FHWA REGION	STATE	PROJECT	
5	OHIO	STATE	

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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
POR-224-12.38
PORTAGE COUNTY
ATWATER TOWNSHIP

POR-224-12.38

LIMITED ACCESS

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

DESIGN DESIGNATION

Current ADT (1973)	2730
Design Year ADT (1993)	4095
D.H.V.	532
D	67%
T	17%
V (Design Speed)	60 M.P.H.

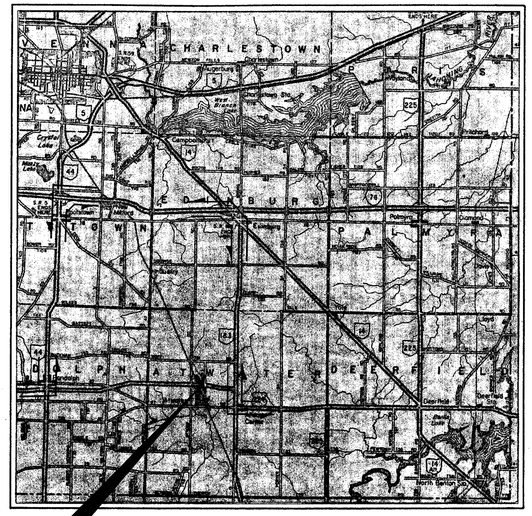
CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (existing) (proposed)
Center Line 352 353
Trees , Stumps , (to be removed)
Utility Poles: Telephone , Power , Light

Limited Access (only) LA
Right of Way (only) RW
Limited Access & Right of Way LA&RW
Existing Right of Way
Property Line (in existing fence)
Railroad
Guardrail (existing) (proposed)

INDEX OF SHEETS

TITLE SHEET 1
TYPICAL SECTIONS 2
GENERAL NOTES & CALCULATIONS 3
GENERAL SUMMARY 4
PLAN AND PROFILE 5
CROSS SECTIONS 6-15


CHARLESTOWN
EDINBURG
TALMADGE
RAVENNA
GALPHA
HIGHLAND
Cuyahoga River
Cuyahoga Lake
Reservoir
Sewage Disposal Plant
Cemetery
Fairgrounds
Airport
Golf Course
Camp
Campground
Hospital
Sanitarium
Nursing Home
Rootstown Cemetery
Ravenna Arsenal
Ravenna Arsenal Sewage Disposal Plant
Ravenna Arsenal Golf Course
Ravenna Arsenal Airport
Ravenna Arsenal Hospital
Ravenna Arsenal Cemetery
Ravenna Arsenal Reservoir
Ravenna Arsenal Camp
Ravenna Arsenal Campground
Ravenna Arsenal Sanitarium
Ravenna Arsenal Nursing Home
Ravenna Arsenal Fairgrounds
Ravenna Arsenal Cuyahoga River
Ravenna Arsenal Cuyahoga Lake

UTILITIES
Laurel Pipe Line Company
Camp Hill, Penna. 17011

TYPICAL SECTIONS

0 1 2 3 4 5 6 7 8 9 10
Scale In Feet
TYPE 451

FHWA REGION	STATE	PROJECT	
5	OHIO	STATE	

POR-224-12.38

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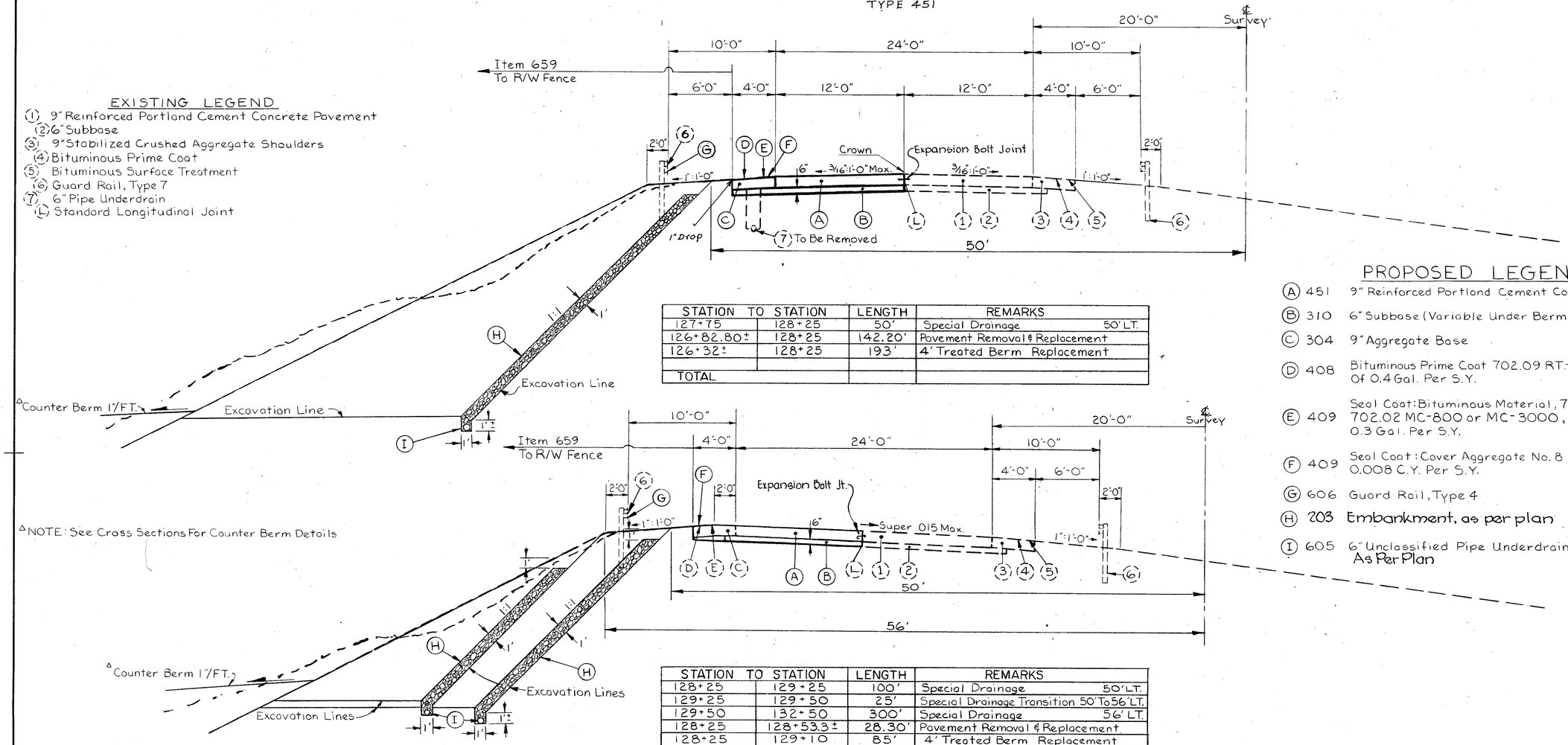
EXISTING LEGEND

(1) 9" Reinforced Portland Cement Concrete Pavement
(2) 6" Subbase
(3) 9" Stabilized Crushed Aggregate Shoulders
(4) Bituminous Prime Coat
(5) Bituminous Surface Treatment
(6) Guard Rail, Type 7
(7) 6" Pipe Underdrain
(L) Standard Longitudinal Joint



△NOTE: See Cross Sections For Counter Berm Details

STATION	TO STATION	LENGTH	REMARKS
127+75	128+25	50'	Special Drainage 50' LT.
126+82.80±	128+25	142.20'	Pavement Removal & Replacement
126+32±	128+25	193'	4' Treated Berm Replacement
TOTAL			

STATION	TO STATION	LENGTH	REMARKS
128+25	129+25	100'	Special Drainage 50' LT.
129+25	129+50	25'	Special Drainage Transition 50' To 56' LT.
129+50	132+50	300'	Special Drainage 56' LT.
128+25	128+53.3±	28.30'	Pavement Removal & Replacement.
128+25	129+10	85'	4' Treated Berm Replacement
TOTAL			

PROPOSED LEGEND

(A) 451 9" Reinforced Portland Cement Concrete Pavement
(B) 310 6" Subbase (Variable Under Berm)
(C) 304 9" Aggregate Base
(D) 408 Bituminous Prime Coat 702.09 RT.-2 or RT.-3 Applied At The Rate Of 0.4 Gal. Per S.Y.
(E) 409 Seal Coat: Bituminous Material, 702.09 RT-9 or RT-10 or 702.02 MC-800 or MC-3000, Applied At The Rate Of 0.3 Gal. Per S.Y.
(F) 409 Seal Coat: Cover Aggregate No. 8 Applied At The Rate Of 0.008 C.Y. Per S.Y.
(G) 606 Guard Rail, Type 4
(H) 203 Embankment, as per plan
(I) 605 6" Unclassified Pipe Underdrain, 707.01 Type III or 707.12 As Per Plan

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

TYPICAL SECTIONS

GENERAL NOTES

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 150 SQ. FT. OF FLOOR SPACE AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, HE SHALL PROVIDE AND MAINTAIN SANITARY PROVISIONS AS PER 107.06. ALL THE ABOVE IS INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS ON THIS PLAN INDICATE SPECIFIC WIDTHS AND DEPTHS OF PROPOSED BENCHING OF THE EMBANKMENT FOUNDATION IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED AND ALL OTHER SLOPED FOUNDATION AREAS SHALL BE BENCHED AS SET FORTH IN 203.09. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED BY THE PROVISIONS OF 203.09

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN LINES TEN (10) FEET OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS-SECTIONS, OR TO THE LIMITED ACCESS FENCE IF SUCH FENCE IS LESS THAN TEN (10) FEET FROM THE WORK LIMITS.

