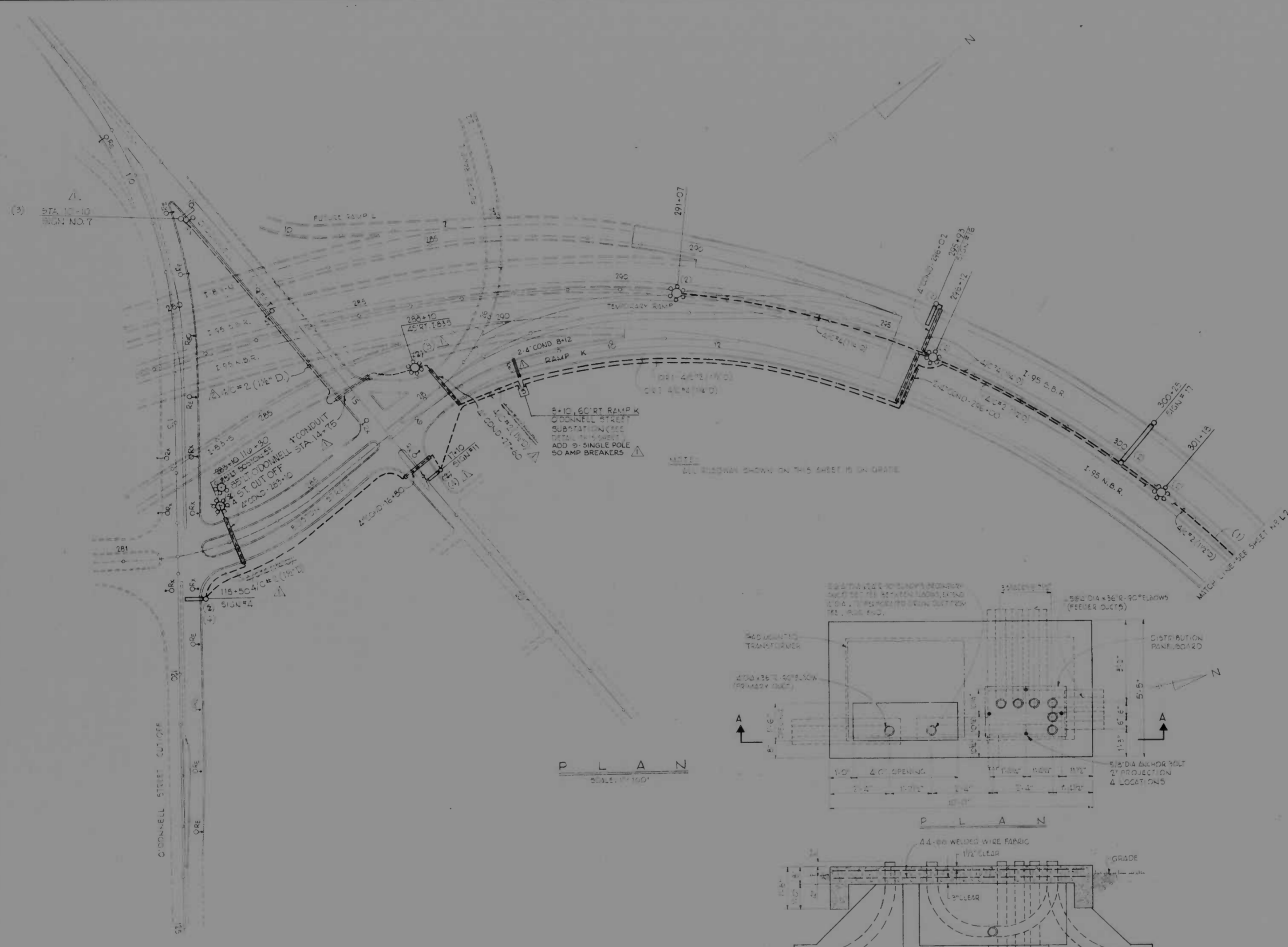


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	(119)	L-8

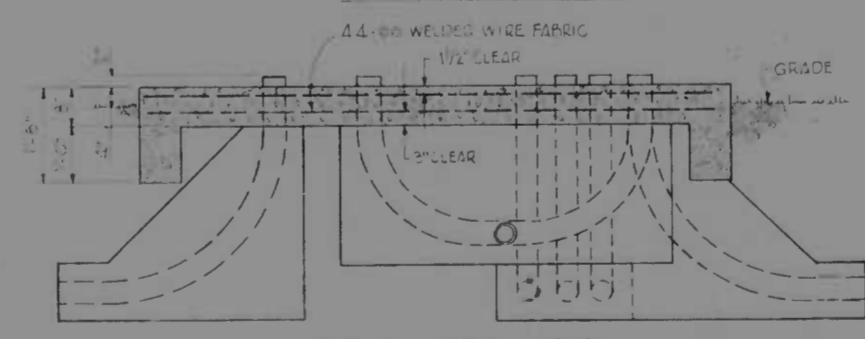
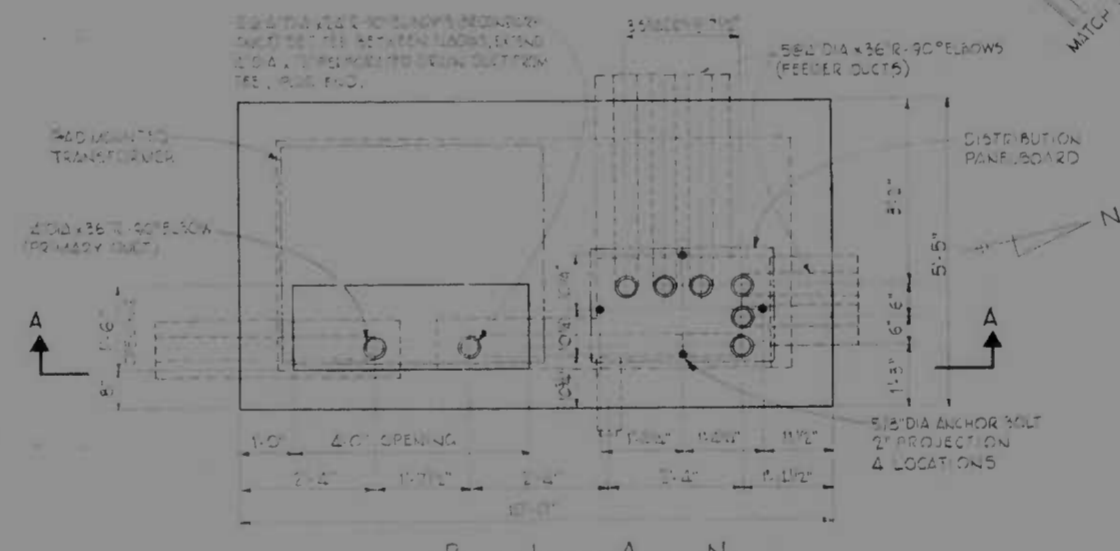


LEGEND

- 45' MAST LIGHTING STANDARD - 4 LUMINAIRES.
- HIGH MAST LIGHTING STANDARD - 6 LUMINAIRES.
- DIRECT BURIAL CABLE DUCT WITH PARALLEL BARE GROUND WIRE.
- CABLE DUCT AND GROUND WIRE PASSING THRU CONDUIT SLEEVE.
- SINGLE CONDUCTOR WIRING IN CONDUIT OR DUCT.
- PEDESTAL MOUNTED SIGN.
- BRIDGE SIGN.
- SUBSTATION-DISTRIBUTION PANEL.
- EXISTING STREET LIGHTING STANDARD TO BE REMOVED BY BALTIMORE CITY AND ELECTRIC COMPANY WHEN DISPOSED BY BALTIMORE CITY.
- EXISTING STREET LIGHTING STANDARD TO BE RELOCATED BY BALTIMORE CITY AND ELECTRIC COMPANY WHEN DISPOSED BY BALTIMORE CITY.

NOTES:

1. ALL UNDERGROUND CONDUIT SHOWN IS EXISTING OR IS PROVIDED UNDER ANOTHER DIVISION OF THIS CONTRACT.
2. ALL CONDUIT IN STRUCTURES SHOWN IS EXISTING OR IS PROVIDED UNDER ANOTHER DIVISION OF THIS CONTRACT.
3. ALL HIGH MAST LIGHTING STANDARD AND SIGN FOUNDATIONS SEE EXISTING ON FILE PROVIDED UNDER ANOTHER SECTION OF THIS CONTRACT.
4. CONTRACTOR SHALL BALANCE LOADS ON CIRCUITS.
5. STA 10+10 TO 14+75 O'DONNELL STREET CONTRACTOR TO PLACE DIRECT BURIAL CABLE 6' BEHIND FACE OF CURB.
6. STA 14+00 TO 14+75 O'DONNELL STREET CONTRACTOR TO COVER DIRECT BURIAL CABLE WITH 1"x3" CREASOTED BOARDS FOR FUTURE EXCAVATION.
7. STA 14+75 O'DONNELL STREET CONTRACTOR TO PLACE AN ADDITIONAL 50' OF DIRECT BURIAL CABLE IN A LOOP AS SHOWN.

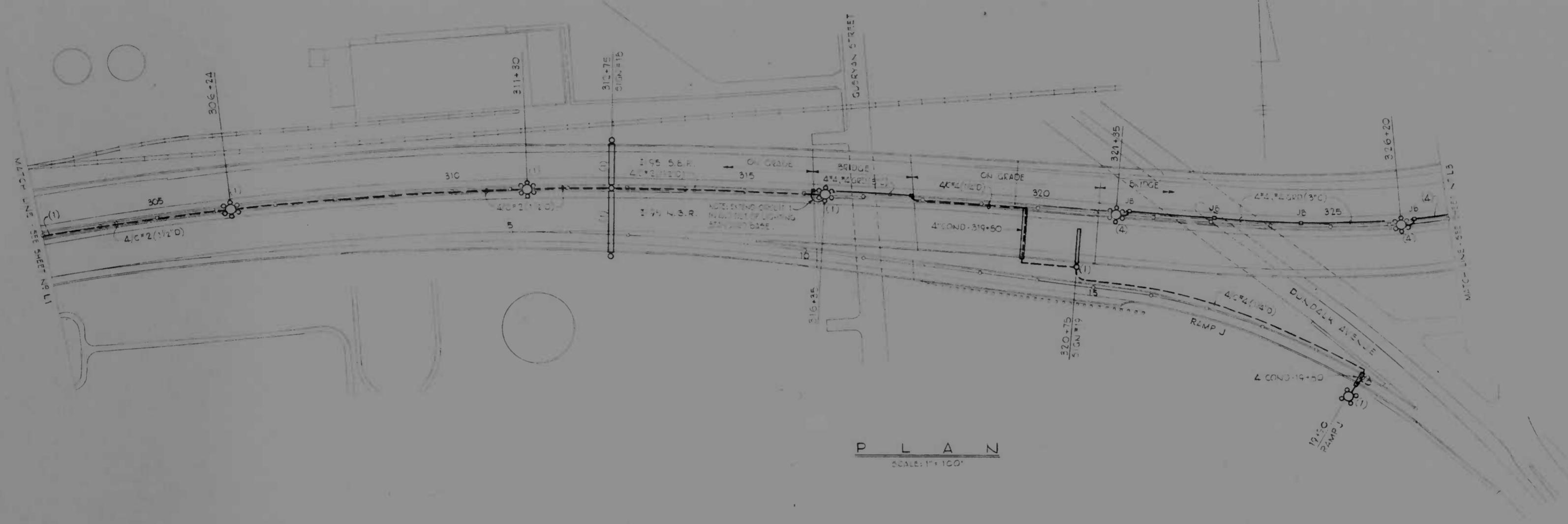


DETAIL - SUBSTATION FOUNDATION
NOT TO SCALE

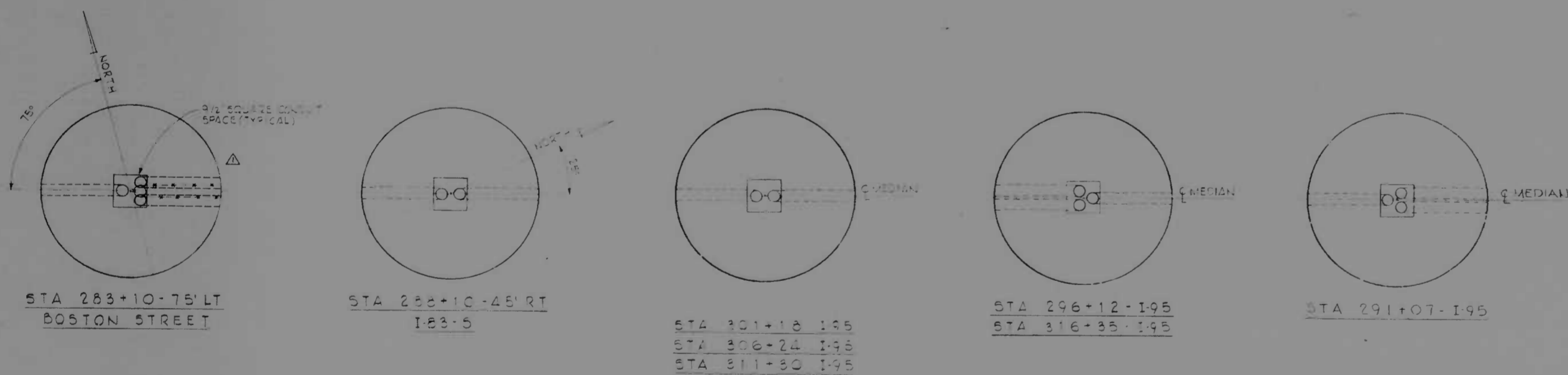
REVISIONS REVISION 07-10-74 REVISION 07-74	CONSULTANT ANDREI, BENDER, STONE & ASSOCIATES MATZ, CHANG & ASSOCIATES CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET			
SCALE: 1"=100'		DATE: MAY 11, 1973		DES. BY: R.C.D. CHK. BY: R.C.D.	SHEET NO. (119) L1 OF L-8

106 BALTIMORE 17-1933

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	L2	(119) L-8



P L A N
SCALE: 1" = 100'

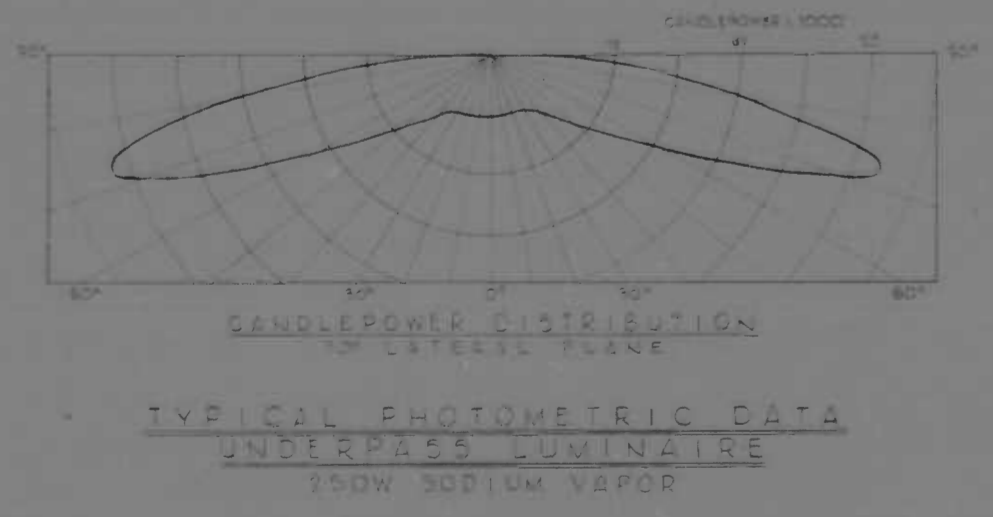
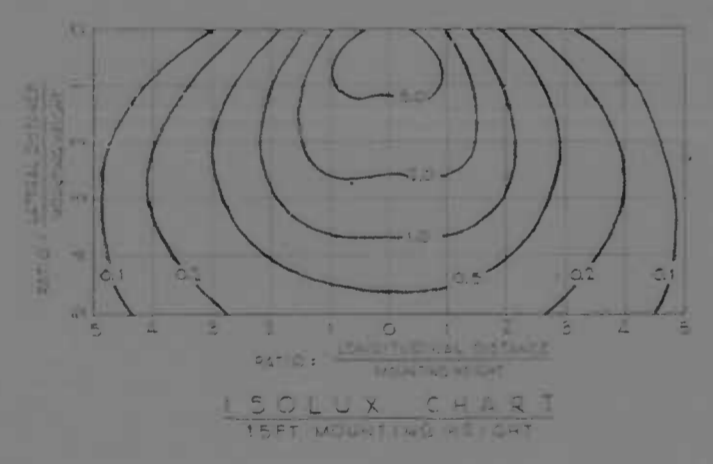
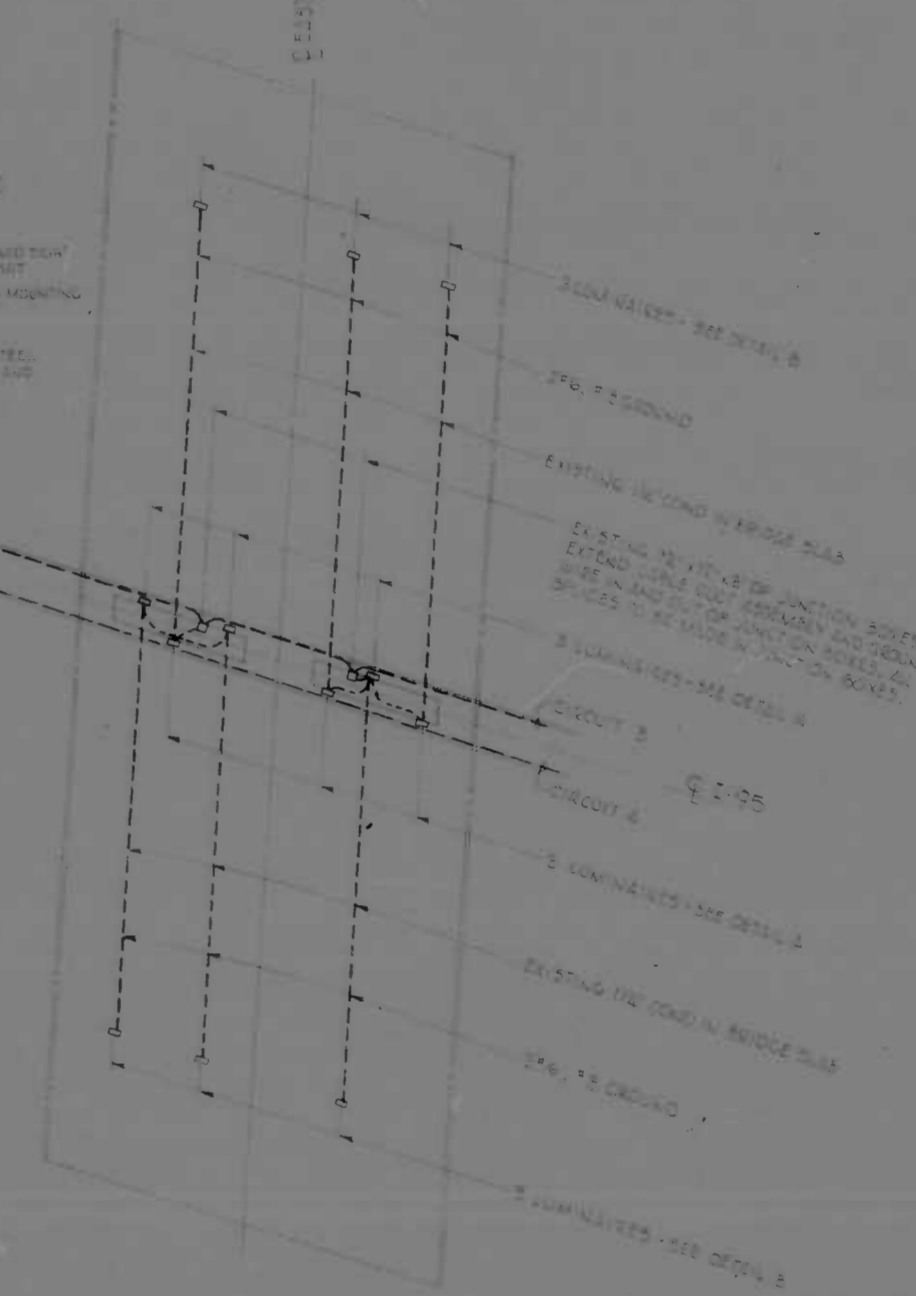
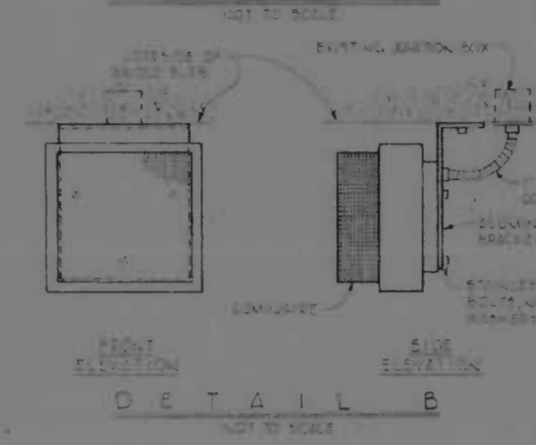
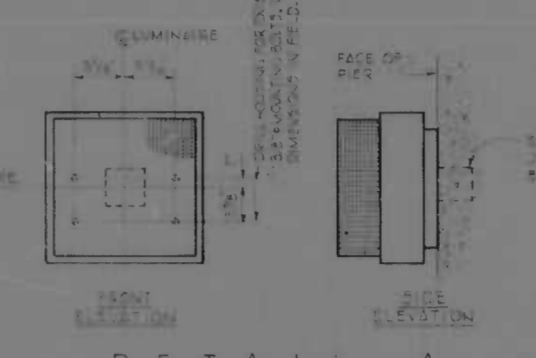
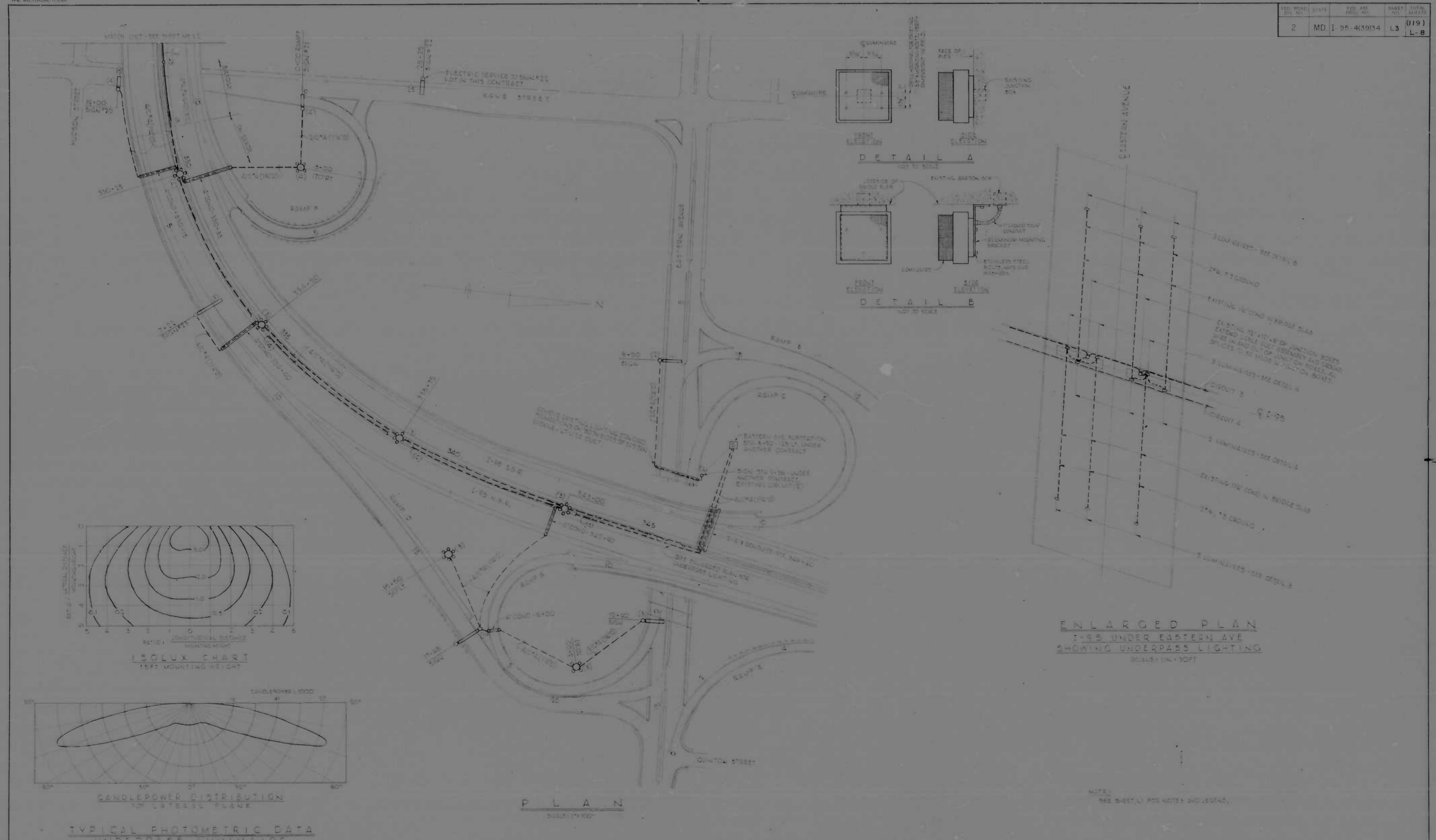


CONDUIT ENTRANCES - NEW LIGHTING STANDARD FOUNDATIONS
NOT TO SCALE

NOTE:
SEE SHEET L1 FOR NOTES AND LEGEND

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
Δ CONDUIT ENTRANCE REVISED 5/11/98	KNOX, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY J.H.L. TRACED BY _____ F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
		SCALE: 1" = 100' DATE: MAY 11, 1973	DES. BY R.C.D. CHK. BY R.C.D. SHEET NO. (119) L2 OF L-8

FED. ROAD DIST. NO.	STATE	F.P. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	L3	(119)
				L-8



TYPICAL PHOTOMETRIC DATA
UNDERPASS LUMINAIRE
250W SODIUM VAPOR

PLAN
SCALE: 1"=100'

ENLARGED PLAN
1:95 UNDER EASTERN AVE
SHOWING UNDERPASS LIGHTING
SCALE: 1/4"=100'

NOTE:
SEE SHEET L-2 FOR NOTES AND LEGEND.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNORR, BENDER, STONE & ASSOC., INC. AND WATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 345 N. BALTIMORE STREET BALTIMORE, MARYLAND		
SCALE: AS NOTED		DATE: MAY 11, 1973	SHEET NO. (119) L3 OF L8

STRUCTURAL REQUIREMENTS - LIGHTING STANDARDS

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	T-95-4(39)34	L4	(119) L-8

HEIGHT OF POLE (FEET)	NOMINAL BASE DIA. INCHES	SECTION A		SECTION B		SECTION C		SECTION D		SECTION E		SECTION F		SECTION G	
		LENGTH FEET	GAGE AVG	LENGTH FEET	GAGE AVG	LENGTH FEET	GAGE AVG	LENGTH FEET	GAGE AVG	LENGTH FEET	GAGE AVG	LENGTH FEET	GAGE AVG	LENGTH FEET	GAGE AVG
80	17.5	20	3	20	7	20	11	20	11	-	-	-	-	-	-
85	17.5	20	3	20	7	15	7	15	11	15	11	-	-	-	-
90	17.5	20	3	20	7	20	7	15	11	15	11	-	-	-	-
95	17.5	20	3	20	3	20	7	20	7	15	11	-	-	-	-
100	17.5	20	0	20	3	20	7	20	7	20	7	-	-	-	-
105	21.5	20	0	20	3	20	7	15	7	15	11	-	-	-	-
110	21.5	20	0	20	3	20	7	20	7	15	7	15	11	-	-
115	21.5	20	0	20	3	20	3	20	7	20	7	15	11	-	-
120	21.5	20	7-7	20	0	20	3	20	3	20	7	20	7	-	-
125	23.5	30	7-7	20	0	20	3	20	3	20	7	15	11	-	-
130	23.5	30	7-7	20	0	20	0	20	3	20	7	20	11	-	-
135	27.0	20	3-3	25	7-7	30	0	20	0	20	3	20	7	-	-
140	25.0	25	3-3	25	7-7	30	0	20	0	20	3	20	7	-	-
145	28.5	30	3-3	25	7-7	30	0	20	0	20	3	20	7	-	-
150	29.0	35	3-3	25	7-7	30	0	20	0	20	3	20	7	-	-

NOTE: TABULATED SECTION LENGTHS DO NOT INCLUDE LAP JOINT. LAP JOINT PRODUCED BY TELESCOPING SECTIONS AND SHALL HAVE A MINIMUM LENGTH EQUAL TO TWO SHAFT DIAMETERS AS DETERMINED BY MEASURING THE MINIMUM DIAMETER OF THE INNER TELESCOPING SECTION.

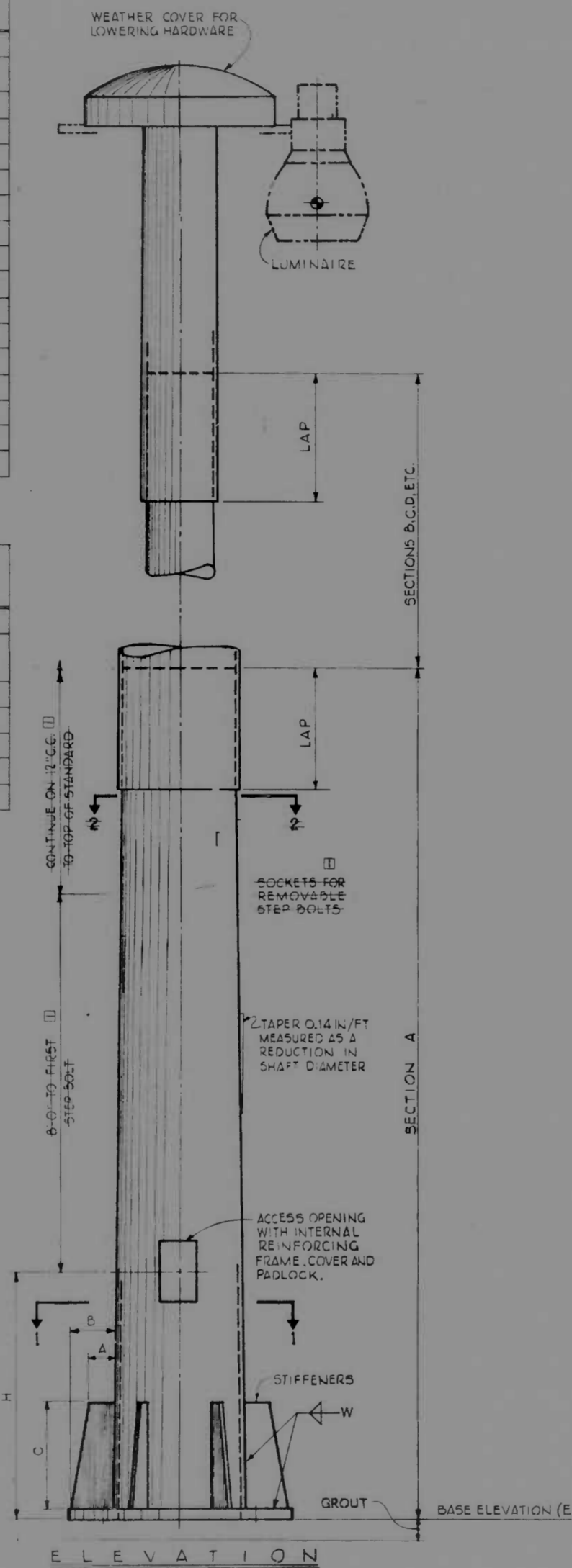
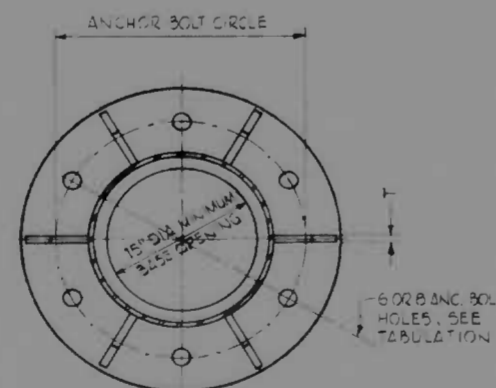
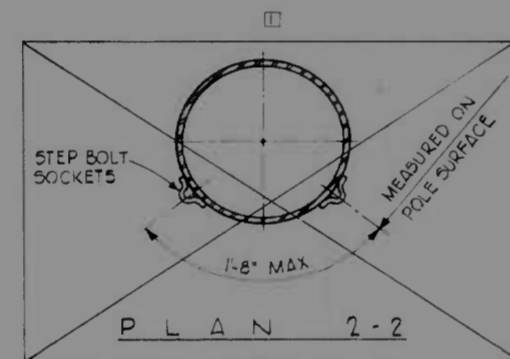
BASE DATA - LIGHTING STANDARDS
(DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE)

POLE HEIGHTS (FEET)	BASE PLATE		ANCHOR BOLT HOLES			ANCHOR BOLT WASHERS		DIMENSIONS - STIFFENERS						
	DIAMETER INCHES	THICKNESS INCHES	BOLT CIRCLE DIAMETER INCHES	NO. HOLES REQUIRED	BOLT DIAMETER INCHES	HOLE DIAMETER INCHES	DIAMETER INCHES	THICKNESS INCHES	NUMBER REQUIRED	A	B	C	T	W
80 THRU 100	35	1 1/2	25	6	2 1/4	2 1/2	6 1/4	3/4	6	3 3/4	6 3/4	12	3 1/2	5 1/16
105 THRU 120	35 1/2	1 3/4	30 1/2	6	2 1/2	2 1/2	7 1/2	1	6	4 1/2	7 1/2	16	3 1/2	5 1/16
125 AND 130	42	2	34	6	2 1/2	2 3/4	7 3/4	1 1/8	6	5 1/4	8 1/4	17	3 1/2	5 1/16
135 AND 140	46	2 1/4	34	8	2 1/2	2 3/4	7 3/4 *	1 1/8	8	5 1/2	8	18	1 1/2	5 1/16
145 AND 150	48	2 1/2	34	8	2 1/2	2 3/4	7 3/4 *	1 1/8	8	6	8 1/2	20	1 1/2	5 1/16

* CLIP WASHERS TO CLEAR POLE.

GENERAL NOTES:

- STRUCTURAL DESIGN IS BASED ON AASHTO SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY LUMINAIRES, DATED 1971.
- MAXIMUM ALLOWABLE SHAFT DEFLECTION IS 1/8" ON TOP.
- THE DESIGN PROVIDES FOR MOUNTING SIX 75LB LUMINAIRES WITH A TOTAL PROJECTED AREA OF 20 SQUARE FEET.
- LIGHTING STANDARDS SHALL BE FABRICATED FROM WEATHERING STEEL CONFORMING TO ASTM SPECIFICATION A-588.
- ALL FILLET WELDS FOR STIFFENER PLATES TO BE BUILT UP TO OBTAIN FULL THROAT THICKNESS.
- DATA SHOWN TAKEN FROM STATE HIGHWAY ADMINISTRATION STANDARD DRAWING FOR POLES THROUGH 130 FEET IN HEIGHT.



TABULATION OF LIGHTING STANDARDS

STATION	LOCATION	POLE HEIGHT (FEET)	SECTION A LENGTH (FEET)	SECTION B LENGTH (FEET)	SECTION C LENGTH (FEET)	SECTION D LENGTH (FEET)	SECTION E LENGTH (FEET)	SECTION F LENGTH (FEET)	SECTION G LENGTH (FEET)	TYPE OF INSTALLATION		BASE ELEVATION (FEET)
										STANDARD	LUMINAIRE	
118+30	O'DONNELL ST CLIFF	140	4.0	-	-	-	-	-	-	I	A	30.00
288+10	I-95 S	140	4.0	-	-	-	-	-	-	I	A	41.82
291+07	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	II	D	68.92
296+12	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	II	D	67.51
301+15	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	II	D	76.70
308+24	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	II	D	86.73
311+30	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	II	D	95.33
316+35	I-95 MEDIUM	110	4.0	A, D	-	-	-	-	-	III	D	89.92
321+35	I-95 MEDIUM	115	4.0	A, B, D	-	-	-	-	-	III	D	79.41
326+20	I-95 MEDIUM	130	4.0	A, B, D	-	-	-	-	-	III	D	54.82
19+90	RAMP D - ROUND AVE.	100	4.0	-	-	-	-	-	-	I	E	49.68
3+00	RAMP B - KANE STREET	110	4.0	-	-	-	-	-	-	I	B	53.35
330+25	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	II	D	76.00
334+50	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	I	D	86.00
338+75	I-95 MEDIUM	100	4.0	-	-	-	-	-	-	II	D	61.00
343+00	I-95 MEDIUM	110	4.0	-	-	-	-	-	-	II	D	60.00
3+00	RAMP A - EASTERN AVE.	110	4.0	-	-	-	-	-	-	I	B	88.00
15+50	RAMP D - EASTERN AVE.	100	4.0	-	-	-	-	-	-	I	D	70.00

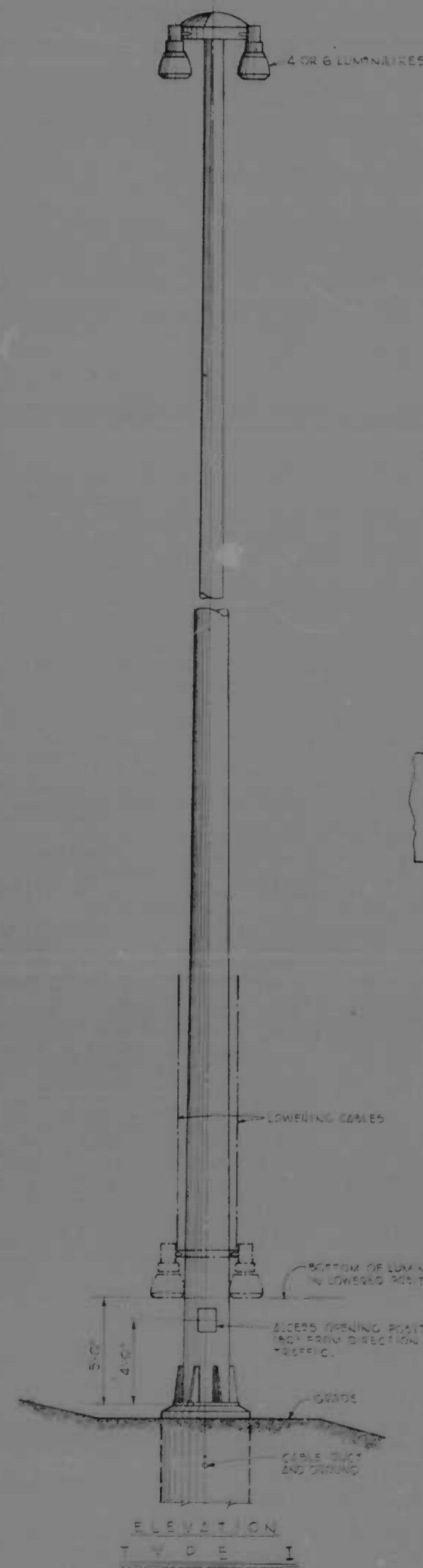
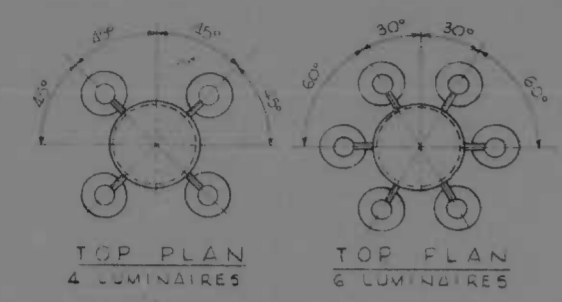
NOTE: HEIGHT OF ACCESS OPENING 'H' FOR TYPE III INSTALLATION TO BE VERIFIED IN FIELD BEFORE ORDERING STANDARD.

STRUCTURAL DETAILS - LIGHTING STANDARDS

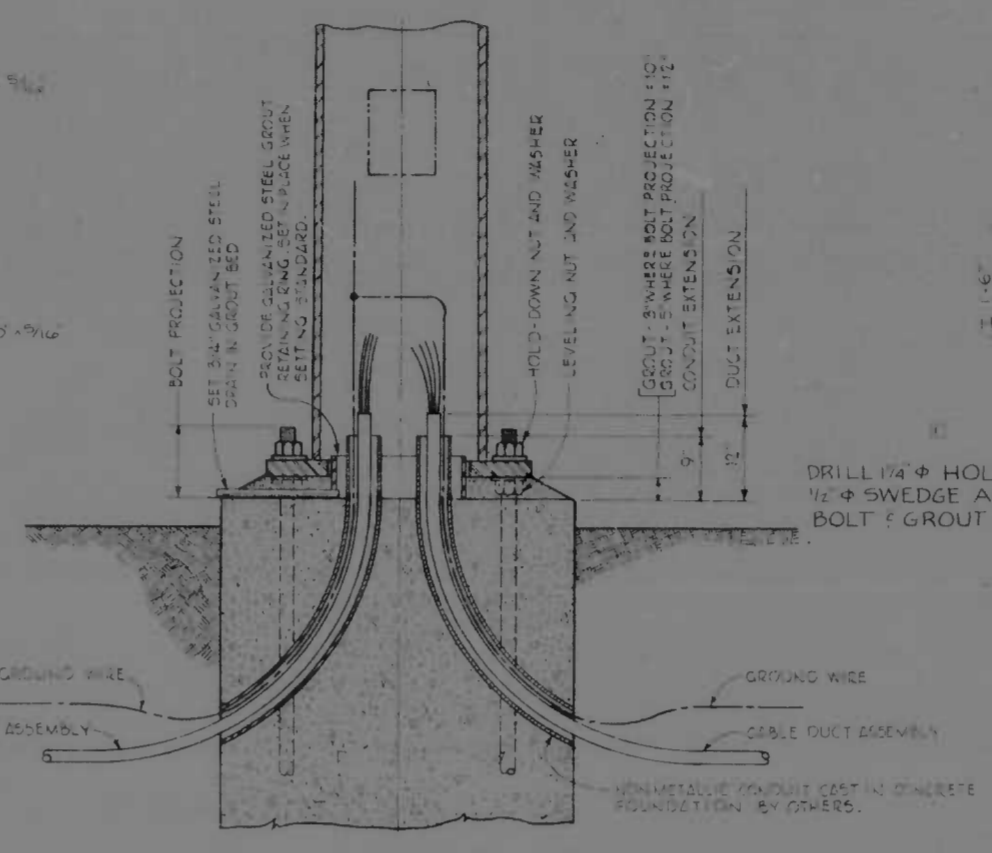
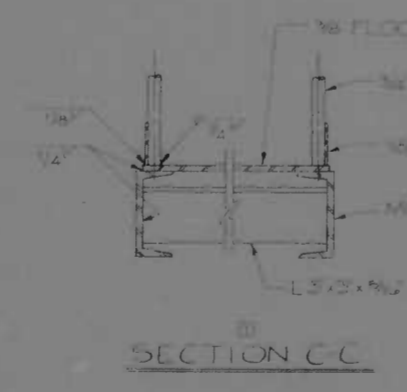
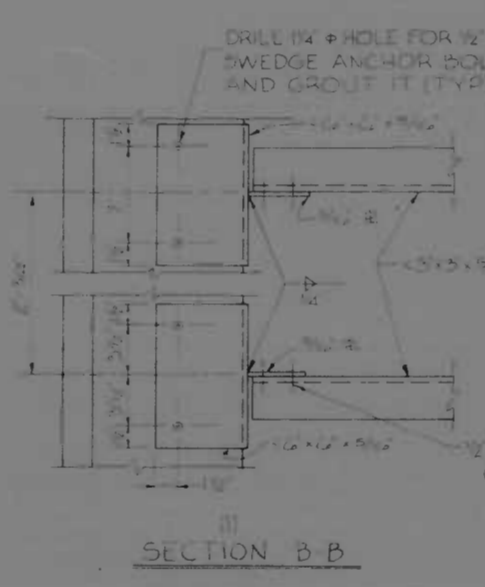
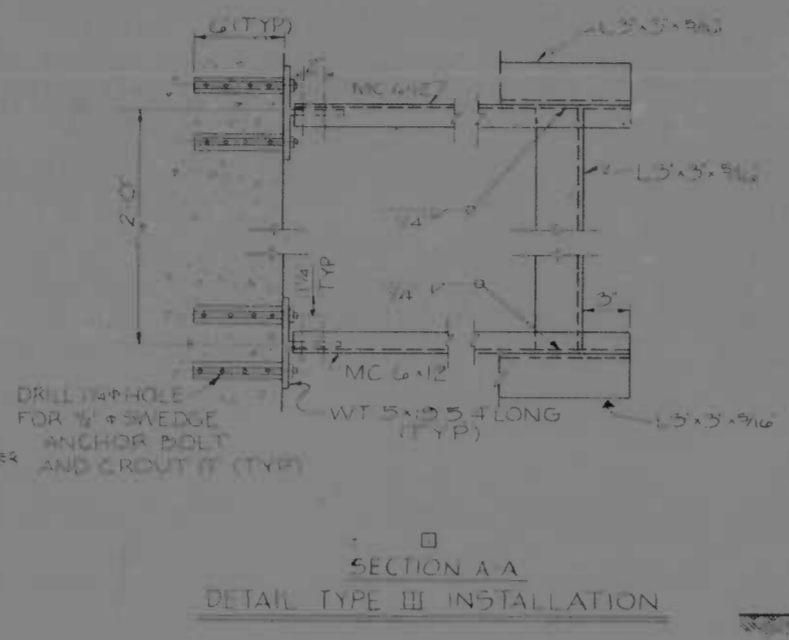
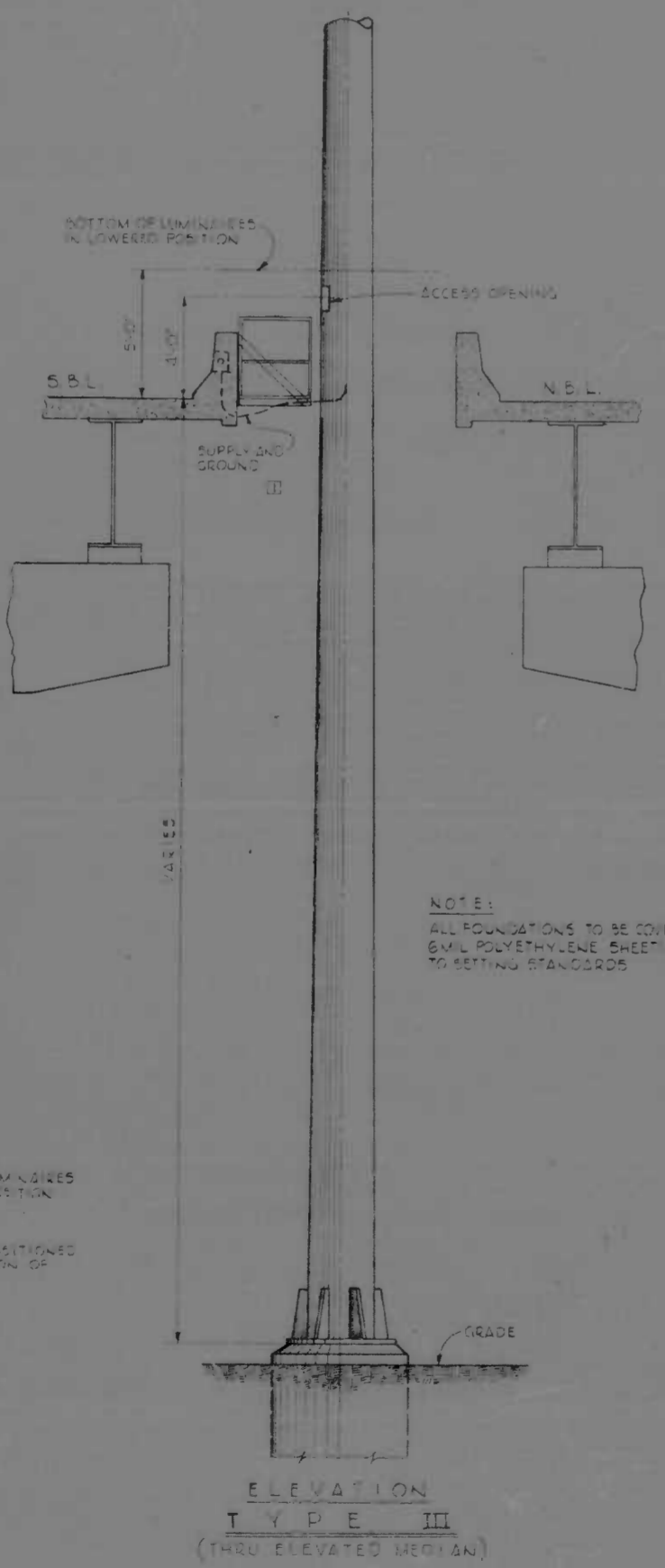
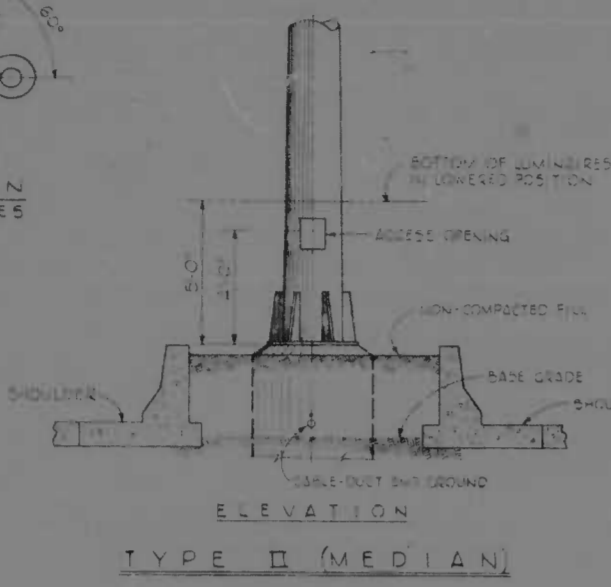
NOT TO SCALE

REVISIONS 1. ADDENDUM NO. 2 AUGUST 2, 1973 REVISION LIGHTING STANDARDS	CONSULTANT KNOERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
SCALE: NONE	DATE: MAY 11, 1973	DRAWN BY J.H.L. TRACED BY _____ DES. BY R.C.D. CHK. BY R.C.D.	SHEET NO. (119) L4 of L-8

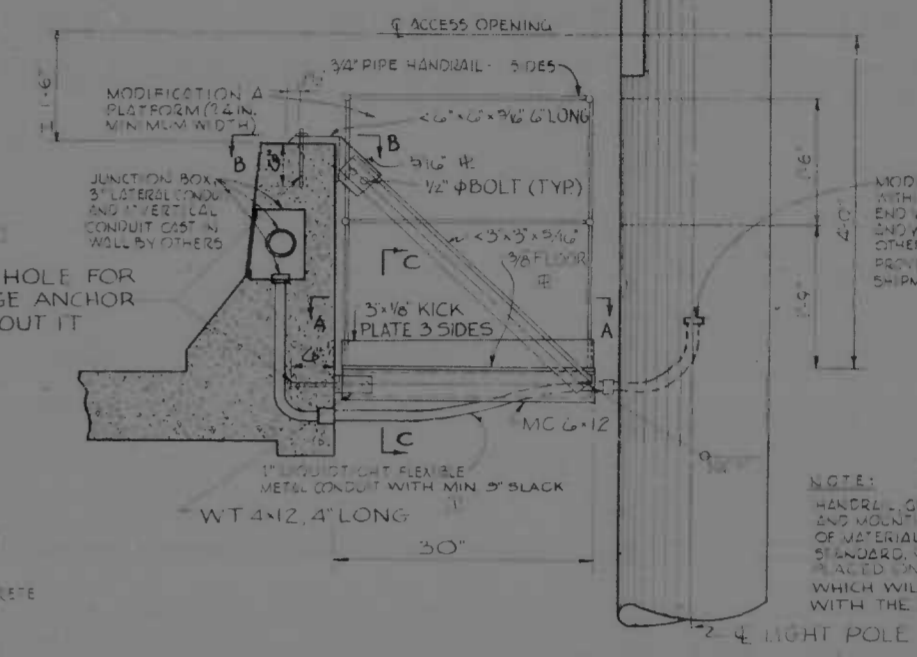
VEN & B 7035



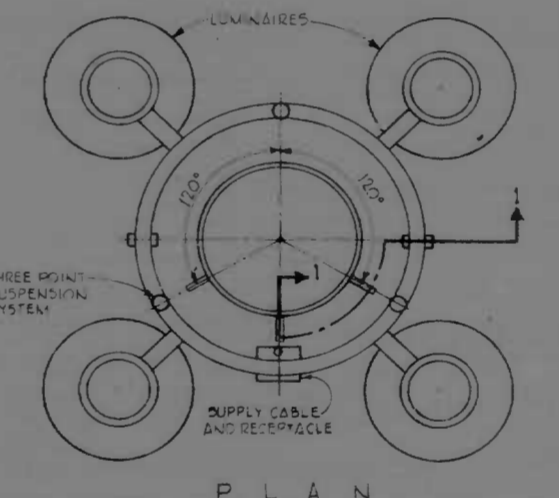
LIGHTING STANDARD INSTALLATION TYPES NOT TO SCALE



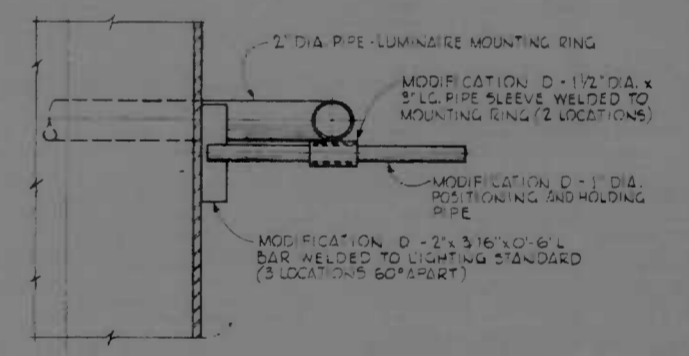
DETAIL AT BASE OF STANDARD TYPE I AND II INSTALLATIONS NOT TO SCALE



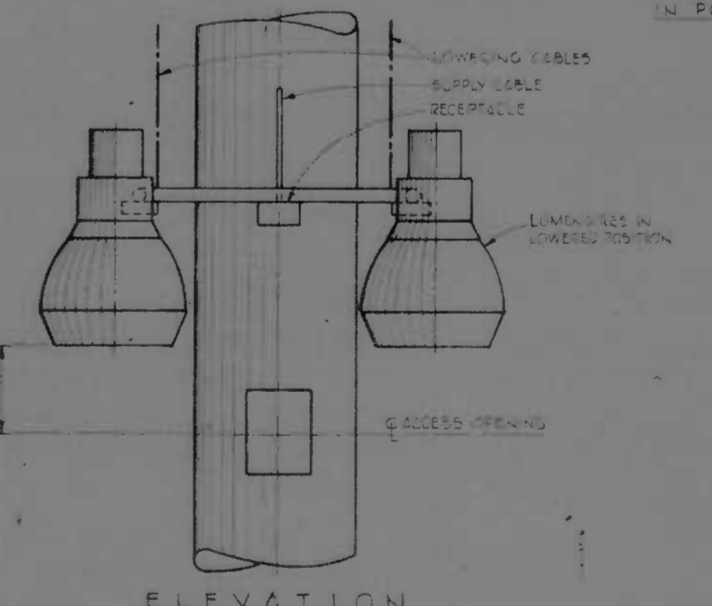
DETAIL - TYPE III INSTALLATION SHOWING LIGHTING STANDARD MODIFICATIONS A AND B NOT TO SCALE



PLAN



SECTION 1-1 METHOD OF HOLDING MOUNTING RING IN POSITION WHEN ROTATED TO SERVICE



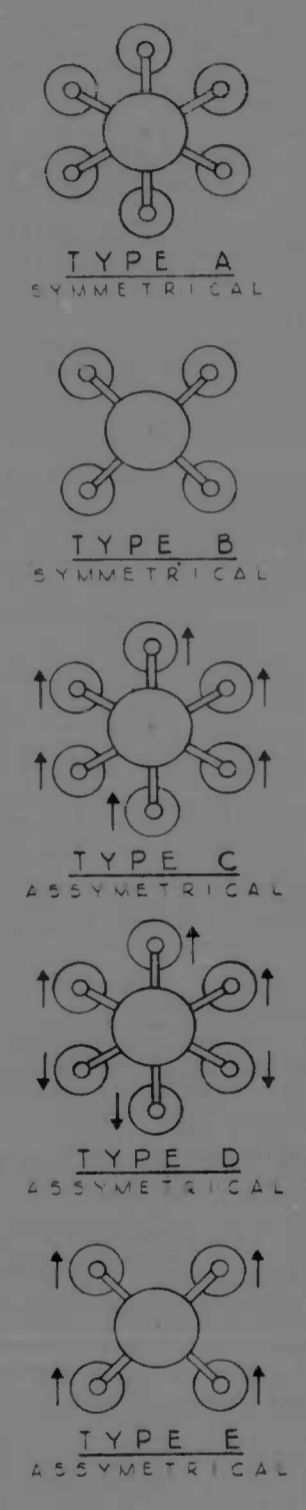
DETAILS - TYPE III AND IV INSTALLATIONS SHOWING LIGHTING STANDARD MODIFICATION D NOT TO SCALE

NOTE: ALL FOUNDATIONS TO BE COVERED WITH 6 MIL POLYETHYLENE SHEETING PRIOR TO SETTING STANDARDS

NOTE: HANDRAIL, KICKPLATE AND MOUNTING STEEL TO BE OF MATERIAL TO MATCH LIGHT STANDARD. CLEAR EXPOSURE AREAS WHICH WILL BE IN CONTACT WITH THE MOUNTING STEEL.

