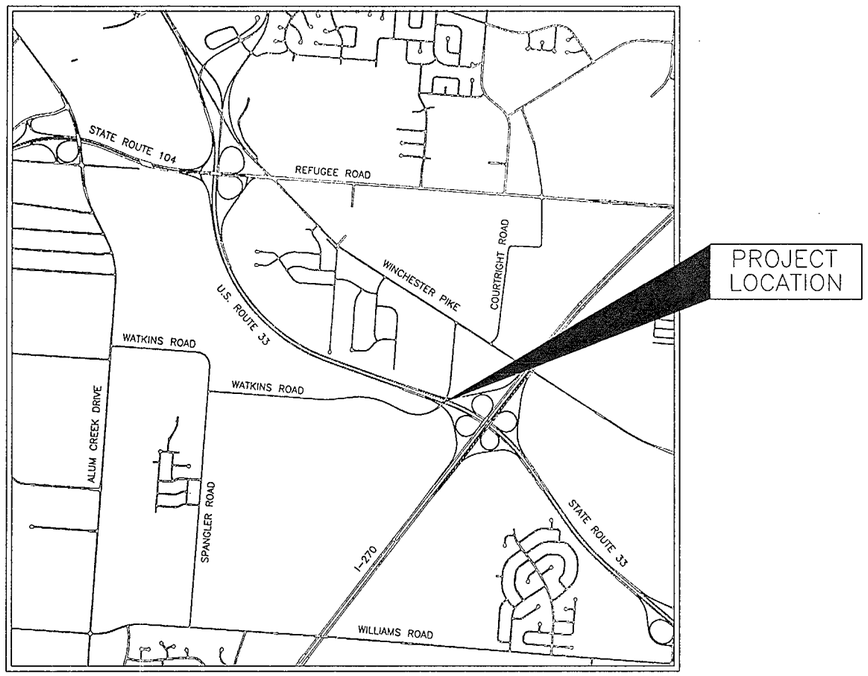
CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
ENGINEERING AND CONSTRUCTION DIVISION
BRIDGE SECTION
WATKINS ROAD OVER U.S. ROUTE 33
DECK REPLACEMENT
CIP NO. 356

INDEX OF SHEETS

TITLE SHEET. 1
GENERAL NOTES AND SUMMARY. 2
EXISTING BRIDGE PLAN 3
PROPOSED BRIDGE PLAN. 4
DETAILS. 5-6
REINFORCING STEEL. 7
TRAFFIC DETOUR PLAN. 8-12



LOCATION MAP

NOT TO SCALE

1993 SPECIFICATIONS

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL, SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THE PLANS AS SET FORTH IN THE FOLLOWING CONTRACT DRAWINGS.

ADMINISTRATOR, DIVISION OF TRAFFIC	3-13-96 DATE
DIRECTOR OF PUBLIC UTILITIES	3/6/96 DATE
ADMINISTRATOR, DIVISION OF ELECTRICITY	3/4/96 DATE
ADMINISTRATOR, DIVISION OF WATER	3/6/96 DATE
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE	3/7/96 DATE
CITY ENGINEER	DATE
PLANNING AND PROGRAMMING ENGINEER DIVISION OF ENGINEERING AND CONSTRUCTION	2/29/96 DATE
ADMINISTRATOR, DIVISION OF CONSTRUCTION INSPECTION	DATE
DIRECTOR OF PUBLIC SERVICE	3/18/96 DATE

PLANS PREPARED BY
CITY OF COLUMBUS
DIVISION OF ENGINEERING & CONSTRUCTION
BRIDGE SECTION

SEAL

CITY BRIDGE ENGINEER — 3.1.96 DATE

CITY OF COLUMBUS STANDARD DRAWING				O.D.O.T. STANDARD DRAWING			
				MC-7	10-15-76		
				VPF-1-90	09-26-90		
				EXJ-4-87	01-05-89		
				BR-1	05-29-72		

UNDERGROUND UTILITIES
TWO WORKING DAYS

CALL 800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE

NON MEMBERS
MUST BE CALLED DIRECTLY

PROJECT NO. CIP 356
DATE OF LETTING: _____19. ___. CONTRACT NO. ___

ESTIMATE OF QUANTITIES

REF NO	ITEM NO	DESCRIPTION	QUANTITY	UNIT
1	201	CLEARING AND GRUBBING	1	LUMP
2	202	ALUMINUM RAILING REMOVED AND DELIVERED TO CITY	740	LIN FT
3	202	PORTION OF STRUCTURE REMOVED, AS PER PLAN	1	LUMP
4	202	GUARDRAIL REMOVED	144	LIN FT
5	202	PORTION OF STRUCTURE REMOVED, BACKWALL	18	CU YD
6	254	PAVEMENT PLANNING 1/4"	156	SQ YD
7	404	ASPHALT CONCRETE 1 1/4"	11	TONS
8	452	PLAIN PORTLAND CEMENT CONCRETE PAVEMENT	15	SQ YD
9	509	EPOXY COATED REINFORCED STEEL	92,867	LBS
10	510	DOWEL HOLES	88	EACH
11	511	CLASS 'S' CONCRETE DECK	380	CU YD
12	511	PARAPET DEFLECTION TYPE	85	CU YD
13	511	CLASS 'C' CONCRETE, BACKWALL	10	CU YD
14	514	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU	1	LUMP
15	514	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU	1	LUMP
16	514	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU	1	LUMP
17	514	FIELD PAINTING OF EXISTING STEEL, FINAL COAT, SYSTEM OZEU	1	LUMP
18	514	HAZARDOUS WASTE MANAGEMENT	1	LUMP
19	516	STRUCTURAL EXPANSION JOINT, AS PER PLAN	70	LIN FT
20	516	RESET BEARING DEVICES	24	EACH
21	526	SEALING CONCRETE SURFACES	900	SQ YD
22	601	RIPRAP	8	CU YD
23	606	GUARDRAIL TERMINAL ASSEMBLY, TYPE 1	2	EACH
24	606	GUARDRAIL TERMINAL ASSEMBLY, TYPE 2	2	EACH
25	606	GUARDRAIL, TYPE 5	144	LIN FT
26	607	VANDAL PROTECTION FENCE	688	LIN FT
27	611	APPROACH SLAB, AS PER PLAN	8	CU YD
28	614	MAINTAINING TRAFFIC	1	LUMP
29	619	FIELD OFFICE, AS PER PLAN	1	LUMP
30	623	CONSTRUCTION LAYOUT STAKING	1	LUMP
31	624	MOBILIZATION	1	LUMP
32	644	CENTER LINE	0.07	MILE
33	644	EDGE LINE	0.14	MILE
34	646	RAISED PAVEMENT MARKERS FURNISHED AND INSTALLED	20	EACH
35	660	REINFORCED SODDING	90	SQ YD
36	SPEC	LAW ENFORCEMENT OFFICER WITH CRUISER	50	HOUR
37	SPEC	CONTRACT PERFORMANCE BOND	1	LUMP

PHASE I CLOSE WATKINS
INSTALL DETOUR

PHASE II DEMOLITION
DEMOLITION OF PORTIONS OF WATKINS ROAD BRIDGE OVER US RT 33 CAN OCCUR BETWEEN THE HOURS OF 7:00 PM FRIDAY THRU 5:00 AM ON MONDAY. CLOSURES WILL ALSO BE PERMITTED FOR DEMOLITION BETWEEN THE HOURS OF 9:00 AM TO 3:30 PM MONDAY THRU FRIDAY IF THE CONTRACTOR CHOOSES A WEEKDAY DEMOLITION PLAN. IF CONTRACTOR CHOOSES A WEEKDAY DEMOLITION PLAN, CONTRACTOR SHALL REOPEN ANY CLOSED PORTIONS OF US RT 33, INCLUDING EXIT RAMPS, TO TRAFFIC WHENEVER CONTRACTOR IS 10 FEET OFF THE EDGE OF PAVEMENT. CONTRACTOR MAY CLOSE I-270 SOUTHBOUND RAMP TO STATE ROUTE 33 WESTBOUND, DETOUR PER SHEET 10. CONTRACTOR MAY CLOSE EASTBOUND US ROUTE 33 TO SOUTHBOUND I-270, DETOUR PER SHEET 9. CONTRACTOR WILL MAINTAIN ONE LANE IN EACH DIRECTION ON US ROUTE 33 AT ALL TIMES (SEE LANE CLOSURE DETAILS).

