PREBLE COUNTY PRE-70-2.41	OHIO FHWA REGION 5	1 194
IM-70-1 (40) 02	FEDERAL PROJECT	

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
PRE-70-2.41
JEFFERSON & JACKSON TOWNSHIPS
PREBLE COUNTY

IM-70-1 (40) 02

DESIGN DESIGNATION :

CURRENT ADT (1992)	= 23,339
DESIGN YEAR ADT (2011)	= 32,130
D. H. V.	= 2295
D	= 55 %
T	= 34 %
V-LEGAL	= 65
DESIGN SPEED	= 65
FUNCTIONAL CLASSIFICATION	= INTERSTATE (RURAL)
DESIGN EXCEPTIONS	= NONE

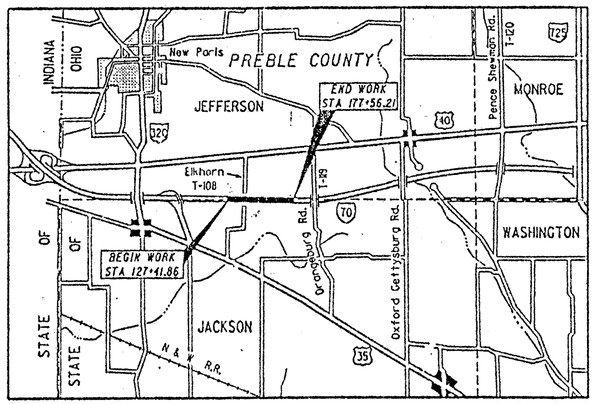
CONVENTIONAL SIGNS :

LIMITED ACCESS & RIGHT OF WAY (EXISTING) ——— LA & RW ——— LA & RW ———
LIMITED ACCESS & RIGHT OF WAY (PROPOSED) ——— LA & RW ——— LA & RW ———
LIMITED ACCESS (ONLY) (EXISTING) ——— L/A ——— L/A ———
LIMITED ACCESS (ONLY) (PROPOSED) ——— L/A ——— L/A ———
PROPOSED RIGHT OF WAY ——— RW ———
EXISTING RIGHT OF WAY ——— RW ———
PROPERTY LINE ——— ℄ ——— (ALONG EXISTING FENCE) —X— ℄ —X—
GUARDRAIL (EXISTING) (PROPOSED)
FENCE (EXISTING) (PROPOSED)
CENTERLINE
CORPORATION LIMIT
UTILITY POLES: TELEPHONE POWER LIGHT

INDEX OF SHEETS :

TITLE SHEET	1	CULVERT EXTENSION DETAIL	80
SCHEMATIC PLAN	2	INLET DETAIL	81
EROSION CONTROL	3	SHALLOW PIPE UNDERDRAIN DETAIL	82
TYPICAL SECTIONS	4-9	CROSS SECTIONS	83-159
GENERAL NOTES	10	LIGHTING PLAN	160-165
MAINTENANCE OF TRAFFIC	11-27	TRAFFIC CONTROL	166-174
PAVEMENT CALCULATIONS	28-31	LANDSCAPING / GRADING PLAN	175-188
GENERAL SUMMARY	32-33	RIGHT-OF-WAY PLAN	189-194
PAVEMENT ELEVATIONS	34-39		
ISLAND DETAILS	40-44		
JOINT DETAILS	45-48		
SIDEWALK DETAILS	49-50		
SUBSUMMARIES	51-52		
PLAN AND PROFILE SHEETS	53-64		
DRAINAGE SUBSUMMARIES	65-66		
DRAINAGE PLAN SHEETS	67-72		
DRAINAGE PROFILE EASTBOUND	73-74		
DRAINAGE PROFILS WESTBOUND	75-77		
CHANNEL DETAIL	78		
CULVERT DETAIL	79		

09-28-93



LOCATION MAP :

SCALE IN MILES 0 1 2 3
STATE AND FEDERAL ROUTES
OTHER ROADS

SCALES

PLAN 25 / 50
PROFILE: HORIZONTAL 25 / 50
PROFILE: VERTICAL 2 / 1 5
CROSS SECTION: HORIZ. 2 5 / 1 3 10
CROSS SECTION: VERT. 2 5 / 1 3 10

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 in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

1993 SPECIFICATIONS :

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway except for the affected Rest Area, and that provisions for maintenance and safety of traffic will be set forth in these plans and estimate.

L&D

APPROVED Gary M. Kaltenbach
DATE 6-18-93 DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

APPROVED Christopher L. Thompson
DATE 6-17-93 DEPUTY DIRECTOR, DESIGN

APPROVED Jerry Wray
DATE 6-17-93 DIRECTOR, DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED

DIVISION ADMINISTRATOR DATE

UNDERGROUND UTILITIES

2 WORKING DAYS
BEFORE YOU DIG
CALL 800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

LINE DATA :

LENGTH OF PROJECT	0.00 Lin. Ft. OR 0.00 MI.
BEGIN WORK	STATION 127+41.86
END WORK	STATION 177+56.21
DEDUCTIONS (FOR STATION EQUATION)	-1.00 LIN. FT.
ADD FOR SIGNING WORK	100.00 LIN. FT.
LENGTH OF WORK	5113.35 Lin. Ft. OR 0.968 MI.

PLAN PREPARED BY : CATHY KING

OHIO DEPARTMENT OF TRANSPORTATION
BUREAU OF LOCATION AND DESIGN
PLAN PREPARATION SECTION
COLUMBUS, OHIO

PROJECT :

DATE OF LETTING , 19 CONTRACT NO.

SEAL

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-1.1	02-21-92	GR-4.1	05-06-91	HW-4B	04-01-80	TC-41.10	08-29-84
BP-2.1	02-21-92	GR-4.2	05-06-91	I-2A	12-18-84	TC-41.20	03-26-79
BP-2.2	02-21-92	GR-5.1	10-30-92	LA-1	06-01-79	TC-41.50	03-26-79
BP-3.1	02-21-92	HL-10.11	05-01-87	LA-2	06-01-79	TC-42.10	08-19-77
BP-5.1	02-21-92	HL-10.12	05-01-87	MC-4	07-26-76	TC-42.20	03-26-79
BP-6.1	02-21-92	HL-10.13	05-01-87	MC-10	05-01-76	TC-51.10	01-20-84
BP-7.1	10-30-92	HL-10.31	05-01-87	MC-11	08-01-78	TC-51.11	01-20-84
CB-2-2A/B	05-01-79	HL-20.11	05-01-87	MT-95.30	10-10-80	TC-52.10	04-03-79
CB-5	11-10-83	HL-30.11	05-01-87	MT-98.13	08-25-89	TC-52.20	04-03-79
CB-6	05-01-79	HL-30.21	05-01-87	MT-98.14	08-25-89	TC-61.10	04-05-82
F-2	05-01-76	HL-30.22	05-01-87	MT-98.15	08-25-89	MT-105.10	7-1-92
F-6	05-01-76	HL-40.10	05-01-87	MT-99.10	11-14-86	MT-105.11	7-1-92
GR-1.1	5-6-91	HL-60.11	05-01-87	MT-99.20	04-29-88		
GR-1.2	10-30-92	HL-60.31	05-01-87	MT-101.60	7-1-92	GR-1.3	2-21-92
GR-2.1	05-06-91	HW-4A	04-01-80	TC-35.10	08-29-84		

SUPPLEMENTAL SPECIFICATIONS

801	1-22-90	944	3-18-92
931	3-18-92	942	3-18-92
943	6-10-87	946	3-3-92
841	5-16-84	948	2-1-93
842	5-16-84	802	1-13-90
843	7-29-88	820	3-18-92

SCHEMATIC PLAN

CALC BY DATE ____ CHKD BY DATE ____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

2
194

BEGIN WORK
STA. 127+41.86
S.L.M. 2.41

IR-70-1 (40) 02

11 STA 127+41.86
11 66' LT ℄ I-70 -
STA 87+99.74
LINE "S"

90 S 89° 44' 26" E 95 LINE "S"

℄ I-70
130 S 88° 32' 49" E 135

S 88° 32' 49" E 5 LINE "A"

MATCH LINE STA 137+00

STA 128+45.01 66' RT ℄ I-70 -
STA 0+00 LINE A

STA 129+49.01 78' RT ℄ I-70 -
STA 1+00 LINE A

STA 100+00 BK -
STA 0+00 AH LINE "S" -

STA 131+99.91 78' RT ℄ I-70 -
PC 3+51.62 LINE "A"

PC 5+27.41 LINE "T" -
STA 5+27.41 ℄ LINE "S"

A1

T1

S1

F

PC 7+35.79

LINE "S" S 89° 44' 26" E 5 LINE "T"

S2

PT 13+52.40

154+77
42" culvert

PC 18+60.26

PT 19+62.00

S3

G

S 80° 24' 26" E

LINE "S" 25

PT 30+58.63

S 77° 39' 34" E

V1

PI 33+08.88
END LINE "V"

PC 27+90.29
LINE "S"

MATCH LINE STA 137+00

140 ℄ I-70 S 88° 32' 49" E 145 150 155 160 165

STA 15+23.19 BK -
STA 15+23.43 AH

PC 15+23.43

PT 20+78.38

PC 28+92.11

N 81° 40' 49" E

LINE "A" S 80° 14' 28" E

S 77° 29' 34" E 10

PT 9+05.35 LINE "A" -
STA 9+05.35 LINE "B"

PC 11+55.64

B1

LINE "B" 15

A2

STA 15+79.96
℄ LINE "B"

STA 15+79.96
℄ LINE "C"

END LINE "B"
PT 15+79.96

S 43° 32' 49" E 20

STA 18+25 LINE "E" -
STA 18+25 118.50' LT
℄ LINE "C"

A3

30+25.46 "E"
PT 26+40.71
18" conduit

PC 25+70.76
PC 25+52.09 AH
25+52.09 BK

S 88° 32' 49" E 25

PC 34+36.35
STA 31+18.46 9' RT ℄ LINE "E"

PT 34+05.01 LINE "D" -

D1

D2

A4

PT 32+28.62 LINE "A"
PT 38+10.33 LINE "D"

35 S 89° 54' 25" E 40

MATCH LINE STA 137+00

STA 18+25 LINE "F" -
STA 18+25 118.50' RT
℄ LINE "C"

B

C

PC 30+58.65
STA 30+29.68 LINE "D" -
STA 30+29.68 9' RT
℄ LINE "C"

PT 30+29.68 LINE "C"
PI 32+67.51 LINE "F"

PT 30+99.01

66

E1

PC 21+70.02

PT 22+94.90

E2

PC 24+10.49

PT 25+65.37

PC 21+20.93

PT 22+45.81

LINE "E"

S 88° 32' 49" E 25

C1

PC 22+16.20

PT 23+46.56

C2

PC 27+01.38

F2

PC 28+49.25

F1

LINE "F" S 88° 32' 49" E 25

A

S4

30 LINE "S" S 88° 42' 49" E

PT 33+44.03 LINE "S" -
STA 172+53.84 78' LT ℄ I-70

STA 35+94.21 LINE "S"
STA 175+04.02 78' LT ℄ I-70

STA 165+75.69 91' RT ℄ I-70
- STA 37+90.62 LINE "A"

STA 36+94.93
LINE "S"

STA 176+04.02
66' LT ℄ I-70

STA 177+04.14 BK -
STA 177+05.14 AH

℄ I-70
170 S 88° 42' 49" E 175

MATCH LINE STA 168+00

LINE "A" 171+28
36" Culvert

45 S 89° 54' 26" E

176+05
27" Culvert

0 200 400
SCALE IN FEET

STA 49+70.66
LINE "A"
66' RT ℄ I-70
STA 177+56.21

END WORK
STA. 177+56.21
S.L.M. 3.36

IR-70-1 (40) 02

NOTE : SEE SHEETS 8 & 9 FOR PAVEMENT DETAILS

WESTBOUND CURVE DATA

CURVE S1 DATA	CURVE S2 DATA	CURVE S3 DATA	CURVE S4 DATA	CURVE T1 DATA
P.I. Sta. 8+88.06	P.I. Sta. 11+97.48	P.I. Sta. 19+11.22	P.I. Sta. 30+67.65	P.I. Sta. 7+04.72
Δ =24° 0' 22.7"LT	Δ =25° 12' 1.8"RT	Δ =8° 8' 22.5"RT	Δ =8° 18' 21.9" LT	Δ =43° 48' 23.9"LT
Dc=8° 0' 0"	Dc=8° 0' 0"	Dc=8° 0' 0"	Dc=1° 30' 0"	Dc=12° 59' 32.1"
L=300.08'	L=315.01'	L=101.74'	L=553.74'	L=337.18'
T=152.88'	T=160.09'	T=50.96'	T=277.36'	T=177.31'
E=16.01'	E=17.67'	E=1.81'	E=10.06'	E=34.31'
R=716.20'	R=715.20'	R=716.20'	R=3819.72'	R=441.00'

CURVE U1 DATA	CURVE U2 DATA	CURVE V1 DATA	CURVE W1 DATA	CURVE W2 DATA
P.I. Sta. 15+76.25	P.I. Sta. 19+94.31	P.I. Sta. 28+51.96	P.I. Sta. 15+27.17	P.I. Sta. 18+47.06
Δ =45° 0' 0"RT	Δ =45° 0' 0" RT	Δ =34° 6' 44.9"LT	Δ =45° 0' 0" RT	Δ =45° 0' 0" RT
Dc=36° 2' 6.3"	Dc=36° 2' 6.3"	Dc=8° 0' 0"	Dc=36° 2' 6.3"	Dc=36° 2' 6.3"
L=124.88'	L=124.88'	L=426.41'	L=124.88'	L=124.88'
T=65.86'	T=65.86'	T=219.73'	T=65.86'	T=65.86'
E=13.10'	E=13.10'	E=32.95'	E=13.10'	E=13.10'
R=159.00'	R=159.00'	R=716.20'	R=159.00'	R=159.00'

CURVE X1 DATA	CURVE X2 DATA	CURVE X3 DATA	CURVE Y1 DATA
P.I. Sta. 13+37.05	P.I. Sta. 16+67.28	P.I. Sta. 21+83.20	P.I. Sta. 10+47.25
Δ =45° 0' 0" RT	Δ =45° 0' 0"RT	Δ =45° 0' 0" RT	Δ =45° 0' 0" LT
Dc=34° 30' 55.9"	Dc=34° 30' 55.9"	Dc=34° 30' 55.9"	Dc=14° 29' 6.5"
L=130.38'	L=130.38'	L=130.38'	L=310.66'
T=68.76'	T=68.76'	T=68.76'	T=163.84'
E=13.68'	E=13.68'	E=13.68'	E=32.59'
R=166.00'	R=166.00'	R=166.00'	R=395.55'

EASTBOUND CURVE DATA

CURVE A1 DATA	CURVE A2 DATA	CURVE A3 DATA	CURVE A4 DATA
P.I. Sta. 6+28.97	P.I. Sta. 17+67.09	P.I. Sta. 26+12.88	P.I. Sta. 30+60.67
Δ =6° 18' 21.5" RT	Δ =8° 18' 21.5"LT	Δ =80° 13' 37.8"RT	Δ =8° 24' 45.6" RT
Dc=1° 30' 0"	Dc=1° 42' 20.6"	Dc=114° 35' 29.6"	Dc=2° 30' 0"
L=553.73'	L=486.95'	L=70.01'	L=336.51'
T=277.35	T=243.90'	T=42.12'	T=168.56'
E=10.06'	E=8.84'	E=15.38'	E=6.19'
R=3819.72'	R=3359.04'	R=50.00'	R=2291.83'

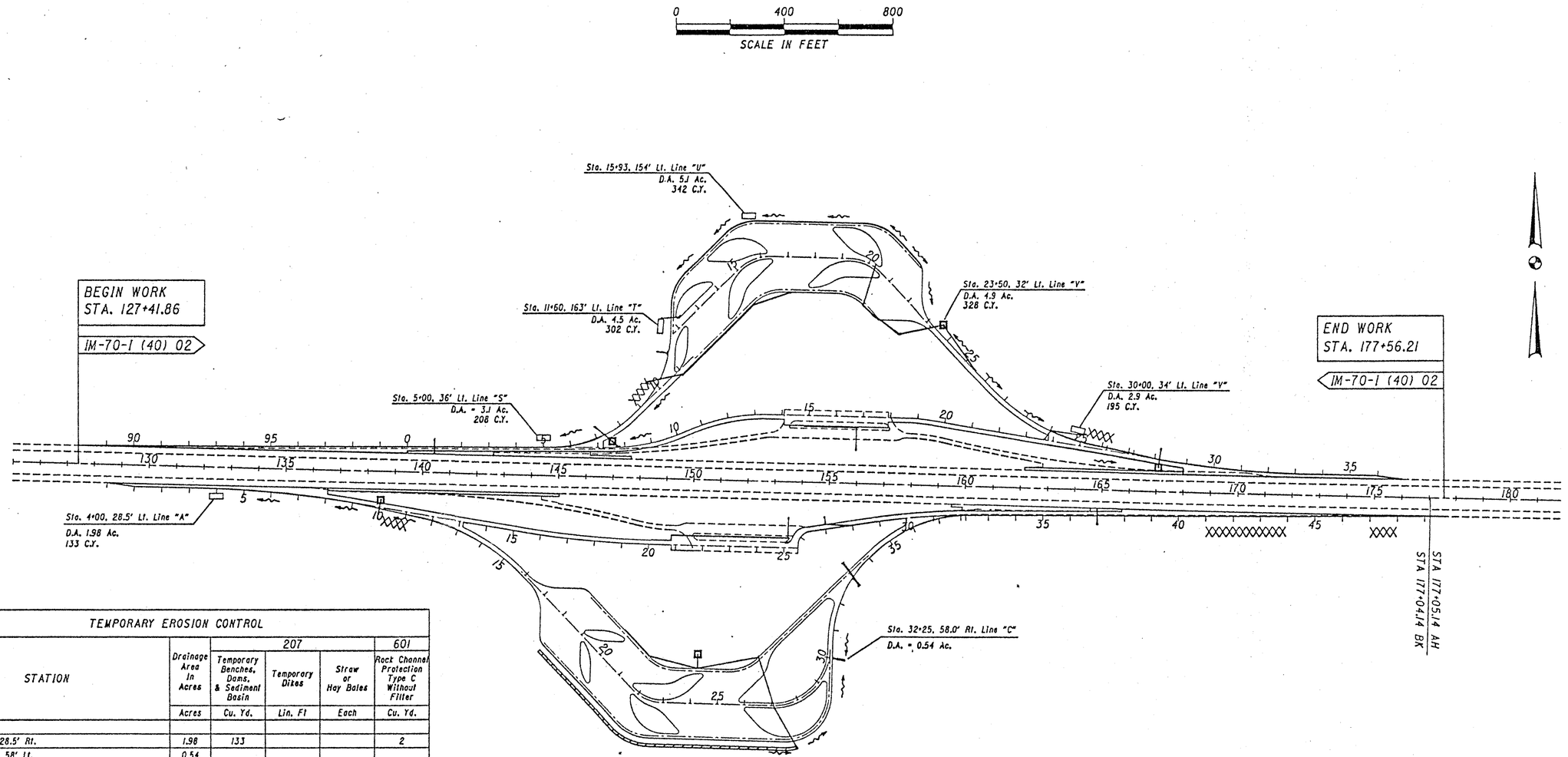
CURVE B1 DATA	CURVE C1 DATA	CURVE C2 DATA	CURVE D1 DATA
P.I. Sta. 13+74.23	P.I. Sta. 22+35.88	P.I. Sta. 29+10.38	P.I. Sta. 32+41.32
Δ =33° 56' 45.4"RT	Δ =45° 0' 0" LT	Δ =90° 0' 0" LT	Δ =45° 0' 0" RT
Dc=8° 0' 0"	Dc=36° 2' 6.3"	Dc=27° 24' 51.3"	Dc=12° 59' 32"
L=424.32'	L=124.88'	L=328.30'	L=346.36'
T=218.59'	T=65.86'	T=209.00'	T=182.67'
E=32.62'	E=13.10'	E=86.57'	E=36.34'
R=716.20'	R=159.00'	R=209.00'	R=441.00'

CURVE D2 DATA	CURVE E1 DATA	CURVE E2 DATA	CURVE F1 DATA	CURVE F2 DATA
P.I. Sta. 36+32.94	P.I. Sta. 21+86.79	P.I. Sta. 25+06.35	P.I. Sta. 22+84.96	P.I. Sta. 30+08.25
Δ =43° 38' 23.5"RT	Δ =45° 0' 0" LT	Δ =45° 0' 0" LT	Δ =45° 0' 0" LT	Δ =90° 0' 0" LT
Dc=11° 40' 8.3"	Dc=36° 2' 6.3"	Dc=36° 2' 6.3"	Dc=34° 30' 55.9"	Dc=36° 2' 6.3"
L=373.98'	L=124.88'	L=124.88'	L=130.38'	L=249.76'
T=196.59'	T=65.86'	T=65.86'	T=68.76'	T=159.00'
E=37.89'	E=13.10'	E=13.10'	E=13.68'	E=65.86'
R=491.01'	R=159.00'	R=159.00'	R=166.00'	R=159.00'

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

CALC BY / DATE	PREBLE COUNTY
CHKD BY / DATE	PRE-70-2.41

OHIO — FHWA REGION 5 — 3 / 194



TEMPORARY EROSION CONTROL		207			601
STATION	Drainage Area In Acres	Temporary Benches, Dams, & Sediment Basin	Temporary Dikes	Straw or Hay Bales	Rock Channel Protection Type C Without Filter
	Acres	Cu. Yd.	Lin. Ft	Each	Cu. Yd.
Eastbound					
4+00, Line "A", 28.5' Rt.	1.98	133			2
32+25, Line "C", 58' Lt.	0.54				
18+25, 34.5' RT. Line "F" to 28+75, 34.5' RT. Line "F"			1050		
10+00, Line "A" to 11+00, Line "A"				28	
41+00, Line "A" to 44+00, Line "A"				57	
47+00, Line "A" to 48"00, Line "A"				28	
Westbound					
5+00, Line "S", 36' Lt.	3.1	208			2
11+60, Line "T", 163' Lt.	4.5	302			3
15+93, Line "U", 154' Lt.	5.1	342			3
30+00, Line "S", 34' Lt.	2.9	195			2
9+00, Line "T" to 10+00, Line "T"				28	
25+00, Line "S" to 26+00, Line "S"				28	
TOTALS CARRIED TO GENERAL SUMMARY		1180	1050	169	12

NOTES

DITCH CHECKS - STRAW OR HAY BALE DITCH CHECKS AS SHOWN ON STD. DWG. MC-11 SHALL BE SPECIFIED WITH SMALL PITS EXCAVATED BEHIND THEM AT ALL SIGNIFICANT CHANGES IN THE DITCH GRADE. DITCH CHECKS SHOULD BE SPACED SO THAT NO CHECK IS WITHIN THE BACKWATER OF A DOWNSTREAM CHECK.

LOCATIONS AND QUANTITIES FOR THE DITCH CHECKS HAVE BEEN SHOWN ON THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN. AN ESTIMATED QUANTITY OF STRAW OR HAY BALES TO PROVIDE FOR THE DITCH CHECKS HAS BEEN INCLUDED IN THE TEMPORARY SOIL EROSION AND SEDIMENT CONTROL.

LEGEND

- ☐ B Straw or Hay Bales
- ▭ Sediment Basin
- ⇝ Direction of Flow
- ▭▭ Temporary Dikes
- XXX Ditch Check

CALC BY / DATE	PREBLE COUNTY	OHIO	4
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194

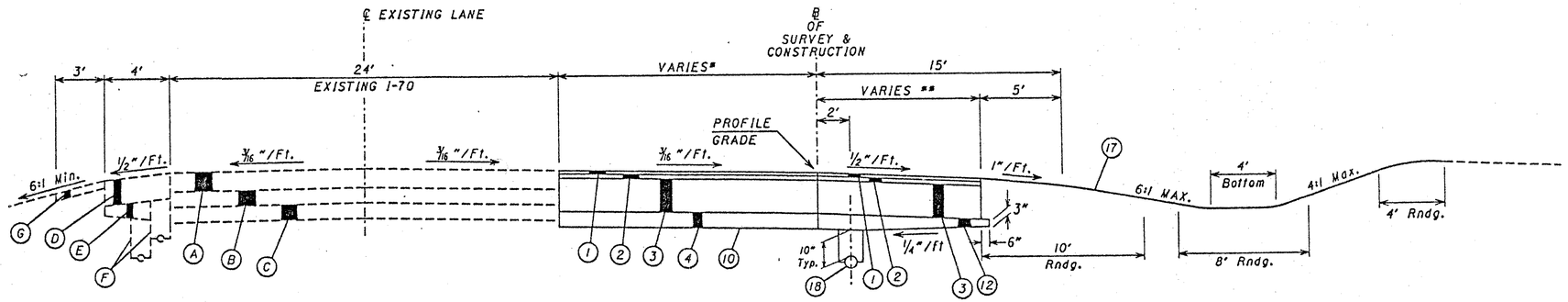
TYPICAL SECTIONS

TYPE 404 ON 301

LEGEND

(1) ITEM 404 1¼" Asphalt Concrete, AC-20
(2) ITEM 402 1¾" Asphalt Concrete, AC-20
(3) ITEM 301 13" Bituminous Aggregate Base, AC-20
(4) ITEM 304 6" Aggregate Base, As Per Plan
(5) ITEM 407 Tack Coat, See General Note
(6) ITEM 305 9" Concrete Base
(7) ITEM 451 9" Reinforced Concrete Pavement, As Per Plan
(8) ITEM 451 11" Reinforced Concrete Pavement, As Per Plan
(9) ITEM 452 11" Plain Concrete Pavement, As Per Plan
(10) ITEM 203 Subgrade Compaction
(11) ITEM 301 8" Bituminous Aggregate Base, AC-20
(12) ITEM 304 Variable Depth Aggregate Base, As Per Plan
(13) ITEM 254 Pavement Planing, Bituminous
(14) ITEM 608 4" Concrete Walk
(15) ITEM 609 CURB, TYPE 6
(16) ITEM 609 CURB, TYPE 7
(17) ITEM 659 Seeding and Mulching
(18) ITEM 605 Pipe Underdrain

(A) EXISTING ASPHALT 7½"
(B) EXISTING 9" RIGID PAVEMENT CRACK AND SEATED
(C) EXISTING 6" SUBBASE
(D) EXISTING ASPHALT SHOULDER, VARIABLE DEPTH
(E) EXISTING SUBBASE, VARIABLE DEPTH
(F) EXISTING UNDERDRAINS, DEEP AND SHALLOW
(G) EXISTING 3" COMPACTED AGGREGATE, TYPE B
(H) EXISTING ASPHALT WEARING COARSE
(J) EXISTING 9" REINFORCED PORTLAND CEMENT CONCRETE
(K) EXISTING 4" PORTLAND CEMENT CONCRETE SIDEWALK
(L) EXISTING CURB, TYPE 6
(M) EXISTING CURB, TYPE 8 MODIFIED



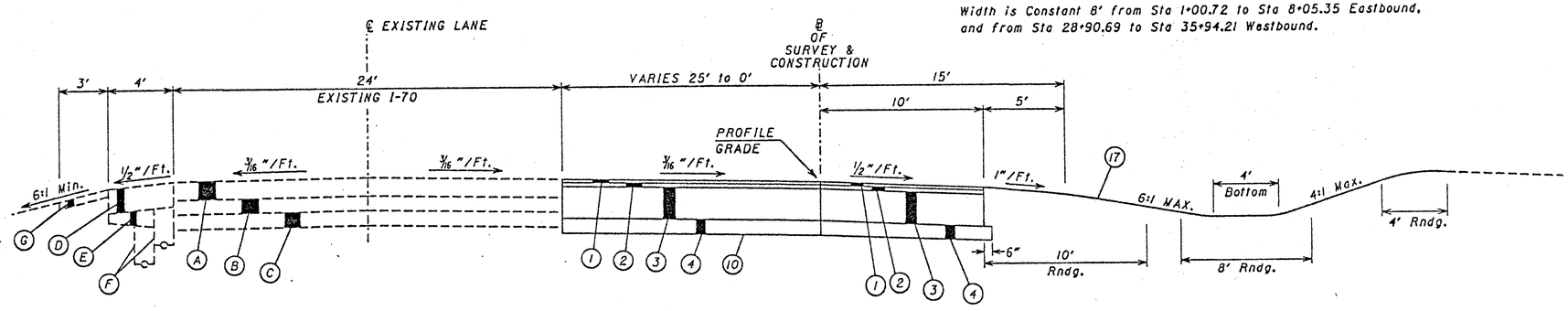
SPEED CHANGE LANE - DECELERATION

(IN THE DIRECTION OF TRAFFIC)

EASTBOUND STA. 0+00 TO STA. 8+05.35 (LINE "A") = 805.35 LINEAR FEET
WESTBOUND STA. 28+90.69 TO STA. 36+94.93 (LINE "S") = 804.24 LINEAR FEET
TOTAL = 1609.59 LINEAR FEET

* See Plan Sheet 53 & 64 for Variable Width.
Width is Constant 12' from Sta 1+00.72 to Sta 3+51.62 Eastbound.
and from Sta 33+44.03 to Sta 35+94.21 Westbound.

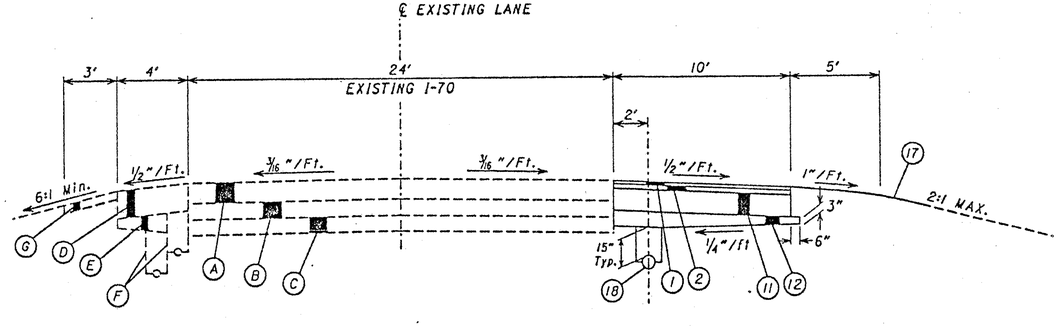
** See Plan Sheet 53 & 64 for Variable Width.
Width is Constant 8' from Sta 1+00.72 to Sta 8+05.35 Eastbound,
and from Sta 28+90.69 to Sta 35+94.21 Westbound.



SPEED CHANGE LANE - ACCELERATION

(IN THE DIRECTION OF TRAFFIC)

EASTBOUND STA. 37+90.62 TO STA. 49+70.66 (LINE "A") = 1180.04 LINEAR FEET
WESTBOUND STA. 87+99.74 TO STA. 100+00 (LINE "S") = 1200.26 LINEAR FEET
TOTAL = 2380.30 LINEAR FEET



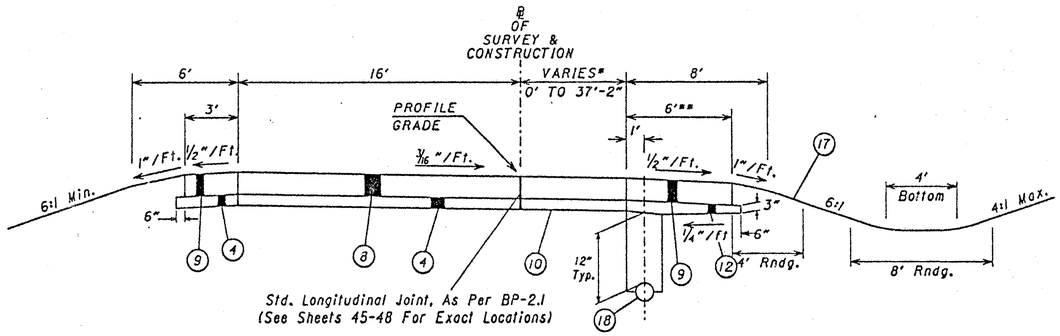
I-70 - BERM

(IN THE DIRECTION OF TRAFFIC)

EASTBOUND STA. 136+54.07 TO STA. 145+03.86 (I-70) = 849.79 LINEAR FEET
EASTBOUND STA. 159+50.04 TO STA. 159+90.44 (I-70) = 40.40 LINEAR FEET
WESTBOUND STA. 167+99.47 TO STA. 162+14.68 (I-70) = 584.79 LINEAR FEET
WESTBOUND STA. 147+67.35 TO STA. 146+72.13 (I-70) = 95.22 LINEAR FEET
TOTAL = 1570.20 LINEAR FEET

TYPICAL SECTIONS

TYPE 451 ON 304



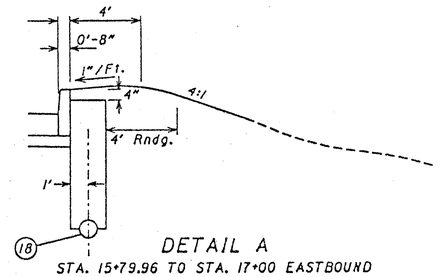
RAMP ENTERING REST AREA

(IN THE DIRECTION OF TRAFFIC)

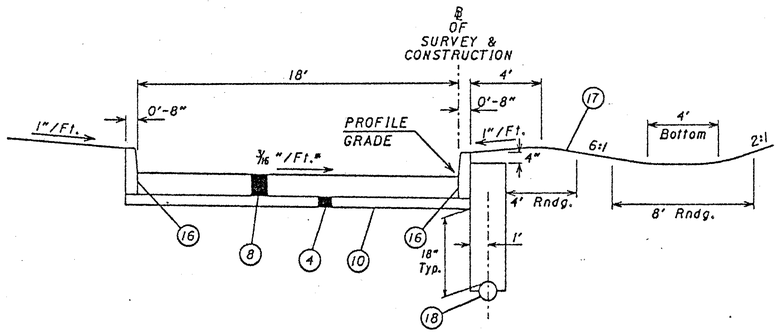
EASTBOUND STA. 8+05.35 TO STA. 13+14.00 (LINE "A") = 508.65 LINEAR FEET
WESTBOUND STA. 23+81.89 TO STA. 28+90.69 (LINE "S") = 508.80 LINEAR FEET
TOTAL = 1017.45 LINEAR FEET

* EASTBOUND STA. 9+05.35 TO STA 13+14.00
WESTBOUND STA. 23+81.89 TO STA. 27+90.29

** VARIES FROM 8' TO 6' EASTBOUND STA. 8+05+35 TO STA. 9+05.35
WESTBOUND STA. 27+90.29 TO STA. 28+90.69



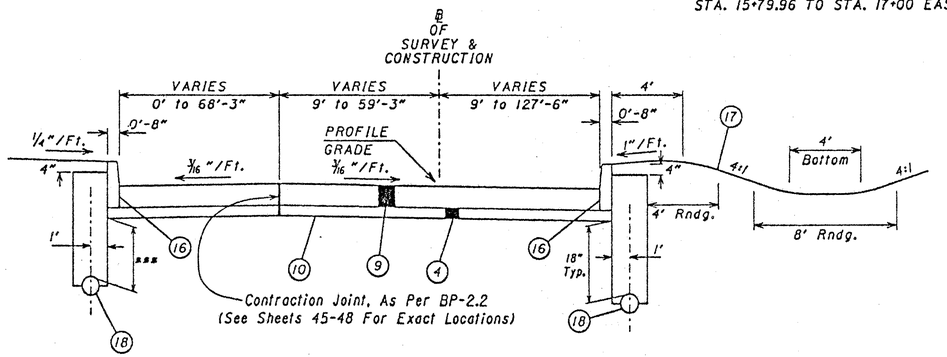
DETAIL A
STA. 15+79.96 TO STA. 17+00 EASTBOUND



RAMP ENTERING TRUCK PARKING AREA

(IN THE DIRECTION OF TRAFFIC)

EASTBOUND STA. 13+11.77 TO STA. 15+79.96 (LINE "B") = 268.19 LINEAR FEET
WESTBOUND STA. 23+25.49 TO STA. 29+02.70 (LINE "V") = 577.21 LINEAR FEET
TOTAL = 845.40 LINEAR FEET



RAMP ENTERING TRUCK PARKING AREA

(IN THE DIRECTION OF TRAFFIC)

EASTBOUND STA. 15+79.96 TO STA. 18+25 (LINE "C") = 245.04 LINEAR FEET - SEE DETAIL A
WESTBOUND STA. 21+75.03 TO STA. 23+25.49 (LINE "U") = 150.46 LINEAR FEET
TOTAL = 395.50 LINEAR FEET

***- SEE DRAINAGE PLAN SHEETS 67-72
FOR UNDERDRAIN DEPTH.

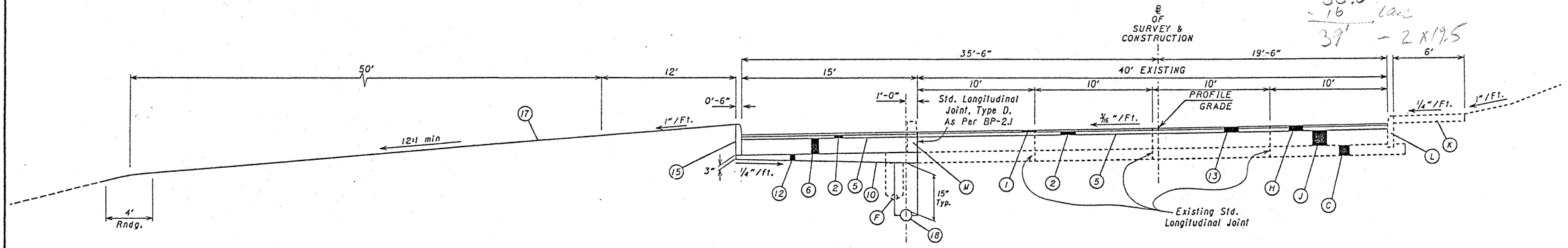
SEE SHEET 4 FOR LEGEND

CALC BY DATE	PREBLE COUNTY PRE-70-2.41	OHIO FHWA REGION 5	6 194
CHKD BY DATE			

TYPICAL SECTIONS

TYPE 451 ON 304

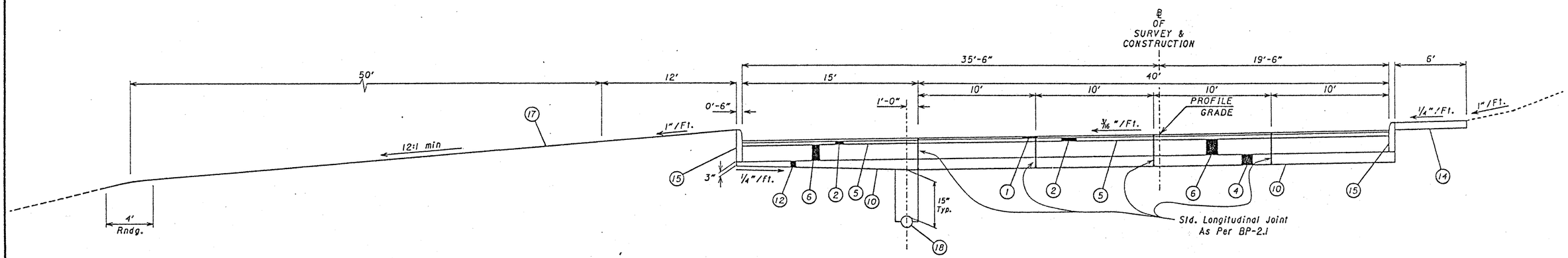
35.5
19.6
55.0'
-16
39' - 2x19.5



CAR PARKING AREA

(IN THE DIRECTION OF TRAFFIC)

EASTBOUND STA. 21+73.96 TO STA 25+57.09 (LINE "A") = 383.13 LINEAR FEET
WESTBOUND STA. 14+07.95 TO STA 17+90.25 (LINE "S") = 382.30 LINEAR FEET
TOTAL = 765.43 LINEAR FEET



CAR PARKING AREA

(IN THE DIRECTION OF TRAFFIC)

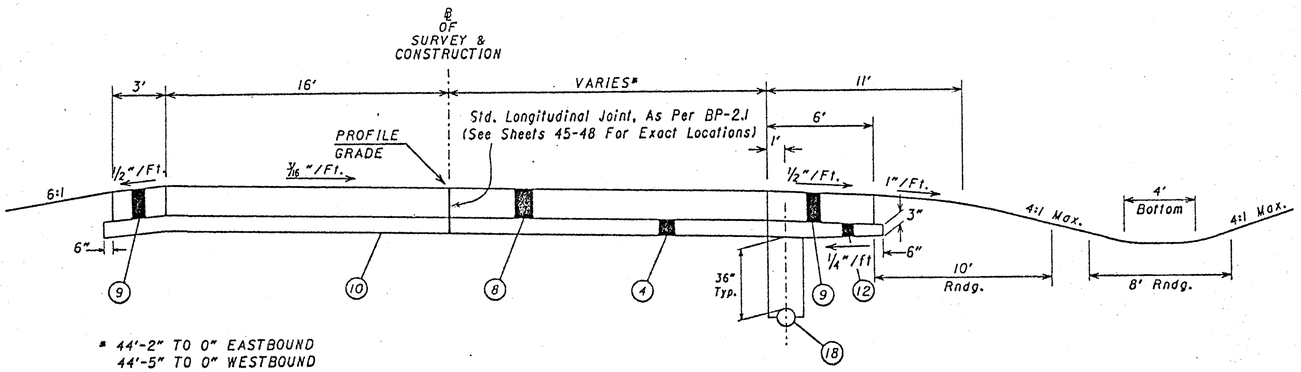
EASTBOUND STA. 20+84.97 TO STA 21+73.96 (LINE "A") = 88.99 LINEAR FEET

SEE SHEET 4 FOR LEGEND

CALC BY DATE	PREBLE COUNTY	OHIO	7
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

TYPICAL SECTIONS

TYPE 451 ON 304

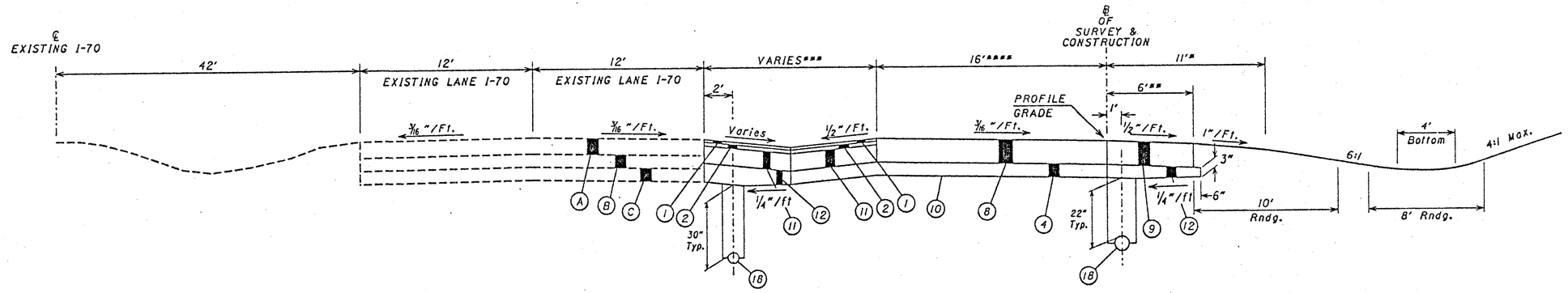


* 44'-2" TO 0" EASTBOUND
44'-5" TO 0" WESTBOUND

RAMP EXITING REST AREA

(IN THE DIRECTION OF TRAFFIC)

EASTBOUND STA. 29+96.80 TO STA. 32+28.62 (LINE "A") = 231.82 LINEAR FEET
WESTBOUND STA. 7+20.28 TO STA. 6+72.13 (LINE "S") = 48.15 LINEAR FEET
TOTAL = 279.97 LINEAR FEET



RAMP EXITING REST AREA

(IN THE DIRECTION OF TRAFFIC)

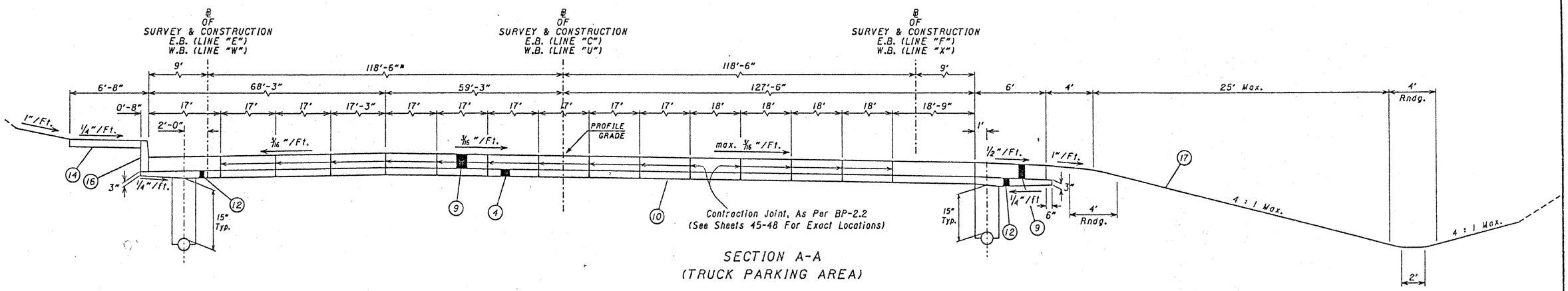
EASTBOUND STA. 32+28.62 TO STA. 37+90.62 (LINE "A") = 562.00 LINEAR FEET
WESTBOUND STA. 0+00.00 TO STA. 6+72.13 (LINE "S") = 672.13 LINEAR FEET
TOTAL = 1234.13 LINEAR FEET

* Varies from 11' to 15' Eastbound Sta. 36+90.62 to Sta. 37+90.62
Westbound Sta. 0+00 to Sta. 1+00
** Varies from 6' to 10' Eastbound Sta. 36+90.62 to Sta. 37+90.62
Westbound Sta. 0+00 to Sta. 1+00
*** Varies from 22.36' to 9' Eastbound Sta. 32+28.62 to Sta. 37+90.62
*** Varies from 9' to 20' Westbound Sta. 0+00 to Sta. 6+72.20
**** Varies from 16' to 40.74' Westbound Sta. 5+27.41 to Sta. 6+72.20

SEE SHEET 4 FOR LEGEND

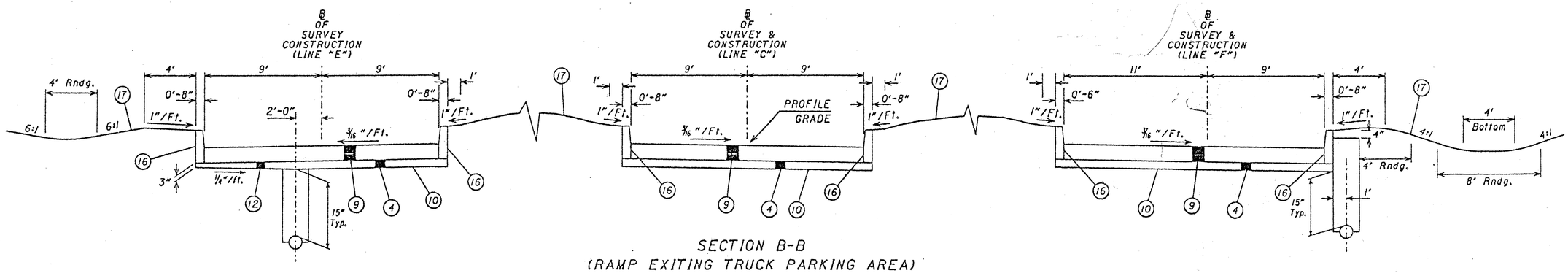
PAVEMENT DETAILS

CALC BY / DATE	PREBLE COUNTY	OHIO	8
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194



SECTION A-A
(TRUCK PARKING AREA)

NOTE : For Grading Plan Within Truck Parking Lot See Sheets 180 & 181.



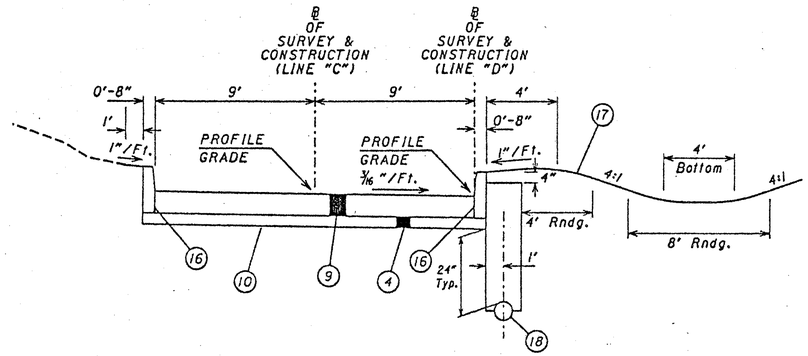
SECTION B-B
(RAMP EXITING TRUCK PARKING AREA)

SEE SHEET 2 FOR LOCATION OF SECTIONS

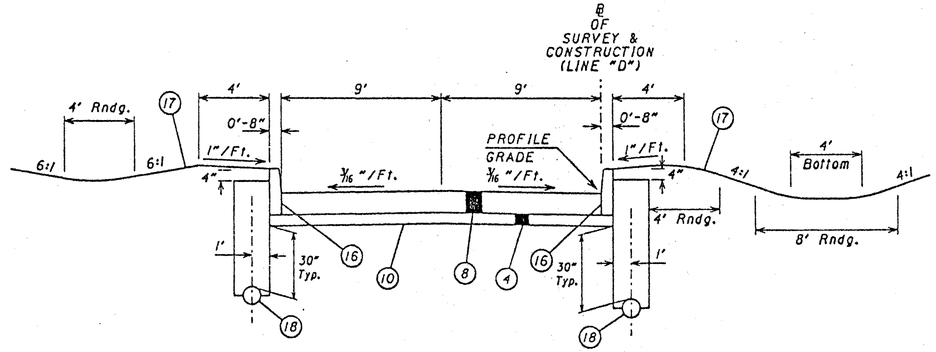
SEE SHEET 4 FOR LEGEND

PAVEMENT DETAILS

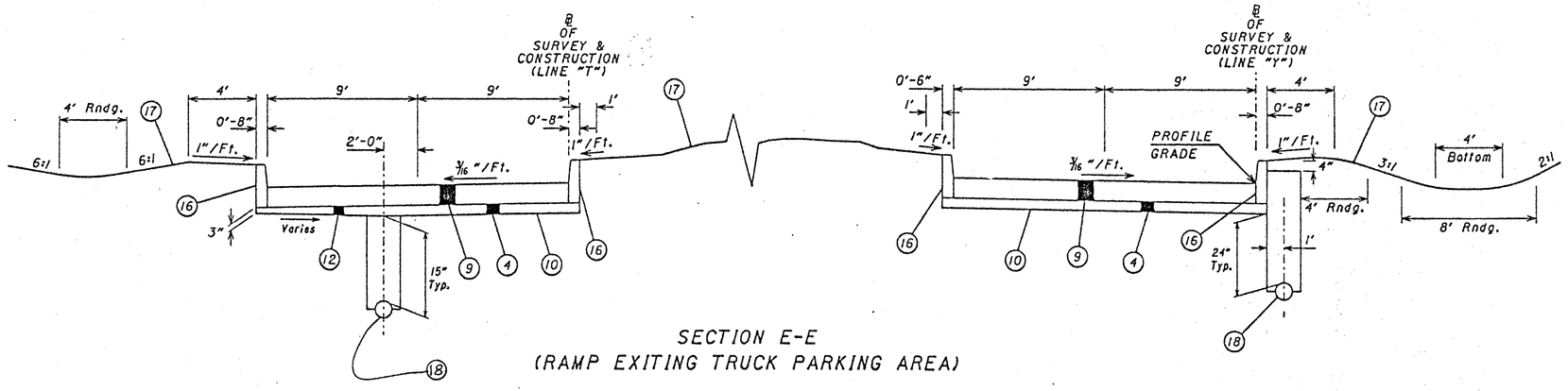
CALC BY DATE	PREBLE COUNTY	OHIO	9
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



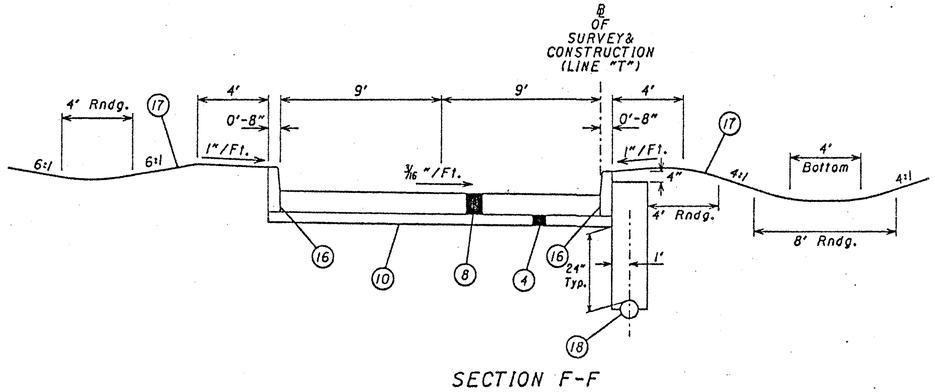
SECTION C-C
(RAMP EXITING TRUCK PARKING AREA)



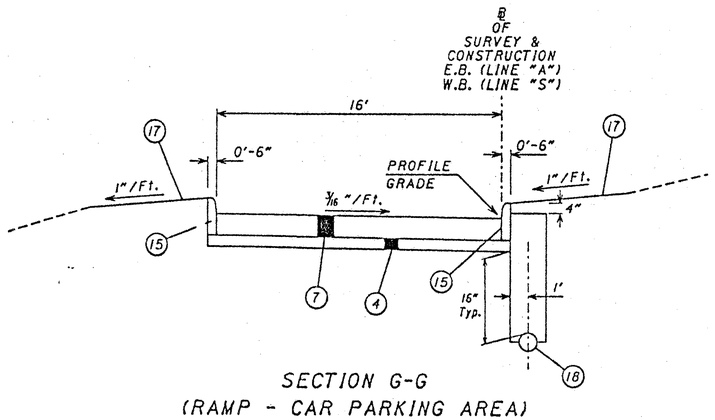
SECTION D-D
(RAMP EXITING TRUCK PARKING AREA)



SECTION E-E
(RAMP EXITING TRUCK PARKING AREA)



SECTION F-F
(RAMP EXITING TRUCK PARKING AREA)



SECTION G-G
(RAMP - CAR PARKING AREA)

SEE SHEET 2 FOR LOCATION OF SECTIONS

SEE SHEET 4 FOR LEGEND

GENERAL NOTES

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 LOCATION 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 ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT :

GAS & ELECTRIC :
DAYTON POWER & LIGHT CO.
P.O. BOX 1247
COURTHOUSE PLAZA, S.W.
DAYTON, OHIO 45401
513-227-2498
MR. HENRY TELLJOHAN

TELEPHONE :
UNITED TELEPHONE COMPANY OF OHIO
200 S. BROADWAY
GREENVILLE, OHIO 45331
513-547-8258
MR. LARRY RIFFLE

WATER, STORM & SANITARY SEWERS :
OHIO DEPT. OF TRANSPORTATION
DISTRICT 8
P.O. BOX 272
LEBANON, OHIO 45036-0272
513-932-3030
MR. JAMES RUNK

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. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATIONS

ALL ELEVATIONS ARE BASED ON USGS DATUM.

INLETS VARIOUS, AS PER PLAN, A

ALL REINFORCING STEEL LISTED IN THE STEEL LIST ON THE DRAWING (OR AS MODIFIED) SHALL BE EPOXY-COATED IN ACCORDANCE WITH 509.10.

ALL COSTS OF THE COATING SHALL BE INCLUDED IN THE COSTS OF THESE ITEMS.

INLETS VARIOUS, AS PER PLAN, B

ALL REINFORCING STEEL LISTED IN THE STEEL LIST ON THE DRAWING (OR AS MODIFIED) SHALL BE EPOXY-COATED IN ACCORDANCE WITH 509.10.

ALL COSTS OF THE COATING SHALL BE INCLUDED IN THE COSTS OF THESE ITEMS.

IN ADDITION SEE SHEET 81 FOR INLET DRAINAGE DETAIL.

TEMPORARY BENCHES, DAMS AND SEDIMENT BASINS

THE SEDIMENT BASIN QUANTITIES LISTED IN THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN ON PAGE 3 ARE THE STORAGE VOLUMES REQUIRED FOR THE SEDIMENT BASIN. THE PAY QUANTITY FOR EACH BASIN SHALL BE DETERMINED AS THE ACTUAL AMOUNT OF EXCAVATION OR EMBANKMENT REQUIRED TO PROVIDE THAT STORAGE VOLUME.

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 :

659 COMMERCIAL FERTILIZER	1.44	TON
207 TEMPORARY SEEDING AND MULCHING	36,400	SQ.YD.
207 STRAW OR HAY BALES	40	EACH
207 TEMPORARY BENCHES, DAMS & SEDIMENT BASINS	150	CU. YD.
207 TEMPORARY DIKES	105	LIN. FT.
659 WATER	79	M. GALS.

CORRUGATED STEEL CONDUIT FIELD PAVED AS PER PLAN

THE BOTTOM 1/4 OF THE CIRCUMFERENCE OF THE CONDUIT SHALL BE FIELD PAVED WITH CLASS C PORTLAND CEMENT CONCRETE. THE PAVING SHALL BE REINFORCED WITH 10 GUAGE GALVANIZED WIRE MESH HAVING OPENINGS OF 10" BY 6" (OR COMPARABLE). MESH SHALL HAVE A WIDTH 1" LESS THAN THE FINISHED PAVING. THE MESH SHALL BE SECURELY FASTENED TO THE CONDUIT BY CLIPS, TACK WELDING, OR ANOTHER METHOD APPROVED BY THE ENGINEER. THE MESH SHALL BE SECURED NEAR EACH EDGE AT THE CENTER OF THE MESH AT POINTS NOT MORE THAN FOUR FEET ALONG THE FLOW LINE OF THE CONDUIT.

THE CONCRETE PAVING SHALL BE 3" THICK MEASURED FROM THE TOP OF THE CORRUGATIONS OF THE CONDUIT. AFTER PLACING, THE CONCRETE SHALL BE STRUCK OFF WITH A TEMPLATE TO PRODUCE THE PROPER RADIUS AND FINISHED WITH A FLOAT TO PRODUCE A SMOOTH FINISH. THE CURING OF THE CONCRETE SHALL BE IN ACCORDANCE WITH 451.10. THE PAVING SHALL BE PLACED AFTER COMPLETION OF THE FILL OVER THE CONDUIT. WHERE THE DEPTH OF FILL EXCEEDS FOUR FEET OVER THE CROWN OF THE CONDUIT THE PAVING MAY BE PLACED AFTER PLACEMENT OF THE 4 FEET OF FILL. IF THE PAVING IS PLACED PRIOR TO COMPLETION OF THE ENTIRE FILL, ANY GAP BETWEEN THE STEEL CONDUIT AND CONCRETE PAVING SHALL BE CLEANED AND THEN FILLED WITH HEATED BITUMINOUS MATERIAL MEETING 705.04.

THE COST OF THE PAVING MATERIAL, LABOR AND EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR THE ITEM 603 CONDUIT.

EROSION CONTROL PADS AND ANIMAL GUARDS

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL PIPE UNDERDRAINS AND FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING MC-4, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 603, 6" CONDUIT, TYPE "F".

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

EROSION CONTROL

ITEM 601 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 670. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS UNDER THE DIRECTION OF THE ENGINEER. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE RIGHT-OF-WAY LIMITS BY ITEM 603 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF THE ROADWAY DITCHES, SHALL BE OUTLETED INTO THE ROADWAY DITCH BY 603, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE, IF POSSIBLE, ONE FOOT ABOVE THE FLOWLINE OF THE DITCH. LATERAL TILE FIELDS WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 603, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION, AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

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

ITEM 603 12" CONDUIT, TYPE B	100 LIN. FT.
ITEM 603 6" CONDUIT, TYPE E	100 LIN. FT.
ITEM 603 8" CONDUIT, TYPE E	100 LIN. FT.
ITEM 603 6" CONDUIT, TYPE F	100 LIN. FT.
ITEM 603 8" CONDUIT, TYPE F	100 LIN. FT.

ITEM 451-REINFORCED CONCRETE PAVEMENT, AS PER PLAN

ALL TRANSVERSE AND LONGITUDINAL JOINTS SHALL BE PLACED AS SHOWN ON SHEETS 45-48. JOINT SEALER SHALL MEET REQUIREMENTS OF SUPLEMENTAL SPECIFICATION 801, CLASS III. THE 801 JOINT SEALING WILL BE INCIDENTAL TO THIS PAY ITEM.

ITEM 452-PLAIN CONCRETE PAVEMENT, AS PER PLAN

ALL "AS PER PLAN" REQUIREMENTS FOR ITEM 451-REINFORCED CONCRETE PAVEMENT, AS PER PLAN SHALL APPLY FOR THIS ITEM. REINFORCING STEEL, AS PER BP-2.2 WILL BE REQUIRED AS INDICATED ON SHEETS 45-48 AND SHALL BE CONSIDERED INCIDENTAL TO THIS PAY ITEM.

TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 304-AGGREGATE BASE, AS PER PLAN

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG EXCEPT GRANULATED SLAG OR CRUSHED AIR-COOLED BLAST FURNACE SLAG. THE MAXIMUM TOTAL PERCENT PASSING THE NO. 200 SIEVE FOR 304 SHALL BE 8 PERCENT AS OPPOSED TO THE 13 PERCENT SHOWN IN 304.02.

~~AT THE CONTRACTOR'S OPTION, CRUSHED CONCRETE OBTAINED FROM CONCRETE PAVEMENT ON THIS PROJECT OR PROJECTS CONSTRUCTED UNDER ODOT SPECIFICATIONS MAY BE USED FOR ITEM 304 AGGREGATE BASE. ALL CRUSHED CONCRETE PASSING THE NO. 4 SIEVE SHALL BE REPLACED BY MATERIAL OBTAINED FROM APPROVED SOURCES. THE RECYCLED CONCRETE PAVEMENT SHALL NOT CONTAIN MORE THAN 10% RECYCLED ASPHALT PAVEMENT. ALL OTHER REQUIREMENTS OF 304 AND 703.04 SHALL APPLY.~~ VOID

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE, GRADE AND REINSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF SAID COMPLIANCE.

LOCATION OF GUARDRAIL

THE LOCATION 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.

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 THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSWHERE 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"	236	3	239
30"	93	2	95
48"	2		2
60"			

THE ABOVE ESTIMATE IS APPROXIMATE AND THE STATE OF OHIO RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES WITHIN 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.

SEEDING

THE QUANTITIES FOR SEEDING ARE FOUND IN THE LANDSCAPING GENERAL SUMMARY ON SHEET 177.

ITEM 603, TYPE B AND CONDUIT, W/ COVER LESS THAN 17'
CORRUGATED STEEL OR ALUMINUM SPIRAL RIB PIPE CONFORMING TO SUPPLEMENTAL SPECIFICATION 946 OR 948 MAY BE USED.

REVISED 8-23-93

MAINTENANCE OF TRAFFIC

CALC BY DATE	PREBLE COUNTY	OHIO	11
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

MAINTENANCE OF TRAFFIC

THE MAINTENANCE OF TRAFFIC SHALL BE GOVERNED BY THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION FOR STREETS AND HIGHWAYS, HEREINAFTER CALLED THE MANUAL, AND SUPPLEMENTED BY PERTINENT ITEMS OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE FOLLOWING REQUIREMENTS :

THE CONTRACTOR SHALL ARRANGE HIS OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER.

VEHICLES AND EQUIPMENT SHALL ALWAYS MOVE WITH, AND NOT ACROSS OR AGAINST THE FLOW OF TRAFFIC. VEHICLES AND EQUIPMENT SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS, AND SHALL ENTER AND LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL TRAFFIC FLOW. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT OF WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER. CONSTRUCTION VEHICLES SHALL NOT BE PERMITTED TO PARK IN PARKING LOTS INTENDED FOR REST AREA USERS.

EQUIPMENT, VEHICLES, AND MATERIAL SHALL NOT BE STORED OR PARKED ON THE PROJECT WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELLED PAVEMENT, UNLESS BEHIND GUARDRAIL.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, MAINTAIN IN PROPER POSITION AND REMOVE ALL SIGNS, SIGN SUPPORTS, BARRICADES, DRUMS, AND ALL OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC. ALL TRAFFIC CONTROL DEVICES SHALL BE CLEAN, LEGIBLE, AND IN GOOD WORKING CONDITION. ALL SIGNS THAT ARE TO CONVEY THEIR MESSAGES DURING THE HOURS OF DARKNESS SHALL BE REFLECTORIZED OR, ILLUMINATED. ALL SIGNS SHALL BE POST MOUNTED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PLACEMENT OF ALL TRAFFIC CONTROL DEVICES SHALL START AND PROCEED IN THE DIRECTION OF THE FLOW OF TRAFFIC. REMOVAL OF TRAFFIC CONTROL DEVICES SHALL START AT THE END OF THE CONSTRUCTION AREA AND PROCEED TOWARD ONCOMING TRAFFIC. THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION OF ALL NECESSARY TRAFFIC CONTROL DEVICES BEFORE BEGINNING WORK AND THEIR IMMEDIATE REMOVAL AS SOON AS WORK IS SUSPENDED OR COMPLETED.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES FOR PLACING /REPLACING NECESSARY TRAFFIC CONTROL DEVICES TO MAINTAIN THE TRAVELLED PAVEMENT SAFETY.

DURING ALL HOURS WHEN TRAFFIC IS RESTRICTED TO LESS THAN THE NUMBER OF EXISTING LANES THE CONTRACTOR SHALL EMPLOY AT LEAST ONE FULL TIME QUALIFIED PERSON WITH A PROPERLY EQUIPPED VEHICLE TO PATROL THE RESTRICTED AREAS, TO MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, DRUMS, ETC. IN ORDER TO PROVIDE A SAFE FACILITY FOR THE TRAVELLING PUBLIC.

ONE LANE OF TRAFFIC SHALL BE OPEN AT ALL TIMES IN EACH DIRECTION, AND ALL RAMPS SHALL BE MAINTAINED AT ALL TIMES. THE REST AREA SHALL REMAIN OPEN AT ALL TIMES. THE MAXIMUM LENGTH OF TIME ANY LANE CLOSURE ON I-70 SHALL NOT EXCEED 30 CALENDAR DAYS FOR PHASE I AND 7 CALENDAR DAYS FOR PHASE III. IF THE CONTRACTOR FAILS TO COMPLETE THE WORK WITHIN THE TIME ALLOWED BY THE CONTRACT, LIQUIDATED DAMAGES SHALL BE ASSESED PER SECTION 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL.

THE COST OF PROVIDING, INSTALLING, MAINTAINING AND REMOVING ALL TRAFFIC CONTROL DEVICES REQUIRED TO MAINTAIN TRAFFIC DURING CONSTRUCTION INCLUDING SIGNS, SIGN SUPPORTS, DRUMS AND BARRICADES SHALL BE INCLUDED IN THE LUMP SUM PRICE PER ITEM 614, "MAINTAINING TRAFFIC".

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 616	WATER	25 M. GAL.
ITEM 616	CALCIUM CHLORIDE	2 TONS
ITEM 404	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	50 CU. YD.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS TO PROVIDE THIS METHOD OF TRAFFIC CONTROL SHALL BE INCIDENTAL TO THE LUMP SUM BID FOR 614 MAINTAINING TRAFFIC, EXCEPT FOR ITEM 614-REPLACEMENT DRUM, ITEM 614-REPLACEMENT SIGN, ITEM 614-LAW ENFORCEMENT OFFICER, WITH PATROL CAR AND ITEM 614-TEMPORARY PAVEMENT MARKINGS.

ITEM SPECIAL - REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE BID PRICE PER EACH FOR "ITEM SPECIAL-REPLACEMENT DRUM" AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM; AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGUNAL DRUM.

AN ESTIMATED QUANTITY OF 200 EACH HAS BEEN PROVIDED TN THE GENERAL SUMMARY.

ITEM SPECIAL - REPLACEMENT SIGN

FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERING BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED BUT GOOD CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE BID PRICE PER SQUARE FOOT FOR "ITEM SPECIAL - REPLACEMENT SIGN" AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED SIGNS, HARDWARE AND SUPPORTS; AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 100 SQ. FT. HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR

THE CONTRACTOR SHALL PROVIDE FOR THE SERVICE,OF A LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR THE EXCLUSIVE PURPOSE OF CONTROLLING TRAFFIC WHENEVER A LANE OR LANES ARE BEING CLOSED OR OPENED. THE LAW ENFORCEMENT OFFICER SHALL RECIEVE HIS INSTRUCTIONS FROM THE PROJECT ENGINEER. PAYMENT FOR THE ABOVE WILL BE MADE UNDER ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH WITH PATROL CAR. AN ESTIMATED QUANTITY OF 50 HOURS IS PROVIDED . INFORMATION REGARDING ARANGEMENTS FOR LAW ENFORCEMENT SERVICES MAY BE OBTAINED BY CONTACTING THE STATE HIGHWAY PATROL HEADQUARTERS TELEPHONE (513) 863-4606 OR (513) 424-5366.

COVERING OF SIGNS

WHERE THE PLANS CALL FOR A PERMANENT SIGN TO BE COVERED, THE CONTRACTOR SHALL DO SO IN SUCH A MANNER SO AS TO AVOID DAMAGING THE PERMANENT SIGN WHEN THE COVER IS REMOVED. THE COVER SHALL BE TOTALLY OPAQUE. THE USE OF ADHESIVE TAPE APPLIED DIRECTLY TO A SIGN FACE IS STRICTLY PROHIBITED.

TEMPORARY LANE LINES

AN ESTIMATED QUANTITY OF 0.5 MILES OF ITEM 614 TEMPORARY LANE LINE CLASS II HAS BEEN PROVIDED TO BE USED WHERE LONG AREAS OF PAVEMENT REPAIR HAVE OBLIVERATED THE EXISTING LANE LINE AND RESURFACING IS NOT IMMINENT. THIS QUANTITY SHALL BE USED AS DIRECTED BY THE ENGINEER.

GENERAL REQUIREMENTS

THE CONTRACTOR SHALL SUBMIT A WRITEN SCHEDULE OF OPERATIONS, EVERY MONTH, TO THE PROJECT ENGINEER FOR HIS APPROVAL. THE SCHEDULE SHALL BE SUBMITTED AT LEAST TWO (2) WEEKS PRIOR TO ANY TRAFFIC RESTRICTION OR CLOSURE OF ANY LANE OF THE INTERSTATE OR RAMP.

NO LANE RESTRICTIONS WILL BE PERMITTED DURING THE FOLLOWING PERIODS ; WHEN A HOLIDAY (MEMORIAL DAY, 4th of JULY, LABOR DAY, THANKSGIVING, CHRISTMAS, NEW YEARS AND THE INDIANAPOLIS 500 CAR RACE' FIRST DAY OF TIME TRIALS AND RACE DAY) IS ON :

A) MONDAY OR TUESDAY : FROM 12 NOON ON FRIDAY BEFORE UNTIL 12 NOON THE FOLLOWING DAY.

B) WEDNESDAY : FROM 12 NOON ON THE DAY BEFORE UNTIL 12 NOON ON THE DAY FOLLOWING.

C) THURSDAY AND FRIDAY : FROM 12 NOON ON THE DAY BEFORE UNTIL 12 NOON ON THE MONDAY FOLLOWING.

D) SATURDAY AND SUNDAY : FROM 12 NOON ON FRIDAY UNTIL 12 NOON ON MONDAY.

THERE SHALL NOT BE ANY ANY EXTENSIONS FOR HOLIDAY REQUIREMENTS DUE TO WEATHER OR MATERIAL DELAYS WHATSOEVER.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDINANCE WITH 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

GENERAL

IT IS THE INTENT TO PERFORM THE REQUIRED WORK WITH THE LEAST INCONVENIENCE TO, AND THE MAXIMUM SAFETY OF, THE CONTRACTOR AND THE TRAVELLING PUBLIC. ANY VARIANCES FROM THESE MAINTENANCE OF TRAFFIC NOTES AND PLANS MUST BE APPROVED IN ADVANCE IN WRITING BY THE DIRECTOR, EXCEPT AS MODIFIED BELOW OR AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS, THE REQUIREMENTS FOR MAINTAINING TRAFFIC AS INDICATED IN THE OMUTCD FOR STREETS AND HIGHWAYS CURRENT EDITION, AND PERTINENT ITEMS OF THE PROPOSAL AND SPECIFICATIONS SHALL APPLY.

THE USE OF SHOULDERS TO MAINTAIN TRAFFIC IS PROHIBITED, EXCEPT AS NOTED IN THE PLANS. SHOULD ANY EXISTING OR NEW SHOULDER AREAS BECOME DAMAGED OR DESTROYED DURING CONSTRUCTION DUE TO THE CONTRACTORS NEGLIGENCE OR FAILURE TO PROVIDE ADEQUATE SIGNS, DRUMS OR OTHER TRAFFIC CONTROL DEVICES, THE RESTORATION OF THE SHOULDER SHALL BE AT THE CONTRACTOR'S EXPENSE.

WHENEVER ANY LANE OF TRAFFIC IS CLOSED, THE MOTORIST SHALL BE WARNED AND DIVERTED BY THE USE OF FLASHING ARROW BOARDS, TYPE A, AS PER STANDARD DRAWING TC-35.10.

THE STANDARD DEVICE FOR CLOSING ANY LANE TO TRAFFIC SHALL BE PROPERLY WEIGHTED AND REFLECTORIZED DRUMS. DRUMS SHALL BE SPACED AS SHOWN ON THE CLOSURE DETAILS (SHEETS 13-27.)

IT IS THE INTENT OF THE FOLLOWING SEQUENCE OF OPERATIONS TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN A MANNER WHICH IS SAFE FOR THE TRAVELLING PUBLIC; THEREFORE, THE PHASES SHALL BE STRICTLY ADHERED TO.

TEMPORARY OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPENED TO TRAFFIC.

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", CURRENT EDITION, THESE PLANS, AND PERTINENT ITEMS OF THE SPECIFICATIONS AND PROPOSAL SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE LIMITS.

PERMANENT SIGNING AND PAVEMENT MARKING

PRIOR TO OPENING ANY COMPLETED RAMP OR MAINLINE PAVEMENT TO NORMAL TRAFFIC FLOW, THE CONTRACTOR SHALL HAVE COMPLETED THE INSTALLATION OF ALL PERMANENT SIGNING AND PAVEMENT MARKING PERTINENT TO THE SAFE OPERATION OF THE TRAFFIC. IF PERMANENT PAVEMENT MARKINGS CAN NOT BE PLACED AT THIS TIME, TEMPORARY CLASS I OR II PAVEMENT MARKINGS SHALL BE PLACED.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER :

ITEM 614	TEMPORARY EDGE LINE, CLASS I, 740.05 TYPE C	2.3 MILES
ITEM 614	TEMPORARY LANE LINE, CLASS I	0.1 MILES
ITEM 614	TEMPORARY TRANSVERSE LINE , CLASS I	548 LIN. FT.
ITEM 614	TEMPORARY CHANNELIZING LINE, CLASS I	1410 LIN. FT.

EXISTING PAVEMENT MARKINGS

IF DURING THE DURATION OF THE CONTRACT, THE CONTRACTOR HAS TO ALTER THE PAVEMENT MARKINGS OUTSIDE THE PROJECT LIMITS, TO COMPLETE THE WORK WITHIN THE LIMITS THE CONTRACTOR SHALL BE REQUIRED TO REPLACE ALL SUCH MARKINGS WITH THE SAME MATERIAL. IF THE STATE IS CALLED TO SUSPEND PAINTING OPERATIONS DUE TO THE EXISTING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REPAINT THE EXISTING PAVEMENT MARKINGS WHICH THE STATE WAS UNABLE TO PAINT. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 614-MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC

SEQUENCE OF OPERATIONS

INSTALL THE NECESSARY TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS PER STANDARD DRAWING MT-99.10 AND MT-99.20 TO MAINTAIN TRAFFIC IN A 12 FOOT WIDE TRAVEL LANE ON THE LEFT HAND SIDE OF DIRECTIONAL PAVEMENT ON I-70.

PHASE I

THE CONTRACTOR SHALL BUILD THE ENTRANCE AND EXIT TERMINALS USING A ONE LANE CLOSURE AS DETAILED ON SHEETS 13-18 OF THE PLANS. UPON COMPLETION OF THIS WORK THE CONTRACTOR SHALL PLACE BARRELS AT THE NEW EXIT TERMINAL TO PREVENT TRAFFIC FROM EXITING AT THIS POINT. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TEMPORARY PAVEMENT MARKINGS AND EXISTING TWO-WAY FOUR LANE TRAFFIC SHALL RESUME ON I-70. DETAILS FOR THIS PHASE ARE SHOWN ON SHEETS 13-18 OF THE PLANS AND ON STANDARD DRAWING MT-98.13 & MT-98.15.

PHASE II

THE CONTRACTOR SHALL CONSTRUCT THE TRUCK PARKING AREA FROM STATION 13+11.77 LINE "B" TO STATION 35+81.13 LINE "D" EASTBOUND, AND FROM STATION 7+18.41 LINE "T" TO STATION 23+81.89 LINE "S" WESTBOUND. THE CONTRACTOR SHALL CONSTRUCT THE NEW SIDEWALK CONNECTING THE NEW PARKING FACILITIES TO THE EXISTING MOTORIST SERVICE BUILDING. DETAILS FOR THIS PHASE ARE SHOWN ON SHEET 19 OF THE PLANS. THE PROPOSED SIGNS FOR THE REST AREA RAMPS SHALL BE IN PLACE AND THE EXISTING RAMP SIGNING SHALL BE COVERED.

PHASE III

THE CONTRACTOR SHALL PLACE TEMPORARY MARKINGS IN THE TRUCK PARKING AREA. THE CONTRACTOR SHALL CLOSE THE CAR PARKING AREA AND OPEN THE TRUCK PARKING AREA. THE CONTRACTOR SHALL RE-CONSTRUCT THE CAR PARKING AREA AND RAMPS. THE CONTRACTOR SHALL REMOVE THE OLD RAMPS AND RE-BUILD THE BERM ON I-70. DETAILS FOR THIS PHASE ARE SHOWN ON SHEETS 20-27 OF THE PLANS AND ON STANDARD DRAWING MT-98.16.

PHASE IV

THE CONTRACTOR SHALL REMOVE ANY TEMPORARY PAVEMENTS AND CONFLICTING TEMPORARY PAVEMENT MARKINGS. THE CONTRACTOR SHALL OPEN THE CAR PARKING AREA.

PHASE I AND PHASE II MAY BE PERFORMED CONCURRENTLY. THE PRECEDING SEQUENCE OF OPERATIONS MAY BE PREFORMED ON EACH SIDE INDIVIDUALLY OR ON BOTH SIDES SIMULTANEOUSLY, IF THE OPERATIONS DON'T INTERFERE WITH EACH OTHER.

PEDESTRIAN ACCESS

PEDESTRIAN ACCESS TO THE MOTORIST SERVICE BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. TEMPORARY FENCES, SIMILAR TO THOSE FOR TREE PROTECTION, SHALL BE PLACED AS DIAGRAMMED ON THIS SHEET. COST IS INCLUDED IN ITEM 614 - MAINTAINING TRAFFIC, AND SHALL INCLUDE BOTH ERECTION AND REMOVAL OF THE TEMPORARY FENCE.

TEMPORARY PAVEMENT, AS PER PLAN

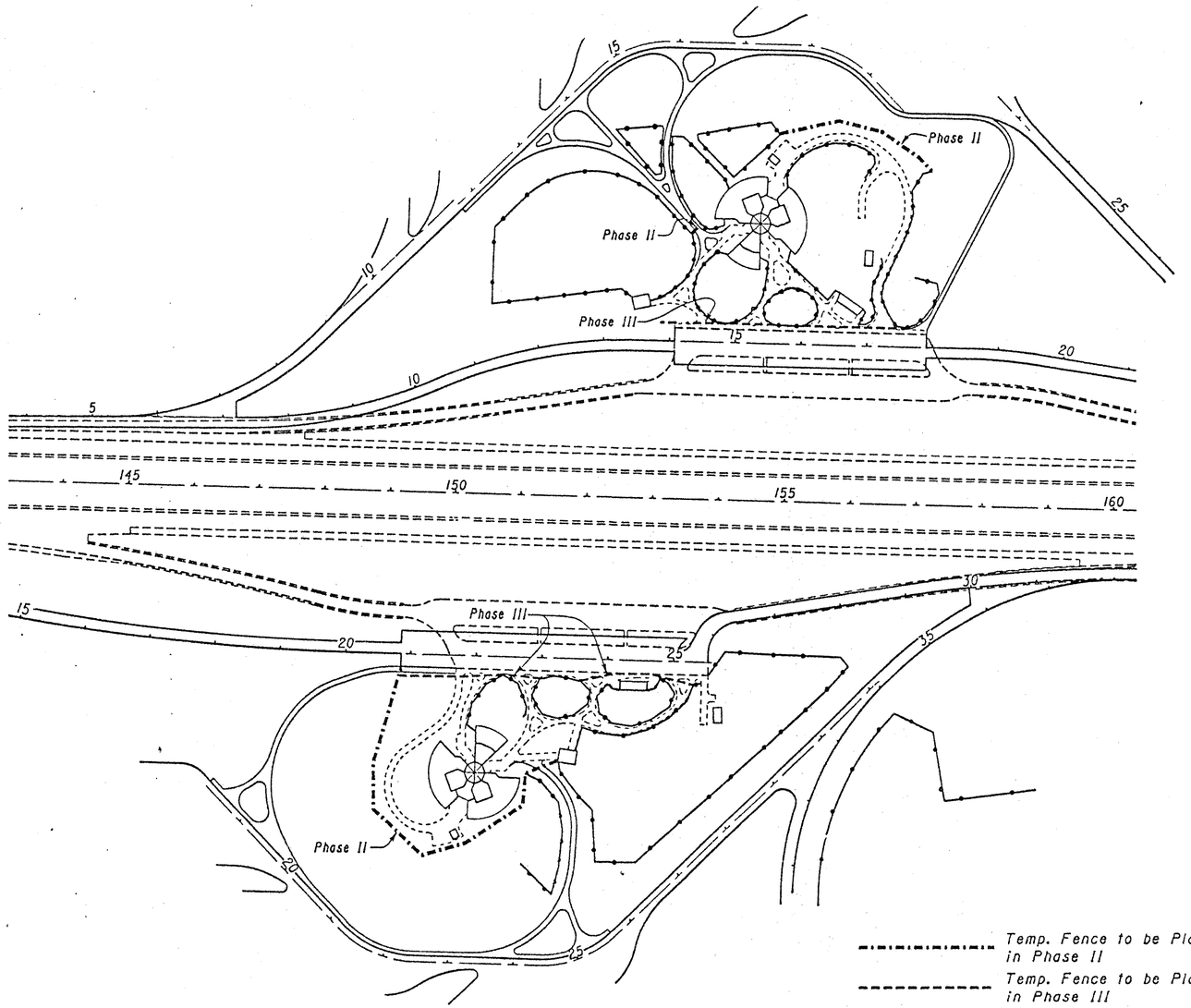
THE TEMPORARY PAVEMENT BUILDUP SHALL BE 6"-301 BITUMINOUS AGGREGATE BASE AND 4"-304 AGGREGATE BASE. PAYMENT SHALL INCLUDE ANY ADDITIONAL COST OF ITEM 203 EMBANKMENT OR EXCAVATION TO PLACE THE ITEM 301 OR ITEM 304.

ADVANCE WARNING SIGNS

THERE SHALL BE AVAILABLE ON THE PROJECT AT ALL TIMES SIX (6) SPECIAL BLACK ON ORANGE "WATCH FOR STOPPED TRAFFIC" SIGNS (48" X 48"). THERE SHALL BE TWO FOR EACH DIRECTION OF TRAFFIC AND TWO SPARES. THESE SIGNS SHALL BE MOUNTED ON PORTABLE BARRICADES, AND ARE TO BE USED IN THE EVENT THAT TRAFFIC BACKUPS OCCUR. THEY WILL BE LOCATED APPROXIMATELY ¼ MILE IN ADVANCE OF THE BACKUP AND WILL BE MOVED BACK AS THE BACKUP INCREASES.

TYPE A WARNING LIGHT

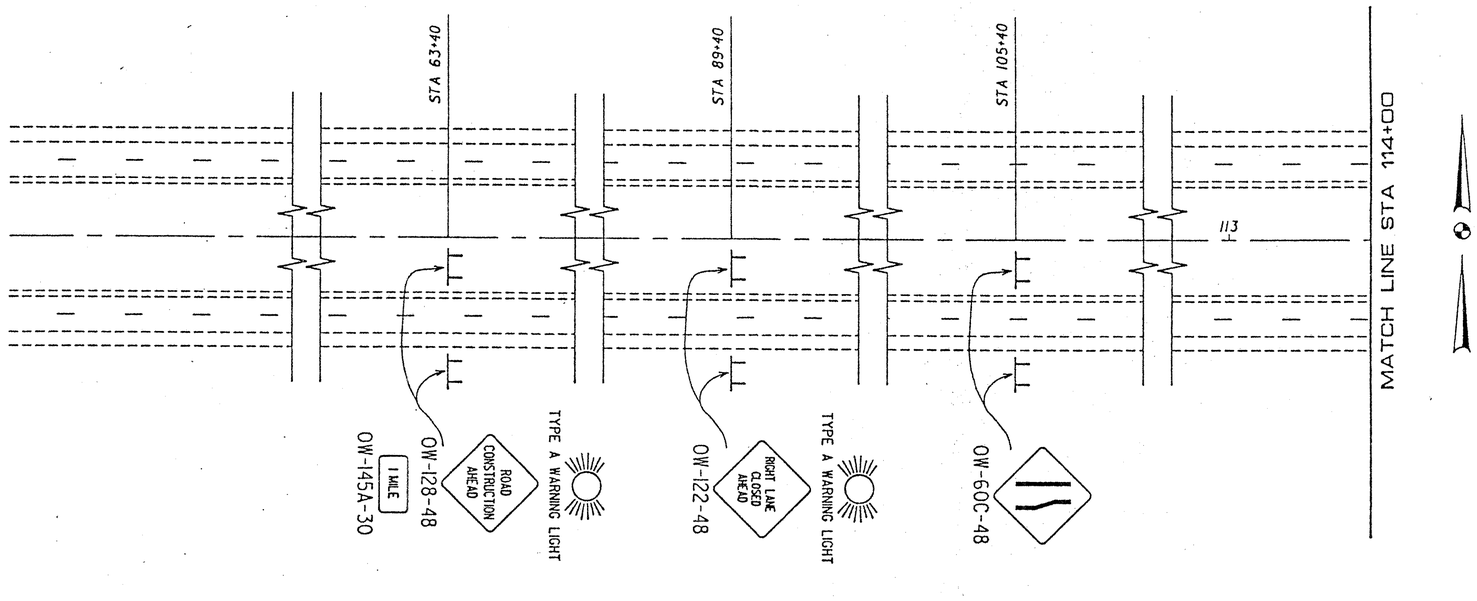
OW-166-48

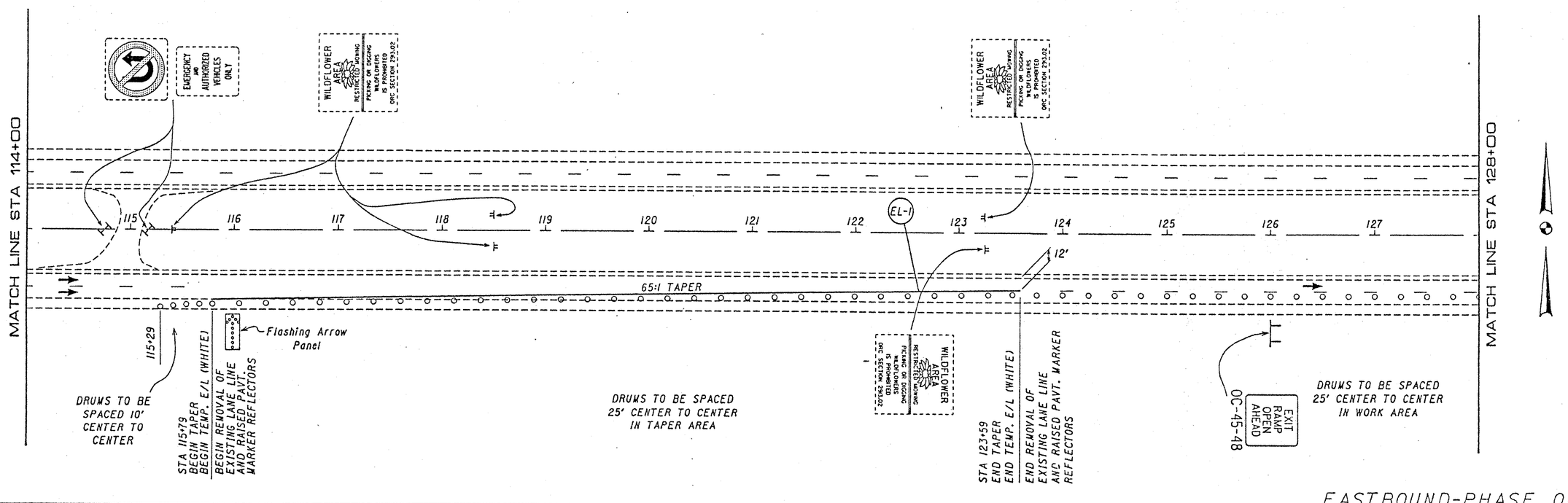


EASTBOUND-PHASE ONE ESTIMATED QUANTITIES

REF. NO.	ITEM	TOTAL	UNIT	DESCRIPTION
EL-1	614	0.33	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, WHITE
EL-2	614	0.25	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, YELLOW
TP-1	615	684	S.Y.	TEMPORARY PAVEMENT, AS PER PLAN *
				TOTALS CARRIED TO GENERAL SUMMARY

* AREA PLANIMETERED





CALC BY DATE
CHKD BY DATE

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

14
194

MATCH LINE STA 128+00

STA 128+60

STA 128+49.01 66' RT ℄ I-70
STA 0+00 LINE "A"

STA 129+49.01 78' RT ℄ I-70
STA 1+00.72 LINE "A"

WILDFLOWER AREA
RESTRICTED MOWING
PICKING OR DIGGING WILDFLOWERS PROHIBITED
ORC SECTION 2931.02

A
A

STA 131+99.91 78' RT ℄ I-70
- PC 3+51.62 LINE "A"

DRUMS TO BE SPACED
25' CENTER TO CENTER
IN WORK AREA

℄ LINE "A"
6' 12' 12' 2' WORK AREA 12' 10'

SECTION A-A

REST AREA

Remove and Re-erect
per Traffic Control
See Sheet 170.

EXIT RAMP OPEN
OC-45A-48

STA 136+54
BEGIN TEMP E/L (WHITE)
BEGIN REMOVAL OF
EX. LANE LINES AND
RAISED PAVEMENT MARKER
REFLECTORS

EL-1

STA 137+04
END TEMP.
EDGE LINE (WHITE)

DRUMS 10'
CENTER TO CENTER

PT 9+05.35 LINE "A"
PI STA 9+05.35 LINE "B"

STA 140+54
BEGIN TEMP. E/L (WHITE & YELLOW)

END REMOVAL OF EX. LANE LINE
& RAISED PAVEMENT MARKER REFLECTORS

EL-1
EL-2

END TEMP EDGE LINE
STA 141+64

STA 13+14
LINE "A"

LINE "B"

STA 11+53.35 12' RT ℄ LINE "A"
- PC STA 11+55.64 LINE "B"

MATCH LINE STA 142+00

AREA TO BE CONSTRUCTED
UNDER PHASE I

EXISTING PAVEMENT
TO BE REMOVED

MATCH LINE STA 142+00

STA 142+50
END TEMP E/L (WHITE)

EL-1

OC-96R-48
EXIT

REST AREA

PC 15+23.43 AH -
STA 15+23.19 BK

DRUMS 10'
CENTER TO CENTER

LINE "B"

DRUMS TO BE SPACED
25' CENTER TO CENTER

PT 20+10.38

CAR PARKING AREA
TO BE BUILT
IN PHASE III

PT 26+40.77

PC 25+70.76
PI 25+57.09 AH -
STA 25+52.09 BK

90°

OW-128-48

ROAD CONSTRUCTION AHEAD

TYPE A WARNING LIGHT

MATCH LINE STA 158+00

EASTBOUND-PHASE ONE

CALC BY DATE	PREBLE COUNTY	OHIO	15
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

MATCH LINE STA 142+00

DRUMS TO BE SPACED 25' CENTER TO CENTER

END TAPER STA 30+00

BEGIN TAPER
BEGIN TEMP. E/L (YELLOW & WHITE)
STA 28+40

PC 28+92.11

35' LINE "D"

W-138-36

OW-46-48

YIELD AHEAD

TYPE A WARNING LIGHT

W-49R-48

BEGIN TEMP. PVT.
STA. 36+00

TYPE A WARNING LIGHT

PT 38+10.33 LINE "D"
PT 32+28.62 LINE "A"

EL-1

EL-2

BEGIN TAPER
TEMPORARY PAVEMENT
STA. 33+50

LINE "A"

TP-1

DRUMS TO BE SPACED
25' CENTER TO CENTER
IN TAPER AREA

R-2-60

STA 163+48
BEGIN REMOVAL OF EX. LANE LINES & RAISED PAVT. MARKER REFLECTORS

48:1 TAPER

END TEMP. PAVEMENT
STA 165+75.69 91' RT ℄ I-70
- STA 37+90.62 LINE "A"

P1 167+21.59

STA 169+47
END 48:1 TAPER
END TEMP. E/L. END
REMOVAL OF EX. LANE LINES & RAISED PAVT. MARKER REFLECTORS

MATCH LINE STA 170+00

SECTION B-B

CENTER E.B. I-70 — ℄ LINE "A"

6'	12'	5'-6" GORE	12' TEMP. LANE	12'-6"	2'	16'	WORK AREA: 6' BERM	9'-4" Temp. Pvt.

