3057	S 67 23 34 E	30.00
3057-3062	S 22 40 9 W	5.00
3062-3061	N 67 23 34 W	30.00

AREA = 0.0034 AC. = 150 S.F.

PARCEL NO. 123-WL

PT. TO PT.	BEARING	DISTANCE
3047-3048	S 67 23 34 E	54.00
3048-3060	S 22 40 9 W	43.45
3060-3059	N 67 23 34 W	54.00
3059-3047	N 22 40 9 E	43.45

AREA = 0.0539 AC. = 2346 S.F.

PARCEL NO. 124-WL

PT. TO PT.	BEARING	DISTANCE
1351-3054	N 22 40 9 E	83.15
3054-3055	S 67 23 34 E	30.00
3055-3053	S 22 40 9 W	83.15
3053-1351	N 67 23 34 W	30.00

AREA = 0.0573 AC. = 2494 S.F.

PARCEL NO. 125-WL

PT. TO PT.	BEARING	DISTANCE
3052-3053	N 67 23 34 W	30.00
3053-3044	N 22 40 9 E	130.00
3044-3045	S 67 23 34 E	30.00
3045-3052	S 22 40 9 W	130.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 126-WL

PT. TO PT.	BEARING	DISTANCE
3052-3061	N 22 40 9 E	80.00
3061-3062	S 67 23 34 E	30.00
3062-3051	S 22 40 9 W	80.00
3051-3052	N 67 23 34 W	30.00

AREA = 0.0551 AC. = 2400 S.F.

PARCEL NO. 127-WL

PT. TO PT.	BEARING	DISTANCE
3050-3051	N 67 23 34 W	30.00
3051-3057	N 22 40 9 E	85.00
3057-3058	S 67 23 34 E	30.00
3058-3050	S 22 40 9 W	85.00

AREA = 0.0585 AC. = 2550 S.F.

PARCEL NO. 128-WL

PT. TO PT.	BEARING	DISTANCE
3050-3059	N 22 40 9 E	86.55
3059-3060	S 67 23 34 E	54.00
3060-3049	S 22 40 9 W	86.55
3049-3050	N 67 23 34 W	54.00

AREA = 0.1073 AC. = 4674 S.F.

PARCEL NO. 129-WL

PT. TO PT.	BEARING	DISTANCE
1352-3049	N 67 23 34 W	66.00
3049-3048	N 22 40 9 E	130.00
3048-1339	S 67 23 34 E	66.00
1339-1352	S 22 40 9 W	130.00

AREA = 0.1970 AC. = 8580 S.F.

PARCEL NO. 130-WL

PT. TO PT.	BEARING	DISTANCE
3047-3058	S 22 40 9 W	45.00
3058-3057	N 67 23 34 W	30.00
3057-3046	N 22 40 9 E	49.00
3046-3047	S 67 23 34 E	30.00

AREA = 0.0310 AC. = 1350 S.F.

PARCEL NO. 136-WL

PT. TO PT.	BEARING	DISTANCE
1328-1365	N 22 40 9 E	70.00
1365-1366	S 67 23 34 E	60.00
1366-3070	S 22 40 9 W	70.00
3070-1328	N 67 23 34 W	60.00

AREA = 0.0964 AC. = 4200 S.F.

PARCEL NO. 137-WL

PT. TO PT.	BEARING	DISTANCE
1278-3063	S 67 23 34 E	60.00
3063-3069	S 22 40 9 W	130.00
3069-3070	N 67 23 34 W	60.00
3070-1278	N 22 40 9 E	130.00

AREA = 0.1791 AC. = 7800 S.F.

PARCEL NO. 138-WL

PT. TO PT.	BEARING	DISTANCE
3068-3069	N 67 23 34 W	20.50
3069-3063	N 22 40 9 E	130.00
3063-3071	S 67 23 34 E	20.50
3071-3068	S 22 40 9 W	130.00

AREA = 0.0612 AC. = 2665 S.F.

PARCEL NO. 139-WL

PT. TO PT.	BEARING	DISTANCE
3068-3071	N 22 40 9 E	130.00
3071-3064	S 67 23 34 E	21.83
3064-3065	S 22 40 9 W	33.50
3065-3066	N 67 23 34 W	1.42
3066-3067	S 22 40 9 W	96.50
3067-3068	N 67 23 34 W	20.42

AREA = 0.0620 AC. = 2701 S.F.

PARCEL NO. 140-WL

PT. TO PT.	BEARING	DISTANCE
1329-3067	N 67 23 34 W	19.08
3067-3066	N 22 40 9 E	96.50
3066-3065	S 67 23 34 E	1.42
3065-3064	N 22 40 9 E	33.50
3064-1320	S 67 23 34 E	17.67
1320-1329	S 22 40 9 W	130.00

AREA = 0.0559 AC. = 2434 S.F.

PARCEL NO. 141-WL

PT. TO PT.	BEARING	DISTANCE
1340-1341	S 67 23 34 E	180.00
1341-1354	S 22 40 9 W	130.00
1354-1353	N 67 23 34 W	180.00
1353-1340	N 22 40 9 E	130.00

AREA = 0.5372 AC. = 23400 S.F.

PARCEL NO. 145-WL

PT. TO PT.	BEARING	DISTANCE
1331-3089	N 67 23 34 W	31.50
3089-3091	N 22 40 9 E	33.50
3091-3090	N 67 23 34 W	28.50
3090-3079	N 22 40 9 E	31.50
3079-3080	S 67 23 34 E	60.00
3080-1331	S 22 40 9 W	65.00

AREA = 0.0676 AC. = 2945 S.F.

PARCEL NO. 148-WL

PT. TO PT.	BEARING	DISTANCE
1321-3072	S 67 23 34 E	33.81
3072-3077	S 22 40 9 W	50.00
3077-3076	N 67 23 34 W	33.81
3076-1321	N 22 40 9 E	50.00

AREA = 0.0388 AC. = 1690 S.F.

PARCEL NO. 149-WL

PT. TO PT.	BEARING	DISTANCE
3073-3078	S 22 40 9 W	50.00
3078-3077	N 67 23 34 W	26.19
3077-3072	N 22 40 9 E	50.00
3072-3073	S 67 23 34 E	26.19

AREA = 0.0301 AC. = 1309 S.F.

PARCEL NO. 150-WL

PT. TO PT.	BEARING	DISTANCE
3081-3076	N 22 40 9 E	33.00
3076-3078	S 67 23 34 E	60.00
3078-3082	S 22 40 9 W	33.00
3082-3081	N 67 23 34 W	60.00

AREA = 0.0455 AC. = 1980 S.F.

PARCEL NO. 151-WL

PT. TO PT.	BEARING	DISTANCE
3073-3074	S 67 23 34 E	32.00
3074-3087	S 22 40 9 W	130.00
3087-3086	N 67 23 34 W	32.00
3086-3073	N 22 40 9 E	130.00

AREA = 0.0955 AC. = 4160 S.F.

PARCEL NO. 152-WL

PT. TO PT.	BEARING	DISTANCE
1279-3094	S 22 40 9 W	31.40
3094-3093	N 67 23 34 W	60.00
3093-3088	S 22 40 9 W	98.60
3088-3087	N 67 23 34 W	28.00
3087-3074	N 22 40 9 E	130.00
3074-1279	S 67 23 34 E	88.00

AREA = 0.1268 AC. = 5524 S.F.

PARCEL NO. 153-WL

PT. TO PT.	BEARING	DISTANCE
1330-3081	N 22 40 9 E	47.00
3081-3082	S 67 23 34 E	60.00
3082-3083	S 22 40 9 W	29.00
3083-3084	N 67 23 34 W	24.00
3084-3085	S 22 40 9 W	18.00
3085-1330	N 67 23 34 W	36.00

AREA = 0.0548 AC. = 2388 S.F.

PARCEL NO. 154-WL

PT. TO PT.	BEARING	DISTANCE
3086-3085	N 67 23 34 W	24.00
3085-3084	N 22 40 9 E	18.00
3084-3083	S 67 23 34 E	24.00
3083-3086	S 22 40 9 W	18.00

AREA = 0.0099 AC. = 432 S.F.

PARCEL NO. 155-WL

PT. TO PT.	BEARING	DISTANCE
3088-3090	N 22 40 9 E	33.50
3090-3091	S 67 23 34 E	28.50
3091-3089	S 22 40 9 W	33.50
3089-3088	N 67 23 34 W	28.50

AREA = 0.0219 AC. = 955 S.F.

PARCEL NO. 157-WL

PT. TO PT.	BEARING	DISTANCE
1342-1343	S 67 23 34 E	180.00
1343-9026	S 22 40 9 W	40.00
9026-9025	N 67 23 34 W	180.00
9025-1342	N 22 40 9 E	40.00

AREA = 0.1653 AC. = 7200 S.F.

PARCEL NO. 158-WL

PT. TO PT.	BEARING	DISTANCE
3094-3080	S 22 40 9 W	33.60
3080-3079	N 67 23 34 W	60.00
3079-3093	N 22 40 9 E	33.60
3093-3094	S 67 23 34 E	60.00

AREA = 0.0463 AC. = 2016 S.F.

PARCEL NO. 161-WL

PT. TO PT.	BEARING	DISTANCE
3144-4015	N 22 40 9 E	30.00
4015-4016	S 67 23 34 E	80.00
4016-3145	S 22 40 9 W	30.00
3145-3144	N 67 23 34 W	80.00

AREA = 0.0551 AC. = 2400 S.F.

PARCEL NO. 162-WL

PT. TO PT.	BEARING	DISTANCE
1270-3144	N 22 40 9 E	20.00
3144-3145	S 67 23 34 E	80.00
3145-3146	S 22 40 9 W	20.00
3146-1270	N 67 23 34 W	80.00

AREA = 0.0367 AC. = 1600 S.F.

PARCEL NO. 163-WL

PT. TO PT.	BEARING	DISTANCE
9771-9773	N 22 40 9 E	10.00
9773-9774	S 67 23 34 E	30.00
9774-9772	S 22 40 9 W	10.00
9772-9771	N 67 23 34 W	30.00

AREA = 0.0069 AC. = 300 S.F.

PARCEL NO. 163-U

PT. TO PT.	BEARING	DISTANCE
9773-9776	N 22 40 9 E	10.00
9776-9777	S 67 23 34 E	30.00
9777-9774	S 22 40 9 W	10.00
9774-9773	N 67 23 34 W	30.00

AREA = 0.0069 AC. = 300 S.F.

PARCEL NO. 164-WL

PT. TO PT.	BEARING	DISTANCE
9772-9774	N 22 40 9 E	10.00
9774-9775	S 67 23 34 E	60.00
9775-1316	S 22 40 9 W	10.00
1316-9772	N 67 23 34 W	60.00

AREA = 0.0138 AC. = 600 S.F.

PARCEL NO. 164-U

PT. TO PT.	BEARING	DISTANCE
9775-9774	N 67 23 34 W	60.00
9774-9777	N 22 40 9 E	10.00
9777-9778	S 67 23 34 E	60.00
9778-9775	S 22 40 9 W	10.00

AREA = 0.0138 AC. = 600 S.F.

PARCEL NO. 165-WL

PT. TO PT.	BEARING	DISTANCE
1280-4017	S 67 23 34 E	120.00
4017-4018	S 22 40 9 W	130.00
4018-1332	N 67 23 34 W	120.00
1332-1280	N 22 40 9 E	130.00

AREA = 0.3581 AC. = 15600 S.F.

PARCEL NO. 166-WL

PT. TO PT.	BEARING	DISTANCE
1322-4020	S 22 40 9 W	97.00
4020-4019	N 67 23 34 W	60.00
4019-4017	N 22 40 9 E	97.00
4017-1322	S 67 23 34 E	60.00

AREA = 0.1336 AC. = 5820 S.F.

PARCEL NO. 167-WL

PT. TO PT.	BEARING	DISTANCE
1357-1344	N 22 40 9 E	130.00
1344-1345	S 67 23 34 E	180.00
1345-1358	S 22 40 9 W	130.00
1358-1357	N 67 23 34 W	180.00

AREA = 0.5372 AC. = 23400 S.F.

PARCEL NO. 169-WL

PT. TO PT.	BEARING	DISTANCE
1359-1347	N 22 40 9 E	130.00
1347-4021	S 67 23 34 E	60.79
4021-4022	S 22 40 9 W	23.50
4022-4023	N 67 23 34 W	24.40
4023-4024	S 22 40 9 W	106.50
4024-1359	N 67 23 34 W	36.39

AREA = 0.1218 AC. = 5304 S.F.

PARCEL NO. 170-WL

PT. TO PT.	BEARING	DISTANCE
3183-4063	N 67 23 34 W	30.00
4063-8902	N 22 40 9 E	35.00
8902-3184	S 67 23 34 E	30.00
3184-3183	S 22 40 9 W	35.00

AREA = 0.0241 AC. = 1050 S.F.

PARCEL NO. 170-T

PT. TO PT.	BEARING	DISTANCE
3184-8902	N 67 23 34 W	30.00
8902-4064	N 22 40 9 E	54.00
4064-4065	N 67 23 34 W	30.00
4065-1310	N 22 40 9 E	41.00
1310-4062	S 67 23 34 E	60.00
4062-3184	S 22 40 9 W	95.00

AREA = 0.0937 AC. = 4080 S.F.

PARCEL NO. 171-WL

PT. TO PT.	BEARING	DISTANCE
1317-9779	N 22 40 9 E	10.00
9779-9781	S 79 51 54 E	30.73
9781-4063	S 22 40 9 W	16.64
4063-1317	N 67 23 34 W	30.00

AREA = 0.0092 AC. = 400 S.F.

PARCEL NO. 171-U

PT. TO PT.	BEARING	DISTANCE
9779-9785	N 22 40 9 E	10.24
9785-9786	S 79 51 54 E	30.73
9786-9781	S 22 40 9 W	10.24
9781-9779	N 79 51 54 W	30.73

AREA = 0.0071 AC. = 307 S.F.

PARCEL NO. 171-T

PT. TO PT.	BEARING	DISTANCE
9779-8905	N 22 40 9 E	45.00
8905-8904	S 67 23 34 E	30.00
8904-9781	S 22 40 9 W	38.36
9781-9779	N 79 51 54 W	30.73

AREA = 0.0287 AC. = 1250 S.F.

PARCEL NO. 171-E (SEE SHEET 22)

PARCEL NO. 173-WL

PT. TO PT.	BEARING	DISTANCE
3183-3184	N 22 40 9 E	35.00
3184-3185	S 67 23 34 E	53.00
3185-3186	S 22 40 9 W	35.00
3186-3183	N 67 23 34 W	53.00

AREA = 0.0426 AC. = 1855 S.F.

PARCEL NO. 173A-U

PT. TO PT.	BEARING	DISTANCE
3184-9783	N 22 40 9 E	2.09
9783-9784	S 75 52 49 E	53.60
9784-3185	S 22 40 9 W	10.00
3185-3184	N 67 23 34 W	53.00

AREA = 0.0074 AC. = 320 S.F.

PARCEL NO. 173-T

PT. TO PT.	BEARING	DISTANCE
3184-3187	N 22 40 9 E	20.00
3187-3188	S 67 23 34 E	53.00
3188-3185	S 22 40 9 W	20.00
3185-3184	N 67 23 34 W	53.00

AREA = 0.0243 AC. = 1060 S.F.

PARCEL NO. 174-WL

PT. TO PT.	BEARING	DISTANCE
1271-3186	N 67 23 34 W	67.00
3186-3185	N 22 40 9 E	35.00
3185-8906	S 75 52 49 E	67.75
8906-1271	S 22 40 9 W	45.00

AREA = 0.0615 AC. = 2680 S.F.

REV.	DATE	DESCRIPTION
Drill	6/28/84	Changed Par. 173-U to 173A-U

COMPLETION DATE - 2-9-84

PARCEL DESCRIPTIONS

STATE JOB No.	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

347
362

22
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

PARCEL NO. 174-U

PT. TO PT.	BEARING	DISTANCE
8906-3185	N 75 52 49 W	67.75
3185-9784	N 22 40 9 E	10.00
9784-8907	S 75 52 49 E	67.75
8907-8906	S 22 40 9 W	10.00

AREA = 0.0154 AC. = 670 S.F.

PARCEL NO. 174-T

PT. TO PT.	BEARING	DISTANCE
8907-8906	S 22 40 9 W	10.00
8906-3185	N 75 52 49 W	67.75
3185-3188	N 22 40 9 E	20.00
3188-8907	S 67 23 34 E	67.00

AREA = 0.0231 AC. = 1005 S.F.

PARCEL NO. 175-WL

PT. TO PT.	BEARING	DISTANCE
1323-4027	S 67 23 34 E	32.00
4027-4028	S 22 40 9 W	91.00
4028-4029	N 67 23 34 W	32.00
4029-1323	N 22 40 9 E	91.00

AREA = 0.0669 AC. = 2912 S.F.

PARCEL NO. 176-WL

PT. TO PT.	BEARING	DISTANCE
2135-4031	S 22 40 9 W	95.00
4031-4030	N 67 23 34 W	60.00
4030-4029	N 22 40 9 E	4.00
4029-4028	S 67 23 34 E	32.00
4028-4027	N 22 40 9 E	91.00
4027-2135	S 67 23 34 E	28.00

AREA = 0.0640 AC. = 2788 S.F.

PARCEL NO. 177-WL

PT. TO PT.	BEARING	DISTANCE
1334-4030	N 22 40 9 E	35.00
4030-4031	S 67 23 34 E	60.00
4031-4032	S 22 40 9 W	35.00
4032-1334	N 67 23 34 W	60.00

AREA = 0.0482 AC. = 2100 S.F.

PARCEL NO. 178-WL

PT. TO PT.	BEARING	DISTANCE
1335-4032	N 67 23 34 W	120.00
4032-2135	N 22 40 9 E	130.00
2135-4034	S 67 23 34 E	60.00
4034-4033	S 22 40 9 W	65.00
4033-4035	S 67 23 34 E	60.00
4035-1335	S 22 40 9 W	65.00

AREA = 0.2686 AC. = 11700 S.F.

PARCEL NO. 179-WL

PT. TO PT.	BEARING	DISTANCE
1281-4035	S 22 40 9 W	65.00
4035-4033	N 67 23 34 W	60.00
4033-4034	N 22 40 9 E	65.00
4034-1281	S 67 23 34 E	60.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 181-WL

PT. TO PT.	BEARING	DISTANCE
4024-4023	N 22 40 9 E	106.50
4023-4022	S 67 23 34 E	24.40
4022-4025	S 22 40 9 W	106.50
4025-4024	N 67 23 34 W	24.40

AREA = 0.0597 AC. = 2599 S.F.

PARCEL NO. 182-WL

PT. TO PT.	BEARING	DISTANCE
1360-4039	N 67 23 34 W	38.00
4039-4040	N 22 40 9 E	60.00
4040-4041	N 67 23 34 W	22.00
4041-2137	S 22 40 9 W	60.00
2137-4025	N 67 23 34 W	59.21
4025-4021	N 22 40 9 E	130.00
4021-4042	S 67 23 34 E	59.21
4042-4037	S 22 40 9 W	48.50
4037-4036	S 67 23 34 E	60.00
4036-1360	S 22 40 9 W	81.50

AREA = 0.2587 AC. = 11267 S.F.

PARCEL NO. 183-WL

PT. TO PT.	BEARING	DISTANCE
1348-2138	S 22 40 9 W	27.00
2138-4038	N 67 23 34 W	60.00
4038-4042	N 22 40 9 E	27.00
4042-1348	S 67 23 34 E	60.00

AREA = 0.0372 AC. = 1620 S.F.

PARCEL NO. 184-WL

PT. TO PT.	BEARING	DISTANCE
2138-4036	S 22 40 9 W	21.50
4036-4037	N 67 23 34 W	60.00
4037-4038	N 22 40 9 E	21.50
4038-2138	S 67 23 34 E	60.00

AREA = 0.0296 AC. = 1290 S.F.

