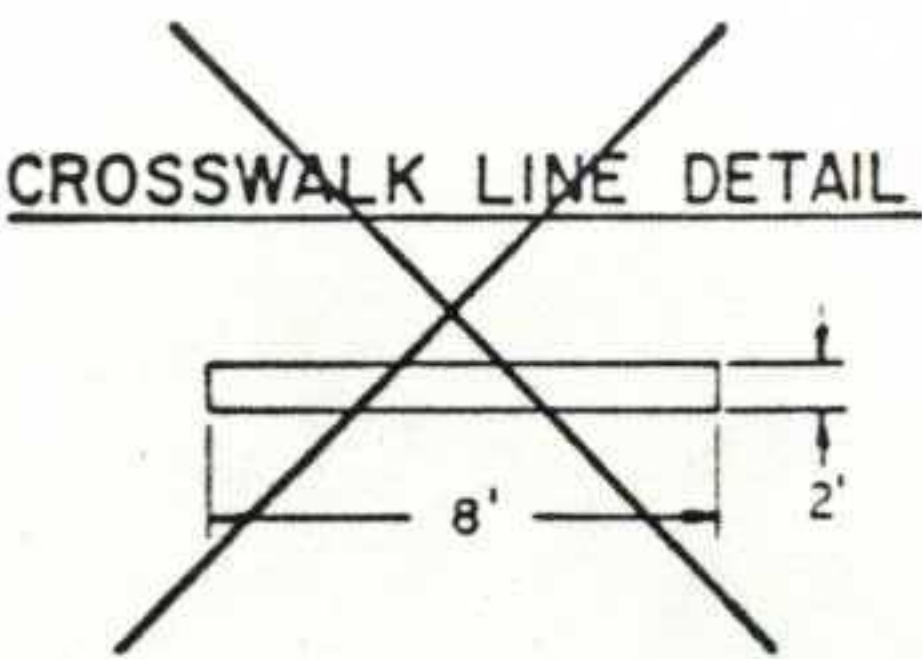


AS CONSTRUCTED		
NO REVISIONS	10-14-83	REVISED
VOID		

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
III	COLORADO	FRV 033-1 (33) FRV 033-1 (33)	29	

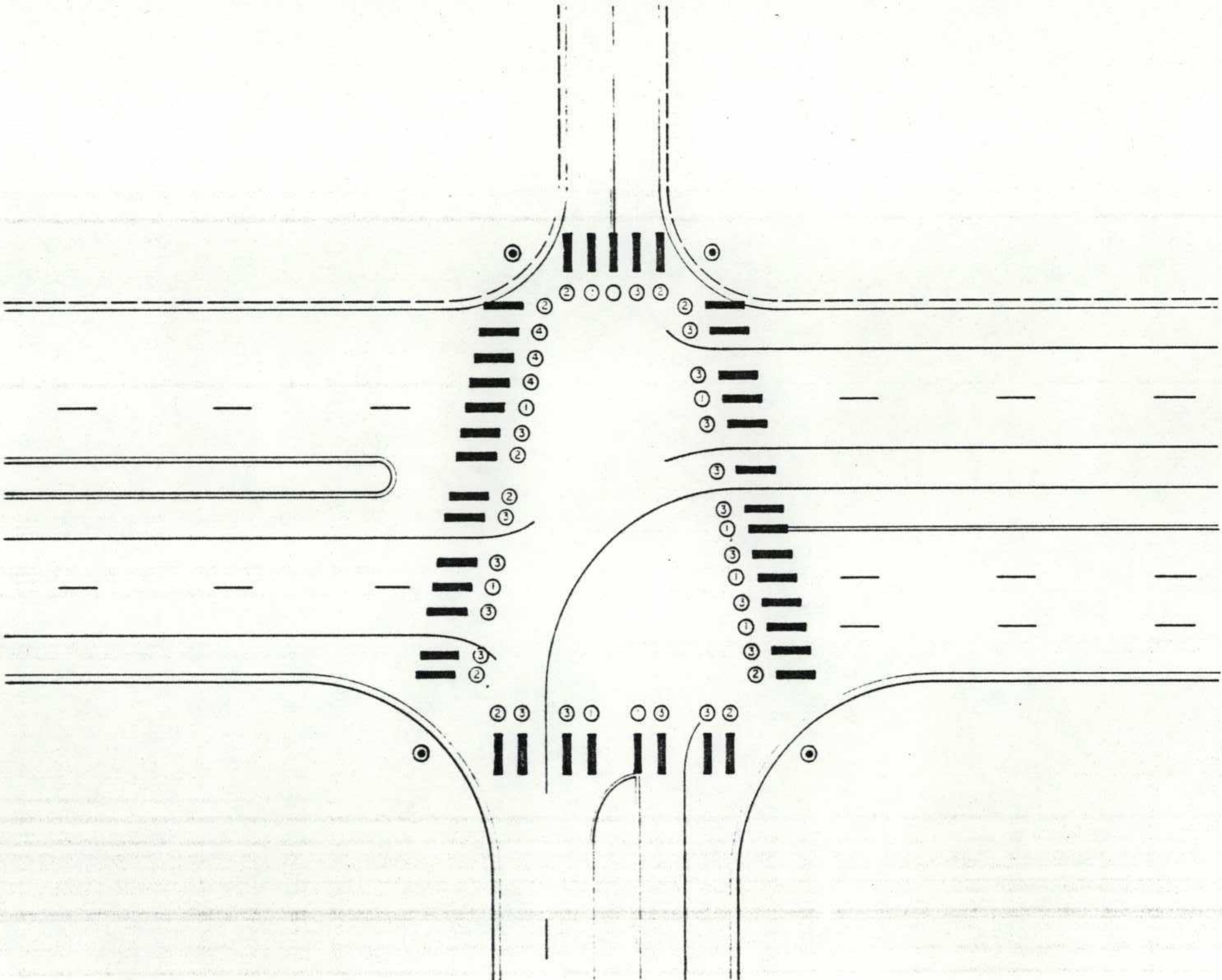
PMS 0004 (11)

TYPICAL PAVEMENT MARKINGS LONGITUDINAL (CONTINENTAL) TYPE CROSSWALKS



GENERAL NOTES

Center crosswalks on handicap ramps where such ramps are provided. At signalized intersections having no handicap ramps, center crosswalks on signal poles wherever practical, as shown.



LAYOUT KEY

- ① Center on lane line or centerline.
- ② Center on extended flow line.
- ③ Center between adjacent lines.
- ④ Lines and spaces to approximate adjacent pattern.

STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS—STATE OF COLORADO

RE UNDER FRU 093-1(3)
AND PMS 0004(II)
R.O.W. & UTILITIES
UNDER FRU 093-1(3)

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJECT No's.	SHEET NO.
VIII	COLORADO	FRU 093-1(3) PMS 0004(II)	1

AS CONSTRUCTED	
NO REVISIONS	REVISED 10-14-83 VOID

PLAN AND PROFILE OF ~~PROPOSED~~ AS CONSTRUCTED COMBINED FEDERAL AID PROJECT NOS. FRU 093-1(3) AND PMS 0004 (II) STATE HIGHWAY NO. 93 BOULDER COUNTY

TABULATION OF LENGTH & DESIGN DATA

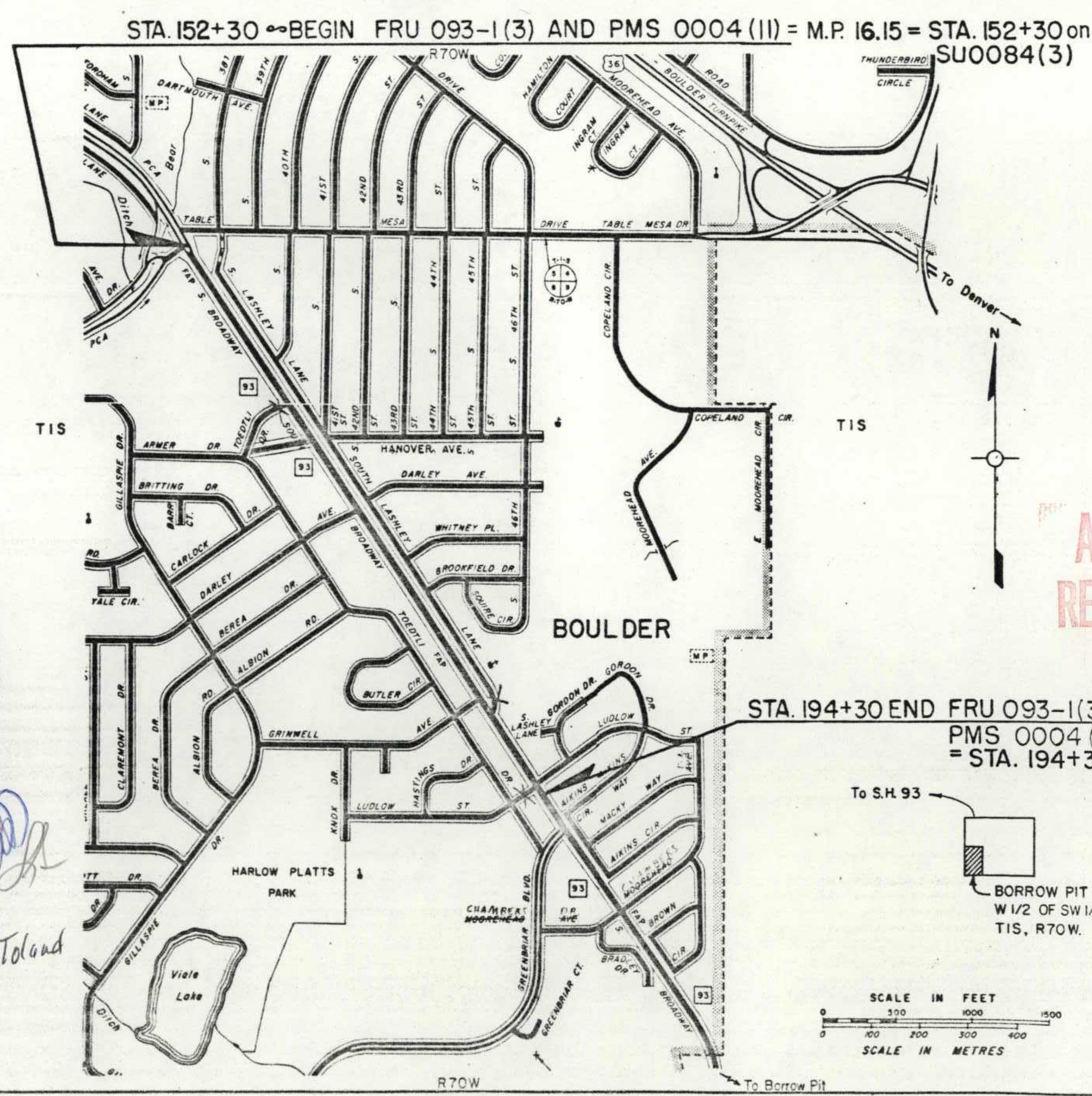
STATION	PROJECT No. FRU 093-1(3)		PROJECT No. PMS 0004(11)	
	LIN. FT.		LIN. FT	
152+30 BEGIN FRU 093-1(3) AND PMS 0004 (11) = 152+30 on SU 0084(3)	4,200		4,200	
194+30 END FRU 093-1(3) AND PMS 0004 (11) = 194+30 on SU 0084(3)				
TOTAL	4,200		4,200	
SUMMARY				
ROADWAY(NET LENGTH)	PROJ. No. FRU 093-1(3)		PROJ. No. PMS 0004(11)	
	LIN.FT.	MILES	LIN.FT.	MILES
	4,200.00	0.795	4,200.00	0.795
MAXIMUM DEGREE OF CURVE MAXIMUM GRADE MINIMUM S.S.D. HORIZONTAL MINIMUM S.S.D. VERTICAL MAXIMUM DESIGN SPEED	FRU 093-1(3)		PMS 0004(11)	
	NONE		NONE	
	3.14%		3.14%	
	N.A.		N.A.	
	800'		800'	
	TOMPH		TOMPH	

2002 DESIGN TRAFFIC VOLUME
ADT=31,500
DHV=3,765



DIST. IV	FILE	COPY
DIST. ENGR.		
ASST. ENGR.		
CONSTR.		
PRE-CONST.		
ERA		
UTIL.		
DESIGN		
ROW		
MAT'L'S		
TEST.		

SCALES OF ORIGINAL DRAWINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE { 1 IN. = 100 FT. HORIZONTAL
1 IN. = 0.5 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD



AS CONSTRUCTED		
NO. REVISIONS	10-14-83	REVISED
		VOID

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
XIII	COLORADO	FPU 093-T(3) PMS 0004 (11)	2	

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THE STANDARD PLAN SHEETS INDICATED HEREON BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
DIVISION OF HIGHWAYS

STANDARD PLANS LIST

M & S STANDARDS - JANUARY, 1982

FEDERAL ROAD DISTRICT NO.	DIVISION	COMBINED PROJ. NO'S.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	3	
AS CONSTRUCTED				
NO REVISIONS ☐ REVISED 10-14-83 VOID ☐				

GENERAL NOTES

PLAN QUANTITIES OF SURFACING MATERIALS ARE BASED ON THE FOLLOWING UNIT WEIGHTS AND RATES OF APPLICATION:

HOT BITUMINOUS PAVEMENT (GRADING EX) AT 110 LBS. PER SQ. YD. / INCH.
TACK COAT DILUTED EMUL. ASPH. (CSS-1H) AT 0.1 GAL./SQ. YD. (DILUTED)

DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.

RATES OF APPLICATION SHALL BE AS DIRECTED BY THE ENGINEER AT THE TIME OF APPLICATION. RATES SHOWN ABOVE ARE APPROXIMATE AND ARE SUBJECT TO ADJUSTMENT ON CONSTRUCTION.

DILUTED EMULSIFIED ASPHALT (CSS-1H) SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED AND SHALL CONSIST OF A DILUTION OF EMULSIFIED ASPHALT (CSS-1H) AND WATER, THE PORTIONS OF WHICH SHALL BE 9 PARTS WATER AND 1 PART EMULSIFIED ASPHALT (CSS-1H), BASED ON VOLUME MEASUREMENT. LOCATIONS SHALL BE AS ORDERED.

THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAYER:

1. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH
2. SHORT SKI OR SHOE

ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

ALL COMPACTION SHALL BE AASHTO T-99.

DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

- FULL DEPTH OF ALL EMBANKMENTS
- BASES OF CUTS AND FILLS 6 INCHES
- FULL WIDTH OF WIDENING

TREATMENT OF BASES OF CUTS AND FILLS WITH MOISTURE AND DENSITY CONTROL WILL BE CONSIDERED AS SUBSIDIARY TO THE EXCAVATION OPERATION AND WILL NOT BE PAID SEPARATELY.

IT IS ESTIMATED THAT 3,000 HOURS OF FLAGGING WILL BE REQUIRED FOR THIS PROJECT.

THE UTILITIES SHOWN ON THE PLANS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ALL UTILITY INFORMATION AND HIS ATTENTION IS DIRECTED TO SUBSECTION 107.18 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS AND RADII ARE TO THE FLOWLINE OF THE CURB AND GUTTER UNLESS OTHERWISE NOTED.

SURVEY MONUMENT BOXES WILL BE FURNISHED BY THE CITY OF BOULDER AT NO COST TO THE CONSTRUCTION. THE UNIT PRICE BID SHOULD NOT REFLECT THE COST OF THE BOX, ONLY THE COST OF THE CONCRETE AND WORKMANSHIP TO DO THIS JOB. THE CONTRACTOR WILL CONTACT THE CITY OF BOULDER ENGINEERING DIVISION 48 HOURS IN ADVANCE FOR SURVEYING NEEDED TO LOCATE AND TIE OUT EXISTING MONUMENT BOXES TO BE PAID FOR AS INSTALL MARKER. IT IS ESTIMATED THAT 3 INSTALL MARKERS WILL BE REQUIRED ON THIS PROJECT.

WASTE MATERIAL SHALL BE DISPOSED OF OFF THE RIGHT OF WAY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN HIS OWN DISPOSAL SITE FOR ALL UNUSABLE MATERIAL WHICH IS REMOVED.

EXISTING SIGNS, GUARD POSTS AND DELINEATORS WILL BE REMOVED OR RESET BY STATE FORCES AT NO COST TO THE PROJECT.

ALL WORK TO BE DONE ACCORDING TO THE MUTCD MANUAL.
IT IS ESTIMATED THAT 1,050 CUBIC YARDS OF TOPSOIL WILL BE REQUIRED FOR BERM AREAS TO BE LANDSCAPED. TOPSOIL SOURCE IS UNDESIGNATED.

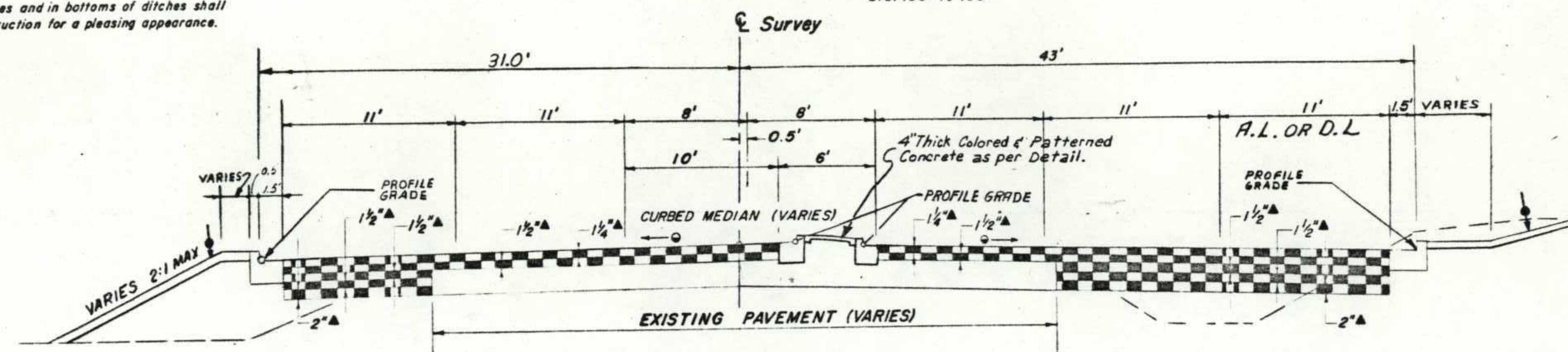
FINAL SIGNING WILL BE DONE BY STATE FORCES.

IT IS ESTIMATED THAT 477 M. GAL. OF WATER WILL BE REQUIRED FOR THE WETTING OF COMPACTION.

IT IS ESTIMATED THAT 32 LIN. FT. OF CURB TYPE 6 (SECTION M) WILL BE REQUIRED TO REPLACE THE RAISED ISLAND AT THE HANOVER AVE. INTERSECTION LEFT OF STA. 167+

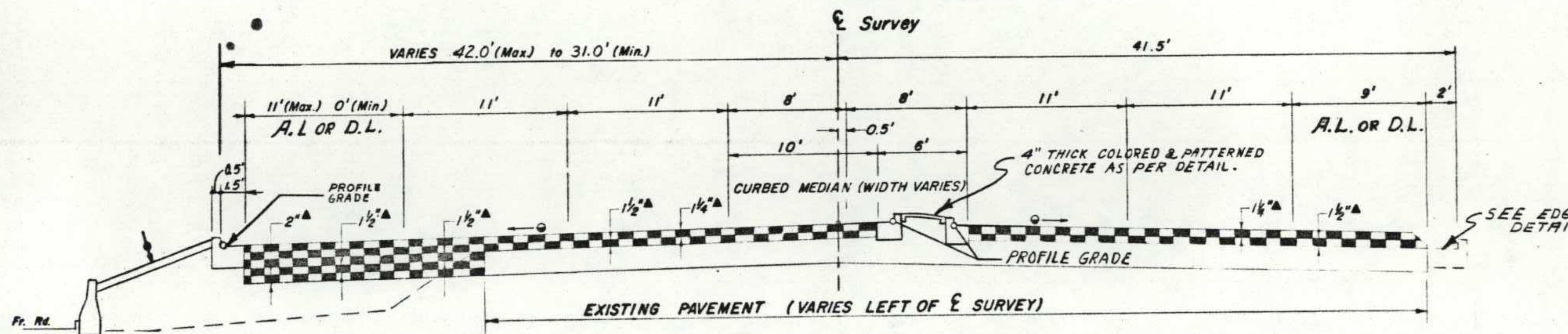
TYPICAL SECTION "C"

Sta. 159+ to 166+



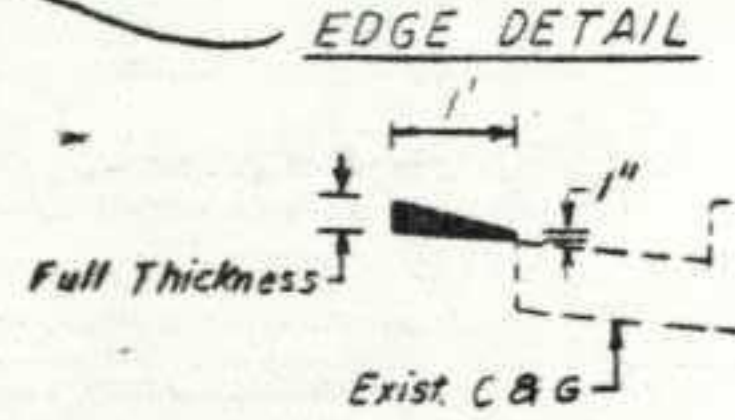
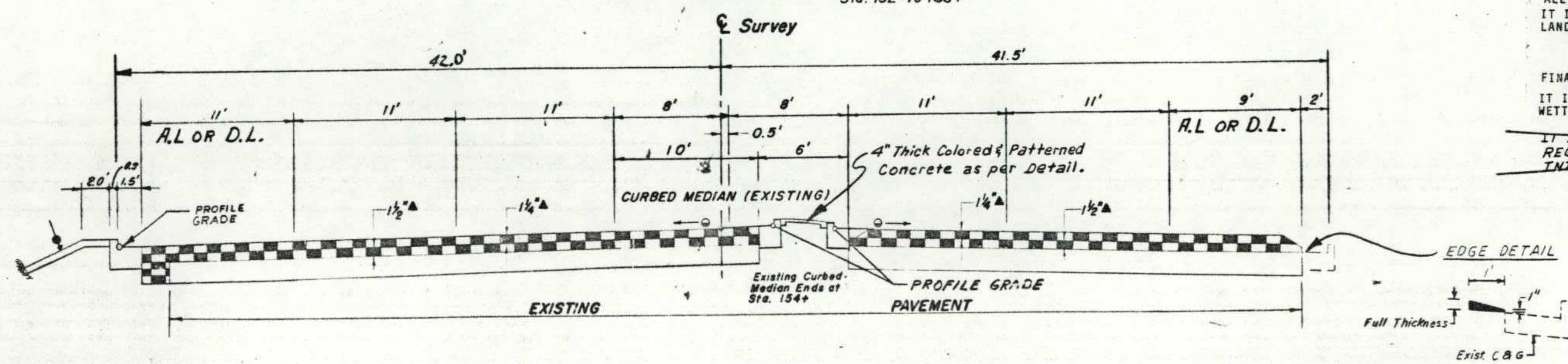
TYPICAL SECTION "B"

Sta. 156 to 159+



TYPICAL SECTION "A"

Sta. 152+ to 156+



- ▲ Approximate Thickness
- Use existing slope
- ▽ Topsoil will be placed to the line shown (4" Thickness).

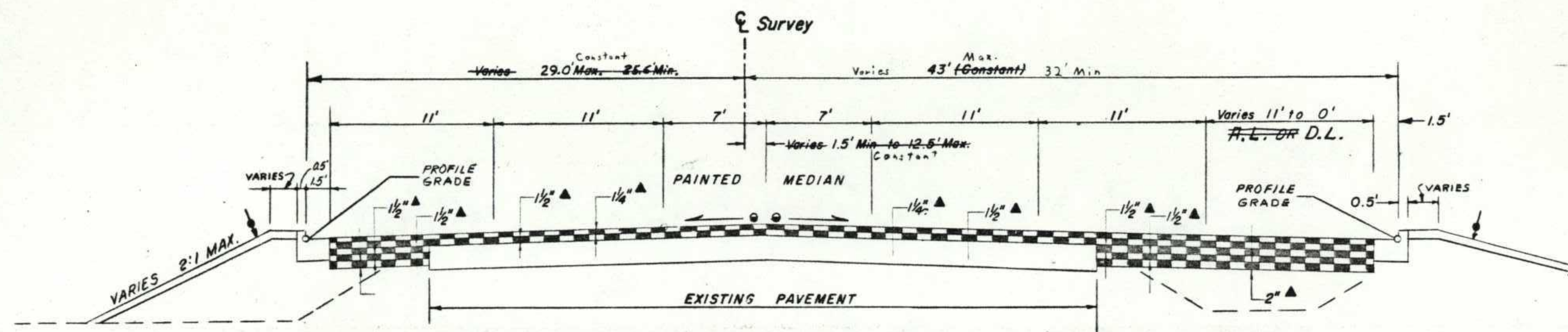
SEEDING (NATIVE), COMMERCIAL FERTILIZER OF THE TYPE AND RATE LISTED BELOW AND MULCHING
WILL BE REQUIRED FOR APPROXIMATELY 2 ACRES FOR ROADWAY WITHIN RIGHT-OF-WAY LIMITS ON
ALL DISTURBED AREAS NOT SURFACED. THE FOLLOWING TYPES AND RATES
SHALL BE USED:

MULCHING MATERIAL: 1 TON PER ACRE HYDRAULICALLY APPLIED WOOD CELLULOSE FIBER MULCH -

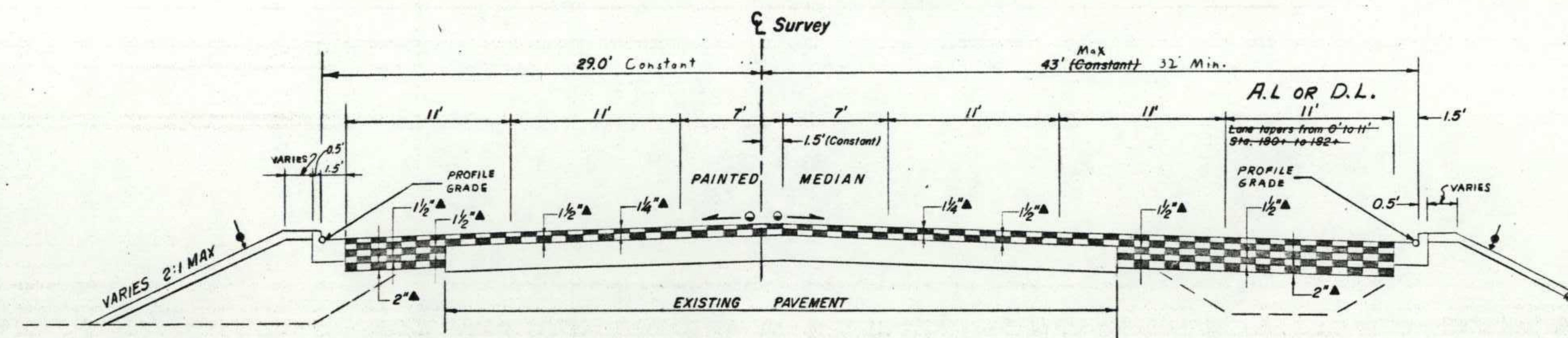
SEED SHALL BE MECHANICALLY DRILLED INTO THE TOPSOIL.

	1447	Final
SEEDING (NATIVE)	57 LBS.	64 lbs
FERTILIZER (AVAILABLE N)	109 LBS.	90 lbs
FERTILIZER (AVAILABLE P)	277 LBS.	230 lbs
MULCHING (HYDRAULIC)	2 TON	2 Ton

Sta. 173+ to 181

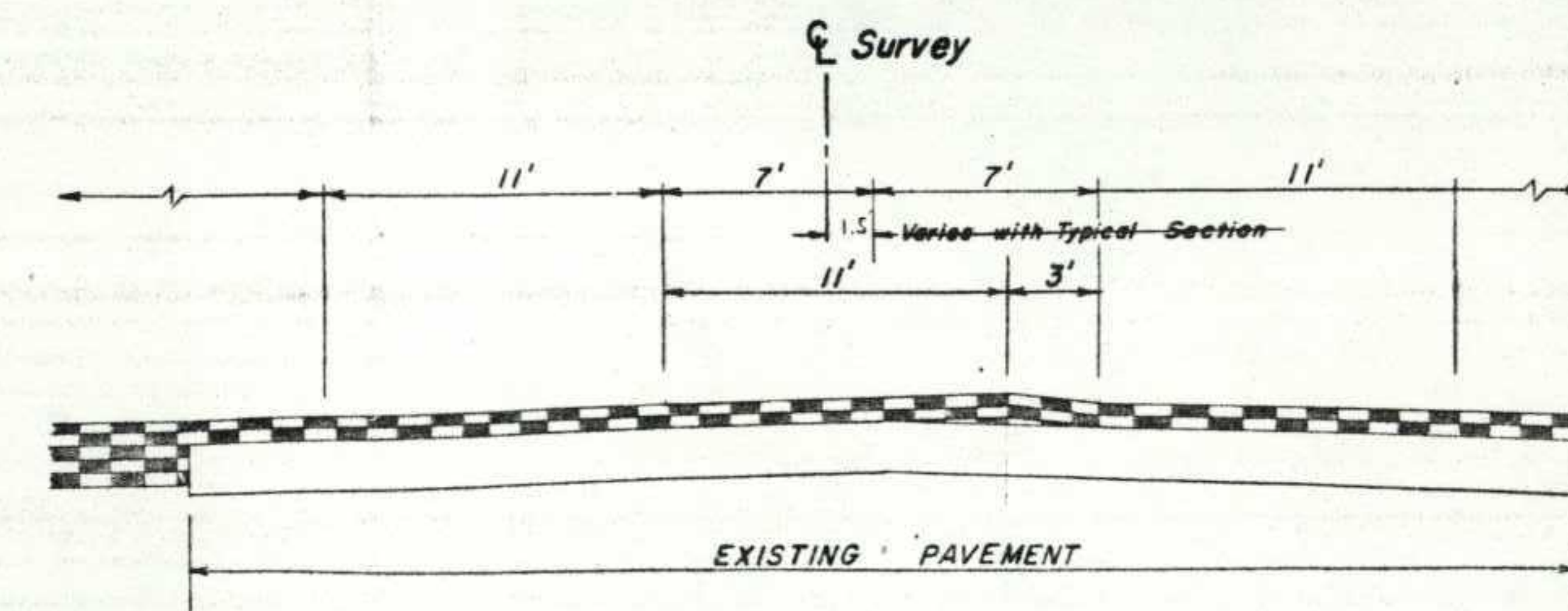


Sta. 166+ to 173+
Sta. 181+ to 194+



- ▲ *Approximate Thickness*
- *Use Existing Slope*
- *Topsoil will be placed to the line shown (4" Thickness).*

LEFT TURN LANE



~~FINAL~~
SUMMARY OF APPROXIMATE QUANTITIES

AS CONSTRUCTED		
NO REVISIONS	REVISED <u>10-14-85</u>	VOID

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	5	

INDEX BOOK PAGE SHEET			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	FRU093-1(3)						PMS 0004(11)			COMBINED PROJECT TOTALS	AS CONST. PROJECT TOTALS	DIFF. +/-	% PLAN
						PLAN ROADWAY	FINAL ROADWAY	PLAN UTILITIES	FINAL Utilities	PLAN TOTALS	FINAL TOTALS	PAVEMENT MARKING	PROJECT TOTALS					
DOH FORM 305	201	CLEARING AND GRUBBING	L.S.		1	1			1	1				1	1	0	100	
	202	REMOVAL OF STRUCTURE	EACH		7	7			7	7				7	7	0	100	
	202	REMOVAL OF PIPE	LIN.FT.		786	577			786	577				786	577	-209	73	
	202	REMOVAL OF CURB AND GUTTER	LIN.FT.		1,063	1,028			1,063	1,028				1,063	1,028	-35	97	
	202	REMOVAL OF CURB, GUTTER AND SIDEWALK	LIN.FT.		252	206			252	206				252	206	-46	82	
	202	REMOVAL OF CONCRETE PAVEMENT	SQ.YD.		156	147			156	147				156	147	-9	94	
	202	REMOVAL OF ASPHALT MAT	SQ.YD.		120	1,006			120	1,006				120	1,006	+886	838	
	203	UNCLASSIFIED EXCAVATION	Cu.Yd.		1,904	1,435 (Actual Quant. 1,435 Field Quant. Paid)			1,904	1,435				1,904	1,435	-469	75	
	203	BORROW	Cu.Yd.		11,470	7,090 (Actual Quant. 7,104 Field Quant. Paid)			11,470	7,090				11,470	7,090	-4,380	62	
	203	COMPACTION (AASHTO T 99)	Cu.Yd.		11,918	11,262 (Actual Quant. 11,276 Field Quant. Paid)			11,918	11,262				11,918	11,262	-656	94	
	204	HAUL	Yd.Mi.		58,971	38,610 (Actual Quant. 38,615 Field Quant. Paid)			58,971	38,610				58,971	38,610	-20,361	65	
	206	STRUCTURE EXCAVATION	Cu.Yd.		2,558	2,640			2,558	2,640				2,558	2,640	+82	103	
	206	STRUCTURE BACKFILL (CLASS 1)	Cu.Yd.		356	350			356	350				356	350	-6	98	
	206	STRUCTURE BACKFILL (CLASS 2)	Cu.Yd.		965	995			965	995				965	995	+30	103	
	206	FILTER MATERIAL (CLASS B)	Cu.Yd.		21	33			21	33				21	33	+12	157	
	206	BED COURSE MATERIAL	Cu.Yd.		134	138			134	138				134	138	+4	103	
	207	TOPSOIL (HAUL)	Cu.Yd.		1,050	1,063			1,050	1,063				1,050	1,063	+13	101	
	209	WETTING	M.GAL.		477	48			477	48				477	48	-429	10	
	210	RESET STRUCTURE	EACH		4	4			4	4				4	4	0	100	
	210	RESET MAILBOX STRUCTURE Deleted by Form 105	EACH		2	0	2	2	2	0				2	0	-2	0	
	210	RESET FIRE HYDRANT	EACH						2	2				2	2	0	100	
	210	RELAY PIPE (6 INCH)	LIN.FT.		23	12			23	12				23	12	-11	52	
	210	RELAY PIPE (24 INCH)	LIN.FT.		25	40			25	40				25	40	+15	160	
	210	ADJUST MANHOLE	EACH				5	10	5	10				5	10	+5	200	
	210	ADJUST VALVE BOX	EACH				12	19	12	19				12	19	+7	158	
	212	SEEDING (NATIVE)	LB.		57	64			57	64				57	64	+7	112	
	212	FERTILIZER (AVAILABLE N)	LB.		109	90			109	90				109	90	-19	83	
	212	FERTILIZER (AVAILABLE P)	LB.		277	230			277	230				277	230	-47	83	
	213	MULCHING (HYDRAULIC)	TON		2	2			2	2				2	2	0	100	
	403	HOT BITUMINOUS PAVEMENT (PATCHING) (HAUL AND ASPHALT) CMO 4	TON		75	408.27			75	408.27				75	408.27	+333.27	544	
	403	HOT BITUMINOUS PAVEMENT (GRADING EX) (HAUL AND ASPHALT) CMO 9206	TON		9637	8,145.65			9637	8,145.65				9637	8,145.65	-1,491.35	85	
	411	EMULSIFIED ASPHALT (CSS-1H)	GAL.		3,688	2,659			3,688	2,659				3,688	2,659	-1,029	72	
	412	CONCRETE PAVEMENT (6 INCH)	SQ.YD.		204	163			204	163				204	163	-41	80	
	412	CONCRETE PAVEMENT (8 INCH)	SQ.YD.		62	98			62	98				62	98	+36	158	
	601	CONCRETE CLASS A (MISCELLANEOUS)	Cu.Yd.		6	2			6	2				6	2	-4	33	
	602	REINFORCING STEEL Deleted by Form 105	LB.		25	0			25	0				25	0	-25	0	
	604	INLET TYPE C (5 FOOT) CMO 9206	EACH		1	2			1	2				1	2	+1	200	
	604	INLET SPECIAL (DOUBLE) (5 FOOT)	EACH		2	4			2	4				2	4	+2	200	
	604	INLET TYPE R L 5 (5 FOOT)	EACH		9	10			9	10				9	10	+1	111	
	604	INLET TYPE R L 5 (10 FOOT)	EACH		2	2			2	2				2	2	0	100	
	604	INLET TYPE R L 10 (5 FOOT)	EACH		4	4			4	4				4	4	0	100	
	604	INLET TYPE R L 10 (10 FOOT)	EACH		1	1			1	1				1	1	0	100	