PHASE III DECK RECONSTRUCTION
WHEN CONTRACTOR IS REBUILDING THE BRIDGE ALL LANES OF US RT 33 AND ALL RAMPS TO AND FROM I-270 WILL BE OPEN AT ALL TIMES. TRAFFIC CONTROL ON WATKINS ROAD IS TO REMAIN IN PLACE UNTIL ALL WORK AND FINAL TRAFFIC CONTROL IS INSTALLED. TRAFFIC CONTROL AS PER PHASE I IS TO REMAIN IN PLACE UNTIL ALL WORK AND FINAL TRAFFIC CONTROL IS INSTALLED.

PHASE IV BRIDGE PAINTING
WHEN CONTRACTOR IS PAINTING, LANE CLOSURES WILL BE PERMITTED AS DETAILED ON THE TRAFFIC CONTROL PLAN. WORK WILL BE PERMITTED ONLY BETWEEN 7:00 PM FRIDAY AND 5:00 AM MONDAY.

THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES IF ALL FOUR TRAVEL LANES AND ANY EXIT RAMPS ON US ROUTE 33 OR I-270 ARE NOT OPEN TO TRAFFIC BY 5:00 AM OR 3:30 PM. THE LIQUIDATED DAMAGES WILL BE ASSESSED AT THE RATE OF $500 PER 5 MINUTE INTERVAL OR PART THERE OF UNTIL SUCH TIME AS THE ROADWAY IS OPEN TO TRAFFIC.

TRAFFIC CONTROL FOR DEMOLITION, RECONSTRUCTION AND PAINTING IS DESIGNED TO BE IMPLEMENTED IN THREE STAGES:
STAGE 1:
CLOSING RAMP TO I-270 SOUTH AND RIGHT LANE ON S/B US33
STAGE 2:
CLOSING LEFT HAND LANE ON S/B AND N/B US33. CLOSING RAMP FROM N/B I-270 TO N/B US33.
STAGE 3:
CLOSING RIGHT LANE ON N/B US33, CLOSING RAMP FROM N/B I-270 TO N/B US33, AND CLOSING RAMP FROM S/B I-270 TO N/B US33.

ITEM 514 PAINTING OF EXISTING STEEL

THE EXISTING CROSSFRAMES AND ENDFRAMES CLOSEST TO THE BRIDGE ABUTMENT, SHALL BE PAINTED PRIOR TO POURING NEW DECK.

SCOPE OF WORK:
THIS CONTRACT SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF THE EXISTING BRIDGE DECK, PARAPET, AND APPROACH PARAPET, APPROXIMATELY 2 FEET OF APPROACH SLAB WILL BE REPAIRED ON BOTH ENDS OF THE BRIDGE, PAINTING OF STEEL BEAMS, GUARDRAIL, AND VANDAL FENCING WILL BE INSTALLED ALONG THE TOP OF THE PROPOSED PARAPET.

SPECIFICATIONS:
THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED 1993, INCLUDING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL, SHALL GOVERN THIS IMPROVEMENT EXCEPT WHERE SUCH SPECIFICATIONS ARE MODIFIED.

PLAN MODIFICATIONS
MODIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE BRIDGE ENGINEER.

SAFETY REQUIREMENTS:
THE CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, IN ADDITION TO WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS AND PROPERTY.

COORDINATION WITH THE COLUMBUS PAVING THE WAY...PROGRAM:
THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN ADVANCE OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON THIS PROJECT ON A WEEKLY BASIS. INFORMATION SHALL INCLUDE ALL CONSTRUCTION ACTIVITIES THAT IMPACT TRAFFIC AT PRESENT OR IN THE FORESEEABLE FUTURE. THE CONTRACTOR SHALL PROVIDE INFORMATION TO THE PROJECT ENGINEER IN A TIMELY FASHION. THE PROJECT ENGINEER SHALL THEN NOTIFY THE COLUMBUS PAVING THE WAY...PROGRAM (PTWP). ALL CONSTRUCTION ACTIVITIES THAT AFFECT TRAFFIC SHOULD BE REPORTED TO THE PTWP AS THEY ARE SCHEDULED. INFORMATION SHOULD BE PROVIDED TO THE PROGRAM COORDINATOR AT (614) 645-3970 OR AT (614) 645-6016.

ITEM 201 CLEARING AND GRUBBING
THE CONTRACTOR IS TO CLEAR 50 FEET OR TO THE TOE OF THE SLOPE FROM THE ABUTMENTS UNDER THIS PAY ITEM.

ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
THIS ITEM IS INCLUDED FOR THE REMOVAL OF THE EXISTING DECK, APPROACH PARAPET, SCUPPERS, SAFETY CURB, EXPANSION JOINTS, AND BRIDGE PARAPET AS SHOWN IN THESE PLANS.
THE CONTRACTOR SHALL USE CAUTION DURING REMOVAL OPERATIONS AND PROVIDE PROTECTION FROM DEBRIS FALLING ON TO US ROUTE 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PORTIONS OF THE STRUCTURE NOT INDICATED TO BE REMOVED AND SHALL REPAIR THE DAMAGE TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE CITY. WHEN REMOVING THE EXISTING APPROACH PARAPET, THE EXISTING #5 VERTICAL REINFORCING SHALL BE INCORPORATED IN THE NEW PARAPET.

ITEM 202 ALUMINUM RAILING REMOVED AND DELIVERED TO CITY
THE EXISTING ALUMINUM RAILING SHALL BE REMOVED IN SUCH A MANNER AS TO AVOID DAMAGE TO IT. THE RAIL SHALL BE DELIVERED TO A SITE IN THE CITY OF COLUMBUS DESIGNATED BY THE ENGINEER.

ITEM SPECIAL CONTRACT PERFORMANCE BOND
SEE PROPOSAL

ITEM 516 STRUCTURAL EXPANSION JOINTS, AS PER PLAN
THE CONTRACTOR SHALL FIELD MEASURE AND VERIFY DIMENSIONS OF THE END DAM PRIOR TO DETAILING OR FABRICATION. MODIFICATION OF THE EXISTING ENDFRAMES (AS SHOWN IN THESE PLANS) MAY BE NECESSARY. ALL COSTS ASSOCIATED WITH THE MODIFICATION OF THE ENDFRAMES SHALL BE INCLUDED WITH THIS ITEM FOR PAYMENT.