AREA TO BE CONSTRUCTED UNDER PHASE I

TEMPORARY PAVEMENT, AS PER PLAN

SECTION C-C

CENTER E.B. I-70 — ℄ LINE "A"

6'	12'	6'-10.5"	5'-6"	2'	WORK AREA: 24'-5"	10' BERM

MATCH LINE STA 170+00

REST AREA

STA 177+04.14 BK -
STA 177+05.14 AH

STA. 183+50

DRUMS TO BE SPACED
25' CENTER TO CENTER
IN WORK AREA

STA 177+56.21 66' RT ℄ I-70
STA 49+70.66 LINE "A"

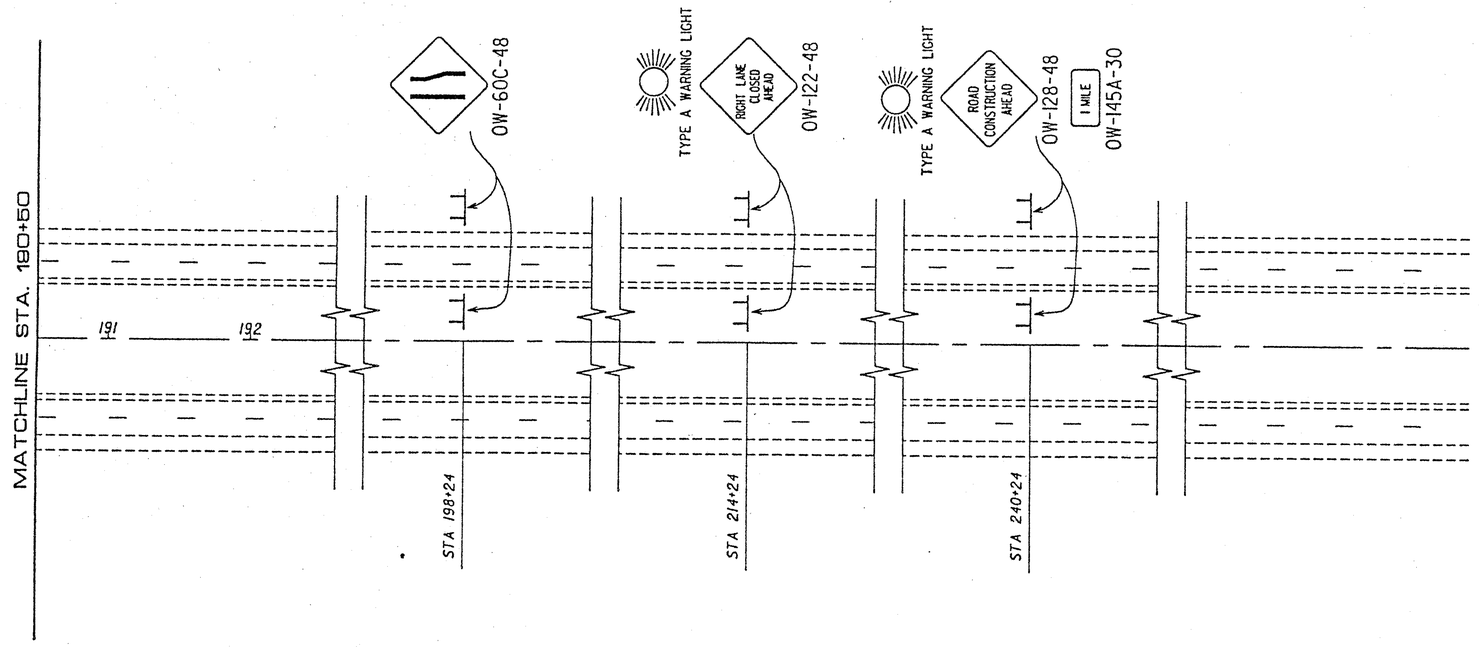
OC-8-69

END CONSTRUCTION

EASTBOUND-PHASE ONE

MAINTENANCE OF TRAFFIC

CALC BY DATE	PREBLE COUNTY	OHIO	16
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

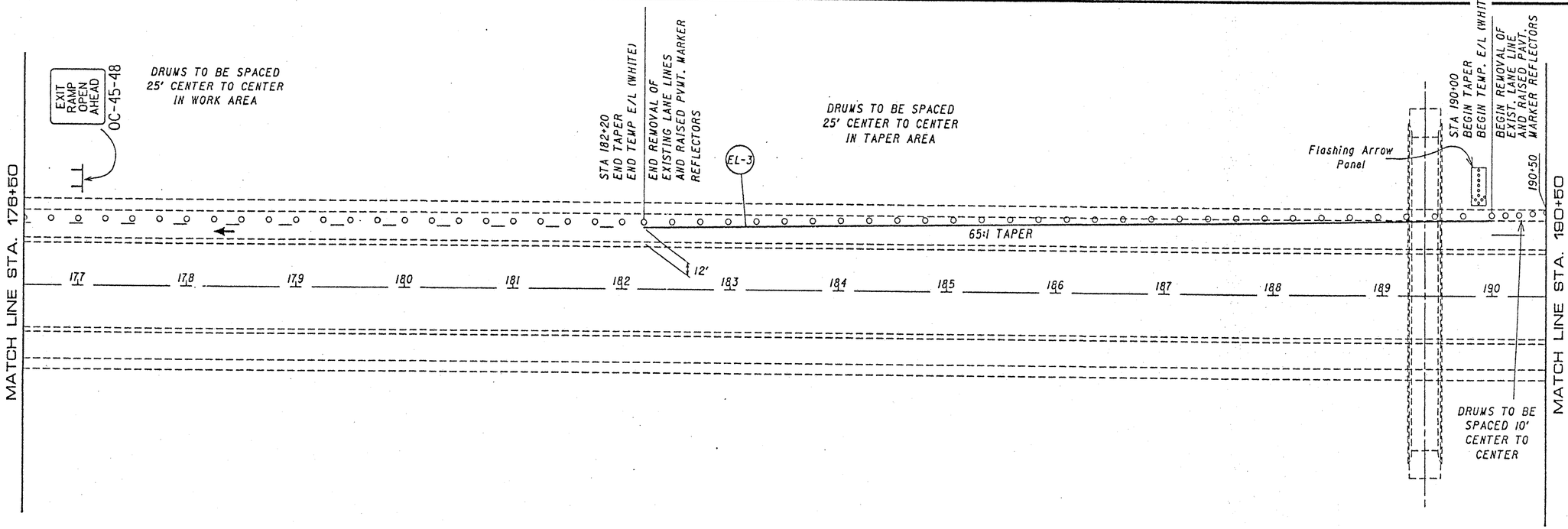


WESTBOUND-PHASE ONE ESTIMATED QUANTITIES

REF. NO.	ITEM	TOTAL	UNIT	DESCRIPTION
EL-3	614	0.28	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, WHITE
EL-4	614	0.15	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, YELLOW
TP-2	615	288	S.Y.	TEMPORARY PAVEMENT, CLASS B, AS PER PLAN *

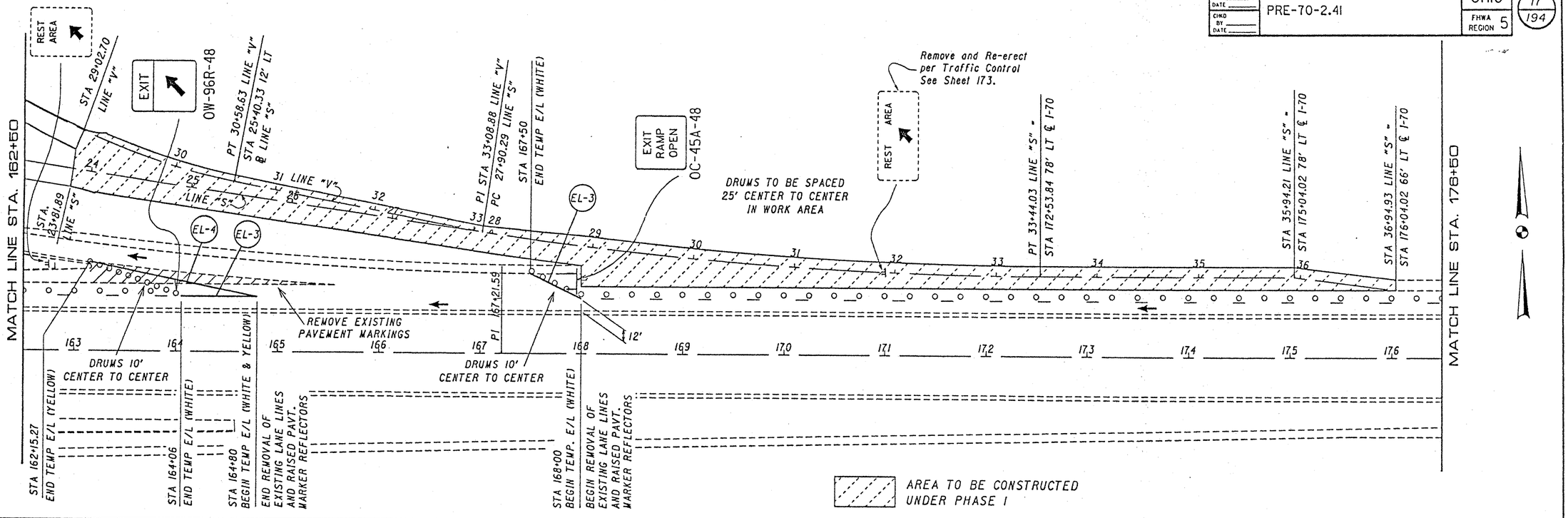
TOTALS CARRIED TO GENERAL SUMMARY

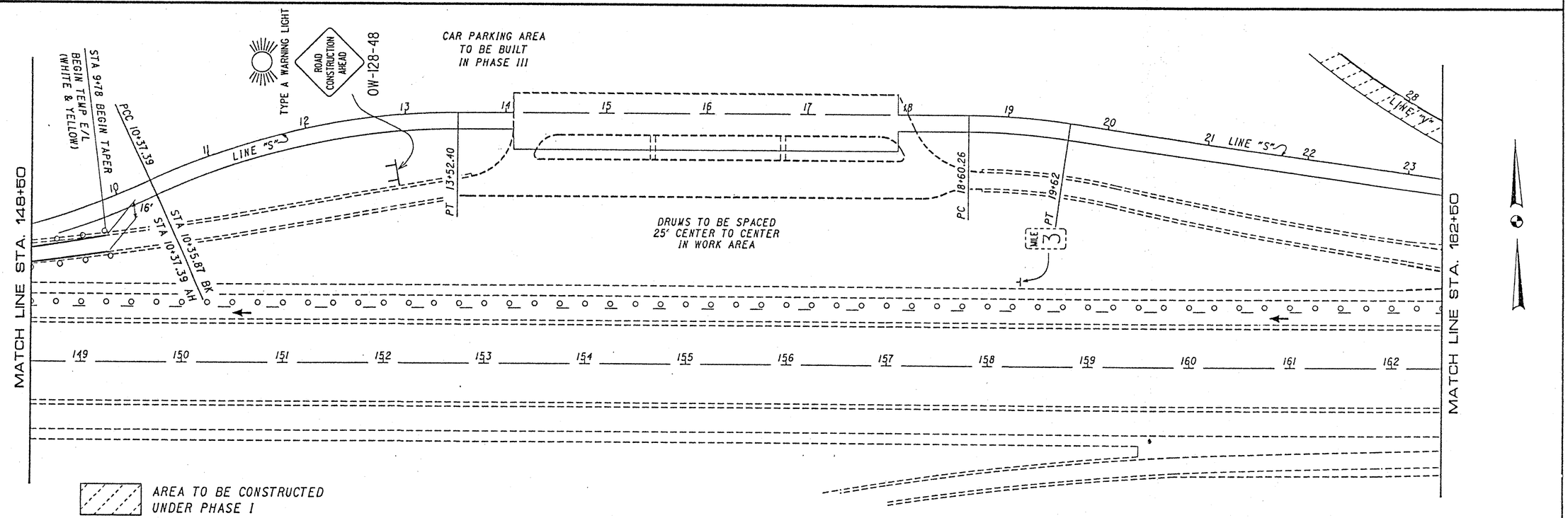
* AREA PLANIMETERED



WESTBOUND-PHASE ONE

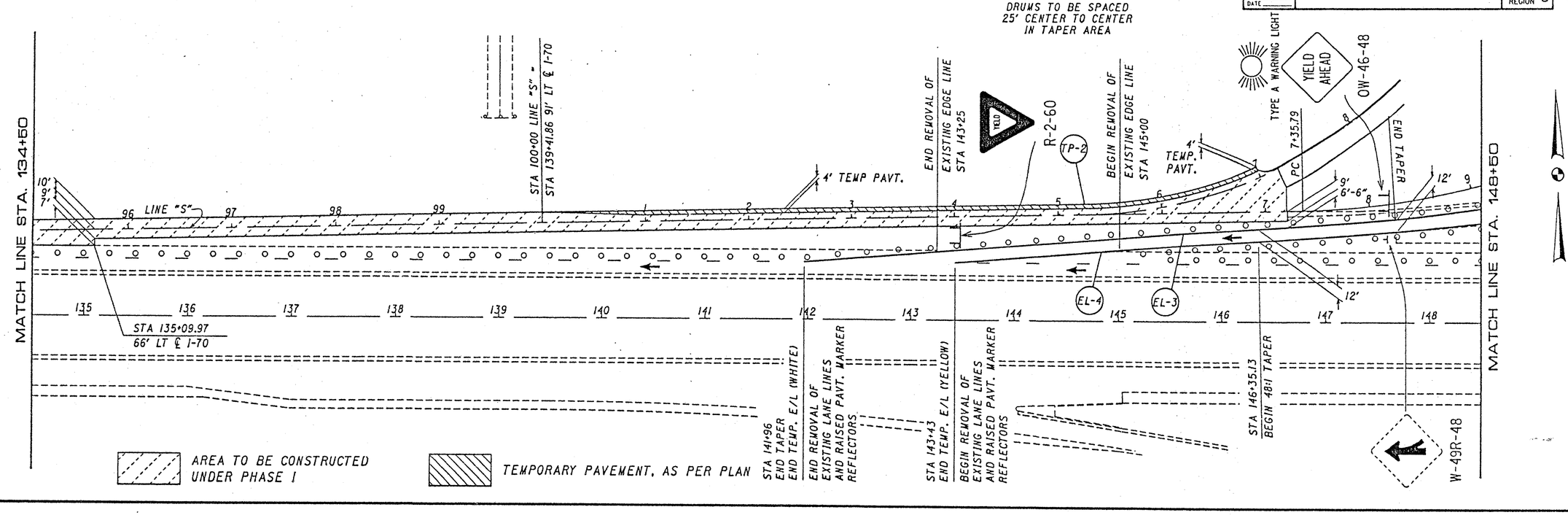
CALC BY DATE	PREBLE COUNTY	OHIO	17
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

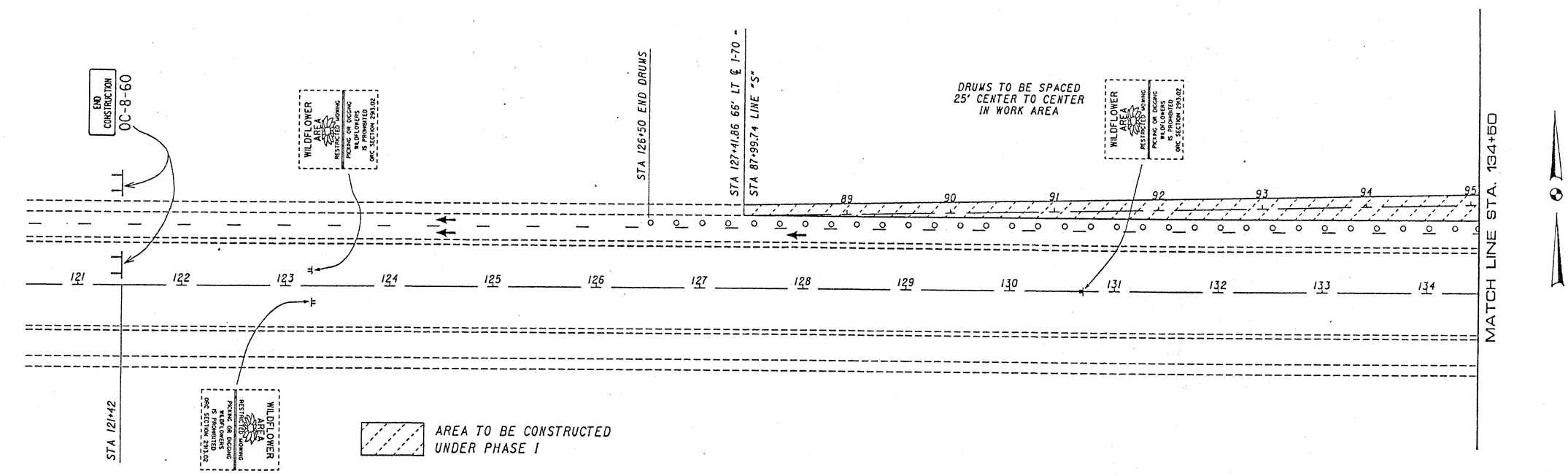




WESTBOUND-PHASE ONE

CALC BY DATE	PREBLE COUNTY	OHIO	18
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194





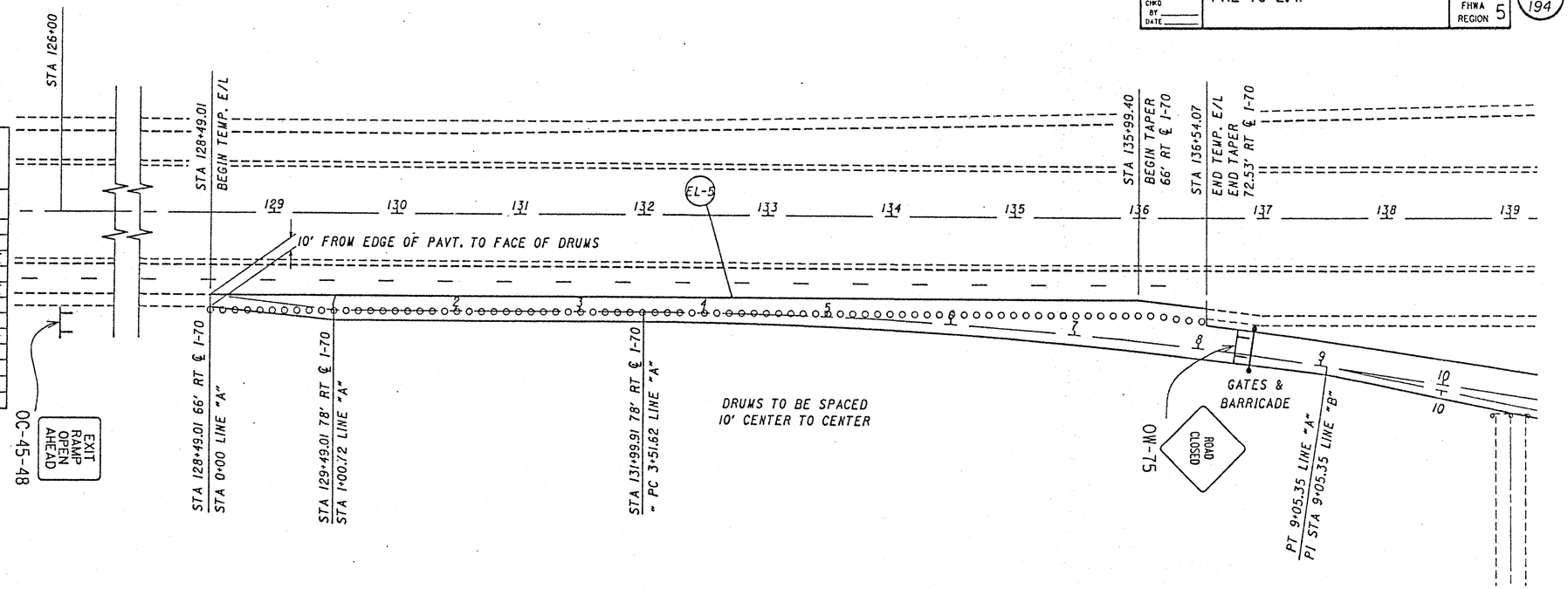
WESTBOUND-PHASE ONE

CALC BY DATE	PREBLE COUNTY	OHIO	19
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

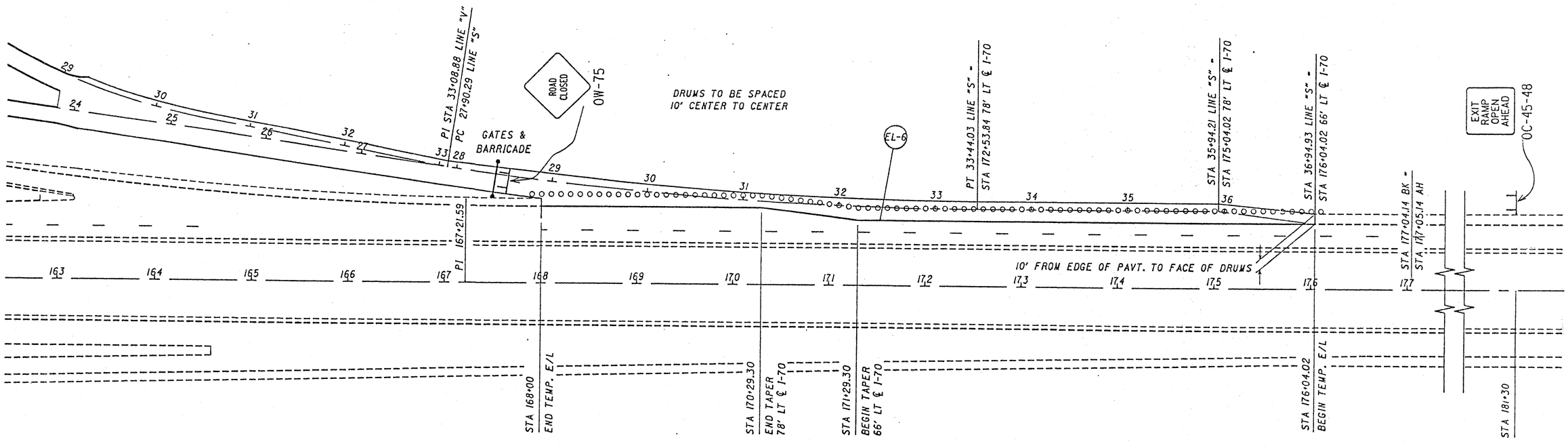
PHASE TWO
ESTIMATED QUANTITIES

REF. NO.	ITEM	TOTAL	UNIT	DESCRIPTION
EL-5	614	0.15	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, WHITE
EL-6	614	0.15	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, WHITE

* AREA PLANIMETERED



EASTBOUND-PHASE TWO

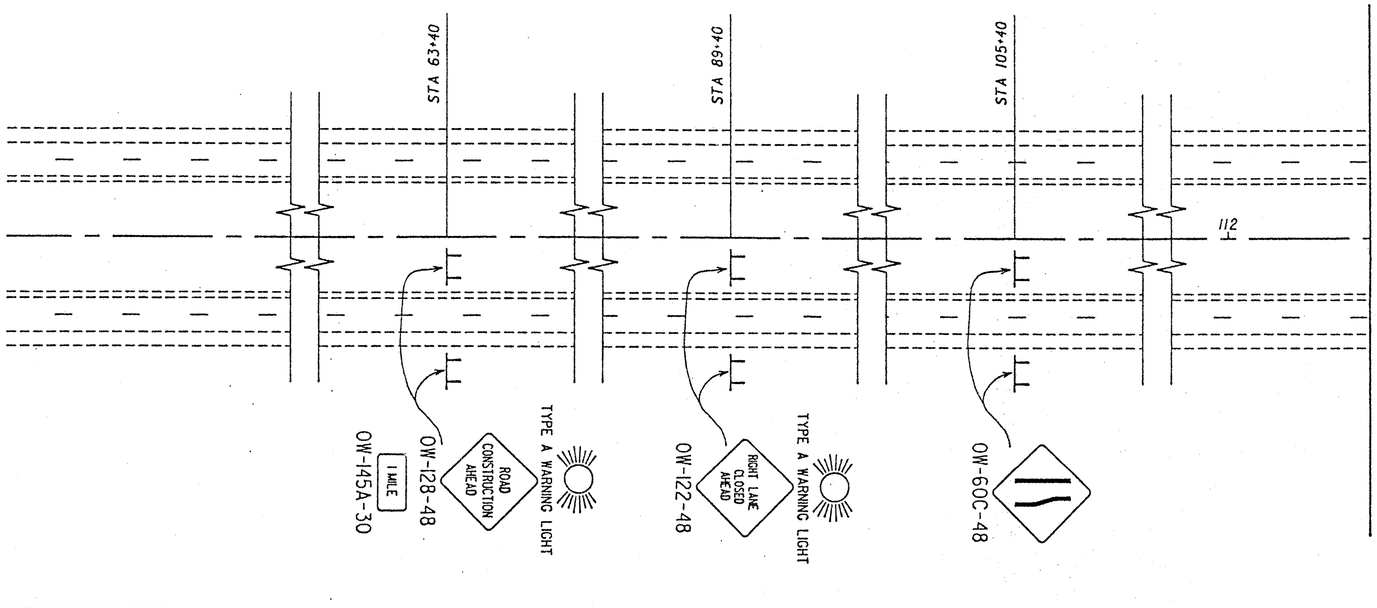


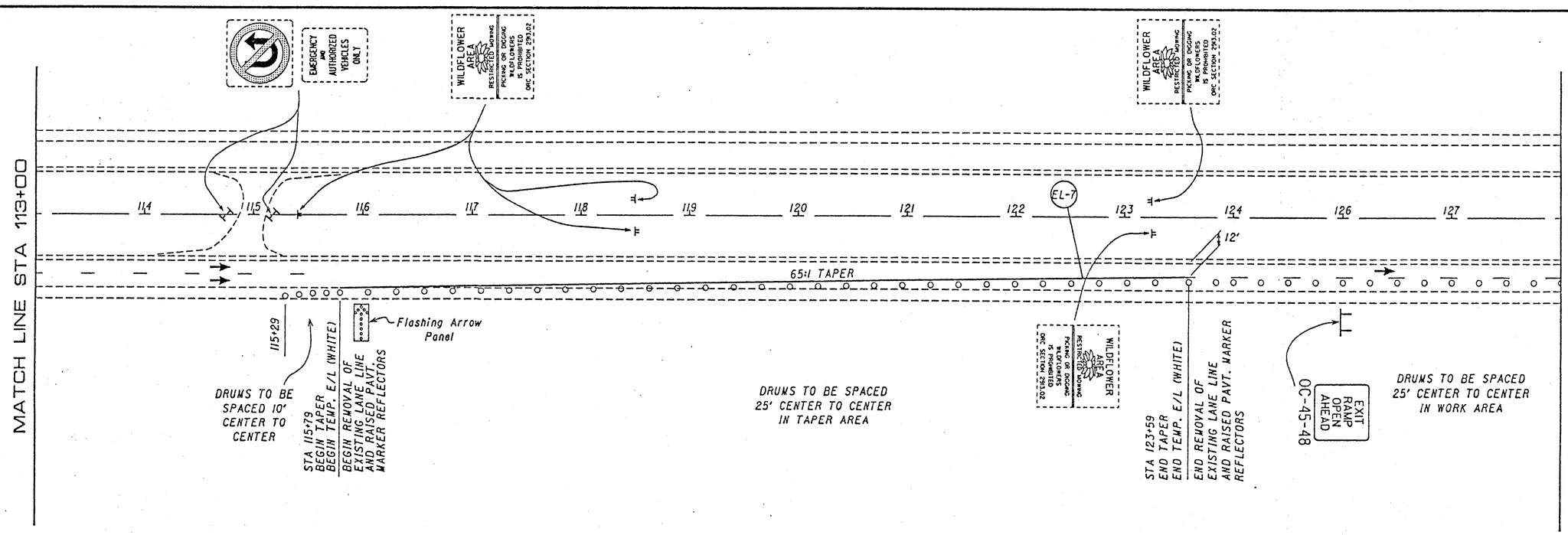
WESTBOUND-PHASE TWO

EASTBOUND-PHASE THREE ESTIMATED QUANTITIES

REF. NO.	ITEM	TOTAL	UNIT	DESCRIPTION
EL-7	614	0.77	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, WHITE
EL-8	614	0.51	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, YELLOW
PM-1	614	3032	L.F.	TEMPORARY PARKING LOT STALL MARKINGS
				CLASS I, 740.05 TYPE C
PM-2	614	1589	L.F.	TEMPORARY PARKING LOT STALL MARKINGS
				CLASS I, 740.05 TYPE C

TOTALS CARRIED TO GENERAL SUMMARY





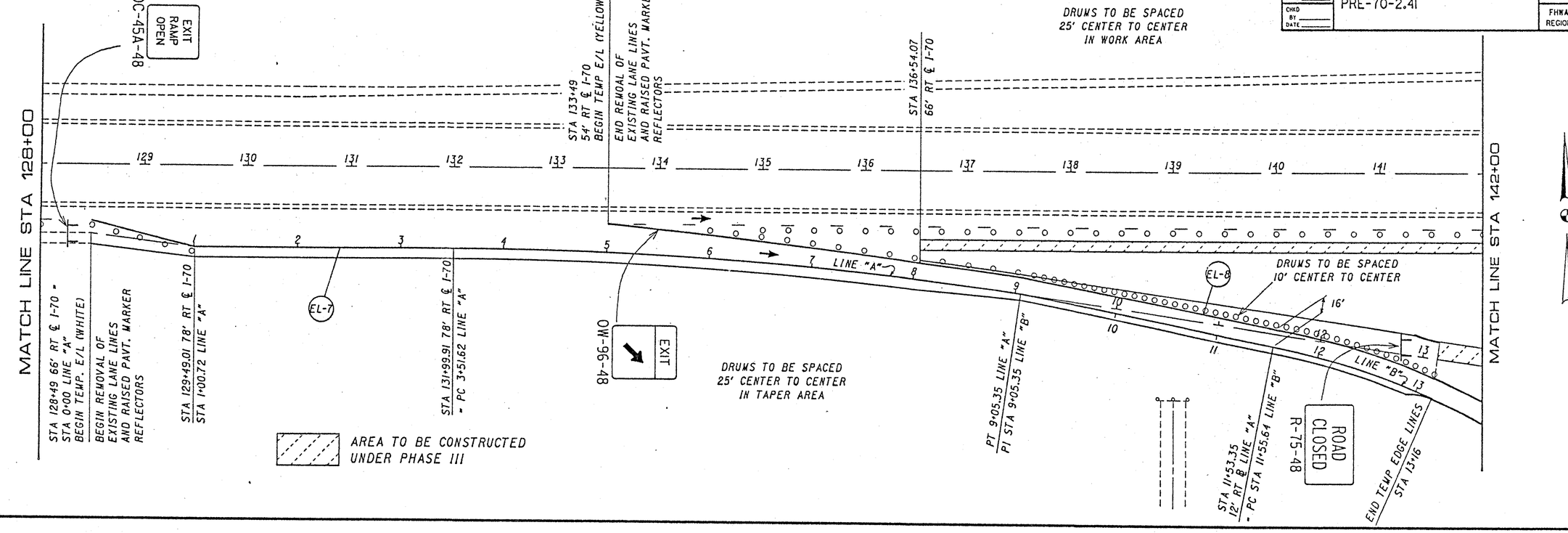
EASTBOUND-PHASE THREE

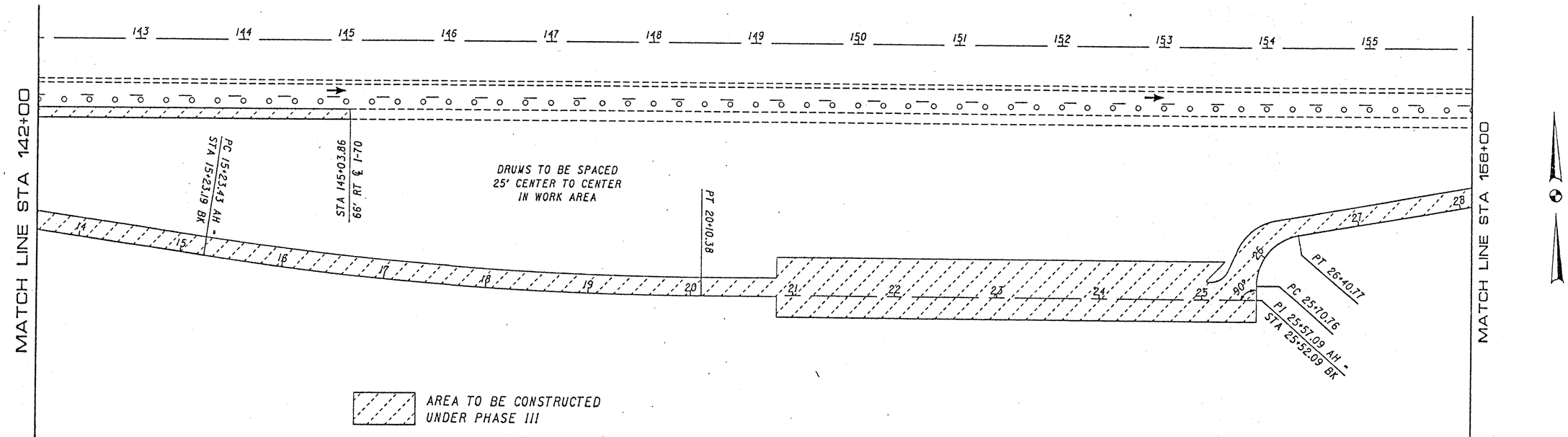
CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

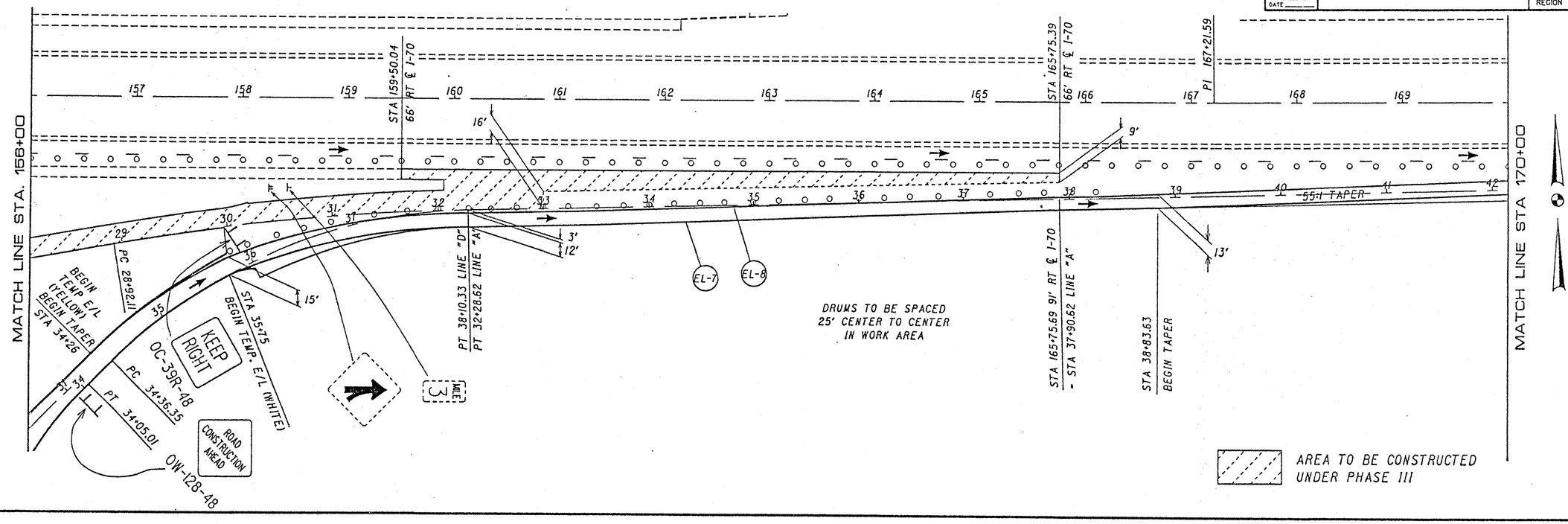
21
194

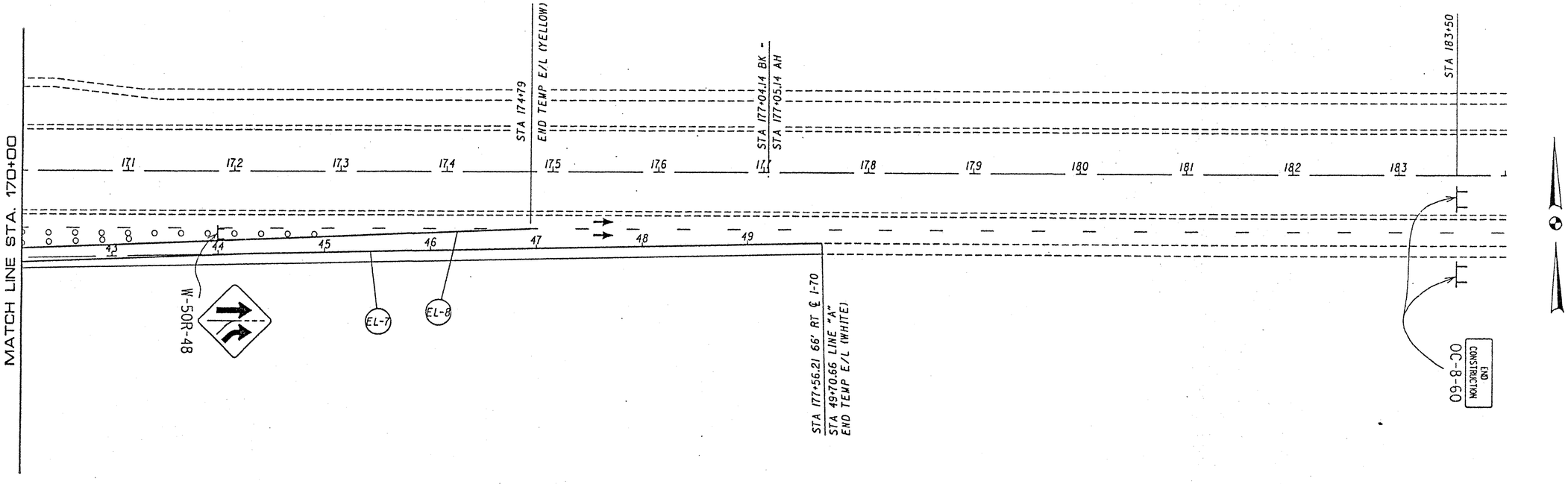




EASTBOUND-PHASE THREE

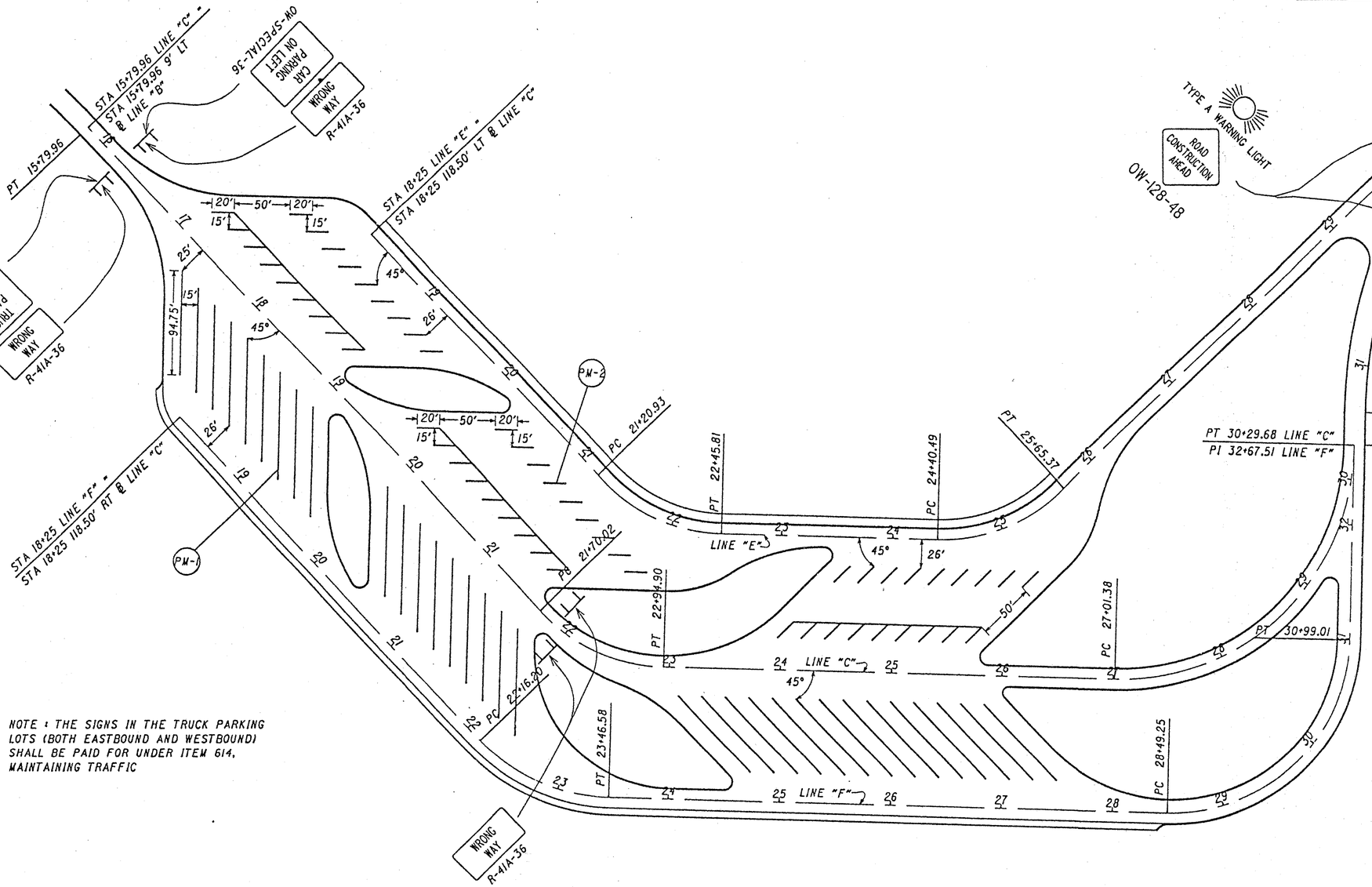
CALC BY DATE	PREBLE COUNTY	OHIO
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5





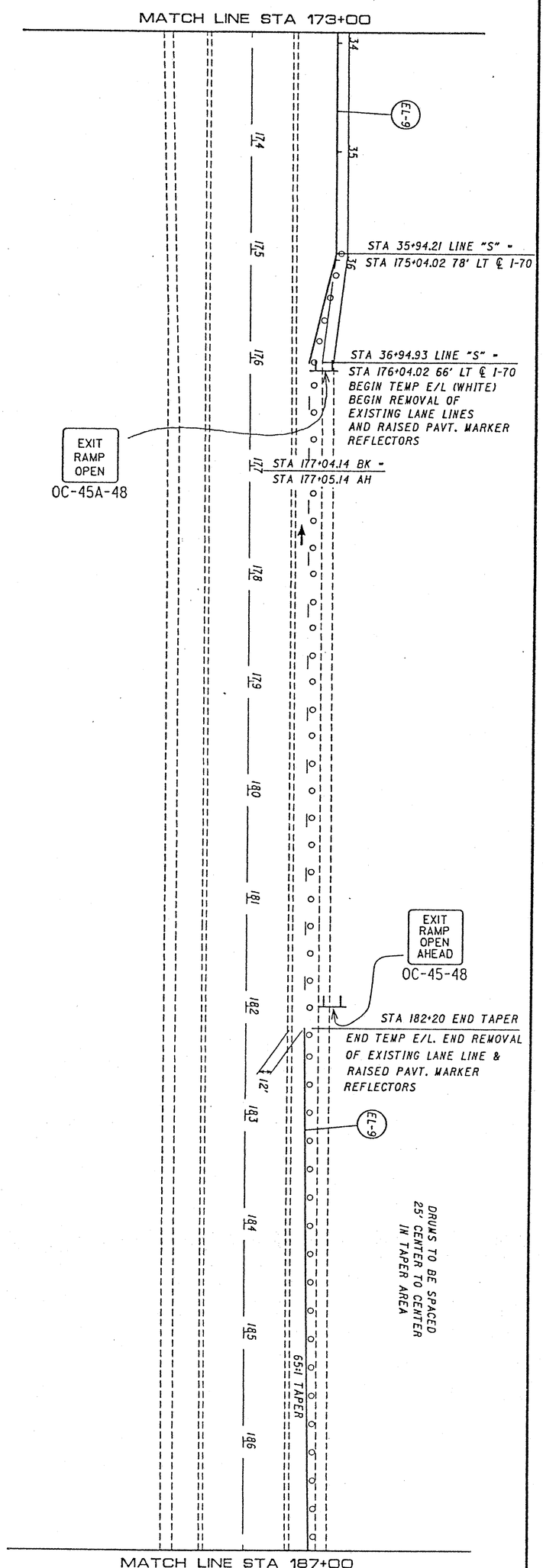
EASTBOUND-PHASE THREE

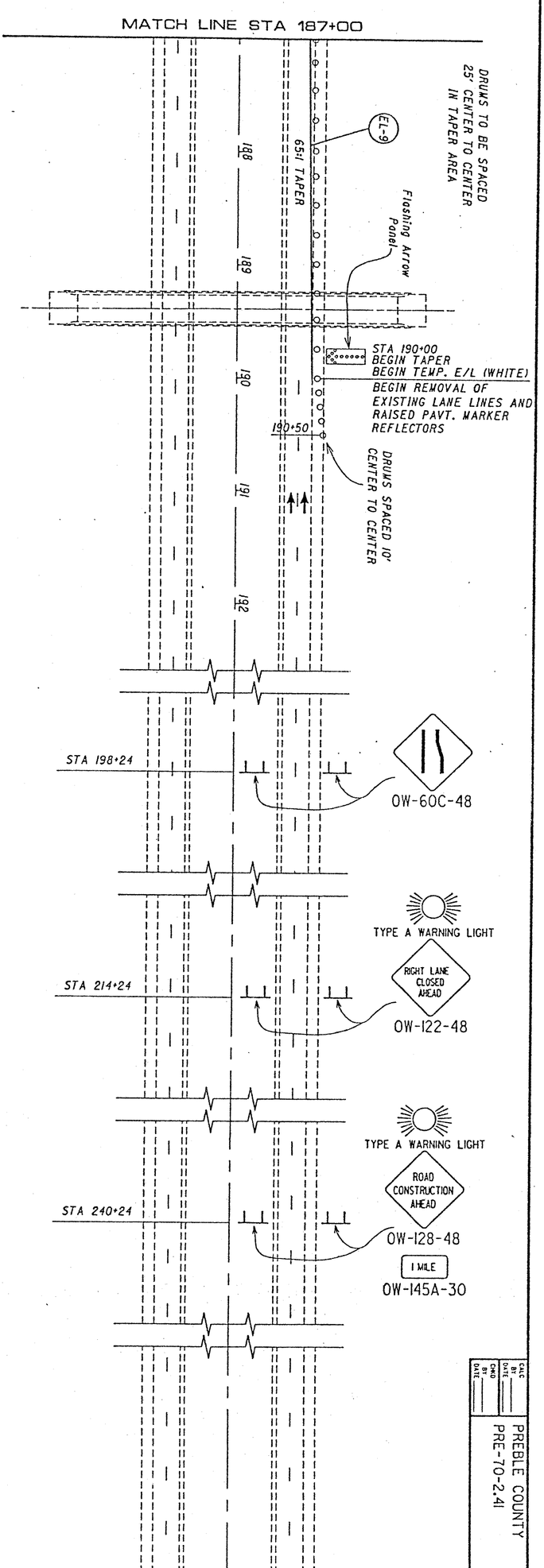
CALC BY DATE	PREBLE COUNTY	OHIO	23
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



NOTE : THE SIGNS IN THE TRUCK PARKING LOTS (BOTH EASTBOUND AND WESTBOUND) SHALL BE PAID FOR UNDER ITEM 614, MAINTAINING TRAFFIC

EASTBOUND-PHASE THREE





WESTBOUND-PHASE THREE

MAINTENANCE OF TRAFFIC

CALC BY: DATE:
CHKD DATE:

PREBLE COUNTY
PRE-70-2.41

FHWA REGION 5 OHIO

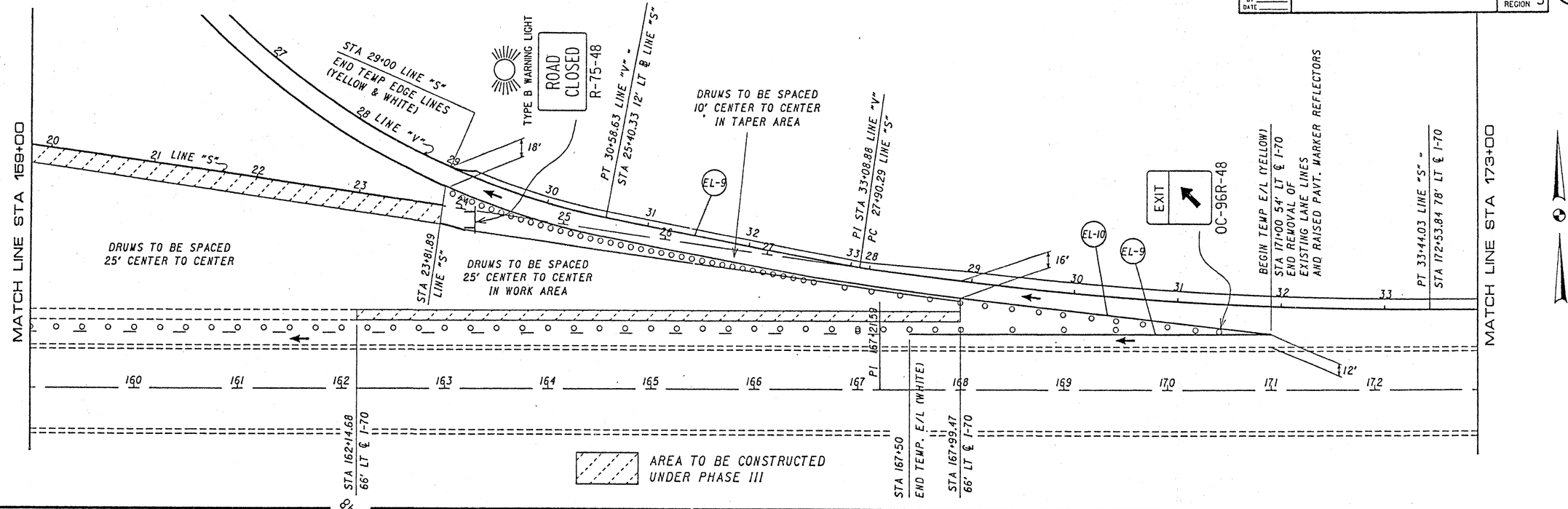
24
194

CALC BY DATE
CHKD BY DATE

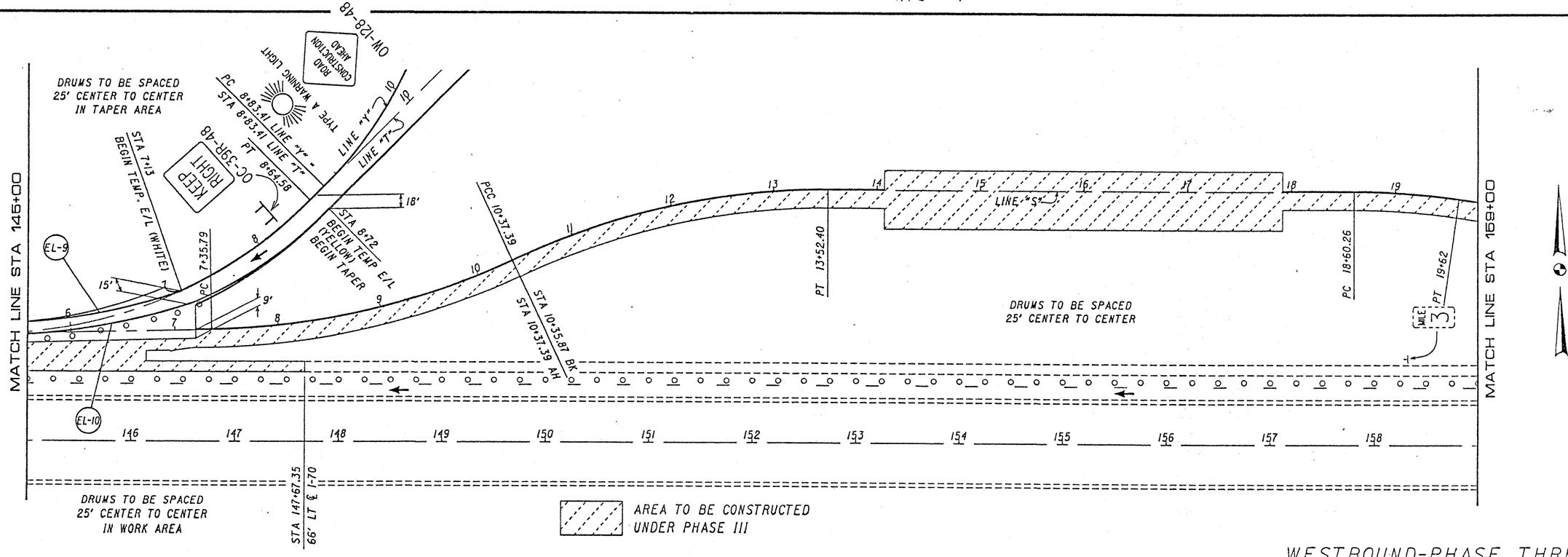
PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

25
194

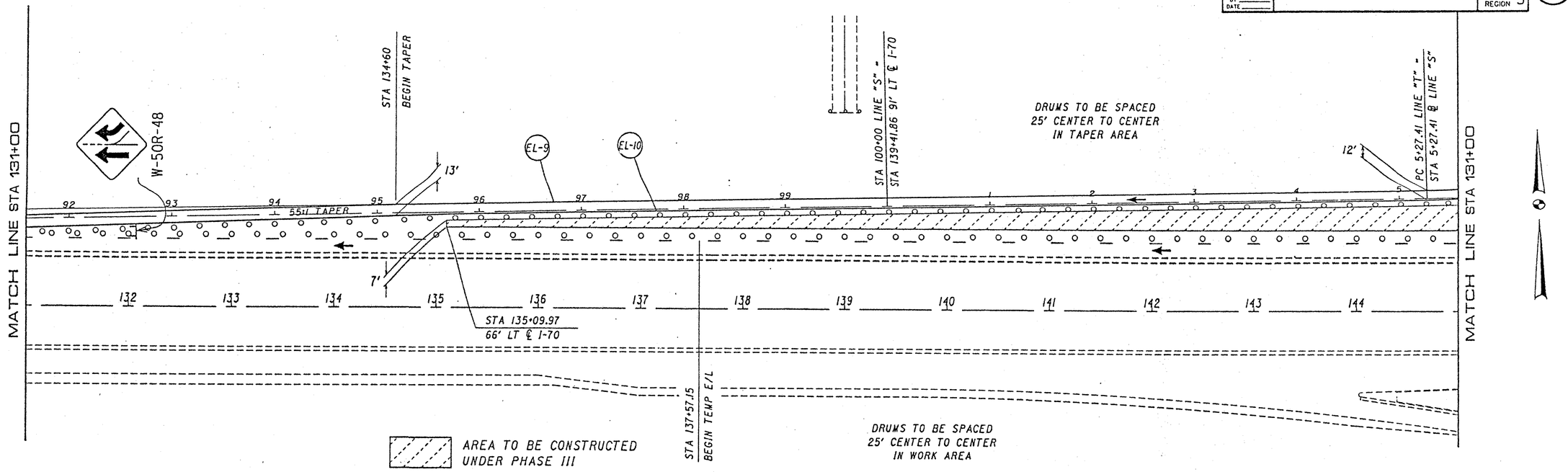


OW-128-48



WESTBOUND-PHASE THREE

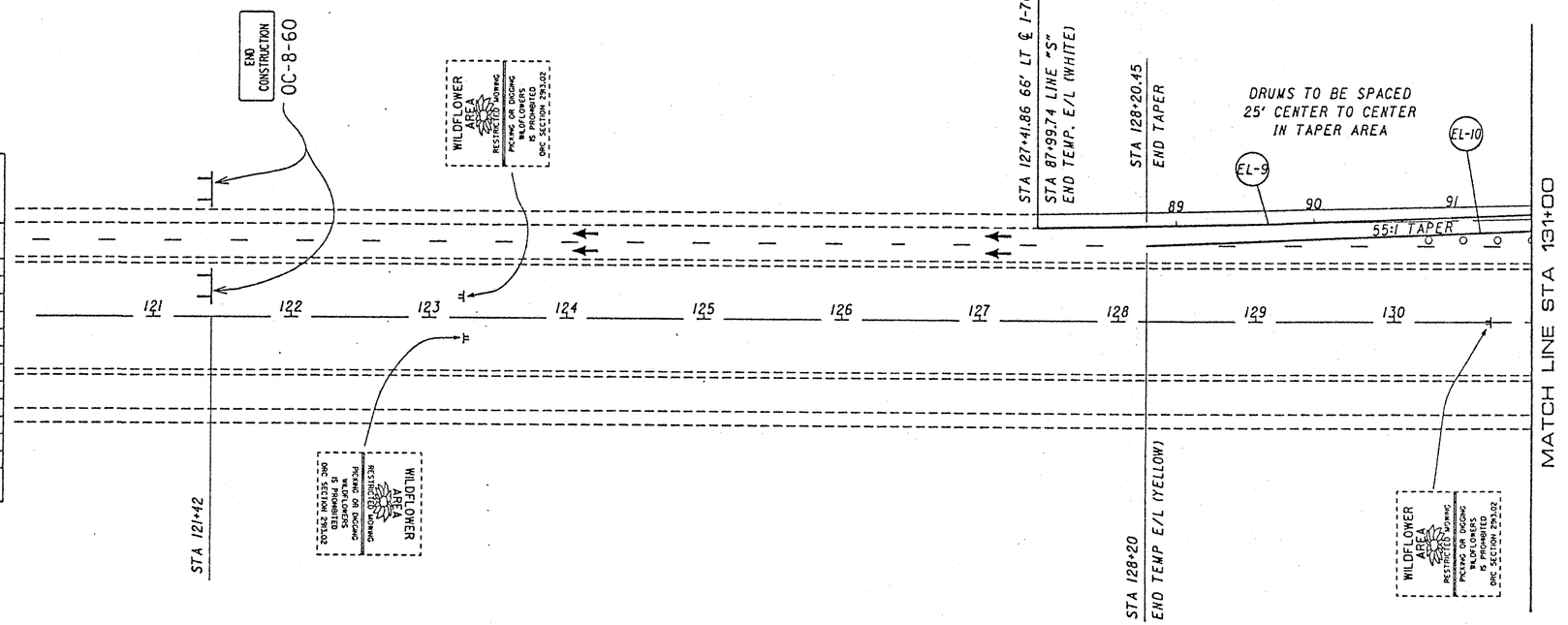
CALC BY DATE	PREBLE COUNTY	OHIO	26
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



WESTBOUND-PHASE THREE
ESTIMATED QUANTITIES

REF. NO.	ITEM	TOTAL	UNIT	DESCRIPTION
EL-9	614	0.83	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, WHITE
EL-10	614	0.53	MI.	TEMPORARY EDGE LINES, CLASS I, 740.05 TYPE C, YELLOW
PM-3	614	2653	L.F.	TEMPORARY PARKING LOT STALL MARKINGS CLASS I, 740.05 TYPE C
PM-4	614	1589	L.F.	TEMPORARY PARKING LOT STALL MARKINGS, CLASS I, 740.05 TYPE C

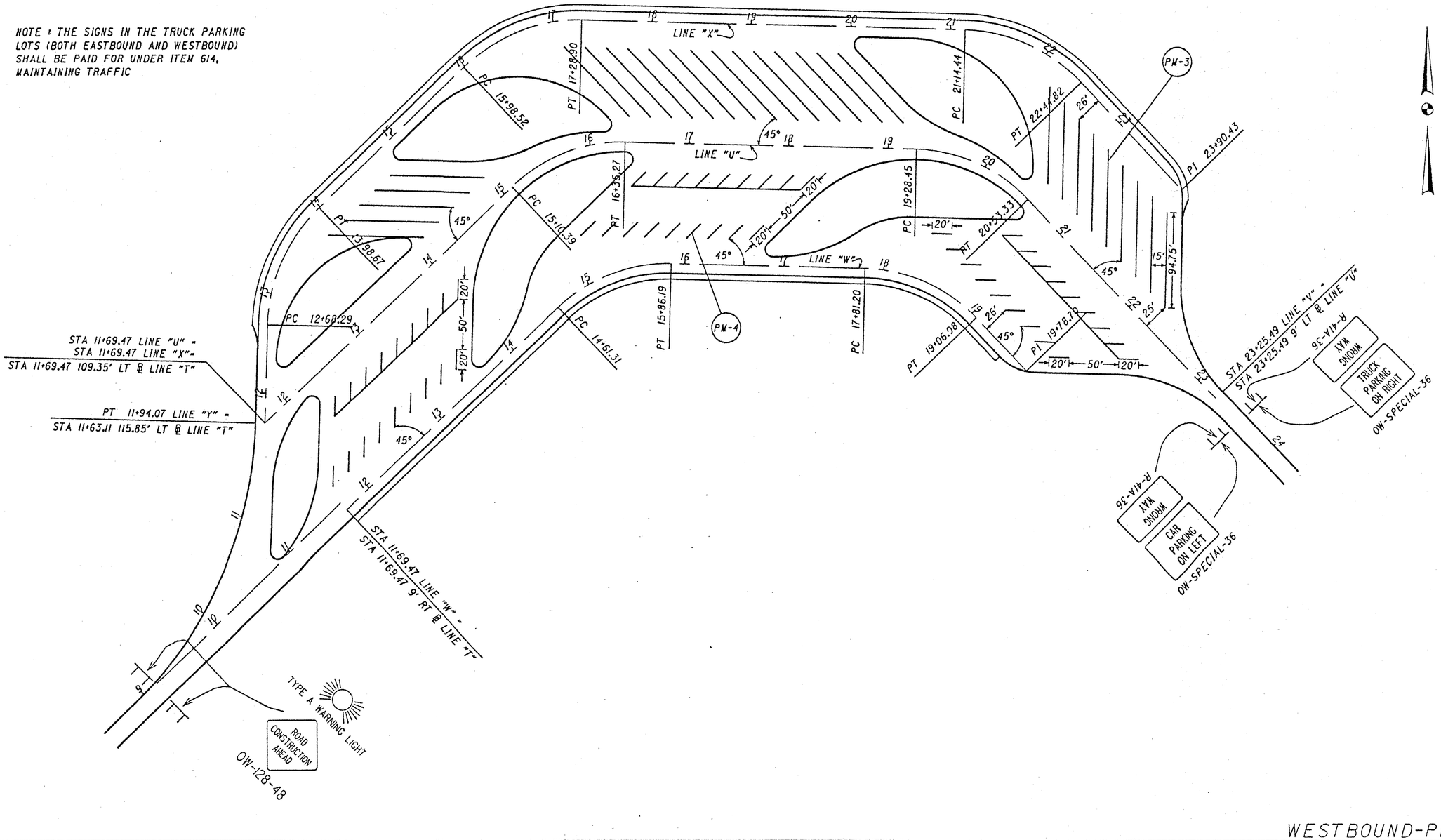
TOTALS CARRIED TO GENERAL SUMMARY



WESTBOUND-PHASE THREE

CALC BY DATE	PREBLE COUNTY	OHIO	27
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

NOTE : THE SIGNS IN THE TRUCK PARKING LOTS (BOTH EASTBOUND AND WESTBOUND) SHALL BE PAID FOR UNDER ITEM 614, MAINTAINING TRAFFIC



WESTBOUND-PHASE THREE

WESTBOUND PAVEMENT CALCULATIONS

CALC BY DATE
CHKD BY DATE
PREBLE COUNTY
PRE-70-2.41
OHIO
FHWA REGION 5
28
194

ITEM 404 - 1¼" Asphalt Concrete
DECELERATION LANE
TAPER AREA STA. 35+94.21 TO STA. 36+94.93 LINE "S"
AREA = ½(100.72)(10)+(100.72)(10) = 1510.8 SQ. FT.
1510.8 X 1.25/12 X 1/27 = 5.83 CU. YD.

STA. 33+44.03 TO STA. 35+94.21 LINE "S"
AREA = (250.18)(20) = 5003.6 SQ. FT.
5003.6 X 1.25/12 X 1/27 = 19.3 CU. YD.

STA. 28+90.69 TO STA. 33+44.03 LINE "S"
CADD GENERATED AREA = 13,154.8 SQ. FT.
13,154.8 X 1.25/12 X 1/27 = 50.75 CU. YD.

CAR PARKING AREA
STA. 14+07.95 TO STA. 17+90.25 LINE "S"
AREA = 55 X 382.30 = 21,026.50 SQ. FT.
21,026.50 X 1.25/12 X 1/27 = 81.12 CU. YD.

ACCELERATION LANE
STA. 87+99.74 TO STA. 100+00 LINE "S"
AREA = ½(1200.26)(25)+(1200.26)(10) = 27,005.85 SQ. FT.
27,005.85 X 1.25/12 X 1/27 = 104.19 CU. YD.

NOSE AREA
STA. 0+00 TO STA. 6+72.20 LINE "S"
AREA = (672.2)(9) + ½(672.2)(14) = 10755.2 SQ. FT.
10755.2 X 1.25/12 X 1/27 = 41.49 CU. YD.

I-70 SHOULDERS
STA. 146+72.13 TO STA. 147+67.35
AREA = (95.22)(10) = 952.2 SQ. FT.
952.2 X 1.25/12 X 1/27 = 3.67 CU. YD.

STA. 162+14.68 TO STA. 167+99.47
AREA = (10)(584.79) = 5847.9 SQ. FT.
5847.9 X 1.25/12 X 1/27 = 22.56 CU. YD.

TOTAL ITEM 404 = 328.91 CU. YD.

ITEM 402 - 1¾" Asphalt Concrete
DECELERATION LANE
TAPER AREA STA. 35+94.21 TO STA. 36+94.93 LINE "S"
AREA = ½(100.72)(10)+(100.72)(10) = 1510.8 SQ. FT.
1510.8 X 1.75/12 X 1/27 = 8.16 CU. YD.

STA. 33+44.03 TO STA. 35+94.21 LINE "S"
AREA = (250.18)(20) = 5003.6 SQ. FT.
5003.6 X 1.75/12 X 1/27 = 27.03 CU. YD.

STA. 28+90.69 TO STA. 33+44.03 LINE "S"
CADD GENERATED AREA = 13,154.8 SQ. FT.
13,154.8 X 1.75/12 X 1/27 = 71.05 CU. YD.

CAR PARKING AREA
STA. 14+07.95 TO STA. 17+90.25 LINE "S"
AREA = 15 X 382.3 = 5734.5 SQ. FT.
5734.5 X 1.75/12 X 1/27 = 30.97 CU. YD.

ACCELERATION LANE
STA. 87+99.74 TO STA. 100+00 LINE "S"
AREA = ½(1200.26)(25)+(1200.26)(10) = 27,005.85 SQ. FT.
27,005.85 X 1.75/12 X 1/27 = 145.86 CU. YD.

NOSE AREA
STA. 0+00 TO STA. 6+72.20 LINE "S"
AREA = (672.2)(9) + ½(672.2)(14) = 10755.2 SQ. FT.
10755.2 X 1.75/12 X 1/27 = 58.09 CU. YD.

ITEM 402 - 1¾" Asphalt Concrete Continued
I-70 SHOULDERS
STA. 146+72.13 TO STA. 147+67.35
AREA = (95.22)(10) = 952.2
952.2 X 1.75/12 X 1/27 = 5.14 CU. YD.

STA. 162+14.68 TO STA. 167+99.47
AREA = (10)(584.79) = 5847.9 SQ. FT.
5847.9 X 1.75/12 X 1/27 = 31.59 CU. YD.

TOTAL ITEM 402 = 377.89 CU. YD.

ITEM 301 - 13" Bituminous Aggregate Base
DECELERATION LANE
TAPER AREA STA. 35+94.21 TO STA 36+94.93 LINE "S"
AREA = ½(100.72)(10)+(100.72)(10) = 1510.8 SQ. FT.
1510.8 SQ. FT. X 13/12 X 1/27 = 60.62 CU. YD.

STA. 33+44.03 TO STA. 35+94.21 LINE "S"
AREA = (250.18)(20) = 5003.6 SQ. FT.
5003.6 SQ. FT. X 13/12 X 1/27 = 200.76 CU. YD.

STA. 28+90.69 TO STA. 33+44.03 LINE "S"
CADD GENERATED AREA = 13,154.8 SQ. FT.
13,154.8 X 13/12 X 1/27 = 527.82 CU. YD.

ACCELERATION LANE
STA. 87+99.74 TO STA. 100+00 LINE "S"
AREA = ½(1200.26)(25)+(1200.26)(10) = 27,005.85 SQ. FT.
27,005.85 X 13/12 X 1/27 = 1083.57 CU. YD.

ITEM 301 - 8" Bituminous Aggregate Base
NOSE AREA
STA. 0+00 TO STA. 6+72.20 LINE "S"
AREA = (672.2)(9) + ½(672.2)(14) = 10755.2 SQ. FT.
10755.2 X 8/12 X 1/27 = 265.56 CU. YD.

I-70 SHOULDERS
STA. 146+72.13 TO STA. 147+67.35
AREA = (95.22)(10) = 952.2 SQ. FT.
952.2 X 8/12 X 1/27 = 23.51 CU. YD.

STA. 162+14.68 TO STA. 167+99.47
AREA = (10)(584.79) = 5847.9 SQ. FT.
5847.9 X 8/12 X 1/27 = 144.39 CU. YD.

TOTAL ITEM 301 = 2306.23 CU. YD.

ITEM 304 - 6" Aggregate Base, As Per Plan
DECELERATION LANE
TAPER AREA STA. 35+94.21 TO STA. 36+94.93 LINE "S"
AREA = ½(100.72)(12) = 604.32 SQ. FT.
604.32 SQ. FT. X 6/12 X 1/27 = 11.19 CU. YD.

STA. 33+44.03 TO STA. 35+94.21 LINE "S"
AREA = (250.18)(12) = 3002.16 SQ. FT.
3002.16 SQ. FT. X 6/12 X 1/27 = 55.6 CU. YD.

STA. 28+90.69 TO STA. 33+44.03 LINE "S"
CADD GENERATED AREA = 9531.99 SQ. FT.
9531.99 X 6/12 X 1/27 = 176.52 CU. YD.

RAMP
STA. 27+90.29 TO STA. 28+90.69 LINE "S"
AREA = (16)(100.4) = 1606.4 SQ. FT.
1606.4 X 6/12 X 1/27 = 29.75 CU. YD.

ITEM 304 - 6" Aggregate Base Continued
CAR RAMP
STA. 23+81.89 TO STA. 27+90.29 LINE "S"
CADD GENERATED AREA = 11,431.17 SQ. FT.
11,431.17 X 6/12 X 1/27 = 211.69 CU. YD.

STA. 17+90.25 TO STA. 23+81.89 LINE "S"
AREA = 17 X 591.64 = 10,057.88 SQ. FT.
10,057.88 X 6/12 X 1/27 = 186.26 CU. YD.

CAR RAMP
STA. 7+20.28 TO STA. 14+07.95 LINE "S"
AREA = 17 X 686.15 = 11,664.55 SQ. FT.
11,664.55 X 6/12 X 1/27 = 216.01 CU. YD.

STA. 5+27.41 TO STA. 7+20.28 LINE "S"
CADD GENERATED AREA = 5804.29 SQ. FT.
5804.29 X 6/12 X 1/27 = 107.49 CU. YD.

STA. 0+00 TO STA. 5+27.41 LINE "S"
AREA = 16 X 527.41 = 8438.56 SQ. FT.
8438.56 X 6/12 X 1/27 = 156.27 CU. YD.

ACCELERATION LANE
STA. 87+99.74 TO STA. 100+00 LINE "S"
AREA = ½ (1200.26)(25) + (1200.26)(10.5) = 27,605.98 SQ. FT.
27,605.98 X 6/12 X 1/27 = 511.22 CU. YD.

NOSE AREA
STA. 0+00 TO STA. 6+72.20 LINE "S"
CADD GENERATED AREA = 5518.2 SQ. FT.
5518.2 X 6/12 X 1/27 = 102.19 CU. YD.

TRUCK RAMP
STA. 23+47.74 TO STA. 27+02.70 LINE "V"
AREA = 19.33 X 554.96 = 10,727.38 SQ. FT.
10,727.38 X 6/12 X 1/27 = 198.66 CU. YD.

STA. 21+59.50 LINE "U" TO STA. 23+47.74 LINE "V"
CADD GENERATED AREA = 17,930.05 SQ. FT.
17,930.05 X 6/12 X 1/27 = 332.04 CU. YD.

TRUCK PARKING LOT
STA. 11+69.47 TO STA. 21+59.50 LINE "U"
CADD GENERATED AREA = 178,409.08 SQ. FT.
178,409.08 X 6/12 X 1/27 = 3303.87 CU. YD.

TRUCK RAMP
STA. 8+83.41 LINE "Y" TO STA. 11+69.47 LINE "U"
CADD GENERATED AREA = 12,956.37 SQ. FT.
12,956.37 X 6/12 X 1/27 = 239.93 CU. YD.

STA. 7+18.41 TO STA. 8+83.41 LINE "T"
AREA = 19.33 X 165 = 3189.45 SQ. FT.
3189.45 X 6/12 X 1/27 = 59.06 CU. YD.

ITEM 304 - Variable Depth Aggregate Base
DECELERATION LANE - SHOULDER
STA. 35+94.21 TO STA. 36+94.93 LINE "S"
AVG. CADD GENERATED END AREA = 4.72 SQ. FT.
4.72 X 100.72 X 1/27 = 17.61 CU. YD.

I-70 SHOULDERS
STA. 146+72.13 TO STA. 147+67.35
CADD GENERATED AREA = 5.10 SQ. FT.
95.22 X 5.10 X 1/27 = 17.99 CU. YD.

ITEM 304 - Variable Depth Aggregate Base Continued
I-70 SHOULDERS
STA. 162+14.68 TO STA. 167+99.47
CADD GENERATED AREA = 5.10 SQ. FT.
584.79 X 5.10 X 1/27 = 110.46 CU. YD.

RAMP - SHOULDER
STA. 28+90.69 TO STA. 35+94.21 LINE "S"
CADD GENERATED END AREA = 3.97 SQ. FT.
3.97 X 703.52 X 1/27 = 103.44 CU. YD.

STA. 27+90.29 TO STA. 28+90.69 LINE "S"
AVG. CADD GENERATED END AREA = 3.33 SQ. FT.
3.33 X 100.4 X 1/27 = 12.38 CU. YD.

STA. 29+02.70 TO STA. 33+08.88 LINE "V"
CADD GENERATED END AREA = 2.74 SQ. FT.
2.74 X 406.18 X 1/27 = 41.22 CU. YD.

STA. 5+27.41 TO STA. 7+18.41 LINE "S"
CADD GENERATED END AREA = 2.74 SQ. FT.
2.74 X 191 X 1/27 = 19.38 CU. YD.

RAMP - SHOULDER
STA. 1+00 TO STA. 5+27.41 LINE "S"
CADD GENERATED END AREA = 2.74 SQ. FT.
2.74 X 427.41 X 1/27 = 43.37 CU. YD.

STA. 0+00 TO STA. 1+00 LINE "S"
AVG. CADD GENERATED END AREA = 3.97 SQ. FT.
3.97 X 100 X 1/27 = 14.70 CU. YD.

NOSE AREA
STA. 0+00 TO STA. 6+72.20 LINE "S"
CADD GENERATED AVERAGE END AREA = 4.52 SQ. FT.
4.52 X 672.2 X 1/27 = 112.53 CU. YD.

CAR PARKING LOT
STA. 14+07.95 TO STA. 17+90.25 LINE "S"
CADD GENERATED END AREA = 7.94 SQ. FT.
7.94 X 382.3 X 1/27 = 112.42 CU. YD.

TRUCK PARKING LOT
STA. 11+00 TO STA. 19+78.70 LINE "U"
CADD GENERATED END AREA = 7.98 SQ. FT.
7.98 X 878.7 X 1/27 = 259.70 CU. YD.

TRUCK PARKING LOT - SHOULDER
STA. 12+43.32 TO STA. 23+97.18 LINE "X"
CADD GENERATED END AREA = 2.74 SQ. FT.
2.74 X 1178.98 X 1/27 = 119.64 CU. YD.

TOTAL ITEM 304 = 6882.59 CU. YD.

ITEM 305 - 9" Concrete Pavement
CAR PARKING LOT
STA. 14+07.95 TO STA. 17+90.25 LINE "S"
15 X 382.3 X 1/9 = 637.17 SQ. YD.

TOTAL ITEM 305 = 637.17 SQ. YD.

TOTALS CARRIED TO GENERAL SUMMARY

WESTBOUND PAVEMENT CALCULATIONS

CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

29
194

ITEM 451 - 9" Reinforced Concrete, As Per Plan
CAR RAMPS
STA. 7+20.28 TO STA. 14+07.95 LINE "S"
16 X 686.15 X 1/9 = ---------- 1219.82 SQ. YD.

STA. 17+90.25 TO STA. 23+81.89 LINE "S"
16 X 591.64 X 1/9 = ---------- 1051.80 SQ. YD.

TOTAL ITEM 451 = 2271.62 SQ. YD.

ITEM 451 - 11" Reinforced Concrete Pavement, As Per Plan
RAMP
STA. 0+00 TO STA. 5+27.41 LINE "S"
16 X 527.41 X 1/9 = ---------- 937.62 SQ. YD.

STA. 5+27.41 TO STA. 7+20.28 LINE "S"
CADD GENERATED AREA = 5804.29 SQ. FT.
5804.29 X 1/9 = ---------- 644.92 SQ. YD.

STA. 7+18.41 TO STA. 8+83.41 LINE "T"
18 X 165 X 1/9 = ---------- 330 SQ. YD.

STA. 8+83.41 LINE "Y" TO STA. 10+84.54 LINE "T"
CADD GENERATED AREA = 6699.51 SQ. FT.
6699.51 X 1/9 = ---------- 744.39 SQ. YD.

STA. 23+25.49 TO STA. 29+02.70 LINE "U"
18 X 577.21 X 1/9 = ---------- 1154.42 SQ. YD.

STA. 23+81.89 TO STA. 28+90.69 LINE "S"
CADD GENERATED AREA = 11431.17 SQ. FT.
11431.17 X 1/9 = ---------- 1270.13 SQ. YD.

TOTAL ITEM 451 = 5081.48 SQ. YD.

ITEM 452 - 11" Plain Concrete Pavement. As Per Plan
ENTRANCE RAMP
STA. 23+81.89 TO STA. 28+90.69 LINE "S"
(3)(508.8)(1/9) + (6)(408.4)(1/9) + (6)(100.4)(1/9)
+ (1/2)(2)(100.4)(1/9) = ---------- 519.96 SQ. YD.

TRUCK PARKING LOT
STA. 10+84.54 LINE "T" TO STA. 23+25.49 LINE "U"
CADD GENERATED AREA = 231,809.06 SQ. FT.
231,809.06 X 1/9 = ---------- 25,756.56 SQ. YD.

EXIT RAMP
STA. 0+00 TO STA. 1+00 LINE "S"
[(6 X 100)+ 1/2(4 X 100)] 1/9 = ---------- 88.89 SQ. YD

STA. 1+00 TO STA. 5+27.41 LINE "S"
6 X 427.41 X 1/9 = ---------- 284.94 SQ. YD.

STA. 5+27.41 TO STA. 7+20.28 LINE "S"
6 X 192.87 X 1/9 = ---------- 128.58 SQ. YD.

TOTAL ITEM 452 = 26,778.93 SQ. YD.

ITEM 254 - Pavement Planing
STA. 14+07.95 TO STA. 17+90.25 LINE "S"
382.30 X 40 X 1/9 = ---------- 1699 SQ. YD.

TOTAL ITEM 254 = 1699 SQ. YD.

ITEM 407 - Tack Coat
STA. 14+07.95 TO STA. 17+90.25 LINE "S"
382.30 X 55 X 1/9 X 0.075 GAL/S.Y. = ---------- 175.2 GAL.

TOTAL ITEM 407 = 175.2 GAL.

ITEM 203 - Subgrade Compaction
ACCELERATION LANE
STA. 87+99.74 TO STA. 100+00 LINE "S"
1200.26 X 1/2(10.5+25.5) X 1/9 = ---------- 2400.52 SQ. YD.

NOSE AREA
STA. 0+00 TO STA. 7+20.28 LINE "S"
CADD GENERATED AREA = ---------- 3399.5 SQ. YD.

RAMP
STA. 7+20.28 TO STA. 14+07.95 LINE "S"
687.67 X 17 X 1/9 = ---------- 1298.93 SQ. YD.

STA. 17+90.25 TO STA. 23+81.89 LINE "S"
591.64 X 17 X 1/9 = ---------- 1117.54 SQ. YD.

STA. 23+81.89 TO STA. 27+90.29 LINE "S"
CADD GENERATED AREA = ---------- 1712.78 SQ. YD.

STA. 27+90.29 TO STA. 28+90.69 LINE "S"
100.4 X 1/2(26+28) X 1/9 = ---------- 301.2 SQ. YD.

DECELERATION LANE
STA. 28+90.69 TO STA. 33+44.03 LINE "S"
CADD GENERATED AREA = ---------- 1490.74 SQ. YD.

STA. 33+44.03 TO STA. 36+94.93 LINE "S"
(250.18 X 20.5 X 1/9)+(100.72 X 1/2(20.5+10.5) X 1/9 =
569 + 173.46 = ---------- 743.31 SQ. YD.

TRUCK RAMP
STA. 7+18.41 TO STA. 8+83.41 LINE "T"
165 X 19.33 X 1/9 = ---------- 354.4 SQ. YD.

TRUCK PARKING
STA. 8+83.41 LINE "T" TO STA. 23+25.49 LINE "V"
CADD GENERATED AREA = ---------- 25,651.59 SQ. YD.

TRUCK RAMP
STA. 23+25.49 TO STA. 29+02.70 LINE "V"
577.21 X 19.33 X 1/9 = ---------- 1239.7 SQ. YD.

TOTAL ITEM 203 = 39,710.21 SQ. YD.

TOTALS CARRIED TO GENERAL SUMMARY

EASTBOUND PAVEMENT CALCULATIONS

CALC BY DATE ____ CHKD BY DATE ____ | PREBLE COUNTY PRE-70-2.41 | OHIO FHWA REGION 5 | 30 194

ITEM 404 - 1¼" Asphalt Concrete

DECELERATION LANE

TAPER STA. 0+00 TO STA. 1+00.72 LINE "A"
AREA = ½(100.72)(10)+(100.72)(10) = 1510.8 SQ. FT.
1510.8 X 1.25/12 X 1/27 = ... 5.83 CU. YD.

STA. 1+00.72 TO STA. 3+51.62 LINE "A"
AREA = (250.9)(20) = 5018 SQ. FT.
5018 X 1.25/12 X 1/27 = ... 19.36 CU. YD.

STA. 3+51.62 TO STA. 8+05.35 LINE "A"
CADD GENERATED AREA = 13,162.5 SQ. FT.
13,162.5 X 1.25/12 X 1/27 = ... 50.78 CU. YD.

CAR PARKING AREA

STA. 20+84.97 TO STA. 26+40.77 LINE "A"
CADD GENERATED AREA = 26.825 SQ. FT.
26.825 X 1.25/12 X 1/27 = ... 103.49 CU. YD.

ACCELERATION LANE

STA. 37+90.62 TO STA. 49+70.66 LINE "A"
AREA = ½(1180.04)(25)+(1180.04)(10) = 26,550.9 SQ. FT.
26,550.9 X 1.25/12 X 1/27 = ... 102.43 CU. YD.

NOSE AREA

STA. 32+28.62 TO STA. 37+90.62 LINE "A"
AREA = (562 X 9) + ½(562 X 14) = 8992 SQ. FT.
8992 X 1.25/12 X 1/27 = ... 34.69 CU. YD.

I-70 SHOULDERS

STA. 136+54.07 TO STA. 145+03.86
AREA = (849.79)(10) = 8497.9 SQ. FT.
8497.9 SQ. FT. X 1.25/12 X 1/27 = ... 32.79 CU. YD.

STA. 159+50.04 TO STA. 159+90.44
AREA = (40.4)(10) = 404 SQ. FT.
404 X 1.25/12 X 1/27 = ... 1.56 CU. YD.

TOTAL ITEM 404 = 350.93 CU. YD.

ITEM 402 - 1¾" Asphalt Concrete

DECELERATION LANE

TAPER AREA STA. 0+00 TO STA. 1+00.72 LINE "A"
AREA = ½(100.72)(10)+(100.72)(10) = 1510.8 SQ. FT.
1510.8 SQ. FT. X 1.75/12 X 1/27 = ... 8.16 CU. YD.

STA. 1+00.72 TO STA. 3+51.62 LINE "A"
AREA = (250.9)(20) = 5018 SQ. FT.
5018 SQ. FT. X 1.75/12 X 1/27 = ... 27.10 CU. YD.

STA. 3+51.62 TO STA. 8+05.35 LINE "A"
CADD GENERATED AREA = 13,162.5 SQ. FT.
13,162.5 X 1.75/12 X 1/27 = ... 71.09 CU. YD.

CAR PARKING AREA

STA. 21+73.96 TO STA. 25+20.04 LINE "A"
CADD GENERATED AREA = 4666 SQ. FT.
4666 X 1.75/12 X 1/27 = ... 25.20 CU. YD.

STA. 20+84.97 TO STA. 21+62.75 LINE "A"
CADD GENERATED AREA = 3849 SQ. FT.
3849 X 1.75/12 X 1/27 = ... 20.80 CU. YD.

ACCELERATION LANE

STA. 37+90.62 TO STA. 49+70.66 LINE "A"
AREA = ½(1180.04)(25)+(1180.04)(10) = 26,550.9 SQ. FT.
26,550.9 X 1.75/12 X 1/27 = ... 143.41 CU. YD.

ITEM 402 - 1¾" Asphalt Concrete Continued

NOSE AREA

STA. 32+28.62 TO STA. 37+90.62 LINE "A"
AREA = (562 X 9) + ½(562 X 14) = 8992 SQ. FT.
8992 X 1.75/12 X 1/27 = ... 48.57 CU. YD.

I-70 SHOULDERS

STA. 136+54.07 TO STA. 145+03.86
AREA = (10)(849.79) = 8497.9 SQ. FT.
8497.9 X 1.75/12 X 1/27 = ... 45.89 CU. YD.

I-70 SHOULDERS

STA. 159+50.04 TO STA. 159+90.44
AREA = (40.4)(10) = 404 SQ. FT.
404 X 1.75/12 X 1/27 = ... 2.18 CU. YD.

TOTAL ITEM 402 = 392.4 CU. YD.

ITEM 301 - 13" Bituminous Aggregate Base

DECELERATION LANE

TAPER AREA STA. 0+00 TO STA. 1+00.7.72 LINE "A"
AREA = 1510.8 SQ. FT.
1510.8 X 13/12 X 1/27 = ... 60.62 CU. YD.

STA. 1+00.72 TO STA. 3+51.62 LINE "A"
AREA = 5018.0 SQ. FT.
5018.0 X 13/12 X 1/27 = ... 201.34 CU. YD.

STA. 3+51.62 TO STA. 8+04.95 LINE "A"
CADD GENERATED AREA = 13,162.50 SQ. FT.
13,162.50 X 13/12 X 1/27 = ... 528.13 CU. YD.

ACCELERATION LANE

STA. 37+90.62 TO STA. 49+70.66 LINE "A"
AREA = 26,550.9 SQ. FT.
26,550.9 X 13/12 X 1/27 = ... 1065.31 CU. YD.

ITEM 301 - 8" Bituminous Aggregate Base

NOSE AREA

STA. 32+28.62 TO STA. 37+90.62 LINE "A"
AREA = (562 X 9) + ½(562 X 14) = 8992 SQ. FT.
8992 X 8/12 X 1/27 = ... 222.02 CU. YD.

I-70 SHOULDER

STA. 136+54.07 TO STA. 145+03.86
AREA = 10 X 849.79 = 8497.9 SQ. FT.
8497.9 X 8/12 X 1/27 = ... 209.8 CU. YD.

STA. 159+50.04 TO STA. 159+90.44
AREA = (40.4)(10) = 404 SQ. FT.
404 X 8/12 X 1/27 = ... 9.98 CU. YD.

TOTAL ITEM 301 = 2297.2 CU. YD.

ITEM 304 - 6" Aggregate Base, As Per Plan

DECELERATION LANE

STA. 0+00 TO STA. 1+00.72 LINE "A"
AREA = ½(12)(100.72) = 604.32 SQ. FT.
604.32 X 6/12 X 1/27 = ... 11.19 CU. YD.

STA. 1+00 TO STA. 8+05.35 LINE "A"
AREA = 12 X 704.63 = 8455.56 SQ. FT.
8455.56 X 6/12 X 1/27 = ... 156.58 CU. YD.

RAMP

STA. 8+05.35 TO STA. 9+05.35 LINE "A"
AREA = 16 X 100 = 1600.0 SQ. FT.
1600.0 X 6/12 X 1/27 = ... 29.63 CU. YD.

ITEM 304 - 6" Aggregate Base Continued

CAR RAMP

STA. 9+05.35 TO STA. 13+14 LINE "A"
CADD GENERATED AREA = 11,452.01 SQ. FT.
11,452.01 X 6/12 X 1/27 = ... 212.07 CU. YD.

STA. 13+14 TO STA. 20+84.97 LINE "A"
AREA = 17 X 770.73 = 13,102.41 SQ. FT.
13,102.41 X 6/12 X 1/27 = ... 242.64 CU. YD.

CAR PARKING LOT

STA. 20+84.97 TO STA. 21+62.75 LINE "A"
CADD GENERATED AREA = 2969.16 SQ. FT.
2969.16 X 6/12 X 1/27 = ... 54.98 CU. YD.

CAR RAMP

STA. 26+40.77 TO STA. 29+96.80 LINE "A"
AREA = 356.03 X 17 = 6052.51 SQ. FT.
6052.51 X 6/12 X 1/27 = ... 112.08 CU. YD.

STA. 29+96.80 TO STA. 32+28.62 LINE "A"
CADD GENERATED AREA = 7754.66 SQ.FT.
7754.66 X 6/12 X 1/27 = ... 143.60 CU. YD.

STA. 32+28.62 TO STA. 37+90.62 LINE "A"
AREA = 16 X 562 = 8992 SQ.FT.
8992 X 6/12 X 1/27 = ... 166.52 CU. YD.

ACCELERATION LANE

STA. 37+90.62 TO STA. 49+70.66 LINE "A"
AREA = ½ (25)(1180.04) + (1180.04)(10.5) = 27,140.92 SQ.FT.
27,140.92 X 6/12 X 1/27 = ... 502.61 CU. YD.

TRUCK RAMP

STA. 13+11.77 TO STA. 15+79.96 LINE "B"
AREA = 19.33 X 268.19 = 5184.13 SQ. FT.
5184.13 X 6/12 X 1/27 = ... 96.00 CU. YD.

TRUCK PARKING LOT

STA. 15+79.96 LINE "C" TO STA. 34+05.01 LINE "D"
CADD GENERATED AREA = 226,540.29 SQ. FT.
226,540.29 X 6/12 X 1/27 = ... 4195.19 CU. YD.

TRUCK RAMP

STA. 34+05.01 TO STA. 35+81.13 LINE "D"
AREA = 176.12 X 19.33 = 3404.40 SQ. FT.
3404.40 X 6/12 X 1/27 = ... 63.04 CU. YD.

NOSE AREA

STA. 32+28.62 TO STA. 37+90.62 LINE "A"
CADD GENERATED AREA = 4394 SQ. FT.
4394 X 6/12 X 1/27 = ... 81.37 CU. YD.

ITEM 304 - Variable Depth Aggregate Base

DECELERATION LANE - SHOULDER

STA. 0+00 TO STA. 1+00.72 LINE "A"
AVG. CADD GENERATED END AREA = 4.72 SQ. FT.
4.72 X 100.72 X 1/27 = ... 17.61 CU. YD.

STA. 1+00.72 TO STA. 8+05.35 LINE "A"
CADD GENERATED END AREA = 3.97 SQ. FT.
3.97 X 704.63 X 1/27 = ... 103.61 CU. YD.

I-70 SHOULDERS

STA. 136+54.07 TO STA. 145+03.86
CADD GENERATED END AREA = 5.10 SQ. FT.
5.10 X 849.79 X 1/27 = ... 160.50 CU. YD.

ITEM 304 - Variable Depth Aggregate Base Continued

I-70 SHOULDERS

STA. 159+50.04 TO STA. 159+90.44
CADD GENERATED END AREA = 5.10 SQ. FT.
5.10 X 40.40 X 1/27 = ... 7.63 CU. YD.

RAMP - SHOULDER

STA. 8+05.35 TO STA. 9+05.35 LINE "A"
AVG. CADD GENERATED END AREA = 3.33 SQ. FT.
3.33 X 100 X 1/27 = ... 12.33 CU. YD.

STA. 9+05.35 TO STA. 13+16.69 LINE "B"
CADD GENERATED END AREA = 2.74 SQ. FT.
2.74 X 411.34 X 1/27 = ... 41.74 CU. YD.

STA. 29+96.80 TO STA. 32+28.62 LINE "A"
CADD GENERATED AREA = 2.74 SQ. FT.
2.74 X 229.2 X 1/27 = ... 23.26 CU. YD.

STA. 32+28.62 LINE "D" TO STA. 36+90.62 LINE "A"
CADD GENERATED END AREA = 2.74 SQ. FT.
2.74 X 462 X 1/27 = ... 46.88 CU. YD.

STA. 36+90.62 TO STA. 37+90.62 LINE "A"
AVG. CADD GENERATED END AREA = 3.97 SQ. FT.
3.97 X 100 X 1/27 = ... 14.70 CU. YD.

CAR PARKING LOT

STA. 20+84.97 TO STA. 25+20.04 LINE "A"
CADD GENERATED END AREA = 7.94 SQ. FT.
7.94 X 435.07 X 1/27 = ... 127.94 CU. YD.

TRUCK PARKING LOT

STA. 17+71.54 TO STA. 25+70. LINE "E"
CADD GENERATED END AREA = 7.98 SQ. FT.
7.98 X 798.46 X 1/27 = ... 235.99 CU. YD.

TRUCK PARKING - SHOULDER

STA. 17+97.06 TO STA. 28+75.04 LINE "F"
CADD GENERATED END AREA = 2.74 SQ. FT.
2.74 X 1090.45 X 1/27 = ... 110.66 CU. YD.

NOSE AREA

STA. 32+28.62 TO STA. 37+90.62 LINE "A"
CADD GENERATED AVERAGE END AREA = 4.52 SQ. FT.
4.52 X 562 X 1/27 = ... 94.08 CU. YD.

TOTAL ITEM 304 = 7,064.43 CU. YD.

ITEM 305 - 9" Concrete Pavement

CAR PARKING LOT

STA. 20+84.97 TO STA. 21+62.75 LINE "A"
CADD GENERATED AREA = 3849 SQ. FT.
3849 X 1/9 = ... 427.67 SQ. YD.

STA. 21+73.96 TO STA. 25+20.04 LINE "A"
CADD GENERATED AREA = 4666 SQ. FT.
4666 X 1/9 = ... 518.44 SQ. YD.

TOTAL ITEM 305 = 946.11 SQ. YD.

TOTALS CARRIED TO GENERAL SUMMARY

EASTBOUND PAVEMENT CALCULATIONS

CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

31
194

ITEM 451 - 9" Reinforced Concrete, As Per Plan

CAR RAMPS

STA. 13+14 TO STA. 20+79.24 LINE "A"
16 X 765 X 1/9 = ---------- 1360 SQ. YD.

STA. 26+40.77 TO STA. 29+96.80 LINE "A"
16 X 356 X 1/9 = ---------- 632.89 SQ. YD.

TOTAL ITEM 451 = 1992.89 SQ. YD.

ITEM 451 - 11" Reinforced Concrete Pavement, As Per Plan

RAMP

STA. 8+05.35 TO STA. 13+14 LINE "A"
CADD GENERATED AREA = 11496.18 SQ. FT.
11496.18 X 1/9 = ---------- 1277.35 SQ. YD.

TRUCK RAMP

STA. 13+11.77 TO STA. 15+79.96 LINE "B"
18 X 268.19 X 1/9 = ---------- 536.38 SQ. YD.

STA. 29+99.45 LINE "E" TO STA. 34+05.01 LINE "D"
CADD GENERATED AREA = 2753.52 SQ. FT.
2753.52 X 1/9 = ---------- 305.91 SQ. YD.

STA. 34+05.01 TO STA. 35+81.13 LINE "D"
18 X 176.12 X 1/9 = ---------- 352.24 SQ. YD.

STA. 29+96.80 TO STA. 32+28.62 LINE "D"
CADD GENERATED AREA = 7017.35 SQ. FT.
7017.35 X 1/9 = ---------- 779.71 SQ. YD.

STA. 32+28.62 TO STA. 37+90.62 LINE "A".
16 X 562 X 1/9 = ---------- 999.1 SQ. YD.

TOTAL ITEM 451 = 4250.69 SQ. YD.

ITEM 452 - 11" Plain Concrete Pavement. As Per Plan

EXIT RAMP

STA. 8+5.35 TO STA. 13+14 LINE "A"
9 X 508.65 X 1/9 = ---------- 508.65 SQ. YD.

TRUCK PARKING LOT

STA. 15+79.96 LINE "C" TO STA. 29+99.45 LINE "E"
CADD GENERATED AREA = 240,909.35 SQ. FT.
240,909.35 X 1/9 = ---------- 26,767.71 SQ. YD.

ENTRANCE RAMP

STA. 35+81.13 LINE "D" TO STA. 36+90.62 LINE "A"
6 X 691.2 X 1/9 = ---------- 460.8 SQ. YD.

STA. 36+90.62 TO STA. 37+90.62 LINE "A"
[(6 X 100)+ ½ (2 X 100)] 1/9 = ---------- 77.78 SQ. YD

STA. 37+90.62 TO STA. 49+70.66 LINE "A"
10 X 1180.4 X 1/9 = ---------- 1311.16 SQ. YD.

TOTAL ITEM 452 = 29,126.10 SQ. YD.

ITEM 254 - Pavement Planing

STA. 21+60.31 TO STA. 26+40.77
CADD GENERATED AREA = ---------- 1991.6 SQ. YD.

TOTAL ITEM 254 = 1991.6 SQ. YD.

ITEM 407 - Tack Coat

STA. 20+84.97 TO STA. 26+40.77 LINE "A"
CADD GENERATED AREA = 2424 SQ. YD.
2424 SQ. YD. X 0.075 GAL/SQ. YD. = ---------- 181.8 GAL.

TOTAL ITEM 407 = 181.8 GAL.

ITEM 203 - Subgrade Compaction

DECELERATION LANE

STA. 0+00 TO STA. 1+00.72 LINE "A"
100.72 X ½(10.5+20.5) X 1/9 = ---------- 173.46 SQ. YD.

STA. 1+00.72 TO STA. 3+51.62 LINE "A"
250.9 X 20.5 X 1/9 = ---------- 571.5 SQ. YD.

STA. 3+51.62 TO STA. 8+05.35 LINE "A"
CADD GENERATED AREA = ---------- 1487 SQ. YD.

RAMP

STA. 8+05.35 TO STA. 9+05.35 LINE "A"
100 X ½(24.5 +22.5) X 1/9 = ---------- 261.1 SQ. YD.

STA. 9+05.35 TO STA. 13+14 LINE "A"
CADD GENERATED AREA = ---------- 1718 SQ. YD.

STA. 13+14 TO STA. 20+84.97 LINE "A"
770.97 X 17 X 1/9 = ---------- 1456.3 SQ. YD.

CAR PARKING

STA. 20+84.97 TO STA. 25+57.09 LINE "A"
CADD GENERATED AREA = ---------- 987 SQ. YD.

RAMP

STA. 26+40.77 TO STA. 29+96.80 LINE "A"
356.03 X 17 X 1/9 = ---------- 672.5 SQ. YD.

STA. 29+96.80 TO STA. 32+28.62 LINE "A"
CADD GENERATED AREA = ---------- 1104 SQ. YD.

STA. 32+28.62 TO STA. 37+90.62 LINE "A"
CADD GENERATED AREA = ---------- 2377 SQ. YD.

ACCELERATION LANE

STA. 37+90.62 TO STA. 49+70.66 LINE "A" 2015.7
[½(1180.04)(24)+(1180.04)(10.5)] 1/9 = ---------- 2261.74 SQ. YD.

TRUCK RAMP

STA. 13+11.77 TO STA. 15+79.96 LINE "B"
268.19 X 19.33 X 1/9 = ---------- 576.1 SQ. YD.

TRUCK PARKING

STA. 15+79.96 LINE "B" TO STA. 34+05.01 LINE "D"
CADD GENERATED AREA = ---------- 27,500 SQ. YD.

RAMP

STA. 34+05.01 TO STA. 35+81.13 LINE "D"
176.12 X 19.33 X 1/9 = ---------- 378.3 SQ. YD.

TOTAL ITEM 203 = 41,524.00 SQ. YD.

TOTALS CARRIED TO GENERAL SUMMARY

GENERAL SUMMARY

CALC BY / DATE	PREBLE COUNTY	OHIO	32
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194

SHEET NUMBER															ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
3	10	11	29	31	49	50	51	52	65	66	79	80	180	181					
																			ROADWAY
	LUMP														201	11000	LUMP		CLEARING AND GRUBBING
								16,249							202	23000	16,249	SQ. YD.	PAVEMENT REMOVED
							4526								202	32000	4,526	LIN. FT.	CURB REMOVED
									112	244					202	35100	356	LIN. FT.	PIPE REMOVED, 24" AND UNDER
								369							202	38000	369	LIN. FT.	GUARDRAIL REMOVED
									2	5					202	58100	7	EACH	CATCH BASIN REMOVED
								7430							202	75000	7,430	LIN. FT.	FENCE REMOVED
								105,929							203	12000	105,929	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
								81,473					2150	5950	203	20000	89,573	CU. YD.	EMBANKMENT
			39,711	41,524											203	50000	81,235	SQ. YD.	SUBGRADE COMPACTION
								181.25							606	13000	181.25	LIN. FT.	GUARDRAIL, TYPE 5
								2							606	20000	2	EACH	FLARED END SECTION
								1							606	25000	1	EACH	ANCHOR ASSEMBLY, TYPE A
								1							606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE T
								8062							607	15100	8,062	LIN. FT.	FENCE, TYPE 4TRA
					14,447	17,018									608	10000	31,465	SQ. FT.	4" CONCRETE WALK
					3	3									608	50000	6	EACH	CURB RAMP, TYPE I
																			EROSION CONTROL
	36,400														207	10000	36,400	SQ.YD.	TEMPORARY SEEDING & MULCHING
1180	150														207	50000	1330	CU.YD.	TEMPORARY BENCHES, DAMS AND SEDIMENT BASIN
1050	105														207	55000	1155	LIN. FT.	TEMPORARY DIKES
169	40														207	70000	209	EACH	STRAW OR HAY BALES
											6				601	11000	6	SQ. YD.	RIP RAP USING 6" REINFORCED CONCRETE SLAB
											18				601	32000	18	CU. YD.	ROCK CHANNEL PROTECTION TYPE A W/FILTER
										22		3			601	32200	25	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C W/FILTER
									24	29					601	32300	53	CU. YD.	ROCK CHANNEL PROTECTION, TYPE D W/FILTER
12															601	34200	12	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER
										222					670	40000	222	SQ. YD.	DITCH EROSION PROTECTION
									2351	1851					670	41000	4202	SQ. YD.	SLOPE EROSION PROTECTION
	1.64														659	20000	1.64	TON	COMMERCIAL FERTILIZER
	79														659	35000	79	M.GAL.	WATER
																			DRAINAGE
									1.7	2.1	1.3	0.6			602	20000	5.7	CU. YD.	CONCRETE MASONRY
									58						603	00100	58	LIN. FT.	4" CONDUIT, TYPE B
	100														603	01400	100	LIN. FT.	6" CONDUIT, TYPE E
									70	435					603	01500	505	LIN. FT.	6" CONDUIT, TYPE F 707.17 NON-PERFORATED, ASTM 3034 SDR35, OR SS 931
	100														603	01500	100	LIN. FT.	6" CONDUIT, TYPE F
	100														603	02500	100	LIN. FT.	8" CONDUIT, TYPE E
	100														603	02600	100	LIN. FT.	8" CONDUIT, TYPE F
	100								548	1005					603	04400	1553	LIN. FT.	12" CONDUIT, TYPE B
									313	476					603	04600	789	LIN. FT.	12" CONDUIT, TYPE C
									98	345					603	05900	443	LIN. FT.	15" CONDUIT, TYPE B
									271	73					603	06100	344	LIN. FT.	15" CONDUIT, TYPE C
												28			603	07200	28	LIN. FT.	18" CONDUIT, TYPE A, 706.02
									195						603	07400	195	LIN. FT.	18" CONDUIT, TYPE B
									159						603	07600	159	LIN. FT.	18" CONDUIT, TYPE C
											137				603	98300	137	LIN. FT.	CONDUIT TYPE A 48" 706.02 1250 D-LOAD OR 54" 707.09 (0.138) OR 707.02 FIELD PAVED, AS PER PLAN (SEE SHEET 79)

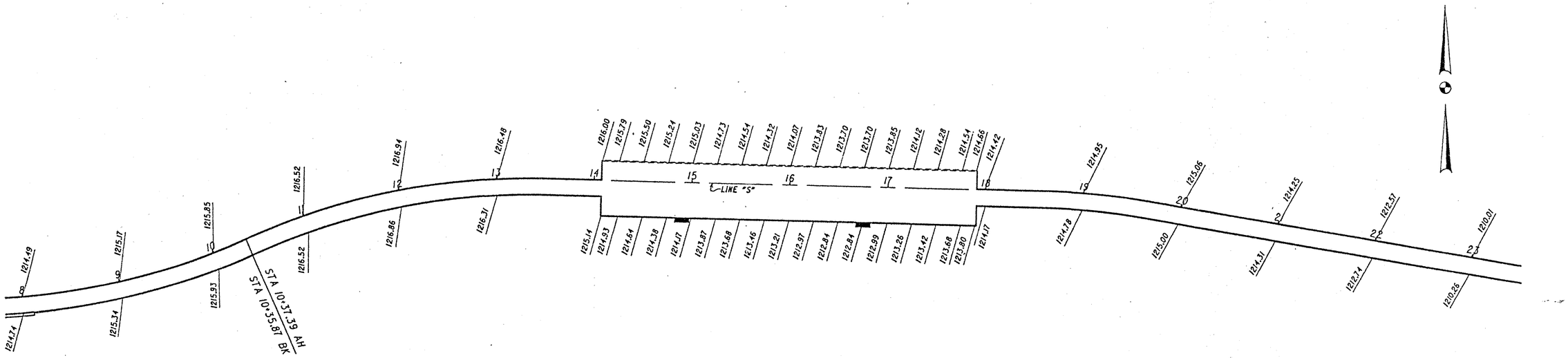
GENERAL SUMMARY

CALC BY / DATE	PREBLE COUNTY	OHIO	33
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194

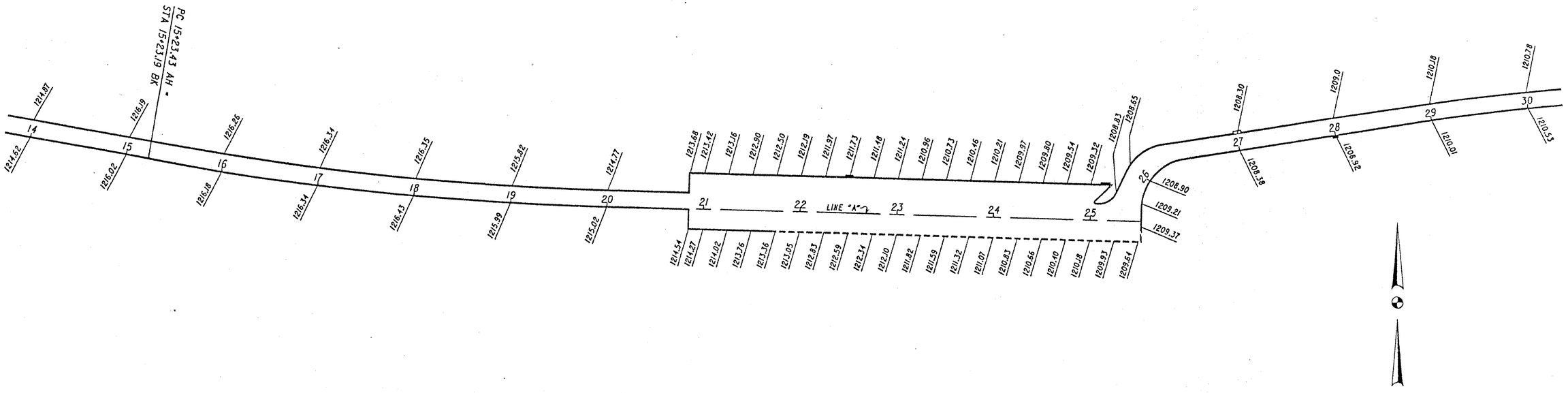
SHEET NUMBER													ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
11	13	16	19	20	26	28	29	30	31	51	65	66					
																	DRAINAGE CONT'D
												1	604	01600	1	EACH	CATCH BASIN, NO. 5
											1	1	604	02000	2	EACH	CATCH BASIN, NO. 6
											2	3	604	04500	5	EACH	CATCH BASIN, NO. 2-28
											1	1	604	17501	2	EACH	INLET NO. 2-A-6, AS PER PLAN A (SEE SHEET 10)
											3	3	604	17501	6	EACH	INLET NO. 2-A-6, AS PER PLAN B (SEE SHEET 10)
											2	3	604	17901	5	EACH	INLET NO. 2-A-8, AS PER PLAN A (SEE SHEET 10)
											2	8	604	17901	10	EACH	INLET NO. 2-A-8, AS PER PLAN B (SEE SHEET 10)
											1		604	18301	1	EACH	INLET NO. 2-A-10, AS PER PLAN A (SEE SHEET 10)
											2	2	604	18301	4	EACH	INLET NO. 2-A-10, AS PER PLAN B (SEE SHEET 10)
											1		604	18701	1	EACH	INLET NO. 2-A-12, AS PER PLAN B (SEE SHEET 10)
											7	9	SPECIAL	60436600	16	EACH	PRECAST REINFORCED CONCRETE OUTLET
											6859	4867	605	05100	11,726	LIN. FT.	4" SHALLOW PIPE UNDERDRAIN
											3089	3712	605	05200	6,801	LIN. FT.	4" UNCLASSIFIED PIPE UNDERDRAIN
																	PAVEMENT
							1699		1992				254	01000	3,691	SQ. YD.	PAVEMENT PLANING, BITUMINOUS
						2307		2298					301	10002	4,605	CU. YD.	BITUMINOUS AGGREGATE BASE, AC-20
						6883		7065					304	20001	13,948	CU. YD.	AGGREGATE BASE, AS PER PLAN (SEE SHEET 10)
						638		947					305	13000	1,585	SQ. YD.	9" CONCRETE BASE
						378		393					402	20000	771	CU. YD.	ASPHALT CONCRETE, AC-20
						329		351					404	20000	680	CU. YD.	ASPHALT CONCRETE, AC-20
							175		182				407	10000	357	GALLON	TACK COAT
							2272		1993				451	14001	4,265	SQ. YD.	9" REINFORCED CONCRETE PAVEMENT, AS PER PLAN (SEE SHEET 10)
							5082		4251				451	15501	9,333	SQ. YD.	11" REINFORCED CONCRETE PAVEMENT, AS PER PLAN (SEE SHEET 10)
							26,779		29,126				452	14101	55,905	SQ. YD.	11" PLAIN CONCRETE PAVEMENT, AS PER PLAN
										5,981			609	26000	5,981	LIN. FT.	CURB, TYPE 6
										13,495			609	28000	13,495	LIN. FT.	CURB, TYPE 7
																	MAINTENANCE OF TRAFFIC
50													404	35000	50	CU. YD.	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC
50													SPECIAL	61411100	50	HOUR	LAW ENFORCEMENT OFFICER W/ PATROL CAR
100													SPECIAL	61412500	100	SQ. FT.	REPLACEMENT SIGN
200													SPECIAL	61412600	200	EACH	REPLACEMENT DRUM
0.1													614	20000	0.1	MILE	TEMPORARY LANE LINE, CLASS I
0.5													614	20400	0.5	MILE	TEMPORARY LANE LINE, CLASS II
2.30	0.58	0.43	0.30	1.28	1.36								614	22300	6.25	MILE	TEMPORARY EDGE LINE, CLASS I, 740.05 TYPE C
1410													614	23000	1410	LIN. FT.	TEMPORARY CHANNELIZING LINES, CLASS I
548													614	25000	548	LIN. FT.	TEMPORARY TRANSVERSE LINE, CLASS I
				4621	4242								614	98100	8863	LIN. FT.	TEMPORARY PARKING LOT STALL MARKING, CLASS I, 740.05 TYPE C
	684	288											615	35001	972	SQ. YD.	TEMPORARY PAVEMENT, AS PER PLAN
25													616	10000	25	M. GAL.	WATER
2													616	20000	2	TONS	CALCIUM CHLORIDE
																	FOR LIGHTING GENERAL SUMMARY SEE SHEET 161
																	FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET 166
																	FOR LANDSCAPING GENERAL SUMMARY SEE SHEET 177
													614	11000	LUMP		MAINTAINING TRAFFIC
													619	15020	LUMP		FIELD OFFICE, TYPE C
													623	10000	LUMP		CONSTRUCTION LAYOUT STAKES
													624	10000	LUMP		MOBILIZATION

PAVEMENT ELEVATIONS

CALC BY / DATE	PREBLE COUNTY	OHIO	34
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194



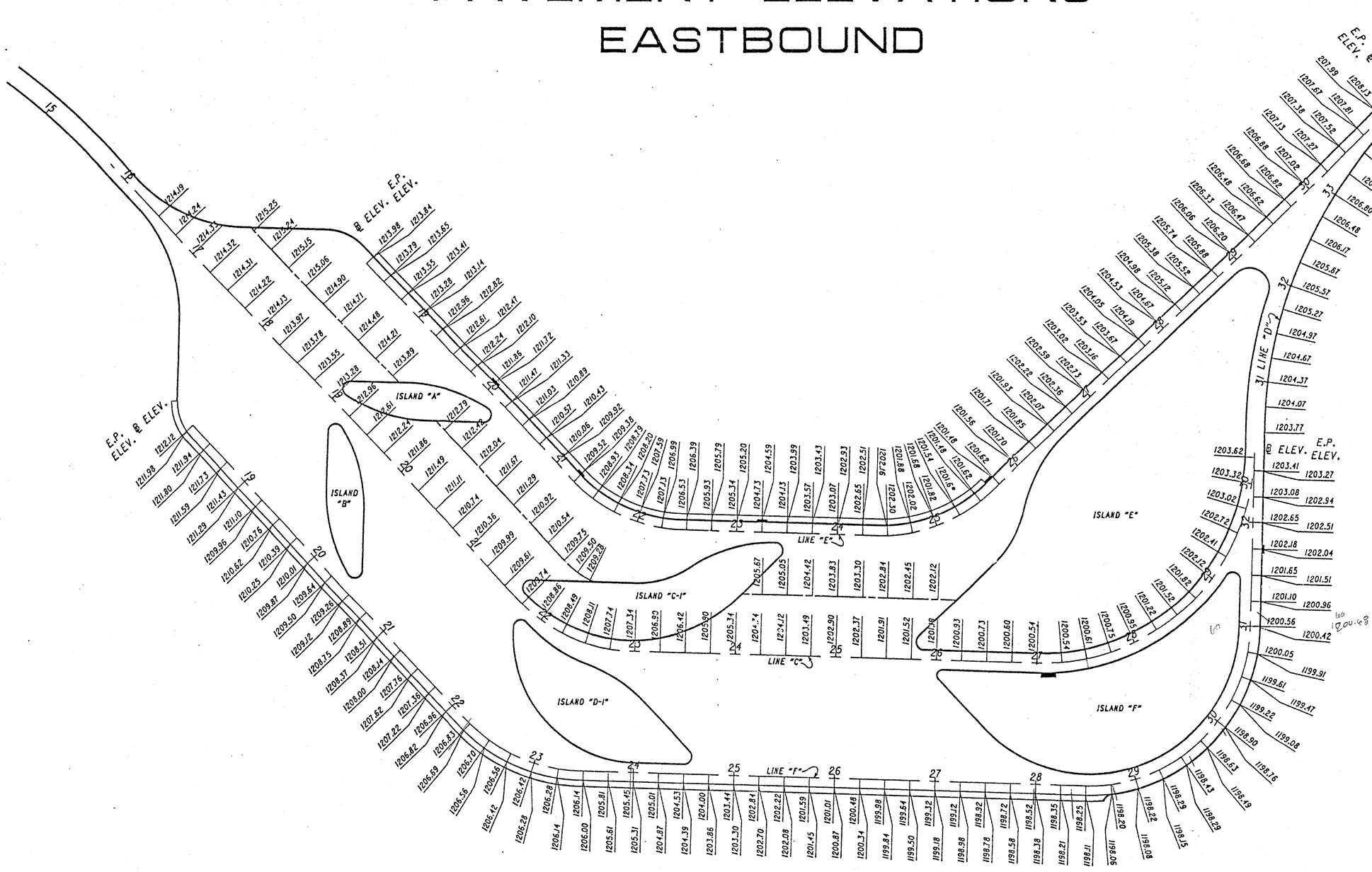
CAR PARKING WESTBOUND



CAR PARKING EASTBOUND

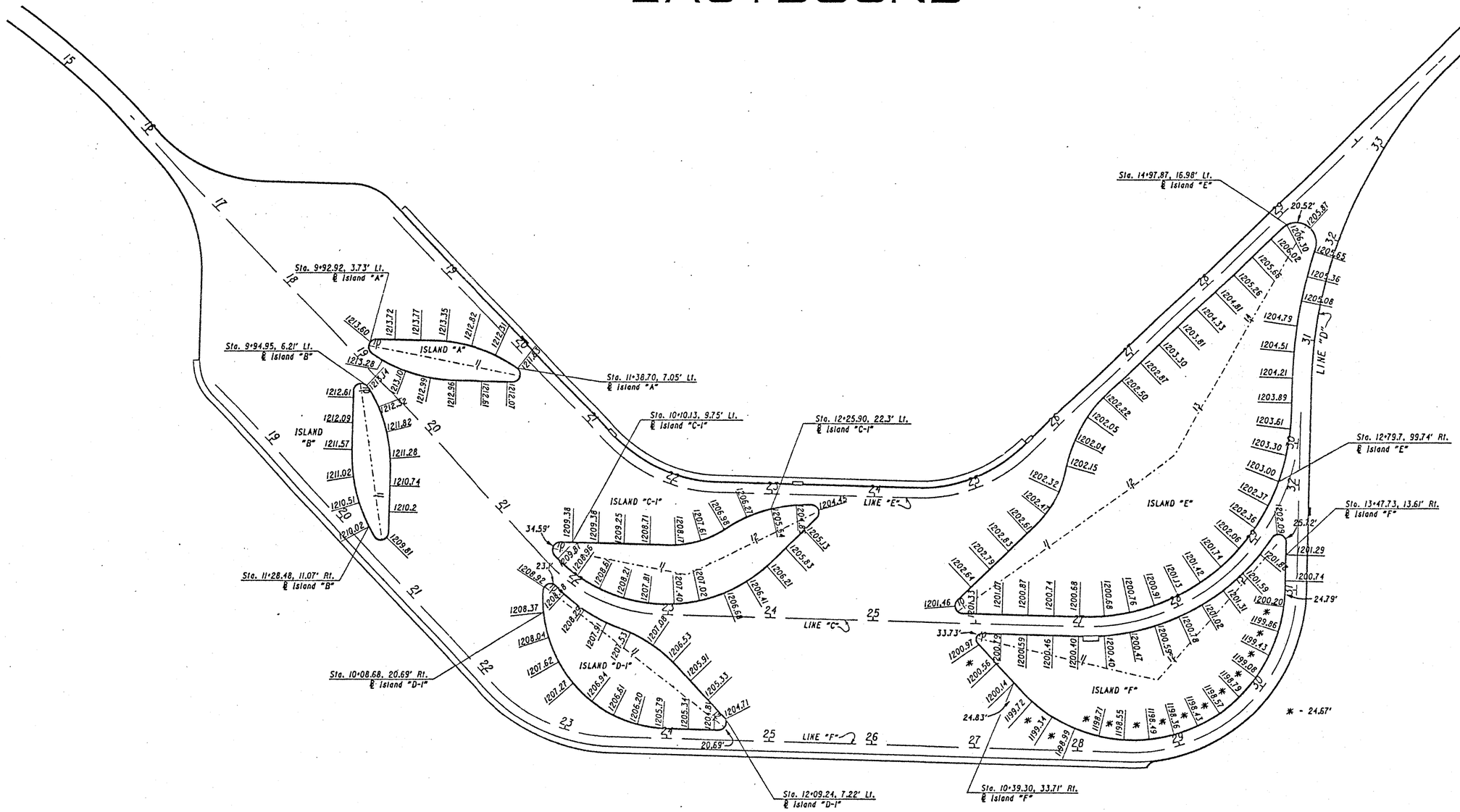
CALC BY DATE	PREBLE COUNTY	OHIO	35
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

PAVEMENT ELEVATIONS
EASTBOUND



CALC BY DATE	PREBLE COUNTY	OHIO	36
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

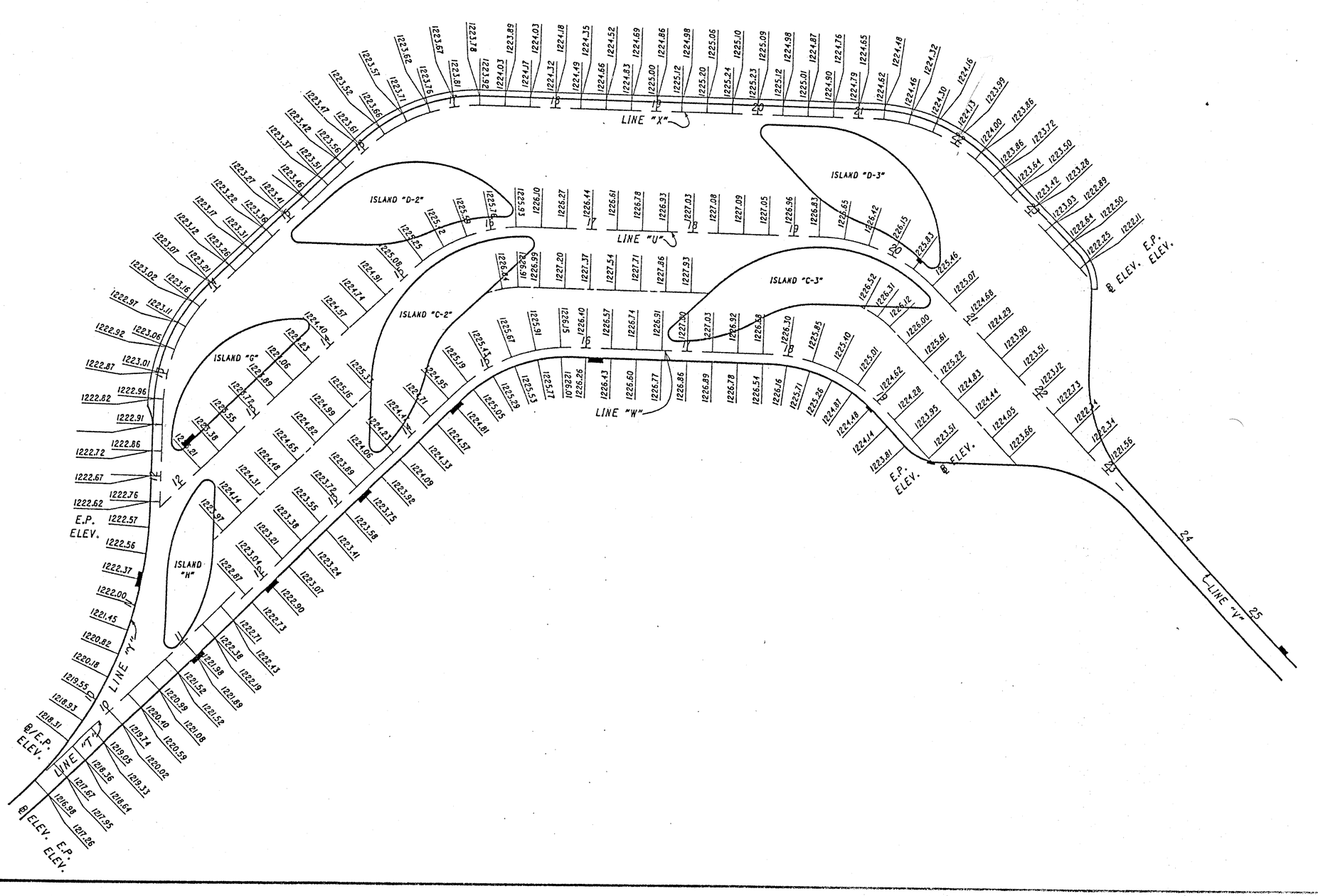
PAVEMENT ELEVATIONS
EASTBOUND



ELEVATIONS ARE AT 25' INTERVALS UNLESS OTHERWISE NOTED AND ARE AT FACE OF CURB. SEE SHEETS 40-43 FOR FURTHER ISLAND DETAILS.