FINAL
SUMMARY OF ~~APPROXIMATE~~ QUANTITIES

AS CONSTRUCTED				FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ.NOS.	SHEET NO.	TOTAL SHEETS
NO REVISIONS		REVISED	10-14-83	VOID		FRU 093-1(3) & PMS 0004(11)	6	

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	FRU093-1(3)						PMS0004(11)				COMBINED PROJECT TOTALS	AS CONST. PROJECT TOTALS	DIFF. +/-	% PLAN
BOOK	PAGE	SHEET				PLAN ROADWAY	FINAL ROADWAY	PLAN UTILITIES	FINAL UTILITIES	PLAN PROJECT TOTALS	FINAL PROJECT TOTALS	PLAN PAVEMENT MARKING	FINAL PAVEMENT MARKING	PLAN PROJECT TOTALS	FINAL PROJECT TOTALS				
DOH FORM	305		604	MANHOLE SLAB BASE (5 FOOT)	EACH	4	5			4	5				4	5	+1	125	
			604	12 INCH REINFORCED CONCRETE PIPE SEWER	LIN.FT.	25	74			25	74				25	74	+49	296	
			604	15 INCH REINFORCED CONCRETE PIPE SEWER	LIN.FT.	604	754			604	754				604	754	+150	125	
			604	18 INCH REINFORCED CONCRETE PIPE SEWER	LIN.FT.	1,595	1,464			1,595	1,464				1,595	1,464	-131	92	
			604	21 INCH REINFORCED CONCRETE PIPE SEWER	LIN.FT.	1,031	1,028			1,031	1,028				1,031	1,028	-3	100	
			606	GUARD RAIL TYPE 3 (6-3 POST SPACING) CMO 9206 & 5	LIN.FT.	775	0			775	0				775	0	-775	0	
			606	GUARD RAIL TYPE 4 CMO 9206	LIN.FT.	512	701			512	701				512	701	+189	137	
			606	END ANCHORAGE TYPE 3D FM 105 & CMO 5	EACH	3	2			3	2				3	2	-1	67	
			606	END ANCHORAGE TYPE 3E FM 105 (Deleted)	EACH	3	0			3	0				3	0	-3	0	
			608	CONCRETE SIDEWALK CMO 9206	SQ.YD.	27	493			27	493				27	493	+466	1826	
			608	CONCRETE CURB RAMP	SQ.YD.	73	117			73	117				73	117	+44	160	
			609	CURB AND GUTTER TYPE 2 (SECTION I-B)	LIN.FT.	2,531	2,588			2,531	2,588				2,531	2,588	+57	102	
			609	CURB AND GUTTER TYPE 2 (SECTION II-B)	LIN.FT.	7,820	7,734			7,820	7,734				7,820	7,734	-86	99	
			609	CURB, GUTTER AND SIDEWALK TYPE 2 (SECTION MS)	LIN.FT.	42	68			42	68				42	68	+26	162	
			609	GUTTER TYPE 2 (4 Foot) Deleted by CMO 1849	LIN.FT.	126	0			126	0				126	0	-126	0	
			609	CURB TYPE 6 (SECTION M) FM 105 (Deleted)	LIN.FT.	32	0			32	0				32	0	-32	0	
			610	MEDIAN COVER MATERIAL (PATTERNED CONCRETE)	SQ.FT.	4,794	5,534			4,794	5,534				4,794	5,534	+740	115	
			612	INSTALL MARKER	EACH	3	1			3	1				3	1	-2	33	
			614	FLAGGING	HOURLY	3,000	1,527.5			3,000	1,527.5				3,000	1,527.5	-1,427.5	51	
			614	TRAFFIC CONTROL SUPERVISOR	DAY	100	147.5			100	147.5				100	147.5	+47.5	148	
			614	BARRICADE (TYPE 3M-B) (TEMPORARY)	EACH	2	2			2	2				2	2	0	100	
			614	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	16	2			16	2				16	2	-14	12	
			614	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	28	20			28	20				28	20	-8	71	
			614	VERTICAL PANEL	EACH	100	73			100	73				100	73	-27	73	
			614	VERTICAL PANEL (WITH LIGHT) (FLASHING)	EACH	30	38			30	38				30	38	+8	127	
			614	TRAFFIC CONE	EACH	100	100			100	100				100	100	0	100	
			620	FIELD LABORATORY (CLASS 3)	EACH	1	1			1	1				1	1	0	100	
			620	SANITARY FACILITY	EACH	1	1			1	1				1	1	0	100	
			609	Gutter Type 2 (8') CMO 1849	LIN.FT.	0	+114			0	+114				0	+114	+114	0	
			210	Reset Chain Link Fence CMO 1849	L.S.	0	+1			0	+1				0	+1	+1	0	
			210	Relay Sprinkler System CMO 1849	L.S.	0	+1			0	+1				0	+1	+1	0	
			601	High Early Additive CMO 1849	Cu.Yd.	0	+5			0	+5				0	+5	+5	0	
			626	MOBILIZATION	L.S.	0.95	0.95			0.95	0.95	0.05	0.05	0.05	0.05	0.05	0	100	
			606	End Anchor Type 3E CMO 1849	EACH	0	+1			0	+1				0	+1	+1	0	
			309	Structural Steel (Galvanized) (CMO 1849 & Form 105)	L.S.	0	0			0	0				0	0	0	0	
			627	THERMOPLASTIC PAVEMENT MARKING CMO 6	SQ.FT.							9,072	7,057	9,072	7,057	9,072	7,057	-2,015	78
			606	Guard Rail Ty 3 (6-3) (Weathered) CMO 9206 & 5	LIN.FT.	0	1,170			0	1,170				0	1,170	+1,170	0	
			627	Preformed Plastic Pavement Marking 160 mils (CMO 6)	Sq.Ft.							0	3,302	0	3,302	0	3,302	+3,302	0
			FORCE ACCOUNT																
			F/A01	MINOR CONTRACT REVISIONS	F.A.	0.95	0.95			0.95	0.95	0.05	0	0.05	0	0.95	-0.05	95	
			F/A02	ON THE JOB TRAINEE	EACH	1	1			1	1				1	1	0	100	
			F/A03	FINAL SIGNING (BY STATE FORCES)	F.A.	1	1			1	1				1	1	0	100	
			RIGHT OF WAY																
			Easements				L.S.	1	1		1				1	1	0	100	

AS CONSTRUCTED			FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
NO REVISION	REVISED	VOID	VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	7	

FRU 093-1(3)

▲ Elevation approximate only, actual elevation to be determined during construction. Ⓢ 72' of 18" RCPS To be built By City of Boulder. Ⓢ Connect to 128' of RCPS to be built by City of Boulder. Ⓢ 52' of 15" RCPS to be built by City of Boulder.
NOTE: WORK BY CITY OF BOULDER IS AT NO COST TO THE PROJECT.

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
<u>VIII</u>	COLORADO	FRU 093-1(3) PMS 0004(11)	7X	

▲ Elevation approximate only, actual elevation to be determined during construction. ⁹ None required due to the size of the pipe, thickness of the walls, and L.S.L.F. outside of the inlet which is paid for under the inlet/MH item. ¹⁰ This pipe passes through adjacent walls of MH 167B and Inlet 167A. No Str. Excav., Backfill or Bed Course needed. ¹¹ This pipe passes through center of Type 4 Guard Rail. Structure Excavation and Backfill needed only for bottom half of the pipe. No Bed Course needed.

TABULATION OF REMOVALS FOR CONCRETE CURB AND GUTTER, SIDEWALK

STATION	SIDE	CURB AND GUTTER TYPE 2								CONCRETE PAVEMENT 6" THICK SQ. YD.				COMMENTS	
		SECTION I B		SECTION II B		SECTION MS									
		LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.								
157+37.2 To 158+75	RT.	Plan	Final	Plan	Final	Plan	Final	Plan	Final						
158+87.2 To 158+98.3	RT.			137.8	158										
159+33 To 159+83	RT.			16.0		83			-	13					
161+35.5	RT.			21.0	-										
161+65.5	RT.			21.0	-										
161+82	RT.							3.1	-						
163+27	RT.							1.9	4						
167+	RT.			-	37										
169+73 To 169+77	RT.			-	19	20.0	-								
170+07 To 170+09	RT.			-	18	21.0	-	-	38						
172+30.5	RT.					25.4	30		8						
172+70.5	RT.					24.4	30		36						
186+80	RT.					21.0	10								
187+20	RT.					21.0	10								
187+42 To 188+00	RT.							61.1	7					Conc. Bus Pad	
194+16 To 194+19	RT.			-	3	3.0	-								
154+	RT.			-	19										
152+51 To 154+05	MIDDLE	316.0	308												
152+40	LT.							-	14						
152+29 To 152+75.5	LT.			60.9	210										
152+75.5 To 153+18.5	LT.			43.0					19.1	-					
153+18.5 To 153+64.5	LT.			46.0											
153+64.5 To 154+09.5	LT.			45.0	-0-			20.0	-						
154+09.5 To 154+28	LT.			18.5											
160+64 To 161+14	LT.			50.0											
161+98 To 162+48	LT.			50.0	69										
166+06 To 166+56	LT.			50.0	39										
166+41 To 167+23	LT.					102.0	126								
166+79 To 167+13	LT.							50.0	27						
167+62 To 168+12	LT.			50.0	56										
167+48 To 167+62	LT.	45.0	-0-												
193+56	LT.					7.0	-								
193+93	LT.					7.0	-								
TOTAL		361.0	308	701.6	711	251.8	206	155.2	147						

* Paid for as Removal of Curb, Gutter and Sidewalk

FRU 093-1(3)

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	8	
AS CONSTRUCTED				
NO REVISIONS ☐ REVISED ☐ 10-14-73 VOID ☐				

TABULATION OF REMOVALS

STATION	SIDE	PIPE		MANHOLE		INLET TYPE SPECIAL		OUTLET OF STORM SEWER		MISCELLANEOUS & COMMENTS			
		LIN. FT.		EACH		EACH		EACH					
		Plan	Final	Plan	Final	Plan	Final	Plan	Final				
157+37.2 To 159+53	RT.	216.0	216										24" CMP
159+40.0	RT.					1	1						
159+40.0 To 159+53	RT.	13.0	13										9" CMP
161+39	RT.	57.0	56										29"x18" CMP
163+97	RT.	60.0	60										29"x18 CMP
165+09 To 165+37	RT.	28.0	-										18"x11" CMP
167+04	RT.	26.0	-										18" CMP
167+53 To 167+60	RT.	7.0	-										12" RCP
167+53	RT.			1	-0-								Plug End of Pipe
169+61	RT.			1	1								Plug End of Pipe
170+17	RT.			1	1								" "
170+53	RT.			1	1								" "
172+23	RT.			1	1								Plug End of Pipe
172+23 To 172+78	RT.	55.0	55										18" CMP
172+76	RT.	7.0	30										24" RCP
172+72	RT.							1	1				
178+49 To 178+78	RT.	29.0	-										24" CMP
*180+19	RT.												Cotton Woods
186+70 To 187+31	RT.	61.0	61										18" CMP
193+42 To 194+24.2	RT.	83.0	-										18" RCP
193+44	RT.	6.0	6										15" RCP
154+	RT.	-0-	7										18" RCP
157+36	RT.					-0-	1						
170+15.5	RT.	-0-	10										10" Clay Tile
161+60	LT.	50.0	51										18" CMP
166+90	LT.	48.0	-										18" RCP
165+20	LT.	28.0	-										18"x11" CMP
172+56	LT.	12.0	12										20" Iron Pipes
TOTAL		786	577	5	4	1	2	1	1				

* Paid for under Item 201, Clearing and Grubbing.

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS C004 (11)	9	
AS CONSTRUCTED				
NO REVISIONS		REVISED	12-14-83	VOID

TABULATION OF RESET ITEMS

STATION	SIDE	MAIL BOX		FIRE HYD.		MANHOLE		RESET STRUCTURE		WATER VALVE		6" CAST IRON PIPE						COMMENTS
		Plan	Final	Plan	Final	Plan	Final	Plan	Final	Plan	Final	Plan	Final	Lin. Ft.	Plan	Final		
157+15	LT.							1	-0-									■ Pull Box
157+45	RT.									1	-0-							Adjust Only
158+20	LT.							1	-0-									■ Pull Box
158+90	LT.					0	1	1	-0-	0	1							■ Pull Box
161+60	LT.																	Re-lay
161+82	RT.									0	1	13	6					Re-lay
161+90	LT.											10	6					
163+27	RT.																	
163+90	RT.									1	1							Adjust Only
164+37	RT.									1	1							Adjust Only
166+76	RT.	1	-															
167+10	LT.									1	2							Adjust Only
167+41	LT.									1	1							Adjust Only
167+15	RT.									0	1							Adjust Only
169+50	RT.			1	1					1	1							
169+80	RT.	1	-															
170+48	RT.					-0-	1											Adjust Only
172+48	RT.					1	1											Adjust Only
172+48	RT.									1	1							
172+50	RT.									1	1							Adjust Only
172+80	RT.			1	1													Adjust Only
174+35	RT.					1	1											
175+58	RT.					1	1											
176+92	RT.					1	1	1	-0-									Elect. Meter
178+25	RT.																	
178+89	RT.					1	1											Adjust Only
186+92	RT.									1	1							
193+64	LT.									1	2							} Adjust Only
193+65	LT.									1	1							
193+99	LT.									1	1							
152+55	RT.							-0-	1									Pull Box
166+50	LT.							-0-	1									Pull Box
167+25	LT.							-0-	1									Pull Box
173+00	RT.							-0-	1									Pull Box
151+50	LT.					0	1											} Adjust Only
152+00	RT.					0	1											
152+30	LT.					0	1			0	1							
166+65	LT.									0	1							
152+00	LT.									0	1							
166+50	RT.									0	1							
TOTAL		2	deleted from 162	2	2	5	10	4	4	12	19	23	12					

- See Details of Reset Pull Box.
- See Details, May require an elbow.

TABULATION OF CONCRETE CURB, GUTTER AND SIDEWALK

▲ W = 8' CMO 1849

[illegible]

* STA. 165 + 21 TO 167 + 11 CURB & GUTTER, TYPE 2 AND CURB RAMP, TYPE 3A TO BE BUILT BY CITY OF BOULDER AT NO COST TO THE PROJECT. 361 sq. yd. added CMO No 9206

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	11	
AS CONSTRUCTED				
NO REVISIONS ☐ REVISED 10-14-83 VOID ☐				

SURFACE COURSE PLAN

STATION TO STATION	SOURCE	HOT BITUMINOUS PAVEMENT QUANTITY-TONS		
		BOTTOM LAYER GRADING EX	MIDDLE LAYER GRADING EX	TOP LAYER GRADING EX
152+30 ~ 152+54		1	18	15
152+54 ~ 154+28		3	119	100
154+28 ~ 155+35		7	73	61
155+35 ~ 156+89		57	105	88
156+89 ~ 158+69		110	114	95
158+69 ~ 159+01		60	22	18
159+01 ~ 159+67		75	48	40
159+67 ~ 161+25		162	102	85
161+25 ~ 165+72		410	267	223
165+72 ~ 167+67		173	126	105
167+67 ~ 173+00		446	338	281
173+00 ~ 177+00		310	247	206
177+00 ~ 181+00		310	247	206
181+00 ~ 185+00	UNDESIGNATED	330	253	211
185+00 ~ 187+30		176	146	122
187+30 ~ 194+30		578	443	369
ROADWAY APPROACHES:				
159+01 ~ 159+33 RT			7	6
161+35.5 ~ 161+65.5 RT			8	6
*167+49 ~ 167+61 LT				1
161+24.8 ~ 161+95 LT			5	4
166+06 ~ 168+27 LT			83	69
169+49.2 ~ 170+34 RT			11	9
172+05.5 ~ 172+95.5 RT			12	10
186+55 ~ 187+45 RT			12	10
193+31 ~ 194+17 LT			11	9
APPROACHES TO PROJECT:				
150+80 ~ 152+30			111	93
194+30 ~ 196+30		83	127	106
SUB-TOTAL		3291	3055	2548
LEVELING COURSE FROM TABULATION OF STORM SEWER SYSTEM		38	705	
TOTAL				9637

STABILIZATION BASED ON THE FOLLOWING:

WIDENED AREAS:

18 ^k E.D.L.A. (20 YEAR)	168
REGIONAL FACTOR	1.5
SERVICEABILITY INDEX	2.5
STRENGTH COEFFICIENTS:	
BITUMINOUS PAVEMENT	0.44
BORROW	R = 37

OVERLAY AREAS - DEFLECTION ANALYSIS:

18 ^k E.D.L.A. (20 YEAR)	168
CRITICAL FACTOR	1.75
STRENGTH COEFFICIENTS:	
BITUMINOUS PAVEMENT	0.44
EXISTING PAVEMENT	0.30

SUMMARY OF EARTHWORK QUANTITIES

INDEX	PROJECT TOTALS	
	Plan	Final
UNCLASSIFIED EXCAVATION		
ROADWAY (COMPUTER)		
TOTAL		
BORROW		
FOR ROADWAY EMBANKMENT		
TOTAL		
COMPACTION (AASHTO T99)		
EMBANKMENT (NET)		
BASE OF CUTS AND FILLS		
TOTAL		
HAUL		
FROM MASS DIAGRAM		
TOTAL		
ROADWAY QUANTITIES BALANCE		
(FOR INFORMATION ONLY)		
EXCAVATION		
UNCLASSIFIED		
BORROW		
TOTAL		
EMBANKMENT NET		
ROADWAY (FROM COMPUTER)		
TOTAL		
EMBANKMENT X FACTOR (1.3)		
ROADWAY (FROM COMPUTER)		
TOTAL		

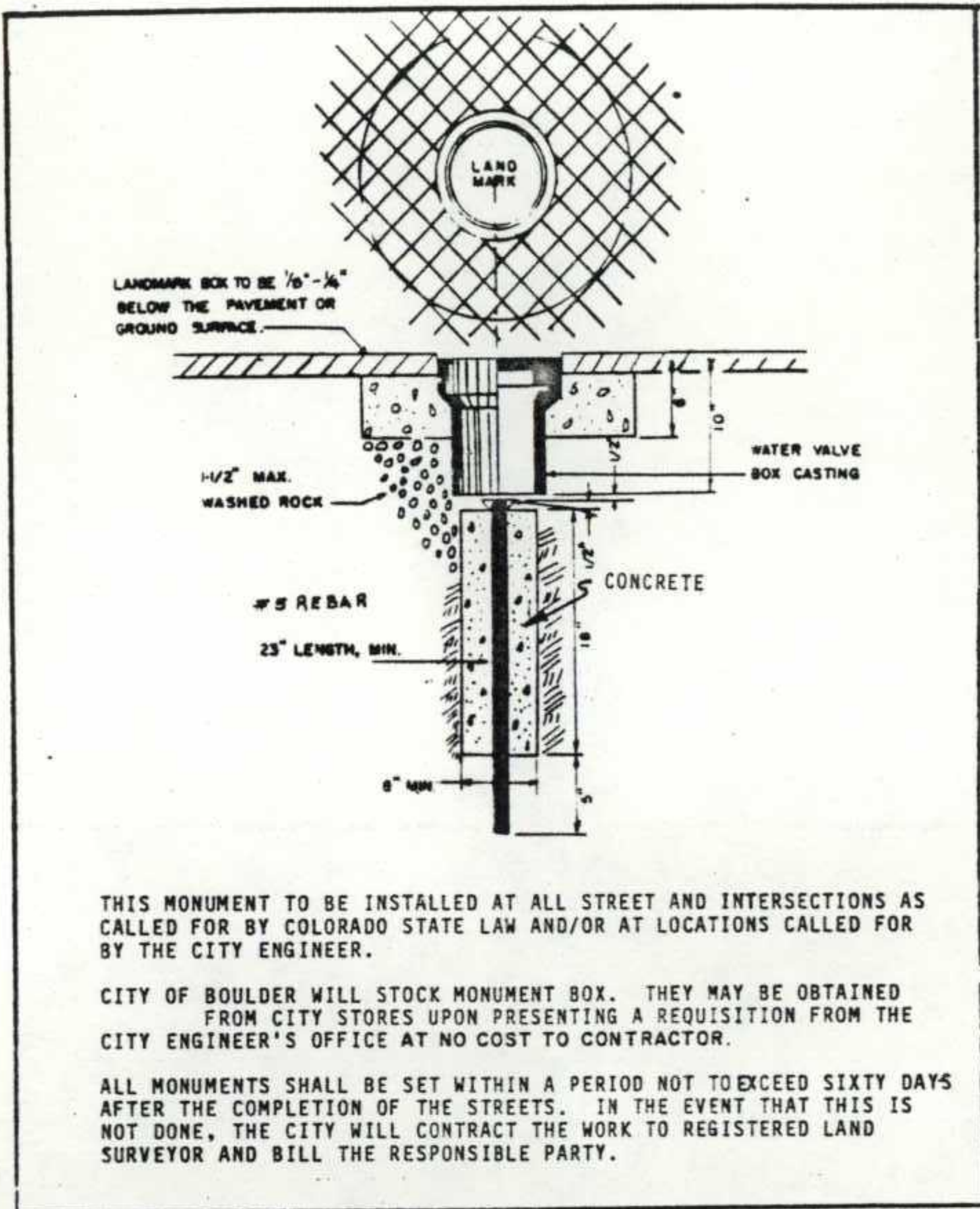
Minimum "R" Value = 37

*FOR 2" THICK LAYER ON THE ISLAND OF HANOVER INTERSECTION

Bottom Layer Includes 3 Lifts totalling 5 inches.

It is Estimated that 75 Tons of HBP (Patching) will be Required as Directed.

FEDERAL ROAD DISTRICT NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	12	
AS CONSTRUCTED				
NO REVISIONS		REVISED	10-14-83	VOID
FRU 093-1(3)				



DETAIL OF
SURVEY MONUMENT

SCHEDULE OF
CONSTRUCTION TRAFFIC SIGNS

SIGN CODE	LEGEND	DIMENSIONS	PANEL SIZE			QUANTITY REQUIRED
			A	B	C	
48W 20-1	ROAD/CONST/ (DIST)	48" x 48"	4	8		
48W 20-7a	FLAGGER SYMBOL	48" x 48"	2	4		
36W 20-50	BE/PREPARED/ TO/STOP	36" x 36"	2	4		
48W 4-2(R)	RIGHT LANE TRANSITION	48" x 48"	2	4		
48W 4-2(L)	LEFT LANE TRANSITION	48" x 48"	3	4		
*48W 20-5()	LANE/ CLOSED/(DIST)	48" x 48"	4			
24R 3-2	NO LEFT TURN SYMBOL	24" x 24"	0	6		
48R 11-2	ROAD/ CLOSED	48" x 30"		2		
36W 20-1	ROAD/CONST/ AHEAD	36" x 36"	0	6		
60G 20-2	END/ CONSTRUCTION	60" x 24"		2		
48W 20-3	ROAD/CONST/ AHEAD	48" x 36"	1	0		
VERTICAL PANEL						100 73
VERTICAL PANEL (LIGHT)(F)						30 38
BARRICADE (3M-B)(TEMP)						2
TRAFFIC CONE						100

*W 20-5() ADVANCE WARNING SIGNS TO BE FURNISHED WITH INTERCHANGEABLE PLAQUES READING "RIGHT", "LEFT" AND "CENTER" AT NO ADDITIONAL EXPENSE.

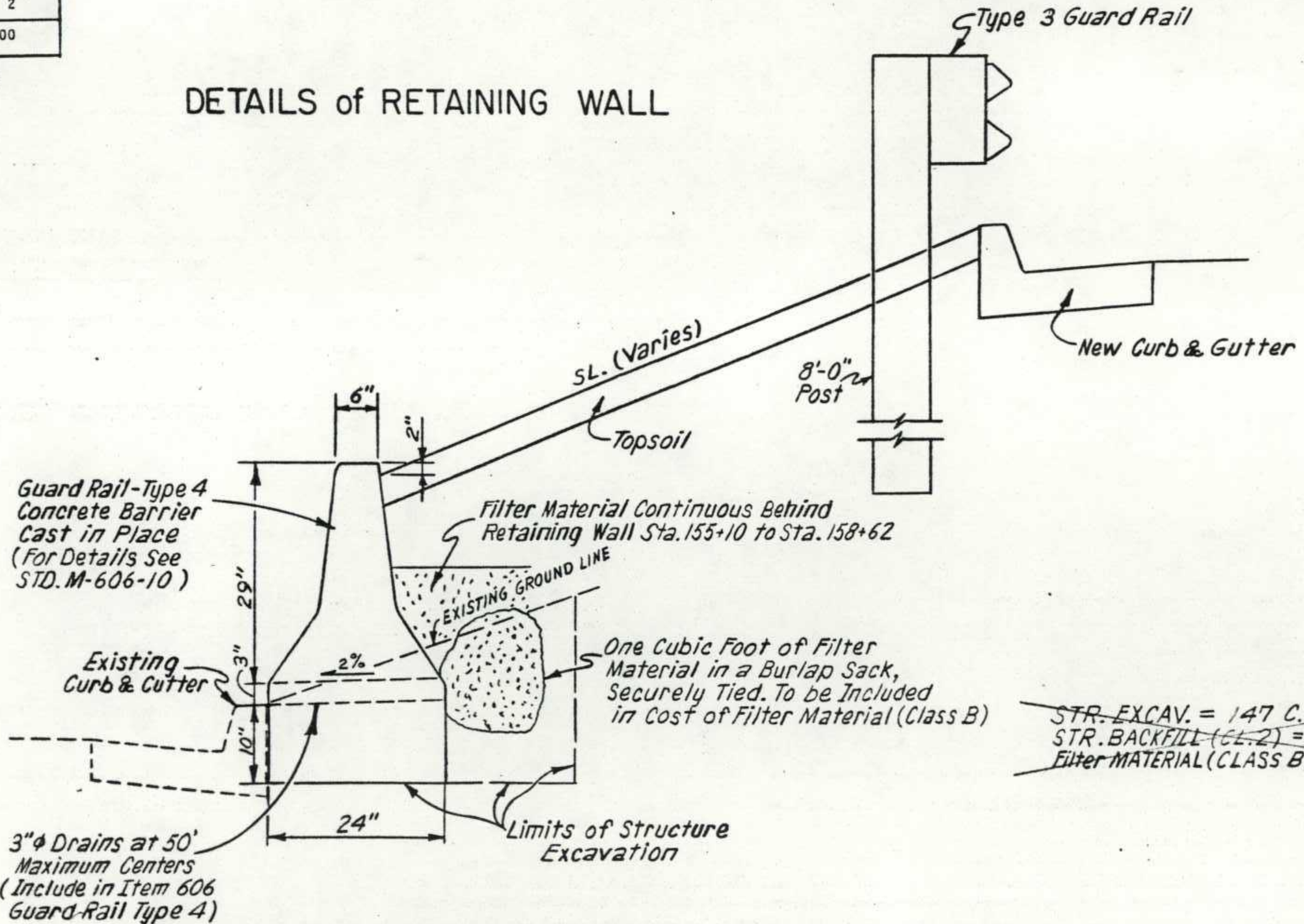
GUARD RAIL TABULATION

STATION	SIDE	GUARD RAIL		END ANCHORS GALVANIZED			
		TYPE 3		TYPE 3 D		TYPE 3 E	
		LIN.FT.		EACH		EACH	
▲ 154+60 To 159+85 ■	LT.	Plan # 525	Final 525	Plan 1	Final 1	Plan 1	Final 0
40 ■ 176+95 To 178+20 ▲	RT.	125	425	1	1	1	1
176+90 ▲ 177+47 To 178+72 ■	LT.	125	220	1	0	1	0
TOTAL		775	1170	3	2	3	1

TYPE 3 D END ANCHOR
TYPE 3 E END ANCHOR
REQUIRES 8'-0" POSTS

MIDDLE 200' LAST 50' OF GUARD RAIL REQUIRES 8'-0" POSTS
GUARD RAIL WILL BE MADE OF GALVANIZED STEEL WEATHERING Refer to CMO 5

DETAILS of RETAINING WALL



STR. EXCAV. = 147 C.Y.
STR. BACKFILL (CL. 2) = 83 C.Y.
Filter MATERIAL (CLASS B) = 21 C.Y.

FINAL QUANTITIES

STATION	SIDE	STR EX	STR BKFL (C12)	FILTER MAT. (Class B)
154+60 To 158+87	LT	139	72	22
178+95 To 179+07	RT	17	6	-
175+60 To 178+00	LT	46	41	11
TOTAL		202	119	33

TYPE 4 GUARD RAIL
(RETAINING WALL)

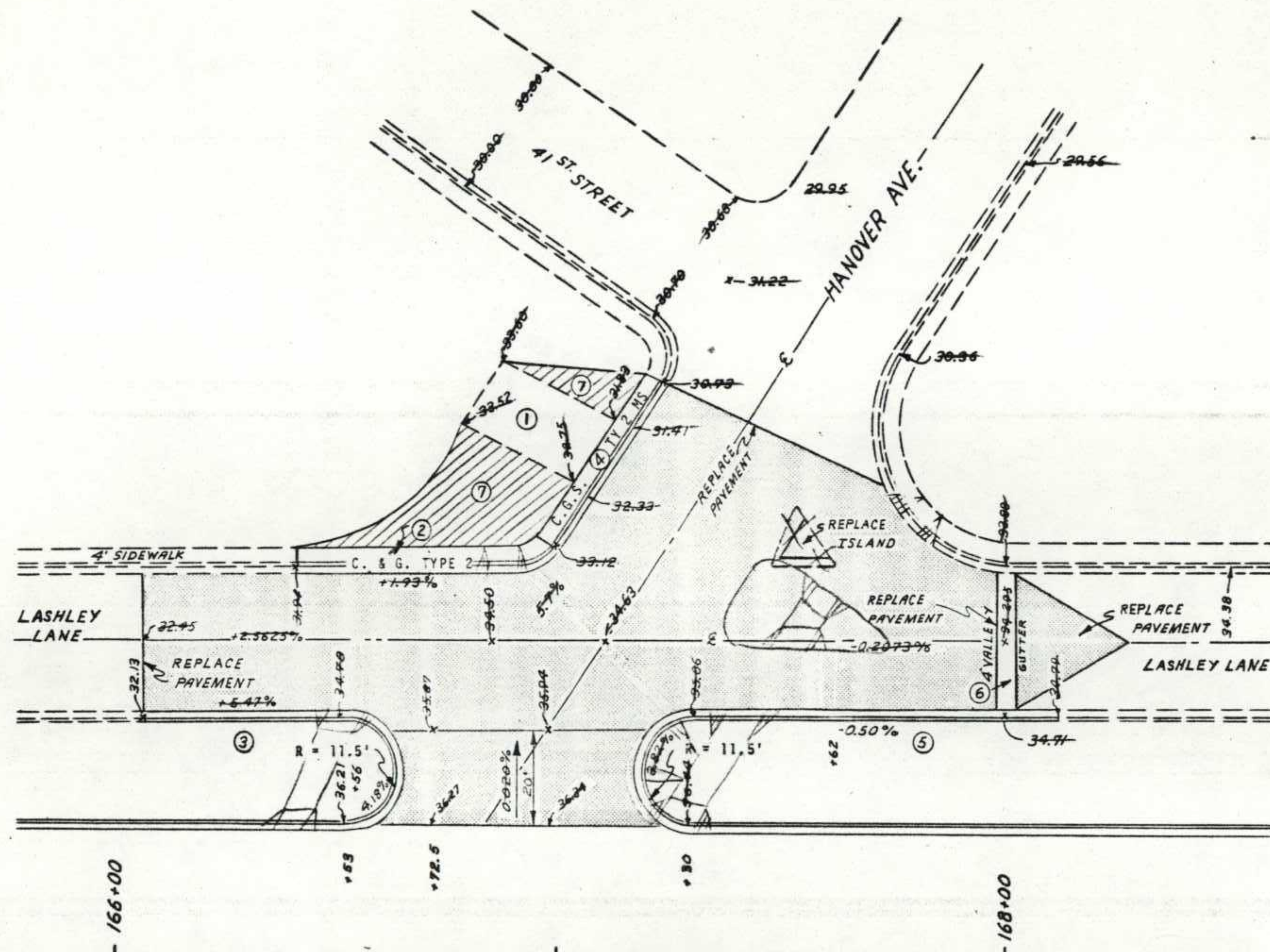
STATION	SIDE	GUARD RAIL TYPE 4 CONCRETE BARRIER (CAST IN PLACE)	
		LINE FT.	FINAL FT.
154+60 To 159+12	LT.	452	427
178+95 To 178+75	RT.	60	40
175+60 To 178+00	LT	0	234
TOTAL		512	701

* INCLUDES 1-12' END SECTION

* Added CMO 9206

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	13	
AS CONSTRUCTED				
NO REVISIONS ☐ REVISED 10-14-83 VOID ☐				
FRU 093-1(3)				

HANOVER INTERSECTION
LT. SIDE



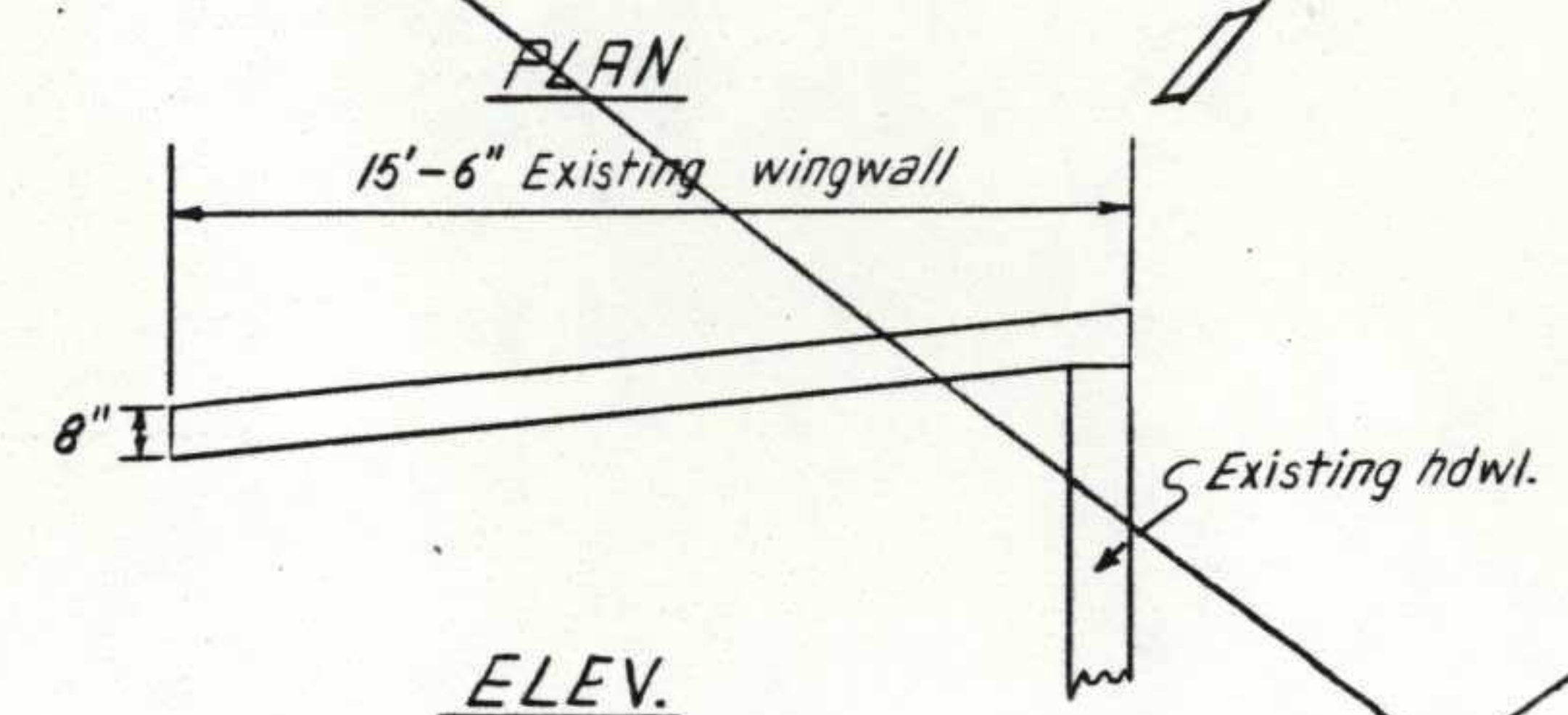
ORIGINAL SCALE
1 IN. = 20 FT.