ITEM 611 APPROACH SLAB, AS PER PLAN
THIS ITEM IS INCLUDED TO REPAIR THE EXISTING APPROACH SLABS WHERE THEY MEET THE BRIDGE. PLACE A 1 INCH DEEP SAWCUT 2 FEET FROM THE END DAM, OR AS DIRECTED BY THE ENGINEER. REPLACE LOOSE AND DETERIORATED CONCRETE WITH CLASS 'C' CONCRETE IN ACCORDANCE WITH ITEM 519 OF THE CCMS. ALL COST ASSOCIATED WITH REMOVAL AS SHOWN ON THESE PLANS SHALL BE INCLUDED IN THE UNIT COST FOR THIS ITEM.

ITEM 614 MAINTENANCE OF TRAFFIC, AS PER PLAN:
THE COST FOR EQUIPMENT, MATERIALS, TRAFFIC CONTROL DEVICES, AND LABOR NECESSARY TO COMPLETE THIS ITEM AS DESCRIBED. THIS INCLUDES ALL NECESSARY SET-UPS, TAKE-DOWNS, AND MAINTENANCE, SHALL BE INCLUDED IN THE LUMP SUM BID.

THE CONTRACTOR SHALL PROVIDE, INSTALL, RE-INSTALL, REMOVE, AND MAINTAIN ALL SIGNS, BARRICADES, AND OTHER TRAFFIC, CONTROL DEVICES AS REQUIRED BY THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

A CITY OF COLUMBUS STREET CLOSURE/OCCUPANCY PERMIT SHALL BE REQUIRED. THE CONTRACTOR SHALL REQUEST OR APPLY FOR SAID PERMIT 10 WORKING DAYS IN ADVANCE OF ANY LANE CLOSURES. THE PERMIT CAN BE OBTAINED AT THE DIVISION OF ENGINEERING AND CONSTRUCTION AT 109 N. FRONT STREET, 3RD FLOOR (614) 645-7113. A COPY OF THE TRAFFIC CONTROL PLANS SHALL BE INCLUDED WITH THE PERMIT REQUEST.

TRAFFIC SHALL BE MAINTAINED AS SHOWN ON THESE PLANS. FULL CLOSURE OF WATKINS ROAD OVER US RT 33 WILL BE REQUIRED DURING DEMOLITION AND RECONSTRUCTION PHASES OF THE PROJECT. DETOUR SIGNS SHALL BE POSTED AS SHOWN ON THESE PLANS. NOTIFICATION OF FULL CLOSURE SHALL BE GIVEN TO BUSINESSES AND RESIDENCES ON WATKINS ROAD BETWEEN WINCHESTER PIKE AND SPANGLER ROAD THIRTY WORKING DAYS PRIOR TO THE CLOSURES TAKING PLACE. IN ADDITION, TWO PCMS (PORTABLE CHANGEABLE MESSAGE SIGN) SIGNS ADVISING DRIVERS SHALL BE POSTED INFORMING THE PUBLIC OF THE DATES OF THE CLOSURES SHALL BE ERECTED ONE WEEK PRIOR TO THE CLOSURES. THESE ADVISORY SIGNS SHALL BE POSTED AS DIRECTED BY THE ENGINEER.

THE TRAFFIC ENGINEERING AND PARKING DIVISION CONSTRUCTION MANAGER (645-6269) SHALL BE NOTIFIED A MINIMUM OF FIVE WORKING DAYS PRIOR TO STARTING WORK AND/OR PRIOR TO EACH PHASE OR MAJOR CHANGE IN TRAFFIC PATTERNS, EITHER PERMANENT OR TEMPORARY WITHIN THE ROADWAY RIGHT-OF-WAY.

STEADY-BURNING, TYPE 'C' LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. CONES ARE NOT APPROVED FOR USE AT NIGHT.

ITEM 619 FIELD OFFICE, AS PER PLAN
THIS SHALL BE A TYPE 'A' FIELD OFFICE THAT INCLUDES TWO TELEPHONE LINES. THE ADDITIONAL TELEPHONE LINE SHALL BE DEDICATED FOR A FAX MACHINE. TRAILER MAY BE PLACED ON THE ROADWAY.

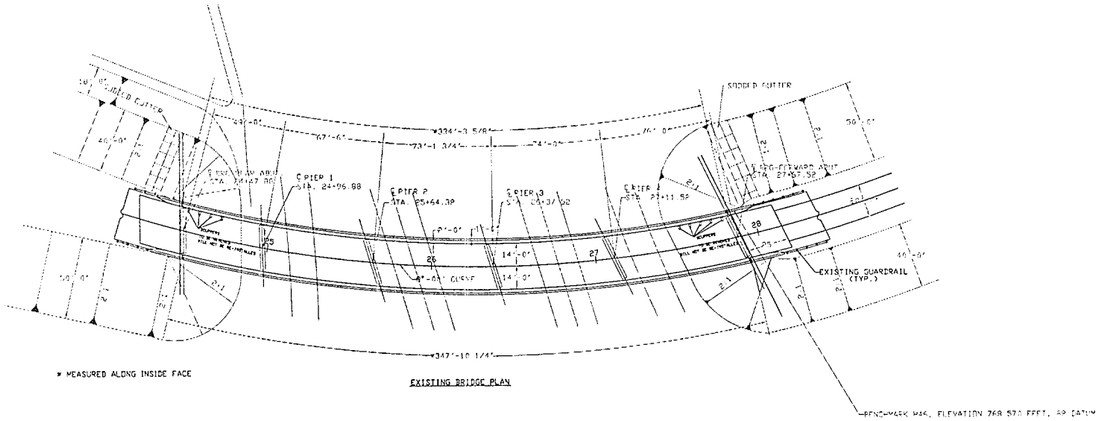
ITEM 623 CONSTRUCTION LAYOUT STAKING
THE CONTRACTOR IS RESPONSIBLE FOR LAYING OUT ALL CONTROL POINTS NECESSARY FOR CONSTRUCTION. THE CONTRACTOR SHALL TRANSFER BENCHMARK(S) TO TEMPORARY LOCATION(S) FOR HIS USE. NOTIFY MR. DEAN RINGLE OF THE COUNTY ENGINEER'S OFFICE 462-3050 THREE WORKING DAYS PRIOR TO REMOVING SAFETY CURB. CONTRACTOR WILL SUBMIT TO THE ENGINEER ONE WEEK PRIOR TO POUR, TOP OF BEAM ELEVATIONS AT ABUTMENTS, PIERS, AND HALF POINTS OF SPANS.