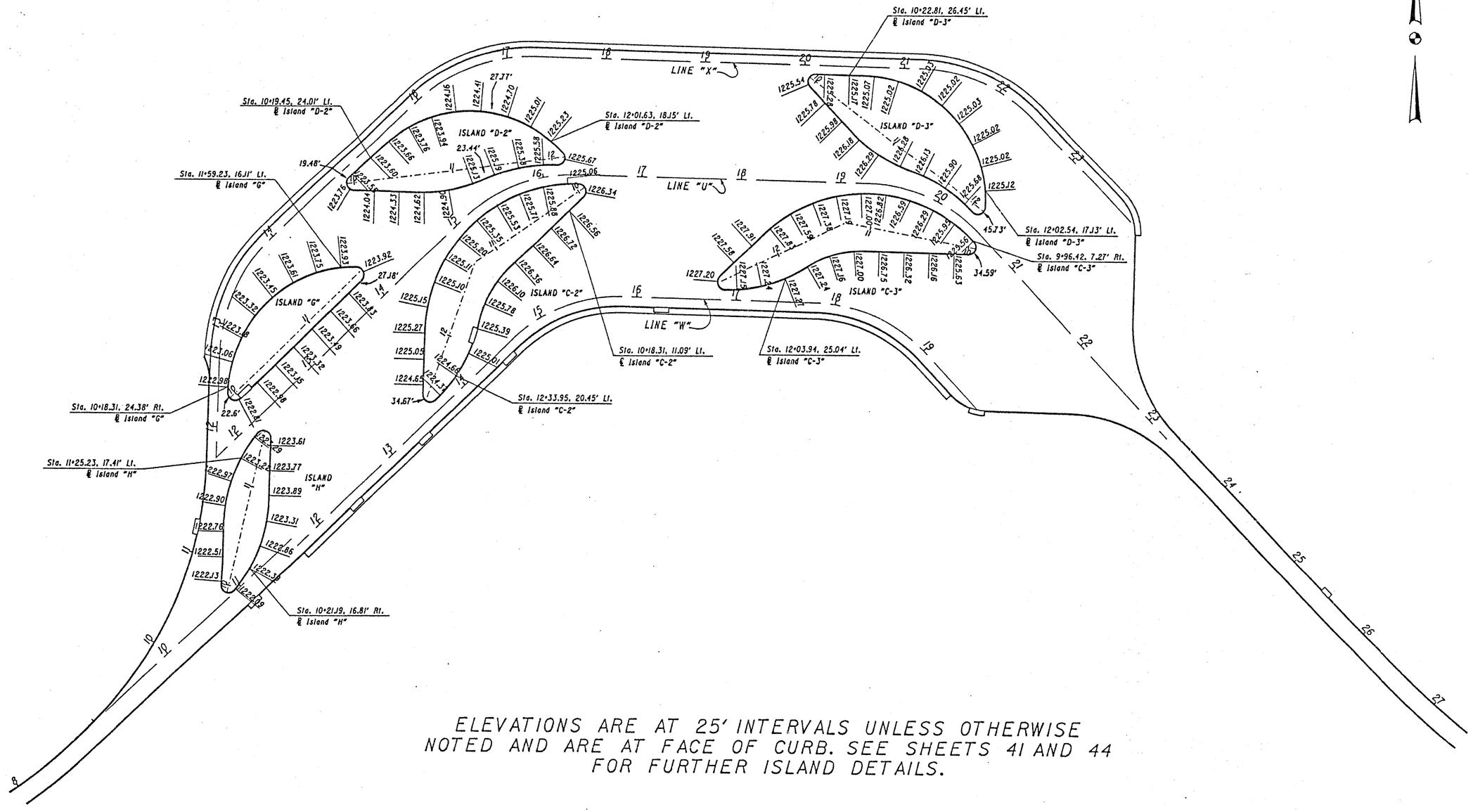
CALC BY DATE	PREBLE COUNTY	OHIO	37
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

PAVEMENT ELEVATIONS
WESTBOUND



CALC BY DATE	PREBLE COUNTY	OHIO	38
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

PAVEMENT ELEVATIONS
WESTBOUND

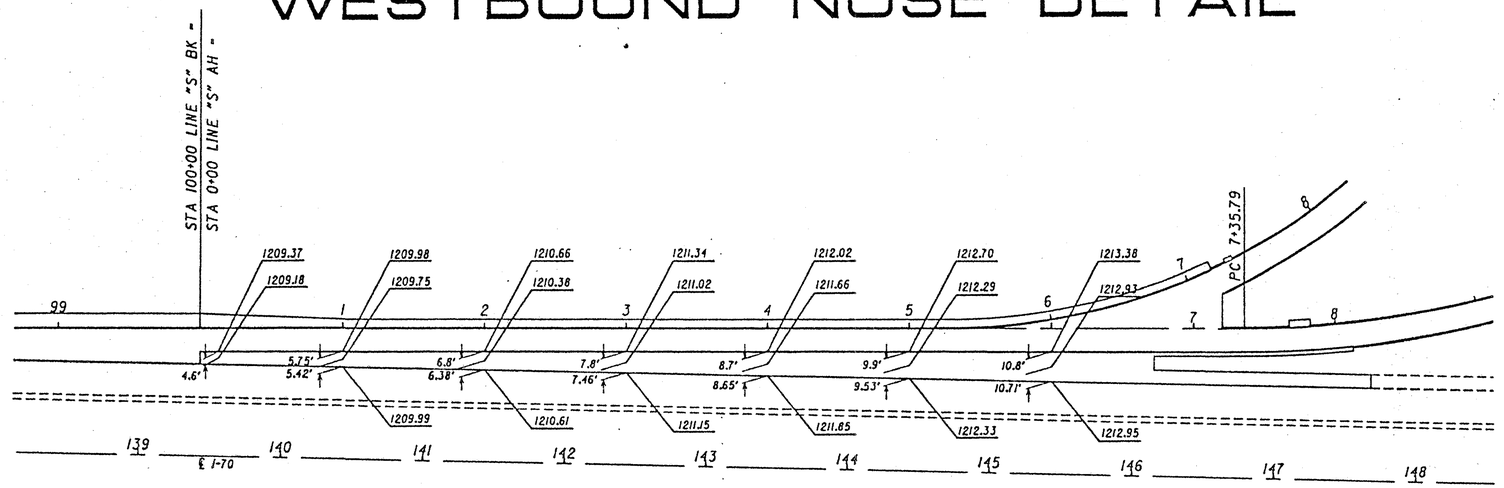


ELEVATIONS ARE AT 25' INTERVALS UNLESS OTHERWISE NOTED AND ARE AT FACE OF CURB. SEE SHEETS 41 AND 44 FOR FURTHER ISLAND DETAILS.

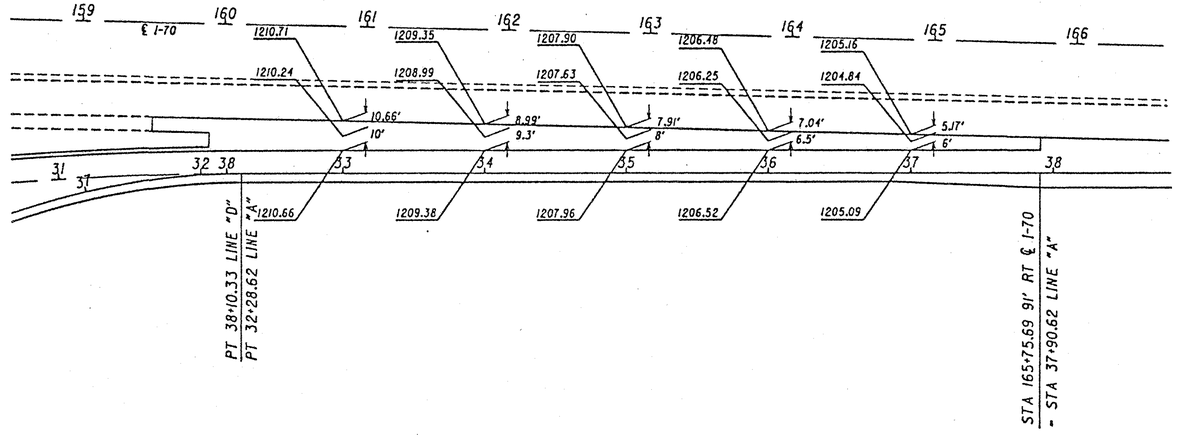
TRUCK PARKING PAVEMENT

CALC BY		PREBLE COUNTY	OHIO	39
DATE		PRE-70-2.41	FHWA REGION 5	194
CHKD BY				
DATE				

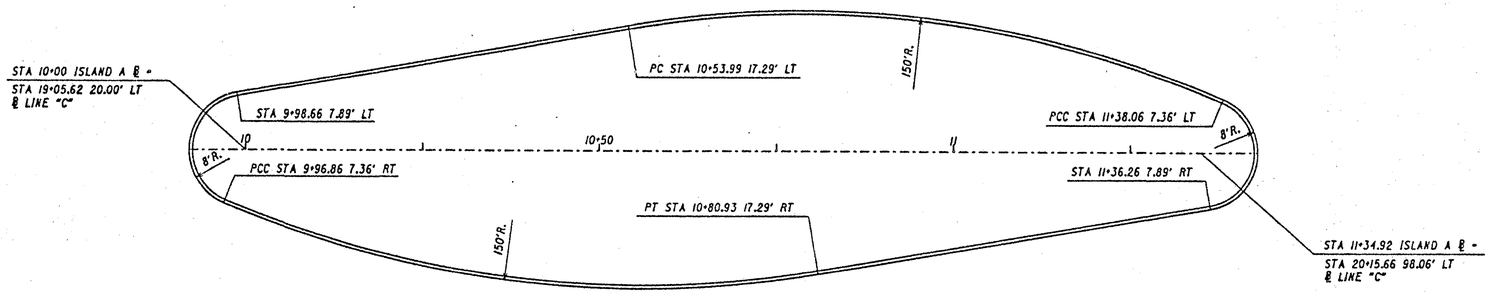
WESTBOUND NOSE DETAIL



EASTBOUND NOSE DETAIL

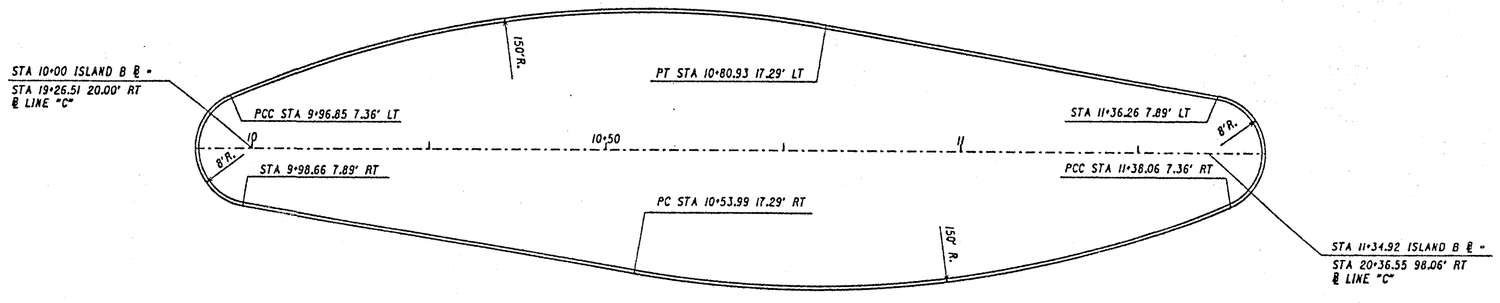


PAVEMENT ELEVATIONS



ISLAND A

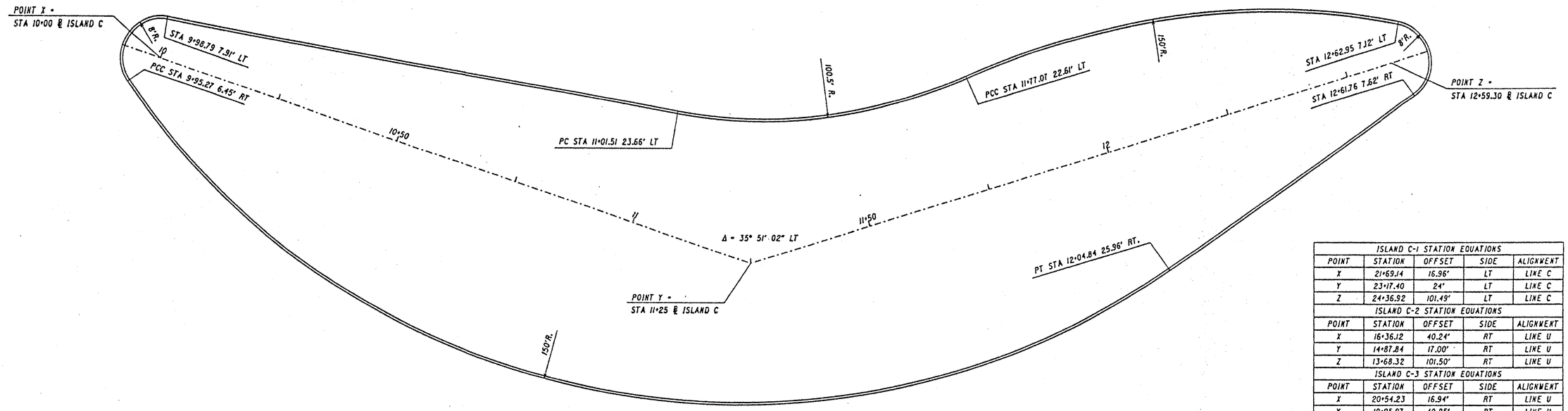
SEE SHEET 36 FOR PAVEMENT ELEVATIONS.



ISLAND B

SEE SHEET 36 FOR PAVEMENT ELEVATIONS.

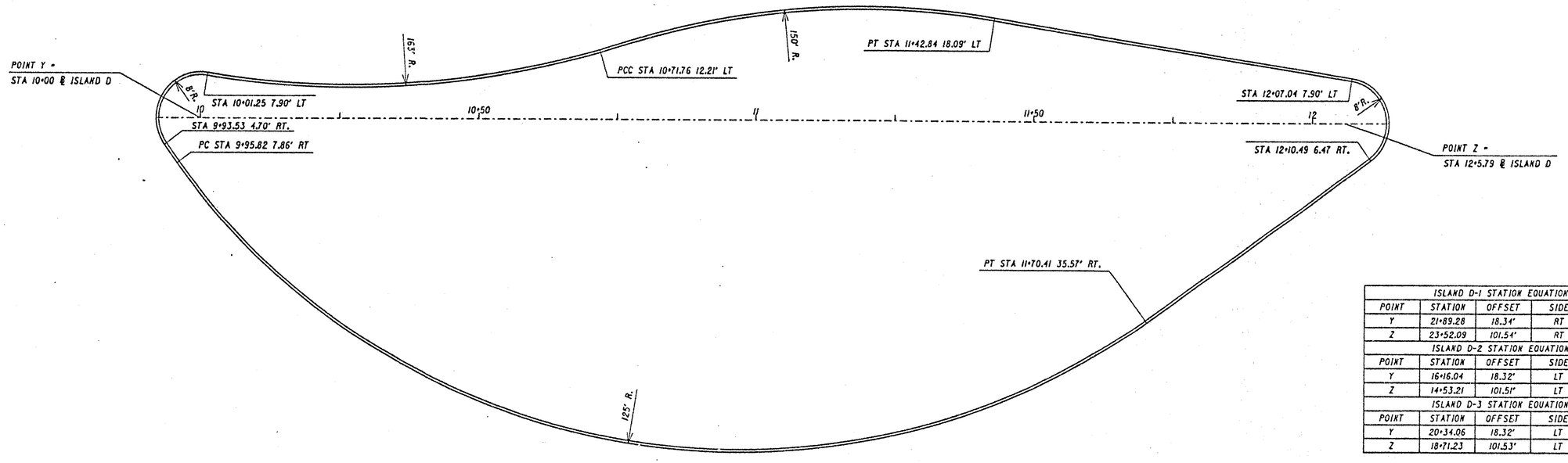
CALC BY	PREBLE COUNTY	OHIO	41
CHKD BY	PRE-70-2.41	FHWA REGION 5	194



ISLAND C-1, C-2, C-3

ISLAND C-1 STATION EQUATIONS				
POINT	STATION	OFFSET	SIDE	ALIGNMENT
X	21+69.14	16.96'	LT	LINE C
Y	23+17.40	24'	LT	LINE C
Z	24+36.92	101.49'	LT	LINE C
ISLAND C-2 STATION EQUATIONS				
POINT	STATION	OFFSET	SIDE	ALIGNMENT
X	16+36.12	40.24'	RT	LINE U
Y	14+87.84	17.00'	RT	LINE U
Z	13+68.32	101.50'	RT	LINE U
ISLAND C-3 STATION EQUATIONS				
POINT	STATION	OFFSET	SIDE	ALIGNMENT
X	20+54.23	16.94'	RT	LINE U
Y	19+05.97	40.25'	RT	LINE U
Z	17+86.46	101.50'	RT	LINE U

SEE SHEETS 36 AND 38 FOR PAVEMENT ELEVATIONS

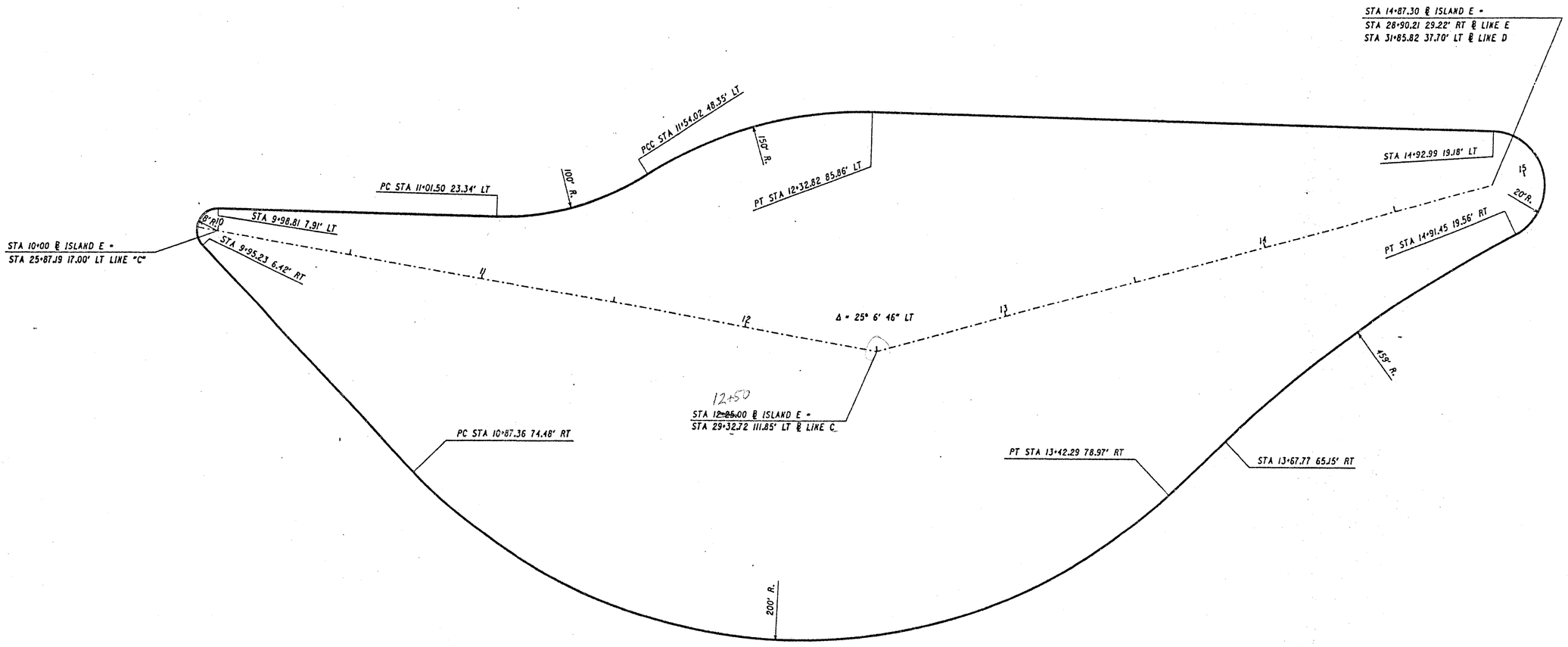


ISLAND D-1, D-2, D-3

ISLAND D-1 STATION EQUATIONS				
POINT	STATION	OFFSET	SIDE	ALIGNMENT
Y	21+89.28	18.34'	RT	LINE C
Z	23+52.09	101.54'	RT	LINE C
ISLAND D-2 STATION EQUATIONS				
POINT	STATION	OFFSET	SIDE	ALIGNMENT
Y	16+16.04	18.32'	LT	LINE U
Z	14+53.21	101.51'	LT	LINE U
ISLAND D-3 STATION EQUATIONS				
POINT	STATION	OFFSET	SIDE	ALIGNMENT
Y	20+34.06	18.32'	LT	LINE U
Z	18+71.23	101.53'	LT	LINE U

SEE SHEETS 36 AND 38 FOR PAVEMENT ELEVATIONS

CALC BY / DATE	PREBLE COUNTY	OHIO	42
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194



ISLAND E

SEE SHEET 36 FOR PAVEMENT ELEVATIONS

CALC BY / DATE	PREBLE COUNTY	OHIO	43
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194

STA 10+00 ℄ ISLAND F =
STA 26+06.38, 15.0' RT ℄ LINE "C"

Sta. 9+98.85, 5.89' LT

Sta. 9+96.65 4.98' RT.

6' R.

10+50

PC STA 10+49.32, 10.46' RT

PC STA 10+90.27 24.94' RT

216' R.

STA 13+51.49 ℄ ISLAND F =
STA 29+10.23, 17.27' RT ℄ LINE "C"

Sta. 13+50.48, 7.94' LT

8' R.

13+50

Sta. 13+56.64, 6.12' RT

13

12+50

11+50

Δ = 60° 59' 23" LT

12

PT STA 13+20, 35.12' RT

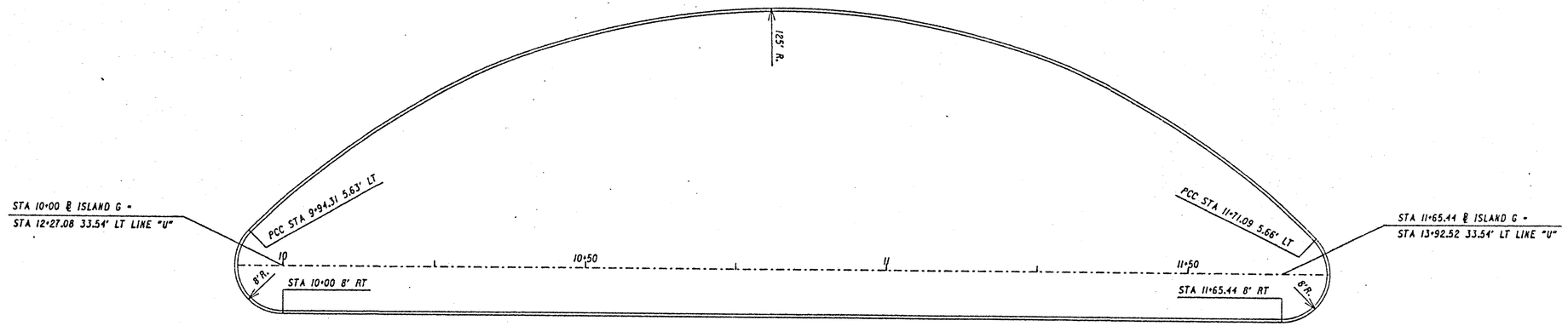
STA 11+75 ℄ ISLAND F =
STA 27+61.94, 59.70' RT ℄ LINE C

148' R.

ISLAND F

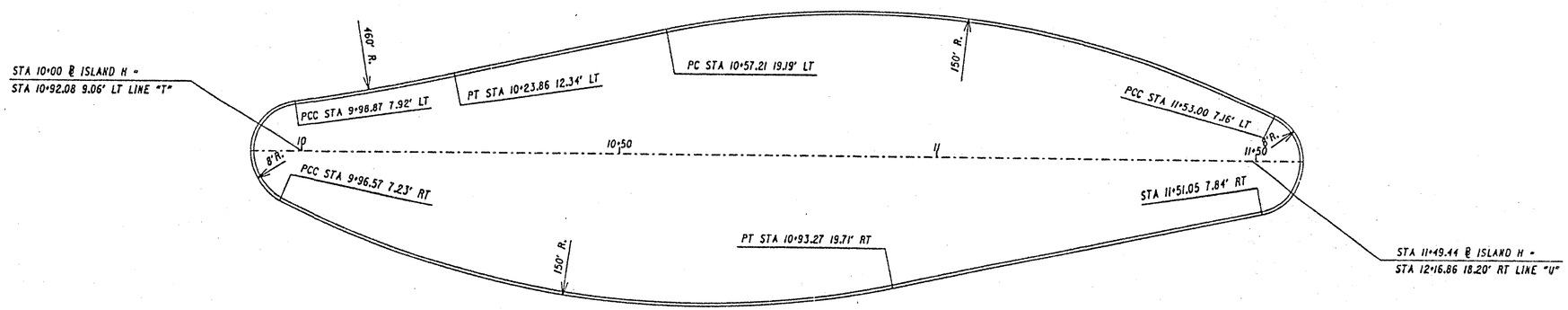
SEE SHEET 36 FOR PAVEMENT ELEVATIONS

CALC BY / DATE	PREBLE COUNTY	OHIO	44
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194



ISLAND G

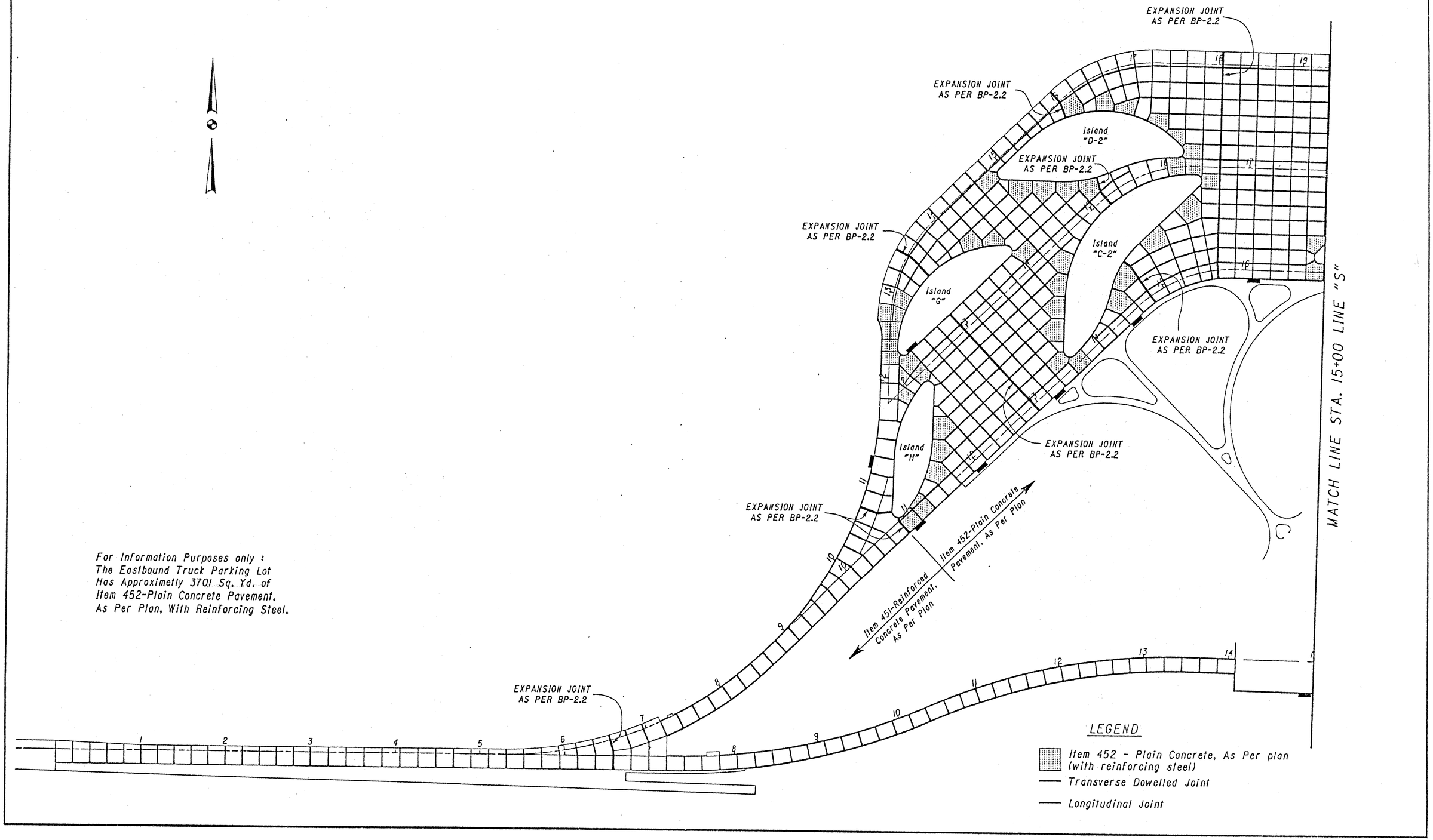
SEE SHEET 38 FOR PAVEMENT ELEVATIONS



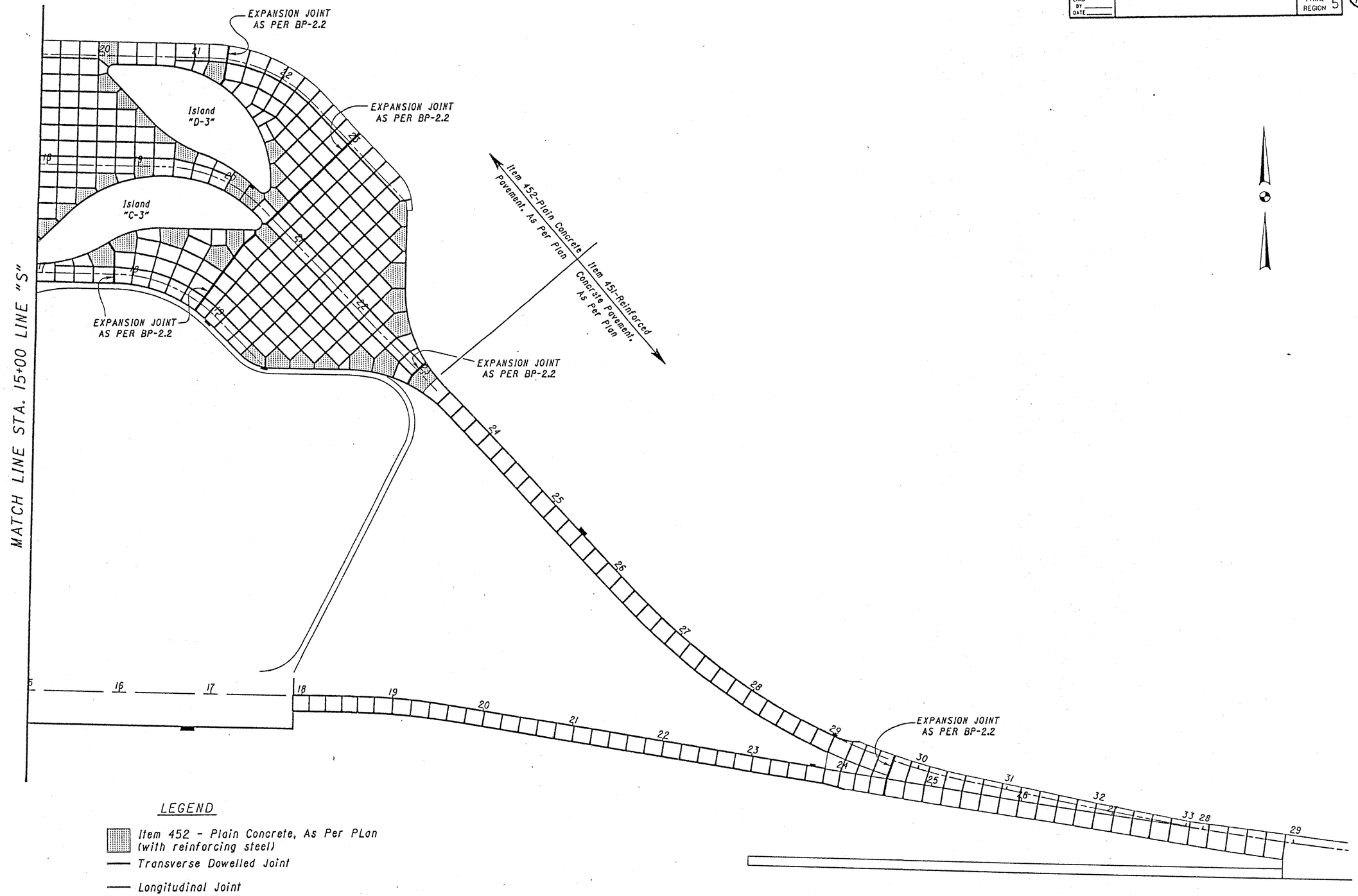
ISLAND H

SEE SHEET 38 FOR PAVEMENT ELEVATIONS

CALC BY DATE	PREBLE COUNTY PRE-70-2.41	OHIO FHWA REGION 5	45 194
CHKD BY DATE			



CALC BY DATE	PREBLE COUNTY	OHIO	46
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



WESTBOUND JOINT DETAILS

CALC BY DATE	PREBLE COUNTY	OHIO	47
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

PC 15+23.43 AH -
STA 15+23.19 BK

PT 20+10.38

EXPANSION JOINT AS PER BP-2.2

LEGEND

- Item 452-Plain Concrete, As Per Plan (with reinforcing steel)
- Transverse Dowelled Joint
- Longitudinal Joint

Item 451-Reinforced Concrete Pavement, As Per Plan

Item 452-Plain Concrete Pavement, As Per Plan

EXPANSION JOINT AS PER BP-2.2

EXPANSION JOINT AS PER BP-2.2

Island "A"

Island "B"

EXPANSION JOINT AS PER BP-2.2

EXPANSION JOINT AS PER BP-2.2

Island "C-1"

Island "D-1"

EXPANSION JOINT AS PER BP-2.2

EXPANSION JOINT AS PER BP-2.2

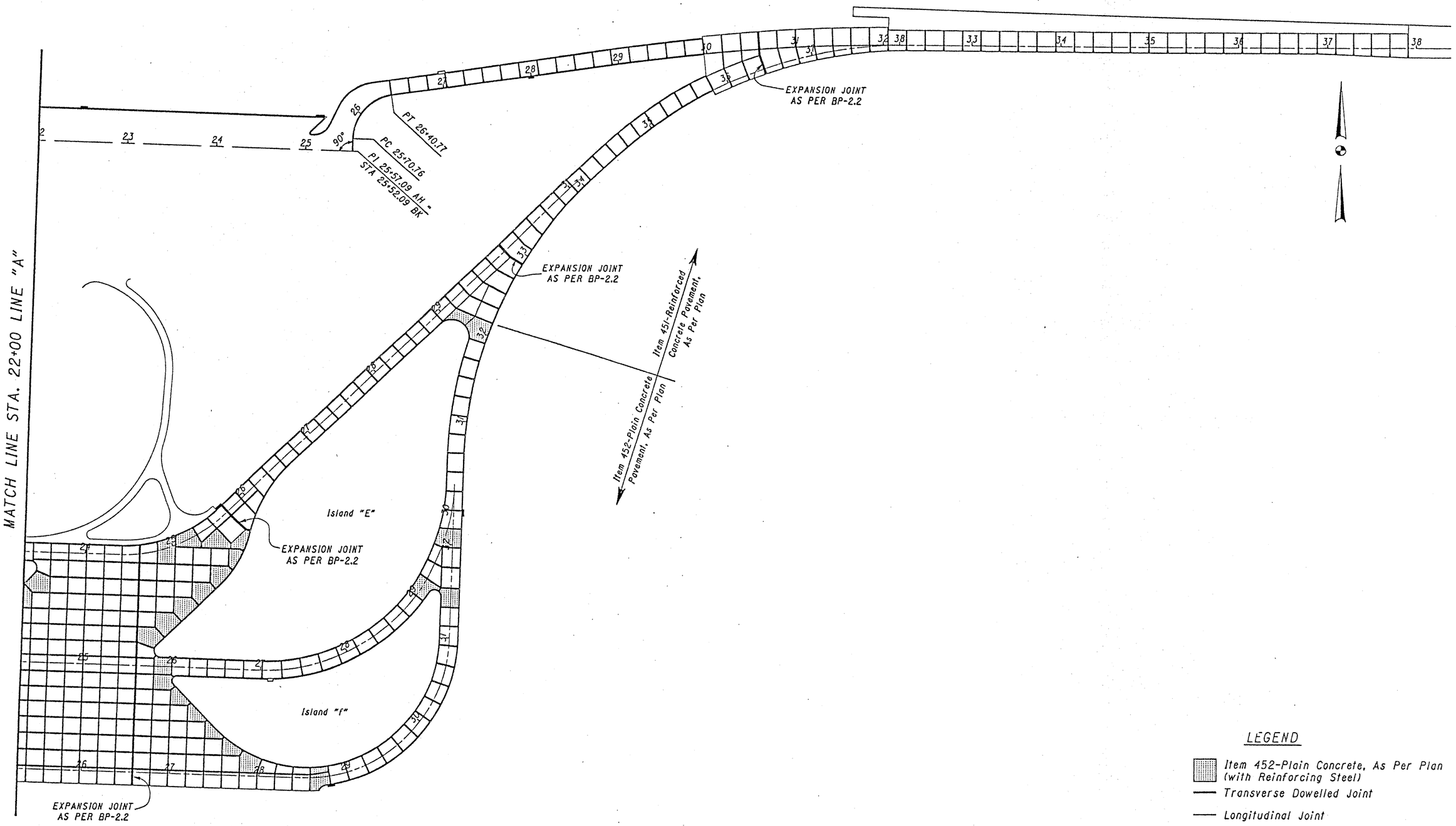
EXPANSION JOINT AS PER BP-2.2

MATCH LINE STA. 22+00 LINE "A"

For Information Purposes only :
The Westbound Truck Parking Lot
Has Approximetly 4254 Sq. Yd. of
Item 452-Plain Concrete Pavement,
As Per Plan, With Reinforcing Steel.

EASTBOUND JOINT DETAILS

CALC BY DATE	PREBLE COUNTY	OHIO	48
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

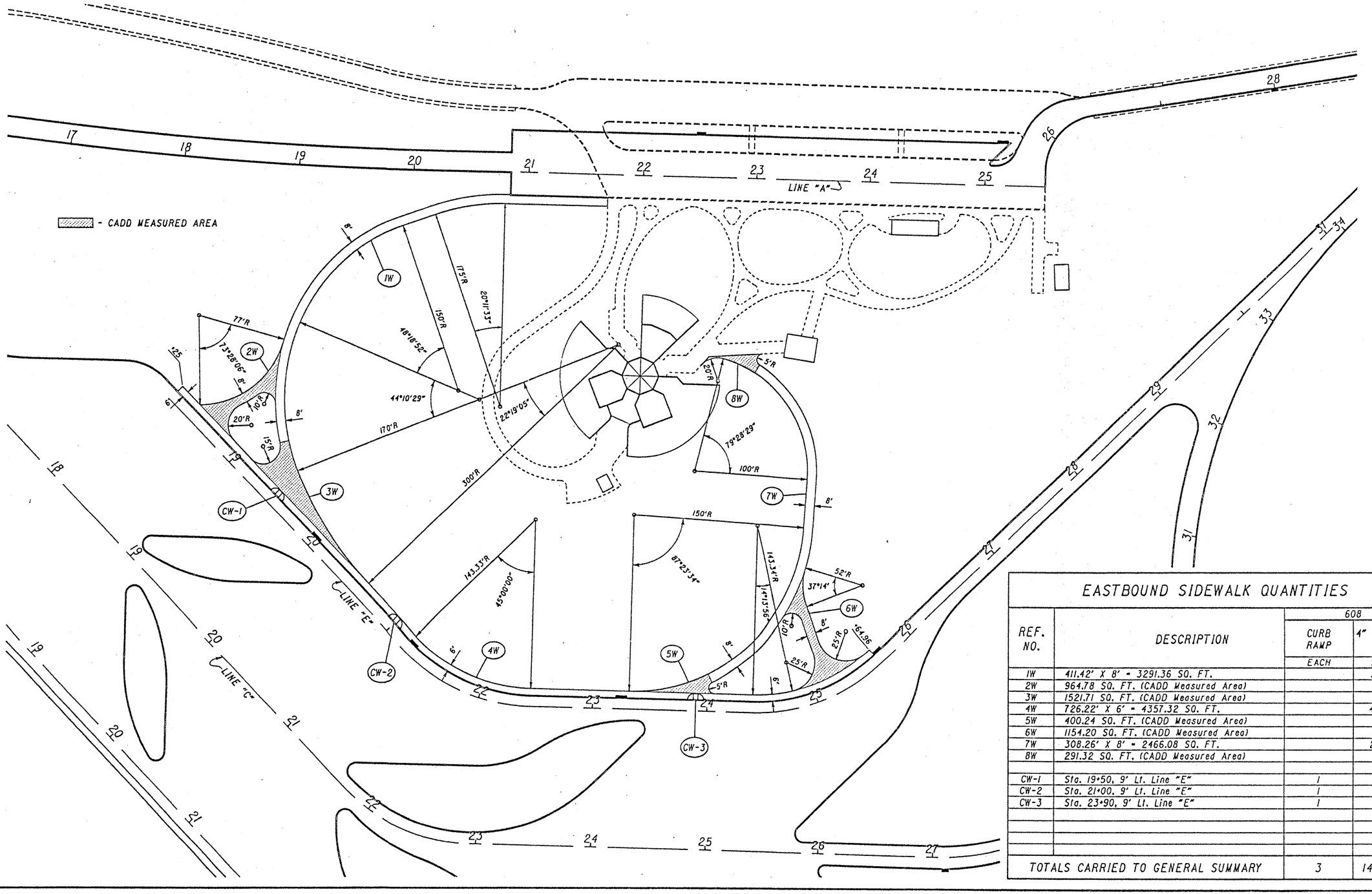


LEGEND

- Item 452-Plain Concrete, As Per Plan (with Reinforcing Steel)
- Transverse Dowelled Joint
- Longitudinal Joint

EASTBOUND JOINT DETAILS

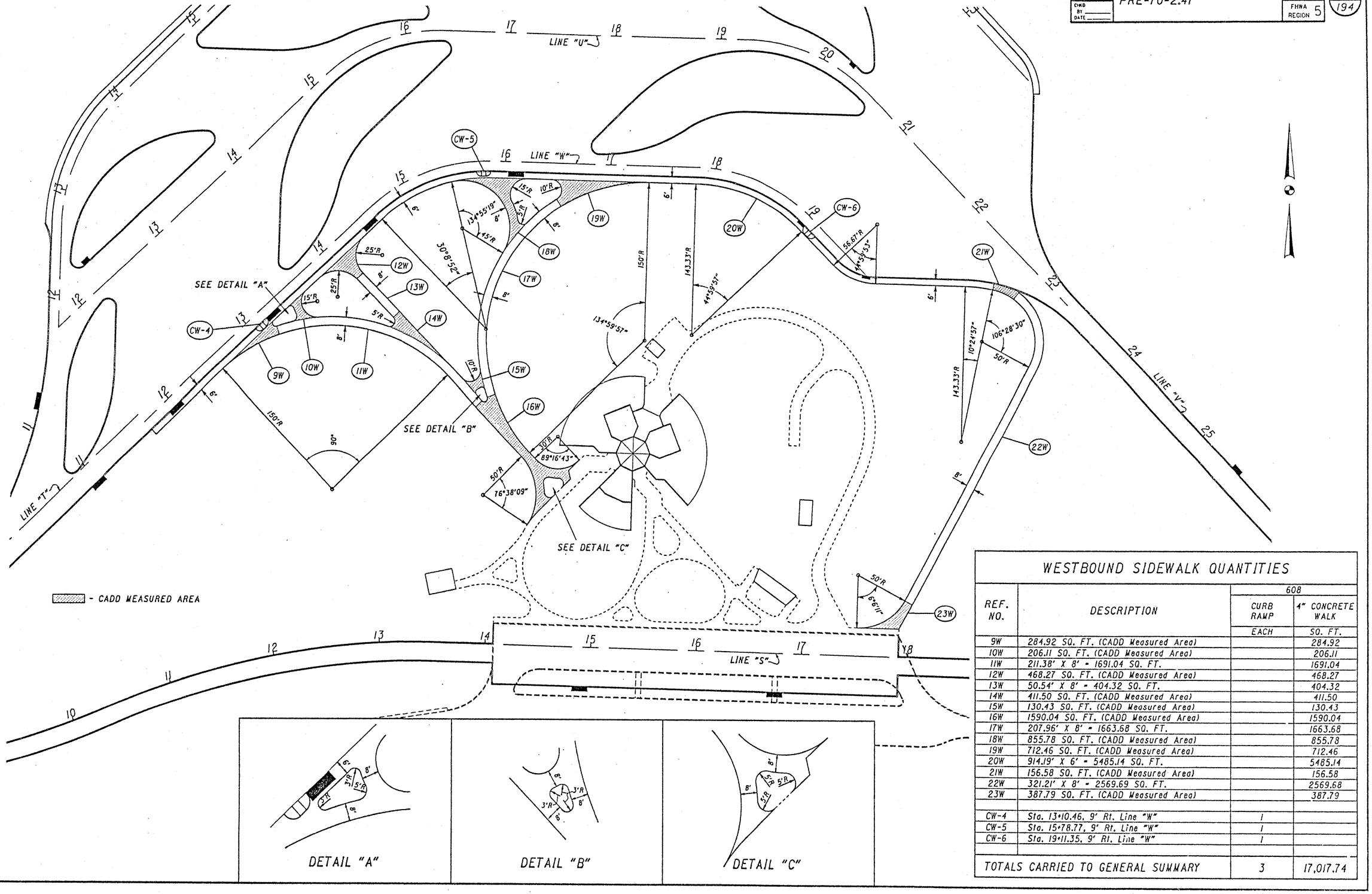
CALC BY ____ DATE ____	PREBLE COUNTY	OHIO	49
CHKD BY ____ DATE ____	PRE-70-2.41	FHWA REGION 5	194



EASTBOUND SIDEWALK QUANTITIES

REF. NO.	DESCRIPTION	608 CURB RAMP (EACH)	608 4" CONCRETE WALK (SQ. FT.)
1W	411.42' X 8' = 3291.36 SQ. FT.		3291.36
2W	964.78 SQ. FT. (CADD Measured Area)		964.78
3W	1521.71 SQ. FT. (CADD Measured Area)		1521.71
4W	726.22' X 6' = 4357.32 SQ. FT.		4357.32
5W	400.24 SQ. FT. (CADD Measured Area)		400.24
6W	1154.20 SQ. FT. (CADD Measured Area)		1154.20
7W	308.26' X 8' = 2466.08 SQ. FT.		2466.08
8W	291.32 SQ. FT. (CADD Measured Area)		291.26
CW-1	Sta. 19+50, 9' Lt. Line "E"	1	
CW-2	Sta. 21+00, 9' Lt. Line "E"	1	
CW-3	Sta. 23+90, 9' Lt. Line "E"	1	
TOTALS CARRIED TO GENERAL SUMMARY		3	14,446.95

CALC BY DATE	PREBLE COUNTY	OHIO	50
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



WESTBOUND SIDEWALK QUANTITIES

REF. NO.	DESCRIPTION	608 CURB RAMP EACH	608 4" CONCRETE WALK SQ. FT.
9W	284.92 SQ. FT. (CADD Measured Area)		284.92
10W	206.11 SQ. FT. (CADD Measured Area)		206.11
11W	211.38' X 8' = 1691.04 SQ. FT.		1691.04
12W	468.27 SQ. FT. (CADD Measured Area)		468.27
13W	50.54' X 8' = 404.32 SQ. FT.		404.32
14W	411.50 SQ. FT. (CADD Measured Area)		411.50
15W	130.43 SQ. FT. (CADD Measured Area)		130.43
16W	1590.04 SQ. FT. (CADD Measured Area)		1590.04
17W	207.96' X 8' = 1663.68 SQ. FT.		1663.68
18W	855.78 SQ. FT. (CADD Measured Area)		855.78
19W	712.46 SQ. FT. (CADD Measured Area)		712.46
20W	914.19' X 6' = 5485.14 SQ. FT.		5485.14
21W	156.58 SQ. FT. (CADD Measured Area)		156.58
22W	321.21' X 8' = 2569.69 SQ. FT.		2569.68
23W	387.79 SQ. FT. (CADD Measured Area)		387.79
CW-4	Sta. 13+10.46, 9' Rt. Line "W"	1	
CW-5	Sta. 15+78.77, 9' Rt. Line "W"	1	
CW-6	Sta. 19+11.35, 9' Rt. Line "W"	1	
TOTALS CARRIED TO GENERAL SUMMARY		3	17,017.74

CURB TABLE

REF NO.	SHEET NO.	STATION TO STATION	ITEM 609 TYPE 6 LIN. FT.	ITEM 609 TYPE 7 LIN. FT.	ITEM 202 CURB REMOVED LIN. FT.
		EASTBOUND REST AREA			
C-1	53	13+04, 19 LT Line "A" to 14+00, 16' LT Line "A"	97		
C-2	53	13+14 Line "A" to 14+00 Line "A"	86		
C-3	53	13+11.77, 18' LT Line "B" to 14+00, 18' LT Line "B"		91	
C-4	53	13+01.77, 6' RT Line "B" to 14+00 Line "B"		101	
C-5	54	14+00, 16' LT Line "A" to 20+84.97, 16' LT Line "A"	683		
C-6	54	14+00 Line "A" to 20+84.97 Line "A"	685		
C-7	54	20+84.97, 16' LT Line "A" to 27+00, 16' LT Line "A"	656		
C-8	54	20+84.97, Line "A" to 21+69.82, 19.5' RT Line "A"	105		
C-9	54	25+57.09 Line "A" to 27+00 Line "A"	143		
C-10	54	14+00, 18' LT Line "B" to 30+00, 9' LT Line "E"		1631	
C-11	54	14+00 Line "B" to 17+92.82, 117.13' RT Line "C"		434	
C-12	54	18+97.62, 20' LT Line "C" to 20+23.67, 98' LT Line "C"		325	
C-13	54	19+18.51, 20' RT Line "C" to 20+44.55 98' RT Line "C"		325	
C-14	54	21+61.14, 17' LT Line "C" to 24+44.92, 101.5' LT Line "C"		585	
C-15	54	21+83.47, 17.6' LT Line "C" to 23+60.09, 101.5 LT Line "C"		496	
C-16	54	25+79.19, 17' LT Line "C" to 32+04.25, 37.28' LT Line "D"		1146	
C-17	54	26+00, 17' RT Line "C" to 29+16.58, 19' RT Line "C"		810	
C-18	54	28+75, 19' RT Line "F" to 32+85.07 Line "D"		673	
CR-1	54	15+82.13, 137.89' LT Line "A" to 16+49.82, 148.08' LT Line "A"			65
CR-2	54	15+83.76, 127.21' LT Line "A" to 16+50.40, 124.94' LT Line "A"			64
CR-3	54	20+86.22, 71.82' LT Line "A" to 26+40.69, 16' LT Line "A"			508
CR-4	54	20+86.22, 55.81' LT Line "A" to 21+69.82, 19.5' RT Line "A"			120
CR-5	54	21+63.23, 45' LT Line "A" to 25+32.05, 45' LT Line "A"			762
CR-6	54	25+57.09, 19.5' RT Line "A" to 26+40.69 Line "A"			84
C-19	57	27+00, 16' LT Line "A" to 29+96.80, 16' LT Line "A"	298		
C-20	57	27+00 Line "A" to 29+96.80 Line "A"	297		
C-21	57	30+00, 9' LT Line "E" to 35+81.13, 18' LT Line "D"		300	
C-22	57	32+85.07 Line "D" to 35+81.13 Line "D"		297	
CR-7	57	30+34.25, 19' LT Line "A" to 36+73.97, 16.73' LT Line "A"			640
		WESTBOUND REST AREA			
C-23	60	7+18.41 Line "T" to 9+00 Line "T"		182	
C-24	60	7+18.41, 18' RT Line "T" to 9+00, 18' RT Line "T"		188	
C-25	60	7+20.28 Line "S" to 9+00 Line "S"	180		
C-26	60	8+10.85, 16' RT Line "S" to 9+00, 16' RT Line "S"	92		
CR-8	60	3+17.37, 20.6' RT Line "S" to 9+00, 36.61' RT Line "S"			590
C-27	61	9+00 Line "T" to 12+68.29, 19' LT Line "A"		394	
C-28	61	9+00, 18' RT Line "T" to 28+25, 18' RT Line "V"		1726	
C-29	61	12+19.08, 33.54' LT Line "U" to 14+00.52, 33.5' LT Line "U"		400	
C-30	61	10+84.08, 9.06' LT Line "T" to 12+24.86, 18.2' RT Line "U"		356	
C-31	61	14+45.21, 101.5' LT Line "U" to 16+23.22, 18.14' LT Line "U"		496	
C-32	61	13+60.32, 101.5 RT Line "U" to 16+44.12, 17' RT Line "U"		585	
C-33	61	18+63.23, 101.5' LT Line "U" to 20+41.23, 18.14' LT Line "U"		496	
C-34	61	17+78.46, 101.5' RT Line "U" to 20+62.23, 17' RT Line "U"		585	
C-35	61	21+59.5, 112.85' LT Line "U" to 28+25 Line "V"		702	
C-36	61	9+00 Line "S" to 14+07.95, 19.5' LT Line "S"	526		
C-37	61	9+00, 16' RT Line "S"to 14+07.95, 16' RT Line "S"	503		
C-38	61	14+07.95, 16' RT Line "S" to 17+90.25, 16' RT Line "S"	422		
C-39	61	17+90.25, 19.5' LT Line "S" to 23+00 Line "S"	510		
C-40	61	17+90.25, 16' RT Line "S" to 23+00, 16' RT Line "S"	508		
CR-9	61	9+00, 36.61' RT Line "S" to 9+47.36, 45.64' RT Line "S"			51
CR-10	61	13+44.97, 82.67' RT Line "S" to 18+74.96, 71.61' RT Line "S"			530
CR-11	61	13+66.45, 62.91' RT Line "S" to 14+07.95, 19.5' LT Line "S"			102
CR-12	61	14+27.95, 45' RT Line "S" to 17+96.81, 45' RT Line "S"			758
CR-13	61	17+90.25, 19.5' LT Line "S" to 18+74.96, 55.61' RT Line "S"			120
C-41	64	28+25 Line "V" to 29+30.29, 6' LT Line "V"		99	
C-42	64	28+25, 18' RT Line "V" to 29+02.70, 18' RT Line "V"		72	
C-43	64	23+00 Line "S" to 23+81.89 Line "S"	82		
C-44	64	23+00, 16' RT Line "S" to 24+06.89, 19' RT Line "S"	108		
CR-14	64	23+12.14, 87.54' RT Line "S" to 23+77.64, 88.42' RT Line "S"			66
CR-15	64	23+14.13, 110.54' RT Line "S" to 23+79.09, 98.58' RT Line "S"			66
TOTAL CARRIED TO GENERAL SUMMARY			5,981	13,495	4,526

FENCE

REF NO.	SHEET NO.	STATION TO STATION	ITEM 202 FENCE REMOVED	ITEM 607 FENCE, TYPE 47RA
			L. F.	L. F.
F-1	53	6+6.34, 62.6' RT Line "A" to 14+00, 119.8' LT Line "B"		788
FR-1	53	6+6.34, 62.6' RT Line "A" to 14+00, 24.5' LT Line "A"	796	
F-2	54	14+00, 119.8' RT Line "B" to 32+85.07, 205.35' RT Line "D"		2,377
FR-2	54	14+00, 24.5' LT Line "A" to 32+85.07, 160.78' RT Line "D"	1,880	
F-3	57	32+85.07, 205.35' RT Line "D" to 36+53.75, 117.5' RT Line "D"		317
FR-3	57	32+85.07, 205.35' RT Line "D" to 36+53.75, 117.5' RT Line "D"	415	
F-4	60	98+28.84, 36.52' LT "S" to 9+00, 161.9' LT LINE "S"		1,052
FR-4	60	98+28.84, 36.52' LT "S" to 9+00, 25.4' RT LINE "S"	1,072	
F-5	61	9+00, 161.9' LT Line "T" to 28+25, 121' LT Line "V"		2,378
FR-5	61	9+00, 25.4' RT Line "T" to 23+00, 22.6' LT Line "S"	2,040	
F-6	64	28+25, 121' LT Line "V" to 34+88.9, 49.2' LT Line "S"		1,150
FR-6	64	23+00, 22.6' LT Line "S" to 34+88.9, 49.2' LT Line "S"	1,227	
TOTAL CARRIED TO GENERAL SUMMARY			7,430	8,062

PAVEMENT REMOVED

REF. NO.	SHEET NO.	STATION TO STATION	ITEM 202 PAVEMENT REMOVED
			SQ. YD.
PR-1	53	0+00 LINE "A" TO 14+00 LINE "A"	953
PR-2	53	10+57.98, 15.44' RT LINE "A" TO 10+67.22, 144.98' RT LINE "A" (ELKHORN ROAD)	168
PR-3	54	14+00 LINE "A" TO 27+00 LINE "A"	3569
PR-4	57	27+00 LINE "A" TO 39+00 LINE "A"	2297
PR-5	58	39+00 LINE "A" TO 49+70.66 LINE "A"	1065
PR-6	59	87+99.74 LINE "S" TO 97+00 LINE "S"	393
PR-7	60	97+00 LINE "S" TO 9+00 LINE "S"	2326
PR-8	61	9+00 LINE "S" TO 23+00 LINE "S"	3618
PR-9	64	23+00 LINE "S" TO 36+94.93 LINE "S"	1860
TOTAL CARRIED TO GENERAL SUMMARY			16,249

GUARDRAIL

REF. NO.	SHEET NO.	STATION TO STATION	ITEM 202 GUARDRAIL REMOVED	ITEM 606 GUARDRAIL TYPE 5	ITEM 606 ANCHOR ASSEMBLY TYPE A	ITEM 606 ANCHOR ASSEMBLY TYPE T	ITEM 606 FLARED END SECTION
			LIN. FT.	LIN. FT.	EACH	EACH	EACH
GR-1	53	10+42 LINE "A" TO 10+72 LINE "A"	30				
G-1	53	10+52.05, 81.58' RT LINE "A" TO 10+82.96, 77' RT LINE "A"		31.25			2
GR-2	54, 57	26+40 LINE "A" TO 27+54 LINE "A"	112				
G-2	54, 57	25+57.09, 11.33' RT LINE "A" TO 27+33.26, 8' RT LINE "A"		150**	1	1	
GR-3	58	43+66 LINE "A" TO 44+97 LINE "A"	131				
GR-4	64	30+90 LINE "S" TO 31+86 LINE "S"	96				
TOTALS CARRIED TO GENERAL SUMMARY			369	181.25	1	1	2

** THIS QUANTITY INCLUDES 62.5' OF CURVED GUARDRAIL WITH A 42' RADIUS.

EARTHWORK

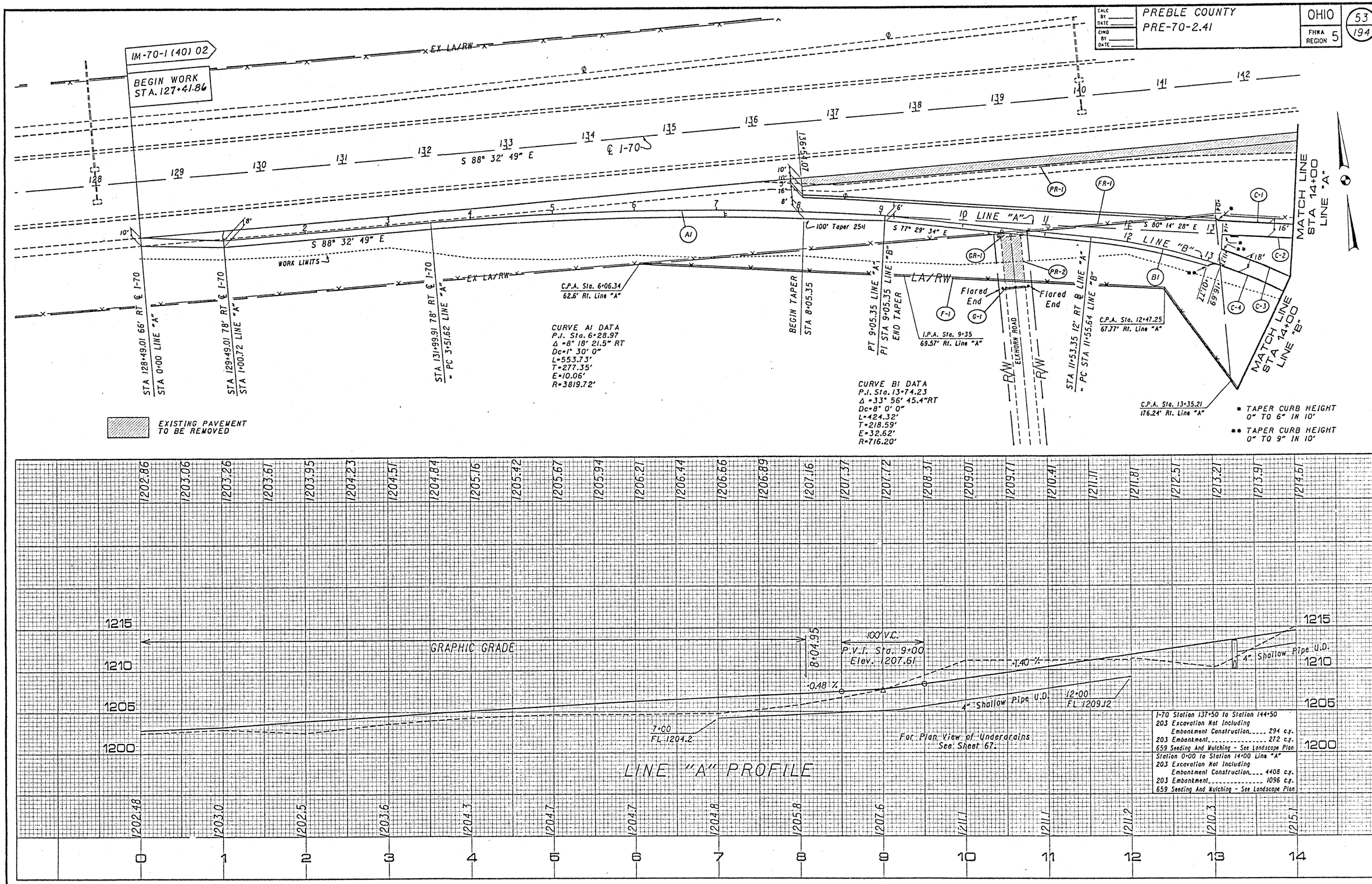
SHEET NO.	203	
	EXCAVATION	EMBANKMENT
	CU. YDS.	CU. YDS.
53	294	272
53	4408	1096
55	191	563
55	605	11,139
56	9042	12,537
56	8796	26,613
57	1080	951
58	1173	922
59	779	273
60	5010	1468
62	9532	4441
62	2900	315
63	26,307	19,579
63	9377	228
64	26,214	760
64	221	316
TOTAL	105,929	81,473

FENCE ASSEMBLY*

SHEET NO.	CORNER POST ASSEMBLY	INTERMEDIATE POST ASSEMBLY
53	3	1
54	5	1
57	1	0
60	1	0
61	6	0
64	3	1
TOTAL	19	3

*FOR INFORMATIONAL USE ONLY

PREBLE COUNTY
PRE-70-2.41
OHIO
FHWA REGION 5
53
194



I-70 Station 137+50 to Station 144+50
203 Excavation Not Including Embankment Construction ..... 294 c.y.
203 Embankment ..... 272 c.y.
659 Seeding And Mulching - See Landscape Plan

Station 0+00 to Station 14+00 Line "A"
203 Excavation Not Including Embankment Construction ..... 4408 c.y.
203 Embankment ..... 1096 c.y.
659 Seeding And Mulching - See Landscape Plan

CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

54
194

EASTBOUND LANE I-70

STA 145+03.86
66' RT ℄ I-70

MATCH LINE STA 14+00 LINE "A"

MATCH LINE STA 14+00 LINE "B"

PC 15+23.43 AH = STA 15+23.19 BK

PT 20+10.38

SEE SHEET 34 FOR PARKING LOT DETAILS

MATCH LINE STA 27+00 LINE "A"

PT 26+40.77

PC 25+70.76

PI 25+57.09 AH
STA 25+52.09 BK

S 88° 32' 49" E

LINE "B"

EX R/W

PT 15+79.96

WORK LIMITS

STA 15+79.96 LINE "C"
STA 15+79.96 9' LT ℄ LINE "B"

STA 18+25 LINE "E"
STA 18+25 118.50' LT ℄ LINE "C"

SEE SHEET 49 FOR SIDEWALK DETAILS

S 43° 32' 49" E

+84.97

+32.42

+38.66

EX LA/RW

N 46° 27' 11" E

MATCH LINE STA 32+86.07 LINE "E"
STA 30+00 LINE "D"

LINE "D"

PC 30+58.65

PT 30+29.68 LINE "C"
PI 32+67.51 LINE "F"

STA 30+29.68 LINE "D"
STA 30+29.68 9' RT ℄ LINE "C"

N 1° 27' 11" E

SEE SHEET 40 FOR ISLAND A DETAILS

SEE SHEET 40 FOR ISLAND B DETAILS

SEE SHEET 41 FOR ISLAND C-1 DETAILS

SEE SHEET 41 FOR ISLAND D-1 DETAILS

SEE SHEET 42 FOR ISLAND E DETAILS

SEE SHEET 43 FOR ISLAND F DETAILS

LINE "C"

LINE "E"

LINE "F"

PC 21+20.93

PT 22+45.81

PC 21+70.03

PT 22+94.90

PC 22+16.20

PT 23+46.58

PC 27+01.38

PT 30+99.01

PC 28+49.25

END CURB 17+92.82 117.13' RT ℄ LINE "C"

STA 18+25 LINE "F"
STA 18+25 118.50' RT ℄ LINE "C"

C.P.A. Sta. 17+40.96
236.29' Rt. Line "C"

C.P.A. Sta. 22+33.33
267.80' Rt. Line "C"

I.P.A. Sta. 26+50
117.37' Rt. Line "C"

C.P.A. Sta. 27+98.82
289.39' Rt. Line "C"

C.P.A. Sta. 31+78.70
90.02' Rt. Line "F"

LA/RW

WORK LIMITS

150'R

50'R

CURVE A2 DATA
P.I. Sta. 17+67.09
Δ = 8° 18' 21.5" LT
Dc=1° 42' 20.6"
L=486.95'
T=243.90'
E=8.84'
R=3359.04'

CURVE A3 DATA
P.I. Sta. 26+12.88
Δ = 80° 13' 37.8" RT
Dc=114° 35' 29.6"
L=70.01'
T=42.12'
E=15.38'
R=50.00'

CURVE B1 DATA
P.I. Sta. 13+74.23
Δ = 33° 56' 45.4" RT
Dc=8° 0' 0"
L=424.32'
T=218.59'
E=32.62'
R=716.20'

CURVE C1 DATA
P.I. Sta. 22+35.88
Δ = 45° 0' 0" LT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE C2 DATA
P.I. Sta. 29+10.38
Δ = 90° 0' 0" LT
Dc=27° 24' 51.3"
L=328.30'
T=209.00'
E=86.57'
R=209.00'

CURVE D1 DATA
P.I. Sta. 32+41.32
Δ = 45° 0' 0" RT
Dc=12° 59' 32"
L=346.36'
T=182.67'
E=36.34'
R=441.00'

CURVE E1 DATA
P.I. Sta. 21+86.79
Δ = 45° 0' 0" LT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE E2 DATA
P.I. Sta. 25+06.35
Δ = 45° 0' 0" LT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE F1 DATA
P.I. Sta. 22+84.96
Δ = 45° 0' 0" LT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

CURVE F2 DATA
P.I. Sta. 30+08.25
Δ = 90° 0' 0" LT
Dc=36° 2' 6.3"
L=249.76'
T=159.00'
E=65.86'
R=159.00'

PROPOSED SIDEWALK

EXISTING PAVEMENT TO BE REMOVED

EXISTING PAVEMENT TO BE PLANED

* TAPER CURB HEIGHT 6" TO 0" IN 10'

** TAPER CURB HEIGHT 0" TO 6" IN 10'

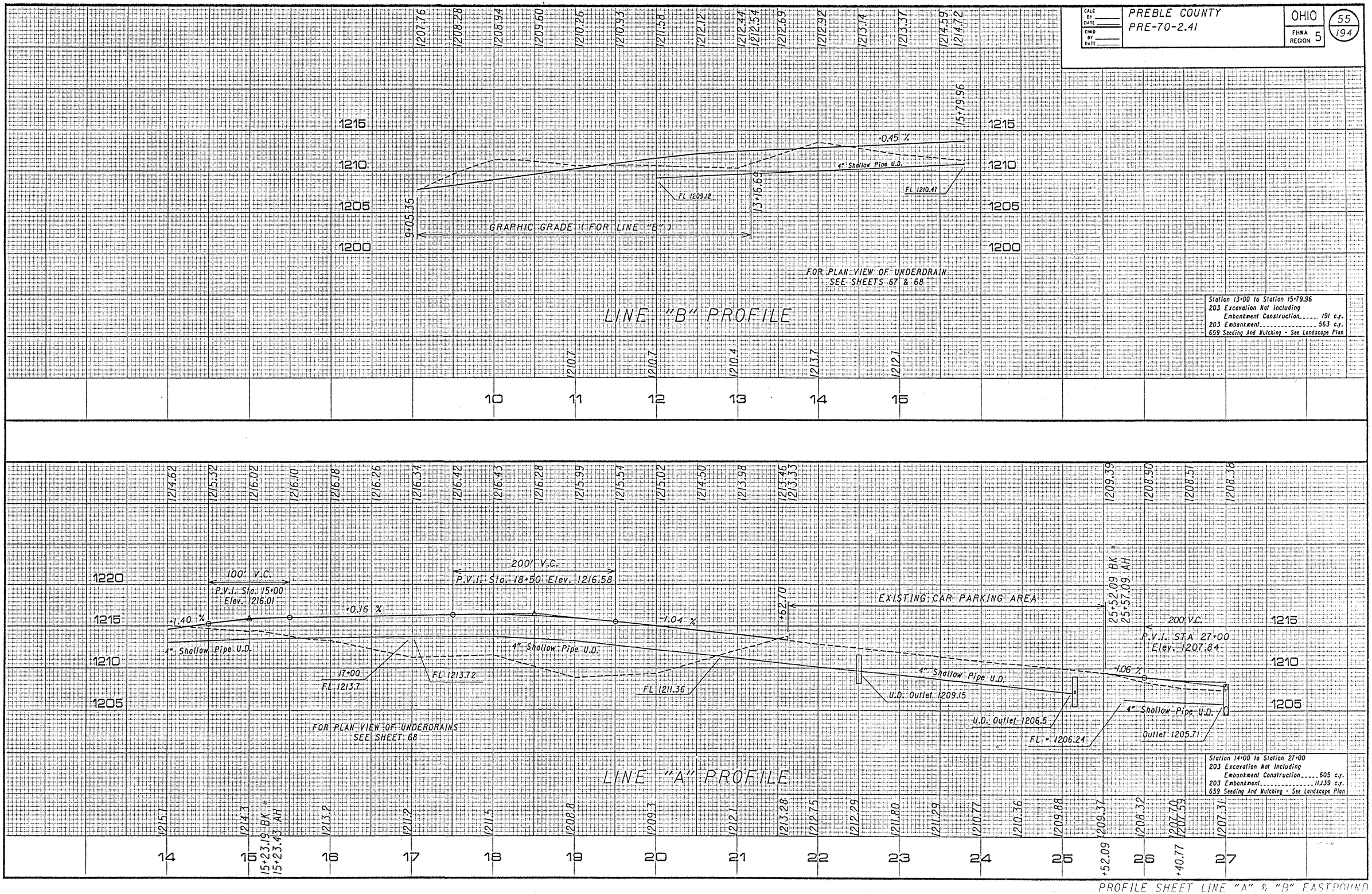
PLAN SHEET STA. 14+00 TO 27+00 LINE "A" EASTBOUND

CALC BY DATE
CHKD BY DATE

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

55
194



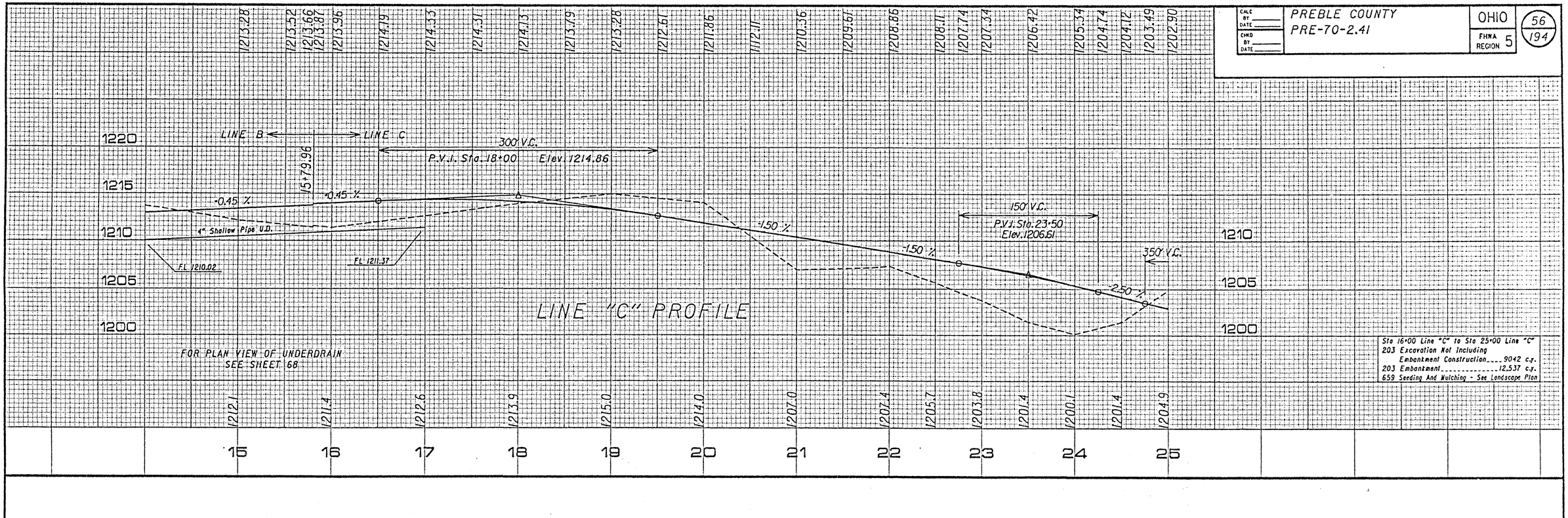
PROFILE SHEET LINE "A" & "B" EASTBOUND

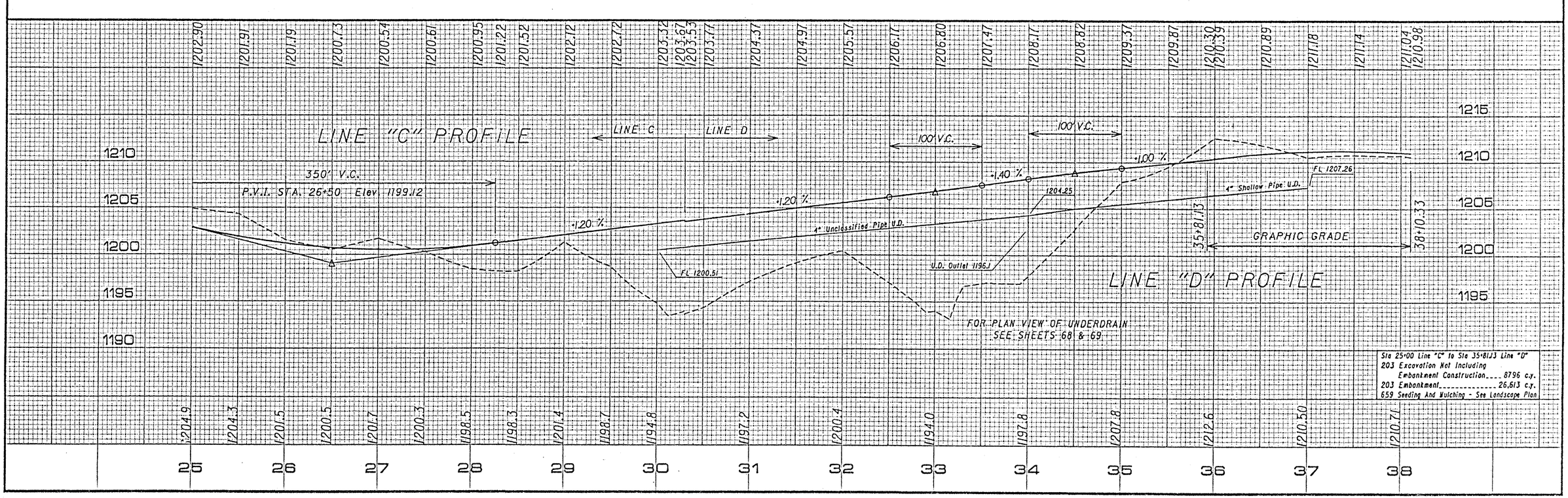
CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

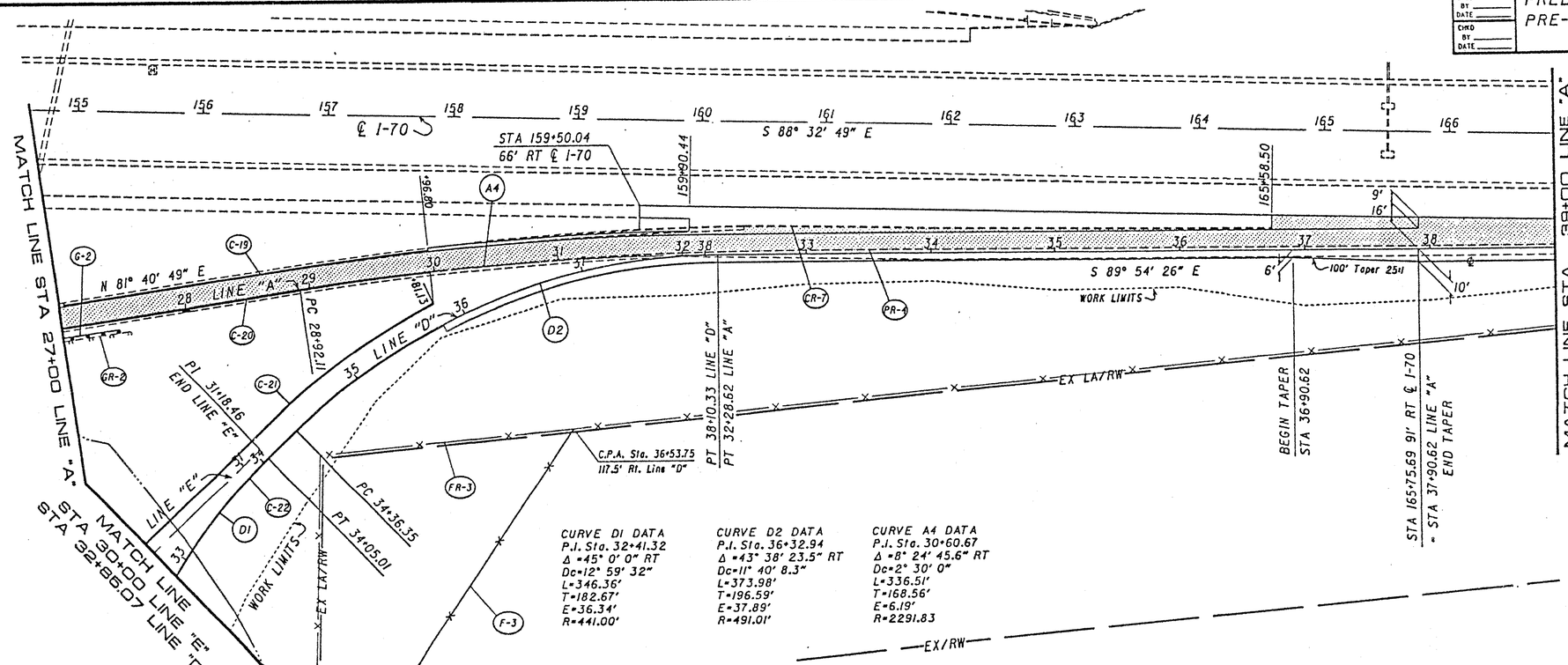
56
194





PROFILE SHEET LINE "C" & "D" EASTBOUND

CALC BY / DATE	PREBLE COUNTY PRE-70-2.41	OHIO FHWA REGION 5	57 194
CHKD BY / DATE			



Station 27+00 to Station 39+00	
203 Excavation Not Including Embankment Construction	1080 c.y.
203 Embankment	951 c.y.
659 Seeding And Mulching - See Landscape Plan	

LINE "A" PROFILE

PLAN AND PROFILE STA 27+00 TO 39+00 LINE "A" EASTBOUND

CALC BY DATE
CHKD BY DATE

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

58
194

END WORK
STA. 177+56.21
S.L.M. 3.36

IM-70-1 (40) 02

MATCH LINE STA. 38+00 LINE "A"

EX LA/RW

PI 167+21.59

167 168 169 170 171 172 173 174 175 176 177 178 179

℄ I-70

36" Conc.

S 88° 42' 49" E

STA 177+04.14 BK =
STA 177+05.14 AH

27" Conc.

40 41 42 43 44 45 46 47 48 49

S 89° 54' 26" E

PR-5

PR-3

WORK LIMITS

EX LA/RW

STA 177+56.21 66' RT ℄ I-70
STA 49+70.66 LINE "A"

EXISTING PAVEMENT TO BE REMOVED

1201.98 1200.56 1199.20 1197.84 1196.44 1195.08 1193.75 1192.44 1191.04 1189.66 1188.33 1187.57

GRAPHIC GRADE

1205
1200
1195
1190
1185

1" Shallow Pipe U.D.

FL 1194.51
U.D. Outlet 1193.6

1" Shallow Pipe U.D.

FL 1190.42
U.D. Outlet 1186.0

1" Shallow Pipe U.D.

FL 1185.0
U.D. Outlet 1183.0

FOR PLAN VIEW OF UNDERDRAINS SEE SHEET 69

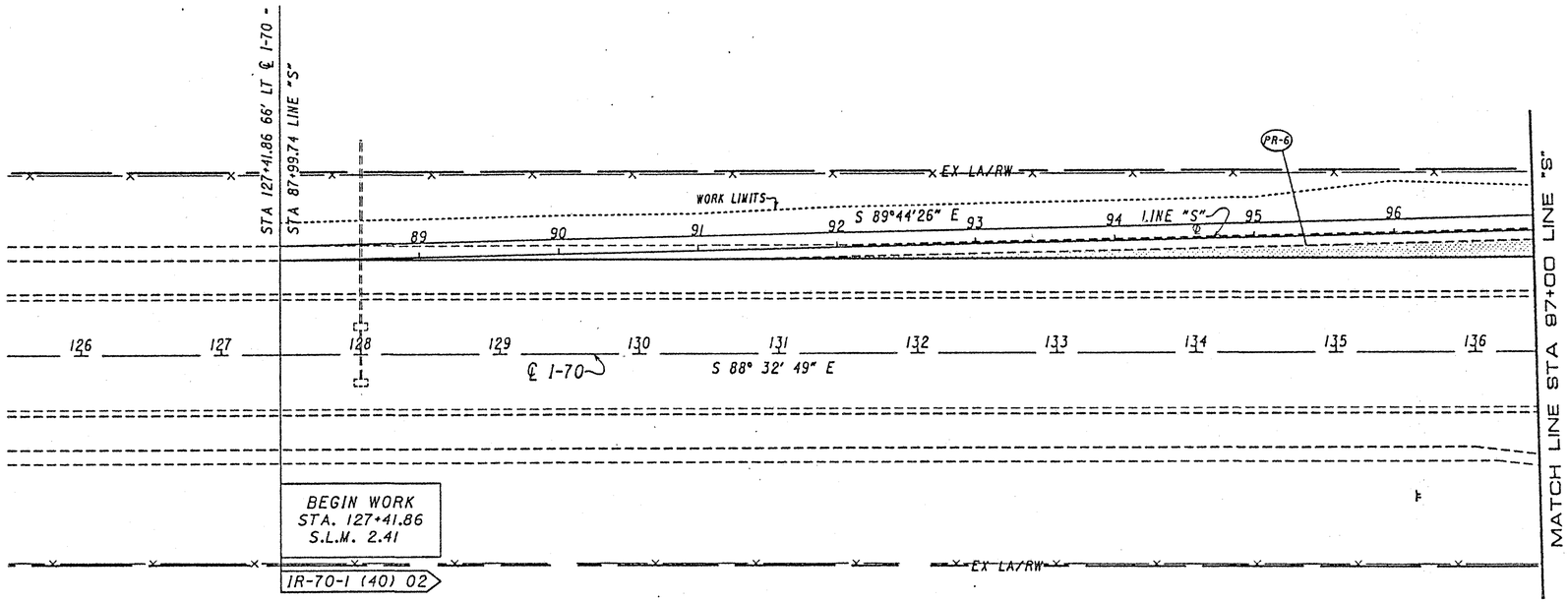
LINE "A" PROFILE

1201.48 1200.15 1198.79 1197.45 1196.02 1194.74 1193.37 1192.00 1190.56 1189.24 1187.90

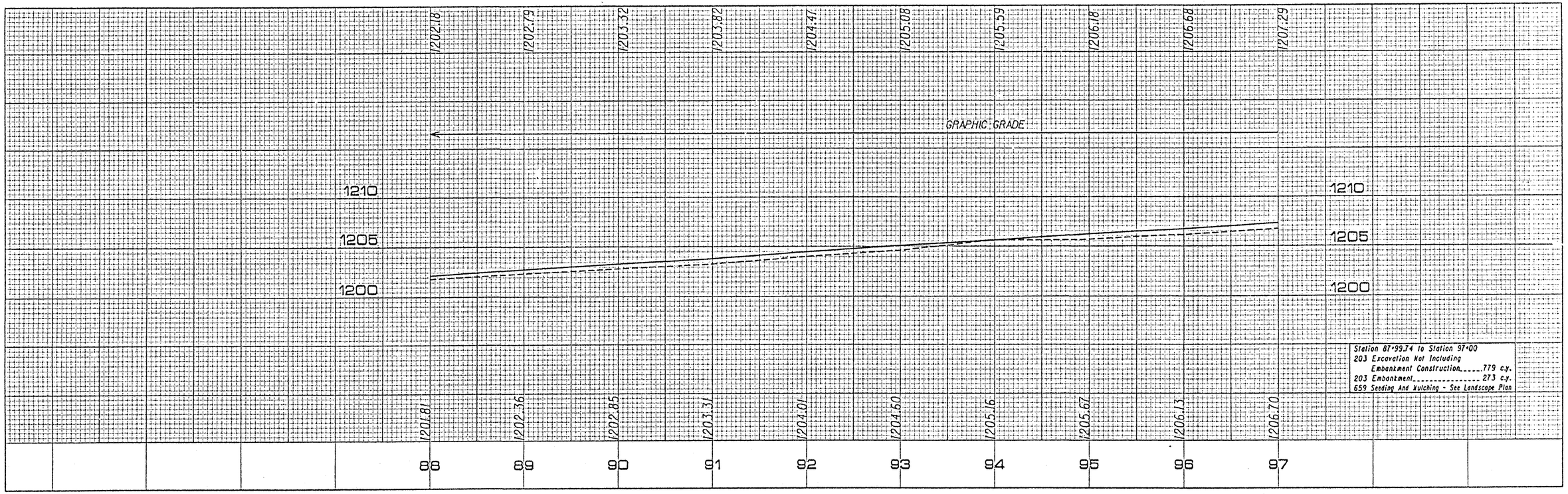
39 40 41 42 43 44 45 46 47 48 49

Station 39+00 to Station 49+70.66 Line "A"
203 Excavation Not Including Embankment Construction ..... 1173 c.y.
203 Embankment ..... 922 c.y.
659 Seeding And Mulching - See Landscape Plan

CALC BY DATE	PREBLE COUNTY	OHIO	59
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



EXISTING PAVEMENT TO BE REMOVED



Station 87+99.74 to Station 97+00
203 Excavation Not Including Embankment Construction..... 779 c.y.
203 Embankment..... 273 c.y.
659 Seeding And Mulching - See Landscape Plan

PLAN AND PROFILE STA. 87+99.74 TO 97+00 LINE "S" WESTBOUND

CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

60
194

CURVE S1 DATA
P.I. Sta. 8+88.06
Δ =24° 0' 22.7"LT
Dc=8° 0' 0"
L=300.08'
T=152.28'
E=16.01'
R=716.20'

CURVE T1 DATA
P.I. Sta. 7+04.72
Δ =43° 48' 23.9"LT
Dc=12° 59' 32.1"
L=337.18'
T=177.31'
E=34.31'
R=441.00'

MATCH LINE STA 97+00 LINE "S"

ELKHORN ROAD

RW

STA 100+00 LINE "S" BK =
STA 0+00 LINE "S" AH =
STA 139+41.86 91' LT ℄ I-70

C.P.A. Sta. 98+29.60
72.99' Lt. Line "S"

C.P.A. Sta. 98+28.84
36.52' Lt. Line "S"

LA/RW

EX LA/RW

C.P.A. Sta. 2+04.51
65.18' Lt. Line "S"

F-1

FR-4

WORK LIMITS

PC 5+27.41 LINE "T" =
STA 5+27.41 ℄ LINE "S"

C.P.A. Sta. 6+96.61
82.71' Lt. Line "T"

C-23

STA MATCH LINE S+00 LINE "T"

PC 8+83.41 LINE "Y" =
STA 8+83.41 LINE "T"

PT 8+64.58

C-24

18' ℄ LINE "T"

PC 7+35.79

S1

C-25

MATCH LINE STA S+00 LINE "S"

T1

PR-7

CR-8

S 89°44'26" E 98

99

10'
16'

100' Taper 12511

6'

2 LINE "S" 3 4 5 6 7 8

24.5'
16'

3'
10'

172.13

120.28

C-26

137 138 139 140 141 142 143 144 145 146 147 148

℄ I-70

S 88° 32' 49" E

STA 147+67.35
63.88' Lt ℄ I-70

EXISTING PAVEMENT TO BE REMOVED

1207.29 1207.90 1208.37 1209.05 1209.39 1209.73 1210.07 1210.41 1210.75 1211.09 1211.43 1211.77 1212.11 1212.45 1212.79 1213.13 1213.47 1213.81 1214.15 1214.49 1214.83 1215.17

GRAPHIC GRADE

1215
1210
1205
1200

+0.68 %

4" Unclassified Pipe U.D.
1+00
FL 1206.88

4" Unclassified Pipe U.D.
4+00
FL 1208.2

4" Shallow Pipe U.D.
7+24
FL 1210.20

4" Unclassified Pipe U.D.
7+75
FL 1211.74

For Plan View Of Underdrains See Sheet 70.

Station 97+00 to Station 9+00
203 Excavation Not Including Embankment Construction.....5010 c.y.
203 Embankment.....1468 c.y.
659 Seeding And Mulching - See Landscape Plan

1206.70 1207.32 1207.92 1208.35 1208.98 1209.64 1210.17 1210.76 1211.21 1211.85 1212.47 1213.00 1213.0

97 98 99 0 1 2 3 4 6 6 7 8 9

PLAN AND PROFILE STA. 97+00 TO 9+00 LINE "S" WESTBOUND

CALC BY DATE
CHKD BY DATE

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

61
194

CURVE S1 DATA
P.I. Sta. 8+88.06
Δ =24° 0' 22.7"LT
Dc=8° 0' 0"
L=300.08'
T=152.28'
E=16.01'
R=716.20'

CURVE S2 DATA
P.I. Sta. 11+97.48
Δ =25° 12' 1.8" RT
Dc=8° 0' 0"
L=315.01'
T=160.09'
E=17.67'
R=716.20'

CURVE S3 DATA
P.I. Sta. 19+11.22
Δ =8° 8' 22.5"RT
Dc=8° 0' 0"
L=101.74'
T=51.96'
E=1.81'
R=716.20'

CURVE U1 DATA
P.I. Sta. 15+76.25
Δ =45° 0' 0" RT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE U2 DATA
P.I. Sta. 19+94.31
Δ =45° 0' 0" RT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE V1 DATA
P.I. Sta. 28+51.96
Δ =34° 6' 44.9"LT
Dc=8° 0' 0"
L=426.41'
T=219.73'
E=32.95'
R=716.20'

CURVE W1 DATA
P.I. Sta. 15+27.17
Δ =45° 0' 0" RT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE W2 DATA
P.I. Sta. 18+47.06
Δ =45° 0' 0" RT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE Y1 DATA
P.I. Sta. 10+47.25
Δ =45° 0' 0" LT
Dc=14° 29' 6.5"
L=310.66'
T=163.84'
E=32.59'
R=395.55'

CURVE X1 DATA
P.I. Sta. 13+37.05
Δ =45° 0' 0" RT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

CURVE X2 DATA
P.I. Sta. 16+67.28
Δ =45° 0' 0" RT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

CURVE X3 DATA
P.I. Sta. 21+83.20
Δ =45° 0' 0" RT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

EXISTING PAVEMENT TO BE REMOVED

EXISTING PAVEMENT TO BE PLANED

PROPOSED SIDEWALK

C.P.A. Sta. 15+65.22
264.42' Rt. Line "U"

C.P.A. Sta. 19+85.06
249.62' Lt. Line "U"

C.P.A. Sta. 12+91.62
218.37' Lt. Line "U"

C.P.A. Sta. 22+56.00
191.79' Lt. Line "U"

C.P.A. Sta. 23+68.09
70.83' Lt. Line "Y"

C.P.A. Sta. 27+03.66
68.16' Lt. Line "Y"

LA/RW

EX LA/RW

EX R/W

WORK LIMITS

LINE "X"

LINE "U"

LINE "T"

LINE "Y"

LINE "V"

LINE "S"

S 88° 32' 49" E

N 46° 27' 11" E

S 43° 32' 49" E

S 80° 24' 26" E

PC 15+98.52

PT 17+28.90

PC 16+35.27

PT 13+98.67

PC 15+10.39

PT 19+28.45

PC 21+14.44

PT 22+44.82

PI 23+90.43

PC 12+68.29

PC 14+61.31

PT 15+86.19

PC 17+81.20

PT 19+06.08

PI 19+78.70

PC 10+37.39

PT 13+52.40

PC 18+60.26

PT 19+62

PC 26+32.23

150'R

STA 11+69.47
109.35' LT & LINE "T" -
STA 11+69.47 LINE "U"
STA 11+69.47 LINE "X"

PT 11+94.07 LINE "Y" -
STA 11+69.47 9' LT & LINE "X"

STA 11+69.47 LINE "W" -
STA 11+69.47 9' RT & LINE "T"

STA 23+25.49 LINE "V" -
STA 23+25.49 9' LT & LINE "U"

STA 10+37.39 AH

STA 10+55.87 BK

STA 14+97.35

STA 17+90.25

MATCH LINE STA 8+00 LINE "T"

MATCH LINE STA 8+00 LINE "S"

MATCH LINE STA 28+25 LINE "V"

MATCH LINE STA 23+00 LINE "S"

SEE SHEET 41 FOR ISLAND D-2 DETAILS

SEE SHEET 41 FOR ISLAND D-3 DETAILS

SEE SHEET 41 FOR ISLAND C-3 DETAILS

SEE SHEET 41 FOR ISLAND C-2 DETAILS

SEE SHEET 44 FOR ISLAND G DETAILS

SEE SHEET 44 FOR ISLAND H DETAILS

SEE SHEET 50 FOR SIDEWALK DETAILS

PLAN SHEET STA. 9+00 TO 23+00 LINE "S" WESTBOUND

CALC BY DATE
CHKD BY DATE

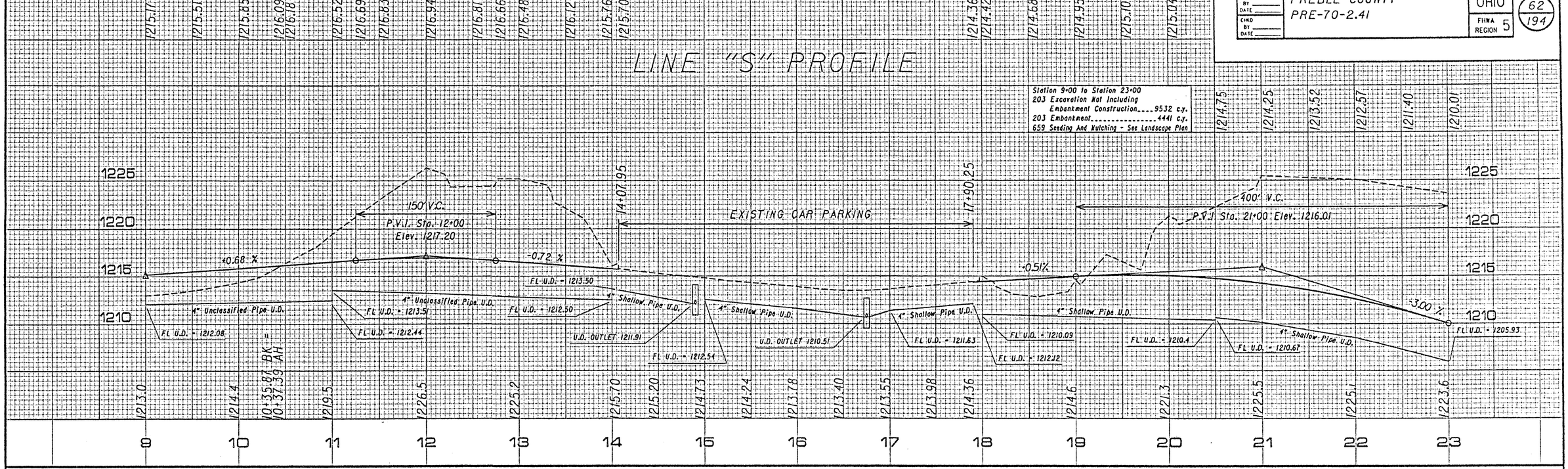
PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

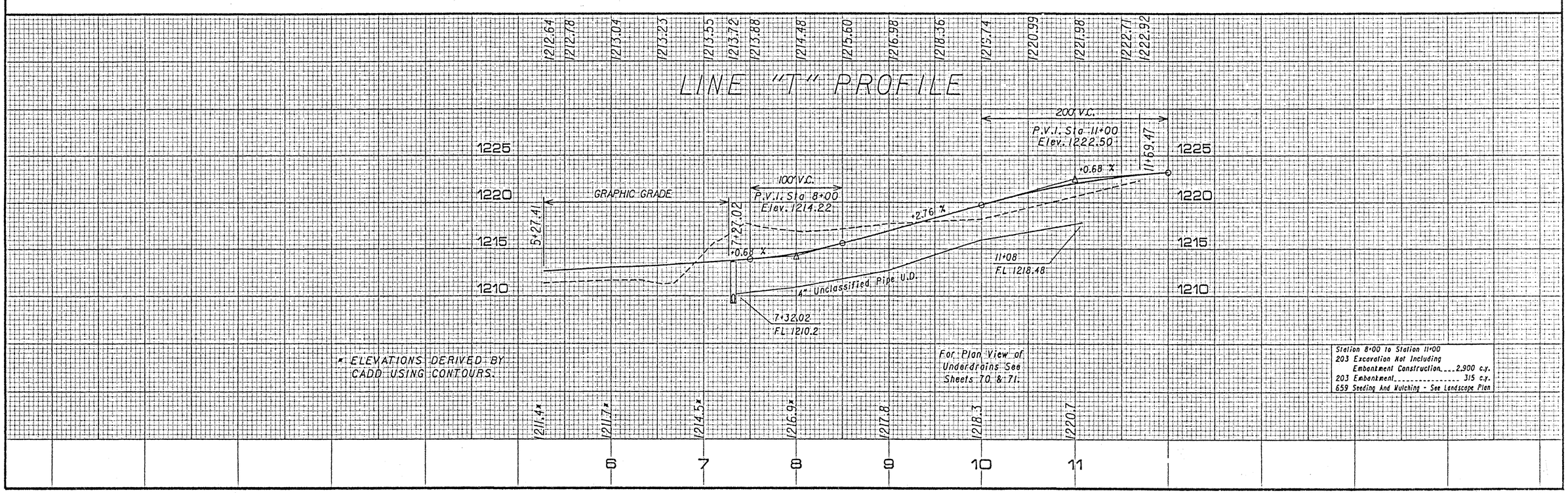
62
194

LINE "S" PROFILE

Station 9+00 to Station 23+00
203 Excavation Not Including Embankment Construction....9532 c.y.
203 Embankment....4441 c.y.
659 Seeding And Mulching - See Landscape Plan



LINE "T" PROFILE



* ELEVATIONS DERIVED BY CADD USING CONTOURS.

For Plan View of Underdrains See Sheets 70 & 71.

Station 8+00 to Station 11+00
203 Excavation Not Including Embankment Construction....2,900 c.y.
203 Embankment....315 c.y.
659 Seeding And Mulching - See Landscape Plan

CALC BY / DATE	PREBLE COUNTY	OHIO	63
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194

LINE "U" PROFILE

1222.83 1223.04 1223.58 1223.72 1224.06 1224.40 1224.74 1225.08 1225.42 1225.76 1226.10 1226.44 1226.78 1227.03 1227.09 1226.96 1226.65 1226.15 1225.46 1224.68 1223.90 1223.12 1222.34 1221.56 1221.16

1230 1225 1220 1215

300' V.C.
P.V.I. Sta. 19+00
Elev. 1227.80

-0.68 %

-1.56%

11+69.47 1228.4 1231.8 1227.3 12 13 14 15 16 17 18 19 20 21 22 23 23+25.49

15 +10.39 1224.6 1226.1
16 +35.27 1227.0 1228.8
17 +35.27 1229.2 1230.7 1233.0 1230.5 1226.2 1224.3 1221.6 1219.8 1218.8 1218.4 1217.5 1217.3 1218.2

Sta. 11+00 Line "T" to Sta. 24+00 Line "V"	
203 Excavation Not Including Embankment Construction	26,307 c.y.
203 Embankment	19,579 c.y.
659 Seeding And Mulching - See Landscape Plan	

LINE "V" PROFILE

1221.02 1220.64 1219.86 1218.95 1217.77 1216.41 1215.16 1213.86 1212.55 1211.25 1209.94 1208.64 1207.27 1206.07 1205.12 1204.36 1203.75 1203.16 1202.58 1202.01 1201.43 1201.33

1225 1220 1215 1210

100' V.C.
P.V.I. Sta 24+50
Elev. 1219.08

-1.56%

-2.61 %

25+50
FL 1212.22

4" Shallow Pipe U.D.

For Plan View Of Underdrain See Sheet 71 & 72.