- ① REMOVE AND REPLACE DRIVEWAY.
- ② REMOVE AND REPLACE C. & G., SIDEWALK.
- ③ REMOVE AND REPLACE C. & G.
- *④ REMOVE AND REPLACE C.G. & SIDEWALK.
- ⑤ REMOVE AND REPLACE C. & G.
- ⑥ NEW VALLEY GUTTER.
- ⑦ GRADE.

*STANDARD M-609-A, CURB AND GUTTER (TYPE 2)(4" MOUNTABLE WITH SIDEWALK)
(SPECIAL THIS PROJECT)(SECTION M S)

IT IS ESTIMATED 120 SQ. YDS. OF REMOVAL OF ASPHALT MAT WILL BE REQUIRED FOR ABOVE INTERSECTION.

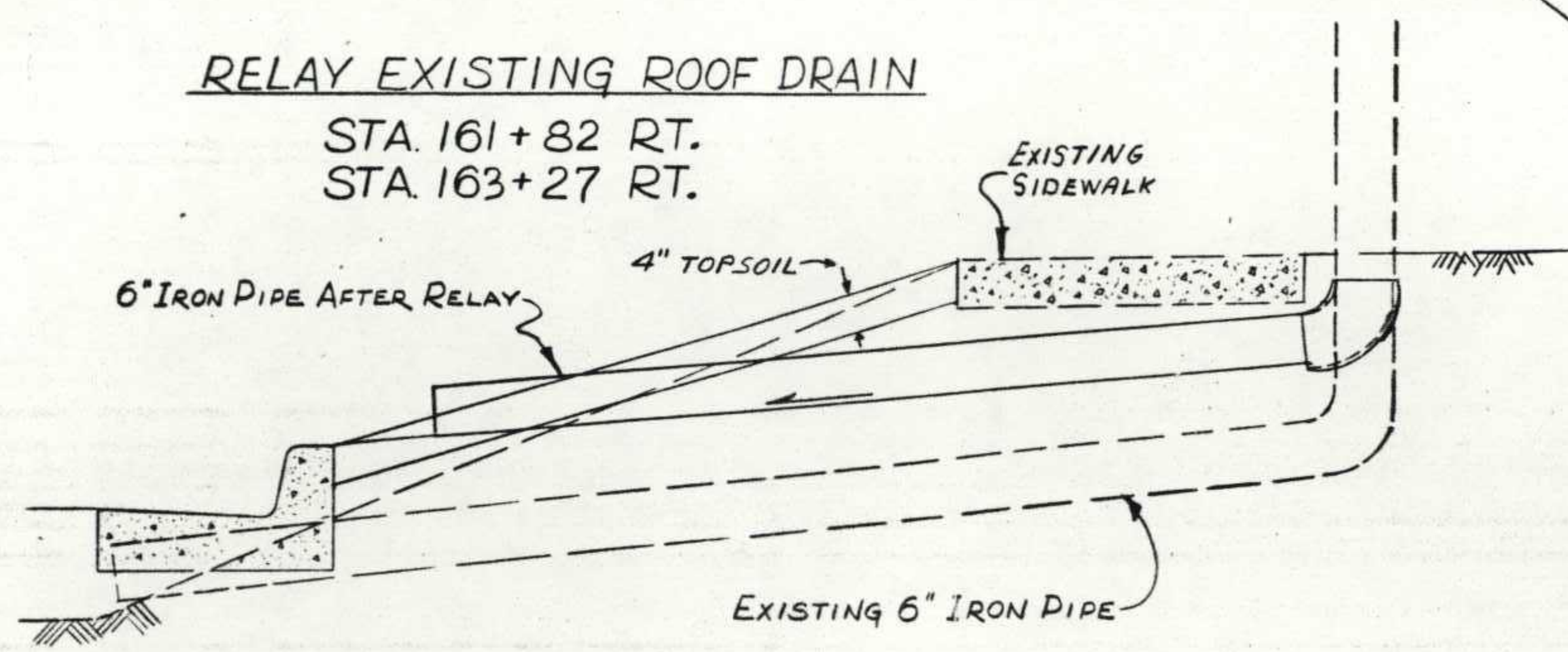
DETAILS OF WINGWALL &
HEADWALL EXTENSION
STA. 177+68 RT.



QUANTITIES FOR WING
601 Concrete Class A (Misc.) 6 Cu.Yd.
602 Reinforcing Steel 25 LBS.
NOTE: Cleaning wing surface, drilling holes, grouting, epoxy, etc. to be included in item 601.

⊗ Clean. Paint (approved epoxy bonded) after placing # 4 dowels in wing.

RELAY EXISTING ROOF DRAIN
STA. 161+82 RT.
STA. 163+27 RT.



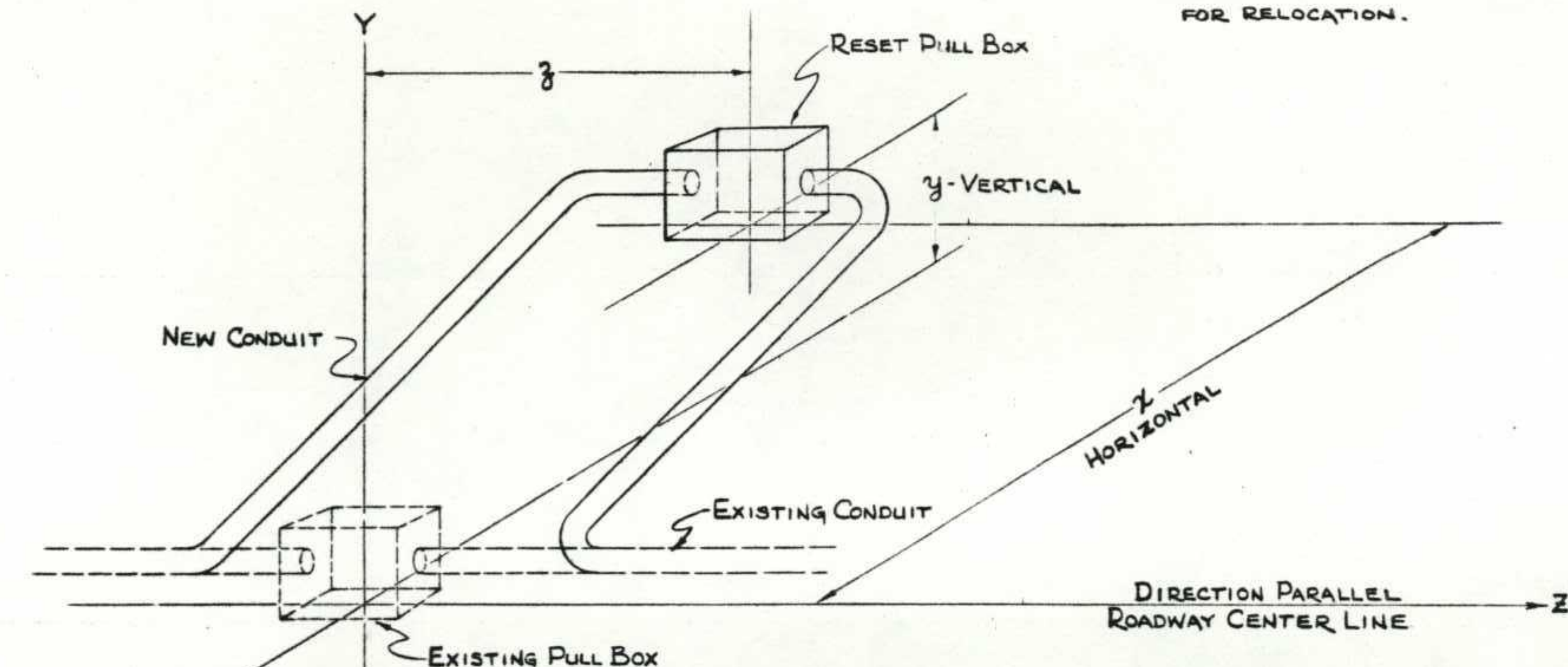
FRU 093-1(3)

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0304 (11)	14	
AS CONSTRUCTED				
NO REVISIONS ☐ REVISED ☐ 10-1-83 VOID ☐				

MEDIAN COVER MATERIAL

STATION	SIDE	PLAN PATTERNED CONCRETE	FINAL PATTERNED CONCRETE
		Sq. Ft.	Sq. Ft.
152 + 52.5 TO 158 + 99.5	MEDIAN	2989	3054
159 + 68.5 TO 165 + 70.5	MEDIAN	1805	1800
HANOVER ST.	ISLANDS	-0-	680
TOTAL		4794	5534

NOTE: COST OF RESETTING PULL BOX INCLUDES CONDUIT AND ALL INCIDENTALS FOR RELOCATION.

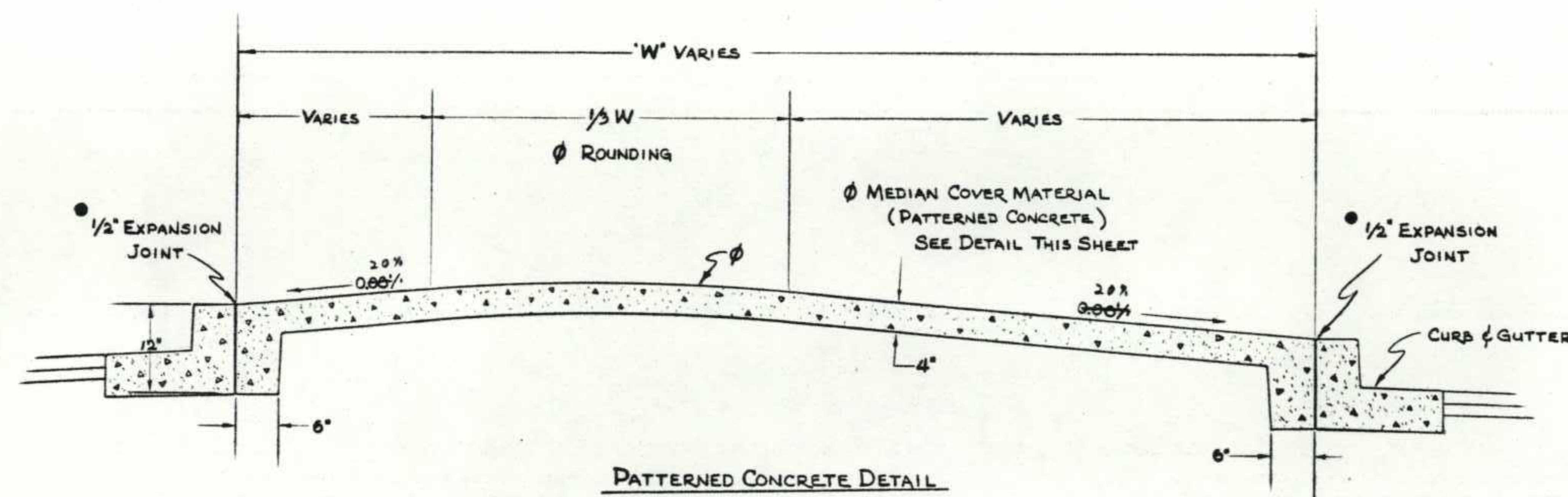


DETAIL OF RESET FOR PULL BOX (Paid For as Reset Structure)

* DESIGN DATA OF PULL BOX RESET

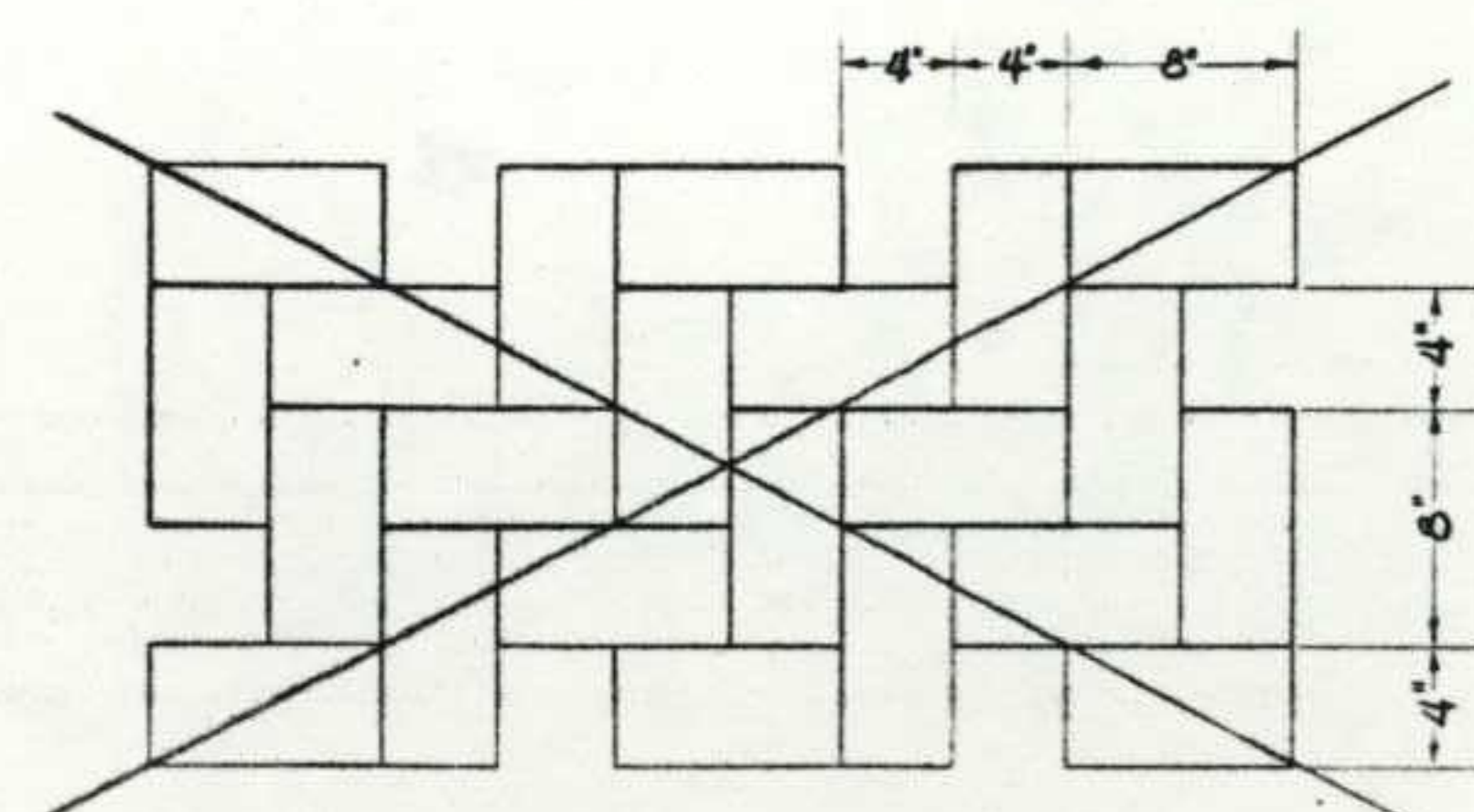
STATION	SIDE	EXISTING OFF SET	RESET			TOP ELEV.
			X	Y	Z	
157 + 15	LT.	22'	23.0'	-0.6'	0'	5428.2'
158 + 20	LT.	43'	1.3'	4.6'	0'	5429.2'
158 + 90	LT.	47'	0'	3.6'	0'	5428.6'

* ALL DIMENSIONS ARE APPROXIMATE.

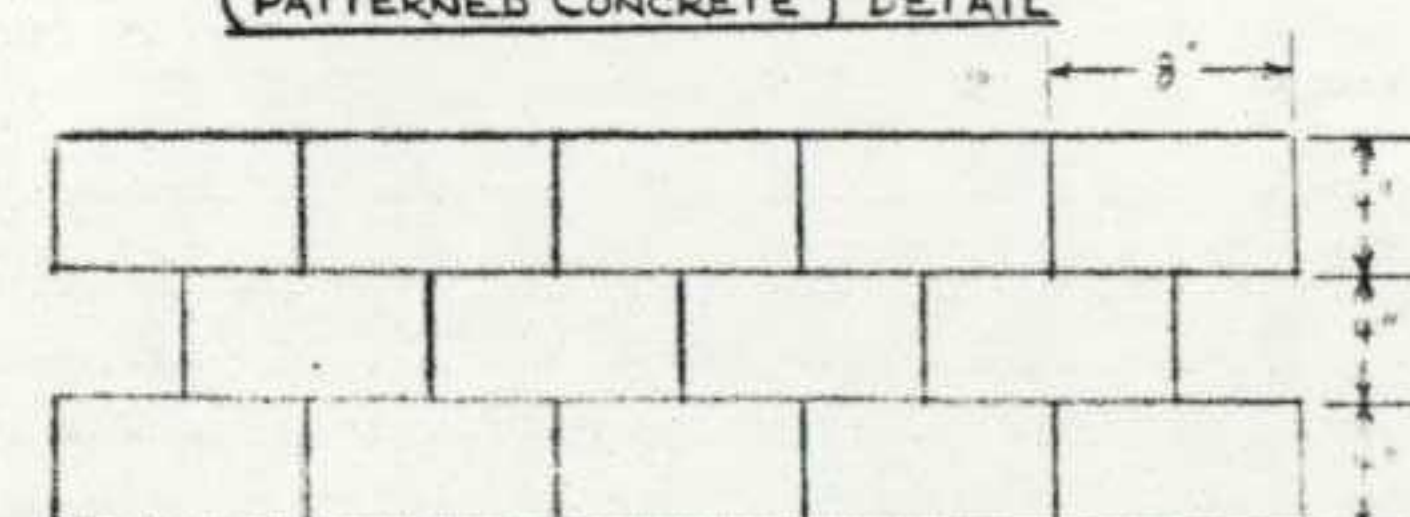


PATTERNED CONCRETE DETAIL

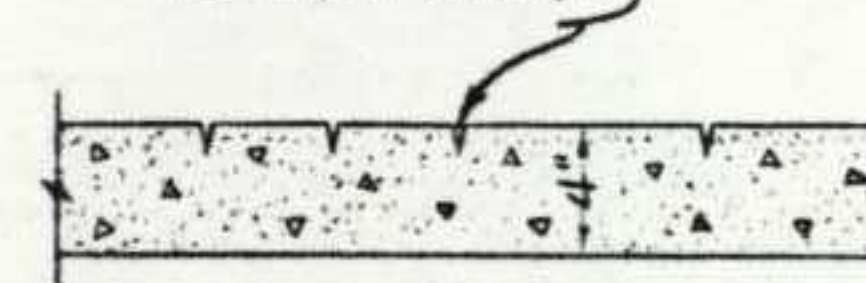
To be Included in the Cost of Item 610, Median Cover Material (Patterned Concrete)



MEDIAN COVER MATERIAL (PATTERNED CONCRETE) DETAIL



PATTERNED CONCRETE WILL HAVE RECESSED GROOVES WITH A MINIMUM DEPTH OF 1 INCH.

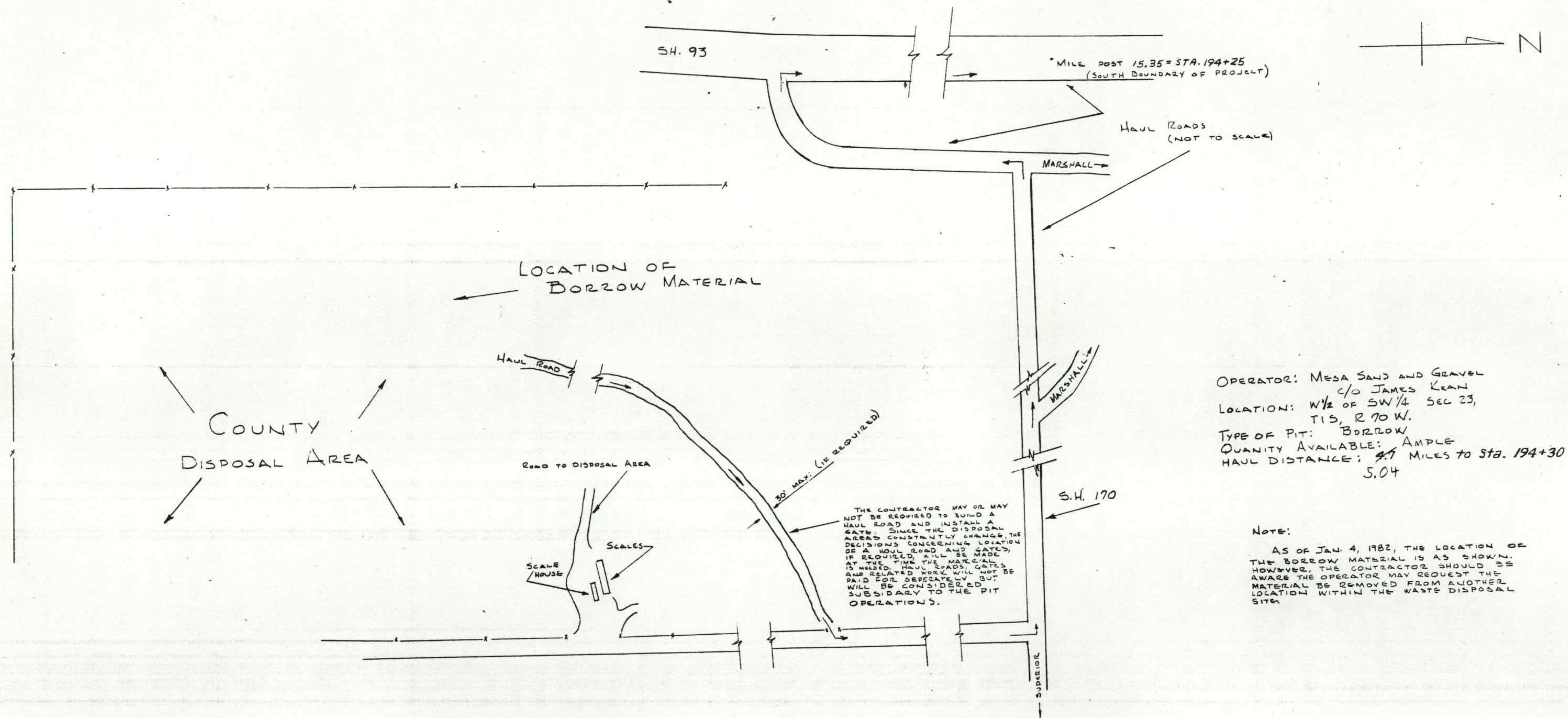


FRU 093-1(3)

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
VIII	COLORADO	FRU 093-1(3) PM3 0004(11)	15

AS CONSTRUCTED			
NO REVISIONS		REVISED 10-14-83	VOID

BORROW PIT SKETCH



OPERATOR: MESA SAND AND GRAVEL
C/O JAMES KEAN
LOCATION: W¹/₂ OF SW¹/₄ SEC 23,
T1S, R70W.
TYPE OF PIT: BORROW
QUANTITY AVAILABLE: AMPLE
HAUL DISTANCE: 4.7 MILES TO STA. 194+30
5.04

NOTE:
AS OF JAN. 4, 1982, THE LOCATION OF THE BORROW MATERIAL IS AS SHOWN. HOWEVER, THE CONTRACTOR SHOULD BE AWARE THE OPERATOR MAY REQUEST THE MATERIAL BE REMOVED FROM ANOTHER LOCATION WITHIN THE WASTE DISPOSAL SITE.

STANDARD CURBS AND GUTTERS

STANDARD M-609-A

(JANUARY, 1980)

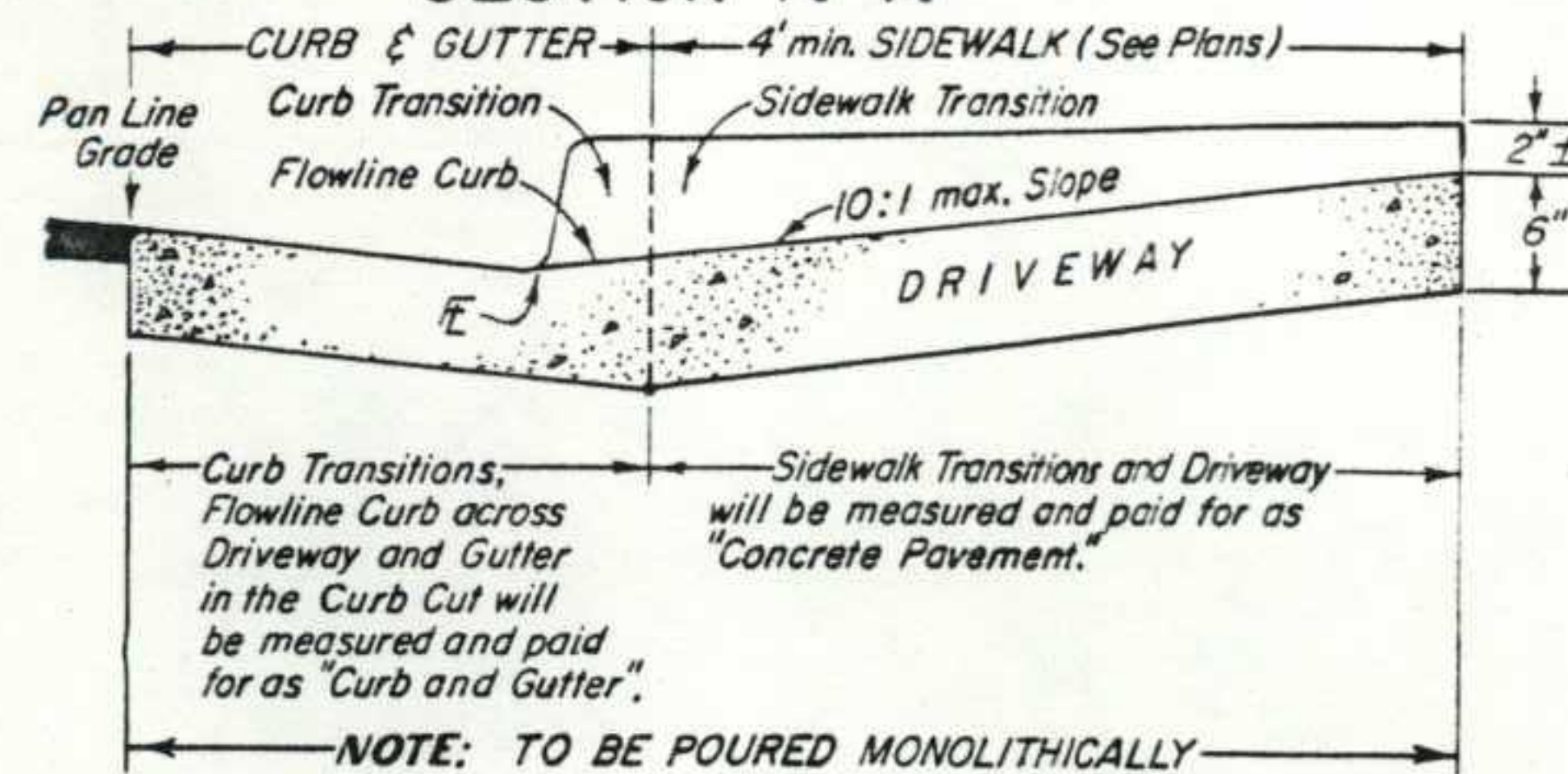
(SPECIAL THIS PROJECT)

FED. ROAD REG. NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.
VIII	COLO.	FRU 093-1(3) PMS 0004 (11)	16

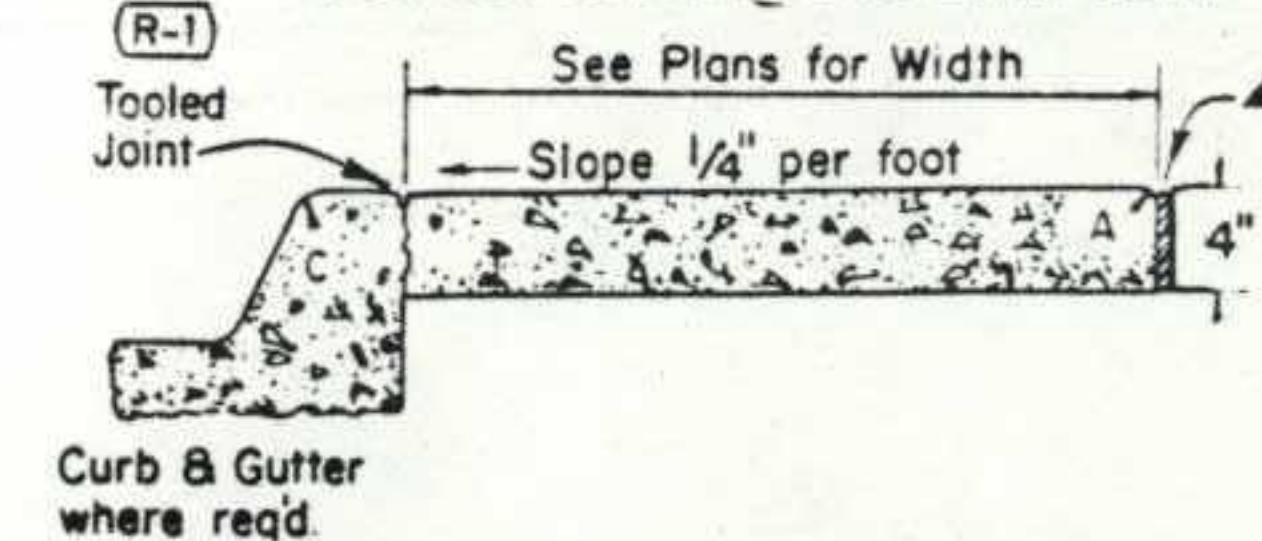
REVISIONS
(R-1) 3-6-80 Tooled Joint in Concrete Sidewalk. T.A.L.