CALCULATED RD CHECKED BY GY
DATE 3-12-96

GENERAL NOTES

WATKINS ROAD BRIDGE OVER U.S. ROUTE 33

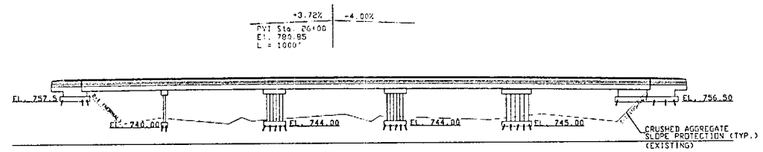
2 / 12



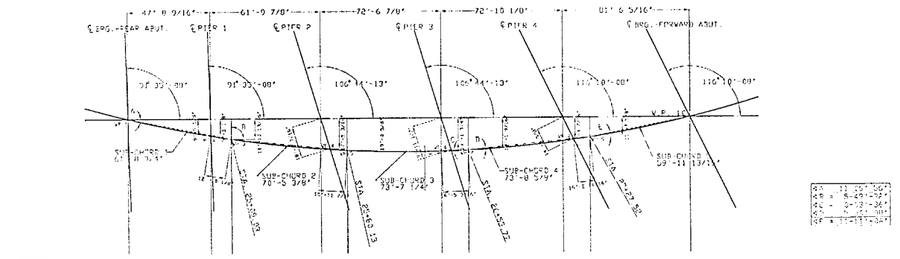
* MEASURED ALONG INSIDE FACE

EXISTING BRIDGE PLAN

NOTE:
CONTRACTOR TO TRANSFER BENCHMARK TO TEMPORARY LOCATION FOR HIS USE. NOTIFY MR. DEAN RINGLE OF COUNTY ENGINEERS OFFICE 462-3050 THREE WORKING DAYS PRIOR TO REMOVING SAFETY CURB.



ELEVATION



* MEASURED ALONG INSIDE FACE

GEOMETRY PLAN

P.I.	11°-25'-56"
Δ	6°-29'-52"
P.C.	5°-37'-36"
P.T.	11°-53'-28"

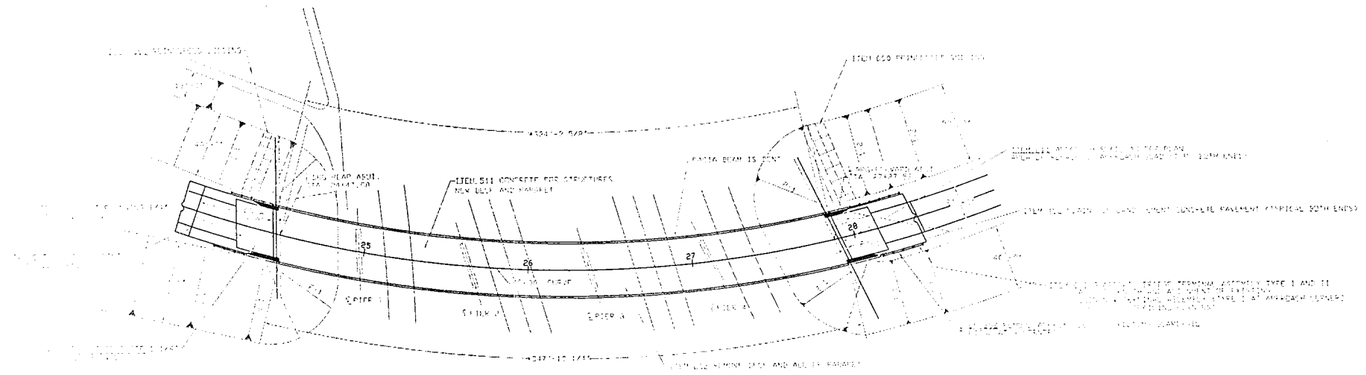
CALCULATED	RD
CHECKED BY	GY
DATE	3-12-96
SCALE	IN FEET

WATKINS ROAD BRIDGE OVER US ROUTE 33

EXISTING BRIDGE PLAN

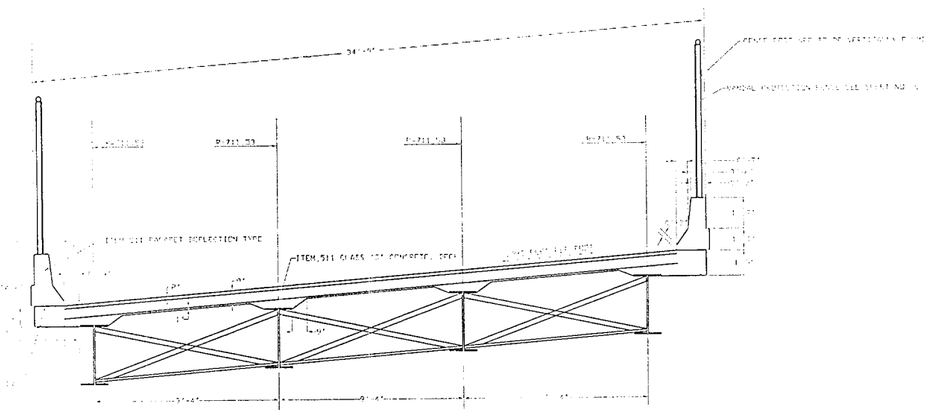
12 3

C:\PROJECTS\WTK_EXT.DWG



* MEASURED ALONG INSIDE FACE

PROPOSED BRIDGE PLAN



0' 1' 2' 3' 4' 5'
SCALE

PROPOSED TRANSVERSE SECTION

DESIGN TRAFFIC

CURRENT: 3300 VEHICLES PER DAY
PROJECTED: 4000 VEHICLES PER DAY

EXISTING STRUCTURE

TYPE: 5 SPAN CONTINOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE.
SPANS: 49'-0", 67'-6", 73'-1 3/4", 74'-0", 76'-0" ALONG SURVEY.
ROADWAY: 28'-0" F/F OF 2'-0" SAFETY CURB.
LOADING:
SKEW: VARIES
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: SPECIAL (25' LONG)
ALIGNMENT: 8 CURVE LEFT
SUPERELEVATION: 0.083%
SFN 2560771

PROPOSED WORK

ROADWAY: 31'-0" F/F DEFLECTOR PARAPET
DECK REPLACEMENT: 9" THICK CONCRETE
CLEANING AND PAINTING EXISTING STEEL.
REPLACE APPROACH PARAPET.
NEW DEFLECTOR PARAPET.
BRIDGE TERMINAL ASSEMBLY TYPE I AND II
GUARDRAIL, TYPE 5
VANDAL PROTECTION FENCE.

N

0' 10' 30' 50'
SCALE IN FEET

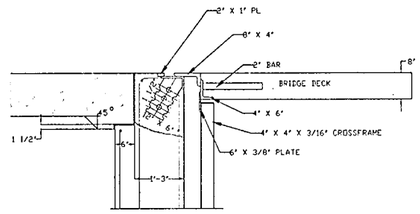
CALCULATED RD
CHECKED BY GY

DATE 3-25-96

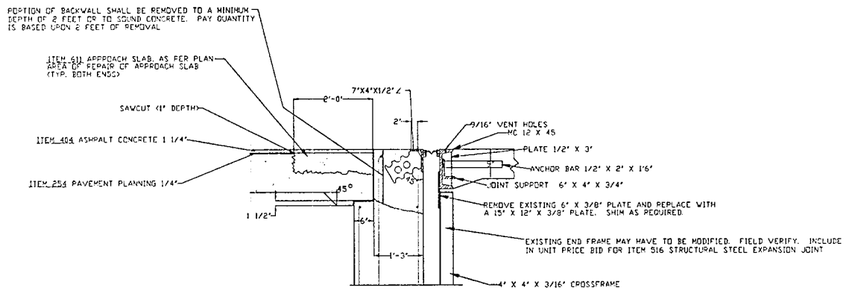
PROPOSED BRIDGE PLAN

WATKINS ROAD BRIDGE OVER STATE ROUTE 33

4 / 12

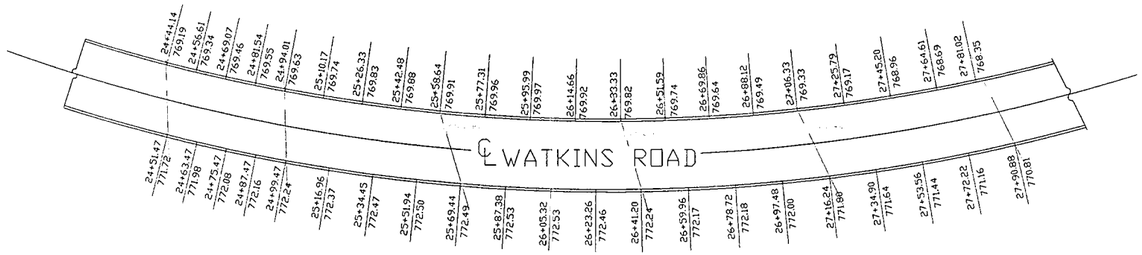


EXISTING EXPANSION JOINT



PROPOSED EXPANSION JOINT

SEE EXJ-4-87 FOR OTHER PERTINET DETAILS.