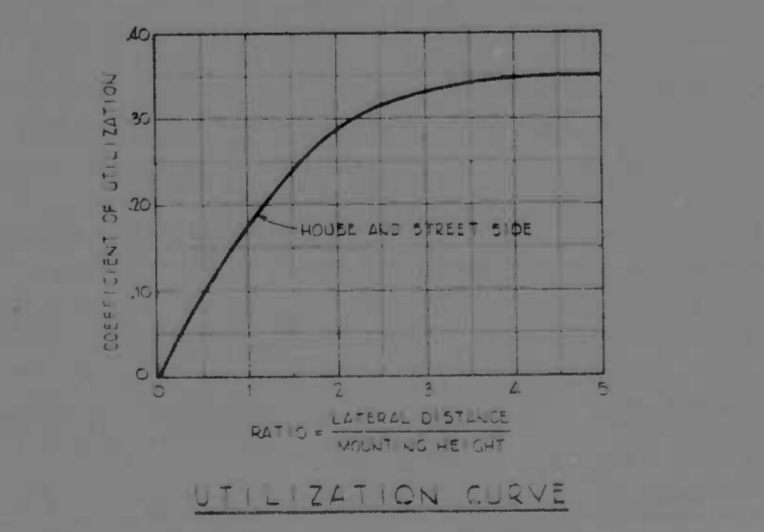
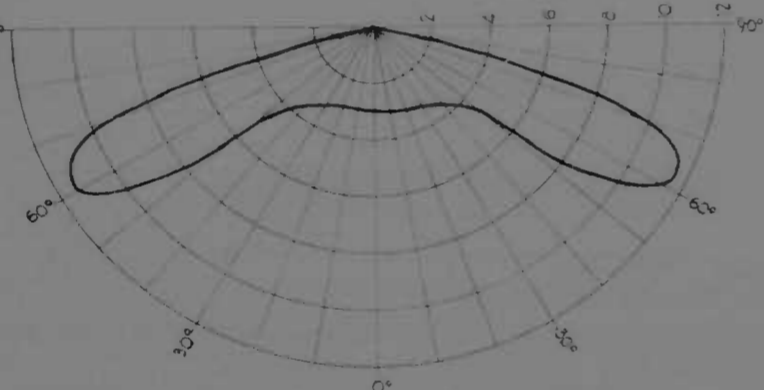
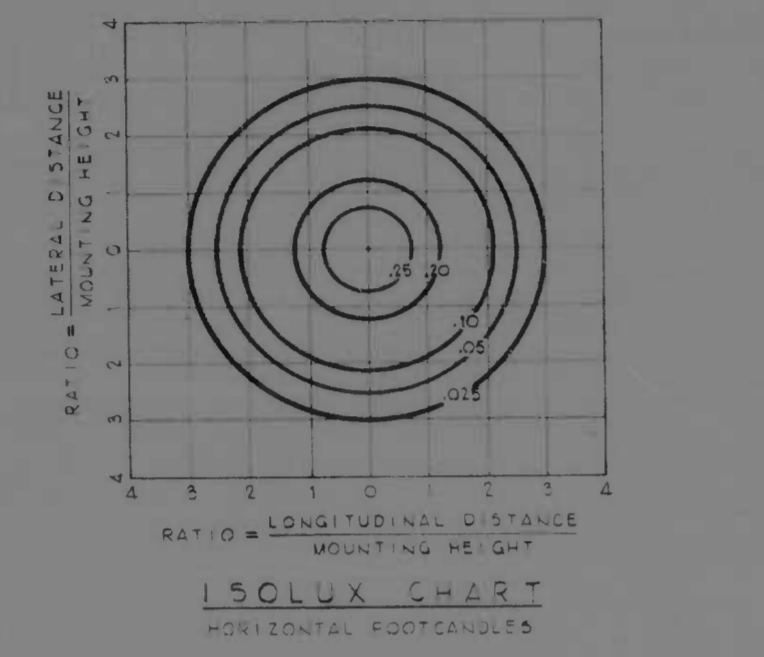
REVISIONS ADDENDUM NO. 2 AUGUST 21, 1973	CONSULTANT KNOERL, BENDER, STINE & ANDERSON, INC. MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 843 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY: J.H.L. TRACED BY: J.H.L. F.A.P. NO. I-95-4(33)34 S.B.D. NO. B.C. 248-36-915 BALTO. CITY NO. 1998
		DES. BY: R.C.D. CHK. BY: R.C.D.	SHEET NO. (1) 1 LS OF L-8

MOUNTING ARRANGEMENTS

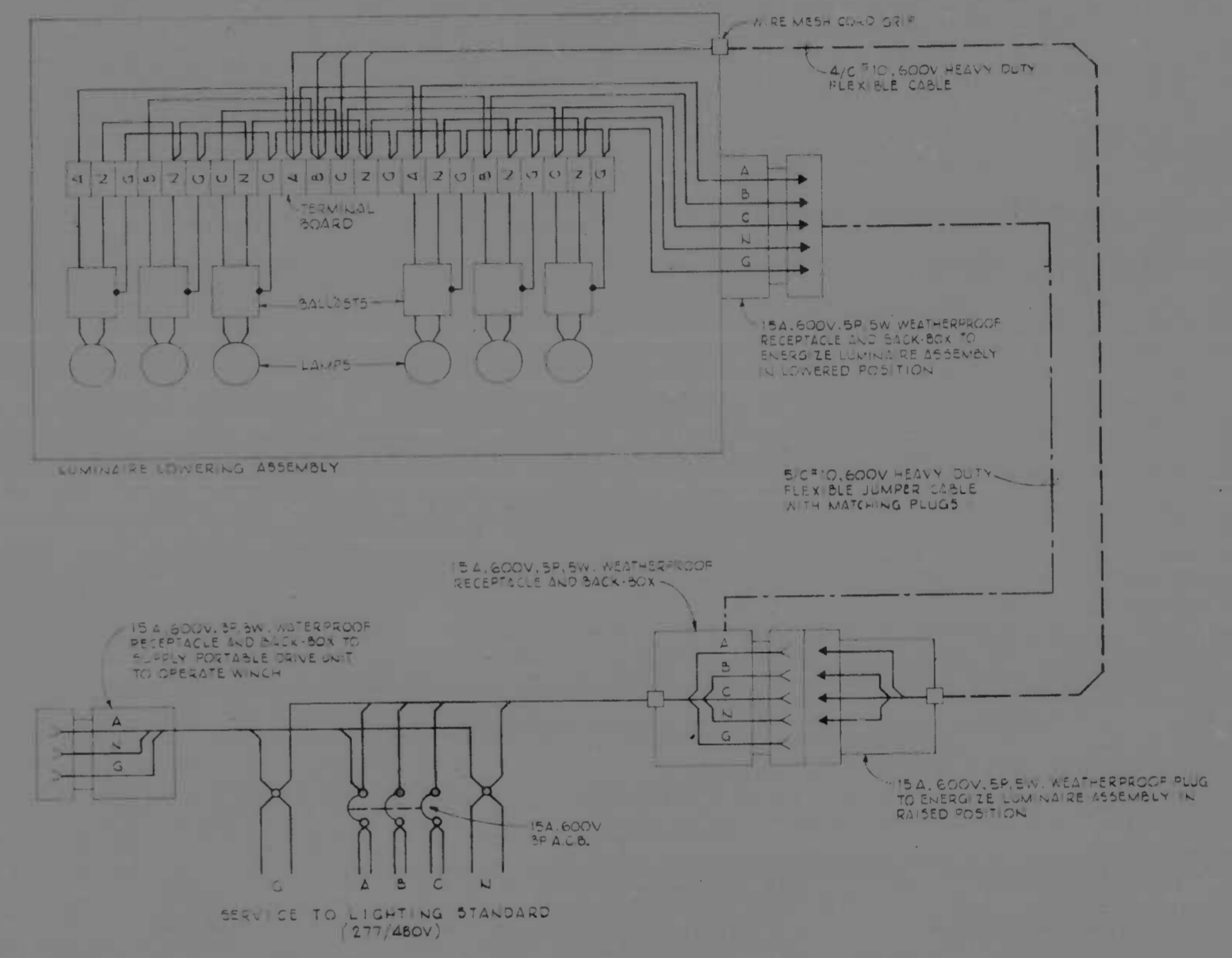
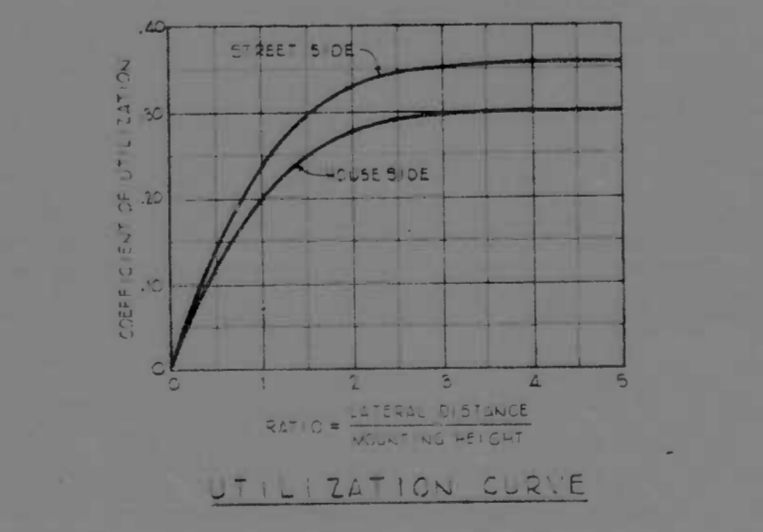
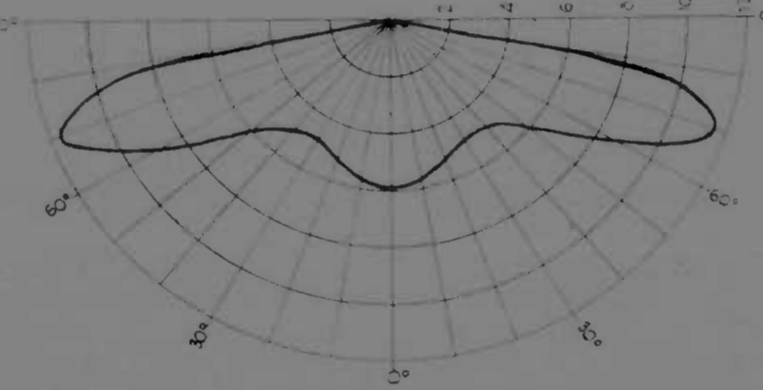
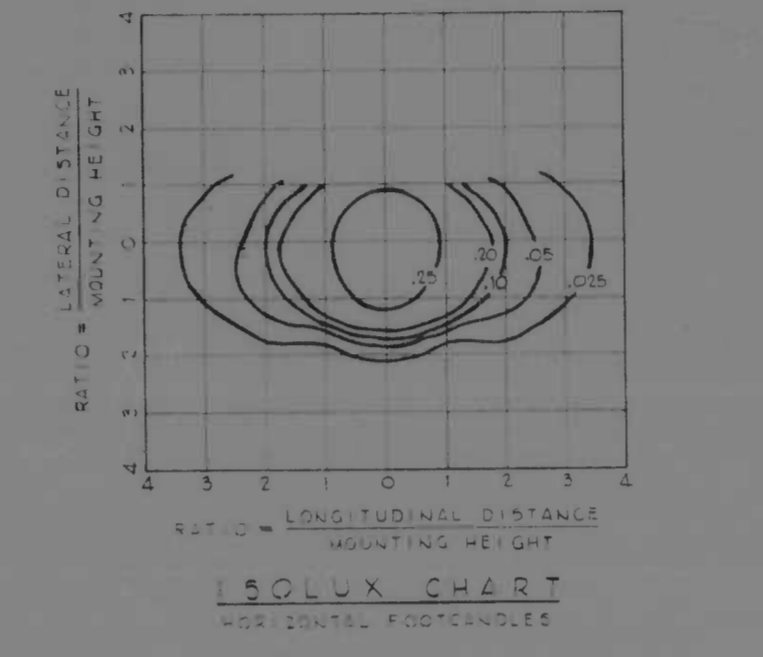


TYPICAL PHOTOMETRIC DATA
ONE 400W SODIUM VAPOR LAMP (47000 LUMENS) 100FT MOUNTING HEIGHT - INITIAL VALUES

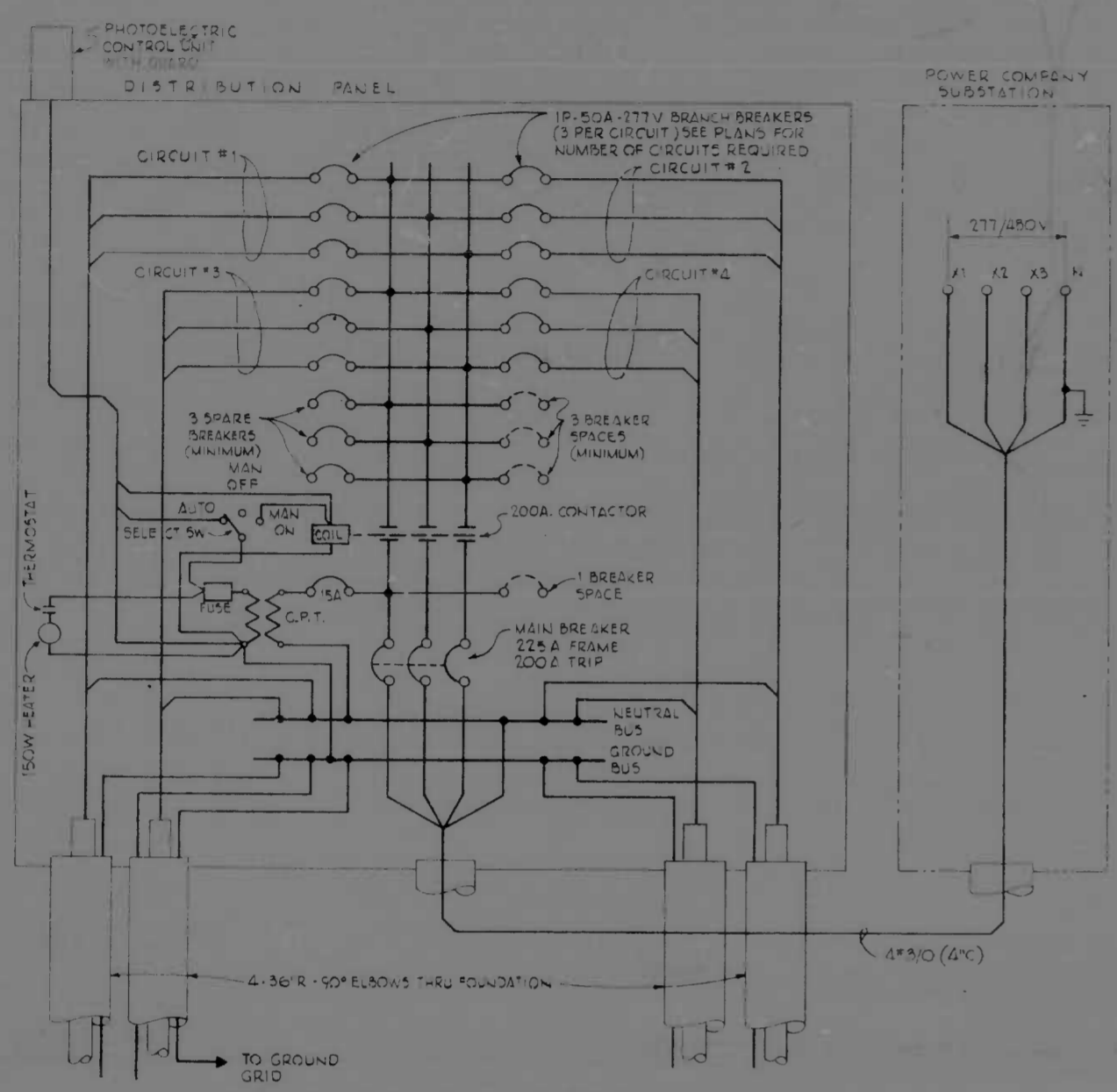
SYMMETRICAL IES TYPE V



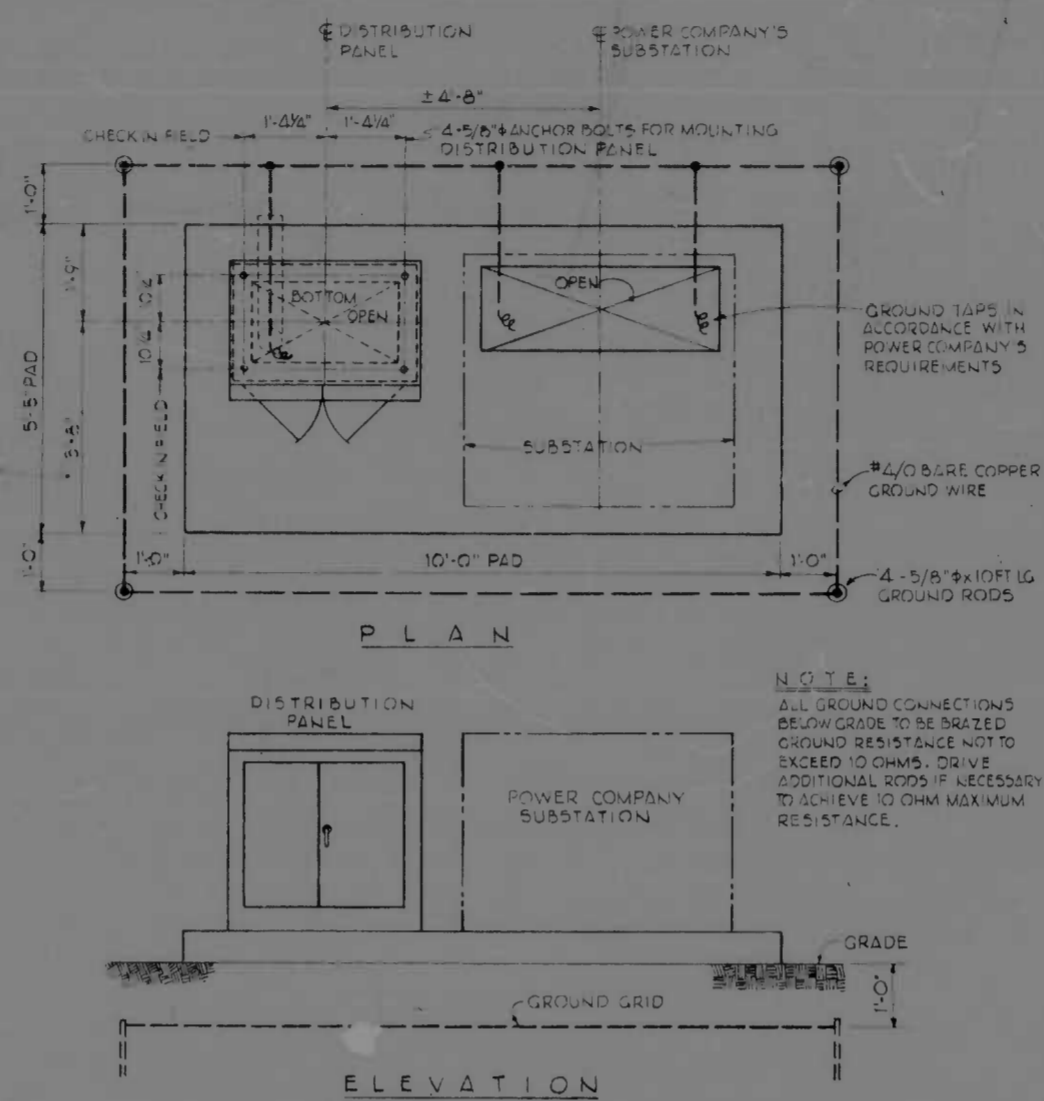
ASYMMETRICAL IES TYPE III



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KIMBERL, BENDER, STONE & ASSOC., INC. 241 N. CALVERT STREET BALTIMORE, MARYLAND 21201		SCALE: NONE	DATE: MAY 11, 1973
			DRAWN BY: J.H.L.	DES. BY: R.C.D.
			TRACED BY: _____	CHECK BY: R.C.D.
			F.A.P. NO. I-95-4(3)34	SHEET NO. (119)
			S.R.C. NO. BC 245-36-815	L6 OF L-8
			BALTO. CITY NO. 1098	

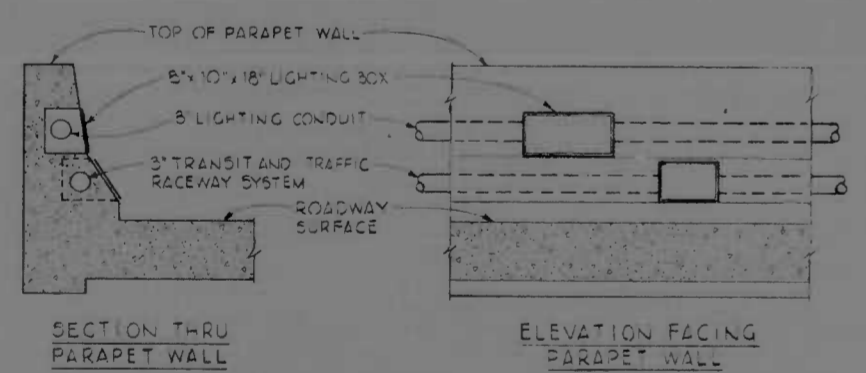


SCHEMATIC DIAGRAM

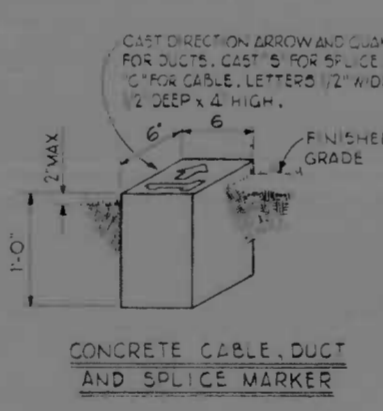


INSTALLATION DETAILS

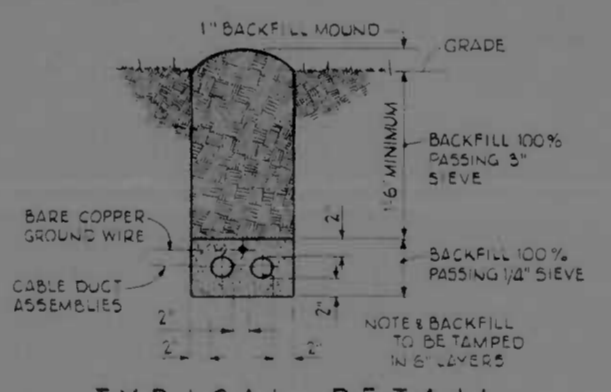
SUBSTATION DETAILS



DETAILS-CONDUIT, PULL AND JUNCTION BOXES ON BRIDGES

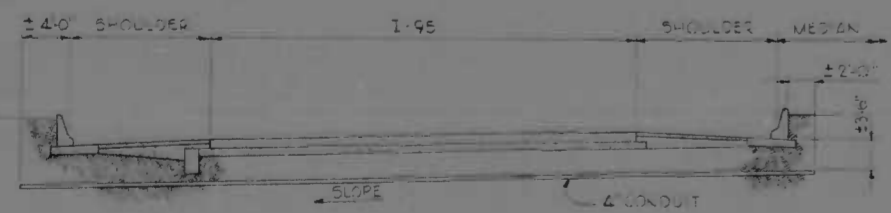


CONCRETE CABLE DUCT AND SPLICE MARKER

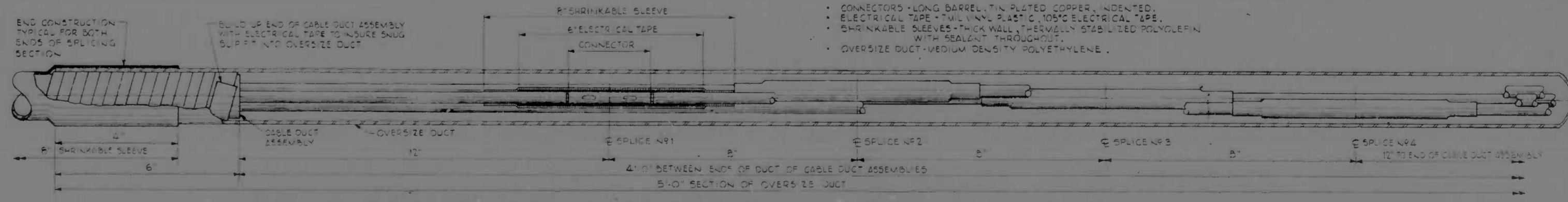


TYPICAL DETAIL CABLE DUCT ASSEMBLY AND GROUND CONDUCTOR INSTALLATION

- SPLICE COMPONENTS**
- CONNECTORS - LONG BARREL, TIN PLATED COPPER, INDENTED.
 - ELECTRICAL TAPE - THIN VINYL PLASTIC, 105°C ELECTRICAL TAPE.
 - SHRINKABLE SLEEVES - THICK WALL, THERMALLY STABILIZED POLYOLEFIN WITH SEALANT THROUGHOUT.
 - OVERSIZE DUCT - MEDIUM DENSITY POLYETHYLENE.



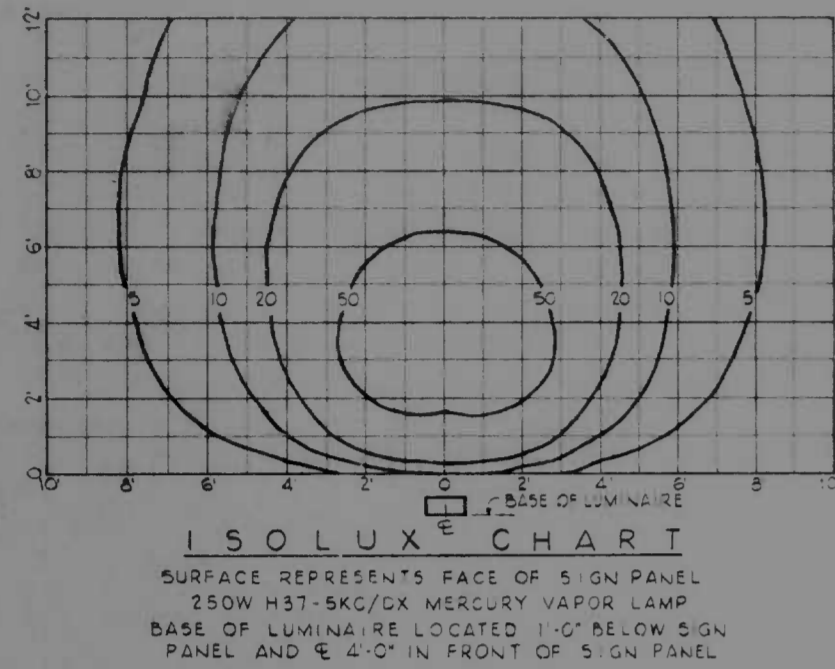
TYPICAL CONDUIT CROSSING UNDER I-95 CROSSINGS UNDER RAMPS AND STREETS SIMILAR



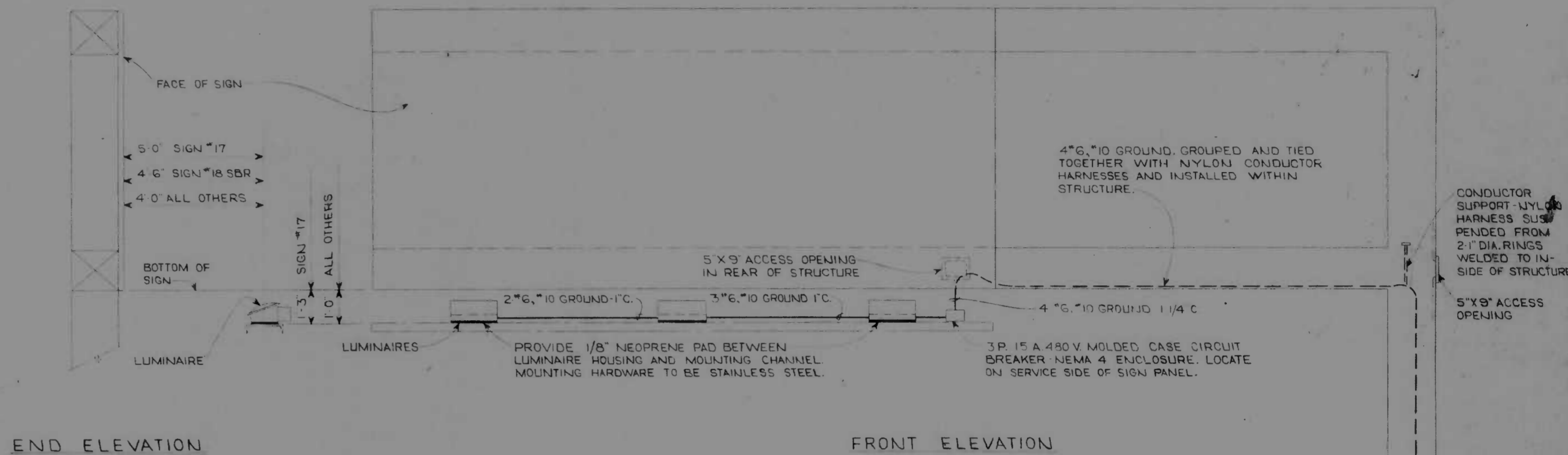
CABLE DUCT UNDERGROUND SPLICE DETAIL

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ANDERLE, BENDER, STONE & ASSOC., INC. MATZ, GILLES & ASSOC., INC. CONSULTING ENGINEERS 841 1/2 CALVERT STREET BALTIMORE, MARYLAND	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY J.H.L. DES. BY R.C.D. TRACED BY CHK. BY R.C.D. F.A.P. NO. I-95-4(3)34 S.R.C. NO. BC 246-36-815
		SCALE: NONE	DATE: MAY 11, 1973 BALTO. CITY NO. 1998 SHEET NO. (119) L7 of L-8

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	L8	(119) L-8



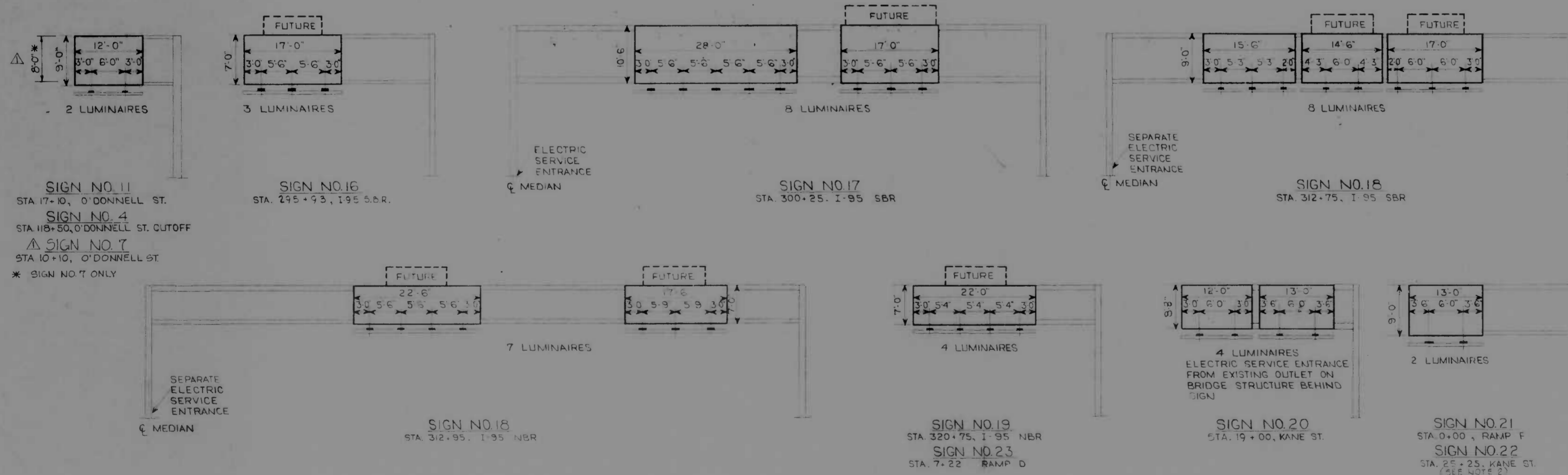
TYPICAL PHOTOMETRIC DATA



TYPICAL SIGN LIGHTING INSTALLATION
 SCALE: NONE

NOTE: PROVIDE 277 V SINGLE PHASE SERVICE AND SINGLE POLE BREAKER AT SIGNS # 4, # 11, # 21, AND # 22

TERMINATE ALL CONDUCTORS WITH 3 FEET OF LENGTH BELOW ACCESS OPENING. COIL IN BASE OF STRUCTURE.



- NOTE 91**
- LIGHTING FOR SIGNS AT THE FOLLOWING LOCATIONS IS NOT PART OF THIS CONTRACT:
 STA 17+45, RAMP D (EASTERN AVENUE)
 3+50, EASTERN AVENUE
 12+90, EASTERN AVENUE
 SUPPLY AND BASE CONNECTIONS ARE PART OF THIS CONTRACT.
 - LIGHTING FOR SIGN # 22 AT STATION 26+25 KANE STREET IS PART OF THIS CONTRACT. SUPPLY AND BASE CONNECTIONS ARE NOT PART OF THIS CONTRACT.
 - BALLASTS FOR SIGN LUMINAIRES FOR SIGN # 21 TO BE 120VOLT. ALL OTHERS TO BE 277VOLT.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
REVISED SIGN NO. 7 7-15-93			
SCALE: NONE		DATE: MAY 11, 1973	DRAWN BY: J.H.L. TRACED BY: --- F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246.36-815 BALTO. CITY NO. 1998
			DES. BY: R.C.D. CHK. BY: R.C.D. SHEET NO. (119) L8 OF L8

CROSS REFERENCE TO DRAWINGS

DRAWING	SHEET NO.
TYPICAL SECTIONS	
O'DONNELL ST	T-7
O'DONNELL ST CUT OFF	P-2
BOSTON ST	T-7
RAMP 'L'	T-6
RAMP 'L' FREE RIGHT TURN	T-6
RAMP 'K'	T-6
CHANNEL	P-13
PROFILES	
RAMP 'K'	P-9
RAMP 'L'	P-9
RAMP 'L' FREE RIGHT TURN	P-10
BOSTON ST	P-11
O'DONNELL ST	P-11
CHANNEL	P-13
STORM DRAINS	P-14-P-16
GRADING & JOINT LAYOUT	P-17
STRUCTURAL DRAWINGS	S-9
BOX CULVERT EXTENSION	S-10-S-11
BOX CULVERT - O'DONNELL ST & BOSTON ST	S-10-S-11
UTILITY RELOCATIONS	
UTILITY PLANS	U-1-U-3
UTILITY PLANS	U-4-U-6
SIGNING	
100' SCALE PLANS	S1-1-S1-5
MISC DETAILS	S1-6-S1-15
LIGHTING	
100' SCALE PLANS	L-1-L-3
MISC DETAILS	L-4-L-6

- RECONSTRUCTED BITUMINOUS CONCRETE PAVEMENT
- 3" CONVENTIONAL REINFORCED CONCRETE
- BITUMINOUS PAVEMENT (TEMP CONN & O'DONNELL ST CUT-OFF LT TURN STORAGE)
- BITUMINOUS PAVEMENT (BASE WIDENING)
- REINF CONC BASE WITH 2" BIT CONC OVERLAY
- BUILDING REMOVAL

O'DONNELL ST STA 15+30
REMOVE EXISTING BRICK/CONC DRAINAGE STRUCTURE

B.M. BALTO CITY #7760-BRASS SCREW IN SE END OF CONC CULVERT HEADWALL N. SIDE OF O'DONNELL ST CUT OFF. EL 30.364

RAMP 'L' & RAMP 'L' FREE RT TURN STA 26+88.71 TO STA 27+13.91 26 RT TRANSITION FROM STD TYPE 'A' COMB C&G TO BARRIER CURB

STA 6+50 TO STA 7+25 LT - RAMP 'K' CONSTRUCT SOLDIER PILE TIMBER LAGGING WALL

STA 1+23.5 RAMP 'L' FREE RIGHT TURN TO STA 14+23.83 O'DONNELL ST CONSTRUCT TEMPORARY TIE IN

STA 76+ RAMP 'L' TO STA 1+23.5 RAMP 'L' FREE RIGHT TURN 18' LF CONCRETE 'X' DITCH, D=1'0"

O'DONNELL ST CUT OFF
STA 114+24 - 34' LT
STA 116+23 - 34' LT
STA 118+26 - 34' LT
EXISTING INLETS TO BE ADJUSTED AS FOLLOWS:
(1) REMOVE & SALVAGE FRAMES & GRATES
(2) ADJUST TO RECEIVE PROPOSED PIPES AS SHOWN ON PROFILE. SEE SHEET OF
(3) CAP INLETS AS DETAILED SEE SHEET OF
COST OF (1) & (2) ABOVE TO BE INCLUDED IN BID PRICE FOR NEW PIPE & INLETS. COST OF (3) TO BE PAID FOR UNDER THE ITEM CLASS P-1 CONCRETE FOR MISC STRUCTURES.

O'DONNELL ST
STA 9+10 TO STA 14+23
CONSTRUCT WIDENING AND SIDEWALK ADJACENT TO CURB ON RT
STA 14+25 TO STA 17+21.62
RECONSTRUCT ENTIRE ROADWAY
STA 16+20.13 TO STA 17+27.22
CONSTRUCT CONC PAVED MEDIAN ISLAND
STA 16+10 TO 17+10 LT
CONSTRUCT SIDEWALK ADJ TO CURB
STA 15+10 TO 16+10 LT
CONSTRUCT SIDEWALK IN ISLAND

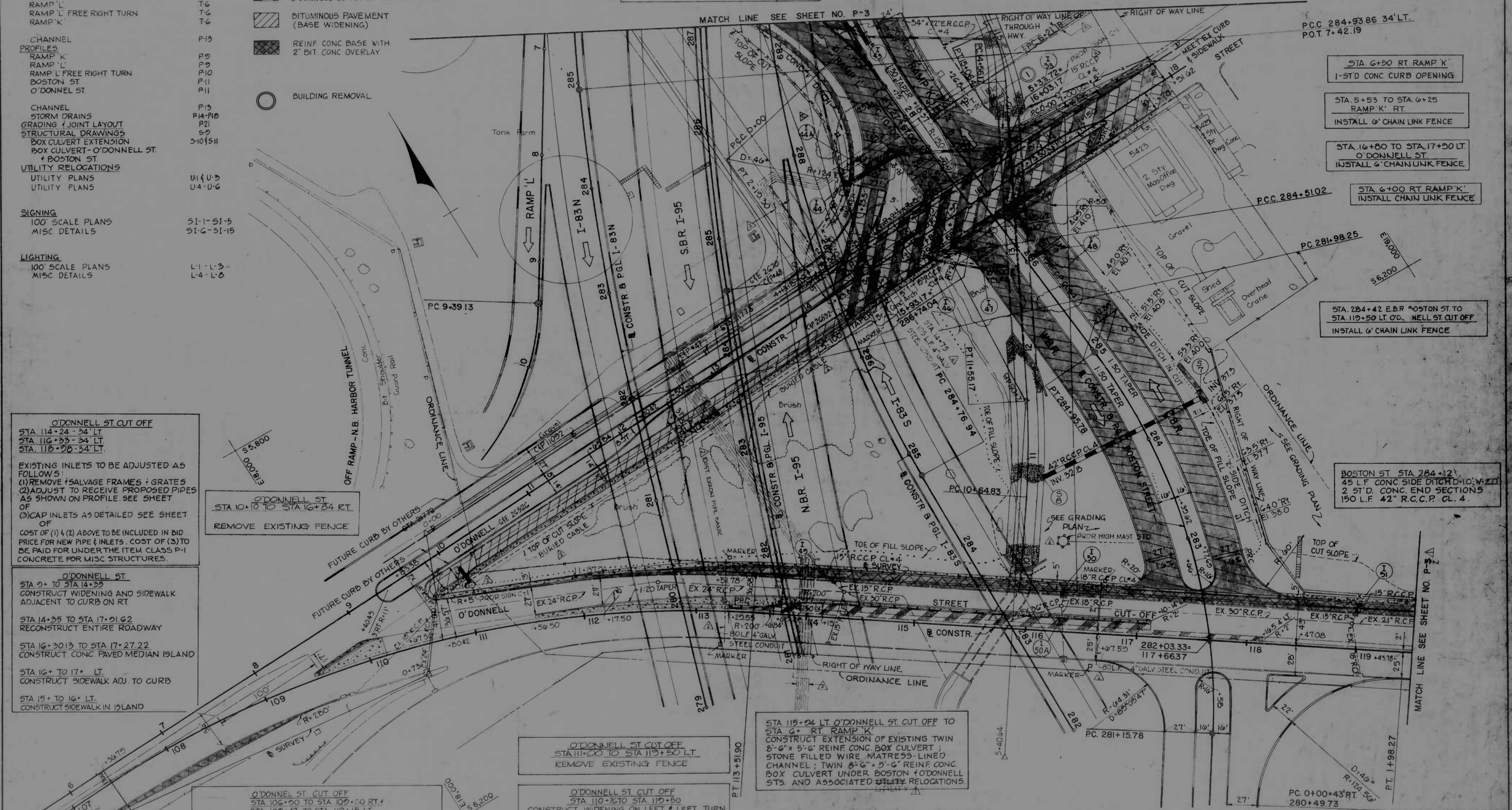
O'DONNELL ST STA 10+10 TO STA 16+84 RT
REMOVE EXISTING FENCE

O'DONNELL ST CUT OFF STA 111+00 TO STA 119+50 LT
REMOVE EXISTING FENCE

O'DONNELL ST CUT OFF STA 110+20 TO STA 110+50
CONSTRUCT WIDENING ON LEFT & LEFT TURN STORAGE LANES - CONSTRUCT SIDEWALK ADJACENT TO CURB ON LEFT.

STA 115+24 LT O'DONNELL ST CUT OFF TO STA 6+ RT RAMP 'K'
CONSTRUCT EXTENSION OF EXISTING TWIN 8'-6" x 5'-6" REINF CONC BOX CULVERT, STONE FILLED WIRE MATTRESS-LINED CHANNEL, TWIN 8'-6" x 5'-6" REINF CONC BOX CULVERT UNDER BOSTON ST O'DONNELL STS. AND ASSOCIATED UTILITY RELOCATIONS.

O'DONNELL ST CUT OFF STA 106+20 TO STA 109+20 RT, STA 109+47 TO STA 110+15 LT
CONSTRUCT PAVEMENT WIDENINGS AS INDICATED & AS SHOWN ON TYPICAL SECTION SHEET T- IN MEDIAN AREA. REMOVE MIN AMOUNT OF EXISTING MEDIAN PAVEMENT TO NEAREST NEAREST JOINTS, REPLACE WITH 5" CONCRETE PAVING



STA 6+50 RT RAMP 'K' 1-STD CONC CURB OPENING

STA 5+53 TO STA 6+25 RAMP 'K' RT INSTALL 6' CHAIN LINK FENCE

STA 16+80 TO STA 17+20 LT O'DONNELL ST INSTALL 6' CHAIN LINK FENCE

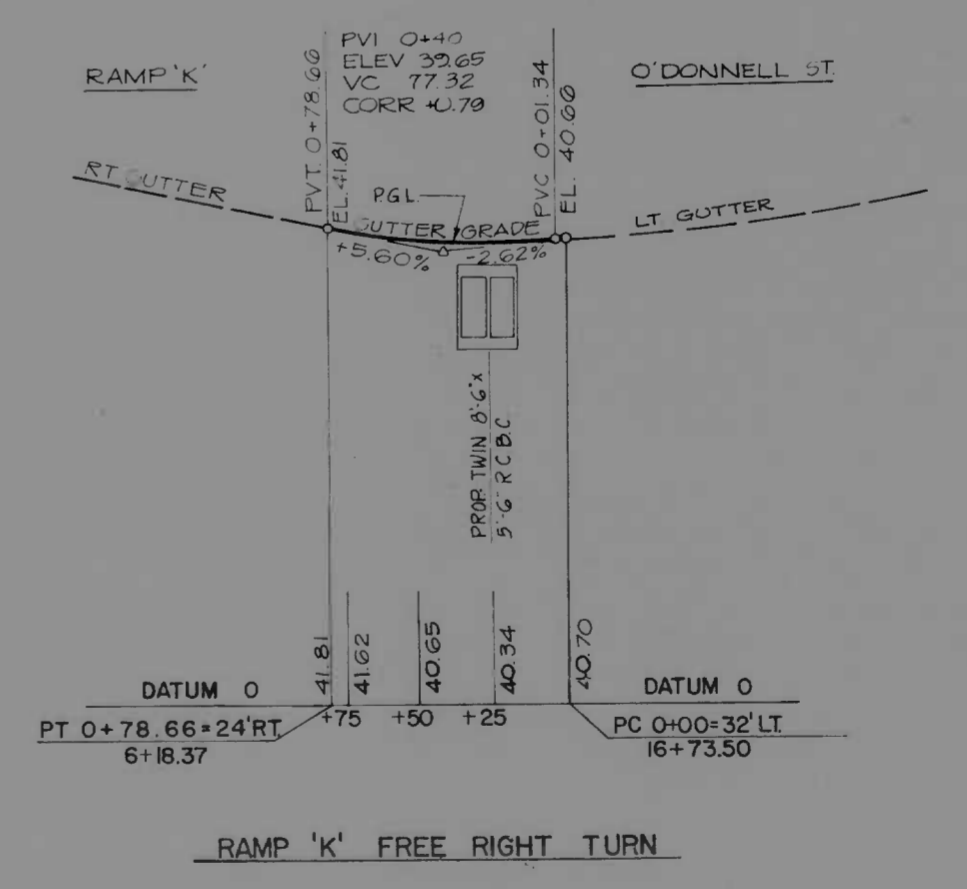
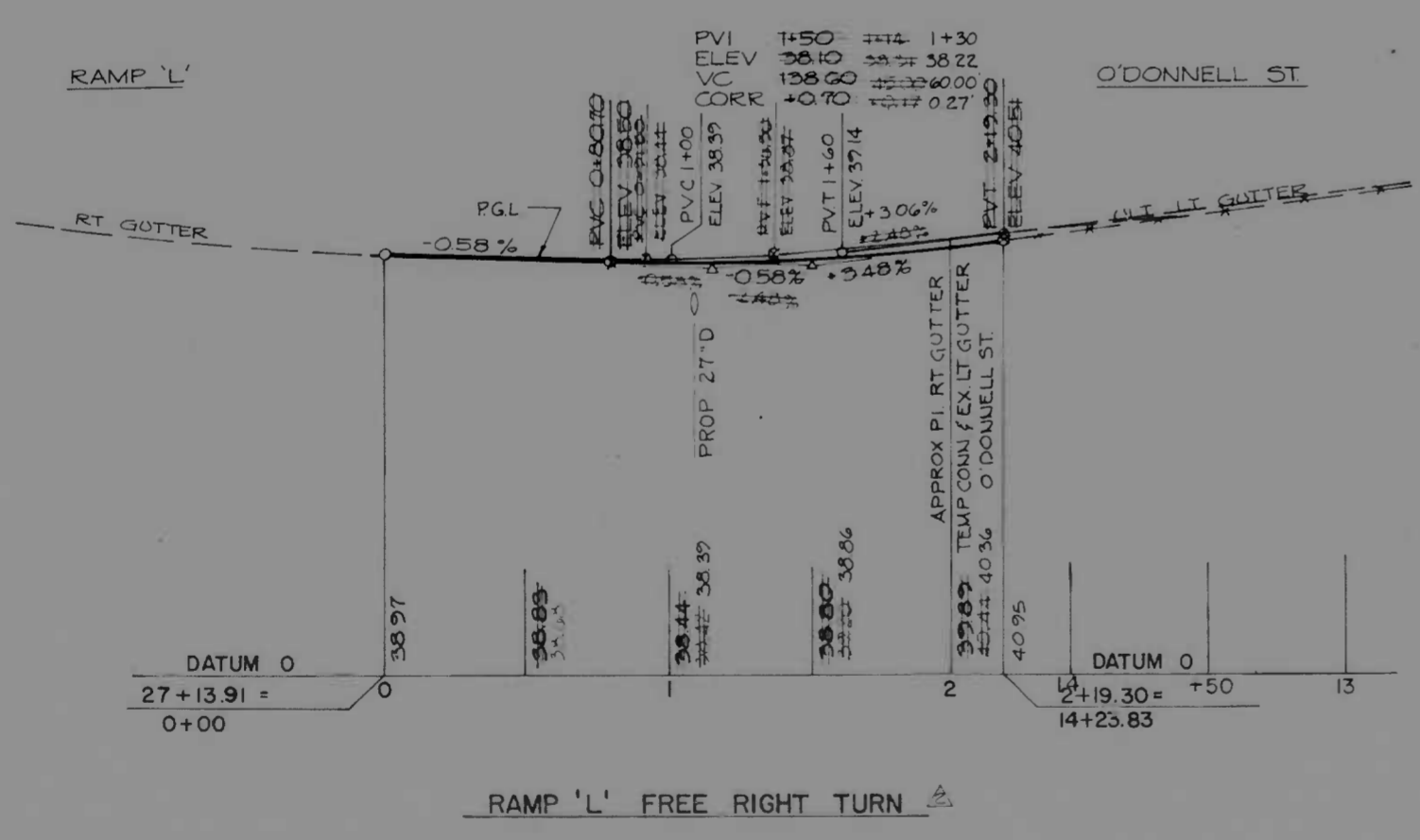
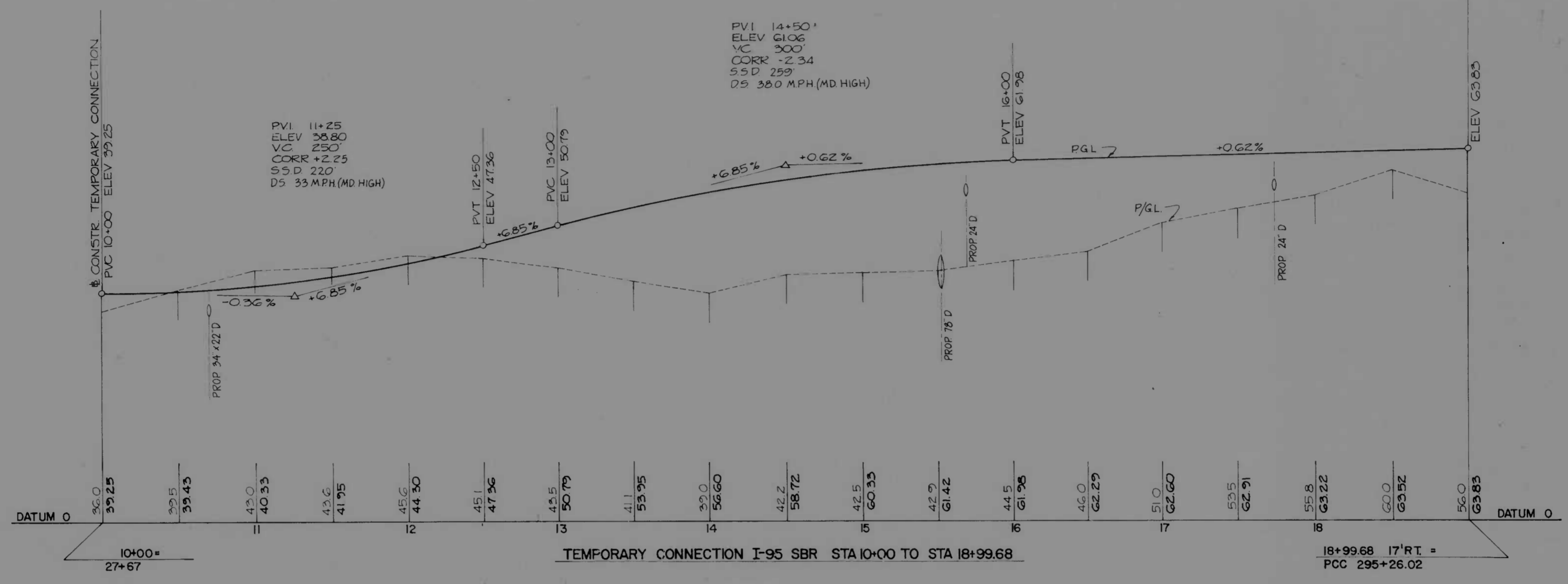
STA 6+00 RT RAMP 'K' INSTALL CHAIN LINK FENCE

STA 284+42 E.B.R BOSTON ST TO STA 119+50 LT O'DONNELL ST CUT OFF INSTALL 6' CHAIN LINK FENCE

BOSTON ST STA 284+12 45' LF CONC SIDE DITCH 10' W-22 2 STD CONC END SECTIONS 150 LF 42" R.C.C.P. CL. 4

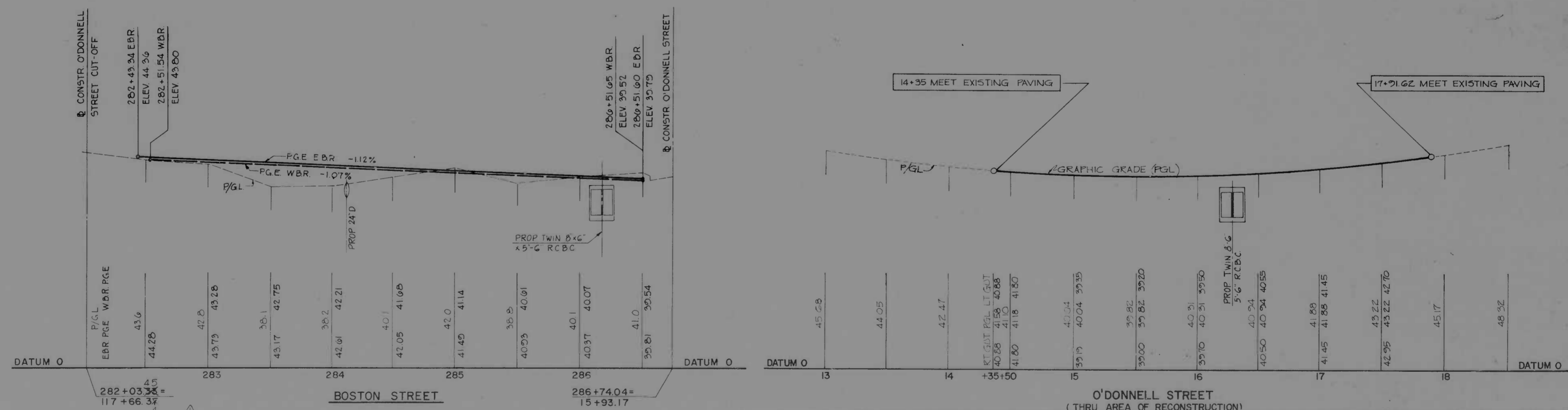
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
<ul style="list-style-type: none"> △ CORRECTED SPELLING △ CORRECTED SHEET REF 3-15-74 △ REVISIONS TO RAMP 'L' & RAMP 'L' FREE RT TURN TO ACCOMMODATE BARRIER CURB EXIST EYEGH ROSE BANK ADDED TO PLANS. ADDED BUREAU LABEL, CONDUIT AND SIGN PAGE. 7-15-74 	KNOX, BENDER, STONE & ASSOC., INC. AND WATZ, COLLIS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET SCALE: 1" = 40' DATE: MAY 11, 1973	DRAWN BY: J.W.S. TRACED BY: J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
		DES. BY: T.E.L. CHK. BY: J.L.C.	SHEET NO. (119) P-1 OF P-24

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-10	(119) P-24



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
<ul style="list-style-type: none"> REVISD GRADE RAMP 'L' FROM RT TURN 3-15-74 REVISD GRADE RAMP 'L' FREE RT TURN TO ACCOMMODATE BARRIER CURB 7-5-74 	WILCOX, BENTON, STONE & ASSOCIATES INCORPORATED CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: K.M.S. TRACED BY: K.M.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC246-36-815 BALTO. CITY NO. 1998
SCALE: HORIZ. 1"=40', VERT. 1"=10' DATE: MAY 11, 1973		DES. BY: T.E.L. CHK. BY: J.L.C. SHEET NO. (119) P-10 OF P-24	