EMBANKMENT CONSTRUCTION

CONSTRUCT 36" DITCH ELIMINATION PIPE. EXCAVATE THE EXISTING EMBANKMENT TO THE LINES SHOWN ON THE CROSS-SECTIONS USING THE SUITABLE MATERIAL FOR PARTIAL CONSTRUCTION OF THE COUNTER BERM. PLACE THE 6" PERFORATED CONDUIT AND THE 8" OUTLET CONDUIT. PLACE THE SPECIAL AGGREGATE DRAIN. REBUILD THE EMBANKMENT TO THE FINISHED PLAN LINES USING SUITABLE MATERIAL AS PER ITEM 203.

EMBANKMENT, AS PER PLAN

A cut-off drain, using granular material shall be provided at locations specified on these plans. Material furnished for this item shall be as defined in 203.02 except that size No. 8 aggregate shall be used. The granular material shall be placed and compacted as directed by the Engineer.

GUARD RAIL TYPE 4

Posts and rail elements used for type 4 guard rail shall be in accordance with Standard Drawing GR-2B.

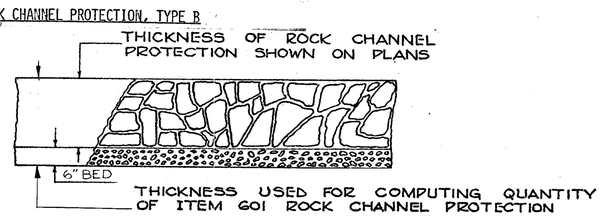
CONSTRUCTION PLANS

REFERENCE IS HEREBY MADE TO THE ORIGINAL PLAN FOR CONSTRUCTION OF U.S.R. 224 COVERING THE AREA OF THIS PROPOSED IMPROVEMENT (POR-224-9.58) A COPY OF THESE PLANS IS ON FILE IN THE DISTRICT FOUR OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, RAVENNA, OHIO.

CONCRETE PAVEMENT JOINTS

WHERE PAVEMENT JOINTS ARE REQUIRED AS SHOWN ON THE PLAN, THEY SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER. REFER TO STANDARD CONSTRUCTION DRAWINGS BP-3 AND BP-4 FOR ADDITIONAL DETAILS.

ROCK CHANNEL PROTECTION, TYPE B



PROTECTION OF ABUTTING PAVEMENT AND PROPERTY

THE CONTRACTOR SHALL EXERCISE DUE CAUTION NOT TO DAMAGE ABUTTING PAVEMENT OR OTHER PROPERTY. THE CONTRACTOR'S ATTENTION IS CALLED TO SECTION 107.12 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

DISPOSAL OF CONCRETE PAVEMENT

ALL MATERIAL REMOVED SHALL BE DISPOSED BY THE CONTRACTOR OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY UNLESS DIRECTED BY THE ENGINEER TO BE PLACED IN AREAS WITHIN THE RIGHT-OF-WAY DESIGNATED BY THE ENGINEER. COST TO BE INCLUDED IN ITEM 202, PAVEMENT REMOVED, AS PER PLAN.

ITEM 451 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

THE EXISTING TRANSVERSE JOINTS SHALL BE EXTENDED INTO THE HALF WIDTH REPLACEMENT AREA AS DIRECTED BY THE ENGINEER. COST OF THE DOWEL ASSEMBLIES SHALL BE INCLUDED IN THE PAYMENT FOR ITEM 451.

ITEM 202, PAVEMENT REMOVED, AS PER PLAN

ALL CONCRETE REMOVAL MUST BE SAWED THE FULL DEPTH OF THE EXISTING CONCRETE TO PROVIDE A VERTICAL FACE, AVOID FRACTURING THE ADJOINING PAVEMENT, MINIMIZE SPALLING ON THE BOTTOM OF THE PAVEMENT AND TO FACILITATE REMOVAL. ADDITIONAL SAW CUTS MAY BE REQUIRED TO FACILITATE REMOVAL. ALL LOOSE AND BROKEN MATERIAL MUST BE REMOVED. THE BARS OR HOOK BOLTS, WHEN REMOVING ADJACENT TO A LONGITUDINAL JOINT, SHALL BE CUT OFF FLUSH WITH THE VERTICAL FACE OF THE REMAINING SLAB. EXISTING GRANULAR SUBBASE SHALL BE REMOVED. COST OF ALL THE ABOVE SHALL BE INCLUDED IN ITEM 202, PAVEMENT REMOVED, AS PER PLAN.

CALCULATIONS

ITEM 451 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
Sta. 126+82.8 to Sta. 128+53.3
170.5 L.F. X 12' ÷ 9 = 227.3 S.Y. — 228 S.Y.

ITEM 310 SUBBASE
Sta. 126+82.8 to Sta. 128+53.3 (Under Pavement @ 6")
170.5 L.F. X 12' X 0.5' ÷ 27 = 37.9 C.Y.
Sta. 126+32 to Sta. 129+10
278 L.F. X 4' X 0.42' (Av.) ÷ 27 = 17.3 C.Y.
TOTAL = 55.2 C.Y. — 56 C.Y.

ITEM 304 AGGREGATE BASE, 703.04
Sta. 126+32 to Sta. 129+10
278 L.F. X 4' X 0.75' ÷ 27 = 30.9 C.Y. — 31 C.Y.

ITEM 408 BITUMINOUS PRIME COAT
Sta. 126+32 to Sta. 129+10
278 L.F. X 4' ÷ 9 X 0.4 = 49.4 Gal. — 50 Gal.

ITEM 409 SEAL COAT: BITUMINOUS MATERIAL
Sta. 126+32 to Sta. 129+10
278 L.F. X 4' ÷ 9 X 0.3 = 37.1 Gal. — 38 Gal.

ITEM 409 SEAL COAT: No. 8 AGGREGATE
Sta. 126+32 to Sta. 129+10
278 L.F. X 4' ÷ 9 X 0.008 = 0.98 C.Y. — 1 C.Y.

ITEM 659 COMMERCIAL FERTILIZER (12-12-12)
FROM SHEET No. 6 Seeding And Mulching = 6094 S.Y.
6094 S.Y. X 9' X 20# ÷ 1000 ÷ 2000 = 0.548 Ton — 0.55 Ton

ITEM 659 AGRICULTURAL LIMING
Seeding and Mulching = 6094 S.Y.
6094 S.Y. X 9' X 100# ÷ 1000 ÷ 2000 = 2.742 Tons — 2.74 Tons

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

GENERAL SUMMARY

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

FHWA REGION	STATE	PROJECT	
5	OHIO	STATE	

POR-224-12.38

ITEM	SHEET NUMBER 3	5	6	ITEM	QUANT.	UNIT	DESCRIPTION
							ROADWAY
201				201	LUMP	LUMP	Clearing and Grubbing
202		286		202	286	L.F.	Pipe Removed, 24" and Under
202		228		202	228	S.Y.	Pavement Removed, As per Plan
202		225		202	225	L.F.	Paved Gutter Removed
202		237.5		202	237.5	L.F.	Guard Rail Removed for Reuse
203			9897	203	9897	C.Y.	Excavation not Including Embankment Construction
203			11986	203	11986	C.Y.	Embankment
203			708	203	708	C.Y.	Embankment, as per plan
606		237.5		606	237.5	L.F.	Guard Rail Rebuilt, Type 4
659			6094	659	6094	S.Y.	Seeding and Mulching
659	0.55			659	0.55	Ton	Commercial Fertilizer (12-12-12)
659	2.74			659	2.74	Tons	Agricultural Liming
							DRAINAGE
601		4		601	4	S.Y.	Riprap, 6" Reinforced Concrete Slab
601		6		601	6	C.Y.	Rock Channel Protection, Type B
602		1.5		602	1.5	C.Y.	Concrete Masonry
603		67		603	67	L.F.	8" Conduit, Type F
603		360		603	360	L.F.	36" Conduit, Type C, 707.13
605		480		605	480	L.F.	6" Unclassified Pipe Underdrain, 707.01 Type III or 707.12, as per plan
							PAVEMENT
304	31			304	31	C.Y.	Aggregate Base
310	56			310	56	C.Y.	Subbase
408	50			408	50	Gal.	Bituminous Prime Coat: 702.09 RT-2 or RT-3
409	38			409	38	Gal.	Seal Coat: Bituminous Material, 702.09 RT-9 or RT-10 or 702.02 MC-800 or MC-3000
409	1			409	1	C.Y.	Seal Coat: Cover Aggregate No.8
451	228			451	228	S.Y.	9" Reinforced Portland Cement Concrete Pavement
619	LUMP			619	LUMP	LUMP	Field Office
614				614	LUMP	LUMP	Maintaining Traffic
623				623	LUMP	LUMP	Construction Layout Stakes