GUTTER ELEVATIONS

NOTE:
ELEVATIONS SHOWN ARE THOSE REQUIRED BEFORE DECK CONCRETE IS PLACED.

N

SCALE IN FEET

CALCULATED RD
CHECKED BY GY

DATE 3-12-96

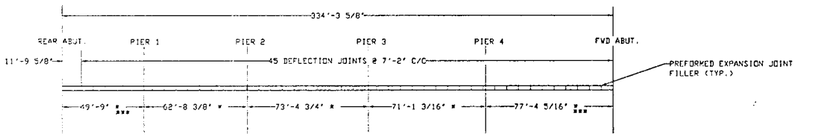
WATKINS ROAD BRIDGE OVER US ROUTE 33

DETAILS

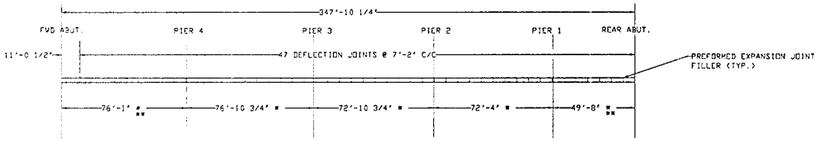
15 / 15

0310-ST

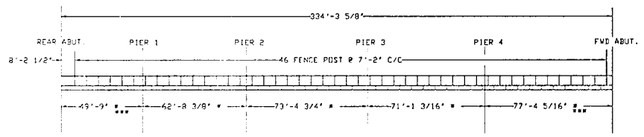
CARICHARD\WTK_DTL.DWG



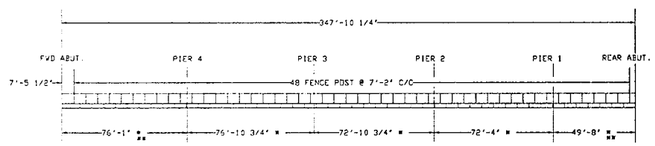
DEFLECTION JOINTS
NORTH PARAPET WALL LOOKING NORTH



DEFLECTION JOINTS
SOUTH PARAPET WALL LOOKING NORTH



VANDAL PROTECTION FENCE POST LOCATIONS
NORTH PARAPET WALL LOOKING NORTH

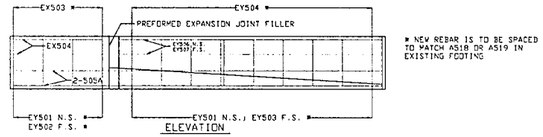


VANDAL PROTECTION FENCE POST LOCATIONS
SOUTH PARAPET WALL LOOKING NORTH

* THESE DEMENSIONS ARE AT CENTER LINE OF PIERS AT EDGE OF DECK.

** NOTE: THE DIMENSIONS FOR THE CENTER LINE OF PIERS AT EDGE OF DECK EQUALS 347.3', THE INSIDE DEMENSION OF PARAPET EQUALS 347.854', FOR A DIFFERENCE OF .554', THEREFORE .277' WAS ADDED TO DIMENSION AT EACH END.

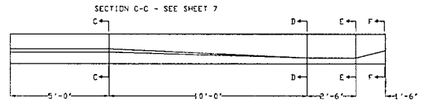
*** NOTE: THE DIMENSIONS FOR THE CENTER LINE OF PIERS AT EDGE OF DECK EQUALS 347.3', THE INSIDE DEMENSION OF PARAPET EQUALS 334.3', FOR A DIFFERENCE OF 2.3', THEREFORE 1.15' WAS ADDED TO DIMENSION AT EACH END.



ELEVATION

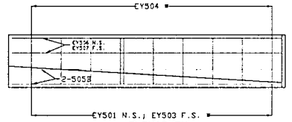
* NEW REBAR IS TO BE SPACED TO MATCH A518 OR A519 IN EXISTING FOOTING

SECTION C-C - SEE SHEET 7

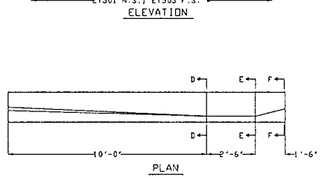


PLAN

PARAPET WINGS A & D
NORTH SIDE

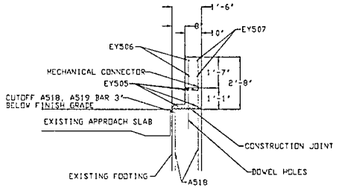


ELEVATION

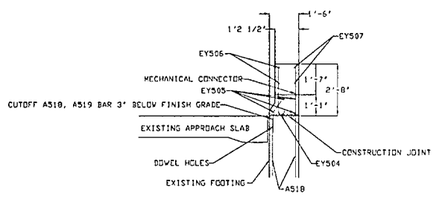


PLAN

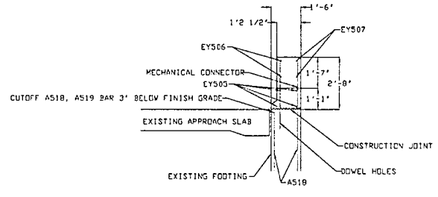
PARAPET WINGS B & C
SOUTH SIDE



SECTION F-F



SECTION D-D



SECTION E-E

FOR OTHER PERITENT DETAILS FOR PARAPET-SEE STANDARD DRAWING BRIDGE RAILING DEFLECTOR PARAPET TYPE

N

SCALE IN FEET

CALCULATED RD
CHECKED BY GY

DATE 3-21-96

DETAILS

WATKINS ROAD BRIDGE
OVER STATE ROUTE 33

16
12

0310-ST

C:\RICHARD\WTK_DTL2.DWG

DIAGRAM SHOWING STAGGERING OF ES402 BARS OVER THE PIERS

TYPE 'A'

TYPE 'B'

TYPE 'C'