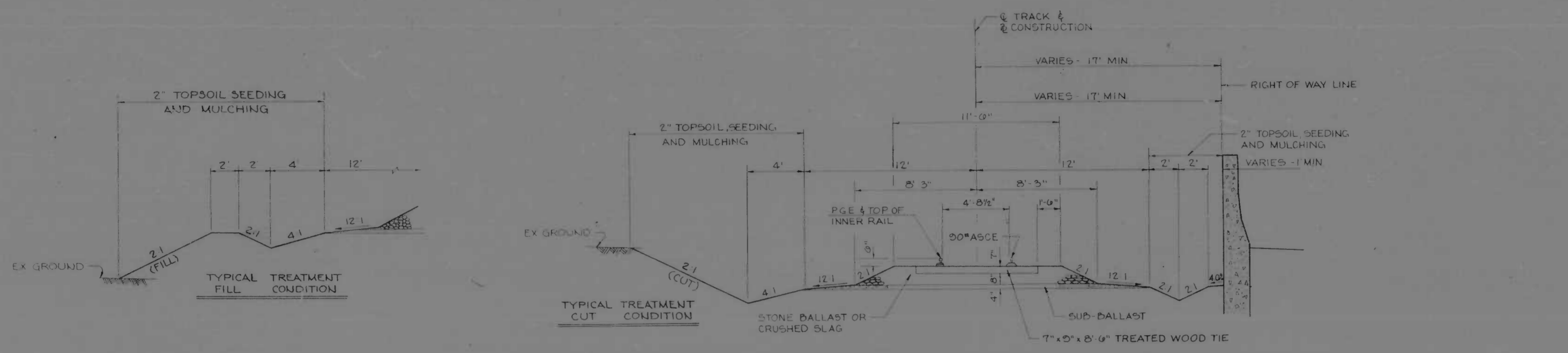
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-11	P-24



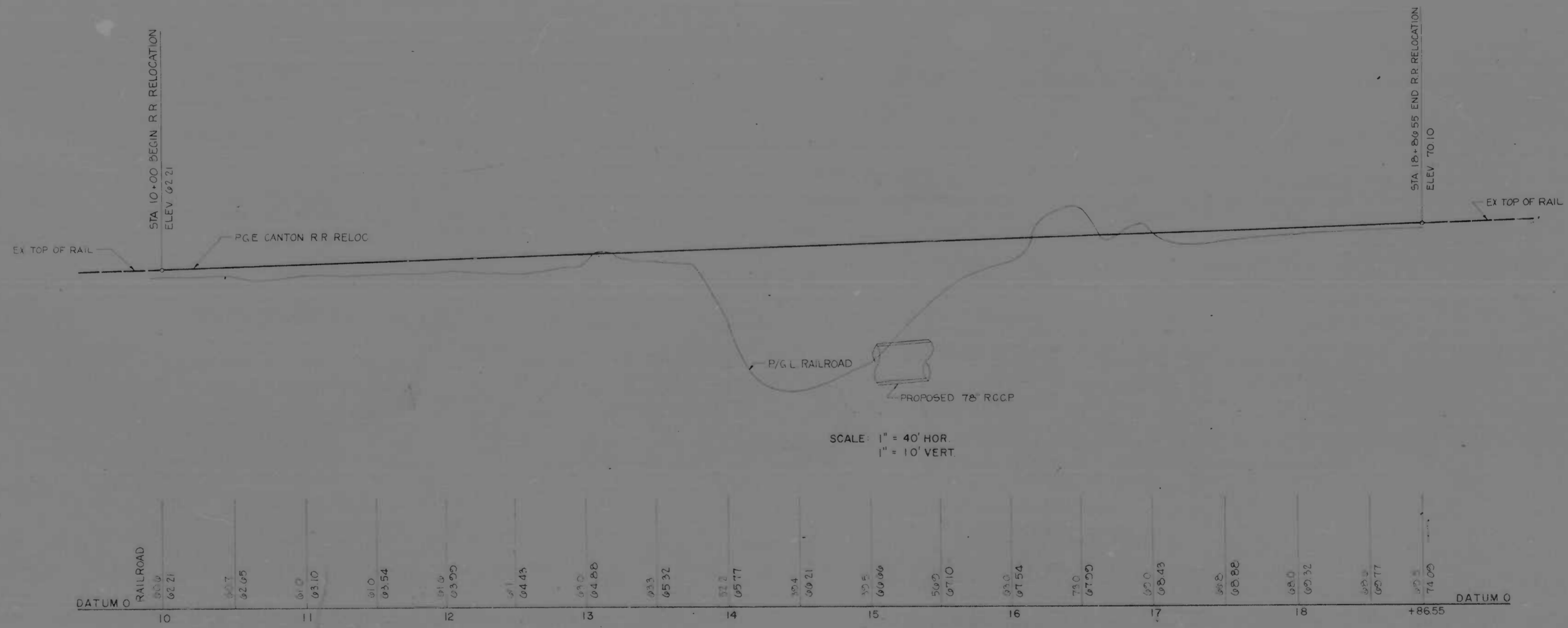
REVISIONS Δ REVISED 7-15-74	CONSULTANT WATZ, CHILDS & ASSOC., D.C. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET SCALE: HORIZ 1"=40', VERT 1"=10' DATE: MAY 11, 1973	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY: J.W.S. TRACED BY: J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
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SHEET NO. (119) P-11 of P-24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34-P-12	(119)	P-24



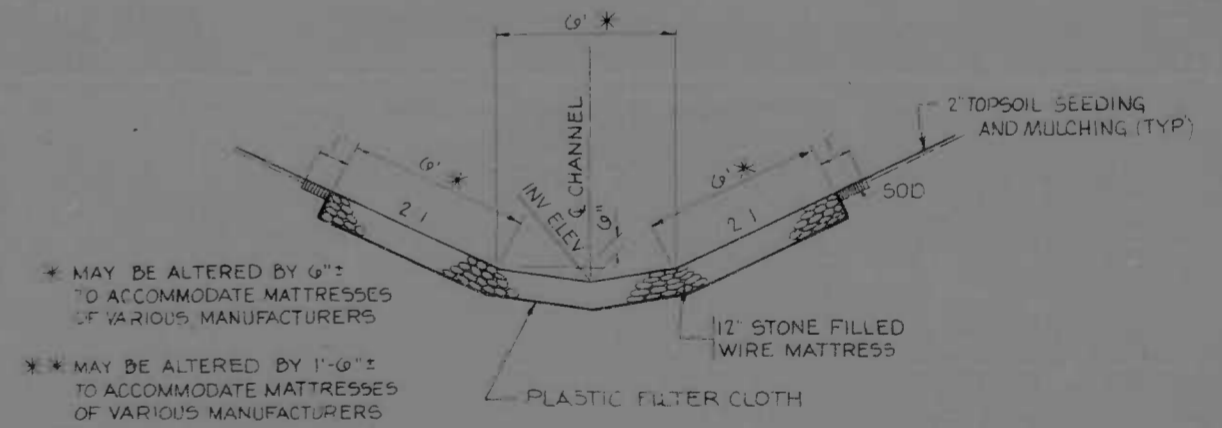
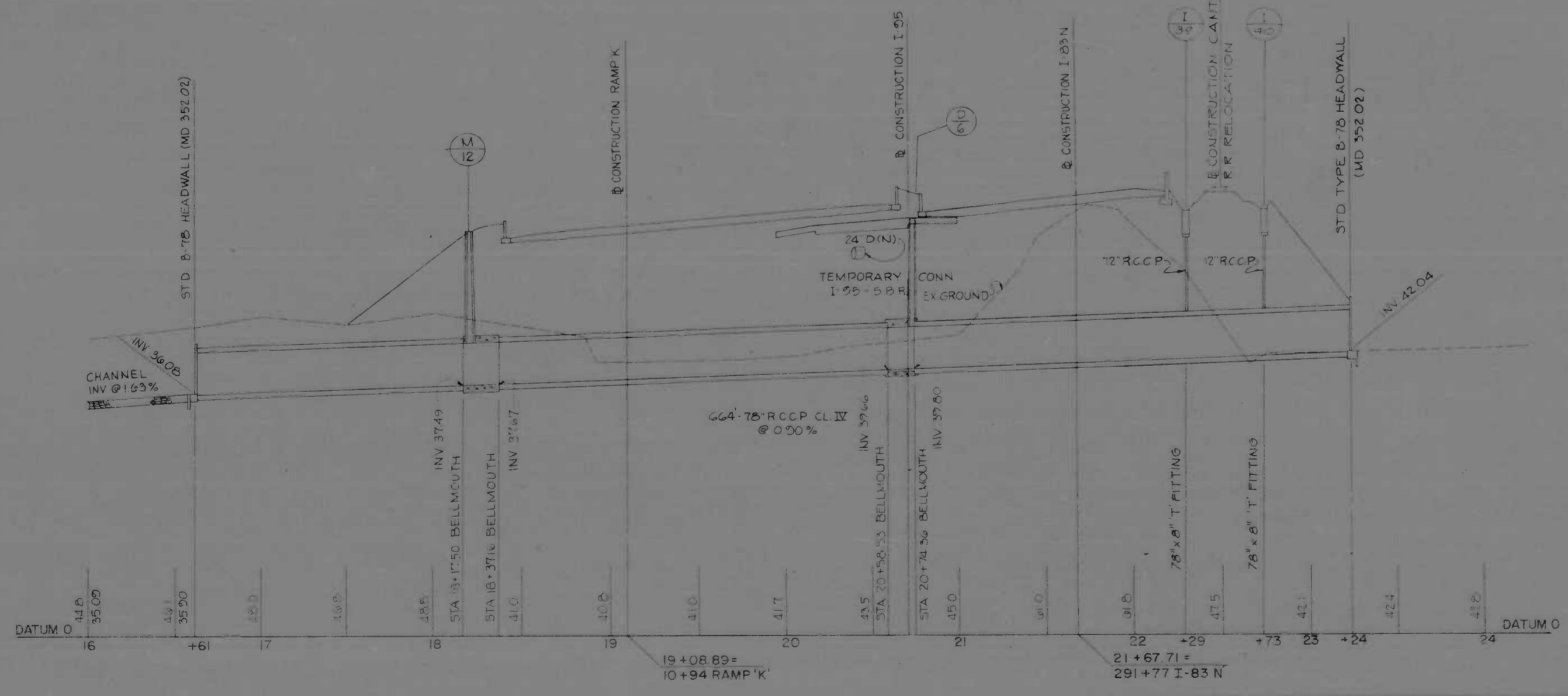
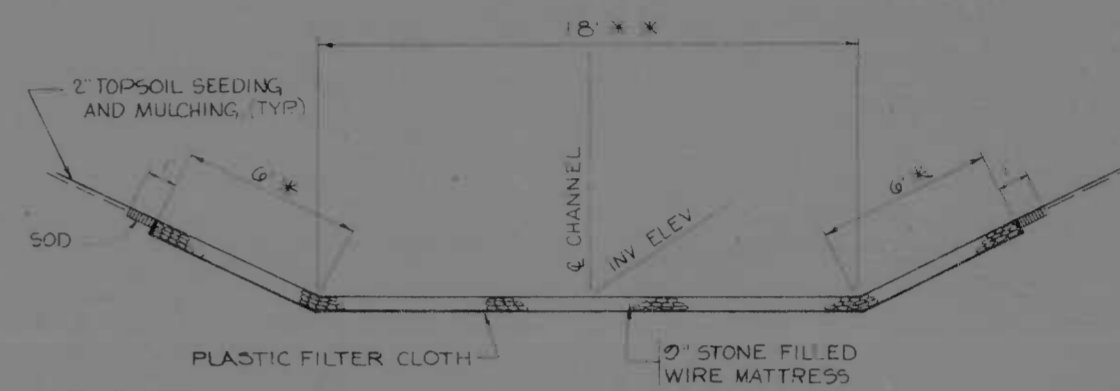
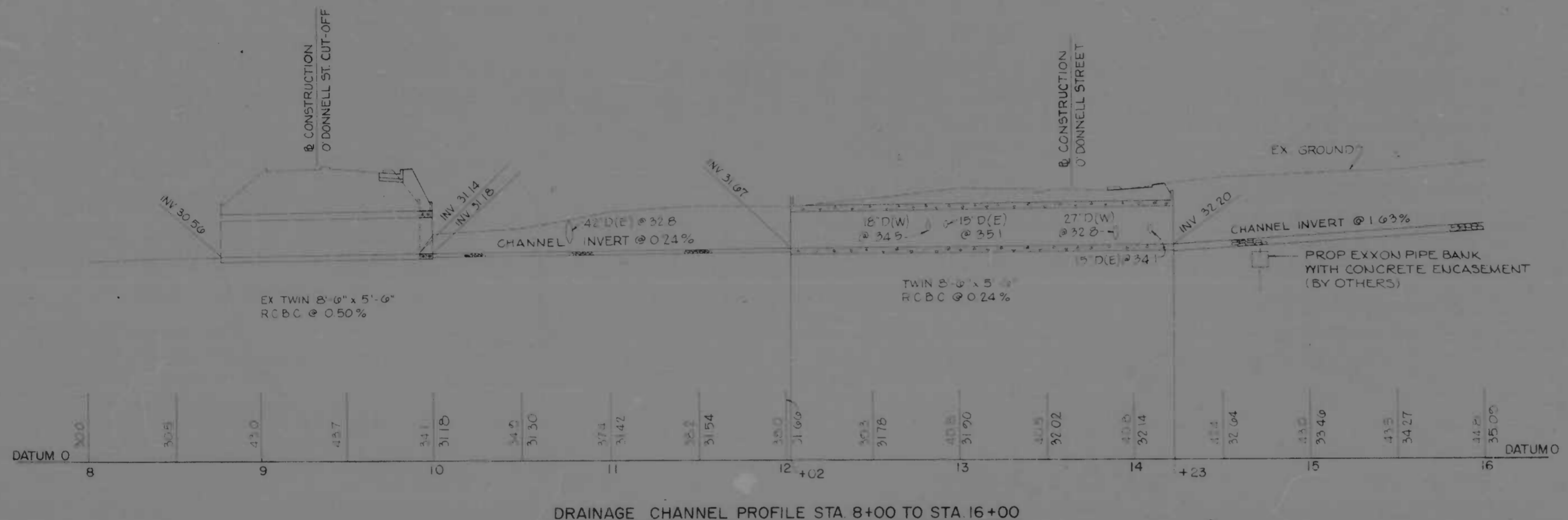
CANTON RAILROAD RELOCATION
NO SCALE



CANTON RAILROAD RELOCATION PROFILE

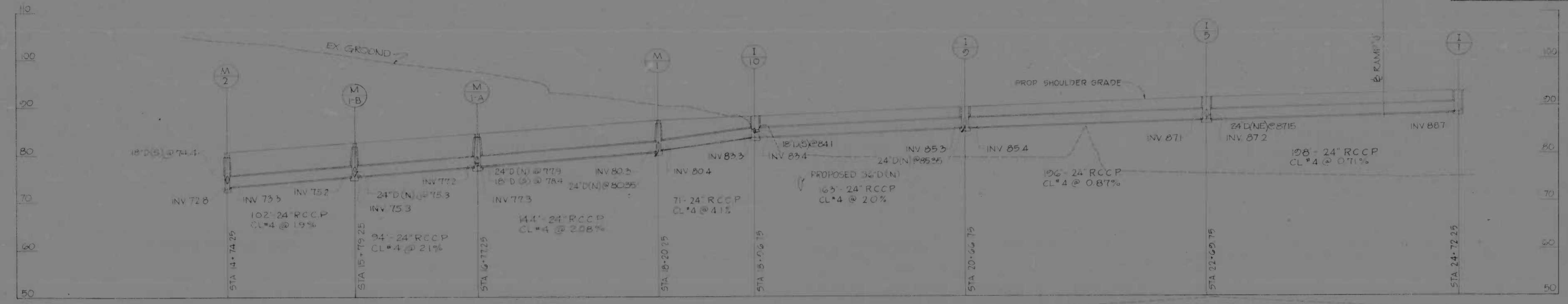
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	PAUL BENDER, CIVIL & MECHANICAL ENGINEER PAUL BENDER & ASSOCIATES, INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET		DRAWN BY J.W.S.	DES. BY T.E.L.
		SCALE: AS SHOWN		DATE: MAY 11, 1973	CHK. BY J.L.G.
					SHEET NO. (119) P-12 OF P-24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-13	(119) P.24

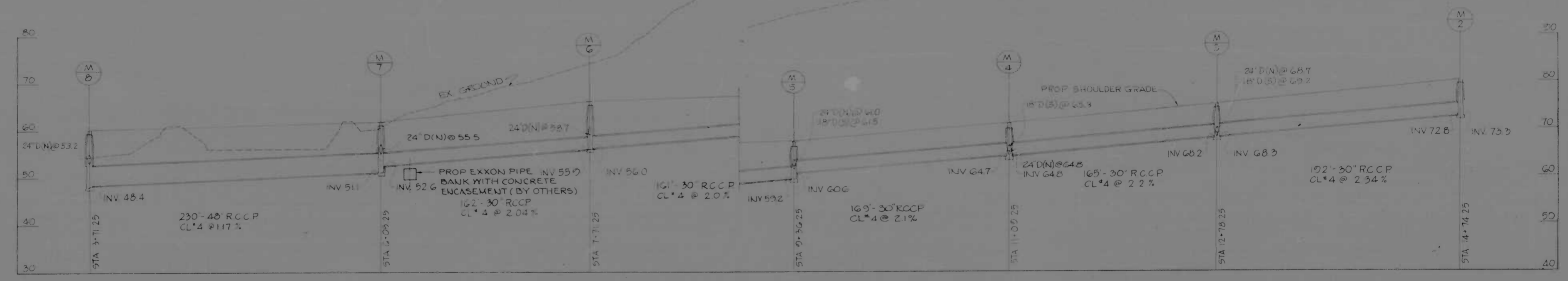


REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	MATZ CHIRIC & ASSOC., INC. 343 N. CALVERT STREET BALTIMORE, MARYLAND	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: J.W.S. TRACED BY: J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. RC 246-36-815 BALTO. CITY NO. 1998
		SCALE: HOR. 1"=40', VERT. 1"=10'	DATE: MAY 11, 1973

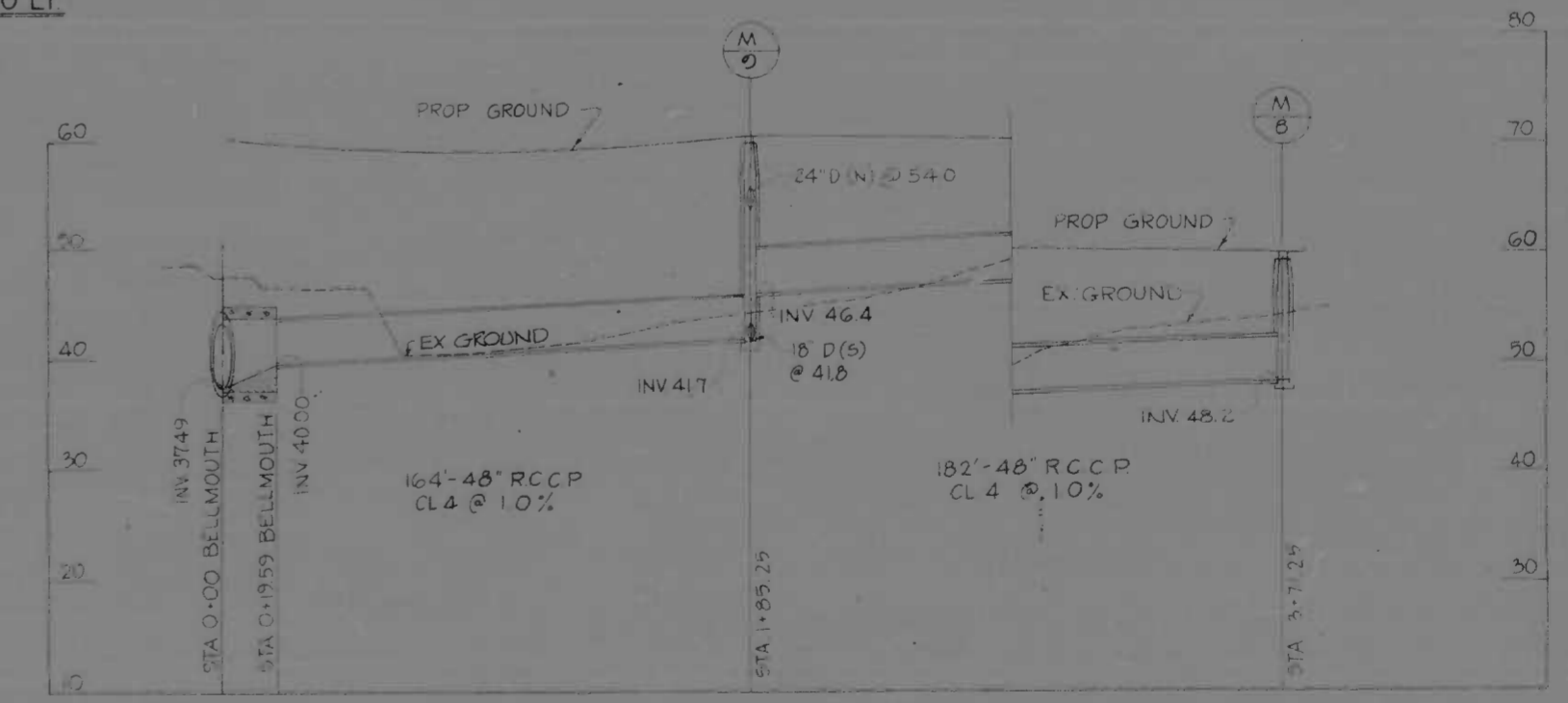
REV. NO.	DATE	BY	REASON
2	MD I-95-4(39)34	P-14	P-24



STORM DRAIN PROFILE - I-95 STA 305+50 TO STA 315+50 LT



STORM DRAIN PROFILE - I-95 STA 296+50 TO STA 305+50 LT

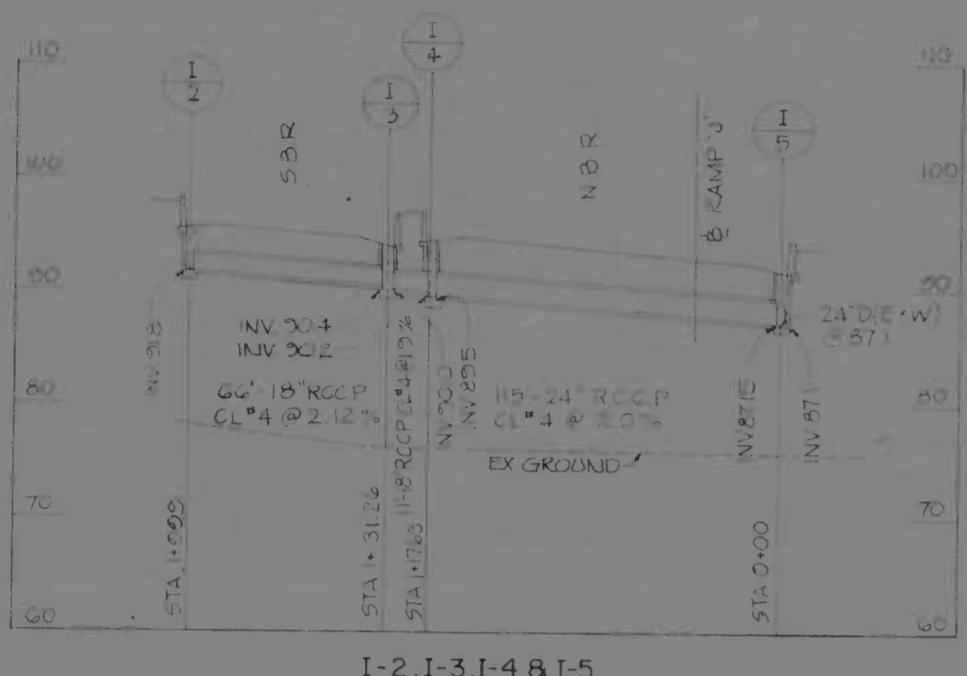


STORM DRAIN PROFILE - I-95 STA 305+50 TO NEB STA 290+00 LT

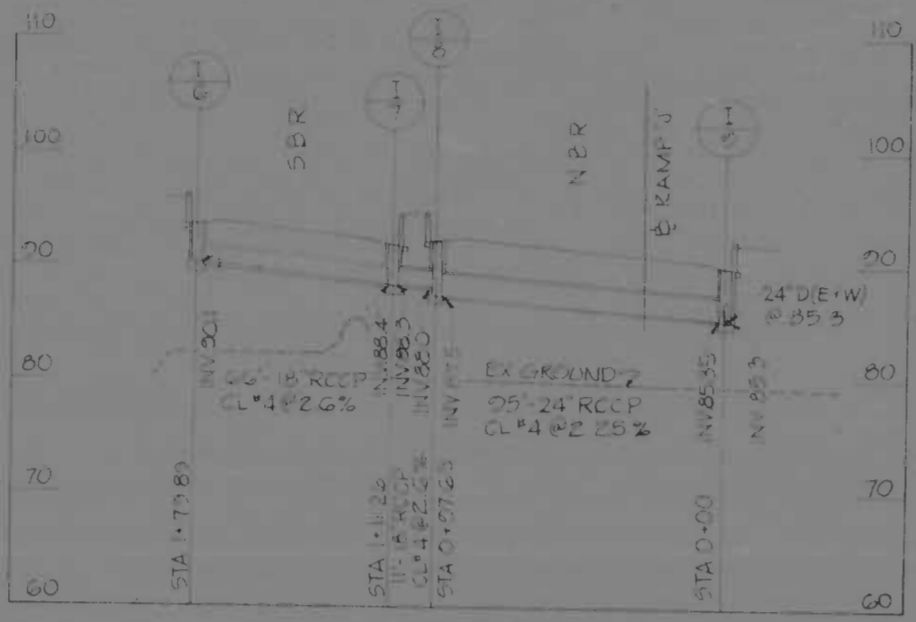
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	WILLIAMS BROS. & CO., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: K.J. TRACED BY: D.L.M. E.A.P. NO. I-95-4(39)34 S.R.C. NO. 286-36-15-5 BALTO. CITY NO. 1978
		SCALE: HORIZ. 1"=40' VERT. 1"=10'	DATE: MAY 11, 1973

SHEET NO. (119)
P-14 OF P-24

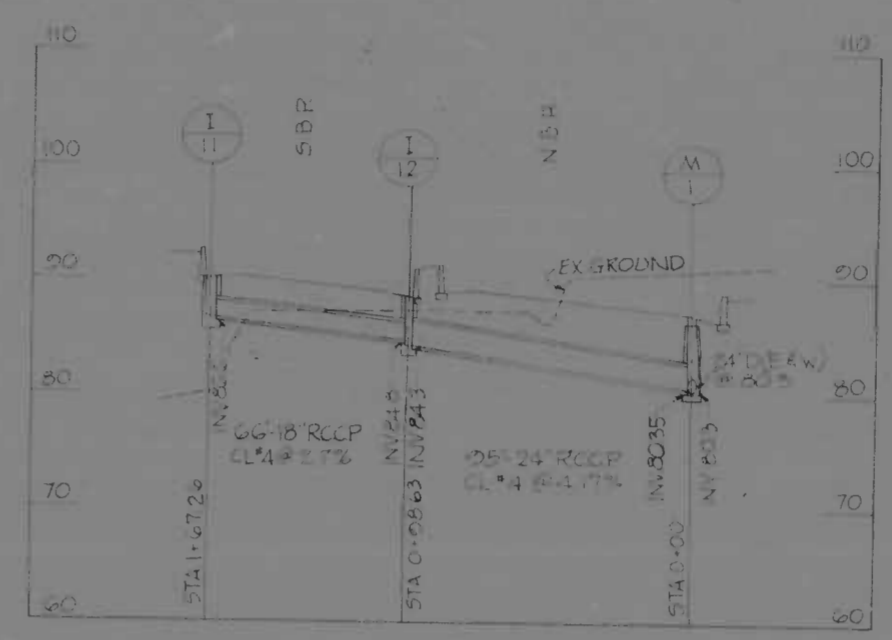
NO. ROAD	DATE	BY	CHECKED	SHEET NO.	TOTAL SHEETS
2	MD	I-95-439/34	P-15	(119)	124



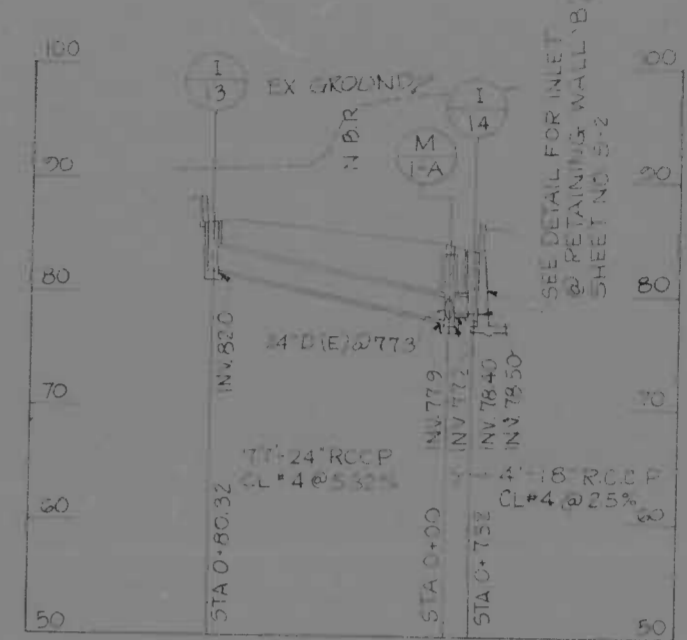
I-2, I-3, I-4 & I-5



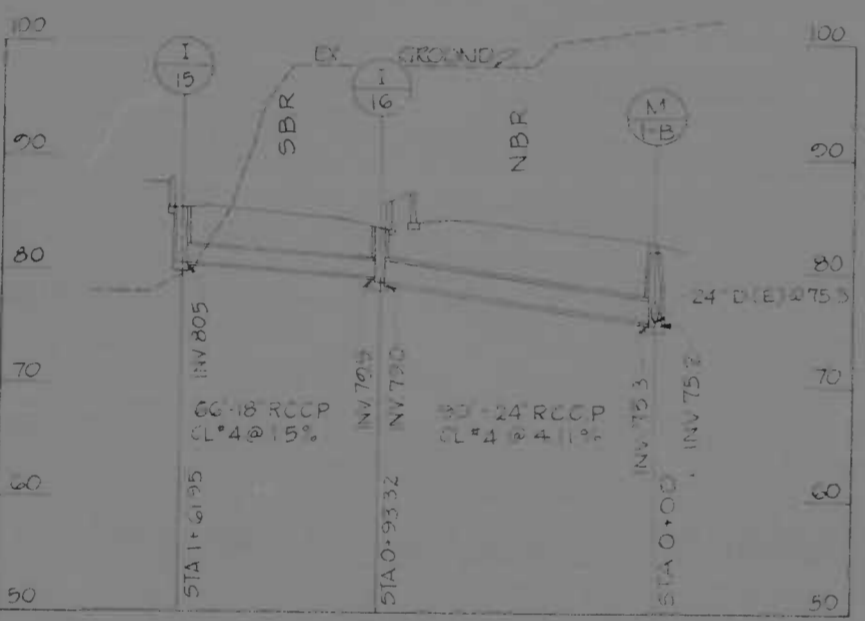
I-6, I-7, I-8 & I-9



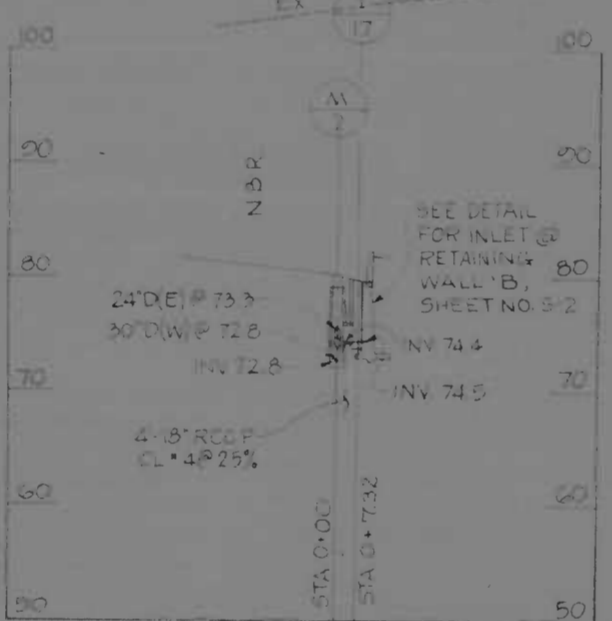
I-11, I-12 & M-1



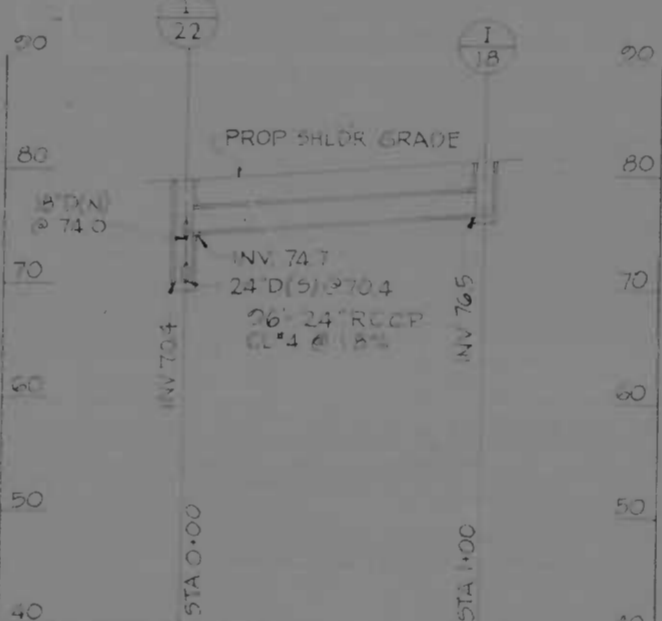
I-13 & I-14



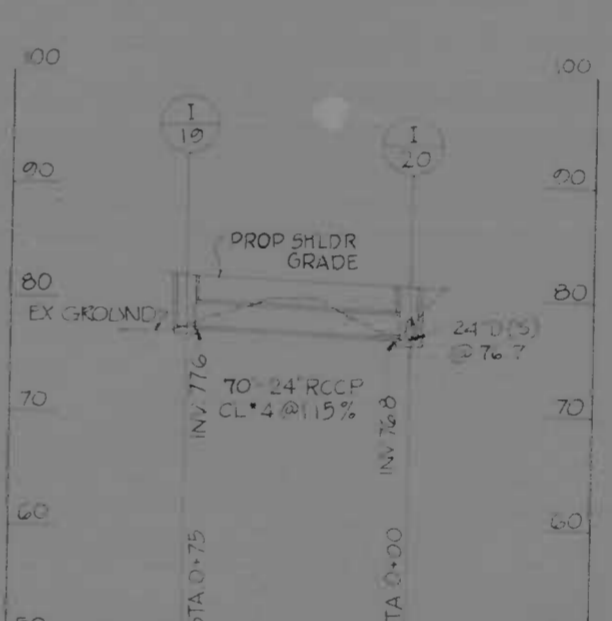
I-15 & I-16



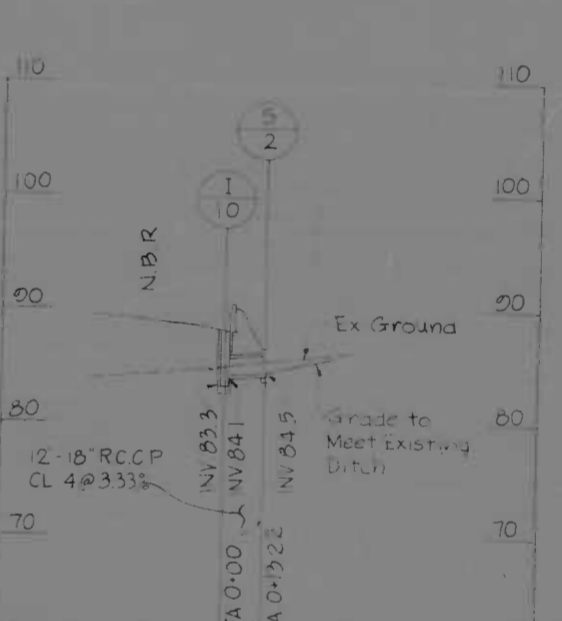
M-2 & I-17



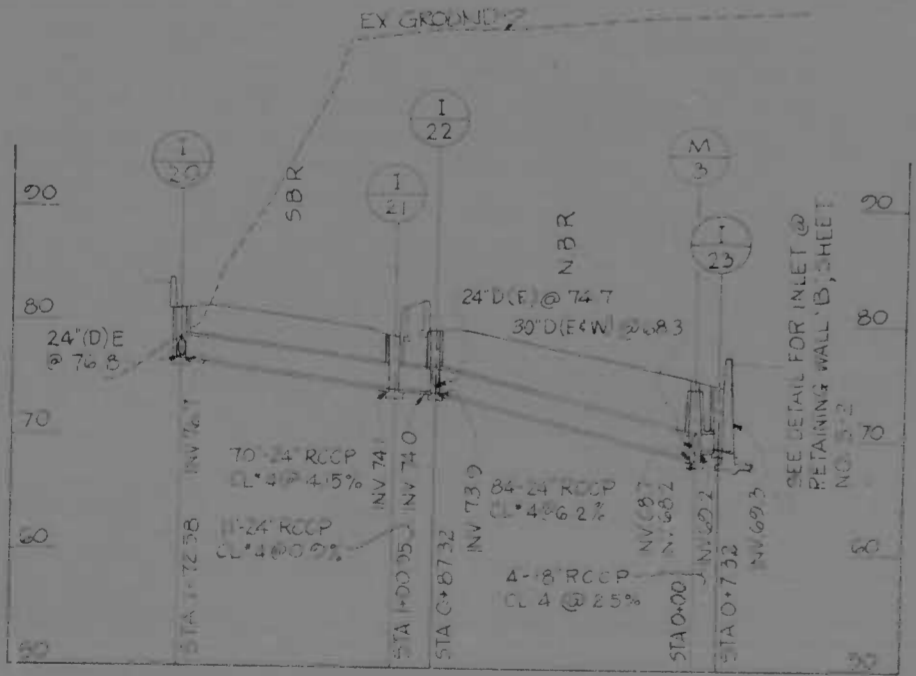
I-22 & I-18



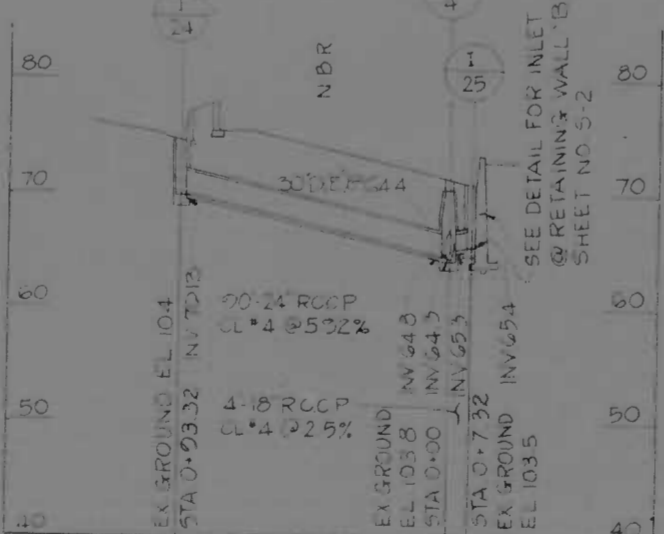
I-19 & I-20



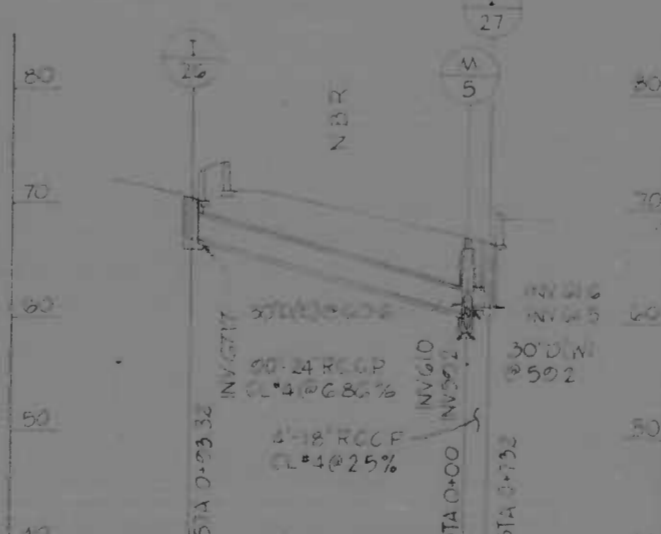
I-10 & S-2



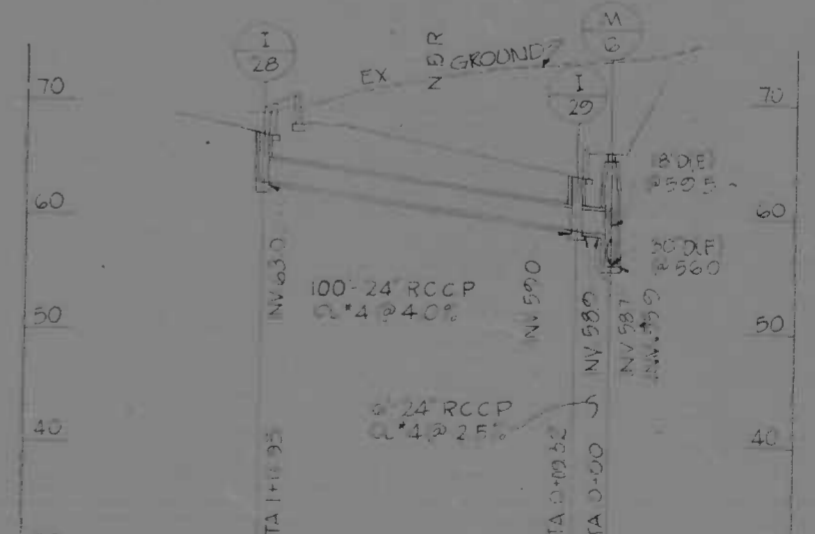
I-20, I-21, I-22, M-3 & I-23



I-24, M-4 & I-25



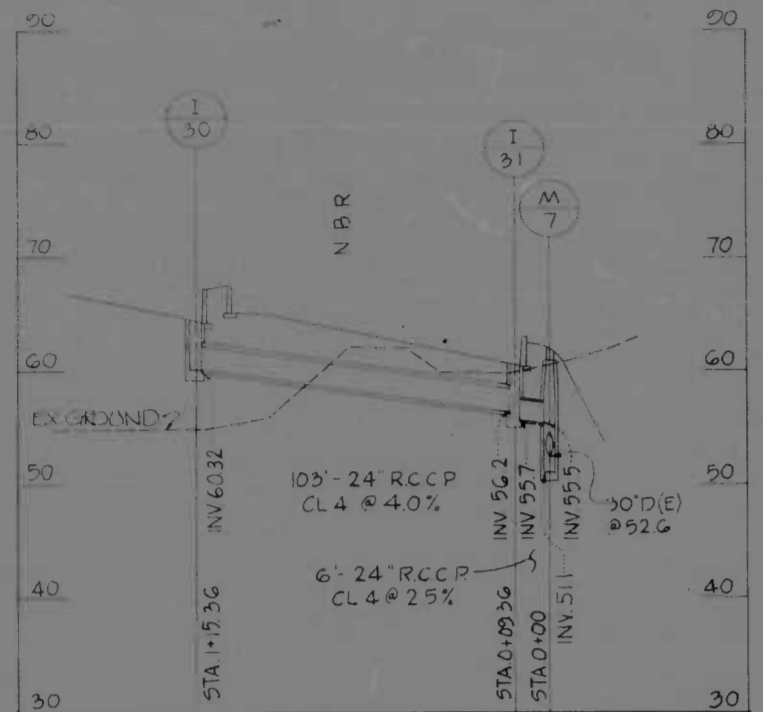
I-26, M-5 & I-27



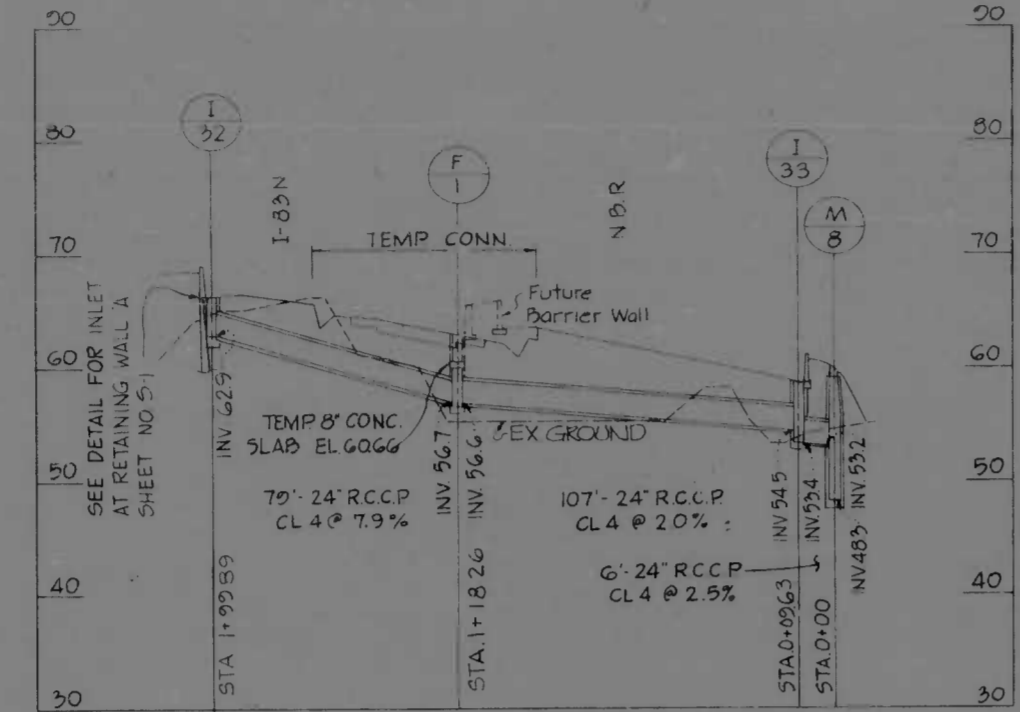
I-28, I-29 & M-6

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	
		DRAWN BY: K.J.	DES. BY: K.J.
		CHECKED BY: J.C.	CHECKED BY: J.C.
		F.A.P. NO. I-95-439/34	SHEET NO. (119)
		S.P.E. NO. 80-266-36-815	P. 15 OF P. 24
		BALTIMORE CITY NO. 1078	DATE: MAY 11, 1973

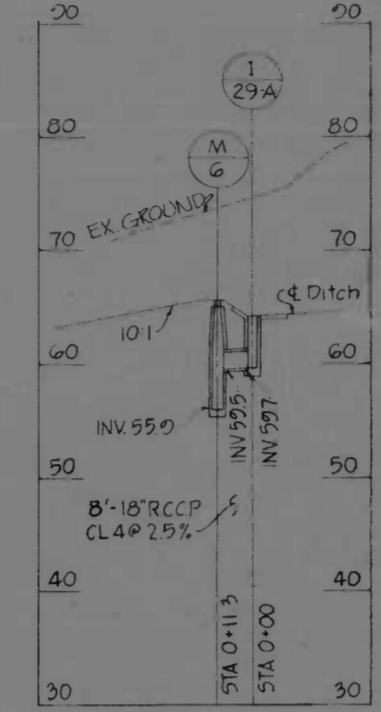
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	P-16	(19) P-24



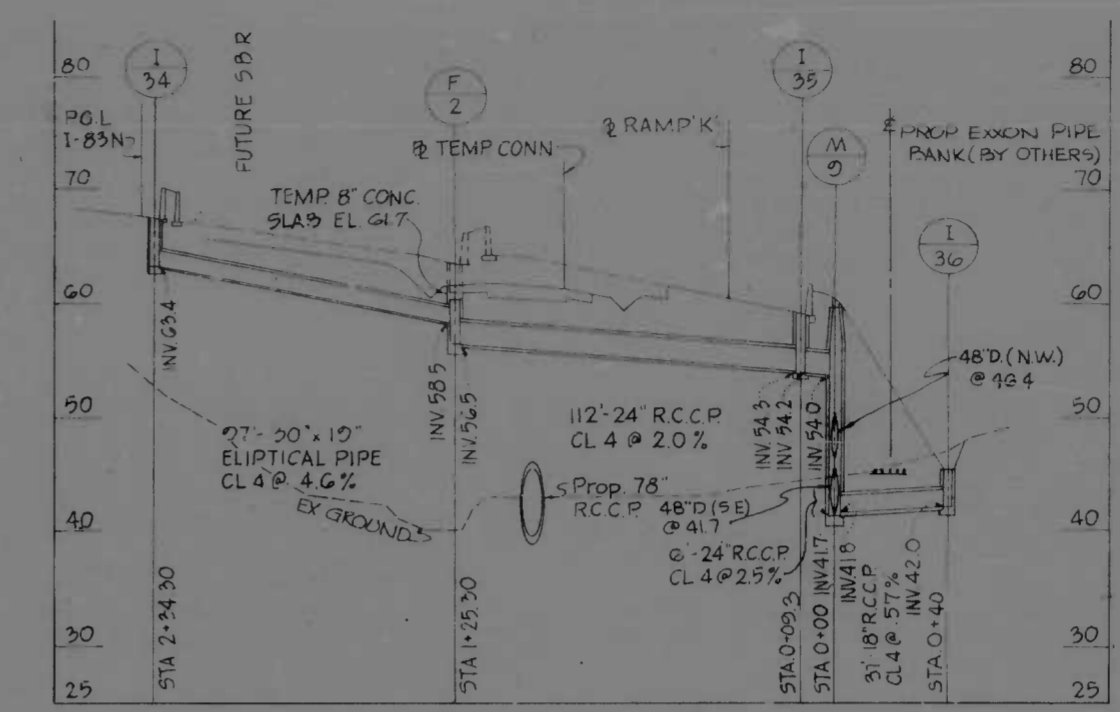
I-30, I-31 & M-7



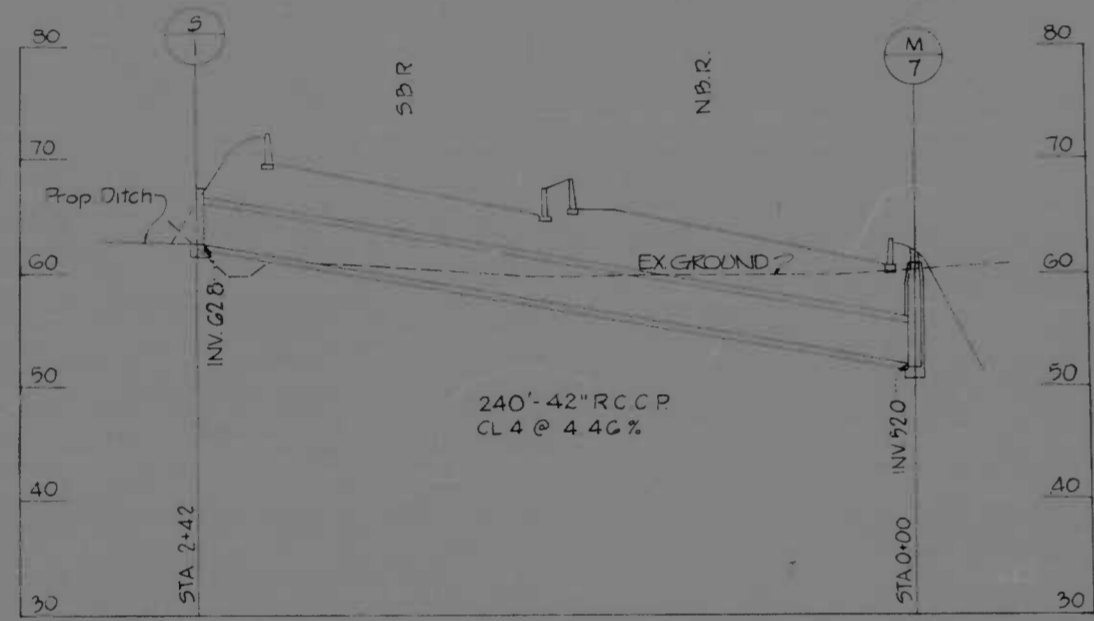
I-32, F-1, I-33 & M-8



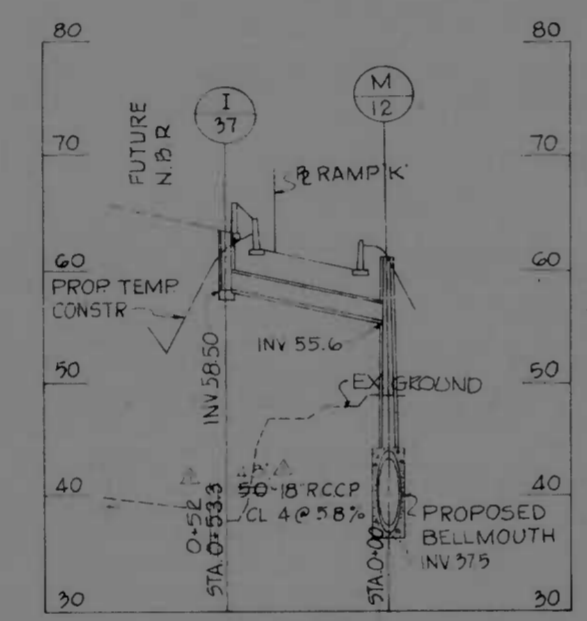
M-6 & I-33



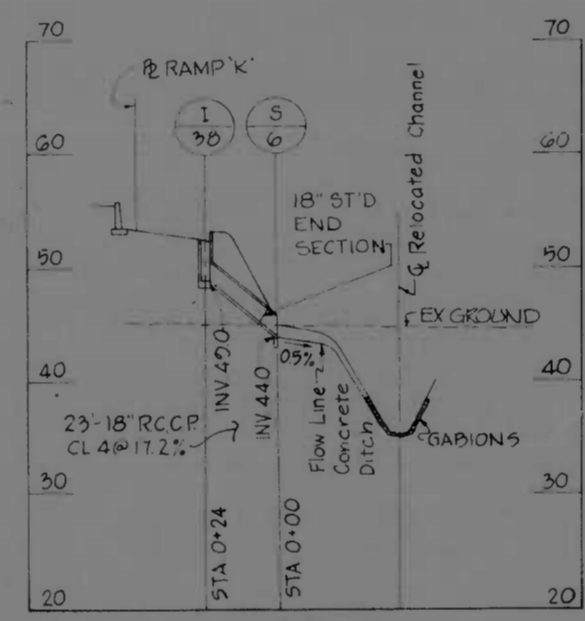
I-34, F-2, I-35, M-9 & I-36



S-1 & M-7

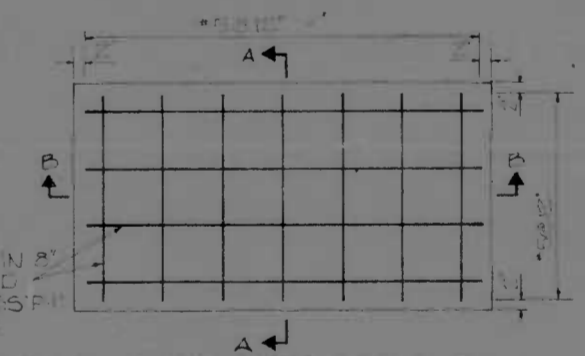


I-37



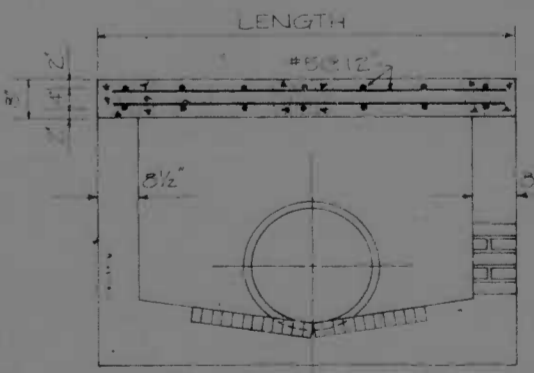
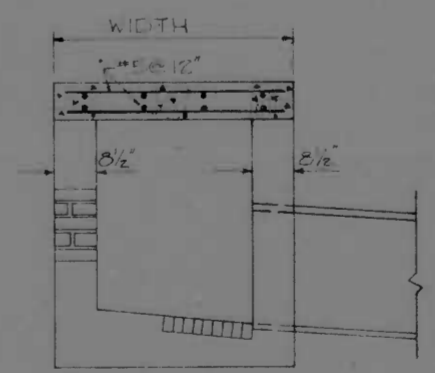
I-38

INLET TYPE	WIDTH	LENGTH
TYPE 'S' (DGT)	4'-0 1/2"	6'-11 1/2"
TYPE 'E'	3'-5"	5'-0 1/2"