FHWA REGION	STATE	PROJECT	
5	OHIO	STATE	

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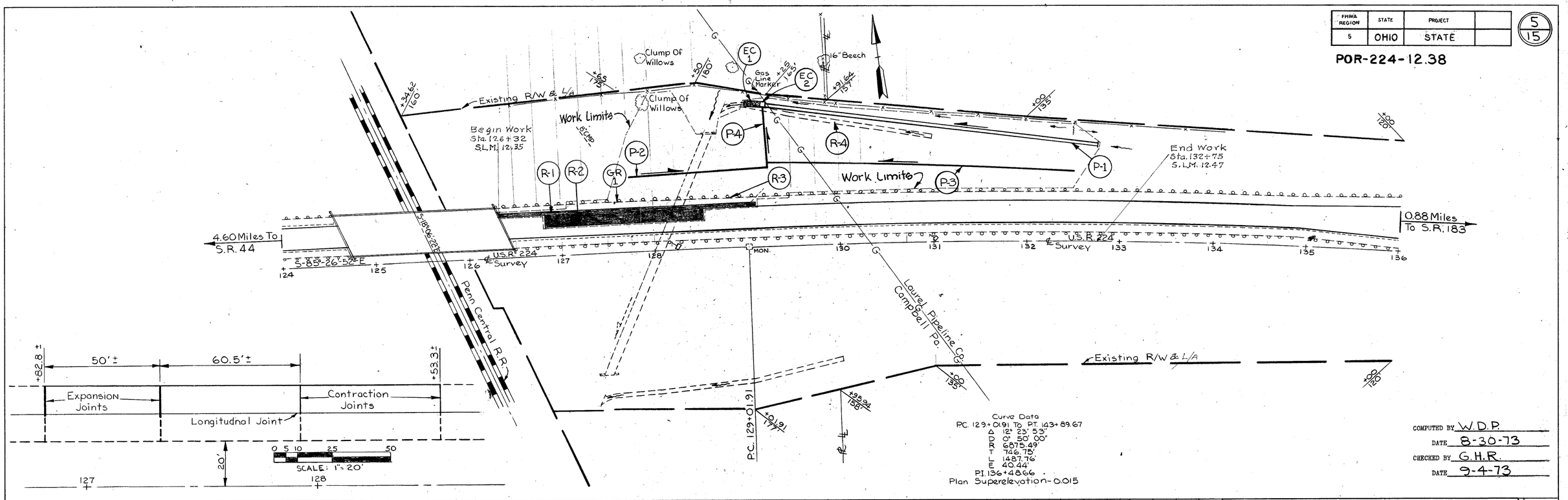
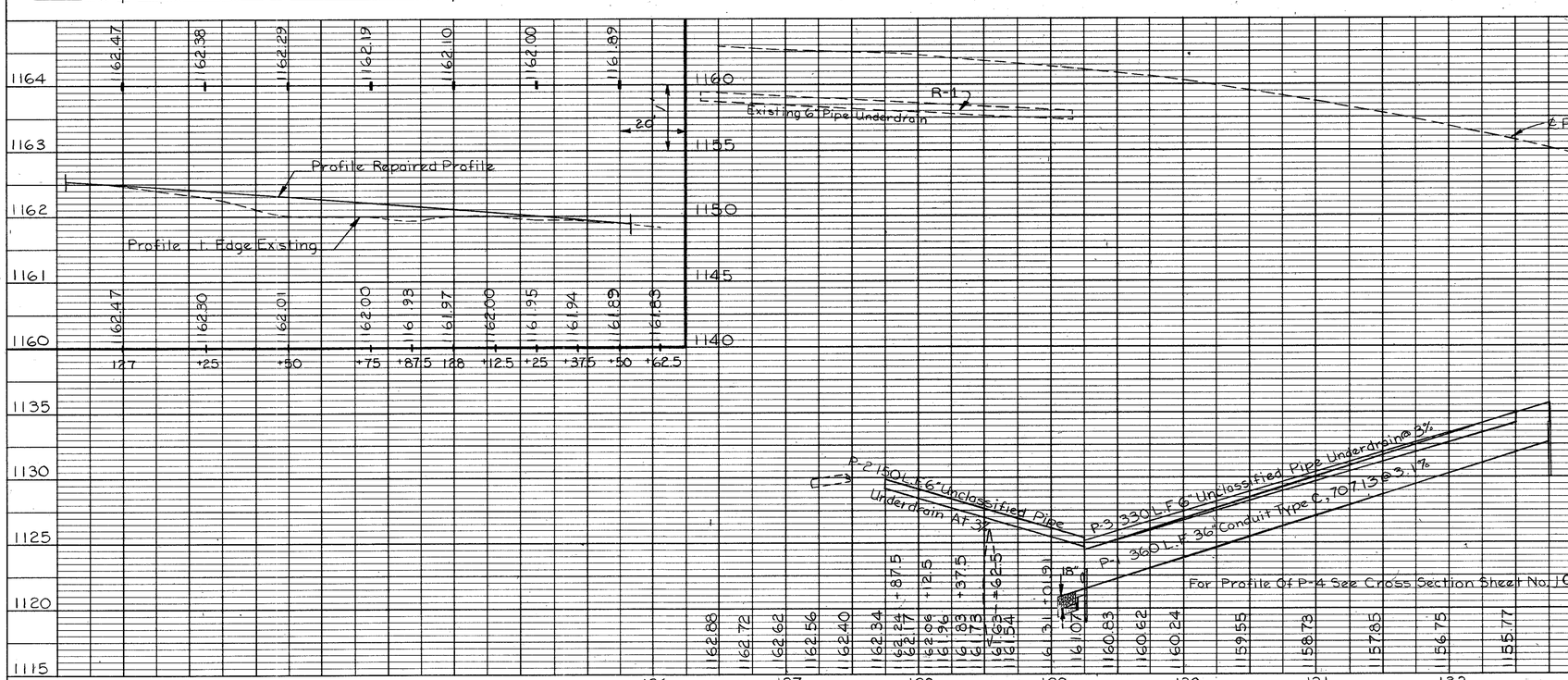
POR-224-12.38



COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73



202 REMOVAL QUANTITIES

MARK	STATION FROM	STATION TO	SIDE	Pipe Rem'd 24"ϕ Under L.F.	Pav't Rem'd S.Y.	G. Rail Rem'd For Reuse L.F.	Paved Gutter Rem'd L.F.
R-1	126+37	129+16	LT.	286			
R-2	126+82.8	128+53.3±	LT.		228		
R-3	127+07	129+44.5	LT			237.5	
R-4	128+75	131+00	LT.				225
TOTALS				286	228	237.5	225

DRAINAGE & EROSION CONTROL

MARK	STATION FROM	STATION TO	SIDE	605 6" Unclass Underdrain L.F.	603 8" TYPE F L.F.	603 36" TYPE C 707.13 L.F.	603 8"×6" TEE TYPE F	603 6"×8" 90° ELBO TYPE F	602 Conc. Masonry C.Y.	601 6" Rein Conc. Slab S.Y.	601 Rock Channel Protect Type B S.Y.
P-1	129+25	132+75	LT.			360			1.52		
P-2	127+75	129+25	LT.	150				1			
P-3	129+25	132+50	LT.	330			1				
P-4	129+23	129+25	LT.		67						
EC-2	129+20	129+25	LT.							3.6	
EC-1	129+05	129+20	LT.								6
TOTALS				480	67	360			1.52	3.6	6

606 GUARD RAIL

MARK	STATION FROM	STATION TO	SIDE	G.R. REBUILT TYPE 4 L.F.		
GR-1	127+07	129+44.5	LT.	237.5		
TOTALS				237.5		

PLAN — SURVEYED / PLOTTED / NOTE BOOK / ALIGNMENT CHECKED / RT. OF WAY CHECKED / No.

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / B. M.'S NOTED / STRUCTURE NOTATIONS CHECKED / No.