PARCEL NO. 185-WL

PT. TO PT.	BEARING	DISTANCE
4039-2137	N 67 23 34 W	22.00
2137-4041	N 22 40 9 E	60.00
4041-4040	S 67 23 34 E	22.00
4040-4039	S 22 40 9 W	60.00

AREA = 0.0303 AC. = 1320 S.F.

PARCEL NO. 186-WL

PT. TO PT.	BEARING	DISTANCE
1333-4018	N 67 23 34 W	60.00
4018-4019	N 22 40 9 E	33.00
4019-4020	S 67 23 34 E	60.00
4020-1333	S 22 40 9 W	33.00

AREA = 0.0455 AC. = 1980 S.F.

PARCEL NO. 191-WL

PT. TO PT.	BEARING	DISTANCE
2080-2139	N 22 40 9 E	86.67
2139-4043	S 67 23 34 E	30.00
4043-4044	S 22 40 9 W	86.67
4044-2080	N 67 23 34 W	30.00

AREA = 0.0597 AC. = 2600 S.F.

PARCEL NO. 192-WL

PT. TO PT.	BEARING	DISTANCE
2140-9794	N 67 23 34 W	30.00
9794-9795	N 22 40 9 E	86.13
9795-4045	S 67 23 34 E	30.00
4045-2140	S 22 40 9 W	86.13

AREA = 0.0593 AC. = 2584 S.F.

PARCEL NO. 193-WL

PT. TO PT.	BEARING	DISTANCE
4046-2140	N 67 23 34 W	30.00
2140-4045	N 22 40 9 E	86.67
4045-2908	S 67 23 34 E	30.00
2908-4046	S 22 40 9 W	86.67

AREA = 0.0597 AC. = 2600 S.F.
PARCEL No. 193-E (See This Sheet)

PARCEL NO. 194-WL

PT. TO PT.	BEARING	DISTANCE
4049-9790	N 22 40 9 E	15.00
9790-9789	S 67 23 34 E	30.00
9789-4048	S 22 40 9 W	15.00
4048-4049	N 67 23 34 W	30.00

AREA = 0.0103 AC. = 450 S.F.

PARCEL NO. 194-U

PT. TO PT.	BEARING	DISTANCE
9790-2908	N 22 40 9 E	6.67
2908-4047	S 67 23 34 E	30.00
4047-9789	S 22 40 9 W	6.67
9789-9790	N 67 23 34 W	30.00

AREA = 0.0046 AC. = 200 S.F.

PARCEL NO. 195-WL

PT. TO PT.	BEARING	DISTANCE
4046-4049	N 22 40 9 E	65.00
4049-4048	S 67 23 34 E	30.00
4048-2141	S 22 40 9 W	65.00
2141-4046	N 67 23 34 W	30.00

AREA = 0.0448 AC. = 1950 S.F.

PARCEL NO. 196-WL

PT. TO PT.	BEARING	DISTANCE
2078-2327	S 14 4 10 E	93.18
2327-2328	N 67 23 34 W	33.88
2328-2329	S 22 40 10 W	7.00
2329-2330	N 67 23 34 W	5.00
2330-2331	S 22 40 9 W	10.38
2331-2332	N 67 23 34 W	16.86
2332-2333	S 22 40 9 W	37.89
2333-2141	N 67 23 34 W	29.54
2141-2422	N 22 40 9 E	130.00
2422-2078	S 67 23 34 E	29.54

AREA = 0.1435 AC. = 6251 S.F.

PARCEL NO. 197-WL

PT. TO PT.	BEARING	DISTANCE
2079-2333	N 67 23 34 W	96.96
2333-2332	N 22 40 9 E	37.89
2332-2331	S 67 23 34 E	16.86
2331-2330	N 22 40 9 E	10.38
2330-2329	S 67 23 34 E	5.00
2329-2328	N 22 40 10 E	7.00
2328-2327	S 67 23 34 E	33.88
2327-2079	S 14 4 10 E	68.91

AREA = 0.0893 AC. = 3892 S.F.

PARCEL NO. 198-WL

PT. TO PT.	BEARING	DISTANCE
2081-4060	S 67 23 34 E	60.00
4060-4050	S 22 40 9 W	130.00
4050-2085	N 67 23 34 W	60.00
2085-2081	N 22 40 9 E	130.00

AREA = 0.1791 AC. = 7800 S.F.

PARCEL NO. 199-WL

PT. TO PT.	BEARING	DISTANCE
2147-4051	S 22 40 9 W	130.00
4051-4050	N 67 23 34 W	30.00
4050-4060	N 22 40 9 E	130.00
4060-2147	S 67 23 34 E	30.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 200-WL

PT. TO PT.	BEARING	DISTANCE
2147-2148	S 67 23 34 E	30.00
2148-4052	S 22 40 9 W	130.00
4052-4051	N 67 23 34 W	30.00
4051-2147	N 22 40 9 E	130.00

AREA = 0.0895 AC. = 3900 S.F.

PARCEL NO. 201-WL

PT. TO PT.	BEARING	DISTANCE
2082-2086	S 22 40 9 W	130.00
2086-4052	N 67 23 34 W	120.00
4052-2148	N 22 40 9 E	130.00
2148-2082	S 67 23 34 E	120.00

AREA = 0.3581 AC. = 15600 S.F.

PARCEL NO. 202-WL

PT. TO PT.	BEARING	DISTANCE
2088-4053	S 67 23 34 E	60.00
4053-4054	S 22 40 9 W	40.00
4054-4061	N 67 23 34 W	60.00
4061-2088	N 22 40 9 E	40.00

AREA = 0.0551 AC. = 2400 S.F.

PARCEL NO. 203-WL

PT. TO PT.	BEARING	DISTANCE
2091-4061	N 22 40 9 E	90.00
4061-4056	S 67 23 34 E	60.00
4054-4055	S 22 40 9 W	25.00
4055-4056	N 67 23 34 W	20.00
4056-4057	S 22 40 9 W	65.00
4057-2091	N 67 23 34 W	40.00

AREA = 0.0941 AC. = 4100 S.F.

PARCEL NO. 204-WL

PT. TO PT.	BEARING	DISTANCE
2143-4057	N 67 23 34 W	20.00
4057-4056	N 22 40 9 E	65.00
4056-4055	S 67 23 34 E	20.00
4055-2143	S 22 40 9 W	65.00

AREA = 0.0298 AC. = 1300 S.F.

PARCEL NO. 205-WL

PT. TO PT.	BEARING	DISTANCE
2144-2143	N 67 23 34 W	60.00
2143-4053	N 22 40 9 E	130.00
4053-2475	S 67 23 34 E	60.00
2475-2144	S 22 40 9 W	130.00

AREA = 0.1791 AC. = 7800 S.F.

PARCEL NO. 206-WL

PT. TO PT.	BEARING	DISTANCE
2144-2475	N 22 40 9 E	130.00
2475-4067	S 67 23 34 E	80.00
4067-2476	S 22 40 9 W	130.00
2476-2144	N 67 23 34 W	80.00

AREA = 0.2388 AC. = 10400 S.F.

PARCEL NO. 207-WL

PT. TO PT.	BEARING	DISTANCE
2092-2476	N 67 23 34 W	40.00
2476-4067	N 22 40 9 E	130.00
4067-2474	S 67 23 34 E	20.00
2474-2473	S 22 40 9 W	60.00
2473-2472	S 67 23 34 E	20.00
2472-2092	S 22 40 9 W	70.00

AREA = 0.0918 AC. = 4000 S.F.

PARCEL NO. 208-WL

PT. TO PT.	BEARING	DISTANCE
2089-2472	S 22 40 9 W	60.00
2472-2473	N 67 23 34 W	20.00
2473-2474	N 22 40 9 E	60.00
2474-2089	S 67 23 34 E	20.00

AREA = 0.0275 AC. = 1200 S.F.

PARCEL NO. 209-WL

PT. TO PT.	BEARING	DISTANCE
2093-2090	N 22 40 9 E	130.00
2090-2094	S 14 4 10 E	162.09
2094-2093	N 67 23 34 W	96.96

AREA = 0.1447 AC. = 6302 S.F.

PARCEL NO. 210-WL

PT. TO PT.	BEARING	DISTANCE
2084-2150	S 14 4 10 E	95.03
2150-2151	S 75 55 50 W	102.70
2151-2087	N 14 4 10 W	10.43
2087-2083	N 22 40 9 E	129.19
2083-2084	S 67 23 34 E	31.70

AREA = 0.1713 AC. = 7463 S.F.

PARCEL NO. 211-WL

PT. TO PT.	BEARING	DISTANCE
2150-2146	S 14 4 10 E	44.08
2146-2152	S 75 55 50 W	102.70
2152-2151	N 14 4 10 W	44.08
2151-2150	N 75 55 50 E	102.70

AREA = 0.1039 AC. = 4527 S.F.

PARCEL NO. 505-WL

PT. TO PT.	BEARING	DISTANCE
4058-4059	S 75 55 50 W	102.70
4059-2477	N 14 4 10 W	30.00
2477-2145	N 75 55 50 E	102.70
2145-4058	S 14 4 10 E	30.00

AREA = 0.0707 AC. = 3081 S.F.

PARCEL NO. 506-WL

PT. TO PT.	BEARING	DISTANCE
2145-2477	S 75 55 50 W	102.70
2477-2152	N 14 4 10 W	69.00
2152-2146	N 75 55 50 E	102.70
2146-2145	S 14 4 10 E	69.00

AREA = 0.1627 AC. = 7086 S.F.

PARCEL NO. 510-WD

PT. TO PT.	BEARING	DISTANCE
8914-8915	S 67 23 34 E	30.00
8915-8917	S 22 40 9 W	92.00
8917-8916	N 67 23 34 W	30.00
8916-8914	N 22 40 9 E	92.00

AREA = 0.0634 AC. = 2760 S.F.

PARCEL NO. 511-E

PT. TO PT.	BEARING	DISTANCE
8915-8918	S 67 23 34 E	132.00
8918-9630	S 22 40 9 W	56.50
9630-9629	N 87 25 22 W	108.61
9629-9627	S 22 40 9 W	10.00
9627-9631	N 84 5 13 W	15.67
9631-9625	N 67 23 34 W	15.00
9625-8915	N 22 40 9 E	108.20

AREA = 0.2496 AC. = 10873 S.F.

PARCEL NO. 512-E

PT. TO PT.	BEARING	DISTANCE
8918-8919	S 67 23 34 E	116.00
8919-9628	S 84 29 50 W	131.59
9628-8918	N 22 40 9 E	62.00

AREA = 0.0826 AC. = 3596 S.F.

PARCEL NO. 26-E

PT. TO PT.	BEARING	DISTANCE
4205-3980	N 22 40 9 E	30.63
3980-3981	S 67 23 34 E	30.00
3981-4206	S 22 40 9 W	92.50
4206-4205	N 63 48 58 W	30.06

AREA = 0.0631 AC. = 2747 S.F.

PARCEL NO. 27-E

PT. TO PT.	BEARING	DISTANCE
4206-3981	N 22 40 9 E	92.50
3981-3982	S 67 23 34 E	30.00
3982-4207	S 22 40 9 W	94.37
4207-4206	N 63 48 58 W	30.06

AREA = 0.0643 AC. = 2803 S.F.

PARCEL NO. 28-E

PT. TO PT.	BEARING	DISTANCE
4207-3982	N 22 40 9 E	94.37
3982-3983	S 67 23 34 E	30.00
3983-4208	S 22 40 9 W	96.25
4208-4207	N 63 48 58 W	30.06

AREA = 0.0656 AC. = 2859 S.F.

PARCEL NO. 52-E

PT. TO PT.	BEARING	DISTANCE
4226-4000	N 22 40 9 E	107.14
4000-4001	S 67 23 34 E	36.00
4001-4223	S 22 40 9 W	110.00
4223-4226	N 62 51 17 W	36.11

AREA = 0.0897 AC. = 3909 S.F.

PARCEL NO. 68-WD

PT. TO PT.	BEARING	DISTANCE
3945-4181	S 67 23 34 E	35.00
4181-3967	S 22 40 9 W	35.00
3967-3966	N 67 23 34 W	35.00
3966-3945	N 22 40 9 E	35.00

AREA = 0.0281 AC. = 1225 S.F.

PARCEL NO. 86-WD

PT. TO PT.	BEARING	DISTANCE
4185-4186	S 67 23 34 E	11.90
4186-3972	S 22 40 9 W	65.00
3972-4198	N 67 23 34 W	11.90
4198-4185	N 22 40 9 E	65.00

AREA = 0.0178 AC. = 773 S.F.

PARCEL NO. 23-E

PT. TO PT.	BEARING	DISTANCE
8898-3976	N 22 40 9 E	19.92
3976-3992	S 67 23 34 E	28.50
3992-3993	S 22 40 9 W	19.92
3993-8898	N 67 23 34 W	28.50

AREA = 0.0130 AC. = 568 S.F.

PARCEL NO. 25-E

PT. TO PT.	BEARING	DISTANCE
4204-3995	N 22 40 9 E	48.94
3995-3996	S 67 23 34 E	27.00
3996-4205	S 22 40 9 W	50.63
4205-4204	N 67 23 34 W	27.00

AREA = 0.0308 AC. = 1344 S.F.

PARCEL NO. 51-E

PT. TO PT.	BEARING	DISTANCE
4225-3999	N 22 40 9 E	104.76
3999-4000	S 67 23 34 E	30.00
4000-4226	S 22 40 09 W	107.14
4226-4225	N 62 51 17 W	30.09

AREA = 0.0730 AC. = 3179 S.F.

PARCEL NO. 53-E

PT. TO PT.	BEARING	DISTANCE
4223-4001	N 22 40 9 E	110.00
4001-4002	S 67 23 34 E	24.00
4002-4227	S 22 40 9 W	110.00
4227-4223	N 67 23 34 W	24.00

AREA = 0.0606 AC. = 2640 S.F.

PARCEL NO. 55-E

PT. TO PT.	BEARING	DISTANCE
4224-4228	N 67 23 34 W	60.00
4228-4239	N 22 40 9 E	45.00
4239-4005	S 67 23 34 E	60.00
4005-4224	S 22 40 9 W	45.00

AREA = 0.0620 AC. = 2700 S.F.

PARCEL NO. 193-E

PT. TO PT.	BEARING	DISTANCE
4045-8903	N 22 40 9 E	43.33
8903-2907	S 67 23 34 E	30.00
2907-2908	S 22 40 9 W	43.33
2908-4045	N 67 23 34 W	30.00

AREA = 0.0298 AC. = 1300 S.F.

PARCEL NO. 171-E

PT. TO PT.	BEARING	DISTANCE
9779-4065	N 22 40 9 E	79.00
4065-4064	S 67 23 34 E	30.00
4064-9781	S 22 40 9 W	72.36
9781-9779	N 79 51 54 W	30.73

AREA = 0.0521 AC. = 2270 S.F.

PARCEL NO. 193-E

PT. TO PT.	BEARING	DISTANCE
4045-8903	N 22 40 9 E	43.33
8903-2907	S 67 23 34 E	30.00
2907-2908	S 22 40 9 W	43.33
2908-4045	N 67 23 34 W	30.00

AREA = 0.0298 AC. = 1300 S.F.

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

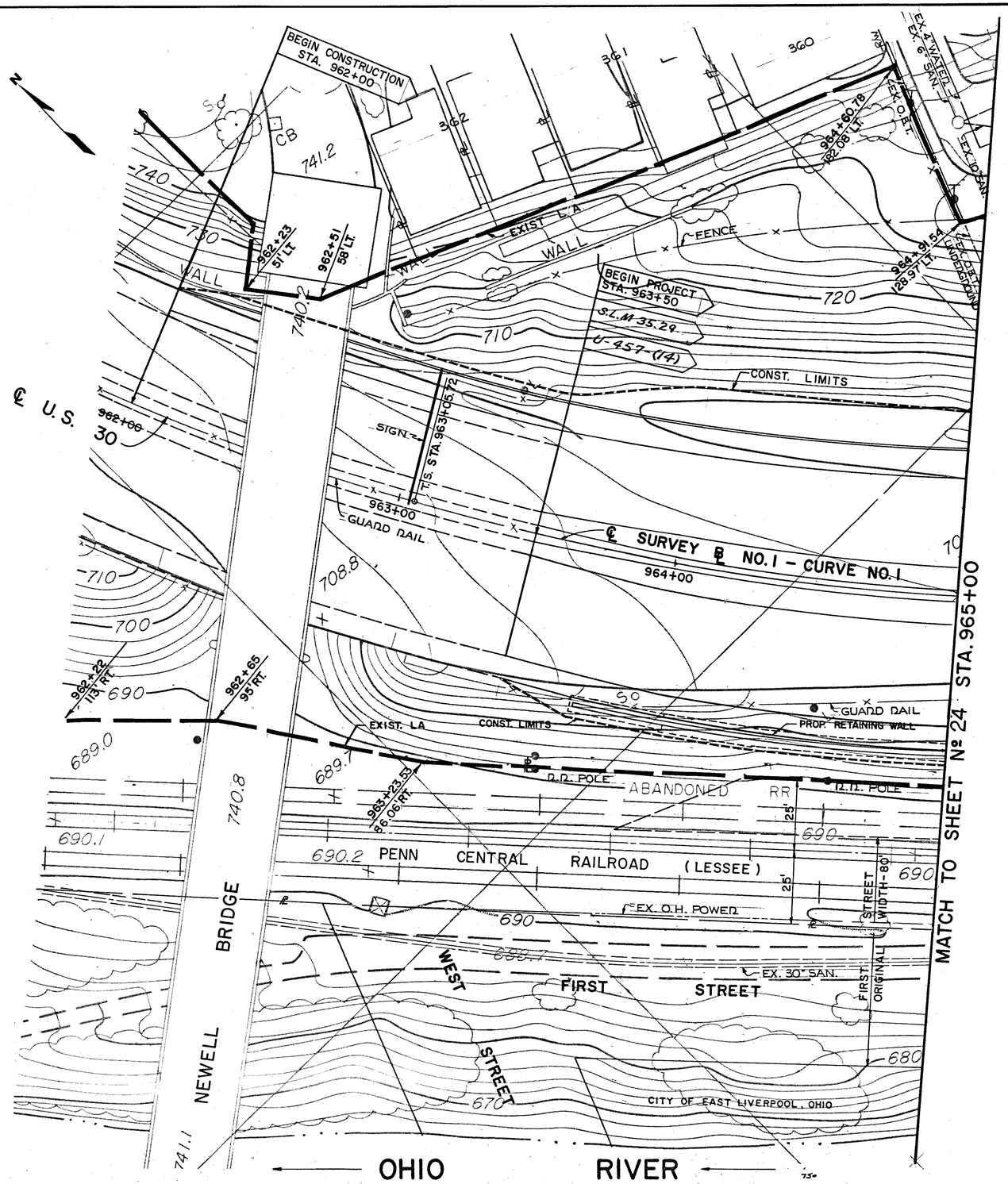
PARCEL DESCRIPTIONS

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

348
362

23
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL



R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV. DATE	DESCRIPTION
	COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 23 OF 37

R/W STA. 962+00 TO STA. 965+00

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

349
362

24
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

BEGIN ACQUISITION
STA. 969+41.78
COL-30-35.29

POINT	STATION	OFFSET
3935	969+79.2870	152.1457 L
3940	969+41.7786	140.2933 L
3941	969+88.9621	123.0129 L
3942	969+48.2894	121.3091 L
4129	969+60.9582	83.7848 L
4130	969+97.9688	95.4621 L

BASELINE NO. 1 CURVE NO. 2 DATA
P.I. STA. 972+23.26
DELTA = 17°57'57" LT.
Dc = 1° 28'00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV. DATE	DESCRIPTION
	COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 24 OF 37