29+00
FL 1204.62

GRAPHIC GRADE

33+08.86

1225 1220 1215 1210 1205 1200

23+25.49 1218.3* 1218.0 1222.3 1224.5 1222.1 1224.0 1225.4* 1227.7* 1206.9* 1203.8* 1201.7*
24 25 26 27 28 29 30 31 32 33

Station 24+00 to Station 28+25	
203 Excavation Not Including Embankment Construction	9,377 c.y.
203 Embankment	228 c.y.
659 Seeding And Mulching - See Landscape Plan	

CALC BY DATE	PREBLE COUNTY	OHIO	64
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194

* Taper curb from 6" to 0" in 10'

** Taper curb from 9" to 0" in 10'

CURVE S4 DATA
P.I. Sta. 30+67.65
Δ = 8° 18' 21.9" LT
Dc = 1° 30' 0"
L = 553.74'
T = 277.36'
E = 10.06'
R = 3819.72'

CURVE V1 DATA
P.I. Sta. 28+51.96
Δ = 34° 6' 44.9" LT
Dc = 8° 0' 0"
L = 426.41'
T = 219.73'
E = 32.94'
R = 716.20'

STA MATCH LINE 28+26 LINE "V"

STA MATCH LINE 29+00 LINE "S"

EX R/W

C.P.A. Sta. 30+16.98
159.93' Lt. Line "V"

C.P.A. Sta. 30+27.89
121.71' Lt. Line "V"

PT 30+58.63 LINE "V" = STA 25+40.33 12° LT ℄ LINE "S"

PI STA 33+08.88 LINE "V" = PC 27+90.29 LINE "S"

PT 33+44.03 LINE "S" = STA 172+53.84 78' LT ℄ I-70

STA 35+94.21 LINE "S" = STA 175+04.02 78' LT ℄ I-70

STA 36+94.93 LINE "S" = STA 176+04.02 66' LT ℄ I-

STA 177+04.14 BK = STA 177+05.14 AH

WORK LIMITS

LA/RW

I.P.A. Sta. 30+00
117.09' Lt. Line "S"

C.P.A. Sta. 34+88.90
49.2' Lt. Line "S"

EX LA/RW

LINE "S" S 80° 24' 26" E

LINE "V"

S 88° 42' 49" E

S 88° 32' 49" E

PI 167+21.59

℄ I-70

36" conduit

36" conduit

END WORK
STA. 177+56.21

IM-70-1 (40) 02

EXISTING PAVEMENT TO BE REMOVED

Station 23+00 to Station 36+94.39
203 Excavation Not Including Embankment Construction ... 26,214 c.y.
203 Embankment ... 760 c.y.
659 Seeding And Mulching - See Landscape Plan

I-70 Station 162+50 to Station 167+50
203 Excavation Not Including Embankment Construction ... 221 c.y.
203 Embankment ... 316 c.y.
659 Seeding And Mulching - See Landscape Plan

200' V.C.
P.V.I. Sta. 24+50 Elev. 1205.51
3.00 %
1.23 %
1" Shallow Pipe U.D.
23+68
FL 1205.4
23+84
FL 1202.7
1" Shallow Pipe U.D.
For Plan View of Underdrains See Sheet 12.
29+00
Outlet 1195.34
1" Unclassified Pipe U.D.
33+00
Outlet 1191.9
36+00
Outlet 1187.8
1" Shallow Pipe U.D.
28+88.78
GRAPHIC GRADE
36+94.93

PLAN AND PROFILE STA. 23+00 TO 36+94.93 LINE "S"

DRAINAGE SUB-SUMMARY

CALC BY _____ DATE _____
CHKD BY _____ DATE _____

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

65
194

REF NO.	SHEET NO.	STATION TO STATION	202		601	602	603								604										605			670		SPECIAL
			CATCH BASIN REMOVED	PIPE REMOVED 24" & UNDER	ROCK CHANNEL PROTECTION TYPE D WITH FILTER	CONCRETE MASONRY	4" CONDUIT TYPE B	6" CONDUIT TYPE F 707.31 NON-PERFORATED ASTM 3034 SDR 35 OR SS931	12" CONDUIT TYPE B	15" CONDUIT TYPE B	18" CONDUIT TYPE B	12" CONDUIT TYPE C	15" CONDUIT TYPE C	18" CONDUIT TYPE C	BENDS AND BRANCHES	INLET No. 2A-6 AS PER PLAN A	INLET No. 2A-8 AS PER PLAN A	INLET No. 2A-10 AS PER PLAN A	INLET No. 2A-6 AS PER PLAN B	INLET No. 2A-8 AS PER PLAN B	INLET No. 2A-10 AS PER PLAN B	INLET No. 2A-12 AS PER PLAN B	CATCH BASIN 2-2-B	CATCH BASIN CB-6	4" SHALLOW PIPE UNDERDRAIN	4" UNCLASSIFIED PIPE UNDERDRAIN	BENDS AND BRANCHES	DITCH EROSION PROTECTION	SLOPE EROSION PROTECTION	PRECAST REINFORCED CONCRETE OUTLET
			EACH	LIN. FT.	C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.		S.Y.	S.Y.	EACH
		EASTBOUND REST AREA																												
1-D	67	10+00, 26.4' LT, Line "A" to 10+00, 20' RT, Line "A"								49													1						
2-D	67	10+00, 20' RT, Line "A"			2.2	0.27																								
3-D	67	13+00, 60.8' LT, Line "A"			2.7																									
4-D	67	13+25, ℄ Line "A" to 13+00, 60.75' LT, Line "A"				0.21			66										1											
5-D	67	13+00, 6' RT, Line "B"			2.2																				516		1-90° Bend			1
1-UD	67	7+00, Line "A" to 12+00, Line "B"						10																		500	1-Tee Branch			1
2-UD	67	12+00, Line "B" to 17+00, Line "C"					58	10																	375					
3-UD	67	13+29, Line "A" to 17+00, Line "A"																							691		1-Tee Branch			
4-UD	67	138+50.10, 68' RT, ℄ I-70 to 145+03.86, 68' RT ℄ I-70																												
6-D	68	22+50, 35.5' LT, Line "A" to 25+15, 35.5' LT, Line "A"							265								1													
7-D	68	25+15, 35.5' LT, Line "A" to 25+15, 102.75' LT, Line "A"				0.21						67						1												
8-D	68	25+15, 102.75' LT, Line "A"			3.8																								213	
9-D	68	17+00, 26.9' RT Line "C" to 17+92.82, 117.13' RT Line "C"																												
10-D	68	17+92.82, 117.13' RT Line "C"			2.9																								2138	
11-D	68	18+00, 119.96' RT Line "C" to 25+00, 113.50' RT Line "C"																				1								
12-D	68	20+00, 9' LT, Line "E" to 21+25, 9' LT, Line "E"							115											1										
13-D	68	21+25, 9' LT, Line "E" to 23+25, 9' LT, Line "E"										180											1							
14-D	68	23+25, 60' LT, Line "E" to 23+25, 9' LT, Line "E"											51								1									
15-D	68	23+25, 9' LT, Line "E" to 25+70, 9' LT, Line "E"											220									1								
16-D	68	25+70, 9' LT, Line "E" to 27+10.95, 9' RT, Line "C"									195																			
17-D	68	27+10.95, 9' RT, Line "C" to 28+80, 9' RT, Line "F"												136							1									
18-D	68	28+80, 9' RT, Line "F" to 28+80, 9' RT, Line "F"				0.33								23							1									
19-D	68	28+80, 31.12' RT Line "F"			3.0																									
20-D	68	30+00, 11.26' RT Line "C" to Sta. 30+00, 27.8' RT Line "C"				0.21						45			2-12"x22.5° Bends					1										
21-D	68	30+00, 27.8' RT Line "C" to Sta. 30+00, 58.0' RT Line "C"			1.9																									
1-DR	68	25+00, 26' LT Line "A"	1	80																										
2-DR	68	25+45, 86.4' LT Line "A"	1	32																					560		1-Tee Branch			1
5-UD	68	17+00, Line "C" to 21+00, Line "F"						10																	420		1-Tee Branch			1
6-UD	68	21+00, Line "F" to 25+00, Line "F"						10																		400				
7-UD	68	25+00, Line "F" to 30+00, Line "F"																								367				
8-UD	68	28+80, Line "F" to 30+00, Line "C"																								400				
9-UD	68	30+00, Line "C" to 34+00, Line "D"																								274	1-Tee Branch			
10-UD	68	17+48, Line "C" to 20+00, Line "E"																								134	1-Tee Branch			
11-UD	68	20+00, Line "E" to 21+25, Line "E"																								209	1-Tee Branch			
12-UD	68	21+25, Line "E" to 23+25, Line "E"																								254	1-Tee Branch			
13-UD	68	23+25, Line "E" to 25+75, Line "E"																								551				
14-UD	68	25+75, Line "E" to 34+00, Line "D"																							588		1-Tee Branch 2-90° Bend			
15-UD	68	17+00, Line "A" to 22+50, Line "A"																							280		1-Tee Branch			
16-UD	68	22+50, Line "A" to 25+15, Line "A"																							193					
17-UD	68	25+07.60, Line "A" to 27+00, Line "A"																												
22-D	69	27+00, 39.5' LT Line "A"			2.3																									
23-D	69	27+00, 16' LT, Line "A" to 27+00, 39.5' LT, Line "A"				0.21						21					1													
24-D	69	28+00, ℄ Line "A" to 27+00, 16' LT, Line "A"							102							1								1						
25-D	69	37+00, 24' LT Line "A" to 37+00, 25.4' RT, Line "A"			2.8	0.27				49															100					
18-UD	69	27+00, Line "A" to 28+00, Line "A"																							197					
19-UD	69	28+00, Line "A" to 29+97, Line "A"																							200		1-Tee Branch			1
20-UD	69	34+00, Line "D" to 35+90, Line "D"						10																	320		1-Tee Branch			1
21-UD	69	34+00, Line "D" to 37+00, Line "D"						10																	535		1-Tee Branch			
22-UD	69	159+50.04, 68' RT ℄ I-70 to 164+84.52, 68' RT ℄ I-70																							564		1-Tee Branch			1
23-UD	69	37+00, Line "D" to 36+90, Line "A"						10																	538					
24-UD	69	36+90, Line "A" to 42+00, Line "A"																							342					
25-UD	69	42+00, Line "A" to 45+00, Line "A"																							440					
26-UD	69	45+00, Line "A" to 49+00, Line "A"																												
TOTALS TO GENERAL SUMMARY			2	112	23.8	1.71	58	70	548	98	195	313	271	159		1	2	1	3	2	2	1	2	1	6859	3089			2351	7

SEE SHEETS 73-77 FOR DRAINAGE PROFILES

DRAINAGE SUB-SUMMARY

CALC BY ____ DATE ____
CHKD BY ____ DATE ____

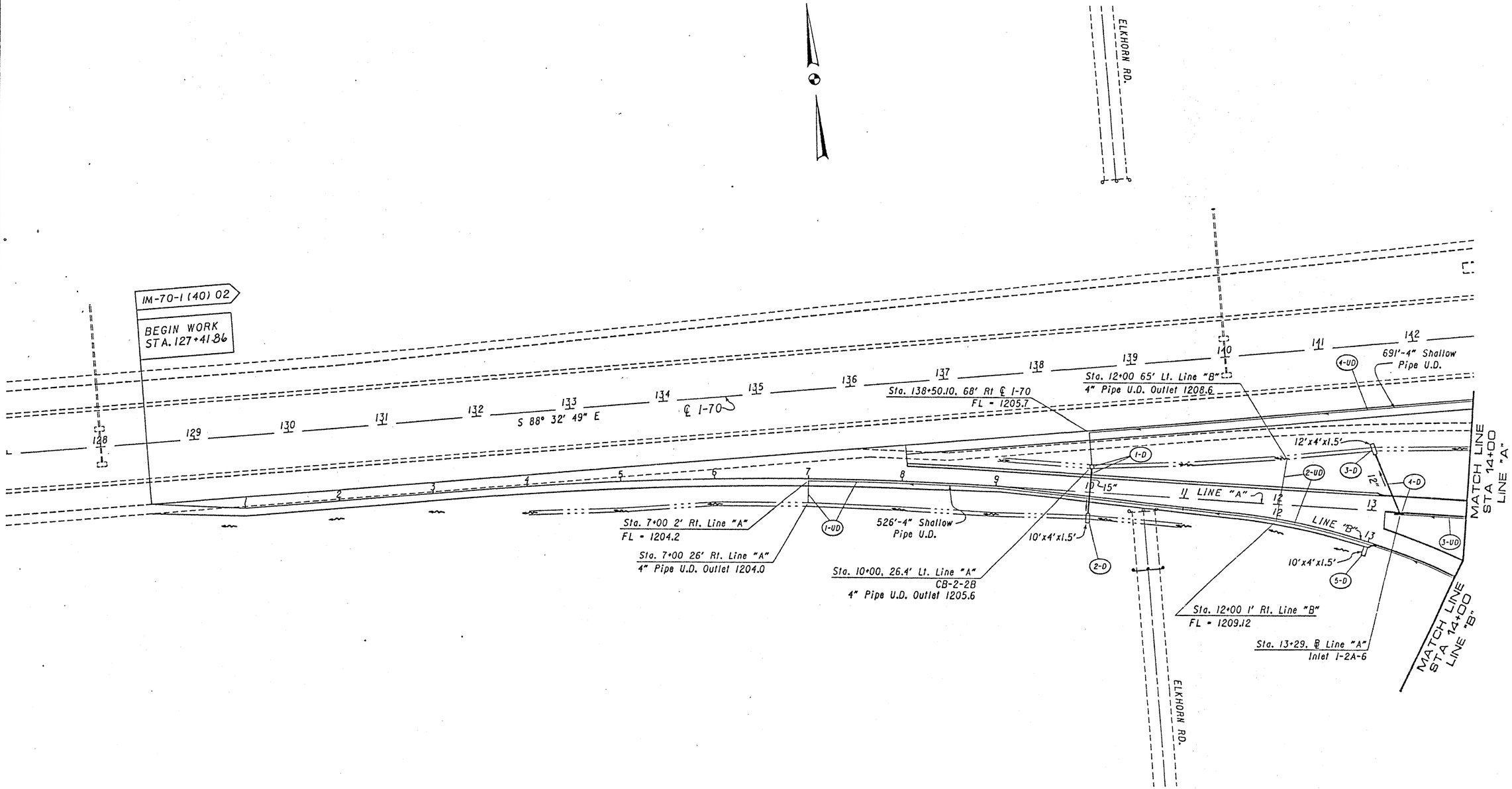
PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

REF NO.	SHEET NO.	STATION TO STATION	202 CATCH BASIN REMOVED EACH	202 PIPE REMOVED 24" & UNDER LIN. FT.	601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER C.Y.	601 ROCK CHANNEL PROTECTION TYPE D WITH FILTER C.Y.	602 CONCRETE MASONRY C.Y.	603 6" CONDUIT TYPE F TOTJT NON-PERFORATED ASTM 3034 SDR 35 OR SS931 LIN. FT.	603 12" CONDUIT TYPE B LIN. FT.	603 15" CONDUIT TYPE B LIN. FT.	603 18" CONDUIT TYPE B LIN. FT.	603 12" CONDUIT TYPE C LIN. FT.	603 15" CONDUIT TYPE C LIN. FT.	603 18" CONDUIT TYPE C LIN. FT.	BENDS AND BRANCHES EACH	604 INLET No. 2A-6 AS PER PLAN A EACH	604 INLET No. 2A-8 AS PER PLAN A EACH	604 INLET No. 2A-10 AS PER PLAN A EACH	604 INLET No. 2A-6 AS PER PLAN B EACH	604 INLET No. 2A-8 AS PER PLAN B EACH	604 INLET No. 2A-10 AS PER PLAN B EACH	604 CATCH BASIN 2-2-B EACH	604 CATCH BASIN CB-5 EACH	604 CATCH BASIN CB-6 EACH	605 4" SHALLOW PIPE UNDERDRAIN LIN. FT.	605 4" UNCLASSIFIED PIPE UNDERDRAIN LIN. FT.	BENDS AND BRANCHES EACH	670 DITCH EROSION PROTECTION S.Y.	670 SLOPE EROSION PROTECTION S.Y.	SPECIAL PRECAST REINFORCED CONCRETE OUTLET EACH
		WESTBOUND REST AREA																													
26-D	70	99+59, 31' LT Line "S" to 1+00, 23.75' RT Line "S"																													
28-D	70	6+93.69, 71.82' LT Line "S"								65				10										1	1						
29-D	70	7+32.02, ℄ Line "T" to 6+81.56, 81.7' LT Line "S"				2.7																									
30-D	70	7+54.19, 23' LT, Line "S" to 7+32.02, Line "T"					0.21		38											1											
31-D	70	7+75, Line "S" to 6+81.56 81.7' LT, Line "S"							37														1								
27-UD	70	1+00, 2' Lt. Line "S" to 4+00, 2' Lt. Line "S"											28			1															
28-UD	70	140+42, 69' Lt. ℄ I-70 to 147+67.35, 68' LT. ℄ I-70						10																			325	I-90° Bend			1
29-UD	70	4+00, 30' Lt. Line "S" to 7+25 Line "T"																								725		I-Tee Branch				
30-UD	70	7+32.02, Line "T" to 11+25 Line "Y"						10																		345		I-Tee Branch			1	
31-UD	70	7+75 Line "S" to 11+00, 1' Lt. Line "S"																								400	185					
32-D	71	11+25, ℄ Line "Y" to 11+25 25.95' LT, Line "Y"					0.21						25								1						325					
33-D	71	11+25, 25.95' LT Line "T"				4.0																										
34-D	71	12+25, 41' LT Line "Y"				2.7																										
35-D	71	12+31.50, 25.54' LT, Line "U" to 12+25, 41' LT, Line "Y"					0.21		64												1											
36-D	71	13+00, 148' LT Line "U" to 21+63.74, 117.09' LT Line "U"				6.0																									1851	
37-D	71	10+00, 40' LT Line "T"					0.27			116																						
38-D	71	11+00, 18' RT, Line "T" to 10+00, 40' LT Line "T"								100											1											
39-D	71	12+00, 9' RT, Line "W" to 11+00 18' RT, Line "T"							125												1											
40-D	71	13+25, 9' RT, Line "W" to 12+00 9' RT, Line "W"							125													1										
41-D	71	14+50, 9' RT, Line "W" to 13+25 9' RT, Line "W"											149							1											
42-D	71	16+10, 9' RT, Line "W" to 14+50 9' RT, Line "W"							155												1											
43-D	71	20+25, 11.49' LT Line "U" to 19+00 9' RT Line "W"							79												1											
44-D	71	19+00, 9' RT Line "W" to 19+78.70, ℄ Line "W"					0.27							73							1											
45-D	71	19+78.70, ℄ Line "W" to 22+37.66, 107.69' RT, Line "U"				3.4																										
46-D	71	22+37.67, 107.69' RT Line "U"				5.1		235																								
47-D	71	22+60.21, 113.56' LT Line "U"					0.21	110	158														1									
48-D	71	23+50, 29.25' LT Line "V" to 23+50, 29.25' LT, Line "V"											93									1										
49-D	71	14+90, 35.5' RT, Line "S" to 16+75 35.5' RT, Line "S"							185																							
50-D	71	16+75, 35.5' RT, Line "S" to 16+75 114.5' RT, Line "S"					0.21						81				1															
51-D	71	16+75, 104.5' RT LINE "S"				2.2											1															
52-D	71	16+44, 26' RT Line "S"	1	59																												
3-DR	71	16+44, 87' RT Line "S"	1	33																												
4-DR	71	21+48, 110' RT Line "S"	1																													
5-DR	71	11+00, 17' RT Line "S" to 14+00, 127.9' RT Line "S"						10																			400	I-90° Bend			1	
32-UD	71	14+07.95, 23.5' RT Line "S" to 14+90, 35.5' RT Line "S"																								95		I-Tee Branch				
33-UD	71	15+00, 23.5' RT Line "S" to 16+75, 23.5' RT Line "S"																								185		I-Tee Branch				
34-UD	71	16+75, 35.5' RT Line "S" to 17+90.25, 23.5' RT Line "S"																								125						
35-UD	71	18+00, 17' RT Line "S" to 20+50, 116' RT Line "S"						10																		340		I-90° Bend			1	
36-UD	71	20+50, 1' LT Line "S" to 23+68, Line "S"																								218						
37-UD	71	11+25, Line "Y" to 15+50, 10' LT Line "X"																									460						
38-UD	71	15+50, 35' LT Line "X" to 19+75, 10' LT Line "X"						10																			440	I-Tee Branch			1	0
39-UD	71	19+75, 10' LT Line "X" to 21+62.56, 136.6' LT Line "U"						10																			431	I-Tee Branch			1	0
40-UD	71	23+90.43, 1' LT Line "X" to 25+45, Line "Y"																									486					
41-UD	71	25+45, Line "Y" to 29+00, Line "Y"																								355						
42-UD	71	11+00, 9' RT Line "T" to 12+00, 9' RT Line "W"																								109		I-90° Bend				
43-UD	71	12+00, Line "W" to 13+25, 9' RT Line "W"																									134	I-Tee Branch				
44-UD	71	13+25, Line "W" to 14+50, 9' RT Line "W"																								134		I-Tee Branch				
45-UD	71	14+50, Line "W" to 16+10, 9' RT Line "W"																								169		I-Tee Branch				
46-UD	71	16+10, Line "W" to 17+25, 9' RT Line "W"																								124		I-Tee Branch				
47-UD	71	17+25, Line "W" to 19+00, 9' RT Line "W"																								184		I-Tee Branch				
48-UD	71	19+00, Line "W" to 19+75, Line "W"																									184					
49-UD	71	23+00, 88' LT Line "S" to 24+00, 66' LT Line "S"			22.3																											
53-D	72	25+00, 40' LT Line "S"				2.3																										
54-D	72	29+00, ℄ Line "V" to 25+00, 40' LT Line "S"					0.21						100																			
55-D	72	23+65, ℄ Line "S" to 29+00 ℄ Line "V"							39								1															
56-D	72	24+10, 94' RT Line "S"	1																													
6-DR	72	25+42, 30' RT Line "S" to 26+37, 18' LT Line "S"		107																												
7-DR	72	24+00, 66' LT Line "S" to 29+00 50' LT Line "S"																														
57-D	72	28+00, 32.35' LT Line "S"				1.0																									222.3	
58-D	72	28+00, 27.4' RT Line "S", to 28+00, 32.35' LT, Line "S"					0.27			64																						
59-D	72	28+89 ℄ Line "S" to 28+89 45' LT Line "S"	1	45																												
8-DR	72	29+00, Line "V" to 29+00, 48' LT Line "S"						10																		553		I-Tee Branch			1	
50-UD	72	162+14.68, 68' Lt. ℄ I-70 to 167+99.47, 68' LT. ℄ I-70																								493	114	I-Tee Branch				
51-UD	72	29+00, 2' LT Line "S" to 33+00, 25' LT Line "S"						10																			413	I-Tee Branch			1	
52-UD	72	33+00, 2' LT Line "S" to 36+00, 25' LT Line "S"						10																		313		I-90° Bend			1	
TOTALS TO GENERAL SUMMARY			5	244	22.3	29.4	2.07	435	1005	345		476	73	10		1	3		3	8	2	3	1	1	4,867	3,712		222	1851	9	

SEE SHEETS 73-77 FOR DRAINAGE PROFILES

CALC BY DATE	PREBLE COUNTY PRE-70-2.41	OHIO FHWA REGION 5	67 194
CHKD BY DATE			



See Sheets 73 & 74
For Drainage Profiles

DRAINAGE PLAN STA. 0+00 TO 14+00 LINE "A" EASTBOUND

CALC BY DATE
CHKD BY DATE

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

68
194

STA 145+03.86
66' RT ℄ I-70

EASTBOUND LANE I-70

MATCH LINE STA 14+00 LINE "A"

Sta. 145+03.86, 68' Rt. ℄ I-70
FL = 1210.2

375'-4" Shallow Pipe U.D.

MATCH LINE STA 14+00 LINE "B"

510'-4" Unclassified Pipe U.D.

LINE "A"

LINE "B"

Sta. 22+50, 35.5' Lt. Line "A"
Inlet I-2A-8
4" Pipe U.D. Outlet 1209.15

280'-4" Shallow Pipe U.D.

FL = 1209.25

FL = 1211.36

588'-4" Shallow Pipe U.D.

193'-4" Shallow Pipe U.D.
17'x4'x1.5'

FL = 1206.60

MATCH LINE STA 27+00 LINE "A"

Sta. 25+15, 35.5' Lt. Line "A"
Inlet I-2A-10
4" Pipe U.D. Outlet 1206.50

MATCH LINE STA 32+65.07 LINE "D"
STA 30+00 LINE "E"

FL = 1212.14

274'-4" Unclassified Pipe U.D.

FL = 1212.01
FL = 1209.51

Sta. 20+00, 9' Lt. Line "E"
Inlet I-2A-10
4" Pipe U.D. Outlet = 1209.14

134'-4" Unclassified Pipe U.D.

FL = 1209.23

LINE "C"

LINE "E"

LINE "D"

551'-4" Unclassified Pipe U.D.

400'-4" Unclassified Pipe U.D.

13'x4'x1.5'

570'-4" Shallow Pipe U.D.

Sta. 23+25,
9' Lt. Line "E"
Inlet I-2A-10
4" Pipe U.D.
Outlet 1201.76

Sta. 23+25, 60' Lt. Line "E"
CB-2-2B

FL = 1206.89

Sta. 21+25, 9' Lt. Line "E"
4" Pipe U.D. Outlet 1206.80
Inlet I-2A-8

209'-4" Unclassified Pipe U.D.

Sta. 30+00, 11.26' Rt. Line "F"
Inlet I-2A-8
4" Pipe U.D. Outlet 1200.51

Sta. 25+70, 9' Lt. Line "E"
Inlet I-2A-12
4" Pipe U.D. Outlet 1197.96

8.5'x4'x1.5'

For Channel Detail See Sheet 78

FL = 1198.05

Sta. 27+10.95,
9' Rt. Line "C"
Inlet I-2A-6

254'-4" Unclassified Pipe U.D.

FL = 1201.85

FL = 1203.95

LINE "F"

Sta. 21+00, 42' Rt. Line "F"
4" Pipe U.D. Outlet 1202.95

FL = 1198.88

430'-4" Shallow Pipe U.D.

400'-4" Unclassified Pipe U.D.

Sta. 25+00, 44' Rt. Line "F"
4" Pipe U.D. Outlet 1196.88

367'-4" Unclassified Pipe U.D.

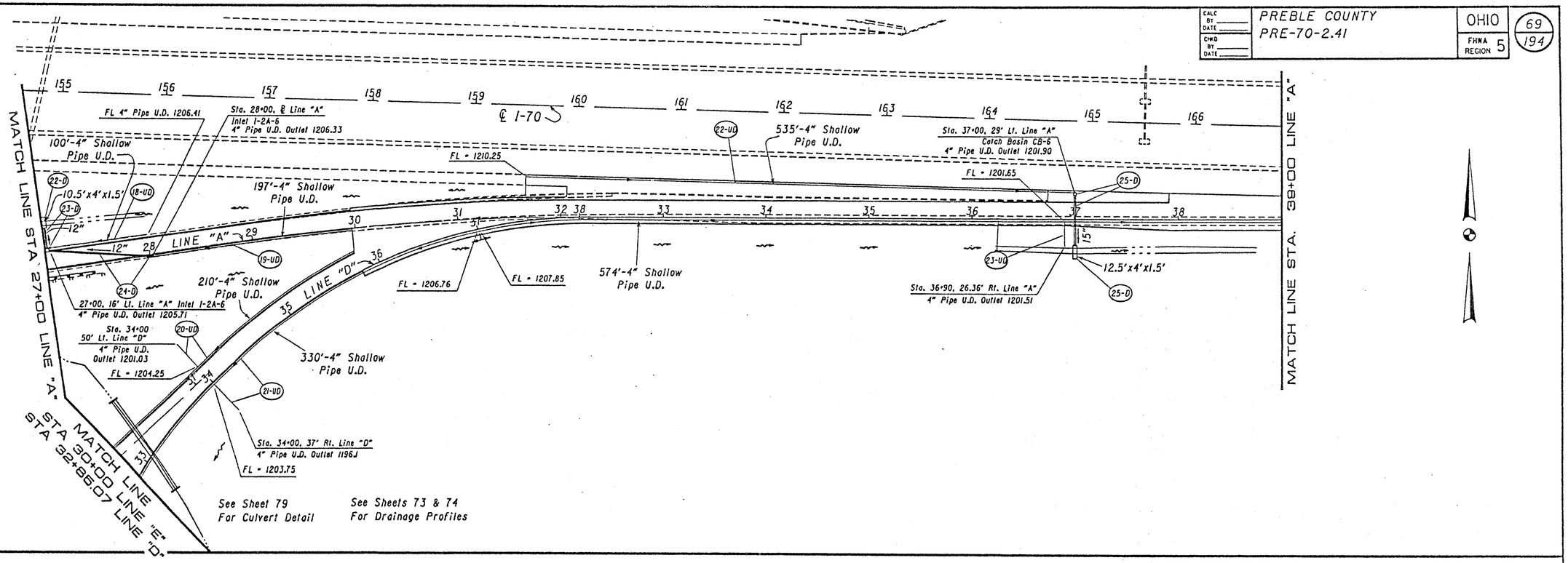
Sta. 28+80, 9' Rt. Line "F"
Inlet I-2A-6
4" Pipe U.D. Outlet 1194.74

13.5'x4'x1.5'

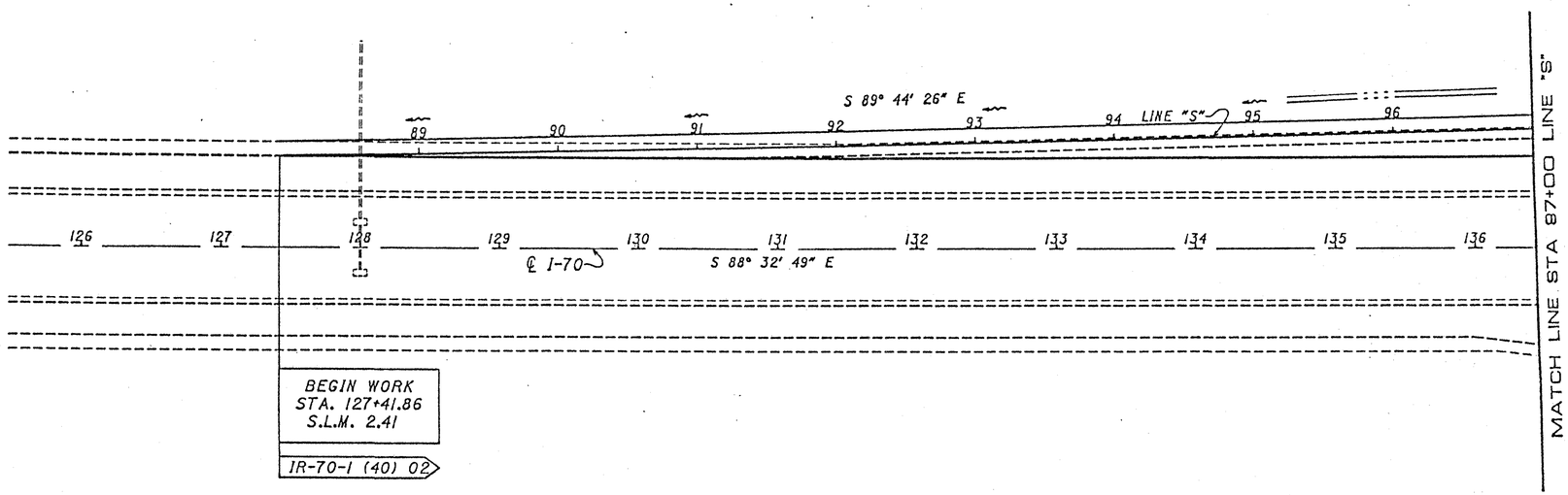
Slope Erosion Protection

See Sheets 73 & 74
For Drainage Profiles

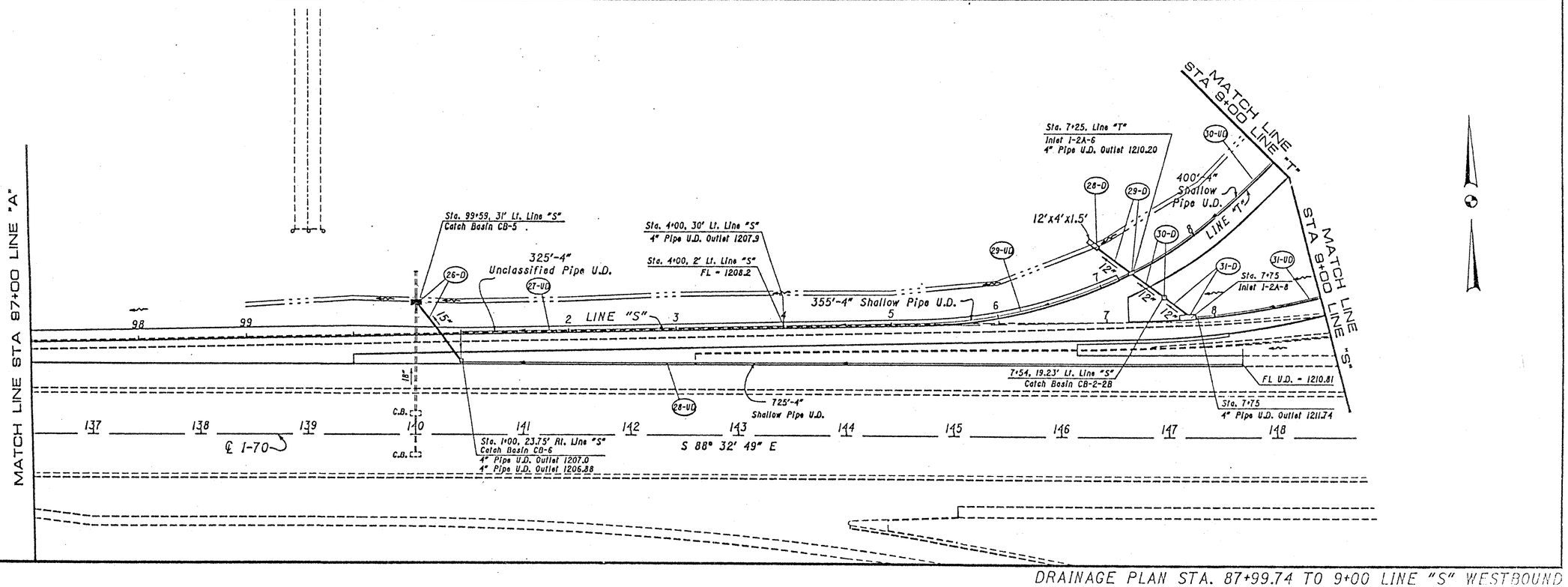
DRAINAGE PLAN STA. 14+00 TO 27+00 LINE "A" EASTBOUND



DRAINAGE PLAN STA. 27+00 TO 49+70.66 LINE "A" EASTBOUND



See Sheets 75-77
For Drainage Profiles



See Sheets 75-77
For Drainage Profiles

DRAINAGE PLAN STA. 87+99.74 TO 9+00 LINE "S" WESTBOUND

CALC BY		PREBLE COUNTY	OHIO	71
DATE		PRE-70-2.41	FHWA REGION 5	194
CHKD BY				
DATE				

See Sheets 75-77 For Drainage Profiles

Slope Erosion Protection

Sta. 19+75, 10' Lt. Line "X"
FL = 1222.48

Sta. 15+50, 35' Lt. Line "X"
4" Pipe U.D. Outlet = 1220.15

Sta. 15+50, 10' Lt. Line "X"
FL = 1220.75

450'-4" Unclassified Pipe U.D.

441'-4" Unclassified Pipe U.D.

10'-6" Type F
FL = 1219.0 ±
Bend

185' Type F

Sta. 23+90.43, 1' Lt. Line "X"
FL = 1219.33

Sta. 21+62.56, 136.61' Lt. Line "U"
4" Pipe U.D. Outlet = 1219.13

Bend

Sta. 21+96, 117.5' Lt. Line "U"
6" Type F Outlet = 1217.88

20+25, 11.49' Lt. Line "U"
Inlet I-2A-8

6" Field Tile To Be Abandoned

23'x4'x1.5'

LINE "X"

LINE "U"

460'-4" Unclassified Pipe U.D.

169'-4" Shallow Pipe U.D.

124'-4" Shallow Pipe U.D.

486'-4" Unclassified Pipe U.D.

10'-6" Type F
FL = 1212.38 ±
Bend

FL = 1221.25
Sta. 19+02, 9' Rt. Line "W"
4" Pipe U.D. Outlet 1221.16

Sta. 19+78.70, ℄ Line "W"
Inlet I-2A-8
4" Pipe U.D. Outlet 1221.63

6" Field Tile To Be Abandoned

Sta. 23+50, 29.25' Lt. Line "V"
Catch Basin CB-2-2B
6" Type F Outlet = 1212.18

12.3'x4'x1.5'

134'-4" Shallow Pipe U.D.

Sta. 12+31.50, 25.54' Lt. Line "U"
Inlet I-2A-8

FL = 1222.24

Sta. 14+50
9' Rt. Line "W"
Inlet I-2A-10
4" Pipe U.D. Outlet 1222.09

FL = 1223.59

Sta. 16+10, 9' Rt. Line "W"
Inlet I-2A-6
4" Pipe U.D. Outlet 1223.50

FL = 1224.32

184'-4" Shallow Pipe U.D.

Sta. 19+00, 9' Rt. Line "W"
Inlet I-2A-8

184'-4" Unclassified Pipe U.D.

15.5'x4'x1.5'

Sta. 11+14.89, 77.89' Lt. Line "T"
4" Pipe U.D. Outlet 1218.48

134'-4" Unclassified Pipe U.D.

Sta. 13+25, 9' Rt. Line "W"
Inlet I-2A-8
4" Pipe U.D. Outlet 1221.09

FL = 1221.18

Sta. 11+25, ℄ Line "Y"
Inlet I-2A-8

18'x4'x1.5'

FL = 1220.06

Sta. 12+00, 9' Rt. Line "W", Inlet I-2A-8
4" Pipe U.D. Outlet 1219.97

109'-4" Shallow Pipe U.D.

Sta. 25+45, Line "Y" I-2A-10
Inlet I-2A-10
4" Pipe U.D. Outlet = 1214.02

355'-4" Shallow Pipe U.D.

28'x4'x1.5'

Sta. 11+00, 18' Rt. Line "T", Inlet I-2A-8
4" Pipe U.D. Outlet 1219.0

FL = 1219.09

LINE "T"

LINE "Y"

MATCH LINE STA 9+00 LINE "T"

MATCH LINE STA 9+00 LINE "S"

MATCH LINE STA 23+00 LINE "S"

MATCH LINE STA 23+25 LINE "V"

Sta. 11+00, 1' Lt. Line "S"
FL = 1212.44

Sta. 14+00, 17' Rt. Line "S"
FL = 1212.5

Sta. 18+00, 17' Rt. Line "S"
FL = 1210.09

Sta. 20+50, 1' Lt. Line "S"
FL = 1210.67

LINE "S"

410'-4" Unclassified Pipe U.D.

95'-4" Shallow Pipe U.D.

185'-4" Shallow Pipe U.D.

125'-4" Shallow Pipe U.D.

350'-4" Shallow Pipe U.D.

218'-4" Shallow Pipe U.D.

325'-4" Unclassified Pipe U.D.

Sta. 11+00, 17' Rt. Line "S"
FL = 1213.51

Sta. 14+90, 35.5' Rt. Line "A"
Inlet I-2A-8
4" Pipe U.D. Outlet 1211.91

Sta. 14+00, 127.9' Rt. Line "S"
4" Pipe U.D. Outlet = 1212.0

FL = 1212.05

FL = 1210.65

Sta. 16+75, 35.5' Rt. Line "S"
Inlet I-2A-8
4" Pipe U.D. Outlet 1210.51

Sta. 20+50, 17' Rt. Line "S"
FL = 1210.67

Sta. 20+50, 116' Rt. Line "S"
4" Pipe U.D. Outlet = 1210.4

10'x4'x1.5'

Plug

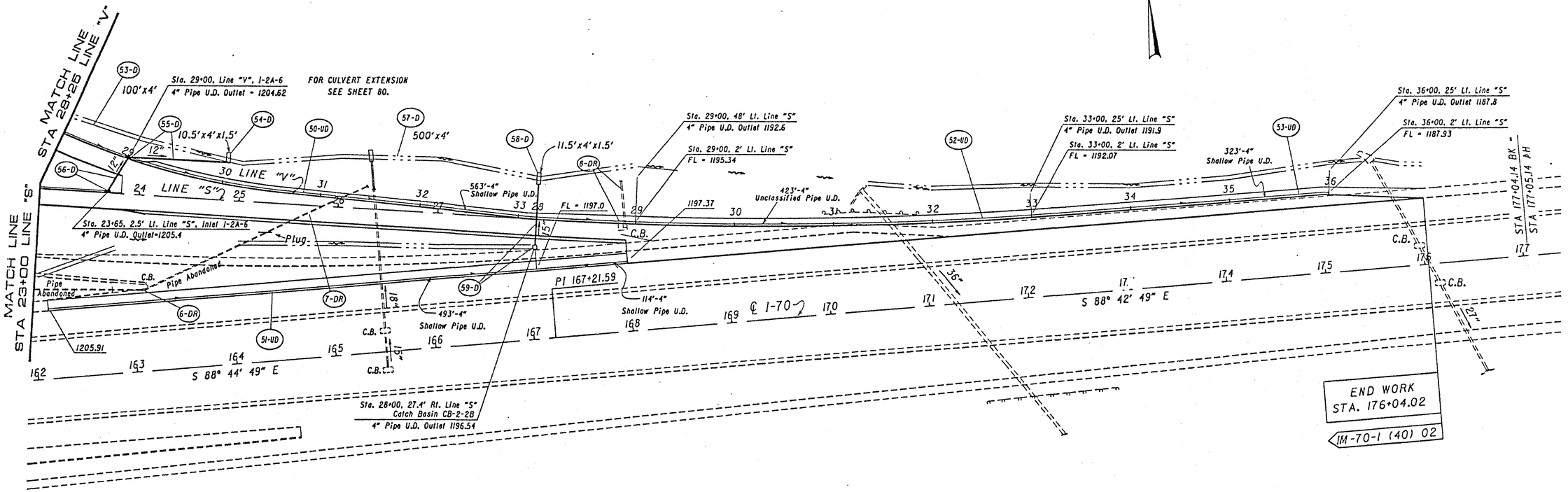
Pipe Abandoned

149 150 151 152 153 ℄ I-70 154 155 156 157 158 159 160 161

S 88° 32' 49" E

DRAINAGE PLAN STA. 9+00 TO 23+00 LINE "S" WESTBOUND

CALC BY DATE	PREBLE COUNTY	OHIO	72
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



See Sheets 75-77
For Drainage Profiles

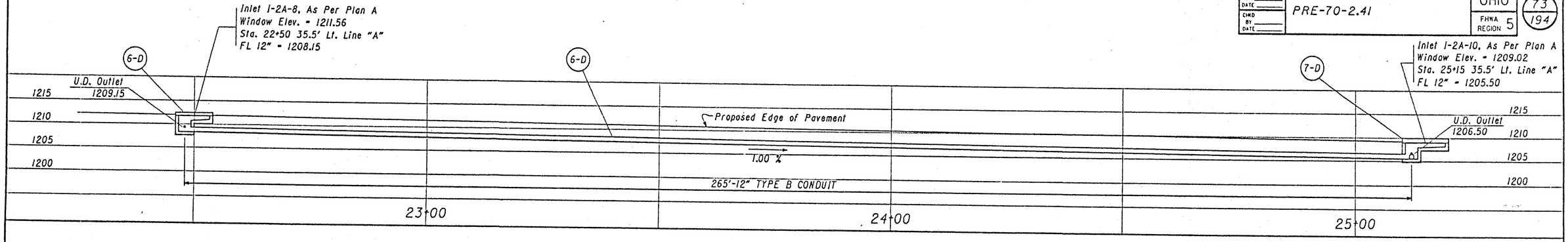
DRAINAGE PLAN STA. 23+00 TO 36+94.93 LINE "S" WESTBOUND

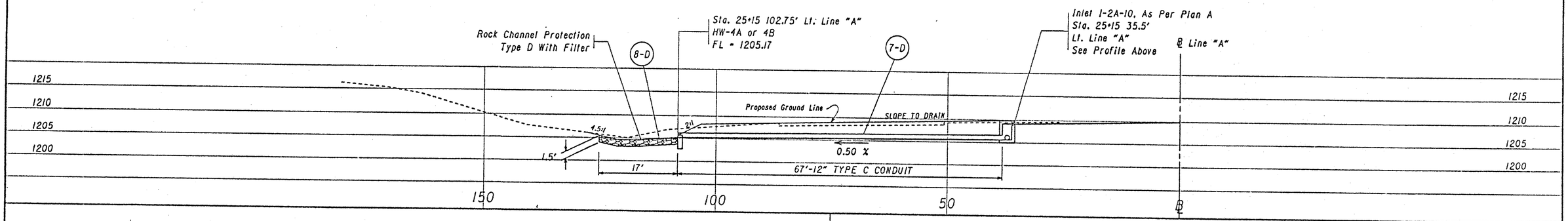
CALC BY ____ DATE ____
CHKD BY ____ DATE ____

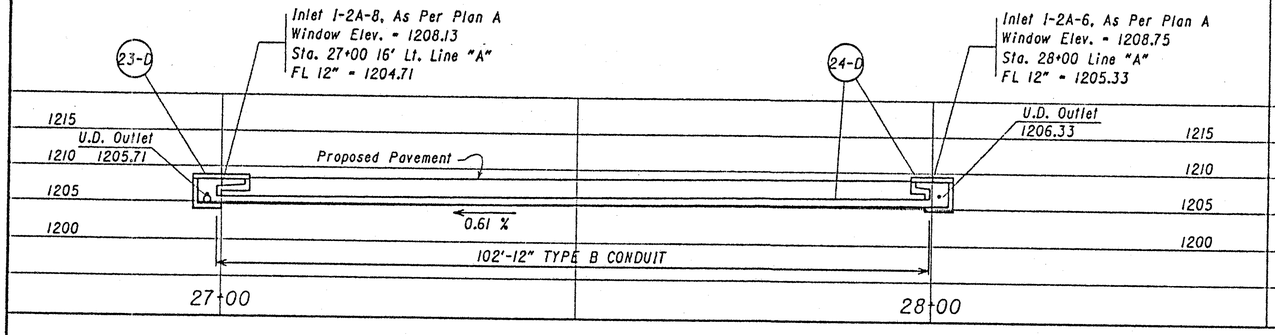
PREBLE COUNTY
PRE-70-2.41

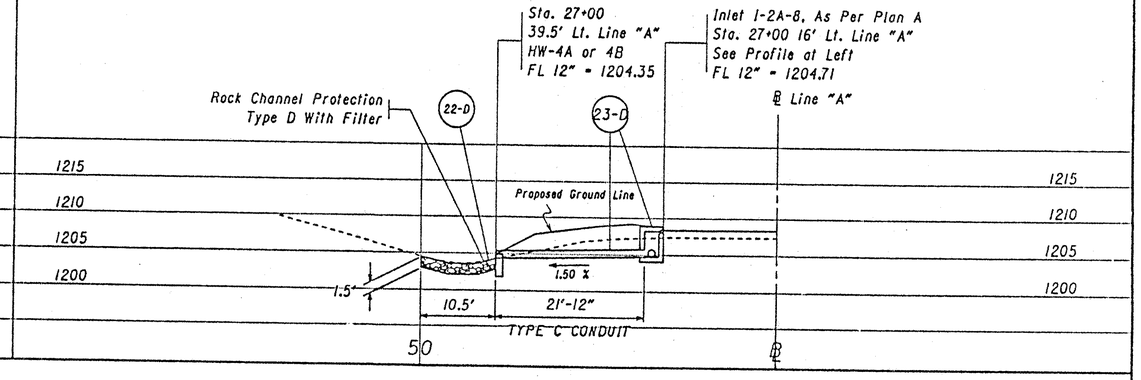
OHIO
FHWA REGION 5

73
194







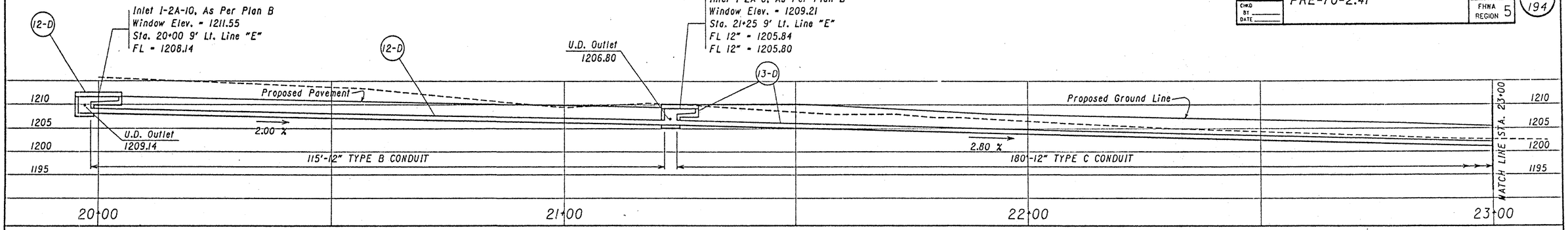


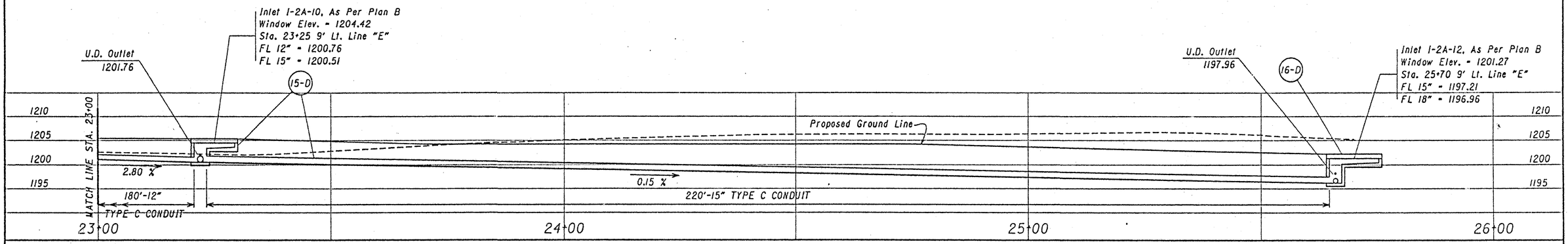
CALC BY ____ DATE ____
CHKD BY ____ DATE ____

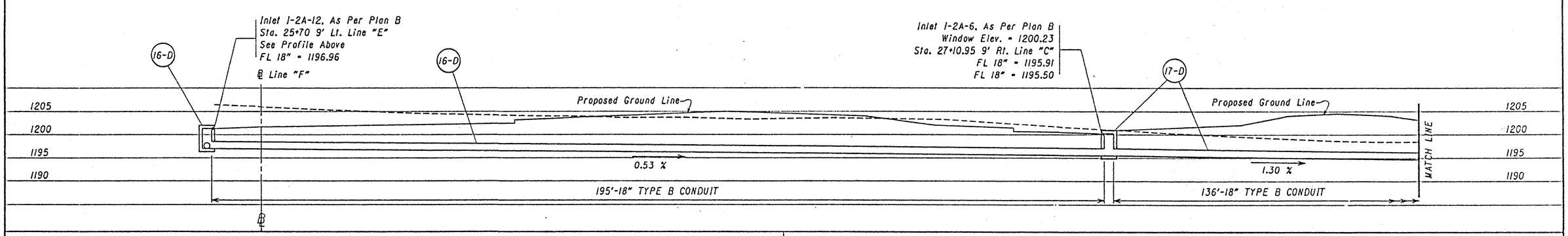
PREBLE COUNTY
PRE-70-2.41

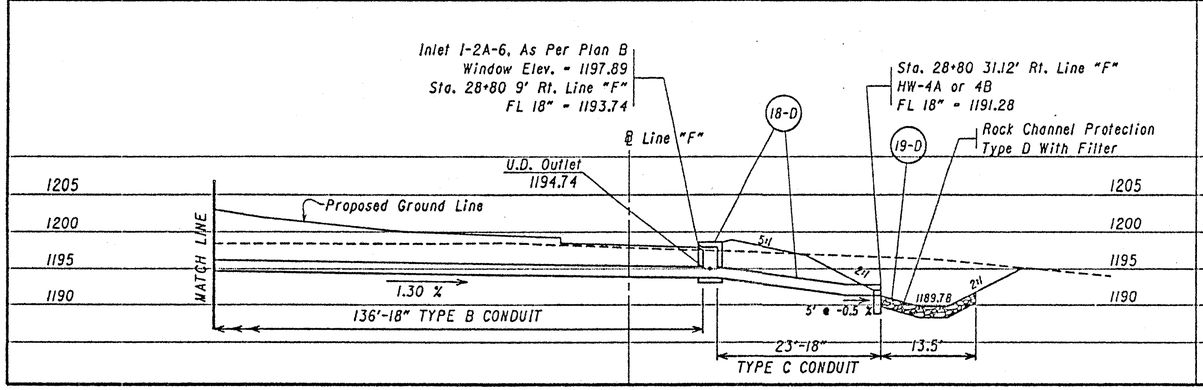
OHIO
FHWA REGION 5

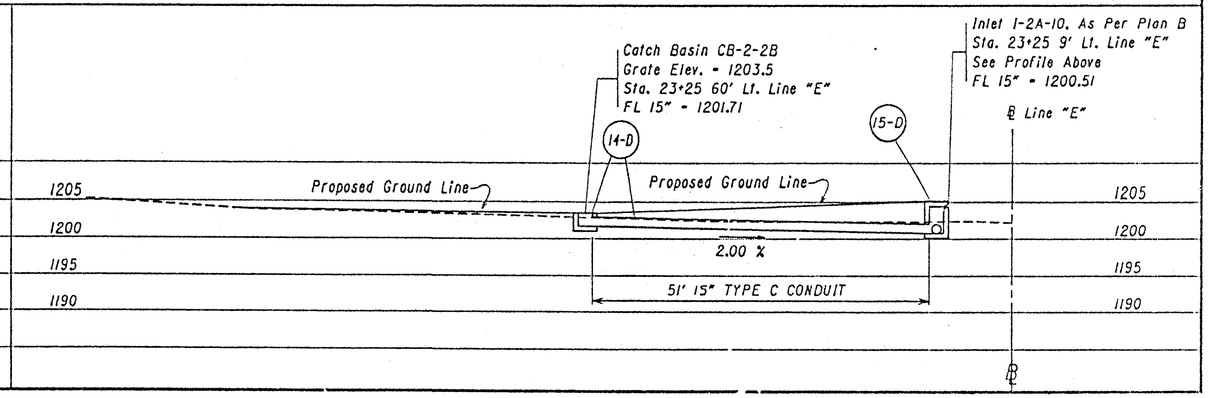
74
194











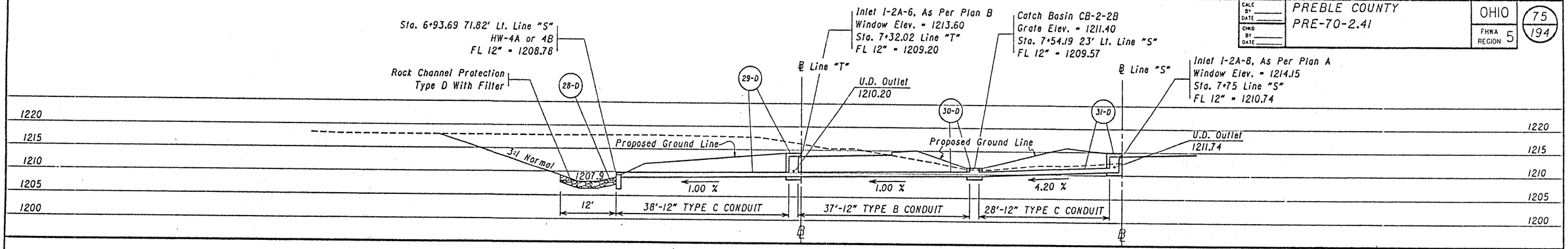
DRAINAGE PROFILE EASTBOUND

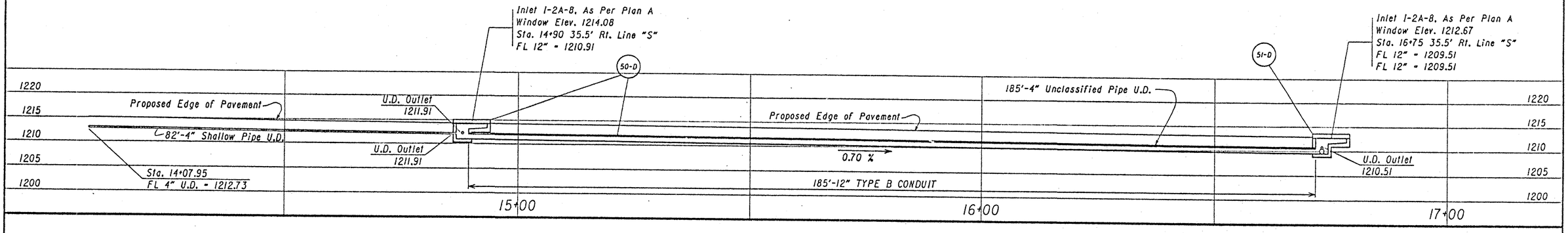
CALC BY ____ DATE ____
CHKD BY ____ DATE ____

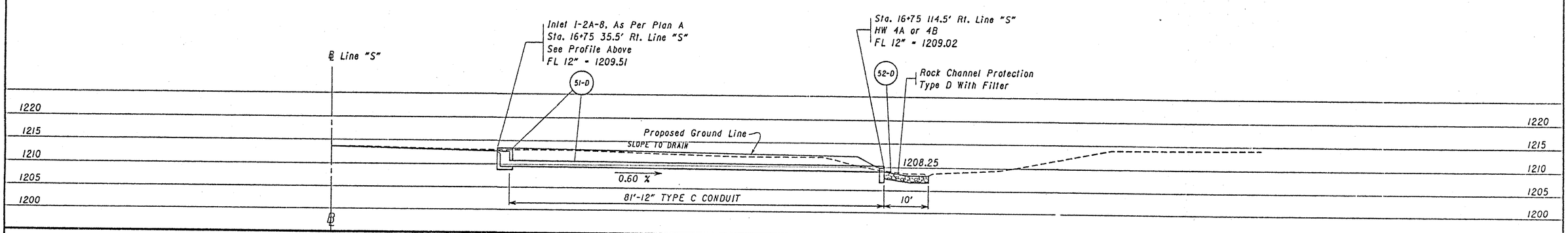
PREBLE COUNTY
PRE-70-2.41

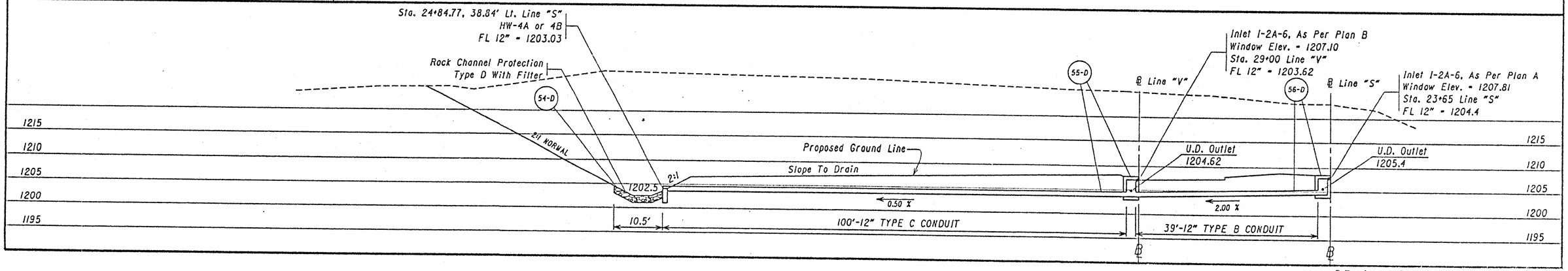
OHIO
FHWA REGION 5

75
194









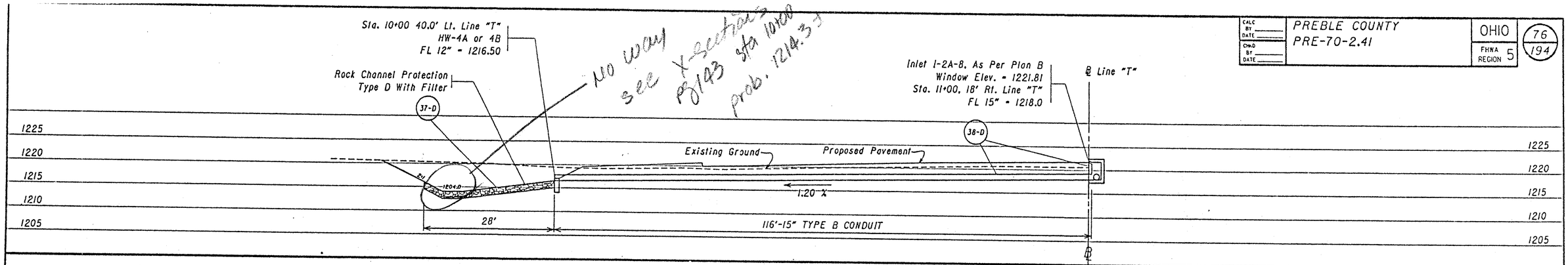
DRAINAGE PROFILE WESTFIELD

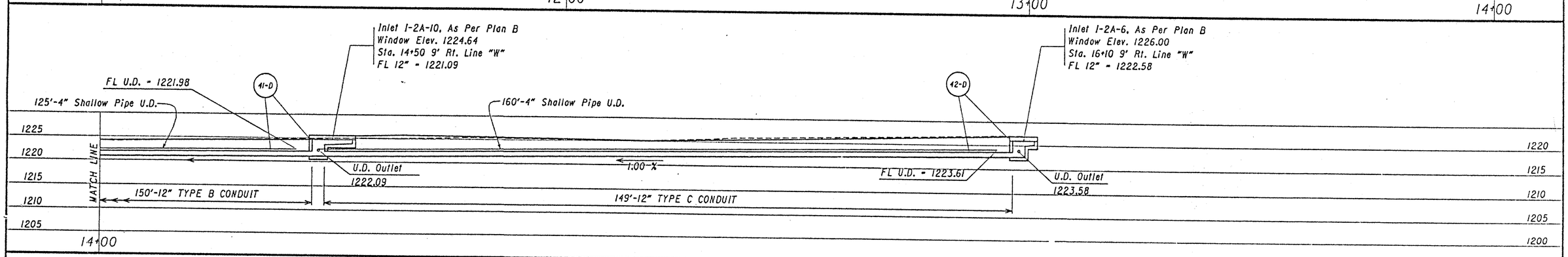
CALC BY DATE
CHKD BY DATE

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

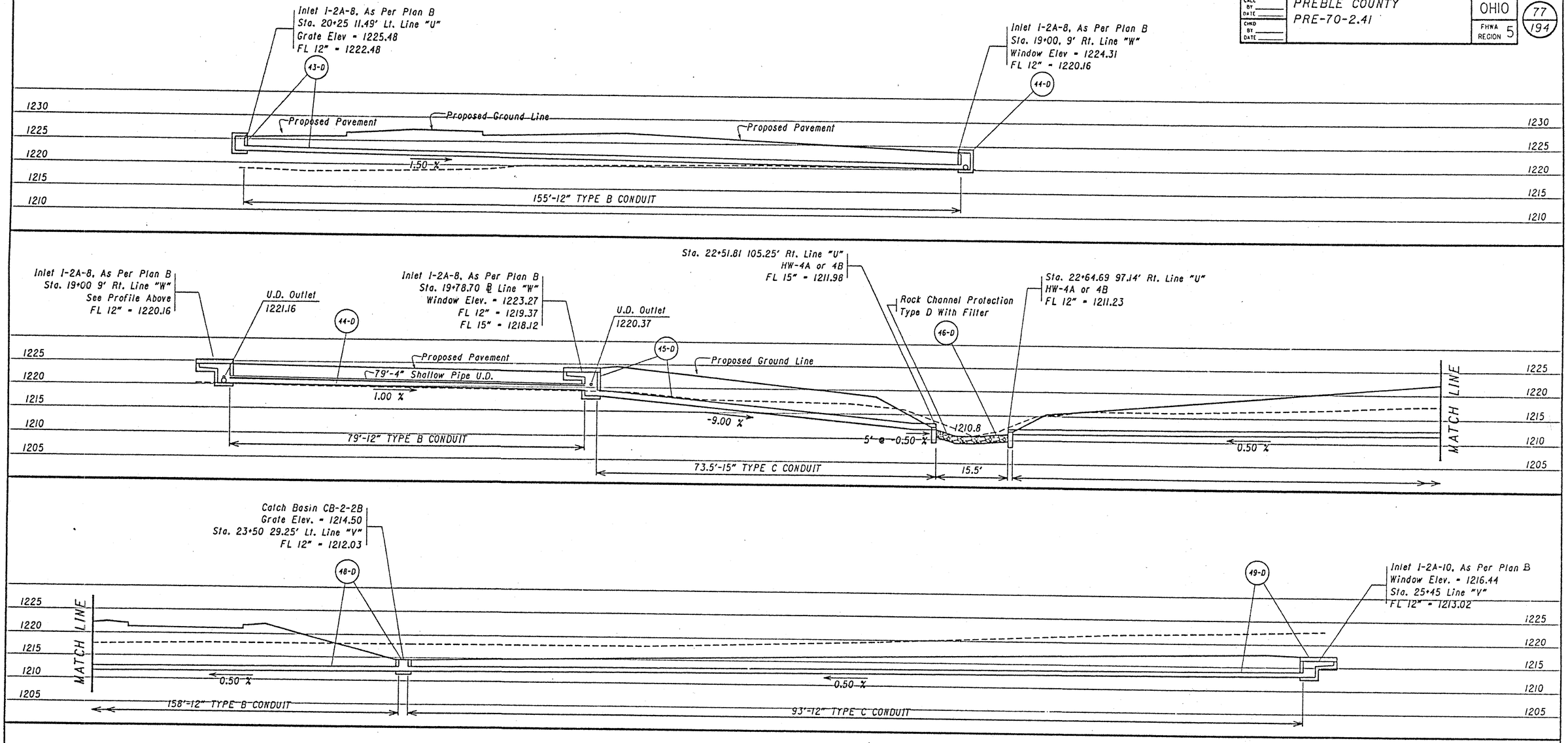
76
194





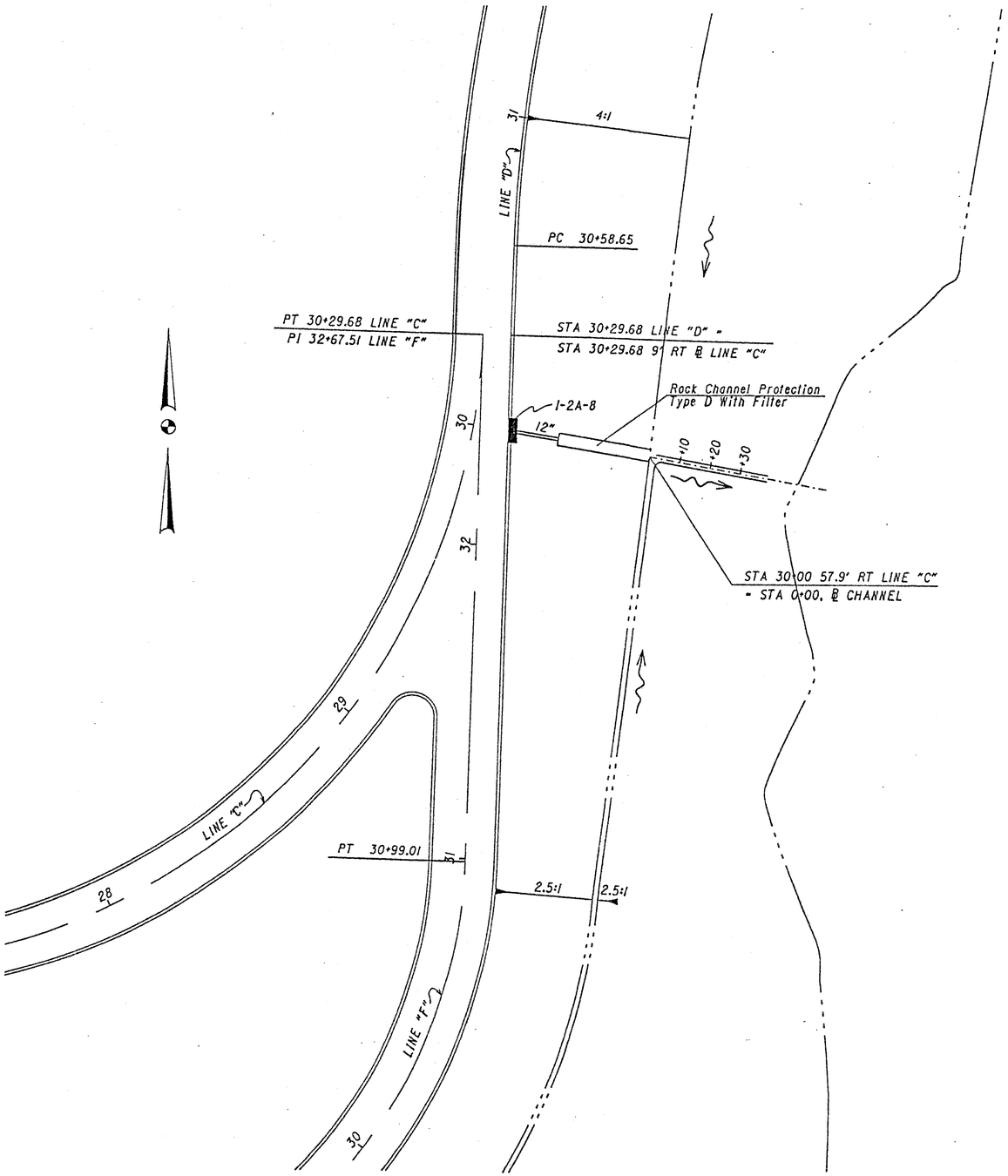
DRAINAGE PROFILE WESTBOUND

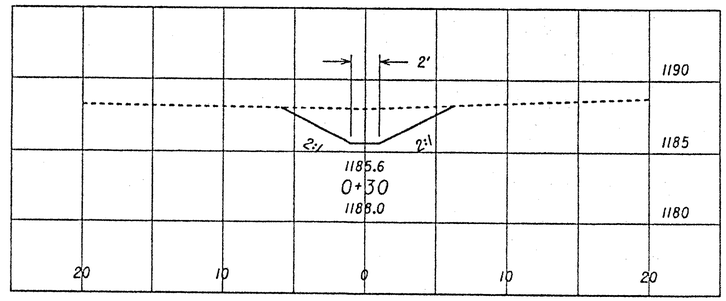
CALC BY / DATE	PREBLE COUNTY	OHIO	77
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194

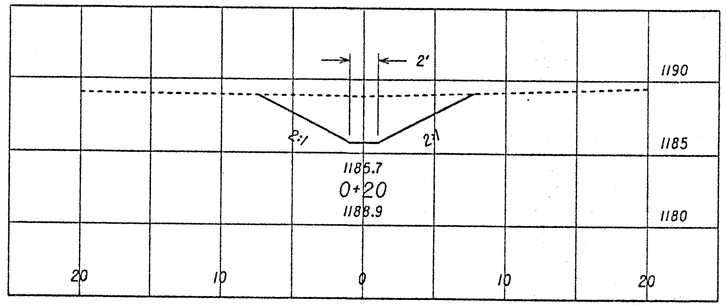


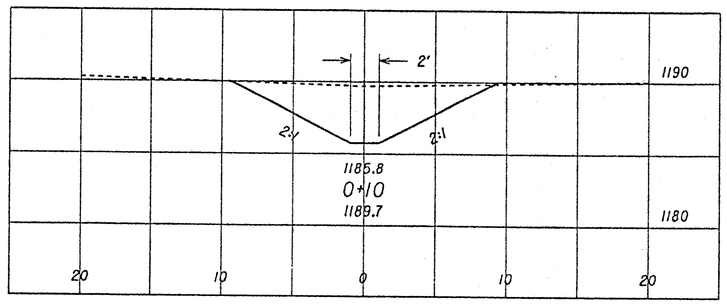
CHANNEL DETAIL EASTBOUND

CALC BY DATE	PREBLE COUNTY	OHIO	78
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194





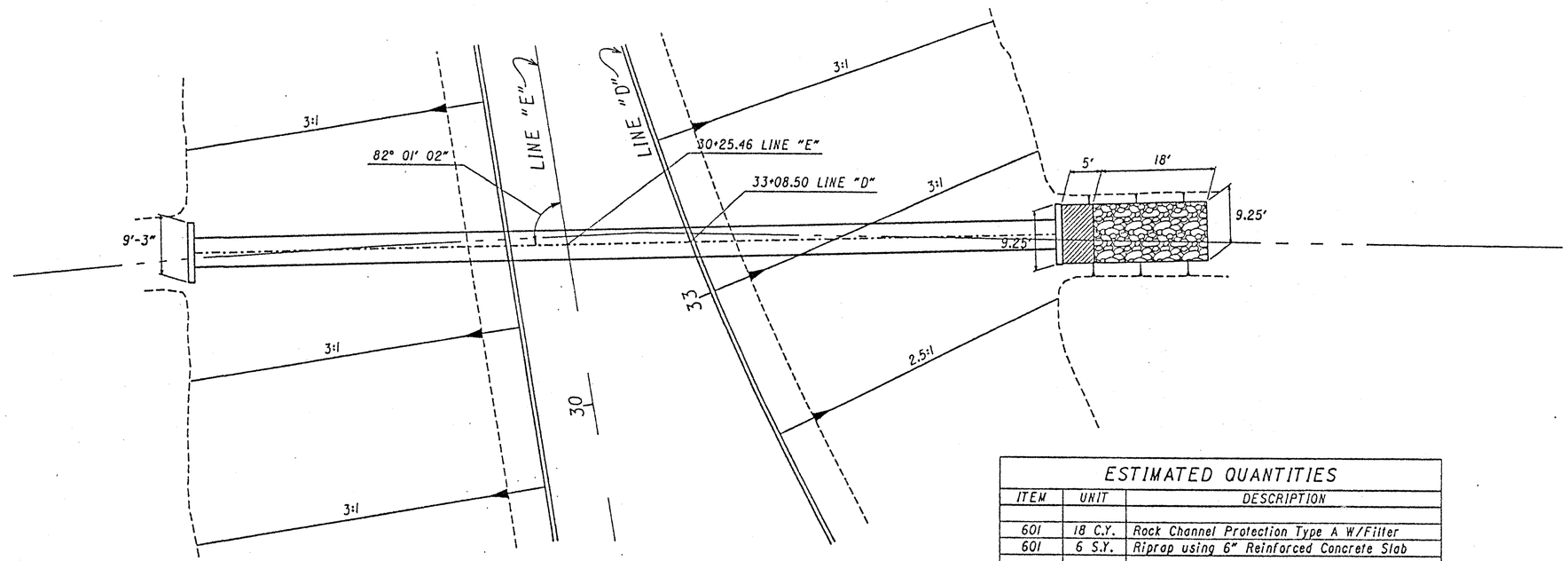




CULVERT DETAIL

STA 30+25.46, LINE "E"

CALC BY / DATE	PREBLE COUNTY	OHIO	79
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194



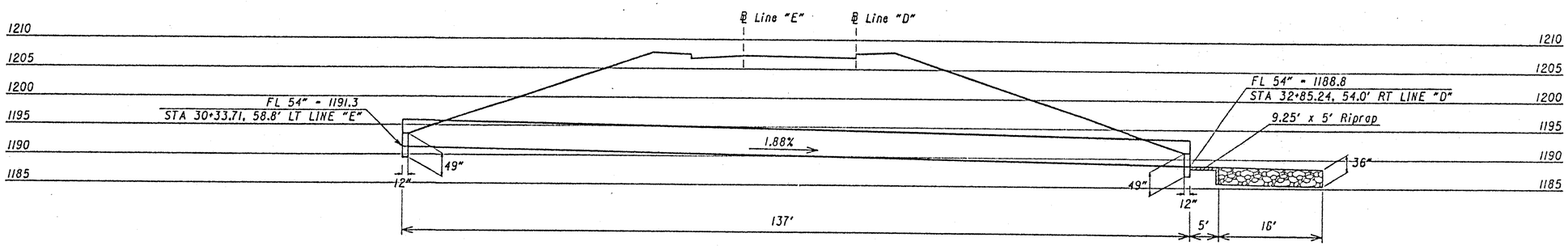
PLAN

0 20 40

Scale in Feet

DESIGN DATA
025 = 105 CFS
25yr HW = 1196.27
0100 = 126 CFS
100yr HW = 1197.20

ESTIMATED QUANTITIES		
ITEM	UNIT	DESCRIPTION
601	18 C.Y.	Rock Channel Protection Type A W/Filter
601	6 S.Y.	Riprap using 6" Reinforced Concrete Slab
602	1.33 C.Y.	Masonry
603	137 L.F.	Conduit Type A 48" 706.02 & 1250 D-Load or
		54" 707.09 (0.138) or 707.02 Field Paved, as
		per plan
Quantities Carried to General Summary		



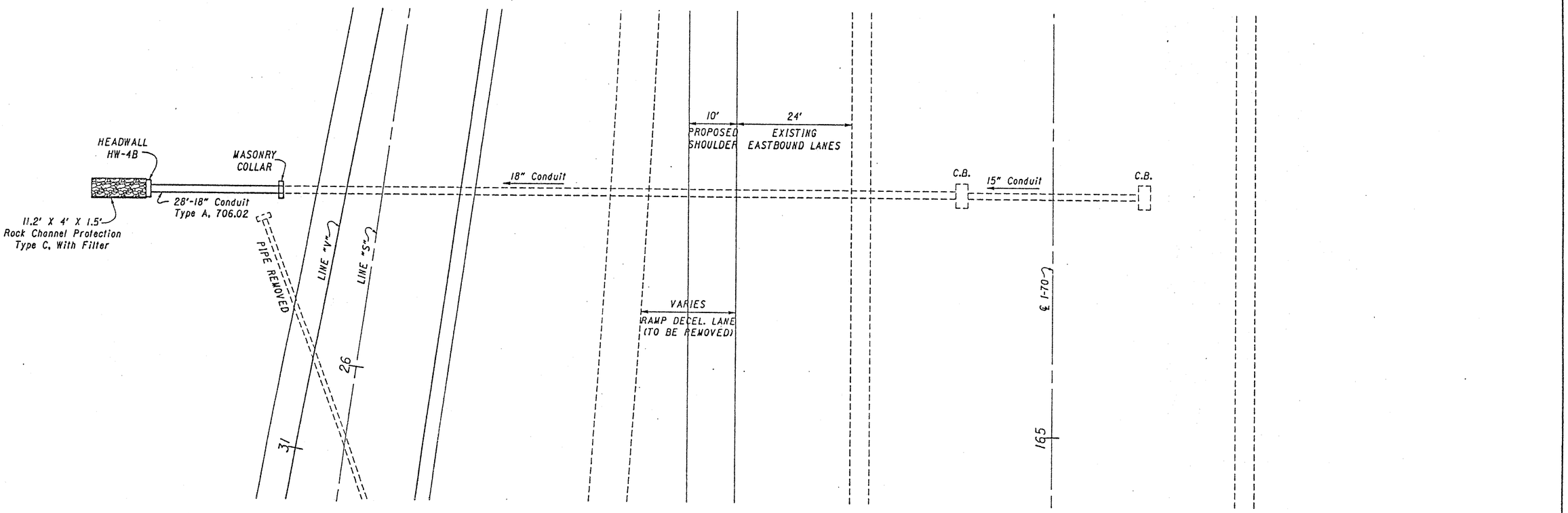
ELEVATION VIEW

0 20 40

Scale in Feet

PIPE EXTENSION

CALC BY KAJ DATE 4-1-98	PREBLE COUNTY	OHIO	80
CHKD BY J.S.B. DATE 4-1-98	PRE-70-2.41	FHWA REGION 5	194

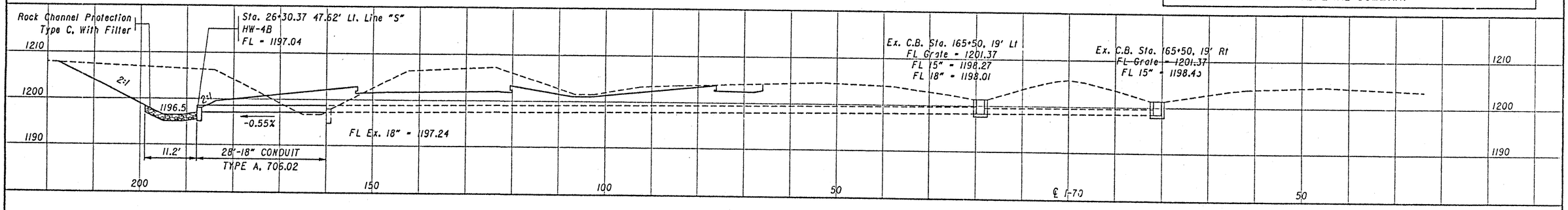


PLAN
SCALE : 1"=10'

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
601	2.5	CU. YD.	Rock Channel Protection, Type C, With Filter
602	0.62	CU. YD.	Concrete Masonry
603	28	LIN. FT.	18" Conduit, Type A, 706.02

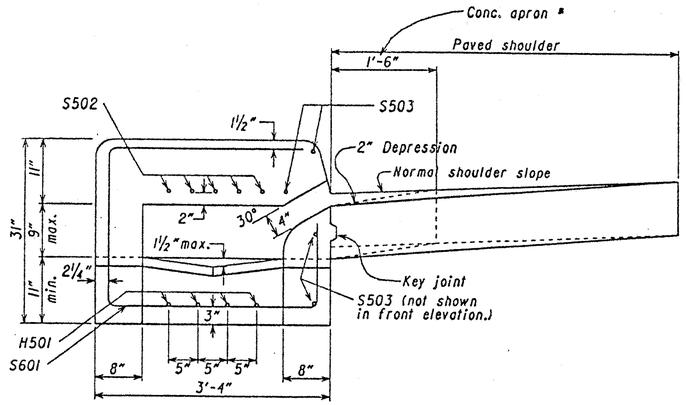
TOTALS CARRIED TO GENERAL SUMMARY



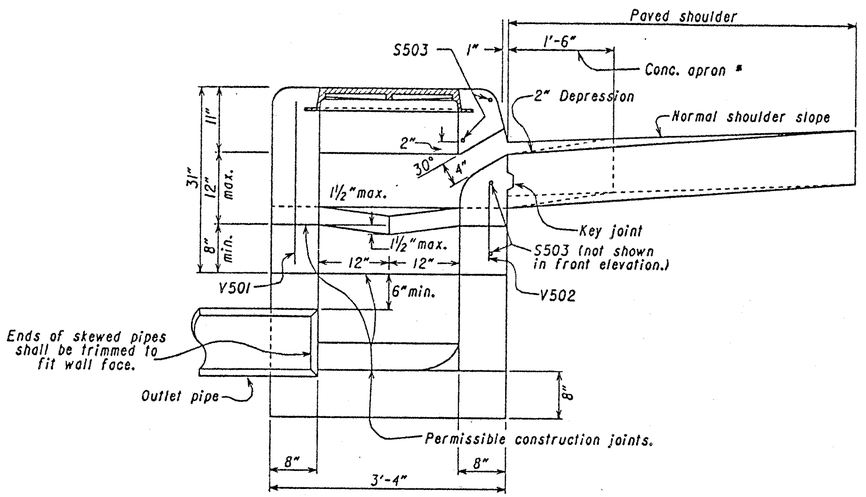
PROFILE

DRAINAGE DETAIL

CALC BY DATE	PREBLE COUNTY	OHIO	81
CHKD BY DATE	PRE-70-2.41	FHWA REGION 5	194



* Where specified a concrete apron as shown on Standard Drawing 1-2 shall be provided in lieu of the depressed shoulder shown hereon.



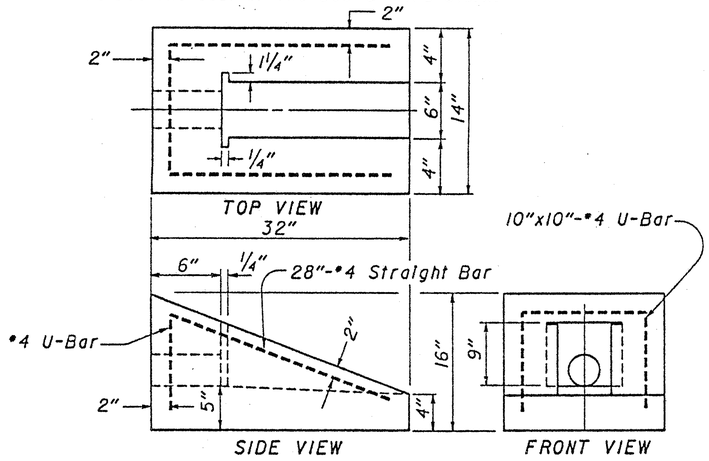
INLET 2-A-6 TO 2-A-16, AS PER PLAN

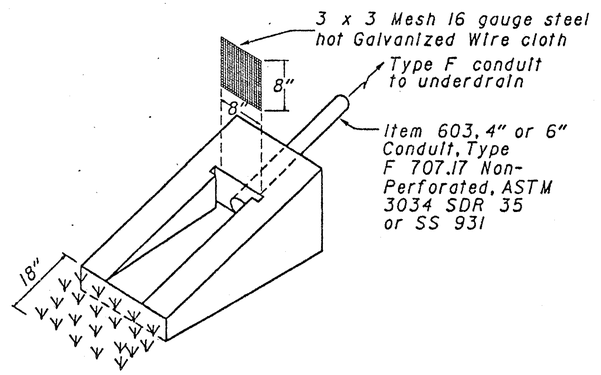
Plan A & B covered in General Notes SHT. #101/99.

CALC BY / DATE	PREBLE COUNTY	OHIO	82
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	194

ITEM SPECIAL - PRECAST REINFORCED CONCRETE OUTLET

The Concrete outlet shall meet the requirements of Item 604 in the Construction & Materials Specifications. Payment shall be made on an Each basis. Payment shall include the cost of the Sod & Wire Cloth.





NOTE: The Sod shall be in accordance with Item 660 and staked at each corner approximately 3 inches in from the edge.

DESCRIPTION: The item shall consist of furnishing and installing a pipe underdrain system or prefabricated edge drain system in accordance with the specifications, details as shown on the plans, and as directed by the Engineer.

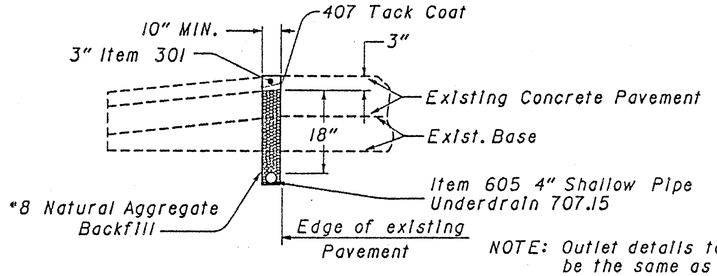
The underdrain outlets shall be placed in accordance with Item 603 as directed by the Engineer, using outlet fittings. The manufacturer shall supply outlet fittings which will make the transition between the prefabricated edge drain and the outlet pipe. Fittings shall be installed as recommended by the manufacturer.

The outlets for the underdrain system shall be constructed as soon as possible after placement of the underdrain. The outlets on crack & seat projects shall be in place and functional prior to cracking and seating the existing pavement.

METHOD OF MEASUREMENT: Completed and accepted underdrains will be measured by the linear foot in place.

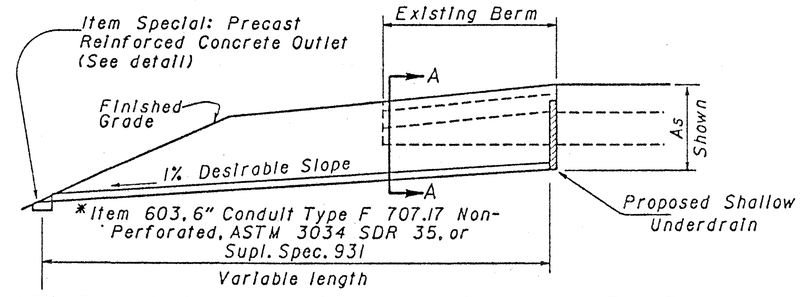
BASIS OF PAYMENT: Work completed and accepted under this item and measured will be paid for at the contract unit price bid per linear foot for Item 605 - Shallow Underdrain, as per plan. Which price shall be full compensation for excavation and backfill; removing and disposing all surplus excavation in accordance with 203; for furnishing materials, including material for splices; outlet fittings and Item 301; for all labor, tools equipment, and incidentals necessary to complete the work.

PIPE UNDERDRAIN SYSTEM



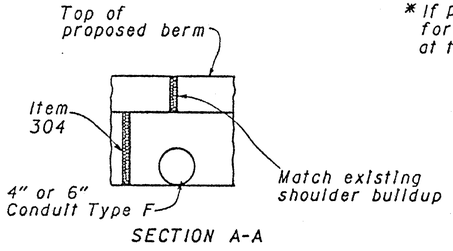
NOTE: Outlet details to be the same as shown above.

OUTLET DETAILS



NOTE: For underdrain outlets into catch basins the above Type F Conduit shall be used entirely between the underdrain & catch basin.

* If prefabricated edge drain is used then 4" Conduit shall be used for the outlet in lieu of 6" Conduit. The 4" Conduit shall be paid at the unit price bid for the 6" Conduit.



SECTION A-A

ITEM 605-SHALLOW UNDERDRAIN, AS PER PLAN

SEEDING	
END WIDTH	SQ. YDS.

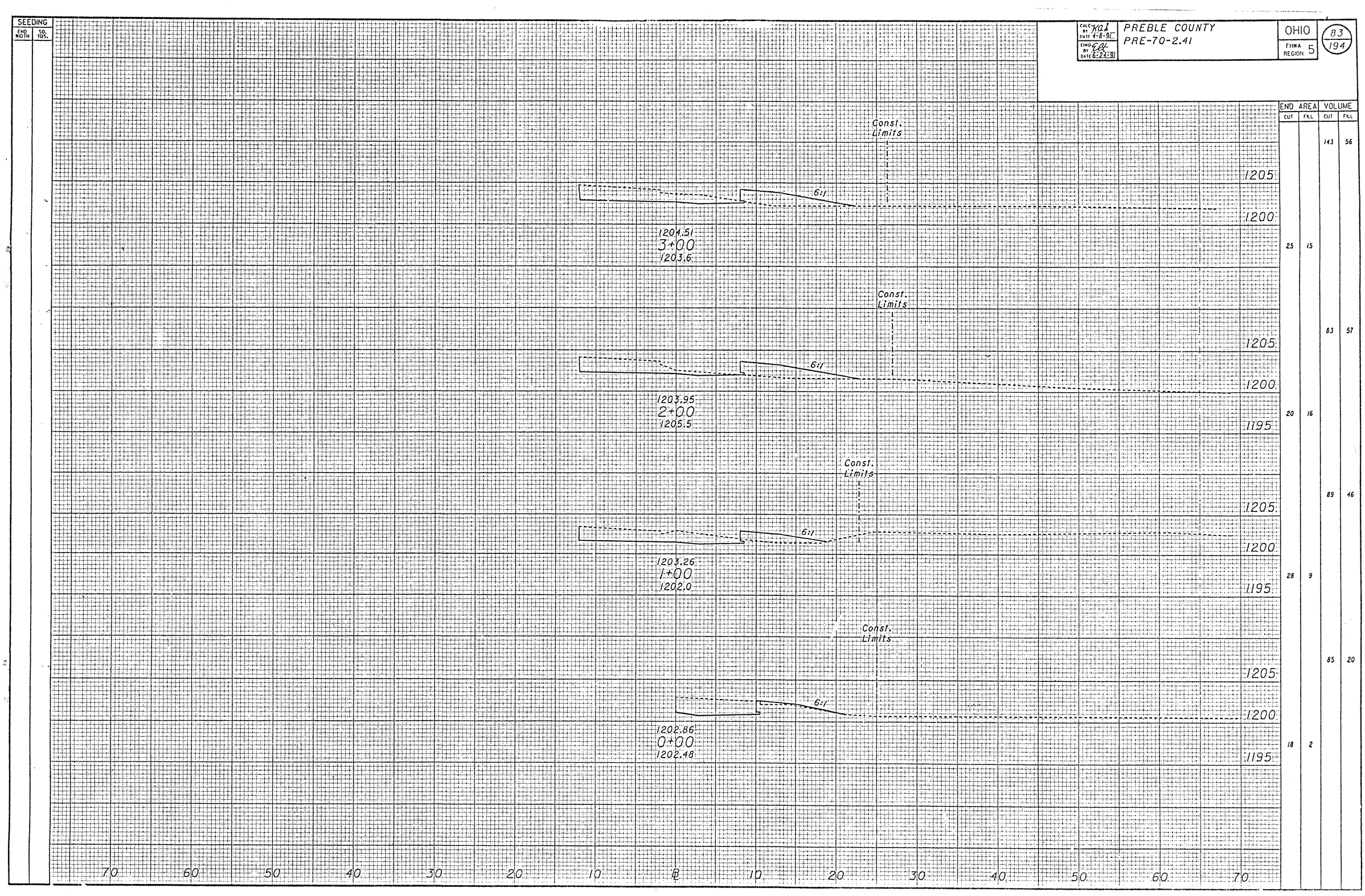
CALC BY KAL DATE 4-8-91
CHKD BY EDL DATE 6-24-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

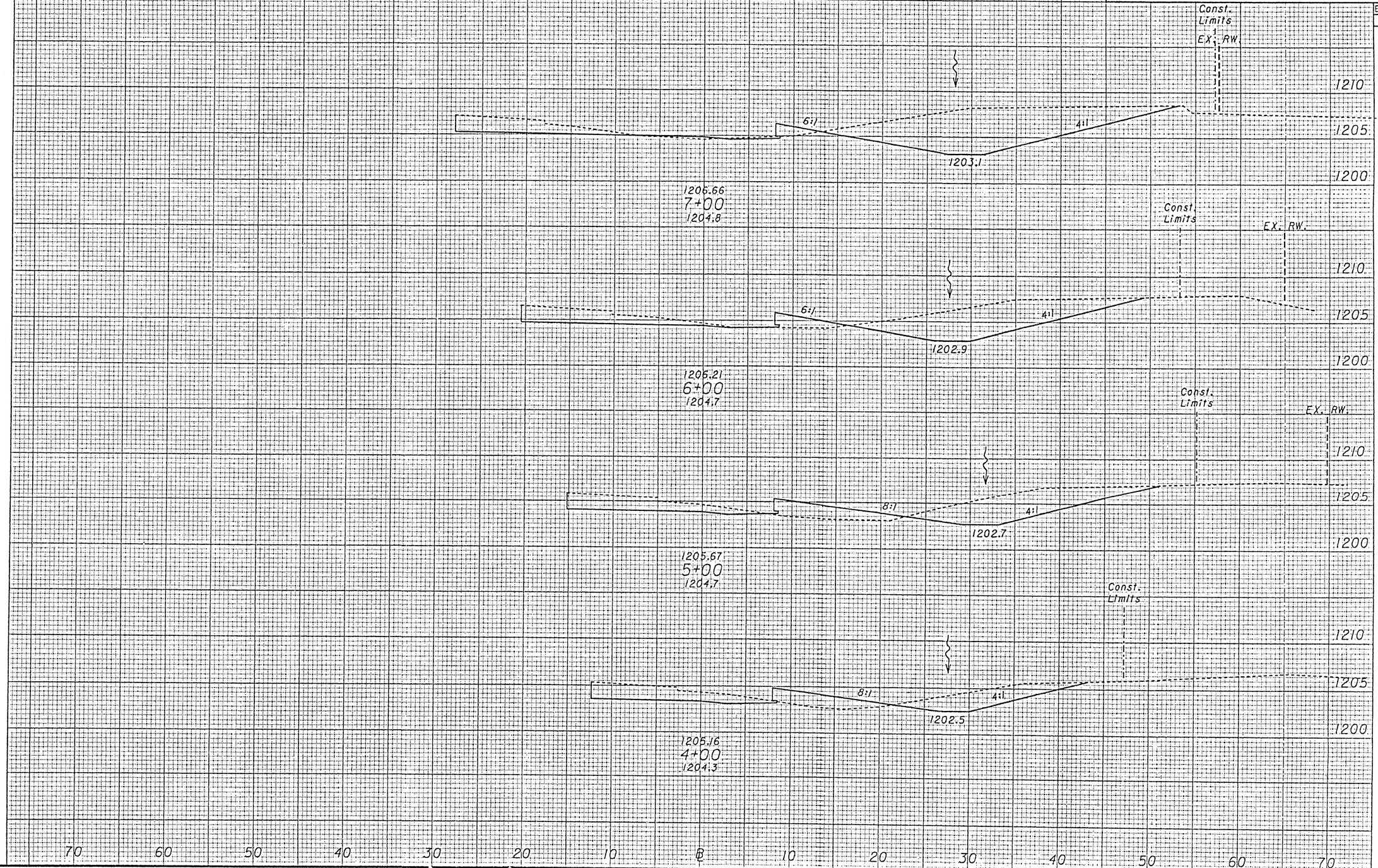
83
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		143	56
25	15		
		83	57
20	16		
		89	46
28	9		
		85	20
18	2		



SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-8-91	PREBLE COUNTY	OHIO	84
CHKD BY CAL DATE 6-21-91	PRE-70-2.41	FHWA REGION 5	194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		533	13
132	6		
		419	26
94	8		
		319	46
78	17		
		241	59
52	15		

CROSS SECTIONS STA 4+00 TO 7+00

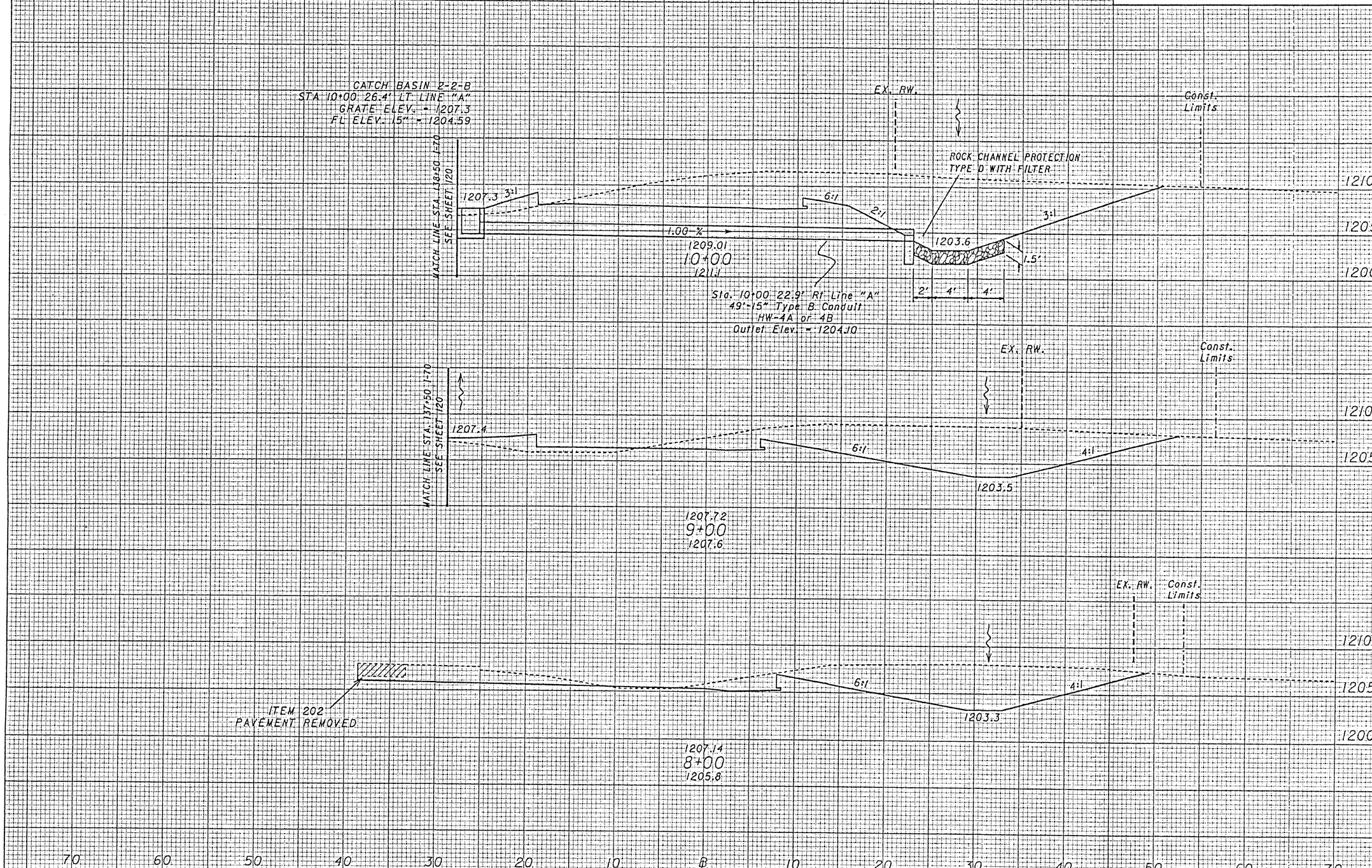
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-8-91
CHKD BY ELL DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

85
194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		674	24
264	9		
		811	46
174	16		
		611	31
156	1		

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAJ DATE 4-8-91
CHKD BY [illegible] DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

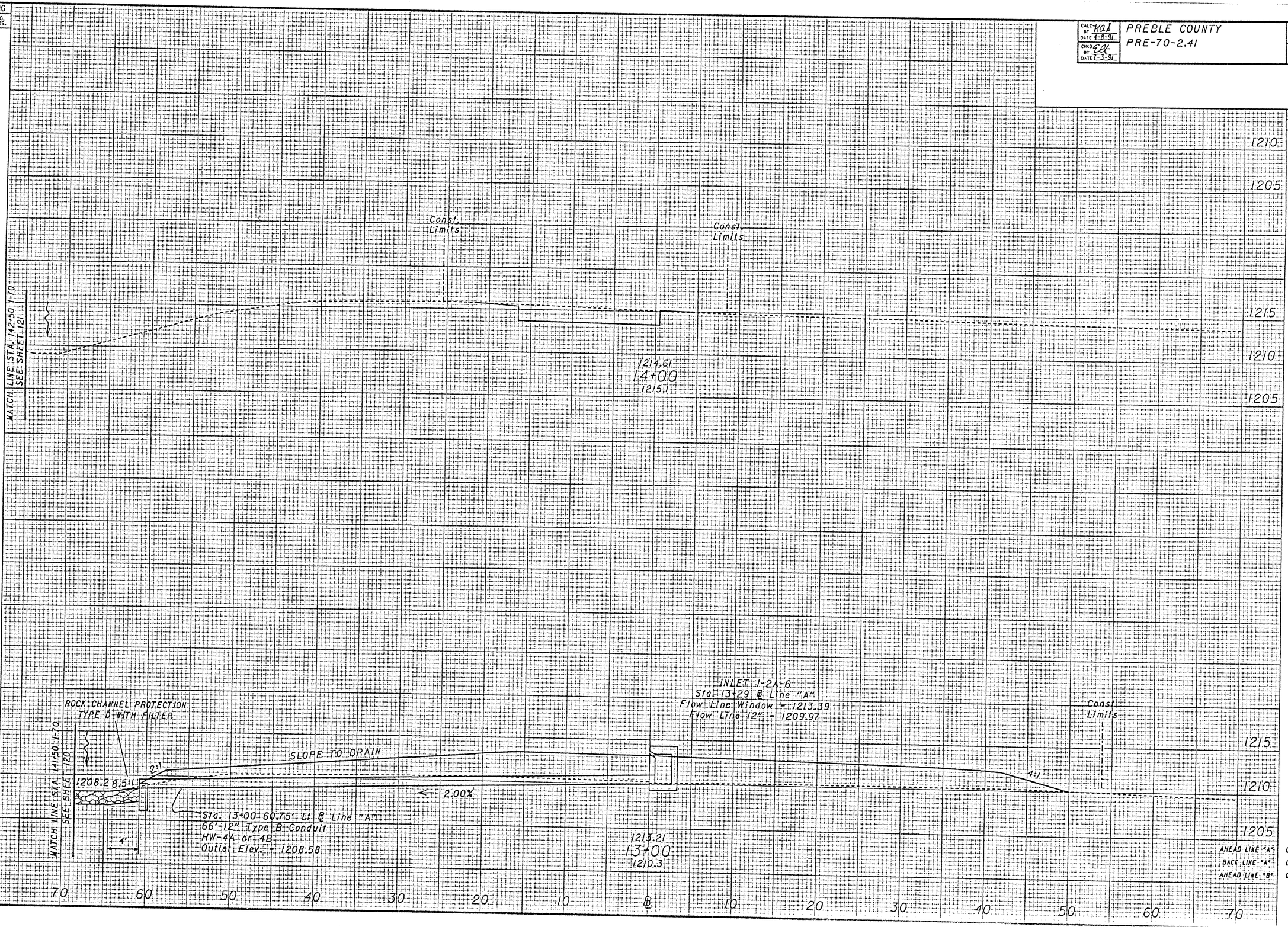
OHIO
FHWA REGION 5

86
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		78	437
42	4		
		263	15
100	4		

CALC BY Kal DATE 4-8-91	PREBLE COUNTY	OHIO	87
CHKD BY EA DATE 5-1-91	PRE-70-2.41	FHWA REGION 5	194

SEEDING END WIDTH	SEEDING SQ. YDS.

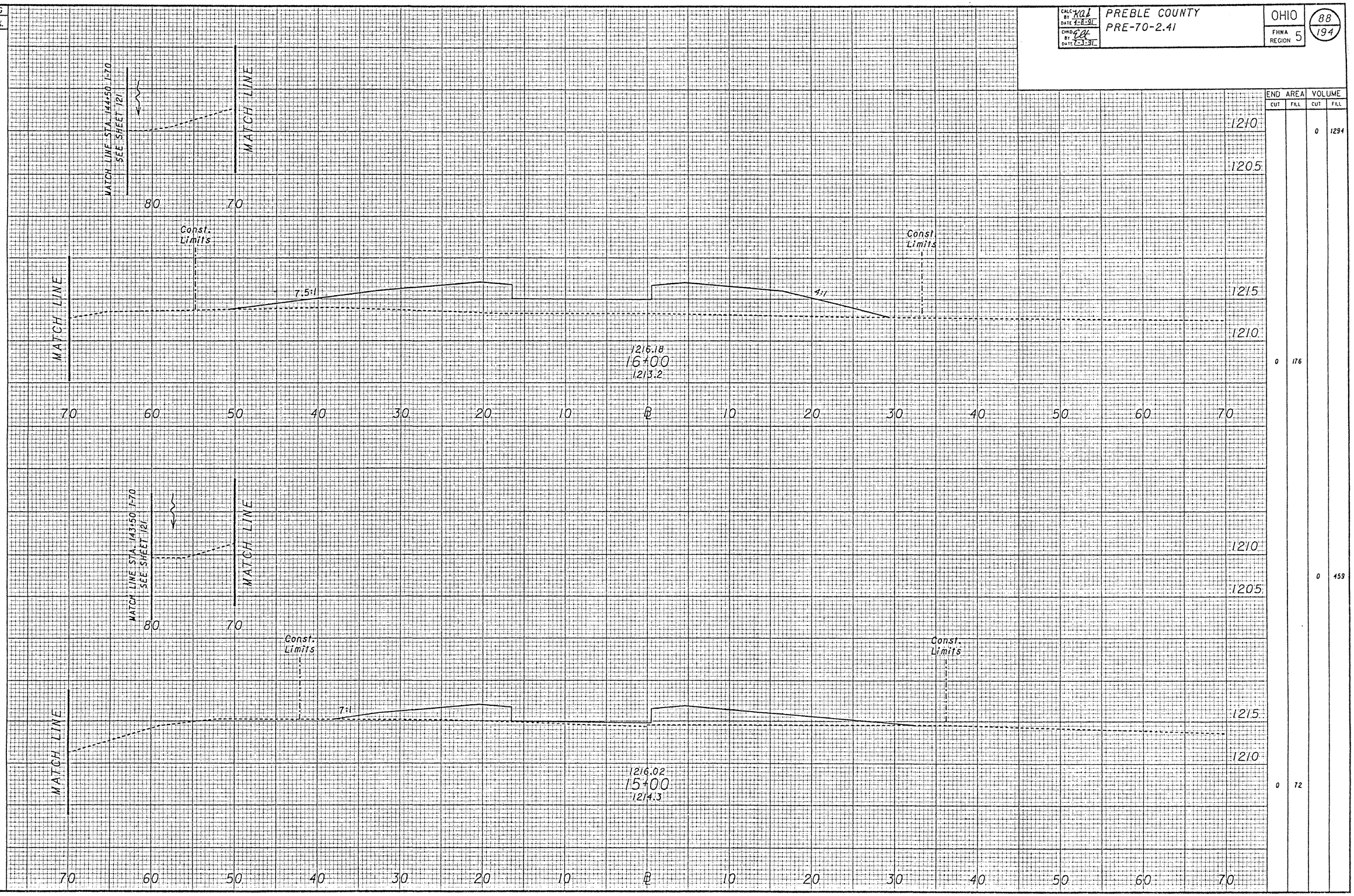


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			59	133
	32	0		
AHEAD LINE "A"	0	119		
BACK LINE "A"	0	232		
AHEAD LINE "B"	0	113		
			59	220

CALC BY Kal DATE 1-8-91	PREBLE COUNTY	OHIO	88
CHKD BY EJK DATE 2-3-91	PRE-70-2.41	FHWA REGION 5	194

SEEDING

END WIDTH	SQ. YDS.