PLACE STEEL IN A SLAB TOP AND BOTTOM (CLAS) IN CONCRETE

DETAIL OF CONCRETE CAPING SLAB



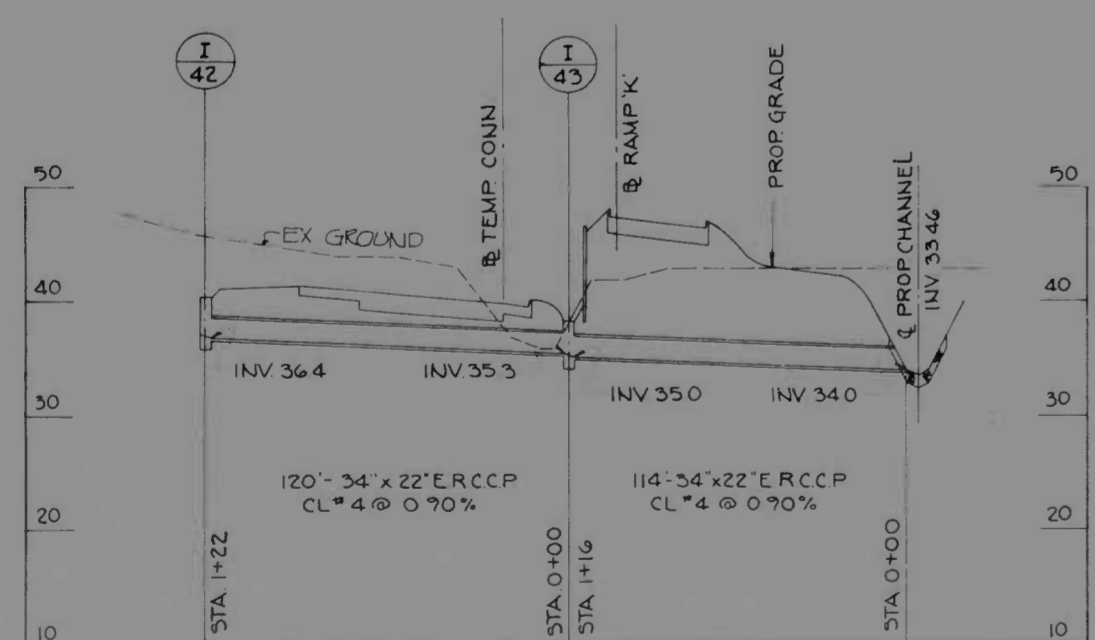
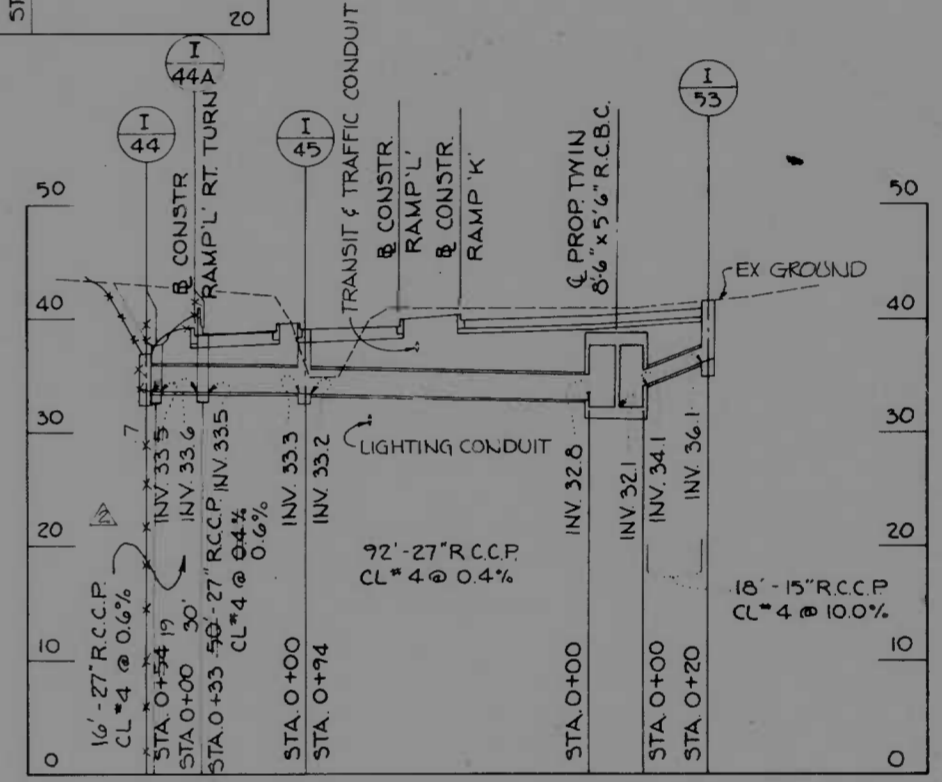
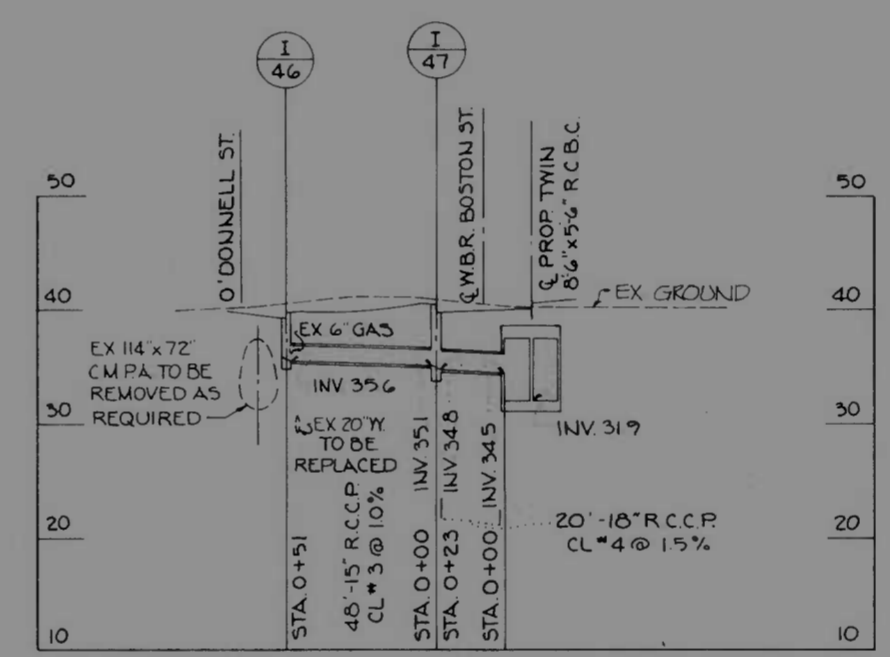
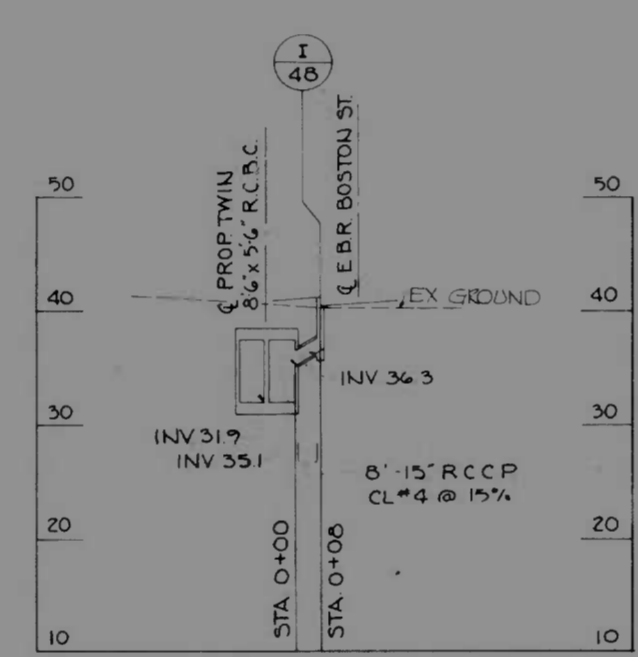
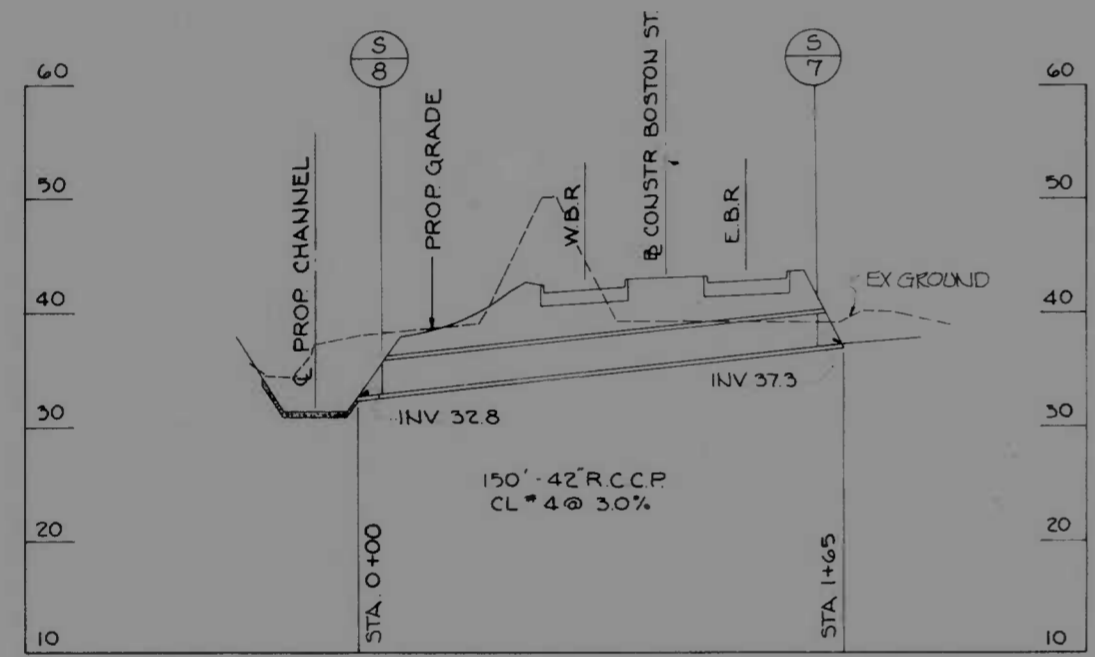
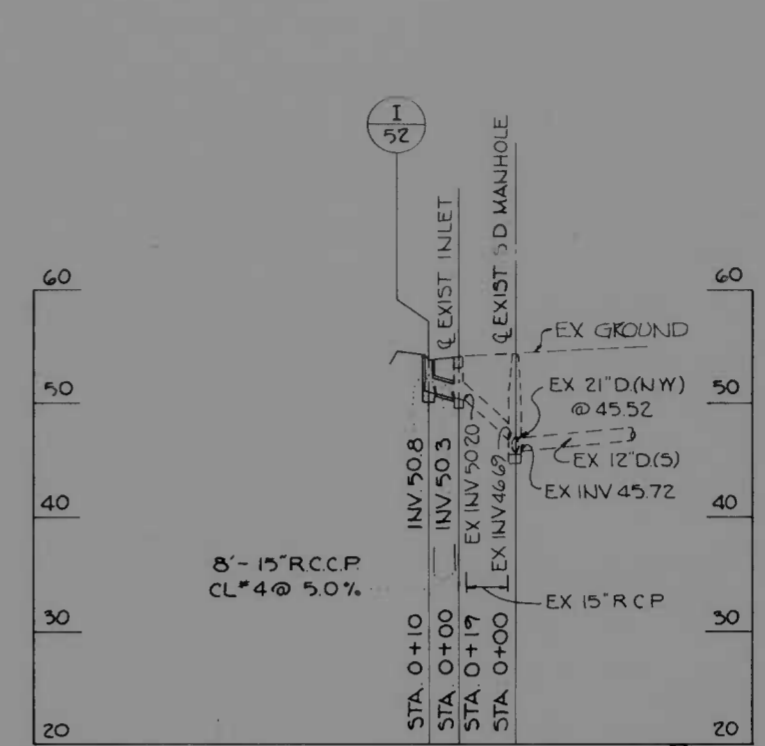
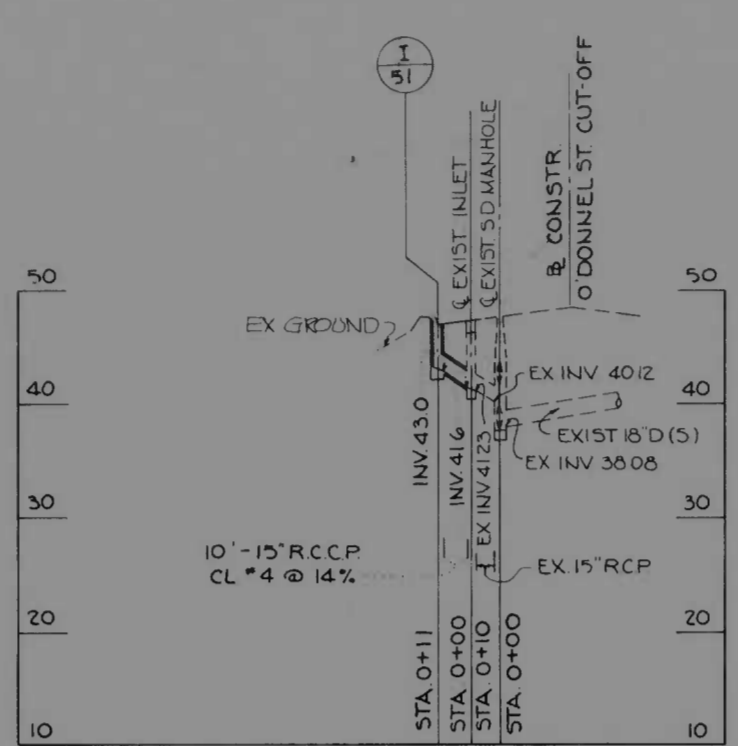
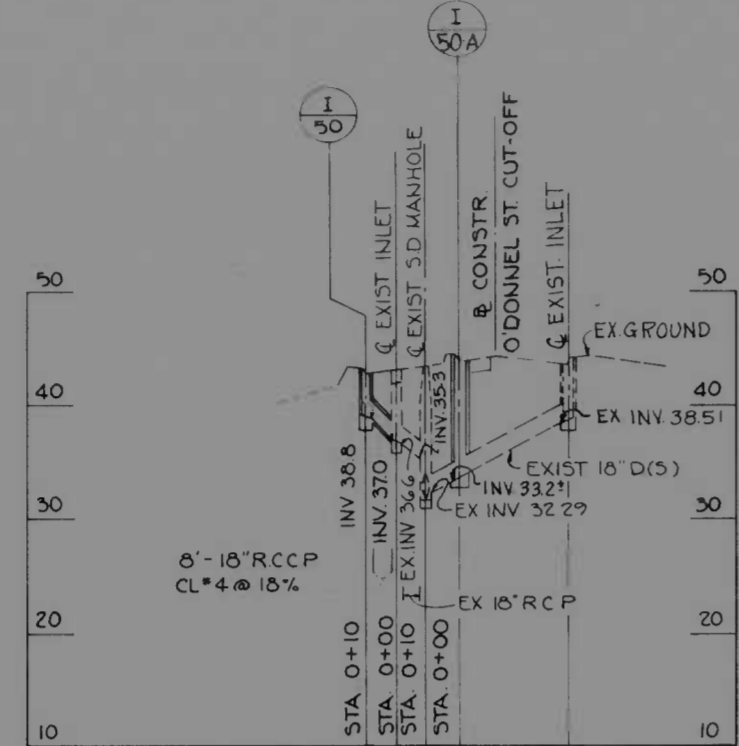
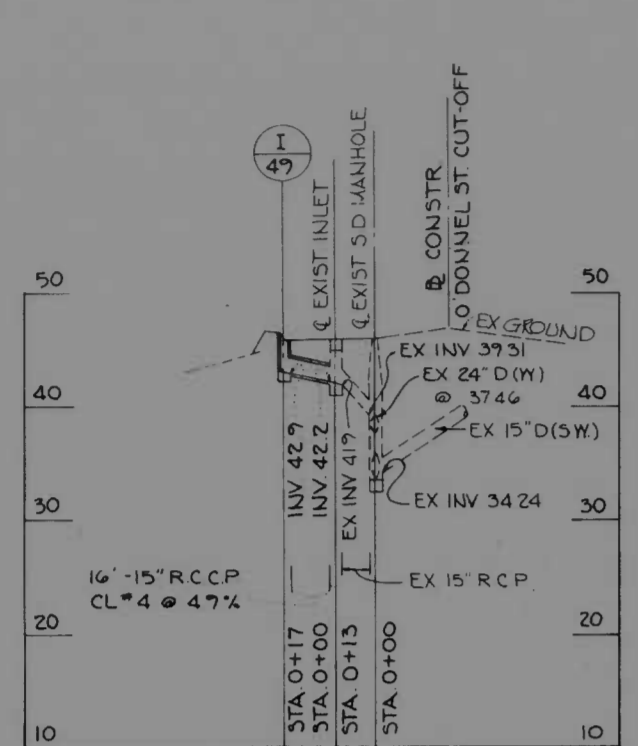
SECTION A-A

SECTION B-B

DETAILS FOR CAPING INLETS SCALE 1/4" = 1'-0"

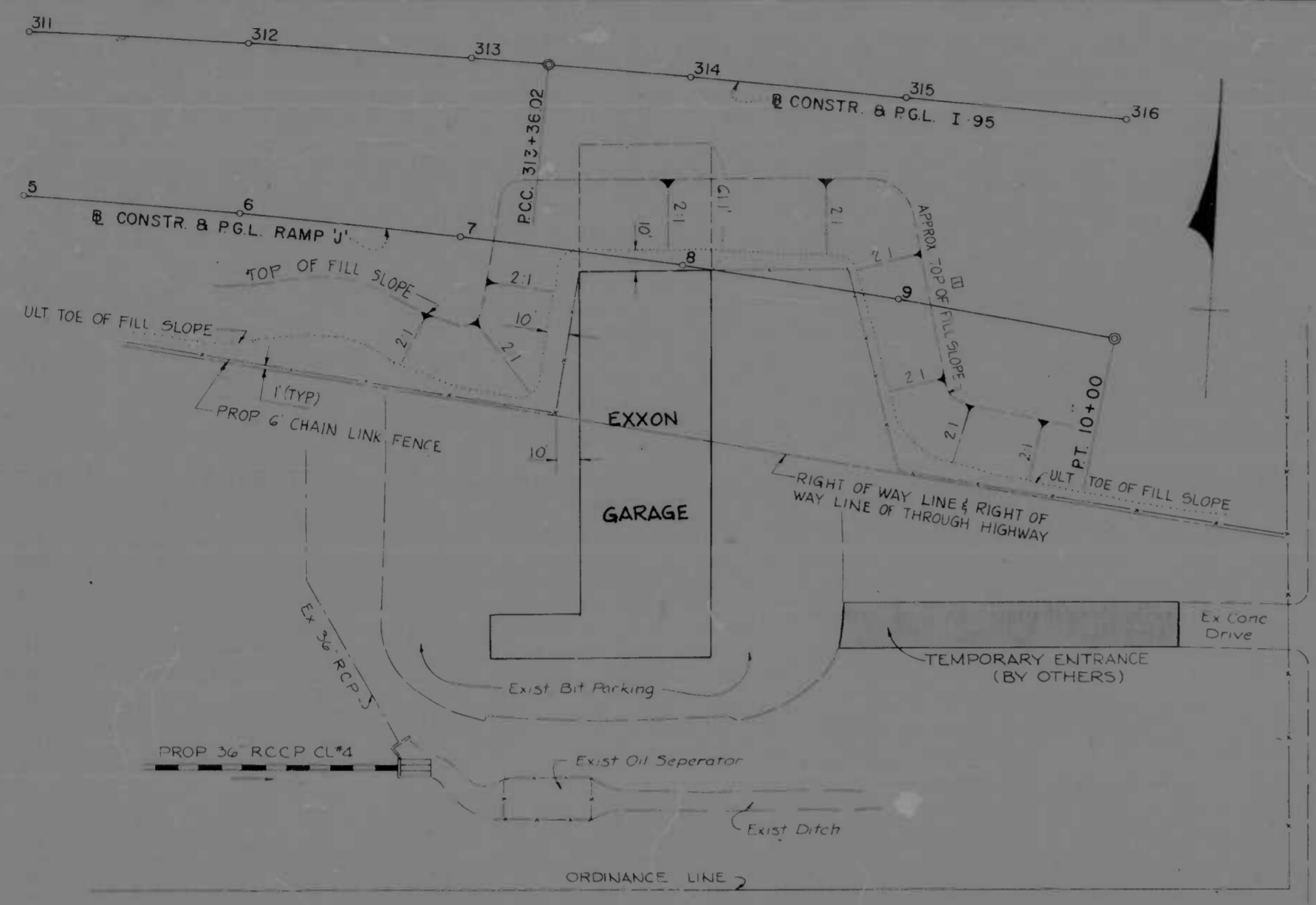
REVISIONS A REVISION LOCATIONS LIST 3-15-74	CONSULTANT MURILL, DENBER, STONE & ... AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: K.J. TRACED BY: D.L.M. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTD. CITY NO. 1998
SCALE: HOB 1" = 40' VERT 1" = 10' DATE: MAY 11, 1973		DES. BY: K.J. CHK. BY: J.L.C. SHEET NO. (19) P-16 of P-24	

FED. ROAD DIV. NO.	STATE	F.P. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	P-17	(119) P-24



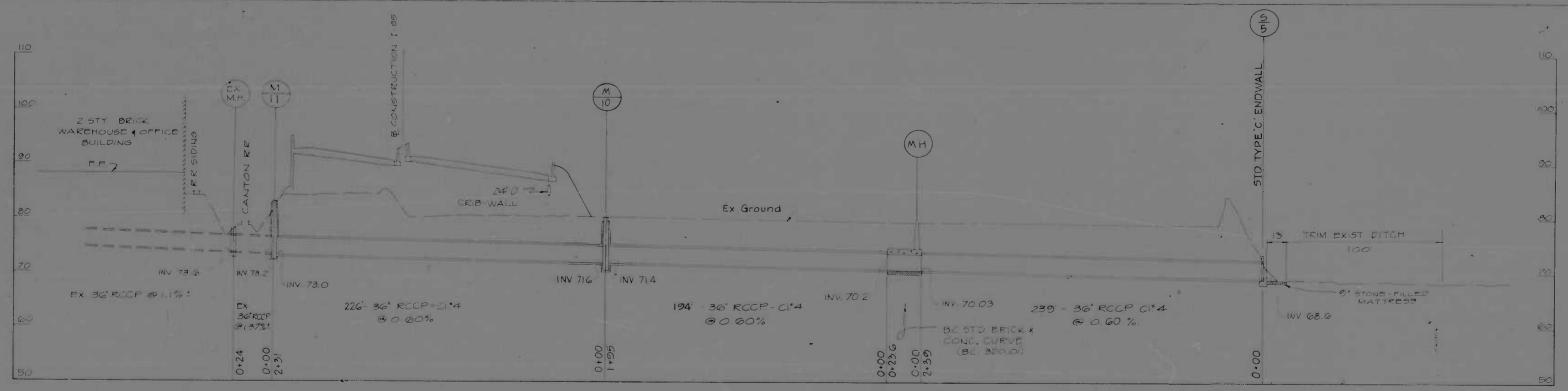
REVISIONS Δ REVISED STORM DRAIN TO ACCOMMODATE BARRIER CURB 7/15/73	CONSULTANT MURLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY P.Z. TRACED BY J.E.T. F.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1398
SCALE: HOR 1"=40' VERT 1"=10' DATE: MAY 11, 1973		DES. BY P.Z. CHK. BY J.L.C. SHEET NO. (119) P-17 of P-24	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-18	P-24



- NOTES:
- PARTIAL AND ULTIMATE REMOVAL OF THE EXISTING EXXON GARAGE TO BE EXECUTED BY THE EXXON CORPORATION.
 - INSTALLATION OF 6' CHAIN LINK FENCE FROM GUSRYAN STREET TO ST MATTHAI CEMETERY AND THE CONSTRUCTION OF THE TEMPORARY ENTRANCE SHALL BE COMPLETED AS ONE OF THE FIRST ITEMS OF WORK.
 - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY SO AS NOT TO INTERFERE WITH THE EXXON SHOP OPERATIONS OR IN ANY WAY RESTRICT THE TRAFFIC FLOW ON THE TEMPORARY ENTRANCE TO THE EXXON GARAGE.
 - THE EXISTING OIL SEPERATOR SOUTH OF STATION 313± I-95 SHALL BE MAINTAINED AT ALL TIME BY THE EXXON CORPORATION, AND ACCESS TO SAID OIL SEPERATOR SHALL NOT BE RESTRICTED AT ANY TIME BOTH DURING AND AFTER CONSTRUCTION.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY SUFFICIENT SEDIMENT CONTROL MEASURES TO PREVENT SEDIMENT FROM ENTERING THE EXISTING OIL SEPERATOR.
 - THE COST OF TEMPORARY GRADING REQUIRED FOR THE EXXON GARAGE SHALL BE INCLUDED IN THE PRICE BID FOR ITS RESPECTIVE ROADWAY ITEMS.

TEMPORARY GRADING FOR THE EXISTING EXXON GARAGE
SCALE: 1" = 40'



RELOCATION OF EXISTING 36" DRAIN- STA. 310+ 1-95

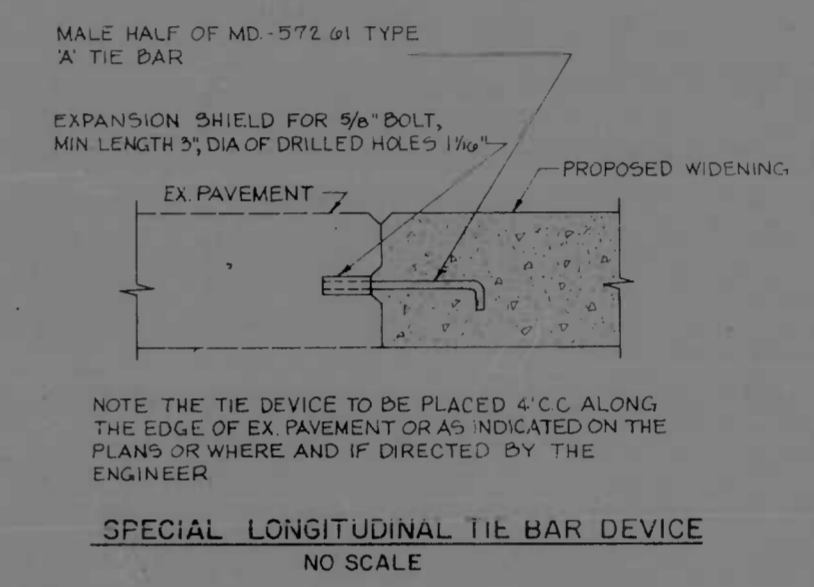
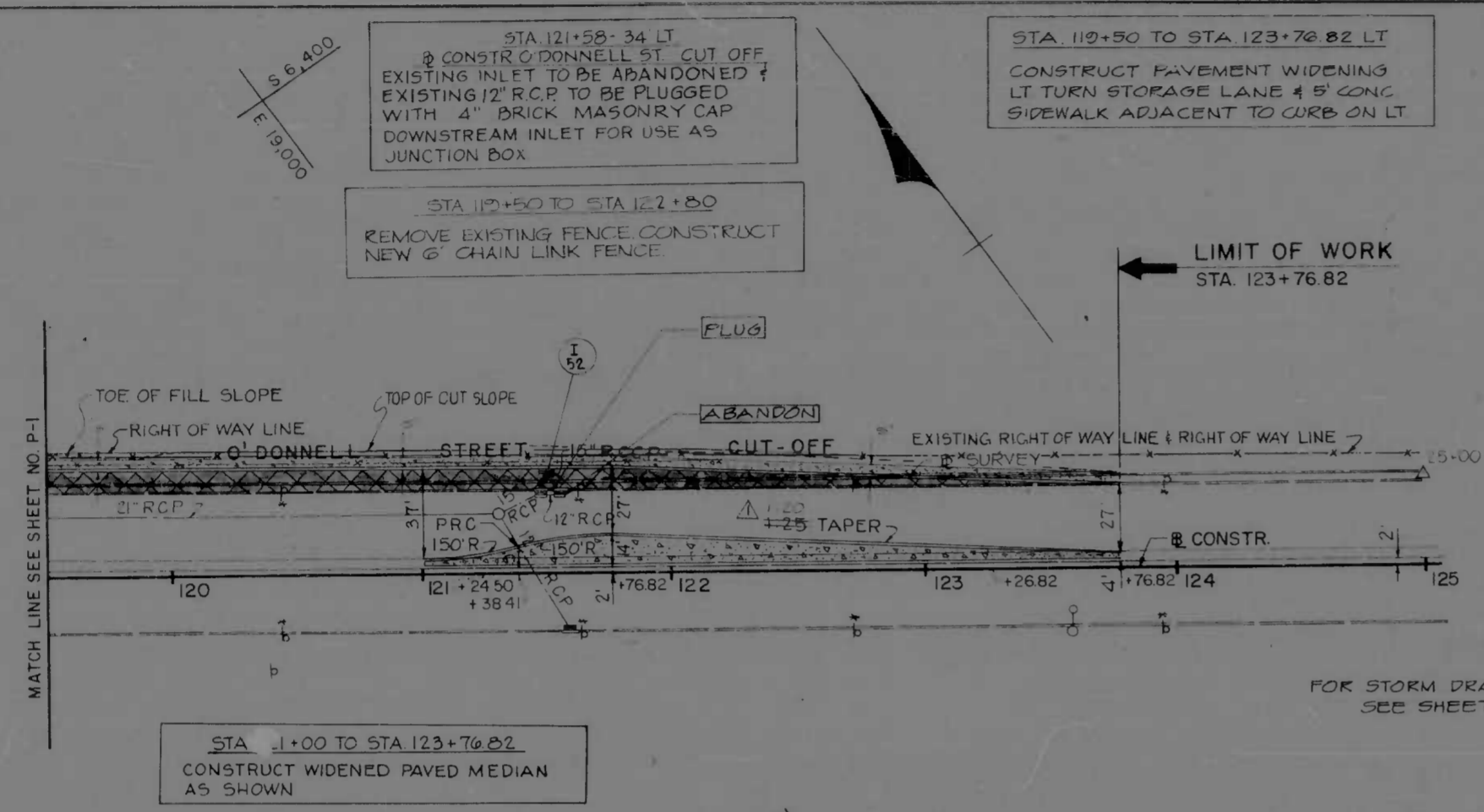
REVISIONS (1) AUG. 1, 1973 ADDENDUM NO. 1	CONSULTANT MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	
SCALE: HOR. 1" = 40' VERT. 1" = 10' DATE: MAY 11, 1973		DRAWN BY: TEL TRACED BY: SM F.A.P. NO.: I-95-4(39)34 S.R.C. NO.: BC 246-36-815 BALTO. CITY NO.: 1998	DES. BY: TEL CHK. BY: JLC SHEET NO.: (119) P-18 OF P-24

INLET SCHEDULE						
NO.	TYPE	LOCATION	CROSS SLOPE 1/4	TOP	INV. OUT	REMARKS
1	ST'D. 'S'	MAINLINE 88.42 RT. 315+55	0.060	93.19	88.70	SINGLE GRATE
2	ST'D. 'S'	MAINLINE 76.42 LT. 314+00	0.017	95.32	91.80	SINGLE GRATE
3	ST'D. 'S'	MAINLINE 5.58 LT. 314+00	0.060	93.89	90.20	DOUBLE GRATE
4	ST'D. 'S'	MAINLINE 5.58 RT. 314+00	0.017	94.32	89.50	SINGLE GRATE
5	ST'D. 'S'	RAMP 'J' 26.42 RT. 7+47	0.060	90.95	87.10	DOUBLE GRATE
6	ST'D. 'S'	MAINLINE 76.42 LT. 311+50	0.017	93.60	90.10	SINGLE GRATE
7	ST'D. 'S'	MAINLINE 5.58 LT. 311+50	0.060	91.82	88.30	DOUBLE GRATE
8	ST'D. 'S'	MAINLINE 5.58 RT. 311+50	0.017	92.31	87.50	SINGLE GRATE
9	ST'D. 'S'	RAMP 'J' 26.42 RT. 5+48	0.060	89.90	85.30	DOUBLE GRATE
10	ST'D. 'S'	MAINLINE 101.5 RT. 309+79	0.060	87.60	83.30	DOUBLE GRATE
11	ST'D. 'S'	MAINLINE 76.42 LT. 309+00	0.017	90.09	86.60	SINGLE GRATE
12	ST'D. 'S'	MAINLINE 5.58 LT. 309+00	0.060	88.31	84.30	DOUBLE GRATE
13	ST'D. 'S'	MAINLINE 5.58 RT. 307+50	0.017	86.00	82.00	SINGLE GRATE
14	ST'D. 'S'	MAINLINE 96.97 RT. 307+50	0.060	83.66	78.50	DOUBLE GRATE
15	ST'D. 'S'	MAINLINE 77.18 LT. 306+50	0.017	85.31	80.50	SINGLE GRATE
16	ST'D. 'S'	MAINLINE 5.58 LT. 306+50	0.060	83.53	79.00	DOUBLE GRATE
17	ST'D. 'S'	MAINLINE 92.97 RT. 305+50	0.060	79.81	74.50	DOUBLE GRATE
18	ST'D. 'S'	MAINLINE 5.58 RT. 305+00	0.017	81.06	76.50	SINGLE GRATE
19	ST'D. 'S'	MAINLINE 79.44 LT. 304+75		82.16	77.60	SINGLE GRATE
20	ST'D. 'S'	MAINLINE 80.95 LT. 304+00		81.36	76.80	SINGLE GRATE
21	ST'D. 'S'	MAINLINE 5.58 LT. 304+00	0.060	78.58	74.10	DOUBLE GRATE
22	ST'D. 'S'	MAINLINE 5.58 RT. 304+00		79.23	73.90	SINGLE GRATE
23	ST'D. 'S'	MAINLINE 88.97 RT. 303+50	0.060	74.76	69.30	DOUBLE GRATE
24	ST'D. 'S'	MAINLINE 5.58 LT. 302+00	0.060	74.62	70.13	DOUBLE GRATE
25	ST'D. 'S'	MAINLINE 89.74 RT. 301+75	0.060	70.81	65.40	DOUBLE GRATE
26	ST'D. 'S'	MAINLINE 5.58 LT. 300+00	0.060	70.66	67.17	DOUBLE GRATE
27	ST'D. 'S'	MAINLINE 93.3 RT. 299+94	0.060	67.05	61.60	DOUBLE GRATE
28	ST'D. 'S'	MAINLINE 5.58 LT. 298+25	0.060	67.20	63.00	DOUBLE GRATE
29	ST'D. 'S'	MAINLINE 96.74 RT. 298+25	0.060	63.51	59.00	DOUBLE GRATE
30	ST'D. 'S'	MAINLINE 5.58 LT. 296+50	0.060	64.30	60.32	DOUBLE GRATE
31	ST'D. 'S'	MAINLINE 100.24 RT. 296+50	0.060	60.42	55.70	DOUBLE GRATE
32	ST'D. 'S'	I-83 N. 35.42 LT. 292+75	0.013	66.41	56.30	DOUBLE GRATE
F-1	ST'D. 'S'	MAINLINE 5.58 LT. 294+02.4	0.060	62.76	56.60	DOUBLE GRATE
33	ST'D. 'S'	MAINLINE 105.24 RT. 204+00	0.060	58.31	53.40	DOUBLE GRATE
34	ST'D. 'S'	I-83 N. 5.42 RT. 290+00	0.060	67.70	63.40	DOUBLE GRATE
F-2	ST'D. 'S'	MAINLINE 5.58 LT. 292+00	0.060	63.79	56.50	DOUBLE GRATE
35	ST'D. 'S'	RAMP 'K' 26.42 RT. 12+00	0.060	59.13	54.20	DOUBLE GRATE
36	ST'D. TYPE 'K'	RAMP 'K' 63.5 RT. 12+25	-----	45.50	42.00	DOUBLE GRATE
37	ST'D. 'S'	MAINLINE 88.42 RT. 290+00	0.060	63.32	58.50	DOUBLE GRATE
38	ST'D. 'S'	RAMP 'K' 25.58 RT. 8+00	0.034	52.28	49.00	DOUBLE GRATE
39	ST'D. TYPE 'K'	CANTON R.R. 14 RT. 14+87	-----	63.50	60.00	DOUBLE GRATE
40	ST'D. TYPE 'K'	CANTON R.R. 16 LT. 15+20	-----	63.77	60.27	DOUBLE GRATE
42	ST'D. TYPE 'K'	RAMP 'L' 9 LT. 26+00	-----	40.30	36.40	DOUBLE GRATE
43	ST'D. TYPE 'K'	RAMP 'K' 17 LT. 7+16	-----	38.10	35.00	DOUBLE GRATE
44	ST'D. TYPE 'K'	RAMP 'L' FREE RT TURN 15 RT. 18+25	-----	37.50	33.50	DOUBLE GRATE
45	ST'D. 'S' COMB.	RAMP 'L' 27 RT. 28+24	0.015	39.00	33.20	SINGLE GRATE
46	ST'D. 'S' COMB.	O'DONNELL ST. 23 RT. 15+25	-----	39.77	35.60	DOUBLE GRATE
47	ST'D. 'S' COMB.	BOSTON ST. 37.5 LT. 286+17	0.016	40.55	34.80	DOUBLE GRATE
48	ST'D. 'S' COMB.	BOSTON ST. 10.8 RT. 286+00	0.016	40.55	36.30	DOUBLE GRATE
49	ST'D. 'S' COMB.	O'DONNELL ST. CUT-OFF 43 LT. 114+10	0.029	46.65	42.90	DOUBLE GRATE
50	ST'D. 'S' COMB.	O'DONNELL ST. CUT-OFF 43 LT. 116+33	0.026	43.31	38.80	DOUBLE GRATE
51	ST'D. 'S' COMB.	O'DONNELL ST. CUT-OFF 43 LT. 119+00	0.035	47.66	43.00	DOUBLE GRATE
52	ST'D. 'S' COMB.	O'DONNELL ST. CUT-OFF 43 LT. 121+50	0.034	54.29	50.80	DOUBLE GRATE
53	ST'D. 'S' COMB.	O'DONNELL ST. 30 LT. 16+78	-----	40.79	36.10	SINGLE GRATE
29-A	ST'D. TYPE 'K'	MAINLINE 106 RT. 298+36	-----	64.20	59.70	DOUBLE GRATE
50-A	ST'D. 'S' COMB.	O'DONNELL ST. CUT-OFF	-----	44.15	33.20	DOUBLE GRATE
44-A	ST'D. 'S' COMB.	RAMP 'L' FREE RT TURN 14 RT. 14+25	0.030	38.57	33.50	DOUBLE GRATE

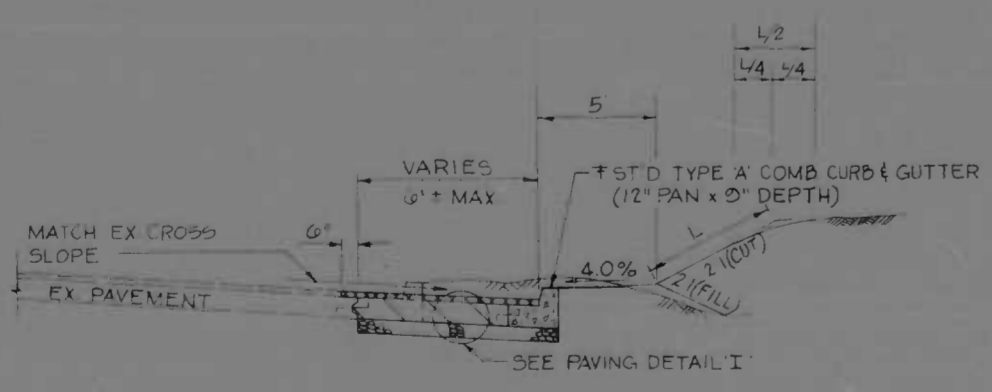
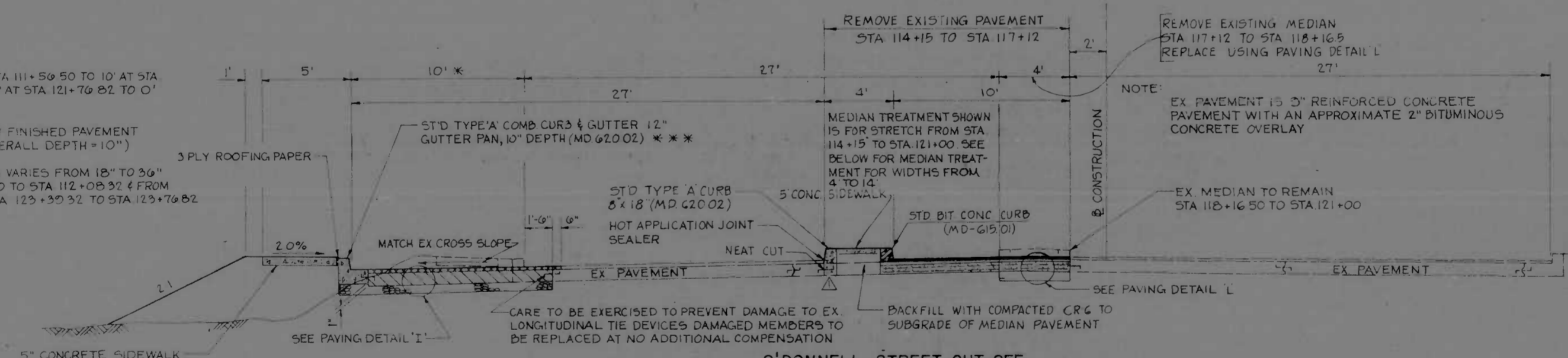
STORM DRAIN MANHOLE SCHEDULE					
NO.	TYPE	LOCATION	TOP	INV. OUT	REMARKS
MH-1	ST'D. S.W.M.H.	MAINLINE 91.3 RT. 309+00	86.89	80.30	ST'D. CHANNEL NO. 1
MH-2	ST'D. S.W.M.H.	MAINLINE 84.3 RT. 305+50	80.33	72.80	ST'D. CHANNEL NO. 1
MH-3	ST'D. S.W.M.H.	MAINLINE 80.3 RT. 303+50	75.31	68.20	ST'D. CHANNEL NO. 2
MH-4	ST'D. S.W.M.H.	MAINLINE 81 RT. 301+75	71.43	64.70	ST'D. CHANNEL NO. 2
MH-5	ST'D. S.W.M.H.	MAINLINE 84.67 RT. 299+94	67.57	59.20	ST'D. CHANNEL NO. 2
MH-6	ST'D. S.W.M.H.	MAINLINE 104.74 RT. 298+25	64.4	55.90	ST'D. CHANNEL NO. 1
MH-7	ST'D. S.W.M.H.	MAINLINE 108.42 RT. 296+50	61.7	51.10	ST'D. CHANNEL NO. 1
MH-8	ST'D. S.W.M.H.	MAINLINE 113.24 RT. 294+00	60.2	48.20	ST'D. CHANNEL NO. 1
MH-9	ST'D. DROP M.H.	RAMP 'K' 34.42 RT. 12+00	60.0	41.70	ST'D. CHANNEL NO. 1
MH-10	ST'D. S.W.M.H.	MAINLINE 148 RT. 310+11	80.25	71.40	ST'D. CHANNEL NO. 2
MH-11	ST'D. S.W.M.H.	MAINLINE 86 RT. 310+42.5	82.9	73.0	ST'D. CHANNEL NO. 2
MH-1A	ST'D. S.W.M.H.	MAINLINE 88.3 RT. 307+50	84.18	77.20	ST'D. CHANNEL NO. 3
MH-1E	ST'D. S.W.M.H.	MAINLINE 86 RT. 306+50	82.25	75.20	ST'D. CHANNEL NO. 1
D-6	SPEC. STRUCT.	MAINLINE ON I-95 292+25.2	TOP TO BE SET IN FIELD		SEE SHEET NO. P-24
D-7	DROP M.H. (7.5' W/OE)	AS SHOWN ON PLAN	66.00	45.31	SEE SHEET NO. P-13
MH-12	SPEC. STRUCT.	RELOC. CHANNEL ON E. 18+17.50	60.70		SEE SHEET NO. P-13

LEGEND
 ST'D. 'S' ----- STANDARD TYPE 'S' INLET
 ST'D. 'S' COMB. ----- STANDARD TYPE 'S' COMBINATION INLET
 ST'D. 'K' ----- STANDARD TYPE 'K' INLET
 S.W.M.H. ----- STANDARD STORM WATER MANHOLE-30" COVER
 *SEE NOTE, SHEET NO. P-20

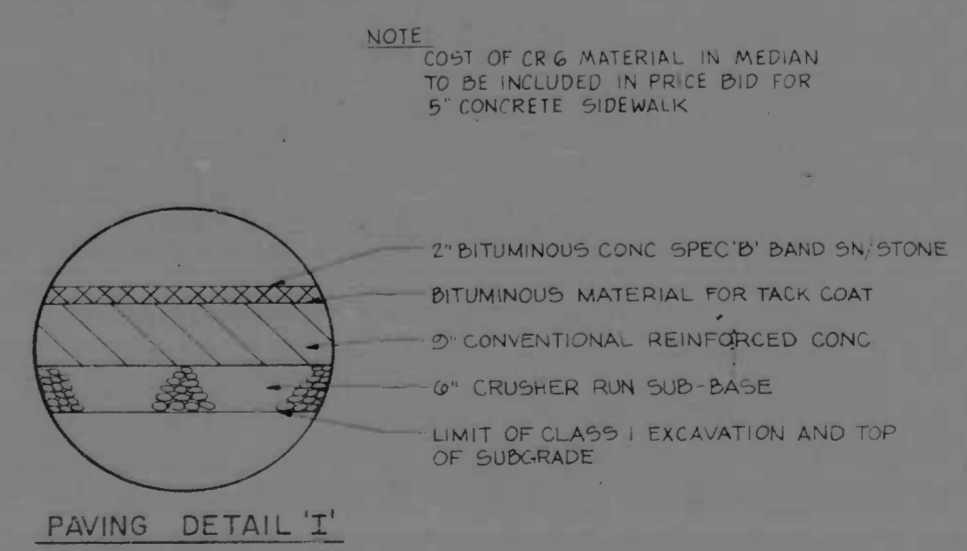
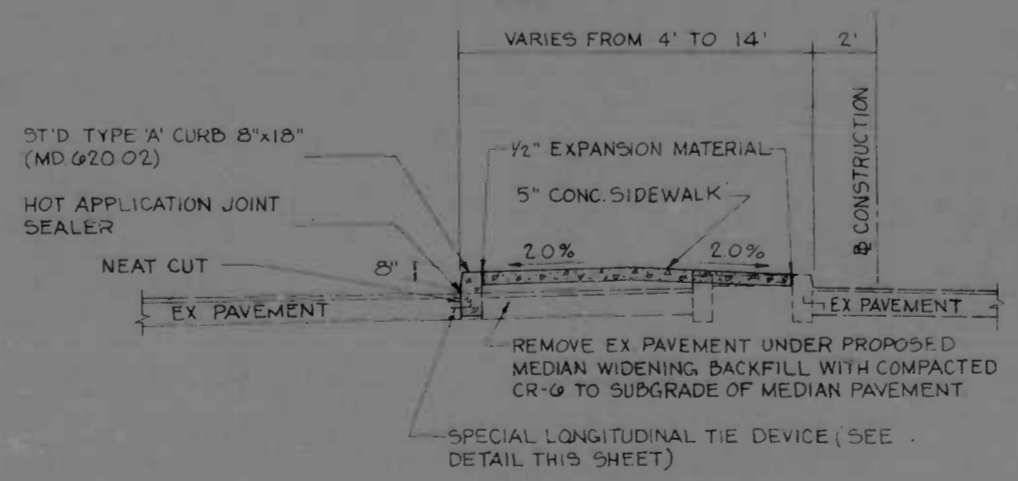
REVISIONS Δ REVISED LOCATION AND ELEVATIONS 3-15-74 Δ REVISED LOCATION & ELEV I-44 ADDED INLET I-44A 7-15-74	CONSULTANT KNOCKE, BENDER, STONE & ASSOC. AND WATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET DRAWN BY J.E.T. DES. BY P.Z. TRACED BY J.E.T. CHK. BY J.L.C. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998	
SCALE: NONE		DATE: MAY 11, 1973	
		SHEET NO. (119) P-19 of P-24	



- * VARIES FROM 0' AT STA 111+59.50 TO 10' AT STA 113+17.50 & FROM 10' AT STA 121+76.82 TO 0' AT STA 123+76.82
- ** 4" DIMENSION BELOW FINISHED PAVEMENT GRADE TO BE 2" (OVERALL DEPTH = 10")
- *** GUTTER PAN WIDTH VARIES FROM 18" TO 36" FROM STA 111+59.50 TO STA 112+08.32 & FROM 36" TO 18" FROM STA 123+30.32 TO STA 123+76.82



WIDENING O'DONNELL STREET CUT-OFF
STA 106+90 TO STA 109+60 RT.
STA 109+47 TO STA 110+15 LT.
NO SCALE



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
CORRECTED TAPER RATE INDICATED LONG TIE DEVICE 3-15-74	KNOERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY J.W.S. TRACED BY J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
		DATE MAY 11, 1973 SCALE 1" = 40'	DES. BY T.E.L. CHK. BY J.L.C. SHEET NO. (119) P-2 of P-24

STORM DRAIN SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-20	(119)

SHEET NO. P-1

- I-43 CONSTRUCTION 7+16 LT. & RT. RAMP 'K'
114'-34"x22" E.R.C.C.P. CLASS 4
1 STD. TYPE 'K' INLET-DOUBLE GRATE
- I-44 A L CONSTRUCTION 1+09.56 RT. RAMP L FREE RT TURN
- I-44 CONSTRUCTION 1+23.5 RT. RAMP L FREE RT. TURN
- I-45 CONSTRUCTION 28+24 RT. RAMP L
158' 142'-27" R.C.C.P. CLASS 4
1 STD. TYPE 'K' INLET-DOUBLE GRATE
+0.0' EXTRA DEPTH-FOR INLET
1-STD. 'S' COMB. INLET SINGLE GRATE
+2.3' EXTRA DEPTH-FOR TYPE 'S' INLET
1-STD. 'S' COMB. INLET-DOUBLE GRATE
+1.4' EXTRA DEPTH
- I-46 CONSTRUCTION 15+25 RT.
O'DONNELL STREET
48'-15" R.C.C.P. CLASS 4
1-STD. 'S' COMB. INLET-DOUBLE GRATE
+0.7' EXTRA DEPTH-FOR INLET
- I-47 CONSTRUCTION 286+17 LT.
BOSTON STREET
1-STD. 'S' COMB. INLET-DOUBLE GRATE
+2.3' EXTRA DEPTH-FOR INLET
20'-18" R.C.C.P. CLASS 4
- I-48 CONSTRUCTION 286+00 RT.
BOSTON STREET
8'-15" R.C.C.P. CLASS 4
1-STD. 'S' COMB. INLET-DOUBLE GRATE
+0.8' EXTRA DEPTH-FOR INLET
- I-49 CONSTRUCTION 114+10 LT.
O'DONNELL ST. CUT-OFF
16'-15" R.C.C.P. CLASS 4
1-STD. 'S' COMB. INLET-DOUBLE GRATE
0.3' EXTRA DEPTH-FOR INLET
1-CONC. CAPPING SLAB
- I-50 CONSTRUCTION 116+33 LT.
O'DONNELL ST. CUT-OFF
1-STD. 'S' COMB. INLET-DOUBLE GRATE
+1.0' EXTRA DEPTH-FOR INLET
1-CONC. CAPPING SLAB
8'-18" R.C.C.P. CLASS 4
- I-51 CONSTRUCTION 119+00 LT.
O'DONNELL ST. CUT-OFF
10'-15" R.C.C.P. CLASS 4
1-STD. 'S' COMB. INLET DOUBLE GRATE
+1.2' EXTRA DEPTH-FOR INLET
1-CONC. CAPPING SLAB
- I-53 CONSTRUCTION 16+78 LT.
O'DONNELL STREET
18'-15" R.C.C.P. CLASS 4
1-STD. 'S' COMB. INLET-SINGLE GRATE
1.2' EXTRA DEPTH-FOR INLET
- S-7, S-B CONSTRUCTION 284+12 LT. & RT.
BOSTON STREET
150'-42" R.C.C.P. CLASS 4
2-STD. END SECTIONS FOR 42" R.C.C.P.
- I-50A CONSTRUCTION 116+33 LT.
O'DONNELL ST. CUT-OFF
REMOVE 2' EXISTING PIPE
1-STD. 'S' COMB. INLET, DOUBLE GRATE
7.5' EXTRA DEPTH - FOR INLET

SHEET NO. P-3

- I-30, I-31 CONSTRUCTION 294+00 RT. I-95
- MH-7, S-1 CONSTRUCTION 296+50 LT. & RT. I-95
CONSTRUCTION 297+50 LT. I-95
109'-24" R.C.C.P. CLASS 4
187'-42" R.C.C.P. CLASS 4
230'-48" R.C.C.P. CLASS 4
2-STD. 'S' GRATE INLETS-DOUBLE GRATE
+1.7' EXTRA DEPTH-FOR INLETS
1-STD. STORM WATER MANHOLE-30" COVER
1-STD. S.H.A. HEADWALL-FOR 42" R.C.C.P.
+7.8' EXTRA DEPTH FOR MANHOLE
- I-32, I-33 CONSTRUCTION 294+00 LT. & RT. I-95
*F-1, MH-B CONSTRUCTION 294+00 RT. I-95
192'-24" R.C.C.P. CLASS 4
162'-48" R.C.C.P. CLASS 4
3-STD. 'S' GRATE INLETS-DOUBLE GRATE
+6' EXTRA DEPTH-FOR INLETS
1-STD. STORM WATER MANHOLE-30" COVER
+8.7' EXTRA DEPTH-FOR MANHOLE
1-CONC. CAPPING SLAB
- I-34 CONSTRUCTION 290+00 RT. I-83N
- *F-2, I-35 CONSTRUCTION 292+00 RT. & LT. I-95
- I-36, MH-9
171'-18" R.C.C.P. CLASS 4
118'-24" R.C.C.P. CLASS 4
164'-48" R.C.C.P. CLASS 4
97'-30"x19" E.R.C.C.P. CLASS 4
3-STD. 'S' GRATE INLETS-DOUBLE GRATE
+3.2' EXTRA DEPTH-FOR TYPE 'S' INLETS
1-STD. TYPE 'K' INLET-DOUBLE GRATE
1-STD. DROP MANHOLE-30" COVER
+16.1' EXTRA DEPTH-FOR MANHOLE
1-CONC. CAPPING SLAB
- I-37 CONSTRUCTION 290+00 RT. I-95
50'-18" R.C.C.P. CLASS 4
1-STD. 'S' GRATE INLET-DOUBLE GRATE
+1.3' EXTRA DEPTH-FOR INLET
- I-38, S-6 CONSTRUCTION 8+00 RT. RAMP 'K'
23'-18" R.C.C.P. CLASS 4
1-STD. 'S' GRATE INLET-DOUBLE GRATE
1-STD. CONC. END SECTION-FOR 18" R.C.C.P.
- I-39 CONSTRUCTION 14+87 RT. CANTON R.R.
- I-40 CONSTRUCTION 15+20 LT. CANTON R.R.
24'-12" R.C.C.P. CLASS 4
2-STD. TYPE 'K' INLETS
- I-42 CONSTRUCTION 26+00 LT. RAMP 'L'
120'-34"x22" E.R.C.C.P. CLASS 4
1-STD. TYPE 'K' INLET-DOUBLE GRATE
+0.4' EXTRA DEPTH-FOR INLET
- S-3 CONSTRUCTION B+50 RT. RAMP 'K'
- S-4 CONSTRUCTION 15+57 LT. CANTON R.R.
627'-78" R.C.C.P. CLASS 4
2-STD. S.H.A. TYPE B-78 HEADWALL
- D-7 CONSTRUCTION I-B3N 290+65 RT. & LT.
182'-42" R.C.C.P. CLASS 4
1-STD. DROP MANHOLE, 30" COVER
+17.7' EXTRA DEPTH FOR MANHOLE
* INLETS F-1, F-2 ARE TO BE PARTIALLY CONSTRUCTED TO ELEVATIONS SHOWN ON SHEET NO. P-1 WITH TEMPORARY 8" CONCRETE SLAB. FUTURE INLET GRATES ARE TO BE DELIVERED TO THE ENGINEER FOR STORAGE

SHEET NO. P-4

- I-11, I-12 & MH-1 CONSTRUCTION 307+50 RT. I-95
CONSTRUCTION 309+00 LT. & RT. I-95
66'-18" R.C.C.P. CLASS 4
239'-24" R.C.C.P. CLASS 4
1 STD. 'S' GRATE INLET-SINGLE GRATE
1 STD. 'S' GRATE INLET-DOUBLE GRATE
+0.5' EXTRA DEPTH-FOR INLET
1-STD. STORM WATER MANHOLE-30" COVER
+3.6' EXTRA DEPTH-FOR MANHOLE
- I-13, I-14 CONSTRUCTION 306+50 RT. I-95
& MH-1A CONSTRUCTION 307+50 RT. I-95
41'-18" R.C.C.P. CLASS 4
171'-24" R.C.C.P. CLASS 4
1-STD. 'S' GRATE INLET-SINGLE GRATE
0.5' EXTRA DEPTH FOR INLET
1-STD. 'S' GRATE INLETS-DOUBLE GRATE
1-7' EXTRA DEPTH-FOR INLET
1-STD. STORM WATER MANHOLE-30" COVER
+4' EXTRA DEPTH FOR MANHOLE
- I-15, I-16 & MH-1B CONSTRUCTION 305+50 RT. & LT. I-95
CONSTRUCTION 306+50 LT. I-95
66'-18" R.C.C.P. CLASS 4
192'-24" R.C.C.P. CLASS 4
1-STD. 'S' GRATE INLET-SINGLE GRATE
+1.3' EXTRA DEPTH FOR INLET
1-STD. 'S' GRATE INLETS-DOUBLE GRATE
+1' EXTRA DEPTH-FOR INLET
1-STD. STORM WATER MANHOLE-30" CO
+4.1' EXTRA DEPTH FOR MANHOLE
- I-17 & MH-2 CONSTRUCTION 305+50 RT. I-95
CONSTRUCTION 305+50 RT. I-95
41'-18" R.C.C.P. CLASS 4
192'-30" R.C.C.P. CLASS 4
1-STD. 'S' GRATE INLET-DOUBLE GRATE
+1.8' EXTRA DEPTH-FOR INLET
1-STD. STORM WATER MANHOLE-30" COVER
+4.5' EXTRA DEPTH-FOR MANHOLE
- I-23 & MH-3 CONSTRUCTION 301+75 RT. I-95
- I-22, I-21, I-20 CONSTRUCTION 303+50 RT. I-95
- I-19 & I-18 CONSTRUCTION 304+00 RT. & LT. I-95
CONSTRUCTION 305+00 RT. & LT. I-95
41'-18" R.C.C.P. CLASS 4
331'-24" R.C.C.P. CLASS 4
165'-30" R.C.C.P. CLASS 4
4 - STD. 'S' GRATE INLETS-SINGLE GRATE
5.1' EXTRA DEPTH FOR INLETS
2-STD. 'S' GRATE INLETS-DOUBLE GRATE
2.9' EXTRA DEPTH-FOR INLETS
1-STD. STORM WATER MANHOLE-30" COVER
+4.1' EXTRA DEPTH-FOR MANHOLE
- I-25 & MH-4 CONSTRUCTION 299+94 RT. I-95
- I-24 CONSTRUCTION 301+75 RT. I-95
CONSTRUCTION 302+00 LT. I-95
41'-18" R.C.C.P. CLASS 4
90'-24" R.C.C.P. CLASS 4
169'-30" R.C.C.P. CLASS 4
2-STD. 'S' GRATE INLETS-DOUBLE GRATE
+2.9' EXTRA DEPTH-FOR INLETS
1-STD. STORM WATER MANHOLE-30" COVER
+3.7' EXTRA DEPTH-FOR MANHOLE
- I-27 & MH-5 CONSTRUCTION 299+94 RT. I-95
CONSTRUCTION 300+00 LT. I-95
41'-18" R.C.C.P. CLASS 4
90'-24" R.C.C.P. CLASS 4
161'-30" R.C.C.P. CLASS 4
2-STD. 'S' GRATE INLETS-DOUBLE GRATE
+2.0' EXTRA DEPTH-FOR INLETS
1-STD. STORM WATER MANHOLE-30" COVER
+5.4' EXTRA DEPTH-FOR MANHOLE
- I-28 CONSTRUCTION 298+25 LT. & RT. I-95
- I-29 & MH-6 CONSTRUCTION 296+50 RT. I-95
81'-18" R.C.C.P. CLASS 4
106'-24" R.C.C.P. CLASS 4
162'-30" R.C.C.P. CLASS 4
2-STD. 'S' GRATE INLETS-DOUBLE GRATE
+1.7' EXTRA DEPTH-FOR INLETS
1-STD. STORM WATER MANHOLE-30" COVER
+5.1' EXTRA DEPTH-FOR MANHOLE
CONSTRUCTION 298+25 RT. I-95
CONSTRUCTION 298+36 RT. I-95
81'-18" R.C.C.P. CLASS 4
1-STD. TYPE 'K' INLET-DOUBLE GRATE
1.0' EXTRA DEPTH-FOR INLET

SHEET NO. P-5

- I-1 CONSTRUCTION 313+50 RT. I-95
CONSTRUCTION 315+55 RT. I-95
198'-24" R.C.C.P. CLASS 4
1-STD. 'S' GRATE INLET-SINGLE GRATE
+1.0' EXTRA DEPTH-FOR INLET
- I-2, I-3 CONSTRUCTION 311+50 RT. I-95
- I-4, I-5 CONSTRUCTION 314+00 LT. & RT. I-95
77'-18" R.C.C.P. CLASS 4
311'-24" R.C.C.P. CLASS 4
2-STD. 'S' GRATE INLET-DOUBLE GRATE
+0.6' EXTRA DEPTH-FOR INLETS
2-STD. 'S' GRATE INLETS-SINGLE GRATE
1.3' EXTRA DEPTH FOR INLETS
- I-6, I-7 CONSTRUCTION 309+79 RT. I-95
- I-8, I-9 CONSTRUCTION 311+50 LT. & RT. I-95
77'-18" R.C.C.P. CLASS 4
258'-24" R.C.C.P. CLASS 4
2-STD. 'S' GRATE INLETS-DOUBLE GRATE
1.1' EXTRA DEPTH-FOR INLETS
2-STD. 'S' GRATE INLETS-SINGLE GRATE
+1.3' EXTRA DEPTH FOR INLETS
- S-2, I-10 CONSTRUCTION 309+00 RT. I-95
CONSTRUCTION 309+79 RT. I-95
12'-18" R.C.C.P. CLASS 4
71'-24" R.C.C.P. CLASS 4
1-STD. 'S' GRATE INLET-DOUBLE GRATE
+0.8' EXTRA DEPTH-FOR INLET
1-STD. S.H.A. TYPE 'C' HEADWALL FOR 18" R.C.P.
- M-10, M-11 & S-5 CONSTRUCTION 310+40 LT. I-95
CONSTRUCTION 7+05 RT. RAMP 'J'
659'-36" R.C.C.P. CLASS 4
2-STD. STORM WATER MANHOLE-30" COVER
+12.7' EXTRA DEPTH-FOR MANHOLES
1-STD. S.H.A. TYPE 'C' HEADWALL-FOR 36" R.C.C.P.
4.3C.Y. STONE FILLED WIRE MATTRESS
1-STD. B.C. BRICK & CONC. CURVE

SHEET NO. P-2

- I-52 CONSTRUCTION 121+50 LT.
O'DONNELL ST. CUT-OFF
8'-15" R.C.C.P. CLASS 4
1-STD. 'S' COMB. INLET-DOUBLE GRATE
1-CONC. CAPPING SLAB

<p>REVISIONS</p> <p>REVISOR: J.E.T. 3-15-78</p> <p>REVISOR: J.E.T. 7-15-78</p>	<p>CONSULTANT</p> <p>UNIVERSAL, BENDER, STONE & ASSOC., INC.</p> <p>MATZ, GIBBS & ASSOC., INC.</p> <p>CONSULTING ENGINEERS</p> <p>841 N. CALVERT STREET</p> <p>BALTIMORE, MARYLAND 21202</p>	<p>CITY OF BALTIMORE</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>INTERSTATE ROUTE 95</p> <p>FROM O'DONNELL STREET</p> <p>TO WEST OF GUSRYAN STREET</p> <p>SCALE: NONE</p> <p>DATE: MAY 11, 1973</p>	<p>STATE ROADS COMMISSION OF MARYLAND</p> <p>INTERSTATE DIVISION FOR BALTIMORE CITY</p> <p>DRAWN BY: J.E.T.</p> <p>TRACED BY: J.E.T.</p> <p>F.A.P. NO. I-95-4(39)34</p> <p>S.R.C. NO. BC 246-36-815</p> <p>BALTO. CITY NO. 1998</p> <p>DES. BY: P.Z.</p> <p>CHK. BY: J.L.C.</p> <p>SHEET NO. (119)</p> <p>P-20 OF P-24</p>
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FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	P-21	P-24



NOTE: ALL AREAS TO BE GRADED WHICH ARE NOT GOVERNED BY CONTOURS, SHALL BE GRADED INDICATED ON THE APPROPRIATE TYPICAL SECTIONS.