R/W STA. 965+00 TO STA. 970+00

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

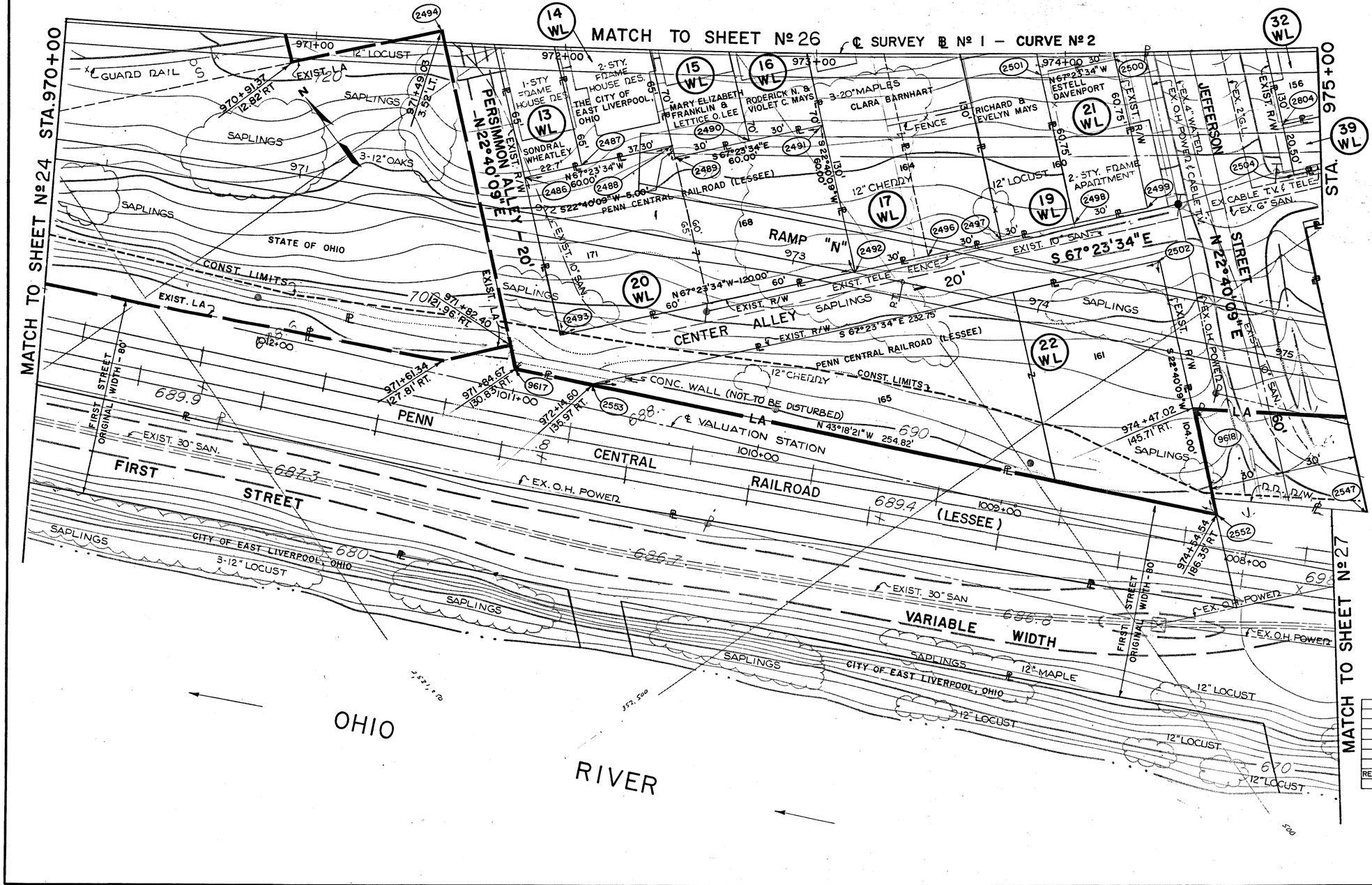
350
362

25
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

BASELINE NO. 1 CURVE NO. 2 DATA
P.I. STA. 972+23.26
DELTA = 17°57'57" LT.
Dc = 1° 28' 00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

NOTE — LOT NUMBERS REFER TO CLAEBURN SIMM'S ADDITION DEED BOOK 16, PAGE 221



POINT	STATION	OFFSET
2486	971+86.3592	53.6217 R
2487	972+08.0344	47.8602 R
2488	972+43.7859	38.6586 R
2489	972+44.9786	43.5112 R
2490	972+73.8190	36.3599 R
2491	973+02.7627	29.4243 R
2492	973+16.0550	87.8878 R
2493	972+02.4821	116.4995 R
2494	971+49.0302	3.5531 L
2496	973+44.6954	81.2671 R
2497	973+73.4294	74.8614 R
2498	974+02.2544	68.6717 R
2499	974+31.1678	62.6992 R
2500	974+19.3680	3.1259 R
2501	973+90.0332	9.1888 R
2502	974+35.3510	84.2655 R
2504	974+89.2485	51.4094 R
2547	975+13.0261	187.8399 R
2552	974+54.5430	186.3525 R
2804	974+85.5921	31.2451 R

SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 25 OF 37

R/W STA. 970+00 TO STA. 975+00 RT.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

351 / 362

26 / 37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

POINT	STATION	OFFSET
2478	974+05.4709	64.7378 L
2479	973+45.9088	52.1757 L
2480	973+16.2765	45.5603 L
2481	972+86.7473	38.7236 L
2482	972+57.3239	31.6666 L
2483	972+28.0092	24.3906 L
2484	971+91.7168	15.0406 L
2485	971+69.7164	9.1866 L
2494	971+49.0302	3.5531 L
2503	974+65.4098	76.4010 L
2936	974+79.0797	4.1568 L
3932	971+32.8966	61.3807 L
3933	971+03.6092	53.1817 L
3934	970+74.4478	44.7670 L
3935	969+79.2870	152.1457 L
3936	970+06.0802	160.3557 L
3937	970+35.9869	169.2703 L
3938	970+66.0349	177.9649 L
3939	970+96.2215	186.4378 L
3941	969+88.9621	123.0129 L
3943	970+18.9695	120.5815 L
3944	970+48.5912	129.4026 L
3956	973+93.0271	123.4961 L
3958	973+02.5210	104.0238 L
3959	972+72.5639	97.0826 L
3960	972+42.7175	89.9183 L
3961	972+12.9846	82.5320 L
3962	971+88.2960	76.2081 L
3963	971+53.8707	67.0987 L
3964	971+40.9833	112.8997 L
3965	971+34.7695	134.5803 L
3966	971+27.7810	158.6585 L
3967	971+62.9861	167.9900 L
3968	971+69.7663	143.8523 L
3969	971+75.7945	122.1189 L
3970	972+56.7001	160.2464 L
3972	972+87.1341	167.3043 L
3975	974+53.8626	135.3400 L
3990	975+18.1358	146.7857 L
3991	974+82.8901	140.6440 L
3993	974+70.8221	202.6600 L
3994	975+06.6392	208.9040 L
4189	971+66.3509	156.0517 L
4190	971+92.9025	157.4935 L
4191	972+24.7896	158.9949 L
4193	971+64.9644	160.9807 L
4194	971+91.5504	162.4314 L
4195	972+23.4791	163.9433 L
4196	972+55.4315	165.2049 L
4197	972+88.6299	161.2478 L
4198	972+75.0482	164.5318 L
4199	973+83.4377	167.5389 L
4201	971+06.5262	152.1629 L
4202	974+44.9625	179.5220 L
4240	973+79.5383	185.1496 L
8898	974+41.3270	197.2678 L

POINT	STATION	OFFSET
3945	971+17.8450	192.3475 L
4181	971+53.3455	201.7635 L
4182	971+78.8122	208.3011 L
4183	972+09.4897	215.9379 L
4184	972+40.2926	223.3463 L
4185	972+58.9363	227.7049 L
4186	972+71.2177	230.5247 L
4187	972+84.9625	176.0615 L
4188	973+30.9410	177.0726 L

NOTE – LOT NUMBERS REFER TO CLAEBURN SIMM'S ADDITION DEED BOOK 16, PAGE 221

BASELINE NO. 1 CURVE NO. 2 DATA
P.I. STA. 972+23.26
DELTA = 17°57'57" LT.
Dc = 1° 28'00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
D. 11	2-87	Added plus & offset on LA line breakpoint Lt of Sta 970+35
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 26 OF 37

R/W STA. 970+00 TO STA. 975+00 LT.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

352
362

27
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

DOROTHY SAULT & EILEEN TOUVELLE EXECUTRICES OF THE ESTATE OF ELDA R. MAYS DECD.

CURVE Nº 2

STA. 975+00

MATCH TO SHEET Nº 28

MATCH TO SHEET Nº 25

MATCH TO SHEET Nº 29 STA. 980+15.50

℄ SURVEY ℄ Nº 1 – CURVE Nº 3

P.C.C. STA. 978+30.67

N 22° 40' 09" E

S 67° 23' 34" E

N 22° 40' 09" W

N 43° 53' 24" W

N 67° 23' 34" W

S 67° 23' 34" E

ALLEY

CENTER

EAST ALLEY

WEST FIRST STREET

WEST SECOND ST.

JACKSON STREET

LA

EXIST. R/W

EX. O.H. POWER, TELE. & CABLE T.V.

EX. 6" SAN.

EX. 2" G.L.

EX. 6" WATER

EX. 4" WATER

EX. 6 GAS

EX. 10" SAN.

EX. 30" SAN.

EX. 4" G.L.

EX. 4" CABLE T.V. SHED

EX. IRON FENCE

3' WIDE FENCE

3' WOOD FENCE

3' CONC. WALL

3' STONE WALL

4' CONC. WALK

3' CONC. WALK

CONC. WALK

CONC. PATIO

BRICK WALK

RAMP

SHED

SAPLING

SAPLINGS

BUSHES

CONST. LIMITS

R/W

WALL

EX. 41' UNNAMED STREET 30'

EX. 33.52' R/W

EX. 32.11' R/W

JEFFERSON ST. 40'

PENN CENTRAL RAILROAD (LESSEE)

N.R. POLE

EX. O.H. POWER & CABLE T.V.

EX. O.H. POWER

MH

689.89

688.

689.4

690

684.4

977

978

979

980

700

699.3

710

714.1

712.6

400.5

POINT	STATION	OFFSET	
2120	979+94.0047	142.7658	R
2121	979+85.5973	13.0454	R
2126	977+47.7266	34.4701	R
2127	977+61.9949	163.6444	R
2128	977+68.2791	223.2809	R
2129	979+97.7610	202.6409	R
2505	975+15.2361	201.0071	R
2545	975+71.5659	190.9747	R
2546	975+44.0793	195.7574	R
2547	975+13.0261	187.8399	R
2938	975+44.2825	20.7820	R
2945	977+24.5234	15.1148	R
2946	976+96.3683	18.6746	R
2947	976+94.0755	0.8220	R
2948	976+95.5627	0.6287	R
2949	976+35.7949	27.0489	R
2950	976+06.3439	31.4760	R
2951	975+76.9607	36.1264	R
2952	975+47.6484	40.9993	R
2953	974+93.1282	73.0364	R
2954	975+31.8224	66.0363	R
2955	975+51.2196	62.6827	R
2956	976+09.6019	53.2112	R
2957	976+34.9852	49.3824	R
2958	976+59.4376	45.8587	R
2959	976+94.7236	41.0573	R
2960	977+27.1421	36.9395	R
2961	977+42.0546	166.0362	R
2962	977+10.6473	170.0248	R
2963	976+76.4573	174.6758	R
2964	976+52.7613	178.0892	R
2965	976+28.1604	181.7983	R
2966	974+99.3915	108.4614	R
2967	975+37.7542	101.5227	R
2968	976+65.3106	22.8459	R
2988	978+39.5480	24.8174	R
2989	978+66.3271	22.3754	R
2990	979+25.9138	17.3990	R
2991	979+35.6320	147.0248	R
2992	978+77.3499	151.8929	R
2993	978+19.3118	157.3738	R
2994	977+90.6313	160.3997	R
2995	977+50.5427	59.3071	R
2996	977+79.9239	55.9778	R
2997	978+10.8077	67.8000	R
2998	978+43.1748	64.6500	R
4077	980+02.6832	282.9773	R
4078	979+07.3627	270.2061	R
4079	979+06.9490	277.0652	R
4080	978+69.0215	270.0909	R
4081	978+34.6836	264.0169	R
4082	978+03.0323	258.5578	R
4083	977+71.3811	253.3708	R
4084	977+99.3315	219.7746	R
4085	978+30.4348	216.5294	R
4086	978+64.2641	213.3069	R
4087	979+02.6995	209.9015	R
4088	977+48.6229	225.6385	R
4089	977+51.2771	250.2244	R
4090	976+87.6968	233.6301	R
4091	979+06.4144	270.0877	R
9724	976+21.5884	166.3347	R
9725	975+58.0920	199.1784	R
9726	978+33.9802	202.8336	R
9727	979+25.4346	217.6038	R
9728	979+98.7499	218.6080	R
9735	979+56.5865	221.5775	R

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

NOTE – LOT NUMBERS REFER TO CLAEBURN SIMM'S ADDITION DEED BOOK 16, PAGE 221

NOTE – LOT NUMBERS REFER TO ORGINAL PLAT, DEED BOOK 3, PAGE 1060

BASELINE NO. 1 CURVE NO. 2 DATA
P.I. STA. 972+23.26
DELTA = 17°57'57" LT.
Dc = 1°28'00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

BASELINE NO. 1 CURVE NO. 3 DATA
P.I. STA. 985+04.94
DELTA = 13°25'26" LT.
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.38'
CH = 1339.31'
E = 39.54'

REV. DATE	DESCRIPTION
	COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 27 OF 37

R/W STA. 975+00 TO STA. 980+15.50 RT.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

353
362

28
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

POINT	STATION	OFFSET		POINT	STATION	OFFSET	
2122	979+84.1379	8.8894	L	4006	979+71.0422	198.4539	L
2123	979+75.2736	138.5946	L	4007	979+09.0908	193.9364	L
2124	977+29.8126	116.4764	L	4008	978+78.1548	191.4352	L
2125	977+45.2209	12.6318	R	4009	978+53.4267	189.3182	L
2443	979+80.0972	68.7550	L	4010	978+16.1438	185.9408	L
2444	979+50.0883	66.6452	L	4011	977+84.8217	182.8806	L
2445	979+47.6546	99.5589	L	4203	976+96.6162	203.1943	L
2446	979+44.7642	135.4505	L	4204	975+10.6956	187.2258	L
2447	979+19.5565	64.3394	L	4205	975+38.9468	190.2041	L
2448	979+13.9813	134.1247	L	4206	975+70.3883	193.2851	L
2929	975+25.7006	87.1572	L	4207	976+01.8800	196.1251	L
2930	975+55.9699	92.1928	L	4208	976+33.4179	198.7236	L
2931	975+86.3174	96.9987	L	4211	975+08.8557	197.0907	L
2932	976+16.7397	101.5742	L	4212	975+37.1806	200.0815	L
2933	976+47.2334	105.9183	L	4213	975+68.7046	203.1756	L
2934	976+80.8548	110.4288	L	4214	976+00.2792	206.0282	L
2935	977+08.4210	113.9096	L	4215	976+31.9005	208.6387	L
2937	975+38.2871	14.3764	R	4216	976+01.8800	213.1313	L
2939	975+37.6934	18.1651	L	4217	975+29.0205	245.0337	L
2940	975+67.4450	23.1117	L	4218	975+60.6011	250.0392	L
2941	976+59.6012	18.7639	L	4219	975+63.1835	235.2360	L
2942	976+92.4818	23.1739	L	4220	975+94.7241	239.9827	L
2943	976+92.2234	25.1574	L	4221	976+26.3444	244.4898	L
2944	977+19.1933	28.5623	L	4222	977+18.5157	205.8224	L
2969	977+55.1147	119.3946	L	4223	978+51.5734	209.2380	L
2970	977+91.3215	123.2064	L	4224	979+69.6113	218.4063	L
2971	978+22.1543	126.2138	L	4225	977+82.0249	207.9785	L
2972	978+52.7939	129.0155	L	4226	978+13.8031	208.6896	L
2973	978+81.3341	131.4793	L	4227	978+76.3901	211.3626	L
2974	977+40.2965	29.5832	L	4228	979+07.4371	213.8727	L
2975	977+65.3319	32.4366	L	4229	978+50.6418	219.1977	L
2976	978+58.7596	63.2767	L	4230	978+75.5030	221.3261	L
2977	978+86.9711	65.7122	L	4231	979+06.6057	223.8407	L
2978	978+87.8625	55.1690	L	4232	979+68.8919	228.3824	L
2979	979+20.0735	57.7793	L	4233	977+76.3979	257.4582	L
2980	979+21.9040	34.4298	L	4234	977+77.5409	247.5155	L
2981	979+82.1282	38.8226	L	4235	978+08.3539	260.5803	L
2982	979+24.2269	4.5193	L	4236	978+46.4072	266.0145	L
2983	978+92.3136	1.9329	L	4237	978+71.4707	266.1602	L
2984	978+64.4138	0.4758	R	4238	978+72.3725	256.1973	L
2985	978+34.5480	3.2072	R	4239	979+03.6721	258.7277	L
2986	978+04.7244	6.1216	R	4242	977+17.2268	215.7478	L
2987	977+69.9899	9.8088	R	4243	977+80.9062	217.9224	L
3985	977+00.6139	173.4365	L	4244	978+12.7699	218.6418	L
3986	976+38.4704	165.3192	L	4245	977+40.4306	243.5756	L
3987	976+07.5037	160.9066	L	4246	977+42.2822	228.6769	L
3988	975+76.6117	156.2593	L	4248	977+15.9309	225.6728	L
3989	975+45.7981	151.3780	L	3980	975+22.6209	279.5209	L
3990	975+18.1358	146.7857	L	3981	975+54.4936	284.5736	L
3995	975+01.6145	235.4036	L	3982	975+86.4532	289.3846	L
3996	975+29.9249	240.1062	L	3983	976+18.4958	293.9529	L
3997	977+22.3415	176.0439	L	4000	978+02.4354	315.3064	L
				4001	978+41.1364	318.7866	L

BASELINE NO. 1 CURVE NO. 2 DATA
P.I. STA. 972+23.26
DELTA = 17°57'57" LT.
Dc = 1°00'00"
R = 3906.53'
T = 617.54'
L = 1224.95'
CH = 1219.94'
E = 48.51'

BASELINE NO. 1 CURVE NO. 3 DATA
P.I. STA. 985+04.94
DELTA = 13°25'26" LT.
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.38'
CH = 1339.31'
E = 39.54'

R/W SHEET INDEX

		26	28	30	32	35	37
23	24	25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 28 OF 37

R/W STA. 975+00 TO STA. 980+00 L.T.

NOTE - LOT NUMBERS REFER TO CLAEBURN SIMM'S ADDITION DEED BOOK 16, PAGE 221

NOTE - LOT NUMBERS REFER TO ORGINAL PLAT, DEED BOOK 3, PG. 1060

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

354
362

29
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

MATCH TO SHEET Nº 30

981+00 ℄ SURVEY ℄ Nº 1 — 982+00 — 983+00 — 984+00 — CURVE Nº 3 — 985+00

EXIST. 2" GL — EXIST. O.H. POWER

1336 RUTH E. PARSONS A.K.A. RUTH PARSONS-GREEN — 1½ STY. CONC. BLK. HSE. — 3017 — 3018 — 3' WOOD FENCE — 1-STY. FR. HSE. — 2 STY. BRICK STORAGE BLDG. — 2-STY. BRICK HSE. — 1337 — (150.00') — 1338 — 3044 — 3045 — 1-STY. FR. HSE. — 3046 — 3047 — 3048 — 2 STY. FR. BLDG.