REINFORCING STEEL

MARK	NUMBER	LENGTH	WEIGHT	TYPE	A	B	C	D	E
BRIDGE DECK									
TRANSVERSE BARS									
ES601	412	33'-8"	20,835	STR					
ES602	1 SERIES OF 6	136'-2"	210	STR					
ES603	3	10'-6"	50	STR					
ES604	1 SERIES OF 7		245	STR					
ES605	3	11'-6"	52	STR					
ES701	412	33'-8"	28,255	STR					
ES702	1 SERIES OF 6	136'-2"	280	STR					
ES703	3	10'-6"	65	STR					
ES704	1 SERIES OF 7		330	STR					
ES705	3	11'-6"	71	STR					
		TOTAL	50,393						
LONGATUDINAL BARS									
S401	492	31'-0"	10,188	STR					
S402	160	31'-0"	3,315	STR					
SS01	492	31'-6"	16,165	STR					
		TOTAL	29,668						
PARAPET ON BRIDGE									
EX503	8	5'-6"	44	D	2'-2"	2'-5"	7 1/2"		
EX504	8	4'-6"	38	STR					
EY501	50	2'-9"	144	A	8"	6"	8 1/2"	2'-1"	
EY503	44	1'-6"	69	STR					
EY504	44	3'-0"	138	B	2'-5"				
EY505A	8	18'-8"	156	STR					
EY505B	8	13'-8"	115	STR					
EY506A	4	13'-4"	56	F	9'-4"	2'-4"	1'-5"	6 1/2"	
EY506B	4	13'-8"	58	F	9'-11"	2'-4"	1'-5"	6 1/2"	
EY507A	4	13'-4"	56	STR					
EY507B	4	13'-8"	58	STR					
		TOTAL	932						
PARAPET AT APPROACH SLABS									
BX501	569	2'-4"	1,383	E	1'-6"	10"			
BX502	569	3'-5 1/2"	2,033	C	9"	6"	8 1/2"	1'-1"	10
BX503	569	4'-4"	2,570	D	2'-2"	2'-5"	7 1/2"		
BX504	368	6'-2"	2,367	STR					
BX505A	8	10'-0 1/4"	84	STR					
BX505B	8	10'-9 5/8"	91	STR					
BX506	164	19'-6"	3,336	STR					
		TOTAL	11,874						
		GRAND TOTAL	92,867						

TYPE 'D'

TYPE 'E'

TYPE 'F'

DECK PLAN

SECTION C-C
SEE SHEET 6

N

SCALE IN FEET

CALCULATED RD

CHECKED BY GY

DATE 3-12-96

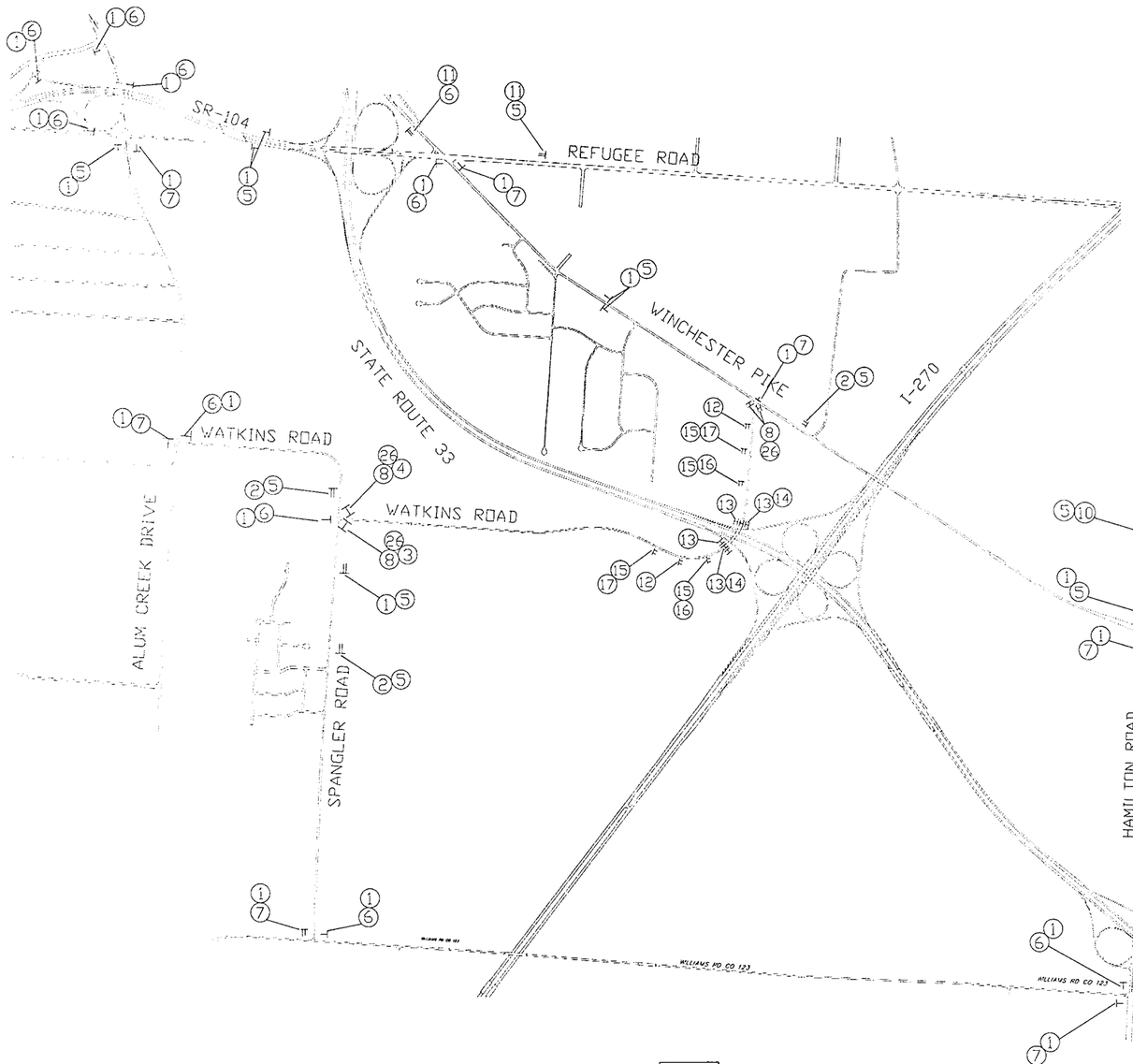
REINFORCING STEEL

WATKINS ROAD BRIDGE OVER US ROUTE 33

7/12

0310-ST

C:\RIC\WATKINS\WTK_RS.DWG



9 DETOUR AHEAD
OW-127-48

WATKINS ROAD CLOSED AT US 33 BRIDGE USE WILLIAMS
48 X 60 BLK/ORG
10

WATKINS ROAD CLOSED AT US 33 BRIDGE USE ALUM CREEK DR
48 X 60 BLK/ORG
11

WATKINS ROAD CLOSES MONTH DATE 8PM THRU MONTH DATE 4PM
48 X 96 BLK/ORG
TO BE POSTED A MINIMUM OF 2 WEEKS PRIOR TO CLOSURE
12