NOTE FOR LONGITUDINAL JOINT LOCATIONS, PAVEMENT AND JOINT DETAILS, SEE TYPICAL SECTIONS AND PAVEMENT DETAIL SHEETS

GRADING PLAN & JOINT LAYOUT

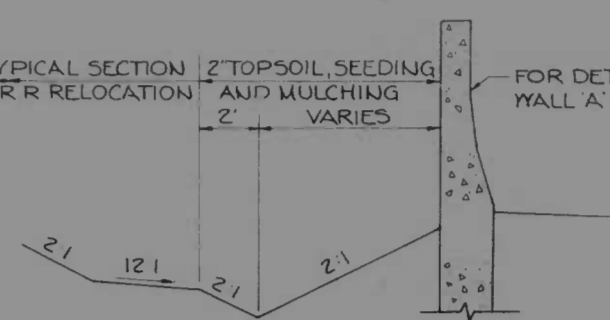
REVISIONS Δ REVISED GRADING RAMP L.F. FREE RT TURN TO ACCOMMODATE DARRIES CURB, ADDED EXHON PIPE LINES 7-15-75	CONSULTANT KIMBLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHING & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET		DRAWN BY J.E.T. TRACED BY J.E.T.	DES. BY T.E.L. CHK. BY J.L.C.
		F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998	SCALE: 1"=40' DATE: MAY 11, 1973	SHEET NO. (110) P-21 OF P-24	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-22	P-24

STA 273+50 I-83 N LT TO STA 278+00 I-95 LT FOR GRADING SEE TYPICAL SECTION INTERSTATE ROUTE I-95 ON SHEET OF

STA 9+00 ± TO STA 19+85 ± CANTON R.R. RELOCATION FOR GRADING SEE TYPICAL SECTION CANTON RAILROAD RELOCATION

SEE TYPICAL SECTION CANTON R.R. RELOCATION FOR DETAILS SEE RETAINING WALL 'A' ON SHEET



TYPICAL GRADING TREATMENT AT RETAINING WALL 'A' NO SCALE



LEGEND

- SOIL BORING
- ▨ BRIDGE APPROACH SLAB
- TERMINAL JOINT
- EXPANSION JOINT
- CONTRACTION JOINT

NOTE FOR LONGITUDINAL JOINT LOCATIONS, PAVEMENT AND JOINT DETAILS, SEE TYPICAL SECTIONS AND PAVEMENT DETAIL SHEETS

NOTE ALL AREAS TO BE GRADED WHICH ARE NOT COVERED BY CONTOURS SHALL BE GRADED AS INDICATED ON THE APPROPRIATE TYPICAL SECTIONS.

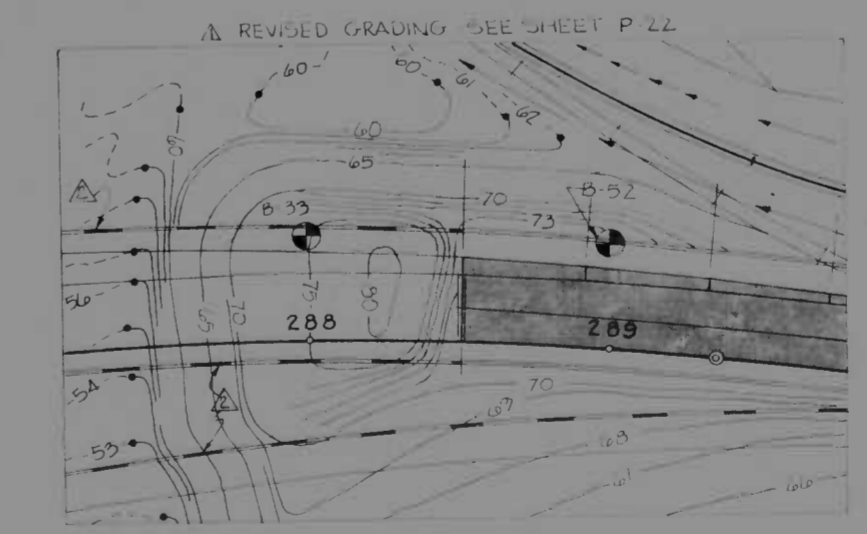
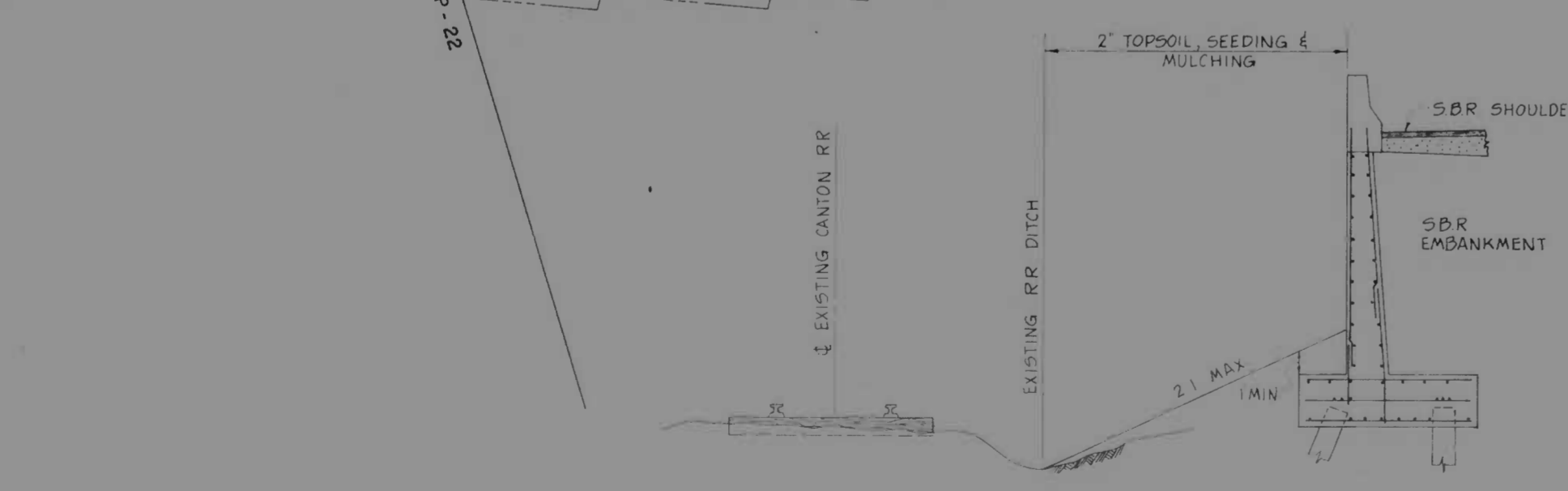
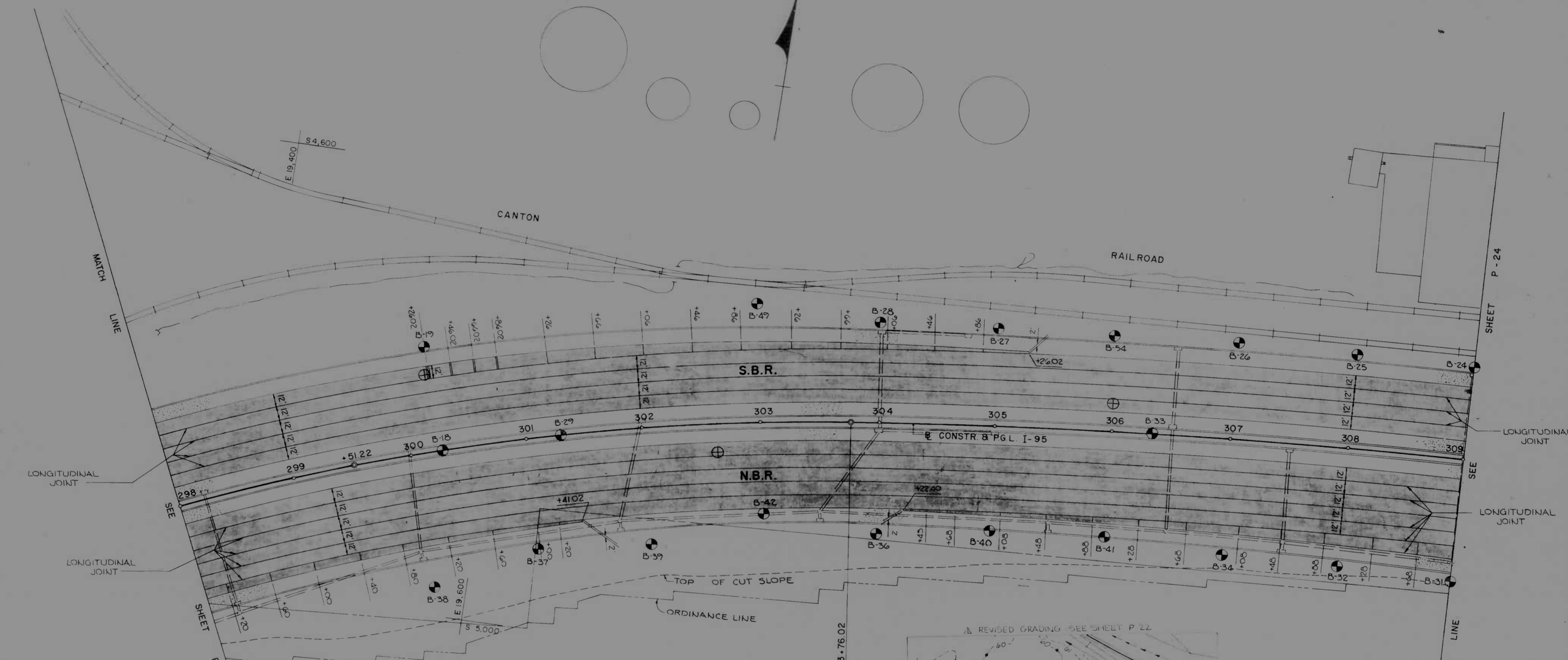
GRADING PLAN & JOINT LAYOUT

STA 10+70 ± TO STA 18+77 ± TEMPORARY CONN. FOR GRADING TREATMENT SEE TYPICAL SECTION TEMPORARY CONNECTION I-95 SBR ON SHEET OF

STA 15+20 ± TO STA 16+62 ± DRAINAGE CHANNEL FOR GRADING TREATMENT SEE TYPICAL SECTION CHANNEL TYPICAL ON SHEET OF

<p>REVISIONS</p> <ul style="list-style-type: none"> ▲ REVISED GRADING PLAN ▲ REVISED GRADING RAMP 'L' ▲ REVISED TERMINAL JOINT LOCATIONS 735/20 	<p>CONSULTANT</p> <p>KIMBERLIE DENNER, STONE & ASSOC., INC.</p> <p>AND</p> <p>MATT, GRIFFIN & ASSOC., INC.</p> <p>CONSULTING ENGINEERS</p> <p>341 N. CALVERT STREET</p> <p>BALTIMORE, MARYLAND 21202</p>	<p>CITY OF BALTIMORE</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>INTERSTATE ROUTE 95</p> <p>FROM O'DONNELL STREET</p> <p>TO WEST OF GUSRYAN STREET</p> <p>SCALE: 1"=40'</p>	<p>STATE ROADS COMMISSION OF MARYLAND</p> <p>INTERSTATE DIVISION FOR BALTIMORE CITY</p> <p>DRAWN BY: J.E.T.</p> <p>TRACED BY: J.E.T.</p> <p>F.A.P. NO. I-95-4(39)34</p> <p>S.R.C. NO. BC 246-36-815</p> <p>BALTO. CITY NO. 1998</p> <p>DES. BY: T.E.L.</p> <p>CHK. BY: J.L.C.</p> <p>SHEET NO. (119)</p> <p>P-22 OF P-24</p>
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-23	P-24



- LEGEND**
- ⊕ SOIL BORING
 - ▨ BRIDGE APPROACH SLAB
 - TERMINAL JOINT
 - EXPANSION JOINT
 - CONTRACTION JOINT
- NOTE: FOR LONGITUDINAL JOINT LOCATIONS PAVEMENT AND JOINT DETAILS, SEE TYPICAL SECTIONS AND PAVEMENT DETAIL SHEETS

GRADING PLAN & JOINT LAYOUT

REVISIONS A. REVISED GRADING 3-15-74 B. REVISED BARRIER CURB (FUTURE) 7-15-74	CONSULTANT KNDERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHURDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET INTERSTATE DIVISION FOR BALTIMORE CITY	
		DRAWN BY: J.E.T. TRACED BY: J.E.T. F.A.P. NO. I-95-4(39)34 S.A.E. NO. BC 246-36-815 BALTO. CITY NO. 1998	DES. BY: T.E.L. CHK BY: J.L.C. SHEET NO. (119) P-23 OF P-24

SCALE: 1" = 40' DATE: MAY 11, 1973

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-24	(119)



LEGEND

	BRIDGE APPROACH SLAB
	TERMINAL JOINT
	EXPANSION JOINT
	CONTRACTION JOINT

NOTE: ALL AREAS TO BE GRADED WHICH ARE NOT GOVERNED BY CONTOURS SHALL BE GRADED AS INDICATED ON THE APPROPRIATE TYPICAL SECTIONS.

NOTE: FOR LONGITUDINAL JOINT LOCATIONS, PAVEMENT AND JOINT DETAILS, SEE TYPICAL SECTIONS AND PAVEMENT DETAIL SHEETS.

GRADING PLAN & JOINT LAYOUT

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ANDERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 1417 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY J.E.T. TRACED BY J.E.T. DES. BY T.E.L. CHK. BY J.L.C.
		SCALE: 1"=40'	DATE: MAY 11, 1973
			F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-B15 BALTO. CITY NO. 1998
			SHEET NO. 119 P-24 OF P-24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-3	(119)

B.M. # 7764 ELEV. 51.705
 BRASS SCREW IN WEST END OF CONC. CULVERT SOUTH SIDE OF CANTON R.R. 250' ± S.E. OF INTERSECTION OF HUDSON & UMBRA STREETS

CROSS REFERENCE TO DRAWINGS

DRAWING	SHEET NO.
TYPICAL SECTIONS	
I-95	T-6
I-83 N	T-8
RAMP 'K'	T-6
TEMPORARY CONNECTION - SDR I-95	T-8
RAMP 'L'	T-6
CANTON R.R. RELOCATION	P-12

STA. 10+00 TO STA. 18+86.55
 RELOCATE CANTON RAILROAD

STA. 8+51 RT. RAMP 'K' TO STA. 15+50 LT. CANTON RAILROAD
 CONSTRUCT 78" RCCP CULVERT.

STD MD 38701 UNDERDRAIN
 SDR STA 295+26 TO STA 298+00 RT
 NBR STA 292+41 TO STA 298+00 RT
 RAMP 'K' STA 7+25 TO STA 12+41 RT
 I-83 N STA 288+30 TO STA 290+00 RT
 OUTLET LOCATION AS SHOWN

STA. 13+90 TO STA. 17+00 LT.
 RELOCATED CANTON RAILROAD
 CONSTRUCT 2.0' DIKE SEE DETAIL ON SHEET P-12

STA. 287+75 LT. I-83 N TO STA. 298+00 LT. I-95
 INSTALL 6" CHAIN LINK FENCE FROM STA. 288+00 I-83 N TO STA. 296+00 I-95 PROVIDE 4" DIAMETER STEEL SLEEVES 18 IN. LONG IN RETAINING WALL & CONC. BARRIER. COST OF SLEEVES TO BE INCLUDED IN BID PRICE FOR THE RETAINING WALL OR CONCRETE BARRIER ITEMS.

STA. 277+50 TO STA. 298+00 LT. I-95
 CUT & SOD INLET DITCH; W=3', D=1'

CROSS REFERENCE TO DRAWINGS (CONT.)

DRAWING	SHEET NO.
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PROFILES	SHEET NO.
I-95	P-6
I-83 N	P-6
I-83 S	P-8
RAMP 'K'	P-9
TEMP CONNECTION SDR I-95	P-10
RAMP 'L'	P-9
CANTON R.R. RELOCATION	P-12

STRUCTURAL	SHEET NO.
78" RCCP & CHANNEL STORM DRAINS	P-13
GRADING PLAN	P-14-P-20
	P-22

UTILITY RELOCATIONS	SHEET NO.
UTILITY PLAN	U-2
UTILITY PROFILES	U-4-U-6
UTILITY DETAILS	U-7-U-9

LIGHTING	SHEET NO.
100' SCALE PLANS	L1-L3
MISC DETAILS	L4-L8

SIGNING	SHEET NO.
100' SCALE PLANS	S11-S15
MISC DETAILS	S16-S18

- 9" CONVENTIONAL REINFORCED CONCRETE
- 8" CONTINUOUS REINFORCED CONCRETE
- BITUMINOUS PAVEMENT
- TEMPORARY CONNECTION
- BITUMINOUS SHOULDER MATERIAL
- BITUMINOUS OVERLAY ON 8" CONVENTIONAL REINFORCED CONCRETE (CONTRASTING PAVEMENT)

STA. 14+57 TO STA. 15+25 TEMP CONN.
 31 LF GUARD RAIL W/ BEAM
 1-STD END FLARE

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISED RAMP TO BARRIER	3-15-74
2	REVISED BARRIER CARD	3-15-74
3	REVISED EXIST. EXCAV. PIPE BANK ADDED TO PLANS	3-15-74
4	REVISED EXIST. EXCAV. AND MARKERS TO RAMP 'K'	3-15-74

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISED RAMP 'L' TAPER	3-15-74
2	REVISED SDR I-95 N	3-15-74
3	REVISED SDR I-95 SDR	3-15-74
4	REVISED SDR I-95	3-15-74
5	REVISED SDR I-95	3-15-74

CONSULTANT
 KIRDELE, BENJER, STONE & ASSOC., INC.
 100 N. CALVERT STREET
 BALTIMORE, MARYLAND 21202

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 INTERSTATE ROUTE 95
 FROM O'DONNELL STREET
 TO WEST OF GUSRYAN STREET

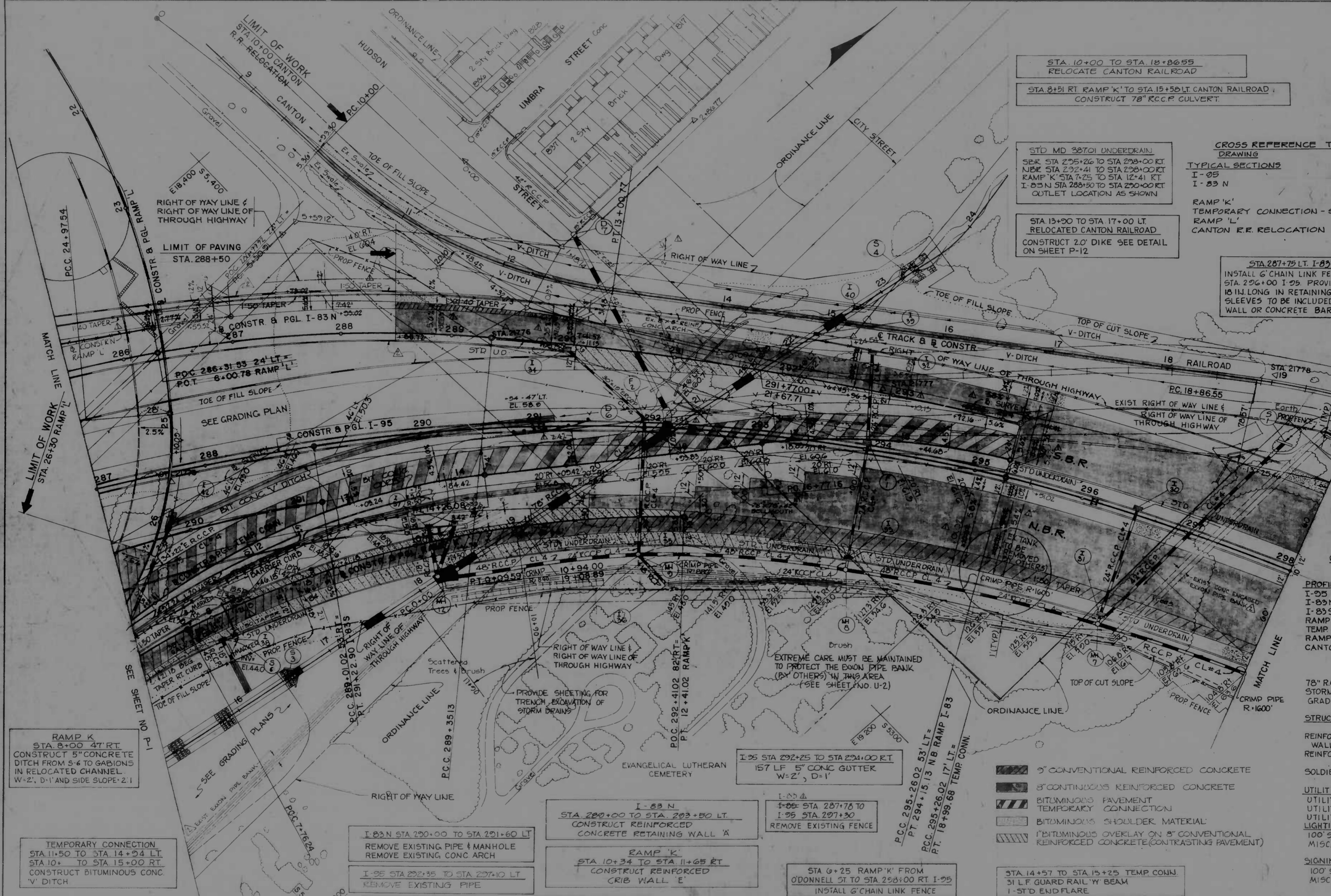
STATE ROADS COMMISSION OF MARYLAND
 INTERSTATE DIVISION FOR BALTIMORE CITY

SCALE: 1"=40'
 DATE: MAY 11, 1973

DRAWN BY: J.W.S.
 TRACED BY: J.W.S.
 F.A.P. NO. I-95-4(39)34
 S.R.C. NO. BG 246 36-815
 BALTO. CITY NO. 1928

DES. BY: J.E.L.
 CHK. BY: J.L.C.

SHEET NO. (119)
 P-3 OF P-24



RAMP 'K'
 STA. 8+00 47' RT.
 CONSTRUCT 5" CONCRETE
 DITCH FROM S-4 TO GABIONS
 IN RELOCATED CHANNEL.
 W=2', D=1' AND SIDE SLOPE 2:1

TEMPORARY CONNECTION
 STA. 11+50 TO STA. 14+24 LT.
 STA. 10+ TO STA. 15+00 RT.
 CONSTRUCT BITUMINOUS CONC.
 V-DITCH

RAMP 'K'
 STA. 8+21.35 TO STA. 8+46.18 RT. & LT.
 TRANSITION FROM COMBINATION
 CURB & GUTTER TO CONC. BARRIER

TEMPORARY CONNECTION
 STA. 11+00 RT. STA. 12+50 RT.
 CONSTRUCT BIT CONC CURB
 OPENING & FLUME

I-83 N STA. 290+00 TO STA. 291+60 LT.
 REMOVE EXISTING PIPE & MANHOLE
 REMOVE EXISTING CONC ARCH

I-95 STA. 292+35 TO STA. 297+10 LT.
 REMOVE EXISTING PIPE

STA. 7+25 TO STA. 10+00 LT. RAMP 'K'
 CONSTRUCT SOLDIER PILE TIMBER LAGGING WALL

I-95 STA. 292+45 TO STA. 297+10 LT.
 REMOVE EXISTING PIPE

I-83 N
 STA. 280+00 TO STA. 293+50 LT.
 CONSTRUCT REINFORCED
 CONCRETE RETAINING WALL 'A'

RAMP 'K'
 STA. 10+34 TO STA. 11+65 RT.
 CONSTRUCT REINFORCED
 CRIB WALL 'E'

I-95 STA. 292+25 TO STA. 294+00 RT.
 157 LF 5" CONC GUTTER
 W=2', D=1'

I-83 N
 STA. 287+75 TO
 STA. 291+30
 REMOVE EXISTING FENCE

STA. 8+25 RAMP 'K' FROM
 O'DONNELL ST. TO STA. 253+00 RT. I-95
 INSTALL 6" CHAIN LINK FENCE

EXTREME CARE MUST BE MAINTAINED
 TO PROTECT THE EXIST. PIPE BANK
 (BY OTHERS) IN THIS AREA
 (SEE SHEET AND U-2)

PROVIDE SHEETING FOR
 TRENCH EXCAVATION OF
 STORM DRAINS

RIGHT OF WAY LINE &
 RIGHT OF WAY LINE OF
 THROUGH HIGHWAY

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DM MC-3 SLEV 73.143

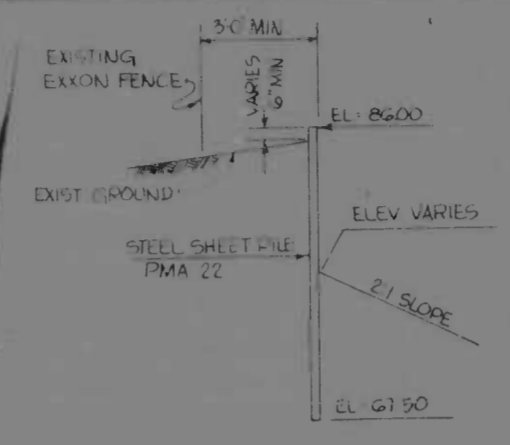
CROSS REFERENCE TO DRAWINGS

REV. NO.	DATE	BY	CHKD.	APP'D.
2	MD	I-95-4139/34	P-4	IUG/F-24

STA 299+00 TO STA 300+00 LT
CONSTRUCT STEEL SHEET PILING

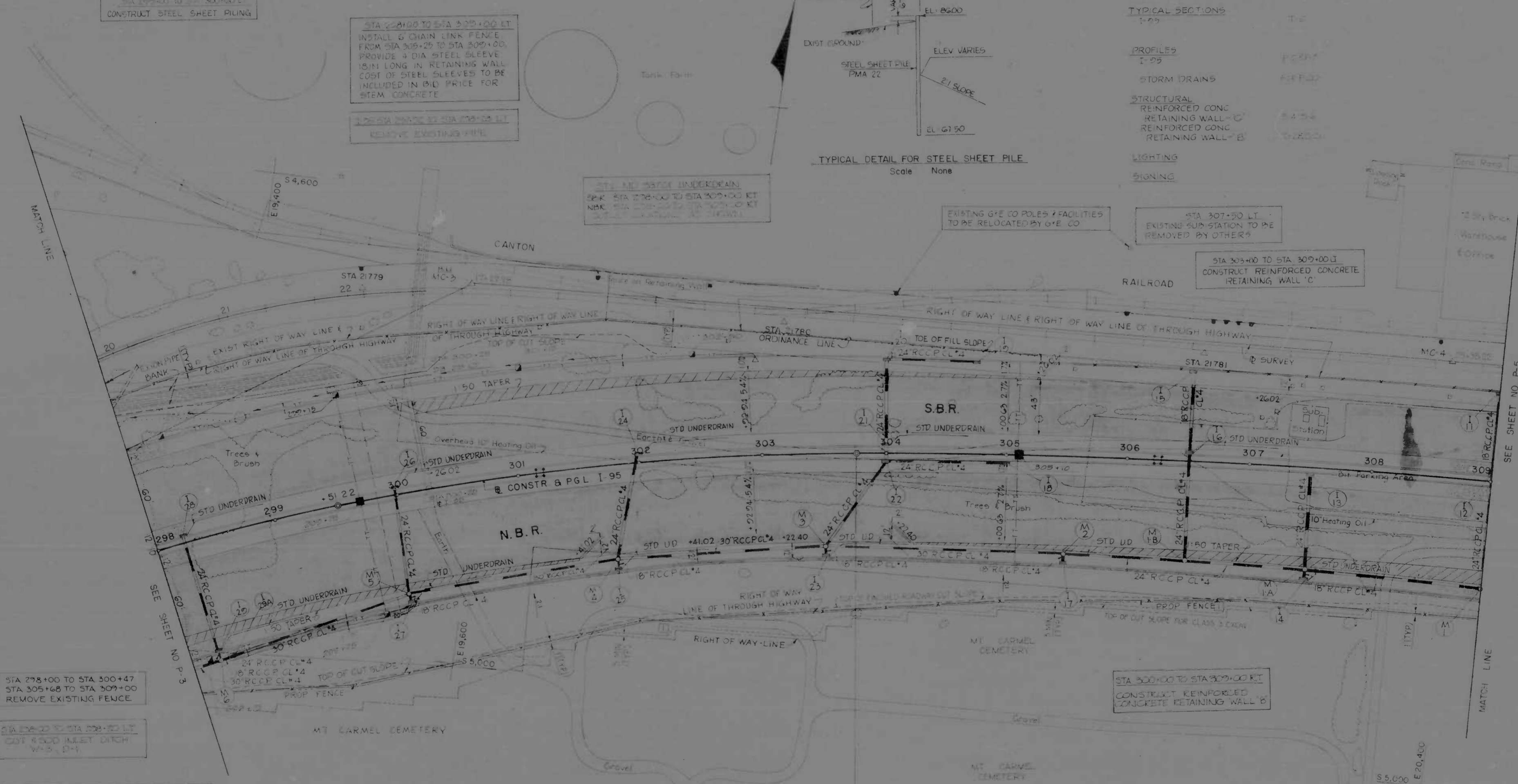
STA 301+00 TO STA 302+00 RT
INSTALL 6' CHAIN LINK FENCE
FROM STA 301+25 TO STA 302+00.
PROVIDE 4" DIA STEEL SLEEVE
18" LONG IN RETAINING WALL.
COST OF STEEL SLEEVES TO BE
INCLUDED IN BID PRICE FOR
STEM CONCRETE

STA 303+00 TO STA 304+00 LT
REMOVE EXISTING FENCE



DRAWING	SHEET NO.
TYPICAL SECTIONS	T-2
PROFILES	P-2
STORM DRAINS	S-2
STRUCTURAL	
REINFORCED CONC	
RETAINING WALL 'C'	C-3
REINFORCED CONC	
RETAINING WALL 'B'	B-2
LIGHTING	
SIGNING	

TYPICAL DETAIL FOR STEEL SHEET PILE
Scale None



STA 298+00 TO STA 300+47
STA 305+68 TO STA 309+00
REMOVE EXISTING FENCE

STA 298+00 TO STA 299+00 LT
CUT 4" DIA INLET DITCH
W-5, D-4

HIGH MAST LIGHTING FOUNDATIONS			
LOCATION	DISTANCE	SIDE	REMARKS
I-95 STA 301+18	0	E	4' DIA
I-95 STA 306+24	0	E	4' DIA

NOTES

HANDHOLES AND MANHOLES TO BE INSTALLED AS NOTED ON DETAIL ON SHEET NO. D-3

STA 297+70 S.B.R.
INSTALL 84 LN FT OF 4" GALV STEEL CONDUIT

STA 298+75 N.B.R.
INSTALL 84 LN FT OF 4" GALV STEEL CONDUIT

STA 299+82
INSTALL 88 LN FT OF 4" GALV STEEL CONDUIT AND CONDUIT MARKERS

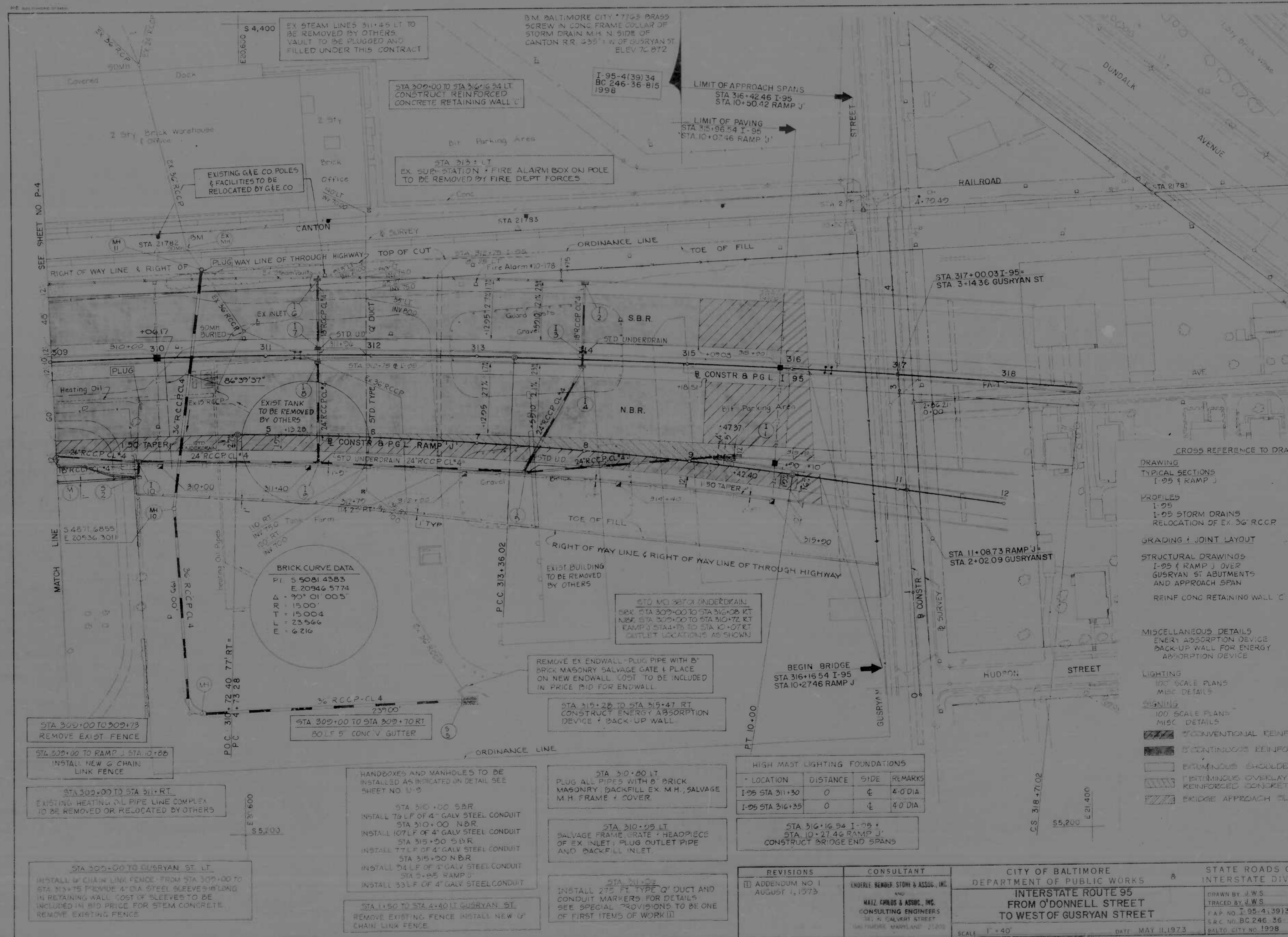
STA 302+10 S.B.R.
INSTALL 78 LN FT OF 4" GALV STEEL CONDUIT

STA 302+10 N.B.R.
INSTALL 82 LN FT OF 4" GALV STEEL CONDUIT

STA 299+00 TO STA 302+00 RT
INSTALL 6' CHAIN LINK FENCE

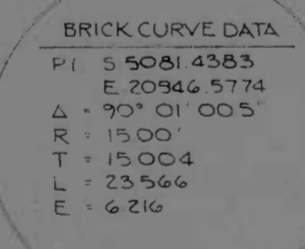
STA 303+00 TO STA 304+00 LT
REMOVE EXISTING FENCE

REVISIONS 1. ADDENDUM 001, 06/11/73	CONSULTANT ENDRILL BINDER, STONE & ASSOC. WATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 241 N. CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET SCALE 1" = 40' DATE MAY 11, 1973	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY J.W.S. TRACED BY J.W.S. P.L.P. NO. I-95-4(33)34 S.R.P. NO. RC 246-36-615 BALTO. CITY NO. 1998
DRAWN BY T.E.L. CHKD BY J.W.S.		SHEET NO. 11159 P-4 OF P-24	



CROSS REFERENCE TO DRAWINGS

DRAWING	SHEET NO.
TYPICAL SECTIONS I-95 RAMP J	T-6
PROFILES	
I-95	P-7
I-95 STORM DRAINS	P-14-P-17
RELOCATION OF EX. 36" RCCP	P-8
GRADING & JOINT LAYOUT	P-24
STRUCTURAL DRAWINGS	
I-95 RAMP J OVER GUSRVAN ST ABUTMENTS AND APPROACH SPAN	S-20-S-27
REINF CONC RETAINING WALL C	S-4-S-6
MISCELLANEOUS DETAILS	
ENERGY ABSORPTION DEVICE	S-1-S-6
BACK-UP WALL FOR ENERGY ABSORPTION DEVICE	T-9
LIGHTING	
100 SCALE PLANS	L-1-L-3
MISC DETAILS	U-1-U-3
SIGNING	
100 SCALE PLANS	S-1-S-15
MISC DETAILS	S-16-S-19



HIGH MAST LIGHTING FOUNDATIONS

LOCATION	DISTANCE	SIDE	REMARKS
I-95 STA 311+30	0	E	4'-0" DIA
I-95 STA 316+35	0	E	4'-0" DIA

- STA 309+00 TO 309+173 REMOVE EXIST FENCE
- STA 309+00 TO RAMP J STA 310+00 INSTALL NEW CHAIN LINK FENCE
- STA 309+00 TO STA 311+RT. EXISTING HEATING OIL PIPE LINE COMPLEX TO BE REMOVED OR RELOCATED BY OTHERS
- STA 309+00 TO GUSRVAN ST. LT. INSTALL CHAIN LINK FENCE FROM STA 309+00 TO STA 311+RT PROVIDE 4" DIA STEEL SLEEVES IN LONG IN RETAINING WALL COST OF SLEEVES TO BE INCLUDED IN BID PRICE FOR STEAM CONCRETE REMOVE EXISTING FENCE

- HANDHOLES AND MANHOLES TO BE INSTALLED AS INDICATED ON DETAIL SEE SHEET NO. U-9
- STA 310+00 S.B.R. INSTALL 76 LF OF 4" GALV STEEL CONDUIT
- STA 310+00 N.B.R. INSTALL 107 LF OF 4" GALV STEEL CONDUIT
- STA 315+00 S.B.R. INSTALL 77 LF OF 4" GALV STEEL CONDUIT
- STA 315+00 N.B.R. INSTALL 94 LF OF 4" GALV STEEL CONDUIT
- STA 315+00 RAMP J. INSTALL 33 LF OF 4" GALV STEEL CONDUIT

- STA 310+00 LT. PLUG ALL PIPES WITH 8" BRICK MASONRY SALVAGE GATE & PLACE ON NEW ENDWALL COST TO BE INCLUDED IN PRICE BID FOR ENDWALL
- STA 310+25 LT. SALVAGE FRAME, GRATE & HEADPIECE OF EX INLET, PLUG OUTLET PIPE AND BACKFILL INLET

- STA 311+55 INSTALL 275 FT TYPE 'Q' DUCT AND CONDUIT MARKERS FOR DETAILS SEE SPECIAL PROVISIONS TO BE ONE OF FIRST ITEMS OF WORK

REVISIONS

ADDENDUM NO 1	AUGUST 1, 1973
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CONSULTANT
 KENDRICK BENDER, STONE & ASSOC., INC.
 AND
 MATZ, CHILDS & ASSOC., INC.
 CONSULTING ENGINEERS
 341 N. CALVERT STREET
 BALTIMORE, MARYLAND 21202

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
INTERSTATE ROUTE 95
FROM O'DONNELL STREET
TO WEST OF GUSRVAN STREET

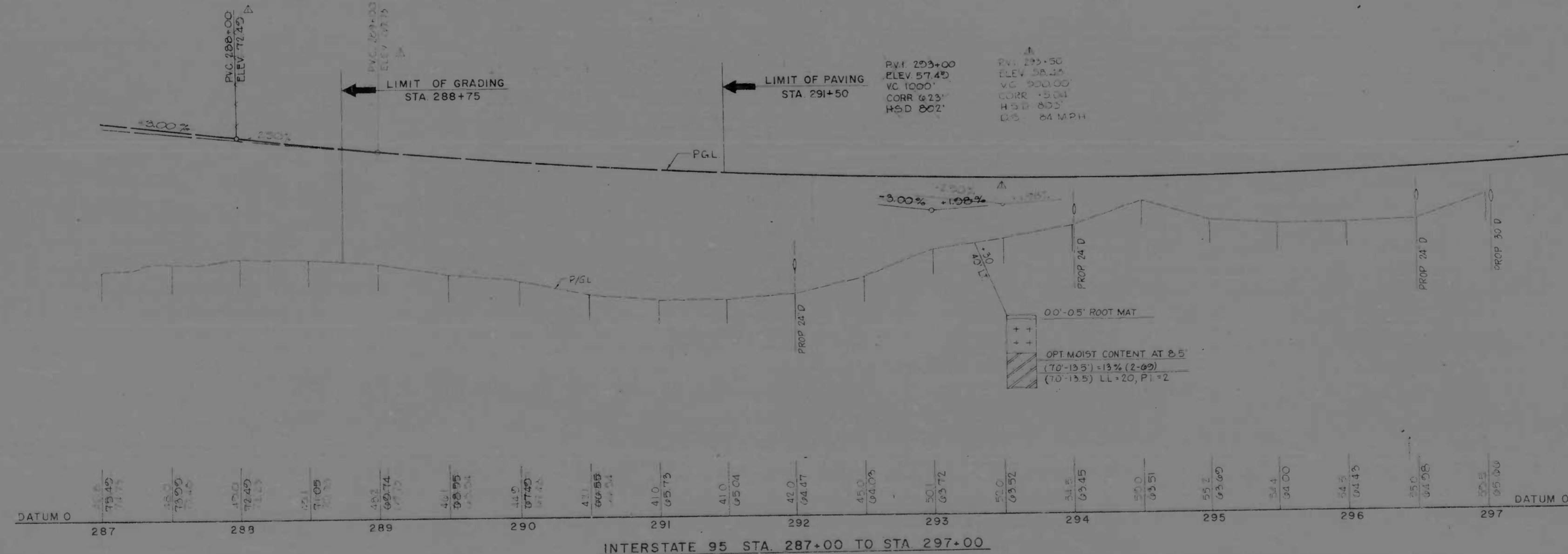
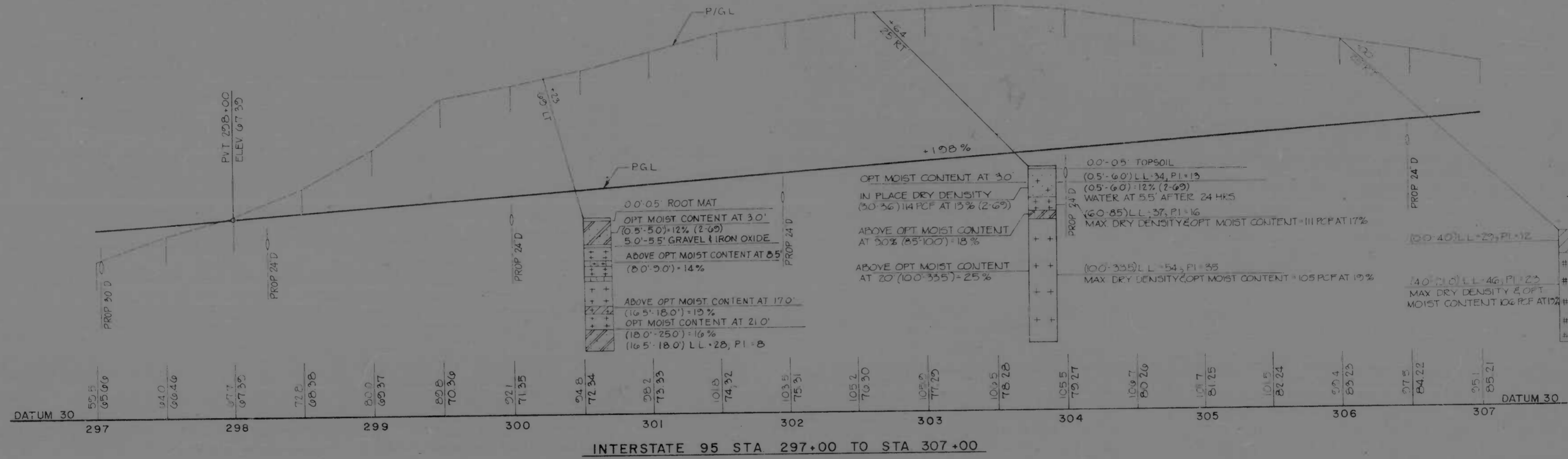
STATE ROADS COMMISSION OF MARYLAND
 INTERSTATE DIVISION FOR BALTIMORE CITY

DRAWN BY J.W.S.
 TRACED BY J.W.S.
 F.A.P. NO. I-95-4(39)34
 S.R.C. NO. BC 246-36-815
 BALTO CITY NO. 1998

DES. BY T.E.L.
 CHK. BY J.L.G.