ROXIE BLYSTONE — 1000 — 1001 — 2-STY. FR. HSE — 2-STY. FR. DUPLEX — ROBERT RIGGS 1-STY. FR. HSE. — CONC. BLOCK GARAGE — RAYMOND R. TREVELLINE — ESTATE OF THEODORE FARNSWORTH, DECD. & JOHANNA FARNSWORTH DECD. — DAVE E. MOORE & PATSY L. MOORE — OLIVER SPENCER

97 WL — 99 WL — 102 WL — 121 WL — 122 WL — 123 WL

3024 — 20" TWIN OAKS — 3021 — 16" MAPLE — 3020 — 4' WIRE FENCE — 3055 — 3056 — 3057 — 3060

710

3026 — 98 WL — 3025 — 3061 — SAPLINGS GARAGE — SHED — 3062 — 3058 — 3059 — PILE — 20" DEAD CHERRY

PARSONS COAL CO. INC. AN OHIO CORPORATION — CONC. BLOCK BLDG. — ESTATE OF MILTON R. WATSON, DECD. — 1-STY. FR. HSE. — DOROTHY L KOUNTZ — 2-16" MAPLES — ANDRO, INC., AN OHIO CORP. — 3-16" OAKS — 100 WL — 101 WL — 1 STY. ADD. — 2-STY. FR. HSE. — 2-STY. FR. HSE. — HAZEL PEARL LONG, A.K.A. HAZEL PEARL SICKLES — 122A WL — 125 WL — BETTY L. JAMES LOUISE WINKLE DORIS STARR LENA GIBSON FREDA FARNSWORTH — GEORGE JAMES & BETTY JAMES — 16" CHERRY — MICHAEL J. PUSATERI — 721.2

1349 — 3023 — 3022 — 3109 — EXIST. R/W — (120.00') — 1350 — 1351 — 3053 — 3052 — 3051 — 3050 — 3049 — L A — EXIST R/W

PEACH ALLEY 20 — N 22°40'09"E — EX. 2" G.L. — 3' WOOD FENCE — EXIST. R/W — 124 WL — 2-STY. BRICK HSE. — 126 WL — 2 STY FR. HSE. — 127 WL — 3' CONC. WALK — 3' WIDE FENCE — 128 WL — 129 WL

DEREDRETH F. WILSON A.K.A. DEREDRETH WILSON AND GRETCHEN WILSON THOMAS

STA. 980+15.50 — N 22° 40'09"E — 2441 — 700 — 4' BRICK WALK — 6-16" MAPLES — 2-12" MAPLES — 4' CONC. WALK — EXIST R/W

EX. O.H. POWER & CABLE T.V. — EX. 6" SAN. — EX. 4" WATER — EX. 6" G.L.

℄ STREET 60 — 699.8 — WEST SECOND STREET — 700.3 — 699.4 — 60' — S 67°23'34"E

STA 10+00 WEST SECOND
STA. 53+41.98 JACKSON ST.

NOTE: BUILDINGS NOT BE DISTURBED

PROP SIDEWALK — EXIST. R/W & CONST. LIMITS — PROP SIDEWALK — EXIST. R/W & CONST. LIMITS

20" CHERRY — 701.3 — MILDRED O. HAGUE — 2-STY. FR. HSE. — DOROTHY M. BURLINGAME — 119 — 2-STY. FR. HSE. — OTTO SHRADES — 113 — 3' WOOD FENCE — B.C. HECK JR. — 4' CONC. WALK — 1-STY. FR. HSE. — OLIVE MORRILL — 107 — 2-STY. FR. HSE. — CONCETTA & ANDREW LONGE ETAL. — 95 — 2-STY. BRICK BLDG. — 2-STY. FR. HSE. — WILLIE HIGGINS — 699.2 — B.A. & or A. McKINLEY — 57½ CONC. BLOCK BLDG. — 77

CLARENCE & MARY CHRISTY — TRAILER — 101 — 12" MAPLE — 2-18" MAPLES — 1-STY. FR. HSE. — 3' WOOD FENCE — 2-STY. BRICK BLDG. — EX. 4" WATER — EXIST. R/W — EX. O.H. POWER — MARY WATKINS — 89 — 3' WIRE FENCE — 696.1 — GARAGE — 83 — 699.3 — IRIS LISLE

SAPLINGS — SAPLINGS — GARAGE

EX. O.H. POWER & TELE.

EX. TELE.

PENN CENTRAL 690 RAILROAD (LESSEE)

EX. 6" SAN. — 690.4

PINK ALLEY 20' — EX. 4" G.L.

NOTE - LOT NUMBERS REFER TO ORGINAL PLAT, DEED BOOK 3, PG. 1060

MATCH TO SHEET Nº 27 — ℄ JACKSON 54 — EX. O.H. POWER — EXIST. R/W — 30' — 60

MATCH TO SHEET Nº 31 — STA. 985+00

POINT	STATION	OFFSET	
1336	980+45.3650	9.3156	R
1337	982+85.0179	0.6586	R
1338	983+11.0247	0.3234	R
1349	980+52.4561	139.1171	R
1350	982+86.8066	130.6461	R
1351	983+12.2366	130.3177	R
3017	981+05.2038	6.2112	R
3018	981+35.1459	4.8938	R
3020	981+66.9718	57.7004	R
3021	981+37.2957	58.8506	R
3022	981+40.2543	134.7910	R
3023	981+03.1683	136.4496	R
3024	980+99.9994	66.5239	R
3025	981+07.8992	66.1499	R
3026	980+48.6773	60.2229	R
3044	983+41.0227	0.0834	R
3045	983+71.0224	0.0004	R
3046	984+01.0222	0.0746	R
3047	984+31.0203	0.3058	R
3048	984+85.0077	1.1177	R
3049	984+82.3605	131.0902	R
3050	984+29.5703	130.2976	R
3051	984+00.2376	130.0722	R
3052	983+70.9034	130.0005	R
3053	983+41.5693	130.0823	R
3054	983+11.4678	47.1713	R
3055	983+41.2225	46.9330	R
3056	983+70.9806	45.0004	R
3057	984+00.7466	45.0737	R
3058	984+30.5110	45.3029	R
3059	984+30.5284	43.7530	R
3060	984+84.1097	44.5584	R
3061	983+70.9760	50.0005	R
3062	984+00.7163	50.0737	R

BASELINE NO. 1 CURVE NO. 3 DATA
P.I. STA. 985 + 04.94
DELTA = 13°25'26" LT.
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.38'
CH = 1339.31'
E = 39.54'

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 29 OF 37

R/W STA. 980+15.50 TO STA. 985+00 RT.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

355/362

30/37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

POINT	STATION	OFFSET	
1274	980+36.6569	142.4237	L
1275	984+94.4200	150.7065	L
1318	982+82.8210	151.3092	L
1319	983+09.5363	151.6527	L
1325	982+84.7074	21.3224	L
1326	983+10.8143	21.6588	L
1363	984+93.0500	90.7215	L
2999	981+28.8722	146.9631	L
3000	981+59.6409	148.1545	L
3001	981+75.0300	148.6899	L
3002	981+90.4220	149.1849	L
3003	982+21.2135	150.0542	L
3004	982+52.0137	150.7623	L
3005	982+24.5021	20.0945	L
3006	981+94.4108	19.2443	L
3007	981+79.3687	18.7601	L
3008	981+64.3293	18.2366	L
3009	981+34.2592	17.0715	L
3010	981+32.5400	59.1769	L
3011	981+62.8331	60.3504	L
3012	982+23.0031	80.0762	L
3013	982+53.4219	80.7759	L
3014	982+83.8475	81.3164	L
3015	982+23.7565	50.0854	L
3016	982+84.2797	51.3193	L
3027	983+49.5966	151.9406	L
3028	983+71.1688	151.9827	L
3029	984+32.8014	151.6673	L
3030	984+63.6133	151.2675	L
3032	984+91.4881	20.7385	L
3033	984+92.1082	48.7317	L
3034	984+61.3826	21.2860	L
3035	984+31.2722	21.6759	L
3036	983+71.0433	21.9827	L
3037	983+71.0717	51.9827	L
3038	983+10.5246	51.6574	L
3039	983+10.2220	82.6559	L
3040	983+49.7928	82.9408	L
3041	983+71.1014	82.9827	L
3042	984+32.0280	86.6717	L
3043	984+62.4851	86.2769	L
8886	980+33.0876	202.3238	L
8888	983+08.9261	211.6499	L
8890	983+71.2287	211.9827	L
8892	980+31.8805	222.2900	L
8893	980+53.7878	203.4696	L
8894	983+08.7715	226.6491	L
8895	983+71.2439	226.9827	L

BASELINE NO. 1 CURVE NO. 3 DATA
P.I. STA. 985+04.94
DELTA = 13°25'26" LT.
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R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
Dist. 22846		Added location of Sign Pole on Par. 85-T
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

NOTE - LOT NUMBERS REFER TO ORIGINAL PLAT, DEED BOOK 3, PG. 1060

R/W SHEET Nº 30 OF 37

R/W STA. 980+00 TO STA. 985+00 LT.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

356 / 362

31 / 37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

POINT	STATION	OFFSET	
1339	985+50.9642	2.8008	R
1340	986+10.8839	4.9896	R
1341	987+90.2773	15.3122	R
1342	988+13.6744	17.0769	R
1343	989+92.1179	33.7380	R
1352	985+46.8555	132.7344	R
1353	986+05.4493	134.8733	R
1354	987+80.8892	144.9634	R
9024	987+87.3436	55.2061	R
9025	988+10.5804	56.9580	R
9026	989+87.8084	73.5004	R

CENTER ALLEY 20' S 67°23'34"E
MATCH TO SHEET Nº 32
℄ SURVEY ℄ Nº 1 - CURVE Nº 3
CENTER ALLEY - 20'
985+00 986+00 987+00 988+00 989+00 990+00
EX. G" SAN. EX. CABLE T.V. & TELE. EX. O.H. POWER
EXIST. R/W 60' 60' 60' 28.5' 31.5'
1339 1340 1341 1342 1343
COMMERCIAL 2½-STY. FR. BLDG.
DEREDRETH F. WILSON A.K.A. DEREDRETH WILSON AND GRETCHEN WILSON THOMAS
1-STY. BRICK & TILE GARAGE
76 70 64 58
FRANK J. MANGANO
STA. 987+87.34 55.21' RT.
9024 9025 9026
N 22°40'09"E
STREET 60'
EX. TELE. EX. 5" G.L. EX. O.H. POWER
EXIST. R/W 30' 30' 52 130' 150'
157 WL
PROP. RETAINING WALL
702.2
700
THE OHIO POWER COMPANY AN OHIO CORPORATION
EX. O.H. POWER
10' WIRE FENCE
129 WL
141 WL
2-STY. BRICK BLDG. COMMERCIAL WARE HOUSE
STA. 987+80.89-144.92'RT.
STA. 17+76.04-30'LT.
SUB-STATION 698.9
52 46 40
METAL FRAME BLDG.
SAPLING
1352 1353 1354 1355 1356
CB
EX. G" WATER
EX. 5" O.H. POWER
EXIST. R/W 66' 60' L A (180.00') 60'
EX. O.H. POWER & CABLE T.V.
EX. G" SAN. EX. 4" WATER
MH
698.7
PROP. SIDEWALK
EX. G" G.L.
EX. G" SAN.
EX. O.H. POWER & CABLE T.V.
EXIST. R/W & CONSTR. LIMITS
℄ EAST SECOND STREET
S 67°23'34"E
STA. 15+66.01 EAST SECOND ST.
STA. 53+41.98 MARKET STREET
698.6 698.2
EX. G" WATER
60'
697.9
S 67°23'34"E
STA. 20+09.54 EAST SECOND ST.
STA. 53+41.98 WASHINGTON ST.
NOTE: BUILDING NOT TO BE DISTURBED
EXIST. R/W & CONST. LIMITS
1-STY. BR. BLDG.
24" MAPLE
1-STY. CONC. BLOCK BLDG.
CLARENCE & MARY DOUGHTY
B.A.B./OR A. MCKINLEY
77
EX. TELE. EX. G" WATER EX. G" G.L. 54
MARKET STREET
N 22°40'09"E
EXIST. R/W & CONST. LIMITS
EX. O.H. POWER
EXIST. R/W 108' 130' 30" MAPLE
BRICK KILN
DEPT. OF PUBLIC WORKS
71 65
STATE OF OHIO INC.
694.7
696.3
2-STY. FR. HSE.
CLAIR & GENEVIEVE CUNNINGHAM
HARRY & DEBORAH BARLOW
59
2-16" CHERRIES
SAPLING
3-12" MAPLES
BUSH
PROP. SIDEWALK
EX. O.H. POWER & TELE.
EX. 4" G.L.
EX. G" SAN.
EX. TELE.
EXIST. R/W 130' 150' 30' 30' 60' 10' 50' 40' 20'
NOTE: BUILDING NOT TO BE DISTURBED
16" CHERRY
SLAG AREA
1-STY. BRICK BLDG.
HARRY BARLOW
39'-11½"
35'-2" R
53 47
BRICK BLDG.
LAURA E MURDOCK
41
51'-4"
4' WOOD FENCE
EXIST. R/W
CONC. WALLS
3-16" MAPLES
16" DEAD MAPLE
62'-4"
2'-4"
28'-8"
25'
6'-4"
54
EX. 4" WATER
WASHINGTON STREET
COOK ALLEY 20'
EX. O.H. POWER
EXIST. R/W
PINK ALLEY 20'
EX. G" SAN. EX. TELE.
693.7
689.69
3-1
NOTE - LOT NUMBERS REFER TO ORIGINAL PLAT, DEED BOOK 3, PG. 1060
STA. 985+00 MATCH TO SHEET Nº 29
STA. 990+25 MATCH TO SHEET Nº 34
N 22°40'09"E
60' 53

BASELINE NO. 1 CURVE NO. 3 DATA
P.I. STA. 985+04.94
DELTA = 13°25'26" LT.
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.38'
CH = 1339.31'
E = 39.54'

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
		COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 31 OF 37

R/W STA. 985+00 TO STA. 990+25 RT.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457 (15).	

357
362

32
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

POINT	STATION	OFFSET	
1278	986+79.0489	143.9568	L
1279	990+09.0491	117.3131	L
1320	988+01.8047	136.2425	L
1321	988+25.8318	134.4293	L
1327	985+51.6775	19.1708	L
1328	986+11.8272	16.9733	L
1329	987+91.9069	6.6103	L
1330	988+15.3930	4.8388	L
1331	989+94.5117	11.8866	R
1364	985+53.9857	89.1335	L
1365	986+14.8802	86.9079	L
1366	986+75.7199	84.0455	L
3031	985+52.5939	47.1560	L
3063	987+40.4691	140.4203	L
3064	987+83.7544	137.5392	L
3065	987+81.2668	104.1278	L
3066	987+79.8275	104.2288	L
3067	987+72.8483	7.7764	L
3068	987+52.4482	9.3679	L
3069	987+31.9551	10.6920	L
3070	986+71.9242	14.1467	L
3072	988+60.3286	131.6518	L
3073	988+87.0263	129.3609	L
3074	989+19.6162	126.3969	L
3076	988+21.7602	84.5891	L
3077	988+55.9546	81.8364	L
3078	988+82.4188	79.5659	L
3079	989+41.4383	58.9866	L
3080	990+01.6977	52.7179	L
3081	988+19.1121	51.6929	L
3082	988+79.4220	46.6992	L
3083	988+76.8170	17.8151	L
3084	988+52.8268	19.8775	L
3085	988+51.2976	1.9423	L
3086	988+75.2133	0.1135	R
3087	989+07.0733	3.0098	R
3088	989+34.9237	5.6892	R
3089	989+63.2440	8.5556	R
3090	989+38.2627	27.6446	L
3091	989+66.7468	24.7613	L
3092	989+98.1950	21.4106	L
3093	989+44.8645	92.4161	L
3094	990+05.4768	86.1098	L

BASELINE NO.1 CURVE NO.3 DATA
P.I. STA.985+04.94
DELTA = 13°25'26"LT.
Dc = 1°00'00"
R = 5,729.58'
T = 674.27'
L = 1342.38'
CH = 1339.31'
E = 39.54'

R/W SHEET INDEX

		26	28	30	32	35	37
23	24	25	27	29	31	34	36
						33	

Dist. 2288	Removed Structure from Parcel 136-WL	
REV. DATE	DESCRIPTION	
	COMPLETION DATE - 2-9-84	

SCALE IN FEET
0 20 40 60

NOTE - LOT NUMBERS REFER TO ORIGINAL PLAT, DEED BOOK 3, PG. 1060

R/W SHEET Nº 32 OF 37

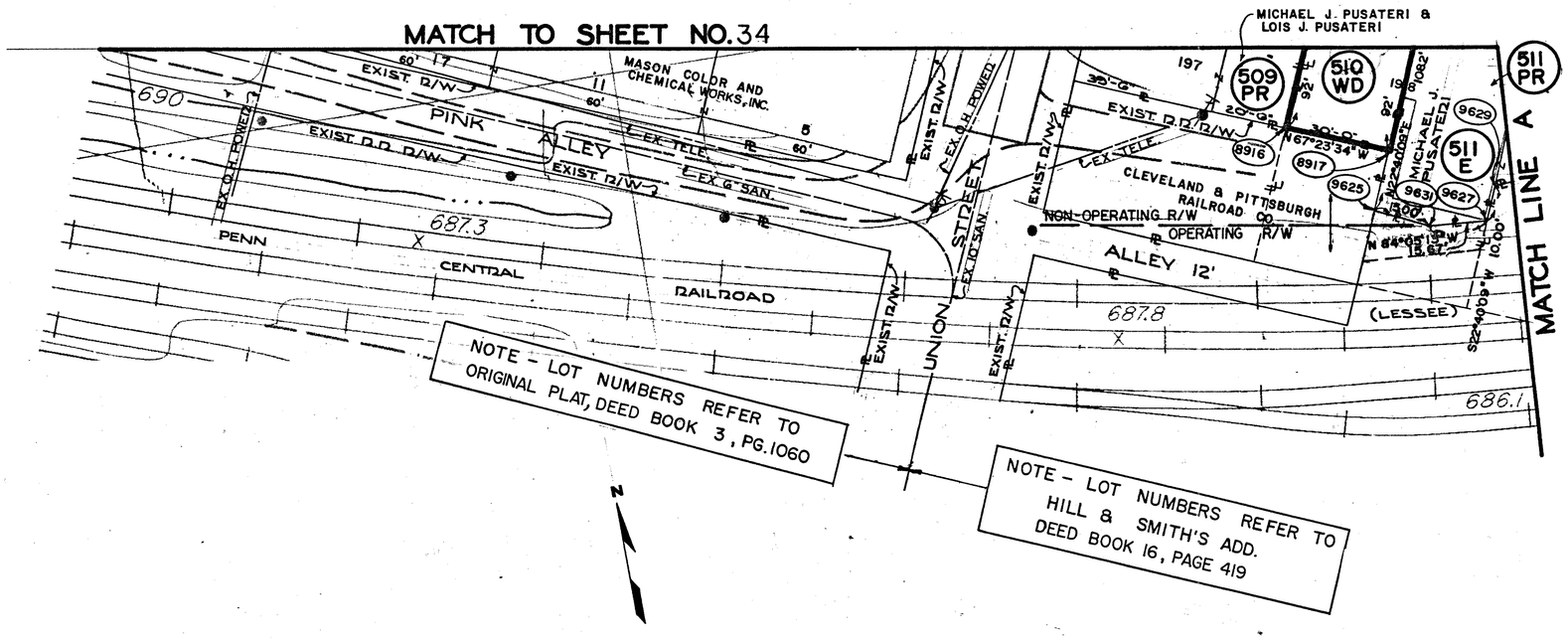
R/W STA 985+00 TO STA 990+00 LT

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457( )	

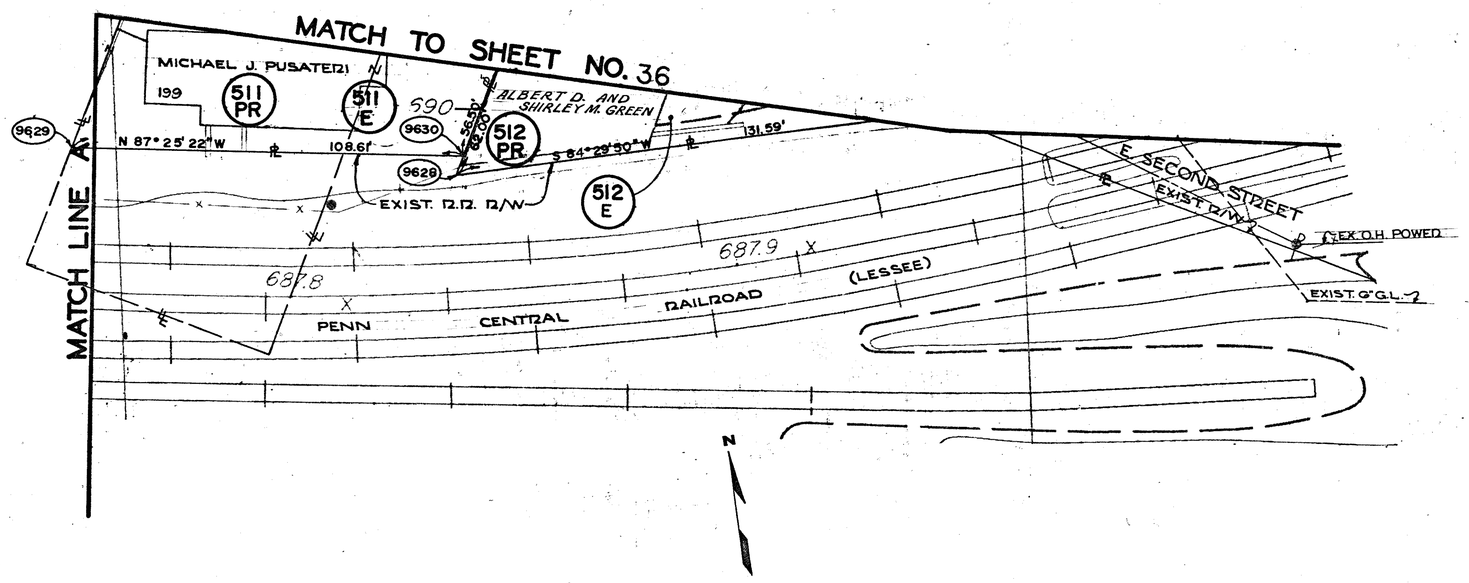
358
362

33
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL



POINT	STATION	OFFSET	
8916	994+57.8091	397.5541	R
8917	994+83.4554	404.2841	R
9627	995+06.5636	422.6388	R
9628	996+02.0019	408.0756	R
9629	995+08.6401	412.9260	R
9630	996+03.3029	402.7799	R
9631	994+92.9348	423.4992	R



R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
Dist. 2-11-85		Rev. Bearing on South Line of Parcel 512
Dist. 2-28-85		Removed Structure from Parcel 509-PR and Revised Ownership of Parcel 512-PR.

COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

NOTE: FOR ℄ SURVEY ℄ Nº 1 CURVE DATA SEE SHT. Nº 35

STATE JOB Nº	FHWA REGION	STATE	PROJECT		
11829 (U)	5	OHIO	U-457		

359
362
34
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

POINT	STATION	OFFSET	
1332	990+53.9648	18.7036	R
1333	992+31.8279	42.5502	R
1334	992+55.5076	45.8831	R
1335	994+28.2627	79.2487	R
1344	990+51.3488	40.5289	R
1345	992+28.7403	64.3145	R
1347	992+52.4200	67.6483	R
1348	994+23.7828	100.7408	R
1357	990+36.2742	169.6196	R
1358	992+10.4817	193.0269	R
1359	992+34.1615	196.3598	R
1360	993+98.5640	227.9779	R
2085	994+66.2085	97.9035	R
2088	994+61.4678	109.3328	R
2091	994+34.7734	236.2155	R
2137	993+52.9903	213.0851	R
2138	994+18.3686	127.1474	R
2143	994+88.7138	249.4945	R
2556	994+76.1700	307.8946	R
2557	995+02.4993	314.8153	R
4018	991+72.4172	34.1875	R
4019	991+77.0482	1.5146	R
4020	992+36.4627	9.8773	R
4021	993+12.6167	76.1211	R
4022	993+09.3161	99.3882	R
4023	992+85.1542	95.9873	R
4024	992+70.1963	201.4318	R
4025	992+94.3581	204.8326	R
4028	992+62.6728	11.7297	R
4029	992+60.9851	7.2696	R
4030	992+60.4233	11.2300	R
4031	993+19.8377	19.5927	R
4032	993+14.9219	54.2458	R
4033	993+83.4657	1.7474	R
4035	994+41.8999	15.7440	R
4036	994+14.1252	148.1824	R
4037	993+64.4370	132.3929	R
4038	993+61.9245	115.3345	R
4039	993+74.7756	216.1514	R
4040	993+74.7239	161.7144	R
4041	993+54.2340	157.5756	R
4042	993+71.2489	84.3736	R
4056	994+84.5650	181.6544	R
4057	994+70.7851	244.9458	R
4061	994+53.0147	148.3453	R
3909	992+23.2124	256.0155	R
8910	993+87.6118	286.7787	R
8911	994+23.1764	294.8622	R
9027	990+46.6392	80.2434	R

NOTE: THE ALTERNATE STATIONING OF TANGENT METHOD IS USED AS A SUBSTITUTE FOR TRANSITION SPRIALS. THIS METHOD CONSIST OF THE EXTENSION AND STATIONING FORWARD OF THE BACK TANGENT AT THE BEGINNING OF THE TRANSITION SPRIAL. THE BACK TANGENT IS EXTENDED TO COVER THE LENGTH OF THE TRANSITION SPRIAL.

HILL & SMITH'S ADD.
DEED BOOK 16, PAGE 419
STA 995+02.50
314.82' Rt.

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
							33

Dist II 11-7-84	Added and Revised Sewer Line.
Dist. 2-28-84	Removed Structure from Par. 509-PR
DESCRIPTION	
COMPLETION DATE - 2-9-84	

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 34 OF 37

R/W STA. 990+25 TO STA. 995+00 RT.

STATE JOB Nº	FHWA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

360
362

35
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

BASELINE NO. 1 CURVE NO. 3 DATA
P.I. STA. 985+04.94
DELTA = 13°25'26" LT.
Dc = 1°00'00"
R = 5729.58'
T = 674.27'
L = 1342.38'
CH = 1339.31'
E = 39.54'

BASELINE NO. 1 CURVE NO. 4 DATA
DELTA = 3° 00'00" LT.
Δ1 = 1°00'00" Δ2 = 2°00'00"
D.1 = 1°00'00" D.2 = 2°00'00"
R1 = 5729.58' R2 = 2864.79'
LS = 200.00' T1 = 111.13'
Xm = 199.92' T2 = 88.91'
Ym = 4.65' Pm = 0.29'
L.C. = 199.98'

BASELINE NO. 1 CURVE NO. 5 DATA
P. I. STA. 1002+00.17
DELTA = 32°12'33" LT.
Dc = 2°00'00"
R = 2864.79'
T = 827.12'
L = 1610.45'
CH = 1589.33'
E = 117.01'

POINT	STATION	OFFSET	
1270	990+77.4311	169.8804	L
1271	994+69.8884	106.1844	L
1279	990+09.0491	117.3131	L
1280	990+69.8505	110.3379	L
1281	994+56.1515	47.6923	L
1310	993+00.4517	270.9451	L
1316	992+58.5134	145.5666	L
1317	992+82.1932	142.2337	L
1322	992+51.4909	85.5655	L
1323	992+75.6131	81.7741	L
2081	994+95.7119	38.6468	L
2135	993+36.0843	71.5734	L
3144	990+79.9942	189.7258	L
3145	991+61.9513	179.2957	L
3146	991+59.1013	159.4879	L
3183	993+41.6075	133.8710	L
3184	993+46.5233	168.5241	L
3185	994+09.1899	154.6909	L
3186	994+01.7204	120.4208	L
3187	993+49.3323	188.3259	L
3188	994+13.5435	174.2654	L
4015	990+83.8734	219.4916	L
4016	991+66.2647	209.0049	L
4017	991+90.9811	94.4955	L
4027	993+07.8790	76.4632	L
4034	993+96.3517	60.2455	L
4062	993+73.5014	258.2614	L
4063	993+11.9003	138.0523	L
4064	993+24.4004	226.1702	L
4065	992+94.6932	230.3515	L
8902	993+16.8161	172.7054	L
8904	993+19.6251	192.5072	L
8905	992+89.9179	196.6885	L
8906	994+80.5793	150.0103	L
8907	994+83.0021	159.7441	L
9771	991+69.2882	158.1094	L
9772	991+99.0990	153.9293	L
9773	991+70.7284	168.0110	L
9774	992+00.5035	163.8301	L
9775	992+59.9179	155.4675	L
9776	991+72.1738	177.9123	L
9777	992+01.9079	173.7310	L
9778	992+61.3224	165.3684	L
9779	992+83.5977	152.1345	L
9780	991+60.5238	169.3920	L
9781	993+14.2370	154.5246	L
9782	993.44.8764	156.9147	L
9783	993+46.8168	170.5929	L
9785	992+85.0365	162.2772	L
9786	993+15.6758	164.6672	L

NOTE: THE ALTERNATE STATIONING OF TANGENT METHOD IS USED AS A SUBSTITUTE FOR TRANSITION SPRIALS. THIS METHOD CONSIST OF THE EXTENSION AND STATIONING FORWARD OF THE BACK TANGENT AT THE BEGINNING OF THE TRANSITION SPRIAL. THE BACK TANGENT IS EXTENDED TO COVER THE LENGTH OF THE TRANSITION SPRIAL.

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
						33	

REV.	DATE	DESCRIPTION
Dist. III/1-786		Added and Revised Water and Sewer Lines.
Dist. III/6-786		Changed Par 173-U to 173A-U & Rev. Ownership.

COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

R/W SHEET Nº 35 OF 37

R/W STA. 990+00 TO STA. 995+00 RT.

STATE JOB Nº	FWHA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

361
362

36
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

MATCH TO SHEET Nº 37

STA.998+03.48 - ℄ Nº 1
STA.46+30.41 - BROADWAY

℄ SURVEY ℄ Nº 1 - CURVE Nº 5

N

CENTERLINE RELOCATED SECOND ST.
CURVE Nº 1 DATA
P.I. STA. 27+70.50
DELTA = 39°23'42" LT.
DC = 08°30'00"
R = 674.07'
T = 241.32'
L = 463.47'
CH = 454.40'
E = 41.89'

BASELINE Nº 1 CURVE Nº 5 DATA
P.I. STA. 1002+00.17
DELTA = 32°12'33" LT.
DC = 02°00'00"
R = 2864.79'
T = 827.12'
L = 1610.45'
CH = 1589.33'
E = 117.01'

POINT	STATION	OFFSET	
2082	997+27.2134	26.6740	R
2083	997+45.5838	32.8049	R
2084	997+75.2081	42.9993	R
2086	996+88.7224	150.4727	R
2087	997+06.6521	155.5780	R
2089	996+82.8540	171.4586	R
2090	997+00.1090	177.2967	R
2092	996+47.5546	295.8376	R
2093	996+64.5126	301.4455	R
2094	997+47.7150	330.8837	R
2095	997+62.1435	336.3204	R
2098	998+50.4553	306.2907	R
2144	995+42.1775	263.8650	R
2145	998+33.3050	241.9796	R
2146	998+14.8852	175.8701	R
2150	998+02.6931	133.7048	R
2151	997+09.8622	165.4454	R
2152	997+23.1970	207.1750	R
2472	996+66.0349	228.8068	R
2473	996+48.2782	223.0616	R
2474	996+64.4626	165.6042	R
2475	995+73.1389	138.1596	R
2476	996+12.6683	284.7091	R
2477	997+43.3573	272.6249	R
4050	995+22.6956	101.8497	R
4051	995+50.7350	109.2523	R
4052	995+78.6325	116.9383	R
4053	995+17.5727	123.1786	R
4054	995+08.4365	162.0118	R
4055	995+02.8446	186.2978	R
4058	998+41.0712	270.7617	R
4059	997+51.8625	301.1284	R
4067	996+46.3319	159.8707	R
4068	999+30.5153	328.1127	R

PARCEL ACQUIRED UNDER COL-30-36.18 PROJECT

R/W SHEET INDEX

23	24	26	28	30	32	35	37
		25	27	29	31	34	36
							33

REV. DATE	DESCRIPTION
Dist 2288	Revised Ownership on Parcel 512-PR.
	COMPLETION DATE - 2-9-84

SCALE IN FEET
0 20 40 60

END ACQUISITION
STA. 999+30.52
COL 30-35.29

MATCH TO SHEET Nº 34

MATCH TO SHEET Nº 33

R/W SHEET Nº 36 OF 37

R/W STA. 995+00 TO STA. 1000+00 RT.

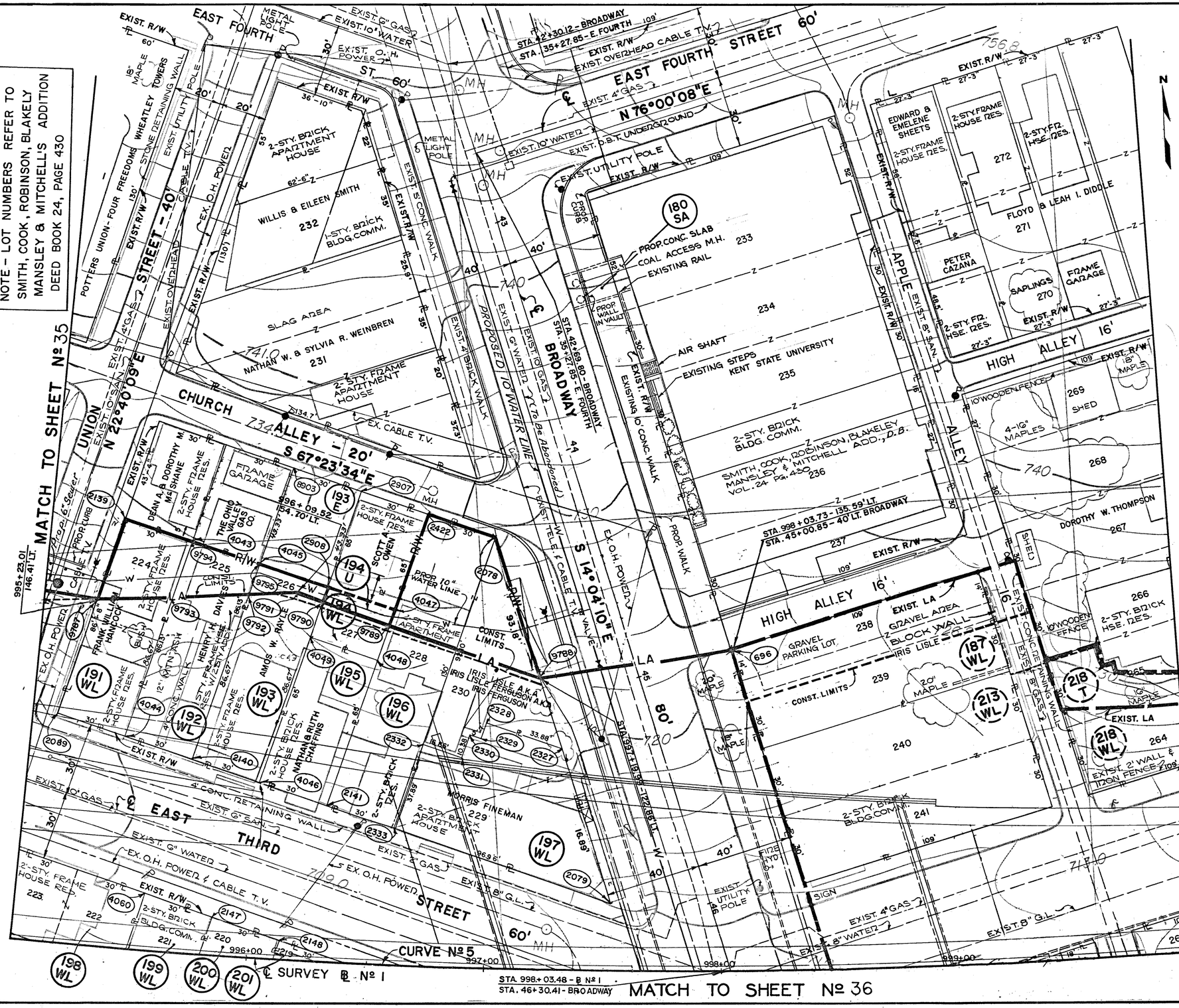
STATE JOB Nº	FWHA REGION	STATE	PROJECT	
11829 (0)	5	OHIO	U-457	

362
362

37
37

COL-30-35.29
R/W PLANS
LIMITED ACCESS
CITY OF EAST LIVERPOOL

NOTE - LOT NUMBERS REFER TO SMITH, COOK, ROBINSON, BLAKELY MANSLEY & MITCHELL'S ADDITION DEED BOOK 24, PAGE 430


EAST FOURTH STREET 60'
N 76°00'08"E
EXIST. R/W
EXIST. 10" WATER
EXIST. 4" GAS
EXIST. D.B.T. UNDERGROUND
EXIST. OVERHEAD CABLE T.V.
STA. 42+30.12 - BROADWAY
STA. 35+27.85 - E. FOURTH
EXIST. UTILITY POLE
METAL LIGHT POLE
EXIST. 12" GAS
EXIST. 10" WATER
EXIST. O.H. POWER
EXIST. 6" SAN.
EXIST. 8" CONC. WALK
EXIST. 4" BRICK WALK
EXIST. 6" WATER
EXIST. 10" GAS
PROPOSED 10" WATER LINE (To Be Abandoned)
EXIST. 4" CONC. RETAINING WALL
EXIST. 2" GAS
EXIST. 8" G.L.
EXIST. 8" WATER
EXIST. 6" SAN.
EXIST. 2" WALL & IRON FENCE
EXIST. 4" SAN.
EXIST. 8" SAN.
EXIST. 10" SAN.
EXIST. 4" GAS
EXIST. 8" WATER
EXIST. 8" G.L.
EXIST. 6

TE - 118
600 - 6 - 73

GEOLOGY OF THE SITE

THE RETAINING WALL SITES ARE LOCATED IN THE DEEPLY DISSECTED UNGLACIATED PORTION OF THE ALLEGHENY PLATEAU REGION, ON THE TERRACED FLOODPLAIN OF THE OHIO RIVER, IN AN AREA WHERE DEEP VALLEY AND ALLUVIAL DEPOSITS OVERLIE BEDROCK, OF PENNSYLVANIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF SIX DRIVE SAMPLE BORINGS MADE BY MEANS OF A MECHANICALLY-POWERED HOLLOW STEM AUGER MOUNTED ON A MOBILE PLATFORM, PERFORMED BETWEEN OCTOBER 6 AND 13, 1983.

INVESTIGATIONAL FINDINGS AND OBSERVATIONS

THE BORINGS ENCOUNTERED INTERVALS OF LOOSE TO EXTREMELY DENSE UNSTRATIFIED BASIC SAND AND GRAVEL MODIFIED WITH SILTS, CLAYS AND VARYING AMOUNTS OF EACH OTHER THAT RAPIDLY INCREASE (ERRATIC AT TIMES) IN DENSITY WITH INCREASE IN DEPTH. BORING B-1 PENETRATED TO A DEPTH OF 26.5 FEET, ELEVATION 675.7 FEET AND WAS TERMINATED AFTER PENETRATING IN EXCESS OF 14.0-FEET OF MATERIAL REQUIRING IN EXCESS OF 19 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST. BORING B-2 PENETRATED TO A DEPTH OF 26.5 FEET, ELEVATION 677.7 FEET AND WAS TERMINATED AFTER PENETRATING IN EXCESS OF 6.5 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST. BORING B-3 PENETRATED TO A DEPTH OF 25.5 FEET, ELEVATION 709.8 FEET AND WAS TERMINATED AFTER PENETRATING IN EXCESS OF 8.0 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST. BORING B-4 PENETRATED TO A DEPTH OF 41.5 FEET, ELEVATION 691.4 FEET AND WAS TERMINATED AFTER PENETRATING IN EXCESS OF 29.0 FEET OF MATERIAL REQUIRING 30 OR MORE BLOWS PER FOOT IN THE STANDARD PENETRATION TEST. BORING B-5 PENETRATED TO A DEPTH OF 26.5 FEET, ELEVATION 704.6 FEET AND WAS TERMINATED AFTER PENETRATING IN EXCESS OF 14.0 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST. BORING B-6 PENETRATED TO A DEPTH OF 41.5 FEET, ELEVATION 689.6 FEET AND WAS TERMINATED AFTER PENETRATING IN EXCESS OF 31.5 FEET OF MATERIAL REQUIRING 30 OR MORE BLOWS PER FOOT IN THE STANDARD PENETRATION TEST.