AS CONSTRUCTED
NO REVISIONS 10-14-83 REVISED VOID

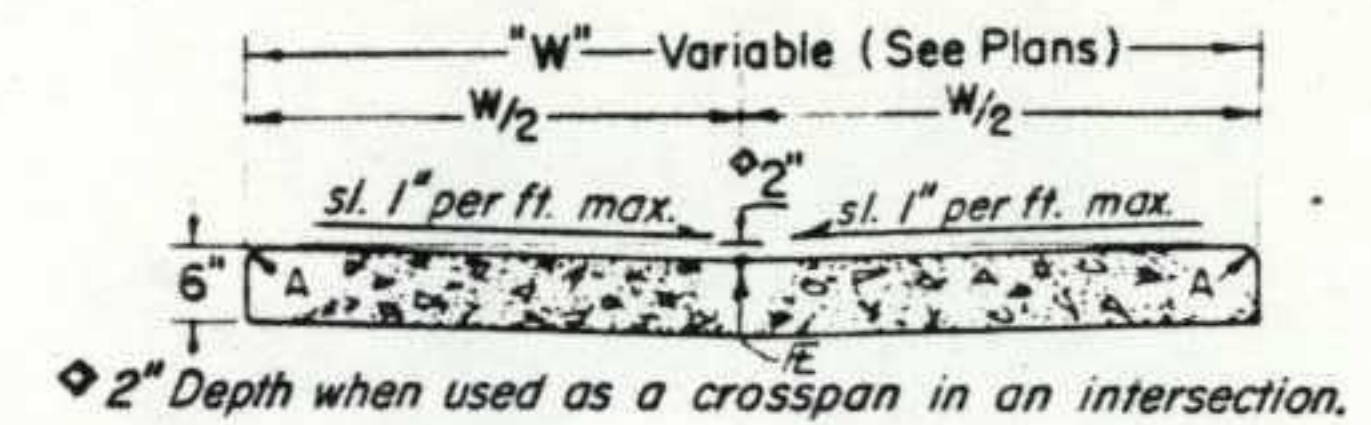
CONCRETE PAVEMENT (DRIVEWAYS) SECTION A-A



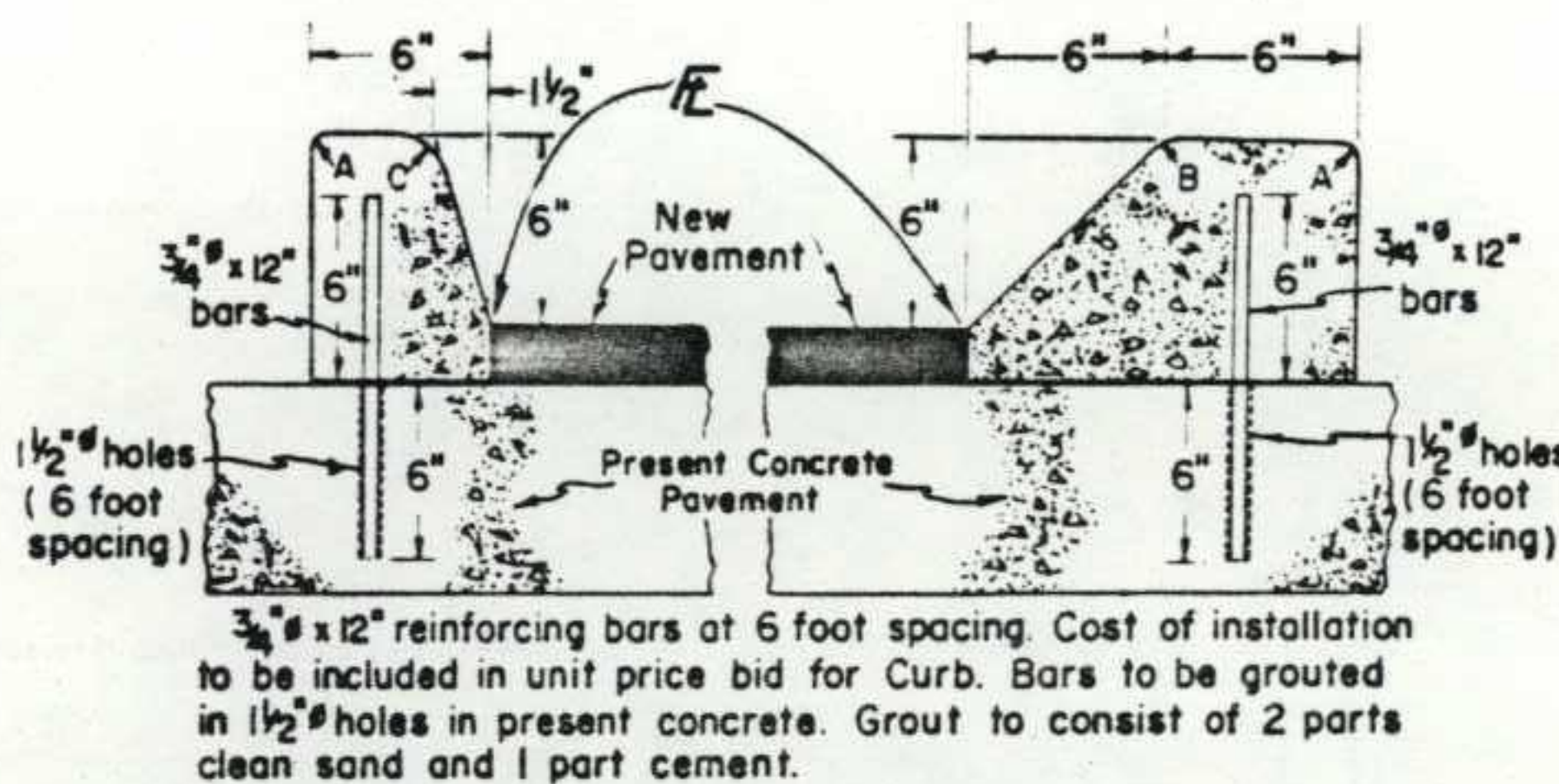
CONCRETE SIDEWALK



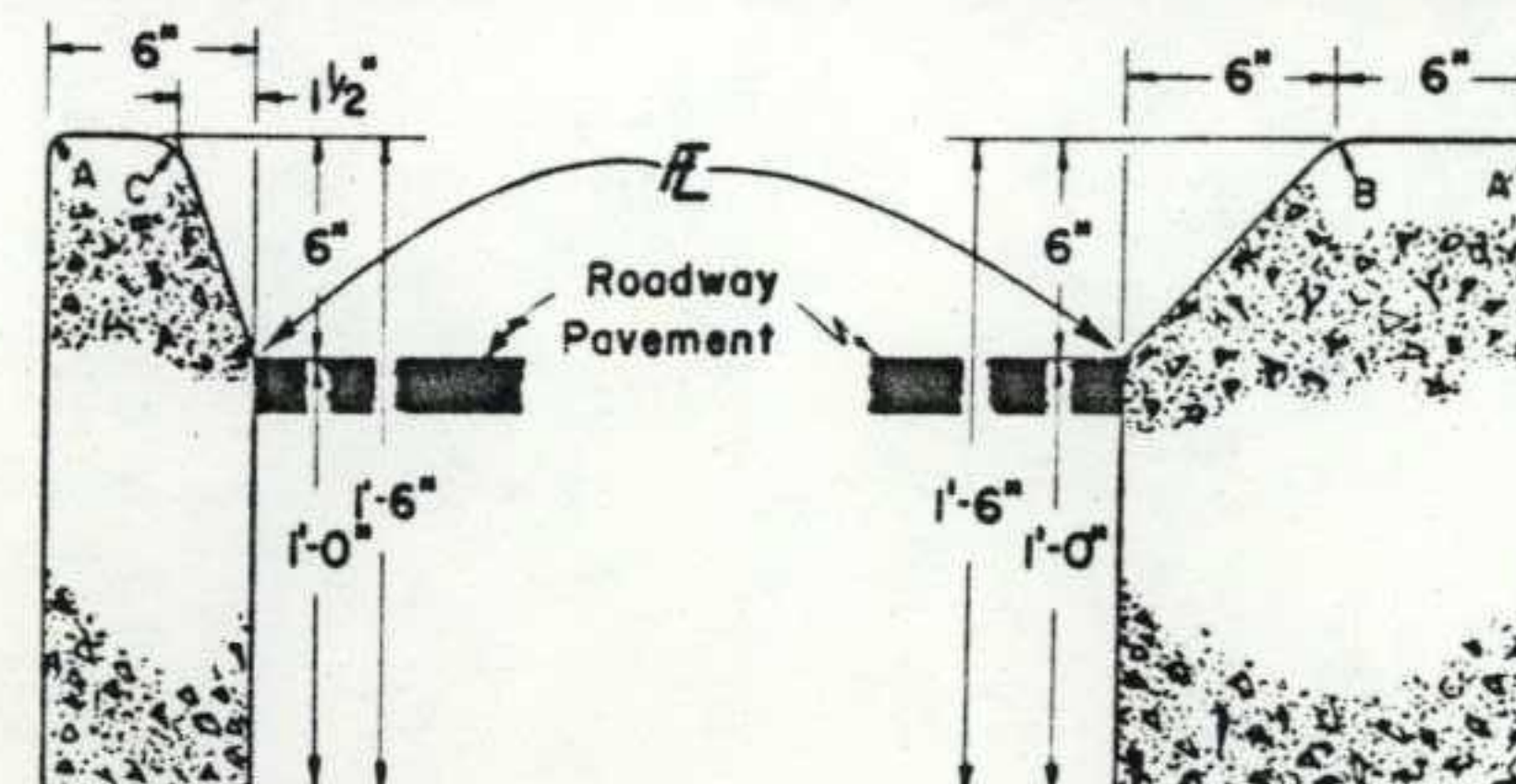
GUTTER Type 2



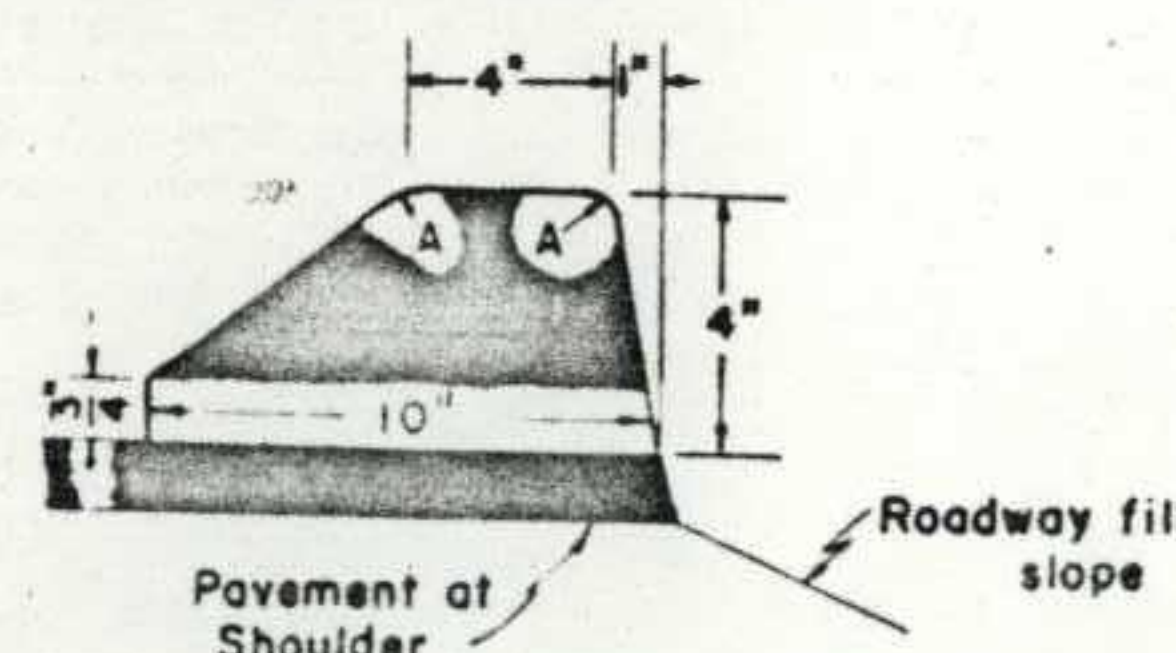
CURB Type 4 (6" Barrier) (Section B) Curb Type 4 (6" Mountable) (Section M)



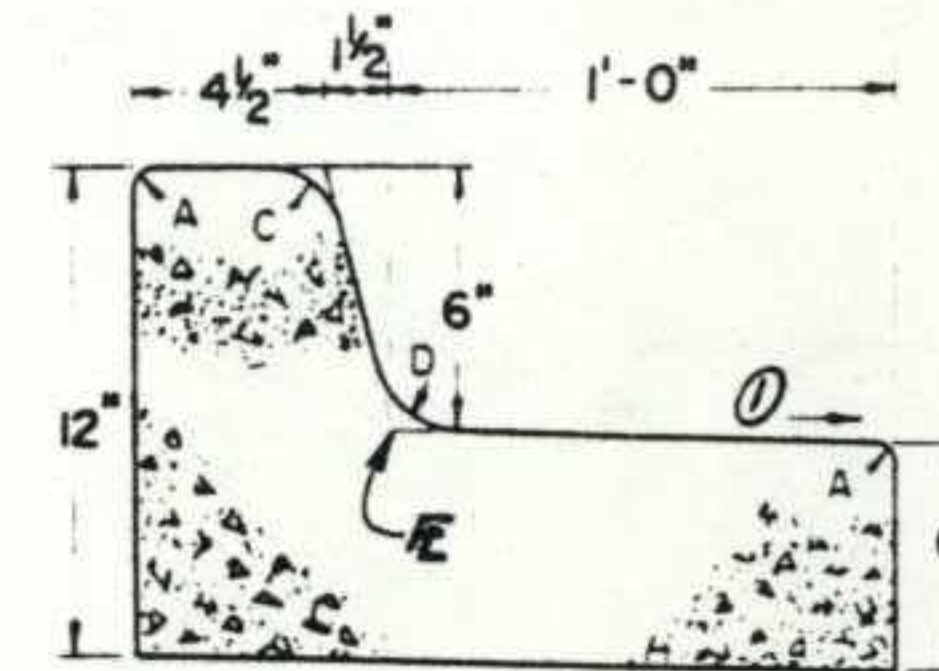
CURB Type 2 (6" Barrier) (Section B) Curb Type 2 (6" Mountable) (Section M)



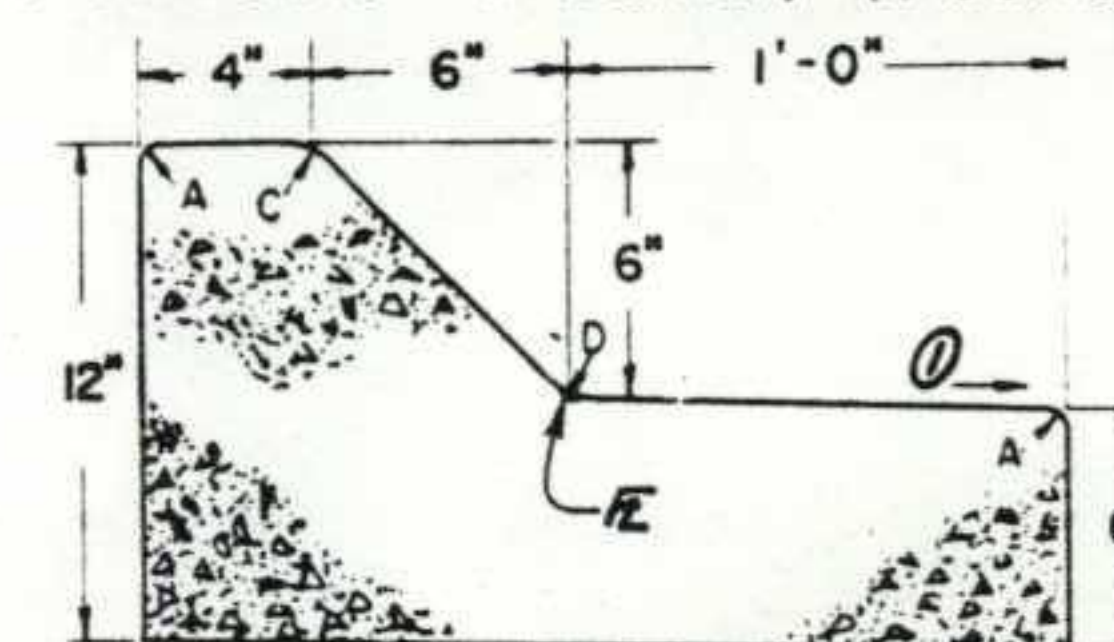
CURB Type 6 (4" Mountable) (Section M)



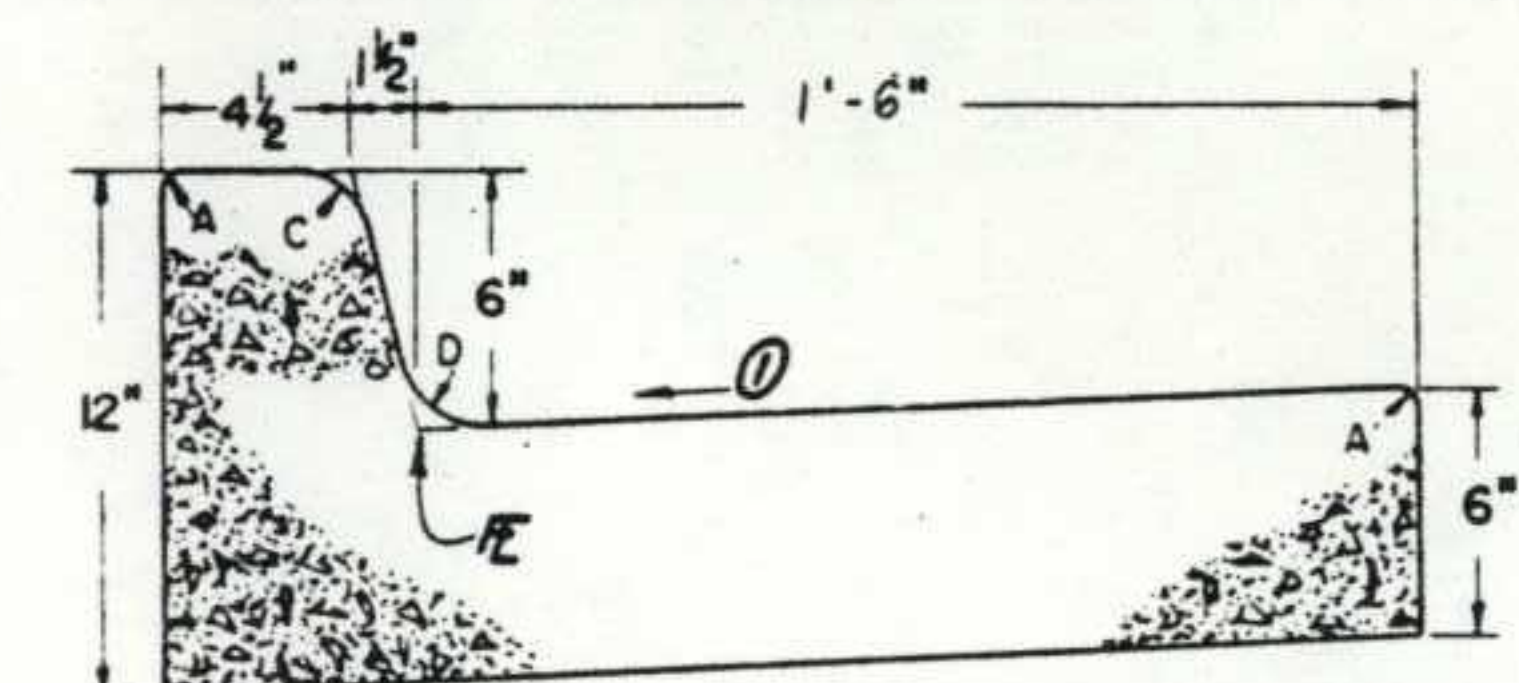
CURB AND GUTTER Type 2 (6" Barrier - 1' Gutter) (Section IB)



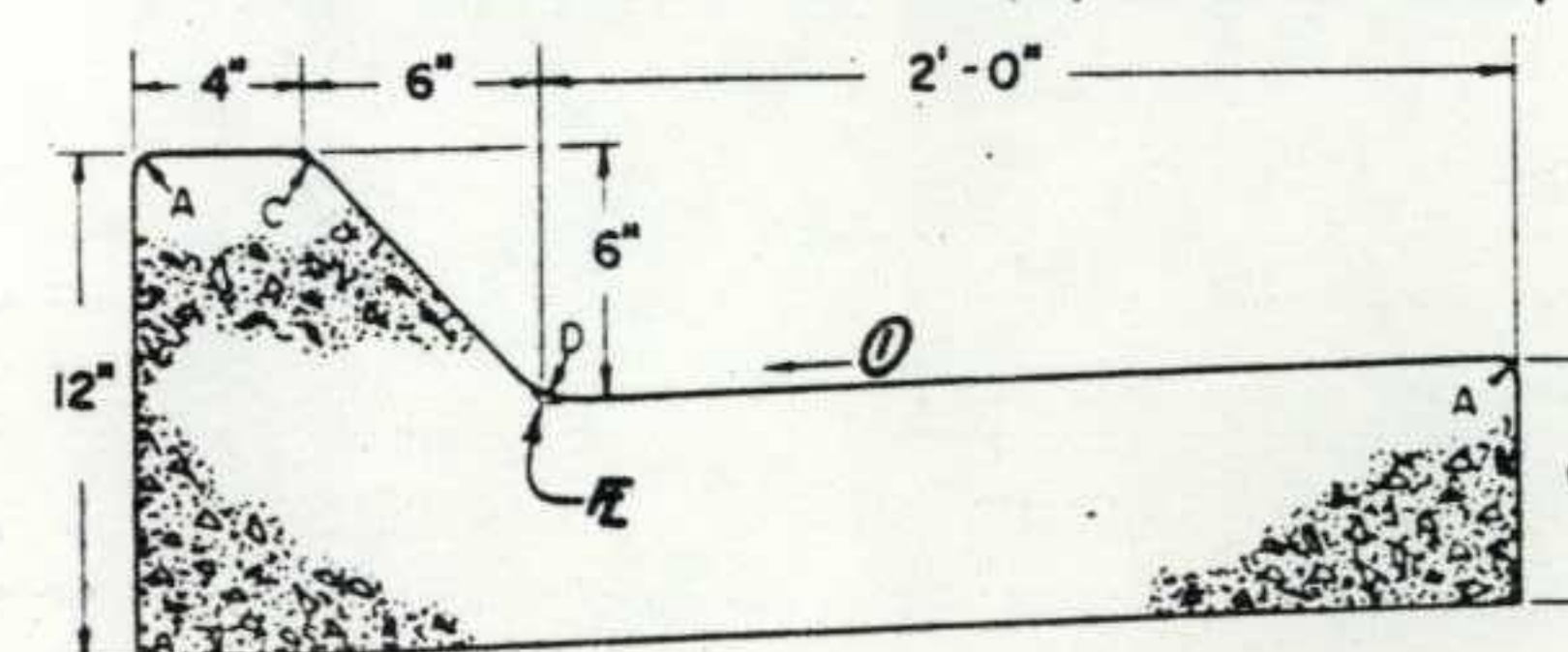
CURB AND GUTTER Type 2 (6" Mountable - 1' Gutter) (Section IM)



CURB AND GUTTER Type 2 (6" Barrier - 2' Gutter) (Section IB)



CURB AND GUTTER Type 2 (6" Mountable - 2' Gutter) (Section IM)



GENERAL NOTES

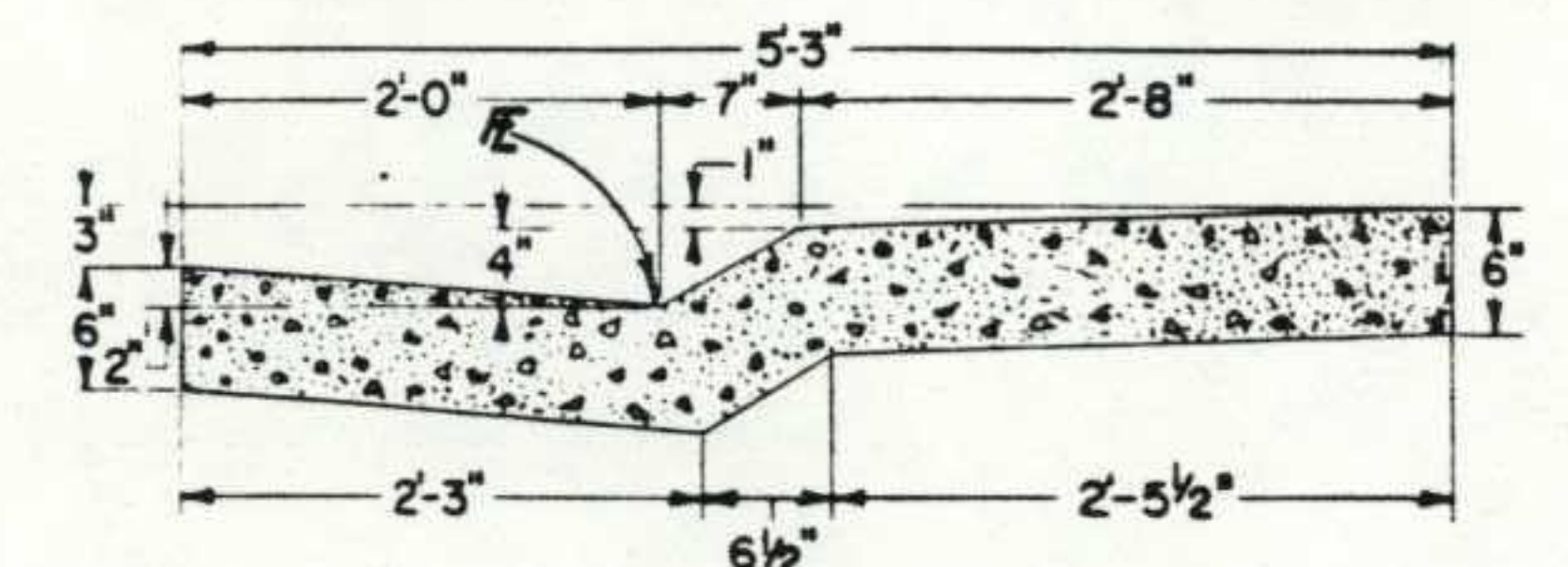
All work shall be done in accordance with the Standard Specifications applicable to the project.

On Curves 3 degrees and sharper, Curbs and/or Gutters are to be placed on the Arc of the Curve unless otherwise noted on plans. A maximum chord length of 10 feet may be used when the degree of curve is less than 3 degrees.

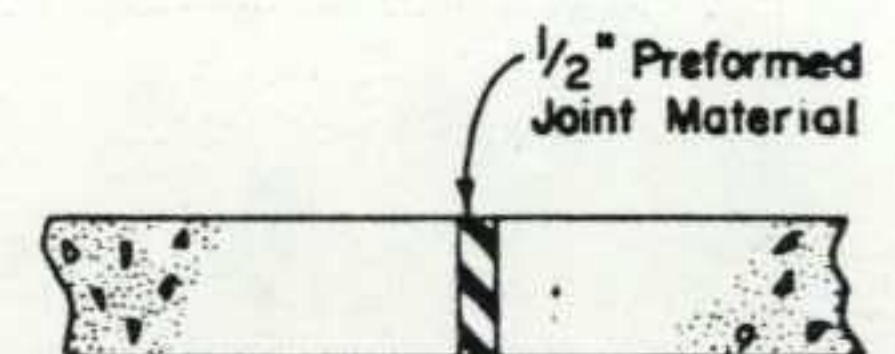
Expansion Joints shall be installed when abutting concrete or a fixed structure. Expansion Joint material shall be 1/2" thick and shall extend the full depth of contact surface.

Concrete shall be Class A or B.

CURB AND GUTTER (Type 2) (4" Mountable with Sidewalk) (Section MS)



SIDEWALK EXPANSION JOINT



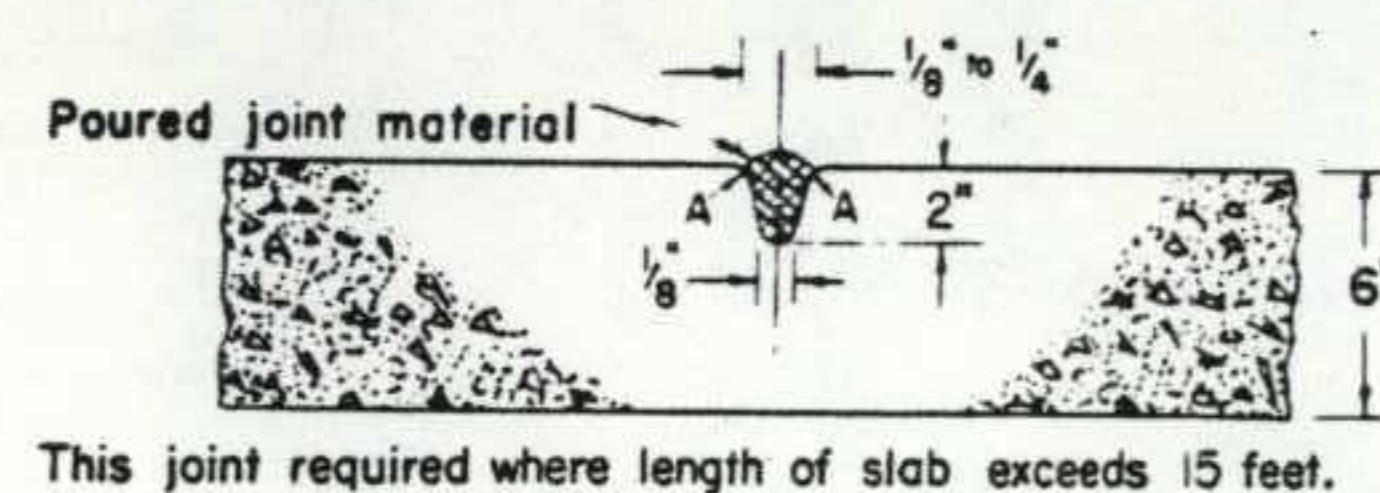
Note: Expansion Joints shall be placed in the Sidewalk at intervals of not more than 100 ft.

GENERAL NOTES (Continued)

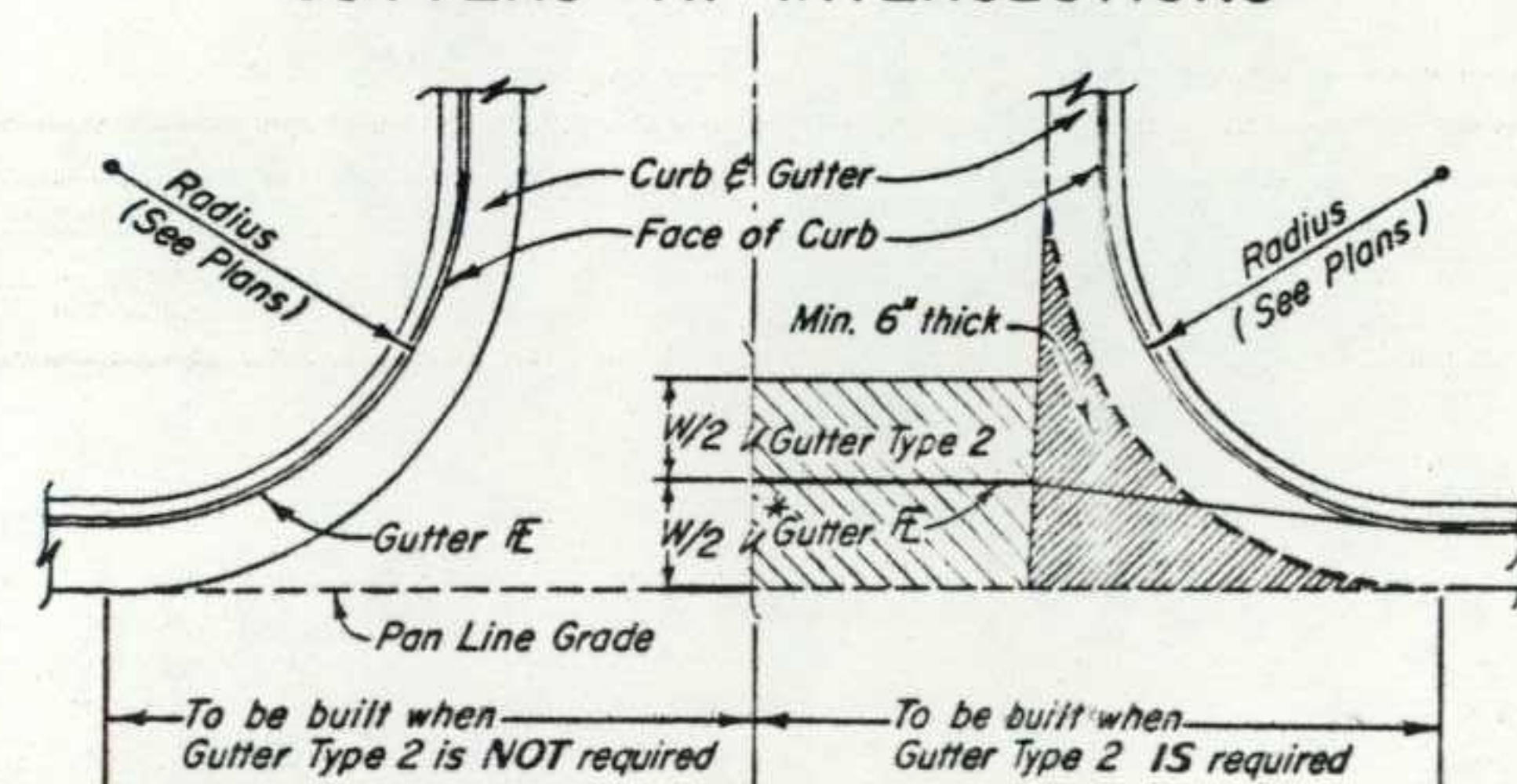
Gutter Cross Slopes shall be 1/2"/ft. when draining away from Curb and 1"/ft. when draining toward Curb.

Profile Grade of Curbs and Gutters shall be located at the Flow Line.

TRANSVERSE CONTRACTION JOINT FOR CONCRETE PAVEMENT (DRIVEWAYS)



CONSTRUCTION OF CONCRETE GUTTERS AT INTERSECTIONS



This area shall be poured monolithically with Curb and Gutter and paid for as "Concrete Pavement."

* Flow Line location will be established by W/2 shown on plans.