SHEET NO. (119)
 P. 5 OF P. 24

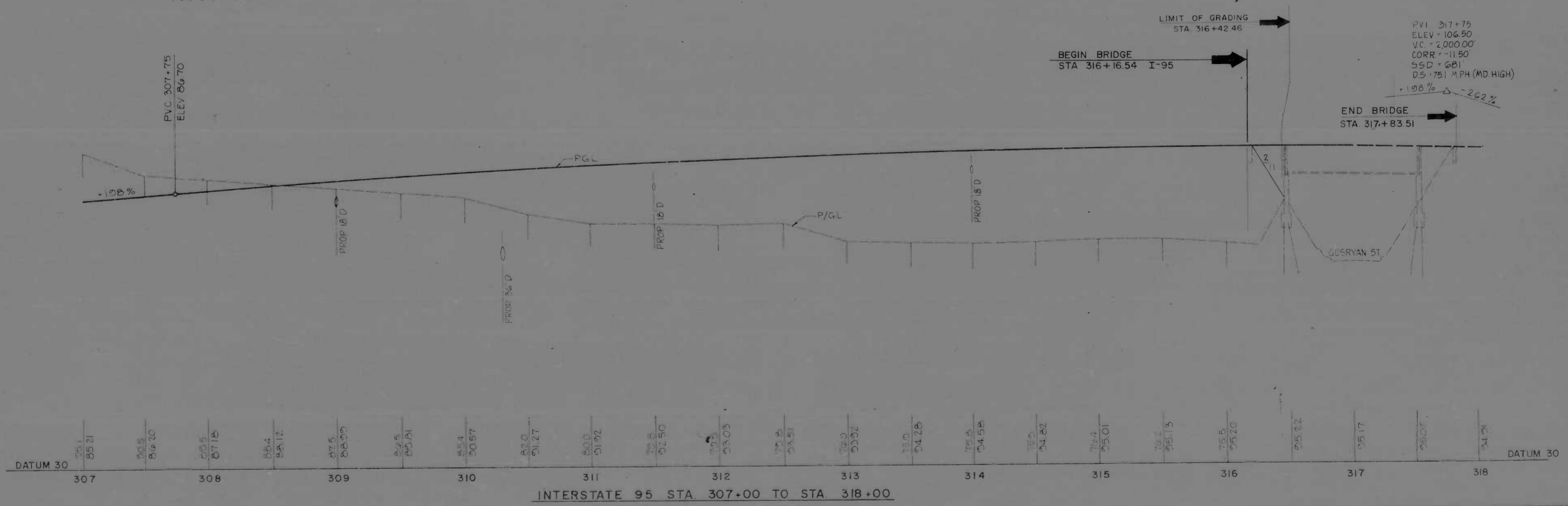
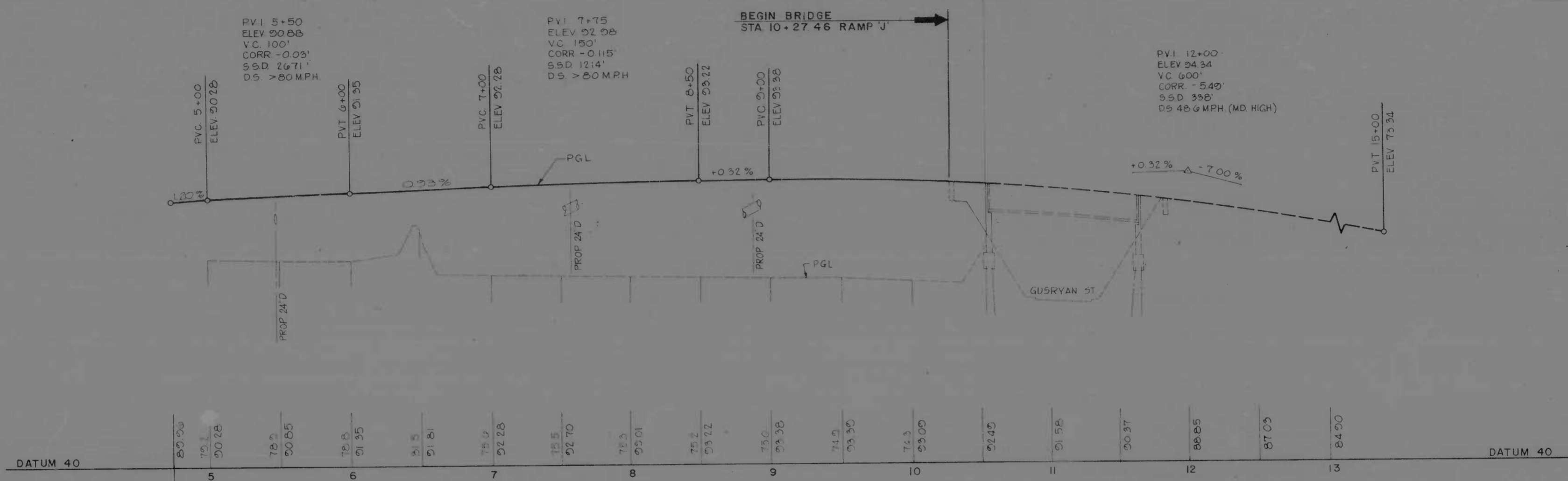
SCALE: 1" = 40' DATE: MAY 11, 1973



REVISIONS REVISION 01-15-74	CONSULTANT KNOERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 381 N. CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: J.W.S. CHECKED BY: J.W.S. T.A.P. NO. I-95-4(39)34 S.R.C. NO. BC-246-36-815 BALTO. CITY NO. 1998
SCALE: HORIZ. 1"=40' VERT. 1"=10' DATE: MAY 11, 1973		SHEET NO. (119) P-6 OF P-24	

100 BALTIMORE 11/19/98

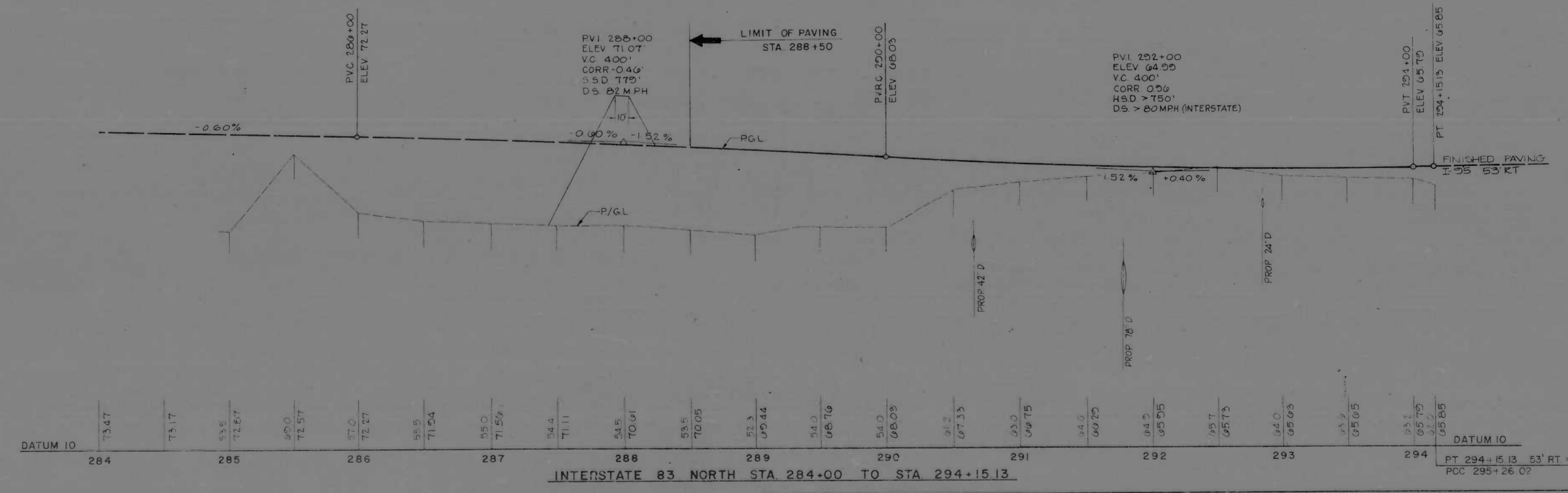
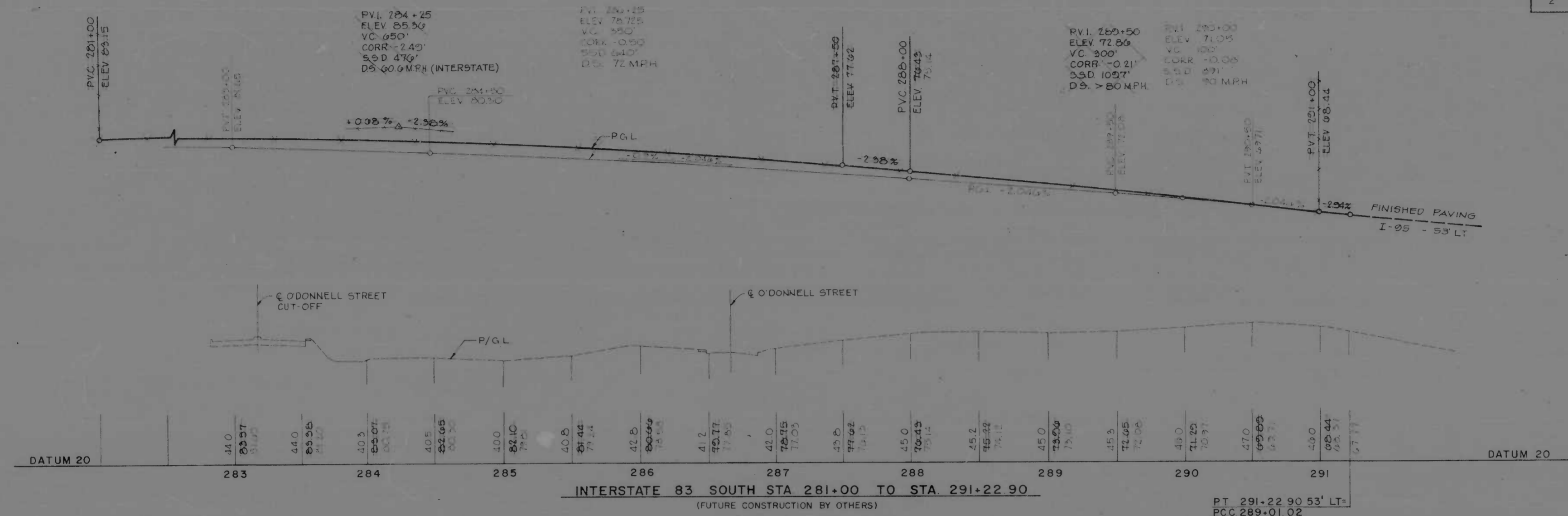
REV.	DATE	BY	CHK.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-7	(119)	P-24



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNORRLE, BERBER, STONE & ASSOC., INC. AND MATZ, CURRIG & ASSOC., INC. CONSULTING ENGINEERS 342 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: JWS CHECKED BY: JWS DES. BY: TEL CHK. BY: JLS F.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
SCALE: HORIZ 1"=40', VERT 1"=10'		DATE: MAY 11, 1993	SHEET NO. (119) P-7 of P-24

MD BALTIMORE 12-28-74

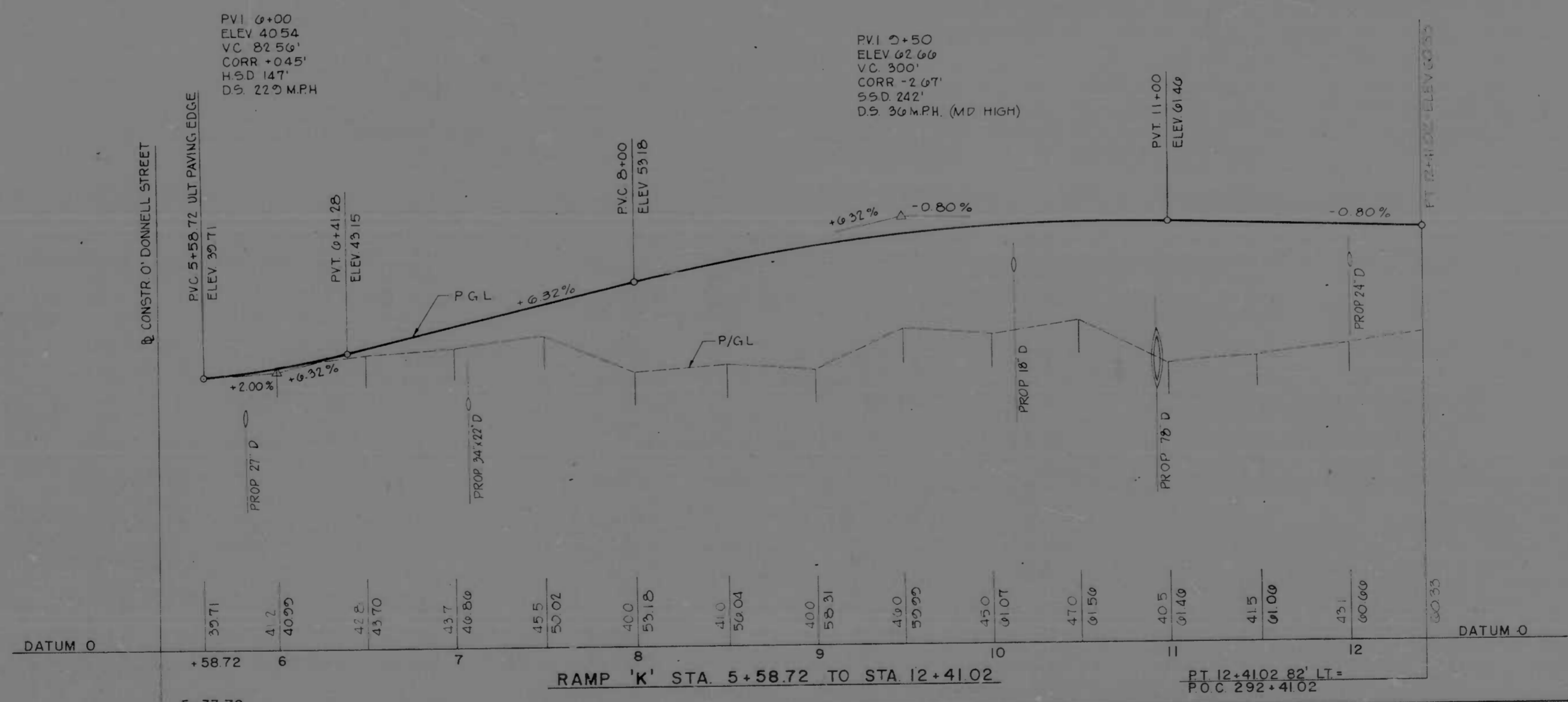
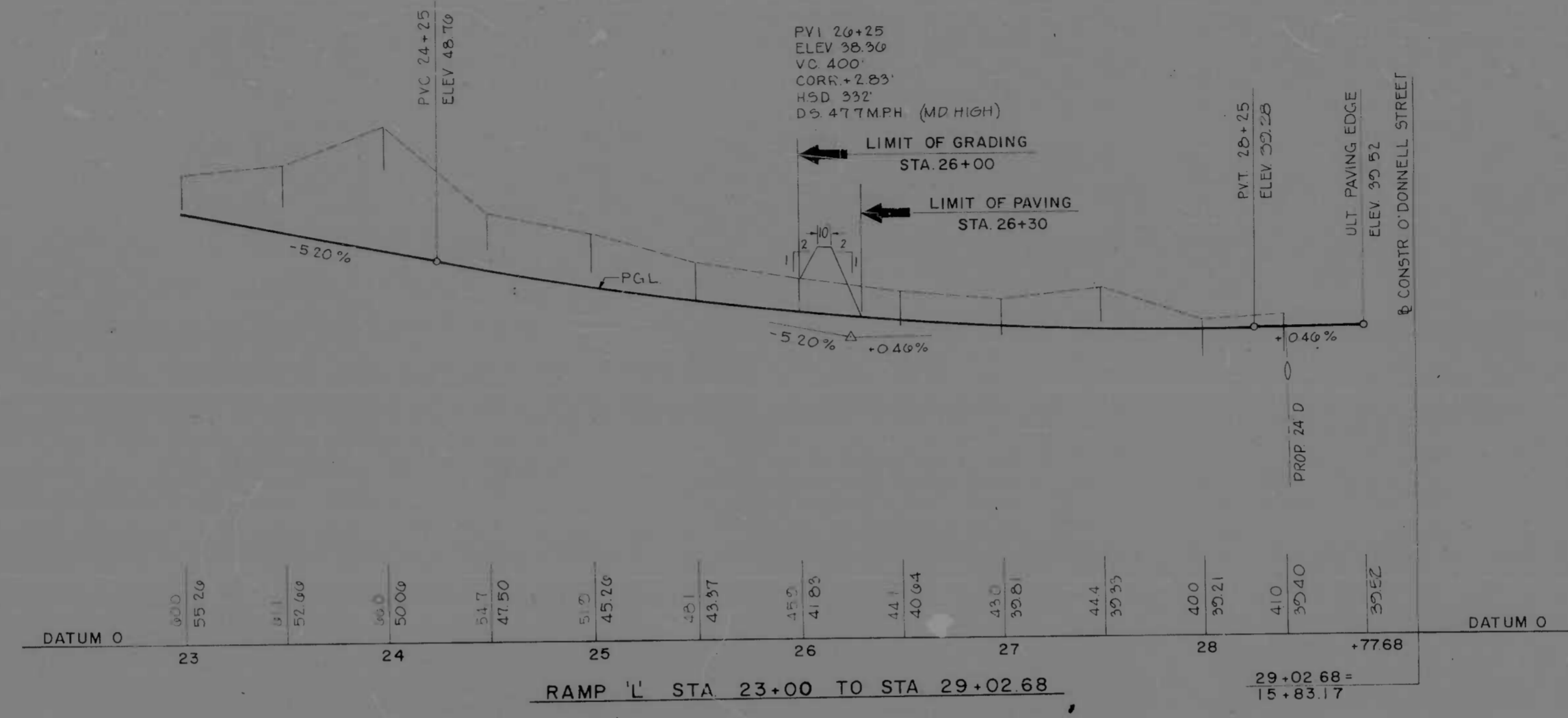
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	P-8	(119)



REVISIONS 1. PERMIT DRAWING 3-7-74	CONSULTANT KIMBLE, BENDER, STONE & ASSOC., INC. AND MATZ, BIRNIE & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY J.W.S. TRACED BY J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. B.C. 2-45-36-815 BALTO. CITY NO. 1998	DES. BY J.E.L. CHK. BY J.L.D. SHEET NO. (119) P-8 of P-24
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SCALE: HORIZ. 1" = 40', VERT. 1" = 10' DATE: MAY 11, 1973

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	P-9	(119) P-24



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	AMERKLE, BERMAN, STONE & ASSOC., INC. AND MATZ, CHING & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY J.W.S. TRACED BY J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
		SCALE: HORIZ 1"=40', VERT 1"=10'	DES. BY I.E.L. CHK BY J.L.C. SHEET NO. (119) P-9 OF P-24
		DATE MAY 11, 1973	

EARTHWORK SUMMARY

FED. ROAD DIST. NO. STATE DIST. NO. PROJECT NO. SHEET NO.
2 MD 198-433-3 2

STATION		LOCATION	CUT	EMBANKMENT	UNSUITABLE MATERIAL		CLASS 5	CUT		REMARKS
FROM	TO				CUT	FILL		ADJUSTED	DENSIFIED	
PLAN SHEET P-1										
107	119+50	O'DONNELL ST. CUT-OFF	927	602				927	881	
282+45	286+35	BOSTON ST.	2,893	2,983			2,893	2,768		
9+70	17+92	O'DONNELL ST.	967				967	919		
5+58	7+00	RAMP 'K'	350	195			350	333		INCLUDES RAMP 'K' FREE RIGHT TURN
28+00	28+85	RAMP 'L'	2,837	216			2,837	2,695		INCLUDES RAMP 'L' FREE RIGHT TURN
10+00	12+01	CHANNEL RELOC.		556						
PLAN SHEET P-2										
119+50	123+80	O'DONNELL ST. CUT-OFF	487	1			487	462		
PLAN SHEET P-3										
287+35	294+15	T-83 NORTH	357	14,867	120	717	37	75		6" ROOT MAT (287+50 TO 292+00) ALT.
287+50	298+00	I-95 (N.B.R. & S.B.R.)	1,706	57,214	136	1,397	1,570	1,492		6" ROOT MAT (288+00 TO 294+00) ALT.
7+00	12+81	RAMP 'K'	1,292	13,881			1,292	1,227		
PLAN SHEET P-4										
298+00	309+00	I-95 (N.B.R. & S.B.R.)	140,111	8,021	1,104	1,196	139,007	132,057		6" ROOT MAT (299+00 TO 299+00) ALT.
PLAN SHEET P-5										
109+00	113+00	I-95 (N.B.R. & S.B.R.)	289	26,733			289	275		
313+00	316+421	I-95 (N.B.R. & S.B.R.)		86,608						INCLUDES RAMP 'L' STA. 313+00 TO 10+50
TOTAL			152,216	163,169	1,560	3,202	1,176	170,656	163,124	

NOTE: DENSIFICATION FACTOR OF 95% APPLIED TO ALL CUTS.

CLASS 2 EXCAVATION

FROM DRAINAGE QUANTITY SHEET

TOTAL CLASS 2 EXCAVATION 7,523 C.Y.
LOSS DUE TO HANDLING AND DENSIFICATION (5%) 126 C.Y.
TOTAL CLASS 2 EXCAVATION AVAILABLE FOR EMBANKMENT 2,897 C.Y.

CLASS 3 EXCAVATION

FROM STRUCTURE QUANTITY SHEET

TOTAL CLASS 3 EXCAVATION 19,600 C.Y.
LOSS DUE TO HANDLING AND DENSIFICATION (5%) 1,960 C.Y.
BACKFILL RETAINING - ALL "B" 18,640 C.Y.
TOTAL CLASS 3 EXCAVATION AVAILABLE FOR EMBANKMENT 1,740 C.Y.

CLASS 5 EXCAVATION

FROM GRADING TABLE

TOTAL CLASS 5 EXCAVATION 1,176 C.Y.

CLASS I-A EXCAVATION

FROM STA. 101+50 TO STA. 104+50 RT. & LT.

TOTAL CLASS I-A EXCAVATION 3,200 C.Y.

LANDSCAPING QUANTITIES			
LOCATION	2" TOPSOIL SEEDING & MULCHING	LOCATION	2" TOPSOIL SEEDING & MULCHING
MAINLINE		14+50 TO 18+60	1,357 S.Y.
288+00 TO 299+50	11,771 S.Y.		
300+00 TO 316+00	9,462 S.Y.		
T-83 NORTH		TOTAL	28,590 S.Y.
287+50 TO 294+15	3,413 S.Y.	PLUS 10%	3,855 S.Y.
RAMP 'K'		TOTAL	42,403 S.Y.
5+56 TO 12+81	4,698 S.Y.	TOPSOIL AVAILABLE	21,000 S.Y.
RAMP 'L'		TOPSOIL REQUIRED	17,403 S.Y.
26+50 TO 28+50	1,234 S.Y.	PROP. QUANTITY	19,600 S.Y.
O'DONNELL ST.		LOCATION	4" TOPSOIL SEEDING & MULCHING
10+00 TO 17+50	178 S.Y.	BOSTON ST.	
O'DONNELL ST. CUT-OFF		283+50 TO 286+50	3,286 S.Y.
107+00 TO 124+00	751 S.Y.	TOTAL	1,286 S.Y.
BOSTON ST.		PLUS 10%	129 S.Y.
282+50 TO 286+50	3,892 S.Y.	TOTAL	1,415 S.Y.
CHANNEL RELOC.		PROP. QUANTITY	1,435 S.Y.
10+00 TO 12+00	1,302 S.Y.		

TOPSOIL ANALYSIS

TOPSOIL REQUIRED

2" TOPSOIL (42,400 x 1/18) 2,356 C.Y.
4" TOPSOIL (1,425 x 1/9) 156 C.Y.
TOTAL TOPSOIL REQUIRED 2,514 C.Y.
TOPSOIL AVAILABLE IN CUT (STA. 299+00 TO STA. 309+00 I-95 RT.) 1,290 C.Y.
TOPSOIL REQUIRED 1,224 C.Y.

CLASS 1 EXCAVATION

CUT 152,216 C.Y.
PLUS ROOT MAT REMOVED UNDER FILL 3,302 C.Y.
TOTAL CLASS 1 EXCAVATION 155,518 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT
TOTAL CLASS 1 EXCAVATION 155,518 C.Y.
MINUS
ROOT MAT REMOVED IN CUT 1,540 C.Y.
ROOT MAT REMOVED UNDER FILL 3,302 C.Y.
TOPSOIL REMOVED IN CUT 1,280 C.Y.
CUT ADJUSTED 149,376 C.Y.
CUT DENSIFIED 141,907 C.Y.
PLUS CLASS 2 EXCAVATION 7,523 C.Y.
CLASS 3 EXCAVATION 1,740 C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT 145,568 C.Y.

EMBANKMENT REQUIRED

EMBANKMENT 163,169 C.Y.
REFILL FOR ROOT MAT REMOVED UNDER FILL 3,302 C.Y.
EMBANKMENT REQUIRED 166,471 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT 145,568 C.Y.
BORROW REQ'D 20,927 C.Y.

PROPOSED QUANTITIES

CLASS 1 EXCAVATION 155,500 C.Y.
CLASS 2 EXCAVATION 3,200 C.Y.
CLASS 3 EXCAVATION 2,550 C.Y.
CLASS 5 EXCAVATION 19,600 C.Y.
CLASS 5 EXCAVATION 1,200 C.Y.
BORROW EXCAVATION 21,000 C.Y.
SELECT BORROW EXCAVATION 3,200 C.Y.
CONTINGENT BORROW EXCAVATION 1,000 C.Y.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	SHRIMP, BRADY, SMITH & ASSOC., INC. 127 WEST BALTIMORE STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: P.Z. CHECKED BY: F.Z. F.A.P. NO. 1-95-433-34 S.R.C. NO. RC 246-36-815 BALTO. UTILS. NO. 1998
		SCALE: NONE	DATE: MAY 11, 1973
			DES. BY: T.E.L. CHK. BY: J.L.C. SHEET NO. (119) Q-1 OF Q-15

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	F.B. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(3)34	Q-10	(119) Q-15

STATION	UTILITIES																				REMARKS			
	OVERHEAD SIGN SUPPORT STRUCTURE	SPECIAL SIGN SUPPORTS	3" X 5.7 STEEL BEAM	4" X 13.0 STEEL BEAM	6" X 15.5 STEEL BEAM	6" X 20.0 STEEL BEAM	SIGN LIGHTING SUPPORT STRUCTURE	TEMPORARY PORTABLE SUPPORT	CONCRETE MARKERS FOR CABLE, DUCT, & SPLICES	HIGH MAST LIGHTING STANDARDS	TRENCHING FOR DIRECT BURIAL CABLE	WIRING FOR EASTERN AVE UNDERPASS	1/2" GROUND WIRE	1/4" INSULATED WIRE	2" C - 1/4" - 1 1/4" CABLE DUCT	4" C - 1/4" - 1 1/4" CABLE DUCT	4" C - 1/2" - 1 1/2" CABLE DUCT	GROUND ROD	CONTROL AND DISTRIBUTION EQUIPMENT	HIGH MAST LUMINAIRES		UNDERPASS LUMINAIRES	GLARE SHIELDS	ELECTRICAL INSTALLATION AT HIGH MAST LIGHTING STANDARDS
	EA	EA	L.F.	L.F.	L.F.	L.F.	EA	EA	EA	EA	L.F.	EA	L.F.	L.F.	L.F.	L.F.	L.F.	EA	EA	EA	EA	EA	EA	
PLAN SHEET 0-2																								
8-10 RAMP "A"																								
PLAN SHEET 31-3																								
180+00 TO 203+00			158.50	19.00	112.00	56.00		27																
118+50 L.A.	1																							SIGN NO. 4 C-1
17+10 L.A.	1																							SIGN NO. 11 C-1
195+83 L.	1																							SIGN NO. 16 C-1
200+25 L.	1																							SIGN NO. 17 C-1
PLAN SHEET 52-4																								
103+00 TO 127+00			136.00					15																
112+75	1																							SPECIAL SIGN SUPPORTS 3x3x1/2x1/2
120+75	1																							SIGN NO. 18 C-1
																								SIGN NO. 19 C-1
PLAN SHEET 51-5																								
127+00 TO 143+00			489.75					3																
14+00 K&E ST	1																							SIGN NO. 20 C-1
25+25 K&E ST	1																							SIGN NO. 22 C-1
0+10 RAMP "A"	1																							SIGN NO. 21 C-1
7+22 RAMP "B"	1																							SIGN NO. 23 C-1
PLAN SHEET 1-1																								
180+00 TO 203+00											2800		1100		1500	1700								
118+50 L.A.	1																							SIGN NO. 8
181+10 BOSTON ST L.A.	1																							140 FT. IN HEIGHT
17+10 L.A.	1																							SIGN NO. 31
288+10 1815 ST	1																							140 FT. IN HEIGHT
191+07 E.	1																							100 FT. IN HEIGHT
295+93 L.L.	1																							SIGN NO. 14
296+17 E.	1																							100 FT. IN HEIGHT
100+25 188	1																							SIGN NO. 17
101+18 L.	1																							100 FT. IN HEIGHT
PLAN SHEET 2-2																								
103+00 TO 127+00											2700		1700	1000		900	1400							
106+24 E.	1																							100 FT. IN HEIGHT
111+70	1																							100 FT. IN HEIGHT
112+75	1																							SIGN NO. 16
116+35	1																							115 FT. IN HEIGHT
120+75 R1	1																							SIGN NO. 15
121+31 E.	1																							111 FT. IN HEIGHT
124+90 RAMP "B"	1																							100 FT. IN HEIGHT
128+20	1																							110 FT. IN HEIGHT
TOTAL	10	1	484.25	19.00	112.00	56.00		33			3000		4700	7000		2100	1700	4	1	68	16			

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY S.G.M. TRACED BY S.G.M. F.B. NO. 1-95-4(3)34 S.R.C. NO. 248-36-85 BALTO. CITY NO. 1998
		SCALE: NONE	DES. BY D.G.M. CHK. BY J.L.C. SHEET NO. 11 91 Q-10 IN Q-15
		DATE: MAY 11, 1973	

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	Q-1	(119)
			Q-1	Q-15

STATION	UTILITIES													REMARKS
	STD. SAN MANHOLE 8 1/2" WALL VERTICAL DEPTH	STD. SAN MANHOLE 13" WALL VERTICAL DEPTH	TYPE A DROP CONNECTION	TYPE B DROP CONNECTION	ADJUST EXISTING MANHOLES	TYPE M DUCT SECTION 8.5" I.D. & 3.2" O.P.V.C.	TYPE Q DUCT SECTION 3.5" I.D. P.V.C.	TYPE X DUCT SECTION 2.4" I.D. P.V.C.	TYPE Y DUCT SECTION 1.2" I.D. P.V.C.	TYPE G MANHOLE MECH. ELEC. ME-2	SPECIAL MANHOLE MECH. ELEC. ME-1	20" DUCTILE IRON PIPE AND FITTINGS		
	L.F.	L.F.	EA	EA	EA	L.F.	L.F.	L.F.	L.F.	EA	EA	L.F.		
PLAN SHEET Q-2														
081+30 & CONSTR. 1-95	18	16		1	1									
17+30 TO 18+00 L&C/CR	8.5	23												
PLAN SHEET Q-3														
0+15 TO 3+11 LT. ACC. RL	8.5	1												
13+13 TO 17+41.0 CON. ST.														
13+48 TO 16+50 INTDKN. ST.	8.5	19		1										
13+27 TO 17+41.0 CON. ST.						305	23	8		1		157		
18+41 TO 18+00 L&C/CR														
PLAN SHEET P-3														
111+96 & CONSTR. 1-95						275								
TOTAL THIS SHEET	43.5	59	1	1	1	305	275	33	8	1	1	157		

REVISIONS	CONSULTANT J. L. BOWEN, ESTIM & ASSOC., INC. AND KURTZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 941 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		SCALE: NONE	DATE: MAY 11, 1973
			DRAWN BY: J.E.T. TRACED BY: J.E.T. F.A.P. NO. I-95-4(39)34 S.R.C. NO. RC 246-36-6E BALTO. CITY NO. 1536
			DES. BY: DGM CHK. BY: JLC SHEET NO. (119) Q-11 → Q-15

SUMMARY OF QUANTITIES

10. ROAD DIST. NO.	STATE	F.P.C. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(39)34	0-12	Q-15

STATION	UTILITIES														REMARKS
	8" EXTRA STRENGTH CLAY PIPE	10" EXTRA STRENGTH CLAY PIPE	6" CAST IRON PIPE AND FITTINGS	10" DUCTILE IRON PIPE AND FITTINGS	20" CAST IRON PIPE AND FITTINGS	REMOVAL OF 10" WATER MAIN	REMOVAL OF 20" WATER MAIN	6" FIRE HYDRANT AND VALVE	6" FIRE HYDRANT	REMOVAL OF FIRE HYDRANT AND VALVE	REMOVAL OF FIRE HYDRANT	DEWATERING VALVE AND VAULT	5" TO 8" MANHOLE AND LUGS MINIMUM DEPTH		
	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA	EA	EA	EA	EA	EA	EA	
PLAN SHEET Q-1															
PLAN SHEET Q-2															
PLAN SHEET Q-3															
PLAN SHEET Q-4															
PLAN SHEET Q-5															
PLAN SHEET Q-6															
PLAN SHEET Q-7															
PLAN SHEET Q-8															
PLAN SHEET Q-9															
PLAN SHEET Q-10															
PLAN SHEET Q-11															
PLAN SHEET Q-12															
PLAN SHEET Q-13															
PLAN SHEET Q-14															
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PLAN SHEET Q-41															
PLAN SHEET Q-42															
PLAN SHEET Q-43															
PLAN SHEET Q-44															
PLAN SHEET Q-45															
PLAN SHEET Q-46															
PLAN SHEET Q-47															
PLAN SHEET Q-48															
PLAN SHEET Q-49															
PLAN SHEET Q-50															
TOTAL THIS SHEET	98	1104	12	286	88		240		232						

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KENDERL BENDER STONE & ASSOC. INC. MAY 1973	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	
	WATZ, EPILUS & ASSOC. INC. CONSULTING ENGINEERS 141 N. CALVERT STREET BALTIMORE, MARYLAND 21202	SCALE: NONE	DATE: MAY 11, 1973
		DRAWN BY: J.E.T.	DES. BY: T.E.L.
		TRACED BY: J.E.T.	CHK. BY: J.L.C.
		F.P.C. NO. 1-95-4(39)34	SHEET NO. (115)
		X.P.C. NO. BC 46-36-815	Q-12 of Q-15
		BALTO. CITY NO. 1998	

SUMMARY OF QUANTITIES

NO. APP. (19)	STATE	JOB NO. (19)	PROJECT NO. (19)
2	MD	I-95-4(39)34	C-13

ITEM NO	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	CONTINGENT QUANTITY	PROPOSAL QUANTITY	FINAL QUANTITY
PRELIMINARY ITEMS						
101	CLEARING & GRUBBING	L.S.	LUMP SUM		LUMP SUM	
102	DEMOLITION & DISPOSAL OF EXISTING BUILDINGS	L.S.	LUMP SUM		LUMP SUM	
103	ENGINEERS FACILITIES	L.S.	LUMP SUM		LUMP SUM	
104	MAINTENANCE OF TRAFFIC	L.S.	LUMP SUM		LUMP SUM	
105	CONSTRUCTION STAKE OUT	L.S.	LUMP SUM		LUMP SUM	
106	MOBILIZATION	L.S.	LUMP SUM		LUMP SUM	
107	ON-THE-JOB TRAINING	HR	8,000		4,000	
GRADING ITEMS						
201	CLASS 1 EXCAVATION	C.Y.	155,518		155,518	
202	CLASS 1-8 EXCAVATION	C.Y.		3,200	3,200	
203	CLASS 2 EXCAVATION	C.Y.	1,523		2,520	
204	CLASS 3 EXCAVATION	C.Y.	1,126		1,200	
205	BORROW EXCAVATION	C.Y.	19,763		20,000	
206	CONTINGENT BORROW EXCAVATION	C.Y.		1,000	1,000	
207	SELECT BORROW EXCAVATION	C.Y.		1,200	1,200	
208	TEST PIT EXCAVATION	C.Y.		25	25	
209	REMOVE EXISTING HIGHWAY	C.Y.		10	10	
DRAINAGE ITEMS						
301	CLASS 3 EXCAVATION FOR INCIDENTAL CONSTRUCTION	C.Y.		500	500	
302	TRIMMING EXISTING DITCHES	L.F.	150		200	
303	SELECTED BACKFILL USING #4 AGGREGATE	C.Y.		500	500	
304	SELECTED BACKFILL USING CRUSHER RUN	C.Y.		500	500	
305	REMOVE EXIST. DRAINAGE STRUCTURE @ STA. 15+40 O'DONNELL ST	L.S.	LUMP SUM		LUMP SUM	
306	REMOVE EXIST. DRAINAGE STRUCTURE @ STA. 291+20 I-95	L.S.	LUMP SUM		LUMP SUM	
307	12IN. R.C. PIPE, CL. 3	L.F.	74		78	
308	15IN. R.C. PIPE, CL. 3	L.F.	108		108	
309	18IN. R.C. PIPE, CL. 3	L.F.	842		842	
310	24IN. R.C. PIPE, CL. 3	L.F.	7,885		7,484	
311	27IN. R.C. PIPE, CL. 3	L.F.	142		142	
312	30IN. R.C. PIPE, CL. 3	L.F.	849		849	
313	36IN. R.C. PIPE, CL. 3	L.F.	529		529	
314	42IN. R.C. PIPE, CL. 3	L.F.	372		372	
315	48IN. R.C. PIPE, CL. 3	L.F.	576		576	
316	72IN. R.C. PIPE, CL. 4, INCLUDING TWO 72IN. x 12IN. FITTINGS	L.F.	840		844	
317	10" HELLIPICAL R.C. PIPE, CL. 4	L.F.	97		97	
318	16" HELLIPICAL R.C. PIPE, CL. 4	L.F.	234		234	
319	54" PIPE CONNECTION BRICK CURVE	EA	1		1	
320	REMOVAL OF OLD PIPE COVERTS, ANY SIZE	L.F.	725		525	
321	STD. B-78 MANHOLE	EA	2		2	
322	STD. TYPE 10' ENDWALL FOR 18IN. PIPE	EA	1		1	
323	STD. TYPE 10' ENDWALL FOR 36IN. PIPE	EA	1		1	
324	STD. TYPE 10' ENDWALL FOR 42IN. PIPE	EA	1		1	

ITEM NO	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	CONTINGENT QUANTITY	PROPOSAL QUANTITY	FINAL QUANTITY
DRAINAGE ITEMS (CONT.)						
325	STD. CONCRETE END SECTION FOR 18" R.C. PIPE	EA	1		1	
326	STD. CONCRETE END SECTION FOR 36" R.C. PIPE	EA	1		1	
327	STD. TYPE 10' INLET DOUBLE GRATE, MIN. DEPTH	EA	8		8	
328	STD. TYPE 10' INLET DOUBLE GRATE, VERT. DEPTH	L.F.	4.3		4.3	
329	STD. TYPE 10' INLET, SINGLE GRATE, MIN. DEPTH	EA	11		11	
330	STD. TYPE 10' INLET, SINGLE GRATE, VERT. DEPTH	L.F.	3		10	
331	STD. TYPE 10' INLET, DOUBLE GRATE TANDEN, MIN. DEPTH	EA	27		27	
332	STD. TYPE 10' INLET, DOUBLE GRATE TANDEN, VERT. DEPTH	L.F.	27.1		28	
333	STD. TYPE 10' COMBINATION INLET, SINGLE GRATE, MIN. DEPTH	EA	2		2	
334	STD. TYPE 10' COMBINATION INLET, SINGLE GRATE, VERT. DEPTH	L.F.	3.2		4	
335	STD. TYPE 10' COMBINATION INLET, DOUBLE GRATE TANDEN, MIN. DEPTH	EA	8		8	
336	STD. TYPE 10' COMBINATION INLET, DOUBLE GRATE TANDEN, VERT. DEPTH	L.F.	17.8		18	
337	SMO. MANHOLE, 30 IN. COVER, MIN. DEPTH	EA	1		1	
338	SMO. MANHOLE, VERTICAL DEPTH	L.F.	19.8		20	
339	STD. STORM WER. MANHOLE, 30" COVER, MIN. DEPTH	EA	12		12	
340	STD. STORM WER. MANHOLE, VERTICAL DEPTH	L.F.	69.7		70	
341	78IN. x 42IN. BELLMOUTH	L.S.	LUMP SUM		LUMP SUM	
342	78IN. x 48IN. BELLMOUTH	L.S.	LUMP SUM		LUMP SUM	
343	CLASS 3-3 CONCRETE FOR MISCELLANEOUS STRUCTURES	C.Y.	3.5		5	
344	CLASS 3-3 CONCRETE FOR MISCELLANEOUS STRUCTURES	C.Y.	235		235	
345	UNBURNED BRICK PAVING FOR MISCELLANEOUS STRUCTURES	C.Y.		10	10	
346	4IN. PERFORATED CIRCULAR PIPE UNDERDRAIN	L.F.	4,924		3,000	
347	6IN. PERFORATED CIRCULAR PIPE UNDERDRAIN	L.F.		200	200	
348	8IN. PERFORATED CIRCULAR PIPE UNDERDRAIN	L.F.		200	200	
349	4IN. CIRCULAR PIPE UNDERDRAIN BULLETS	L.F.	300		350	
350	6IN. CIRCULAR PIPE UNDERDRAIN BULLETS	L.F.		50	50	
351	AGGREGATE BACKFILL FOR UNDERDRAINS	C.Y.		10	10	
352	TEMPORARY SLOPE DRAIN	L.F.		300	300	
353	12IN. CONCRETE CUTTER	L.S.	487		700	
354	3IN. HYDRAULIC CONCRETE CUTTER	L.S.	487		500	
355	9IN. STONE FILLED WIRE MATTRESS	C.Y.	250		240	
356	12IN. STONE FILLED WIRE MATTRESS	C.Y.	150		150	

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	RAEL BRIDGEMAN ASSOC. INC. 1000 W. BALTIMORE ST. BALTIMORE, MD 21201	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET			
		SCALE NONE	DATE MAY 11, 1973	DRAWN BY S.G.M. TRACED BY S.G.M.	DES. BY T.E.L. CHK. BY J.L.C.
				F.A.F. NO. I-95-4(39)34 S.P.C. NO. BC 246.36-815 BALTO. CITY NO. 199B	SHEET NO. (119) Q-13 OF 2-18

SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	CONTINGENT QUANTITY	PROPOSAL QUANTITY	FINAL QUANTITY
UTILITY ITEMS						
801	REMOVAL OF EXISTING RAILROAD TRACK	L.F.	920		920	
802	RAILROAD TRACK RELOCATION	L.F.	887		890	
803	SIGN PANELS-EXTRUDED ALUMINUM	S.F.	2778		2778	
804	SIGN PANELS-SHEET ALUMINUM	S.F.	1107		1107	
805	OVERHEAD SIGN SUPPORT STRUCTURE NO. 4	L.S.	LUMP SUM		LUMP SUM	
806	OVERHEAD SIGN SUPPORT STRUCTURE NO. 11	L.S.	LUMP SUM		LUMP SUM	
807	OVERHEAD SIGN SUPPORT STRUCTURE NO. 16	L.S.	LUMP SUM		LUMP SUM	
808	OVERHEAD SIGN SUPPORT STRUCTURE NO. 17	L.S.	LUMP SUM		LUMP SUM	
809	OVERHEAD SIGN SUPPORT STRUCTURE NO. 18	L.S.	LUMP SUM		LUMP SUM	
810	OVERHEAD SIGN SUPPORT STRUCTURE NO. 19	L.S.	LUMP SUM		LUMP SUM	
811	OVERHEAD SIGN SUPPORT STRUCTURE NO. 20	L.S.	LUMP SUM		LUMP SUM	
812	OVERHEAD SIGN SUPPORT STRUCTURE NO. 21	L.S.	LUMP SUM		LUMP SUM	
813	OVERHEAD SIGN SUPPORT STRUCTURE NO. 22	L.S.	LUMP SUM		LUMP SUM	
814	OVERHEAD SIGN SUPPORT STRUCTURE NO. 23	L.S.	LUMP SUM		LUMP SUM	
815	SPECIAL SIGN SUPPORT	L.S.	LUMP SUM		LUMP SUM	
816	3IN. I S. 2 STEEL BEAMS	L.F.	985		985	
817	4IN. WF 13.0 STEEL BEAMS	L.F.	19		19	
818	6IN. WF 15.3 STEEL BEAMS	L.F.	112		112	
819	6IN. WF 20.0 STEEL BEAMS	L.F.	56		56	
820	SIGN LIGHTING SYSTEM STRUCTURE NO. 4	L.S.	LUMP SUM		LUMP SUM	
821	SIGN LIGHTING SYSTEM STRUCTURE NO. 11	L.S.	LUMP SUM		LUMP SUM	
822	SIGN LIGHTING SYSTEM STRUCTURE NO. 16	L.S.	LUMP SUM		LUMP SUM	
823	SIGN LIGHTING SYSTEM STRUCTURE NO. 17	L.S.	LUMP SUM		LUMP SUM	
824	SIGN LIGHTING SYSTEM STRUCTURE NO. 18	L.S.	LUMP SUM		LUMP SUM	
825	SIGN LIGHTING SYSTEM STRUCTURE NO. 19	L.S.	LUMP SUM		LUMP SUM	
826	SIGN LIGHTING SYSTEM STRUCTURE NO. 20	L.S.	LUMP SUM		LUMP SUM	
827	SIGN LIGHTING SYSTEM STRUCTURE NO. 21	L.S.	LUMP SUM		LUMP SUM	
828	SIGN LIGHTING SYSTEM STRUCTURE NO. 22	L.S.	LUMP SUM		LUMP SUM	
829	SIGN LIGHTING SYSTEM STRUCTURE NO. 23	L.S.	LUMP SUM		LUMP SUM	
830	OBJECT MARKERS	EA.	10		10	
831	DELINATORS TYPE 1	EA.	3		3	
832	DELINATORS TYPE 2	EA.	64		64	
833	DELINATORS TYPE 3	EA.	18		18	
834	TEMPORARY PORTABLE SUPPORTS	EA.	25		25	
835	MAST ARM TRAFFIC SIGNAL SUPPORTS	EA.	5		5	
836	VEHICLE DETECTORS	EA.	27		27	
837	ELECTRICAL HANDBOXES	EA.	54		54	
838	TRANSIT AND TRAFFIC MANHOLES (APP. VERT. HFT.)	EA.	8		8	
839	2IN. GALVANIZED STEEL CONDUIT	L.F.	2114		2114	
840	4IN. GALVANIZED STEEL CONDUIT	L.F.	2641		2641	
841	3IN. TRANSIT AND TRAFFIC DUCT (NON-METALLIC P.V.C.)	L.F.	2529		2529	
842	CONCRETE MARKERS FOR CABLE DUCT SPLICES	EA.	40		40	
843	100 FT. HIGH MAST LIGHTING STANDARD	EA.	10		10	
844	110 FT. HIGH MAST LIGHTING STANDARD	EA.	5		5	
845	115 FT. HIGH MAST LIGHTING STANDARD	EA.	1		1	
846	130 FT. HIGH MAST LIGHTING STANDARD	EA.	1		1	
847	140 FT. HIGH MAST LIGHTING STANDARD	EA.	2		2	
848	TRENCHING FOR STREET BURIAL CABLE	L.F.	8800		8800	
849	WIRING FOR EASTERN AVENUE UNDERPASS	L.S.	LUMP SUM		LUMP SUM	
850	NO. 4 GROUND WIRE	L.F.	11700		11700	
851	NO. 4 INSULATED WIRE	L.F.	7400		7400	
852	2/C NO. 4 - 1 1/8 IN. CABLE DUCT	L.F.	800		800	
853	2/C NO. 4 - 1 1/8 IN. CABLE DUCT	L.F.	2500		2500	
854	2/C NO. 2 - 1 1/2 IN. CABLE DUCT	L.F.	3100		3100	
855	GROUND ROD	EA.	4		4	

ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	CONTINGENT QUANTITY	PROPOSAL QUANTITY	FINAL QUANTITY
UTILITY ITEMS (CONT.)						
856	CONTROL AND DISTRIBUTION EQUIPMENT	EA.	1		1	
857	HIGH MAST LUMINAIRES	EA.	102		102	
858	UNDERPASS LUMINAIRES	EA.	12		12	
859	GLARE SHIELDS	EA.	24		24	
860	ELECTRICAL INSTALLATION ON HIGH MAST LIGHTING STANDARDS	EA.	18		18	
861	ELECTRICAL DRIVE UNIT FOR LOWERING PLATFORM	EA.	2		2	
862	8IN. EXTRA STRENGTH CLAY PIPE	L.F.	102		102	
863	18IN. EXTRA STRENGTH CLAY PIPE	L.F.	1131		1131	
864	6IN. CAST IRON PIPE AND FITTINGS	L.F.	27		27	
865	20IN. CAST IRON PIPE AND FITTINGS	L.F.	88		88	
866	12IN. DUCTILE IRON PIPE AND FITTINGS	L.F.	740		740	
867	NOT USED					
868	NOT USED					
869	REMOVAL OF 10IN. WATER MAIN	L.F.	240		240	
870	CONTINGENT REMOVAL OF 10IN. WATER MAIN	L.F.		50	50	
871	REMOVAL OF 20IN. WATER MAIN	L.F.	90		90	
872	CONTINGENT REMOVAL OF 20IN. WATER MAIN	L.F.		50	50	
873	6IN. FIRE HYDRANT AND VALVE	EA.	1		1	
874	6IN. FIRE HYDRANT	EA.	1		1	
875	REMOVAL OF FIRE HYDRANT AND VALVE	EA.	2		2	
876	REMOVAL OF FIRE HYDRANT	EA.	1		1	
877	DEWATERING VALVE AND VAULT	L.S.	LUMP SUM		LUMP SUM	
878	CONTINGENT CLASS B CONCRETE FOR BUTTRESSES AND ANCHORS	C.Y.		7	7	
879	STD. SANITARY MANHOLE, 30IN. COVER, MIN. DEPTH	EA.	6		6	
880	STD. SANITARY MANHOLE 8 1/2IN. WALL, VERT. DEPTH	L.F.	54		54	
881	STD. SANITARY MANHOLE-12IN. WALL, VERT. DEPTH	L.F.	40		40	
882	STD. SANITARY MANHOLE 12 1/2IN. WALL, VERT. DEPTH	L.F.	22		22	
883	TYPE B SHOT CONNECTION (8")	EA.	1		1	
884	TYPE B SHOT CONNECTION (8")	EA.	1		1	
885	ADJUST EXISTING MANHOLE (SANITARY)	EA.	4		4	
886	TYPE IX DUCT SECTION, 2-1/2" I.D. AND 1-3/4" I.D. P.V.C.	L.F.	305		305	
887	TYPE O DUCT SECTION, 1-5/8" I.D. P.V.C.	L.F.	275		275	
888	TYPE X DUCT SECTION, 2-1/2" I.D. P.V.C.	L.F.	23		23	
889	TYPE Y DUCT SECTION, 1-3/4" I.D. P.V.C.	L.F.	16		16	
890	TYPE B MANHOLE, MECHANICAL ELECTRICAL (ME-2)	EA.	1		1	
891	SPECIAL MANHOLE, MECHANICAL ELECTRICAL (ME-1)	EA.	1		1	
892	PILE CONNECTION FOR ROUND STANDPIPE	EA.	2		2	
893	CONTINGENT EXCAVATION BELOW SUBGRADE	C.Y.		10	10	
894	CONTINGENT BORROW FOR TRENCH BACKFILL	C.Y.		10	10	
895	20" DUCTILE IRON PIPE AND FITTINGS	L.F.	157		157	
896	SUBSTATION FOUNDATION	EA.	1		1	

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	ANDERLE, BENTON, SINGER ASSOC., INC. 1627 OMAHA & 87TH, INC. CONSULTING ENGINEERS 341 S. CALHOUN STREET BALTIMORE, MARYLAND 21202	& INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET		DRAWN BY J.E.T. TRACED BY J.E.T.	DES. BY T.E.L. CHK. BY J.L.C.
		SCALE - NONE	DATE - MAY 11, 1973	F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998	SHEET NO. (119) Q-15 OF Q-15

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	T-95-4(39)34	Q-3	(19) Q-15

STATION	GRADING		R.C.P CLASS 4													DRAINAGE												REMARKS													
	CLASS 2 EXCAVATION	C.Y.	TRIMMING EXISTING DITCHES	REMOVE EXISTING DRAINAGE STRUCTURE STA. 15+30 O'DONNELL ST.	REMOVE EXISTING DRAINAGE STRUCTURE STA. 22+20 O'DONNELL ST.	12"	15"	18"	24"	27"	30"	36"	42"	48"	78" (INCL. 2.78' (2' 10") FITTINGS)	30" 15' E.R.C.P. CLASS 4	34" x 22" E.R.C.P. CLASS 4	36" PIPE CONNECTION BRICK CURVE	REMOVAL OF OLD PIPE SUBVERTS	ST.D. B. 78" HEADWALL	ST.D. TYPE 10" ENWALL FOR 18" PIPE	ST.D. TYPE 10" ENWALL FOR 36" PIPE	ST.D. TYPE 10" ENWALL FOR 42" PIPE	ST.D. CONC. END SECTION FOR 18" PIPE	ST.D. CONC. END SECTION FOR 42" PIPE	ST.D. TYPE 16" INLET DOUBLE GRATE TANGEM MINIMUM DEPTH	ST.D. TYPE 16" INLET DOUBLE GRATE TANGEM VERTICAL DEPTH		ST.D. TYPE 16" INLET SINGLE GRATE MINIMUM DEPTH	ST.D. TYPE 16" INLET SINGLE GRATE VERTICAL DEPTH	ST.D. TYPE 16" INLET DOUBLE GRATE TANGEM MINIMUM DEPTH	ST.D. TYPE 16" INLET DOUBLE GRATE TANGEM VERTICAL DEPTH									
			L.F.	LUMP SUM	LUMP SUM	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	E.A.	L.F.	E.A.	E.A.	E.A.	E.A.	E.A.	E.A.	E.A.	E.A.		E.A.	E.A.	L.F.	E.A.	L.F.	E.A.	L.F.						
18+25 CHANNEL (CONTD)																																									
22+25																																									
23+25																																									
23+59 TO 23+69		35																																							
180' N																																									
290+00 TO 295+00 T&BT																				180																					
291+20																																									
PLAN SHEET P-4																																									
298+25												158																													
300+00												90																													
295+25 TO 298+36												8															1	1													
302+00																																									
304+00 TO 305+00 L&RT																																									
306+50													68	90																											
307+50																																									
309+00													66	95																											
298+00 TO 298+25 LT.																			95																						
298+25 TO 299+98 RT.																																									
299+98 TO 301+25 RT.																																									
301+25 TO 305+50 RT.																																									
305+25 TO 305+50 RT.																																									
305+50 RT																																									
305+50 TO 306+50 RT.																																									
306+50 TO 307+50 RT.																																									
307+50 TO 309+00 RT.																																									
PLAN SHEET P-5																																									
309+79 RT.																																									
310+50 LT. & RT.		2																																							
311+50 LT. & RT.																																									
312+00 LT. & RT.																																									
313+00 X= 315+05 RT.																																									
309+00 X= 309+05 RT.																																									
309+79 X= 311+50 RT.																																									
311+50 L= 313+50 RT.																																									
TOTAL		2,325		150				24	108	862	2,484	142	849	654	570	629	97	234	1	725	2		1	1	1	1	2			8	4.1	11	4.5	37	33.1						

REVISIONS	CONSULTANT L. BENNETT, ENGINEER & ARCHT. INC. AND CITY ENGINEERING & SURVEYING 341 N. CALVERT STREET BALTIMORE, MARYLAND	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY J.E.T. TRACED BY J.E.T. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-B5 BALTO. CITY NO. 199B	DES. BY J.E.L. CHK. BY J.J.C. SHEET NO. 1191 Q-3 OF Q-15
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SCALE NONE DATE MAY 11, 1973

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	MD.	I-95-4(39)34	Q-4	(119)

STATION	DRAINAGE															REMARKS			
	ST 10 TYPE 'A' COMBINATION INLET - SINGLE GRATE MINIMUM DEPTH	ST 10 TYPE 'S' COMBINATION INLET - SINGLE GRATE VERTICAL DEPTH	ST 10 TYPE 'S' COMBINATION INLET - DOUBLE GRATE TANDEM MINIMUM DEPTH	ST 10 TYPE 'S' COMBINATION INLET - DOUBLE GRATE TANDEM VERTICAL DEPTH	DIMP MANHOLE, 20" COVER MINIMUM DEPTH	DDP MANHOLE, 30" COVER VERTICAL DEPTH	ST 10 STORM WATER MANHOLE, 30" COVER MINIMUM DEPTH	ST 10 STORM WATER MANHOLE, 30" COVER VERTICAL DEPTH	78"x42" BELLMOUTH	78"x42" BELLMOUTH	CLASS 'F' CONCRETE FOR MISC. STRUCTURES	CLASS 'B' CONCRETE FOR MISC. STRUCTURES	6" PERFORATED CERAMIC PIPE LONGITUDINAL UNDERDRAIN	6" CIRCULAR PIPE UNDERDRAIN OUTLETS	5" CONCRETE GUTTER		3" BITUMINOUS GUTTER	8" STONE FILLED WIRE MATTRESS	12" STONE FILLED WIRE MATTRESS
	EA	L.F.	EA	L.F.	EA	L.F.	EA	L.F.	LUMP QTY	LUMP SUM	C.Y.	C.Y.	L.F.	L.F.	S.Y.	S.Y.	C.Y.	C.Y.	
PLAN SHEET P-1																			
O'DONNELL ST. EXT. DR.																			
118 + 10 LT.				0.3															
118 + 53 LT.				2.0															
118 + 60 LT.				1.2															
O'DONNELL ST.																			
115 + 25 RT.				0.3															
116 + 28 LT.		1.2																	
BOSTON ST.																			
164 + 12 LT.																			
164 + 00 RT.				0.8															
164 + 17 LT.				2.3															
BUMP * L'YRES RT. TURN																			
1 + 23 S RT.																			
BUMP * L'YRES RT. TURN																			
11 + 26-24 RT.																			
BUMP * L'YRES RT. TURN																			
11 + 23 S RT.																			
STORM DRAIN CHANNEL																			
PLAN SHEET P-2																			
121 + 50 LT.																			
PLAN SHEET P-3																			
195																			
192 + 00 LT. & RT.																			
196 + 02 LT. & RT.																			
195+00 TO 196+02 RT.																			
196+02 TO 196+50 RT.																			
196+50 TO 198+25 RT.																			
BUMP * R.																			
8 + 00 RT.																			
10+32 TO 12+00 RT.																			
8+00 TO 12+00 RT.																			
TRAP DOWN																			
10+50 TO 15+00 RT.																			
11+00 TO 12+45 LT.																			
STORM DRAIN CH.																			
14+20 TO 14+65																			
14+65 TO 21+59																			

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	L. BENDER, STONE & ASSOC., INC. AND STETZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: J.E.T. TRACED BY: J.E.T. F.A.P. NO. I-95-4(39)34 S.R.C. NO. 95-246-36-815 BALTO. CITY NO. 1398
		SCALE: NONE	DES. BY: J.E.L. CHK. BY: J.L.C. SHEET NO. 119 Q-4 OF Q-11
		DATE: MAY 11, 1973	

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(39)34	Q-5	(119) Q-15

STATION	DRAINAGE															REMARKS			
	ST'D TYPE '15" COMBINAT. ON INLET, SINGLE GRATE MINIMUM DEPTH	ST'D TYPE '15" COMBINAT. ON INLET, SINGLE GRATE VERTICAL DEPTH	ST'D TYPE '15" COMBINAT. ON INLET, DOUBLE GRATE MINIMUM DEPTH	ST'D TYPE '15" COMBINAT. ON INLET, DOUBLE GRATE VERTICAL DEPTH	DRIP MANHOLE, 30" COVER MINIMUM DEPTH	DRIP MANHOLE, 30" COVER VERTICAL DEPTH	ST'D STORM WATER MANHOLE, 70" COVER MINIMUM DEPTH	ST'D STORM WATER MANHOLE, 30" COVER VERTICAL DEPTH	76"x42" BELLMOUTH	78"x48" BELLMOUTH	CLASS 'A' CONCRETE FOR MISC. STRUCTURES	CLASS 'B' CONCRETE FOR MISC. STRUCTURES	5" PERFORATED CIRCULAR PIPE, LONGITUDINAL UNDERDRAIN	6" CIRCULAR PIPE UNDERDRAIN OUTLETS	5" CONCRETE GUTTER		3" BITUMINOUS GUTTER	9" STONE FILLED W/RE MATRESS	12" STONE FILLED W/RE MATRESS
EA	L.F.	EA	L.F.	EA	L.F.	EA	L.F.	LUMP	SUM	LUMP	SUM	C.Y.	C.Y.	L.F.	L.F.	S.Y.	S.Y.	S.Y.	C.Y.
1-10 CHANNEL (CONCRETE)																			
23+59.40 TO 23+89																			
1-95 S.B.R.																			
295+25 TO 296+65 LT.																			
296+50 TO 298+75 LT.																			
1-81 S																			
288+50 TO 290+00 RT.																			
290+00 LT.																			
PLAN SHEET P-4																			
298+25 TO 299+94 RT.																			
299+94 TO 301+75 RT.																			
301+75 TO 303+50 RT.																			
303+50 TO 305+50 RT.																			
305+50 TO 306+50 RT.																			
306+50 TO 307+50 RT.																			
307+50 TO 309+00 RT.																			
299+94 TO 309+00 RT.																			
1-95 S.B.R.																			
298+25 TO 300+00 LT.																			
300+00 TO 302+00 LT.																			
302+00 TO 304+00 LT.																			
304+00 TO 306+50 LT.																			
306+50 TO 309+00 LT.																			
PLAN SHEET P-5																			
310+30 TO 312+00 RT.																			
309+00 TO 310+22 RT.																			
1-95 S.B.R.																			
309+00 TO 311+50																			
311+50 TO 312+00																			
312+00 TO 314+00																			
RAMP 7.4*																			
6+77 TO 6+90																			
7+50 TO 7+50																			
7+50 TO 7+50																			
TOTAL																			