PLATE 1—PLAN PROFILE O. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

LINE SHEET STA. 124+00 TO STA. 136+00

FHWA REGION		STATE	6
5			15

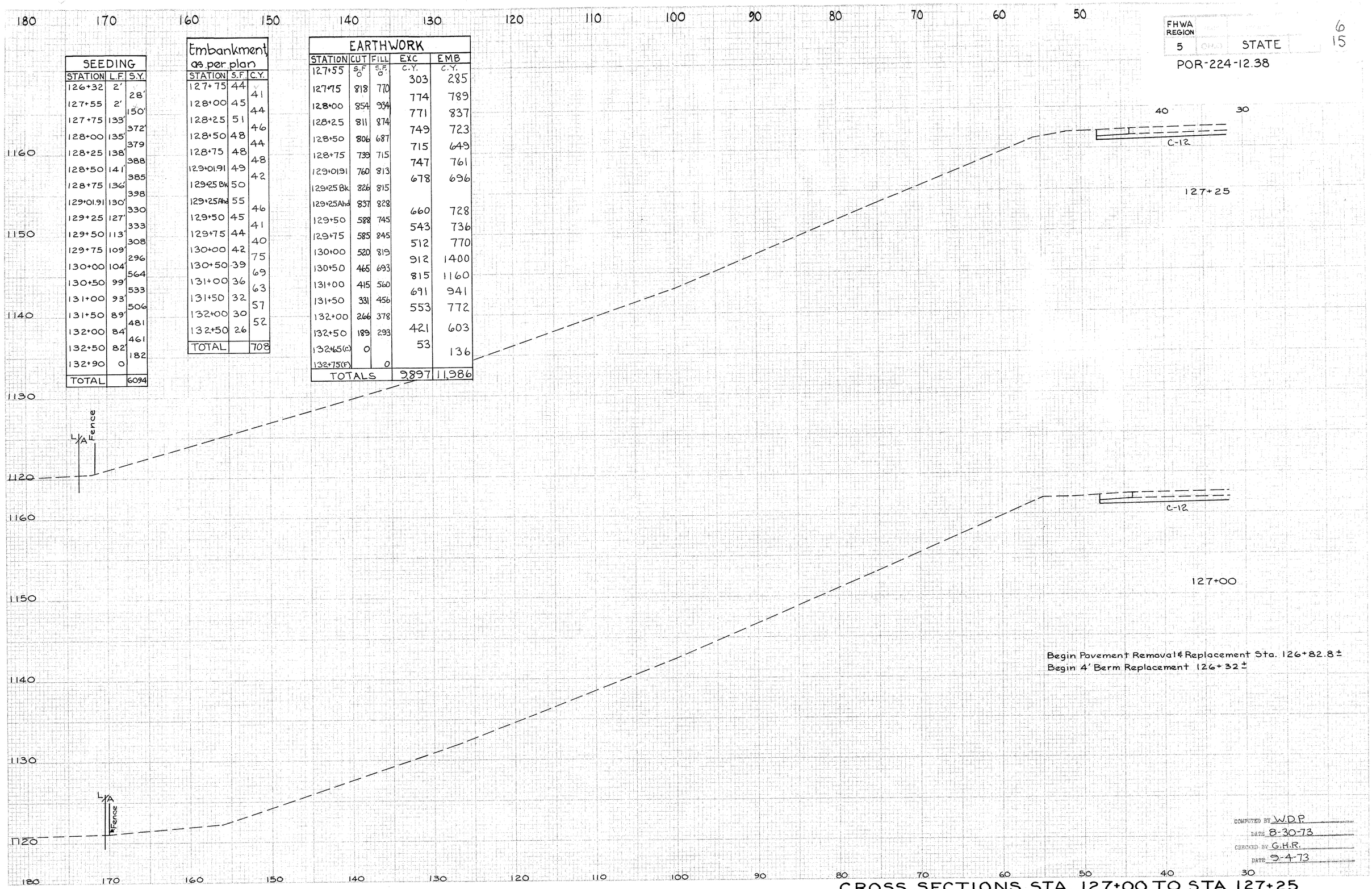
POR-224-12.38

CROSS SECTION SHEET			
	BY	DATE	CHECKED BY	DATE
SURVEYED	Thomas	7-31-73		
PLOTTED	L.D.P.	8-2-73	G.H.R.	8-8-73
TEMPLATE				
INKED				
END AREAS	G.H.R.	8-23-73		
	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME TOTALS	W.D.P.	8-30-73	G.H.R.	9-4-73

SEEDING		
STATION	L.F.	S.Y.
126+32	2'	28'
127+55	2'	150'
127+75	133'	372'
128+00	135'	379
128+25	138'	388
128+50	141'	385
128+75	136'	398
129+01.91	130'	330
129+25	127'	333
129+50	113'	308
129+75	109'	296
130+00	104'	564
130+50	99'	533
131+00	93'	506
131+50	89'	481
132+00	84'	461
132+50	82'	182
132+90	0	
TOTAL		6094

Embankment, as per plan		
STATION	S.F.	C.Y.
127+75	44	41
128+00	45	44
128+25	51	46
128+50	48	44
128+75	48	48
129+01.91	49	42
129+25 Bk	50	
129+25 Ahd	55	46
129+50	45	41
129+75	44	40
130+00	42	75
130+50	39	69
131+00	36	63
131+50	32	57
132+00	30	52
132+50	26	
TOTAL		708

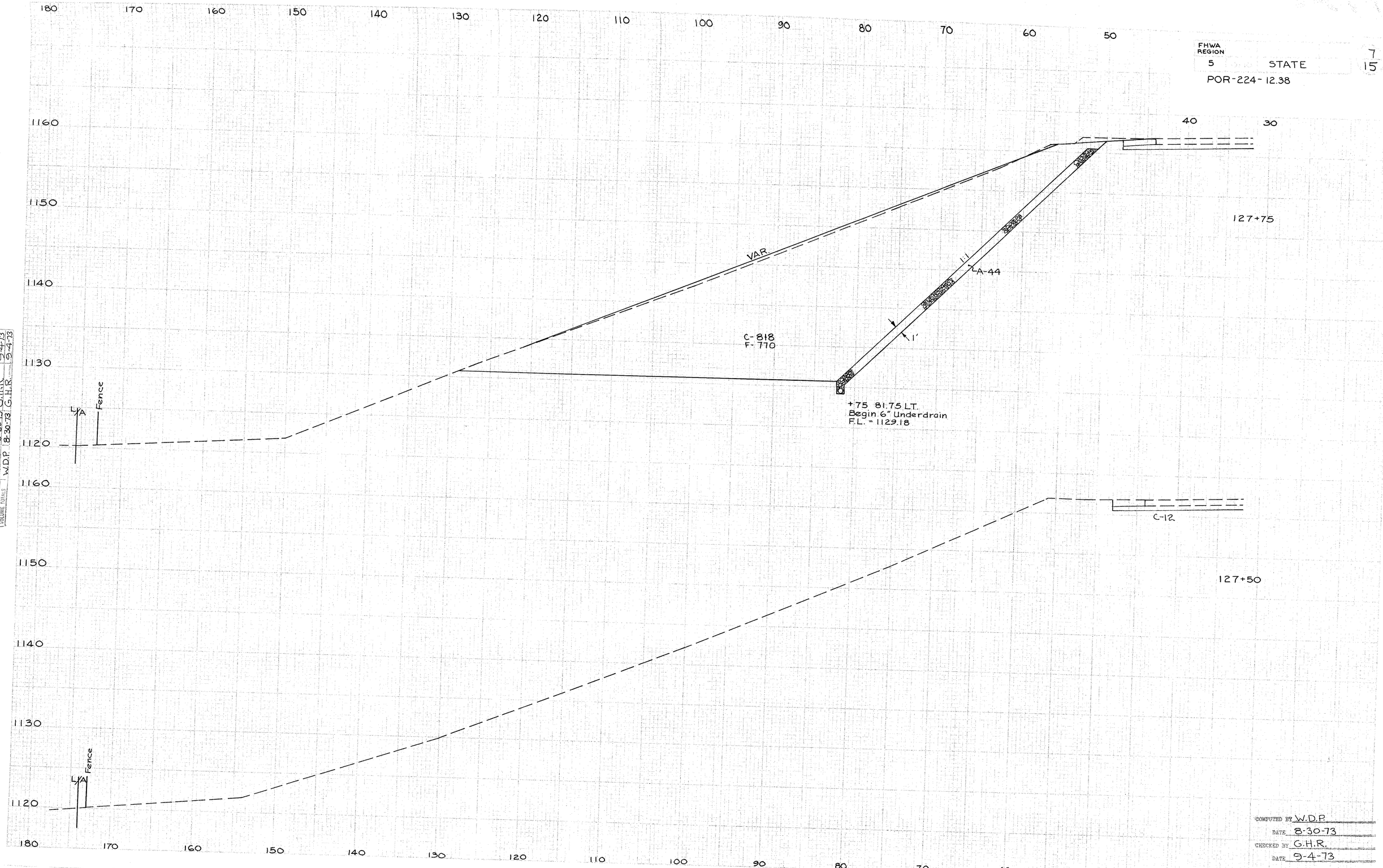
EARTHWORK				
STATION	CUT S.F.	FILL S.F.	EXC C.Y.	EMB C.Y.
127+55	0	0	303	285
127+75	818	770	774	789
128+00	854	934	771	837
128+25	811	874	749	723
128+50	806	687	715	649
128+75	739	715	747	761
129+01.91	760	813	678	696
129+25 Bk	826	815		
129+25 Ahd	837	828	660	728
129+50	588	745	543	736
129+75	585	845	512	770
130+00	520	819	912	1400
130+50	465	693	815	1160
131+00	415	560	691	941
131+50	331	456	553	772
132+00	266	378	421	603
132+50	189	293	53	136
132+65(C)	0			
132+75(F)		0		
TOTALS			9,897	11,986