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
DIVISION OF HIGHWAYS

CURBS AND GUTTERS

Designed by *[Signature]*
Made by *[Signature]*
Checked by *[Signature]*

Approved by *[Signature]*
Staff Design Engr
Date: July 1, 1980

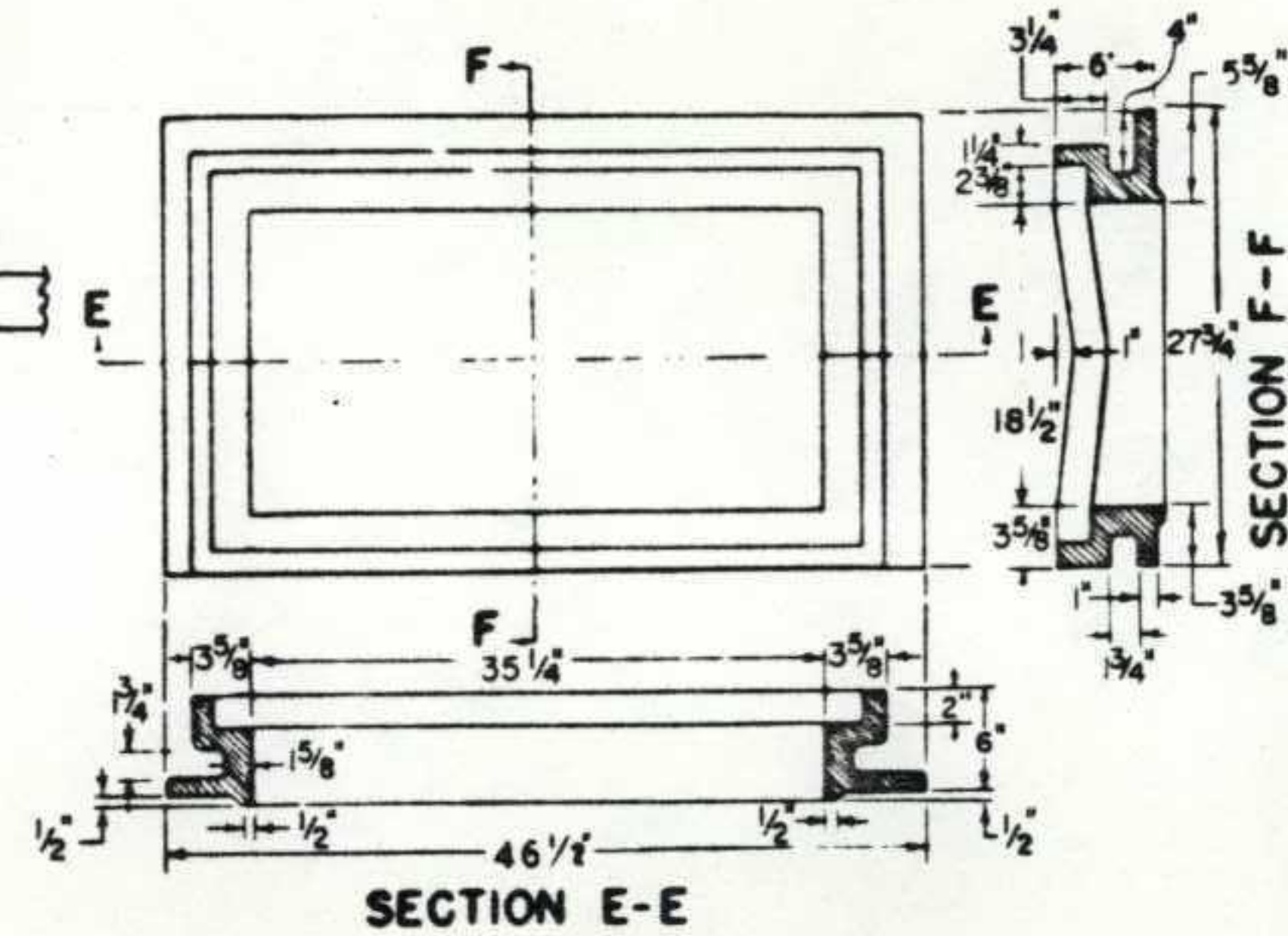
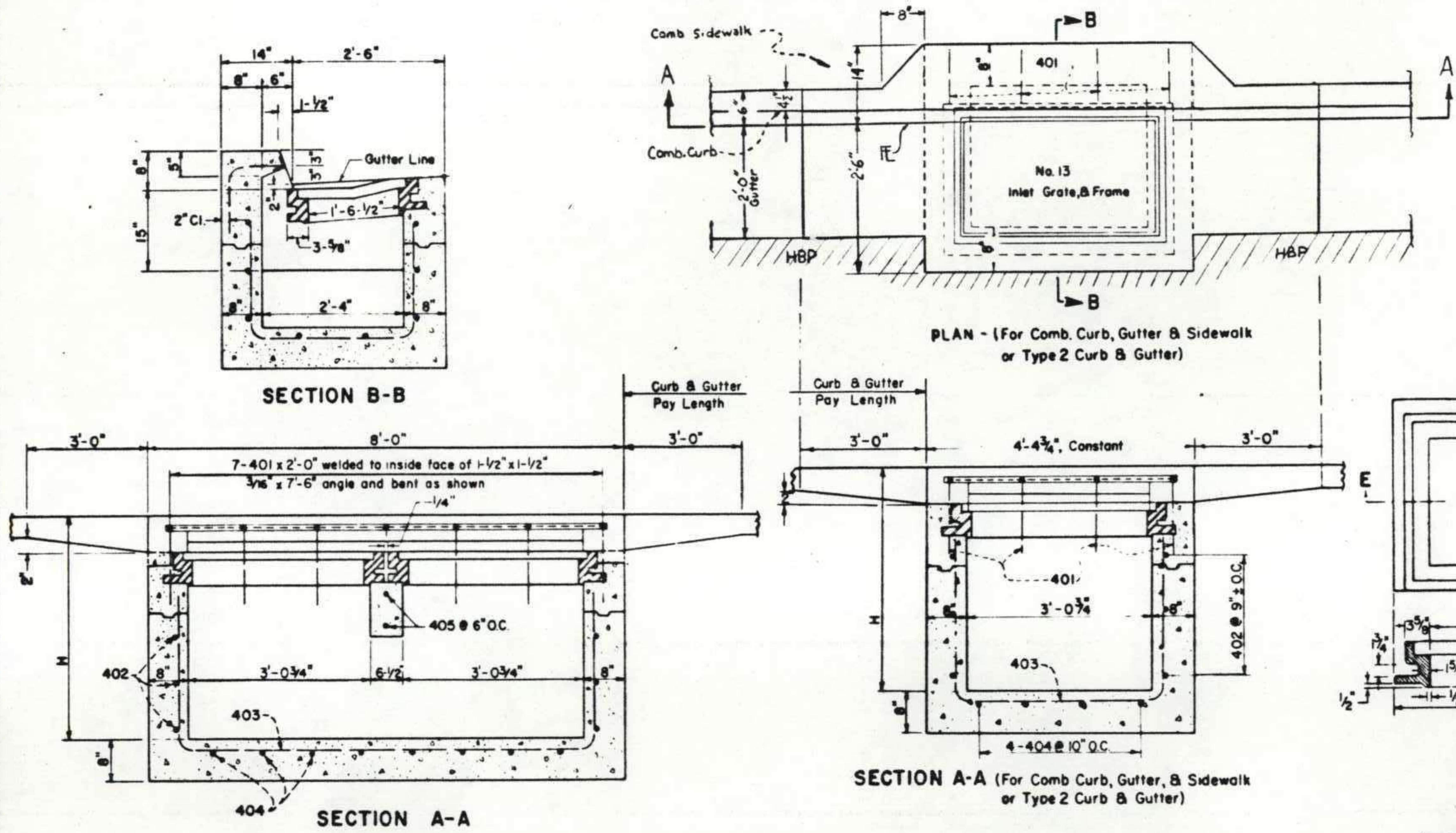
FEDERAL ROAD REGION NO	DIVISION	COMBINED PROJ.NO'S.	SHEET NO	TOTAL SHEETS
XXX	COLORADO	FRU 093-1(3) PMS 0004(11)	17	
AS CONSTRUCTED				
NO REVISIONS	10-14-83	REVISED		VOID

QUANTITIES					
H	NO.OF 402 BARS REQ'D	TYPE 3 INLET		TYPE 3 DOUBLE INLET	
		CLASS A	REINFORCING	CLASS A	REINFORCING
		CONCRETE	STEEL	CONCRETE	STEEL
		ICU. YD.	Ø LB.	ICU. YD.	Ø LB.
3'-0"	3	1.30	64.29	2.20	110.77
3'-6"	4	1.47	78.35	2.51	132.47
4'-0"	4	1.64	82.40	2.82	139.22
4'-6"	5	1.81	96.46	3.13	160.92
5'-0"	6	1.98	110.51	3.44	182.63
5'-6"	6	2.15	114.56	3.75	189.38
6'-0"	7	2.32	128.62	4.06	211.08
6'-6"	8	2.49	142.68	4.37	232.78
7'-0"	8	2.66	146.73	4.68	239.53
7'-6"	9	2.83	160.79	4.99	261.24
8'-0"	10	3.00	174.85	5.30	282.94
8'-6"	10	3.17	178.90	5.61	289.69
9'-0"	11	3.34	192.96	5.92	311.39
9'-6"	12	3.51	207.02	6.23	333.10
10'-0"	12	3.68	211.07	6.54	339.84

θ Includes 1% for overrun.
Σ Includes volume occupied by pipes.

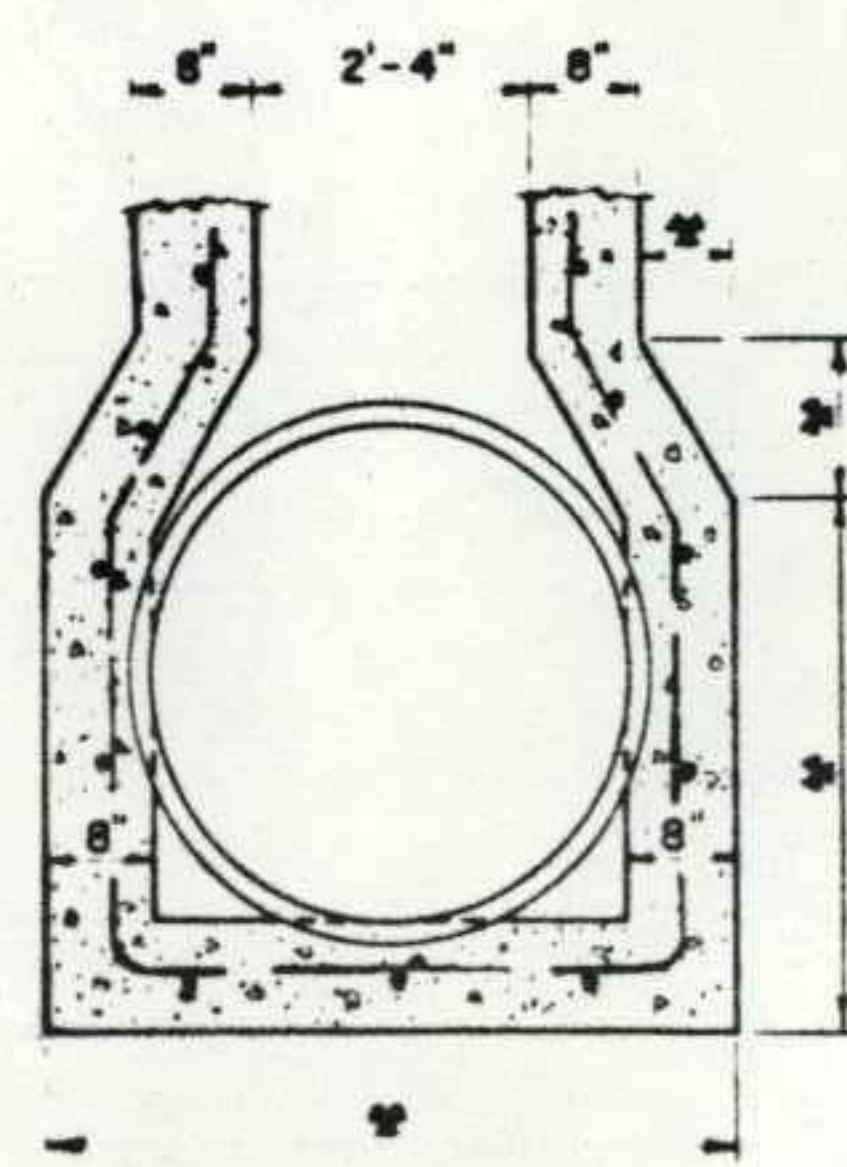
MARK	TYPE	NO. REQ'D.	TYPE 3 INLET DIMENSIONS		LENGTH	NO. REQ'D.	TYPE 3 DOUBLE INLET DIMENSIONS		LENGTH
			x	y			x	y	
401	I	4	1'-0"	1'-0"	2'-0"	7	1'-0"	1'-0"	2'-0"
402	II	3	3'-7 1/4"	2'-10 1/2"	14'-11 1/2"	3	7'-2 1/2"	2'-10 1/2"	22'-2"
403	III	2	3'-5 3/4"	* 2'-0 1/2"	7'-6 3/4"	2	7'-1"	* 2'-0 1/2"	11'-2"
404	III	4	2'-9"	* 2'-1"	6'-11"	8	2'-9"	* 2'-1"	6'-11"
405	STR.					2			3'-0"

* Add 6" to this dimension for each 6" increase in "H" above 3'-0".



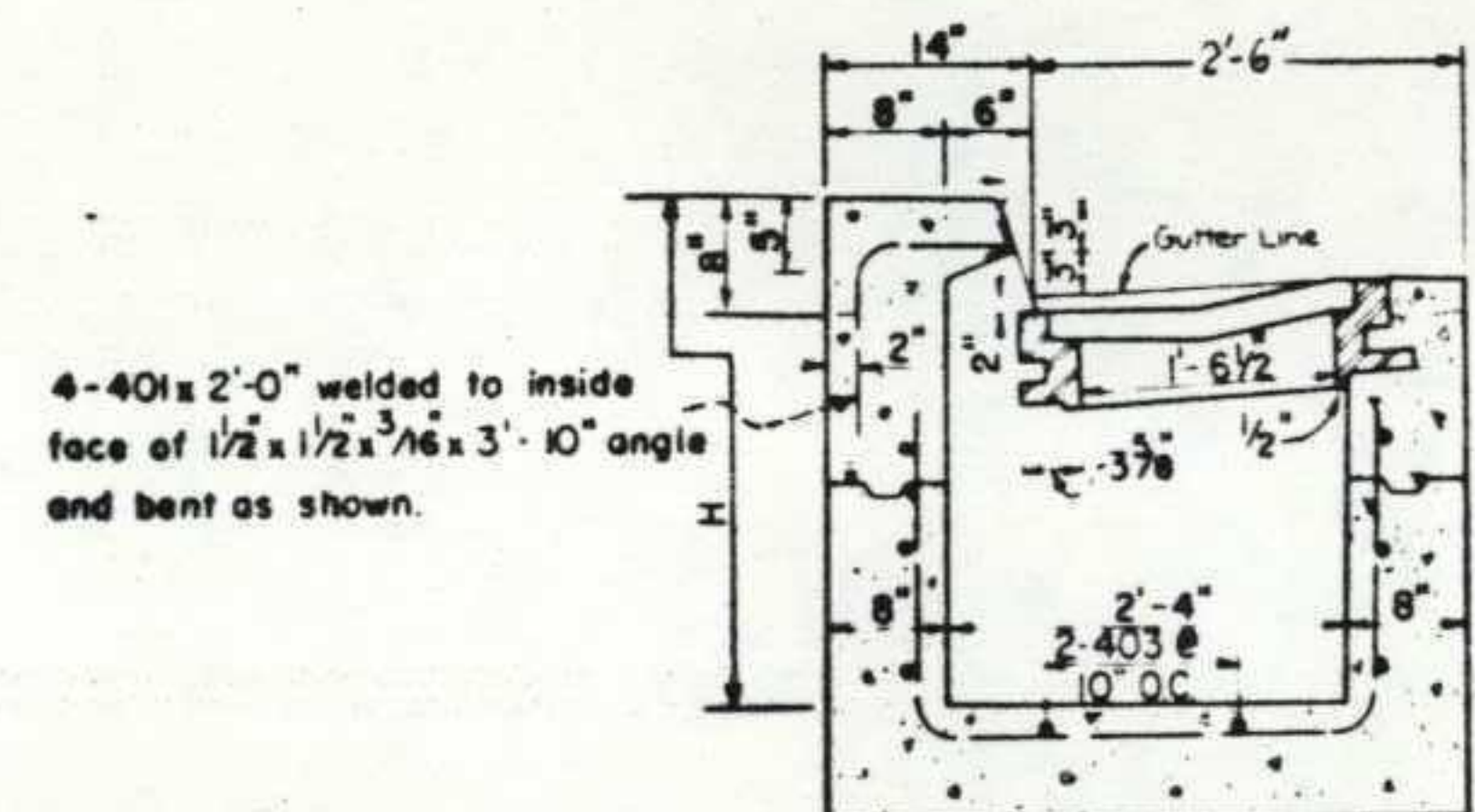
DETAILS OF INLET ALTERATION

For Larger Size or Skewed Pipes



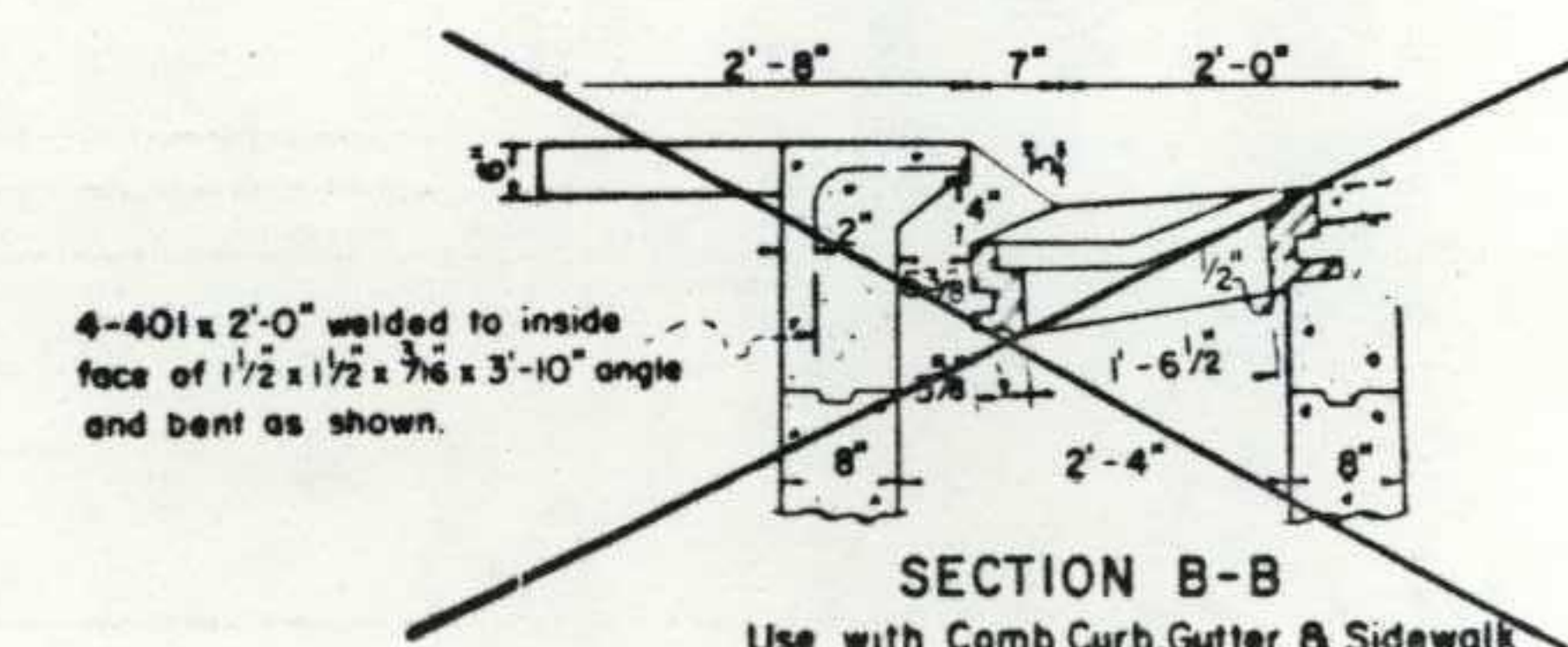
NOTE:
Vary steel shape and quantity as required.

Variable - to suit pipe size or skew angle.



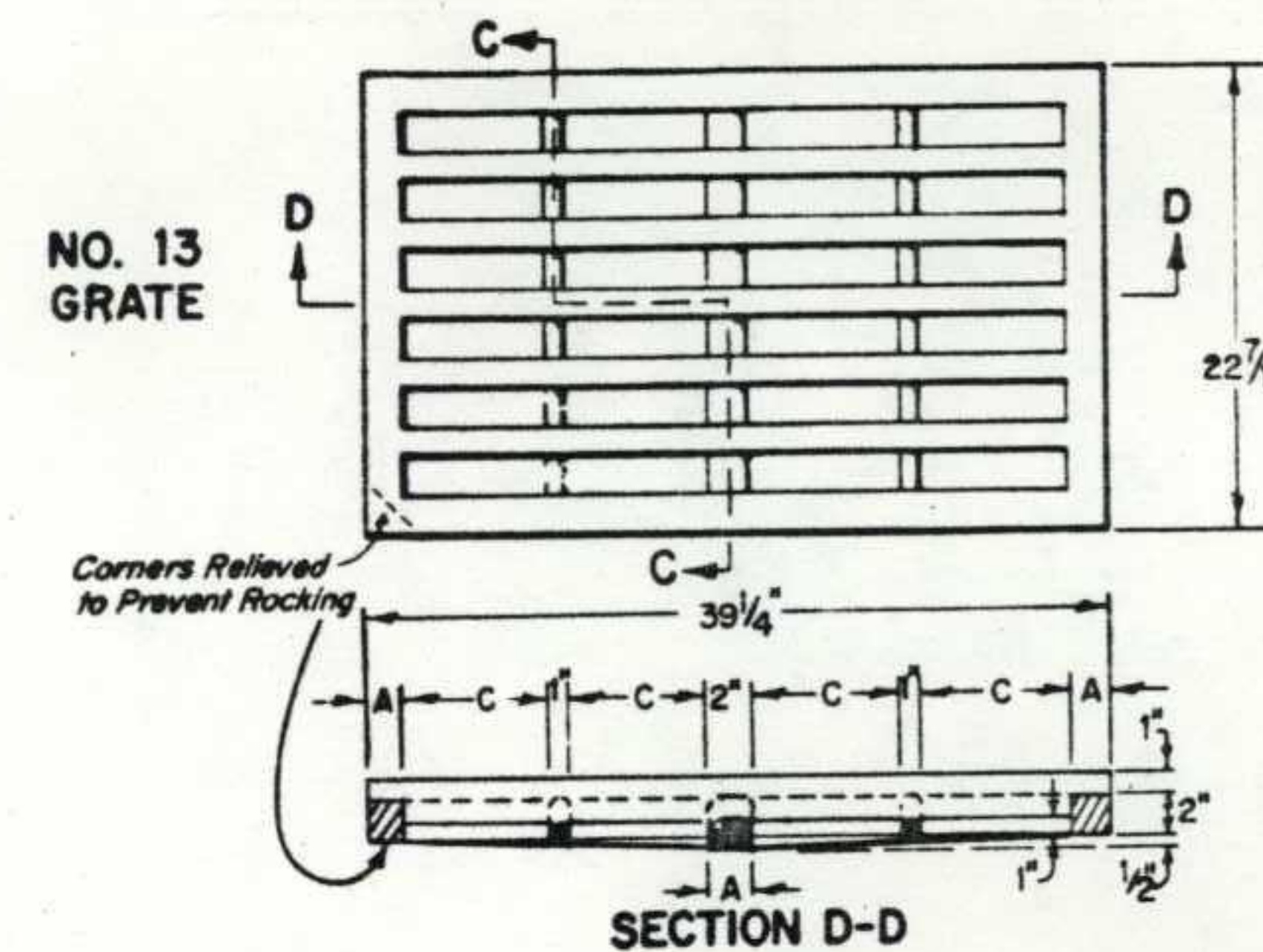
SECTION B-B
Use with Type 2 Curb & Gutter

4-401 x 2'-0" welded
face of 1/2" x 1/2" x 3/16"
and bent as shown.

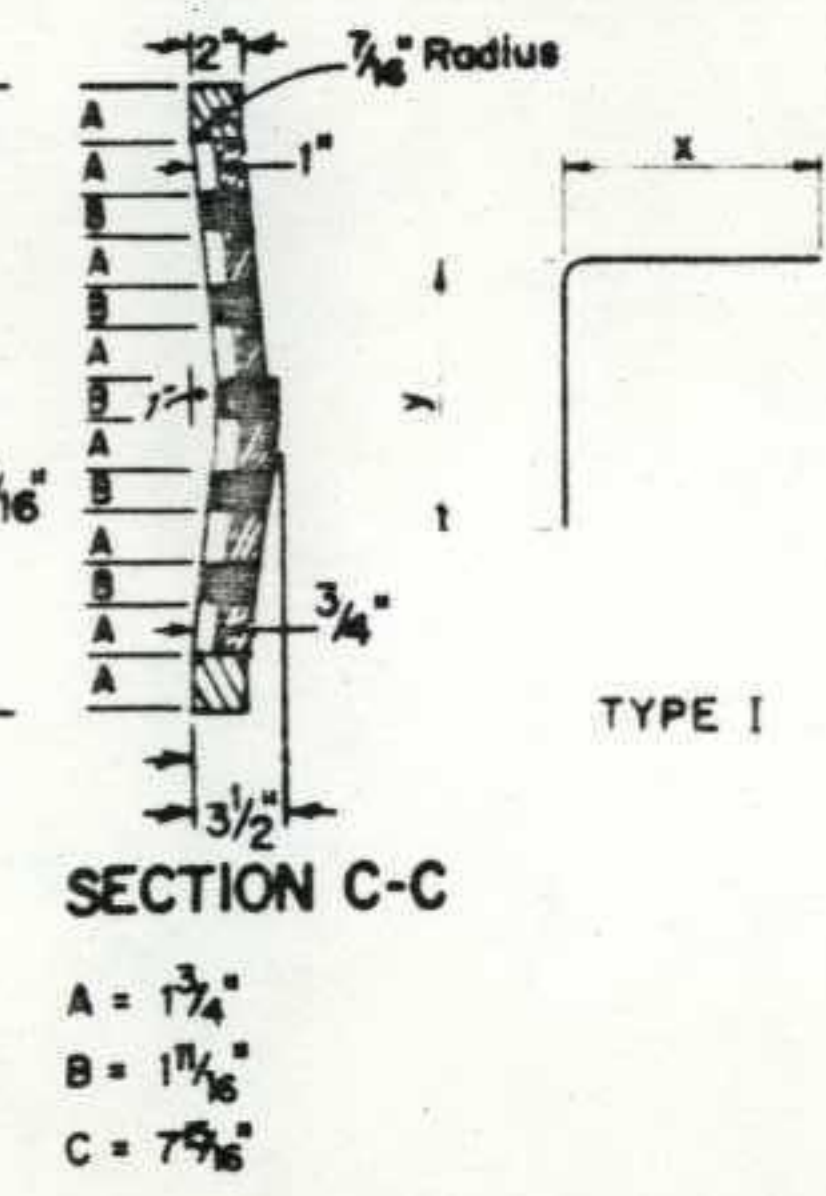


SECTION B-B

No. 13 Grate and Frame to be used with
Type 3 Inlet



SECTION D-D

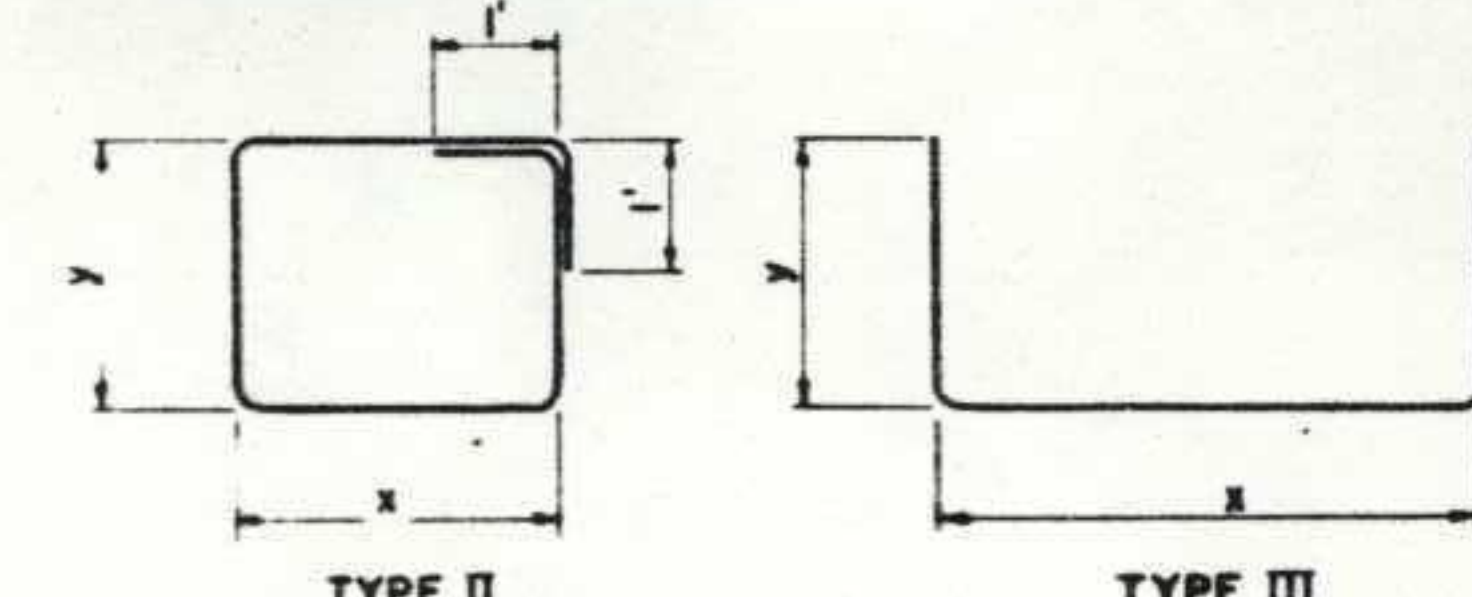


SECTION C-C

$$\begin{aligned} A &= 1\frac{3}{4}'' \\ B &= 1\frac{11}{16}'' \\ C &= 7\frac{5}{16}'' \end{aligned}$$

BENDING DIAGRAM
All dimensions are out to out of bar

All dimensions are out to out of bar



TYPE I

TYPE II

TYPE II

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications applicable to the project.

All concrete shall be class A or B.
All concrete walls shall be formed on both sides
All exposed concrete corners shall be beveled to a 1" face.
All reinforcing bars shall be tagged with bar designation and station number.
All dimensions not shown as clear are to $\frac{1}{2}$ " of bar.
All gratings, rings and covers shall be cast iron.
Since pipe entries into the inlet are variable, the dimensions shown are typical. Actual dimensions and quantities for concrete and reinforcement shall be as required in the work.

NOTE: Use steps for all Inlets with $H = 3'-6"$ or more Start $2'-0"$ below gutter line and space on $16"$ centers.

Details of Steps on Standard M-604-2A

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
DIVISION OF HIGHWAYS

CONCRETE INLETS
TYPES 3 & 3 DOUBLE

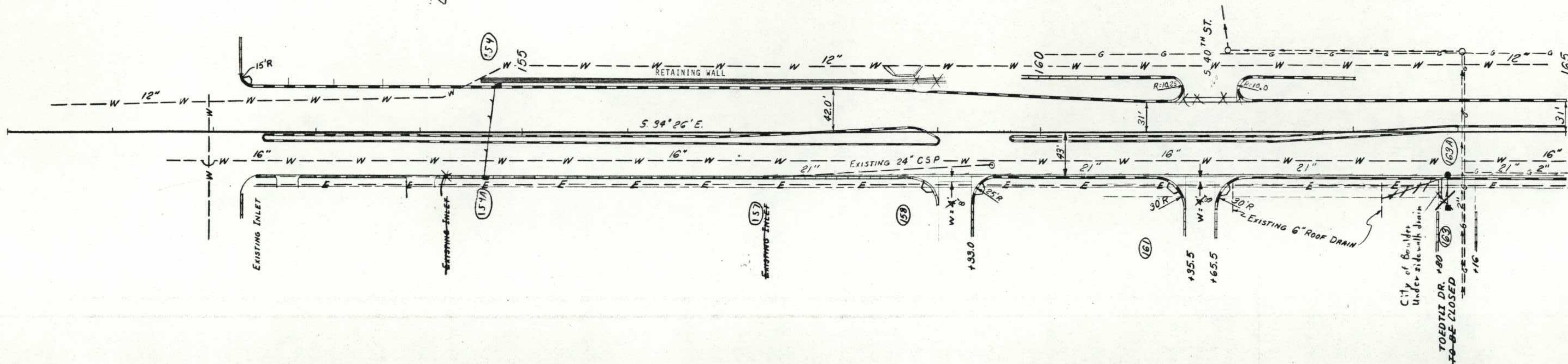
CURB AND GUTTER, DRAINAGE

AS CONSTRUCTED		
NO REVISIONS	REVISED 10-14-83	VOID

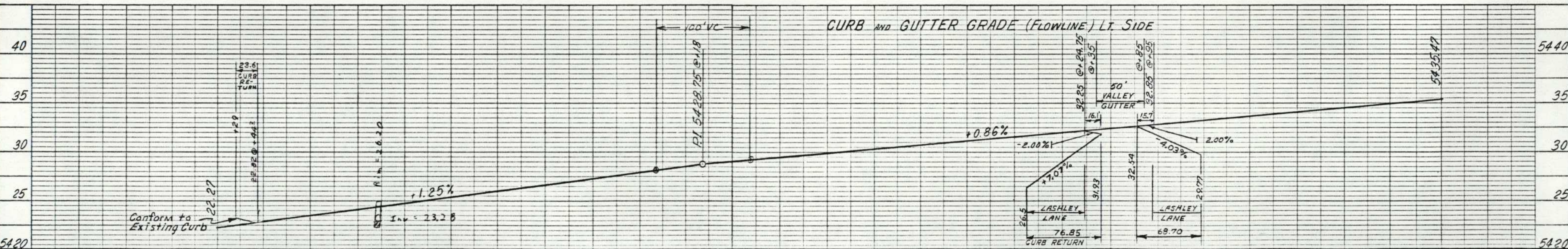
FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	18	

FRU 093-1(3)

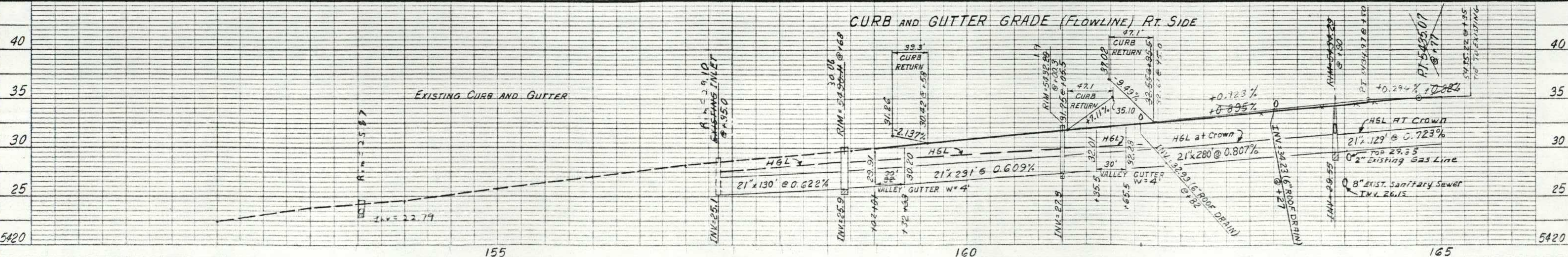
NOTE:
FOR OTHER UTILITIES SEE
PLAN & PROFILE, ROW AND UTILITIES
SHEETS.