BEDROCK SURFACE WAS NOT ENCOUNTERED IN ANY OF THE TEST BORINGS PERFORMED.

FREE WATER WAS OBSERVED AND MEASURED IN BORING B-6 AT 35.0-FOOT DEPTH, ELEVATION 696.1 FEET. NO FREE WATER OBSERVATIONS WERE MADE IN BORINGS B-1, B-2, B-3, B-4 OR B-5, DURING, OR AT THE CONCLUSION OF DRILLING OPERATIONS.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y/Z — Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  - X = Number of Blows for First 6 inches.
  - Y = Number of Blows for Second 6 inches.
  - Z = Number of Blows for Third 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Mudstone or Claystone
- Mudstone or Claystone
- Weathered Shale
- Shale
- Weathered Siltstone
- Siltstone
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone
- Boulders or Cobbles

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 18 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in three 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system-and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)	0.074mm (No. 200 sieve)	0.005mm	

NOTE - ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN ON THE STRUCTURE FOUNDATION INVESTIGATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE INVESTIGATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE BUREAU OF TESTS AT 1600 WEST BROAD STREET, THE PAVEMENT AND SOILS SECTION OF THE BUREAU OF LOCATION AND DESIGN OR IN THE BRIDGE BUREAU AT 25 SOUTH FRONT STREET.

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS — TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

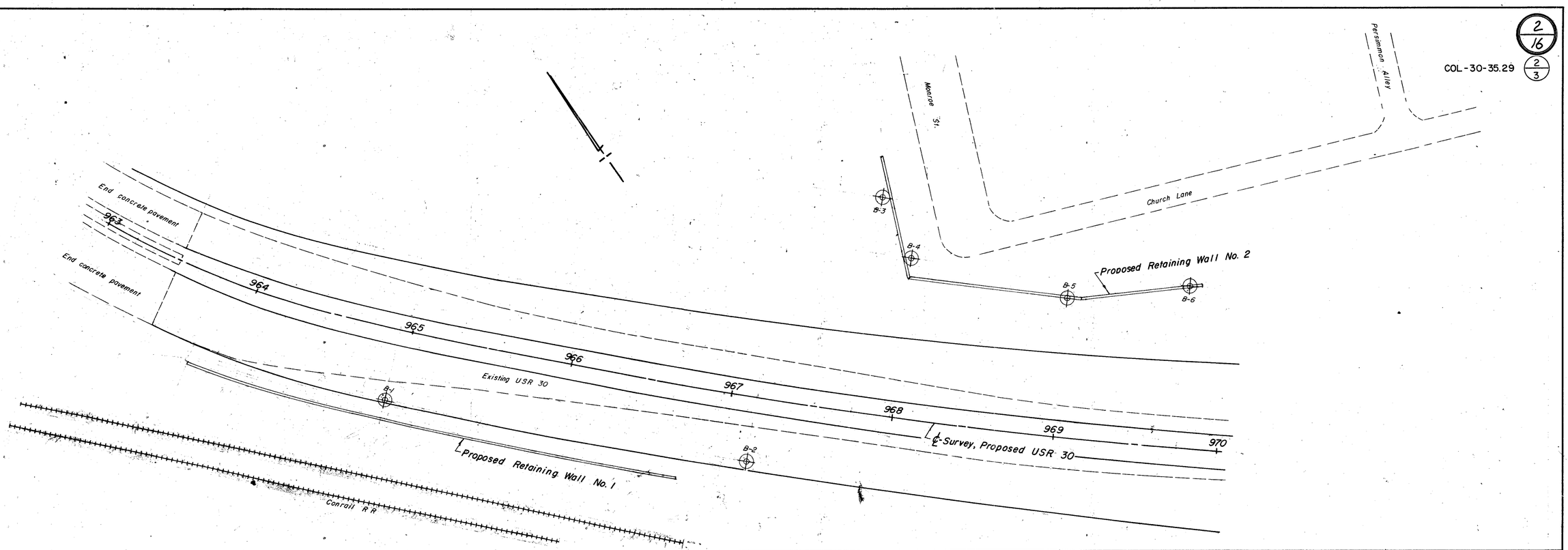
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. COL-30-
RETAINING WALLS Nos 1 & 2
SEC. COL-30-35.29

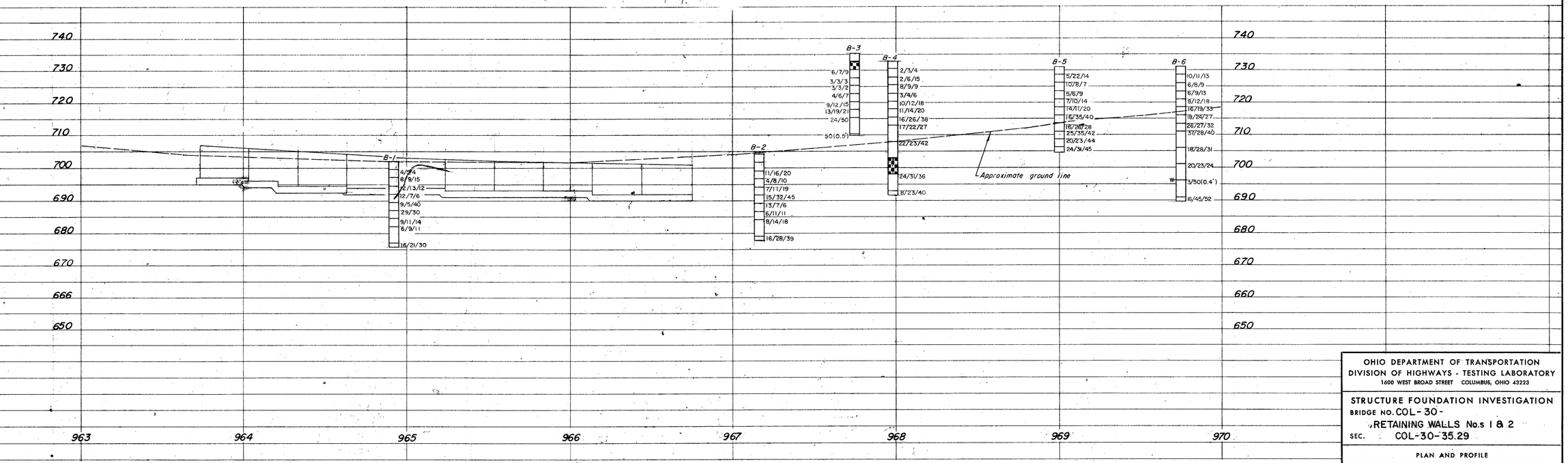
CHECKED BY	REVIEWED BY	DATE
L. N. L.	R. D. R.	10/31/83

TE-120
200-10-73

2/16

COL-30-35.29 2/3





SCALE: 1" = 30' HOR.
1" = 15' VER.

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. COL-30-
RETAINING WALLS Nos 1 & 2
SEC. COL-30-35.29

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
A. F.	L. N. L.	R. D. R.	10/31/83

TE-122
400-12-72

3/16

COL-30-35.29 3/3

LOG OF BORING

Date Started 10/11/83 | Sampler Type SS | Dia. 1 3/8" | Water Elev. DRY
Date Completed 10/12/83 | Casing: Length | Dia.
Boring No. B-1 | Station & Offset 964+92 45' RT. (RETAINING WALL #1) | Surface Elev. 702.2'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
702.2	0				SOD										VISUAL
702.0	2	AUGERED			BROWN SILTY SAND AND GRAVEL WITH BRICK BATS	-	-	-	-	-	-	-	-	-	VISUAL
699.7	4	4/5/4			DARK BROWN SANDY GRAVEL AND FINES WITH BRICK BATS	1	34	18	17	21	10	NP	NP	12	VISUAL
697.2	6	8/9/15			BROWN SANDY GRAVEL WITH BRICK BATS	2	65	7	10	12	6	NP	NP	7	VISUAL
694.7	8	12/13/12			BROWN SILTY SANDY GRAVEL	3	64	10	12	8	6	NP	NP	14	A-1-a
692.2	10	12/7/6			BROWN SILTY SANDY GRAVEL	4	62	16	12	6	4	NP	NP	8	A-1-a
689.7	12	9/5/40			BROWN SILTY GRAVELLY SAND	5	38	13	22	21	6	NP	NP	16	A-2-4
687.2	14	29/30			BROWN SILTY SANDY GRAVEL	6	66	13	10	8	3	NP	NP	6	A-1-a
684.7	16	9/11/14			BROWN SANDY GRAVEL	7	72	11	8	6	3	NP	NP	5	A-1-a
682.2	18	6/9/11			BROWN GRAY SANDY GRAVEL	8	72	14	7	4	3	NP	NP	5	A-1-a
	20														
	22														
677.2	24														
675.7	26	16/21/30			BROWN SANDY GRAVEL	9	53	25	14	5	3	NP	NP	7	A-1-a

BOTTOM OF BORING

LOG OF BORING

Date Started 10/12/83 | Sampler Type SS | Dia. 1 3/8" | Water Elev. DRY
Date Completed 10/13/83 | Casing: Length | Dia.
Boring No. B-2 | Station & Offset 967+16 39' RT. (RETAINING WALL #1) | Surface Elev. 704.2'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
704.2	0				SOD										VISUAL
704.0	2	AUGERED			SAND WITH GRAVEL	-	-	-	-	-	-	-	-	-	VISUAL
701.7	4	AUGERED			BLACK SANDY GRAVEL	10	76	16	5	1	2	NP	NP	6	A-1-a
699.2	6	11/16/20			BROWN SANDY GRAVEL	11	52	24	15	5	4	NP	NP	5	A-1-a
696.7	8	4/8/10			BROWN AND GRAY SANDY GRAVEL	12	46	34	13	3	4	NP	NP	6	A-1-b
694.2	10	7/11/19			BROWN AND GRAY SANDY GRAVEL	13	60	20	12	5	3	NP	NP	5	A-1-a
691.7	12	15/32/45			BROWN SANDY GRAVEL	14	51	31	10	4	4	NP	NP	5	A-1-a
689.2	14	13/7/6			BROWN AND GRAY SANDY GRAVEL	15	71	12	9	5	3	NP	NP	5	A-1-a
686.7	16	6/11/11			BROWN AND GRAY SANDY GRAVEL	16	80	8	5	4	3	NP	NP	7	A-1-a
684.2	18	8/14/18			BROWN AND GRAY SANDY GRAVEL	17	77	11	5	4	3	NP	NP	6	A-1-a
	20														
	22														
679.2	24														
677.7	26	16/28/39			BROWN AND GRAY SANDY GRAVEL	18	58	24	11	4	3	NP	NP	7	A-1-a

BOTTOM OF BORING

LOG OF BORING

Date Started 10/6/83 | Sampler Type SS | Dia. 1 3/8" | Water Elev. DRY
Date Completed 10/11/83 | Casing: Length | Dia.
Boring No. B-3 | Station & Offset 967+74 133' LT. (RETAINING WALL #2) | Surface Elev. 735.3'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
735.3	0				SOD										VISUAL
735.1	2	AUGERED			BROWN SILTY SAND WITH GRAVEL	-	-	-	-	-	-	-	-	-	VISUAL
732.8	4	AUGERED			NO SAMPLE RECOVERED - BOULDERS	-	-	-	-	-	-	-	-	-	VISUAL
730.3	6	6/7/9			BROWN AND GRAY SILTY SANDY GRAVEL	1	68	10	9	7	6	NP	NP	11	A-1-a
727.8	8	3/3/3			BROWN SILTY SANDY GRAVEL	2	58	16	10	8	8	NP	NP	12	A-1-b
725.3	10	3/3/2			BROWN SILTY SANDY GRAVEL	3	52	30	7	7	4	NP	NP	12	A-1-a
722.5	12	4/6/7			BROWN SILTY SANDY GRAVEL	4	54	24	12	6	4	NP	NP	10	A-1-a
720.3	14	9/12/15			BROWN AND GRAY SILTY SANDY GRAVEL	5	54	26	9	7	4	NP	NP	8	A-1-a
717.8	16	13/19/21			BROWN SANDY GRAVEL	6	69	16	7	5	3	NP	NP	7	A-1-a
715.3	18	24/50			BROWN SANDY GRAVEL	7	63	21	8	5	3	NP	NP	6	A-1-a
	20														
	22														
710.3	24														
709.8	26	50(0.5')			BROWN SANDY GRAVEL	8	67	18	10	3	2	NP	NP	4	A-1-a

BOTTOM OF BORING

LOG OF BORING

Date Started 10/12/83 | Sampler Type SS | Dia. 1 3/8" | Water Elev.
Date Completed 10/13/83 | Casing: Length | Dia.
Boring No. B-4 | Station & Offset 967+98 99' LT. (RETAINING WALL #2) | Surface Elev. 732.9'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
732.9	0				SOD										VISUAL
732.7	2	AUGERED			BROWN SAND AND GRAVEL WITH STONE FRAGMENTS	-	-	-	-	-	-	-	-	-	VISUAL
730.4	4	2/3/4			BROWN SILTY SANDY GRAVEL	31	51	11	12	18	8	NP	NP	9	A-2-4
727.9	6	2/6/15			BROWN SILTY SANDY GRAVEL	32	64	7	10	13	6	NP	NP	12	A-1-b
725.4	8	8/9/9			BROWN SANDY GRAVEL	33	66	20	5	4	5	NP	NP	9	A-1-a
722.9	10	3/4/6			BROWN SANDY GRAVEL	34	59	29	5	3	4	NP	NP	9	A-1-a
720.4	12	10/12/18			BROWN AND GRAY SANDY GRAVEL	35	64	19	9	5	3	NP	NP	8	A-1-a
717.9	14	11/14/20			BROWN SANDY GRAVEL	36	52	32	7	6	3	NP	NP	6	A-1-a
715.4	16	16/26/38			BROWN AND GRAY SILTY SANDY GRAVEL	37	52	27	10	7	4	NP	NP	5	A-1-a
712.9	18	17/22/27			BROWN SILTY SANDY GRAVEL	38	59	23	11	5	2	NP	NP	5	A-1-a
	20														
	22														
707.9	24														
	26	22/23/42			BROWN GRAVELLY SAND	39	45	36	12	6	1	NP	NP	5	A-1-b
	28														
702.9	30	—			NO SAMPLE RECOVERED - COBBLES	-	-	-	-	-	-	-	-	-	VISUAL
	32														
	34														
697.9	36	24/31/36			BROWN GRAVELLY SAND	40	48	36	8	6	2	NP	NP	3	A-1-b
	38														
692.9	40														
691.4		8/23/40			BROWN GRAVELLY SAND	41	69	16	8	5	2	NP	NP	5	A-1-a

BOTTOM OF BORING

LOG OF BORING

Date Started 10/6/83 | Sampler Type SS | Dia. 1 3/8" | Water Elev. DRY
Date Completed 10/11/83 | Casing: Length | Dia.
Boring No. B-5 | Station & Offset 969+00 86' LT. (RETAINING WALL #2) | Surface Elev. 731.1'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
731.1	0				SOD										VISUAL
730.9	2	AUGERED			SILTY SANDY GRAVEL WITH STONE FRAGMENTS	-	-	-	-	-	-	-	-	-	VISUAL
728.6	4	5/22/14			BROWN AND GRAY SILTY SANDY GRAVEL	9	57	15	13	8	7	NP	NP	8	A-1-a
726.1	6	10/8/7			BROWN SILTY SANDY GRAVEL	10	72	9	9	4	6	NP	NP	11	A-1-a
723.6	8	5/6/9			BROWN SANDY GRAVEL	11	62	21	8	5	4	NP	NP	8	A-1-a
721.1	10	7/10/14			BROWN SANDY GRAVEL	12	55	27	9	6	3	NP	NP	8	A-1-a
718.6	12	14/11/20			BROWN SANDY GRAVEL	13	66	19	8	3	4	NP	NP	6	A-1-a
716.1	14	16/35/40			BROWN SANDY GRAVEL	14	52	32	8	4	4	NP	NP	6	A-1-a
713.6	16	16/26/28			BROWN GRAVELLY SAND	15	42	38	11	4	5	NP	NP	5	A-1-b
711.1	18	25/35/42			BROWN SANDY GRAVEL	16	56	27	10	5	2	NP	NP	4	A-1-a
708.6	20	20/23/44			BROWN AND GRAY SANDY GRAVEL	17	59	25	9	4	3	NP	NP	4	A-1-a
706.1	22	24/31/45			BROWN SANDY GRAVEL	18	49	35	8	5	3	NP	NP	4	A-1-b
704.6	24														

BOTTOM OF BORING

LOG OF BORING

Date Started 10/11/83 | Sampler Type SS | Dia. 1 3/8" | Water Elev. 696.1'
Date Completed 10/12/83 | Casing: Length | Dia.
Boring No. B-6 | Station & Offset 969+75 100' LT. (RETAINING WALL #2) | Surface Elev. 731.1'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
731.1	0				SOD										VISUAL
730.9	2	AUGERED			BROWN SANDY GRAVEL WITH STONE FRAGMENTS	-	-	-	-	-	-	-	-	-	VISUAL
728.6	4	10/11/13			BROWN SILTY SANDY GRAVEL	19	65	12	7	9	7	NP	NP	8	A-1-b
726.1	6	6/8/9			BROWN SANDY GRAVEL	20	65	16	11	5	3	NP	NP	6	A-1-a
723.6	8	6/9/13			BROWN AND GRAY SANDY GRAVEL	21	59	25	8	4	4	NP	NP	7	A-1-a
721.1	10	8/12/18			BROWN SILTY SANDY GRAVEL	22	58	22	10	7	3	NP	NP	6	A-1-a
718.6	12	16/19/33			BROWN AND GRAY SANDY GRAVEL	23	57	27	7	5	4	NP	NP	7	A-1-a
716.1	14	18/24/27			BROWN AND GRAY SANDY GRAVEL	24	66	17	10	5	2	NP	NP	6	A-1-a
713.6	16	26/27/32			BROWN SANDY GRAVEL	25	48	35	7	5	5	NP	NP	5	A-1-b
711.1	18	37/28/40			BROWN SANDY GRAVEL	26	59	23	10	5	3	NP	NP	4	A-1-a
	20														
	22														
706.1	24														
	26	18/28/31			BROWN AND GRAY SANDY GRAVEL	27	65	21	8	4	2	NP	NP	5	A-1-a
	28														
701.1	30														
	32	20/23/24			BROWN AND GRAY SANDY GRAVEL	28	64	22	8	3	3	NP	NP	4	A-1-a
	34														
696.1	36	3/50(0.4')			BROWN GRAVELLY SILT	29	21	2	8	60	9	NP	NP	27	A-4b
	38														
691.1	40														
689.6		16/45/52			BROWN SANDY GRAVEL	30	66	18	8	5	3	NP	NP	4	A-1-a

BOTTOM OF BORING

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. COL-30-
RETAINING WALLS Nos 1 & 2
SEC. COL-30-35.29

BORING DATA

TYPED BY	CHECKED BY	REVIEWED BY	DATE
S. M. G.	L. N. L.	R. D. R.	10/31/83

GEOLOGY AND OBSERVATIONS OF THE SITE
THE STRUCTURE SITE IS LOCATED IN THE UNGLACIATED DISSECTED ALLEGHENY PLATEAU REGION, ON THE TERRACED PORTION OF THE FLOODPLAIN OF THE OHIO RIVER, IN AN AREA WHERE MODERATELY DEEP VALLEY FILL OVERLIES SHALE AND SANDSTONE BEDROCK, OF PENNSYLVANIAN AGE.