Begin Pavement Removal & Replacement Sta. 126+82.8 ±
Begin 4' Berm Replacement 126+32 ±

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

CROSS SECTIONS STA. 127+00 TO STA. 127+25

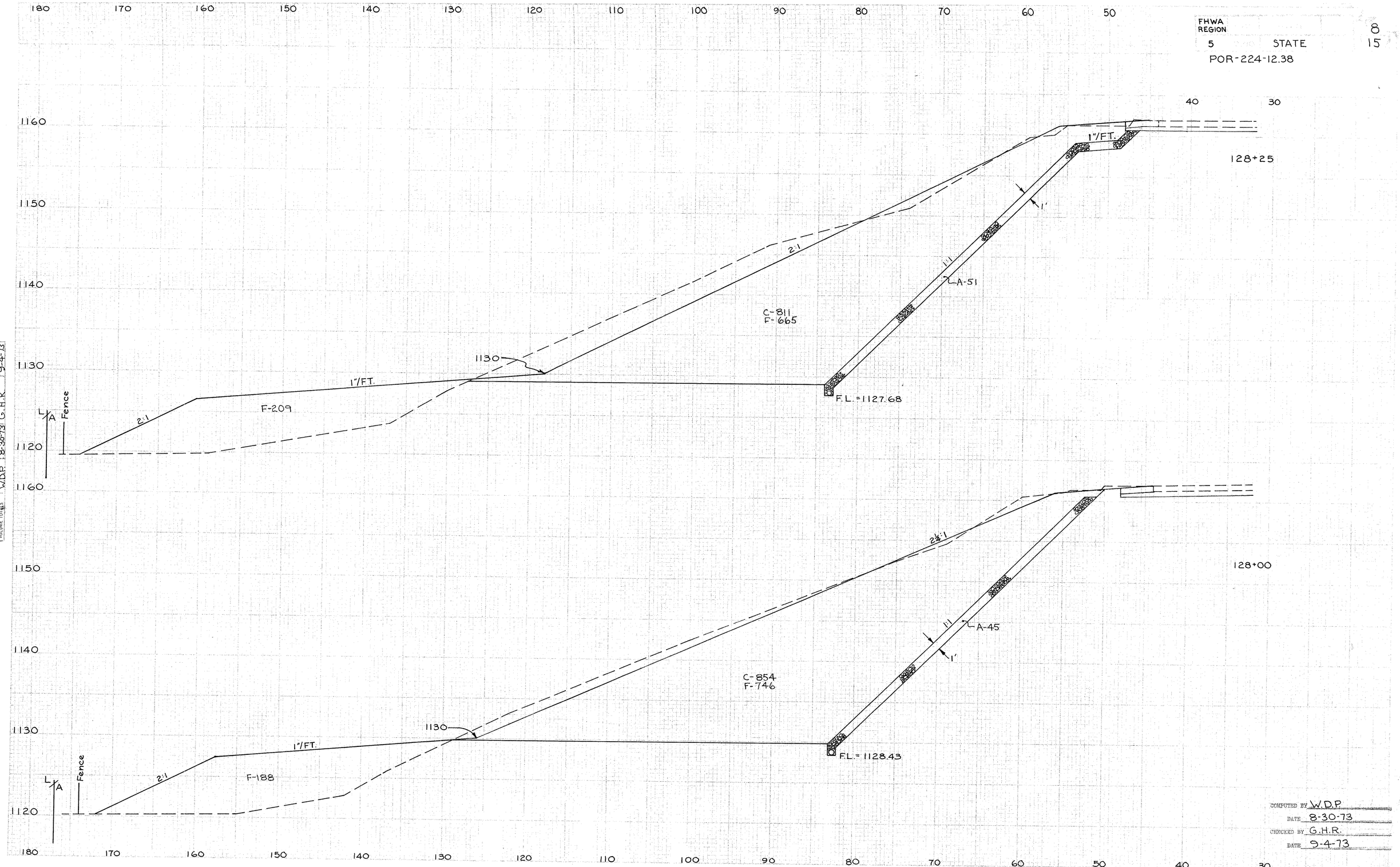


	BY	DATE	CHECKED BY	DATE
SURVEYED	Thompson			
PLOTTED	W.D.P.	7-31-73		
TEMPLATE	W.D.P.	8-2-73	G.H.R.	8-7-73
INKED	G.H.R.	8-23-73		
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME FORMS	W.D.P.	8-30-73	G.H.R.	9-4-73

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

FHWA REGION 5 STATE

POR-224-12.38



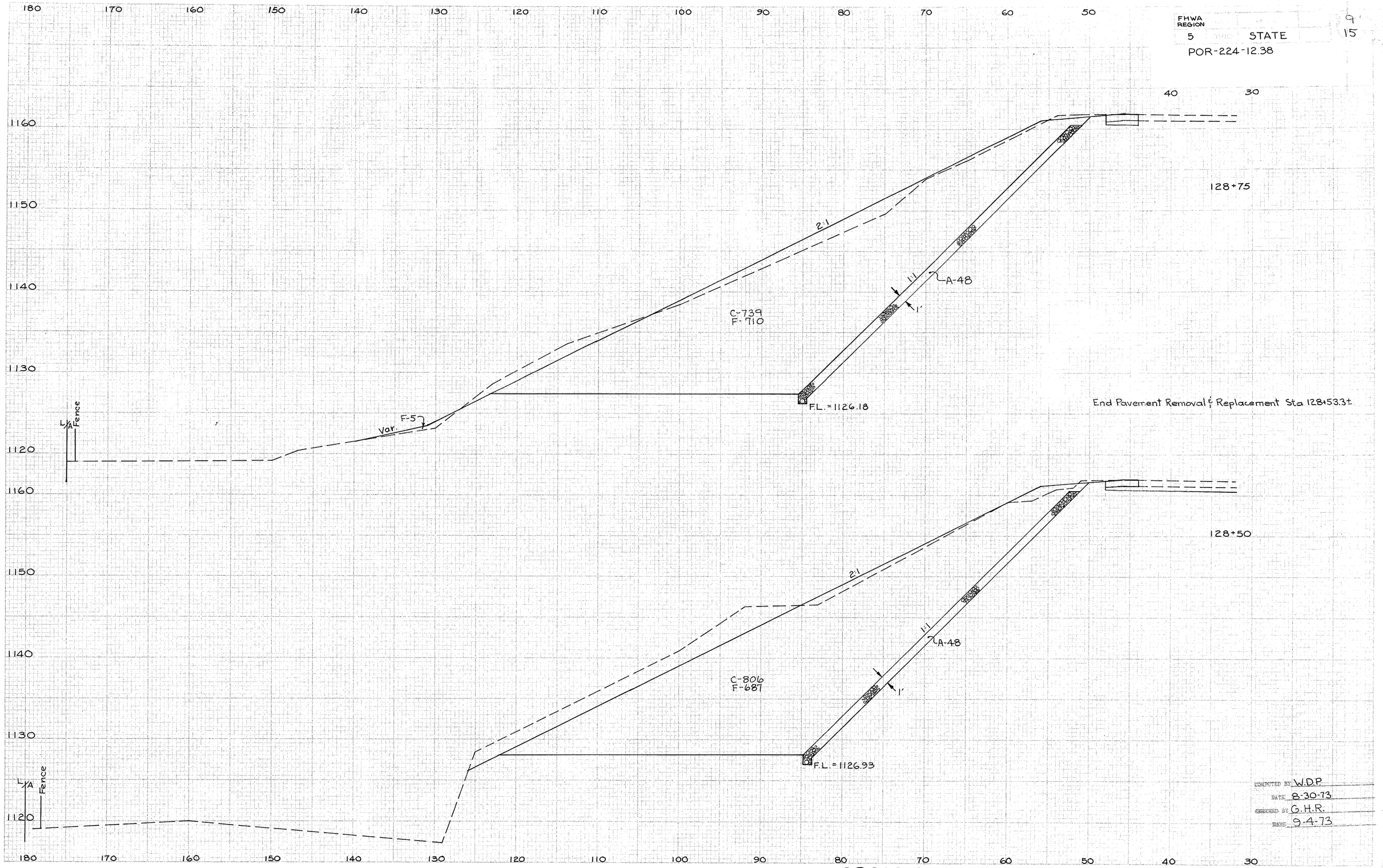
CROSS SECTION SHEET				
	BY	DATE	CHECKED BY	DATE
SURVEYED	Thomas	7-5-73		
PLOTTED	W.D.P.	8/7/73	G.H.R.	8-7-73
TEMPLATE				
INKED	G.H.R.	8-23-73		
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME TOTALS	W.D.P.	8-30-73	G.H.R.	9-4-73