CURB AND GUTTER GRADE (FLOWLINE) LT. SIDE



CURB AND GUTTER GRADE (FLOWLINE) RT. SIDE



AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID
		10-14-83

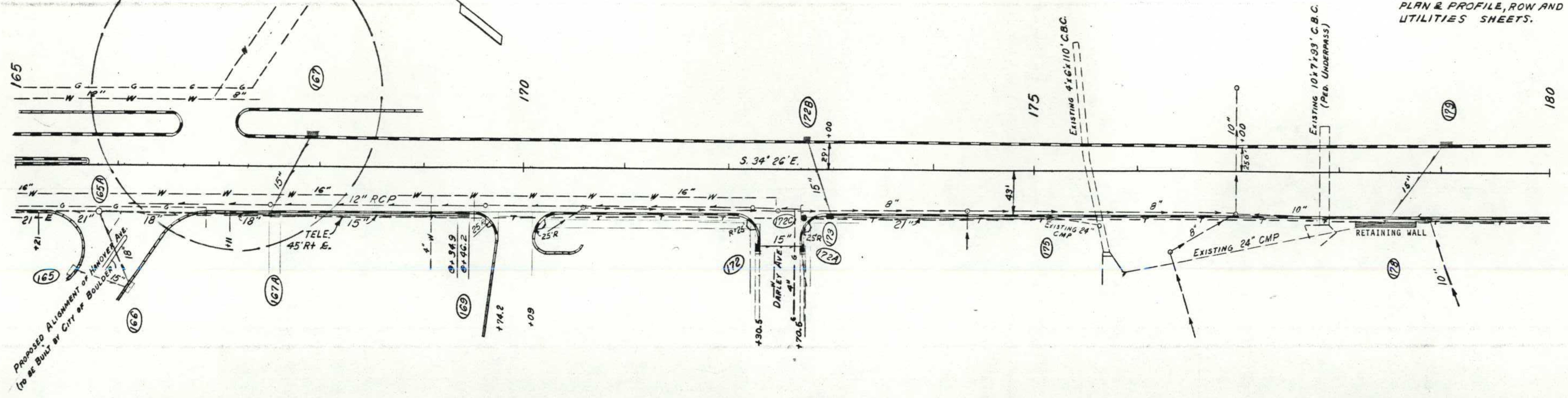
FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
XIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	19	

FRU 093-1(3)

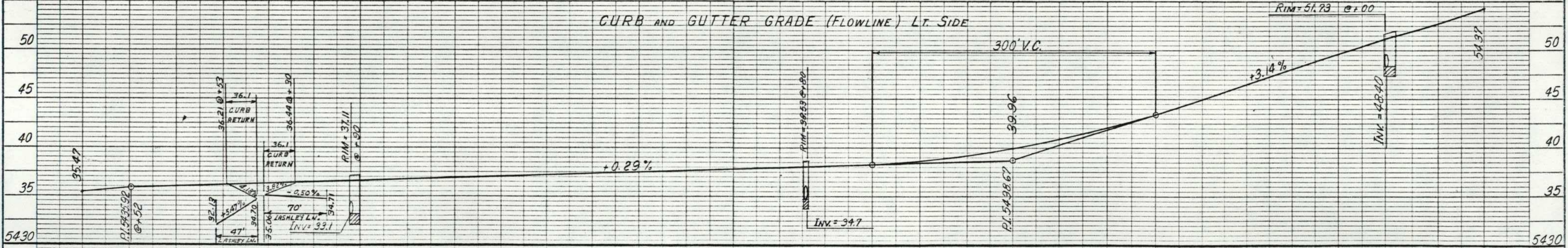
NOTE:
FOR OTHER UTILITIES SEE
PLAN & PROFILE, ROW AND
UTILITIES SHEETS.

CURB AND GUTTER, DRAINAGE

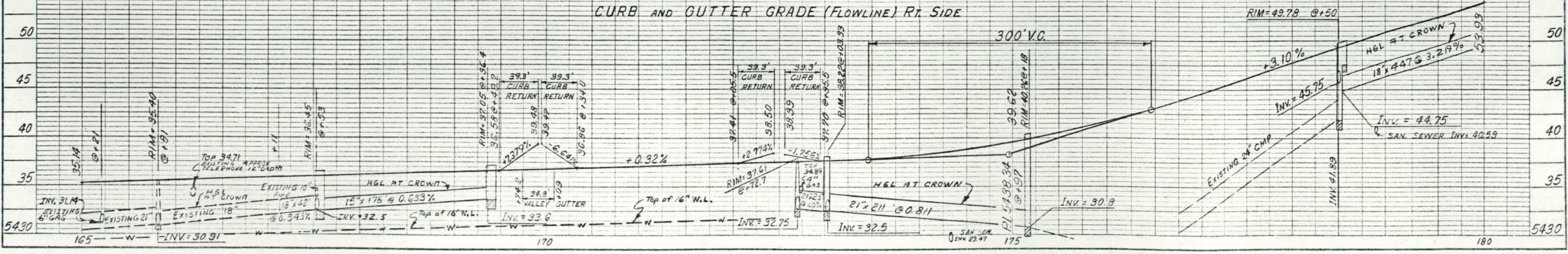
SEE DETAIL
HANOVER INTER.



CURB AND GUTTER GRADE (FLOWLINE) LT. SIDE



CURB AND GUTTER GRADE (FLOWLINE) RT. SIDE

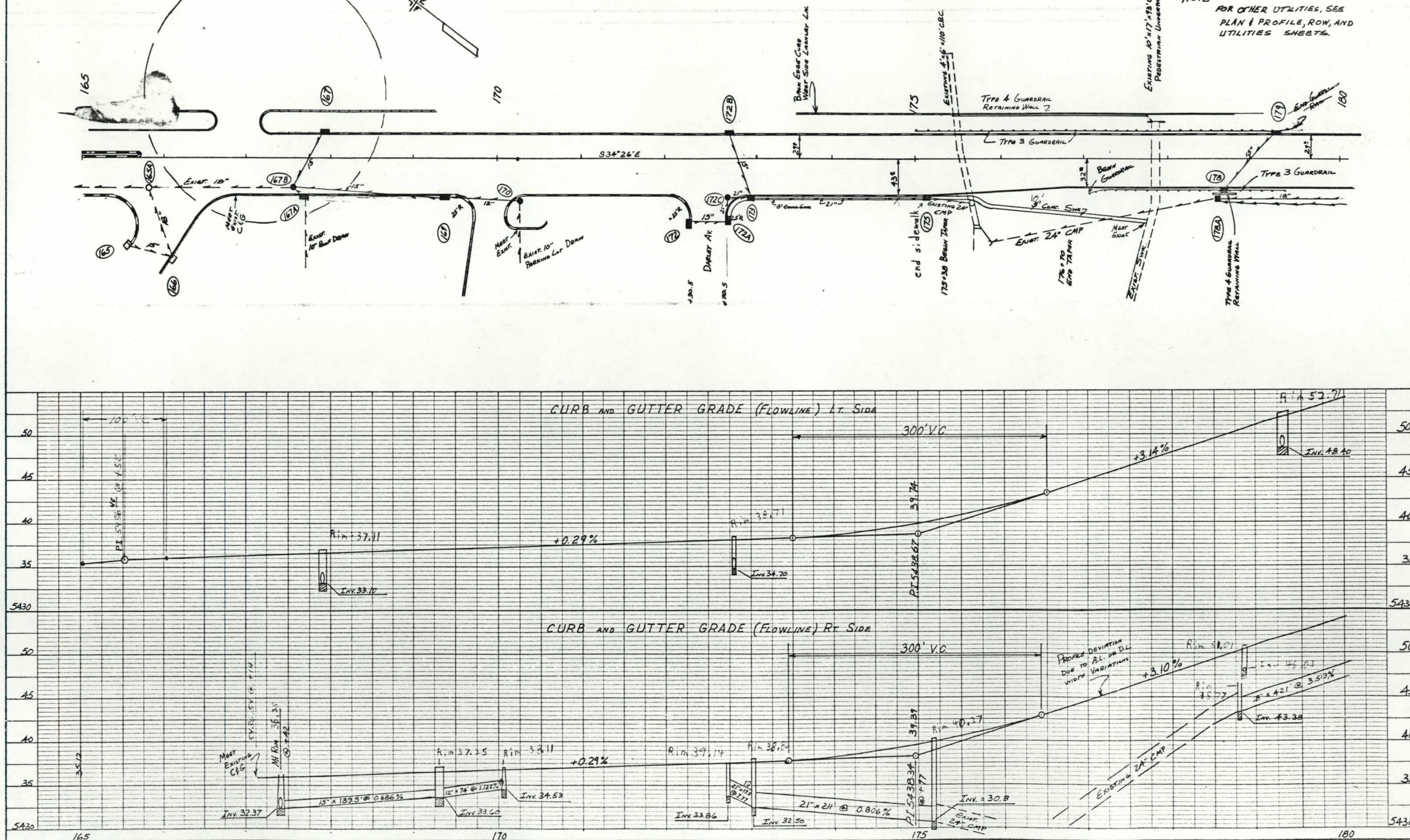


CURB AND GUTTER, DRAINAGE

AS CONSTRUCTED
REVISED DATE 10-14-83

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1-(3) PMS 0004 (II)	19 X	

NOTE:
FOR OTHER UTILITIES, SEE
PLAN & PROFILE, ROW, AND
UTILITIES SHEETS.



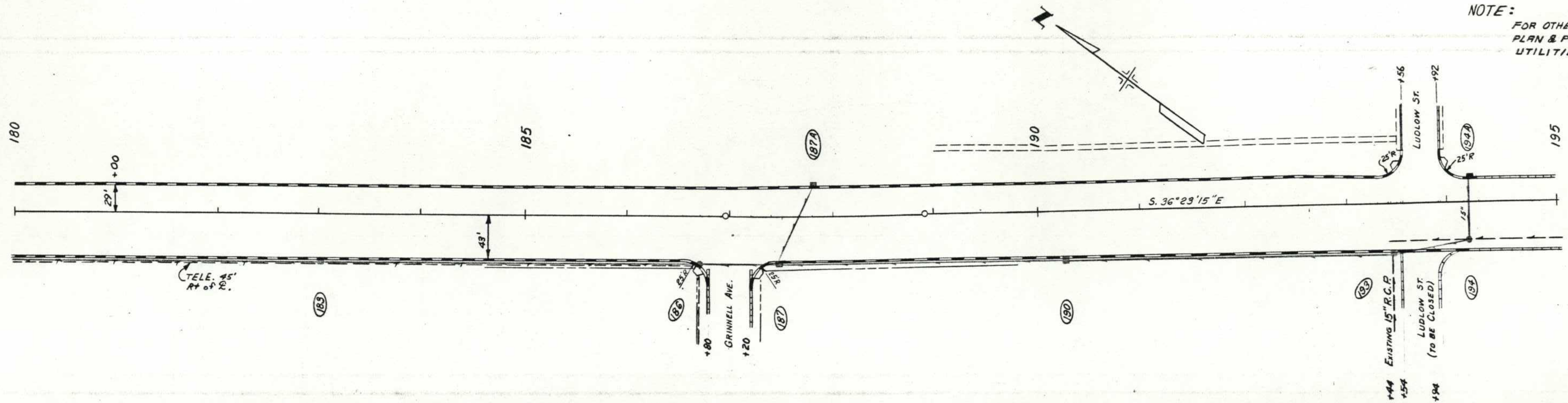
CURB AND GUTTER, DRAINAGE

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID 10-14-83

FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	20	

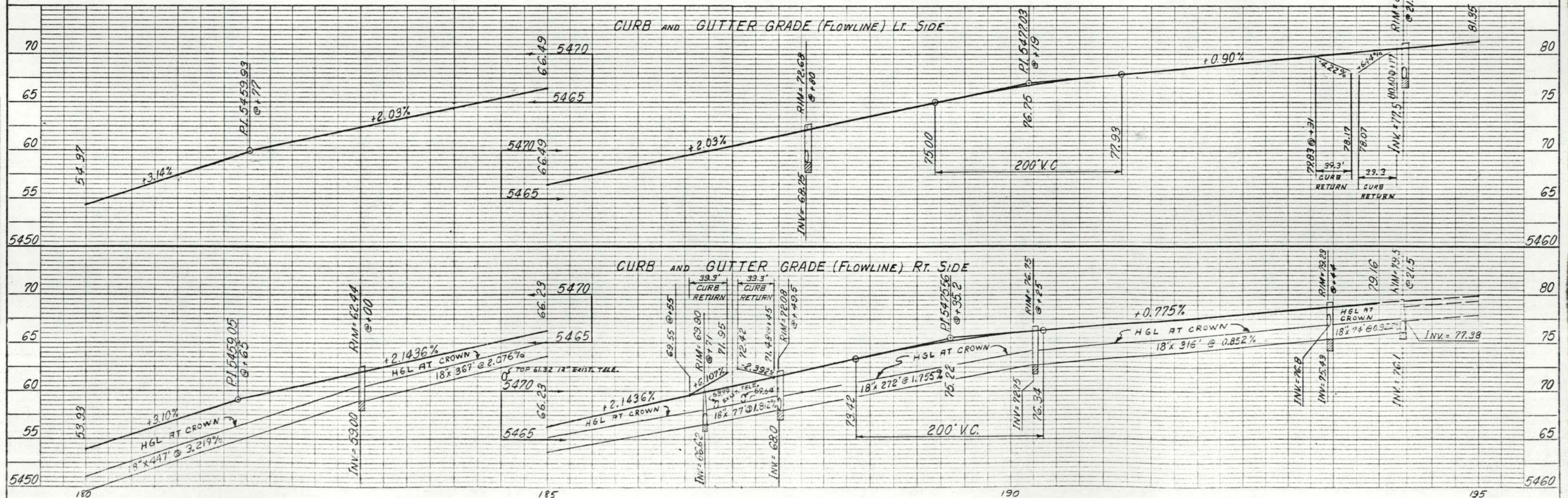
FRU 093-1(3)

NOTE:
FOR OTHER UTILITIES SEE
PLAN & PROFILE, ROW AND
UTILITIES SHEETS.



CURB AND GUTTER GRADE (FLOWLINE) LT. SIDE

CURB AND GUTTER GRADE (FLOWLINE) RT. SIDE

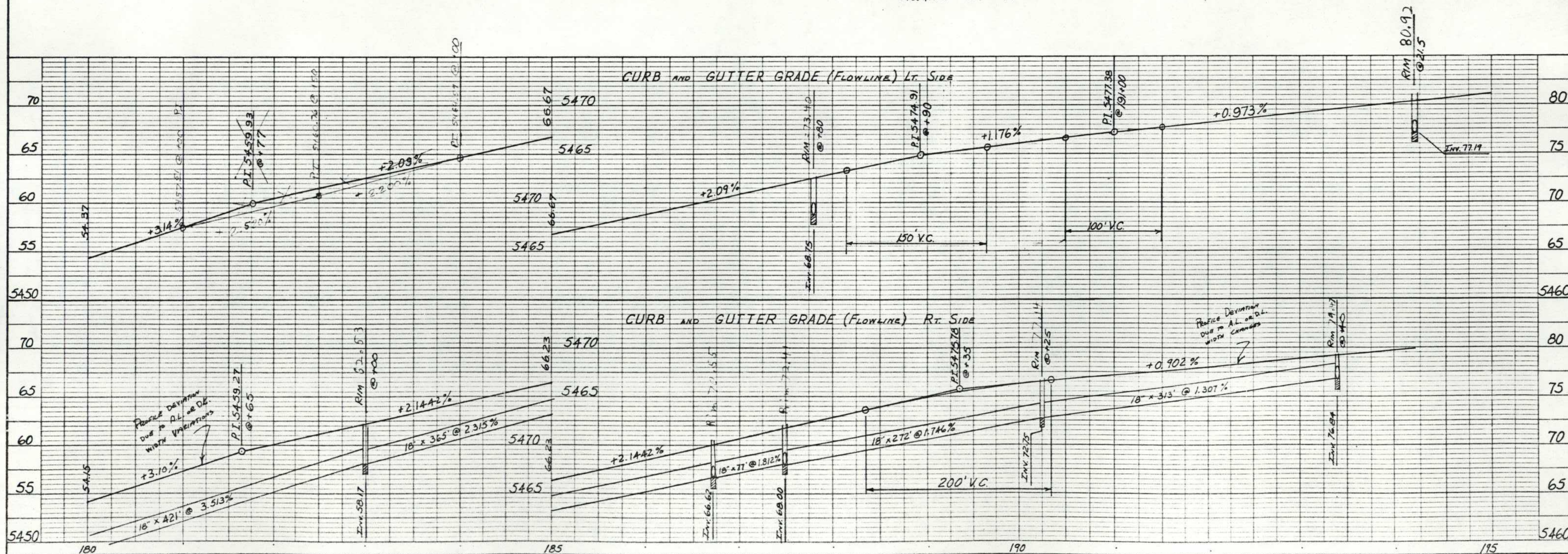
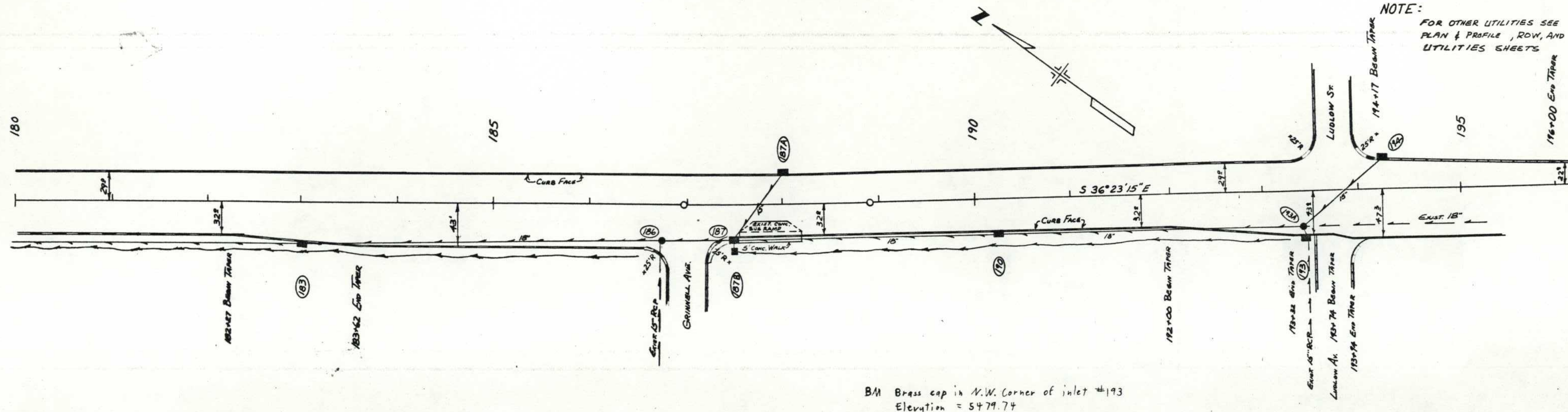


PLAN	DATE
NO. 1	

PROFILE	DATE
NO. 1	

NOT CONSTRUCTED
REVISED DATE 10-14-83

NOTE:
FOR OTHER UTILITIES SEE
PLAN & PROFILE, ROW, AND
UTILITIES SHEETS



PLAN & PROFILE, ROW AND UTILITIES

NE⁴ SEC. 8
T.1 S., R.70 W.

AS CONSTRUCTED

NO REVISIONS ☐ REVISED ☐ 10-14-83 VOID ☐

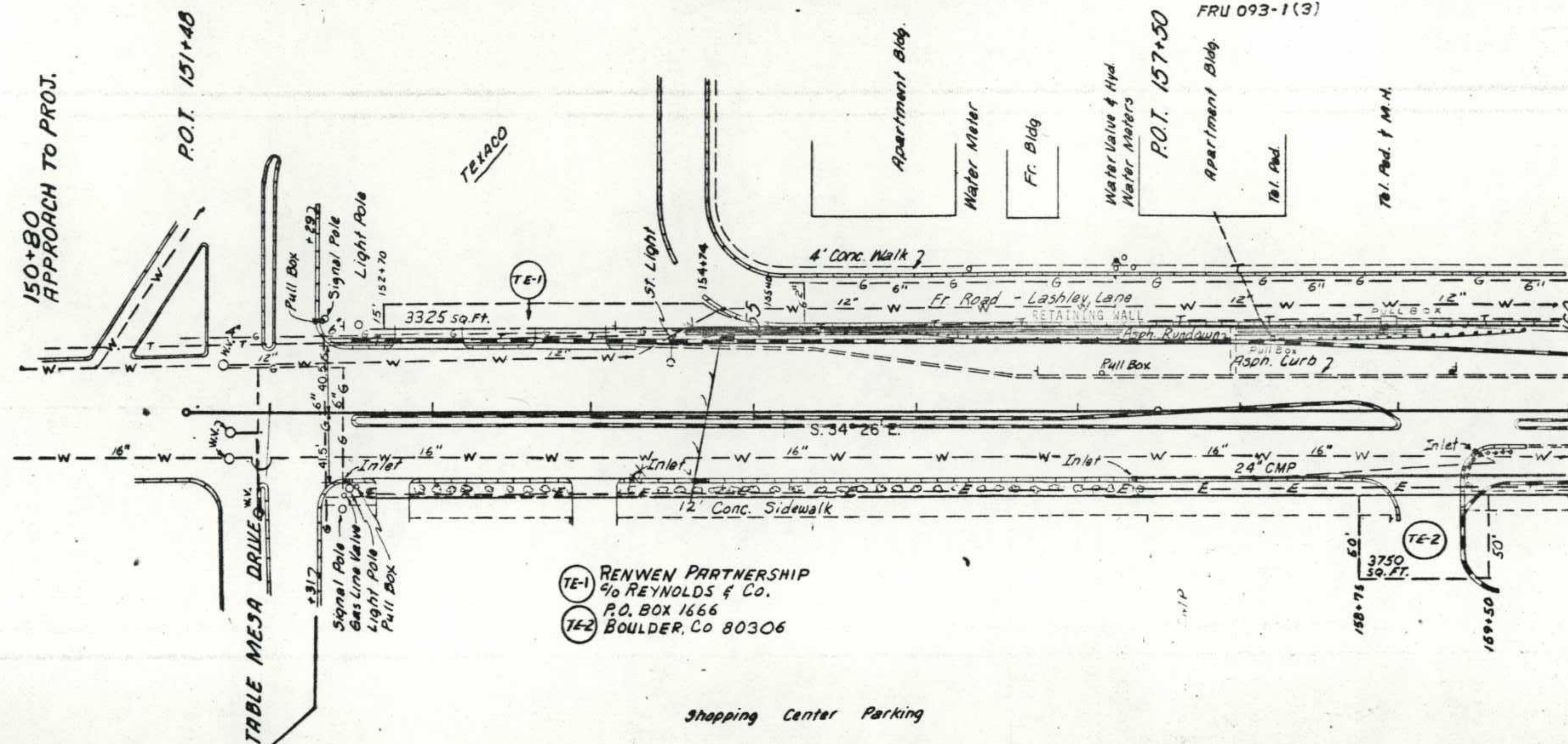
FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. NO'S.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	21	

UTILITY

SANITARY SEWER
STORM SEWER
WATER LINE
TELE. CONDUIT
ELEC. TRANS. LINES
GAS MAIN

OWNERS

CITY OF BOULDER
CITY OF BOULDER
CITY OF BOULDER
MOUNTAIN BELL
PUBLIC SERVICE OF COLORADO
PUBLIC SERVICE OF COLORADO



STA 152+30
BEGIN FRU 093-1(3)
= STA 152+30 ON SU 0084(3)

150 ft (±)
APPROACH TO PROJ.

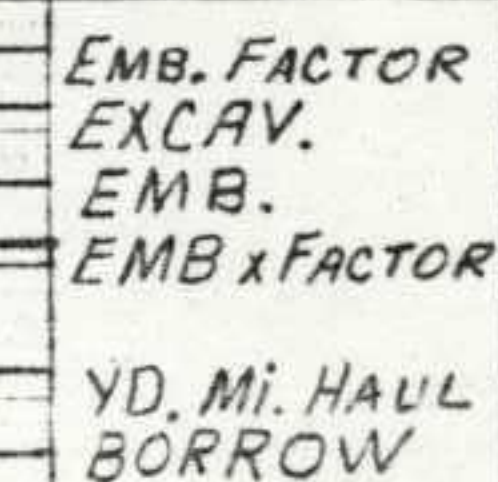
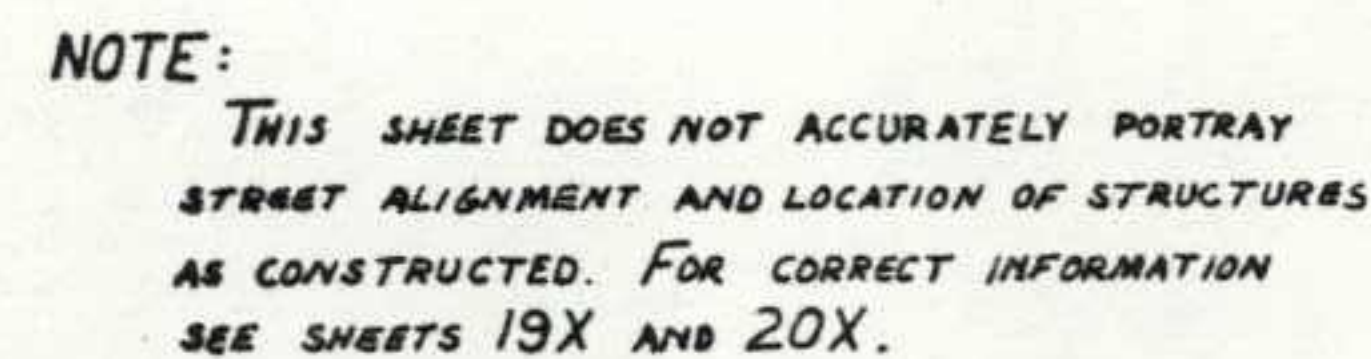
EMB. FACTOR
EXCAV.
EMB.
EMB x FACTOR

YD. MI. HAUL
BORROW

155

160

FEDERAL ROAD REGION NO	DIVISION	COMBINED PROJ. No's.	SHEET NO	TOTAL SHEETS
VIII	COLORADO	FRU 093-1 (3) PMS 0004 (H)	22	



NOTE BOOK NOS.
29072 32149
32051 33482

DATE	
BY	
REVIEWED	
ROUTED	
CHECKED	
APPROVED	
PLAN	
NO.	

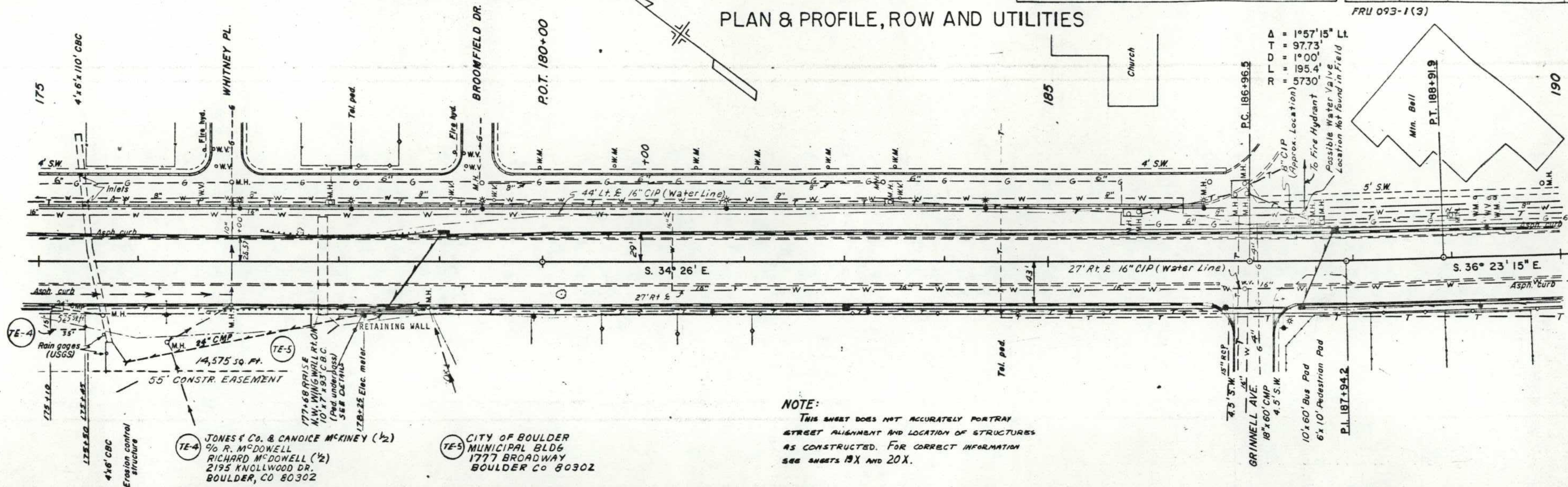
DATE	
BY	
REVIEWED	
ROUTED	
CHECKED	
APPROVED	
PROFILE	
NO.	

NE⁴ SEC. 8
T.1S., R.70W.

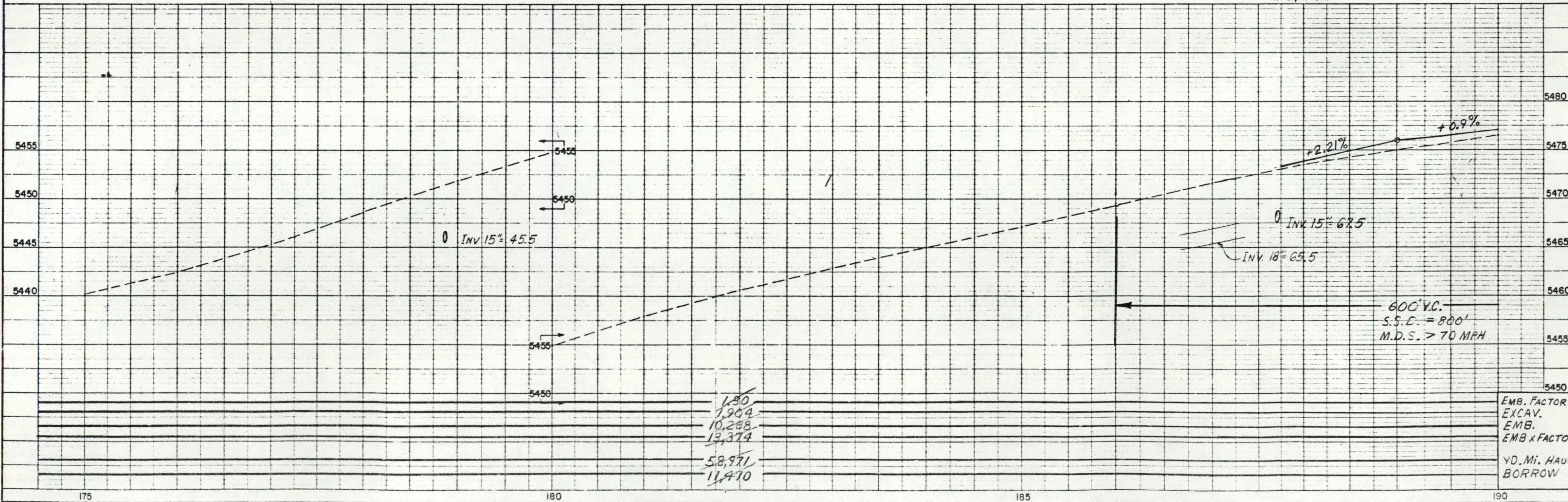
AS CONSTRUCTED		
NO REVISIONS	REVISED 10-14-83	VOID

FEDERAL ROAD REGION NO. VIII	DIVISION COLORADO	COMBINED PROJ. No's. FRU 093-1(3) PMS 0004(11)	SHEET NO. 23	TOTAL SHEETS
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PLAN & PROFILE, ROW AND UTILITIES



SE⁴ SEC. 8
T.1S., R.70W.



EMB. FACTOR
EXCAV.
EMB.
EMB x FACTOR
YD. MI. HAUL
BORROW

SW⁴ SEC. 9
T.1 S., R.70 W.

AS CONSTRUCTED

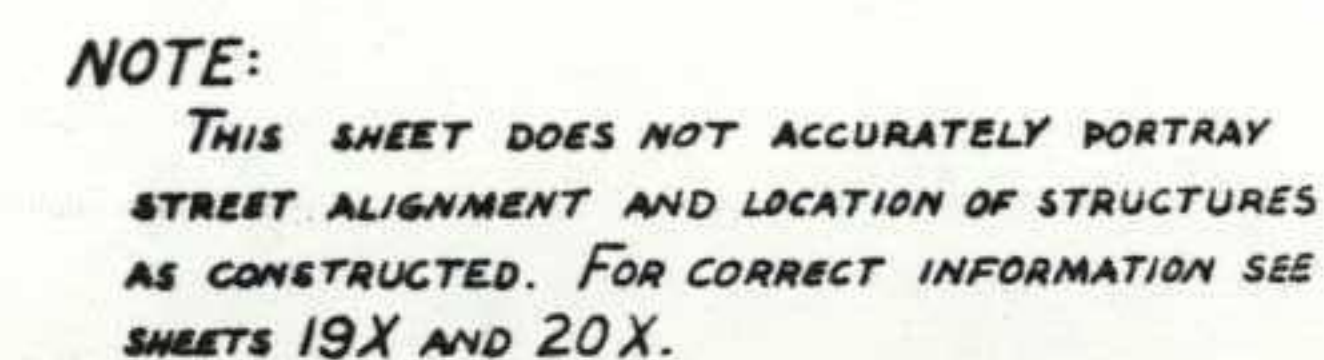
NO REVISIONS

REVISÉ

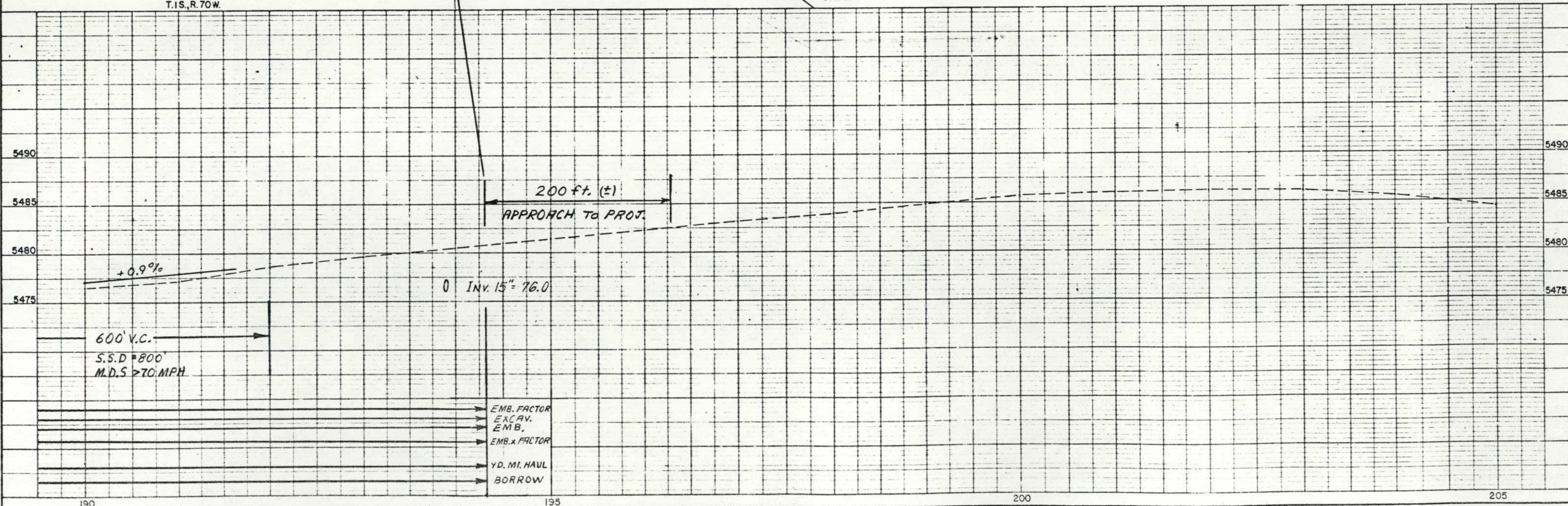
von

FEDERAL ROAD REGION NO	DIVISION	COMBINED PROJ. No's.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	24	.