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	L. BENDER, STONE & ASSOC., INC. AND KATZ, CHMURA & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	& INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: J.E.T. TRACED BY: J.E.T. F.A.P. NO. 1-95-4(39)34 S.R.C. NO. 35-36-95 BALTO. CITY NO. 1988
		SCALE: NONE	DATE: MAY 11, 1973
			DES. BY: J.L.G. CHK. BY: J.L.G. SHEET NO. (119) Q-5 OF Q-15

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	JOB AND PLAN NO.	SHEET NO.	TOTAL SHEETS
2	MD.	95-4(35)34	6-6	(10)

STATION	PAVING													REMARKS
	3" SUB-BASE USING CRUSHER RUN	4" SUB-BASE USING CRUSHER RUN	6" SUB-BASE USING CRUSHER RUN	4" DENSE, GRADED STABILIZED AGGREGATE BASE COURSE	BITUMINOUS MATERIAL FOR PRIME COAT	BITUMINOUS CONCRETE SPEC. B. USING (B&B) ST. (2.0)	BITUMINOUS CONCRETE SPEC. B. USING BAND 9A/STONE	BITUMINOUS CONCRETE SPEC. B. USING BAND 10C OR 10C/AL	8" REINF. CEMENT CONCRETE PAVEMENT CLASS P	9" REINF. CEMENT CONCRETE PAVEMENT CLASS P	8" CONTINUOUS REINF. CEMENT CONCRETE PAVEMENT CLASS P	TERMINAL JOINT		
	S.Y.	S.Y.	S.Y.	S.Y.	GAL.	TON	TON	TON	S.Y.	S.Y.	S.Y.	L.F.		
PLAN SHEET P-1														
RAMP "A"														
16+87 TO 28+28				701							761			
RAMP "B"														
3+43 TO 7+25				690						46	614			
BOSTON ST.														
287+08 TO 296+15				2464							2464			
O'DONNELL ST. (EXT.)														
107+00 TO 118+50				890							812			
113+24 TO 118+05				1280		214		94						
O'DONNELL ST.														
114+35 TO 114+81														
6+30 TO 13+91				2261		1120		905						
PLAN SHEET P-2														
119+50 TO 123+77				378							278			
PLAN SHEET P-3														
1-85 S														
188+50 TO 240+11				90							72		24	
240+11 TO 242+96				370										
248+50 TO 249+15	1585	1585						22		336				
RAMP "A"														
7+25 TO 12+81				1006						42	718	260		
RAMP "B"														
11+30 TO 24+81				87							87			
1-95														
181+00 TO 248+00 SUP.	3444	3444												90
242+81 TO 245+00 SUP.				271										
245+01 TO 245+00				935		1879					900			
181+24 TO 248+00 SUP. TEMPORARY (COMPLETED)	1885	1885												96
18+25 TO 19+00				6567		1191		494						
PLAN SHEET P-4														
248+00 TO 309+00	13,844	13,844	644		2480					553	13,501			12
300+26 TO 300+78			445							380				
PLAN SHEET P-5														
309+00 TO 316+00	7578	7578			1595						7375			
309+00 TO 310+32			277								258			
316+15 TO 316+10			994								960		108	
RAMP "A"														
347+11 TO 348+25			969								887			
347+10 TO 347			548								548			
TOTAL	28,577	28,577	14,066	8247	8458	100	846	603	2009	10031	27610	340		

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KROEHL, BERRY, STONE & ASSOC., INC. AND MATT, PHILBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: FW TRACED BY: FW DES. BY: DGM CHK. BY: J.L.C.
		SCALE: NONE	DATE: MAY 11, 1973
			SHEET NO. 6-6 OF 6-15 JOB NO. 95-4(35)34 SHEET NO. 6-6 OF 6-15 BALDG. CITY NO. 1998

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4139134	Q-7	Q-15

STATION	SHOULDERS																	REMARKS								
	3" STABILIZED SHOULDER 3'x3' A	4" STABILIZED SHOULDER 3'x3' A	VARIABLE WIDTH STABILIZED SHOULDER 5.5'x3' A	10" PLAN CURB CONCRETE W/OLDS	STIMULUS CONCRETE SHOULDER 3'x3' B USING SAND-TN STONE	STIMULUS CONCRETE CURB SPEC B	STANDARD TYPE 141 CURB 8"x18"	TYPE 'A' CURB 8" x 20"		STANDARD TYPE 'A' COMBINATION CURB & OUTER 12" x 18" 8" DEPTH	STANDARD TYPE 'A' COMBINATION CURB & OUTER 12" x 18" 10" DEPTH	TYPE 'A' CURB VARIABLE WIDTH OUTER, 8" DEPTH	TYPE 'A' CURB VARIABLE WIDTH OUTER, 10" DEPTH	TYPE 'C' CURB VARIABLE WIDTH OUTER, 8" DEPTH	STANDARD CURB SPINNING TOP CURB & OUTER	CONCRETE BARRIER CLASS A, 1' CONCRETE	5" CONCRETE SIDEWALK		PAVED DRAIN W/ BEAM	PAVED DRAIN W/ BEAM END FLANGE	REMOVE AND RESET FENCE	6X8 POLYURETHAN ENERGY ABSORBING DEVICE	TEMPORARY ENERGY ABSORBING DEVICE	REMOVE EXISTING FENCE	6" CHAIN LINK FENCE	TERMINAL POSTS FOR 6" CHAIN LINK FENCE
	S.Y.	S.Y.	S.Y.	S.Y.	L.F.	L.F.	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.		L.F.	EA.	L.F.	EA.	EA.	L.F.	L.F.	EA.	
15+00 TO 15+10																										
15+10 TO 15+20						125				332																
15+20 TO 15+30										400	110															
15+30 TO 15+40																									186	2
15+40 TO 15+50								205								5610								676	197	5
15+50 TO 15+60						385	554			958	1046	90			6082									868	159	1
15+60 TO 15+70																										
15+70 TO 15+80																										
15+80 TO 15+90																										
15+90 TO 16+00																										
16+00 TO 16+10																										
16+10 TO 16+20																										
16+20 TO 16+30																										
16+30 TO 16+40																										
16+40 TO 16+50																										
16+50 TO 16+60																										
16+60 TO 16+70																										
16+70 TO 16+80																										
16+80 TO 16+90																										
16+90 TO 17+00																										
17+00 TO 17+10	1752	1752				375												31								
17+10 TO 17+20	845	1717	845	692	626										1557											
17+20 TO 17+30																										
17+30 TO 17+40	4978	4164	4978	1293	830																					
17+40 TO 17+50																										
17+50 TO 17+60																										
17+60 TO 17+70																										
17+70 TO 17+80																										
17+80 TO 17+90																										
17+90 TO 18+00																										
18+00 TO 18+10																										
18+10 TO 18+20																										
18+20 TO 18+30																										
18+30 TO 18+40																										
18+40 TO 18+50																										
18+50 TO 18+60																										
18+60 TO 18+70																										
18+70 TO 18+80																										
18+80 TO 18+90																										
18+90 TO 19+00																										
TOTAL	11871	10272	10124	3541	1006	685	834	206		3990	1046	155	90	62	2	16	1517	10772		231						

REVISIONS		CONSULTANT FIDELL MEMOR, STONE & ASSOC., INC. MATZ CHILD & ASSOC., INC. CONSULTING ENGINEERS 443 N. CALVERT STREET BALTIMORE, MARYLAND 21202		CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET SCALE: NONE		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY: FW TRACED BY: FW F.A.P. NO. 1-95-4139134 S.R.P. NO. BS-246-95-B15 BALTO. CITY NO. 1299		
				DES. BY: DGM CHK. BY: JLC DATE: MAY 11, 1973		SHEET NO. 1191 Q-7 of Q-15		

SUMMARY OF QUANTITIES

110	ROAD	STATE	700	NO	SHEET	TOTAL
2	MD	I 95-413034	Q-8	Q-15	(119)	Q-15

STATION	UTILITIES																			REMARKS			
	OVERHEAD SIGN SUPPORT STRUCTURE	SPECIAL SIGN SUPPORTS	3 IN. 5 7 STEEL BEAM	4 IN. WF 13.0 STEEL BEAM	6 IN. WF 19.5 STEEL BEAM	8 IN. WF 29.0 STEEL BEAM	SIGN LIGHTING SUPPORT STRUCTURE	TEMPORARY PORTABLE SUPPORT	MAST ARM TRAFFIC SIGNAL SUPPORTS	VEHICLE DETECTORS	ELECTRICAL HAND BOXES	TRANSIT & TRAFFIC MANHOLES 4FT. x 4FT.	2 IN. GALVANIZED STEEL CONDUIT	4 IN. GALVANIZED STEEL CONDUIT	3 IN. TRANSIT & TRAFFIC DUCT (NON-METALLIC P.V.C.)	MARKERS FOR CABLE, DUCT & SPLICES	HIGH MAST LIGHTING STANDARDS	TRENCHING FOR DIRECT BURIAL CABLE	WIRING FOR EASTERN AVE UNDERPASS		#4 SPRUNG WIRE	#4 INSULATED WIRE	
	EA	EA	L.F.	L.F.	L.F.	L.F.	EA	EA	EA	EA	EA	EA	L.F.	L.F.	L.F.	EA	EA	L.F.	EA	L.F.	L.F.		
PLAN SHEET P-4																							
798+00 to 799+00 L1																							
799+00 to 800+00 R1																							
799+75 SBR																							
799+75 L																							
799+75 NBR																							
799+82 L1 & R1																							
799+10 SBR																							
799+10 L																							
799+10 NBR																							
PLAN SHEET P-5																							
810+00 SBR																							
810+00 L																							
810+00 NBR																							
811+96 L1 & R1																							
811+90 SBR																							
811+90 L																							
811+90 NBR																							
811+90 R1																							
RAMP 121 9+25																							
804+00 to 811+90 R1																							
PLAN SHEET P-1																							
8+00 to 14+00																							
109+00 to 119+00																							
281+10 L1 & R1																							
PLAN SHEET P-2																							
287+00 to 298+00 R1																							
294+50 to 298+00 L1																							
10+10 RAMP 121																							
298+05 SBR																							
295+00 SBR																							
295+00 NBR																							
295+10 L																							
295+98 R1																							
296+00 L																							
296+00 NBR																							
296+00 SBR																							
296+05 L1																							
PLAN SHEET P-3																							
11+80 to 18+10																							
286+19.5 RAMP 121																							
27+60 RAMP 121																							
28+10 RAMP 121																							
28+10 RAMP 121																							
PLAN SHEET P-4																							
11+80																							
TOTAL																							

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		DRAWN BY: S.G.M. TRACED BY: S.G.M. P.A.P. NO. 195-413034 S.R.C. NO. BC 246-36-R15 BALTO. CITY NO. 1998	DES. BY: DGM CHK. BY: J.L.C. SHEET NO. (119) Q-8 of Q-15
		SCALE: NONE	DATE: MAY 11, 1973

SUMMARY OF QUANTITIES

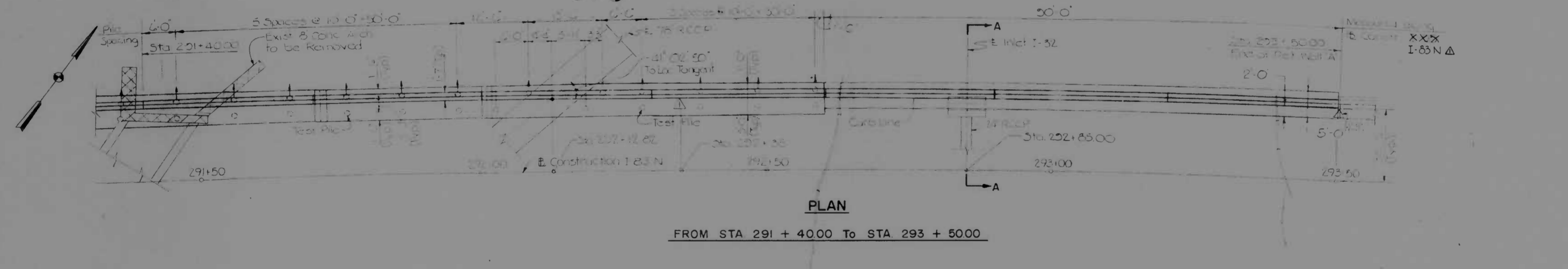
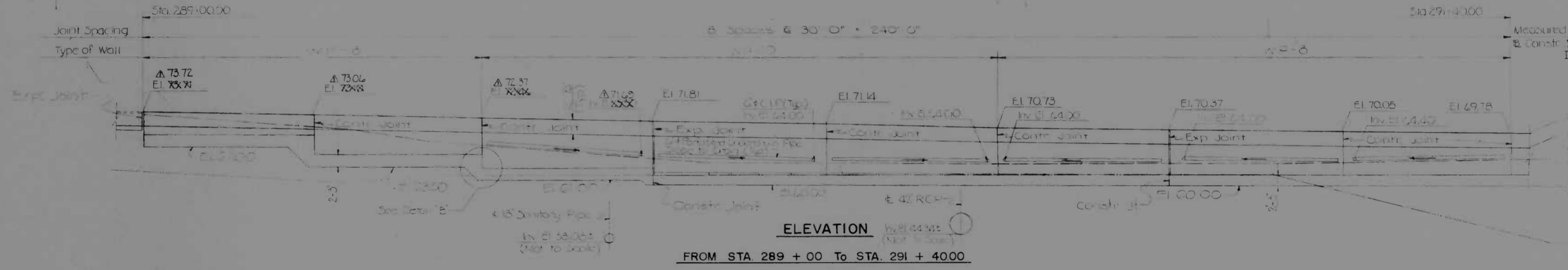
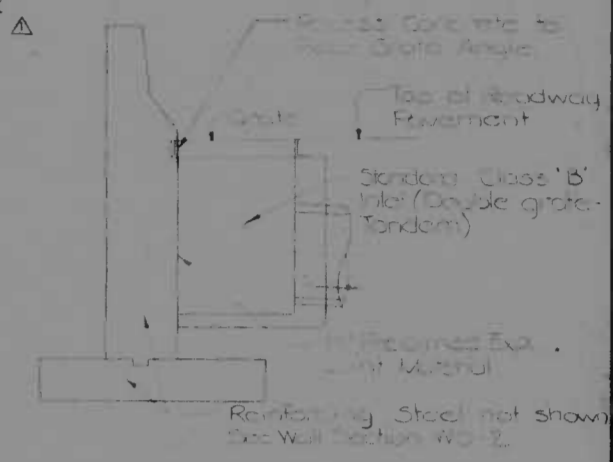
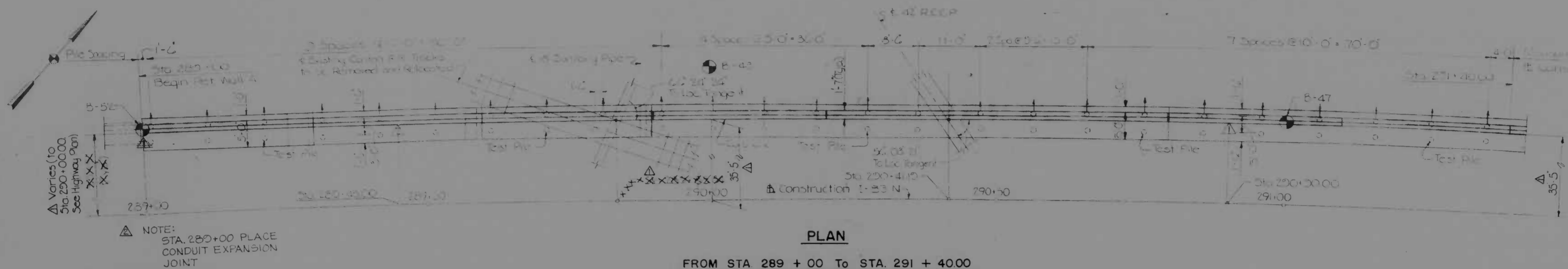
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4139134	Q-9	(119)
			Q-15	

UTILITIES

STATION	UTILITIES																REMARKS							
	OVERHEAD SIGN SUPPORT STRUCTURE	SPECIAL SIGN SUPPORTS	3 IN. 5/8 STEEL BEAM	4 IN. WF 12.0 STEEL BEAM	6 IN. WF 15.5 STEEL BEAM	6 IN. WF 20.0 STEEL BEAM	SIGN LIGHTING SUPPORT STRUCTURE	TEMPORARY PORTABLE SUPPORT	CONCRETE MARKERS FOR CABLE, DUCT & SPLICES	HIGH MAST LIGHTING STANDARDS	TRENCHING FOR DIRECT BURIAL CABLE	WIRING FOR EASTERN AVE UNDERPASS	#4 GROUND WIRE	#4 INSULATED WIRE	2" C x 1/4" x 1/4" CABLE DUCT	4" C x 1/4" x 1/4" CABLE DUCT		4" C x 1/2" x 1/2" CABLE DUCT	GROUND ROD	CONTROL AND DISTRIBUTION EQUIPMENT	HIGH MAST LUMINAIRES	UNDERPASS LUMINAIRES	GLARE SHIELDS	ELECTRICAL INSTALLATION AT HIGH MAST LIGHTING STANDARDS
	EA	EA	L.F.	L.F.	L.F.	L.F.	EA	EA	EA	EA	L.F.	EA	L.F.	L.F.	L.F.	L.F.	L.F.	EA	EA	EA	EA		EA	
PLAN SHEET L-2																								
323+00 (n 343+00)											3000		5000	800	800	5000								
19+00 KANE ST. RT.																								STATION NO. 20
25+25 KANE ST. LT.																								STATION NO. 22
0+00 RAMP 'E'																								STATION NO. 21
3+00 RAMP 'E'																								110 FT. IN HEIGHT
130+25 E																								100 FT. IN HEIGHT
7+22 RAMP 'B'																								STATION NO. 27
130+50 E																								100 FT. IN HEIGHT
138+75 E																								100 FT. IN HEIGHT
15+50 RAMP 'D'																								100 FT. IN HEIGHT
343+00																								110 FT. IN HEIGHT
1+00 RAMP 'B'																								110 FT. IN HEIGHT
30+00@12+00 EASTERN AVE																								
TOTAL							3		5		3000		5000	800	800	5000				12		8	7	

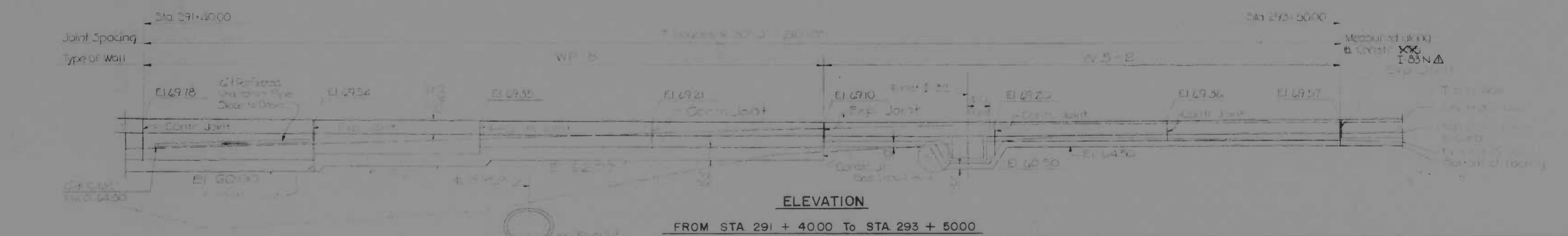
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		SCALE: NONE	DATE: MAY 11, 1973
		DRAWN BY: S.G.M. TRACED BY: S.G.M.	DES. BY: D.G.M. CHK. BY: J.L.C.
		F.A.P. NO. I-95-4139134 S.R.C. NO. BC 246-36-815	BALTO. CITY NO. 1998 SHEET NO. (119) Q-9 OF Q-15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	S-1	S-33



GENERAL NOTES

1. All materials, materials, and specifications shall conform to the latest editions of the Standard Specifications for Highway Construction, published by the American Road & Builders Builders Association, Inc., and the latest editions of the Standard Specifications for Highway Construction, published by the American Road & Builders Builders Association, Inc.
2. Reinforcing Steel, ASTM Specification A615 Grade 60, shall be applied a minimum of 24 inches from the bottom of the wall for 2 inches from the top.
3. All work shall be done in accordance with the latest editions of the Standard Specifications for Highway Construction, published by the American Road & Builders Builders Association, Inc.



REVISIONS

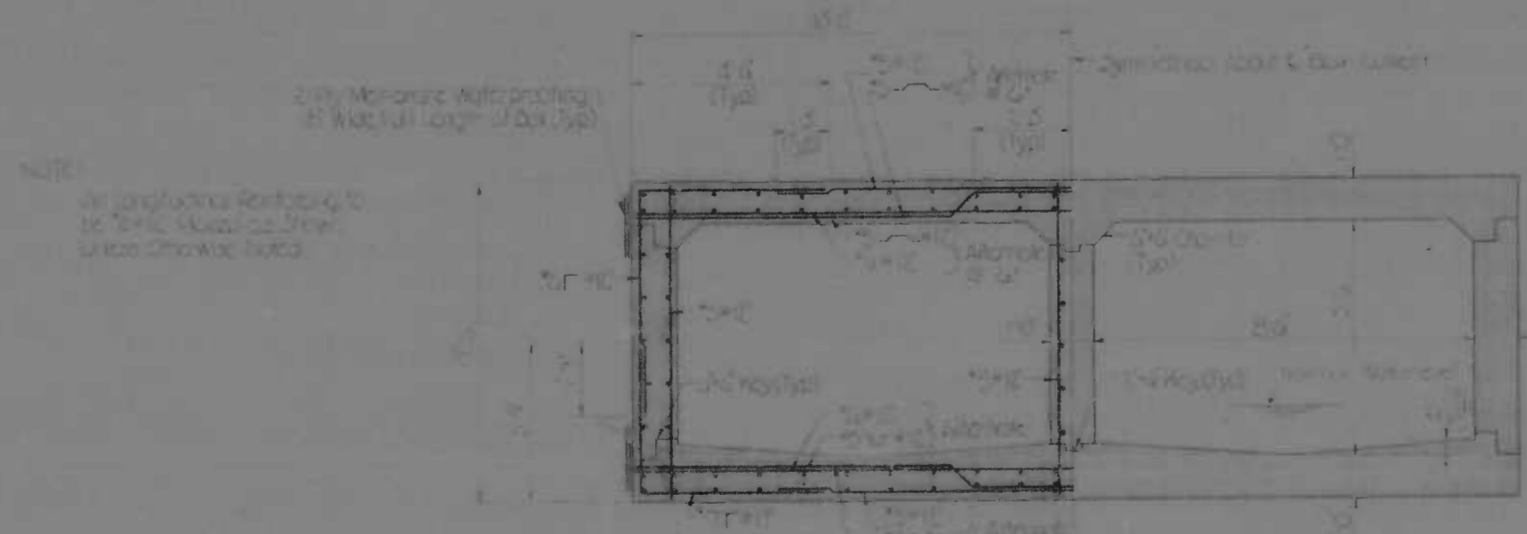
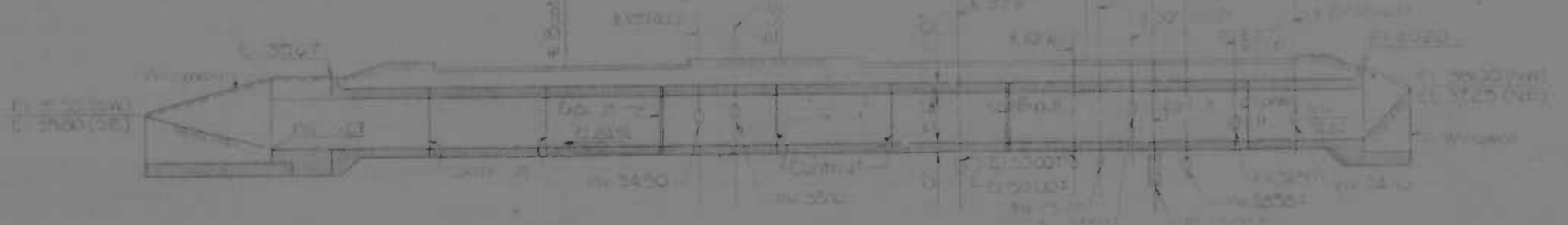
1. Revised 3-15-74
2. Revised 7-15-74

NOTES

1. All work shall be done in accordance with the latest editions of the Standard Specifications for Highway Construction, published by the American Road & Builders Builders Association, Inc.
2. All work shall be done in accordance with the latest editions of the Standard Specifications for Highway Construction, published by the American Road & Builders Builders Association, Inc.

REVISIONS 1. Revised 3-15-74 2. Revised 7-15-74	CONSULTANT ANDERLE, BENDER, STONE & ASSOC., INC. AND WATL, SHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 RETAINING WALL 'A'		DRAWN BY: S.D.W. TRACED BY: S.D.W. F.A.P. NO.: I-95-4(39)34 S.R.C. NO.: BC 246-36-815 BALTO. CITY NO. 998	
SCALE: 1" = 10'-0" (except as shown)		DATE: MAY 11, 1973		DES. BY: K.S.J. CHK. BY: M.S.C. SHEET NO.: (119) S-1 of S-33	

DESIGN NO.	DATE	FILE NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-43934	5-10	11-10



HYDROLOGIC AND HYDRAULIC DATA

GAGING STATION NONE

DRAINAGE AREA = 90 MI. = ACRES

MAXIMUM DISCHARGE (NO RECORD) = CFS

MAXIMUM DISCHARGE OF RECORDS RECORD = CFS

PROPOSED STRUCTURE

DRAINAGE AREA = 0.718 MI. = ACRES

STORMWATER DISCHARGE (Eq. 25 Year Storm) = CFS

LEGAL FLOW = CFS

TOTAL MAXIMUM DISCHARGE = CFS

MAXIMUM FLOW DEPTH AT HW = FEET

SPACING = FEET

OPENING TO HW = FEET

VELOCITY AT OUTLET = FT PER SEC

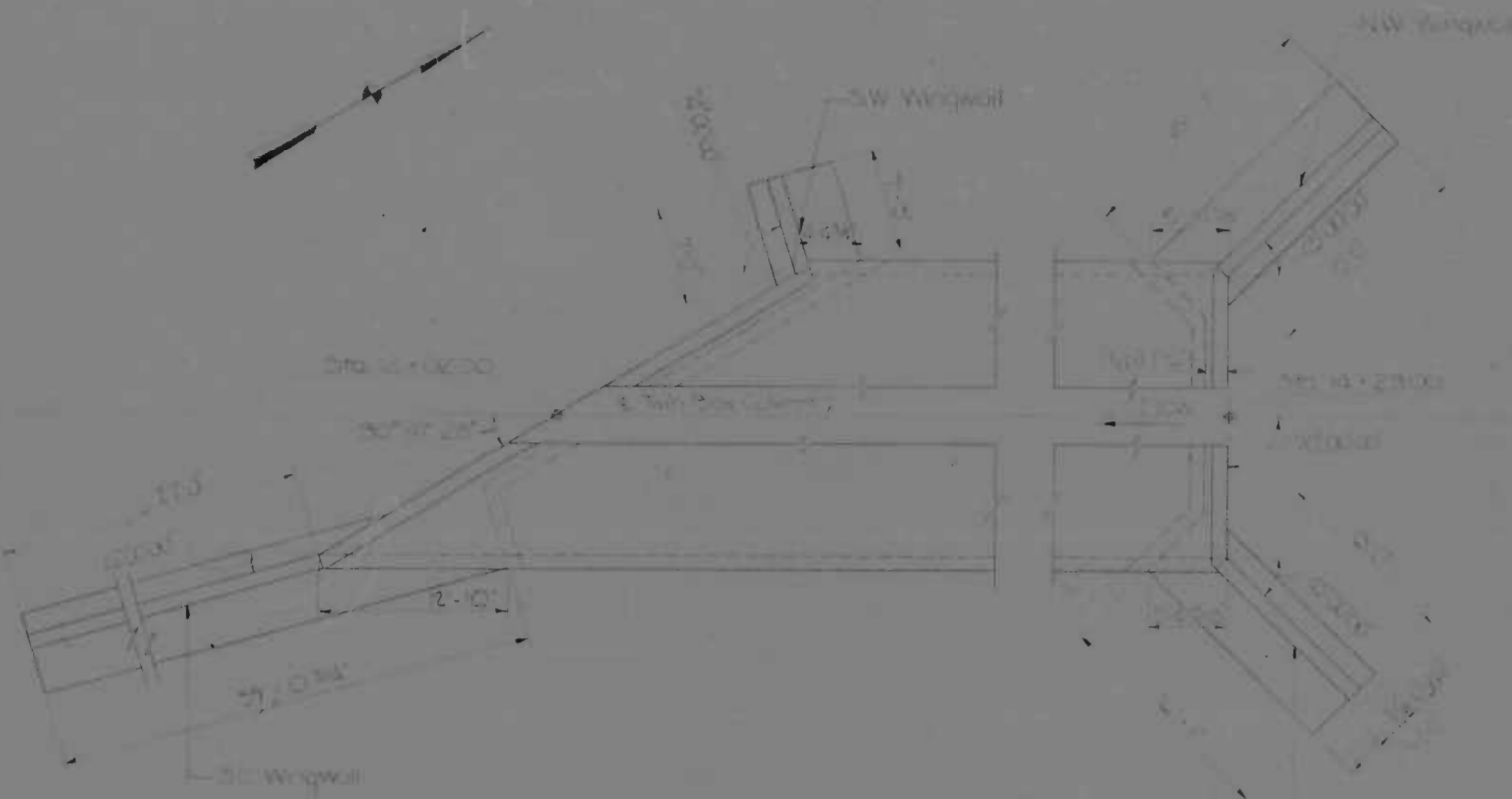
GENERAL NOTES

- SPECIFICATIONS: MARYLAND S.R.C. SPECIFICATIONS AND ERRATA TO SPECIFICATIONS DATED MARCH, 1968 FOR MATERIALS AND CONSTRUCTION, A.S.D.D. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1968 AND 1970, 1971 INTERIM SPECIFICATIONS FOR DESIGN.
- LOADING: HS 20-44
- CONCRETE: CLASS "B-1" CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, SEE SPECIAL PROVISIONS.
- REINFORCING STEEL: A.S.T.M. DESIGNATION #415 GRADE 40. ALL SPLICES SHALL BE LAPPED A MINIMUM OF 24 BAR DIAMETERS, MAXIMUM COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
- CHAMFER: ALL EXPOSED CORNERS SHALL BE CHAMFERED 1/4" x 1/4" WITH MILLER CHAMFER STRIPS UNLESS OTHERWISE NOTED.
- SOIL BEARING PRESSURE: (FOR DESIGN PURPOSES) MAXIMUM SOIL BEARING DOES NOT EXCEED 1 TON PER SQ. FT.
- DAMP-PROOFING: SHALL BE APPLIED TO THOSE PORTIONS OF THE OUTSIDE SURFACE OF SIDE WALLS, TOP OF TOP SLAB NEAR FACES OF HEADWALLS, SLOPESIDE AND WINDWALLS THAT ARE IN CONTACT WITH EARTH AND FULL FACE OF ALL CONTRACTION JOINTS.
- MEMBRANE WATERPROOFING: APPLY TWO PLY MEMBRANE WATERPROOFING, 18" WIDE TO THE EXTERIOR SIDE AND ABOVE THE NORMAL WATER SURFACE OF ALL CONTRACTION JOINTS WITH SIX (6) IN. ONE SIDE AND EARTH ON THE OTHER.
- SOLID SOOTING: 4 THREE FOOT STRIPS SHALL BE LAPPED ADJACENT TO AND IN BACK OF ALL HEADWALLS, SLOPESIDE, AND WINDWALLS.

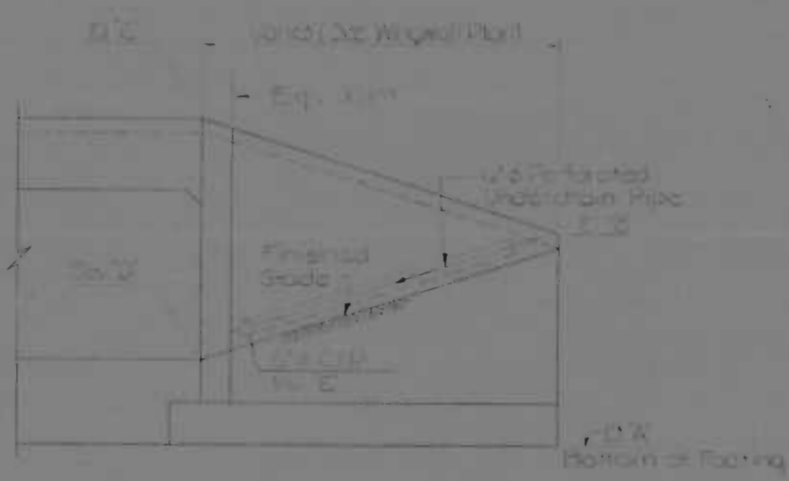
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 BOX CULVERT AT O'DONNELL AND BOSTON ST. S		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		DRAWN BY: J. J. W.	CHK. BY: K. S. J.		
		TRACED BY: J. J. W.	CHK. BY: M. S. C.		
		F.A.P. NO. 1-95-43934	S.R.C. NO. BC 248-26-85		SHEET NO. (10)
		SCALE: AS SHOWN	DATE: MAY 15, 1973	BALTO. CITY NO. 1891	S.D. 1-7-53

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	S-11	(119)
				S-33

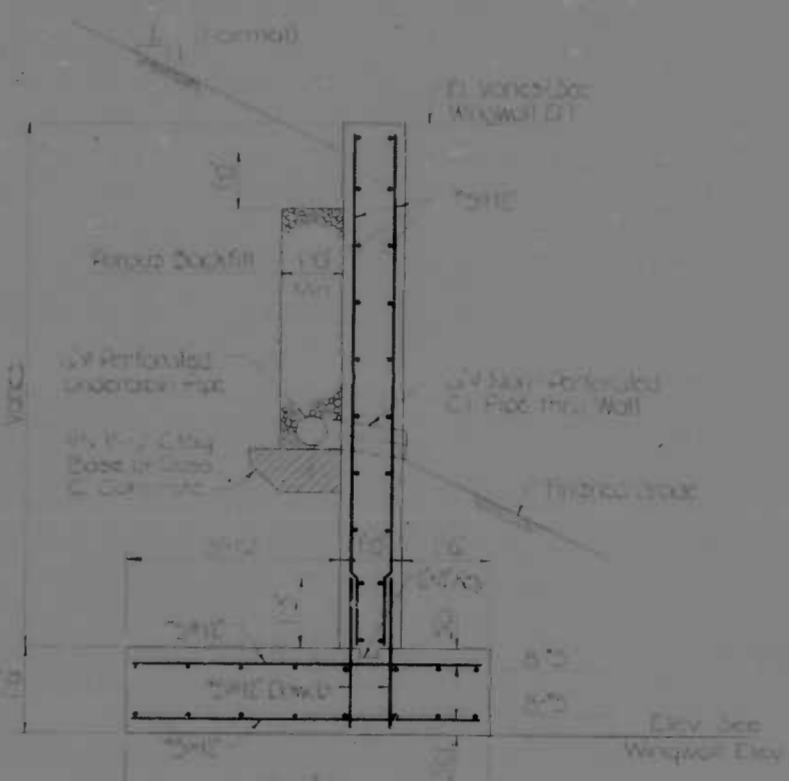
Wingwall	Top S.	Top D.	Top L.	Top R.	Top C.
S.E.	26.25	26.00	25.75	25.50	25.25
S.W.	26.25	26.00	25.75	25.50	25.25
N.W.	26.25	26.00	25.75	25.50	25.25
N.E.	26.25	26.00	25.75	25.50	25.25



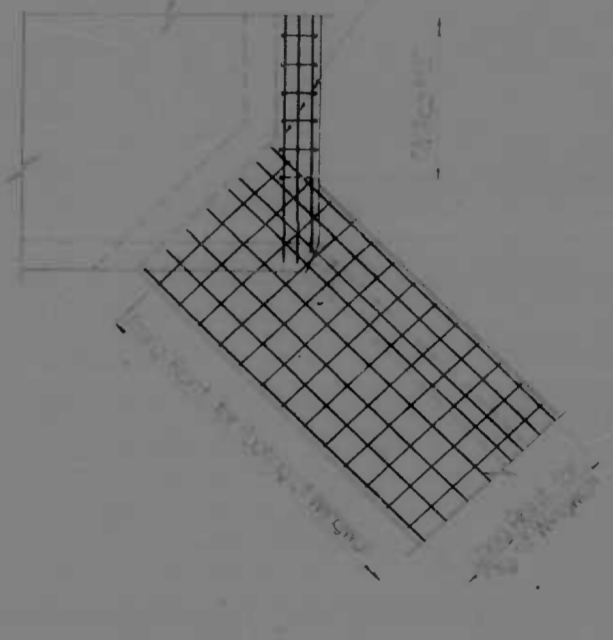
WINGWALL PLAN
Scale 1/8" = 1'-0"



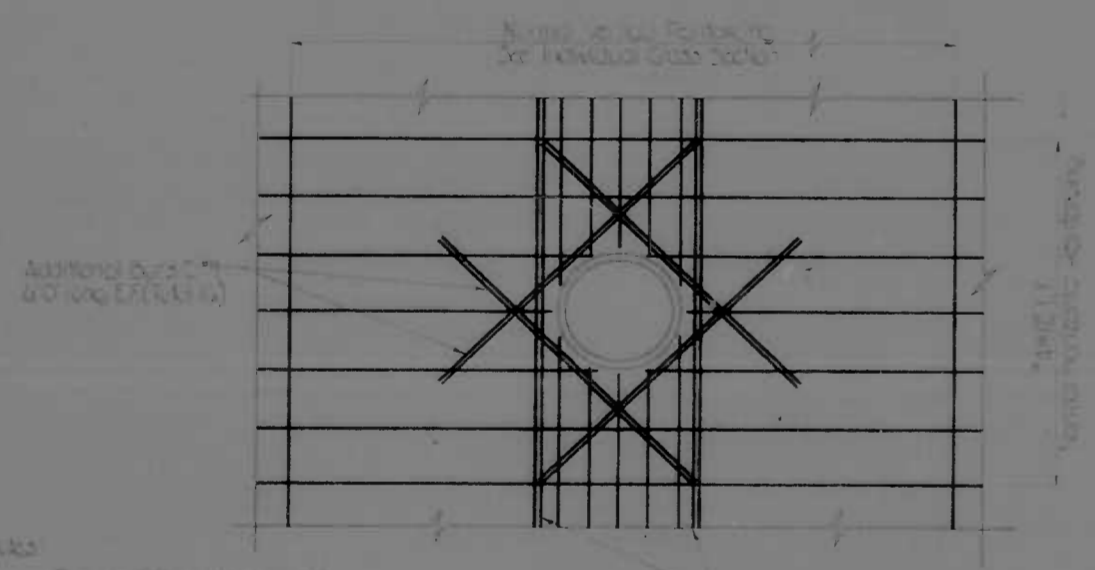
TYPICAL WINGWALL ELEVATION
Scale 1/4" = 1'-0"



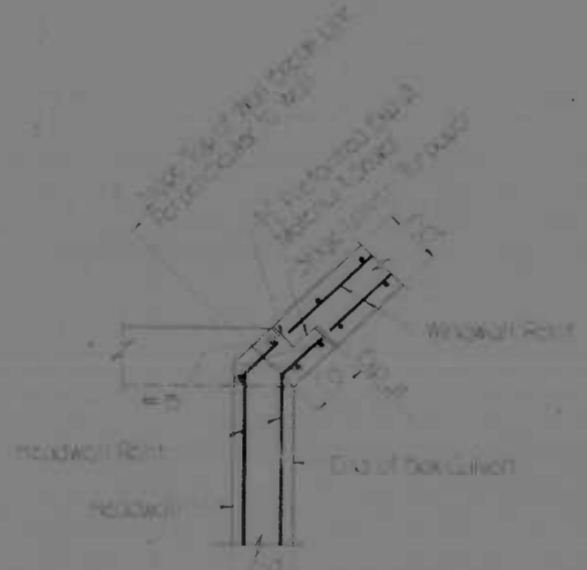
TYPICAL WINGWALL SECTION
Scale 1/4" = 1'-0"



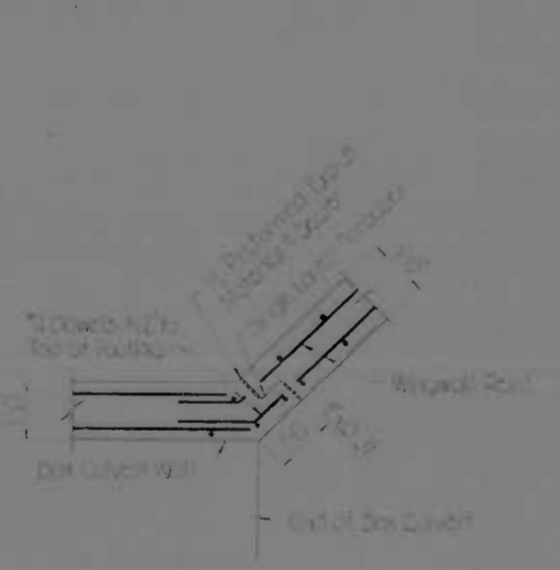
CULVERT WINGWALL FOOTING CONNECTION DETAIL
Scale 1/4" = 1'-0"



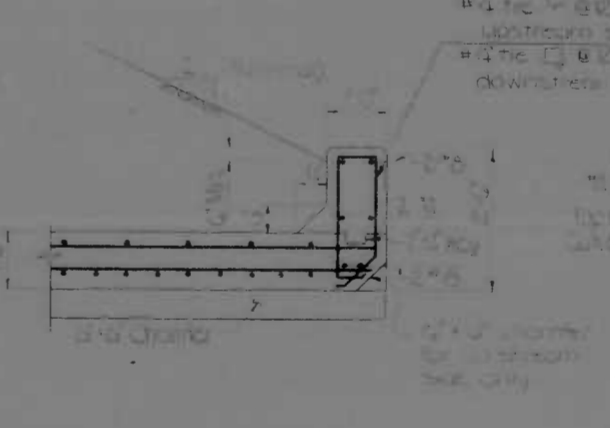
DETAIL OF REINFORCING AT PIPE ENTRANCE
Scale 1/4" = 1'-0"



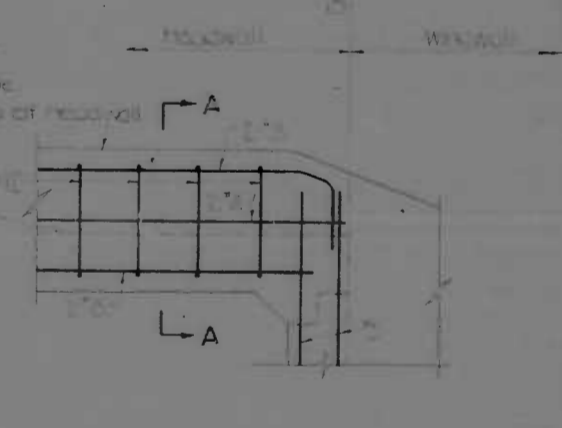
WINGWALL CONNECTION ABOVE TOP SLAB
Scale 1/4" = 1'-0"



WINGWALL CONNECTION BELOW TOP SLAB
Scale 1/4" = 1'-0"

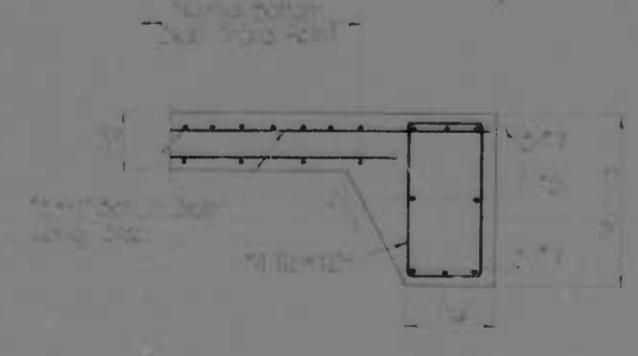


SECTION A-A



ELEVATION

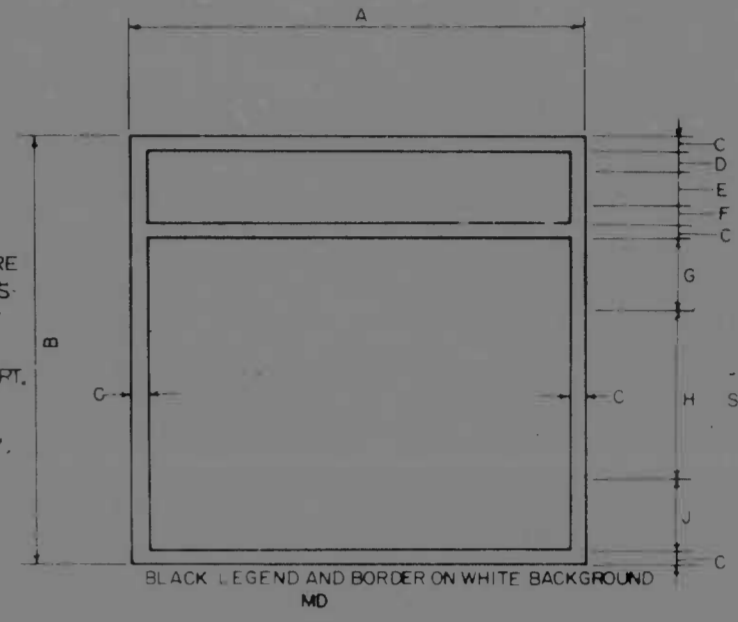
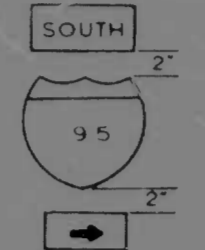
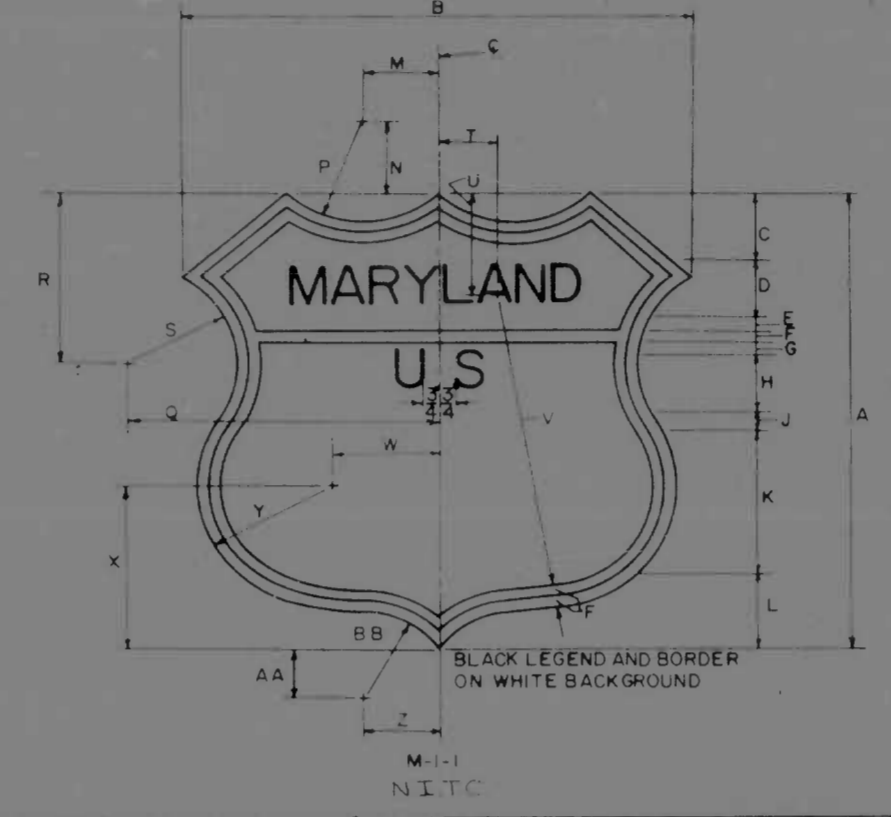
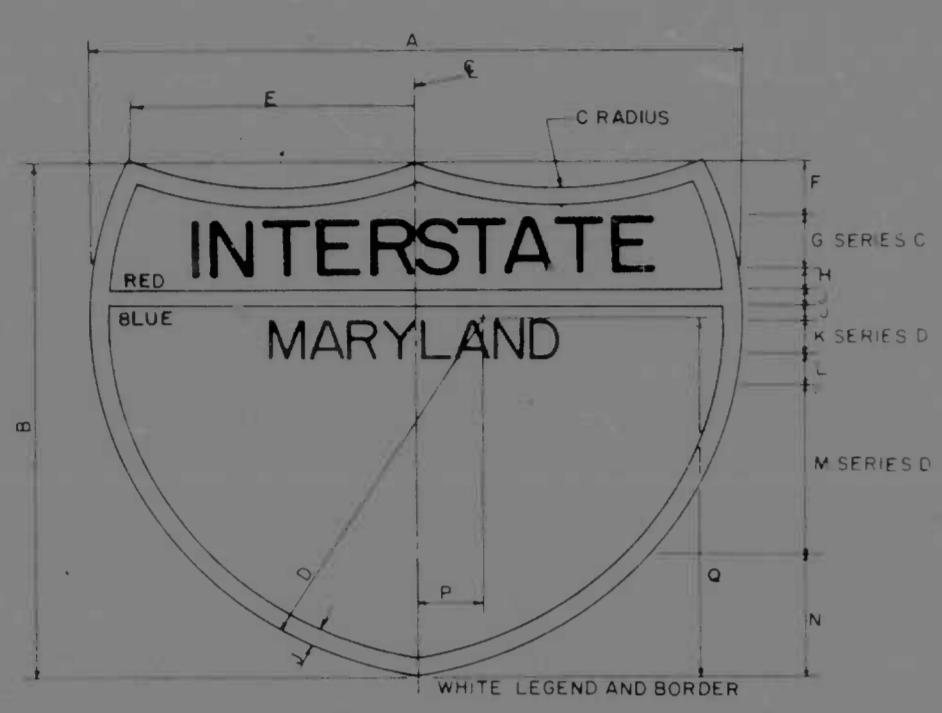
HEADWALL DETAIL
Scale 1/4" = 1'-0"



TOE WALL DETAIL
Scale 1/4" = 1'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 BOX CULVERT AT O'DONNELL AND BOSTON STS MISCELLANEOUS DETAILS	
		DRAWN BY: R.L.D.	DES. BY: M.S.C.
		TRACED BY: R.L.D.	CHK. BY: F.E.M.
		F.A.P. NO.: I-95-4(39)34	SHEET NO.: (119)
		S.R.C. NO.: BC 246-36-815	S-11 of S-33
		SCALE: As Shown	BALTO. CITY NO. 1998
		DATE: MAY 11, 1973	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(3)34	51-10	(119) 51-17



SPACING SHOWN SHALL BE APPLICABLE FOR INTERSTATE, U.S. OR STATE ROUTE MARKER ASSEMBLIES. IF MORE THAN ONE ROUTE MARKER ASSEMBLY IS PLACED VERTICALLY ON THE SAME SUPPORT, THE ASSEMBLIES SHALL BE 6' APART. IF TWO OR MORE ASSEMBLIES ARE PLACED SIDE BY SIDE, THEY SHALL BE 10' APART.