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

CROSS SECTIONS STA. 128+00 TO STA. 128+25

FHWA REGION 5 STATE

POR-224-12.38



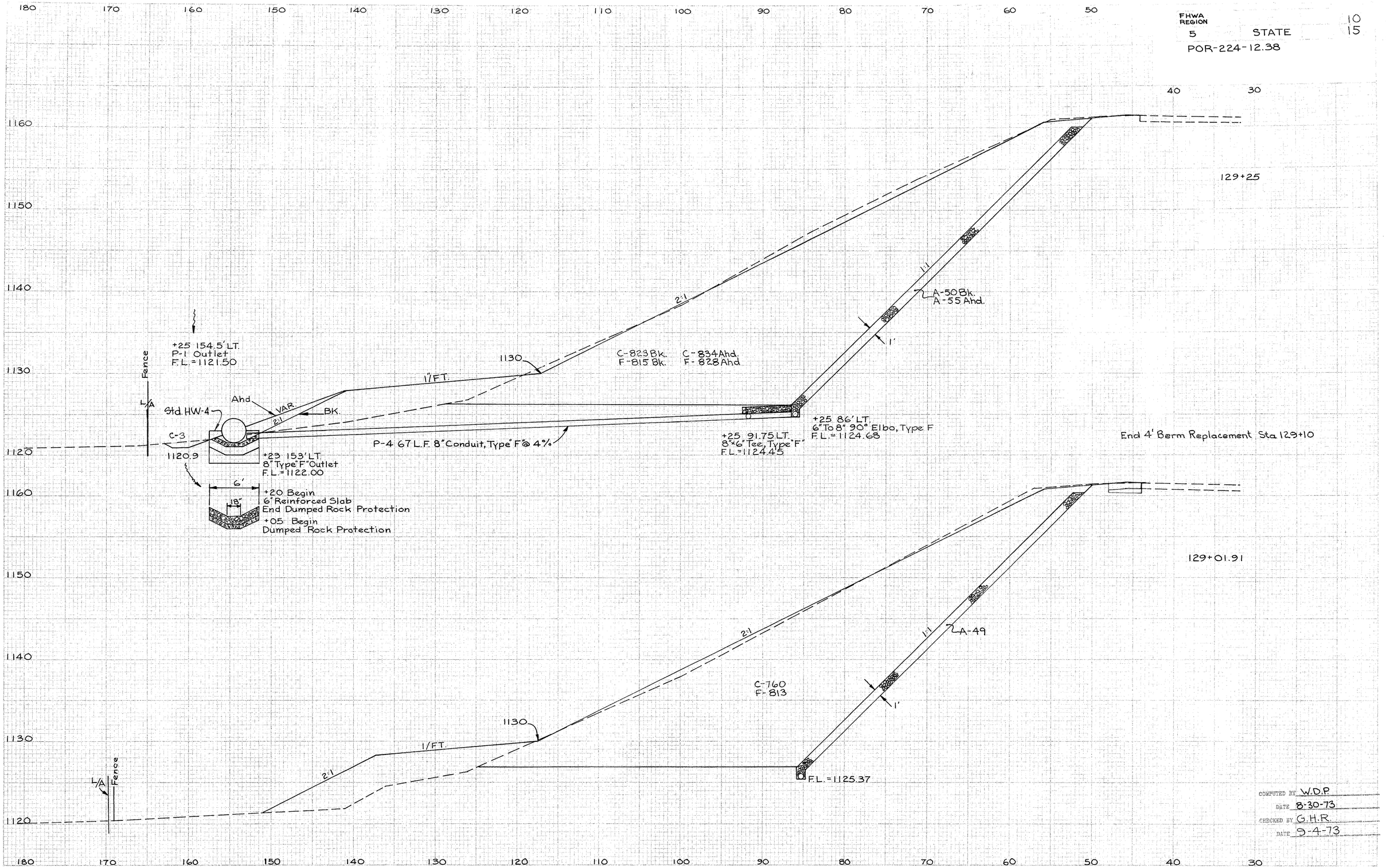
CROSS SECTION SHEET				
	BY	DATE	CHECKED BY	DATE
SURVEYED	Thomas	7-31-73		
PLOTTED	W.D.P.	8-7-73	G.H.R.	8-7-73
TEMPLATE				
INKED	G.H.R.	8-23-73		
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME TOTALS	W.D.P.	8-30-73	G.H.R.	9-4-73

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

CROSS SECTIONS STA. 128+50 TO STA. 128+75

FHWA REGION 5 STATE 10 15

POR-224-12.38



CROSS SECTION SHEET			
	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED	Thomas	7-31-73		
TEMPLATE	W.D.P.	8-7-73	G.H.R.	8-7-73
INKED				
END AREAS	G.H.R.	8-24-73		
VOLUME TOTALS	W.D.P.	8-30-73	G.H.R.	9-4-73
	W.D.P.	8-30-73	G.H.R.	9-4-73

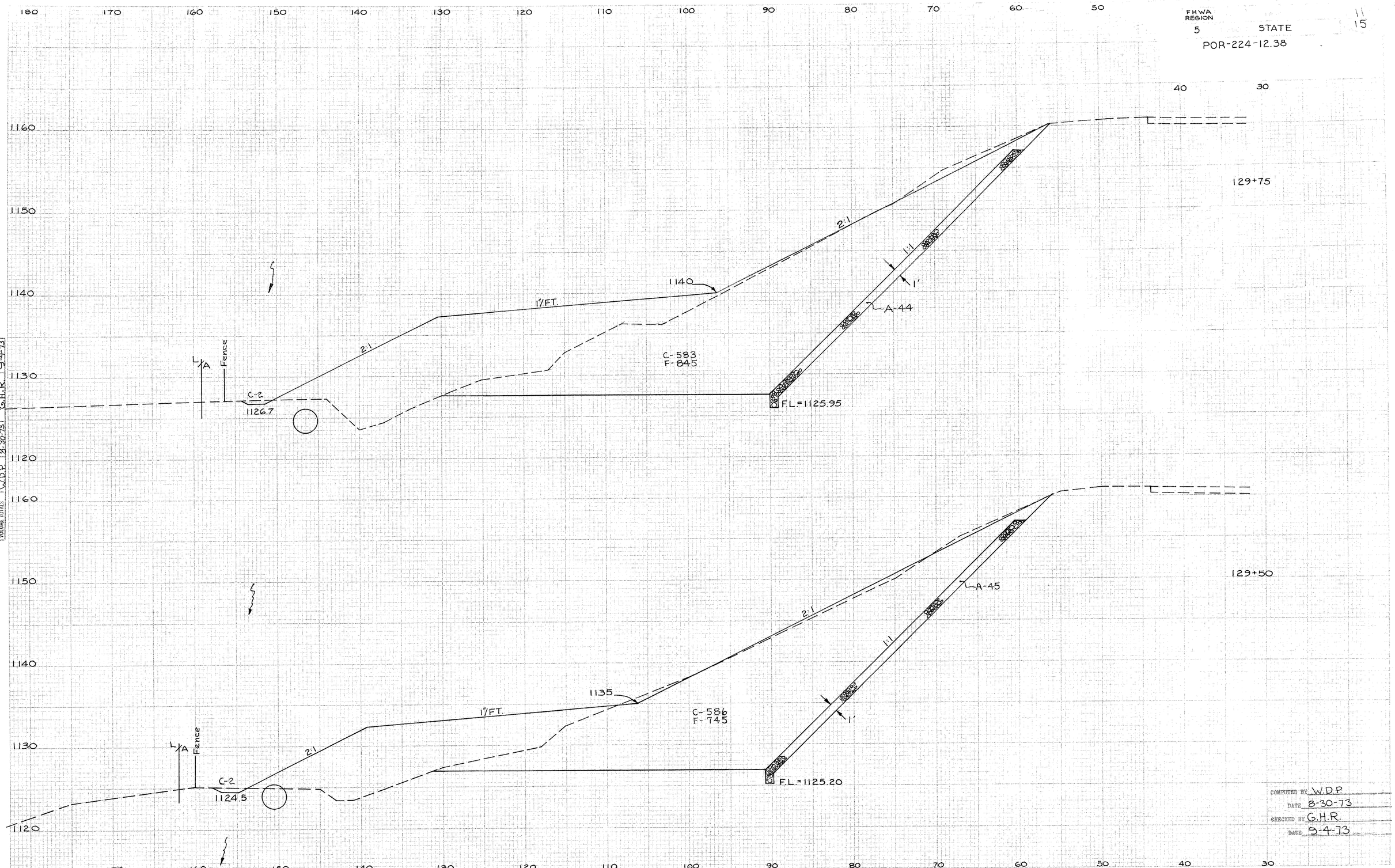
COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

CROSS SECTIONS STA. 129+01.91 TO STA. 129+25

FHWA REGION 5 STATE

POR-224-12.38

11
15



CROSS SECTION SHEET				
	BY	DATE	CHECKED BY	DATE
SURVEYED	Thomas	7-31-73		
PLOTTED	W.D.P.	8-7-73	G.H.R.	8-7-73
TEMPLATE				
INKED	G.H.R.	8/23/73		
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME TOTALS	W.D.P.	8-30-73	G.H.R.	9-4-73