FRU 093-1(3)



SE⁴ SEC. 8
T.1S., R. 70W.

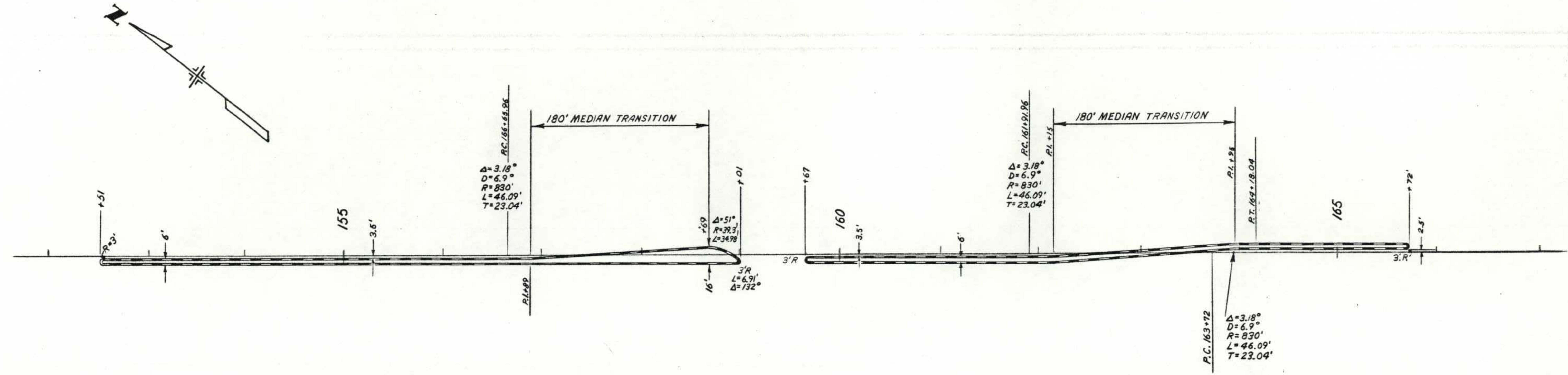


AS CONSTRUCTED		
NO REVISIONS	REVISED 10-14-83	VOID

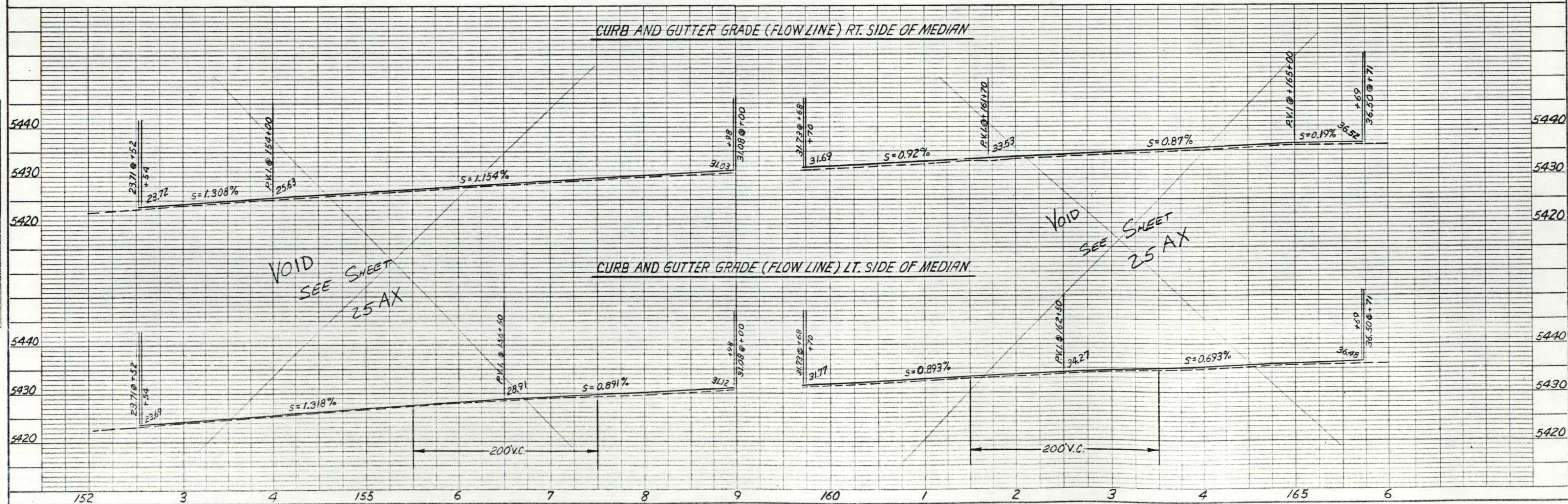
FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. NO'S.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	25	

FRU 093-1(3)

PLAN	DATE	BY
NO.		



PROFILE	DATE	BY
NO.		

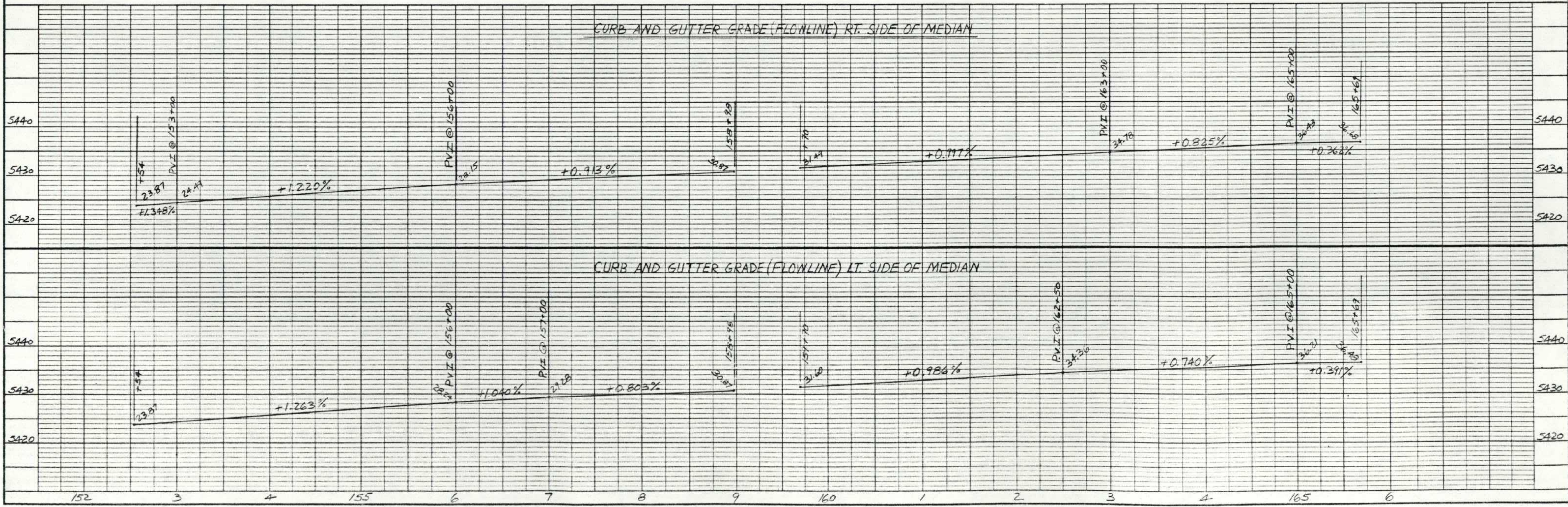


AS CONSTRUCTED		
NO REVISIONS	REVISED 10-1-83	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (II)	25AX	

DATE	BY	DATE	BY
PLAN			
NOTE BOOK			
No.			

DATE	BY	DATE	BY
PROFILE			
NOTE BOOK			
No.			

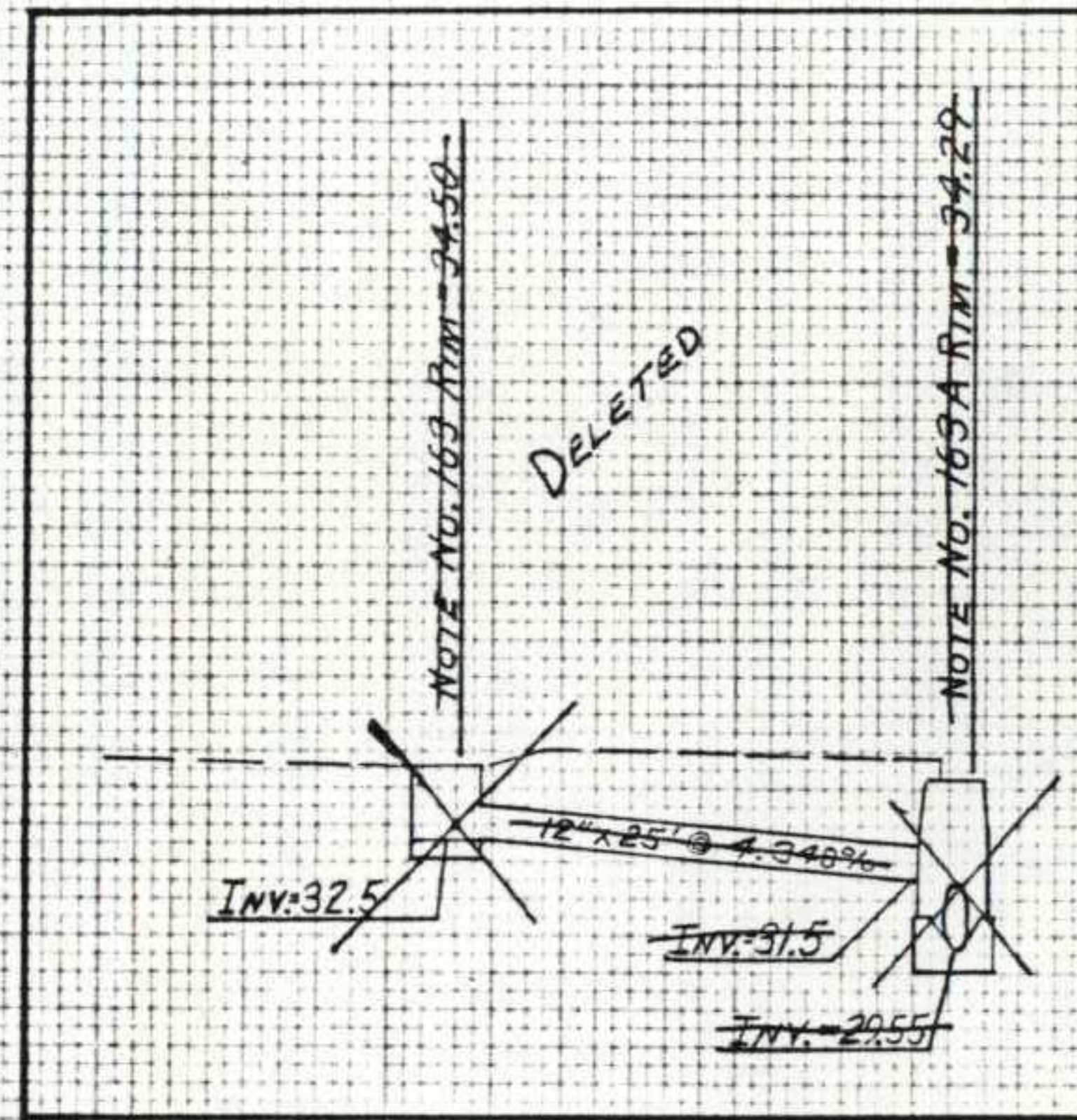


CROSS SECTIONS OF CROSS CULVERTS

AS CONSTRUCTED
NO REVISIONS ☐ REVISED ☒ 10-17-83 VOID ☐

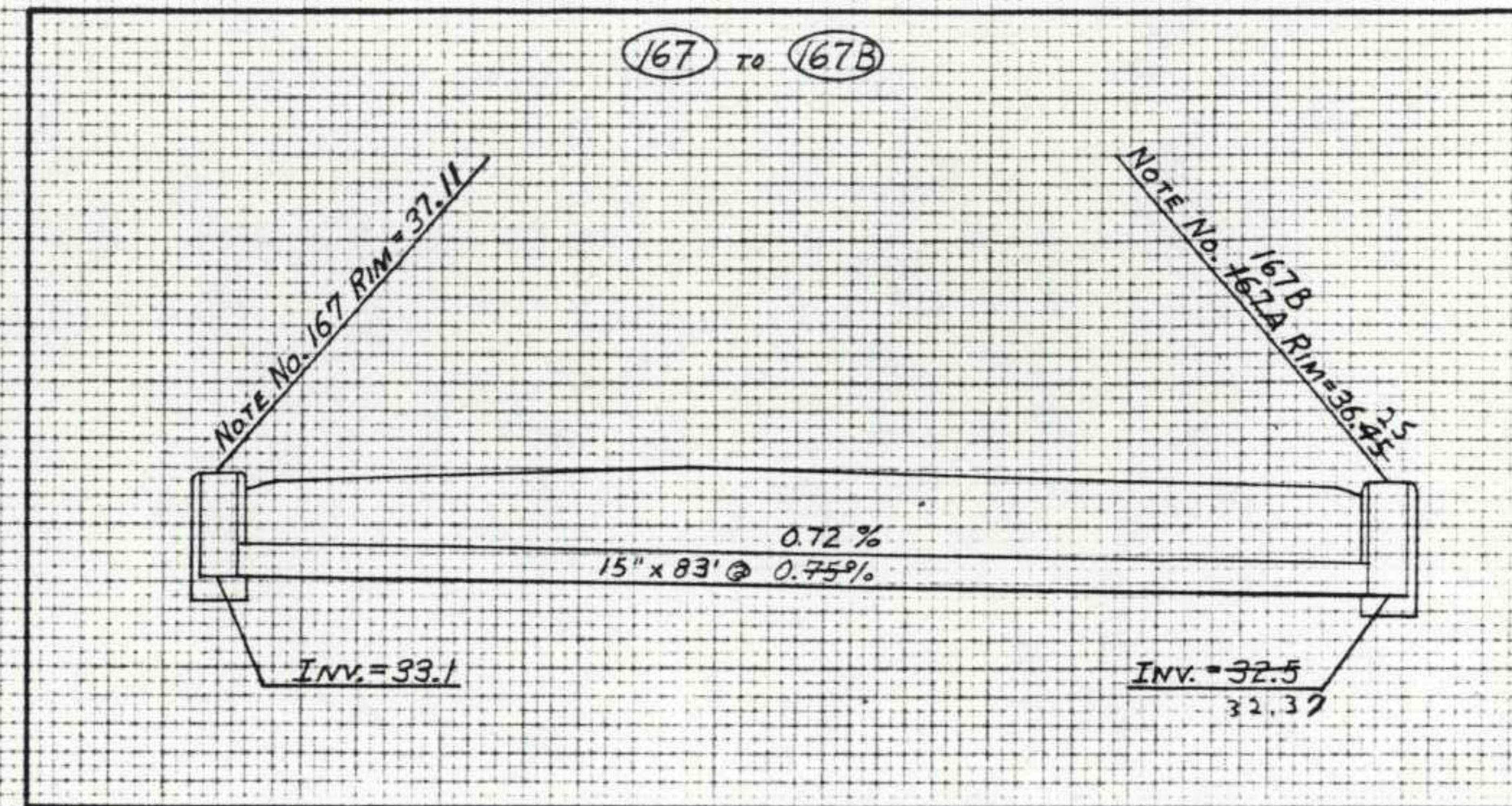
COMBINED PROJ. No's.
FRU 093-1(3)
PMS 0004 (11) 26
FRU 093-1(3)

STA. 163+90 RT. DELETED
TOEDTLI DR.
(TO BE CLOSED)



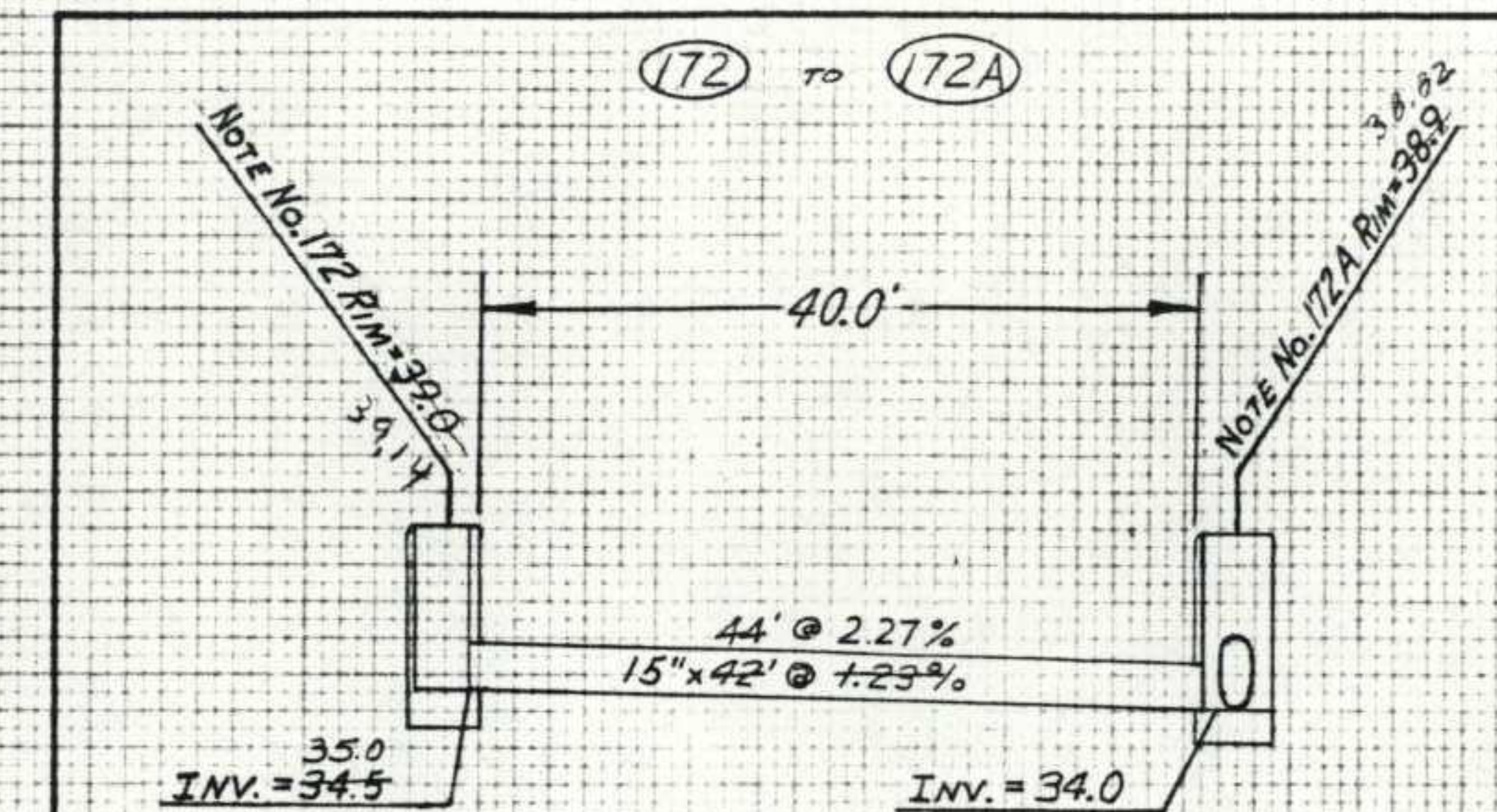
STR. BACKFILL
CL. 1. 07x21 = 1.47 Cu. Yds.
CL. 2. 22x21 = 4.61 Cu. Yds.
BEDDING
0.4x21 = 0.84 Cu. Yds.
STR. EXCAV.
3.3x(1+3)x21 = 10.3 Cu. Yds.

STA. 167+53 RT. To 167+90 LT.



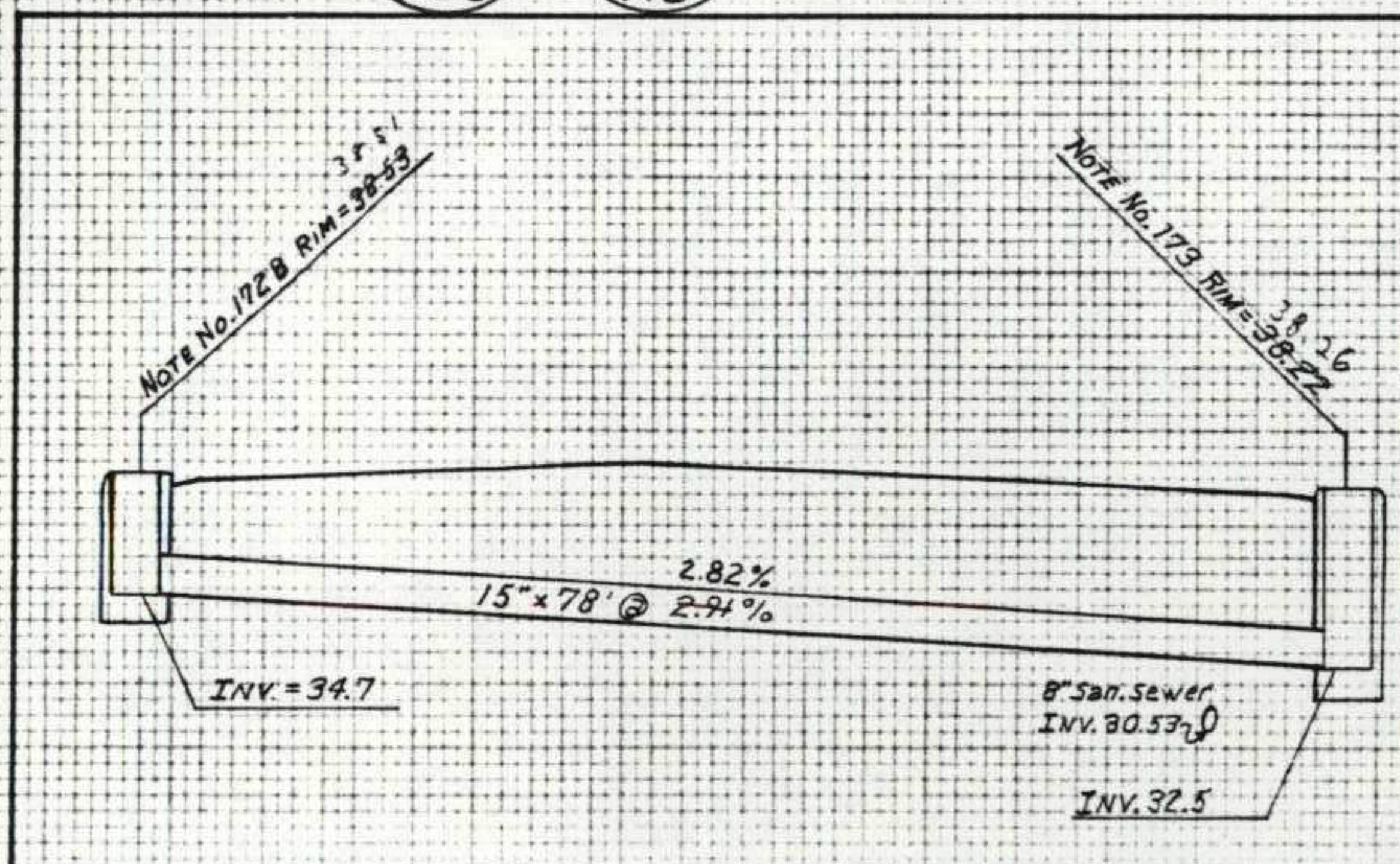
STR. BACKFILL
CL. 1. 09x79 = 7.4 Cu. Yds.
CL. 2. 25x79 = 19.75 Cu. Yds.
BEDDING
0.4x79 = 3.16 Cu. Yds.
STR. EXCAV.
4.3x(1.25+3)x79 = 53.5 Cu. Yds.

STA. 172+30 RT. To 172+71 RT.
DARLY AVE.



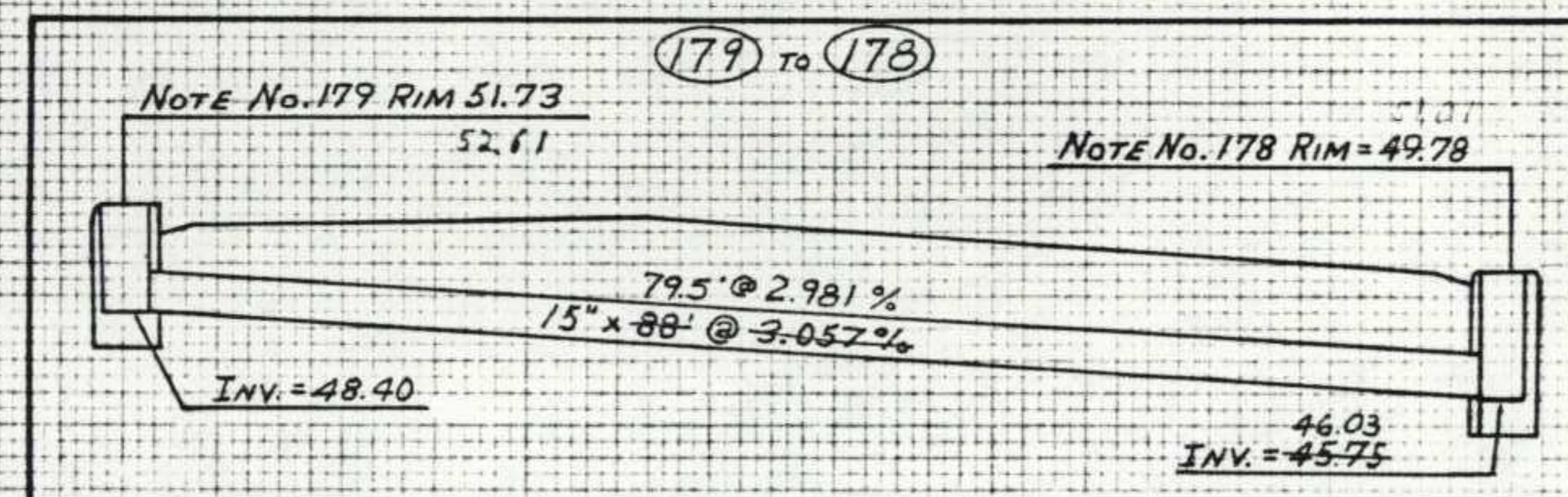
STR. BACKFILL
CL. 1. 09x38 = 3.42 Cu. Yds.
CL. 2. 25x38 = 9.5 Cu. Yds.
BEDDING
0.4x38 = 1.52 Cu. Yds.
STR. EXCAV.
5.15x(1.25+3)x38 = 30.80 Cu. Yds.

STA. 172+80 LT. To 173+03.33 RT.



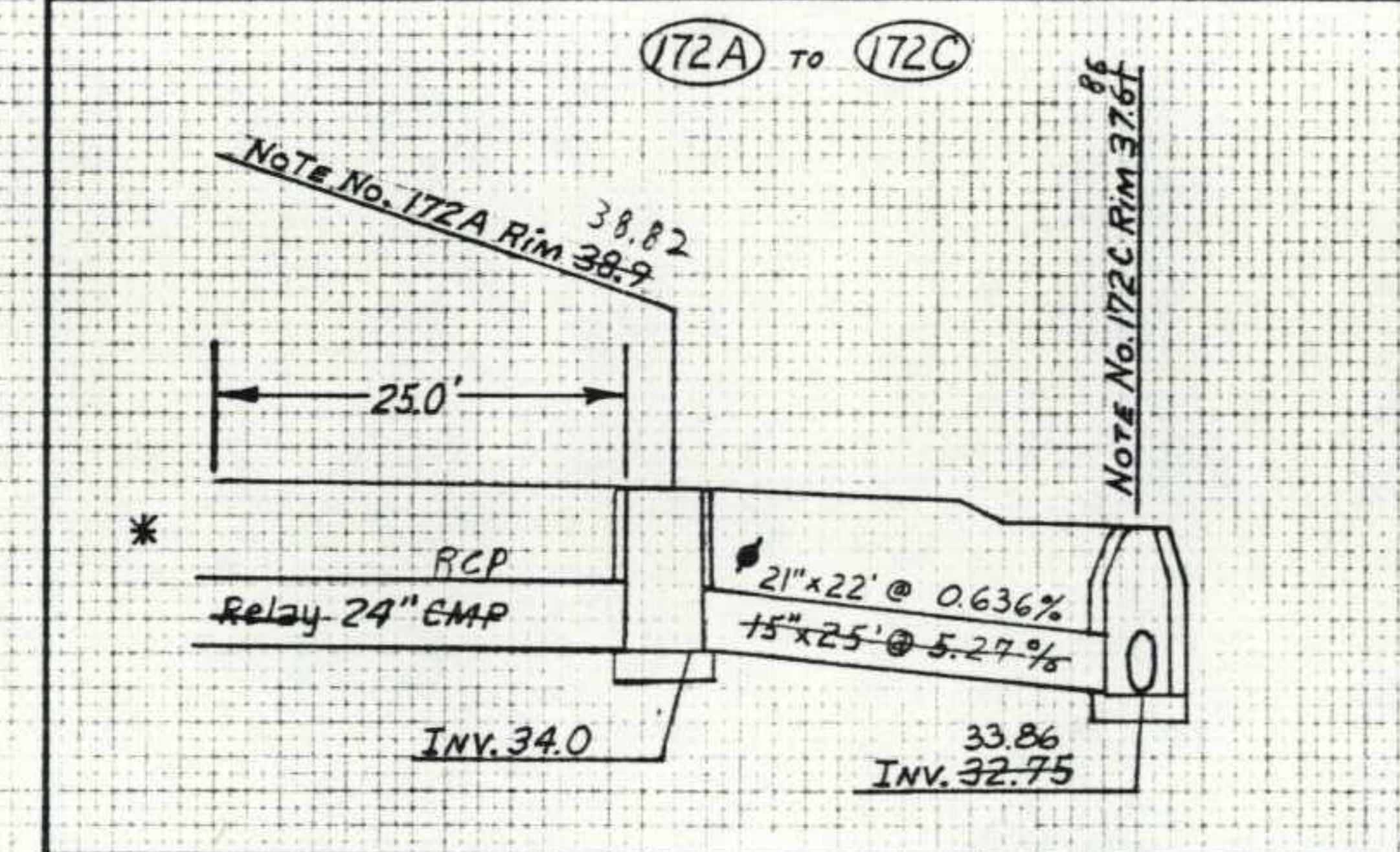
STR. BACKFILL
CL. 1. 09x74 = 6.66 Cu. Yds.
CL. 2. 25x74 = 18.5 Cu. Yds.
BEDDING
0.4x74 = 2.96 Cu. Yds.
STR. EXCAV.
5.1x(1.25+3)x74 = 59.71 Cu. Yds.

STA. 178+50 RT. To 179+00 LT.



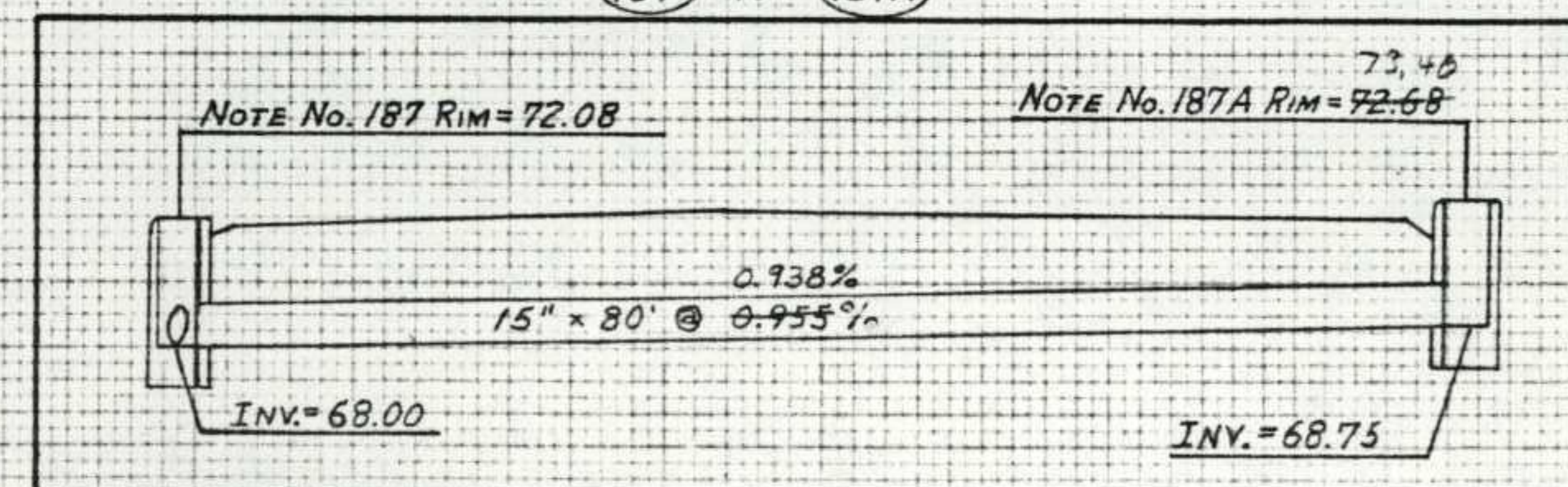
STR. BACKFILL
CL. 1. 09x84 = 7.56 Cu. Yds.
CL. 2. 25x84 = 21.00 Cu. Yds.
BEDDING
0.4x84 = 3.36 Cu. Yds.
STR. EXCAV.
3.85x(1.25+3)x84 = 50.9 Cu. Yds.