13 R-75 ROAD CLOSED
10' TYPE III BARRICADE SOLID

14 R-418-36 DO NOT ENTER
10' TYPE III BARRICADE SOLID

1 WATKINS ROAD
48 X 12 BLK/ORG

2 WATKINS ROAD CLOSED AT US 33 BRIDGE
60 X 36 BLK/ORG

3 DETOUR
OC-14-R

4 DETOUR
OC-14-L

5 DETOUR
OC-29

6 DETOUR
OC-29R

7 DETOUR
OC-29L

8 ROAD CLOSED AT BRIDGE LOCAL TRAFFIC ONLY
R76M
PORTABLE TYPE III BARRICADE
54 X 10 BLK/ORG

15 ROAD CLOSED AHEAD
OW-120-48

16 500 FT

17 1000 FT

N

CALCULATED RD
CHECKED BY GY

DATE 3-21-96

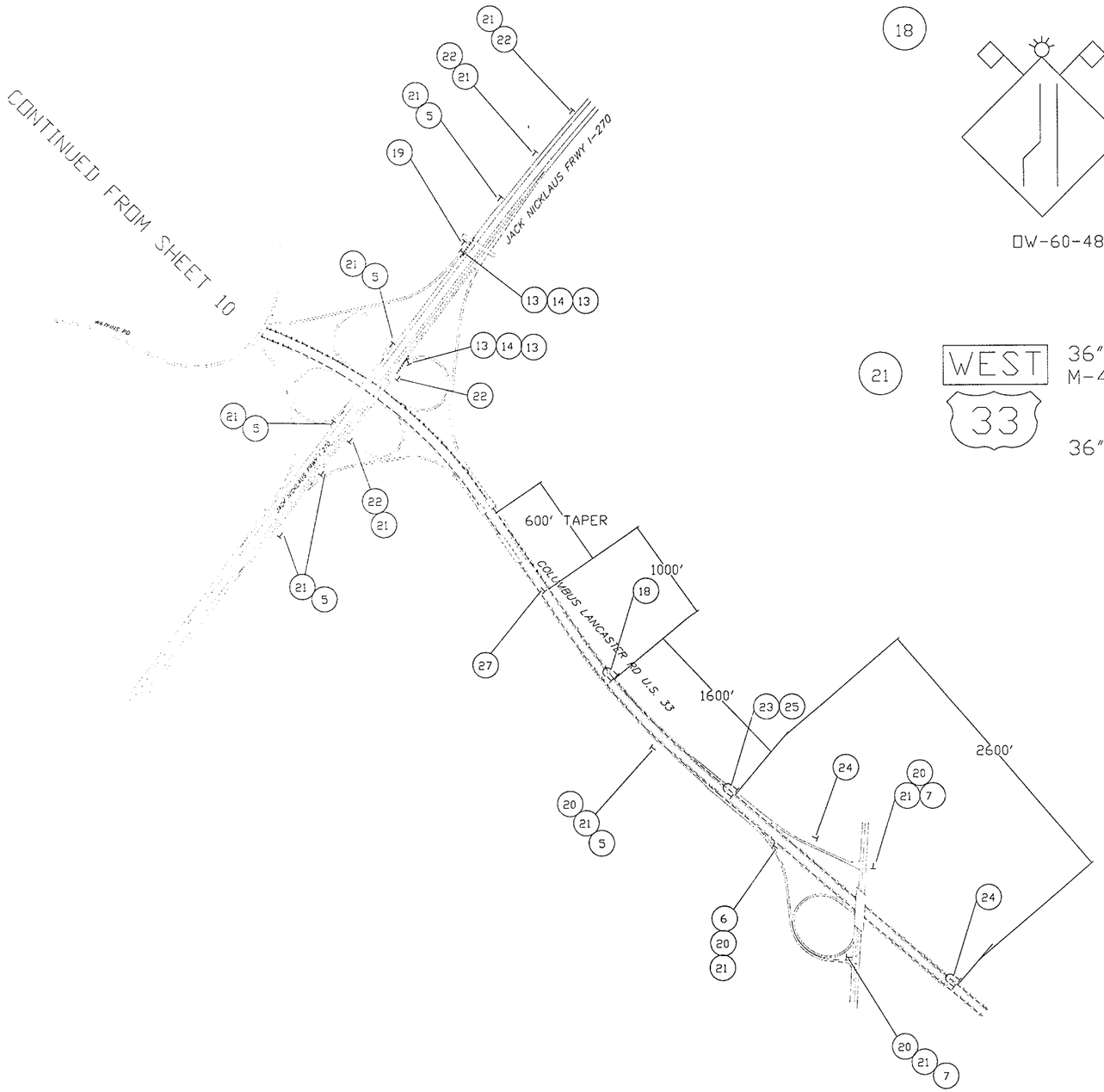
MAINTENCE OF TRAFFIC PLAN

WATKINS ROAD BRIDGE OVER U.S. ROUTE 33

8/12

0310-ST

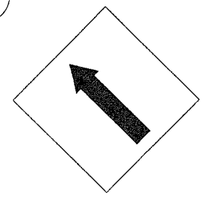
C:\RICHARD\WATKINS\WAT-MOT1.DWG



18

OW-60-48

19



OW-138-36

20



36" X 18"
IM-38-36

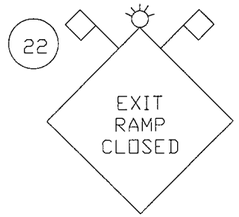
36"

21

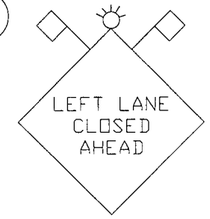
36" X 18"
M-40-36

36"