EXPLORATION
THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE BORINGS AND THREE DRIVE ROD PENETRATION TESTS, MADE BETWEEN JULY 12 AND 18, 1972.

INVESTIGATIONAL FINDINGS
THE BORINGS ENCOUNTERED DENSE AND VERY DENSE SANDY SILTS, AND GRAVELS WITH COBBLES. THE BORINGS WERE TERMINATED AT 41 AND 55-FOOT DEPTHS, ELEVATIONS 674 AND 664 FEET, AFTER PENETRATING IN EXCESS OF 20 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST.

ROD SOUNDINGS ENCOUNTERED GRADUAL INCREASE IN PENETRATION RESISTANCE WITH INCREASE IN DEPTH AND WERE TERMINATED GENERALLY UPON ENCOUNTER WITH REFUSAL AND HIGH RESISTANCE TO PENETRATION AT 33 TO 52-FOOT DEPTHS, ELEVATIONS 679 TO 671 FEET, CONSIDERED TO BE IN VERY DENSE MATERIAL, AS REVEALED BY THE BORINGS.

NO FREE WATER OBSERVATIONS WERE MADE IN ANY OF THE ROD SOUNDING HOLES.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  X = Number of Blows for First 6 inches.
  Y = Number of Blows for Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Mudstone or Claystone
- Mudstone or Claystone
- Weathered Shale
- Shale
- Weathered Siltstone
- Siltstone
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone
- Boulders or Cobbles

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)	0.074mm (No. 200 sieve)	0.005mm	

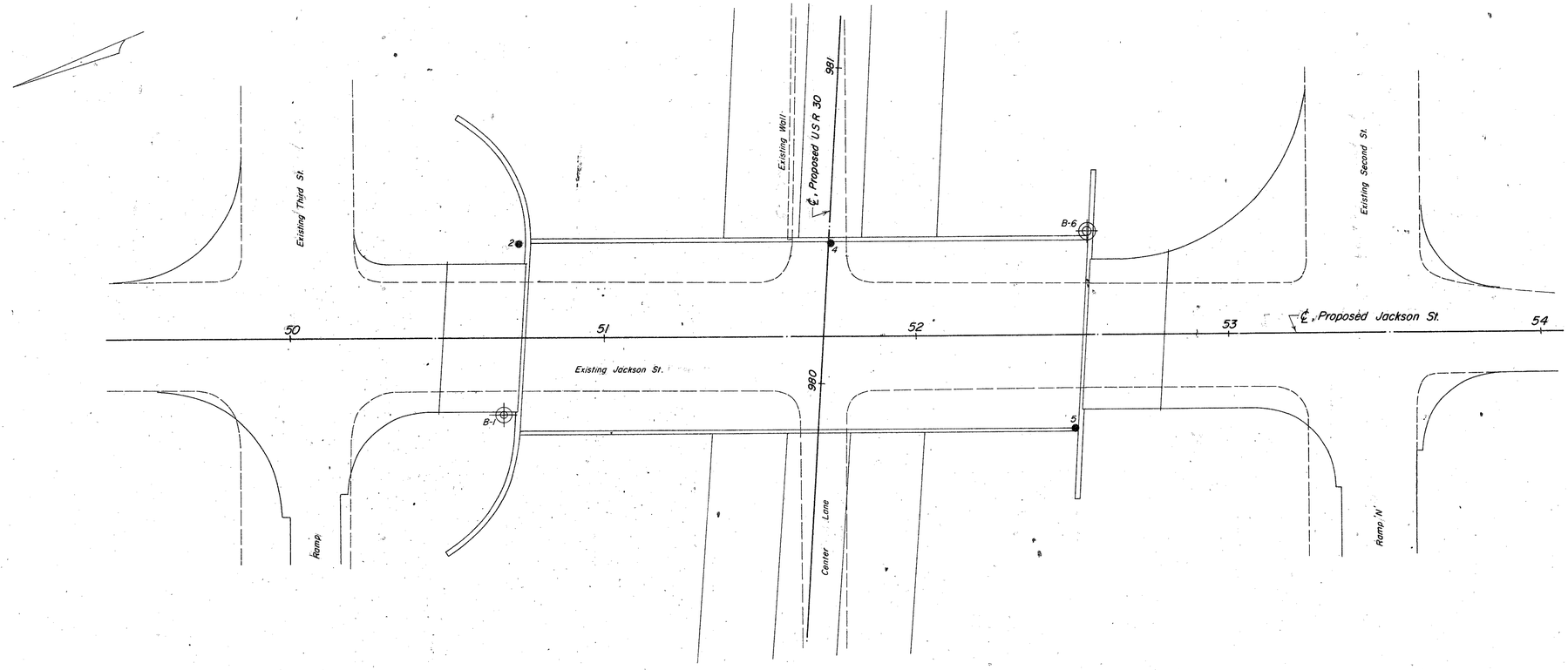
NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

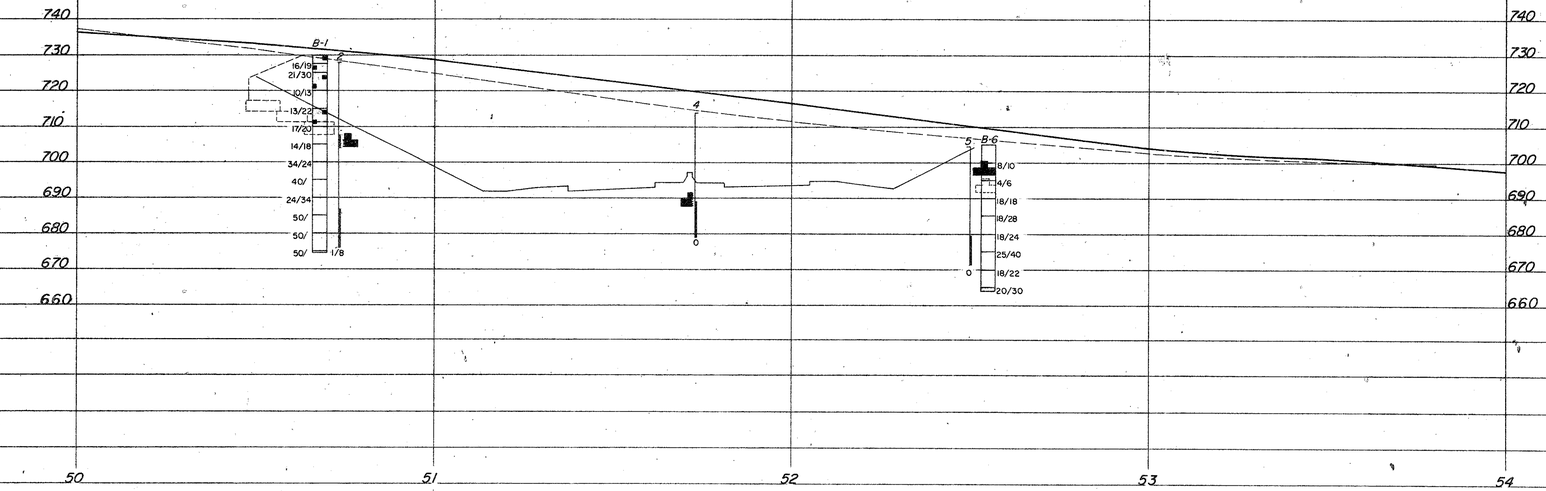
OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. COL-30-3560
UNDER JACKSON ST.
SEC. COL-30-35.29

CHECKED BY	REVIEWED BY	DATE
R. D. R.	G. P. H.	7/31/72

TE - 119
1000 - 12- 69





SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS TESTING LABORATORY 1600 WEST BROAD STREET, COLUMBUS, OHIO 43223			
STRUCTURE FOUNDATION INVESTIGATION			
BRIDGE NO. COL-30-3560 UNDER JACKSON ST.			
SEC. COL - 30-35.29			
PLAN AND PROFILE			
DRAWN BY L. N. L.	CHECKED BY R. D. R.	REVIEWED BY G. P. H.	DATE 7/31/72

TE - 122
600 - 4 - 66

6/16

COL-30-35.29 3/4

LOG OF BORING

Date Started 7-12-72 | Sampler Type SS | Dia 1 3/8" | Water Elev. ——
Date Completed 7-18-72 | Casing: Length 55' | Dia 3 1/2"
Boring No. B-1 | Station & Offset 50+68, 25' RT. (REAR ABUTMENT) | Surface Elev. 730.0'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics: % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
730.0	0														
727.5	2														
725.0	4	16/19			BROWN SILTY SANDY GRAVEL WITH COBBLES	1	67	12	9	7	5	NP	NP	12	A-1-a
	6	21/30			GRAY SANDY GRAVEL WITH COBBLES	2	75	12	6	-	7	-	NP	NP	12	A-1-a
720.0	8														
	10	10/13			BROWN SANDY GRAVEL	3	74	14	5	-	7	-	NP	NP	12	A-1-a
715.0	12														
	14														
	16	13/22			BROWN SILTY SANDY GRAVEL WITH COBBLES	4	63	17	9	-11	-	NP	NP	9	A-1-a
710.0	18														
	20	17/20			BROWN SILTY SANDY GRAVEL	5	54	18	15	-13	-	NP	NP	12	A-1-a
705.0	22														
	24														
	26	14/18			GRAY SILTY SANDY GRAVEL	6	61	13	10	9	7	23	8	11	A-2-4
700.0	28														
	30	34/24			BROWN SILTY SANDY GRAVEL	7	52	16	13	14	5	NP	NP	10	A-1-b
	32														
695.0	34														
	36	40/			BROWN SILTY SANDY GRAVEL	8	68	12	9	-11	-	NP	NP	10	A-1-a
690.0	38														
	40														
	42	24/34			BROWN SILTY SANDY GRAVEL	9	58	17	14	-11	-	NP	NP	13	A-1-a
685.0	44														
	46	50/			BROWN SILTY SANDY GRAVEL	10	45	29	16	-10	-	NP	NP	18	A-1-b
680.0	48														
	50	50/			BROWN SILTY SANDY GRAVEL	11	44	20	20	-16	-	NP	NP	9	A-1-b
675.0	52														
674.5	54	50/			GRAY SILTY SANDY GRAVEL	12	67	14	10	-	9	-	NP	NP	10	A-1-a

BOTTOM OF BORING

LOG OF BORING

Date Started 7-13-72 | Sampler Type SS | Dia 1 3/8" | Water Elev. ——
Date Completed 7-13-72 | Casing: Length 35' | Dia 3 1/2"
Boring No. B-6 | Station & Offset 52+55, 33' LT. (FORWARD ABUTMENT) | Surface Elev. 705.0'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics: % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
705.0	0				CONCRETE										
704.6	2														
	4														
700.0	6	8/10			BROWN SANDY SILT	1	0	1	36	44	19	NP	NP	17	A-4a
	8														
695.0	10														
	12	4/6			BROWN SANDY SILT	2	0	1	49	34	16	NP	NP	22	A-4a
690.0	14														
	16	18/18			BROWN SILTY SANDY GRAVEL	3	68	19	7	-	6	-	NP	NP	14	A-1-a
685.0	18														
	20	18/28			BROWN GRAVEL	4	82	6	6	-	6	-	NP	NP	14	A-1-a
	22														
680.0	24														
	26	18/24			BROWN SILTY SANDY GRAVEL	5	70	8	8	9	5	NP	NP	7	A-1-a
	28														
675.0	30	25/40			GRAY SILTY SANDY GRAVEL	6	67	22	8	-	3	-	NP	NP	12	A-1-a
	32														
670.0	34														
	36	18/22			GRAY SILTY SANDY GRAVEL	7	58	29	11	-	2	-	NP	NP	19	A-1-a
	38														
665.0	40														
664.0		20/30			GRAY SILTY GRAVELLY SAND	8	33	37	22	-	8	-	NP	NP	20	A-1-b

BOTTOM OF BORING

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. COL-30-3560
UNDER JACKSON ST.
SEC. COL-30-35.29

BORING DATA

TYPED BY	CHECKED BY	REVIEWED BY	DATE
S.A.C.	R.D.R.	G.P.H.	7/31/72

Test Location No.	Station & Offset	Surface Elev.	Water Elev.	Piling	Hammer	Formula	Reference	Rod Condition
1		738						
2	50+73 30'LT REAR ABUTMENT	728.0'						
3								
4	51+73 30'LT PIER	714.0'						
5	52+51 30'RT FORWARD ABUTMENT	704.6						

COL-30-35.29 (4/4)

(7/16)

Capacity "R" in Thousands of Pounds

TEST ROD

OHIO STATE HIGHWAY TESTING LABORATORY
1600 WEST BROAD ST. COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. COL-30-3560
UNDER JACKSON ST
SEC. COL-30-35 29

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R C	R D R.	G P H	7/31/72

TE-95
500-7-68

GENERAL INFORMATION

INTRODUCTION

THIS REPORT CONSISTS OF THE SOILS INVESTIGATION OF 0.53 MILE OF PROPOSED USR 30, BEGINNING ON EXISTING USR 30 (RIVER LAKE HIGHWAY) IMMEDIATELY EAST OF THE NEWELL BRIDGE, EXTENDING EASTWARD AND TERMINATING IMMEDIATELY EAST OF WASHINGTON STREET, BETWEEN SECOND AND THIRD STREETS. INCLUDED IN THIS REPORT ARE SOIL PROFILES OF RAMPS L AND N.

PROPOSED GRADES INDICATE THE FOLLOWING MAXIMUM PROPOSED CUTS AND FILL EMBANKMENTS.

	CUTS (MAX.)	FILL EMBANKMENTS (MAX.)
USR 30	35'	14'
RAMP L	37'	-
RAMP N	10'	3'

GEOLOGY OF THE PROJECT

THE PROJECT IS LOCATED ON THE FLOODPLAIN OF THE OHIO RIVER, IN AN AREA WHERE THICK ALLUVIAL AND OUTWASH DEPOSITS OVERLIE SHALE AND SANDSTONE BEDROCK, OF PENNSYLVANIAN AGE.

EXPLORATION

EXPLORATORY BORINGS WERE MADE BY MEANS OF TRUCK-MOUNTED MECHANICAL SOIL AUGER, HAND AUGER (IN DIFFICULT ACCESS AREAS) AND ROTARY TYPE DRILL RIG, BETWEEN JULY 12 AND 20, 1972. INCLUDED IN THIS REPORT ARE LOGS OF BORINGS MADE FOR THE STRUCTURE FOUNDATION INVESTIGATIONS ON THE PROJECT.

INVESTIGATIONAL FINDINGS

MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINANTLY COMPRISED OF GRAVELS (A-1-a), SANDY GRAVELS (A-1-b, A-2-4 AND A-2-6) AND SANDY SILTS (A-4a), GENERALLY HAVING LOW MOISTURE CONTENTS AND MOISTURE CONTENTS IN THE LOWER PORTIONS OF THE PLASTIC RANGE.

WET MATERIALS WERE ENCOUNTERED AT USR 30 STATIONS 980+52, 988+00, 989+20 AND 990+40.

RANDOM FILL MATERIAL COMPRISED OF CINDERS AND BRICKBATS WAS ENCOUNTERED AT USR 30 STATIONS 997+30 AND 987+15, AND RAMP N STATION 977+94.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS— 52 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL		A-1-a	60	23	8	6	3	NP	NP	7	10
GRAVEL WITH SAND		A-1-b	44	26	18	9	3	NP	NP	8	2
COARSE AND FINE SAND		A-3a	0	2	65	24	9	NP	NP	13	1
GRAVEL OR STONE FRAGMENTS WITH SAND AND SILT		A-2-4	53	12	12	15	8	23	6	11	7
GRAVEL WITH SAND, SILT, AND CLAY		A-2-6	64	14	6	9	7	30	14	12	11
SANDY SILT		A-4a	3	2	43	39	13	NP	NP	16	15
SILT		A-4b	0	3	20	57	20	NP	NP	19	2
CINDERS					VISUAL CLASSIFICATION						2
COBBLES OR BOULDERS					VISUAL CLASSIFICATION						-
RANDOM FILL					VISUAL CLASSIFICATION						2
VARIOUS OTHER MATERIALS					VISUAL CLASSIFICATION						-

TOPSOIL=X'=APPROXIMATE DEPTH.

BERM MATERIAL.

AUGER BORING-PLAN VIEW.

DRIVE SAMPLE AND/OR CORE BORING-PLAN VIEW.

AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.

DRIVE SAMPLE AND/OR CORE BORING PLOTTED TO VERTICAL SCALE ONLY.

NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT E.G. 15

INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT.

NUMBER OF BLOWS FOR "STANDARD PENETRATION" TEST.
X=NUMBER OF BLOWS FOR FIRST 6 INCHES.
Y=NUMBER OF BLOWS FOR SECOND 6 INCHES.

SOIL PROFILE

COLUMBIANA COUNTY

COL - 30-35.29

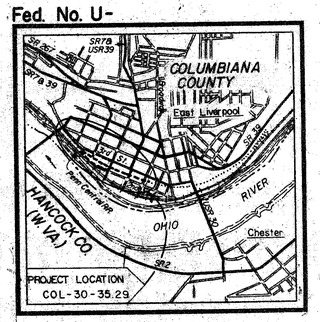
OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

8/16

1/9

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

Fed. No. U-



LOCATION MAP

Recon - J.S.M. - 6/28/72
Drilling - Auger - W.S.B. - 7/12/72 and 7/13/72
Core - O.O.G. AV. - 7/19/72 and 7/20/72
Drafting - A.F.L. N.L. D.E.N. E.J.S. - 8/4/72

TE-178
REV 3-71

SUMMARY OF DRIVE SAMPLE SOIL TEST DATA

NOTE: NP SHOWN IN LIQUID LIMIT AND PLASTICITY INDEX COLUMNS INDICATES THAT THE MATERIAL IS NON-PLASTIC
* DENOTES SAMPLE TAKEN AT OR NEAR GRADE

SOIL PROFILE
COLUMBIANA COUNTY
COL-30-35.29
OHIO STATE HIGHWAY TESTING LABORATORY
1600 W. BROAD ST. COLUMBUS, OHIO 43223

9/16

2/9

STATION & OFFSET	DEPTH FROM	TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS
					USR 30						
964+50 50' LT	0.2-3.0		41	34	20	3	2	NP	NP	5	A-1-b *
	3.0-6.0		55	18	20	4	3	NP	NP	6	A-1-a
964+50 65' RT	0.0-3.5		58	22	8	9	3	NP	NP	8	A-1-a
965+45 63' RT	0.0-4.0		21	17	22	31	9	NP	NP	14	A-4a
968+00 100' LT	0.4-5.0		0	4	18	63	15	NP	NP	17	A-4b
	5.0-10.0		62	8	9	13	8	24	8	11	A-2-4
	10.0-15.0		56	24	4	10	6	27	12	7	A-2-6
	15.0-20.0		50	23	9	12	6	26	12	11	A-2-6
968+00 50' LT	0.0-4.0		58	32	5	3	2	NP	NP	4	A-1-a
	4.0-7.0		54	37	4	3	2	NP	NP	4	A-1-a
	7.0-12.0		63	26	5	3	3	NP	NP	5	A-1-a *
970+50 40' RT	0.8-4.0		40	11	18	22	9	NP	NP	12	A-2-4
	4.0-8.0		43	11	17	19	10	NP	NP	13	A-2-4
	8.0-13.0		0	2	36	46	16	NP	NP	19	A-4a
	13.0-18.0		57	21	8	10	4	NP	NP	10	A-1-a
	18.0-22.0		59	19	9	10	3	NP	NP	8	A-1-a *
977+30 40' RT	0.0-3.0		(45	6	16	23	10	-	-	24)	
			CINDERS								VISUAL
	3.0-8.0		0	1	48	36	15	NP	NP	15	A-4a
	8.0-13.0		0	1	42	46	11	NP	NP	19	A-4a
	13.0-18.0		51	9	16	15	9	21	8	12	A-2-4 *
	18.0-21.0		75	6	7	8	4	21	8	6	A-2-4 *
983+00 130' LT	0.4-5.0		59	9	10	11	11	29	12	19	A-2-6
	5.0-10.0		83	3	5	5	4	27	11	9	A-2-6
	10.0-14.0		67	10	6	8	9	38	18	18	A-2-6
983+00 60' RT	0.5-5.0		0	1	32	47	20	NP	NP	20	A-4a *
	5.0-11.0		0	1	40	43	16	NP	NP	18	A-4a *
	11.0-16.0		0	0	53	38	9	NP	NP	17	A-4a
	16.0-22.0		64	19	8	6	3	NP	NP	7	A-1-a
985+50 75' RT	0.6-5.0		0	2	46	37	15	NP	NP	15	A-4a
	5.0-10.0		0	1	59	26	14	NP	NP	14	A-4a
	10.0-15.0		0	1	56	33	10	NP	NP	14	A-4a
	15.0-18.0		46	18	17	14	5	NP	NP	10	A-1-b
986+20 100' LT	0.8-4.0		56	19	6	10	9	36	18	15	A-2-6
	4.0-10.0		70	20	3	5	2	NP	NP	6	A-1-a
	10.0-16.0		64	17	6	10	3	NP	NP	8	A-1-a
987+15 95' LT	0.0-5.0		(31	11	12	30	16	31	13	16)	
			GRAY CINDERS, BRICKBATS, AND SOIL								VISUAL
	5.0-9.0		(61	8	8	14	9	29	13	16)	
			BROWN CINDERS, BRICKBATS, AND SOIL								VISUAL
	9.0-15.0		0	1	22	52	25	NP	NP	20	A-4b *
	15.0-19.0		52	9	11	17	11	24	7	13	A-2-4 *
	19.0-22.0		60	26	4	5	5	33	17	16	A-2-6
					RAMP L						
977+08 34' RT	0.5-5.0		20	7	14	43	16	NP	NP	14	A-4a
	5.0-10.0		59	15	7	11	8	30	13	11	A-2-6
	10.0-15.0		50	26	6	11	7	27	10	13	A-2-4
	15.0-19.0		66	17	5	8	4	29	12	12	A-2-6