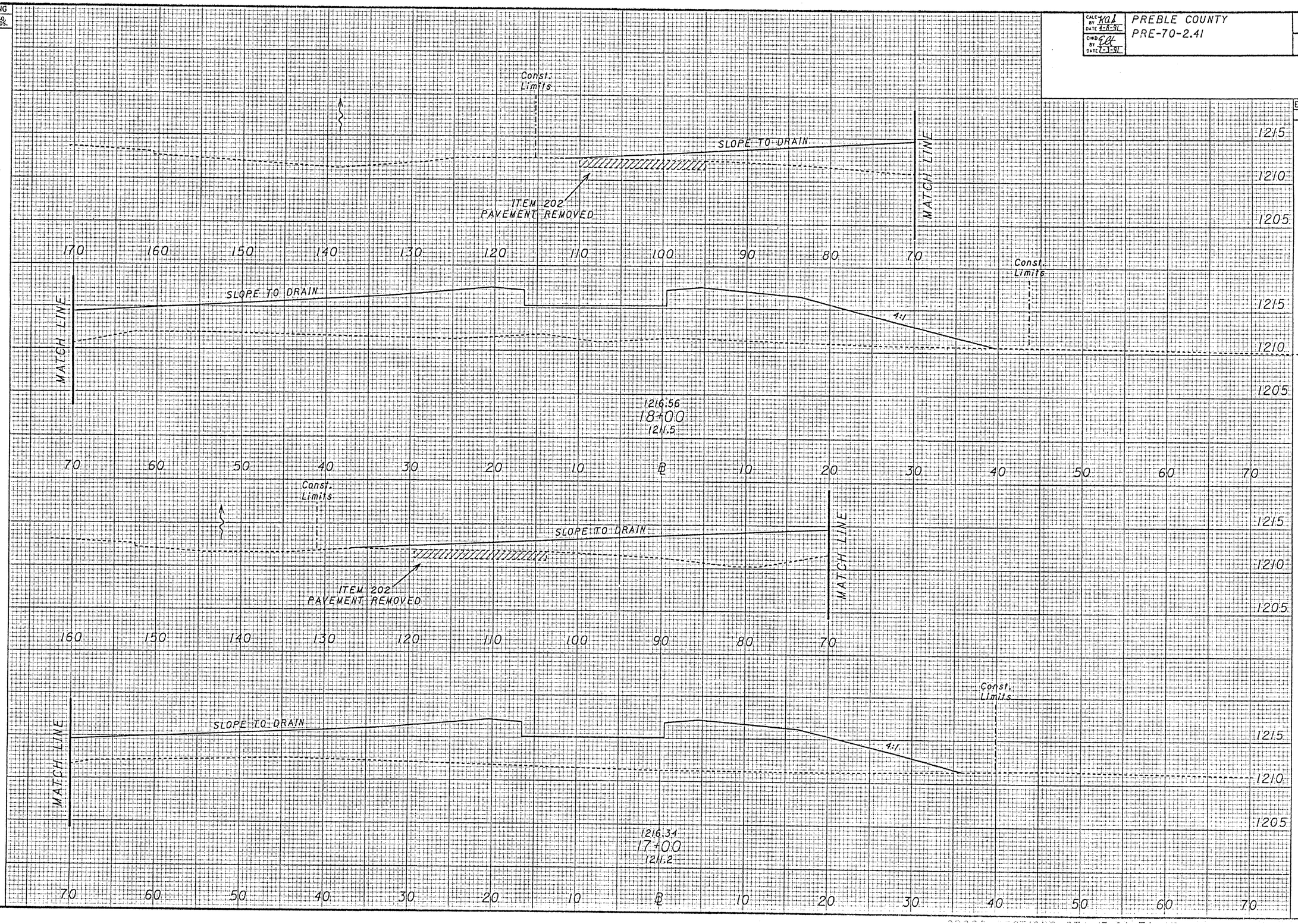


END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		0	1294
0	176		
		0	159
0	72		

CROSS SECTIONS STA 15+00 TO STA 16+00 LINE "A" EASTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY Kal DATE 4-8-91	PREBLE COUNTY	OHIO	89
CHKD BY EA DATE 7-3-91	PRE-70-2.41	FHWA REGION 5	194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	2256
0	522		
		0	1935
0	523		

CALC BY KAL DATE 1-8-97	PREBLE COUNTY	OHIO	90
CHKD BY DATE 2-3-97	PRE-70-2.41	FHWA REGION 5	194

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				15	1344
		0	646		

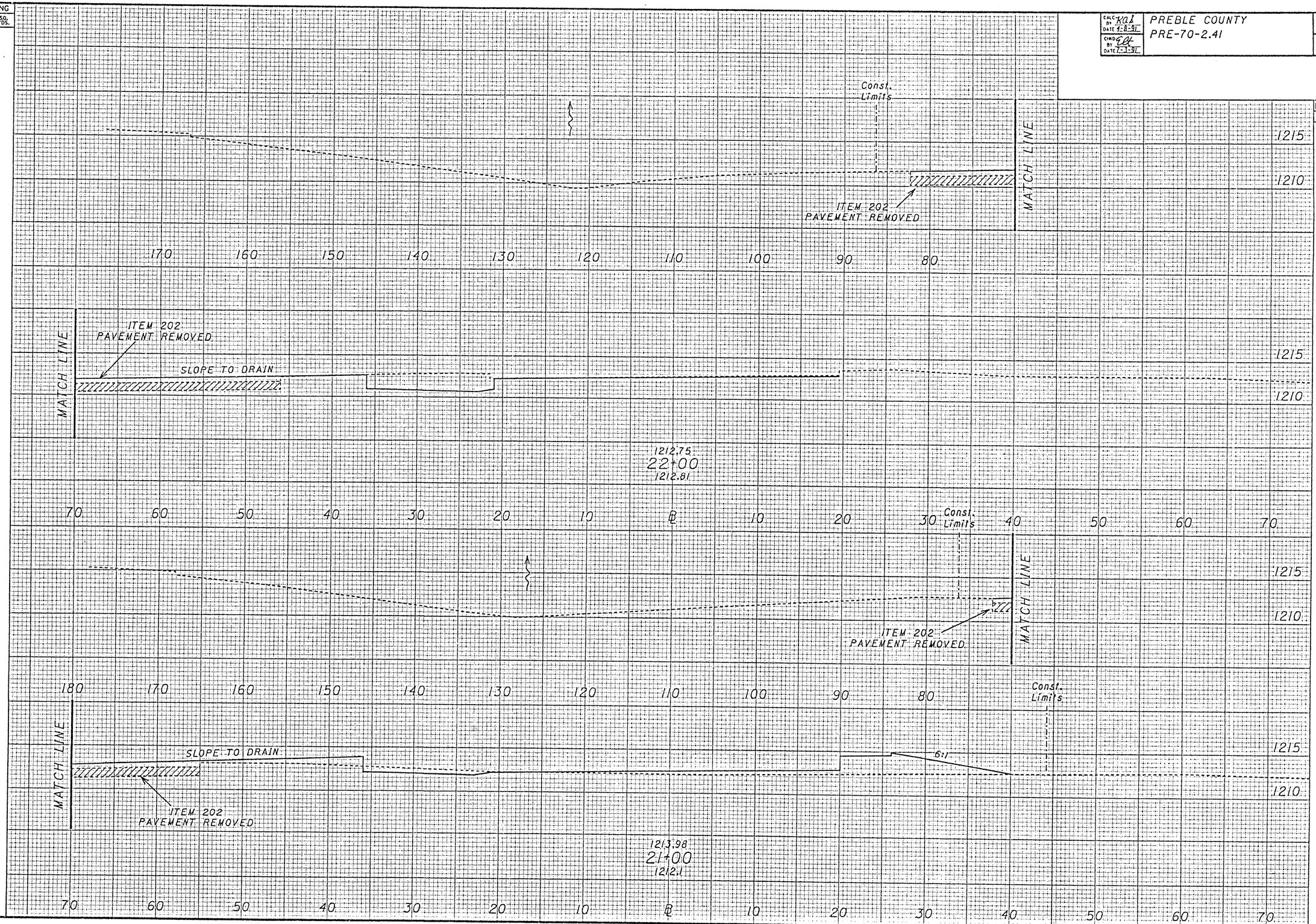
CALC BY KAL DATE 4-8-91
CHKD BY EH DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

91
194

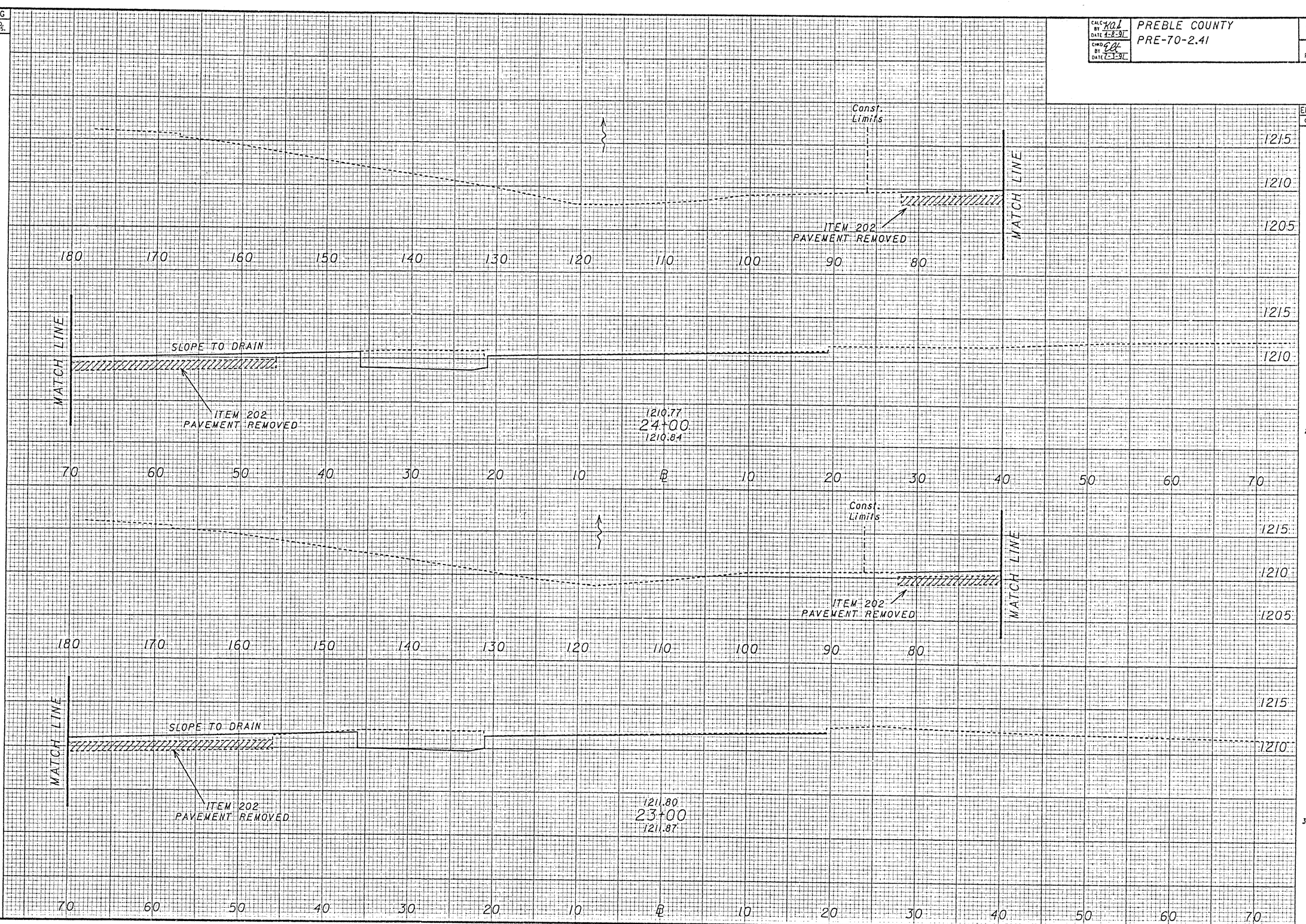
SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				169	161
		59	30		
				124	204
		8	80		



CROSS SECTIONS STA 21+00 TO STA 22+00 ARE

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-8-91	PREBLE COUNTY	OHIO	92
CHKD BY EAF DATE 7-3-91	PRE-70-2.41	FHWA REGION 5	194

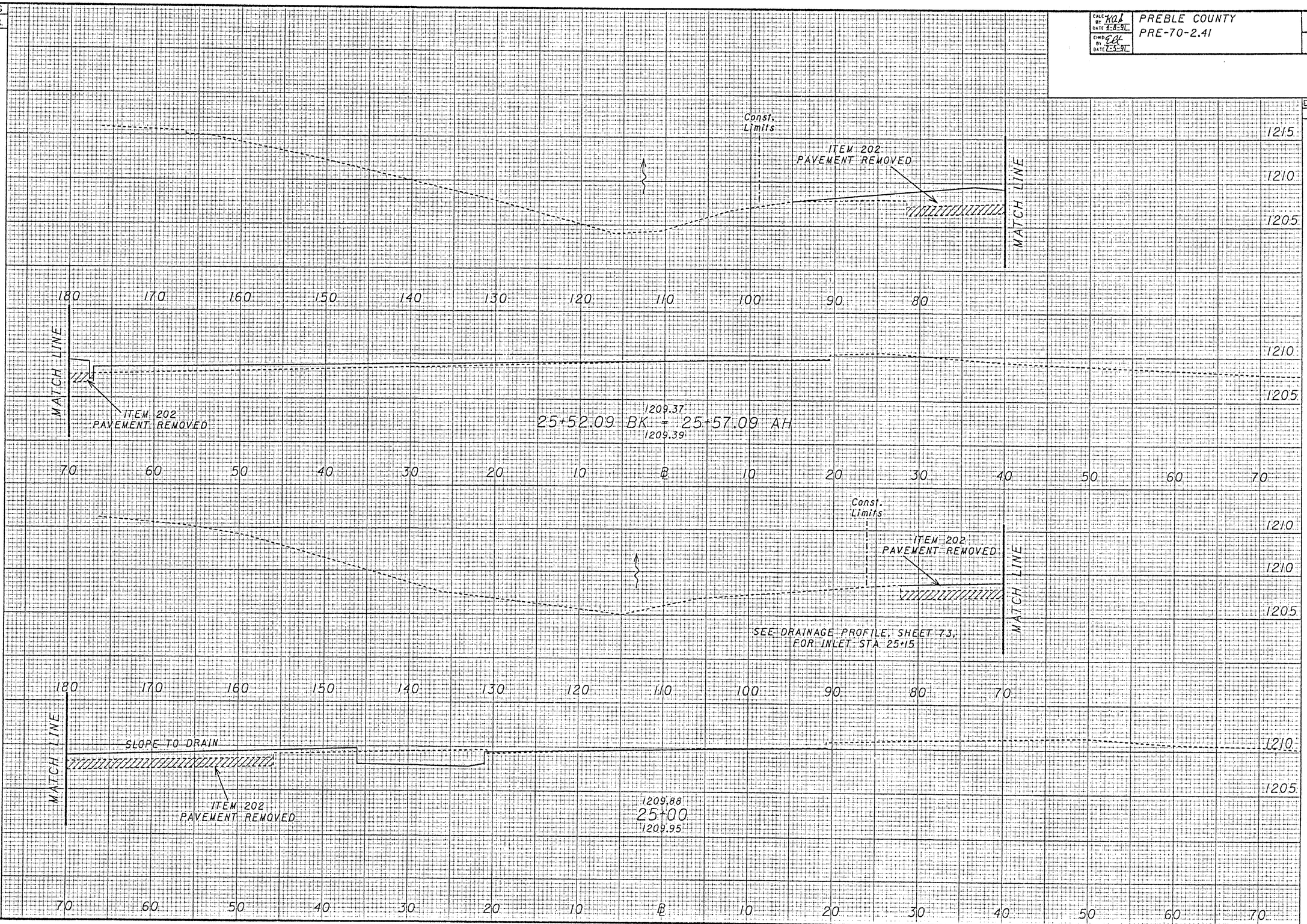


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		100	231
29	58		
		113	213
32	57		

CROSS SECTIONS STA 23+00 TO STA 24+00 LINE KAL EASTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 1-8-91	PREBLE COUNTY	OHIO	93
CHKD BY EJC DATE 7-5-91	PRE-70-2.41	FHWA REGION 5	194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	101
0	71		
		24	133
25	67		

CROSS SECTIONS STA 25+00 TO STA 25+52.09 USE KAL FACTORS

SEEDING	
END WIDTH	SQ. YDS.

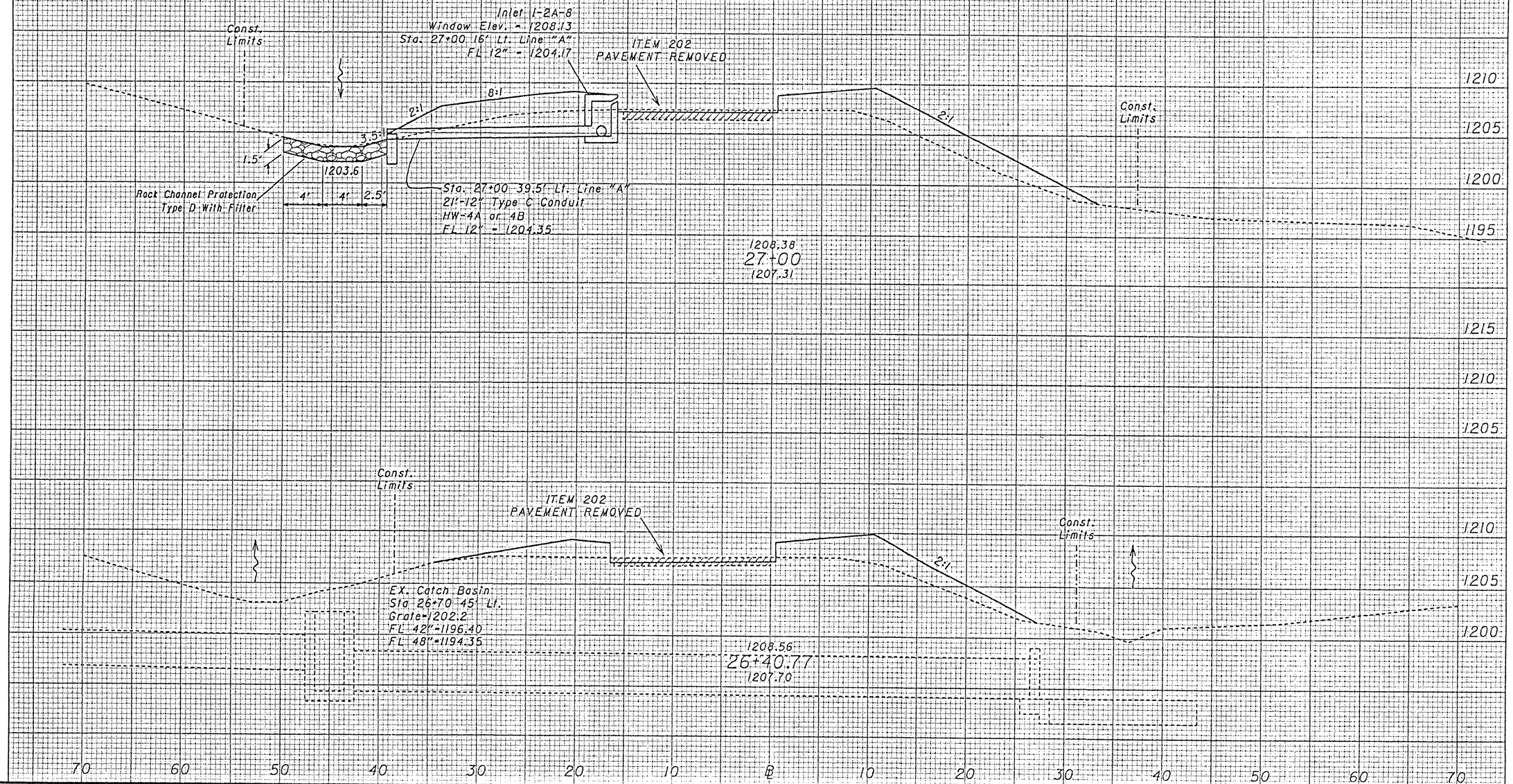
CALC BY KAL DATE 1-8-91
CHKD BY CGL DATE 1-5-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

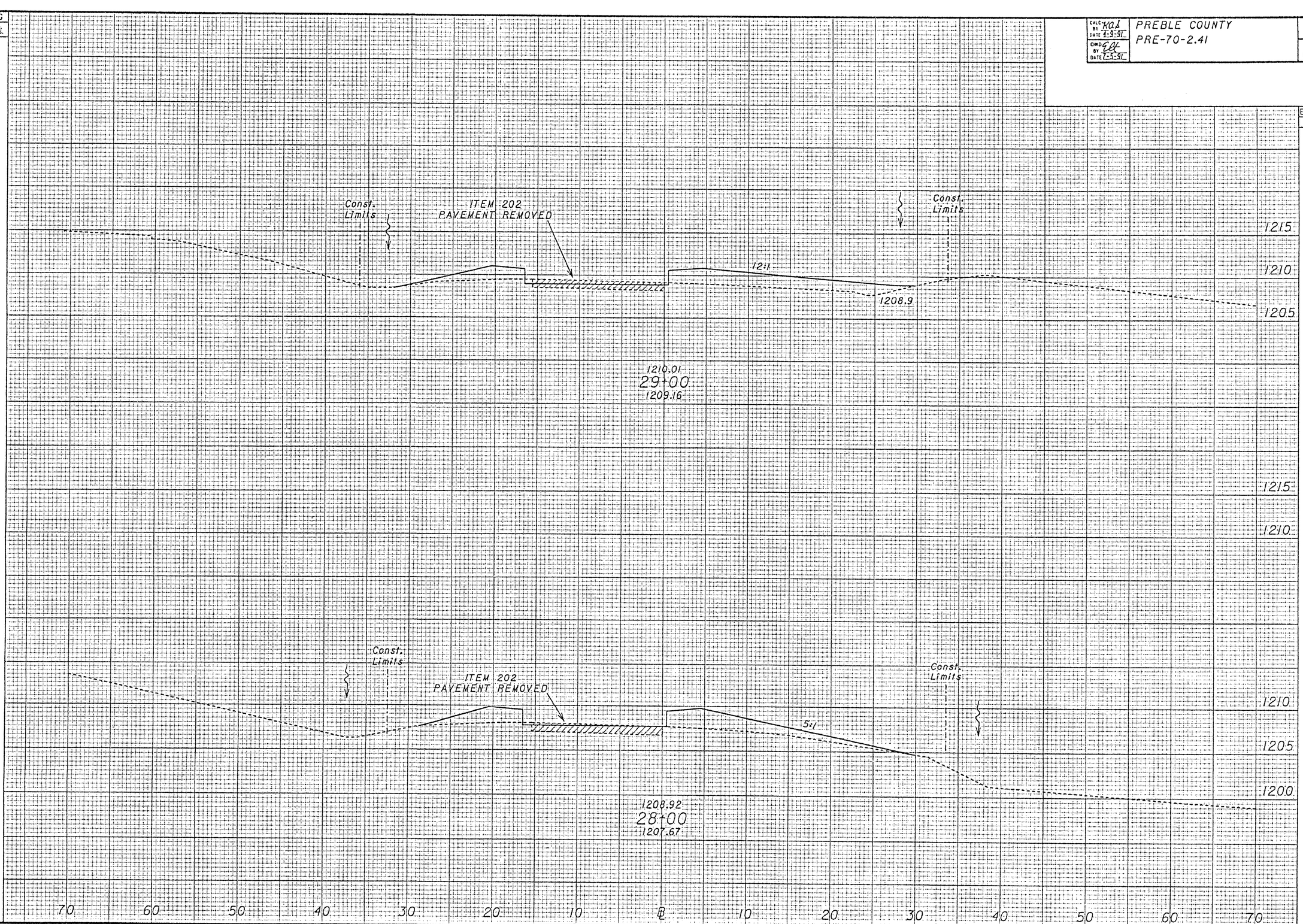
94
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		4	311
1	110		
		1	190
0	63		



SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 1-9-91	PREBLE COUNTY	OHIO	95
CHKD BY EJF DATE 2-5-91	PRE-70-2.41	FHWA REGION 5	194

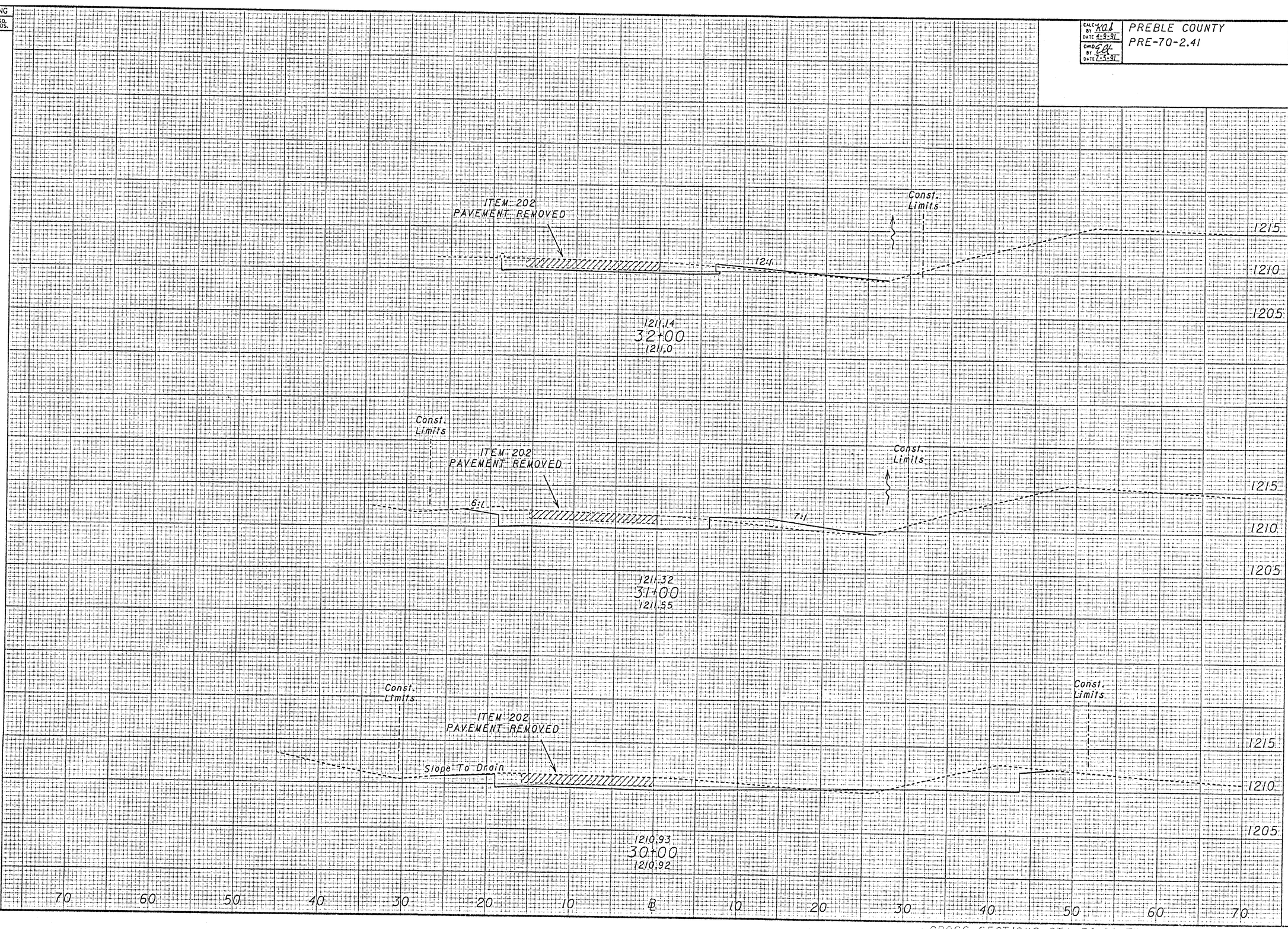


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		102	119
1	62		
4	222		
1	58		

CROSS SECTIONS STA 28+00 TO STA 29+00 LINE "A" RIGHT AND

CALC BY Kal DATE 4-9-91	PREBLE COUNTY	OHIO	96
CHKD BY Ek DATE 7-5-91	PRE-70-2.41	FHWA REGION 5	194

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				85	26
		17	4	87	26
		30	10	159	22
		56	2		



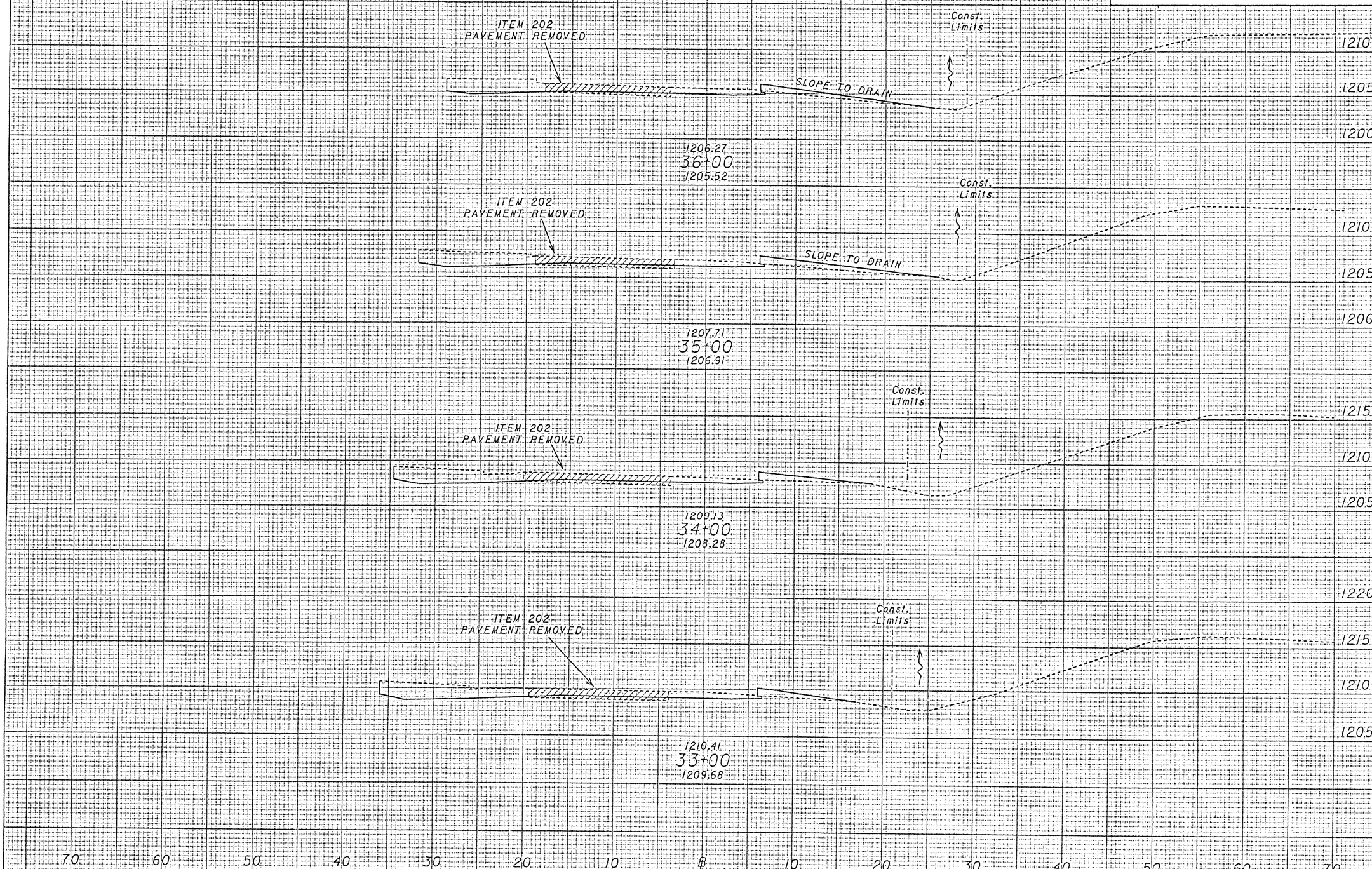
CROSS SECTIONS STA 30+00 TO STA 32+00

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-9-91
CHKD BY EBL DATE 7-5-91

PREBLE COUNTY
PRE-70-2.41

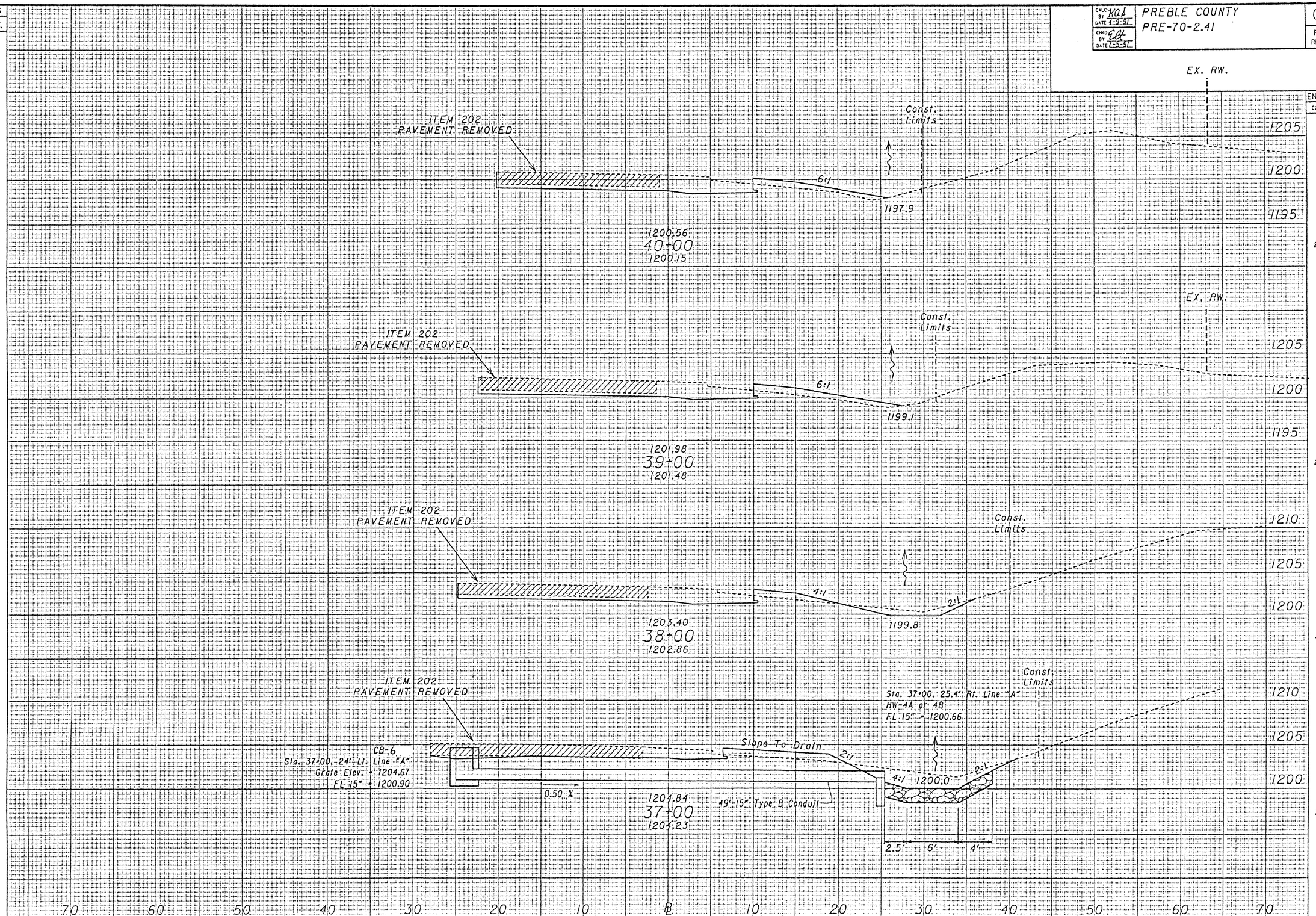
OHIO
FHWA REGION 5



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		109	39
24	10		
		91	44
25	14		
		91	44
24	10		
		98	37
29	10		

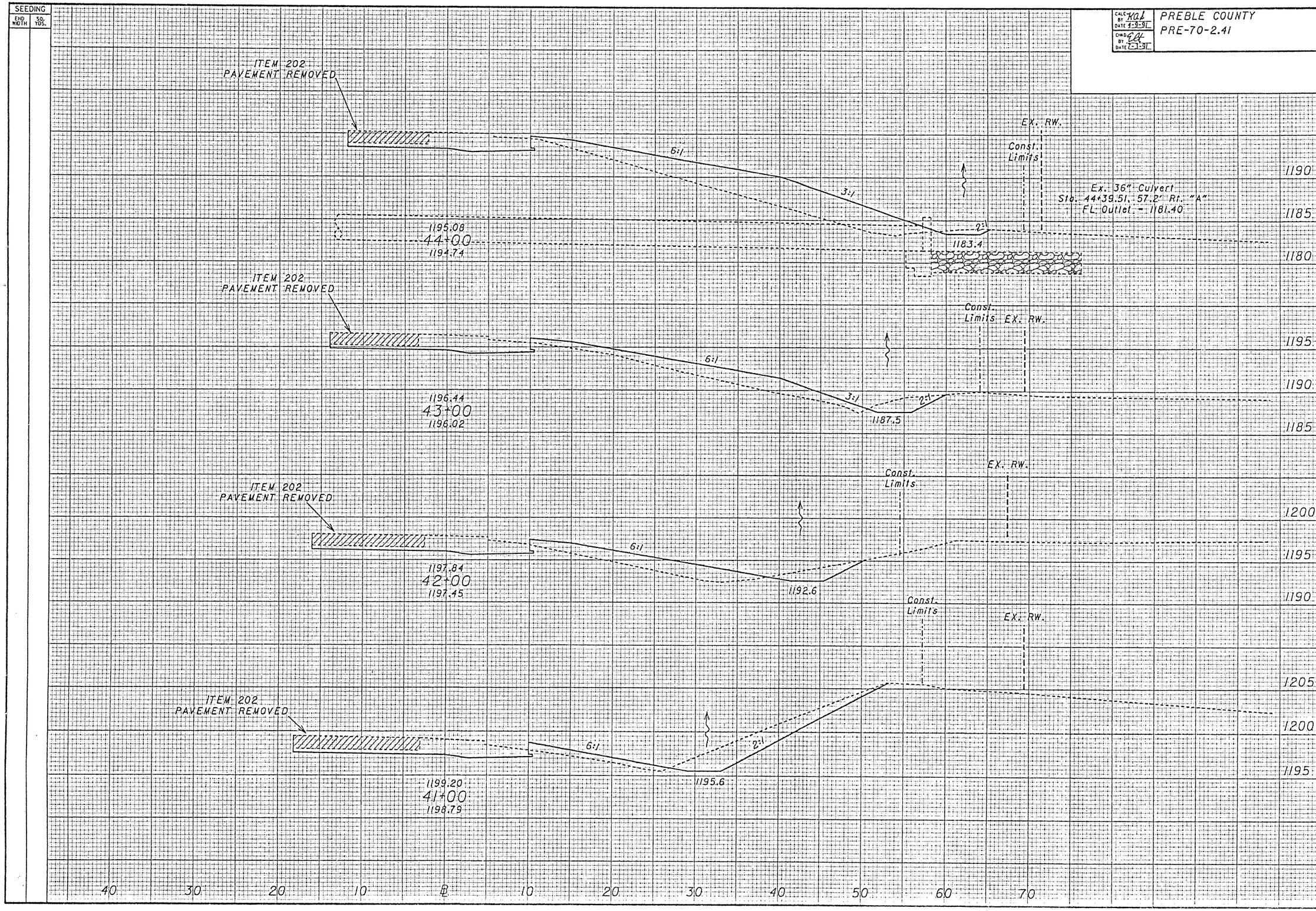
CROSS SECTIONS STA 33+00 TO STA 36+00 LINE "A" EASTBOUND

CALC BY KAL DATE 4-9-91	PREBLE COUNTY PRE-70-2.41	OHIO	98 / 194
CHKD BY EAL DATE 7-5-91		FHWA REGION 5	



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		167	35
26	8		
		96	33
26	10		
		117	30
37	6		
		133	31
35	11		

CALC BY KAL DATE 4-9-91	PREBLE COUNTY PRE-70-2.41	OHIO	99 / 194
CHKD BY ELL DATE 7-3-91		FHWA REGION 5	



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		93	43
29	106		
		122	278
37	44		
		139	148
38	36		
		189	87
64	11		

SEEDING	
END WIDTH	SQ. YDS.

CALC BY XAL DATE 1-9-91	PREBLE COUNTY	OHIO	100
CHKD BY CLL DATE 2-1-91	PRE-70-2.41	FHWA REGION 5	194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		100	48
32	9		
		102	30
23	7		
		87	150
24	74		

ITEM 202
PAVEMENT REMOVED

Const. Limits

EX. RW.

1195
1190
1185
1180

12:1

4:1

1189.0

1191.04
47+00
1190.56

ITEM 202
PAVEMENT REMOVED

Const. Limits

EX. RW.

6:1

1192.44
46+00
1192.00

ITEM 202
PAVEMENT REMOVED

EX. RW.

Const. Limits

6:1

1193.75
45+00
1193.37

40 30 20 10 ℄ 10 20 30 40 50 60 70

CROSS SECTIONS STA 45+00 TO STA 47+00 LINE "A" EASTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY	KAL
DATE	1-9-91
CHKD BY	EAL
DATE	1-31-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

101
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
20	21		
		78	70
22	17		

Const. Limits
1190
1185
1180
6:1
1188.33
49+00
1187.90

ITEM 202
PAVEMENT REMOVED
Const. Limits
1190
6:1
1185
2:1
1189.66
48+00
1189.24
1184.1
1180
Ex. 27" Culvert
Sta. 48+69.25, 38.7' Rt. "A"
F.L. Outlet = 1179.92

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

CROSS SECTIONS STA 48+00 TO STA 49+00 LINE "A" EASTBOUND

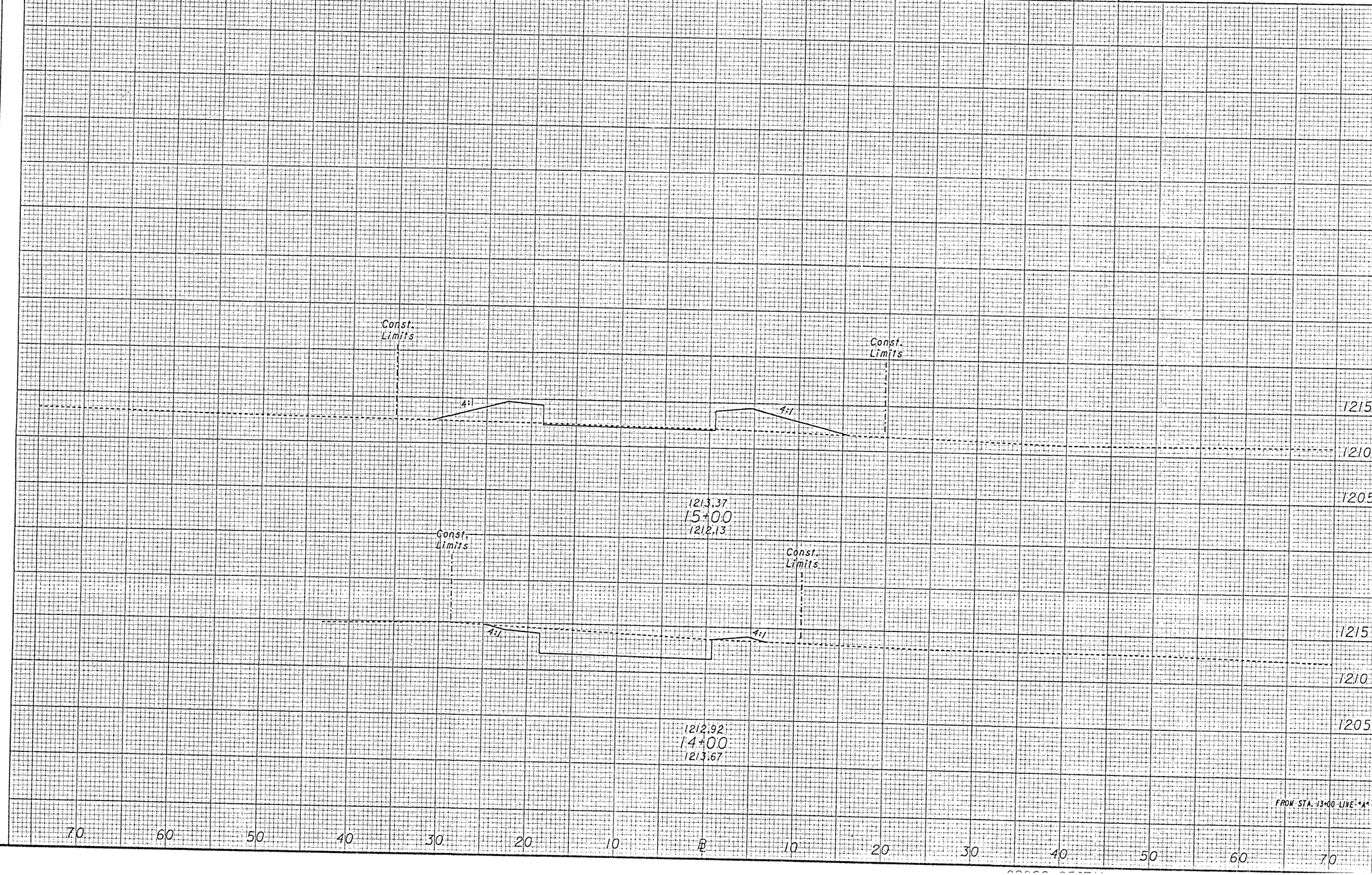
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-9-91
CHKD BY ELL DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

102
194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		6	280
3	40		
		96	76
49	1		
		89	207
0	113		

FROM STA. 13+00 LINE "A"

SEEDING	
END WIDTH	SQ. YDS.

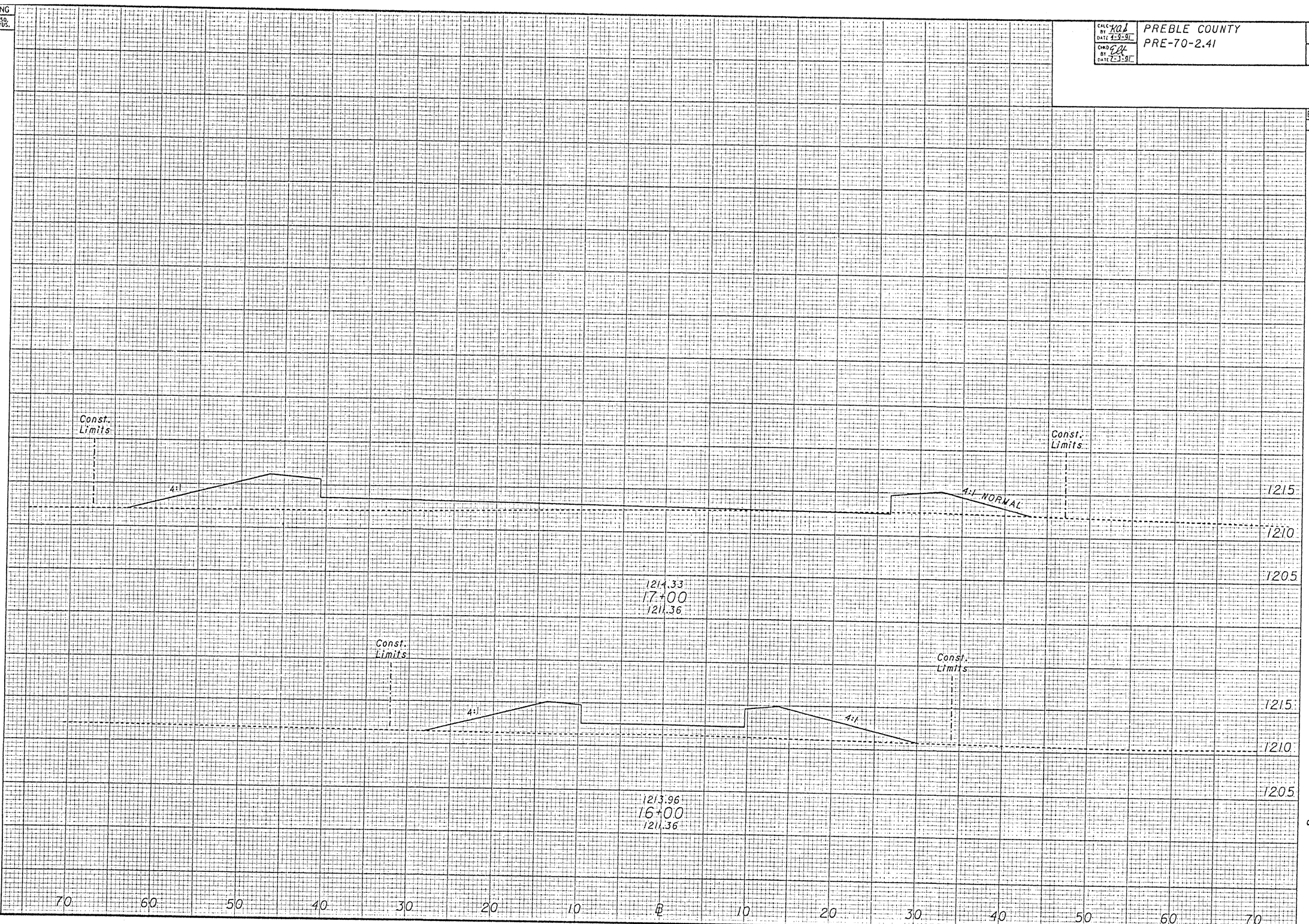
CALC BY KAL DATE 1-9-91
CHKD BY GLK DATE 2-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

103
194

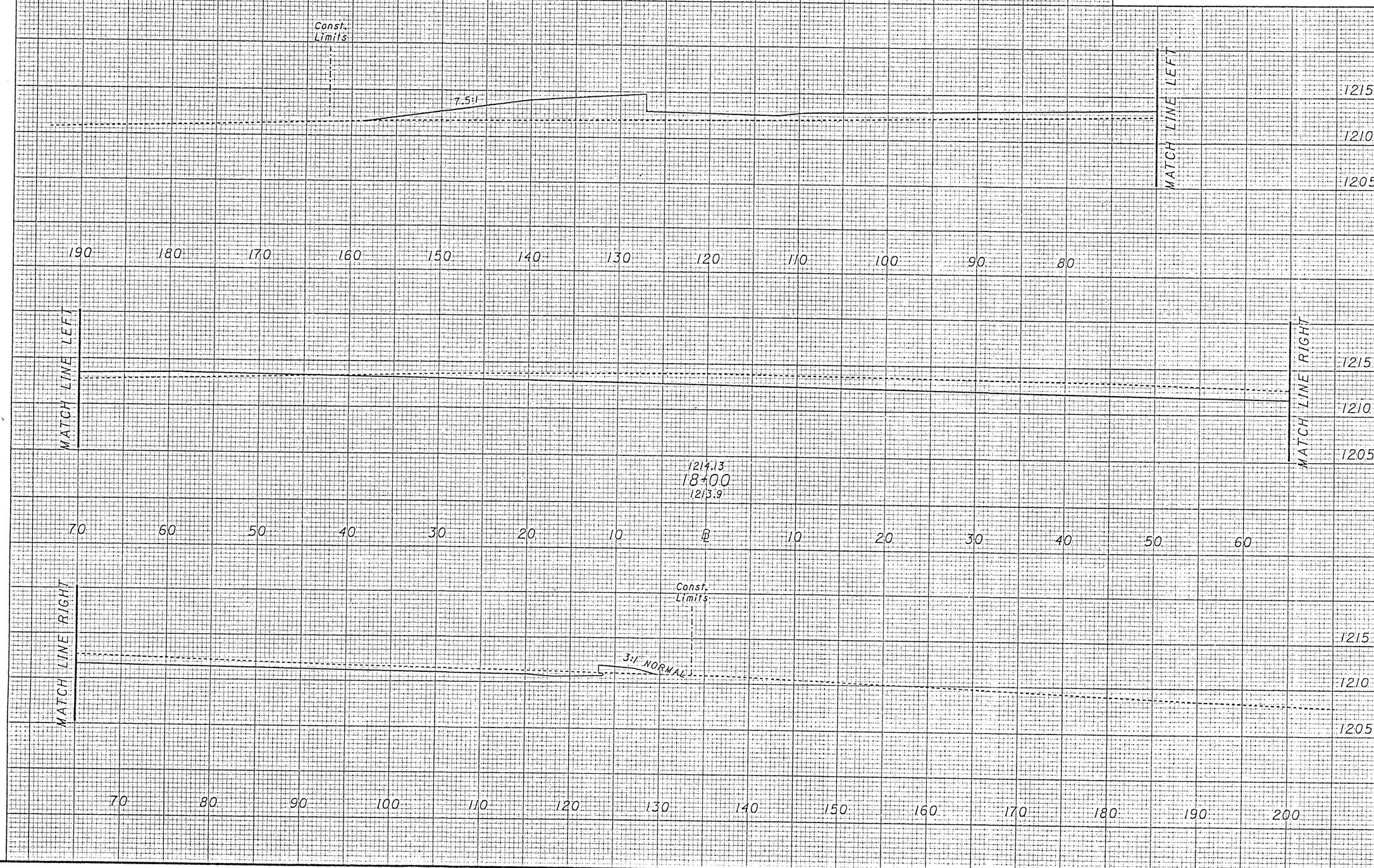
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		276	441
0	126		
		0	439
0	111		



CROSS SECTIONS STA 16+00 TO STA 17+00

SEEDING	
END WIDTH	SQ. YDS.

CALC. BY KAS DATE 4-9-91	PREBLE COUNTY PRE-70-2.41	OHIO	104 / 194
CHKD. BY EEL DATE 7-3-91		FHWA REGION 5	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2369	207
149	112		

CROSS SECTIONS STA 18+00 LINE "C" EAST

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 1-9-91	PREBLE COUNTY	OHIO	105
CHKD BY EAL DATE 2-3-91	PRE-70-2.41	FHWA REGION 5	194

FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BUILDING, SEE SHEET 18.1.

Const. Limits

MATCH LINE LEFT

MATCH LINE RIGHT

MATCH LINE LEFT

MATCH LINE RIGHT

1213.28
19+00
1215.0

SLOPE TO DRAIN

Const. Limits

	180	170	160	150	140	130	120	110	100	90	80	70
1220												
1215												
1210												
1205												

	70	60	50	40	30	20	10	℄	10	20	30	40	50	60
1220														
1215														
1210														
1205														

	70	80	90	100	110	120	130	140	150	160	170	180	190	200
1220														
1215														
1210														
1205														

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
			3400	176
			1125	0

SEEDING	
END WIDTH	SQ. YDS.

CALC BY	DATE	CHKD BY	DATE
KAS	4-3-97	EA	7-3-97

PREBLE COUNTY
PRE-70-2.41

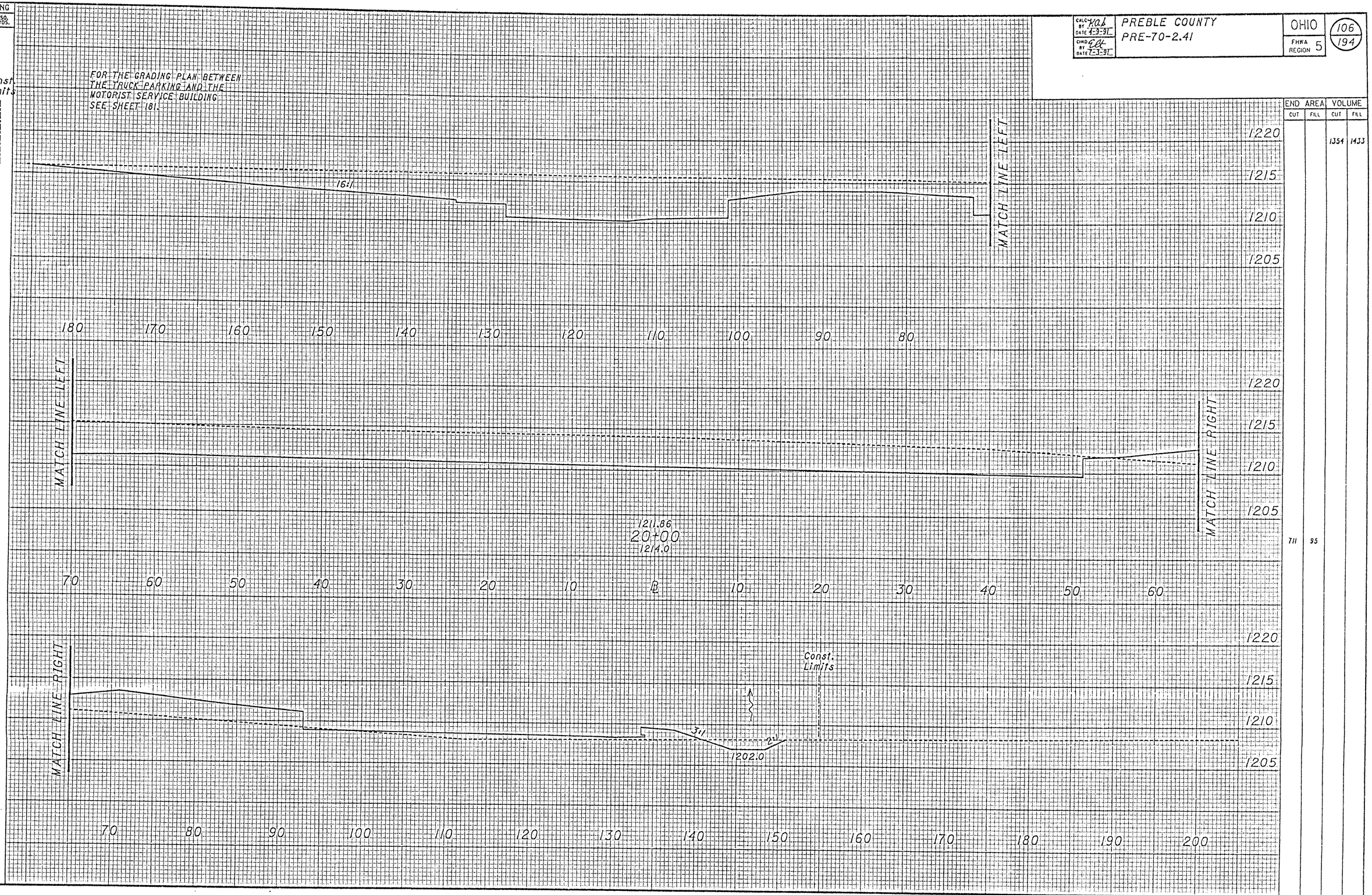
OHIO
FHWA REGION 5

106
194

Const Limits

FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORIST SERVICE BUILDING SEE SHEET 181.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1354	1433
		711	95



CROSS SECTIONS STA 20+00 LINE "C" EASTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-9-91	PREBLE COUNTY	OHIO	107
CHKD BY CAL DATE 7-3-91	PRE-70-2.41	FHWA REGION 5	194

FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORIST SERVICE BUILDING SEE SHEET 181.

Const. Limits

16:1

MATCH LINE LEFT

MATCH LINE RIGHT

1210.36
21+00
1207.0

3:1

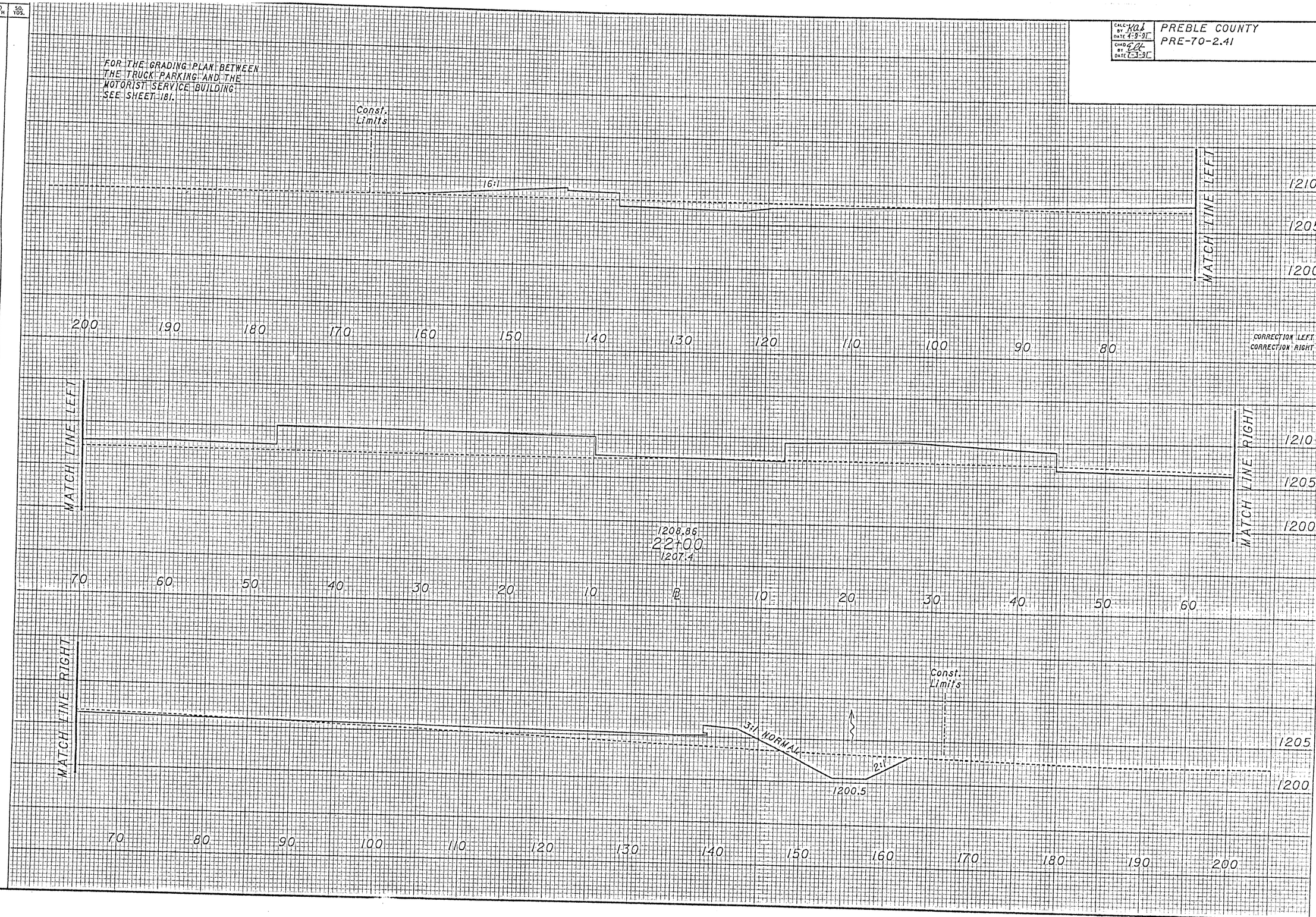
1201.0

Const. Limits

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
			98	1748
CORRECTION LEFT			-9	-155
CORRECTION RIGHT			1	64
			20	679

CROSS SECTIONS STA 21+00 LINE "C" EASTBOUND

CALC. BY Kas DATE 4-9-91	PREBLE COUNTY PRE-70-2.41	OHIO	108 / 194
CHKD BY Elt DATE 7-3-91		FHWA REGION 5	



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		74	2359
		-15	-568
		13	324
33	265		

CROSS SECTIONS STA 22+00 LINE "C" FACTS

SEEDING	
END WIDTH	SQ. YDS.

CALC BY	KAL	DATE	1-9-91
CHKD BY	EJL	DATE	1-9-91

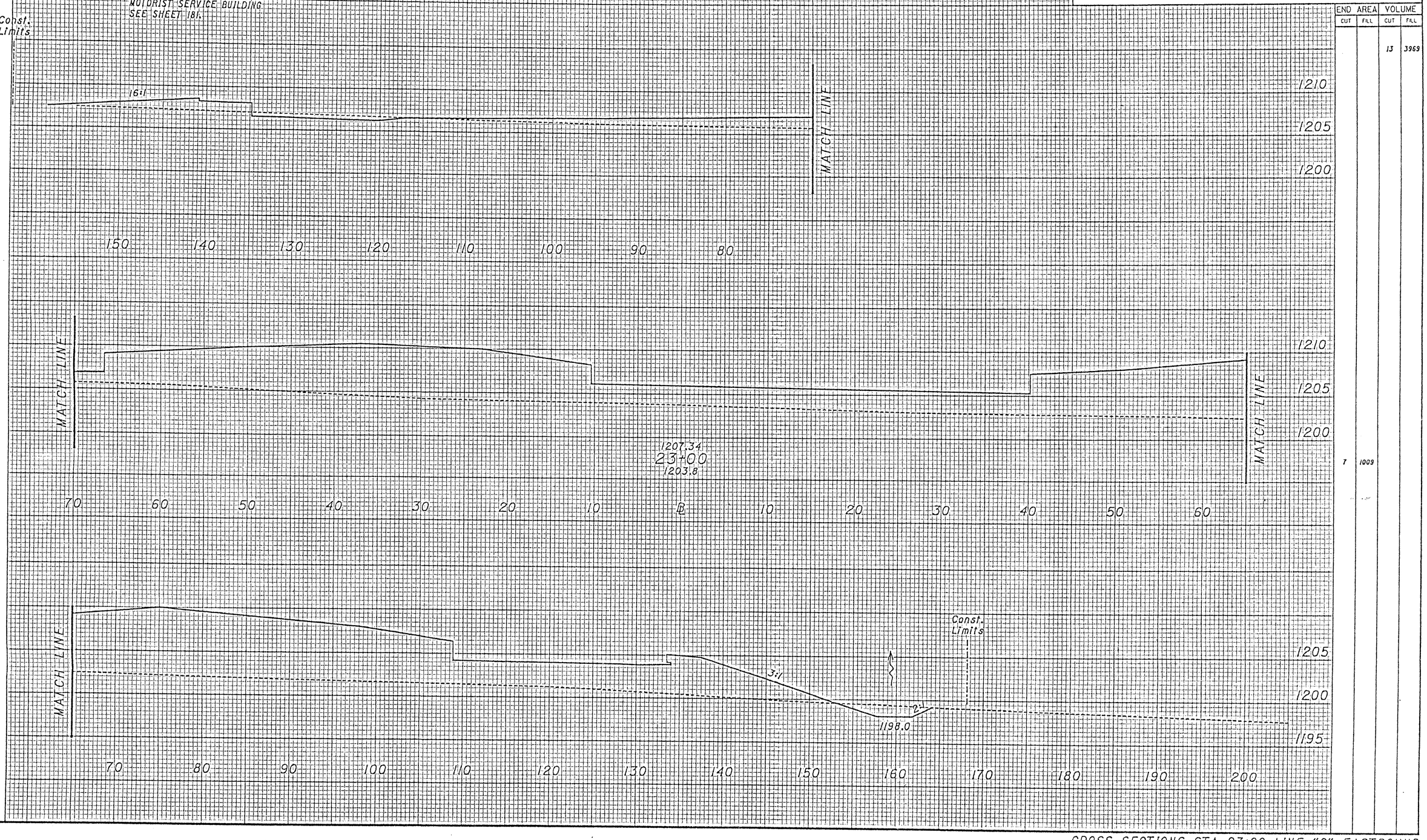
PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

109
194

FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORIST SERVICE BUILDING SEE SHEET 181.

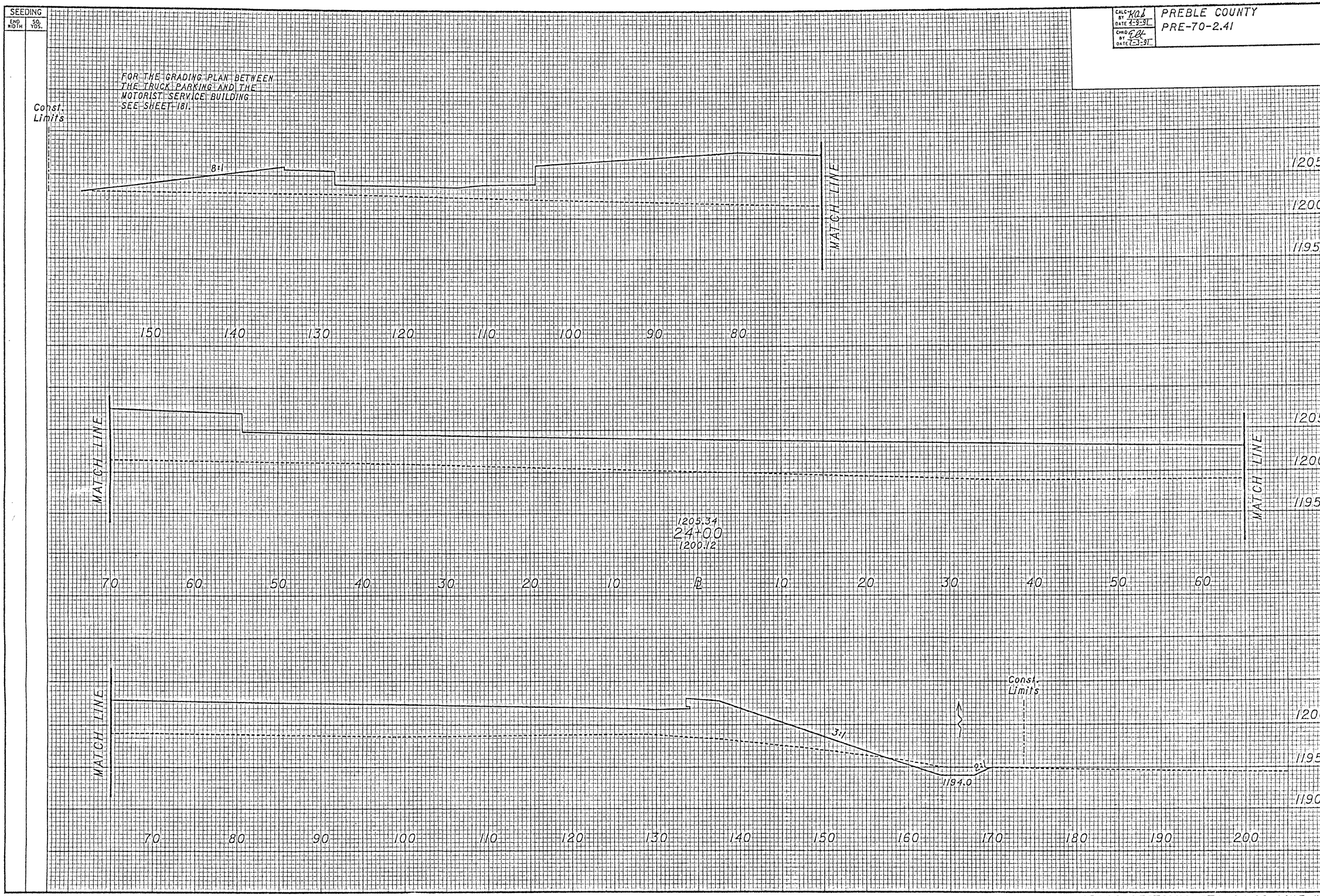
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		13	3969
		7	1009



CROSS SECTIONS STA 23+00 LINE "C" EASTBOUND

CALC BY KAS DATE 1-9-97	PREBLE COUNTY PRE-70-2.41	OHIO	110 / 194
CHKD BY Elt DATE 7-3-97		FHWA REGION 5	

SEEDING	
END WIDTH	SQ. YDS.



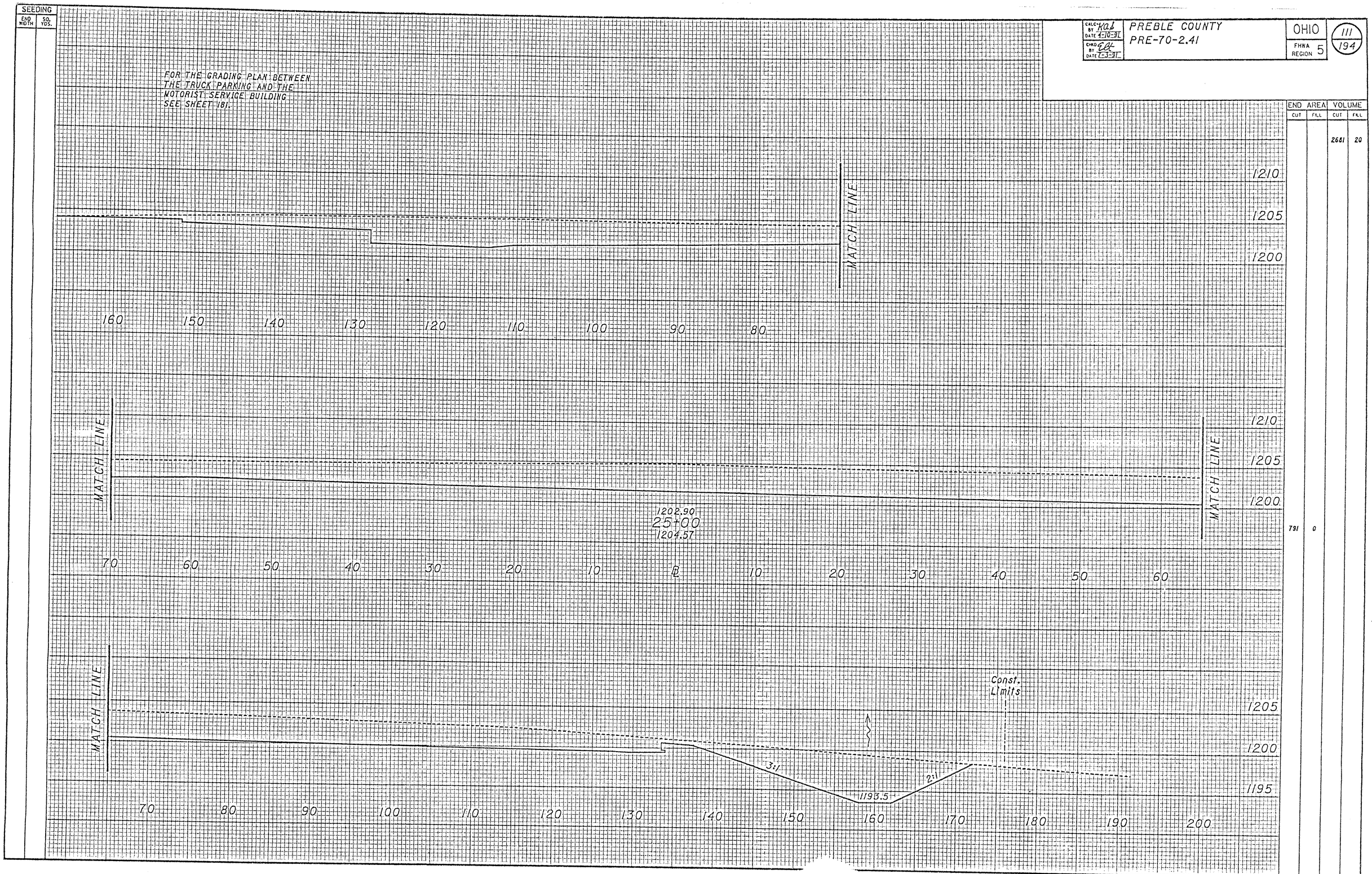
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1465	2100
0	1134		

CROSS SECTIONS STA 24+00 LINE "C" EASTBOUND

CALC BY Kad DATE 4-10-91	PREBLE COUNTY	OHIO	111
CHKD BY EAL DATE 4-3-91	PRE-70-2.41	FHWA REGION 5	194

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				2681	20
				791	0

FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORIST SERVICE BUILDING SEE SHEET 181.



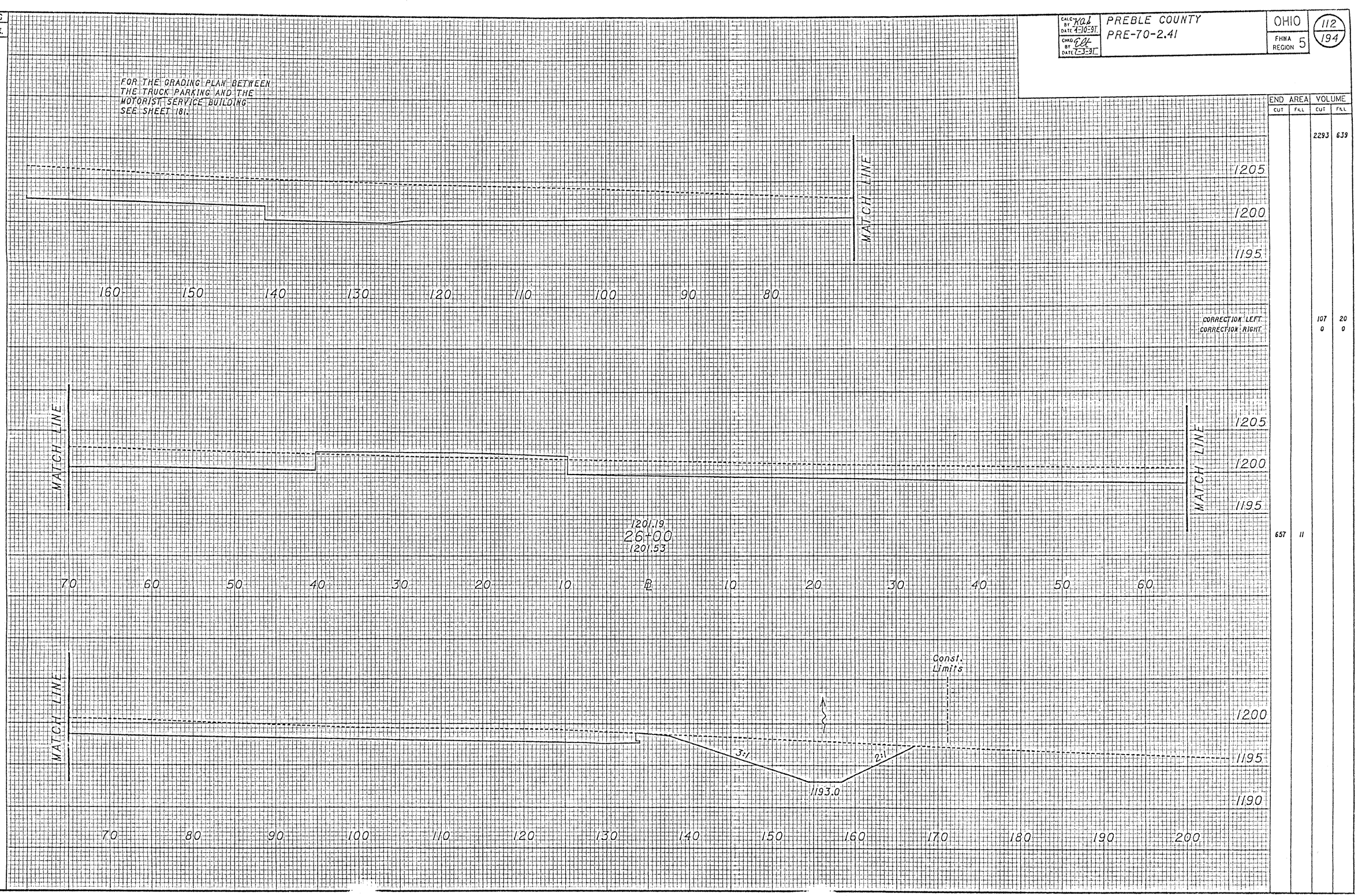
CROSS SECTIONS STA 25+00 LINE "C" EASTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC. BY Kas DATE 4-10-91
CHKD. BY Elt DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			2293	639
CORRECTION LEFT			107	20
CORRECTION RIGHT			0	0
	657	11		

CROSS SECTIONS STA 26+00 LINE "C" EASTBOUND

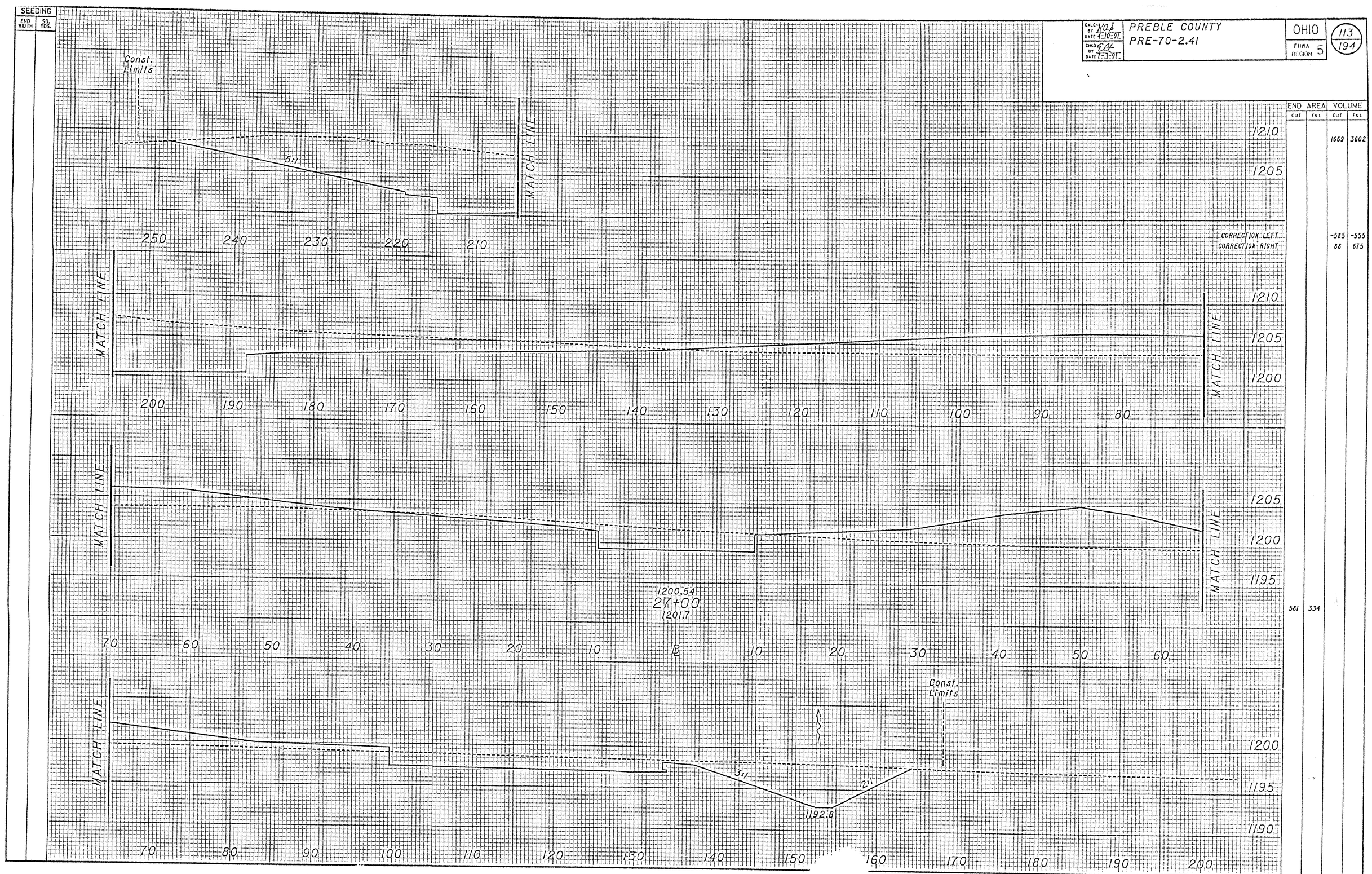
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-10-91
CHKD BY EAK DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

113
194

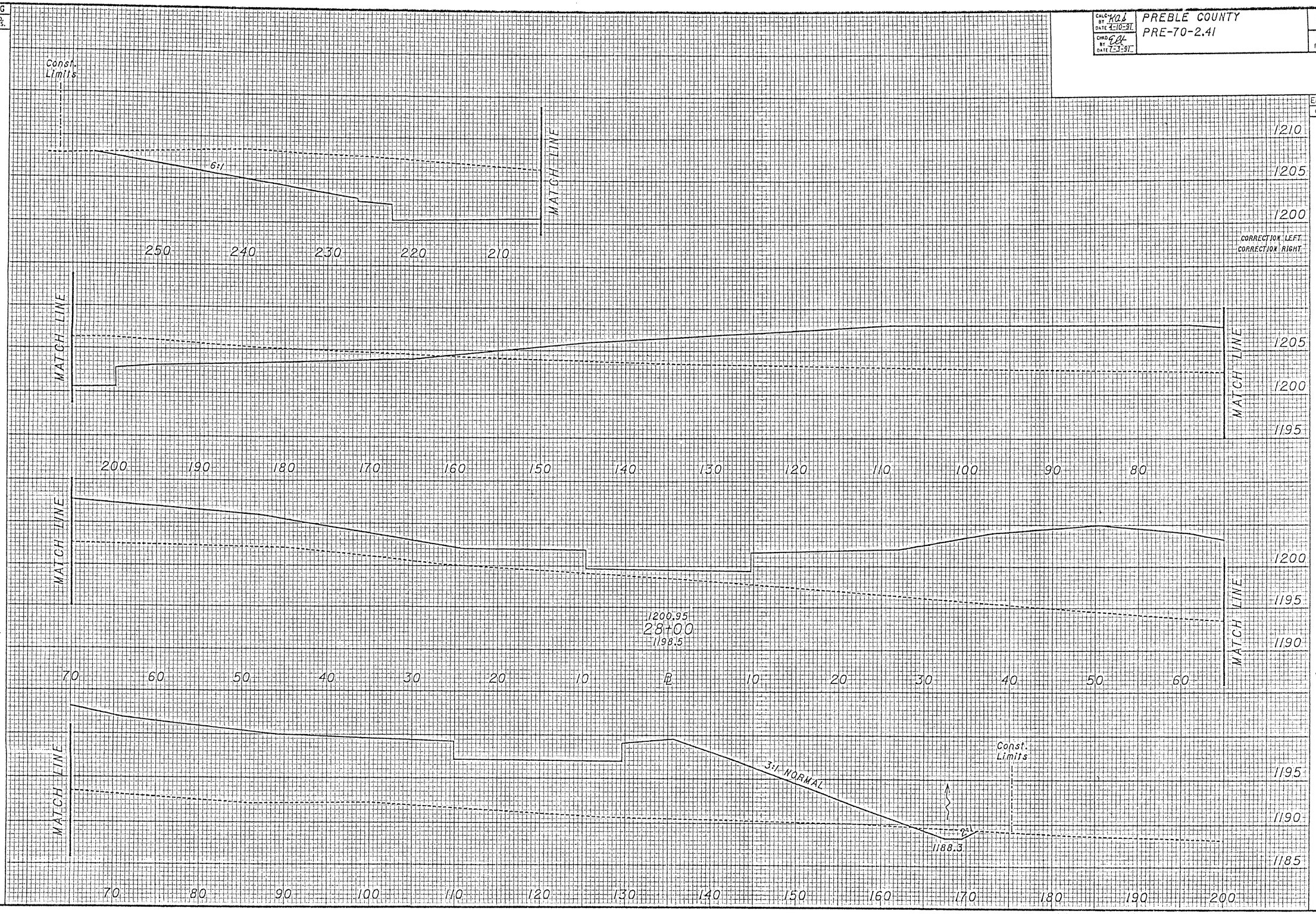


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1669	3602
CORRECTION LEFT		-585	-555
CORRECTION RIGHT		88	675
581	334		

CROSS SECTIONS STA 27+00 LINE "C" EASTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC. BY Kab DATE 4-10-91	PREBLE COUNTY PRE-70-2.41	OHIO	114 / 194
CHKD BY Elt DATE 7-3-91		FHWA REGION 5	



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			1089	4878
CORRECTION LEFT			-505	-916
CORRECTION RIGHT			4	902
	316	1651		

CROSS SECTIONS STA 28+00 LINE "C" EASTBOUND

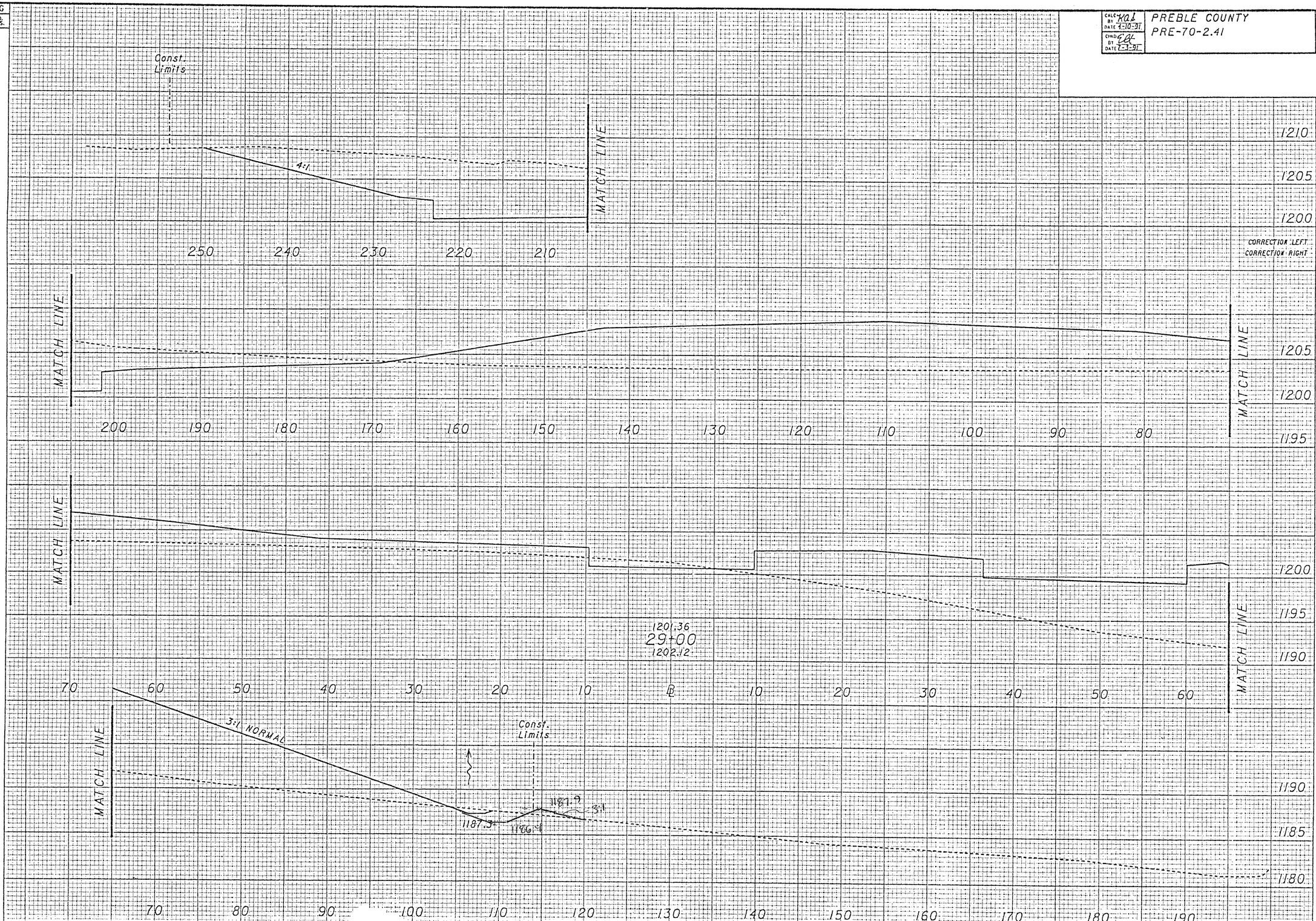
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-10-91
CHKD BY EBL DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

115
194

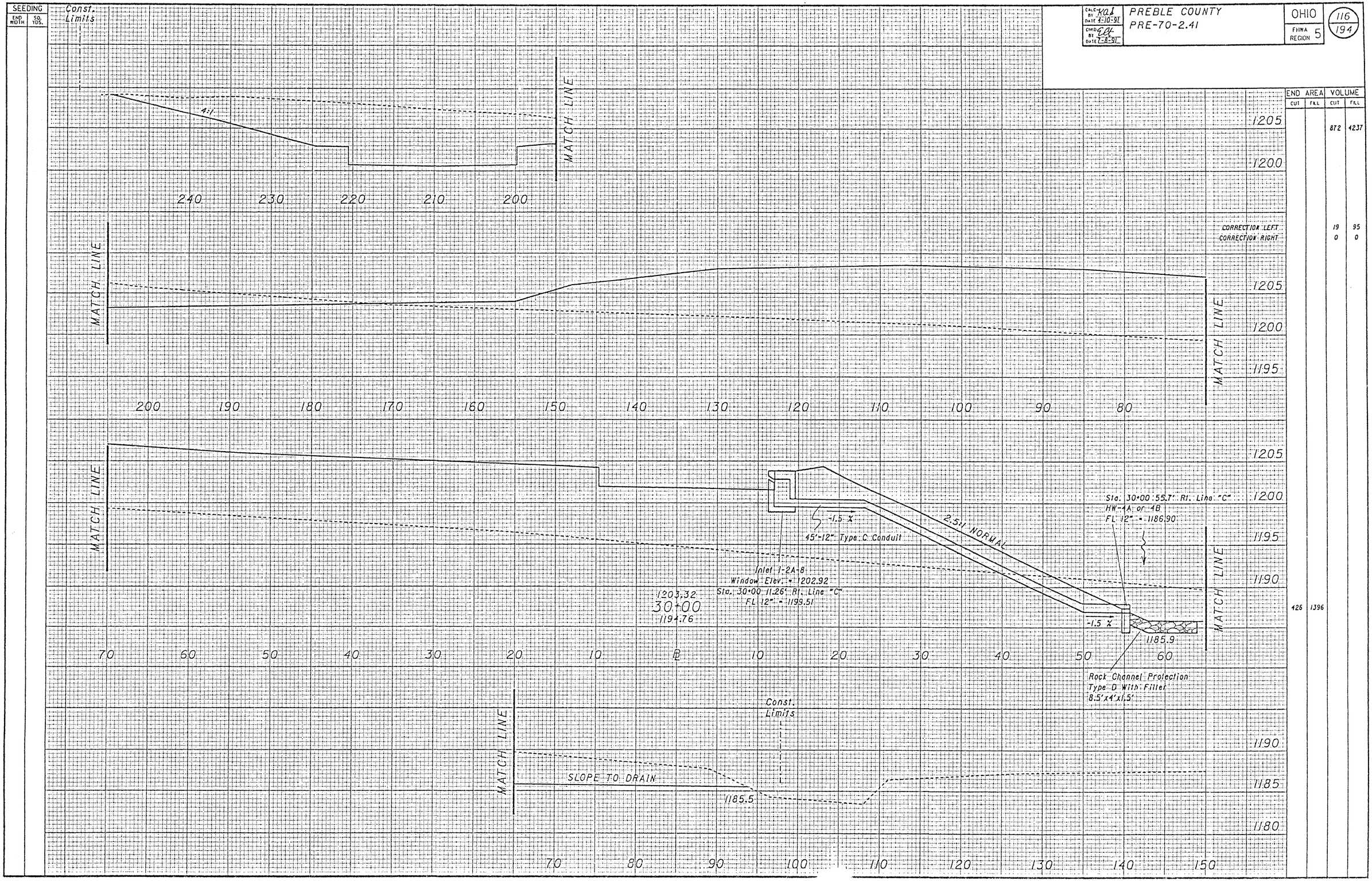


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			1293	4405
CORRECTION LEFT			-491	-1372
CORRECTION RIGHT			23	144
	272	983		

SEEDING	
END WIDTH	SQ. YDS.

CALC. BY Kal DATE 4-10-91	PREBLE COUNTY	OHIO	116
CHKD BY EA DATE 4-11-91	PRE-70-2.41	FHWA REGION 5	194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		872	4237
		19	95
		0	0
		426	1396



CROSS SECTIONS STA 30+00 LINE "C" EASTBOUND

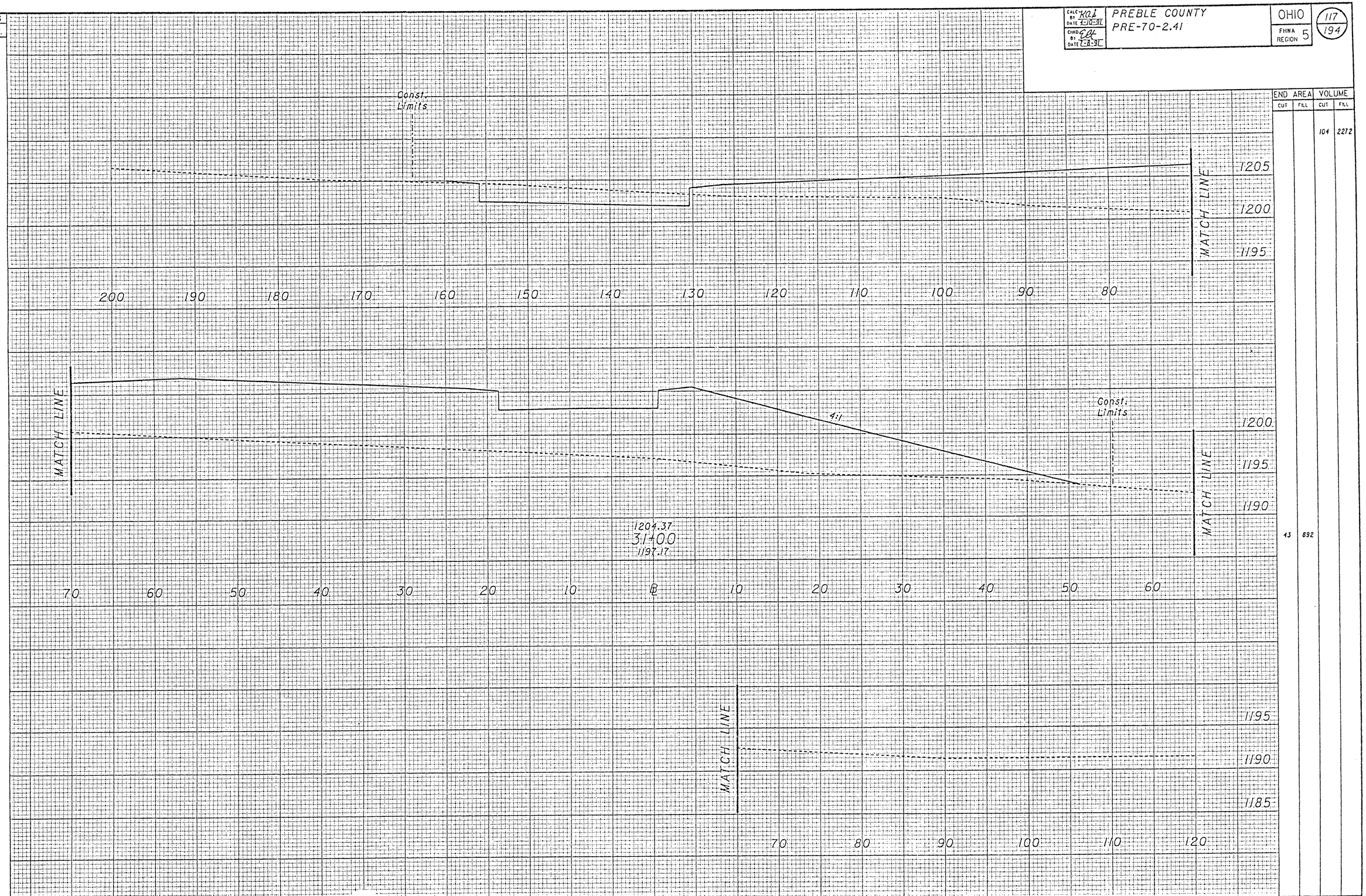
SEEDING	
END WIDTH	SQ. YDS.

CALC BY / DATE	KAJ 4-10-91
CHKD BY / DATE	CA 4-8-91

PREBLE COUNTY
PRE-70-2.41

OHIO | FHWA REGION 5 | 117 / 194

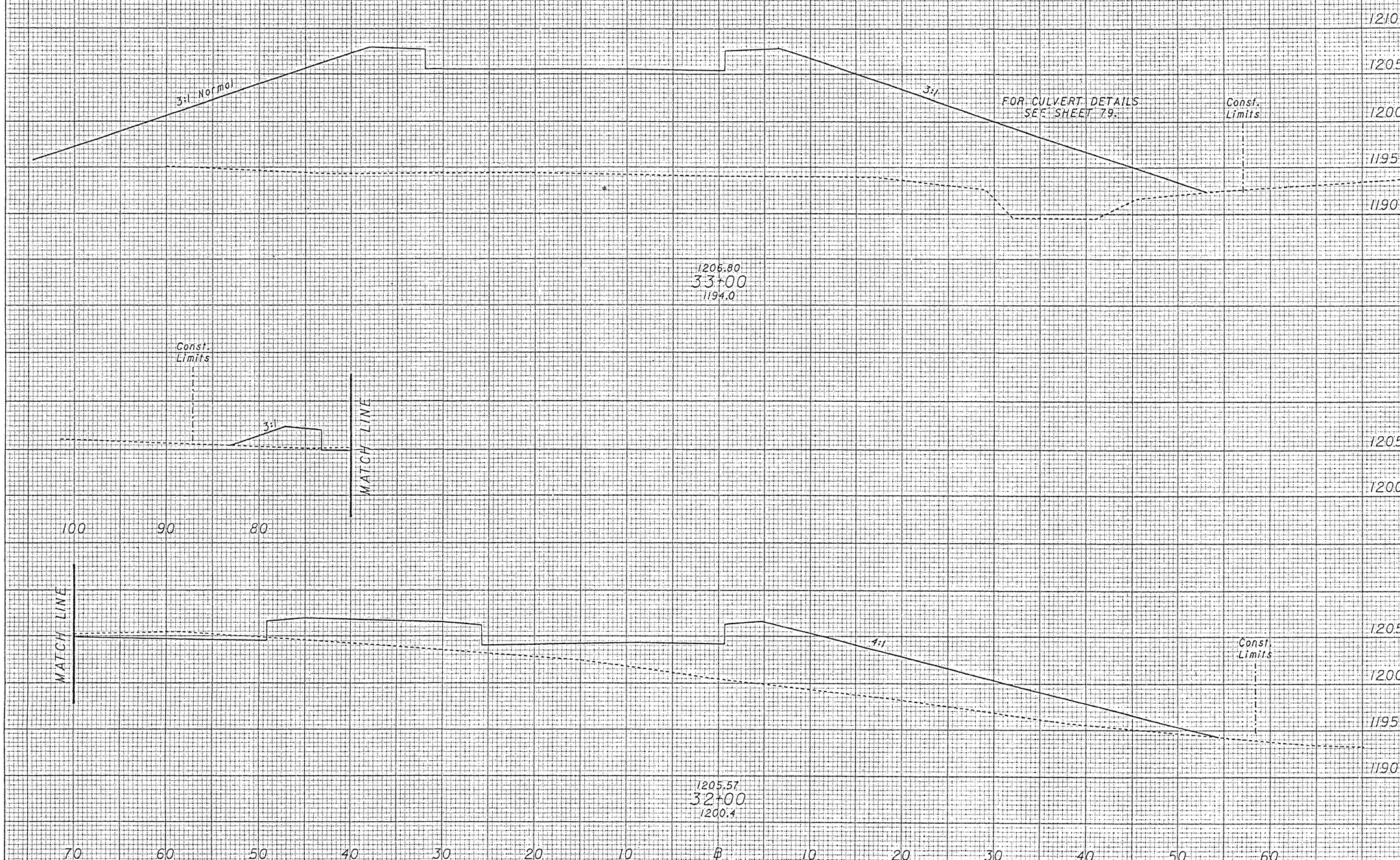
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		104	2272
		13	892



CROSS SECTIONS STA 31+00 LINE "D" EASTBOUND

SEEDING	
END MIDTH	SQ. YDS.