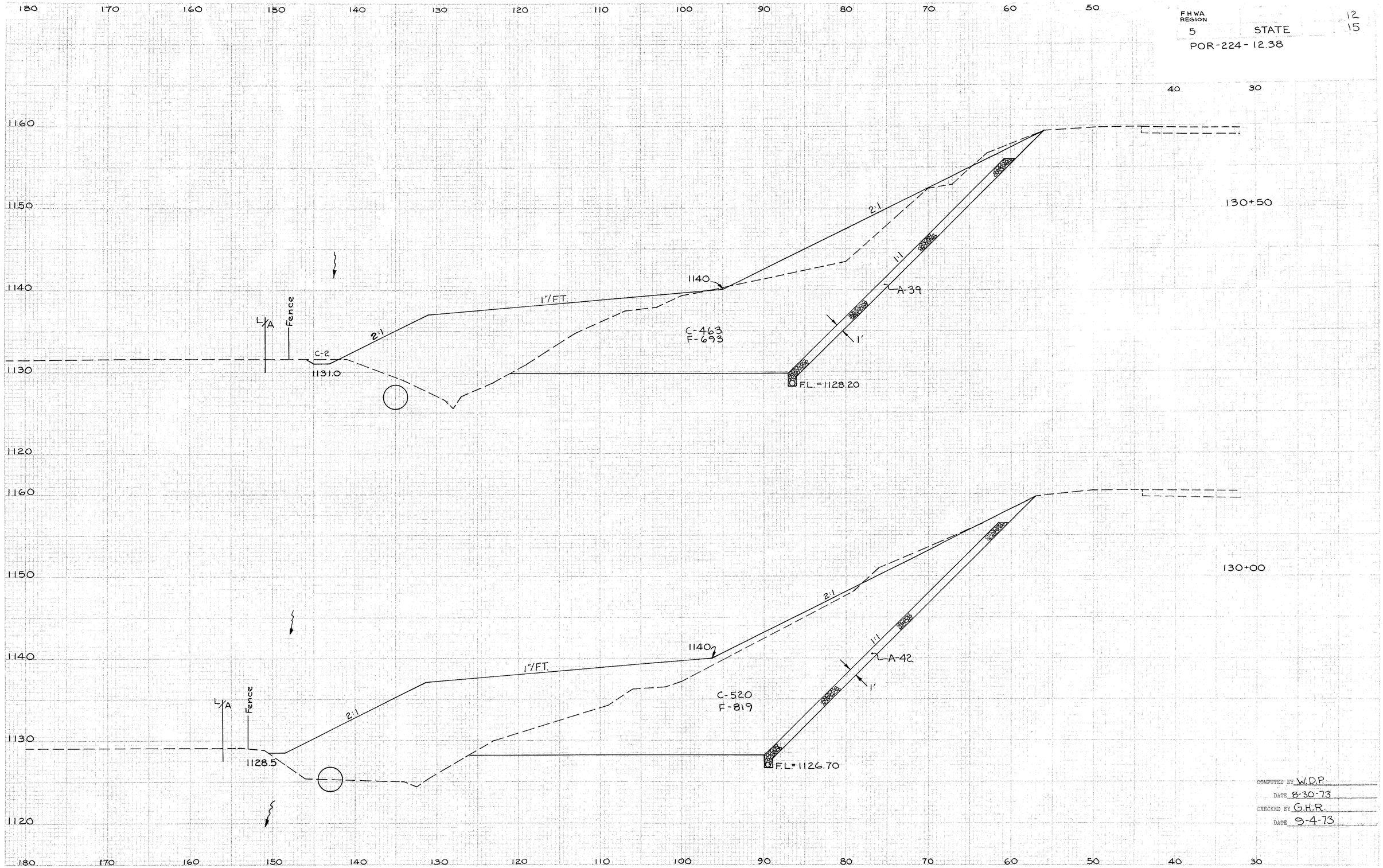
COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

CROSS SECTIONS STA. 129+50 TO STA. 129+75

FHWA REGION 5 STATE

POR-224-12.38

12
15



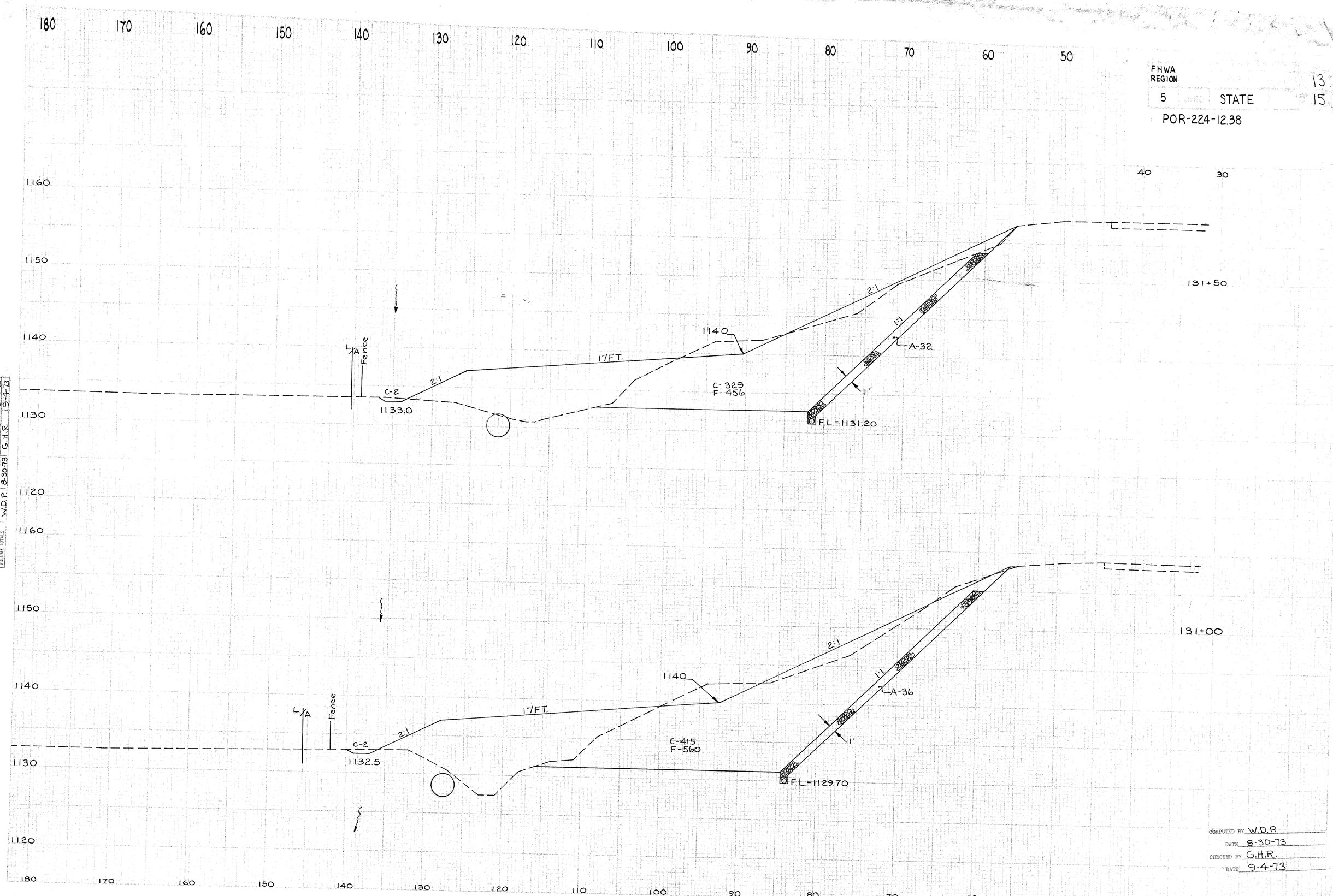
CROSS SECTION SHEET				
	BY	DATE	CHECKED BY	DATE
SURVEYED	Thomas	7-31-73	G.H.R.	8-8-73
PLOTTED	W.D.P.	8-8-73		
TEMPLATE				
LINKED	G.H.R.	8/29/73	G.H.R.	9-4-73
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME DETAILS	W.D.P.	8-30-73	G.H.R.	9-4-73