22

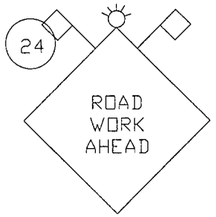


23



OW-123

24



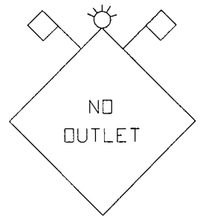
OW-134-48

25



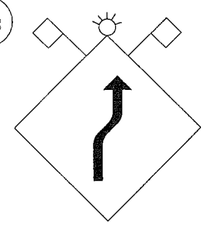
OW-143-24

26



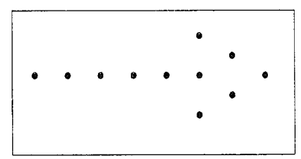
OW-48-36

28



OW-5-48

27



N

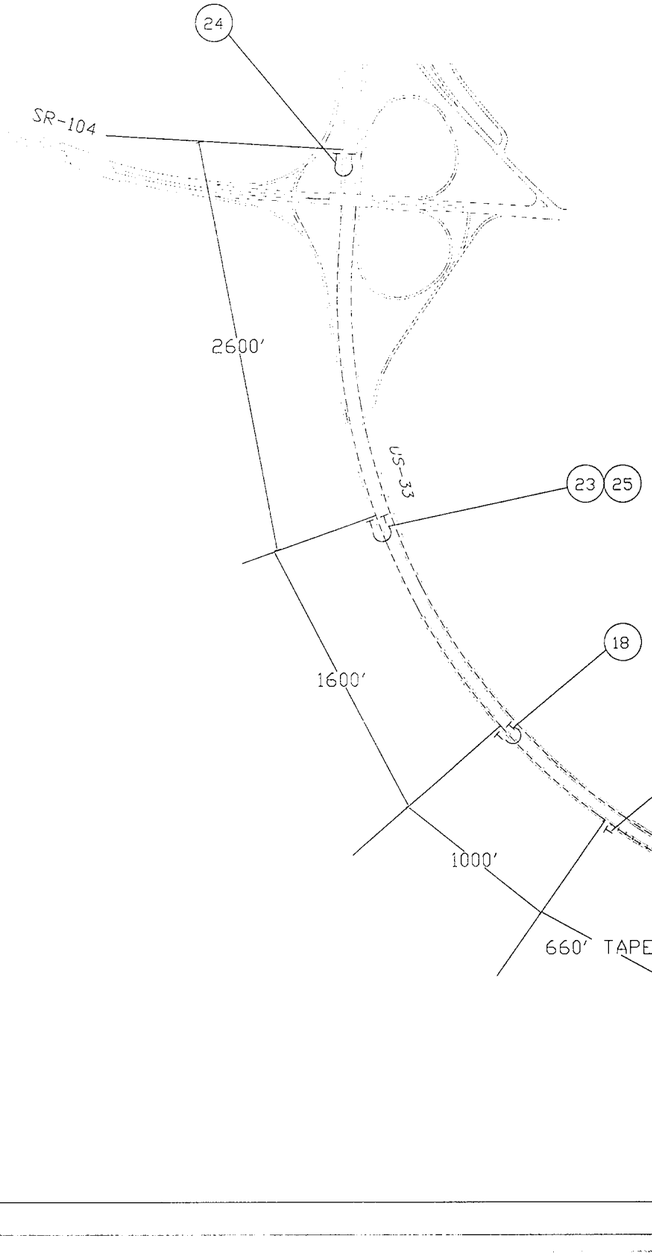
0 500' 1000' 1500'
SCALE IN FEET

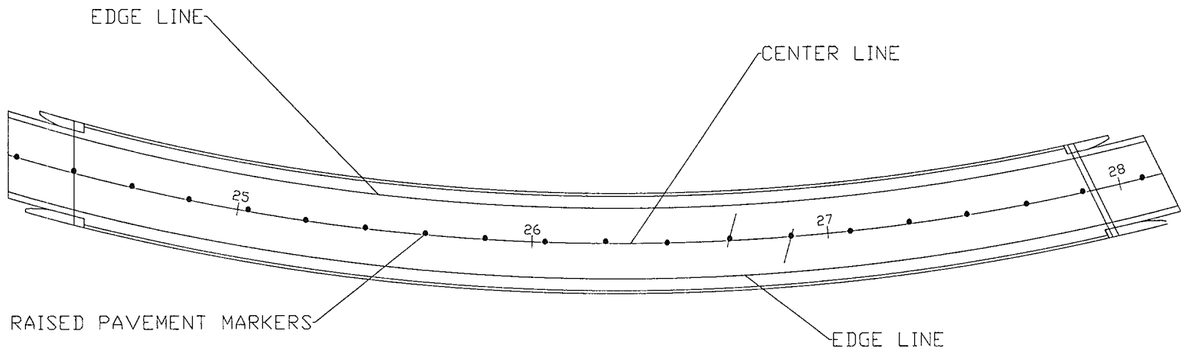
WATKINS ROAD
OVER US ROUTE 33

MAINTANCE OF
TRAFFIC PLAN

9
12

C:\RICHARD\WATKINS\WAT-MOT3.DWG





PAVEMENT DETAILS

NOTE:

RAISED PAVEMENT MARKERS ARE TO BE SPACED AT 20' C/C.

N

0 400 800 1200
SCALE IN FEET

WATKINS ROAD
OVER US ROUTE 33

MAINTENANCE OF
TRAFFIC

10
12

C:\RICHARD\WATKINS\WAT-MOT2.DWG

N

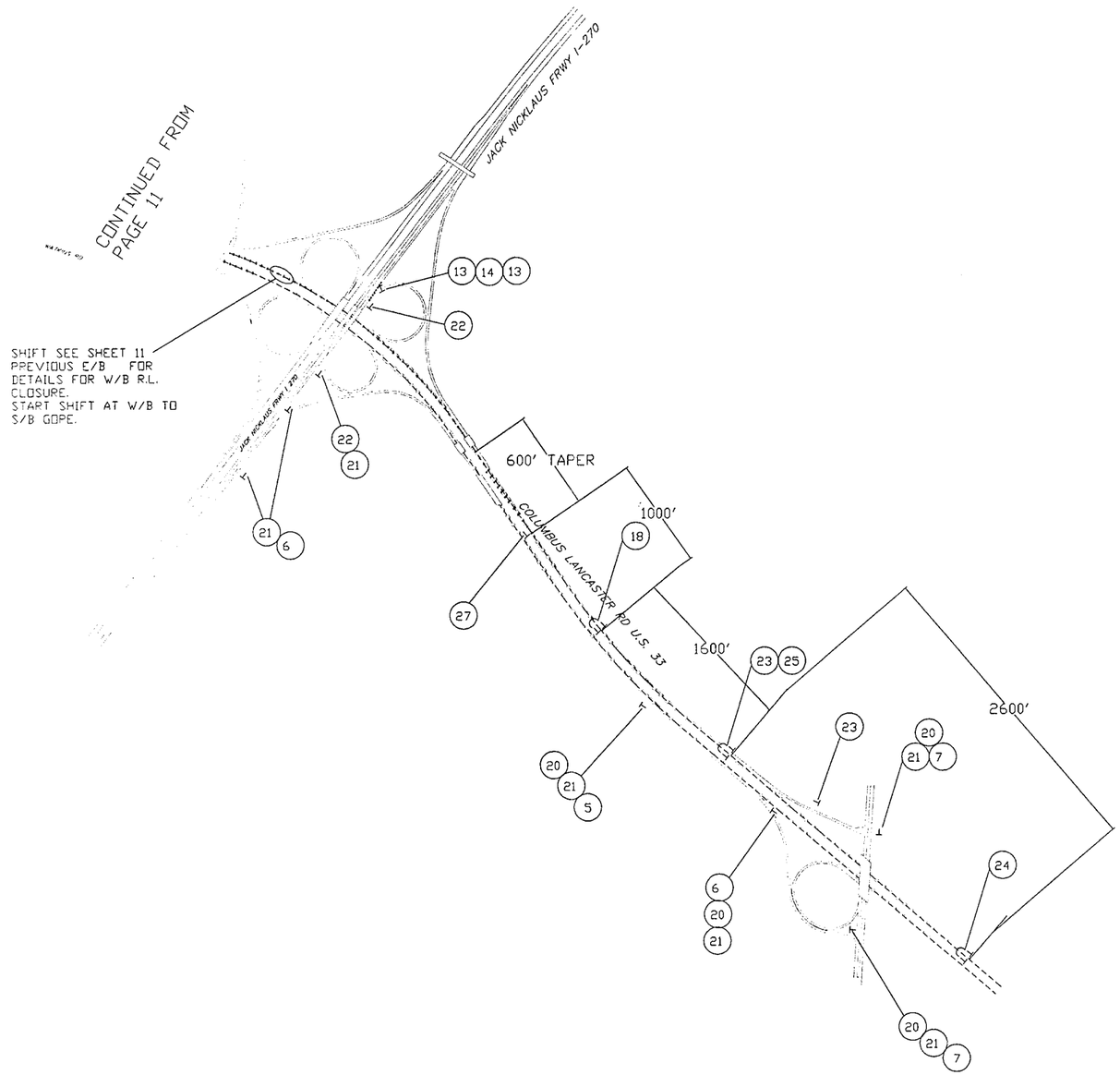
0 400' 800' 1200'
SCALE IN FEET

MAINTANCE OF TRAFFIC
PLAN

WATKINS ROAD
OVER US ROUTE 33

11
12

NORTHBOUND RIGHT LANE CLOSURE



0 500' 1000' 1500'
SCALE IN FEET

WATKINS ROAD
OVER US ROUTE 33

MAINTANCE OF
TRAFFIC PLAN

12
12

C:\RICHARD\WATKINS\WAT-MOT5.DWG