CALC BY KAS DATE 4-10-91	PREBLE COUNTY PRE-70-2.41	OHIO	118
CHKD BY EBL DATE 7-8-91		FHWA REGION 5	194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		0	3413
0	1154		
		24	2757
13	335		

CALC BY KAL DATE 4-10-91	PREBLE COUNTY	OHIO	119
CHKD BY CLH DATE 4-15-91	PRE-70-2.41	FHWA REGION 5	194

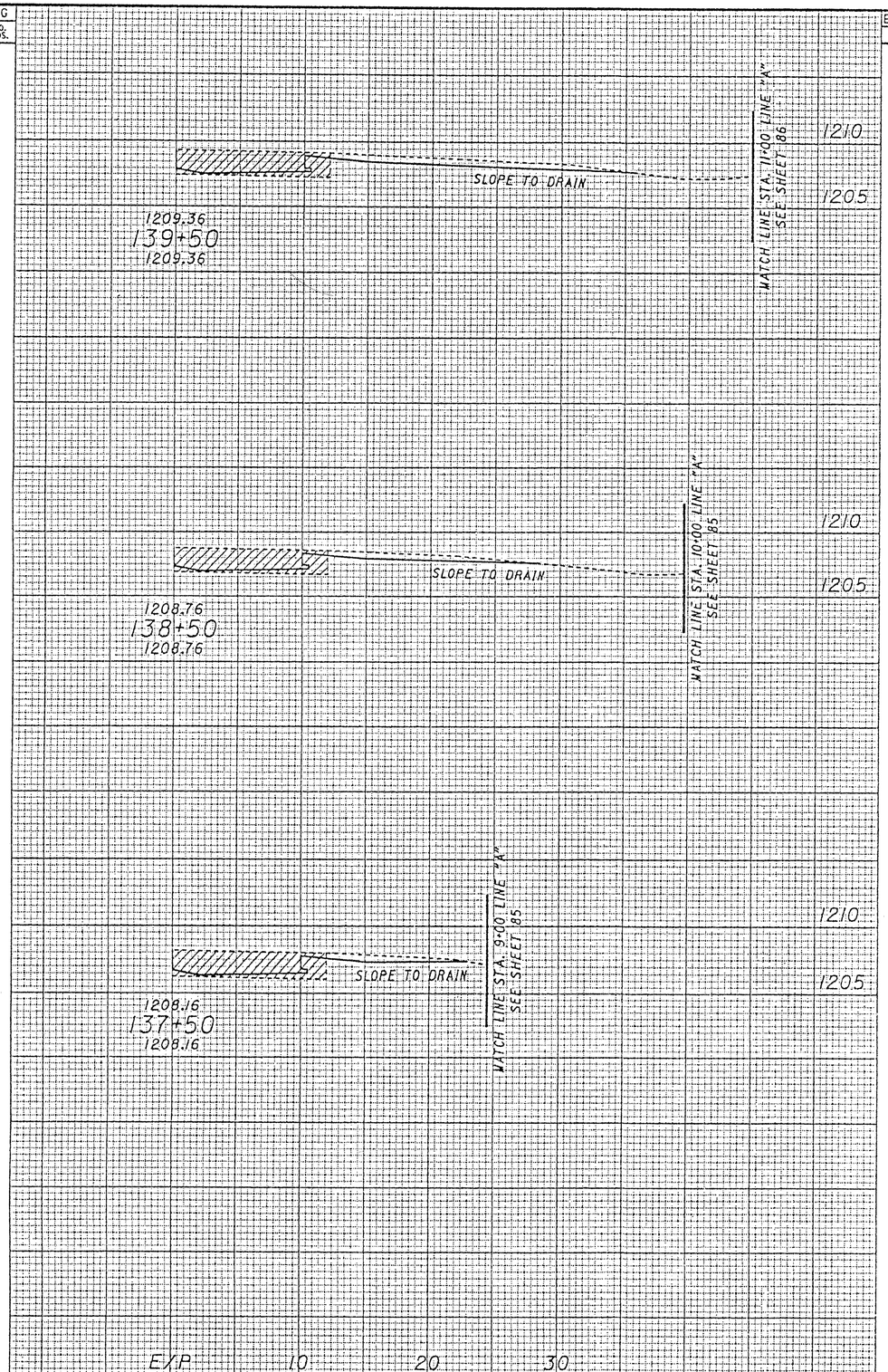
SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL

CALC BY	DATE	CHKD BY	DATE
EL	6-7-91	KAL	6-10-91

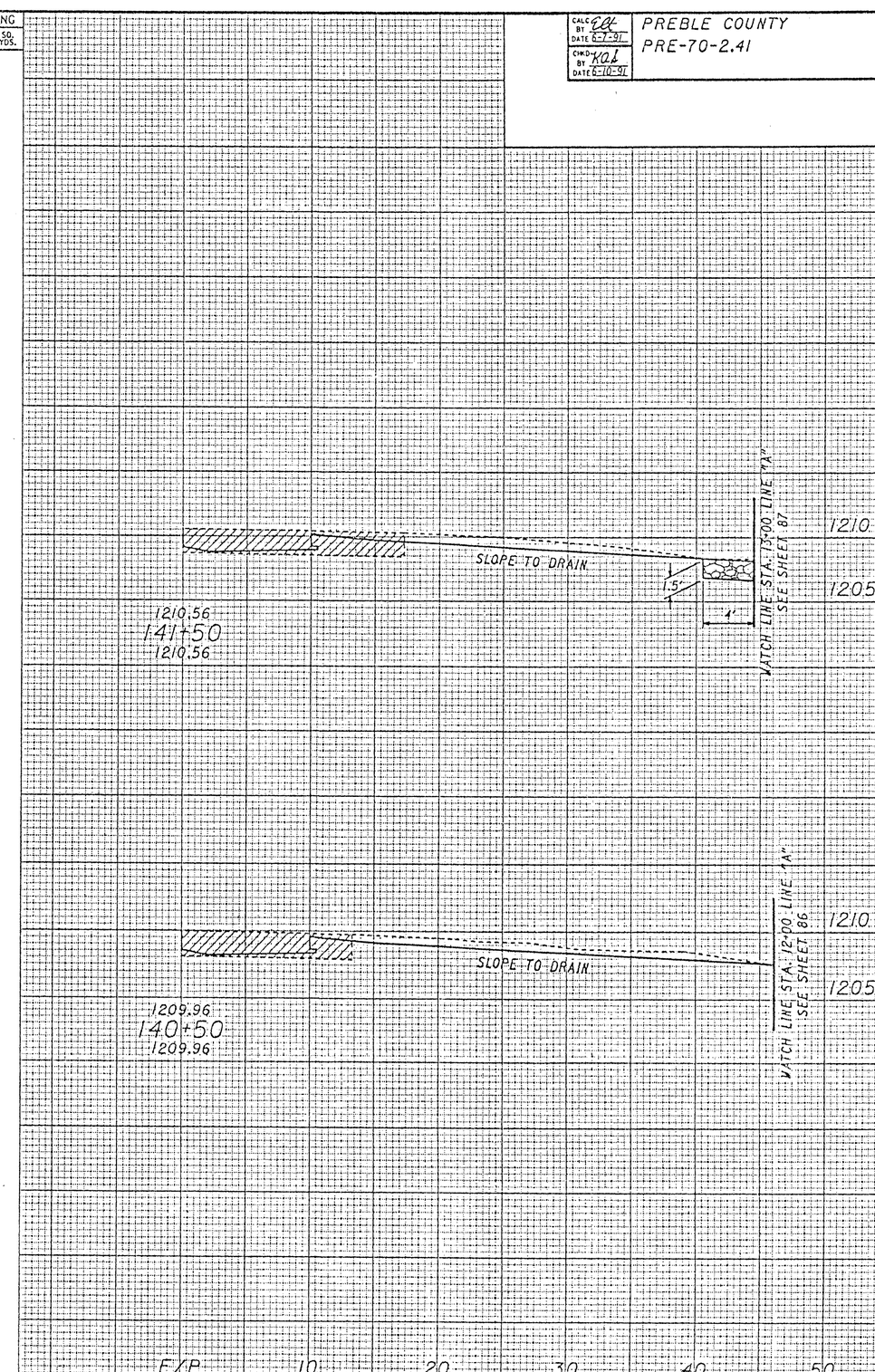
PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

120
194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		48	26
10	6		
		28	22
5	6		
		17	22
4	6		



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
15	13		
		57	39
16	8		

CROSS SECTIONS STA. 137+50 TO STA. 141+50 I-70 EASTBOUND

CALC BY GA DATE 6-7-91
CHKD BY KAJ DATE 6-10-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

121
194

SEEDING				END AREA		VOLUME	
END WIDTH	SQ. YDS.			CUT	FILL	CUT	FILL
13							
	208	1215					
		1210					
62			WATCH LINE STA. 16+00 LINE "A" SEE SHEET 88	28	8		
	331						
57						83	70
	306	1215					
		1210					
53			WATCH LINE STA. 15+00 LINE "A" SEE SHEET 88	17	30		
	272						
45						61	93
	239	1210					
		1205					
41			WATCH LINE STA. 14+00 LINE "A" SEE SHEET 87	16	20		

ITEM 202
PAVEMENT REMOVED

1212.36
144+50
1212.36

SLOPE TO DRAIN

1211.78
143+50
1211.78

SLOPE TO DRAIN

1211.17
142+50
1211.17

E/P 10 20 30 40 50 60 70 80

CROSS SECTIONS STA. 142+50 TO STA. 144+50 I-70 EASTBOUND

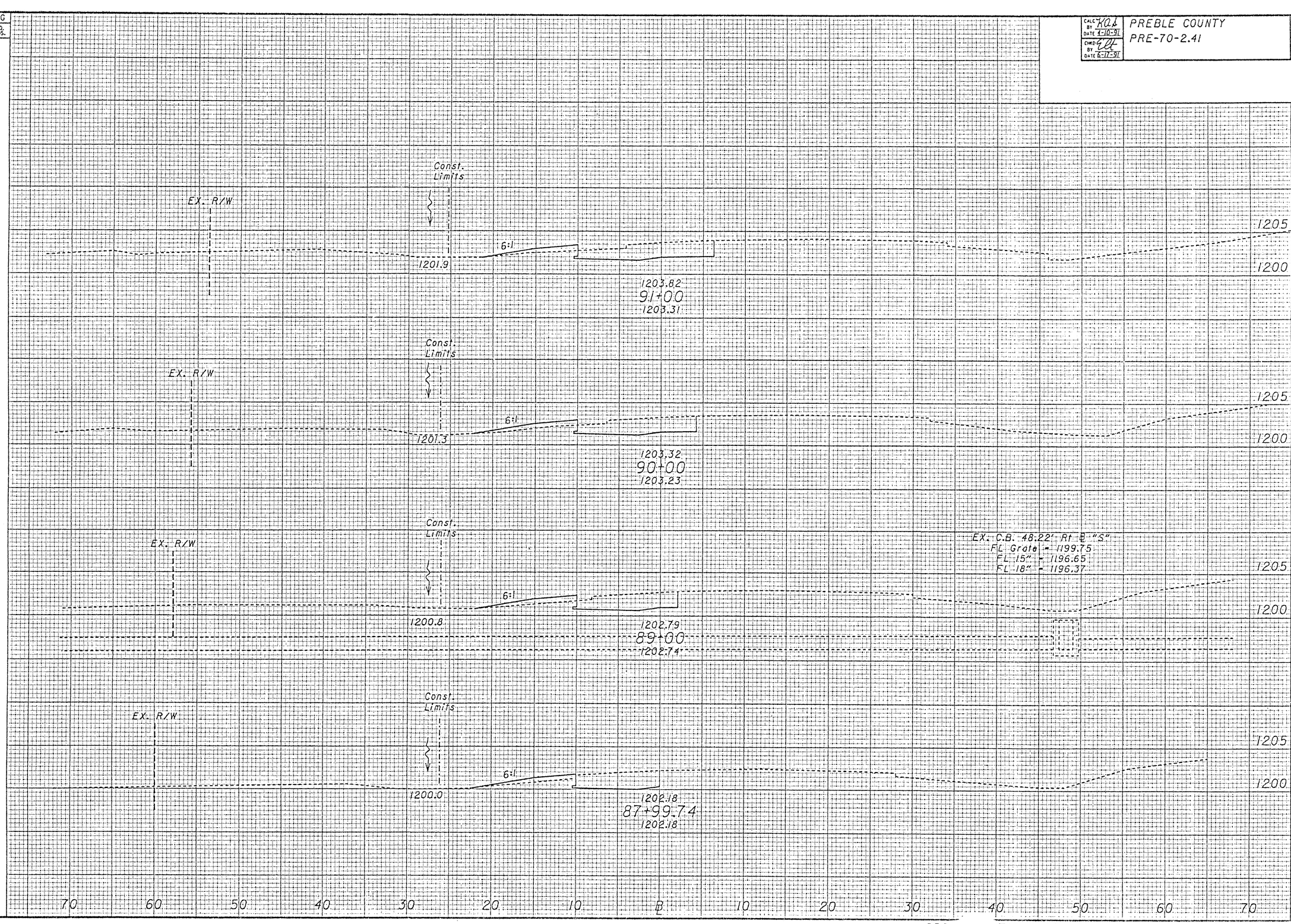
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-10-91
CHKD BY [illegible] DATE 6-17-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

122
194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		98	24
25	5		
		89	19
23	5		
		80	19
20	5		
		72	17
19	4		

TIONS STA 87+99.74 TO STA 91+00 LINE "S" WEST

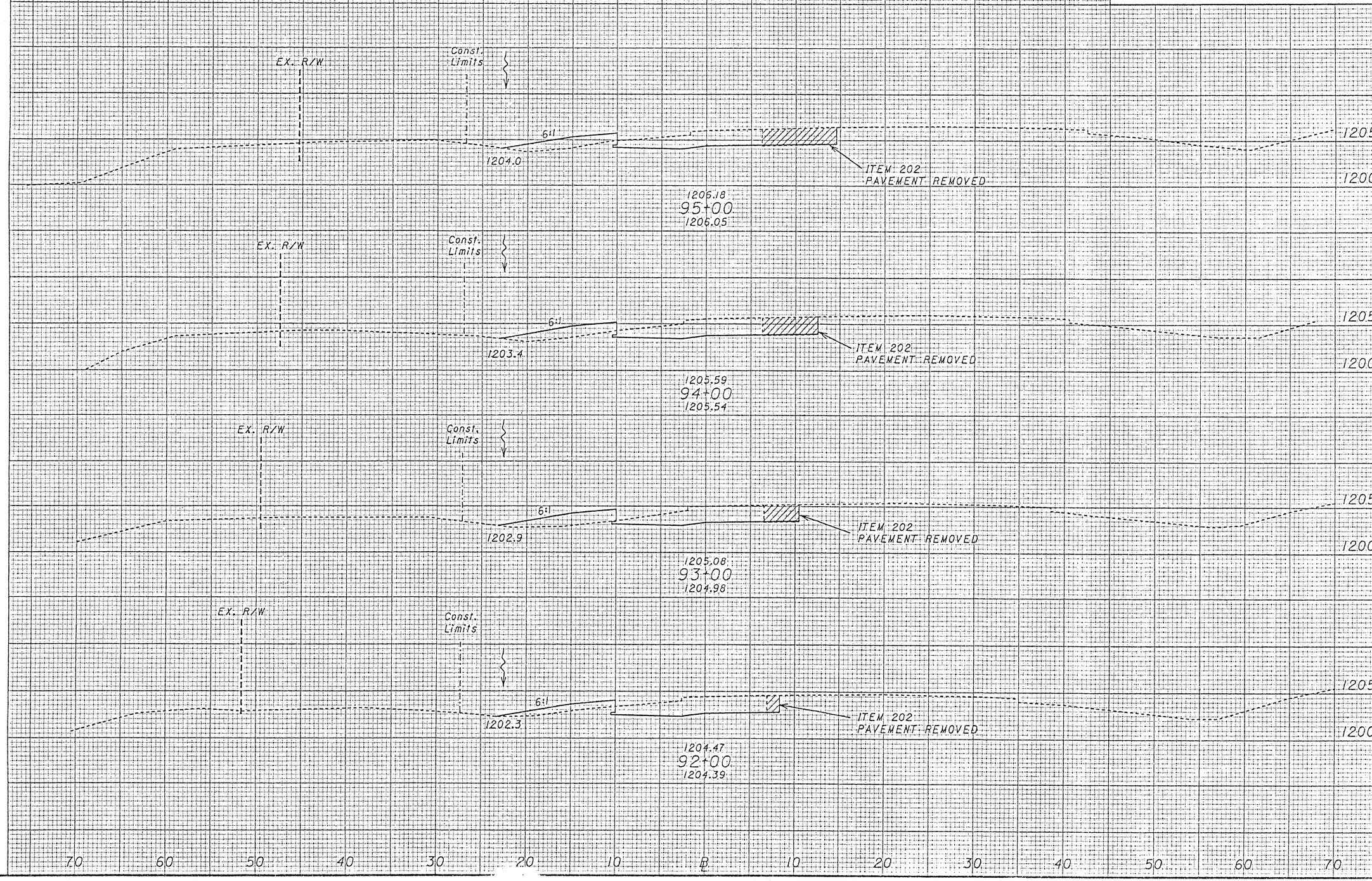
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-10-91
CHKD BY ELT DATE 6-11-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

123
194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		89	37
24	12		
		90	44
25	12		
		89	46
23	13		
		94	39
28	8		

GS SECTIONS STA 92+00 TO STA 95+00 LINE "S" WESTBOUND

CALC BY KAS DATE 4-10-91	PREBLE COUNTY	OHIO	124
CHKD BY DLH DATE 6-12-91	PRE-70-2.41	FHWA REGION 5	194

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				183	63
		40	14		
				117	41
		23	8		
				76	28
		18	7		
				78	28
		24	8		

Const. Limits
EX. R/W
4:1
6:1
1205.1
ITEM 202 PAVEMENT REMOVED
1208.37
99+00
1208.30
1210
1205
1200

Const. Limits
EX. R/W
6:1
1205.0
ITEM 202 PAVEMENT REMOVED
1207.90
98+00
1207.68
1210
1205
1200

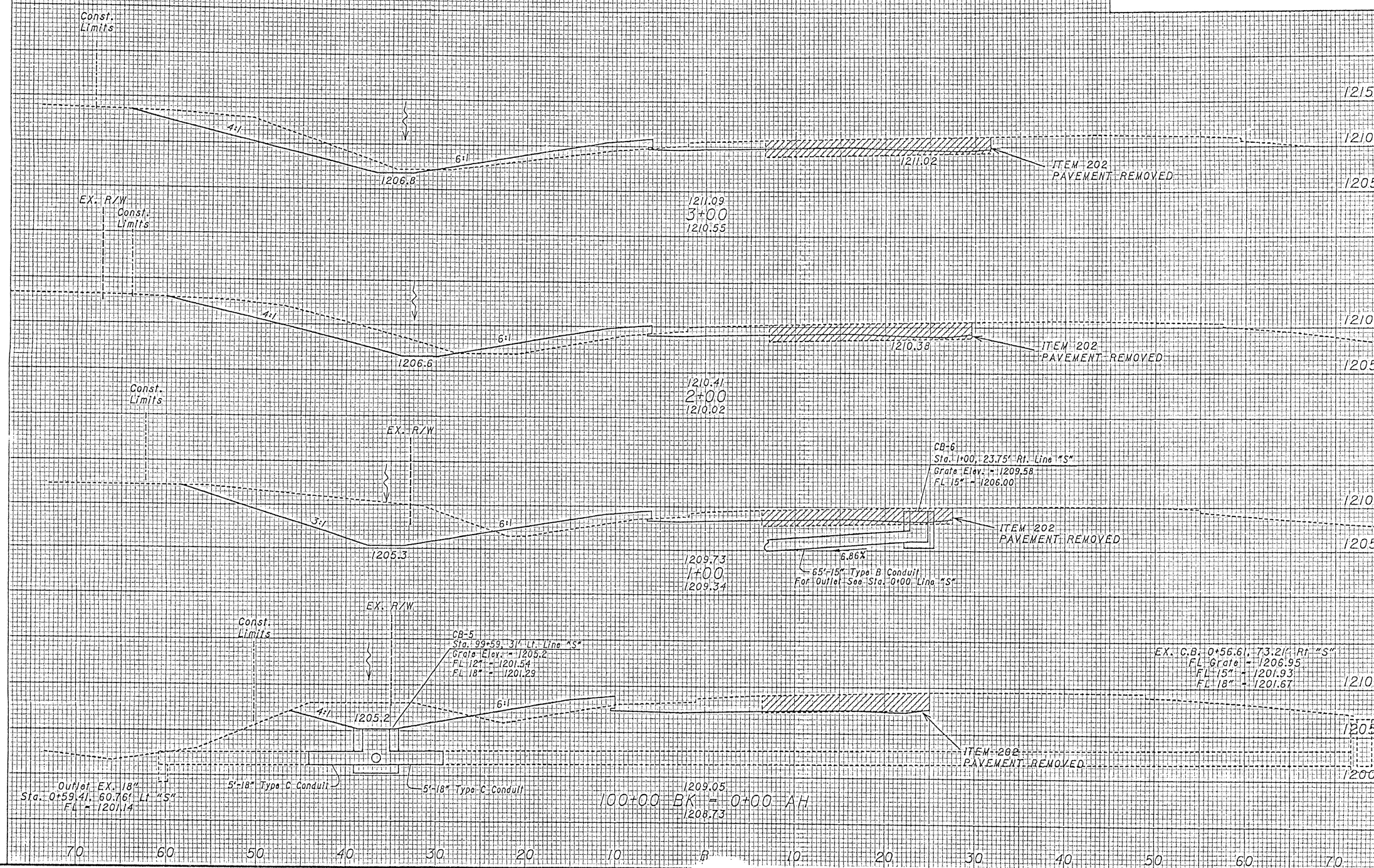
Const. Limits
EX. R/W
6:1
1204.6
ITEM 202 PAVEMENT REMOVED
1207.29
97+00
1207.08
1210
1205
1200

Const. Limits
EX. R/W
2:1
6:1
1204.1
ITEM 202 PAVEMENT REMOVED
1206.68
96+00
1206.51
1210
1205
1200

70 60 50 40 30 10 0 10 20 30 40 50 60 70

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-10-91	PREBLE COUNTY PRE-70-2.41	OHIO	125/194
CHKD BY ELL DATE 6-17-91		FHWA REGION 5	



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		326	98
57	34		
		222	124
63	33		
		289	126
93	35		
		281	102
59	20		

CROSS SECTIONS STA 100+00 TO STA 3+00 LINE "S" WESTBOUND

CALC BY KAS DATE 4-10-91	PREBLE COUNTY PRE-70-2.41	OHIO	126
CHKD BY DATE 6-17-91		FHWA REGION 5	194

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				1372	78
		262	21	761	69
		149	16	496	65
		119	19		

Const. Limits

3:1

4:1 Normal

1207.1

1213.13
6+00
1211.85

1212.93

ITEM 202
PAVEMENT REMOVED

1215

1210

1205

Const. Limits

4:1

4:1

1207.0

1212.45
5+00
1211.21

1212.29

ITEM 202
PAVEMENT REMOVED

1215

1210

1205

Const. Limits

4:1

5:1

1206.9

1211.77
4+00
1210.76

1211.66

ITEM 202
PAVEMENT REMOVED

1215

1210

1205

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

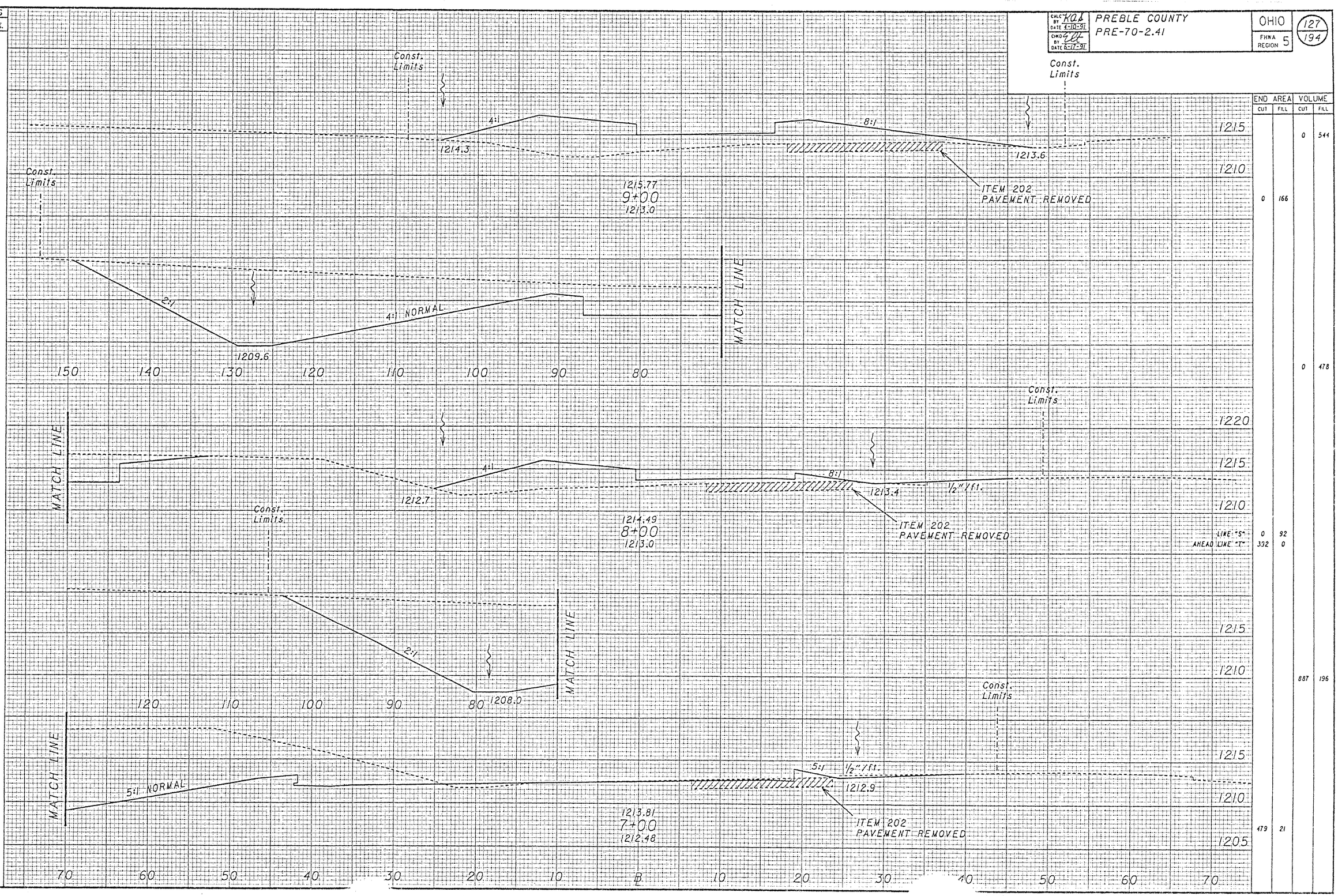
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-10-91
CHKD BY ELT DATE 6-17-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

127
194



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			0	544
	0	166		
			0	478
LINE "S"	0	92		
AHEAD LINE "T"	392	0		
			887	196
	479	21		

...CTIONS STA 7+00 TO STA 9+00 LINE "S" WESTBOUND

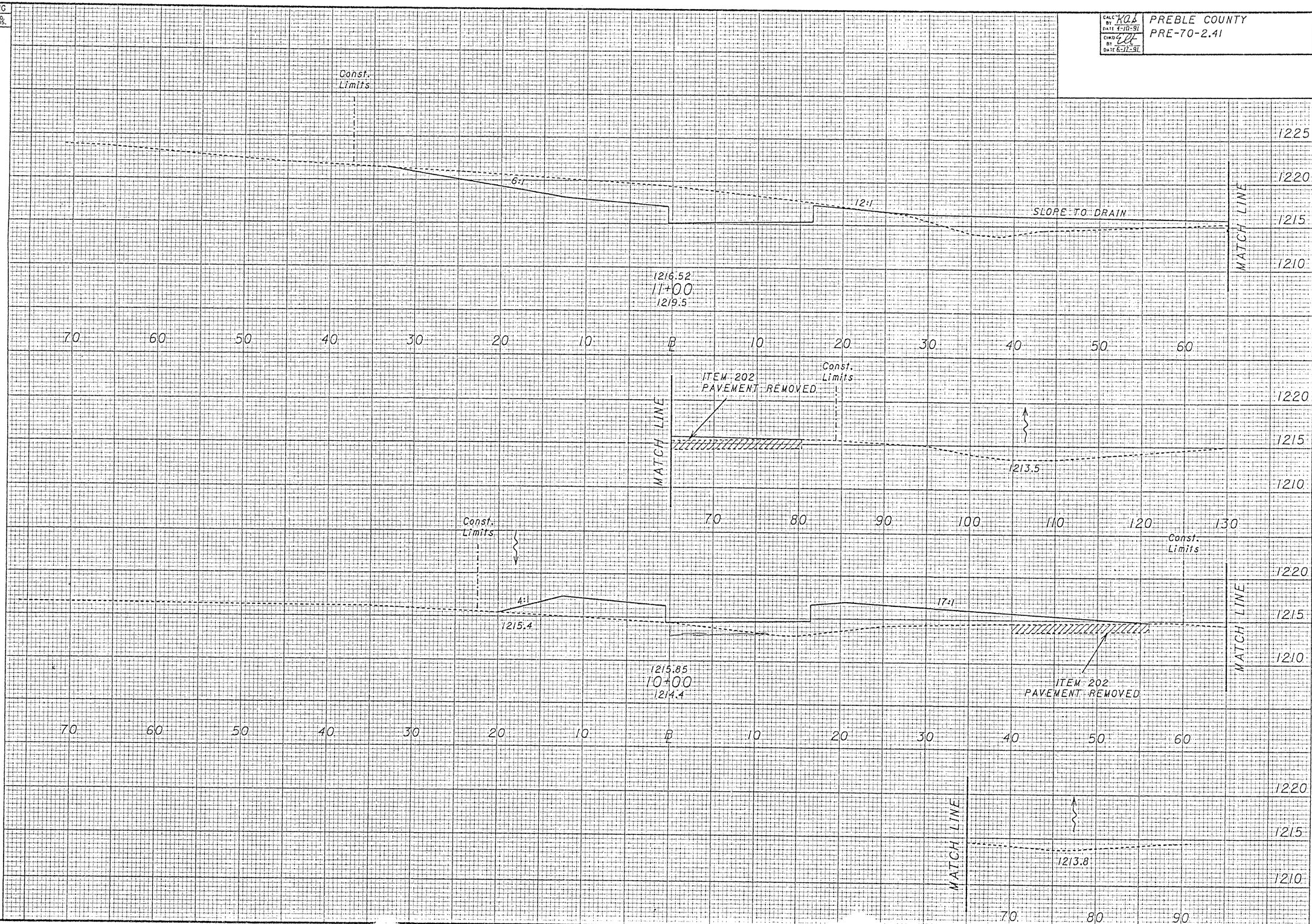
SEEDING	
END WIDTH	SQ. YDS.

CALC BY	DATE	CHKD BY	DATE
KAL	4-10-91	[illegible]	6-12-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

128
194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		990	259
108	67		
		200	361
0	128		

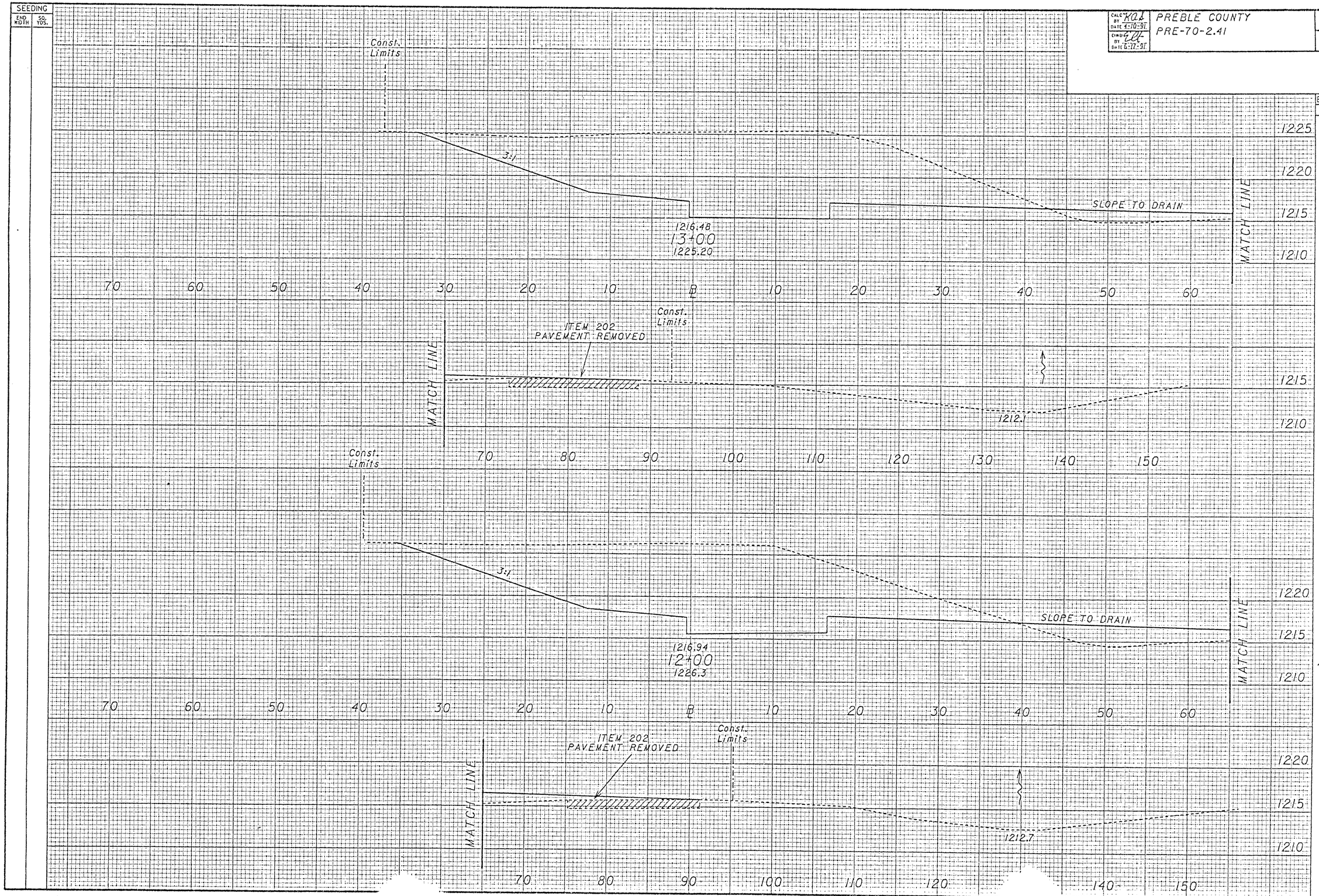
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-10-97
CHKD BY ELT DATE 6-17-97

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

129
194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		846	191
456	20		
		1635	172
427	73		

CROSS SECTIONS STA 12+00 TO STA 13+00 LINE "S" WEST

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 5-10-91	PREBLE COUNTY PRE-70-2.41	OHIO	130
CHKD BY GH DATE 6-21-91		FHWA REGION 5	194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		111	202
34	56		
		65	230
1	68		

1215
1210
1214.73
15+00
1214.73
ITEM 202
PAVEMENT REMOVED
MATCH LINE
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60
Const. Limits
MATCH LINE
ITEM 202
PAVEMENT REMOVED
1209.6
1215
1210
70 80 90 100 110 120 130 140 150 160 170
1220
1215
1210
SLOPE TO DRAIN
1215.70
14+07.95
1215.70
ITEM 202
PAVEMENT REMOVED
MATCH LINE
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60
Const. Limits
ITEM 202
PAVEMENT REMOVED
MATCH LINE
1220
1215
1211.2
1210
70 80 90 100 110 120 130 140 150 160 170

CROSS SECTIONS STA 14+07.58 TO STA 15+00 LINE "S" WESTBOUND

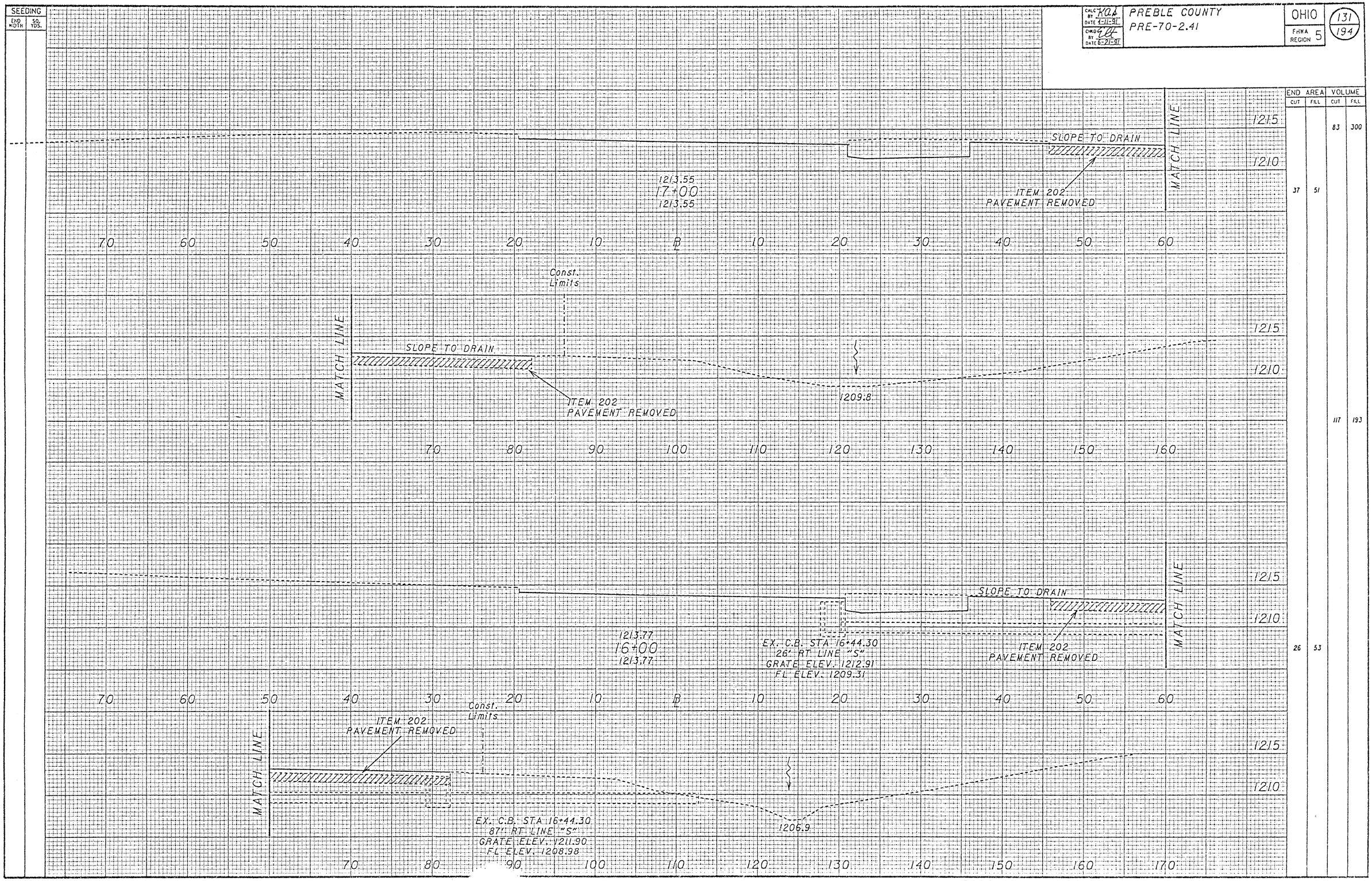
CALC BY KAS DATE 4-11-91
CHKD BY [illegible] DATE 6-27-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

131
194

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				83	300
		37	51		
				117	193
		26	53		



CROSS SECTIONS STA 16+00 TO STA 17+00 LINE "S" WESTBOUND

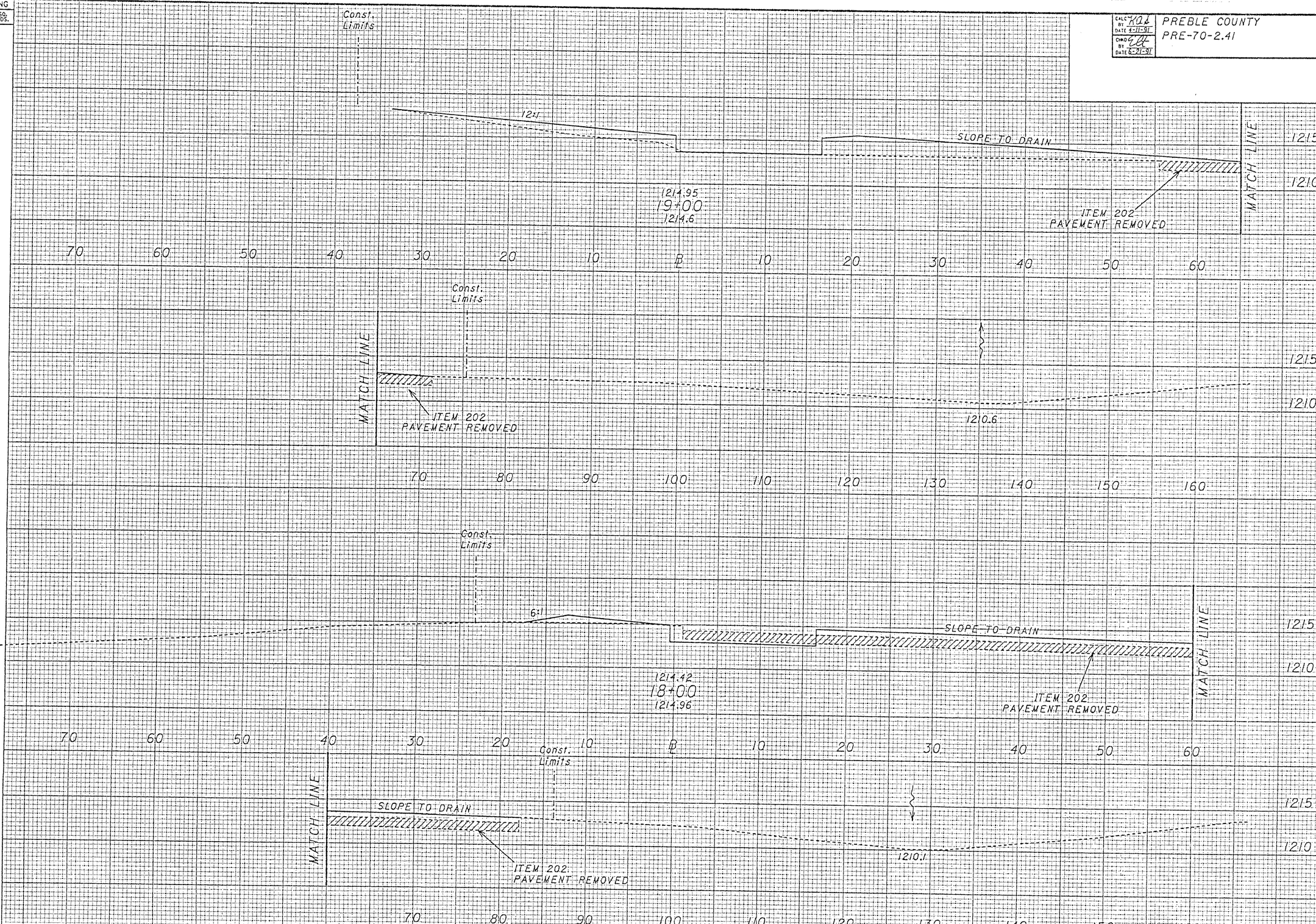
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-11-91
CHKD BY ELL DATE 6-21-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

132
194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		402	380
0	101		
		15	393
8	111		

CROS[illegible]ONS STA 18+00 TO STA 19+00 LINE "S" WESTBOUND

SEEDING	
END WIDTH	SQ. YDS.

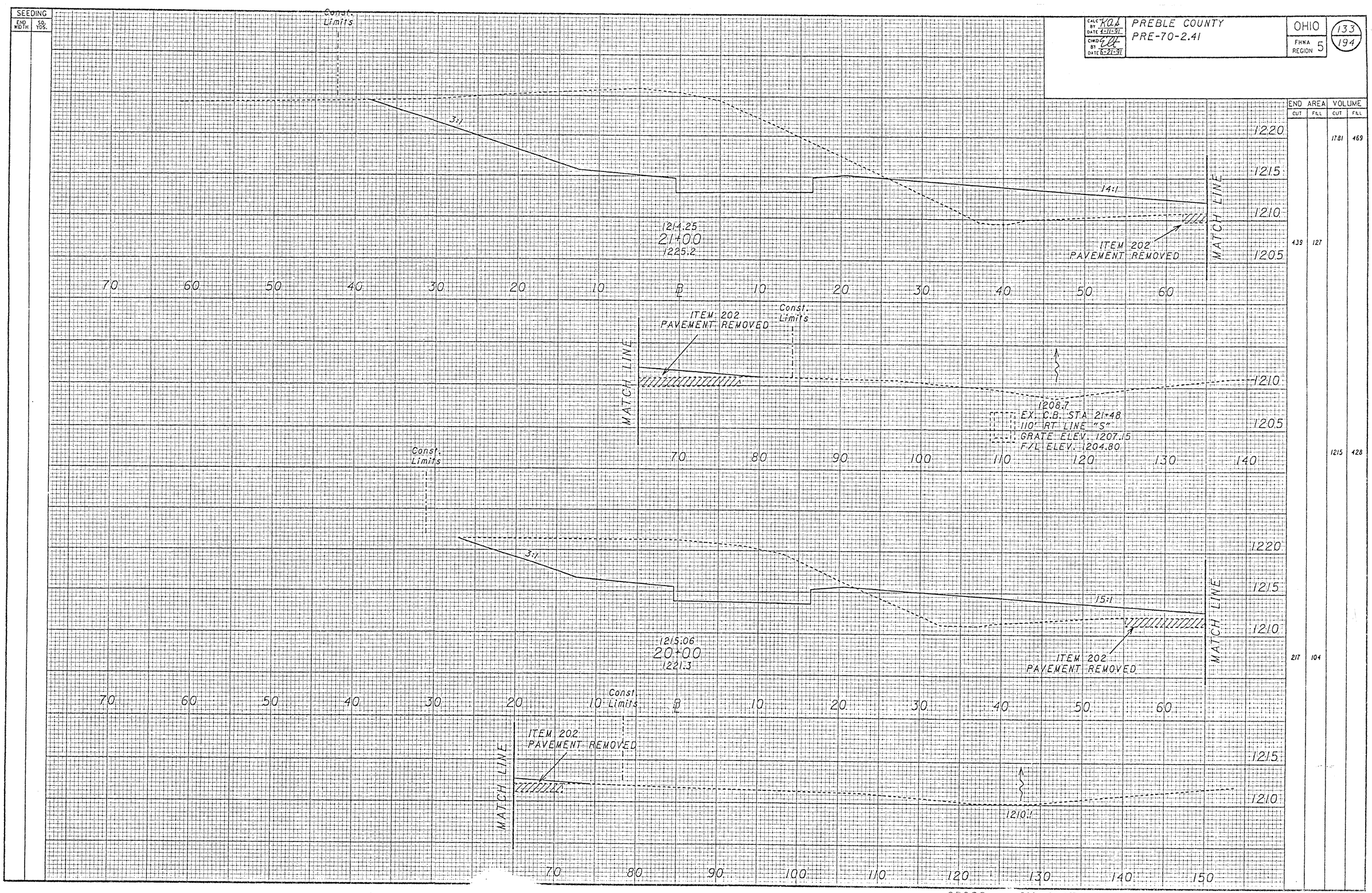
CALC BY KAS DATE 4-11-91
CHKD BY [illegible] DATE 6-21-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

133
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1781	469
439	127		
		1215	428
217	104		



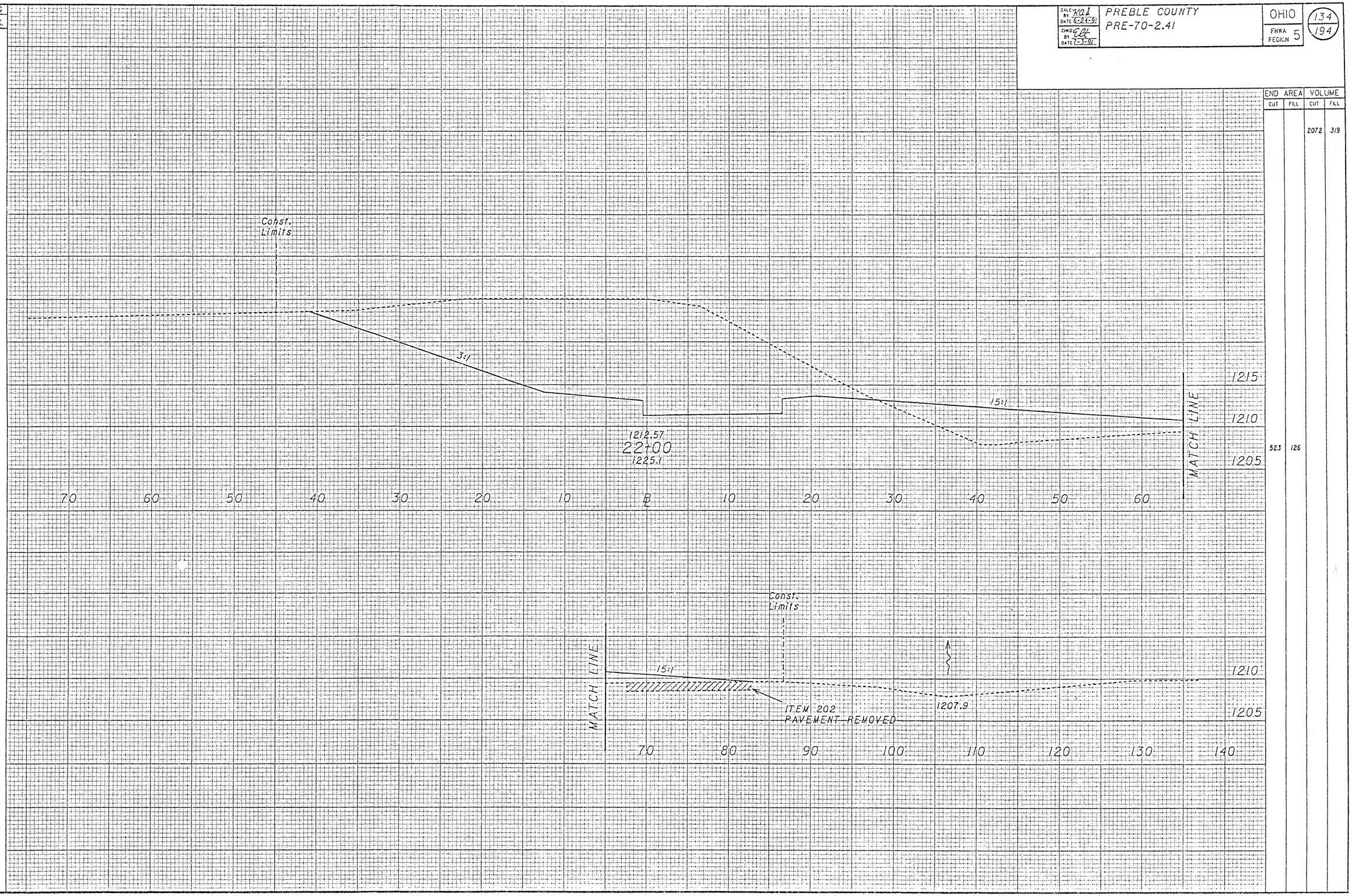
CROSS [illegible] TIONS STA 20+00 TO STA 21+00 LINE "S" WESTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAI DATE 6-24-91	PREBLE COUNTY
CHKD BY CAL DATE 7-1-91	PRE-70-2.41

OHIO | FHWA REGION 5 | 134 / 194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2072	319
523	126		



CROSS SECTIONS STA 22+00 LINE "S" WESTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY XAL DATE 6-24-91	PREBLE COUNTY
CHKD BY CLK DATE 7-3-91	PRE-70-2.41

OHIO | FHWA REGION 5 | 135 / 194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		7057	85

EX. R/W

Const. Limits

MATCH LINE

2:1

6:1

1209.0

13:1

MATCH LINE

1210.01
23+00
1223.6

ITEM 202
PAVEMENT REMOVED

MATCH LINE

10:1

1206.2

1225
1220
1215
1210
1205

170 160 150 140 130 120 110 100 90 80 70

70 60 50 40 30 20 10 B 10 20 30 40 50 60

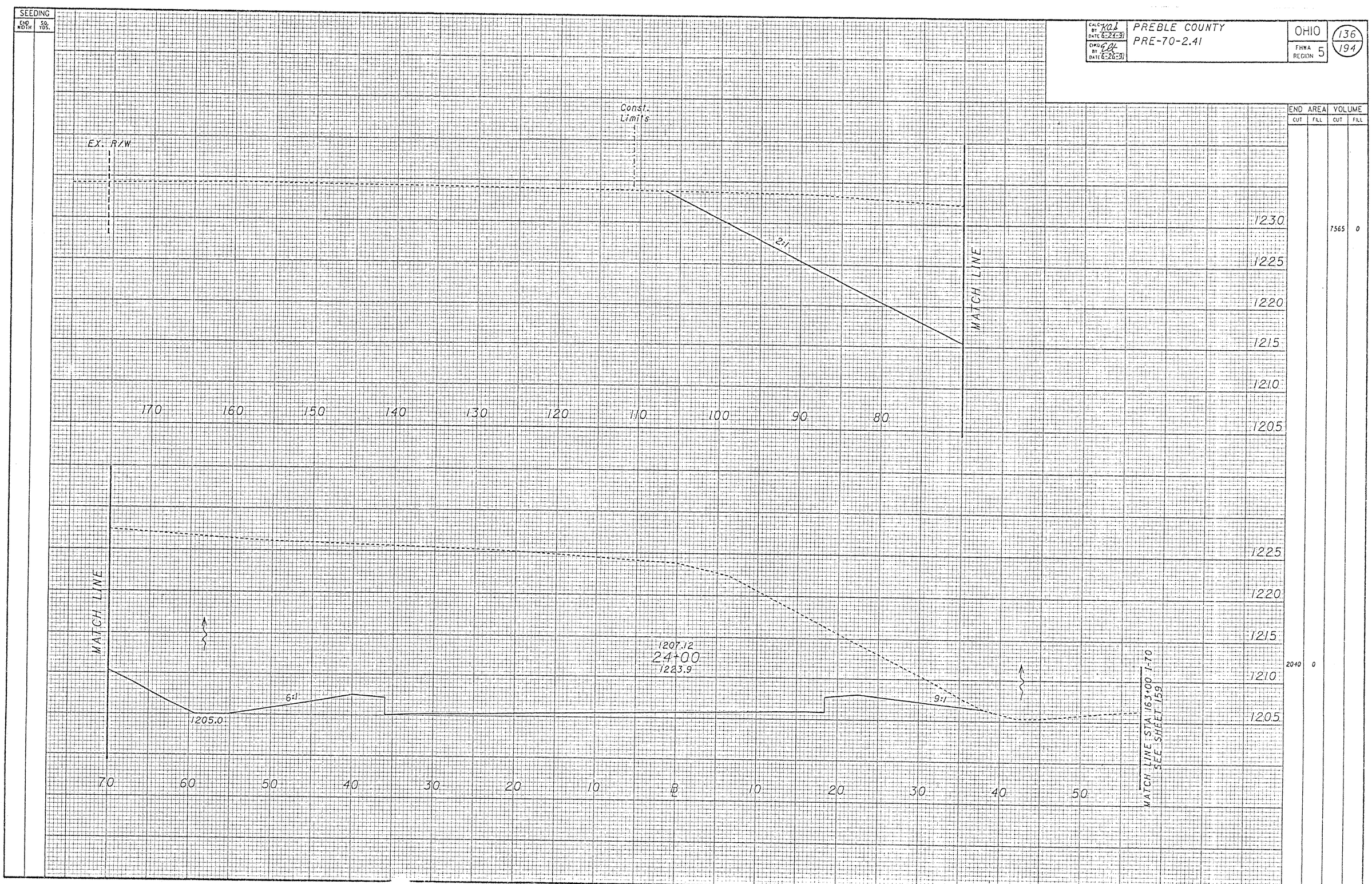
80 90 100 110

AHEAD "S"	1771	46
BACK "S"	596	46
BACK "V"	1175	0

CROSS SECTIONS STA 23+00 LINE "S" WESTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAI DATE 6-24-97	PREBLE COUNTY	OHIO	136
CHKD BY EK DATE 6-26-97	PRE-70-2.41	FHWA REGION 5	194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		7565	0
2040	0		

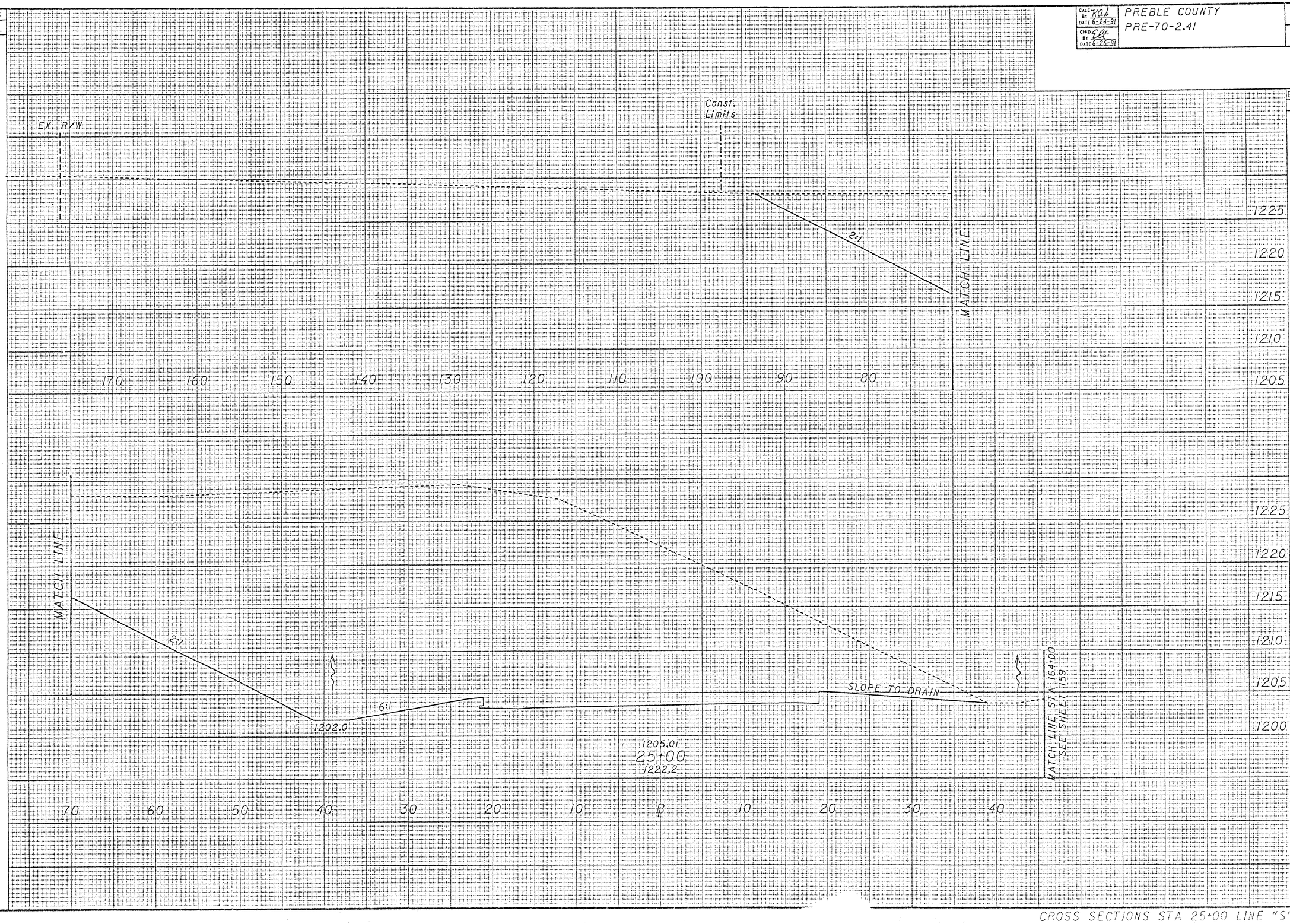
CROSS SECTIONS STA 24+00 LINE RCR WIDENING

CALC BY	DATE	CHKD BY	DATE
KAL	6-24-91	EA	6-26-91

PREBLE COUNTY
PRE-70-2.41

OHIO | FHWA REGION 5 | 137 / 194

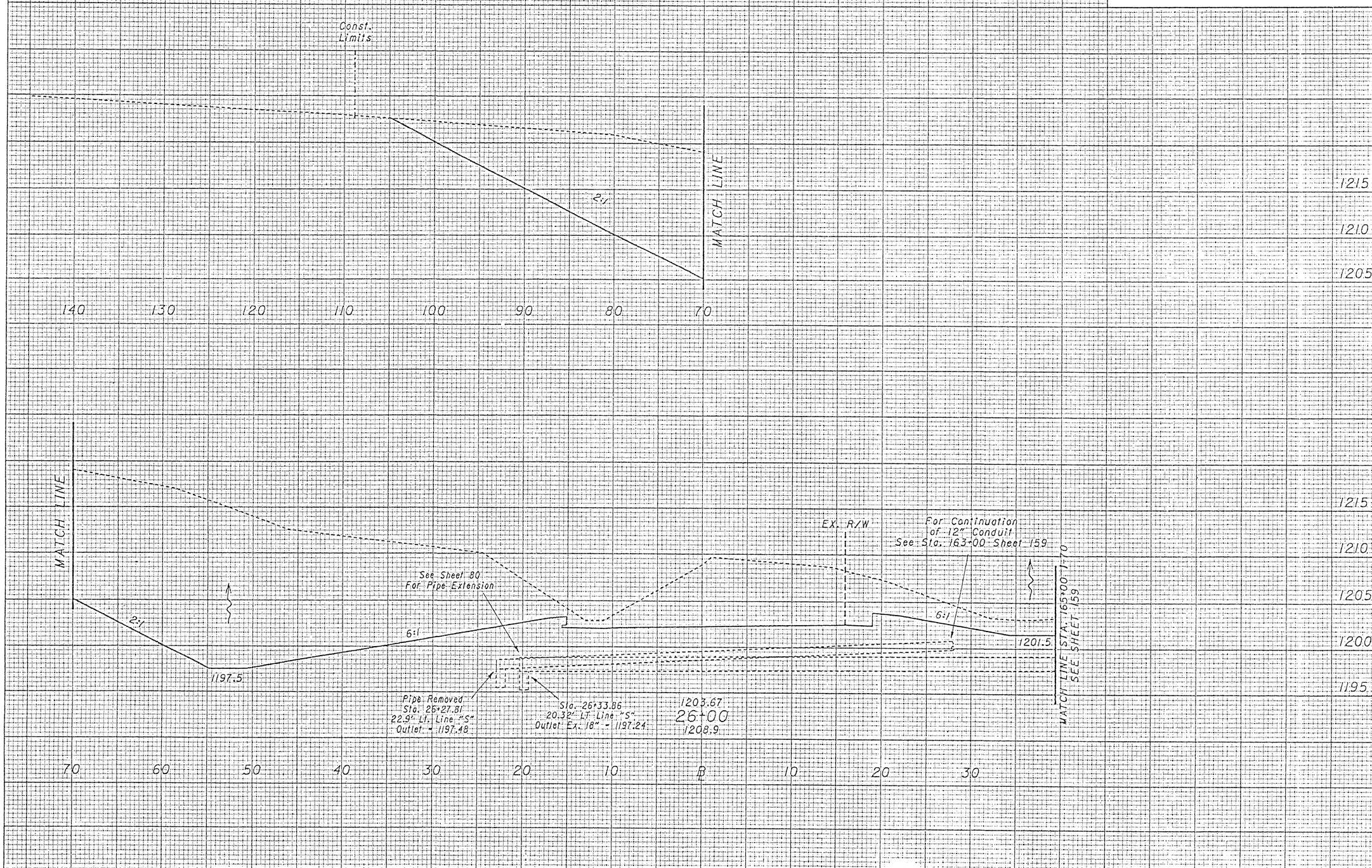
SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				5917	0
				2045	0



CROSS SECTIONS STA 25+00 LINE "S" WESTBOUND

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 6-24-91	PREBLE COUNTY PRE-70-2.41	OHIO	138 / 194
CHKD BY EBL DATE 6-26-91		FHWA REGION 5	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2846	91
1150	0		

CROSS SECTIONS STA 26+00 LINE "S" WESTBOUND

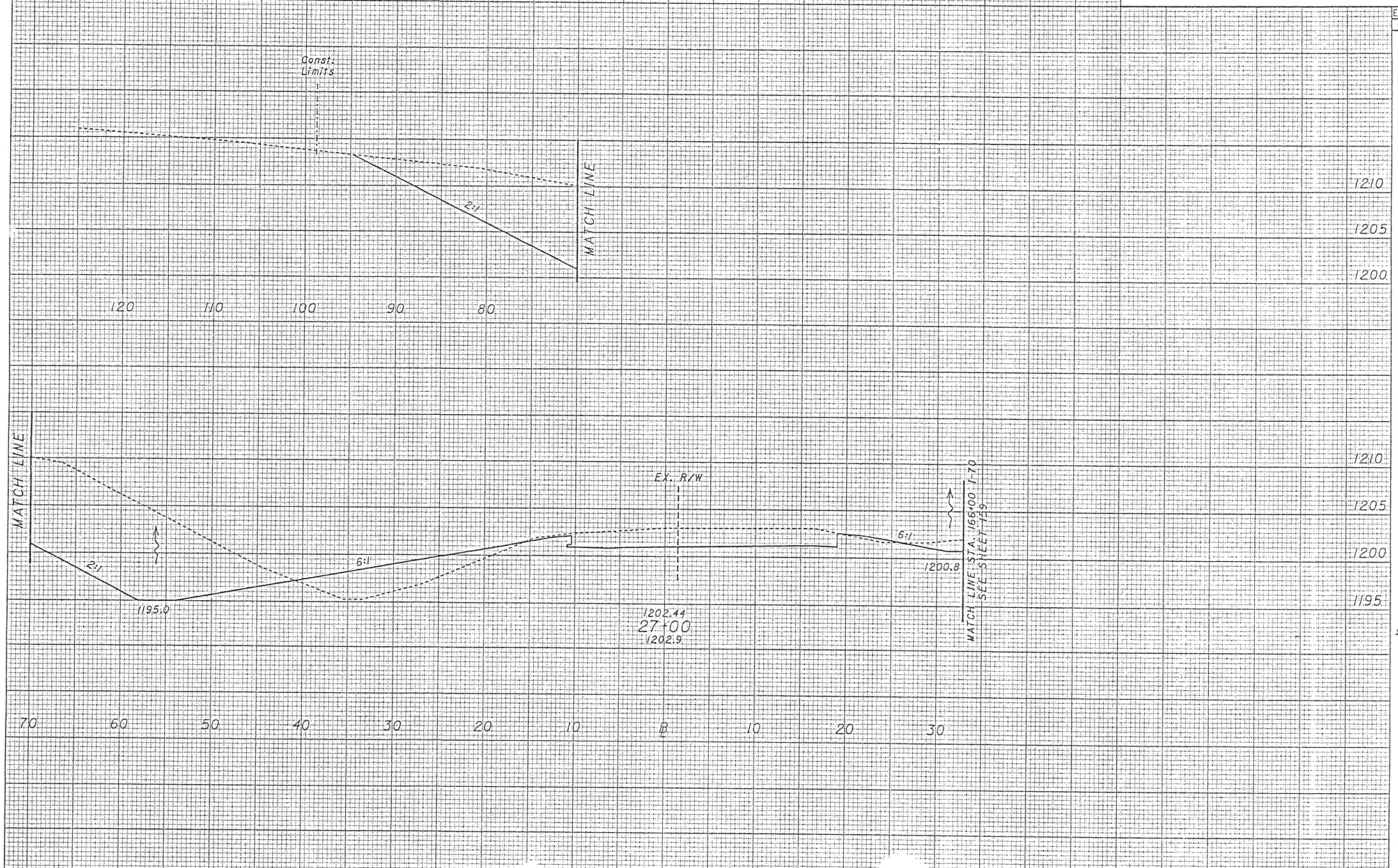
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-11-91
CHKD BY ELT DATE 6-21-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

139
194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		783	98
387	49		

CROSS SECTIONS STA 27+00 LINE "A" WESTBOUND

CALC BY KAL DATE 4-11-97	PREBLE COUNTY	OHIO	140
CHKD BY DATE 6-21-97	PRE-70-2.41	FHWA REGION 5	194

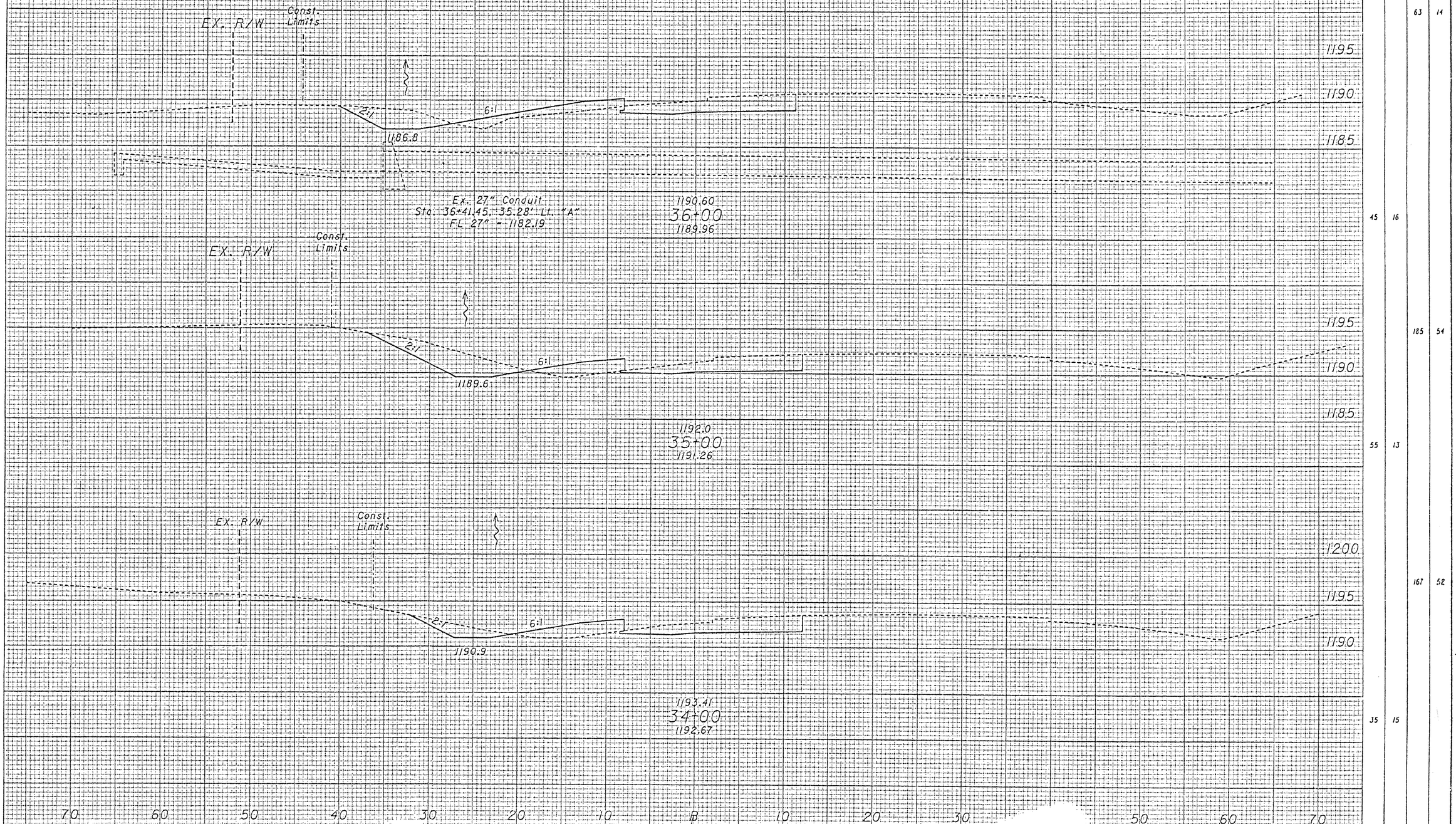
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
				107	94
		30	16		
				267	37
		114	4		
				278	15
		36	4		

EX. R/W
Const. Limits
6:1
1190.7
1198.74
30+00
1198.0
ITEM 202
PAVEMENT REMOVED
1200
1195
1190
EX. R/W
Const. Limits
6:1
2:1
1191.6
EX. C.B. Sta 28+89
Grate Elev. 1198.24
F.L. Elev. 1193.72
1200.01
29+00
1199.3
ITEM 202
PAVEMENT REMOVED
EX. R/W
Const. Limits
Rock Channel Protection
Type D With Filter
8:1
2:1
1193.4
11.5'
64'-15" Type B Conduit
Sta 28+00 36.5' Lt Line "S"
Outlet Elev. = 1194.4
HW-4A or 4B
1201.21
28+00
1201.4
Catch Basin CB-2-2B
Sta 28+00 27.4 Rt Line "S"
Flow Line Grate = 1200.5
Flow Line 15" = 1195.94
2.4%
1200.6
MATCH LINE STA 167+00 I-70
SEE SHEET 159
1205
1200
1195
1190
70 60 50 40 30 20 10 ℄ 10 20

CROSS SECTIONS STA 28+00 TO STA 30+00 LINE "S" WESTBOUND

CALC BY KAS DATE 4-12-97	PREBLE COUNTY	OHIO	142
CHKD BY [illegible] DATE 6-21-97	PRE-70-2.41	FHWA REGION 5	194

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
				63	14
		45	16		
				185	54
		55	13		
				167	52
		35	15		

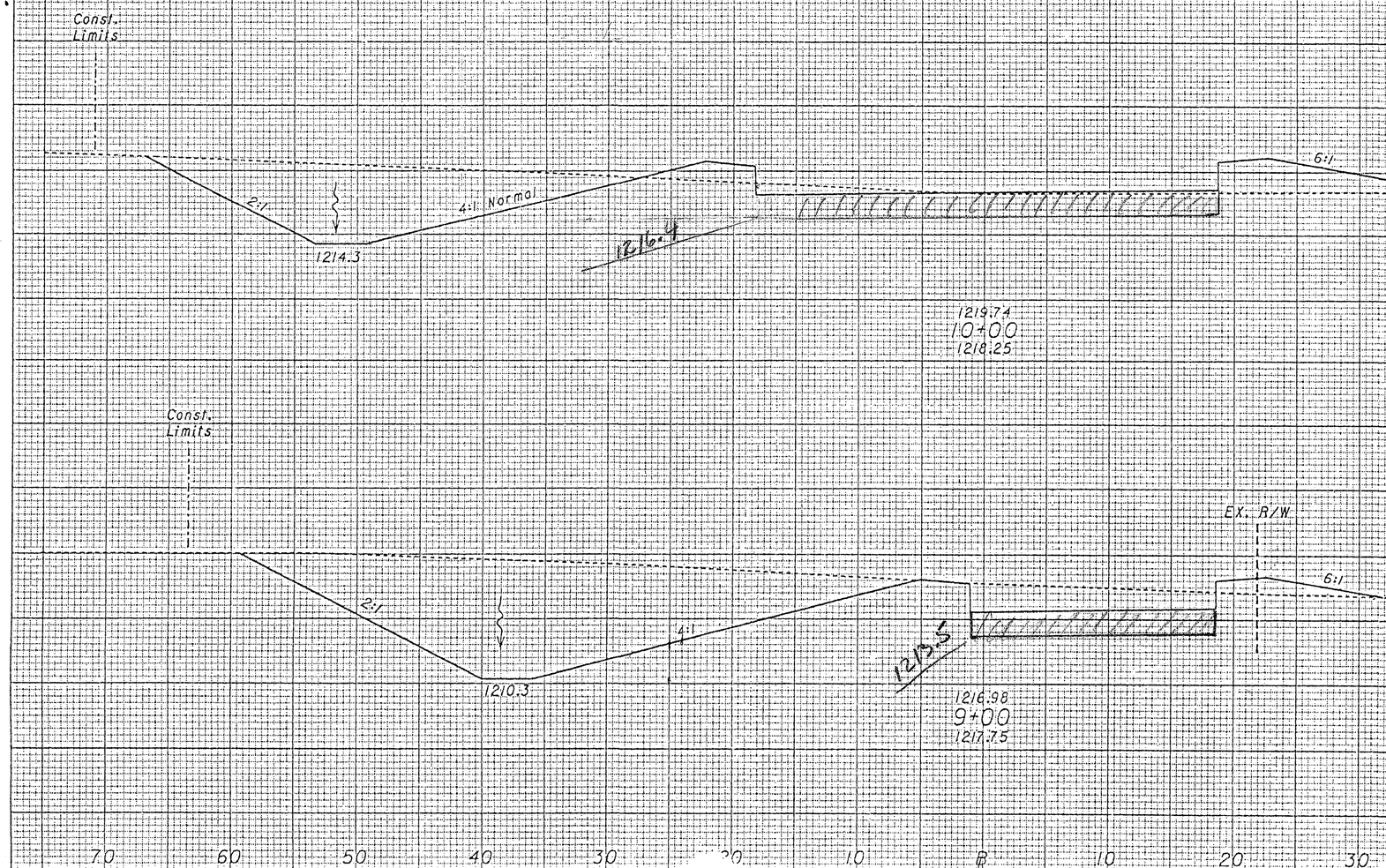


SEEDING	
END WIDTH	SQ. YDS.

CALC BY Kal DATE 4-12-91	PREBLE COUNTY
CHKD BY Elf DATE 6-21-91	PRE-70-2.41

OHIO | FHWA REGION 5 | 143/194

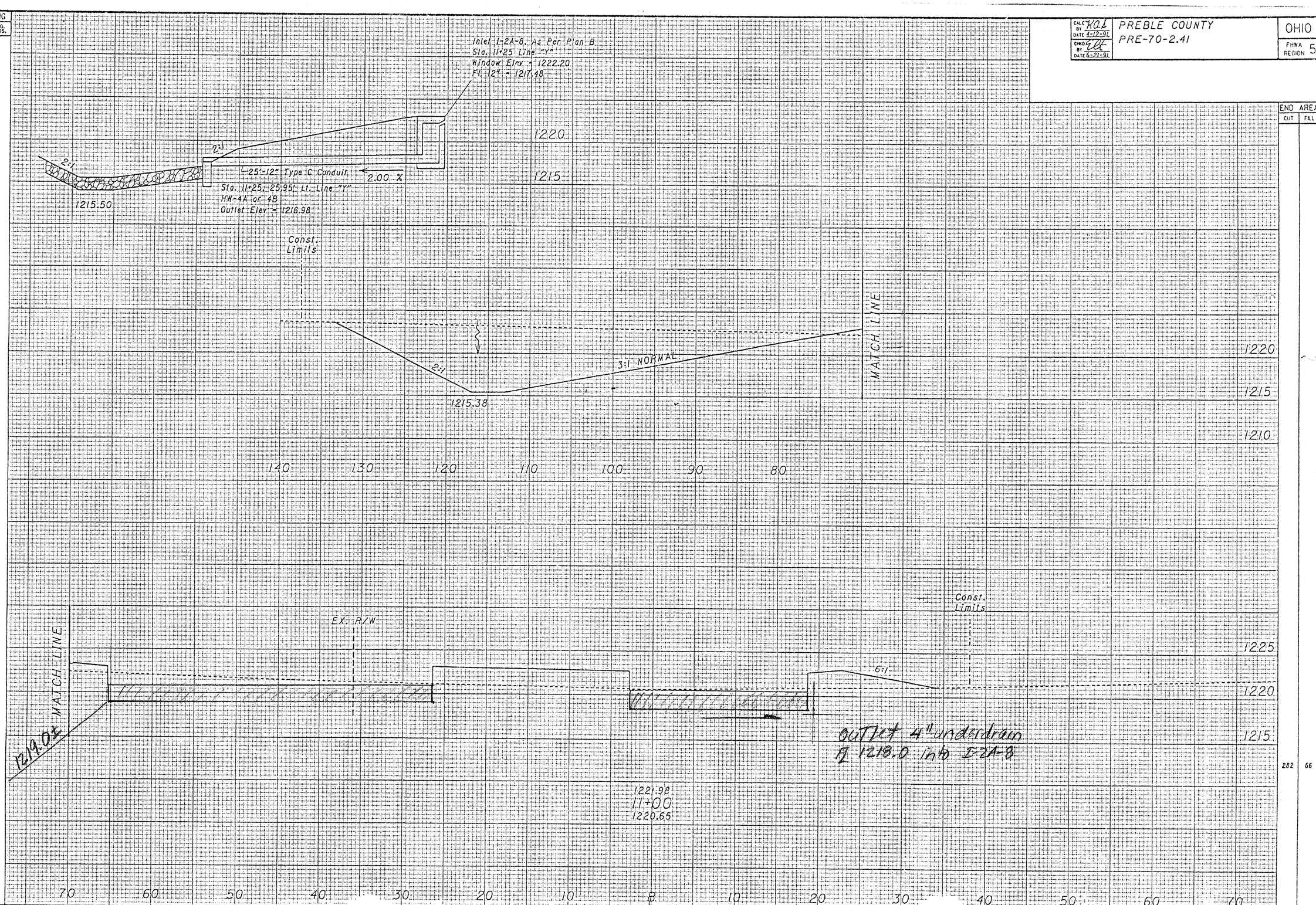
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		783	198
141	41		
		826	96
305	11		
		1291	21
392	0		



Sta. 8+00 Line "S"

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-12-91	PREBLE COUNTY	OHIO	144
CHKD BY DATE 6-21-91	PRE-70-2.41	FHWA REGION 5	194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2439	157
		282	66

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 6-24-91
CHKD BY EA DATE 6-26-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

145
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		5250	106
		1035	15

Const. Limits

Sta. 12+25.41 Lt. Line "Y"
HW-4A or 4B
Outlet Elev. = 1217.08

app. drain outlet
1217.08

2:1
3:1 NORMAL
2:1
1216.3
64"-12" Type B Conduit
12.3'

SEE SHEET 146 FOR INLET

MATCH LINE LEFT

MATCH LINE RIGHT

EX. R/W

3:1 NORMAL
1219.30

1223.04
12+00
1228.4

Const. Limits

6:1

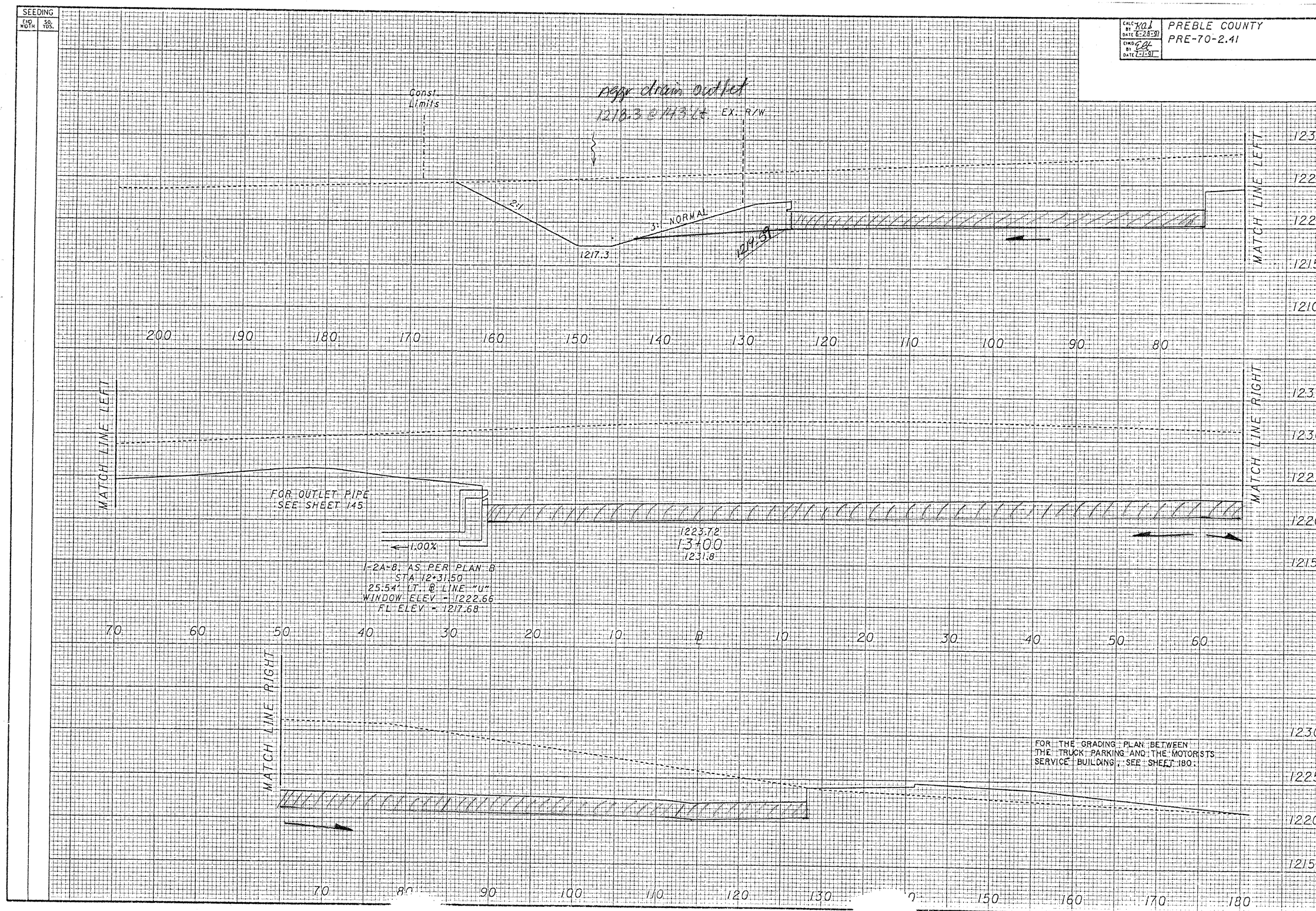
FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BUILDING SEE SHEET 180.

1225
1220
1215
1210
1230
1225
1220
1215
1210
1225
1220
1215

200 190 180 170 160 150 140 130 120 110 100 90 80
70 60 50 40 30 20 10 B 10 20 30 40 50 60
70 80 90 100 110 120 130 140 150 160 170 180 190

CROSS SECTIONS STA 12+00 LINE RW "B"

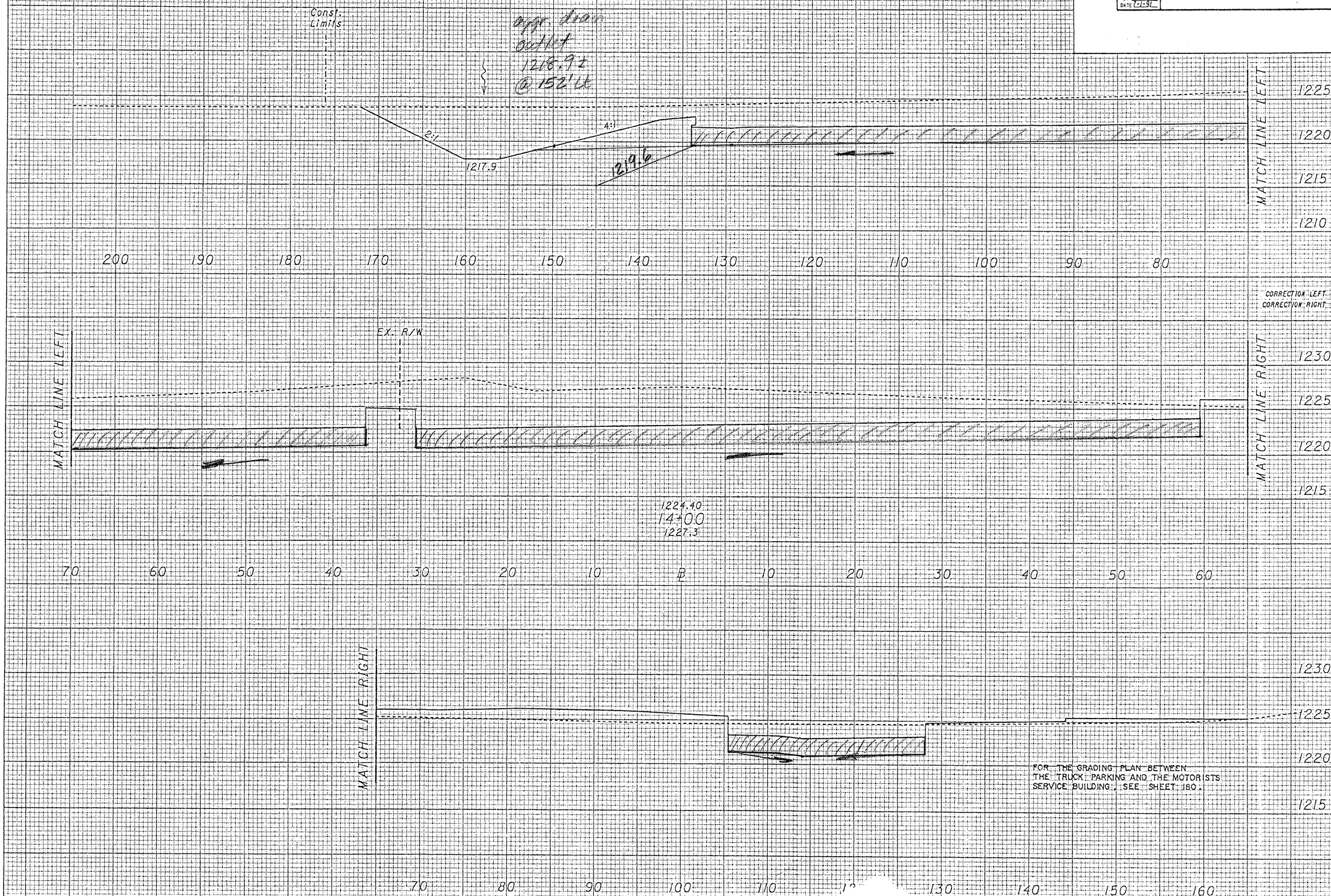
CALC BY KAS DATE 6-28-91	PREBLE COUNTY PRE-70-2.41	OHIO	146 / 194
CHKD BY EEL DATE 7-1-91		FHWA REGION 5	



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		4996	170
1880	42		

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 6-28-91	PREBLE COUNTY PRE-70-2.41	OHIO	147 / 194
CHKD BY EL DATE 7-1-91		FHWA REGION 5	

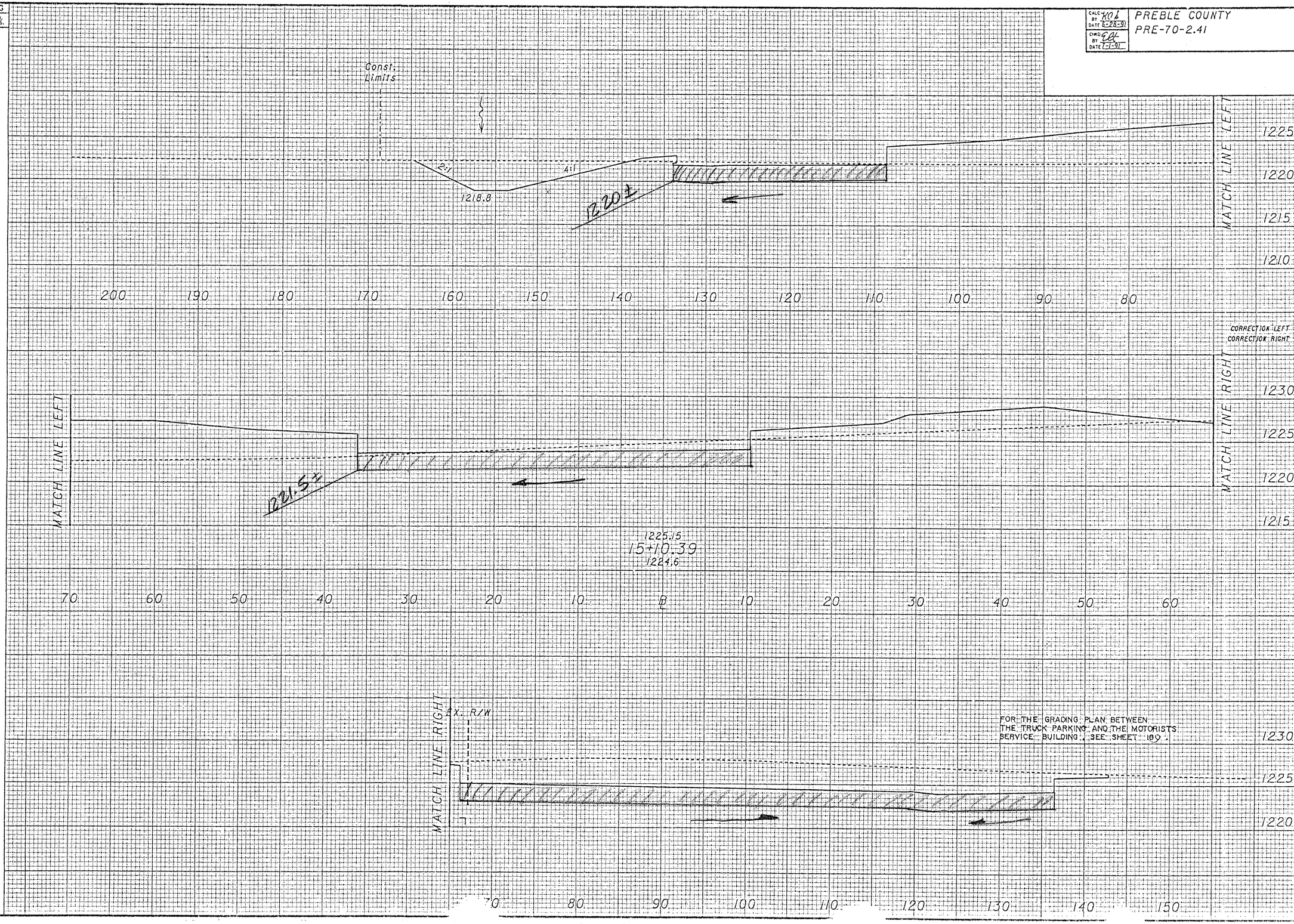


FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BUILDING, SEE SHEET 180.

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			2271	783
CORRECTION LEFT			-65	-23
CORRECTION RIGHT			-38	-10
	818	50		

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KOL DATE 6-28-91	PREBLE COUNTY PRE-70-2.41	OHIO	148 / 194
CHKD BY EEL DATE 7-1-91		FHWA REGION 5	



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			1032	524
CORRECTION LEFT			161	281
CORRECTION RIGHT			-110	-13
	293	333		

SEEDING	
END WIDTH	SQ. YDS.

CALC BY	DATE
KAL	6-28-91
CHKD BY	DATE
EJL	7-31-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

149
194

Const. Limits

2:1

4:1

1219.7

1220.25

MATCH LINE LEFT

MATCH LINE RIGHT

1225.60
15+76.25
1227.0

EX. R/W

FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BUILDING, SEE SHEET 180.

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
			1630	106
CORRECTION LEFT			357	78
CORRECTION RIGHT			19	0
			553	97

CROSS SECTION STA 15+76.25 LINE AH

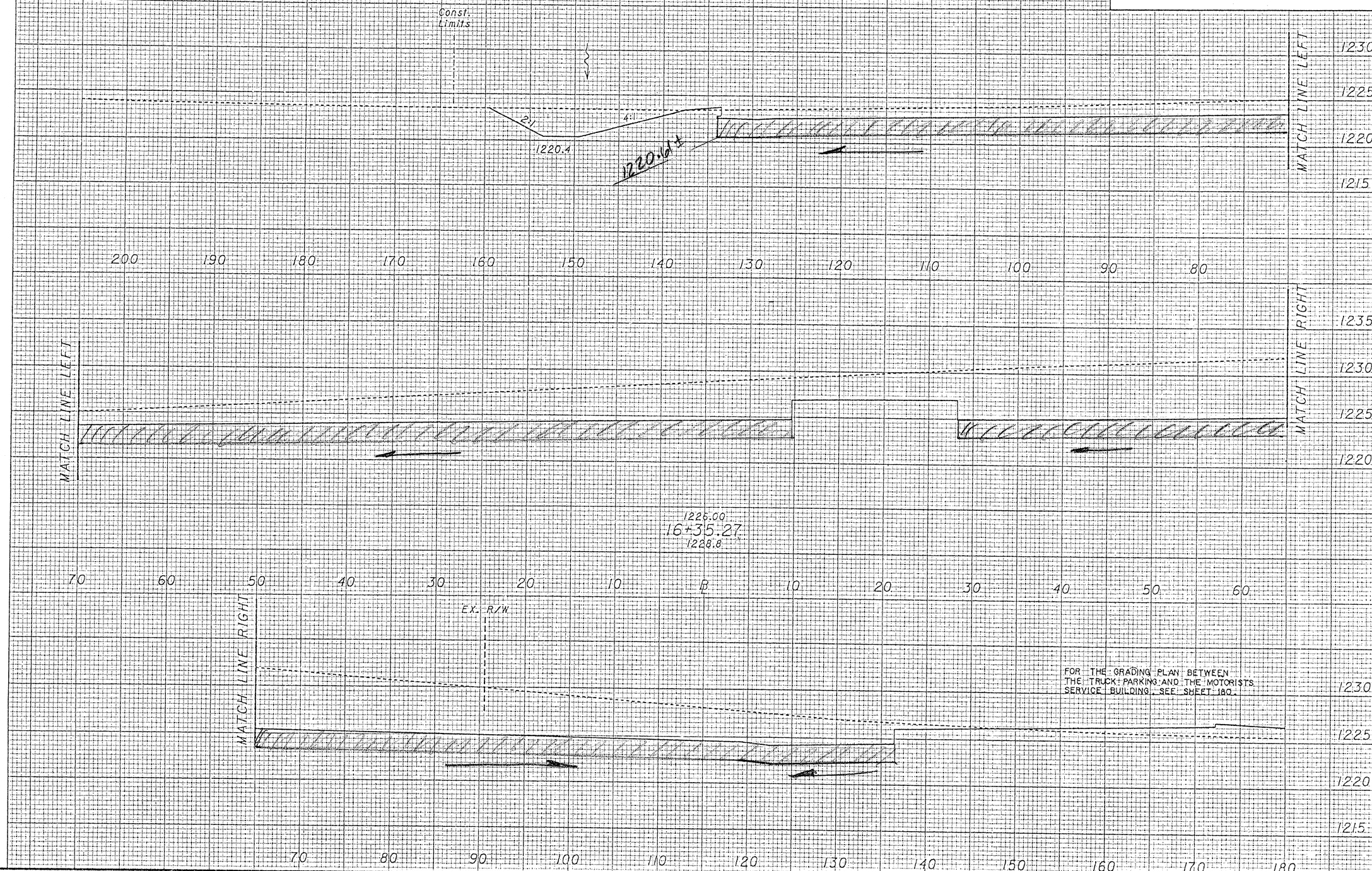
SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAS DATE 4-12-91
CHKD BY ELL DATE 6-21-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

150
194

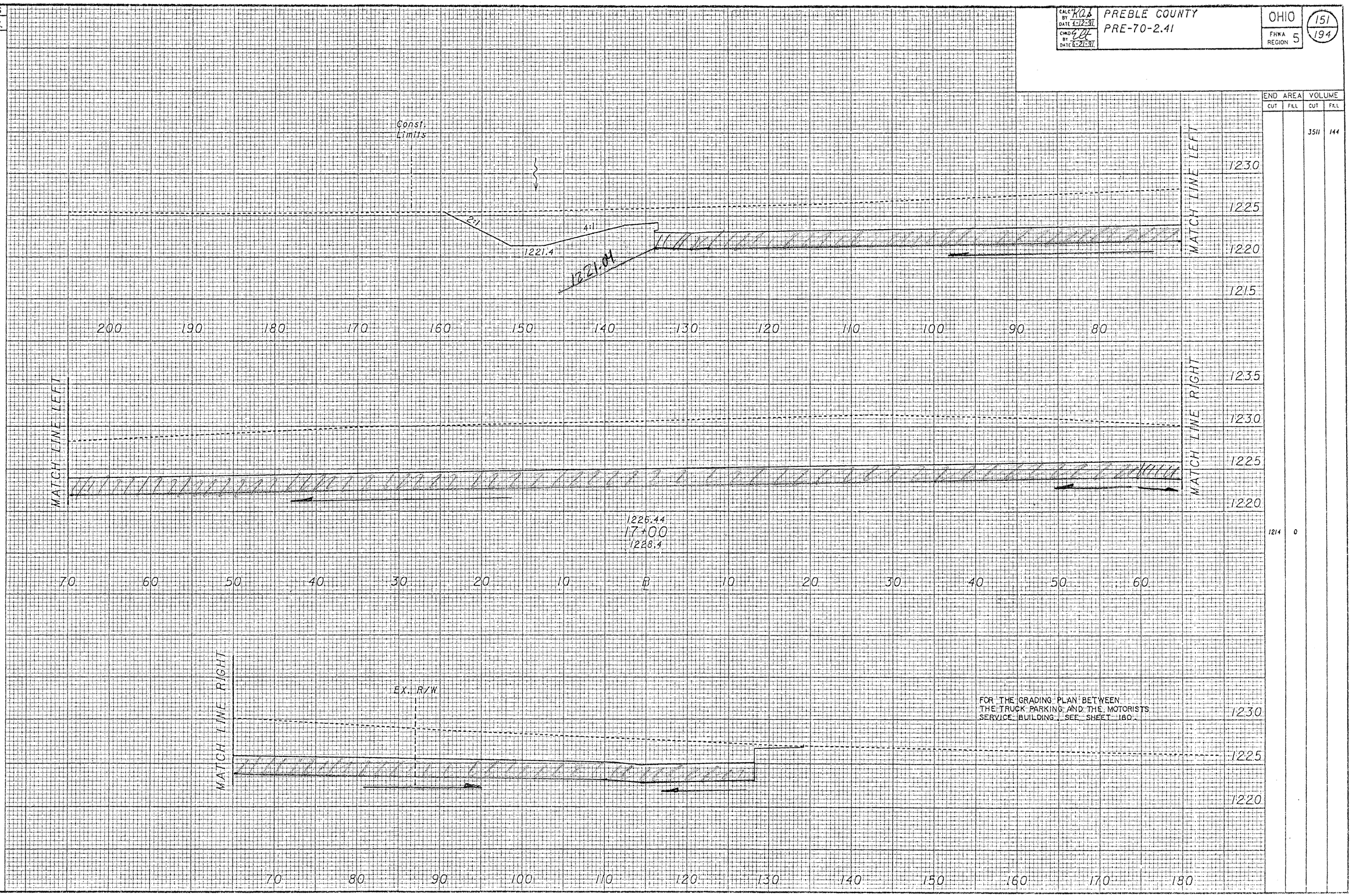


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2574	25
933	21		

SEEDING	
END WIDTH	SQ. YDS.

CALC'D BY KAS DATE 4-12-91	PREBLE COUNTY PRE-70-2.41	OHIO	151
CHK'D BY DATE 5-21-91		FHWA REGION 5	194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3511	144
		1214	0



CROSS SECTIONS STA 17+00 LINE ON WEST BOUND

SEEDING	
END WIDTH	SQ. YDS.

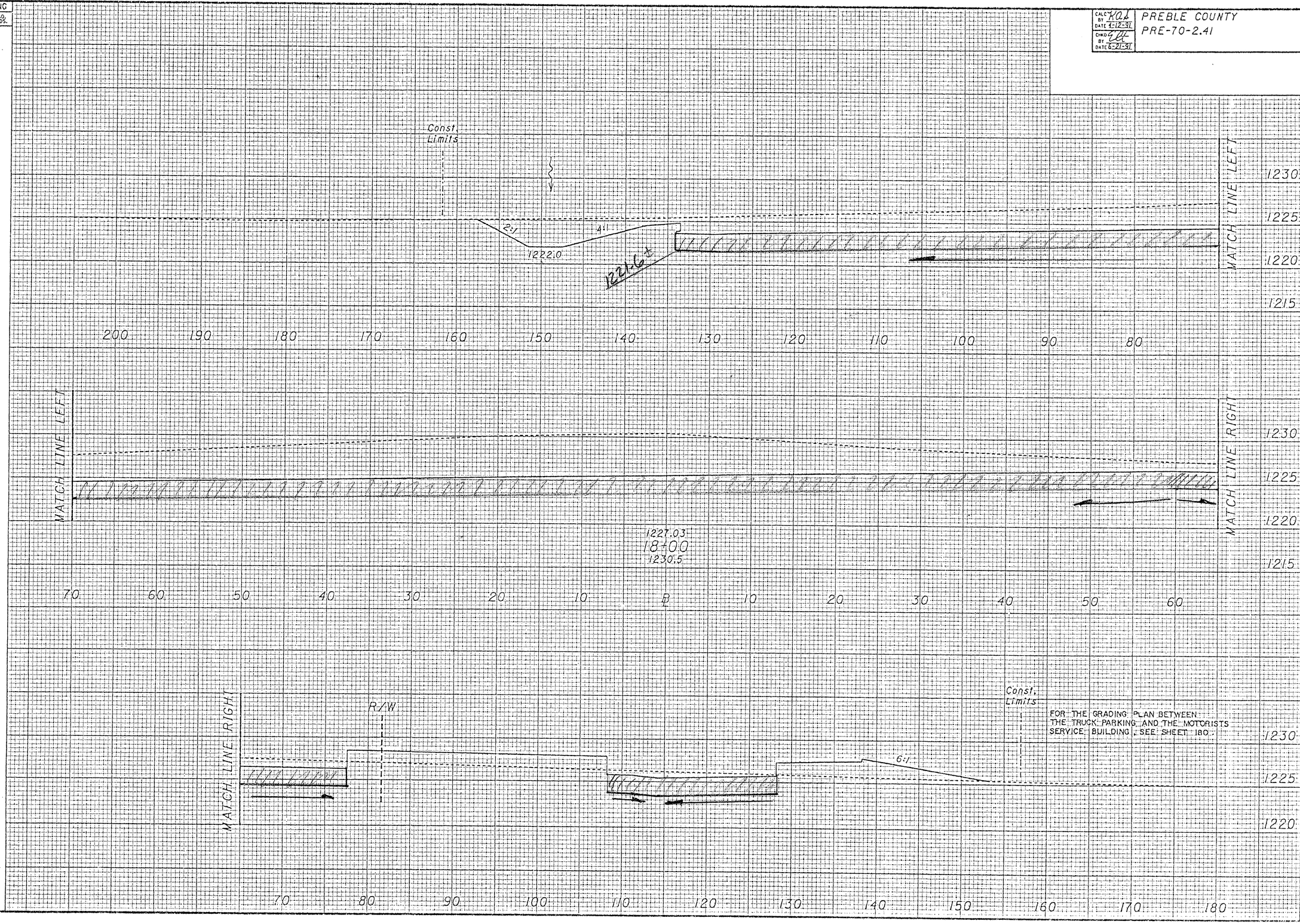
CALC BY KAA DATE 4-12-91
CHKD BY [illegible] DATE 6-21-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

152
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1667	2764



682 76

CROSS SECTION STA 18+00 LINE WW WEST BOUND

SEEDING	
END WIDTH	SQ. YDS.