STA. 172+71 RT. To 172+72.7 RT.



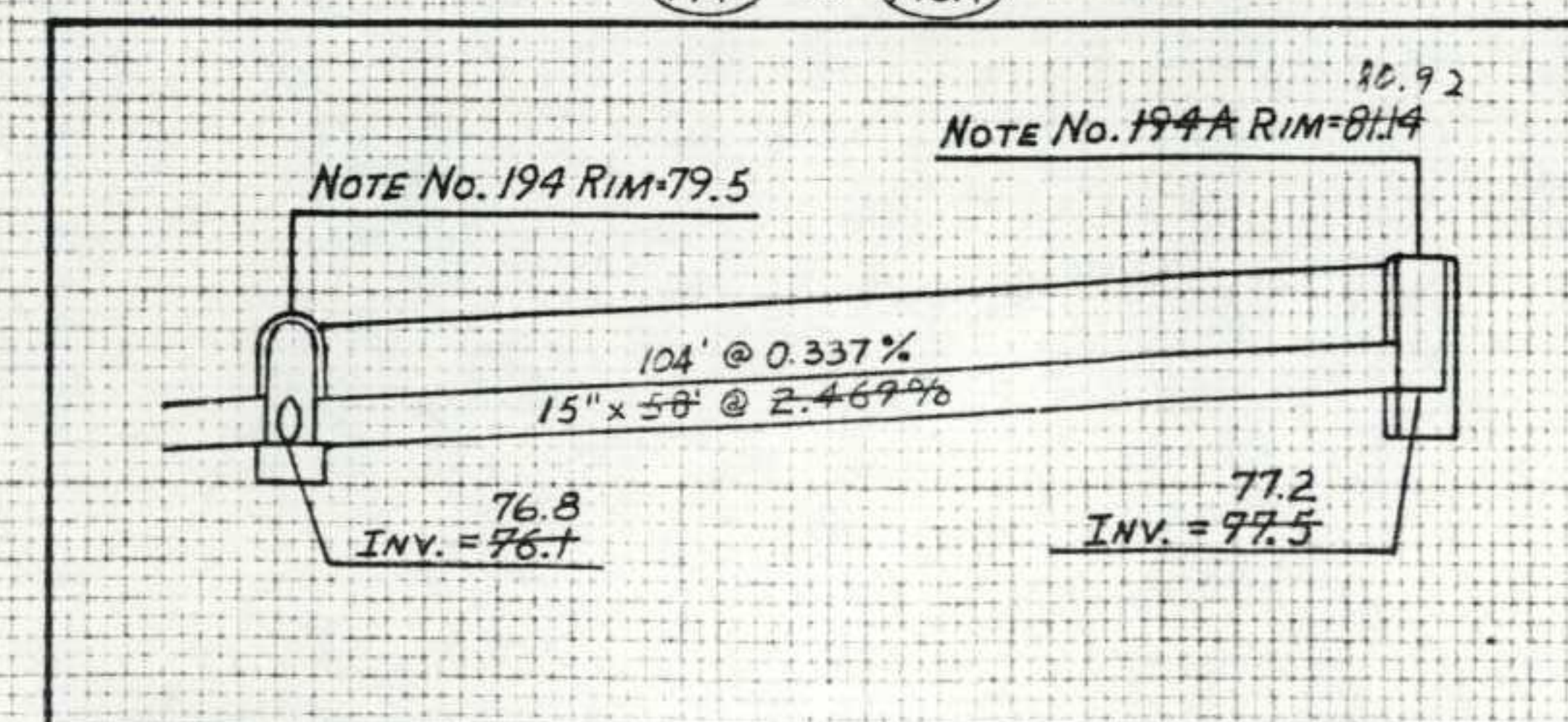
STR. BACKFILL
CL. 1. 14x23 = 3.22 Cu. Yds.
CL. 2. 32x23 = 7.36 Cu. Yds.
BEDDING
0.05x23 = 1.15 Cu. Yds.
STR. EXCAV.
5.15x(2+3)x23 = 21.94 Cu. Yds.
STR. BACKFILL
CL. 1. 09x21 = 1.89 Cu. Yds.
CL. 2. 25x21 = 5.25 Cu. Yds.
BEDDING
0.4x21 = 0.84 Cu. Yds.
STR. EXCAV.
5.2x(1.25+3)x21 = 17.2 Cu. Yds.

STA. 187+49.5 RT. To 187+80 LT.



STR. BACKFILL
CL. 1. 09x76 = 6.84 Cu. Yds.
CL. 2. 25x76 = 19.00 Cu. Yds.
BEDDING
0.4x76 = 3.04 Cu. Yds.
STR. EXCAV.
4x(1.25+3)x76 = 47.85 Cu. Yds.

STA. 194+21.5 LT. To 194+21.5 RT.



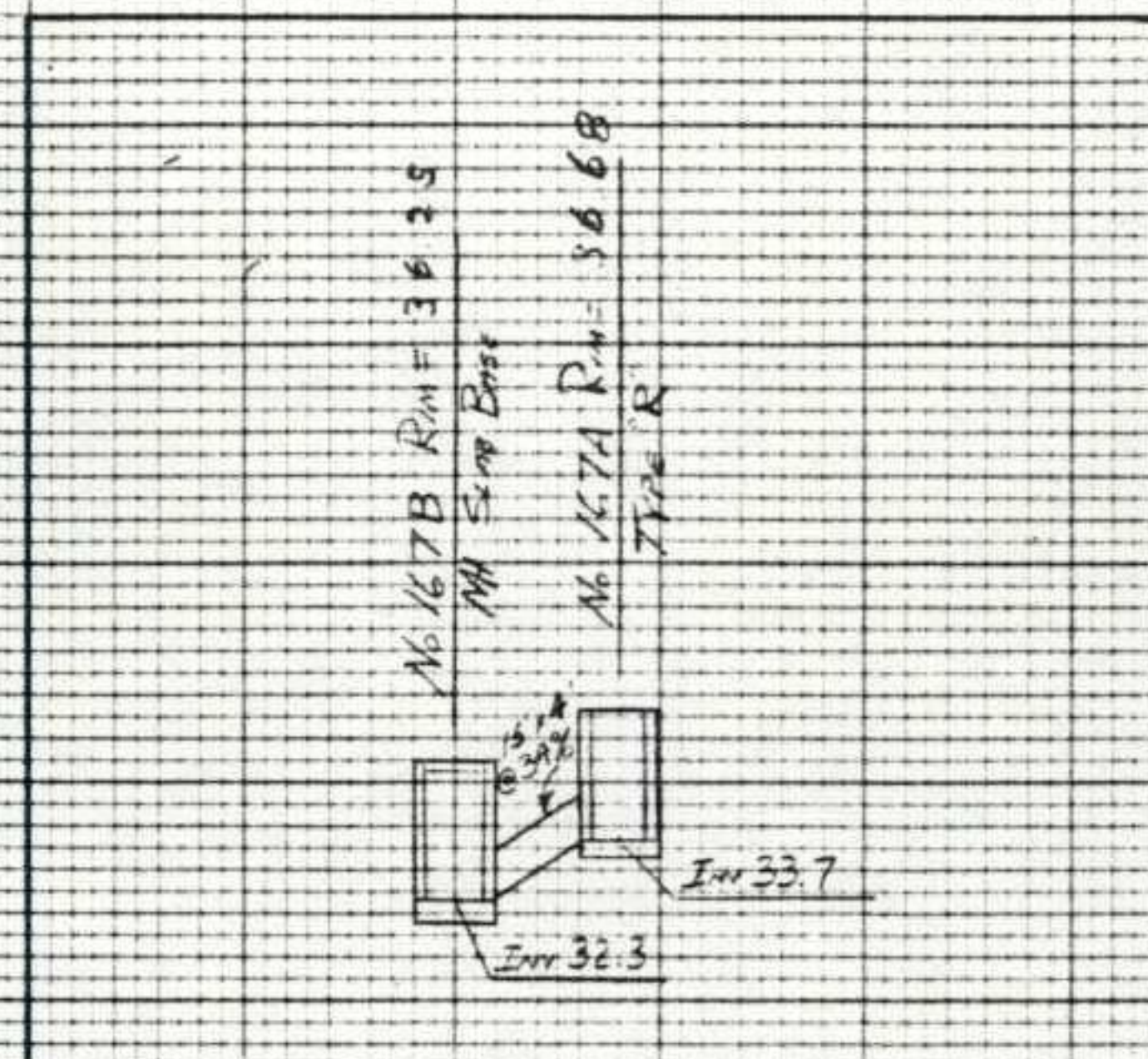
STR. BACKFILL
CL. 1. 09x54 = 4.86 Cu. Yds.
CL. 2. 25x54 = 13.50 Cu. Yds.
BEDDING
0.4x54 = 2.16 Cu. Yds.
STR. EXCAV.
3.85x(1.25+3)x54 = 32.75 Cu. Yds.

FIN.	DATE
SURVEY	
NOTED	
NO. 1	

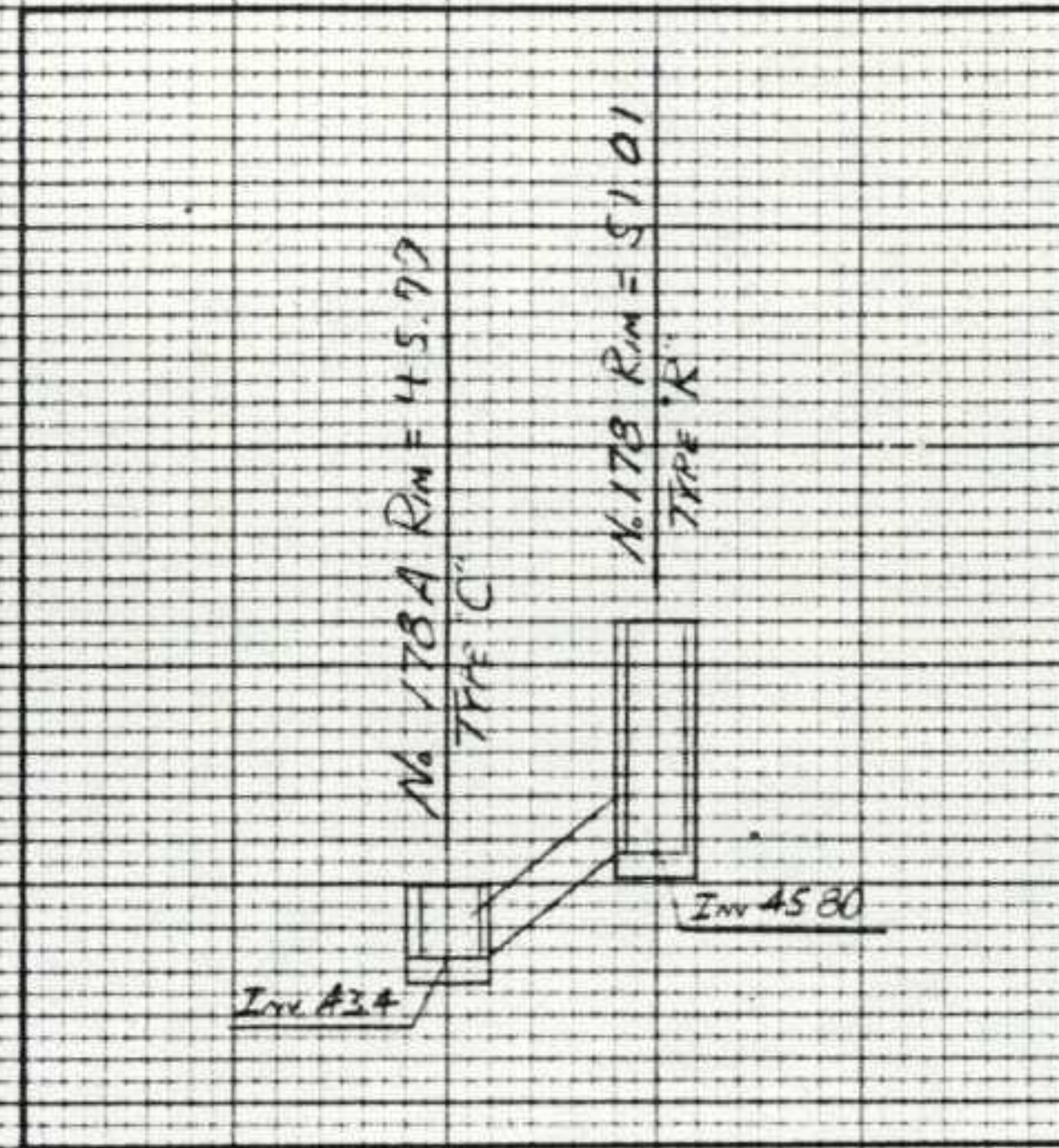
ORIGINAL	DATE
SURVEY	
NOTED	
NO. 1	

AS CONSTRUCTED		FEDERAL ROAD REGION NO	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	REVISED 10-1-83	VOID	III	COLORADO	PR003-1(3) RMS 0004-11	26AX

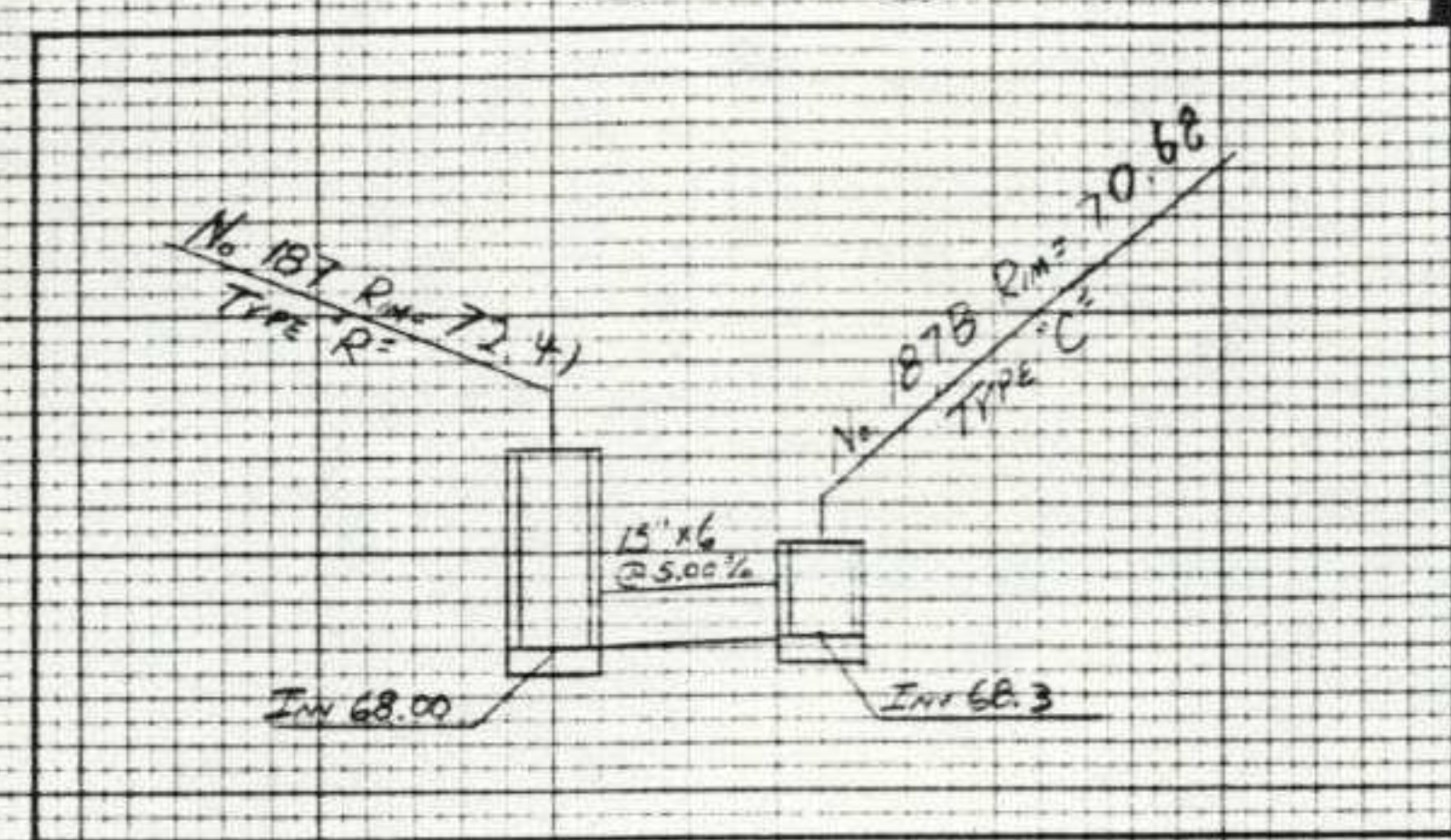
Sta 167+43 Rt
(167B) to (167A)



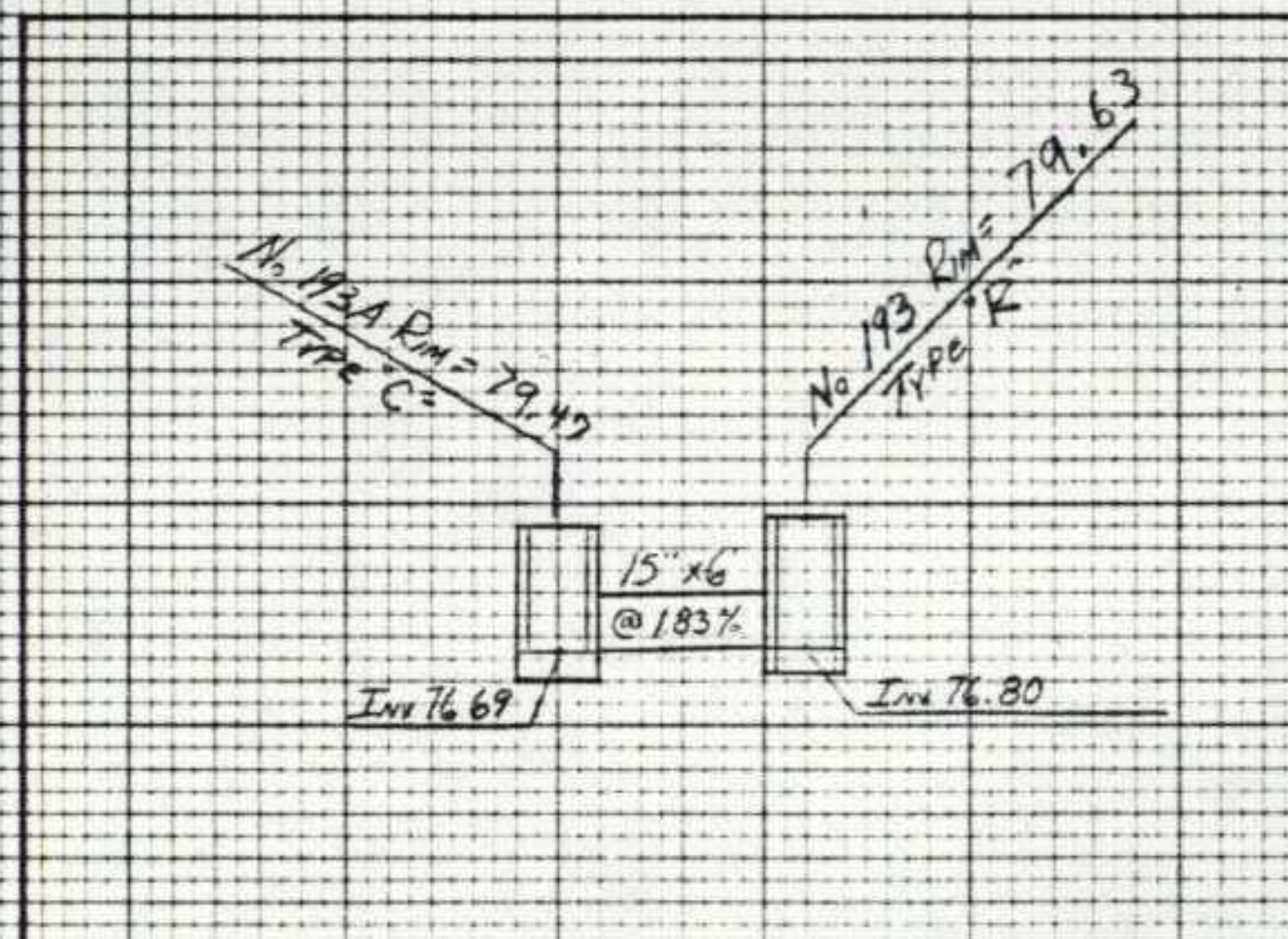
Sta 178+79 Rt
(178A) to (178)



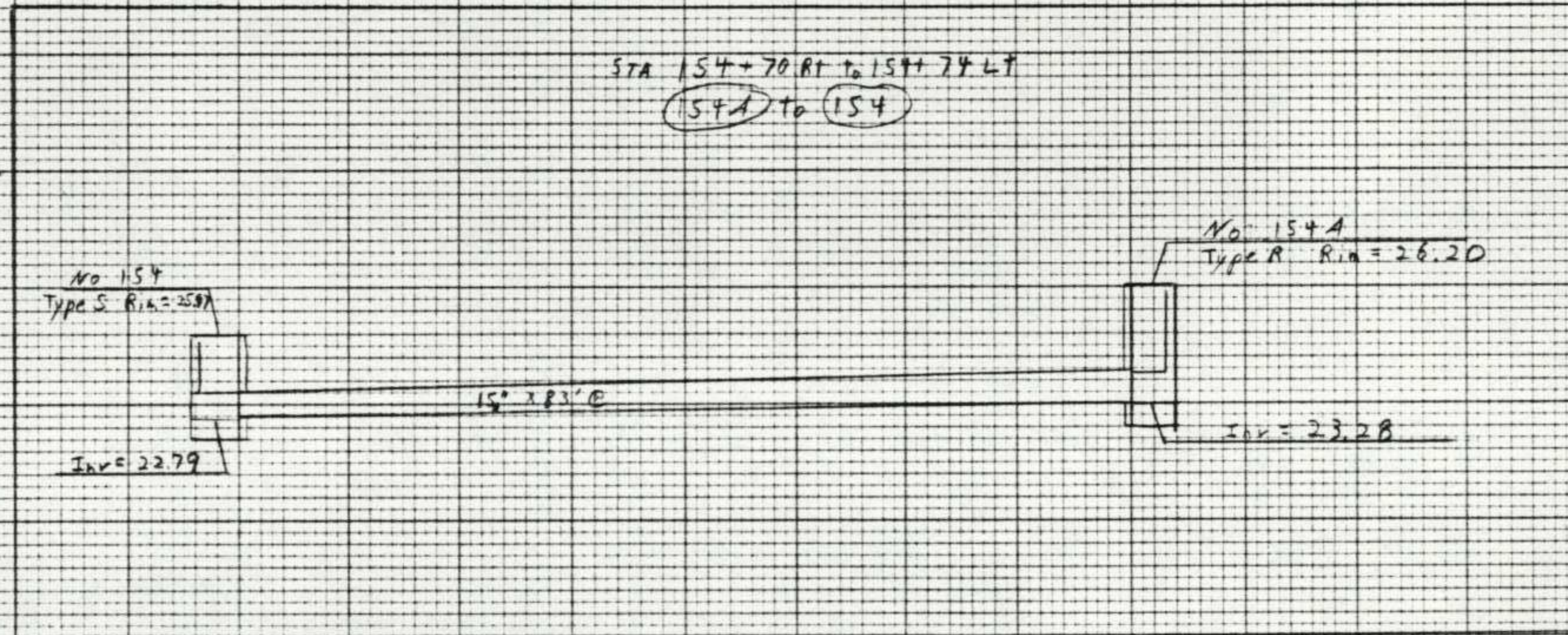
Sta 187+50 Rt
(187) to (187B)



Sta 193+42 Rt
(193A) to (193)



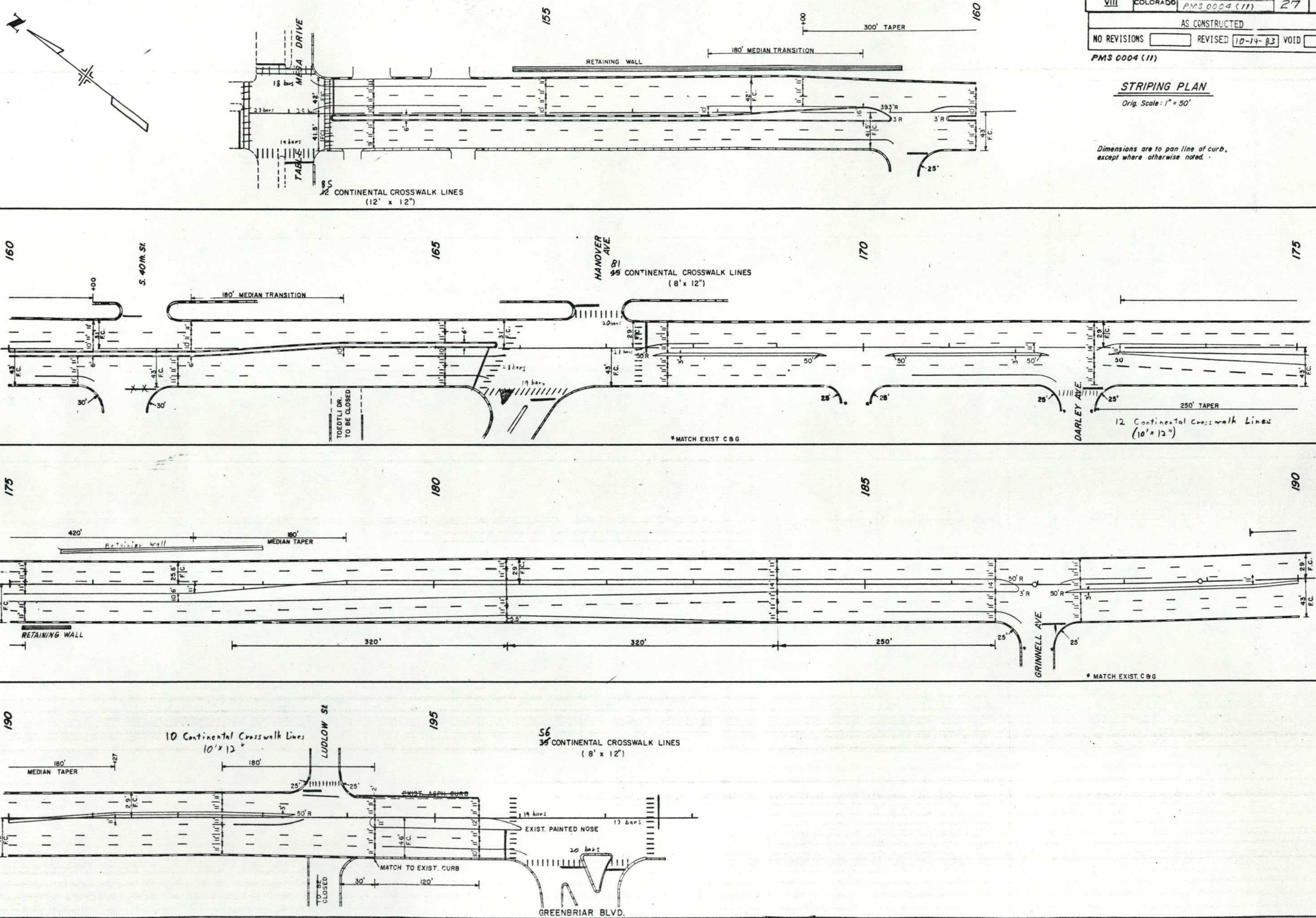
Sta 154+70 Rt to 154+74 Lt
(154A) to (154)



FEDERAL ROAD REGION NO.	DIVISION	COMBINED PROJ. NO'S.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	FRU 093-1(3) PMS 0004 (11)	27	
AS CONSTRUCTED				
NO REVISIONS		REVISED 10-14-83	VOID	
PMS 0004 (11)				

STRIPING PLAN
Orig. Scale: 1" = 50'

Dimensions are to pan line of curb, except where otherwise noted.



FINAL TABULATION OF PAVEMENT MARKINGS

AS CONSTRUCTED

NO REVISIONS

REVISED 10-14-83 VOID

23 VOID

FEDERAL ROAD REGION NO.	VIII
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DIVISION
COLORADO

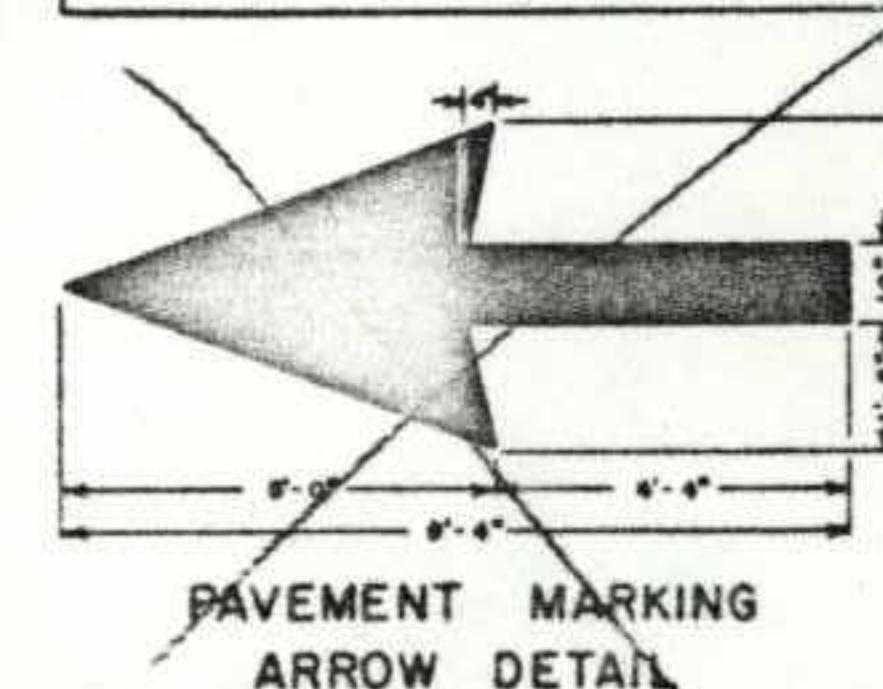
COMBINED PROJ. No's
FRU 093-1(3)
FRU 093-1(4)

DATE 2018 SHEET NO. 28

TOTAL SHEET	
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PMS 0004 (11)

STATION	LOCATION	PAVEMENT MARKING LINES (Linear Feet)										CROSS-WALK WHITE SOLID 12 INCH	STOP WHITE SOLID 24 INCH
		EDGE		LANE WHITE BROKEN 5 INCH	CENTER Couple YELLOW SOLID 5 INCH		CHANNELIZING		CROSSHATCH				
		WHITE SOLID 4 INCH	YELLOW SOLID 4 INCH		WHITE SOLID 10 INCH	YELLOW SOLID 10 INCH	WHITE SOLID 10 INCH	YELLOW SOLID 10 INCH					
152+35 TO 166+45	SH 93 NB. & SB.		660	2820									
167+60 TO 195+50	SH 93 NB. & SB.		1370	5580									
152+25 TO 154+30	RT. TURN NB.							205	179				
154+30 TO 156+30	RT. TURN NB.		60	200									
152+25 TO 154+00	LT. TURN NB.							175	147				
154+00 TO 155+60	LT. TURN NB.		40	160									
159+45 TO 160+50	LT. TURN NB.							105	105				
160+50 TO 161+35	LT. TURN NB.		20	85									
167+40 TO 168+20	LT. TURN NB.							80	61				
168+20 TO 169+00	LT. TURN NB.		90	80									
170+65 TO 172+00	ACCEL LANE NB.			135									
172+70 TO 174+45	LT. TURN NB.							175	178				
174+45 TO 175+90	LT. TURN NB.		30	145									
187+25 TO 188+35	LT. TURN NB.							110	107				
188+35 TO 189+20	LT. TURN NB.		20	85									
167+55 TO 169+55	MEDIAN				800	1022							
170+25 TO 172+20	MEDIAN				780								
172+85 TO 186+80	MEDIAN				5580	2793							
187+30 TO 193+30	MEDIAN				2400	1235							
194+25 TO 196+00	MEDIAN				700	385							
164+80 TO 165+50	LT. TURN SB.		20	70									
165+50 TO 166+75	LT. TURN SB.							125	93				
192+00 TO 192+70	LT. TURN SB.		20	70									
192+70 TO 193+50	LT. TURN SB.							80	80				
152+35 TO 154+00	ACCEL. LANE SB.		30	165									
156+65 TO 157+80	RT. TURN SB.		30	116									
157+80 TO 159+10	RT. TURN SB.							130	129				
159+60 TO 160+25	RT. TURN SB.		20	65									
160+25 TO 170+00	RT. TURN SB.							75	89				
161+90 TO 162+80	ACCEL LANE SB.		20	90									
165+00 TO 165+80	RT. TURN SB.		20	80									
165+80 TO 166+75	RT. TURN SB.							85	79				
167+60 TO 169+10	ACCEL. LANE SB.		50	150									
170+50 TO 172+25	RT. TURN SB.							175	177				
177+65 TO 182+65	RT. EDGE TAPER SB.	2000											
184+00 TO 185+25	RT. TURN SB.		80	125									
185+25 TO 186+80	RT. TURN SB.							155	158				
187+60 TO 194+35	ACCEL-DECEL SB.		20	675									
194+35 TO 196+10	RT. TURN SB.							175	152				
159+30	SIDEROAD RT.											25	
161+50	S. 40TH ST.											70	
172+60	DARLEY AVE.									120		25	
187+20	GRINNEL AVE.											30	
193+60	LUDLOW AVE.									100		60	
	TABLE MESA DR.									1020	583	119	
	HANOVER AVE.									648	392		
	GREENBRIAR BLVD.									448	312		



NOTE:

FOR DETAILS OF PAVEMENT MARKING
LINES AND LINE PLACEMENT, SEE
STANDARD S-627-1

- Crosswalk and Stop lines placed in Preformed Plastic Pavement Marking (60mils)

CMD #6

SUMMARY OF PAVEMENT MARKING QUANTITIES			
COLOR	PAINT (GAL)	THERMOPLASTIC (SQ. FT.)	Preform (KBT)
YELLOW	—	4275 4529	—
WHITE	—	4797 2528	3302
TOTAL	—	9072 7057	3302