STATION & OFFSET	DEPTH FROM	TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS
					RAMP N						
973+10 2' LT	0.8-5.0		0	1	36	47	16	NP	NP	16	A-4a
	5.0-10.0		0	0	42	46	12	NP	NP	19	A-4a *
	10.0-15.0		69	6	7	10	8	26	12	10	A-2-6 *
	15.0-20.0		83	4	4	5	4	29	13	5	A-2-6
974+69 BL	0.5-5.0		0	2	65	24	9	NP	NP	13	A-3a *
	5.0-10.0		0	1	58	32	9	NP	NP	15	A-4a *
	10.0-13.5		0	2	55	35	8	NP	NP	16	A-4a
977+94 25' RT	0.2-3.0		(39	8	20	27	6	-	-	25)	
			CINDERS								VISUAL
					DRIVE SAMPLE TEST DATA						
					USR 30						
970+50 56' LT	5.0-6.0		(-	-	-	-	-	-	-	20)	
			BROWN GRAVEL AND SAND								VISUAL
	10.0-11.0		70	13	9	-	8 -	NP	NP	10	A-1-a
	15.0-16.0		61	16	10	-	13 -	NP	NP	10	A-1-a
	20.0-20.5		71	14	6	-	9 -	NP	NP	7	A-1-a
	25.0-25.5		59	18	10	-	13 -	NP	NP	8	A-1-a
	30.0-30.7		60	19	9	-	12 -	NP	NP	11	A-1-a
	35.0-36.0		64	19	9	-	8 -	NP	NP	8	A-1-a
	40.0-41.0		61	20	9	-	10 -	NP	NP	9	A-1-a
	45.0-46.0		58	21	9	-	12 -	NP	NP	9	A-1-a
974+65 65' LT	5.0-6.0		56	19	13	9	3	NP	NP	10	A-1-a
	10.0-11.0		59	20	8	8	5	NP	NP	12	A-1-b
	15.0-16.0		50	21	13	10	6	NP	NP	13	A-1-b
	20.0-20.5		43	17	23	11	6	NP	NP	13	A-1-b
	25.0-26.0		54	13	17	10	6	NP	NP	13	A-1-b
	30.0-30.5		(-	-	-	-	-	-	-	3)	
			GRAY GRAVEL								VISUAL
	35.0-35.5		76	10	9	-	5 -	NP	NP	13	A-1-a
	40.0-40.8		44	24	16	-	16 -	NP	NP	14	A-1-b
	45.0-45.5		64	18	9	-	9 -	NP	NP	7	A-1-a
980+52 79' RT	5.0-6.0		0	1	36	44	19	NP	NP	17	A-4a
	10.0-11.0		0	1	49	34	16	NP	NP	22	A-4a
	15.0-16.0		68	19	7	-	6 -	NP	NP	14	A-1-a
	20.0-21.0		82	6	6	-	6 -	NP	NP	14	A-1-a
	25.0-26.0		70	8	8	9	5	NP	NP	7	A-1-a
	30.0-31.0		67	22	8	-	3 -	NP	NP	12	A-1-a
	35.0-36.0		58	29	11	-	2 -	NP	NP	19	A-1-a
	40.0-41.0		33	37	22	-	8 -	NP	NP	20	A-1-b
988+00 60' RT	5.0-6.0		0	0	35	46	19	23	8	19	A-4a
	10.0-11.0		0	0	43	42	15	NP	NP	15	A-4a
	12.5-13.5		0	0	64	27	9	NP	NP	20	A-4a
	15.0-16.0		36	12	25	21	6	NP	NP	14	A-2-4
	20.0-21.0		69	22	5	-	4 -	NP	NP	22	A-1-a
	25.0-26.0		76	10	8	-	6 -	NP	NP	9	A-1-a
	30.0-31.0		76	11	8	-	5 -	NP	NP	7	A-1-a
	35.0-36.0		67	10	13	-	10 -	NP	NP	9	A-1-a

STATION & OFFSET	DEPTH FROM	TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS
989+20 60' RT	5.0-6.0		3	0	47	37	13	NP	NP	19	A-4a
	7.5-8.5		0	0	46	40	14	NP	NP	20	A-4a
	10.0-11.0		4	2	52	33	9	NP	NP	17	A-4a
	15.0-16.0		(-	-	-	-	-	-	-	14)	
			BROWN GRAVELLY SAND								VISUAL
	20.0-21.0		57	27	10	-	6 -	NP	NP	15	A-1-a
	25.0-26.0		63	28	6	-	3 -	NP	NP	16	A-1-a
	30.0-31.0		42	37	16	-	5 -	NP	NP	20	A-1-b
	35.0-36.0		35	49	10	-	6 -	NP	NP	22	A-1-b
990+40 70' RT	5.0-6.0		0	1	47	34	18	NP	NP	17	A-4a
	10.0-11.0		0	0	54	34	12	NP	NP	21	A-4a
	12.5-13.5		0	0	50	36	14	NP	NP	19	A-4a
	15.0-16.0		54	13	16	13	4	NP	NP	13	A-1-b
	20.0-21.0		80	5	6	6	3	-	-	8	A-1-b
	25.0-26.0		76	11	7	-	6 -	NP	NP	16	A-1-a
	30.0-31.0		62	23	9	-	6 -	NP	NP	17	A-1-a
	35.0-36.0		64	16	12	-	8 -	NP	NP	11	A-1-a
	40.0-41.0		36	32	24	-	8 -	NP	NP	21	A-1-b
					RAMP L						
979+70 67' RT	2.5-3.5		67	12	9	7	5	NP	NP	12	A-1-a
	5.0-6.0		75	12	6	-	7 -	NP	NP	12	A-1-a
	10.0-11.0		74	14	5	-	7 -	NP	NP	12	A-1-a
	15.0-16.0		63	17	9	-	11 -	NP	NP	9	A-1-a
	20.0-21.0		54	18	15	-	13 -	NP	NP	12	A-1-a
	25.0-26.0		61	13	10	9	7	23	8	11	A-2-4
	30.0-31.0		52	16	13	14	5	NP	NP	10	A-1-b
	35.0-35.5		68	12	9	-	11 -	NP	NP	10	A-1-a
	40.0-41.0		58	17	14	-	11 -	NP	NP	13	A-1-a
	45.0-45.5		45	29	16	-	10 -	NP	NP	18	A-1-b
	50.0-50.5		44	20	20	-	16 -	NP	NP	9	A-1-b
	55.0-55.5		67	14	10	-	9 -	NP	NP	10	A-1-a

TE-175
1000 3-71

SOIL PROFILE
COLUMBIANA COUNTY
COL-30-35.29

OHIO STATE HIGHWAY TESTING LABORATORY
1600 W. BROAD ST. COLUMBUS, OHIO 43223

10/16

3/9

CROSS SECTION INDEX	
Station	Sheet
964+50	8
968+00	8
970+50	8

NOTE: For profiles of Ramps L & N, see sheets 6&7.

Newell Bridge
Existing USR 30 (River Lake Hwy)
Abandoned Siding
Penn Central RR
℄, Proposed USR 30
℄, Ramp L
℄, Ramp N
℄, Existing Jackson St.
℄, Existing Second St.
West Ave.
Monroe St.
Fourth St.
Church Lane
Persimmon Alley
Jefferson St.
Third St.
East Alley
Center Lane
Second St.
OHIO RIVER

TE-178
1000 3-71

SOIL PROFILE
COLUMBIANA COUNTY

11/16

COL-30-35.29

OHIO STATE HIGHWAY TESTING LABORATORY
1600 W. BROAD ST. COLUMBUS, OHIO 43223

4/9

CROSS SECTION INDEX	
Station	Sheet
983+00	9
986+00	9

℄, Ramp L
℄, Existing Third St.
℄, Existing Jackson St.
Peach Alley
Market St.
Crook Alley
Washington St.
℄, Proposed USR 30
Proposed Retaining Wall
℄, Ramp N
℄, Existing Second St.
Penn Central RR

SOIL PROFILE
COLUMBIANA COUNTY

COL-30-35.29

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

12/16

5/9

730
720
710
700
690
680

50'Lt.
TS=0.2'
5
6
Refusal (Boulders)
65'Rt.
8
Refusal (Cobbles) (Hand auger)

63'Rt.
14
Refusal (Cobbles) (Hand auger)

100'Lt.
TS=0.4'
17
11
7
11
Hole squeezed in

50'Lt.
4
5
Hole caved in

56'Lt.
5/6
Brown sand and gravel
40'Rt.
TS=0.8'
10 (15/15)
10 (20/28)
12
13
7 (50/0.3')
19
8 (50/0.5')
10
11 (50/0.5')
8
8 (14/18)
Hole squeezed in (Cobbles)
9 (14/20)
9 (20/28)

65'Lt.
(16/20)
10
(13/15)
12
(22/28)
13
(0.5') 50
13
(20/24)
13
(0.3') 50
Gray gravel
(0.5') 50
13
(0.5') 50
14
(0.5') 50
7

40'Rt.
Cinders
15
19
12
6
Hole squeezed in (Cobbles)

USR 30

963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979

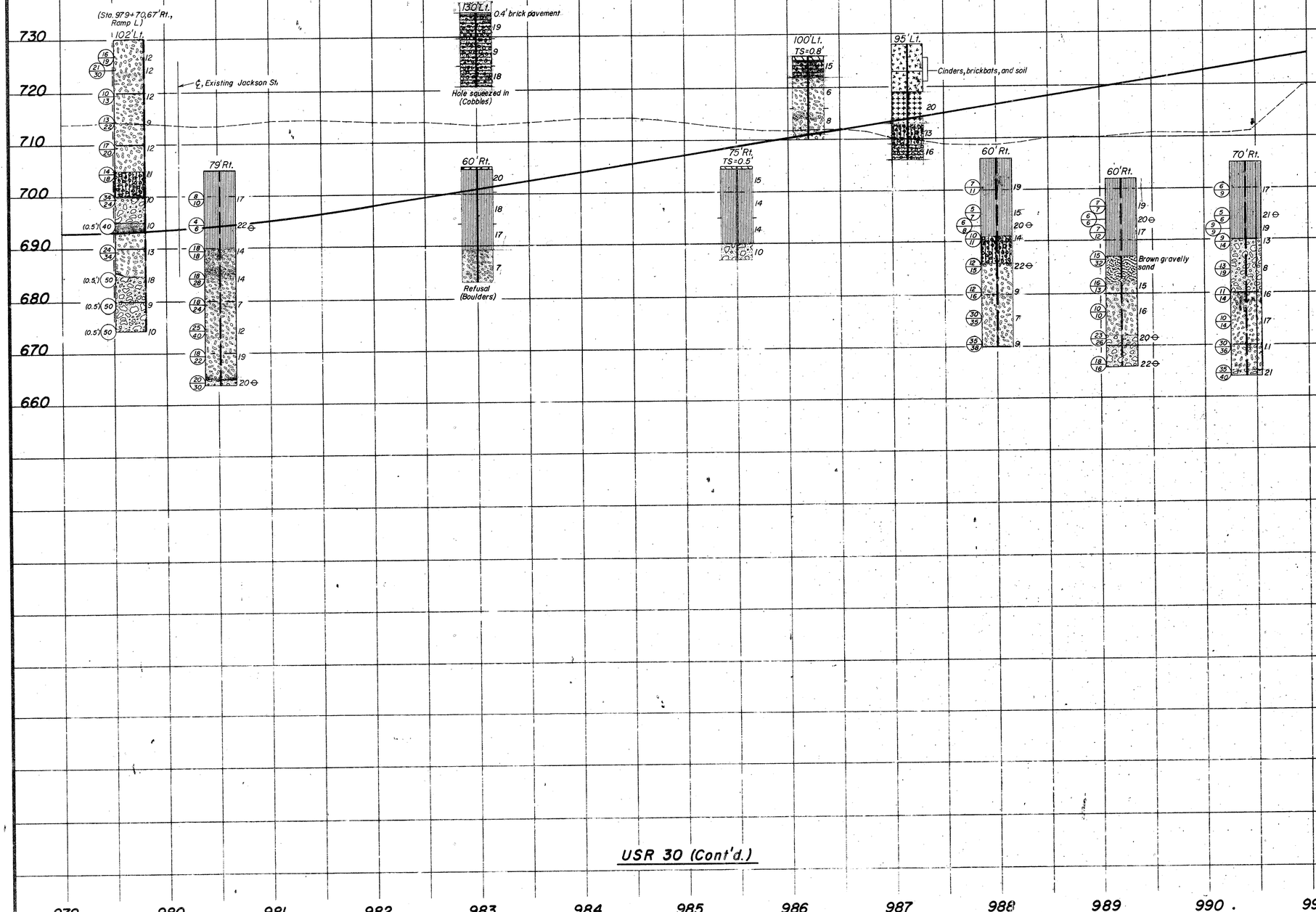
TI - 96
INCO-13-66

SOIL PROFILE
COLUMBIANA COUNTY
COL - 30 - 35.29

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

13/16

6/9

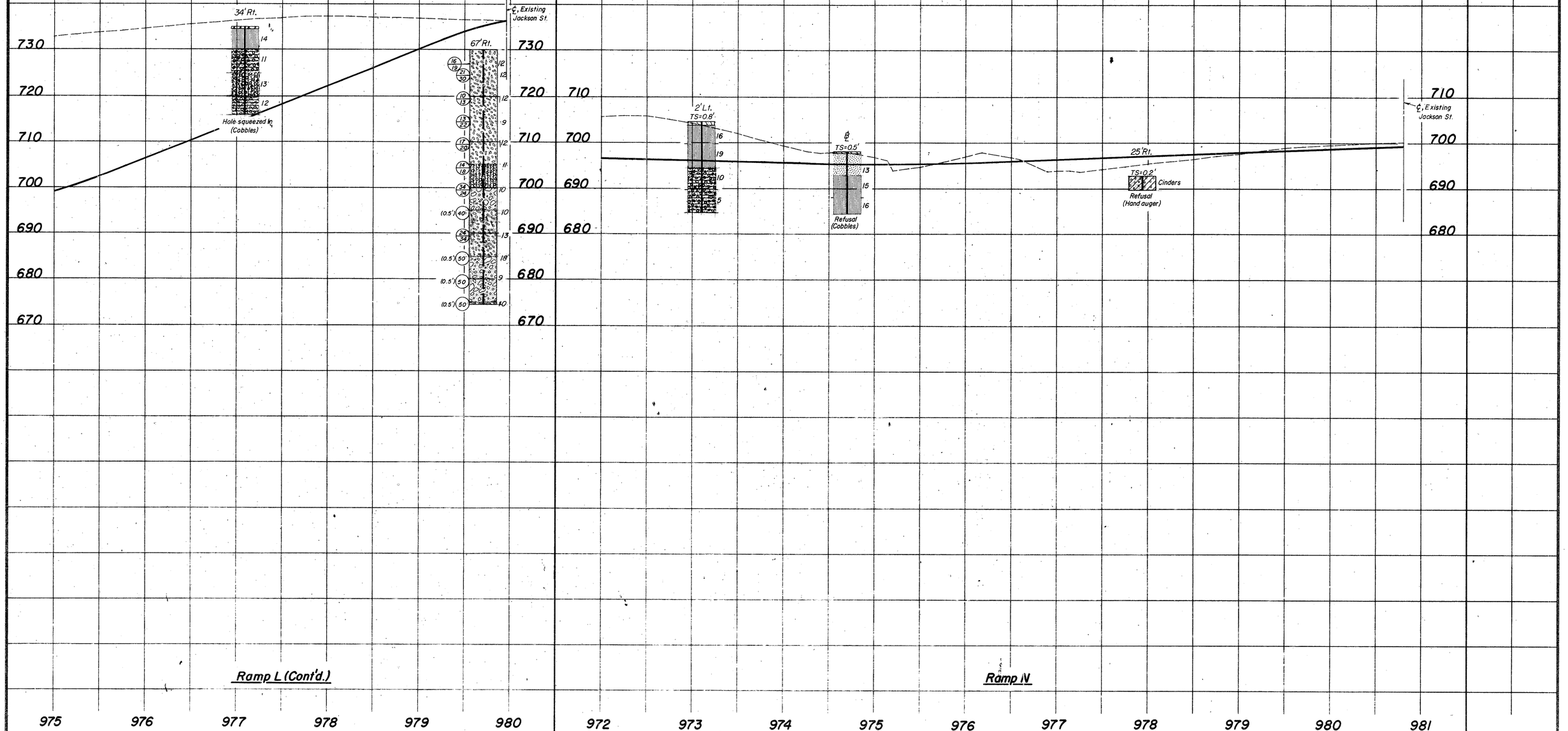


TE - 96
1500-12-66

SOIL PROFILE
COLUMBIANA COUNTY
COL-30-35.29
OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

14/16

7/9



TE - 96
11500-12-66

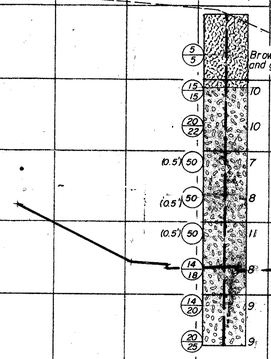
SOIL PROFILE
COLUMBIANA COUNTY
COL - 30 - 35.29

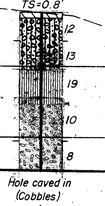
OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

15/16

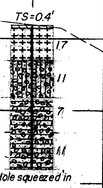
8/9

Sta. 970 +50





Sta. 968+00



Sta. 964+50

TE - 96
1500-12-89

SOIL PROFILE
COLUMBIANA COUNTY
16/16

COL - 30 - 35.29

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

9/9

730
720
710
700
690
680

(Sta. 986+20)
TS = 0.8'
15
6
8

Sta. 986+00

(Sta. 985+50)
TS = 0.5'
15
14
14
10

160 150 100 50 ℄ 50 100 150 160

730
720
710
700
690
680

0.4' brick pavement
19
9
18
Hole squeezed in (Cobbles)

Sta. 983+00

20
18
17
7
Refusal (Boulders)

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160