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

CROSS SECTIONS STA. 130+00 TO STA. 130+50

FHWA REGION			
5		STATE	13 / 15

POR-224-12.38



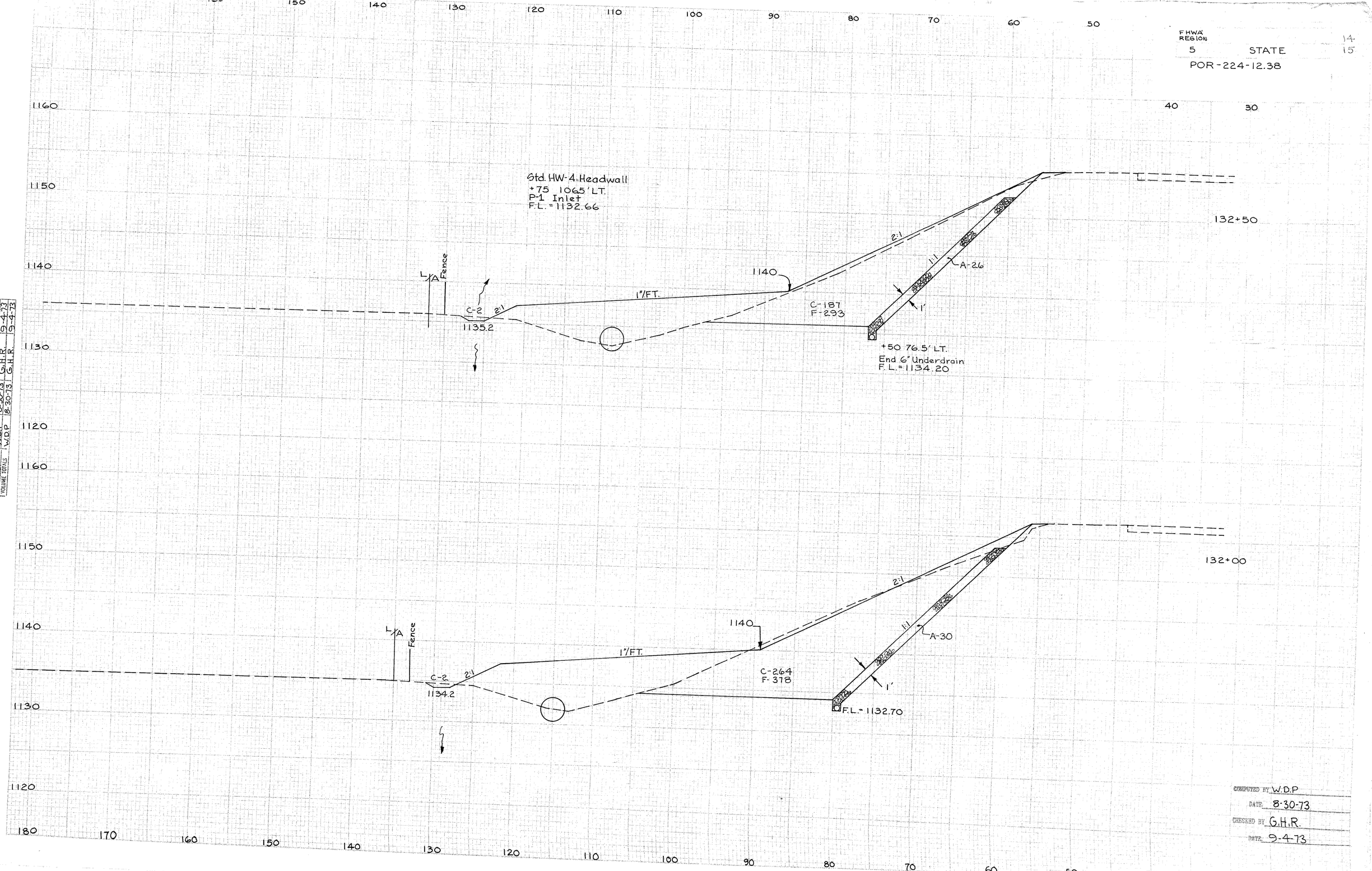
CROSS SECTION SHEET				
	BY	DATE	CHECKED BY	DATE
SURVEYED	Thomas	7-31-73		
PLOTTED	W.D.P.	8-9-73	G.H.R.	8-8-73
TEMPLATE				
PLANIMETERED	G.H.R.	8/29/73		
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME NOTES	W.D.P.	8-30-73	G.H.R.	9-4-73

COMPUTED BY W.D.P.
DATE 8-30-73
CHECKED BY G.H.R.
DATE 9-4-73

FHWA REGION 5 STATE

POR-224-12.38

14-15



CROSS SECTION SHEET				
	BY	DATE	CHECKED BY	DATE
SURVEYED	Horton	8-7-73		
PLOTTED	L.D.P.	8-8-73	G.H.R.	8-8-73
TEMPLATE				
INKED	G.H.R.	8/29/73		
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME TOTALS	W.D.P.	8-30-73	G.H.R.	9-4-73

COMPUTED BY W.D.P

DATE 8-30-73

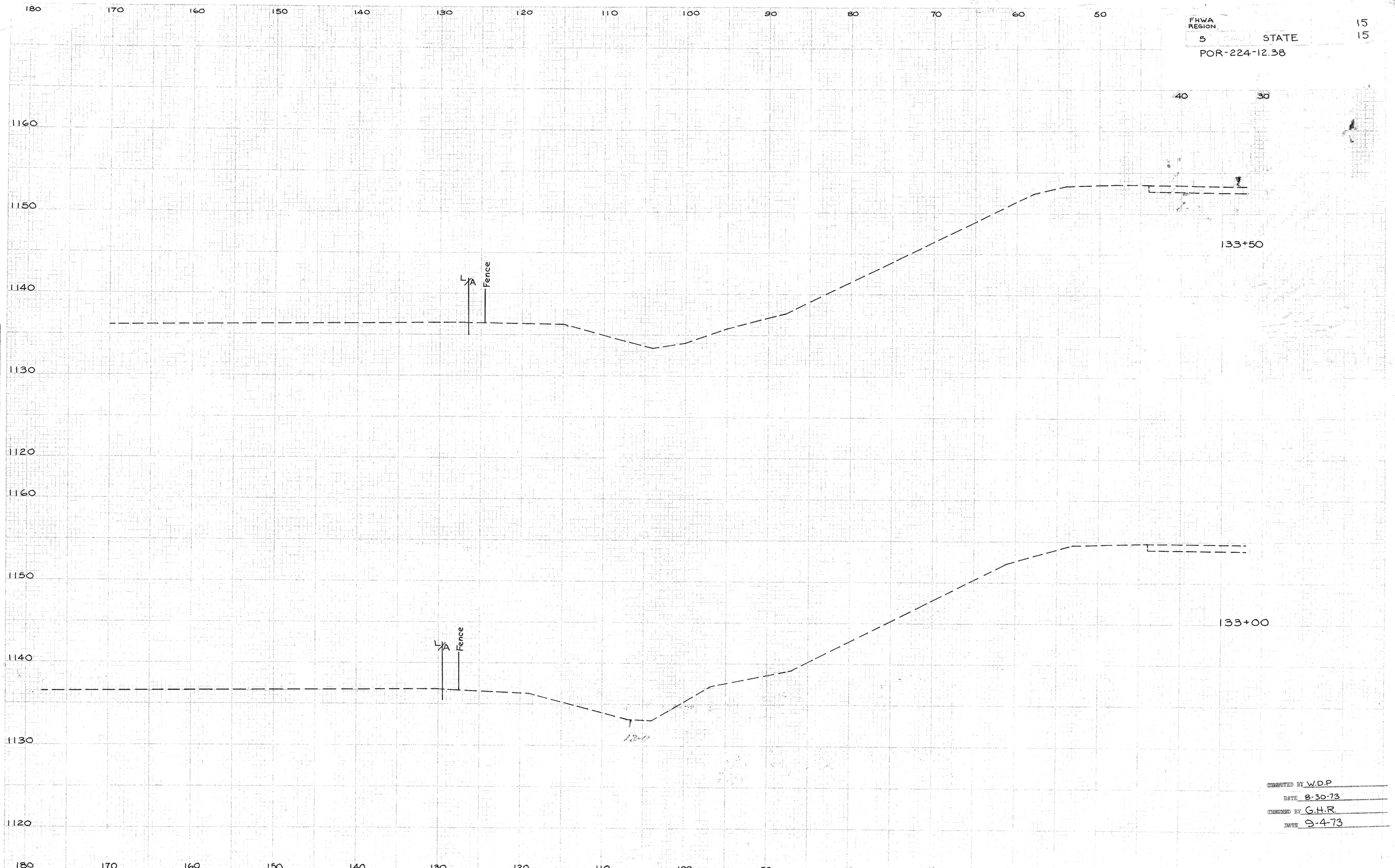
CHECKED BY G.H.R.

DATE 9-4-73

CROSS SECTIONS STA. 132+00 TO STA. 132+50

FHWA REGION 5 STATE 15 / 15

POR-224-12.38



CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	Hutton	8-7-73		
PLOTTED	W.D.P.	8-8-73	G.H.R.	8-8-73
TEMPLATE				
INKED	G.H.R.	8-22-73		
END AREAS	W.D.P.	8-30-73	G.H.R.	9-4-73
VOLUME TOTALS	W.D.P.	8-30-73	G.H.R.	9-4-73

COMPUTED BY W.D.P

DATE 8-30-73

CHECKED BY G.H.R.

DATE 9-4-73

CROSS SECTIONS STA. 133+00 TO STA. 133+50