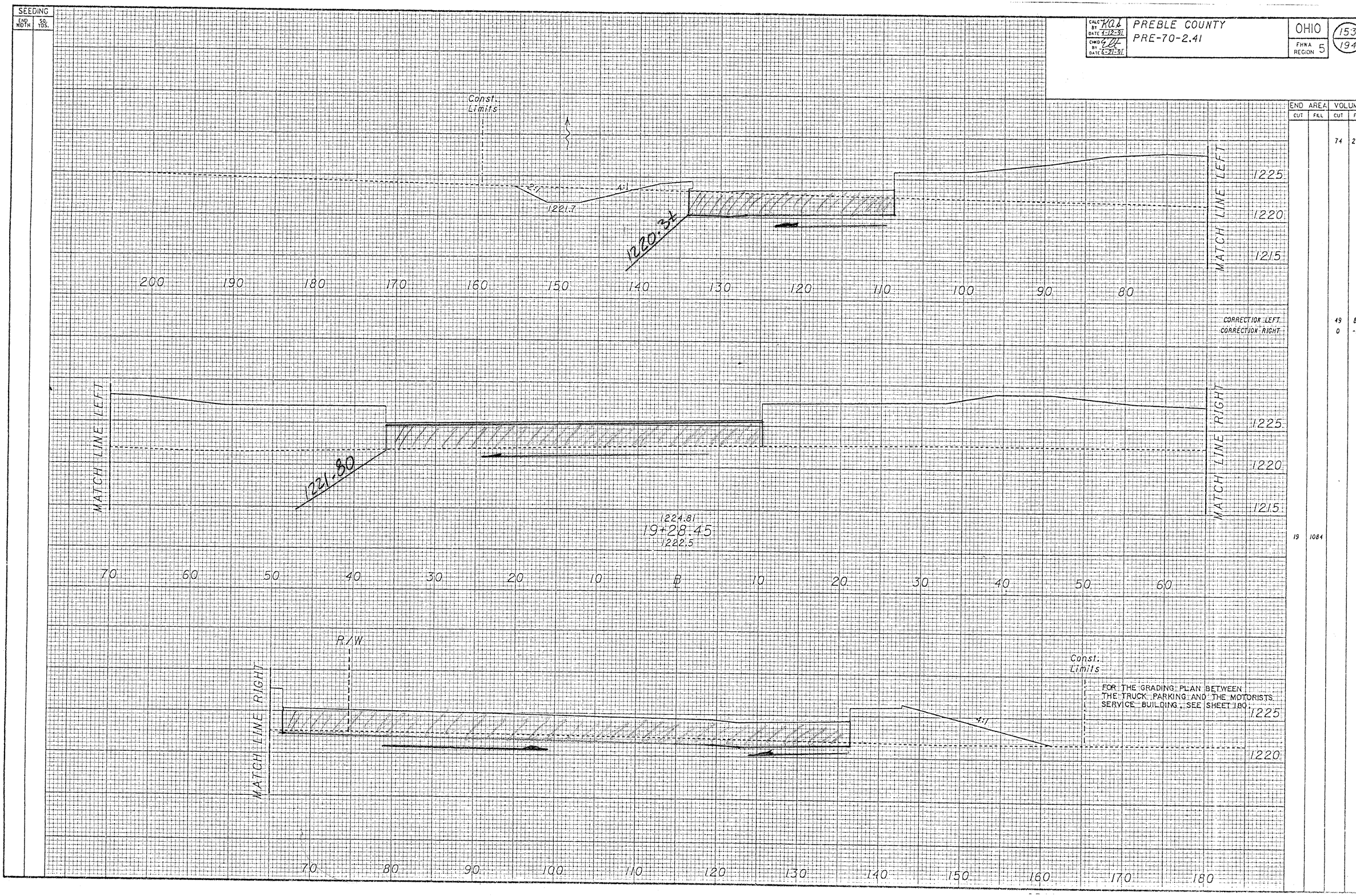
CALC BY	DATE
KAS	4-12-91
CHKD BY	DATE
	6-21-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

153
194

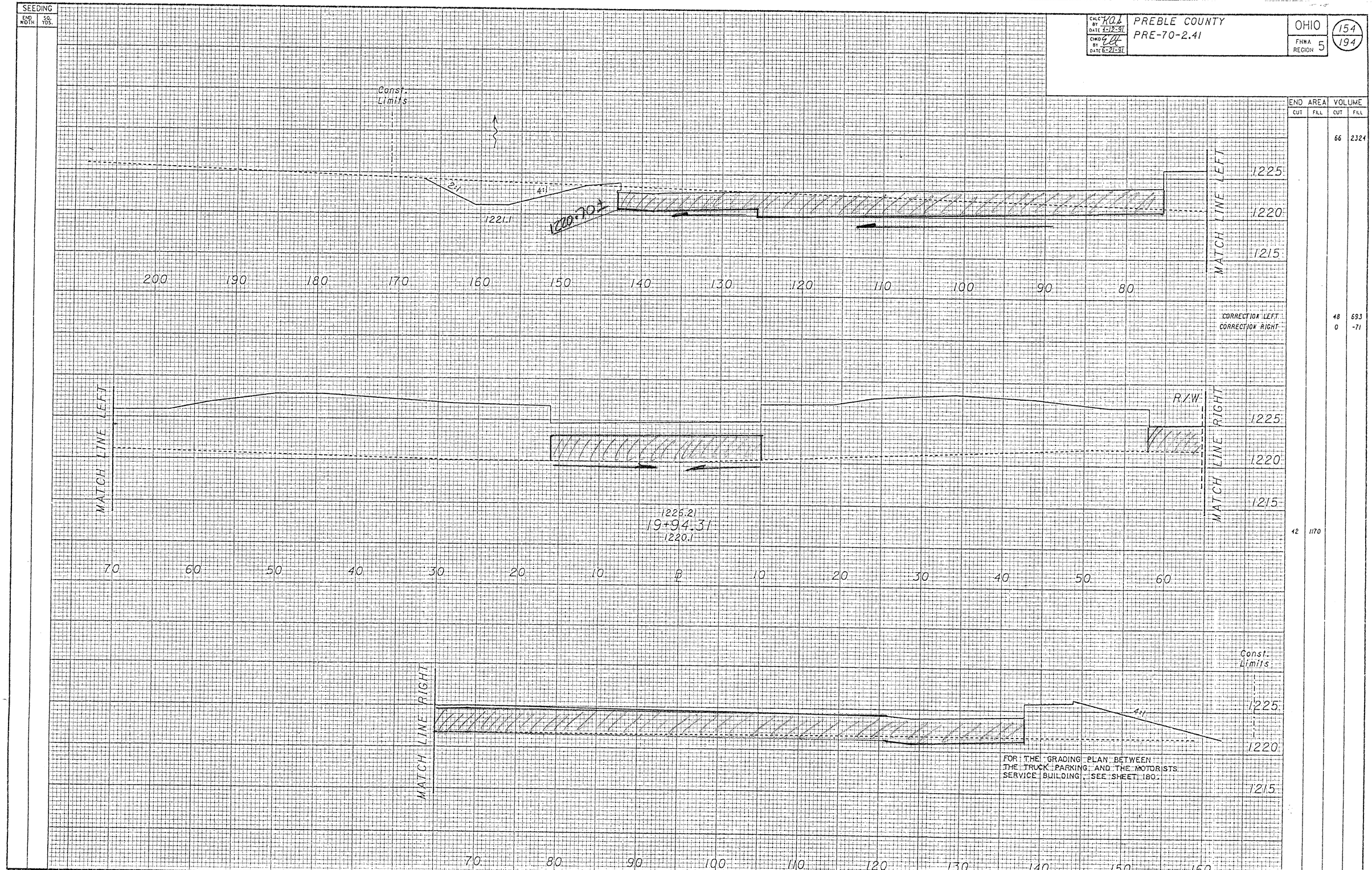
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		74	2749
		49	813
		0	-211
		19	1084



SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-12-97	PREBLE COUNTY	OHIO	154
CHKD BY DATE 6-21-97	PRE-70-2.41	FHWA REGION 5	194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		66	2324
		18	693
		0	-71
		42	1170



FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BUILDING, SEE SHEET 180.

SEEDING	
END WIDTH	SQ. YDS.

CALC BY KAL DATE 4-12-91	PREBLE COUNTY	OHIO	155
CHKD BY DATE 6-21-91	PRE-70-2.41	FHWA REGION 5	194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		139	5248
		18	956

Const. Limits

5:1

4:1

1220.4

1219.25

MATCH LINE LEFT

1225

1220

1215

200 190 180 170 160 150 140 130 120 110 100 90 80

EX. R/W

MATCH LINE RIGHT

1225

1220

1215

1225.51

20+53.33

1218.9

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Const. Limits

1225

4:1

1220

1215

MATCH LINE RIGHT

70 80 90 100 110 120 130 140 150 160

FOR THE GRADING PLAN BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BUILDING, SEE SHEET 180.

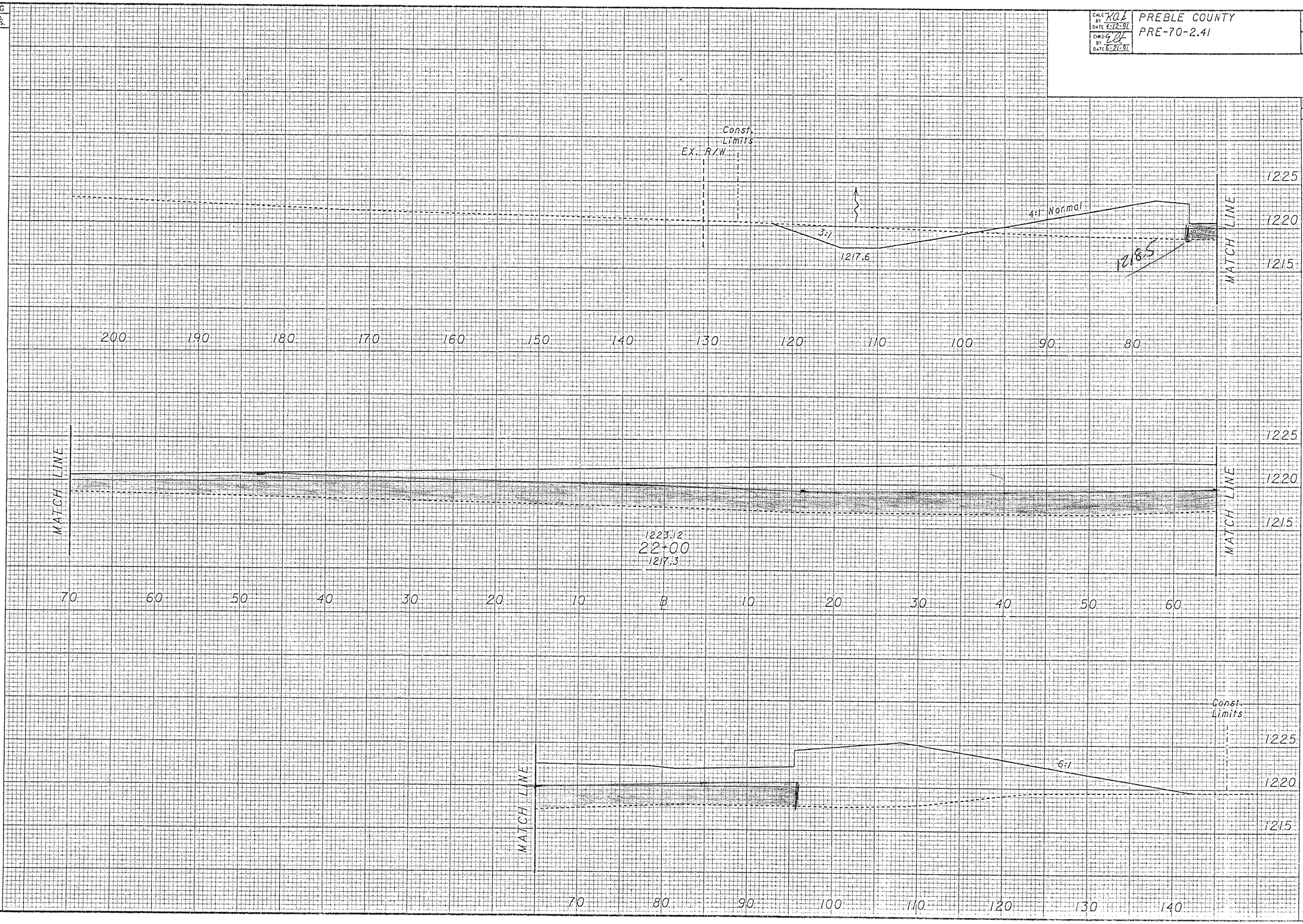
SEEDING	
END WIDTH	SQ. YDS.

CALC. BY KAS DATE 4-12-91
CHKD. BY ELL DATE 6-21-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

156
194



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		128	2261
33	976		

CALC BY	DATE	CHK'D BY	DATE
Elt	6-21-91	KAS	7-3-91

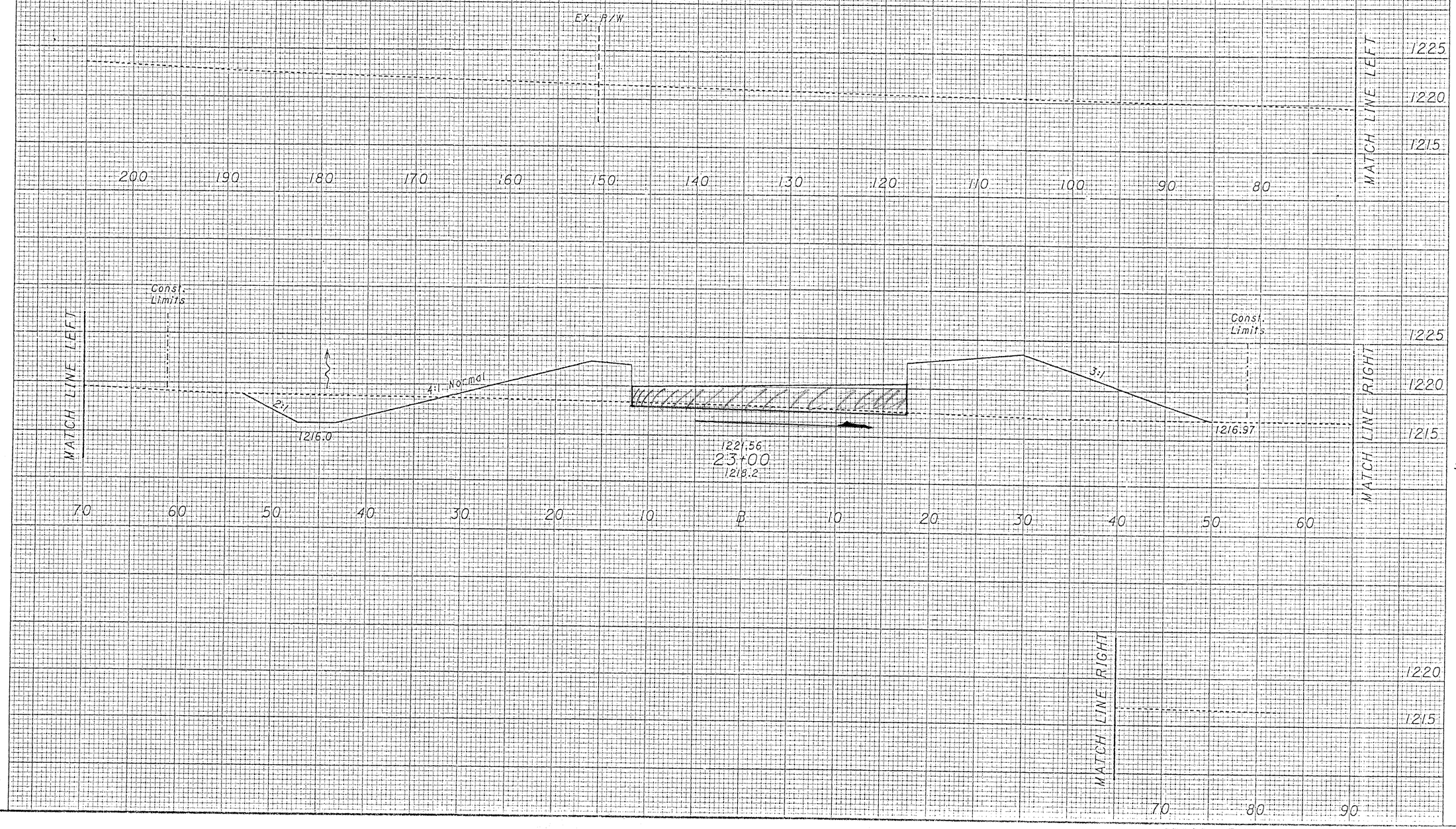
PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

157
194

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		109	681
36	245		



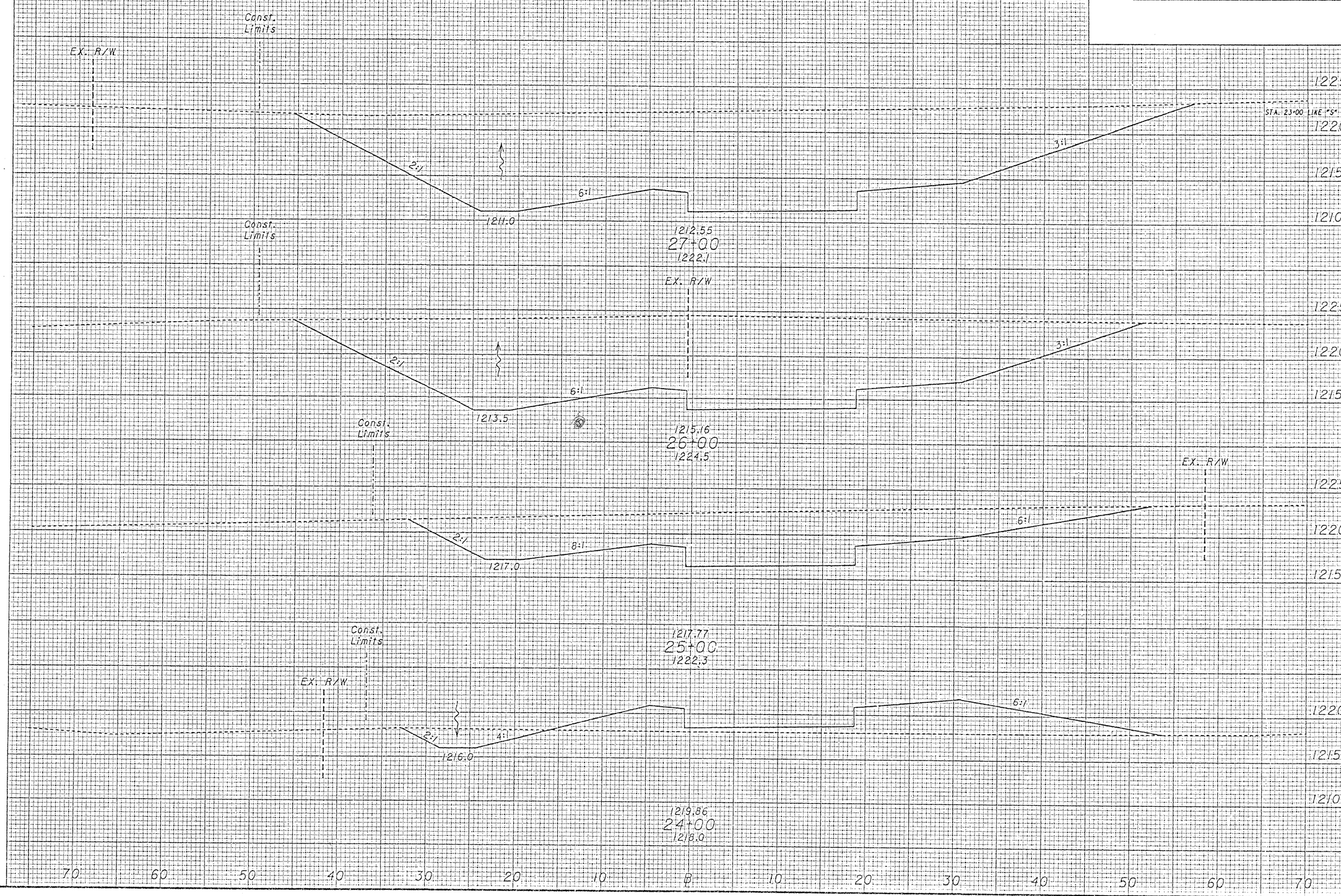
SEEDING	
END WIDTH	SQ. YDS.

CALC BY EBL DATE 7-3-91
CHKD BY KAL DATE 7-3-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

158
194



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1175	0		
		4048	0
793	0		
		2809	0
724	0		
		1909	0
307	0		
		611	228
23	123		

CROSS SECTIONS STA. 24+00 TO STA. 27+00 LINE "W" WEST BOUND

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		100	31
33	19		
		63	102
1	36		
		1	165
1	53		

MATCH LINE STA. 25+00 LINE "S" SEE SHEET 138

SLOPE TO DRAIN

1205

1200

1204.78
165+00
1204.78

EX. 18" Conduit

MATCH LINE STA. 25+00 LINE "S" SEE SHEET 137

1205

1200

1206.18
164+00
1206.18

MATCH LINE STA. 24+00 LINE "S" SEE SHEET 136

1210

1205

1207.58
163+00
1207.58

℄

EX. C.B. STA. 24+10
94' RT. LINE "S"
GRATE ELEV. 1207.15
FL. ELEV. 1201.70

50 40 30 20 10 E.P.

SEEDING	
END WIDTH	SQ. YDS.

CALC. BY GH DATE 6-10-91
CHKD. BY KAL DATE 6-10-91

PREBLE COUNTY
PRE-70-2.41

OHIO
FHWA REGION 5

159
194

END AREA		VOLUME	
CUT	FILL	CUT	FILL
8	7		
		54	18
21	11		

1200

1195

MATCH LINE STA. 28+00 LINE "S" SEE SHEET 140

SLOPE TO DRAIN

1200

1195

1201.98
167+00
1201.98

1205

1200

MATCH LINE STA. 27+00 LINE "S" SEE SHEET 139

SLOPE TO DRAIN

1205

1200

1203.38
166+00
1203.38

40 30 20 10 E.P.

CROSS SECTIONS STA 163+00 TO STA 167+00 I-70 WEST BOUND

LIGHTING GENERAL NOTES

UTILITIES NOTIFICATION
AT LEAST TWO(2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ANY AREA WHICH MAY INVOLVE UNDERGROUND FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER. THE REGISTERED UNDERGROUND UTILITY PROTECTION SERVICES AND THE OWNERS OF ALL UNDERGROUND UTILITY FACILITIES SHOWN IN THE PLANS.

AFTER NOTICE IS RECEIVED, THE OWNER OF ANY UNDERGROUND UTILITY FACILITY THAT IS TO REMAIN IN SERVICE DURING AND/OR AFTER CONSTRUCTION SHALL WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO(2) DAYS AHEAD OF THE PLANNED CONSTRUCTION.

HIGH MAST LUMINAIRE
THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS SPECIFIED IN SECTION 713.21 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS ARE HEREBY WAIVED FOR THIS PROJECT. INSTEAD, THE LUMINAIRES FOR TOWER LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS.

ASYMMETRIC, TYPE I, LUMINAIRES FOR TOWER LIGHTING MAY BE HOLOPHANE "HMST" TEST #36801 OR #36802, OR GENERAL ELECTRIC "HM" TEST #7349.

ASYMMETRIC, TYPE I OR III, LUMINAIRES FOR TOWER LIGHTING MAY BE HOLOPHANE "HMST" TEST #36648, OR GENERAL ELECTRIC "HM" TEST #7349.

SYMMETRIC, TYPE V, LUMINAIRES FOR TOWER LIGHTING MAY BE HOLOPHANE "HMST" TEST #36383, OR GENERAL ELECTRIC "HM" TEST #6289

IN ADDITION, OTHER LUMINAIRES WILL BE CONSIDERED IF THE DESIGNED INTENSITY AND UNIFORMITY ARE PROVIDED USING THE DESIGNED POLE LOCATIONS AND THE DESIGNED NUMBER AND TYPE OF FIXTURES PER POLE.

713.14 LAMPS
HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", PHILLIPS, "CERAMALUX", SYLVANIA "LUMALUX" OR EQUAL APPROVED BY THE ENGINEER.

HIGH MAST LIGHT TOWERS
THE MANUFACTURER SHALL SUBMIT A REPORT FROM AN INDEPENDENT TESTING LABORATORY TO SHOW THAT THE LUMINAIRES DO NOT RECEIVE MORE THAN THE SPECIFIED ACCELERATION LOAD. THE TESTING LABORATORY'S REPORT SHALL SPECIFY IN DETAIL THE MOUNTING LOCATIONS OF THE ACCELEROMETERS AND THE TEST PROCEDURES USED. IN ADDITION TO THIS REPORT, ODOT RESERVES THE RIGHT TO CONDUCT FIELD MEASUREMENTS OF THOSE ACCELERATION LOADS AND TO ACCEPT ONLY THOSE DESIGNS IN WHICH THE TESTED INSTALLATIONS MEET THE SPECIFICATIONS.

THE TERMINAL BLOCK SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS SHALL BE INCLUDED IN THE PRICE OF THE TOWER.

TOWER FOUNDATIONS
TOWER FOUNDATIONS SHALL PROJECT ONE FOOT ABOVE GRADE OR ABOVE MAINTENANCE PLATFORM SURFACE IN LIEU OF BEING SET FLUSH AS SHOWN IN THE STANDARD DRAWINGS.

ITEM SPECIAL - DISCONNECT EXISTING CIRCUIT
THIS ITEM OF WORK SHALL CONSIST OF TERMINATING AN EXISTING CIRCUIT BY CUTTING AND REMOVING THE CIRCUIT WIRES AT THE APPROPRIATE EXISTING PULL BOX OR CONTROL CENTER. ANY CABLE THAT IS TO BE ABANDONED SHALL BE TERMINATED IN A MANNER SUCH THAT NO CABLE IS LEFT IN THE PULL BOX, CONTROL CENTER, OR CONDUITS.
ANY CABLE THAT IS TO BE USED FOR RECONNECTION SHALL BE CUT IN A MANNER SO THAT THERE IS SUFFICIENT LENGTH OF CABLE LEFT FOR RECONNECTION.
CARE SHALL BE TAKEN NOT TO DAMAGE THE EXISTING PULL BOXES AND CONTROL CENTERS.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM SPECIAL "DISCONNECT EXISTING CIRCUIT" AND SHALL BE FULL COMPENSATION INCLUDING ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THE DISCONNECTION IN A SATISFACTORY WORKMANLIKE MANNER.

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 "380 LINEAR FEET OF ITEM 603, 4" CONDUIT TYPE E" IS INCLUDED IN THE LIGHTING GENERAL SUMMARY FOR THIS PURPOSE.

LUMINAIRE REMOVED, AS PER PLAN
THIS ITEM OF WORK SHALL CONSIST OF REMOVING AN EXISTING LUMINAIRE. THE LUMINAIRE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE PROJECT SITE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 202 "LUMINAIRE REMOVED, AS PER PLAN".

LIGHT POLE REMOVED, AS PER PLAN
THIS ITEM OF WORK SHALL CONSIST OF REMOVING AN EXISTING LIGHT POLE INCLUDING THE BRACKET(S) AND TRANSFORMER BASE(IF USED). THE POLE, BRACKET ARM(S) AND TRANSFORMER BASE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF THE PROJECT SITE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 202 "LIGHT POLE REMOVED, AS PER PLAN".

LIGHT POLE FOUNDATION REMOVED, AS PER PLAN
THIS ITEM OF WORK SHALL CONSIST OF REMOVING AN EXISTING LIGHT POLE FOUNDATION TO A MINIMUM OF ONE FOOT BELOW FINISHED GRADE, BACKFILLING THE RESULTANT DEPRESSION WITH COMPACTED SOIL AND RESTORING THE DISTURBED AREA.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 202 "LIGHT POLE FOUNDATION REMOVED, AS PER PLAN".

PULL BOX, MISC: 713.08, 48", AS PER PLAN
PULL BOX SHALL BE AS PER STANDARD CONSTRUCTION DRAWINGS EXCEPT IT WILL BE 48" BY 48" WITH A MINIMUM DEPTH OF 48".

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 625 "PULL BOX MISC: 713.08, 48", AS PER PLAN".

ITEM SPECIAL - SPECIAL - PLASTIC CAUTION TAPE
THE LOCATION OF UNDERGROUND DUCT CABLE OR NON-METALLIC CONDUIT, WHEN INSTALLED IN LOCATIONS OTHER THAN THE NORMAL OR ALTERNATE TRENCH ALIGNMENT SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS SHALL BE MARKED BY THE USE OF A CONTINUOUS IDENTIFYING TAPE BURIED IN THE TRENCH ABOVE THE LINE. THE IDENTIFYING TAPE SHALL BE AN INERT MATERIAL, APPROXIMATELY 6" WIDE, COMPOSED OF POLYETHYLENE PLASTIC, HIGHLY RESISTANT TO ALKALIS, ACID OR OTHER CHEMICAL COMPONENTS LIKELY TO BE ENCOUNTERED IN SOILS. THE TAPE SHALL BE BRIGHT YELLOW WITH IDENTIFYING PRINTING "ELECTRIC" IN BLACK LETTERS, ONE SIDE ONLY. TAPES SHALL BE SUPPLIED IN CONTINUOUS ROLLS WITH THE IDENTIFYING LETTERING REPEATED CONTINUOUSLY THE FULL LENGTH OF THE TAPE. IDENTIFYING TAPES SHALL BE BURIED IN THE ELECTRIC LINE TRENCH WITH ONE STRIP PLACED APPROXIMATELY DOWN THE CENTERLINE AND LOCATED APPROXIMATELY 8" TO 12" BELOW THE FINISHED GRADE. THE TAPE SHALL BE PLACED IN THE TRENCH WITH THE PRINTED SIDE UP AND SHALL BE ESSENTIALLY PARALLEL WITH THE FINISHED SURFACE. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT THE TAPE IS NOT PULLED, DISTORTED, OR OTHERWISE MISPLACED IN COMPLETING THE TRENCH BACKFILL. TAPE SHALL BE ALLEN SYSTEM'S, TERRA TAPE, TECTA TAPE OR EQUAL AS APPROVED BY THE ENGINEER.

THE TAPE SHALL BE PAID FOR PER LINEAR FEET OF ITEM SPECIAL "SPECIAL - PLASTIC CAUTION TAPE", COMPLETE AND IN PLACE.

POWER SERVICE, AS PER PLAN
THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

DAYTON POWER AND LIGHT CO.
136 WEST LEXINGTON ROAD
P.O. BOX 368
EATON, OHIO 45320-0368 PHONE: 513-456-4123

ELECTRICAL ENERGY CHARGES FOR THE REST AREA SHALL CONTINUE TO BE PAID BY THE MAINTAINING AGENCY.
PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ITEM 625 POWER SERVICE AS PER PLAN.

FUSING OF LIGHTING CIRCUITS

THE TOWER LIGHTING CIRCUITS SHALL BE FUSED AT 60 AMPS.
THE COST OF RE-FUSING ANY CIRCUITS THAT ARE NOT ALREADY SO FUSED SHALL BE INCIDENTAL TO THE TOWER LIGHTING WORK.

ITEM SPECIAL - TELEPHONE SERVICE
THE TELEPHONE COMPANY FOR THIS PROJECT IS:

THE UNITED TELEPHONE CO. OF OHIO
P.O. BOX 3555
MANSFIELD, OHIO 44907 PHONE: 1-800-472-5624

THE CONTRACTOR SHALL PAY FOR NEW TELEPHONE SERVICE ESTABLISHED BY THIS PROJECT AS WELL AS REASSIGNMENT OF EXISTING SERVICE DUE TO WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM SPECIAL "LIGHTING MISC: TELEPHONE SERVICE".

PULL BOX REMOVED, AS PER PLAN
THIS ITEM OF WORK SHALL CONSIST OF REMOVING AN EXISTING PULL BOX WHICH SHALL THEN BE PROPERLY DISPOSED OF OFF THE PROJECT SITE. THE RESULTANT OPENING SHALL THEN BE BACKFILLED TO GRADE WITH SUITABLE COMPACTED SOIL AND RESTORED TO MATCH THE SURROUNDING AREA.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 202 "CONCRETE PULL BOX REMOVED, AS PER PLAN".

POWER SERVICE REMOVED, AS PER PLAN
THIS ITEM OF WORK SHALL CONSIST OF REMOVING AN EXISTING POWER SERVICE. REMOVAL SHALL INCLUDE ALL MATERIAL AND HARDWARE NORMALLY COMPRISING A POWER SERVICE. THE RESULTANT OPENING SHALL BE BACKFILLED TO GRADE WITH SUITABLE COMPACTED SOIL AND RESTORED TO MATCH THE SURROUNDING AREA. ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE POWER COMPANY FOR THE REMOVAL OF SERVICE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL CHARGES MADE BY THE POWER COMPANY FOR REMOVAL OR REARRANGEMENT OF POWER COMPANY EQUIPMENT AND ELECTICAL SERVICE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 202 "POWER SERVICE REMOVED, AS PER PLAN".

REMOVAL MISC. : TELEPHONE SERVICE REMOVED
THIS ITEM OF WORK SHALL CONSIST OF REMOVING AN EXISTING TELEPHONE SERVICE ATTACHED TO A POWER SERVICE POLE. ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE TELEPHONE COMPANY FOR THE REMOVAL OF SERVICE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL CHARGES MADE BY THE TELEPHONE COMPANY FOR REMOVAL OR REARRANGEMENT OF TELEPHONE COMPANY EQUIPMENT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 202 "REMOVAL MISC: TELEPHONE SERVICE REMOVED".

CALC BY ____ DATE ____ CHKD BY ____ DATE ____

PRE-70-2.41
PREBLE COUNTY

OHIO
FHWA REGION 5

161
194

LIGHTING GENERAL SUMMARY

SHEET NUMBER											PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
				160		162		163										
																		LIGHTING
								4						202	75301	4	EACH	PULL BOX REMOVED, AS PER PLAN
								18						202	75401	18	EACH	LIGHT POLE REMOVED, AS PER PLAN
								18						202	75501	18	EACH	LIGHT POLE FOUNDATION REMOVED, AS PER PLAN
								18						202	75507	18	EACH	LUMINAIRE REMOVED, AS PER PLAN
								2						202	75511	2	EACH	POWER SERVICE REMOVED, AS PER PLAN
								2						202	98100	2	EACH	REMOVAL, MISC.: TELEPHONE SERVICE REMOVED
				380										603	00400	380	LIN FT	4" CONDUIT, TYPE E
						2680								603	98300	2680	LIN FT	CONDUIT, MISC.: 4", 713.07, SCHEDULE 40 PVC
						14								625	01500	14	EACH	CABLE SPLICING KIT
						4								625	13200	4	EACH	LIGHT TOWER, BBBB100
						10								625	13400	10	EACH	LIGHT TOWER, BBBBBB100
						1								625	13404	1	EACH	LIGHT TOWER, BBBBBB110
						3								625	13406	3	EACH	LIGHT TOWER, BBBBBB120
						18								625	15200	18	EACH	LIGHT TOWER FOUNDATION, 36" X 25' DEEP
						12060								625	23200	12060	LIN FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE
						5980								625	24100	5980	LIN FT	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 5000 VOLT CABLES
						3970								625	25400	3970	LIN FT	CONDUIT, 2", 713.04
						5650								625	25500	5650	LIN FT	CONDUIT, 3", 713.04
						16								625	27000	16	EACH	LUMINAIRE, ASYMMETRIC, 400 WATT HIGH PRESSURE SODIUM, 713.21, 480 VOLT
						84								625	27200	84	EACH	LUMINAIRE, SYMMETRIC, 400 WATT HIGH PRESSURE SODIUM, 713.21, 480 VOLT
						5900								625	29002	5900	LIN FT	TRENCH, 24" DEEP
						6950								625	29010	6950	LIN FT	TRENCH, 30" DEEP
						1340								625	29201	1340	LIN FT	TRENCH, 48" DEEP, AS PER PLAN
						41								625	30706	41	EACH	PULL BOX, 713.08, 24"
						7								625	31600	7	EACH	PULL BOX, MISC.: 713.08, 48", AS PER PLAN
						36								625	32000	36	EACH	GROUND ROD
						2								625	34001	2	EACH	POWER SERVICE, AS PER PLAN
						1340								SPECIAL	62536000	1340	LIN FT	SPECIAL - PLASTIC CAUTION TAPE
						9		2						SPECIAL	62598000	11	EACH	LIGHTING, MISC.: DISCONNECT EXISTING CIRCUIT
						2								SPECIAL	62598000	2	EACH	LIGHTING, MISC.: TELEPHONE SERVICE

LIGHTING SUB-SUMMARY

CALC BY / DATE	PRE-70-2.41
CHKD BY / DATE	PREBLE COUNTY

OHIO | FHWA REGION 5 | 162 / 194

LOCATION	625																	603	SPECIAL			
	LIGHT TOWER BBBB100	LIGHT TOWER BBBBBB120	LIGHT TOWER BBBBBB110	LIGHT TOWER BBBBBB100	LIGHT TOWER FOUNDATION 36" X 25' DEEP	GROUND ROD	LUMINAIRE, ASYMMETRIC, 400 WATT HIGH PRESSURE SODIUM, 713.21, 480 VOLT	LUMINAIRE, SYMMETRIC, 400 WATT HIGH PRESSURE SODIUM, 713.21, 480 VOLT	TRENCH, 24" DEEP	TRENCH, 30" DEEP	CONDUIT 3", 713.04	CONDUIT 2", 713.04	PULL BOX, 713.08, 24"	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 5000 VOLT CABLES	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE	CABLE SPLICING KIT	TRENCH, 48" DEEP, AS PER PLAN	PULL BOX, MISC.: 713.08, 48", AS PER PLAN	POWER SERVICE, AS PER PLAN	CONDUIT, MISC.: 4", 713.07, SCHEDULE 40 PVC	SPECIAL - PLASTIC CAUTION TAPE	LIGHTING, MISC.: DISCONNECT EXISTING CIRCUIT	LIGHTING, MISC.: TELEPHONE SERVICE
	13200	13406	13404	13400	15200	32000	27000	27200	29002	29010	25500	25400	30706	24100	23200	01500	29201	31600	34001	98300	62536000	62598000	62598000
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	LIN FT	EACH	LIN FT	LIN FT	EACH	LIN FT	EACH	LIN FT	LIN FT	LIN FT	EACH	EACH
EASTBOUND REST AREA																							
POWER SERVICE, STA. 12+70 LINE B, 40' RT. / PULLBOX, STA. 20+80 LINE A, 30' RT.											830		4										
PULLBOX, STA. 22+85 LINE E, 230' LT. / TELEPHONE BOOTHS, STA. 18+35 LINE E, 20' LT.										340	680		4				830	4	1	1660	830	2	1
TELEPHONE BOOTHS, STA. 18+35 LINE E, 20' LT. / TELEPHONE BOOTHS, STA. 23+20 LINE E, 20' LT.										460	920		4									1	
CIRCUIT AC																							
PULLBOX PB-AC1, STA. 21+60 LINE A, 15' RT. / TOWER AC-7, STA. 151+40 I.R. 75, 165' RT.										190	190				400	2							
TOWER AC-7, STA. 151+40 I.R. 75, 165' RT. / PULLBOX PB-AA4, STA. 23+55 LINE E, 200' LT.				1	1	2		6														1	
TOWER AC-8, STA. 20+25 LINE F, 25' LT. / TOWER AC-8, STA. 20+25 LINE F, 25' LT.		1			1	2		6		500	250	250	1		1040								
TOWER AC-8, STA. 20+25 LINE F, 25' LT. / PULLBOX PB-AC9, STA. 14+00 LINE B, 10' RT.																							
PULLBOX PB-AC9, STA. 14+00 LINE B, 10' RT.										700	50	650	3		1480								
PULLBOX PB-AC9, STA. 14+00 LINE B, 10' RT. / TOWER AC-9, STA. 15+90 LINE A, 45' RT.													1			2							
TOWER AC-9, STA. 15+90 LINE A, 45' RT.										230	230				480								
PULLBOX PB-AC9, STA. 14+00 LINE B, 10' RT. / TOWER AC-10, STA. 136+90 I.R. 75, 150' RT.				1	1	2		6															
TOWER AC-10, STA. 136+90 I.R. 75, 150' RT.									550					560									
TOWER AC-10, STA. 136+90 I.R. 75, 150' RT. / TOWER AC-11, STA. 129+20 I.R. 75, 115' RT.				1	1	2		6															
TOWER AC-11, STA. 129+20 I.R. 75, 115' RT.	1				1	2	4		790					800									
CIRCUIT AA																							
PULLBOX PB-AA4, STA. 23+55 LINE E, 200' LT. / TOWER AA-10, STA. 26+50 LINE C, 50' LT.										330	120	210	1		700								
TOWER AA-10, STA. 26+50 LINE C, 50' LT.		1			1	2		6															
TOWER AA-10, STA. 26+50 LINE C, 50' LT. / TOWER AA-11, STA. 28+60 LINE A, 40' RT.										700		700	2		1720								
TOWER AA-11, STA. 28+60 LINE A, 40' RT.				1	1	2		6															
TOWER AA-11, STA. 28+60 LINE A, 40' RT. / TOWER AA-12, STA. 162+90 I.R. 75, 138' RT.									600	80	80		1	610	180	2							
TOWER AA-12, STA. 162+90 I.R. 75, 138' RT.				1	1	2		6															
TOWER AA-12, STA. 162+90 I.R. 75, 138' RT. / TOWER AA-13, STA. 171+55 I.R. 75, 118' RT.									880					890									
TOWER AA-13, STA. 171+55 I.R. 75, 118' RT.	1				1	2	4																
WESTBOUND REST AREA																							
POWER SERVICE, STA. 5+90 LINE S, 90' LT. / PULLBOX, STA. 11+30 LINE S, 60' LT.											510		3				510	3	1	1020	510	2	1
PULLBOX, STA. 16+70 LINE W, 190' RT. / TELEPHONE BOOTHS, STA. 19+00 LINE W, 20' RT.										250	410		3									2	
TELEPHONE BOOTHS, STA. 19+00 LINE W, 20' RT. / TELEPHONE BOOTHS, STA. 14+50 LINE W, 20' RT.										370	740		4										
CIRCUIT BB																							
PULLBOX PB-BB11, STA. 14+00 LINE S, 35' RT. / TOWER BB-11, STA. 154+55 I.R. 75, 180' LT.										160	160				340	2							
TOWER BB-11, STA. 154+55 I.R. 75, 180' LT.				1	1	2		6														1	
PULLBOX PB-BB3, STA. 17+10 LINE W, 195' LT. / TOWER BB-12, STA. 14+25 LINE W, 40' LT.										350	70	280	1		740								
TOWER BB-12, STA. 14+25 LINE W, 40' LT.			1		1	2		6															
TOWER BB-12, STA. 14+25 LINE W, 40' LT. / TOWER BB-13, STA. 8+50 LINE S, 40' LT.										600		600	2		1420								
TOWER BB-13, STA. 8+50 LINE S, 40' LT.				1	1	2		6															
TOWER BB-13, STA. 8+50 LINE S, 40' LT. / TOWER BB-14, STA. 140+85 I.R. 75, 145' LT.									780	70	70		1	790	160	2							
TOWER BB-14, STA. 140+85 I.R. 75, 145' LT.				1	1	2		6															
TOWER BB-14, STA. 140+85 I.R. 75, 145' LT. / TOWER BB-15, STA. 132+95 I.R. 75, 120' LT.									850					860									
TOWER BB-15, STA. 132+95 I.R. 75, 120' LT.	1				1	2	4																
CIRCUIT BC																							
PULLBOX PB-BB3, STA. 17+10 LINE W, 195' LT. / TOWER BC-7, STA. 19+60 LINE U, 35' LT.										420	200	220	1		880	2							
TOWER BC-7, STA. 19+60 LINE U, 35' LT.		1			1	2		6															
TOWER BC-7, STA. 19+60 LINE U, 35' LT. / PULLBOX PB-BC8, STA. 27+70 LINE V, 10' LT.										990	140	850	4		2080								
PULLBOX PB-BC8, STA. 27+70 LINE V, 10' LT.													1			2							
PULLBOX PB-BC8, STA. 27+70 LINE V, 10' LT. / TOWER BC-8, STA. 20+85 LINE S, 85' LT.										210		210			440								
TOWER BC8 , STA. 20+85 LINE S, 85' LT.				1	1	2		6															
PULLBOX PB-BC8, STA. 27+70 LINE V, 10' LT. / TOWER BC-9, STA. 167+30 I.R. 75, 158' LT.									590					600									
TOWER BC-9, STA. 167+30 I.R. 75, 158' LT.				1	1	2		6															
TOWER BC-9, STA. 167+30 I.R. 75, 158' LT. / TOWER BC-10, STA. 175+42 I.R. 75, 115' LT.									860					870									
TOWER BC-10, STA. 175+42 I.R. 75, 115' LT.	1				1	2	4																
TOTALS TO LIGHTING GENERAL SUMMARY	4	3	1	10	18	36	16	84	5900	6950	5650	3970	41	5980	12060	14	1340	7	2	2680	1340	9	2

CALC BY DATE	PRE-70-2.41 PREBLE COUNTY	OHIO
CHKD BY DATE		FHWA REGION 5

(163/194)

LIGHTING SUB-SUMMARY

LOCATION	202 LIGHT POLE REMOVED, AS PER PLAN	202 LIGHT POLE FOUNDATION REMOVED, AS PER PLAN	202 LUMINAIRE REMOVED, AS PER PLAN	202 PULLBOX REMOVED, AS PER PLAN	202 POWER SERVICE REMOVED, AS PER PLAN	202 //	SPEC. REMOVAL, MISC.: TELEPHONE SERVICE REMOVED	SPEC. LIGHTING, MISC.: DISCONNECT EXISTING CIRCUIT
	75401 EACH	75501 EACH	75507 EACH	75301 EACH	75511 EACH		20298100 EACH	62598000 EACH
EASTBOUND REST AREA								
CIRCUIT AA								
PULLBOX PB-AA7, STA. 28+15 LINE E, 180' LT.								1
PULLBOX PB-AA8, STA. 29+25 LINE E, 170' LT.				1				
PULLBOX PB-AA9, STA. 29+50 LINE E, 205' LT.				1				
LIGHT POLE AA-7, STA. 166+20 I.R. 75, 100' RT.	1	1	1					
LIGHT POLE AA-8, STA. 169+55 I.R. 75, 90' RT.	1	1						
LIGHT POLE AA-9, STA. 173+15 I.R. 75, 85' RT.	1	1	1					
CIRCUIT AC								
PULLBOX PB-AC2, STA. 21+50 LINE A, 10' LT.				1				
LIGHT POLE AC-4, STA. 137+05 I.R. 75, 90' RT.	1	1	1					
POWER POLE, STA. 14+10 LINE A, 35' LT.								
LIGHT POLE AC-5, STA. 143+80 I.R. 75, 110' RT.	1	1	1					
POWER POLE, STA. 17+50 LINE A, 15' LT.								
LIGHT POLE AC-6, STA. 146+20 I.R. 75, 140' RT.	1	1	1					
POWER SERVICE, STA. 20+70 LINE A, 20' RT.					1		1	
LIGHT POLE AC-1, STA. 21+85 LINE A, 35' LT.	1	1	1					
LIGHT POLE AC-2, STA. 23+45 LINE A, 35' LT.	1	1	1					
LIGHT POLE AC-3, STA. 25+10 LINE A, 35' LT.	1	1	1					
WESTBOUND REST AREA								
CIRCUIT BB								
LIGHT POLE BB-9, STA. 134+00 I.R. 75, 85' LT.	1	1	1					
LIGHT POLE BB-8, STA. 137+75 I.R. 75, 95' LT.	1	1	1					
LIGHT POLE BB-7, STA. 141+15 I.R. 75, 100' LT.	1	1	1					
POWER POLE, STA. 7+80 LINE T, 55' LT.								
POWER SERVICE, STA. 11+30 LINE S, 60' LT.					1		1	
CIRCUIT BC								
PULLBOX PB-BA1, STA. 16+38 LINE S, 92' LT.								1
PULLBOX PB-BC1, STA. 18+15 LINE S, 20' RT.				1				
LIGHT POLE BC-3, STA. 14+60 LINE S, 30' RT.	1	1	1					
LIGHT POLE BC-2, STA. 16+15 LINE S, 30' RT.	1	1	1					
LIGHT POLE BC-1, STA. 17+60 LINE S, 30' RT.	1	1	1					
LIGHT POLE BC-4, STA. 161+35 I.R. 75, 135' LT.	1	1	1					
LIGHT POLE BC-5, STA. 163+50 I.R. 75, 110' LT.	1	1	1					
LIGHT POLE BC-6, STA. 170+30 I.R. 75, 90' LT.	1	1	1					
TOTALS TO LIGHTING GENERAL SUMMARY	18	18	18	4	2		2	2

LIGHTING PLAN

CALC BY / DATE	PRE-70-2.41	OHIO	164
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	194

NORTH

LEGEND:

- PROPOSED 6-LUMINAIRE SYMMETRIC TOWER
- PROPOSED 4-LUMINAIRE ASYMMETRIC TOWER
- EXISTING LIGHTING
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING POWER POLE TO BE REMOVED
- PROPOSED PULLBOX
- PROPOSED TELEPHONE BOOTH
- —PE— PRIMARY ELECTRICAL AND TELEPHONE CIRCUITS IN A COMMON TRENCH.
- — E — PROPOSED ELECTRICAL CIRCUIT
- —EC— PROPOSED ELECTRICAL CIRCUIT IN CONDUIT
- —E&T— PROPOSED ELECTRICAL AND TELEPHONE CIRCUITS IN A COMMON TRENCH.

BB-12 STA-14+25, LINE W OFF-40.00' LT.

EXTEND CABLES FROM PULLBOX PB-BB3 TO TOWER BB-12 AND BC-7 WITH NO SPLICES.

BC-7 STA-19+60, LINE U OFF-35.00' LT.

EXTEND CABLES FROM TOWER BC-7 TO PULLBOX PB-BC8 WITH NO SPLICES.

BB-14 STA-140+85, I.R. 75 OFF-145.00' LT.

EXTEND CABLES FROM TOWER BB-12 TO TOWER BB-13 WITH NO SPLICES.

NEW SERVICE POLE WITH PULLBOXES.

BB-13 STA-8+50, LINE S OFF-40.00' LT.

BB-11 STA-154+55, I.R. 75 OFF-180.00' LT.

BC-8 STA-20+85, LINE S OFF-85.00' LT.

BC-9 STA-167+30, I.R. 75 OFF-158.00' LT.

BB-8 BB-7 BB-6 BB-5 BB-4 BB-3 BB-2 BB-1 BA-2 BA-1 BC-1 BC-2 BC-3 BC-4 BC-5

PB-BB3 PB-BA1 PB-BB11 PB-BC1 PB-BC8

TELEPHONE BOOTHS ELECTRIC PULLBOX

LINE "X" LINE "U" LINE "W" LINE "S" LINE "T" LINE "Y"

WESTBOUND LANES I-70

℄ OF I-70

EASTBOUND LANES I-70

MATCH LINE 136+00 ℄ I-70 SEE SHEET 165

MATCH LINE STA. 168+00 ℄ I-70 SEE SHEET 165

AC-4 AC-5 AC-6 AC-7 STA-151+40, I.R. 75 OFF-165.00' RT.

AC-1 AC-2 AC-3

AC-10 STA-136+90, I.R. 75 OFF-150.00' RT.

EXISTING POWER AND TELEPHONE POLES TO BE RELOCATED BY UTILITY COMPANIES.

NEW SERVICE POLE WITH PULLBOXES.

AC-9 STA-15+90, LINE A OFF-45.00' RT.

EXTEND CABLES FROM TOWER AC-8 TO PULLBOX PB-AC9 WITH NO SPLICES.

AC-8 STA-20+25, LINE F OFF-25.00' LT.

EXTEND CABLES FROM PULLBOX PB-AA1 TO TOWER AA-10 AND AC-8 WITH NO SPLICES.

AA-10 STA-26+50, LINE C OFF-50.00' LT.

AA-11 STA-28+60, LINE A OFF-40.00' RT.

EXTEND CABLES FROM TOWER AA-10 TO TOWER AA-11 WITH NO SPLICES.

AA-12 STA-162+90, I.R. 75 OFF-138.00' RT.

AA-7 AA-6 AA-5 AA-4 AA-3 AA-2 AA-1 AB-1

PB-AC9 PB-AC2 PB-AC1 PB-AA9 PB-AA7 PB-AA1

TELEPHONE BOOTHS

LINE "A" LINE "C" LINE "E" LINE "F"

R/W

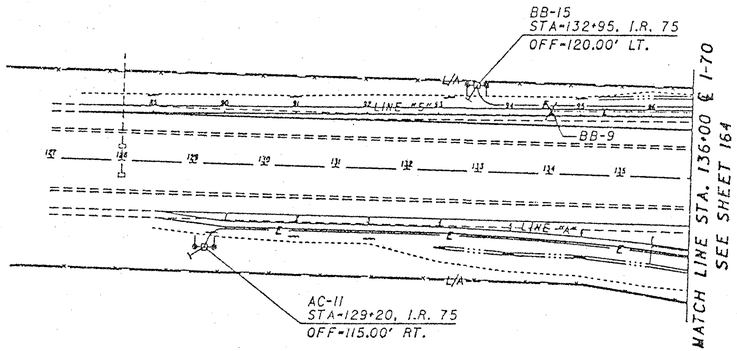
LEGEND (continued):

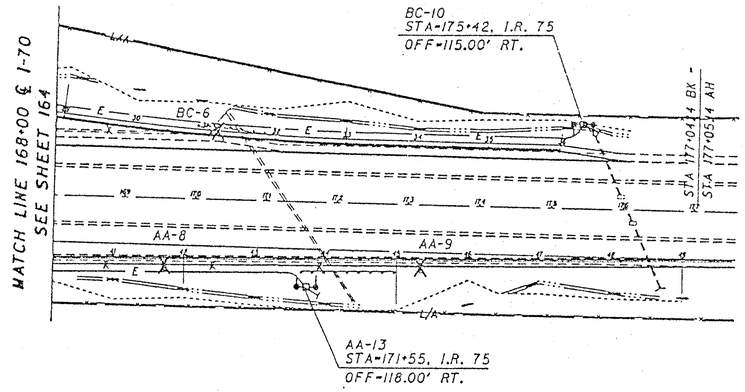
- — E — EXISTING ELECTRICAL CIRCUIT
- —EA— EXISTING ELECTRICAL CIRCUIT ABANDONED
- — X — EXISTING ELECTRICAL CIRCUIT TO BE ABANDONED
- — T — EXISTING TELEPHONE CIRCUIT
- —TA— EXISTING TELEPHONE CIRCUIT ABANDONED
- — S — EXISTING SANITATION LINE
- —SA— EXISTING SANITATION LINE ABANDONED
- — W — EXISTING WATER LINE
- —| CIRCUIT STUB AND CAP

CALC BY / DATE	PRE-70-2.41	OHIO	165
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	194

LIGHTING PLAN
& DETAIL SHEET

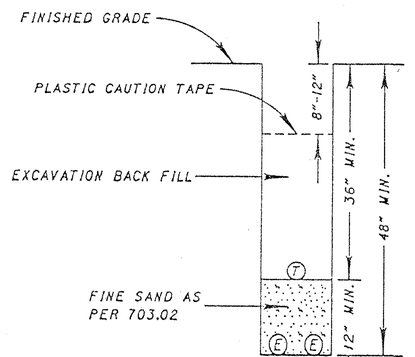
NORTH





LEGEND:

- PROPOSED 6-LUMINAIRE SYMMETRIC TOWER
- PROPOSED 4-LUMINAIRE ASYMMETRIC TOWER
- EXISTING LIGHTING
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING POWER POLE TO BE REMOVED
- PROPOSED PULLBOX
- PROPOSED TELEPHONE BOOTH
- ——PE—— PRIMARY ELECTRICAL AND TELEPHONE CIRCUITS IN A COMMON TRENCH.
- —— E —— PROPOSED ELECTRICAL CIRCUIT
- ——EC—— PROPOSED ELECTRICAL CIRCUIT IN CONDUIT
- ——E&T—— PROPOSED ELECTRICAL AND TELEPHONE CIRCUITS IN A COMMON TRENCH.
- — — E — — EXISTING ELECTRICAL CIRCUIT
- — —EA— — EXISTING ELECTRICAL CIRCUIT ABANDONED
- — — X — — EXISTING ELECTRICAL CIRCUIT TO BE ABANDONED
- — — T — — EXISTING TELEPHONE CIRCUIT
- — —TA— — EXISTING TELEPHONE CIRCUIT ABANDONED
- — — S — — EXISTING SANITATION LINE
- — —SA— — EXISTING SANITATION LINE ABANDONED
- — — W — — EXISTING WATER LINE
- ——| CIRCUIT STUB AND CAP



TRENCH DETAIL FOR PRIMARY ELECTRICAL AND TELEPHONE IN A COMMON TRENCH

CALC BY DATE	PRE-70-2.41	OHIO	166
CHKD BY DATE	PREBLE COUNTY	FHWA REGION 5	194

TRAFFIC CONTROL GENERAL SUMMARY

SHEET NUMBER												PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
						167		168		169									
																			TRAFFIC CONTROL
										40					620	10300	40	EACH	DELINEATOR, TYPE C, POST MOUNTED
										15					620	15300	15	EACH	DELINEATOR, TYPE D, POST MOUNTED
								2.4							630	00000	2.4	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
						340		208							630	03100	548	LIN FT	GROUND MOUNTED SUPPORT, NO. 3 POST
						259		44							630	04100	303	LIN FT	GROUND MOUNTED SUPPORT, NO. 4 POST
								66							630	06400	66	LIN FT	GROUND MOUNTED SUPPORT, S4X7.7 BEAM
								68							630	06500	68	LIN FT	GROUND MOUNTED SUPPORT, W6X9 BEAM
								8							630	09000	8	EACH	BREAKAWAY BEAM CONNECTION
						240		15.4							630	80102	285.4	SQ FT	SIGN, FLAT SHEET, TYPE G
								2							630	82500	2	EACH	EXISTING SIGN REVISED WITH DEMOUNTABLE COPY
								3							630	85100	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
								2							630	85600	2	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION
								2							630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
								8							630	86204	8	EACH	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND STORAGE
										2.3					642	00090	2.3	MILE	EDGE LINE
										0.1					642	00190	0.1	MILE	LANE LINE
										1410					642	00390	1410	LIN FT	CHANNELIZING LINE
										548					642	00690	548	LIN FT	TRANSVERSE LINE
										11639					642	01190	11639	LIN FT	PARKING LOT STALL MARKING
						5									802	00100	5	EACH	BARRIER REFLECTORS, TYPE A

TRAFFIC CONTROL SUB-SUMMARY

CALC BY ____ DATE ____
CHKD BY ____ DATE ____
PRE-70-2.41
PREBLE COUNTY
OHIO
FHWA REGION 5
167
194

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET, TYPE G	630 EXISTING SIGN REVISED WITH DEMOUNTABLE COPY	630 GROUND MOUNTED, SUPPORT, NO. 3 POST	630 GROUND MOUNTED, SUPPORT, NO. 4 POST	630 GROUND MOUNTED, SUPPORT, S4X7.7 BEAM	630 GROUND MOUNTED, SUPPORT, W6X9 BEAM	630 BREAKAWAY BEAM CONNECTION	630 CONCRETE FOR ANCHOR BASE FOUNDATION	630 REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND STORAGE	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	802 BARRIER REFLECTOR, TYPE A
							80102	82500	03100	04100	06400	06500	09000	00000	86204	86002	85600	85100	00100
							SQ FT	EACH	LIN FT	LIN FT	LIN FT	LIN FT	EACH	CU YD	EACH	EACH	EACH	EACH	EACH
		EASTBOUND																	
170		RAMP A	10+50	LT.	R-41A-36	36X24	6.0			13									
170			10+50	RT.	R-41A-36	36X24	6.0			13									
170			12+20	LT.	R-A-36	36X36	9.0			13									
170			20+50	LT.	R-41B-36	36X36	9.0			13									
170			20+50	RT.	R-41B-36	36X36	9.0			13									
174			29+40	RT.	W-49R-36	36X36	9.0			14									
170		RAMP B	12+20	RT.	R-A-36	36X36	9.0			16.5/16.5									
					R-B-36	36X36	9.0												
171			16+20	LT.	R-41B-36	36X36	9.0			13									
171			16+20	RT.	R-41B-36	36X36	9.0			13									
171		BASELINE C	28+80	RT.	R-2-48	48X48X48	6.9		13 / 13										
171			29+45	LT.	R-44R-24	24X30	5.0		13										
171		RAMP D	31+75	RT.	R-2-48	48X48X48	6.9		13 / 13										
174			35+50	RT.	R-2-48	48X48X48	6.9		13 / 13										
171			32+45	RT.	R-44L-24	24X30	5.0		13										
171		BASELINE E	28+40	RT.	W-49R-36	36X36	9.0			14									
171			19+00	LT.	R-55-12	12X18	1.5		12										
171			20+45	LT.	R-55-12	12X18	1.5		12										
171			22+00	LT.	R-55-12	12X18	1.5		12										
171			23+31	LT.	R-55-12	12X18	1.5		12										
171			24+50	LT.	R-55-12	12X18	1.5		12										
171			29+35	LT.	R-44R-24	24X30	5.0		13										
171		BASELINE F	31+30	RT.	W-49L-36	36X36	9.0			14									
171			31+85	RT.	R-44L-24	24X30	5.0		13										
171			18+80	RT.	R-55-12	12X18	1.5		12										
171			20+00	RT.	R-55-12	12X18	1.5		12										
171			21+35	RT.	R-55-12	12X18	1.5		12										
171			23+00	RT.	R-55-12	12X18	1.5		12										
171			25+00	RT.	R-55-12	12X18	1.5		12										
171			27+00	RT.	R-55-12	12X18	1.5		12										
170		BASELINE A	10+52.05 TO 10+82.96	RT.															2
171		BASELINE A	25+57.09 TO 27+33.26	RT.															3
		WESTBOUND																	
174		RAMP S	31+70	LT.	R-41A-36	36X24	6.0			13									
174			26+50	RT.	R-41A-36	36X24	6.0			13									
174			24+75	LT.	R-A-36	36X36	9.0			13									
172			7+80	LT.	W-49R-36	36X36	9.0			14									
172			18+20	LT.	R-41B-36	36X36	9.0			13									
172			18+20	RT.	R-41B-36	36X36	9.0			13									
172		RAMP T	11+00	LT.	W-49R-36	36X36	9.0			14									
172			10+50	LT.	R-44R-24	24X30	5.0		13										
172			7+50	LT.	R-2-48	48X48X48	6.9		13 / 13										
172		BASELINE U	12+55	LT.	R-2-48	48X48X48	6.9		13 / 13										
172			12+00	LT.	R-44R-24	24X30	5.0		13										
TOTALS TO TRAFFIC CONTROL GENERAL SUMMARY							240		340	259									5

TRAFFIC CONTROL SUB-SUMMARY

CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PRE-70-2.41
PREBLE COUNTY

OHIO
FHWA REGION 5

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET, TYPE G	EXISTING SIGN REVISED WITH DEMOUNTABLE COPY	GROUND MOUNTED, SUPPORT, NO. 3 POST	GROUND MOUNTED, SUPPORT, NO. 4 POST	GROUND MOUNTED, SUPPORT, S4X7.7 BEAM	GROUND MOUNTED, SUPPORT, W6X9 BEAM	BREAKAWAY BEAM CONNECTION	CONCRETE FOR ANCHOR BASE FOUNDATION	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND STORAGE	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
							80102	82500	03100	04100	06400	06500	09000	00000	86204	86002	85500	85100
							SQ FT	EACH	LIN FT	LIN FT	LIN FT	LIN FT	EACH	CU YD	EACH	EACH	EACH	EACH
		WESTBOUND, CONT'D																
174		RAMP Y	29+90	RT.	R-A-36	36X36	9.0			16.5/16.5								
					R-B-36	36X36	9.0											
172			23+50	LT.	R-41B-36	36X36	9.0			13								
172			23+50	RT.	R-41B-36	36X36	9.0			13								
172		BASELINE W	12+55	RT.	R-55-12	12X18	1.5		12									
172			13+80	RT.	R-55-12	12X18	1.5		12									
172			15+00	RT.	R-55-12	12X18	1.5		12									
172			16+32	RT.	R-55-12	12X18	1.5		12									
172			17+57	RT.	R-55-12	12X18	1.5		12									
172			19+07	RT.	R-55-12	12X18	1.5		12									
172		BASELINE X	12+55	RT.	W-49L-36	36X36	9.0			14								
172			12+00	RT.	R-44L-24	24X30	5.0		13									
172			14+00	LT.	R-55-12	12X18	1.5		12									
172			15+50	LT.	R-55-12	12X18	1.5		12									
172			17+00	LT.	R-55-12	12X18	1.5		12									
172			18+50	LT.	R-55-12	12X18	1.5		12									
172			20+00	LT.	R-55-12	12X18	1.5		12									
172			21+50	LT.	R-55-12	12X18	1.5		12									
172			23+00	LT.	R-55-12	12X18	1.5		12									
172		BASELINE Y	10+35	LT.	R-44L-24	24X30	5.0		13									
172			11+00	LT.	R-2-48	48X48X48	6.9		13 / 13									
170		MAINLINE - I-70	96+50	RT.				1										
170			135+65	RT.								17 / 17	2	.66	2		1	
173			144+25	RT.							16.5/16.5		2	.54	2			1
172			147+50	LT.						15 / 15						2		1
174			162+65	LT.							16.5/16.5		2	.54	2			1
173			171+70	LT.								17 / 17	2	.66	2		1	
170			215+75	LT.				1										
TOTALS TO TRAFFIC CONTROL GENERAL SUMMARY							45.4	2	208	44	66	68	8	2.4	8	2	2	3

TRAFFIC CONTROL SUB-SUMMARY

CALC BY / DATE	PRE-70-2.41	OHIO	169
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	194

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	INTERVAL	620 DELINEATOR, TYPE C POST MOUNTED 10300 EACH	620 DELINEATOR, TYPE D POST MOUNTED 15300 EACH	642 PARKING LOT STALL MARKING LIN FT	642 EDGE LINES, WHITE LIN FT	642 EDGE LINES, YELLOW LIN FT	642 CHANNELIZING LINES LIN FT	642 TRANSVERSE LINES, WHITE LIN FT	642 LANE LINE LIN FT
		EASTBOUND												
170		RAMP A	1+00	9+00	RT.	200	5							
170			9+00	13+00	LT.	200		3						
170,171			13+50	19+50	RT.	200	4							
170			0+00	9+05.35	RT.					905.35				
170			2+70	5+33	LT.									263
170			5+33	8+05	LT.								259	
170			5+33	8+05	LT.							544		
170			8+05	13+04	LT.						499			
174			37+90.62	39+27	LT.							136.38		
174			29+96.80	37+90.62	LT.						793.82			
174			32+28.62	49+70.66	RT.					1742.04				
170		RAMP B	9+05.35	13+01.77	RT.					396.42				
170,171			13+50	15+50	LT.	200		2						
171		RAMP C	26+25	27+00	RT.	75	2							
171			27+50	29+00	RT.	50	4							
171			17+09	19+52	LT.				904					
171			17+31	19+79	RT.				904					
171			19+76	22+83	LT.				904					
171			19+98	22+12	RT.				904					
171			23+94	26+37	LT.				904					
171			23+11	26+55	RT.				1469					
171		RAMP D	30+50		RT.		1							
171			30+50	31+50	LT.	100		2						
174			35+75		LT.			1						
174			35+81.13	38+10.33	RT.					229.20				
171		RAMP E	26+50	28+50	RT.	200	2							
171			29+00	31+00	LT.	200		2						
171		RAMP F	29+00	31+50	RT.	50	6							
170,173		MAINLINE - I-70	136+53	145+03.86	RT.					850.86				
174			159+50.04	167+10	RT.					759.96				
		WESTBOUND												
173,174		RAMP S	28+00	36+00	LT.	200	5							
174			24+00	28+00	RT.	200		3						
172,174			19+45	23+45	LT.	200	3							
172			7+50	13+50	LT.	200	4							
170,172			0+00	7+18.41	LT.					718.41				
170,172			0+00	8+10	RT.						810			
174			24+06.89	28+90.69	RT.						483.8			
173,174			27+90.29	36+94.93	LT.					904.64				
174			28+90.69	31+83	RT.								289	
174			28+90.69	31+83	RT.							584.62		
173,174			31+83	34+45	RT.									262
170			87+99.74	100+00	LT.					1200.26				
170			98+55	100+00	RT.							145		
172		RAMP T	7+50	9+50	RT.	200	2							

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	INTERVAL	620 DELINEATOR, TYPE C POST MOUNTED 10300 EACH	620 DELINEATOR, TYPE D POST MOUNTED 15300 EACH	642 PARKING LOT STALL MARKING LIN FT	642 EDGE LINES, WHITE LIN FT	642 EDGE LINES, YELLOW LIN FT	642 CHANNELIZING LINES LIN FT	642 TRANSVERSE LINES, WHITE LIN FT	642 LANE LINE LIN FT
		WESTBOUND, CONT'D												
172		RAMP U	20+11	22+25	LT.				904					
172			16+93	19+14	LT.				1469					
172			13+55	15+01	LT.				452					
172			19+30	22+54	RT.				1017					
172			15+22	18+30	RT.				904					
172			11+68	14+12	RT.				904					
172,174		RAMP V	24+75	26+75	LT.	200	2							
174			26+75	28+75	RT.	200		2						
174			29+25.21	33+08.88	LT.					383.67				
170,173		MAINLINE - I-70	138+00	147+67.35	LT.					967.35				
173,174			162+14.68	168+00	LT.					585.32				
										9543.48	2586.62			525
									SUB-TOTAL LIN. FT.	12230.1				525
									TOTAL MILE	2.3				.1
TOTALS TO TRAFFIC CONTROL GENERAL SUMMARY							40	15	11539	2.3		1410	548	.1

CALC BY DATE	PRE-70-2.41	OHIO	170
CHKD BY DATE	PREBLE COUNTY	FHWA REGION 5	19-1

TRAFFIC CONTROL SYMBOLS :

	PROPOSED	EXISTING	EXISTING TO BE REMOVED
SIGNS	◇	◇	⊗
GROUND MOUNTED SUPPORTS	⊥ ⊥	⊥ ⊥	
SIGNAL HEAD	←	→	
CONDUIT	2"C	3"C	
PULL BOX	PB	PB	
CONTROLLER BOX	⊠	⊠	
SERVICE POLE	●	○	
LOOP DETECTORS	E-3	E-1	
PAVEMENT MARKINGS	———	———	

PAVEMENT MARKING LEGEND:

- (A) EDGE LINES, WHITE
- (B) EDGE LINES, YELLOW
- (C) LANE LINE, 4"
- (I) CHANNELIZING LINE, 8"
- (M) TRANSVERSE LINES, WHITE
- (S) PARKING LOT STALL MARKING
- △ DELINEATOR, TYPE C, POST MOUNTED
- ▲ DELINEATOR, TYPE D, POST MOUNTED

NORTH

EX LA/RW

WESTBOUND LANES I-70

EASTBOUND LANES I-70

℄ OF I-70

BEGIN (A) STA. 138+00

END (I) STA. 8+05

BEGIN (B) STA. 0+00

LA/RW

RAMP A

RAMP B

REST AREA
TOURIST INFO CENTER
1 MILE
PHONE
GSF-1
STA. 96+50
RAT-1

3/4 MILE
REPLACE WITH DEMOUNTABLE COPY

REST AREA
REMOVE AND REERECT AT STA. 128+49
STA. 135+65
11' X 5'

REST AREA
REMOVED AND REERECTED FROM STA. 144+25
STA. 137+00
RA-4-72
6' X 5'6"

WRONG WAY
R-41A-36
STA. 10+50

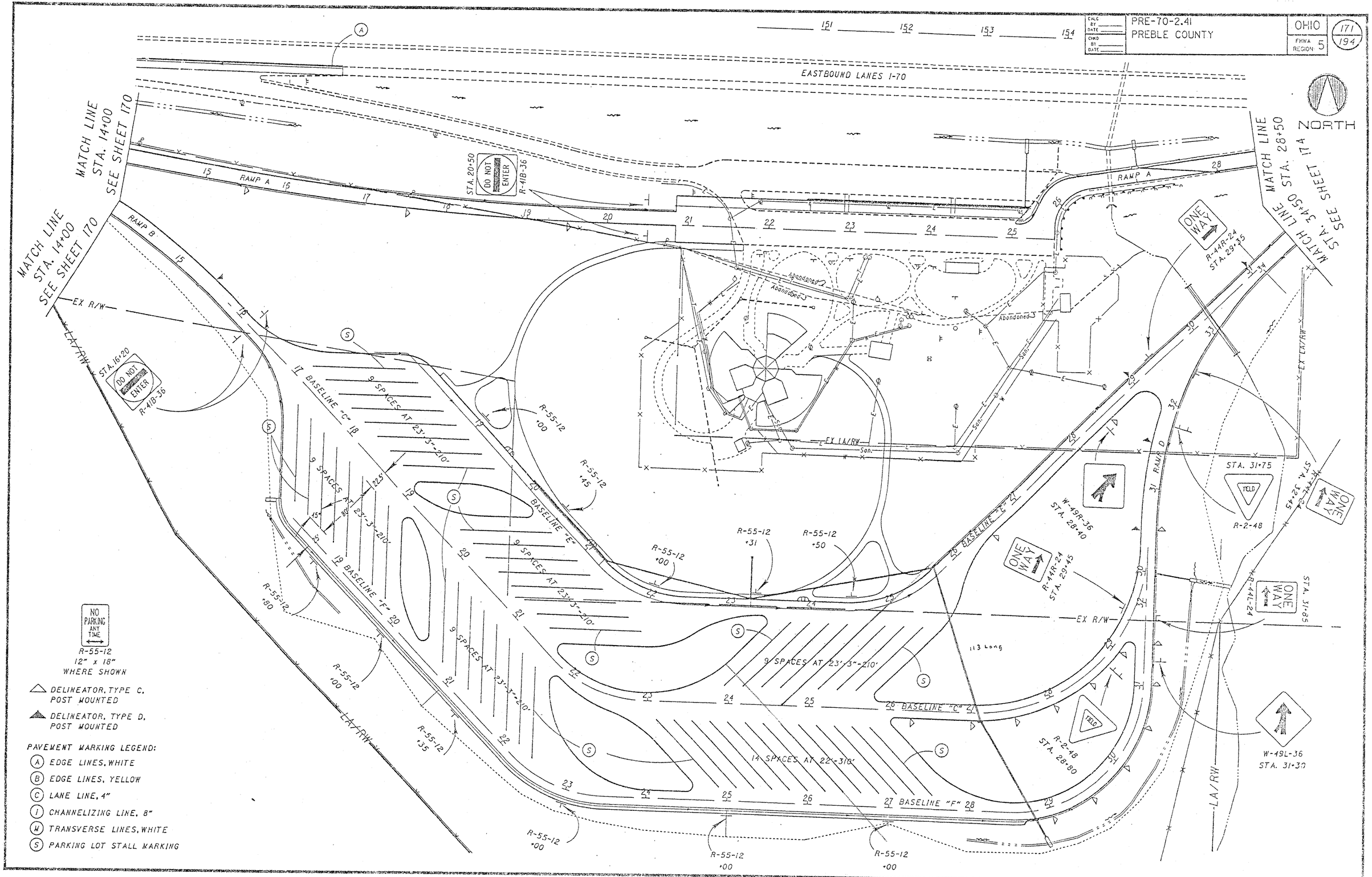
TRUCKS BUSES AND RVS
R-8-36
STA. 12+20

ALL CARS
R-4-36

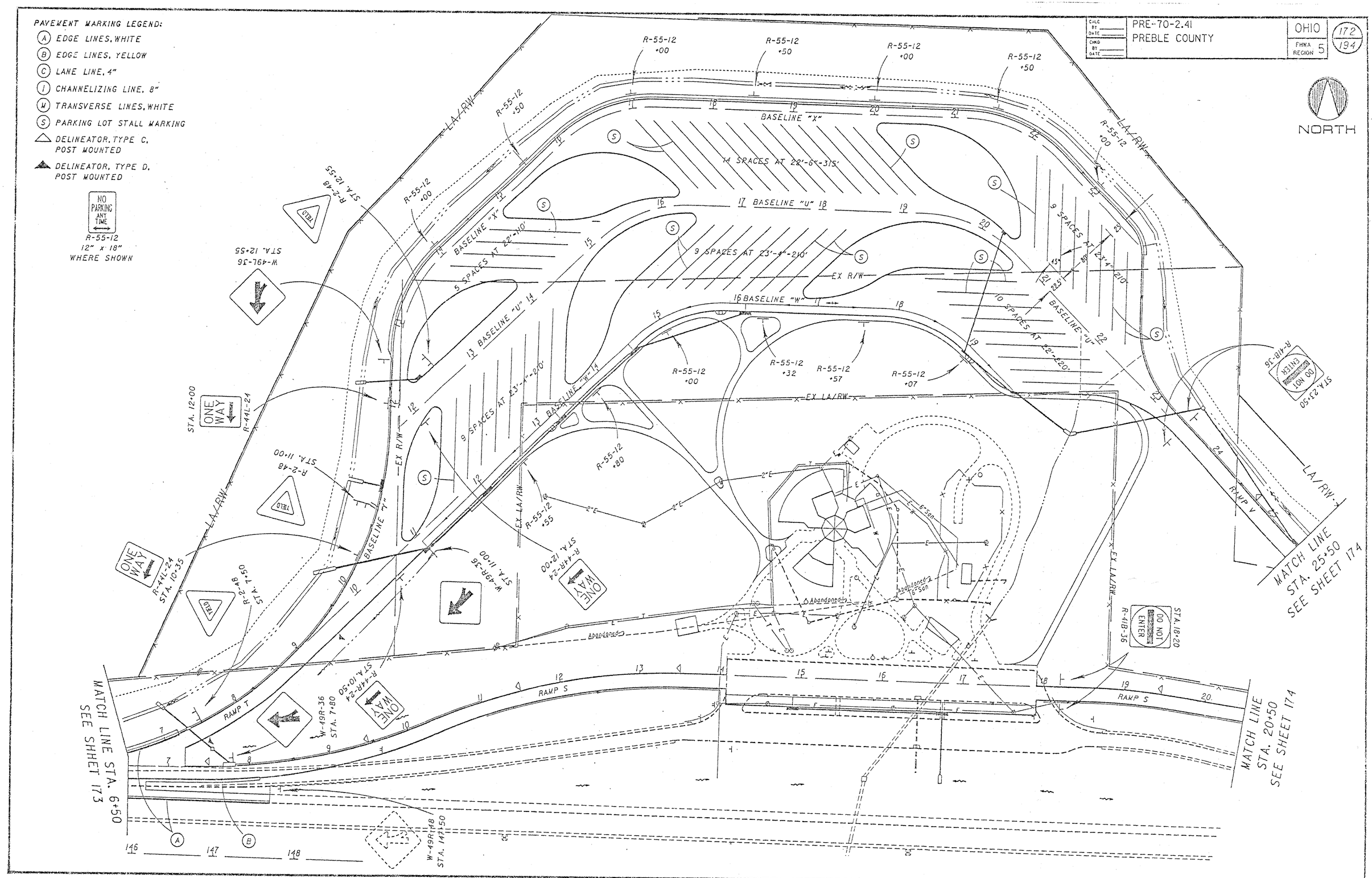
MATCH LINE STA. 142+50 ℄ I-70
SEE SHEET 173

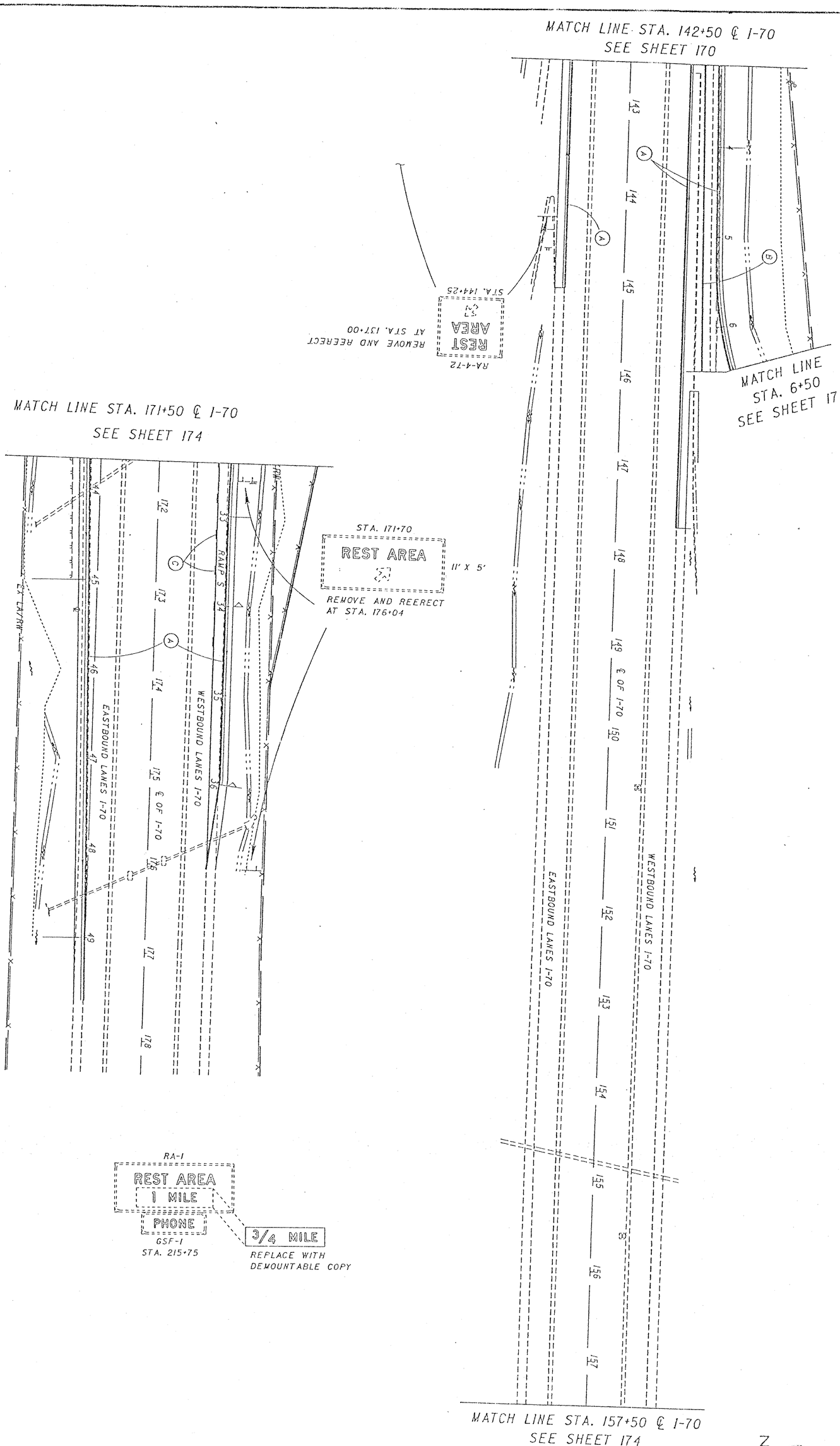
MATCH LINE
STA. 14+00
SEE SHEET 171

MATCH LINE
STA. 14+00
SEE SHEET 171

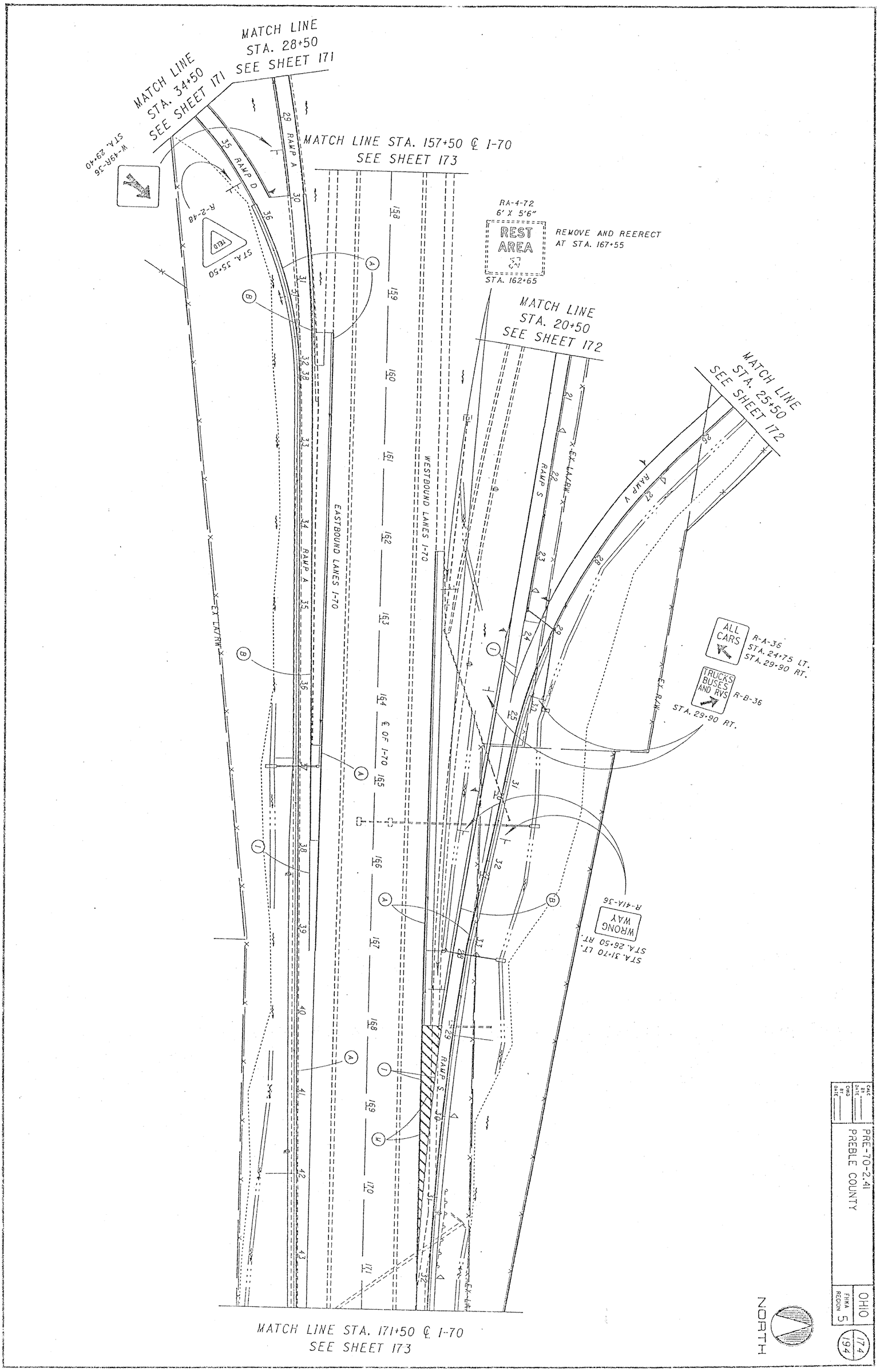


PRE-70-2.41
PREBLE COUNTY
OHIO
FHWA REGION 5
171
194
NORTH
EASTBOUND LANES I-70
MATCH LINE STA. 14+00 SEE SHEET 170
MATCH LINE STA. 28+50 STA. 34+50 SEE SHEET 174
RAMP A
RAMP B
RAMP D
EX R/W
LA/RW
EX LA/RW
STA. 20+50 DO NOT ENTER R-41B-36
STA. 16+20 DO NOT ENTER R-41B-36
ONE WAY R-44R-24 STA. 29+35
ONE WAY R-44R-24 STA. 29+45
ONE WAY R-44L-24 STA. 32+45
ONE WAY R-44L-24 STA. 31+85
W-49R-36 STA. 28+40
W-49L-36 STA. 31+30
R-2-48 STA. 28+80
R-2-48 STA. 31+75
YIELD
BASELINE "C"
BASELINE "E"
BASELINE "F"
9 SPACES AT 23'-3"-210'
14 SPACES AT 22'-310'
R-55-12 +00
R-55-12 +45
R-55-12 +31
R-55-12 +50
R-55-12 +80
R-55-12 +35
113 Long
NO PARKING ANY TIME
R-55-12
12" x 18"
WHERE SHOWN
DELINEATOR, TYPE C, POST MOUNTED
DELINEATOR, TYPE D, POST MOUNTED
PAVEMENT MARKING LEGEND:
A EDGE LINES, WHITE
B EDGE LINES, YELLOW
C LANE LINE, 4"
I CHANNELIZING LINE, 8"
M TRANSVERSE LINES, WHITE
S PARKING LOT STALL MARKING


PAVEMENT MARKING LEGEND:
(A) EDGE LINES, WHITE
(B) EDGE LINES, YELLOW
(C) LANE LINE, 4"
(I) CHANNELIZING LINE, 8"
(M) TRANSVERSE LINES, WHITE
(S) PARKING LOT STALL MARKING
DELINEATOR, TYPE C, POST MOUNTED
DELINEATOR, TYPE D, POST MOUNTED
NO PARKING ANY TIME
R-55-12
12" x 18"
WHERE SHOWN
PRE-70-2.41
PREBLE COUNTY
OHIO
FHWA REGION 5
172
194
NORTH
BASELINE "X"
BASELINE "U"
BASELINE "W"
BASELINE "Y"
14 SPACES AT 22'-6"=315'
9 SPACES AT 23'-4"=210'
5 SPACES AT 22'=110'
10 SPACES AT 22'=220'
EX R/W
EX LA/RW
LA/RW
RAMP S
RAMP T
RAMP V
ONE WAY
DO NOT ENTER
MATCH LINE STA. 6+50 SEE SHHET 173
MATCH LINE STA. 20+50 SEE SHEET 174
MATCH LINE STA. 25+50 SEE SHEET 174
STA. 12+00
STA. 12+55
STA. 10+35
STA. 7+80
STA. 18+20
STA. 23+50
STA. 14+50
R-55-12 +00
R-55-12 +50
R-55-12 +32
R-55-12 +57
R-55-12 +07
R-55-12 +80
R-55-12 +55
R-2-48
R-44L-24
R-44R-24
R-41B-36
W-49R-36
W-49R-48
Abandoned
6" San



PRE-TO-2.41
PREBLE COUNTY
OHIO
FHWA REGION 5
173
94


MATCH LINE
STA. 28+50
SEE SHEET 171
MATCH LINE
STA. 34+50
SEE SHEET 171
W-49R-36
STA. 29+40
MATCH LINE STA. 157+50 ℄ I-70
SEE SHEET 173
RAMP A
RAMP D
R-2-48
YIELD
STA. 35+50
RA-4-72
6' X 5'6"
REST AREA
STA. 162+65
REMOVE AND REERECT
AT STA. 167+55
MATCH LINE
STA. 20+50
SEE SHEET 172
MATCH LINE
STA. 25+50
SEE SHEET 172
RAMP S
RAMP V
EX LA/RW
EASTBOUND LANES I-70
WESTBOUND LANES I-70
℄ OF I-70
ALL CARS
R-A-36
STA. 24+75 LT.
STA. 29+90 RT.
TRUCKS BUSES AND RVS
R-B-36
STA. 29+90 RT.
EX R/W
WRONG WAY
R-41A-36
STA. 26+50 RT.
STA. 31+70 LT.
MATCH LINE STA. 171+50 ℄ I-70
SEE SHEET 173
NORTH
PRE-70-2.41
PREBLE COUNTY
OHIO
FHWA REGION 5
174
194

CALC BY / DATE	PRE-70-2.41	OHIO	175 / 194
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	
	SAFETY REST AREA		

GENERAL NOTES

SPECIFICATIONS FOR WILDFLOWER SEEDING AND MULCHING

ITEM SPECIAL - WILDFLOWER SEEDING AND MULCHING

PART 1 DESCRIPTION
PART 2 MATERIAL
PART 3 SEED BED PREPARATION
PART 4 SEEDING AND MULCHING
PART 5 METHOD OF MEASUREMENT
PART 6 BASIS FOR PAYMENT

PART 1 DESCRIPTION
THIS ITEM SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, MACHINERY, MATERIALS AND PROCESSES REQUIRED FOR THE PLANTING OF WILDFLOWER SEED AS SPECIFIED HEREIN AND AS SHOWN ON THE PLANS.

PART 2 MATERIALS
ALL SEED SHALL MEET THE REQUIREMENTS OF A CERTIFIED SEED TEST LABORATORY, INCLUDING THE TESTING AND LABELING OF THE BULK SEED.

SEED SHALL BE THE PREVIOUS SEASON CROP AND THE ANALYSIS SHOWN ON THE SEED CONTAINER SHALL BE DATED WITHIN SEVEN MONTHS PRIOR TO THE PLANTING DATE.

EACH SEED SPECIES SHALL BE SHIPPED IN INDIVIDUAL SEED CONTAINERS. SEED CONTAINERS SHALL BE CLEARLY LABELED AND SHALL BE FREE OF NOXIOUS WEEDS AND AT LEAST 90% SPECIFIED WILD FLOWER VARIETIES. THE SEED TAGS ON EACH CONTAINER SHALL INDICATE THE BOTANICAL NAME, COMMON NAME, PURITY, GERMINATION PERIOD, AND SHALL VERIFY THAT THE ENCLOSED SEED MEETS ALL REQUIREMENTS OF A CERTIFIED SEED TESTING LABORATORY AS WELL AS THE OHIO DEPARTMENT OF TRANSPORTATION.

AFTER ALL SEED HAS BEEN TESTED, THE CERTIFIED RESULTS SHALL BE GIVEN TO THE ENGINEER PRIOR TO PLANTING.

THE SEED MIXTURE, INDIVIDUAL RATES OF PLANTING AND THE MINIMUM ACCEPTABLE RATE OF GERMINATION FOR EACH SEED SPECIES (AS TESTED BY A CERTIFIED SEED TESTING LABORATORY) WILL BE INCLUDED IN THE PLANS.

THE MULCHING MATERIALS SHALL BE A WOOD CELLULOSE MULCH IN ACCORDANCE WITH SUPPLEMENT SPECIFICATION 943.

PART 3 SEED BED PREPARATION
ALL AREAS TO BE SEEDED ON NEW CONSTRUCTION PROJECTS SHALL BE FREE OF FOREIGN MATERIALS AND ROCK 3" OR GREATER IN ANY DIMENSION SHALL BE SATISFACTORILY SHAPED AND FINISHED AS PROVIDED IN 203.

AREAS OF EXISTING GRASS COVERED SITES TO BE SEEDED WITH WILDFLOWERS SH ALL FIRST BE MOWED TO A HEIGHT OF 1". ALL GRASS CUTTING SHALL THEN BE REMOVED PRIOR TO TREATING THE AREAS WITH AN ALL-PURPOSE POST EMERGENCY HERBICIDE APPLIED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. THE HERBICIDE SHALL BE LEFT UNDISTURBED ON THE VEGETATION FOR A PERIOD OF 10 DAYS, AFTER WHICH ALL DEAD PLANT MATERIALS SHALL BE REMOVED.

AREAS TO BE SEEDED SHALL HAVE A SMOOTH SURFACE, EQUIVALENT TO THAT PRODUCED BY HAND RAKING. PAYMENT FOR THE WORK NECESSARY FOR PROPER PREPARATION OF THE SEED BED WILL BE INCLUDED IN THE UNIT PRICE FOR 203.

PART 4 WILDFLOWER SEEDING AND MULCHING
THE WILDFLOWER SEED SHALL BE UNIFORMLY AND EVENLY DISTRIBUTED OVER THE AREAS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE AMOUNT AND TYPE SEED PLANTED PER ACRE SHALL CONFORM TO THE RATES INDICATED IN A SEED MIXTURE NOTE ON THE PLANS.

WILDFLOWER SEEDING SHALL BE DONE IN THE PERIOD AFTER MARCH 1 AND BEFORE APRIL 30 OR IN THE PERIOD AFTER SEPTEMBER 1 AND BEFORE NOVEMBER 30. THE OPERATION OF PLANTTHE SEED SHALL NOT BE ATTEMPTED WHEN THE GROUND IS FROZEN OR MUDDY, OR WHEN THE SOIL OR WEATHER CONDITIONS WOULD PREVENT THE PROPER SOIL PREPARATION AND SUBSEQUENT OPERATIONS AS SPECIFIED.

THE WILDFLOWER SEED SHALL BE PLANTED BY EITHER A BROADCAST METHOD OR BY A DRILL TYPE SEEDER SPECIFICALLY CALIBRATED FOR EACH SEED TYPE. IF THE DRILL TYPE SEEDER IS USED, SEED TYPES MUST NOT BE MIXED WITH OTHER TYPES. HOWEVER, SEEDS OF LIKE SIZE AND SHAPE MAY BE MIXED FOR THE PLANTING OPERATION WITH THE APPROVAL OF THE ENGINEER.

THE METHOD OF PLANTING USED SHALL INSURE THAT THE SEED WILL MAKE DIRECT POSITIVE CONTACT WITH THE SOIL BUT NOT BE PLANTED DEEPER THAN THE DEPTH RECOMMENDED FOR THE SEED SIZE OF THE PARTICULAR SPECIES BEING PLANTED. THE METHOD OF INSTALLATION SHALL BE CAPABLE OF PLANTING THE SEED IN ALL AREAS SHOWN ON THE PLANS.

WITHIN 48 HOURS AFTER ANY GIVEN AREA IS SEEDED, WOOD CELLULOSE MULCHING MATERIAL SHALL BE PLACED EVENLY OVER THE ENTIRE SEED BED. THE WOOD CELLULOSE MULCH AND ITS RATE OF APPLICATION SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 943.

THE CONTRACTOR SHALL MAINTAIN ALL SEEDED AND MULCHED AREAS UNTIL THE FINAL INSPECTION. MAINTENANCE SHALL INCLUDE REPAIRING ANY AREAS DAMAGED FOLLOWING THE WILDFLOWER SEEDING AND MULCHING OPERATION DUE TO WIND, WATER, FIRE OR OTHER CAUSES. DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITION AND GRADING OF THE AREA PRIOR TO SEEDING AND SHALL THEN BE RESEEDED AND REMULCHED, TO THE SATISFACTION OF THE ENGINEER.

PART 5 METHOD OF MEASUREMENT
MEASUREMENT OF WILDFLOWER SEEDING AND MULCHING WILL BE THE ACTUAL NUMBER OF ACRES SEEDED, MULCHED, COMPLETED AND ACCEPTED.

PART 6 BASIS OF PAYMENT
PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT PRICE FOR:

ITEM	UNIT	DESCRIPTION
SPECIAL	ACRE	WILDFLOWER SEEDING AND MULCHING

WATERING 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:

ITEM 659 WATER 428 M.-GAL.

TREE PROTECTION
NO WORK WILL BE PERMITTED WHERE TREES, SHRUBS OR UTILITIES ARE PRESENT WITHIN THE WORK LIMITS OF THE REST AREA PROJECT PRIOR TO STAKING BY THE GENERAL CONTRACTOR OR THE LIMITS OF ALL REST AREA BUILDINGS, SERVICE DRIVES, SIDEWALKS, GRADING WORK AND EXISTING AND PROPOSED UTILITY LINES.

THE METHOD FOR MARKING TREES AND SHRUBS TO BE SALVAGED, PROTECTED OR REMOVED WILL BE ESTABLISHED BY THE ENGINEER, DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURALIST AND THE GENERAL CONTRACTOR PRIOR TO WORK AROUND ANY EXISTING TREES, SHRUBS AND UTILITY LINES.

TREE AND ROOT SYSTEM PROTECTION USING SNOW FENCE SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS INDICATED ON THE PLAN AND AS DIRECTED BY THE ENGINEER. TREE ROOT AREAS EQUAL TO 24" OUTSIDE THE BRANCH SPREAD SHALL BE PROTECTED AS PER STANDARD DRAWING LA-1.

ONLY PNEUMATIC TIRED EQUIPMENT SHALL BE USED WITHIN THE REST AREAS OUTSIDE THE PARKING LOTS. CARE SHALL BE TAKEN BY THE VARIOUS CONTRACTORS NOT TO OPERATE EQUIPMENT OR OTHER VEHICLES WHEN THE GROUND IS WET OR SOFT IN ORDER TO AVOID DEEP RUTTING, SOIL COMPACTION AND OTHER DESTRUCTION OF TREE ROOT SYSTEMS.

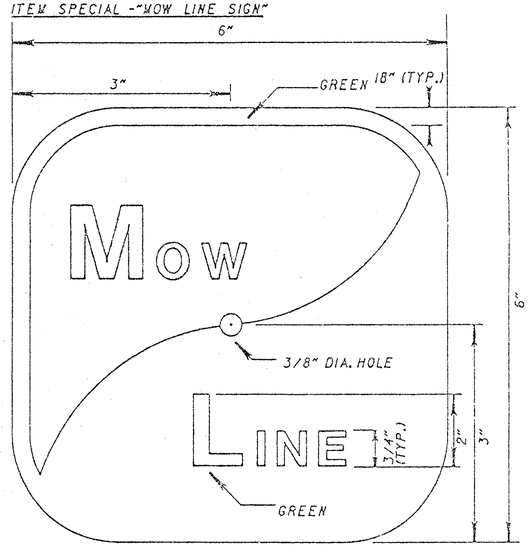
TREES TO BE SALVAGED THAT ARE DAMAGED AT ANY TIME DURING THE CONTRACT SHALL BE REPAIRED OR REPLACED (AT THE CONTRACTOR'S EXPENSE) AS DETERMINED BY THE ENGINEER AFTER CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURALIST. DAMAGED TREES THAT CAN BE REPAIRED SHALL BE PRUNED AND THE DAMAGE REPAIRED WITH PAINT OR WOUND DRESSING AS PER 663.14. REPLACEMENT SHALL BE, IN QUANTITY AND QUALITY, SUFFICIENT TO COMPENSATE FOR SIZES OR TREES LOST. THE WORK SHALL BE COMPLETED AS PER 665 WITH TREES OF THE SIZE AND VARIETY, AS DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURALIST.

ITEM SPECIAL - SNOW FENCE - TREE PROTECTION
SNOW FENCE SHALL CONSIST OF WOOD PICKETS 1/2" X 1 1/2" X 4'-0" NOMINAL SIZE, PAINTED RED AND WOVEN WITH FIVE (5) DOUBLE STRANDS OF 12 GUAGE STEEL WIRE, SPACED APPROXIMATELY TWO INCHES (2") APART OR APPROVED EQUAL.

THE FENCE SHALL BE SUPPORTED BY STEEL OR WOOD POSTS OF ADEQUATE SIZE AND SPACING. USED FENCE AND POSTS IN GOOD CONDITION MAY BE USED AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF SNOW FENCE FURNISHED, ERECTED AND SUBSEQUENTLY REMOVED.

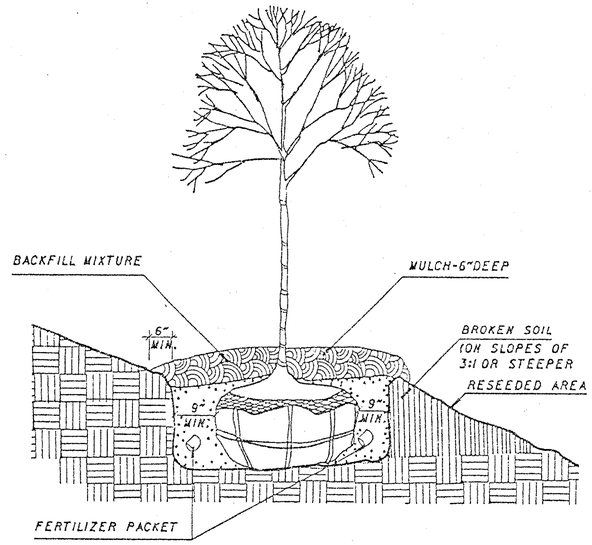
ITEM SPECIAL -"MOW LINE SIGN"



THIS ITEM SHALL CONSIST OF SUPPLYING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE AND INSTALL THE SIGN DETAILED ABOVE AND CONFORMING TO ODOT 630. THE SIGN SHALL BE MOUNTED ON A NO. 2, 5 FOOT DRIVE POST (712.20) AND PLACED ALONG THE PROJECT AS DIRECTED BY THE ENGINEER OR DISTRICT HORTICULTURIST, OR AS SHOWN IN THE PLANS. THE POST SHALL BE PLACED 2 FEET INTO THE GROUND, NO MORE THAN 100 FEET APART. SIGNS SHALL BE ORIENTED PARALLEL TO THE PROPOSED MOW LINE WITH THE FACE TOWARD THE MOW AREA. THE SIGN SHALL BE 0.063" THICK IN ACCORDANCE TO ODOT 730 EXCEPT THAT THE SIGN SHALL BE NON-REFLECTIVE SHEETING OR A GOOD QUALITY ENAMEL PAINT.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH ITEM SPECIAL "MOW LINE SIGN".

GENERAL NOTES



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 AND 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 AND 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 (10-20-20) 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 MIXTURE 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 OTHERWISE 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 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 OPEATIONS 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 SIX 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 THREE 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" (S&D PRODUCTS, INC., BOX 66, PRAIRIE DU CHIEN, WI 53821 (608) 326-2821 OR "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 OR 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 (NO. 2 OR 3 GRADE) PLANTS WILL BE ACCEPTED.

CALC BY ____ DATE ____
CHKD BY ____ DATE ____

PRE-70-2.41 -
PREBLE COUNTY
SAFETY REST AREA

OHIO
FHWA REGION 5

177
194

LANDSCAPING GENERAL SUMMARY

175	178	183	184	185	186	187	188	KEY	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	
							182,000		659	10000	182,000	SQ YD	SEEDING AND MULCHING (URBAN MIX)	
							16,000		659	10000	16,000	SQ YD	SEEDING AND MULCHING (CROWNVETCH)	
							4.3		SPECIAL	659102.02	4.3	ACRES	WILDFLOWER SEEDING AND MULCHING	
							17.82		659	20000	17.82	TON	COMMERCIAL FERTILIZER	
428									659	35000	428	M. GAL	WATER	
													SIZE (BOTANICAL NAME - COMMON NAME)	CONDITION
						72200		EF	661	99900	72200	EACH	GROUNDCOVER & VINES, MISC. (EUONYMUS FORTUNEI 'COLORATUS' - PURPLELEAF WINTER CREEPER)	1 YR. FLAT
						76		IV	662	11500	76	EACH	DECIDUOUS SHRUB, 2' - 3' HEIGHT (ILEX VERTICILLATA - WINTERBERRY)	10" B&B
						58		HV	662	12000	58	EACH	DECIDUOUS SHRUB, 3' - 4' HEIGHT (HAMAMELIS VIRGINIANA-COMMON WITCHHAZEL)	12" B&B
						102		HQ	662	12000	102	EACH	DECIDUOUS SHRUB, 3' - 4' HEIGHT (HYDRANGEA QUERCIFOLIA-OAKLEAF HYDRANGEA)	12" B&B
						55		VD	662	12000	55	EACH	DECIDUOUS SHRUB, 3' - 4' HEIGHT (VIBURNUM DENTATUM-ARROWWOOD)	12" B&B
						116		JC	662	21000	116	EACH	EVERGREEN SHRUB, 18" - 24" HEIGHT (JUNIPERUS CONFERTA-SHORE JUNIPER)	2 GAL
						90		JS	662	21000	90	EACH	EVERGREEN SHRUB, 18" - 24" HEIGHT (JUNIPERUS CHINENSIS PFITZERIANA 'COMPACTA'-COMPACT JUNIPER)	2 GAL
						94		TE	662	21000	94	EACH	EVERGREEN SHRUB, 18" - 24" HEIGHT (TAXUS MEDIA 'EVERLOW'-EVERLOW YEW)	2 GAL
						82		TW	662	21000	82	EACH	EVERGREEN SHRUB, 18" - 24" HEIGHT (TAXUS MEDIA 'WARDII'-WARDS YEW)	2 GAL
			15	15				CC	663	10010	30	EACH	DECIDUOUS FLOWERING TREE, 6'-7' HEIGHT (CERCIS CANADENSIS-EASTERN REDBUD)	16" B&B
		7	103	99	19			CF	663	10010	228	EACH	DECIDUOUS FLOWERING TREE, 6'-7' HEIGHT (CORNUS FLORIDA-FLOWERING DOGWOOD)	16" B&B
		4	32	35	14			AS	663	21500	85	EACH	DECIDUOUS SHADE TREE, 2-1/2" - 3" CALIPER (ACER SACCHARUM-SUGAR MAPLE)	28" B&B
		5	34	24	9			FG	663	21500	72	EACH	DECIDUOUS SHADE TREE, 2-1/2" - 3" CALIPER (FAGUS GRANDIFOLIA-AMERICAN BEECH)	28" B&B
		2	24	23	14			FA	663	21500	63	EACH	DECIDUOUS SHADE TREE, 2-1/2" - 3" CALIPER (FRAXINUS AMERICANA-WHITE ASH)	28" B&B
		9	20	22	1			LT	663	21500	52	EACH	DECIDUOUS SHADE TREE, 2-1/2" - 3" CALIPER (LIRIODENDRON TULIPIFERA-TULIP TREE)	28" B&B
		3	14	16	6			QA	663	21500	39	EACH	DECIDUOUS SHADE TREE, 2-1/2" - 3" CALIPER (QUERCUS ALBA-WHITE OAK)	28" B&B
		5	32	33	15			TT	663	21500	85	EACH	DECIDUOUS SHADE TREE, 2-1/2" - 3" CALIPER (TILIA TOMENTOSA-SILVER LINDEN)	28" B&B
		1	6	10	6			PV	663	99900	23	EACH	TREE MISC. 6' - 8' HEIGHT (PRUNUS VIRGINIA 'SHUMBERT'-CHERRY)	18" B&B
			26	41	3			TC	663	33000	70	EACH	EVERGREEN TREE, 6' - 7' HEIGHT (TSUGA CANADENSIS-CANADIAN HEMLOCK)	22" B&B
		2	18	11				IO	663	33500	31	EACH	EVERGREEN TREE, 7' - 8' HEIGHT (ILEX OPACA-AMERICAN HOLLY)	24" B&B
			93	68	17			PN	663	33500	178	EACH	EVERGREEN TREE, 7' - 8' HEIGHT (PINUS NIGRA-AUSTRIAN PINE)	24" B&B
	11,050								SPECIAL	68012500	11,050	LIN.FT	SNOW FENCE - TREE PROTECTION	
							126		SPECIAL	68098100	126	EACH	ROADSIDE REST AREA, MISC.: MOW LINE SIGN	

CALC BY / DATE	PRE-70-2.41	OHIO	178
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	194
	SAFETY REST AREA		

0 50 100 200 400

NORTH

LEGEND:

TREES TO BE SAVED

TREES TO BE REMOVED

SNOW FENCE TREE PROTCTION

TREES TO BE SAVED

TREES TO BE REMOVED

SHRUBS TO BE REMOVED

REMOVE ALL SHRUBS FROM MEDIAN

SHRUBS TO BE REMOVED

TREES TO BE REMOVED

12' SWATH TO BE CREATED FOR FENCE CONSTRUCTION (TYPICAL)

TREES TO BE SAVED (TYPICAL)

NOTES:

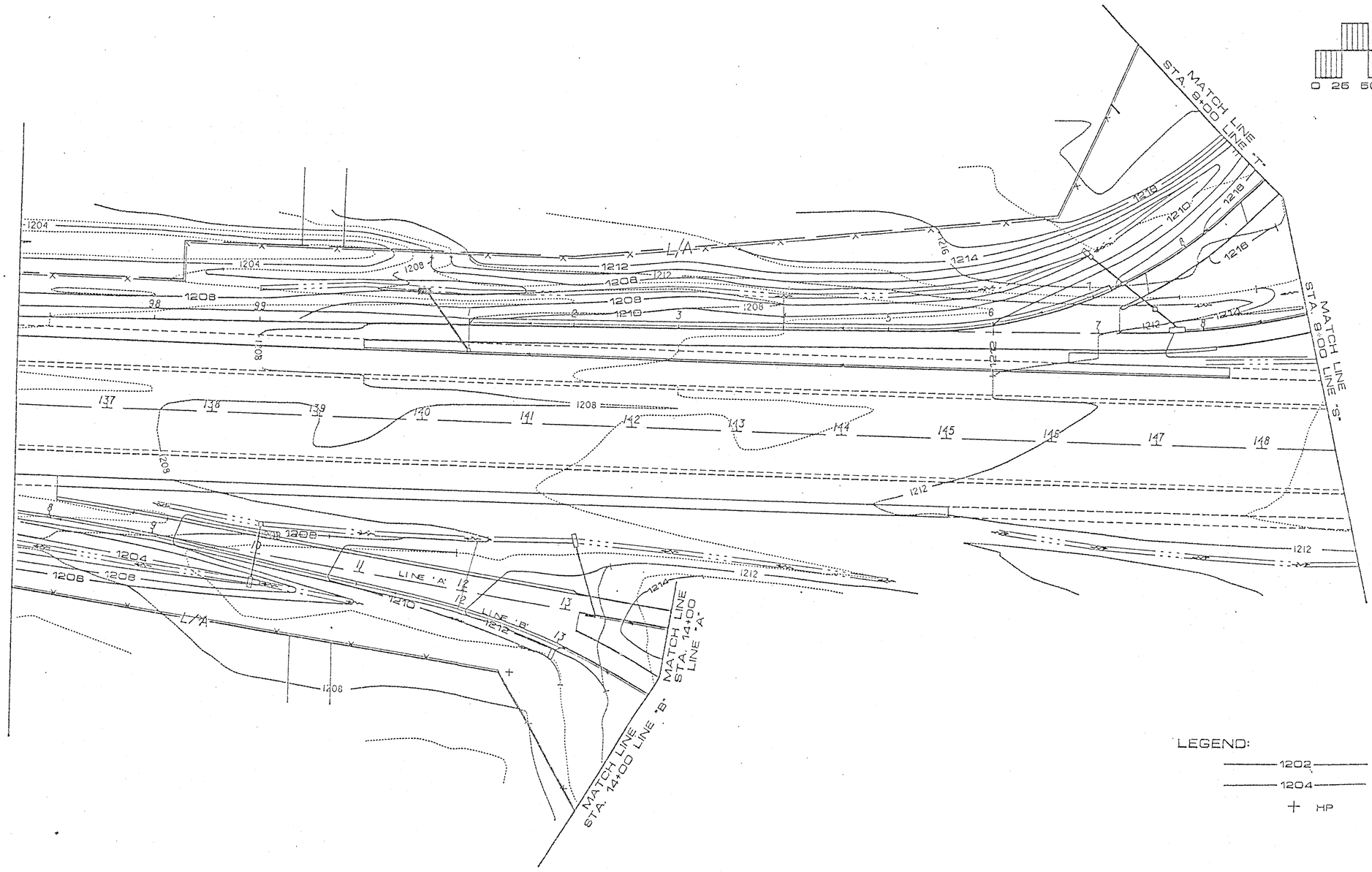
1. FOR QUANTITIES SEE SHEET 177.
2. ALL TREES AND SHRUBS SO MARKED SHALL BE REMOVED AS PER ITEM 201 CLEARING AND GRUBBING, SEE SHEET 10, GENERAL NOTES.
3. 2,000 LINEAL FEET OF SNOWFENCE HAS BEEN ADDED TO THE MEASURED QUANTITY ON THE PLAN. IT WILL BE LOCATED IN THE FIELD BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT HORTICULTURIST.

TREE PROTECTION AND REMOVAL PLAN

CALC BY ____ DATE ____ CHKD BY ____ DATE ____	PRE-70-2.41 PREBLE COUNTY SAFETY REST AREA	OHIO FHWA REGION 5	179 194

0 25 50 100 200

NORTH



LEGEND:

1202	PROPOSED CONTOURS
1204	EXISTING CONTOURS
+ HP	HIGH POINT

2 3 4

WEST RAMPS GRADING PLAN

CALC BY / DATE	PRE-70-2.41	OHIO	180 / 194
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	
	SAFETY REST AREA		

0 25 50 100 200

NORTH

LEGEND:

- 1202 — PROPOSED CONTOURS
- 1204 — EXISTING CONTOURS
- + HP — HIGH POINT

NOTES:

1. THE EMBANKMENT QUANTITY ON THIS SHEET REFLECTS ONLY THOSE AREAS BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BLDG. FOR ADDITIONAL EARTHWORK QUANTITIES SEE SHEET 63.

ESTIMATED QUANTITIES:

ITEM	DESCRIPTION	QUANTITY
203	EMBANKMENT	2150 C.Y.

MATCH LINE STA. 8+00 LINE "T"

MATCH LINE STA. 8+00 LINE "S"

MATCH LINE STA. 23+00 LINE "S"

MATCH LINE STA. 29+25 LINE "V"

1 3 4

WB GRADING PLAN

CALC BY / DATE	PRE-70-2.41	OHIO	181
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	194
	SAFETY REST AREA		

NORTH

0 25 50 100 200

MATCH LINE STA. 14+00 LINE 'B'

MATCH LINE STA. 14+00 LINE 'A'

MATCH LINE STA. 27+00 LINE 'A'

MATCH LINE STA. 30+00 LINE 'E'

L/A

NOTES:

1. THE EMBANKMENT QUANTITY ON THIS SHEET REFLECTS ONLY THOSE AREAS BETWEEN THE TRUCK PARKING AND THE MOTORISTS SERVICE BLDG. FOR ADDITIONAL EARTHWORK QUANTITIES SEE SHEET 56.

ESTIMATED QUANTITIES:

ITEM	DESCRIPTION	QUANTITY
203	EMBANKMENT	5850 C.Y.

LEGEND:

1202 — PROPOSED CONTOURS

1204 — EXISTING CONTOURS

+ HP — HIGH POINT

1 2 4

EB GRADING PLAN

CALC BY / DATE / CHKD BY / DATE	PRE-70-2.41 PREBLE COUNTY SAFETY REST AREA	OHIO FHWA REGION 5	182 194

0 25 50 100 200

NORTH

MATCH LINE "Y"
STA. 28+25 LINE "Y"

MATCH LINE
STA. 23+00
LINE "B"

MATCH LINE "A"
STA. 27+00 LINE "A"

MATCH LINE "E"
STA. 30+00 LINE "E"

R/W

L-A-A

LEGEND:

1202 PROPOSED CONTOURS

1204 EXISTING CONTOURS

+ HP HIGH POINT

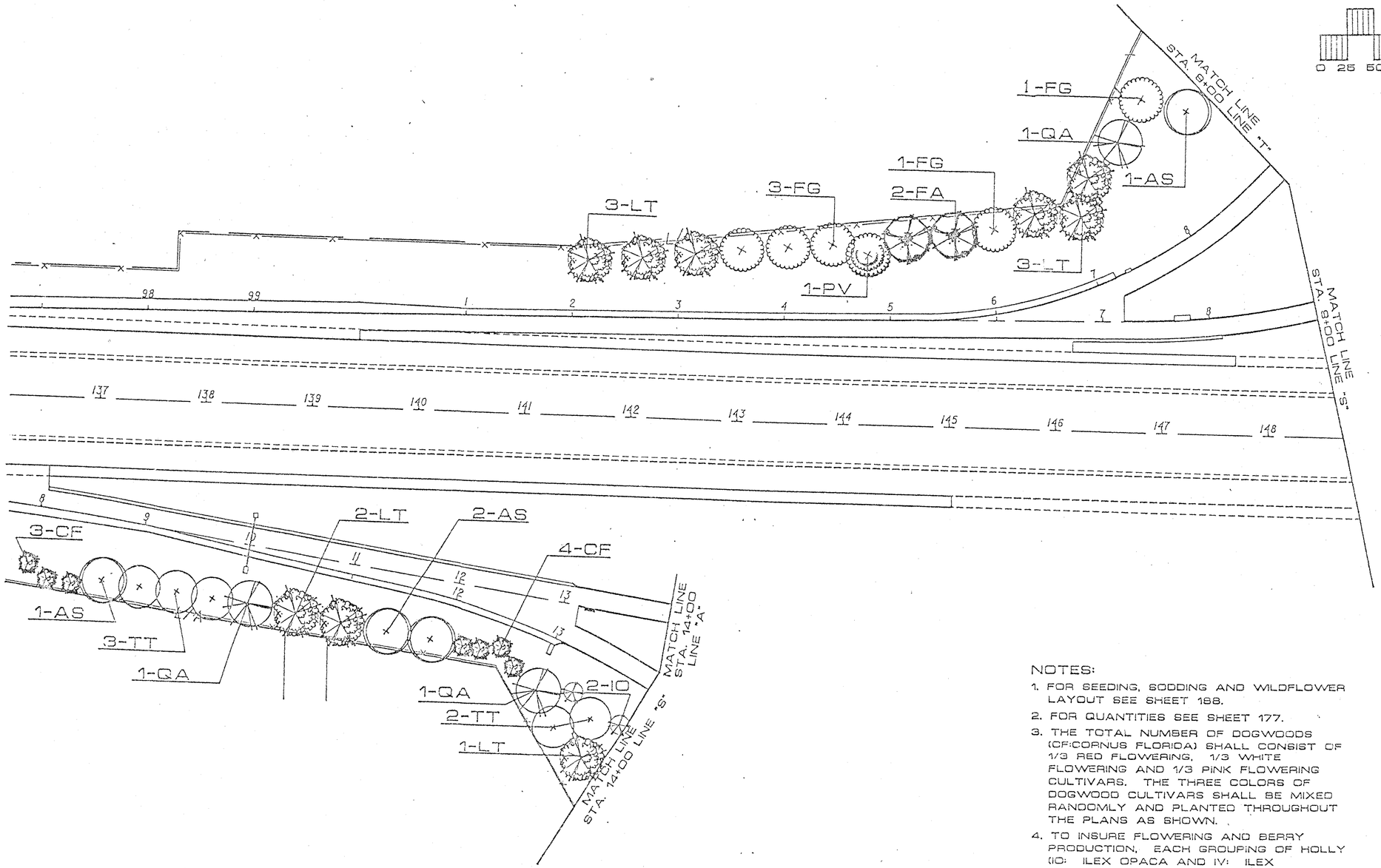
1	2
3	

EAST RAMPS GRADING PLAN

CALC BY / DATE	PRE-70-2.41	OHIO	183 / 194
CHKD BY / DATE	PREBLE COUNTY SAFETY REST AREA	FHWA REGION 5	

0 25 50 100 200

NORTH



NOTES:

1. FOR SEEDING, SODDING AND WILDFLOWER LAYOUT SEE SHEET 188.
2. FOR QUANTITIES SEE SHEET 177.
3. THE TOTAL NUMBER OF DOGWOODS (CF:CORNUS FLORIDA) SHALL CONSIST OF 1/3 RED FLOWERING, 1/3 WHITE FLOWERING AND 1/3 PINK FLOWERING CULTIVARS. THE THREE COLORS OF DOGWOOD CULTIVARS SHALL BE MIXED RANDOMLY AND PLANTED THROUGHOUT THE PLANS AS SHOWN.
4. TO INSURE FLOWERING AND BERRY PRODUCTION, EACH GROUPING OF HOLLY (IO: ILEX OPACA AND IV: ILEX VERTICILLATA) SHALL BE MIXED IN AN APPROXIMATE RATIO OF 3 TO 1, FEMALE PLANTS TO MALE PLANTS.

2 / 3 4

WEST RAMPS LANDSCAPING PLAN

CALC BY	PRE-70-2.41	OHIO	184 / 194
CHKD BY / DATE	PREBLE COUNTY	FHWA REGION 5	
	SAFETY REST AREA		

0 25 50 100 200

NORTH

NOTES:

1. FOR DETAIL LANDSCAPE BED LAYOUT (X,Y AND Z) SEE SHEET 187.
2. FOR SEEDING, SODDING AND WILDFLOWER LAYOUT SEE SHEET 188.
3. FOR QUANTITIES SEE SHEET 177.
4. THE TOTAL NUMBER OF DOGWOODS (CF:CORNUS FLORIDA) SHALL CONSIST OF 1/3 RED FLOWERING, 1/3 WHITE FLOWERING AND 1/3 PINK FLOWERING CULTIVARS. THE THREE COLORS OF DOGWOOD CULTIVARS SHALL BE MIXED RANDOMLY AND PLANTED THROUGHOUT THE PLANS AS SHOWN.
5. TO INSURE FLOWERING AND BERRY PRODUCTION, EACH GROUPING OF HOLLY (IO: ILEX OPACA AND IV: ILEX VERTICILLATA) SHALL BE MIXED IN AN APPROXIMATE RATIO OF 3 TO 1, FEMALE PLANTS TO MALE PLANTS.

DETAIL LANDSCAPE BEDS (TYPICAL)

MATCH LINE STA. 8+00 LINE "T"

MATCH LINE STA. 8+00 LINE "S"

MATCH LINE STA. 23+00 LINE "S"

MATCH LINE STA. 28+26 LINE "V"

1 3 4

WB LANDSCAPING PLAN

CALC BY / DATE	PRE-70-2.41
CHKD BY / DATE	PREBLE COUNTY
	SAFETY REST AREA

OHIO | FHWA REGION 5 | 185 / 194

NORTH

0 25 50 100 200

STA. MATCH LINE 14+00 LINE 'A'

STA. MATCH LINE 14+00 LINE 'B'

STA. MATCH LINE 27+00 LINE 'A'

STA. MATCH LINE 30+00 LINE 'E'

DETAIL LANDSCAPE BEDS (TYPICAL)

L/A

NOTES:

1. FOR DETAIL LANDSCAPE BED LAYOUT (A,B,C,AND D) SEE SHEET 167.
2. FOR SEEDING, SODDING AND WILDFLOWER LAYOUT SEE SHEET 166.
3. FOR QUANTITIES SEE SHEET 177.
4. THE TOTAL NUMBER OF DOGWOODS (CF:CORNUS FLORIDA) SHALL CONSIST OF 1/3 RED FLOWERING, 1/3 WHITE FLOWERING AND 1/3 PINK FLOWERING CULTIVARS. THE THREE COLORS OF DOGWOOD CULTIVARS SHALL BE MIXED RANDOMMLY AND PLANTED THROUGHOUT THE THE PLANS AS SHOWN.
5. TO INSURE FLOWERING AND BERRY PRODUCTION, EACH GROUPING OF HOLLY (IO: ILEX OPACA AND IV: ILEX VERTICILLATA) SHALL BE MIXED IN AN APPROXIMATE RATIO OF 3 TO 1, FEMALE PLANTS TO MALE PLANTS.

1 2 3 4

EB LANDSCAPING PLAN

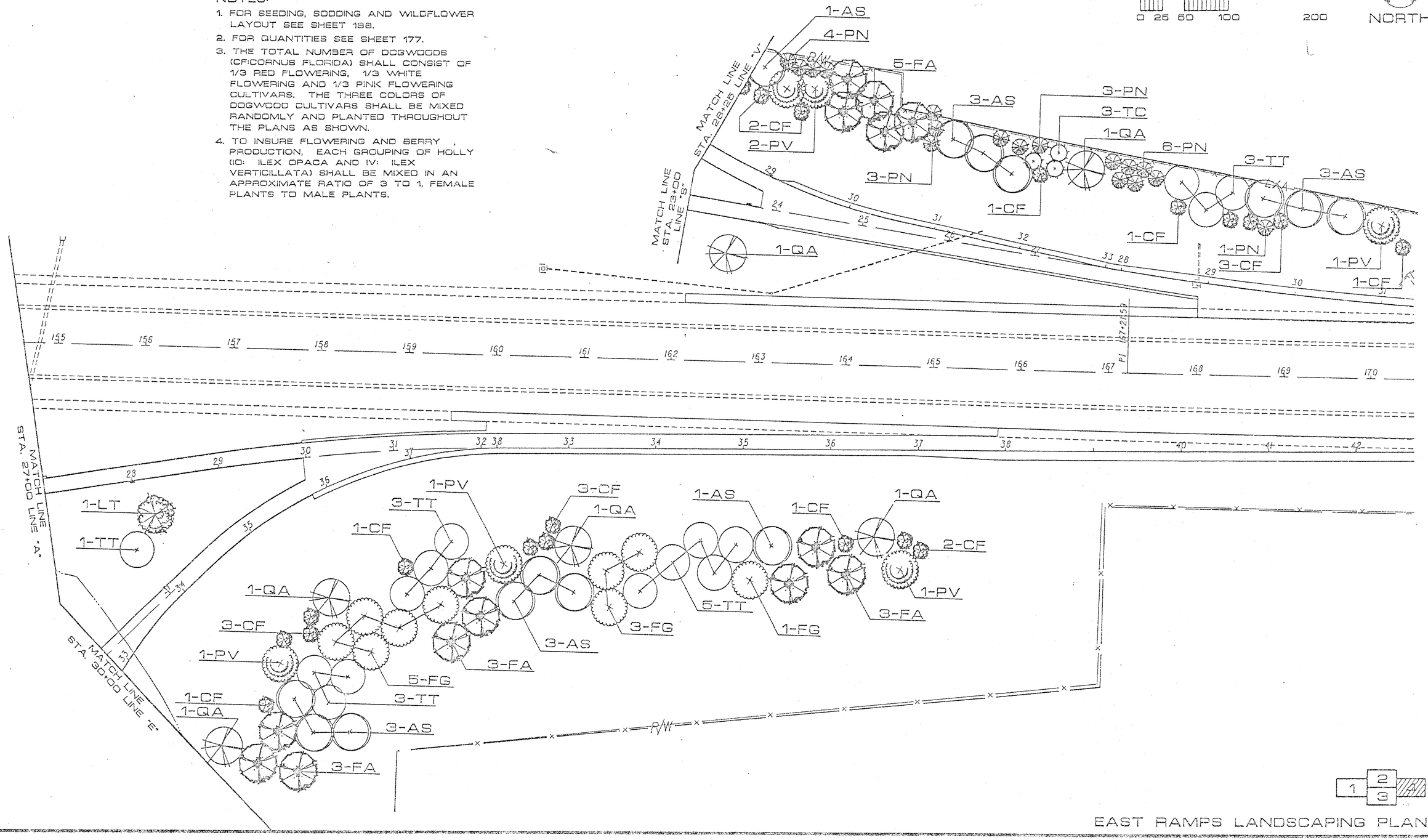
CALC BY		PRE-70-2.41	OHIO	186
DATE		PREBLE COUNTY	FHWA REGION 5	194
CHKD BY		SAFETY REST AREA		
DATE				

0 25 50 100 200

NORTH

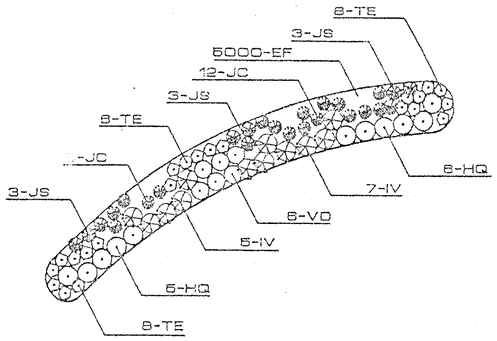
NOTES:

1. FOR SEEDING, SODDING AND WILDFLOWER LAYOUT SEE SHEET 188.
2. FOR QUANTITIES SEE SHEET 177.
3. THE TOTAL NUMBER OF DOGWOODS (CF:CORNUS FLORIDA) SHALL CONSIST OF 1/3 RED FLOWERING, 1/3 WHITE FLOWERING AND 1/3 PINK FLOWERING CULTIVARS. THE THREE COLORS OF DOGWOOD CULTIVARS SHALL BE MIXED RANDOMLY AND PLANTED THROUGHOUT THE PLANS AS SHOWN.
4. TO INSURE FLOWERING AND BERRY PRODUCTION, EACH GROUPING OF HOLLY (IO: ILEX OPACA AND IV: ILEX VERTICILLATA) SHALL BE MIXED IN AN APPROXIMATE RATIO OF 3 TO 1, FEMALE PLANTS TO MALE PLANTS.

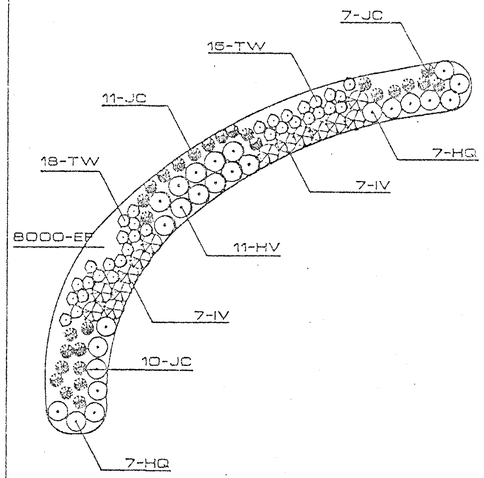


EAST RAMPS LANDSCAPING PLAN

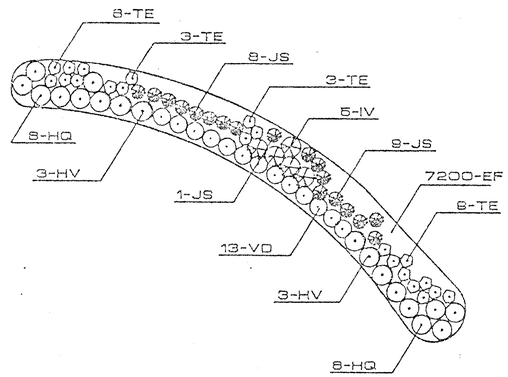
DETAIL LANDSCAPE: WESTBOUND BED X



DETAIL LANDSCAPE: WESTBOUND BED Y



DETAIL LANDSCAPE: WESTBOUND BED Z



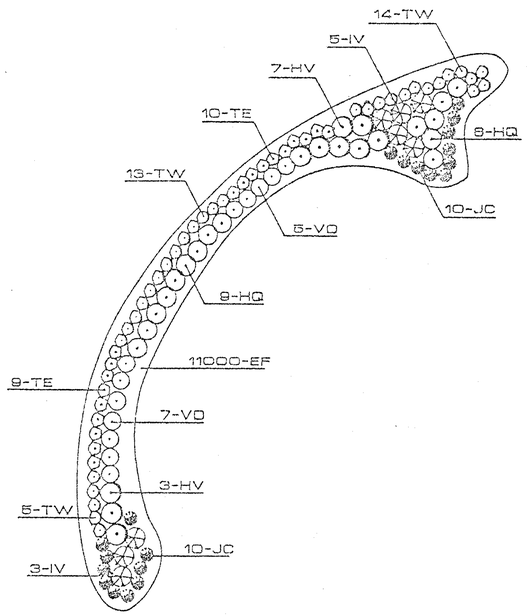
CALC BY DATE	PRE-70-2.41	OHIO	187 / 194
CHKD BY DATE	PREBLE COUNTY SAFETY REST AREA	FHWA REGION 5	

0 10 20 50 100 NORTH

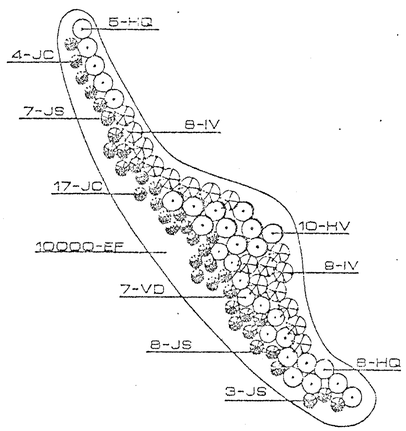
NOTES:

1. FOR QUANTITIES SEE SHEET 177.
2. FOR DETAIL LANDSCAPE BED PLACEMENT SEE LANDSCAPE PLANS, SHEETS 184 & 185.
3. TO INSURE FLOWERING AND BERRY PRODUCTION, EACH GROUPING OF HOLLY (IO: ILEX OPACA AND IV: ILEX VERTICILLATA) SHALL BE MIXED IN AN APPROXIMATE RATIO OF 3 TO 1, FEMALE PLANTS TO MALE PLANTS.
4. ALL LANDSCAPE BEDS WILL BE PLANTED WITH EUONYMUS FORTUNEI 'COLORATUS' (EF-1 YEAR ROOTED CUTTINGS, PLANTED 6" ON CENTER).

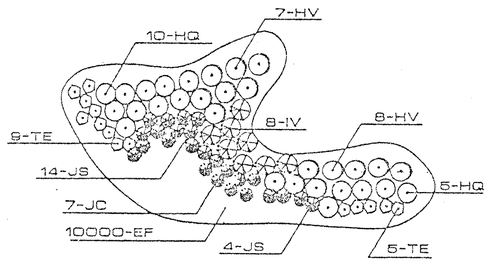
DETAIL LANDSCAPE: EASTBOUND BED A



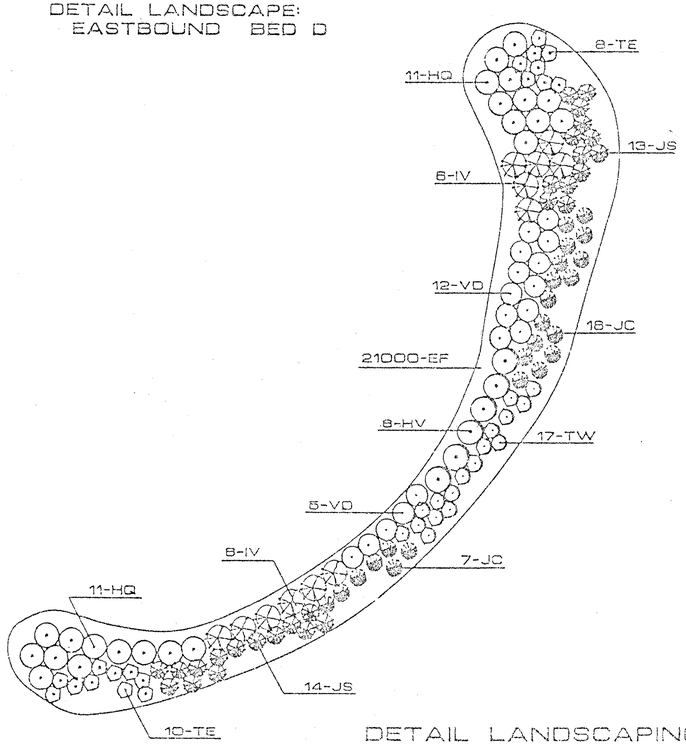
DETAIL LANDSCAPE: EASTBOUND BED B



DETAIL LANDSCAPE: EASTBOUND BED C



DETAIL LANDSCAPE: EASTBOUND BED D



DETAIL LANDSCAPING

CALC BY / DATE	PRE-70-2.41	OHIO	186
CH'D BY / DATE	PREBLE COUNTY	FHWA REGION 5	194
	SAFETY REST AREA		

0 50 100 200 400

NORTH

NOTES:

1. FOR QUANTITIES SEE SHEET 177.
2. ITEM 659 COMMERCIAL FERTILIZER IS TO BE USED FOR ITEMS 659 SEEDING AND MULCHING, (CROWNVETCH AND URBAN GRASS MIXTURE).
3. THE SITE IS TO BE SEEDED WITH ITEM 659 URBAN GRASS MIXTURE WITH THE EXCEPTION OF THOSE AREAS SPECIFICALLY LABELED OTHERWISE (I.E.: CROWNVETCH, WILDFLOWER, SHRUB BEDS AND EXISTING TURF AREAS WITHIN THE EXISTING REST AREA LIMITS).
4. ITEM SPECIAL MOW LINE SIGN WILL BE UTILIZED AROUND ALL WILDFLOWER AND CROWNVETCH BEDS AND PLACED AS SHOWN ON THE PLAN.
5. FOR DETAIL LANDSCAPE BED LAYOUT SEE SHEET 187.

DETAIL LANDSCAPE BEDS (TYPICAL)

DETAIL LANDSCAPE BEDS (TYPICAL)

L/A

R/W

LEGEND:

- DETAIL LANDSCAPE BEDS
- CROWNVETCH SEEDING
- WILDFLOWERS
- MOW LINE SIGNS

SEEDING PLAN

PROPERTY MAP

UTILITY OWNERS	
GAS & ELECTRIC	DAYTON POWER & LIGHT CO. P.O. Box 1247 Courthouse Plaza, S.W. Dayton, Ohio 45401 513-227-2498 Mr. Henry Telljohan
TELEPHONE	UNITED TELEPHONE COMPANY OF OHIO 200 S. Broadway Greenville, Ohio 45331 513-547-8258 Mr. Larry Riffle
WATER, STORM & SANITARY SEWERS	OHIO DEPT. OF TRANSPORTATION District 8 P.O. Box 272 Lebanon, Ohio 45036-0272 513-932-3030 Mr. James Runk

CALC BY DATE	PREBLE COUNTY	OHIO	189 / 194
CHKD BY DATE	PRE-70-2.41 IR-70-1 (40)	FHWA REGION 5	
STATE PROJECT	08525(10)		1 / 6

PID * 4796

SIGNED _____

DATE 10-2-92 DISTRICT DEPUTY DIRECTOR

I HEREBY CERTIFY THAT THIS IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT TRANSPORTATION IN 1992

Dennis Blevins DATE 10/2/92

DENNIS BLEVINS REG. SUR.NO. 6804

STATE OF OHIO DENNIS BLEVINS 6804 REGISTERED SURVEYOR

SEAL

S.R. 40 EX R/W

JEFFERSON TOWNSHIP SECTION 33

JEFFERSON TOWNSHIP SECTION 34

SECTION LINE

ELKHORN ROAD

ORANGEBURG ROAD

BEGIN WORK STA. 127+41.86

IR-70-1 (40)

END WORK STA. 177+56.21

IR-70-1 (40)

BEGIN R/W ACQISITION STATION 134+50

END R/W ACQUISITION STATION 174+00

℄ I-70

TOWNSHIP LINE

4WL-1

3WL-2

4WL-2

5WL

3WL-1

1WL-1

1WL-2

2WL

SHEET 1

SHEET 3

SHEET 5

SHEET 6

EX R/W

EX L/RW

LA/RW

JACKSON TOWNSHIP SECTION 4

JACKSON TOWNSHIP SECTION 3

MURRAY ROAD

0 800 1600

SCALE IN FEET

PROPERTY OWNERS	
1	JAMES J. JORDAN, TRUSTEE HELEN JORDAN, TRUSTEE
2	PAUL E. & JO ANN KUCK
3	JAMES J. JORDAN, TRUSTEE HELEN JORDAN, TRUSTEE
4	DAVID AND BARBARA FERRELL
5	PAUL E. & JO ANN KUCK

NOTE : Refrence Point Information Is Contained In The Construction Plan.

NOTE : The Locations Of The Underground Utilities Shown on the Plans are as Obtained From The Owners of the Utility as Required By Sec. 153.64 O.R.C.

REV	DATE	DESCRIPTION

1 / 6

SCHEMATIC PLAN

TOTAL NUMBER OF
4 OWNERSHIPS
0 TOTAL TAKES
0 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CALC BY / DATE	PREBLE COUNTY PRE-70-2.41	OHIO FHWA REGION 5	190 / 194
CHKD BY / DATE			
FEDERAL PROJECT	IR-70- 1 (40)	STATE PROJECT 0852510	2 / 6

PID 4796

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	AUDITORS PARCEL	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1WL-1	James J Jordan, Trustee	3	352	469	121.462	2.52	0.833	0.041	0.792	-	-	110.041	IR				
	Helen Jordan, Trustee		352	477													
					-	-		-		-	-	-	IR				
1WL-2	James J Jordan, Trustee	4	352	469	-	-	8.109	-	8.109	-	-	-	IR				
	Helen Jordan, Trustee		352	477													
2WL	Paul E. and Jo Ann Kuck	4	334	756	116.092	-	3.395	-	3.395	-	-	112.697	IR				
3WL-1	James J Jordan, Trustee	3	352	469	59.676	0.96	0.248	0.026	0.222	-	55.430	-	IR				
	Helen Jordan, Trustee		352	477													
					-	-		-		-	-	-	IR				
3WL-2	James J Jordan, Trustee	5	352	479	-	-	3.064	-	3.064	-	-	-	IR				
	Helen Jordan, Trustee		352	477													
4WL-1	David and Barbara Ferrell	5	302	375	63.40	-	5.421	-	5.421	-	57.448	-	IR				
4WL-2	David and Barbara Ferrell	6	302	375	-	-	0.531	-	0.531	-	-	-	IR				
5WL	Paul E. and Jo Ann Kuck	6	334	753	77.40	-	1.775	-	1.775	-	75.625	-	IR				

NOTE : The Right-of-Way for This Project Will be Acquired and Provided by The State of Ohio.

2 / 6

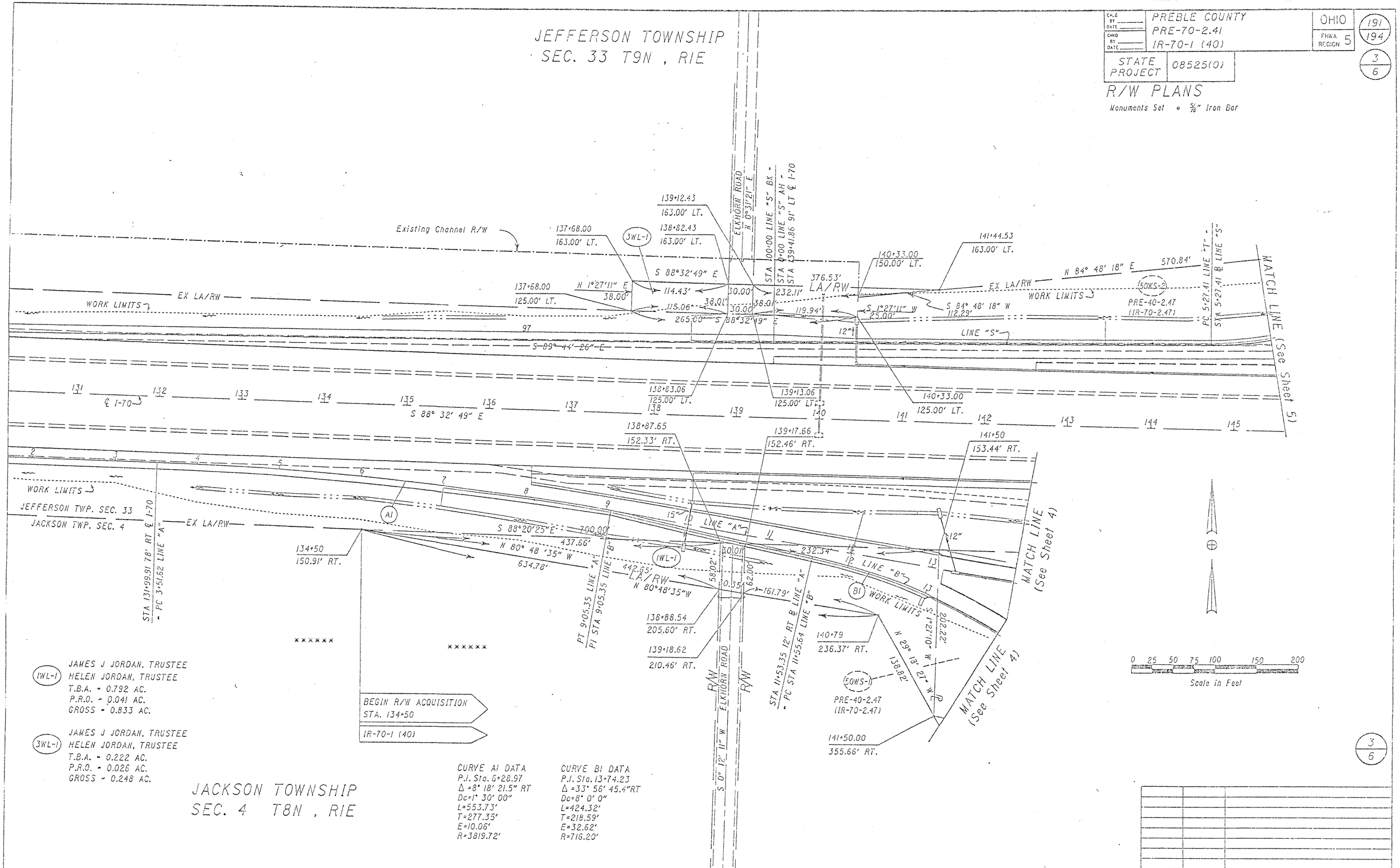
REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

CALC BY / DATE	PREBLE COUNTY	OHIO	191/194
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	
	IR-70-1 (40)		
STATE PROJECT	08525(0)		3/6

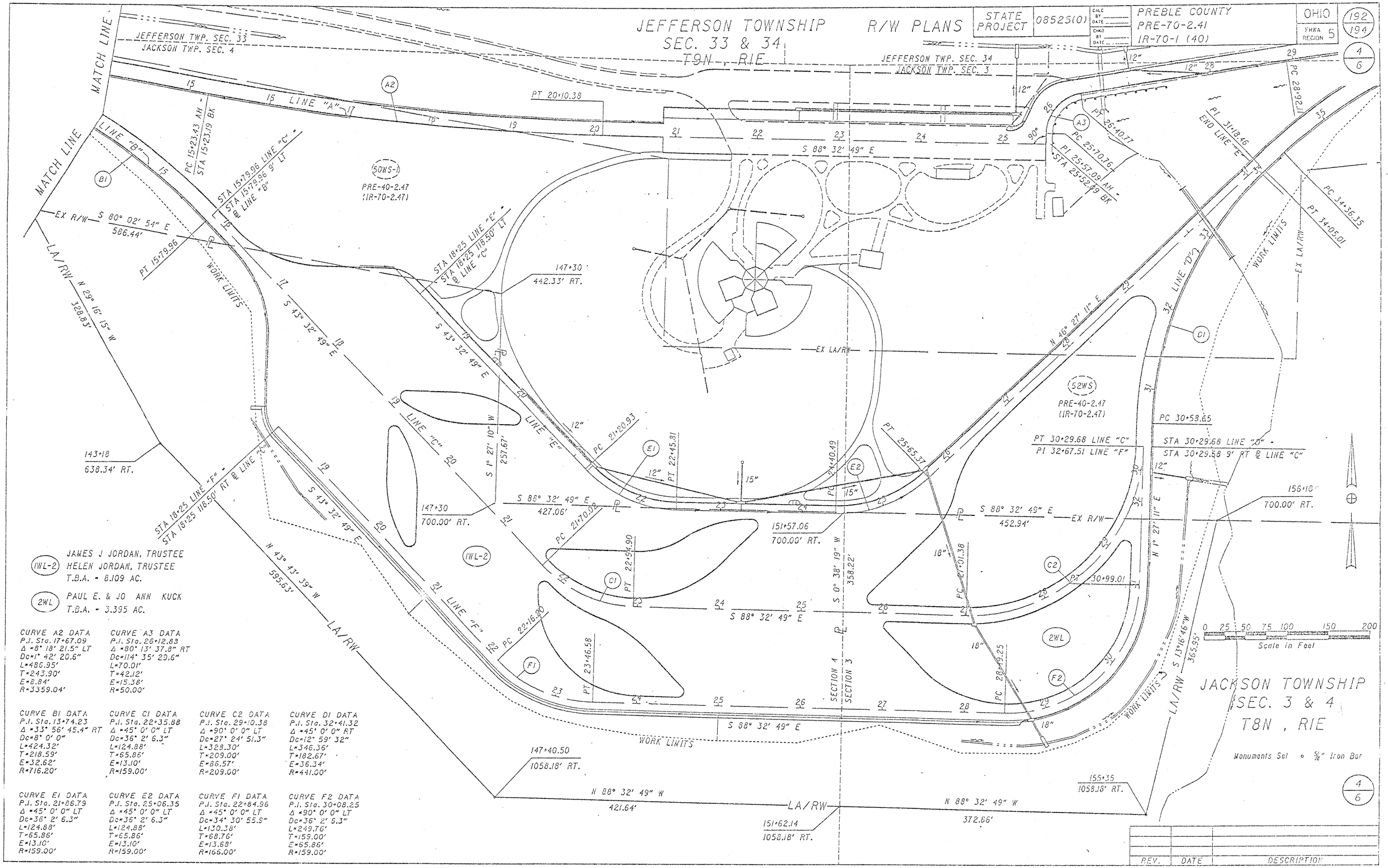
R/W PLANS

Monuments Set ∘ 5/8" Iron Bar



REV.	DATE	DESCRIPTION

RIGHT OF WAY STA. 4+00 TO STA. 14+00 LINE "A" EASTBOUND



(1WL-2) JAMES J JORDAN, TRUSTEE
HELEN JORDAN, TRUSTEE
T.B.A. = 8.109 AC.

(2WL) PAUL E. & JO ANN KUCK
T.B.A. = 3.395 AC.

CURVE A2 DATA
P.I. Sta. 17+67.09
Δ =8° 18' 21.5" LT
Dc=1° 42' 20.6"
L=486.95'
T=243.90'
E=8.84'
R=3359.04'

CURVE A3 DATA
P.I. Sta. 26+12.83
Δ =80° 13' 37.8" RT
Dc=114° 35' 29.6"
L=70.01'
T=42.12'
E=15.38'
R=50.00'

CURVE B1 DATA
P.I. Sta. 13+74.23
Δ =33° 56' 45.4" RT
Dc=8° 0' 0"
L=424.32'
T=218.59'
E=32.62'
R=716.20'

CURVE C1 DATA
P.I. Sta. 22+35.88
Δ =45° 0' 0" LT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE C2 DATA
P.I. Sta. 29+10.38
Δ =90° 0' 0" LT
Dc=27° 24' 51.3"
L=328.30'
T=209.00'
E=86.57'
R=209.00'

CURVE D1 DATA
P.I. Sta. 32+41.32
Δ =45° 0' 0" RT
Dc=12° 59' 32"
L=346.36'
T=182.67'
E=36.34'
R=441.00'

CURVE E1 DATA
P.I. Sta. 21+86.79
Δ =45° 0' 0" LT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE E2 DATA
P.I. Sta. 25+06.35
Δ =45° 0' 0" LT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE F1 DATA
P.I. Sta. 22+84.96
Δ =45° 0' 0" LT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

CURVE F2 DATA
P.I. Sta. 30+08.25
Δ =90° 0' 0" LT
Dc=36° 2' 6.3"
L=249.76'
T=159.00'
E=65.86'
R=159.00'

REV.	DATE	DESCRIPTION

RIGHT OF WAY STA. 14+00 TO STA. 29+00 LINE "A" EASTBOUND

CURVE S1 DATA
P.I. Sta. 8+88.06
Δ = 24° 0' 22.7"LT
Dc=8° 0' 0"
L=300.08'
T=152.28'
E=16.01'
R=716.20'

CURVE S2 DATA
P.I. Sta. 11+97.48
Δ = 25° 12' 1.8" RT
Dc=8° 0' 0"
L=315.01'
T=160.09'
E=17.67'
R=716.20'

CURVE S3 DATA
P.I. Sta. 19+11.22
Δ = 3° 8' 22.5"RT
Dc=8° 0' 0"
L=101.74'
T=51.96'
E=1.81'
R=716.20'

CURVE U1 DATA
P.I. Sta. 15+76.25
Δ = 45° 0' 0" RT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE U2 DATA
P.I. Sta. 19+94.31
Δ = 45° 0' 0" RT
Dc=35° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE V1 DATA
P.I. Sta. 28+51.96
Δ = 34° 6' 44.9"LT
Dc=8° 0' 0"
L=426.41'
T=219.73'
E=32.95'
R=716.20'

CURVE W1 DATA
P.I. Sta. 15+27.17
Δ = 45° 0' 0" RT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE W2 DATA
P.I. Sta. 18+47.06
Δ = 45° 0' 0" RT
Dc=36° 2' 6.3"
L=124.88'
T=65.86'
E=13.10'
R=159.00'

CURVE X1 DATA
P.I. Sta. 13+37.05
Δ = 45° 0' 0" RT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

CURVE X2 DATA
P.I. Sta. 16+67.28
Δ = 45° 0' 0" RT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

CURVE X3 DATA
P.I. Sta. 21+83.20
Δ = 45° 0' 0" RT
Dc=34° 30' 55.9"
L=130.38'
T=68.76'
E=13.68'
R=166.00'

CURVE Y1 DATA
P.I. Sta. 10+47.25
Δ = 45° 0' 0" LT
Dc=14° 29' 6.5"
L=310.66'
T=163.84'
E=32.59'
R=395.55'

(3WL-2) JAMES J JORDAN, TRUSTEE
HELEN JORDAN, TRUSTEE
T.B.A. - 3.064AC.

(4WL-1) DAVID & BARBARA FERRELL
T.B.A. - 5.421 AC.

JEFFERSON TOWNSHIP SEC. 33 & 34 , T9N , R1E

CALC BY / DATE	PREBLE COUNTY	OHIO	193 / 194
CHKD BY / DATE	PRE-70-2.41	FHWA REGION 5	
	IR-70-1 (40)		5 / 6

R/W PLANS

STATE PROJECT	08525(0)

Monuments Set ○ ⅝" Iron Bar

150+27.62 / 2922.24' LT. — Iron Pin Found
150+32.79 / 2541.76' LT. — Stone Found
Stone Found → 150+51.25 / 1179.39' LT.

S 88° 32' 49" E LA/RW 618.00'

150+82 / 1037.71' LT.

157+00 / 1037.71' LT.

N 43° 06' 31" E 321.38'

150+53.60 / 1005.79' LT.

N 43°06'31" E 42.72'

WORK LIMITS

S 40° 22' 17" E LA/RW

S 88° 32' 49" E

PC 15+98.52 — PT 17+28.90 — LINE "X" — (X2) — (4WL-1)

PC 21+14.44 — PT 22+44.82 — (X3) — S 43° 32' 49" E — WORK LIMITS

PC 23+90.43 — 374.90'

159+50 / 758.34' LT.

148+40 / 765.67' LT.

N 43° 06' 31" E LA/RW

S 88° 32' 49" E

149+07.59 / 708.54' LT.

N 46° 27' 11" E 150+57.61 PT 710.24' LT.

S 0° 40' 35" W 295.58'

PC 15+41.69 — PT 16+35.27 — (U1) — LINE "U"

PC 19+20.45 — (U2) — PT 20+58.33

S 88°22'04" W 893.69' — EX R/W

S 1° 27' 10" W 174.34'

N89°11'46"W 150.03' — 133.98.67

(X1) — PC 12+69.29 — LINE "W"

S 88° 32' 49" E

PC 14+61.31 — PT 15+85.19 — (W1)

(5WS) PRE-40-2.47 (IR-70-2.47)

PC 17+81.20 — (W2) — PT 19+06.08 — PI 19+78.70 — S 43° 32' 49" E

STA 23+25.49 LINE "Y" = STA 23+25.49 9' LT @ LINE "U"

STA 11+69.47 / 109.35' LT @ LINE "T" = STA 11+69.47 LINE "U" = STA 11+69.47 LINE "X"

PT 11+94.07 LINE "Y" = STA 11+69.47 9' LT @ LINE "X"

EX LA/RW

MATCH LINE STA. 23+50 (See Sheet 6)

N 25° 02' 36" E LA/RW

(3WL-2)

(Y1) — 15" — LINE "Y" — 15"

STA 11+69.47 LINE "W" = STA 11+69.47 9' RT @ LINE "T"

(5OWS-2) PRE-40-2.47 (IR-70-2.47)

PC 8+83.41 LINE "Y" = STA 8+83.41 LINE "T" — PT 8+64.59

WORK LIMITS

LINE "T" — N 46° 27' 11" E — 455.92'

149+13.80 / 252.66' LT.

146+00 / 216.09' LT.

S 0° 40' 21" W EX R/W

S 0° 48'18" W 315.92'

PC 7+35.79 — LINE "S" — (S1) — (S2)

PCC 10+37.39 — STA 10+35.87 BK — STA 10+37.39 AH

PT 13+52.40

STA 11+27.95 — STA 17+50.25 — PC 18+60.26

MATCH LINE (see Sheet 3)

0 25 50 75 100 150 200
Scale in Feet

REV.	DATE	DESCRIPTION

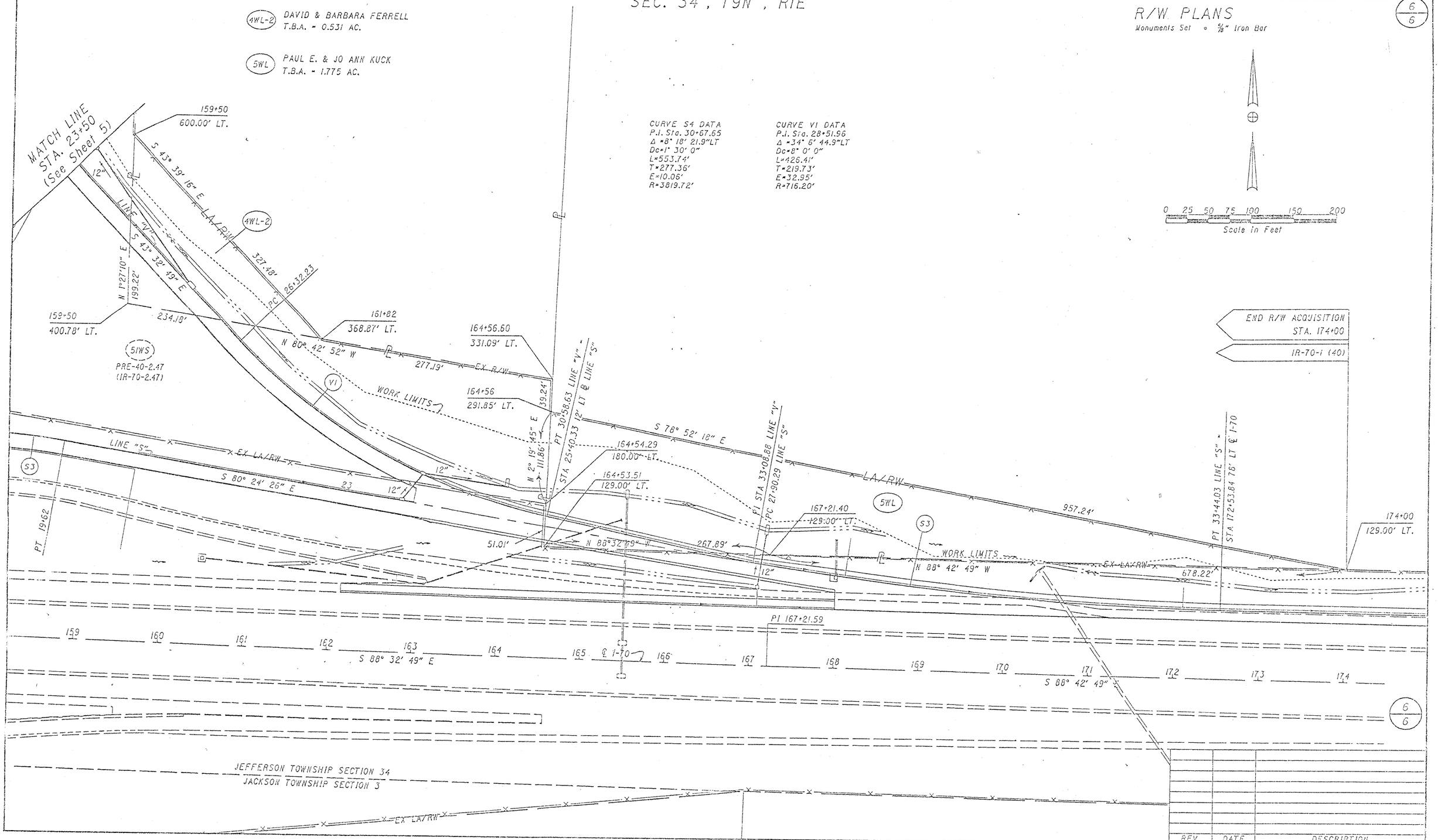
RIGHT OF WAY STA. 6+00 LINE "T" TO STA. 23+50 LINE "W" WESTBOUND

STATE PROJECT	08525(0)	CALC BY / DATE / CHKD BY / DATE	PREBLE COUNTY PRE-70-2.41 IR-70-1 (40)	OHIO FHWA REGION 5	194/194

JEFFERSON TOWNSHIP
SEC. 34, T9N, R1E

R/W PLANS

Monuments Set ∘ 5/8" Iron Bar



CURVE S4 DATA
P.I. Sta. 30+67.65
Δ = 8° 18' 21.9" LT
Dc = 1° 30' 0"
L = 553.74'
T = 277.36'
E = 10.06'
R = 3819.72'

CURVE V1 DATA
P.I. Sta. 28+51.96
Δ = 34° 6' 44.9" LT
Dc = 8° 0' 0"
L = 426.41'
T = 219.73'
E = 32.95'
R = 716.20'

REV.	DATE	DESCRIPTION

RIGHT OF WAY STA. 23+50 LINE "U" TO STA. 35+50 LINE "A" WESTBOUND

GENERAL INFORMATION

INTRODUCTION

THE REPORT CONSIST OF THE SOIL INVESTIGATION OF THE PROPOSED REALIGNMENT OF THE REST AREA LOCATED APPROXIMATELY 2.8 MILES EAST OF THE INDIANA-OHIO STATE LINE. PROPOSED GRADES SHOWING THE CUTS AND FILL EMBANKMENTS ARE FOUND IN THE PROJECT INDEX ON SHEET 1.

EXPLORATION

EXPLORATORY BORINGS WERE MADE BY MEANS OF TRUCK MOUNTED MECHANICALLY SOIL AUGER BETWEEN JULY 19 AND 31, 1989 AND JULY 30 AND AUGUST 1, 1990.

INVESTIGATIONAL FINDINGS

MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINATELY COMPRISED OF GRAVELS WITH SANDS, SILTS AND CLAYS IN THE A-2-6 CLASSIFICATION AND SOME SILTY CLAYS IN THE A-6 CLASSIFICATION GENERALLY HAVING MOISTURE CONTENTS IN THE LOWER PORTION OF THE PLASTIC RANGE OR NON-PLASTIC.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS — 245 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(0)	A-1-A	83	17	15	4	1	NP	NP	5	1
GRAVEL WITH SAND.	A-1-B(0)	A-1-B	35	22	25	13	5	NP	NP	11	4
COARSE AND FINE SAND.	-----	A-3A	20	19	39	18	4	NP	NP	12	2
GRAVEL WITH SAND AND SILT.	A-2-4(0)	A-2-4	39	11	18	21	11	17	2	11	9
GRAVEL WITH SAND, SILT, AND CLAY.	A-2-6(0)	A-2-6	70	4	7	13	6	28	16	10	1
SANDY SILT.	A-4 (3)	A-4A	17	10	21	33	19	18	4	11	178
SILT.	A-4(6)	A-4B	5	4	24	55	12	18	2	14	2
SILT, AND CLAY.	A-6(6)	A-6A	14	7	20	33	26	29	13	13	15
SILTY CLAY.	A-6(10)	A-6B	10	5	19	33	33	38	20	19	11
CLAY.	A-7-6(15)	A-7-6	8	3	9	40	40	46	25	19	8
COBBLES.				VISUAL CLASSIFICATION							-
VARIOUS OTHER MATERIALS.				VISUAL CLASSIFICATION							14

SOD AND/OR TOPSOIL = X = APPROXIMATE DEPTH.

AUGER BORING - PLAN VIEW,

AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.

W — WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.

⊖ INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT

▽ FREE WATER.

NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT. e.g. 15

SOIL PROFILE

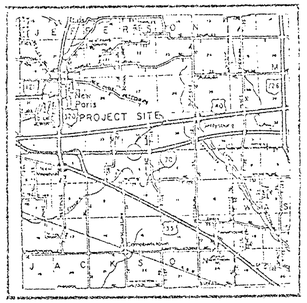
PREBLE COUNTY

PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THIS 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.

ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN ON THE SOIL PROFILE FOUNDATION INVESTIGATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE INVESTIGATION, SOIL TESTS AND BEDROCK BORINGS 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.



LOCATION MAP

Recon. R.D.R. 7/19/1988 – 7/30/1990
Drilling - T.R.S. 7/19 to 7/31/1986
7/30 to 8/1/1990
Drafting - M.R.S. 3/17/1990

PROJECT INDEX

STATIONS FROM	STATIONS TO	PLAN VIEW SHEET	PROFILE SHEET	CUT MAX.	FILL EMB. MAX.
IR 70 (Westbound Lane Rest Area)					
Line G					
88+00	100+00 Back =		3	-	1'
0+00 Ahead	33+10	3 & 4	3	18'	2'
Line T					
5+15	11+70		4	8'	2'
Line U					
	23+24		5	15'	
Line L					
23+25	35+05		4	20'	
Line W					
11+69	19+80	4	10	10'	3'
Line X					
1+75	25+90	4	11	12'	3'
IR 70 (Eastbound Lane Rest Area)					
Line A					
40+00	44+00	3 & 4	5	3'	3'
Line B					
9+05	15+79	3 & 4	6	1'	3'
Line C					
15+79	30+29	4	6	2'	5'
Line D					
30+29	38+10	4	6	2'	14'
Line E					
18+20	31+18	4	7	5'	17'
Line F					
18+20	32+67	4	7	4'	10'

SOIL PROFILE
PREBLE COUNTY
PRE-70-2.41
OHIO STATE HIGHWAY TESTING LABORATORY
1600 W. BROAD ST. COLUMBUS, OHIO 43223
2/10

SUMMARY OF 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

STATION & OFFSET	DEPTH FROM	DEPTH TO	% AGG	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS
LINE S											
2+00.020 Rt.	01.0	04.0	23	11	19	26	21	27	11	11	A-6A *
	04.0	08.0	19	12	24	26	19	18	5	10	A-4A
	08.0	11.0	29	13	21	26	11	15	3	9	A-4A
	11.0	18.0	16	11	20	29	24	17	4	8	A-4A
	18.0	20.0	13	12	24	31	20	17	5	9	A-4A
6+00.020 Rt.	01.0	04.0	4	3	11	39	43	43	19	19	A-7-6 *
	04.0	07.0	0	1	4	46	49	55	33	22	A-7-6
	07.0	09.0	17	18	21	22	22	24	7	22	A-4A
	09.0	13.0	7	8	22	38	25	17	4	14	A-4A
	13.0	15.0	19	12	25	28	16	17	4	14	A-4A
	15.0	17.0	15	12	24	30	19	17	4	13	A-4A
	17.0	22.0	22	12	22	25	19	15	3	8	A-4A
	22.0	25.0	23	9	18	31	18	17	5	10	A-4A
10+00.020 Rt.	01.0	04.0	10	8	23	29	30	31	13	9	A-6A *
	04.0	07.0	13	14	32	27	14	20	4	13	A-4A
	07.0	11.0	11	11	20	33	25	18	4	12	A-4A
	11.0	18.0	14	12	23	32	19	15	2	10	A-4A
12+50.000 Cl.	01.0	05.0	11	3	9	41	36	45	24	18	A-7-6
	05.0	07.0	18	11	24	29	20	18	4	7	A-4A
	07.0	11.0	13	6	18	33	30	19	5	15	A-4A *
	11.0	13.0	7	7	15	45	26	19	3	11	A-4A
	13.0	17.0	19	12	22	29	18	18	4	9	A-4A
	17.0	22.0	18	12	23	28	17	19	7	8	A-4A
	22.0	25.0	18	4	9	27	43	18	3	12	A-4A
13+50.000 Cl.	01.0	04.0	28	10	19	28	17	22	8	9	A-4A *
	04.0	07.0	18	12	23	29	18	18	5	11	A-4A
	07.0	09.0	34	8	18	27	13	17	3	12	A-4A
	09.0	11.0	20	10	20	33	17	15	2	10	A-4A
	11.0	13.0	17	19	26	28	10	NP	NP	12	A-4A
	13.0	18.0	13	8	20	37	22	17	4	11	A-4A
	18.0	20.0	8	5	18	44	26	19	5	10	A-4A
21+55.000 Cl.	01.0	08.0	4	6	24	25	41	37	18	18	A-6B
	08.0	11.0	18	11	23	27	20	18	5	10	A-4A
	11.0	16.0	12	9	20	35	24	19	5	12	A-4A *
	16.0	17.0	12	10	22	33	23	17	3	12	A-4A
	17.0	22.0	13	8	20	35	24	18	4	12	A-4A
24+00.000 Cl.	01.0	08.0	17	8	21	30	24	25	9	9	A-4A
	08.0	10.0	18	12	22	30	18	18	4	9	A-4A
	10.0	13.0	18	10	19	32	21	17	4	12	A-4A
	13.0	15.0	15	9	19	34	23	17	4	11	A-4A
	15.0	16.0	50	8	14	16	12	18	4	11	A-2-4
	16.0	22.0	21	9	19	30	21	18	5	11	A-4A *
	22.0	25.0	25	7	18	32	20	18	5	12	A-4A
28+00.000 Cl.	01.0	02.0	8	6	19	48	19	18	3	7	A-4A *
	02.0	06.0	18	11	19	34	20	20	5	10	A-4A *
	06.0	09.0	20	10	19	33	18	17	6	10	A-4A
	09.0	13.5	20	11	18	35	16	18	3	10	A-4A
	13.0	18.0	14	10	18	37	21	19	6	9	A-4A
	18.0	20.0	24	6	17	30	21	19	7	11	A-4A
32+00.000 Cl.	01.0	04.0	12	9	20	37	22	21	6	8	A-4A *
	04.0	08.0	4	7	23	29	37	31	15	14	A-6A
	08.0	10.0	8	7	23	27	34	34	18	24	A-6B
	10.0	13.0	41	14	23	14	8	NP	NP	8	A-1-B
	13.0	14.0	23	13	22	25	17	17	3	13	A-4A
	14.0	18.0	29	15	20	24	12	NP	NP	12	A-4A
	18.0	20.0	27	13	22	24	14	NP	NP	10	A-4A
36+50.020 Lt.	00.5	03.0	18	2	8	35	37	42	22	25	A-7-6 *
	03.0	08.0	24	5	15	28	27	42	25	18	A-7-6
	08.0	12.0	17	10	23	31	19	NP	NP	11	A-4A
	12.0	17.0	18	9	19	32	22	18	7	10	A-4A
	17.0	22.0	20	10	18	31	21	18	6	11	A-4A
34+50.015 Lt.	00.5	03.0	23	14	26	28	11	NP	NP	10	A-4A *
	03.0	07.0	22	13	27	24	14	NP	NP	8	A-4A
	07.0	12.0	18	11	24	30	17	18	5	9	A-4A
	12.0	14.0	63	17	13	4	1	NP	NP	5	A-1-A
	14.0	18.0	42	10	16	20	12	NP	NP	9	A-2-4
	18.0	23.0	16	11	21	33	17	16	4	12	A-4A

STATION & OFFSET	DEPTH FROM	DEPTH TO	% AGG	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS
28+50.010 Lt.	00.5	05.0	29	1	3	37	30	40	19	25	A-6B
	05.0	08.0	19	11	22	33	15	NP	NP	13	A-4A
	08.0	13.0	26	10	20	31	13	NP	NP	10	A-4A
	13.0	17.0	12	6	18	38	25	17	5	12	A-4A
	17.0	21.0	15	8	19	37	19	18	7	10	A-4A
	21.0	23.0	23	11	19	33	14	NP	NP	10	A-4A
LINE V											
13+00.000 Cl.	01.0	04.0	3	5	19	42	31	30	12	12	A-6A
	04.0	08.0	9	7	22	34	28	30	14	9	A-6A
	08.0	10.0	14	20	41	22	3	NP	NP	13	A-3A *
	10.0	13.0	23	30	31	15	1	NP	NP	13	A-1-B *
	13.0	17.0	14	12	23	33	18	18	4	10	A-4A
	17.0	18.0	14	12	23	35	16	18	4	10	A-4A
15+00.000 Cl.	01.0	03.0	0	0	4	57	39	49	17	17	A-6B
	03.0	08.0	0	2	8	50	40	32	14	28	A-6A *
	08.0	11.0	14	10	23	34	19	18	6	10	A-4A *
	11.0	13.0	20	20	27	26	7	NP	NP	12	A-2-4
	13.0	15.0	48	18	19	12	2	NP	NP	12	A-1-B
	15.0	18.0	22	14	23	29	12	18	4	9	A-4A
	18.0	20.0	20	11	20	34	15	16	4	9	A-4A
19+78.000 Cl.	01.0	04.0	18	8	27	24	23	33	14	9	A-6A
	04.0	07.0	13	10	26	32	19	20	6	8	A-4A
	07.0	11.0	15	13	25	32	13	16	5	9	A-4A
	11.0	16.0	8	8	19	43	22	17	4	9	A-4A
	16.0	19.0	5	6	17	51	21	18	4	10	A-4B
	19.0	22.0	17	9	21	36	15	16	3	9	A-4A
	22.0	25.0	18	10	18	38	17	16	5	9	A-4A
LINE U											
14+00.000 Cl.	01.0	03.0	29	10	21	24	16	24	9	10	A-4A
	03.0	08.0	19	16	27	25	13	17	4	13	A-4A
	08.0	10.0	11	13	30	29	15	15	2	9	A-4A *
	10.0	13.0	44	8	15	21	11	16	3	10	A-2-4 *
	13.0	19.0	13	12	20	33	20	17	4	11	A-4A
	19.0	22.0	16	8	23	35	17	17	4	11	A-4A
	22.0	25.0	12	10	23	34	21	17	3	11	A-4A
17+00.012 Lt.	01.0	04.0	3	6	23	32	36	36	17	14	A-6B
	04.0	09.0	18	13	26	29	14	17	3	8	A-4A *
	09.0	13.0	12	12	27	34	15	16	3	10	A-4A *
	13.0	18.0	14	11	24	36	15	18	4	9	A-4A
	18.0	23.0	20	11	21	33	13	17	5	8	A-4A
	23.0	25.0	18	7	18	41	18	17	4	10	A-4A
LINE Y											
23+25.000 Cl.	00.5	05.0	11	3	15	36	35	37	22	22	A-6B *
	05.0	10.0	22	12	24	28	16	NP	NP	11	A-4A
	10.0	15.0	26	9	17	32	16	NP	NP	10	A-4A
	15.0	18.0	27	13	25	25	10	NP	NP	11	A-2-4
	18.0	23.0	29	8	18	26	18	NP	NP	11	A-4A
25+00.000 Cl.	01.0	03.0	23	4	16	36	21	27	11	10	A-6A
	03.0	08.0	14	10	22	35	19	19	4	7	A-4A *
	08.0	10.0	11	12	23	36	18	18	5	10	A-4A *
	10.0	15.0	15	7	19	43	16	16	3	10	A-4A
	15.0	18.0	13	9	22	40	16	16	3	8	A-4A
	18.0	20.0	13	10	22	38	18	17	4	10	A-4A
LINE A											
0+00.030 Rt.	01.0	04.0	3	3	11	41	42	45	25	17	A-7-6 *
	04.0	07.0	2	2	9	42	45	52	32	21	A-7-6
	07.0	09.0	20	10	21	30	19	21	7	12	A-4A
	09.0	12.0	18	10	22	31	21	17	4	11	A-4A
	12.0	16.0	10	8	20	34	27	18	5	10	A-4A
	16.0	20.0	20	10	17	29	24	18	6	8	A-4A

STATION & OFFSET	DEPTH FROM	DEPTH TO	% AGG	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS
4+00.015 Rt.	01.0	04.0	17	6	18	32	25	18	5	12	A-4A *
	04.0	08.0	23	10	21	28	18	18	3	9	A-4A
	08.0	12.0	16	8	18	35	22	17	4	10	A-4A
	12.0	14.0	16	10	19	32	21	17	3	11	A-4A
	14.0	17.0	33	10	19	27	11	NP	NP	8	A-4A
	17.0	20.0	28	23	28	14	7	18	2	11	A-1-B
8+00.012 Rt.	01.0	04.0	9	7	26	21	37	18	2	13	A-4A *
	04.0	07.0	15	14	27	26	18	40	23	11	A-6B
	07.0	11.0	43	10	18	19	12	17	4	9	A-2-4
	11.0	16.0	20	12	22	26	18	18	3	9	A-4A
	16.0	20.0	21	10	17	27	25	19	5	10	A-4A
18+00.025 Lt.	01.0	05.0	13	11	24	31	19	19	6	9	A-4A
	05.0	09.0	15	12	24	31	18	20	8	10	A-4A
	09.0	13.0	19	10	22	30	19	19	7	9	A-4A
	13.0	17.0	12	11	20	37	20	16	4	10	A-4A
	17.0	20.0	18	9	20	35	20	19	6	11	A-4A
20+00.012 Lt.	01.0	04.0	3	3	12	43	39	42	23	18	A-7-6
	04.0	07.0	13	15	24	15	33	15	5	11	A-4A
	07.0	12.0	14	9	21	34	22	17	4	10	A-4A
	12.0	17.0	18	16	23	29	14	18	4	9	A-4A
	17.0	21.0	13	8	20	33	25	19	5	11	A-4A
	21.0	25.0	15	10	20	38	19	18	4	10	A-4A
24+00.030 Lt.	01.0	04.0	23	12	19	27	19	26	13	14	A-6A
	04.0	07.0	16	13	24	32	15	16	2	11	A-4A
	07.0	09.0	19	16	28	25	12	16	2	12	A-4A
	09.0	13.0	14	13	24	33	16	18	3	9	A-4A
	13.0	17.0	17	13	21	32	17	18	3	8	A-4A
	17.0	20.0	10	10	26	42	12	16	6	10	A-4A
28+00.012 Rt.	01.0	03.0	6	9	20	36	27	27	12	10	A-6A *
	03.0	05.0	0	6	23	42	29	35	10	27	A-4A
	05.0	10.0	11	10	23	37	19	25	11	13	A-6A
	10.0	13.0	12	12	24	35	17	19	6	11	A-4A
	13.0	20.0	13	10	24	37	16	17	5	8	A-4A
32+00.010 Rt.	01.0	05.0	9	9	21	40	21	21	7	12	A-4A *
	05.0	06.0	14	10	20	36	20	18	3	10	A-4A
	06.0	11.0	18	11	21	32	18	16	2	10	A-4A
	11.0	16.0	13	12	23	36	18	16	2	10	A-4A
	16.0	20.0	14	11	21	37	17	17	3	9	A-4A
36+00.010 Rt.	01.0	06.0	11	6	18	40	22	19	6	10	A-4A *
	06.0	11.0	11	6	15	45	23	20	7	12	A-4A
	11.0	16.0	25	6	14	34	21	19	7	12	A-4A
	16.0	21.0	8	8	22	36	22	18	4	12	A-4A
	21.0	25.0	14	9	20	36	21	19	6	11	A-4A
40+00.010 Rt.	01.0	04.0	13	12	23	35	17	18	5	7	A-4A *
	04.0	08.0	11	9	20	37	23	19	6	10	A-4A
	08.0	13.0	10	9	19	42	20	21	7	11	A-4A
	13.0	16.0	11	9	20	42	18	20	7	10	A-4A
	16.0	18.0	25	19	37	14	5	NP	NP	11	A-3A
	18.0	20.0	12	11	21	37	19	17	3	12	A-4A
44+00.010 Rt.	01.0	04.0	10	9	22	32	27	28	12	11	A-6A *
	04.0	08.0	10	11	22	39	18	21	6	10	A-4A
	08.0	11.0	9	11	28	28	26	28	10	14	A-4A
	11.0	13.0	4	7	26	37	26	29	8	20	A-4A
	13.0	17.0	8	9	21	36	25	21	6	19	A-4A
	17.0	20.0	11	10	22	37	20	19	7	10	A-4A
LINE B											
11+30.105 Rt.	01.0	05.0	13	5	21	28	33	37	16	21	A-6B
	05.0	08.0	22	12	23	26	15	-	-	12	
			BR SANDY CLAYEY SILT								VISUAL
	08.0	10.0	34	12	20	23	11	-	-	10	
			BR SANDY CLAYEY SILT								VISUAL
	10.0	14.0	17	9	27	34	13	NP	NP	18	A-4A
	14.0	19.0	17	11	21	35	16	-	-	9	
			GR SANDY CLAYEY SILT								VISUAL
	19.0	22.0	16	9	18	37	18	-	-	10	
			GR SANDY CLAYEY SILT								VISUAL

STATION & OFFSET	DEPTH FROM	DEPTH TO	% AGG	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS
LINE C											
28+00.000 Cl.	01.0	08.0	20	10	21	30	19	NP	NP	19	A-4A *
	08.0	11.0	16	11	25	33	15	-	-	11	
			BR SANDY CLAYEY SILT								VISUAL
	11.0	14.0	18	9	23	35	15	NP	NP	11	A-4A
	14.0	19.0	25	7	18	37	13	NP	NP	12	A-4A
	19.0	20.0	5	1	31	39	4	NP	NP	17	A-4B
	20.0	25.0	22	8	23	17	30	NP	NP	10	A-4A
30+00.000 Cl.	01.0	03.0	13	5	20	30	30	40	22	22	A-6B
	03.0	07.0	13	12	23	31	17	-	-	14	
			BR SANDY CLAYEY SILT								VISUAL
	07.0	12.0	31	11	19	27	12	-	-	9	
			BR SANDY CLAYEY SILT								VISUAL
	12.0	14.0	20	12	20	34	14	-	-	9	
			BR SANDY CLAYEY SILT								VISUAL
	14.0	15.0	33	19	19	20	9	NP	NP	14	A-2-4
	15.0	18.0	18	9	19	37	17	NP	NP	10	A-4A
	18.0	19.0	25	18	21	25	13	-	-	14	
			BR SAND AND GRAVEL								VISUAL
	19.0	23.0	16	9	24	35	16	NP	NP	9	A-4A
LINE D											
30+29.000 Rt.	00.8	05.0	12	8	23	27	32	37	21	19	A-6B
	05.0	10.0	18	5	14	41	22	NP	NP	18	A-4A
	10.0	14.0	22	9	19	32	18	NP	NP	10	A-4A
	14.0	18.0	22	13	27	25	13	NP	NP	13	A-4A
	18.0	21.0	20	6	19	35	18	NP	NP	10	A-4A
	21.0	25.0	18	7	15	38	23	16	6	9	A-4A
32+00.000 Cl.	01.0	04.0	8	9	25	31	27	25	10	12	A-4A
	04.0	07.0	13	12	25	31	19	17	4	8	A-4A
	07.0	10.0	9	12	25	35	19	18	4	8	A-4A
	10.0	12.0	22	10	20	31	17	20	8	10	A-4A
	12.0	16.0	19	10	23	33	15	19	4	9	A-4A
	16.0	20.0	28	7	17	32	16	19	1	10	A-4A
35+00.000 Cl.	01.0	04.0	0	8	26	25	41	NP	NP	15	A-4A *
	04.0	08.0	13	13	28	31	17	15	6	11	A-4A
	08.0	10.0	21	10	21	31	17	18	5	11	A-4A
	10.0	15.0	14	9	20	39	18	18	6	10	A-4A
	15.0	20.0	13	11	20	37	17	18	5	9	A-4A
LINE E											
23+00.020 Lt.	01.0	05.0	20	3	11	34	32	26	6	12	A-4A *
	05.0	10.0	20	2	8	35	35	27	7	26	A-4A
	10.0	13.0	41	8	16	23	12	20	6	10	A-2-4
	13.0	16.0	38	4	13	19	32	9	4	10	A-4A
	16.0	20.0	19	2	6	47	19	18	6	9	A-4A
	20.0	23.0	21	8	18	35	18	19	7	10	A-4A
25+00.020 Lt.	01.0	04.0	32	4	15	25	24	34	14	24	A-6A *
	04.0	08.0	14	9	23	39	15	NP	NP	11	A-4A
	08.0	13.0	18	9	20	35	18	NP	NP	14	A-4A
	13.0	15.0	22	8	21	33	16	18	6	9	A-4A
	15.0	20.0	70	4	7	13	6	26	18	10	A-2-6
	20.0	23.0	27	7	17	30	19	27	13	7	A-6A
26+00.000 Cl.	01.0	04.0	0	8	23	34	37	38	21	15	A-6B *
	04.0	08.0	12	8	23	31	26	27	12	21	A-6A
	08.0	13.0	24	11	21	31	13	23	6	10	A-4A
	13.0	17.0	11	12	23	33	21	18	6	10	A-4A
	17.0	20.0	11	8	20	37	23	20	7	10	A-4A
LINE F											
22+00.140 Rt.	01.0	05.0	0	6	24	36	34	NP	NP	21	A-4A
	05.0	09.0	16	13	23	32	12	NP	NP	9	A-4A
	09.0	11.0	22	14	24	28	14	NP	NP	11	A-4A
	11.0	14.0	18	13	20	40	8	NP	NP	15	A-4A
	14.0	18.0	18	10	18	33	20	-	-	10	
			BR-GR SANDY CLAYEY SILT								VISUAL
	18.0	23.0	20	10	21	31	18	-	-	9	
			GR SANDY CLAYEY SILT								VISUAL
26+00.035 Rt.	01.0	05.0	27	8	20	27	18	NP	NP	18	A-4A *
	05.0	07.0	47	8	13	23	9	NP	NP	9	A-2-4
	07.0	11.0	21	10	22	33	14	NP	NP	11	A-4A
	11.0	13.0	33	10	19	27	11	-	-	9	
			BR SANDY CLAYEY SILT								VISUAL
	13.0	18.0	24	10	21	30	15	-	-	9	
			GR SANDY CLAYEY SILT								VISUAL
	18.0	21.0	24	13	23	27	13	-	-	9	
			GR SANDY CLAYEY SILT								VISUAL
	21.0	23.0	18	11	25	31	18	19	7	9	A-4A

SOIL PROFILE

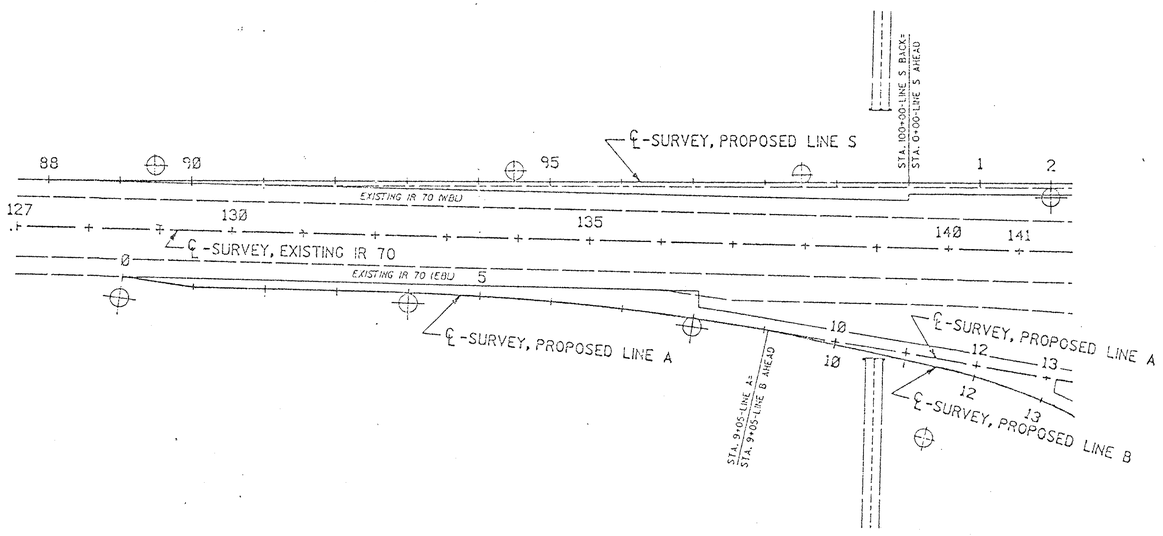
PREBLE COUNTY

PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS OHIO 43223

3/10

NORTH



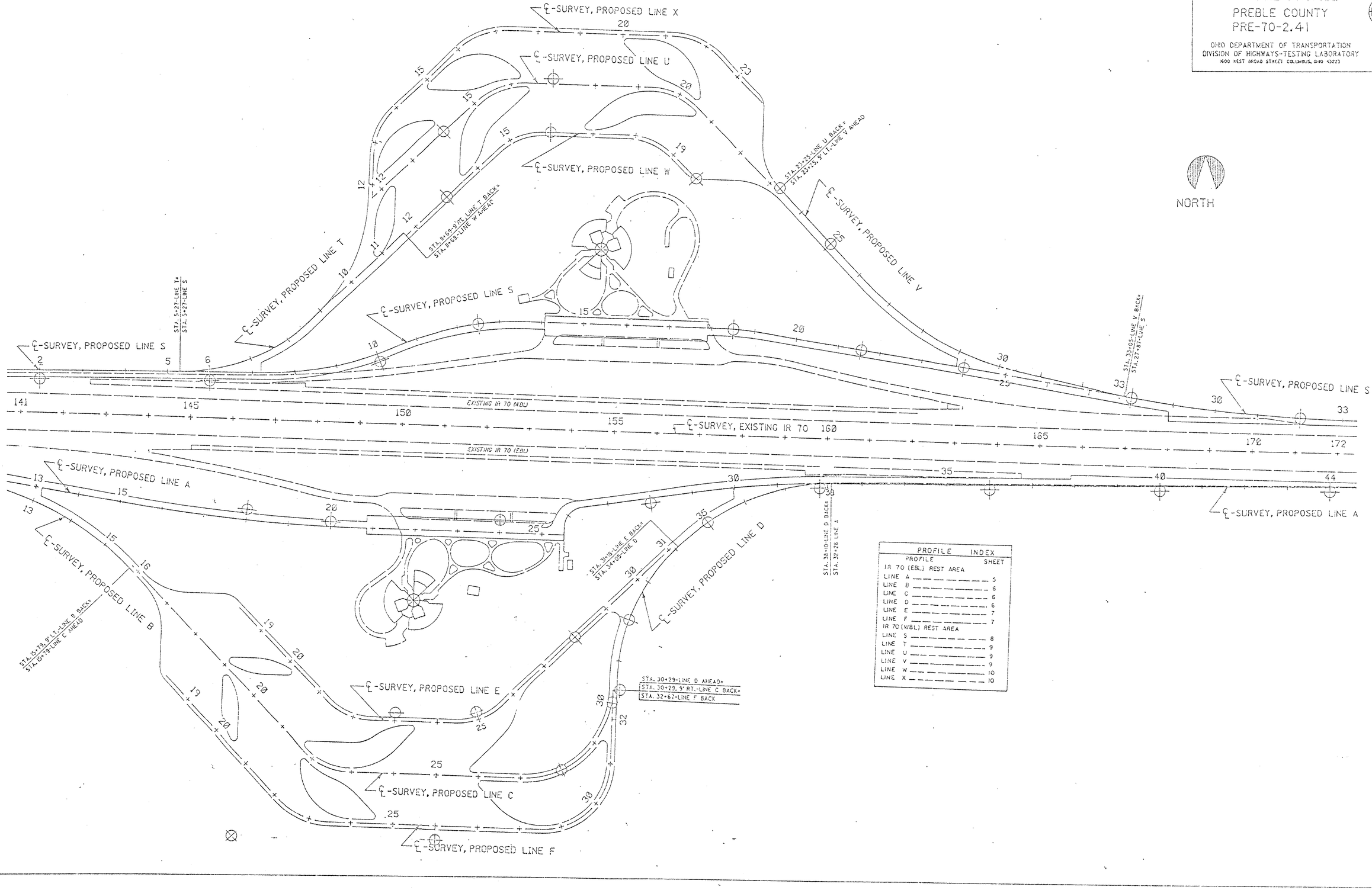
PROFILE INDEX

PROFILE	SHEET
LINE A	5
LINE B	6
LINE S	8

SOIL PROFILE
PREBLE COUNTY
PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

9/10



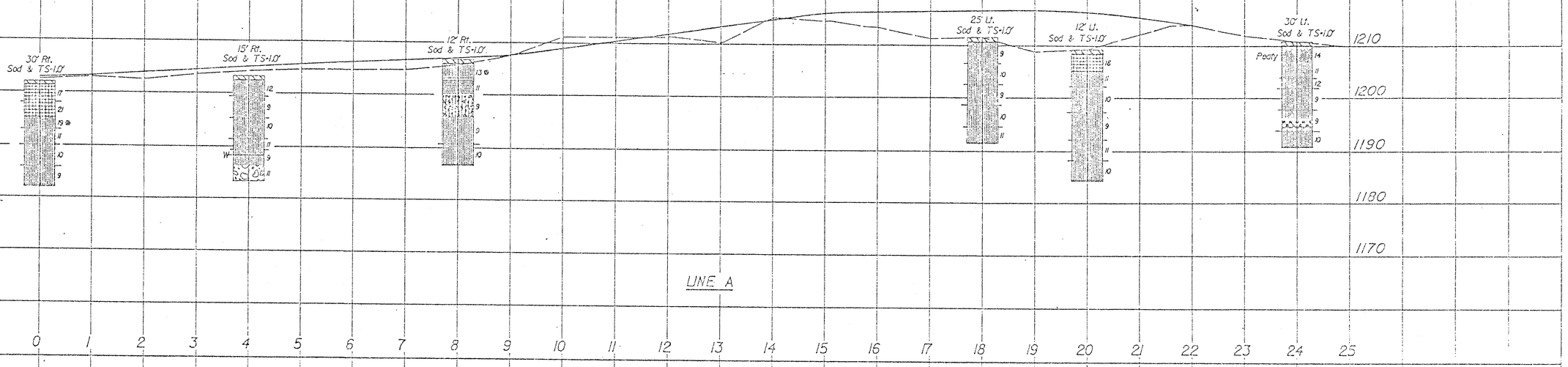
PROFILE INDEX

PROFILE	SHEET
IR 70 (EBL) REST AREA	
LINE A	5
LINE B	6
LINE C	6
LINE D	6
LINE E	7
LINE F	7
IR 70 (WBL) REST AREA	
LINE S	8
LINE T	9
LINE U	9
LINE V	9
LINE W	10
LINE X	10

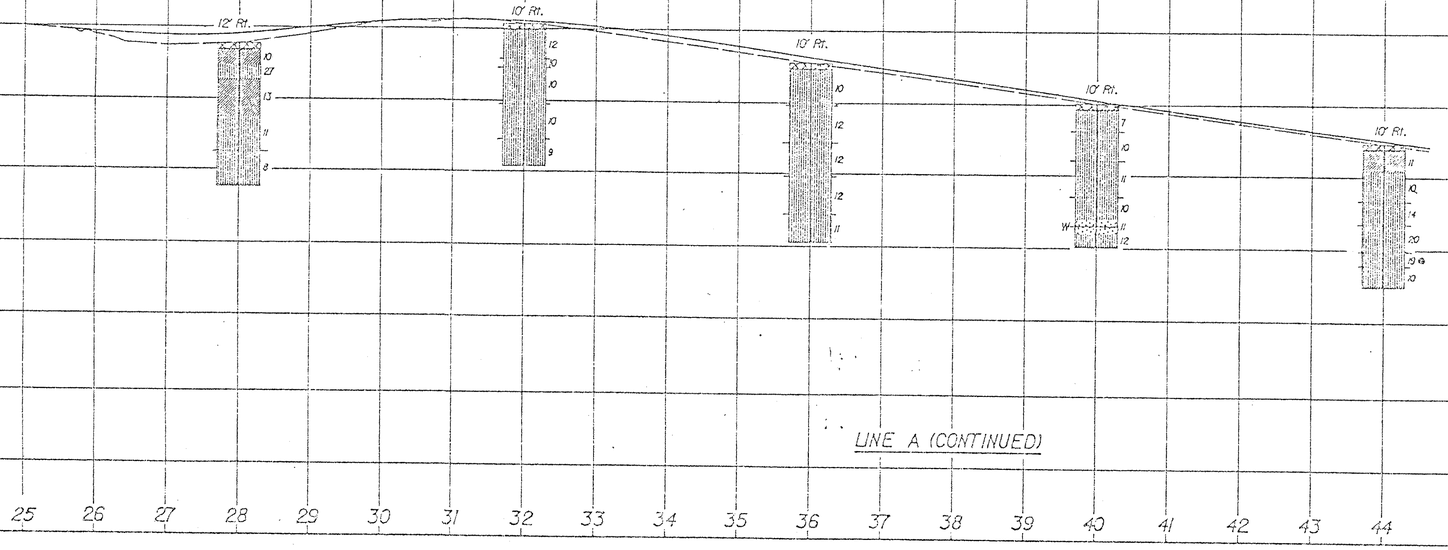
SOIL PROFILE
PREBLE COUNTY
PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

5/10



LINE A

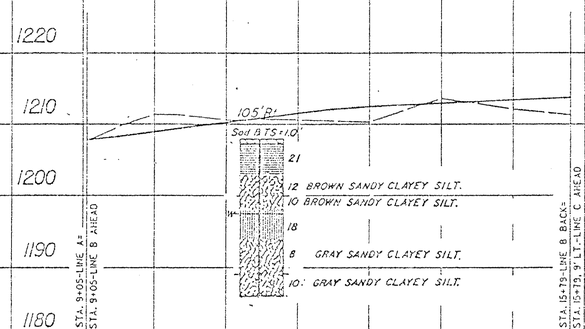


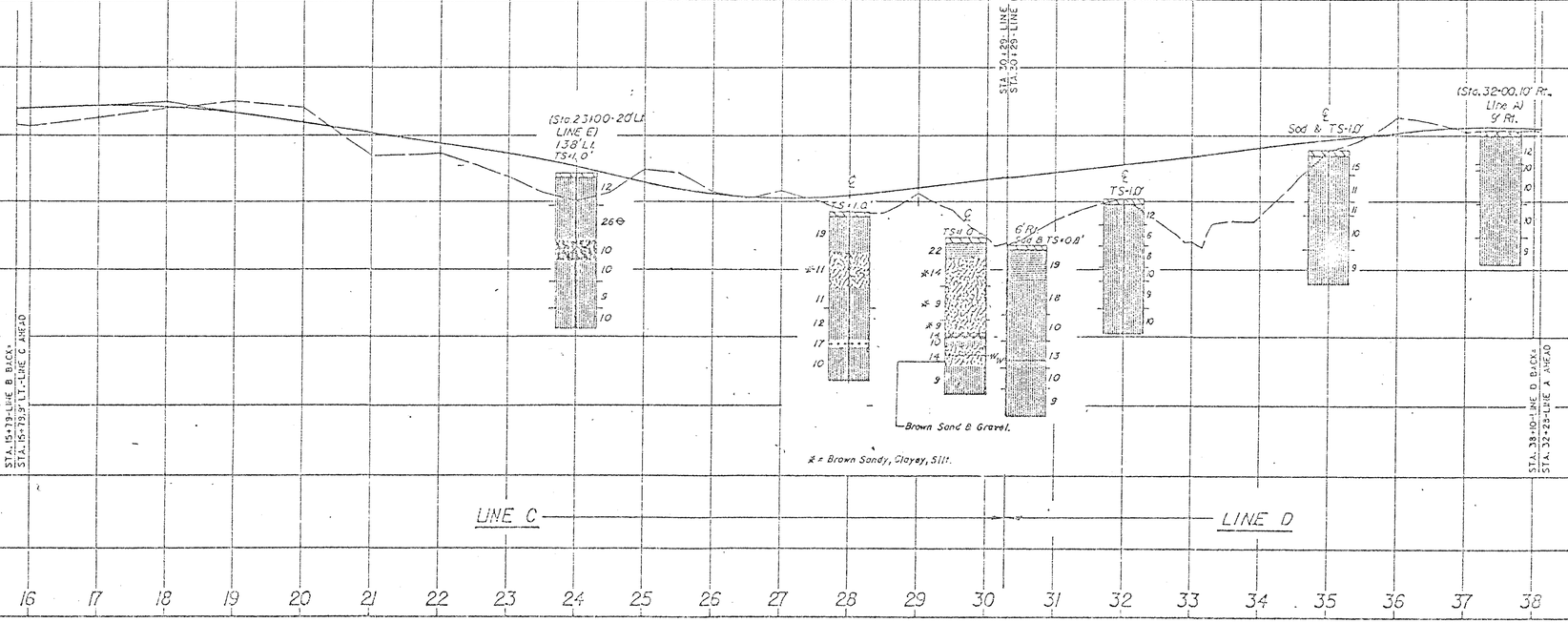
LINE A (CONTINUED)

SOIL PROFILE
PREBLE COUNTY
PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

6/10





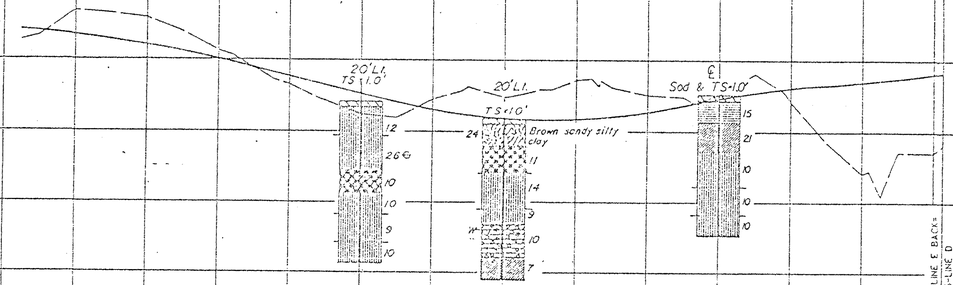
SOIL PROFILE

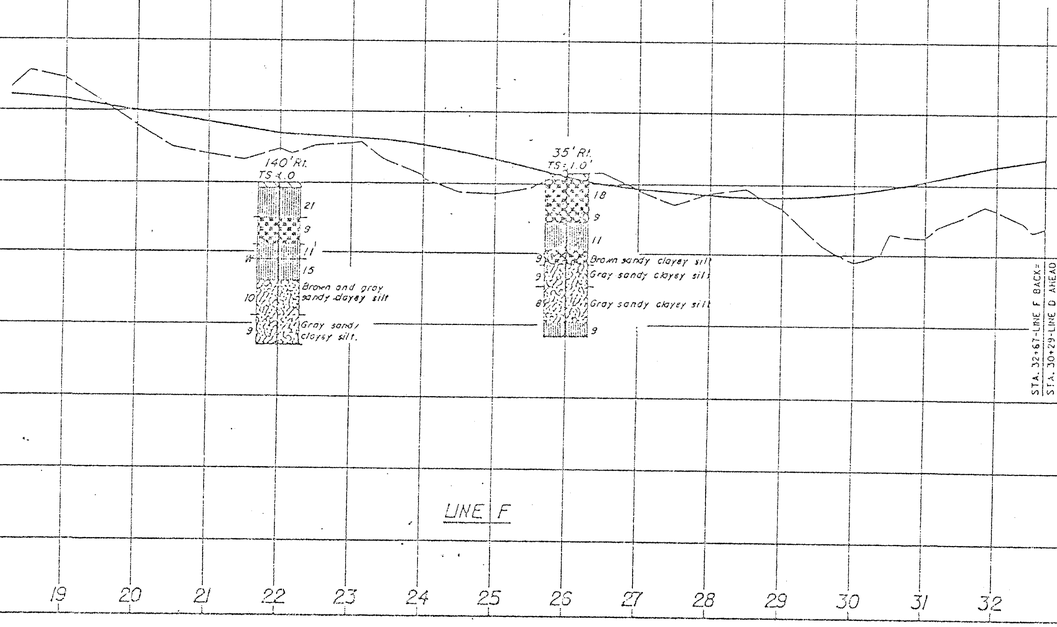
PREBLE COUNTY

PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

7/10





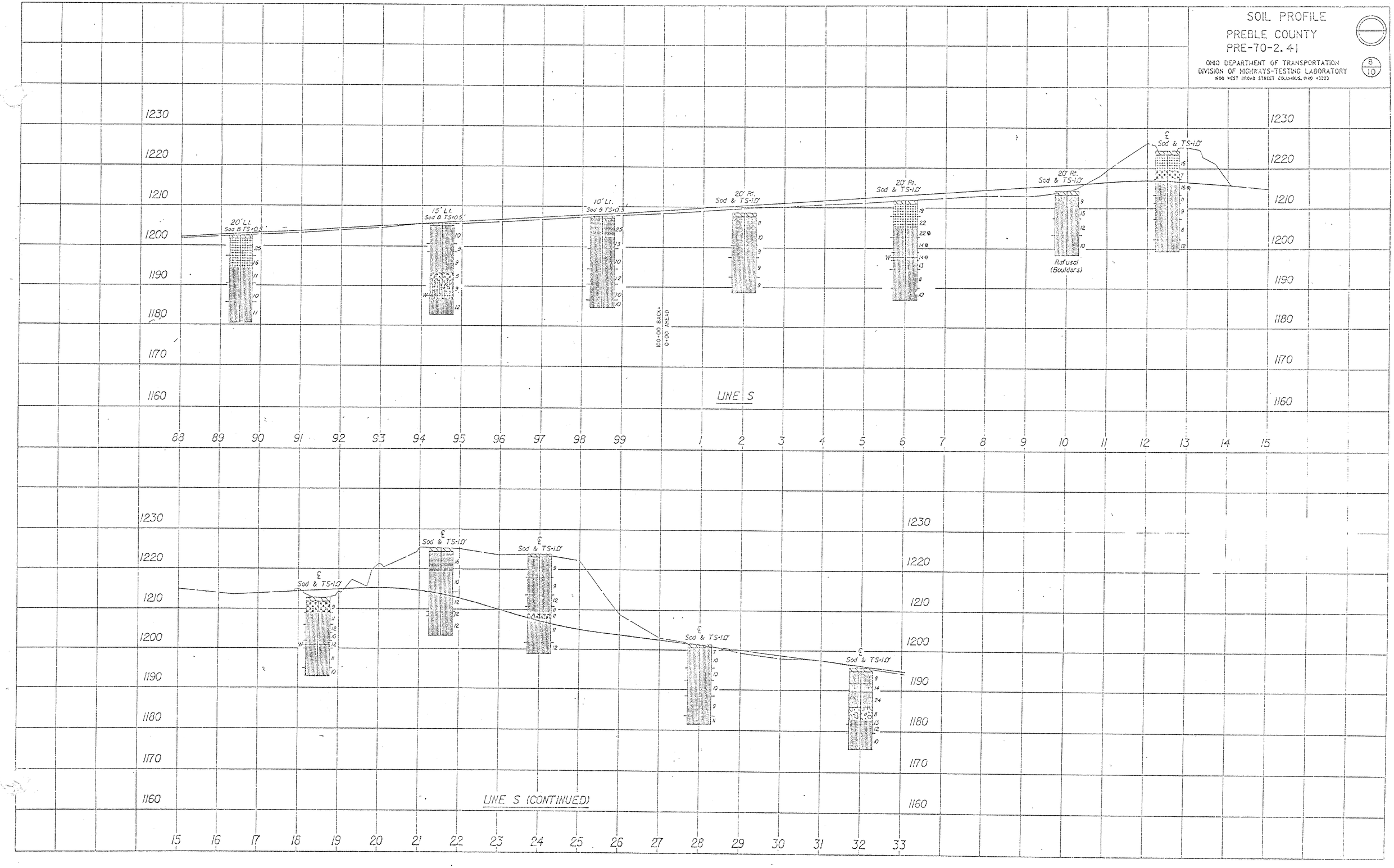
SOIL PROFILE

PREBLE COUNTY

PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

8/10



SOIL PROFILE

PREBLE COUNTY

PRE-70-2.41

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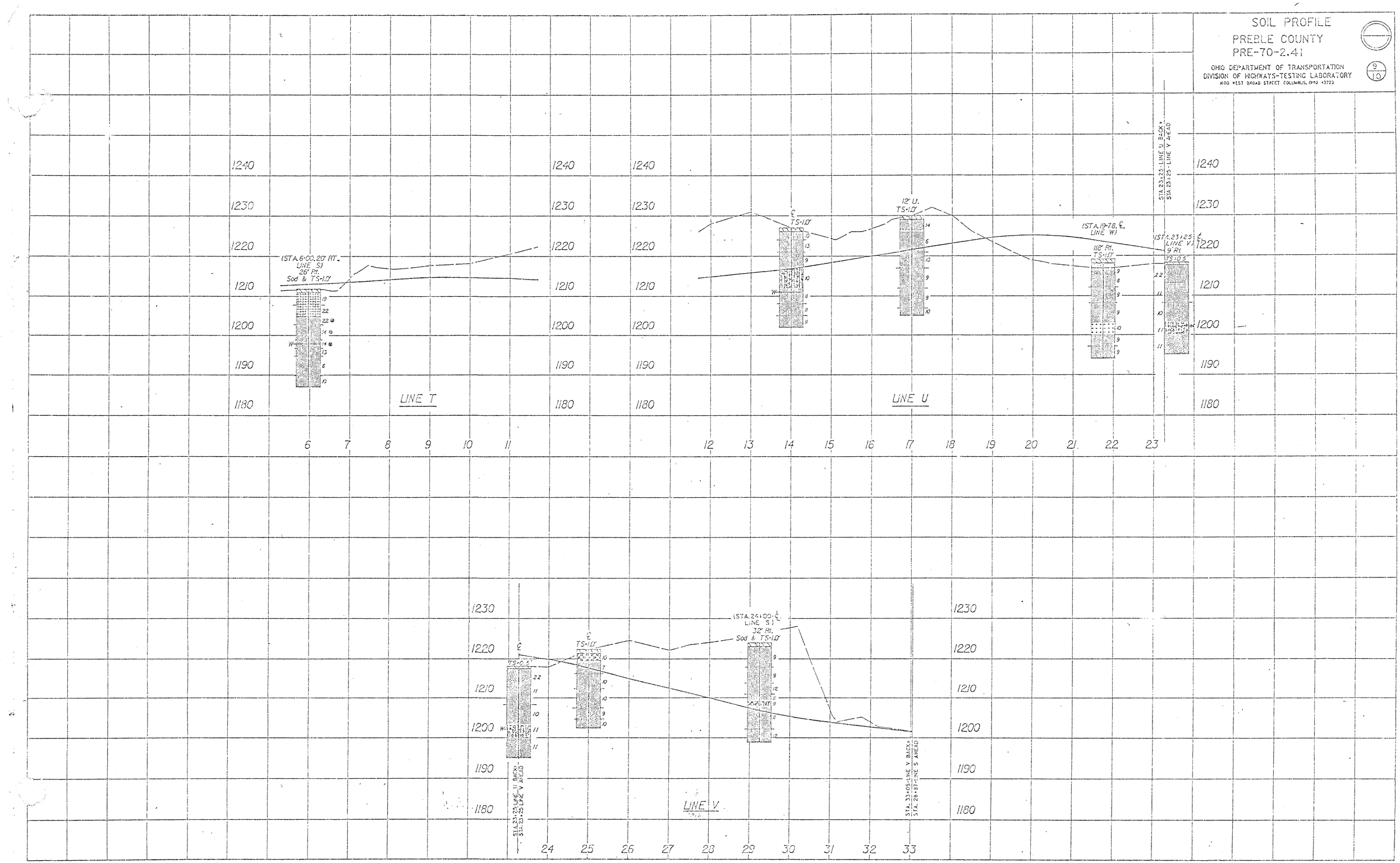

SOIL PROFILE
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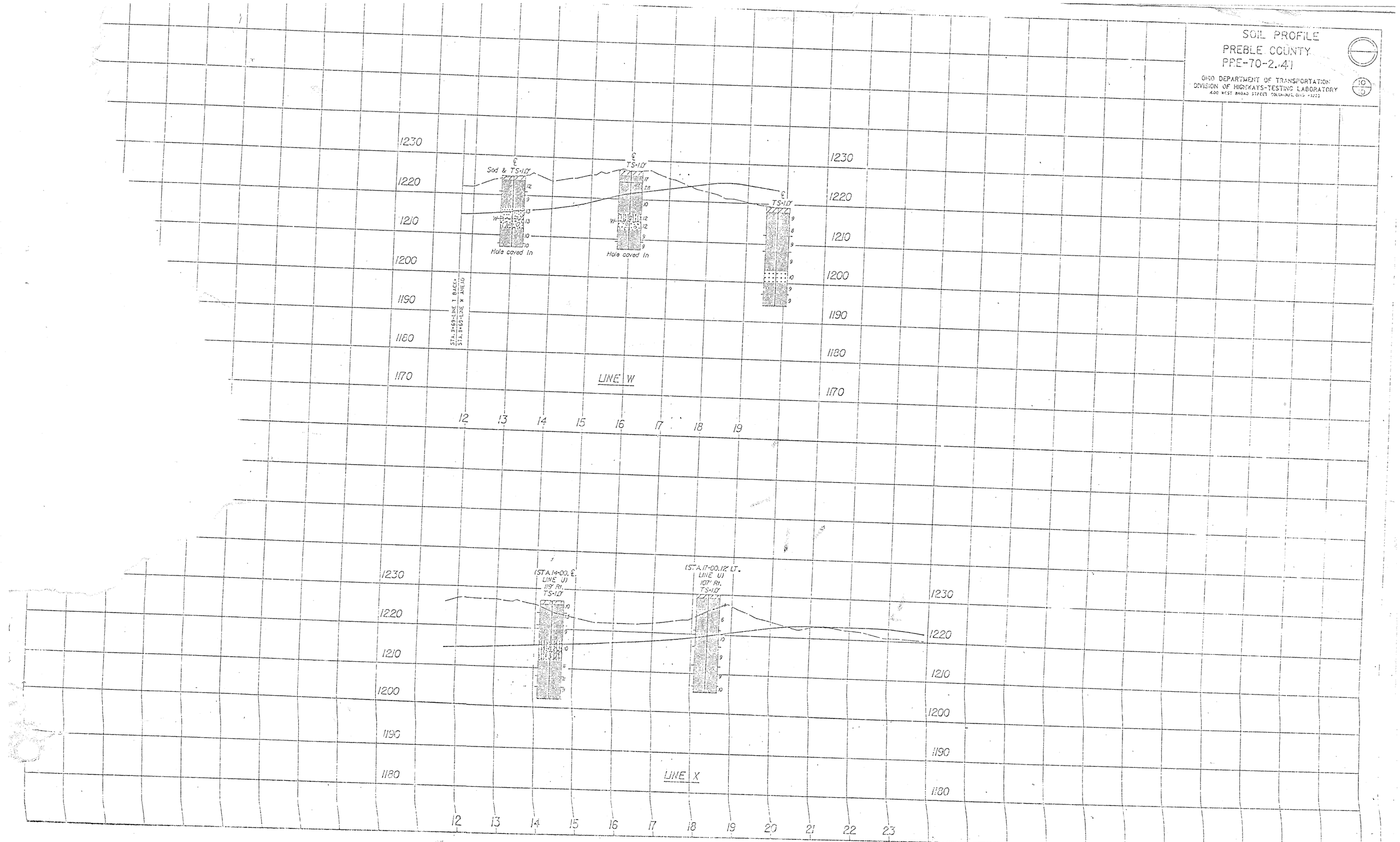
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