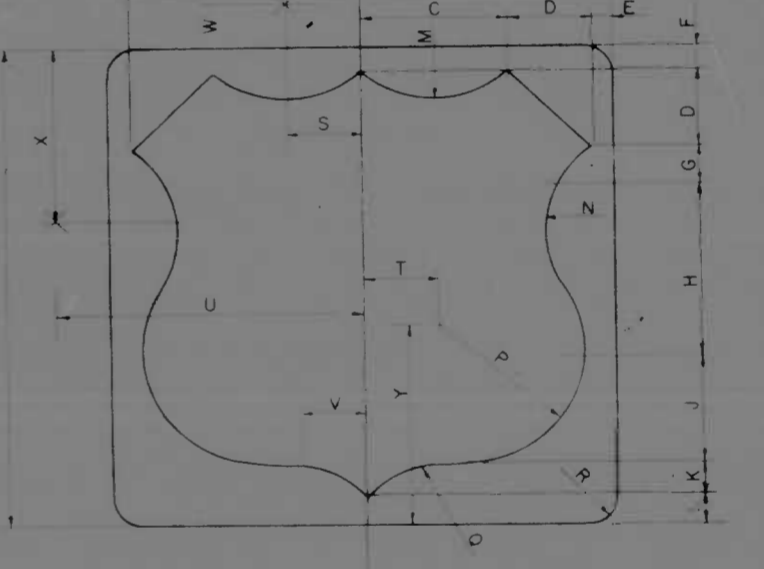
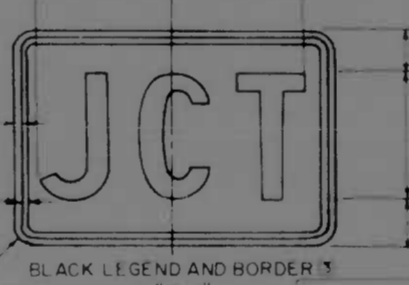
SERIES B
SERIES E
SERIES E - 1 DIGIT
SERIES D - 2 DIGITS
SERIES C - 3 DIGITS

IS-A	IS-B	IS-C	IS-D	IS-E	IS-F
10" NUMERALS		15" NUMERALS		20" NUMERALS	
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
A 24"	30"	36"	45"	48"	60"
B 24"	24"	36"	36"	48"	48"
C 15"	24"	22 1/2"	36"	30"	48"
D 15"	17"	22 1/2"	25 1/2"	30"	34"
E 8 3/4"	10 1/8"	13 3/16"	20 1/8"	17 1/2"	26 7/8"
F 2"	2"	3"	3"	4"	4"
G 2 1/2"	2 1/2"	3 3/4"	3 3/4"	5"	5"
H 1/2"	1/2"	3/4"	3/4"	1"	1"
I 1/2"	1/2"	3/4"	3/4"	1"	1"
J 1/2"	1/2"	3/4"	3/4"	1"	1"
K 1 1/2"	1 1/2"	2 1/4"	2 1/4"	3"	3"
L 1/2"	1/2"	3/4"	3/4"	1"	1"
M 10"	10"	15"	15"	20"	20"
N 6"	6"	9"	9"	12"	12"
P 3"	2"	4 1/2"	3"	6"	4"
Q 14 1/2"	16 1/4"	22 1/8"	25 1/8"	29 3/8"	33 3/4"

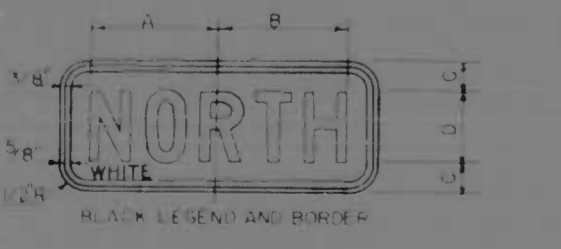
PANEL NO.	DIGITS	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB
M1-1A	2	16	16 1/2	2 1/4	2 1/4	2 1/4	2 1/4	9 1/8	7 1/2	2	2	5 7/8	5	2 7/8	2 1/4	2 1/4	3 1/2	3 1/2	1 7/8	3 1/8	3 1/2	3 1/2	1 7/8	3 1/8	3 1/2	1 7/8	3 1/8
M1-1B	B	16	16 1/2	2 1/4	2 1/4	2 1/4	2 1/4	9 1/8	7 1/2	2	2	5 7/8	5	2 7/8	2 1/4	2 1/4	3 1/2	3 1/2	1 7/8	3 1/8	3 1/2	3 1/2	1 7/8	3 1/8	3 1/2	1 7/8	3 1/8

PANEL NO.	DIGITS	A	B	C	D	E	F	G	H	J
MD-A	B	24"	24"	1 1/2"	1 1/4"	1 1/2"	1 1/4"	3 1/4"	12"D	3 1/4"
MD-B	B	24"	24"	1 1/2"	1 1/4"	1 1/2"	1 1/4"	3 1/4"	12"D	3 1/4"

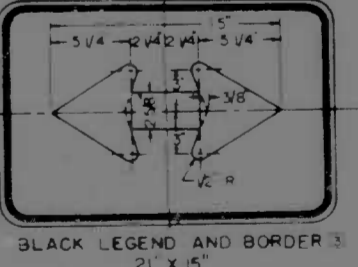
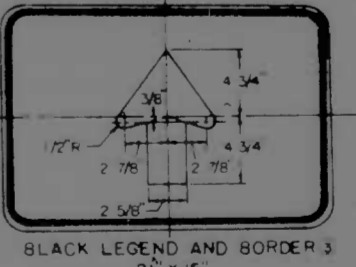
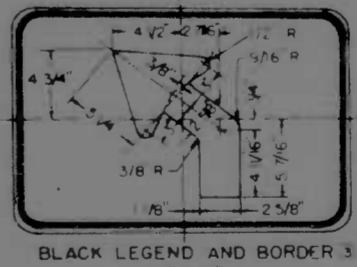
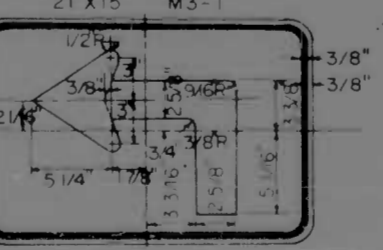
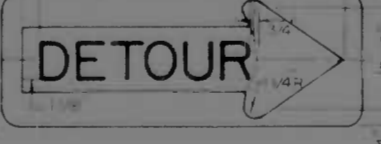
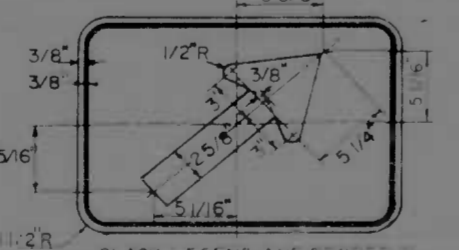
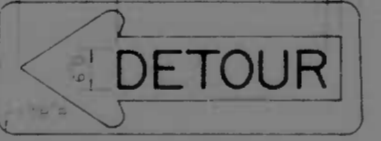
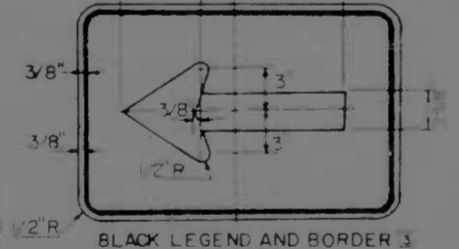
	US-A	US-B
12" NUMERALS		
	2 DIGITS	3 DIGITS
A	24"	30"
B	24"	24"
C	7"	10"
D	4 1/2"	4 3/2"
E	2 1/2"	2 1/2"
F	2 1/2"	2 1/2"
G	1/2"	1/2"
H	12"D	12"D
J	4"	4"
K	1 25/32"	1 25/32"
L	2 1/2"	2 1/2"
M	5 1/2"	9 1/2"
N	7 1/2"	7 1/2"
P	6 1/2"	6 1/2"
Q	5 1/2"	5 1/2"
R	1 1/2"	1 1/2"
S	3 1/2"	5"
T	5"	8"
U	17 1/16"	20 1/16"
V	4"	4"
W	3 3/16"	7 3/32"
X	9 3/32"	9 3/32"
Y	9"	9"



SIZE	A	B	C	D	DESIGNATION
24" x 12"	10 1/8"	10 1/8"	3"	6"	IM3-1A(N)
30" x 15"	13 3/8"	13 3/8"	3 1/2"	8"	IM3-1B(N)
24" x 12"	7 3/8"	6 3/8"	3"	6"	IM3-2A(E)
30" x 15"	10 1/8"	10 1/8"	3 1/2"	8"	IM3-2B(E)
24" x 12"	10 1/8"	10 1/8"	3"	6"	IM3-3A(S)
30" x 15"	13 3/8"	13 3/8"	3 1/2"	8"	IM3-3B(S)
24" x 12"	8 3/8"	8 3/8"	3"	6"	IM3-4A(W)
30" x 15"	11 1/4"	11 1/4"	3 1/2"	8"	IM3-4B(W)



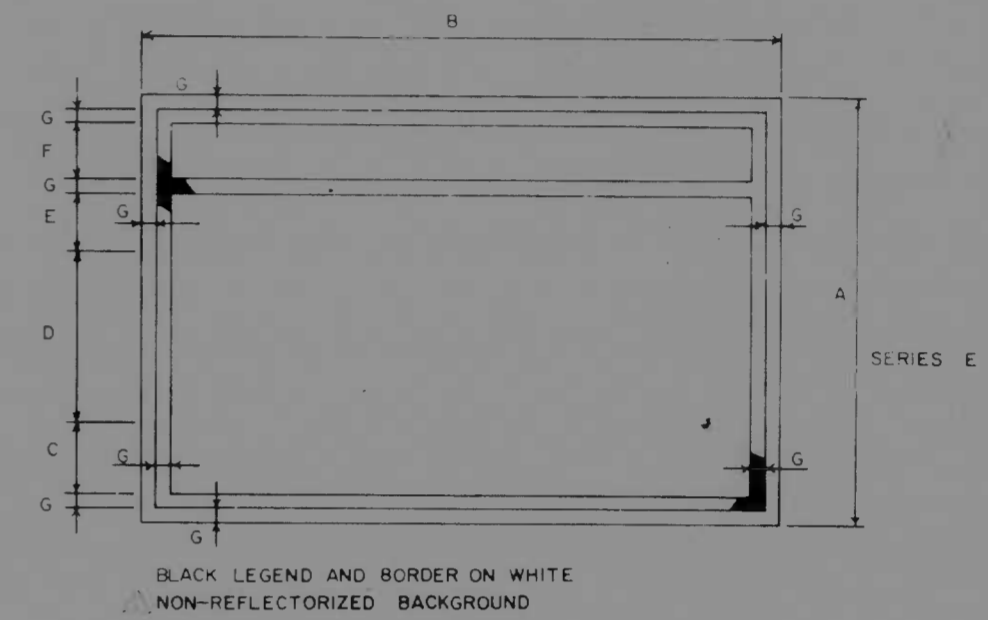
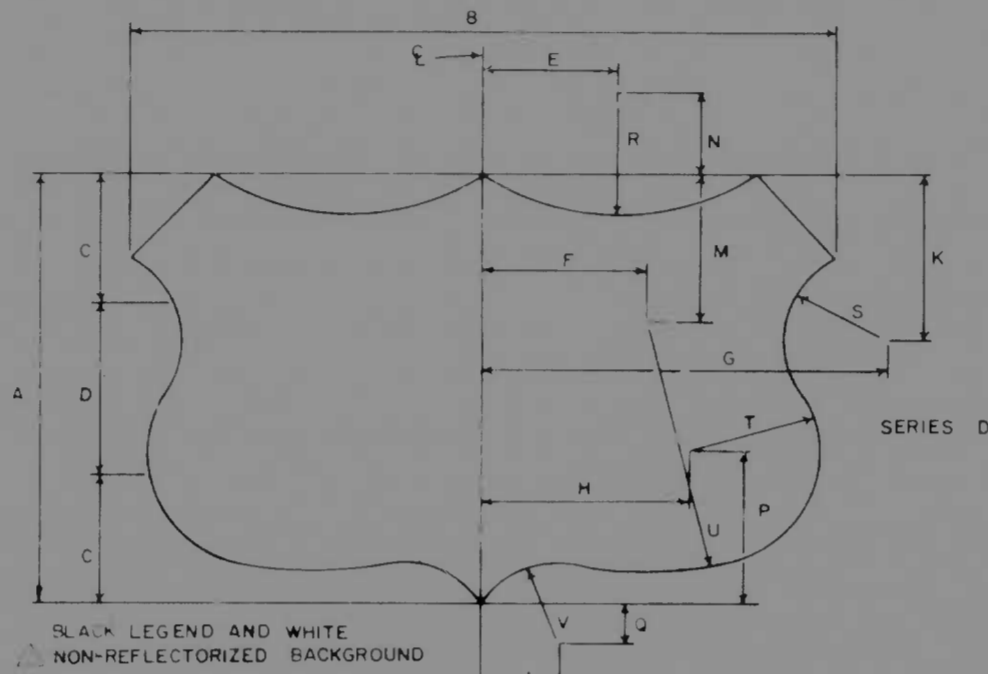
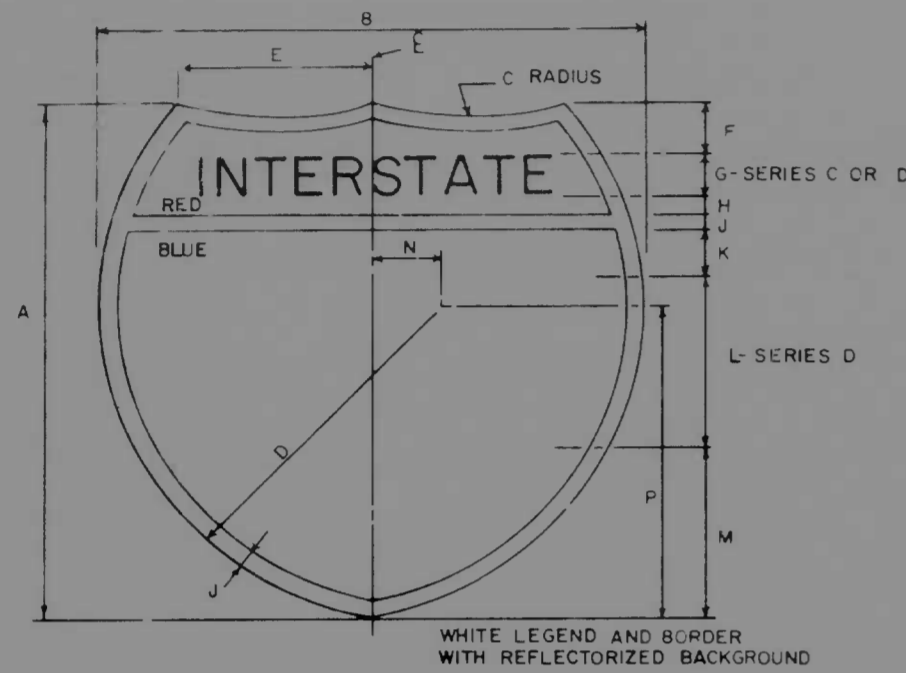
SIZE	A	B	C	D	DESIGNATION
24" x 12"	10"	10"	3"	6"	M3-1A(N)
30" x 15"	12 3/4"	12 3/4"	3 1/2"	8"	M3-1B(N)
24" x 12"	7 3/8"	6 3/8"	3"	6"	M3-2A(E)
30" x 15"	10 1/8"	10 1/8"	3 1/2"	8"	M3-2B(E)
24" x 12"	10 1/8"	9 3/8"	3"	6"	M3-3A(G)
30" x 15"	12 3/8"	11 3/8"	3 1/2"	8"	M3-3B(S)
24" x 12"	8 3/8"	8 3/8"	3"	6"	M3-4A(W)
20" x 15"	11 1/4"	11 1/4"	3 1/2"	8"	M3-4B(W)



NOTES:
 1. FOR GENERAL NOTES SEE SHEET NO. 51-1
 2. ALL DIMENSIONS ARE INCHES
 3. JUNCTION TO B DIRECTIONAL ARROWS TO BE WHITE LEGEND & BORDER ON BLUE BACKGROUND WHEN USED ON APPROACH ROADS TO INTERSTATE ROUTE
 4. FOR STANDARD SIGN ASSEMBLY SUPPORT NUMBER SEE SHEET NO. 51-2
 5. FOR STANDARD SIGN SUPPORTS SEE SHEET NO. 51-13

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOXLE, RENDLER, STONE & ASSOC., INC. AND MATZ, CHADDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. BALVERT STREET BALTIMORE, MARYLAND 21201	DRAWN BY: SRC B A L TRACED BY: SRC B M S F FAP NO. 225-439134 SRC NO. B246-36-815 BALTO. CITY NO. 1998	DES. BY: SRC B A L CHK. BY: J L C SHEET NO. (119) 51-10-51-17
SCALE: NONE	DATE: MAY 11, 1973		

FILE NO.	REV.	DATE	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	51	115



IS-1	IS-2	IS-3	IS-4	IS-5	IS-6	IS-7	IS-8	IS-9
10' NUMERALS	12' NUMERALS	15' NUMERALS	18' NUMERALS	12' NUM	15' NUM	18' NUM	21' NUM	24' NUM
2 DIGITS	3 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	2 DIGITS
A 24	25	36	36	38	48	51	32	16
B 24	30	36	36	45	48	58	32	16
C 15	17-1/2	22-1/2	22-1/2	26-1/4	30	34	20	10
D 14-7/8	16-3/4	22-5/16	22-5/16	25-1/4	29-3/4	33	19-7/8	9-15/16
E 8-5/8	12-3/4	12-15/16	12-15/16	19	17-1/4	23-3/8	11-9/16	5-13/16
F 2	2-1/4	3-7/16	3-7/16	3-13/16	4-3/4	5-1/4	3-1/8	1-5/8
G 2 D	2 D	3 C	3 C	3 D	5 C	5 D	3 C	15-8 C
H 1-3/16	1-3/16	1-5/16	1-5/16	1-5/16	2	1-3/4	1-5/16	11/16
J 3/4	3/4	1-1/8	1-1/8	1-1/8	1-1/2	1-1/2	1-1/8	1/2
K 2-9/16	2-9/16	3-1/8	3-1/8	3-1/8	4	4	2-5/8	1-5/16
L 10	10	15	15	18	18	18	12	6
M 5-1/2	6-1/4	12	9	10-5/8	12-3/4	15-1/2	8-13/16	4-1/4
N 2-7/8	1-3/4	4-5/16	4-5/16	2-3/4	5-3/4	4	3-7/8	1-15/16
P 14-5/8	16-1/16	21-15/16	21-15/16	25-1/8	29-1/4	32-3/4	19-1/2	9-3/4

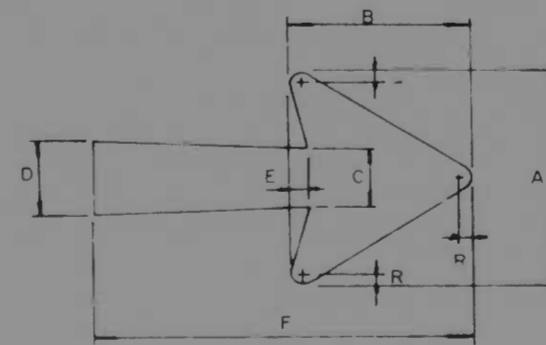
US-1	US-2	US-3	US-4	US-5	US-6	US-7	US-8
10' NUMERALS	12' NUMERALS	15' NUMERALS	18' NUMERALS	12' NUM	15' NUM	18' NUM	21' NUM
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
A 24	24	30	30	36	36	42	42
B 28	36	35	45	42	54	49	63
C 7	7	9	9	10-1/2	10-1/2	12	12
D 10	10	12	12	15	15	18	18
E 4-3/4	6-13/16	5-15/16	8-9/16	7-1/8	10-1/4	8-5/16	11-15/16
F 4-3/8	8-3/8	5-1/2	10-1/2	6-9/16	12-9/16	7-5/8	14-5/8
G 16-5/8	20-5/8	20-13/16	25-3/16	24-15/16	30-15/16	29-1/8	36-1/8
H 7	11	8-3/4	13-3/4	10-1/2	16-1/2	12-1/4	19-1/4
J 3-5/8	3-5/8	4-9/16	4-9/16	5-1/2	5-1/2	6-3/8	6-3/8
K 8-13/16	8-13/16	11	11	13-3/16	13-3/16	15-3/8	15-3/8
M 8-1/4	8-1/4	10-5/16	10-5/16	12-3/8	12-3/8	14-1/2	14-1/2
N 6-1/2	9-7/8	8-3/16	12-5/16	9-13/16	14-13/16	11-7/16	17-1/4
P 8-11/16	8-11/16	10-13/16	10-13/16	13	13	15-3/16	15-3/16
Q 2-11/16	2-11/16	3-5/16	3-5/16	4	4	4-11/16	4-11/16
R 8-1/8	12	10-3/16	15	12-3/16	18	14-1/4	21
S 5-5/16	5-5/16	6-5/8	6-5/8	7-5/16	7-15/16	9-5/16	9-5/16
T 6-3/8	6-3/8	7-5/16	7-5/16	9-9/16	9-9/16	11-1/8	11-1/8
U 13-5/16	13-5/16	17-3/8	17-3/8	20-7/8	20-7/8	24-3/8	24-3/8
V 4-1/2	4-1/2	5-5/8	5-5/8	6-3/4	6-3/4	7-7/8	7-7/8

SHIELD NO.	DIGITS	A	B	C	D	E	F	G
MD-1	3	18	24	23 1/4	6	2 3/4	2 3/4	3/4
MD-2	3	24	32	4	8	3 1/2	3 1/2	1
MD-3	3	27	37	4	10	4	4	1
MD-4	3	30	42	5	12	4	4	1
MD-5	3	36	50	5 1/2	15	4 1/2	4 3/4	1 1/4
MD-6	3	42	60	6	18	4 1/2	6	1 1/2
MD-7	18 2	18	18	2 3/4	6	2 3/4	2 3/4	3/4
MD-8	18 2	24	24	4	8	3 1/2	3 1/2	1
MD-9	18 2	27	27	4	10	4	4	1
MD-10	18 2	30	30	5	12	4	4	1
MD-11	18 2	36	36	5	15	5	4 3/4	1 1/4
MD-12	18 2	42	42	6	18	5 1/2	5	1 1/2

NOTES

- FOR GENERAL NOTES SEE SHEET NO. SI-1
- WHITE BUTTON-TYPE DEMOUNTABLE COPY SHALL BE USED FOR LEGEND AND BORDER ON INTERSTATE SHIELDS

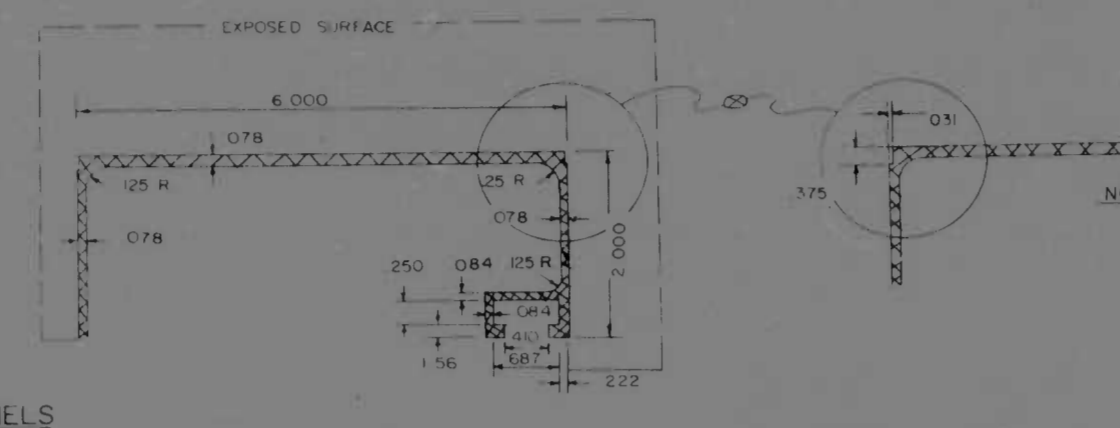
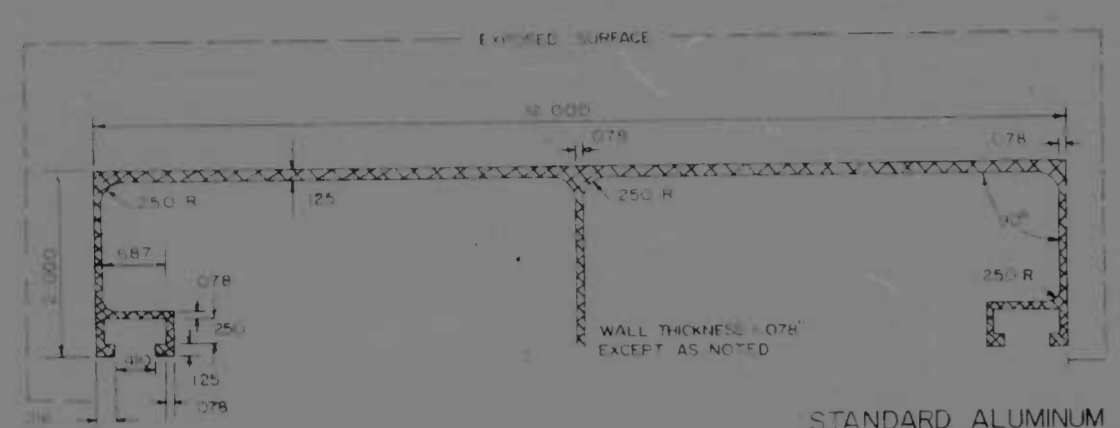
- BLACK BUTTON-TYPE DEMOUNTABLE COPY SHALL BE USED FOR LEGEND & BORDER ON MD SHIELDS AND US SHIELDS
- REFLECTOR BUTTONS SHALL BE USED FOR ARROWS
- ALL DIMENSIONS ARE INCHES



ARROW NO.	A	B	C	D	E	F	R
A-1	15 1/8	11 9/16	3 3/4	5	1 5/16	24 1/4	13/16
A-2	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4
A-3	22 1/4	17	5 3/8	7 1/8	1 3/4	36 5/8	1
A-4	11 1/4	8 3/4	3 1/8	3 7/8	7/8	18 1/4	5/8
B-1	14 1/4	9 13/16	3 5/8	4 1/2	1 5/16	17 1/4	3/4
B-2	17 1/2	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	7/8
B-3	21 7/8	14 1/4	5	6 3/4	1 3/4	25	1
B-4	8 7/16	5 7/16	2 5/16	2 15/16	5/8	9 3/16	1/2
C-1	3 1/2	1 5/8	6 1/2	3	2 1/2	1	
C-2	2 1/2	1 1/2	5	2 1/4	1 1/2	3/4	

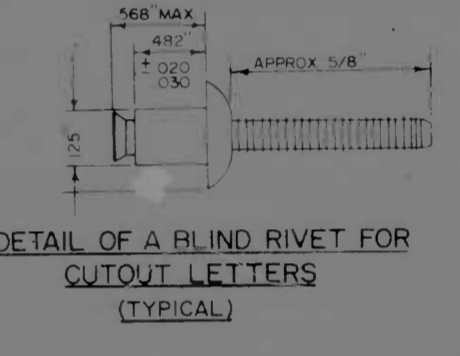
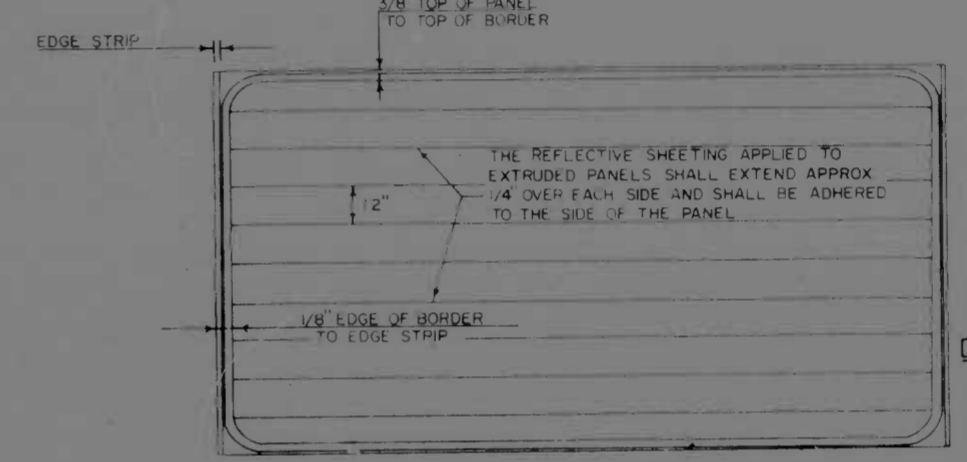
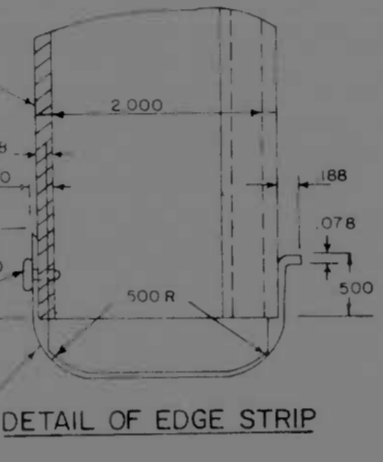
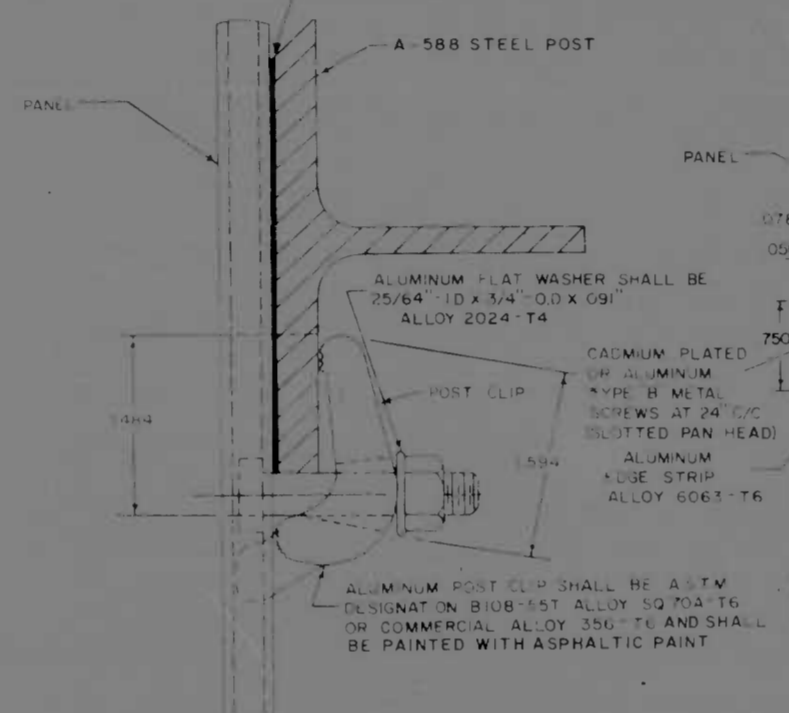
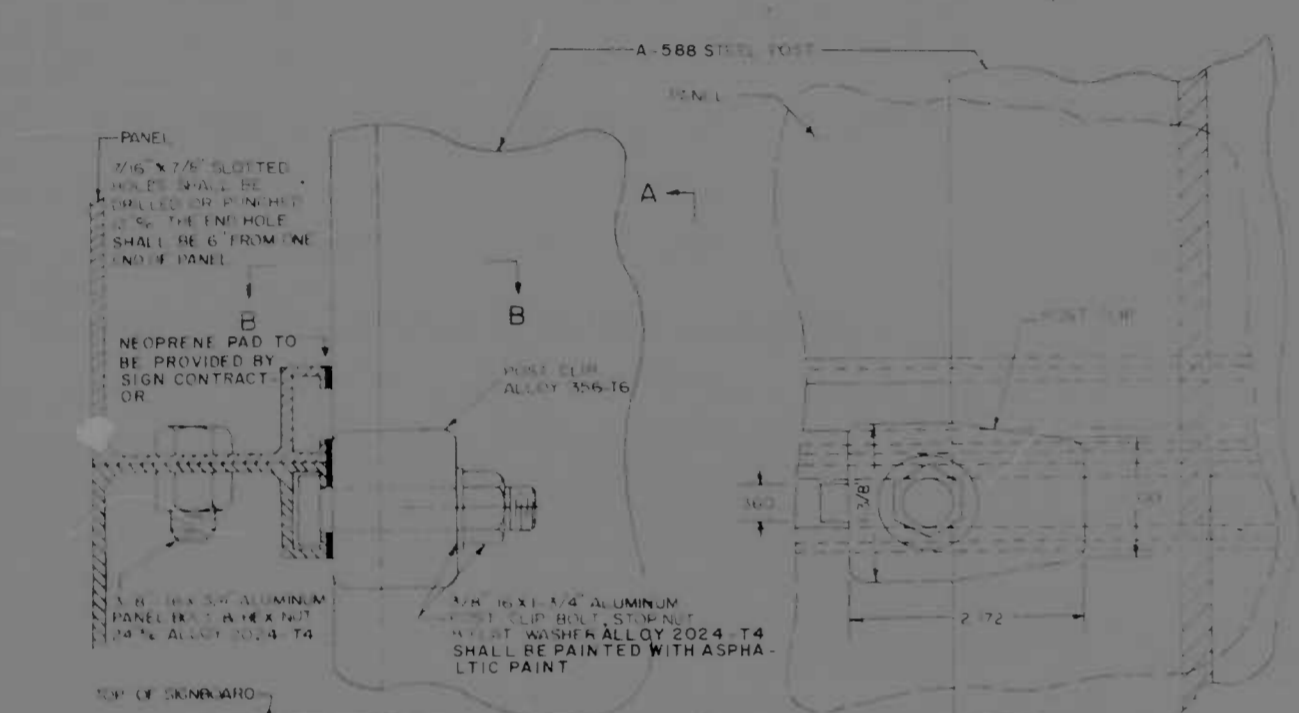
* INDICATES NO ROUNDOFF ON TIP OF ARROW

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KHERRILL HENDER STONE & ASSOC., INC. MAY 1973	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY SRC B.A.L. CHECKED BY SRC B.A.L. DATE MAY 1973

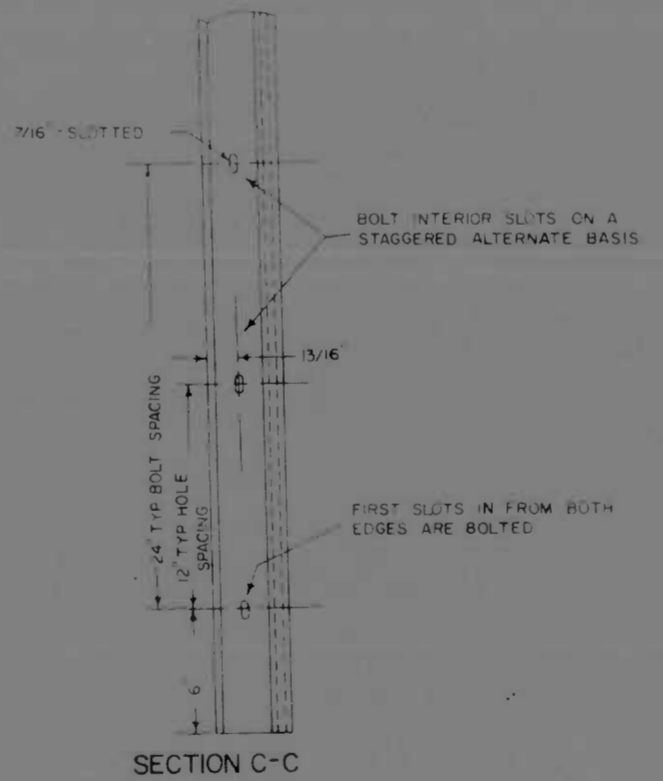
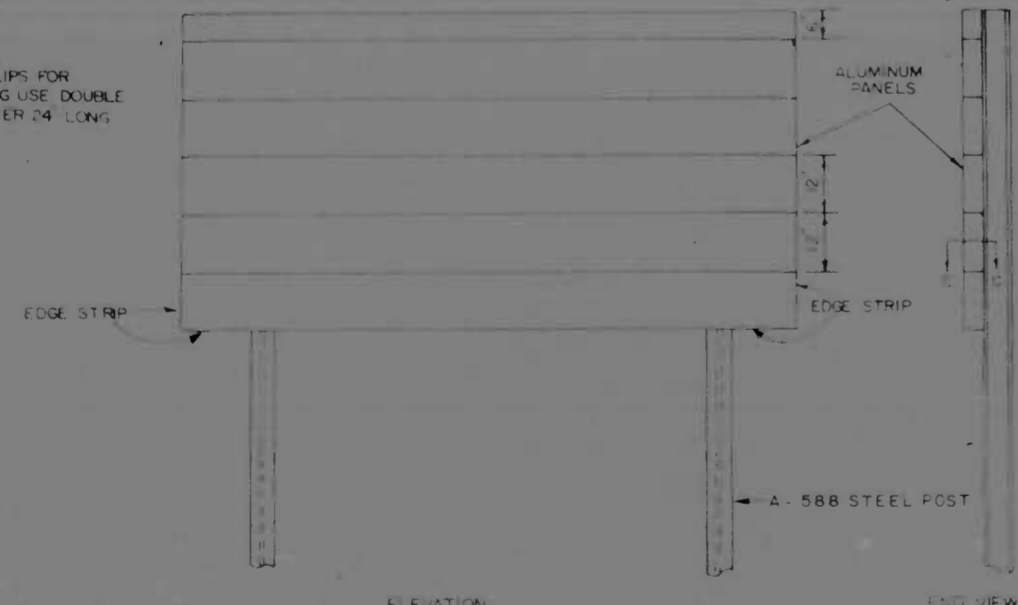
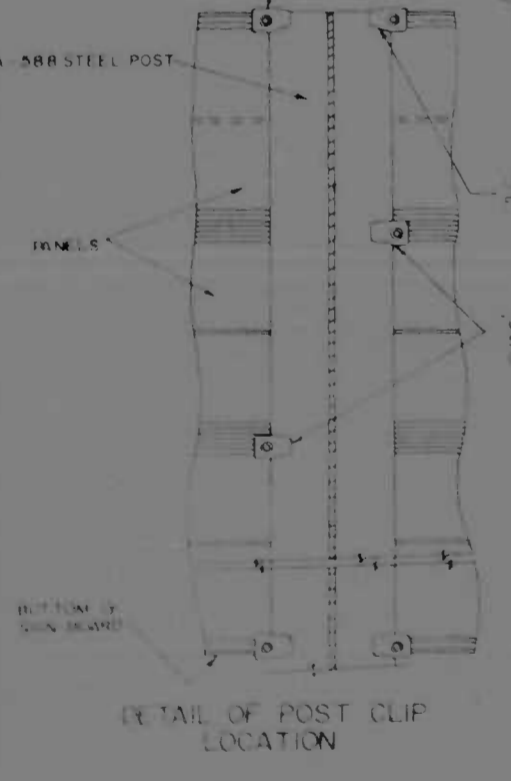


NOTE
ALUMINUM PANELS MAY HAVE SQUARE CORNERS OR NOTCHED CORNERS AS SHOWN NO OTHER TYPES CORNERS ARE ACCEPTABLE.

STANDARD ALUMINUM SIGN PANELS
ALLOY 6061-T6



SECTION A-A
SECTION B-B
DETAILS FOR ASSEMBLING SIGN PANELS



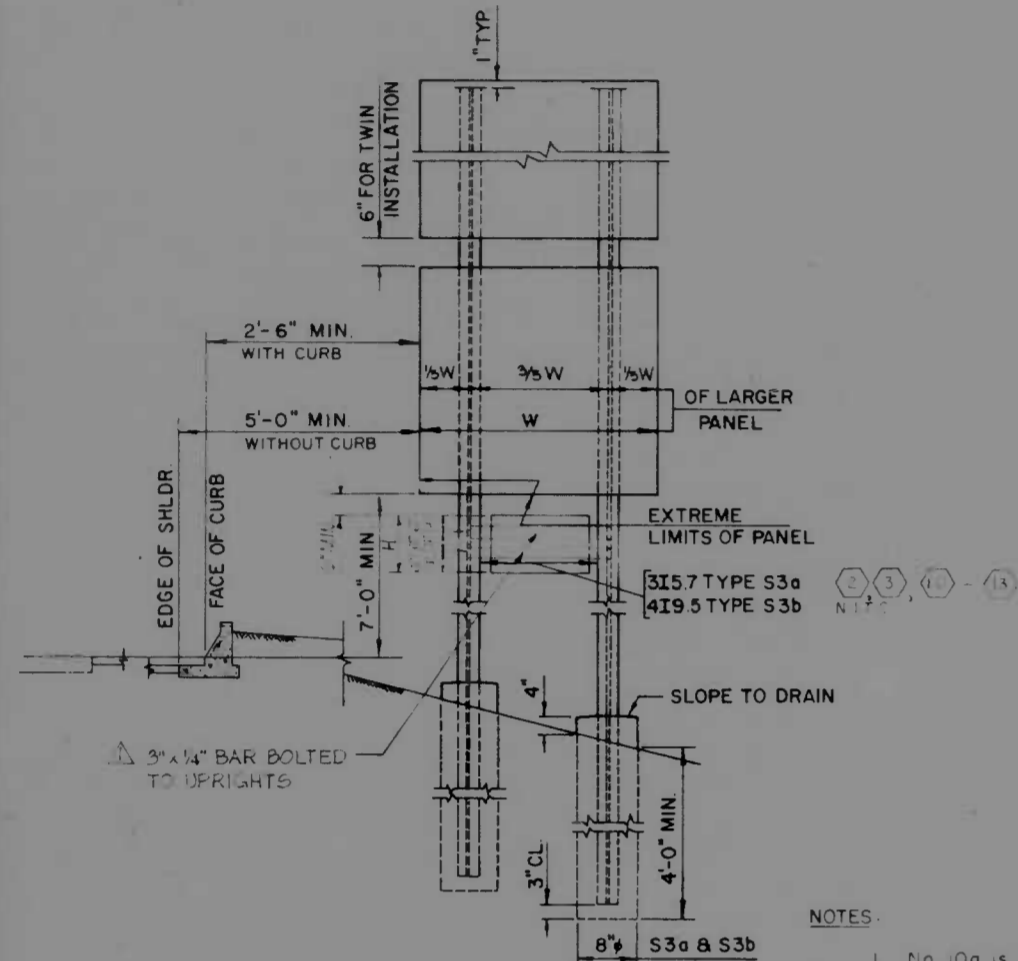
TYPICAL ASSEMBLY OF EDGE STRIP, BORDER AND REFLECTIVE BACKGROUND

- NOTES:
- NO MORE THAN ONE 6\"/>

POST CLIP BOLT

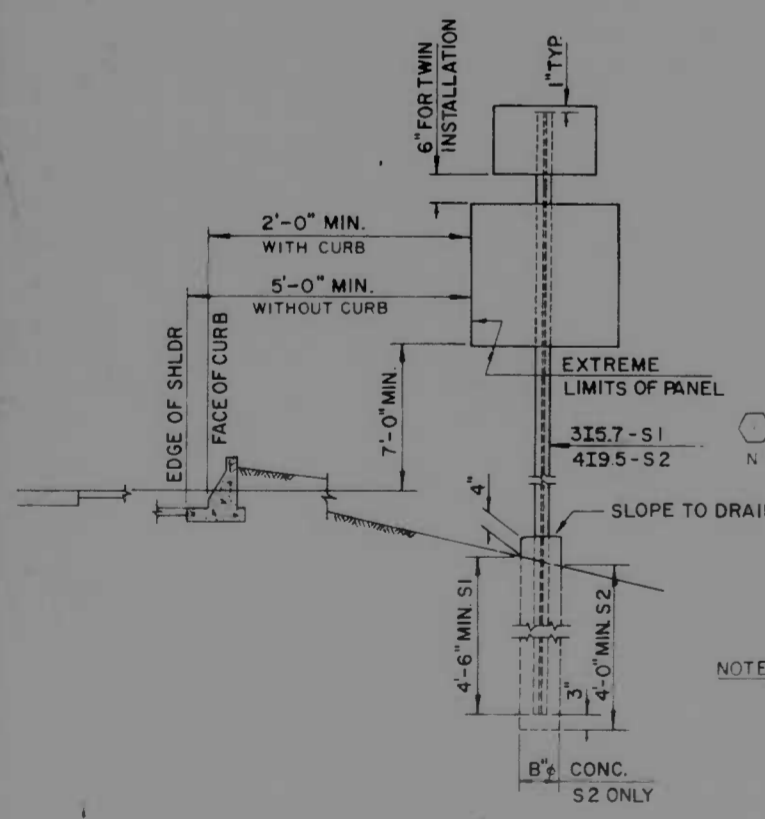
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ALL PROJECTS, 1000 N. CALVERT ST., BALTIMORE, MD. 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: S.R.C.B. SM TRACED BY: S.R.C.B. SM F.A.P. NO. 1-95-4(89)34 SHEET NO. BC 246-36-815 BALTIMORE, 1998
		SCALE: NONE	DATE: MAY 11, 1973 SHEET NO. SI-12 OF SI-17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	SI-13	(119) SI-17



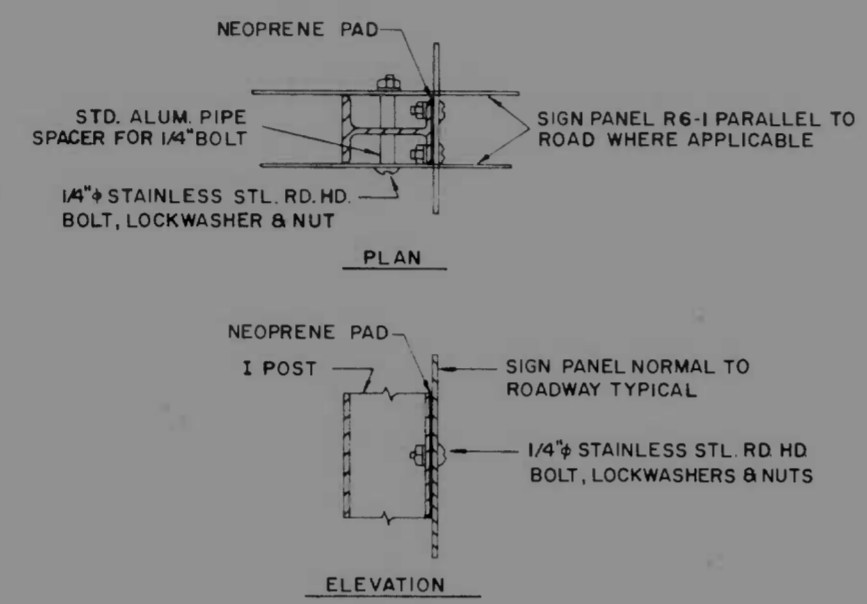
TYPES S3a & S3b

- NOTES:**
- No. 10a is to be mounted on the retaining wall structure. See Detail on Sheet No. S-35
 - No. 3a is to be attached to vertical support of overhead sign structure. See Detail on Sheet No. S-32

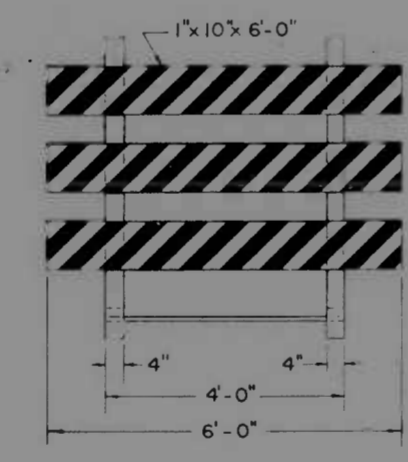


TYPES S1 & S2

- NOTES:**
- No. 19a is to be mounted on retaining wall structure. See Details on Sheet No. S-35

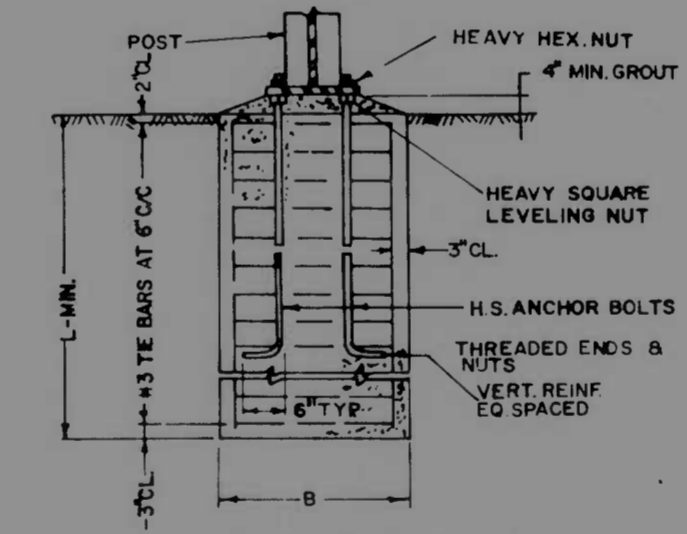
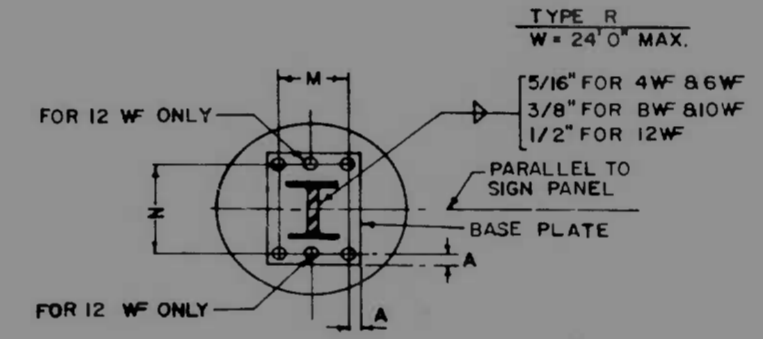
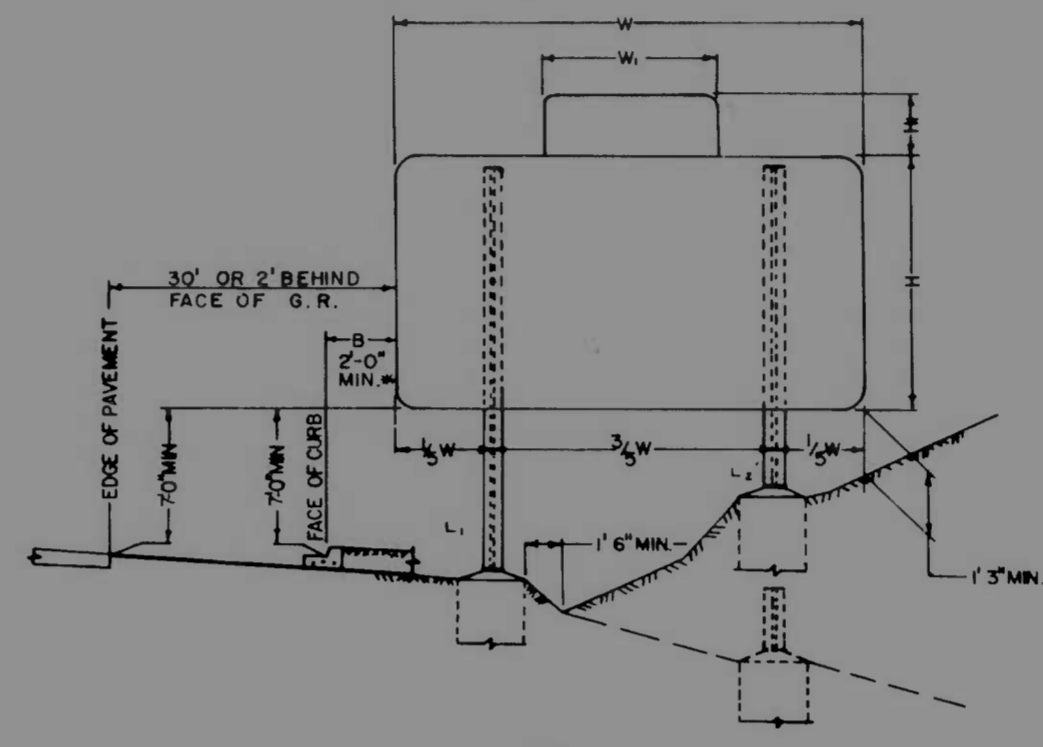


**SIGN PANEL CONNECTION
TYPES S1, S2, S3a & S3b**



**TEMPORARY PORTABLE SUPPORT
WOODEN SIGN SUPPORT**

NOTE:
ORANGE REFLECTORIZED STRIPE ON WHITE REFLECTORIZED BACKGROUND NOT LESS THAN 4\"/>



**TYPICAL FOUNDATION
OTHER THAN BREAKAWAY
N.I.T.C.**

- 2 SAND BAGS SHALL BE PLACED ON EACH CROSS MEMBER FOR STABILIZATION

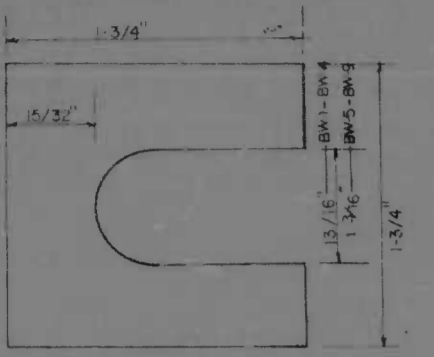
N. I. T. C.

FOUNDATION SCHEDULE - Type R									
SUPPORT TYPE	POST SIZE	BASE PLATE	M	N	A	ANCHOR BOLTS	D	L	VERT REINF
R-1	4WF-13	10 x 11 x 1	5 1/2	8 1/2	2 1/2	4-3/8 x 4-0	2'-0"	4'-0"	B-No 7
R-2	6WF-15 1/2	12 x 14 x 1 1/2	7 1/2	10 1/2	2 1/2	4-1/2 x 5-3	2'-6"	6'-0"	12-No 7
R-3	6WF-20	12 x 14 x 1 1/2	7 1/2	10 1/2	2 1/2	4-1/2 x 5-3	2'-6"	6'-0"	12-No 7
R-4	6WF-25	12 x 14 x 1 1/2	7 1/2	10 1/2	2 1/2	4-1/2 x 5-3	2'-6"	6'-0"	12-No 7
R-5	6WF-31	12 x 14 x 1 1/2	7 1/2	10 1/2	2 1/2	4-1/2 x 5-3	2'-6"	6'-0"	12-No 7
R-6	8WF-35	15 x 18 x 1 1/2	9 1/2	13 1/2	2 1/2	4-1/2 x 6-6	2'-6"	7'-0"	12-No 7
R-7	8WF-40	15 x 18 x 1 1/2	9 1/2	13 1/2	2 1/2	4-1/2 x 6-6	2'-6"	7'-0"	12-No 7
R-8	10WF-45	14 x 21 x 1 1/2	9 1/2	16 1/2	2 1/2	4-1/2 x 7-6	3'-0"	8'-0"	13-No 8
R-9	10WF-49	14 x 21 x 1 1/2	9 1/2	16 1/2	2 1/2	4-1/2 x 7-6	3'-0"	8'-0"	13-No 8
R-10	12WF-50	18 x 24 x 2'-0"	15	19	2 1/2	6-1/2 x 8-3	3'-0"	10'-0"	12-No 9

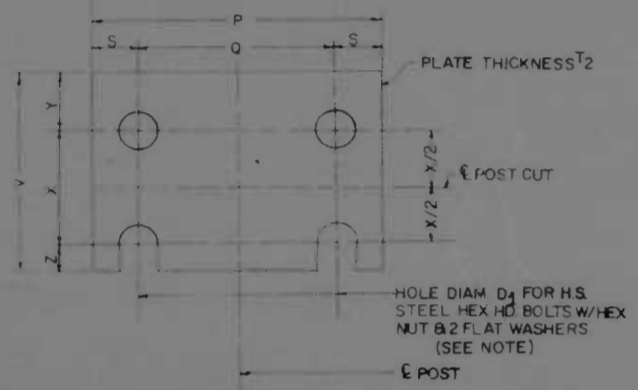
- NOTES:**
- ALL FERROUS METAL MEMBERS AND HARDWARE SHALL BE WEATHERING STEEL IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED
 - FOR GENERAL NOTES, SEE SHEET NO. SI-1

N.I.T.C. = NOT INCLUDED THIS CONTRACT

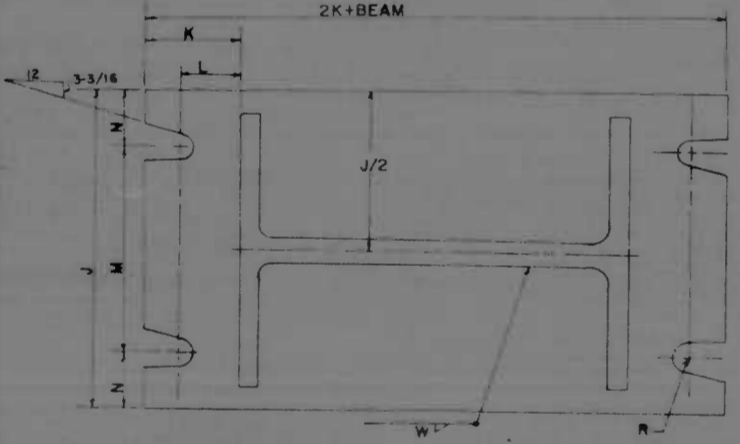
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
REVISOR'S INITIALS DATE	KNOERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY S.R.C. B.A.L. TRACED BY S.R.C. R.M.S.F. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1228
SCALE: NONE	DATE: MAY 11, 1973		DES. BY S.R.C. B.A.L. CHK. BY J.L.C. SHEET NO. (119) SI-13 OF SI-17



SHIM DETAIL
FINISH $2 \times .0125$ THICK AND $2 \times .0325$ THICK SHIMS FOR POST SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM-B36



FUSE PLATE DETAILS
(SEE TABLE FOR DIMENSIONS)



BASE PLATE DETAILS
(SEE TABLE FOR DIMENSIONS)

SECTIONS SHOWN ARE FOR INSTALLATIONS ON RIGHT SHOULDER AND IN GORE PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATIONS ON LEFT SHOULDER

PROCEDURE FOR ASSEMBLY OF BASE PLATE CONNECTION

1. ASSEMBLE POST TO STUB WITH BOLTS AND WITH ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES.
2. SHIM AS REQUIRED TO PLUMB POST.
3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" TO 15" WRENCH TO BED WASHERS AND SHIMS AND TO CLEAN BOLT THREADS THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE TABLE) DO NOT OVER TIGHTEN.

FABRICATION NOTE

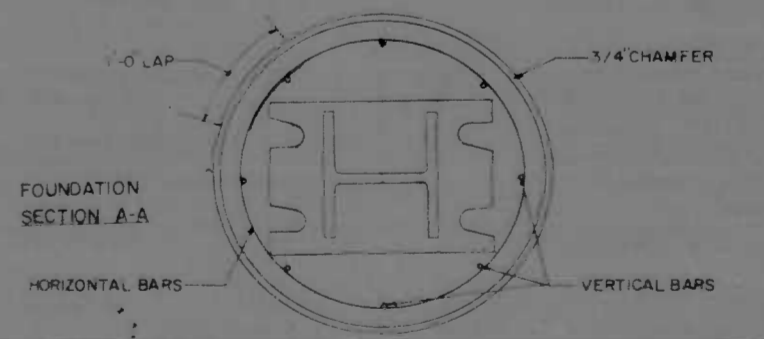
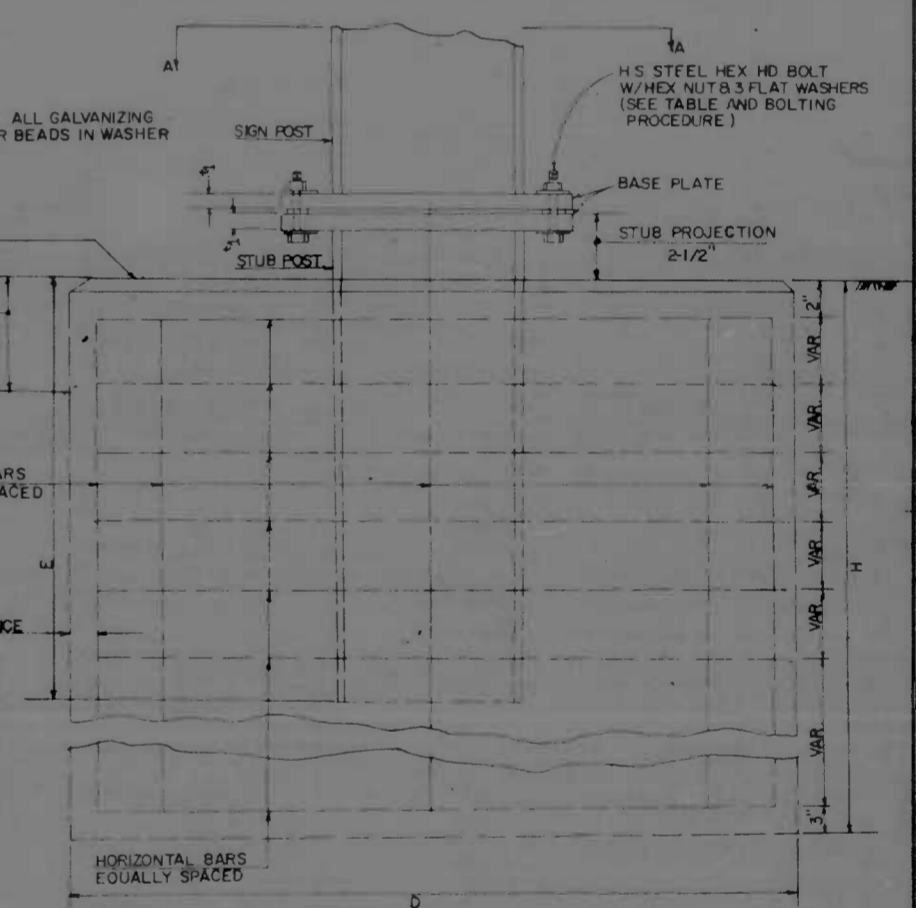
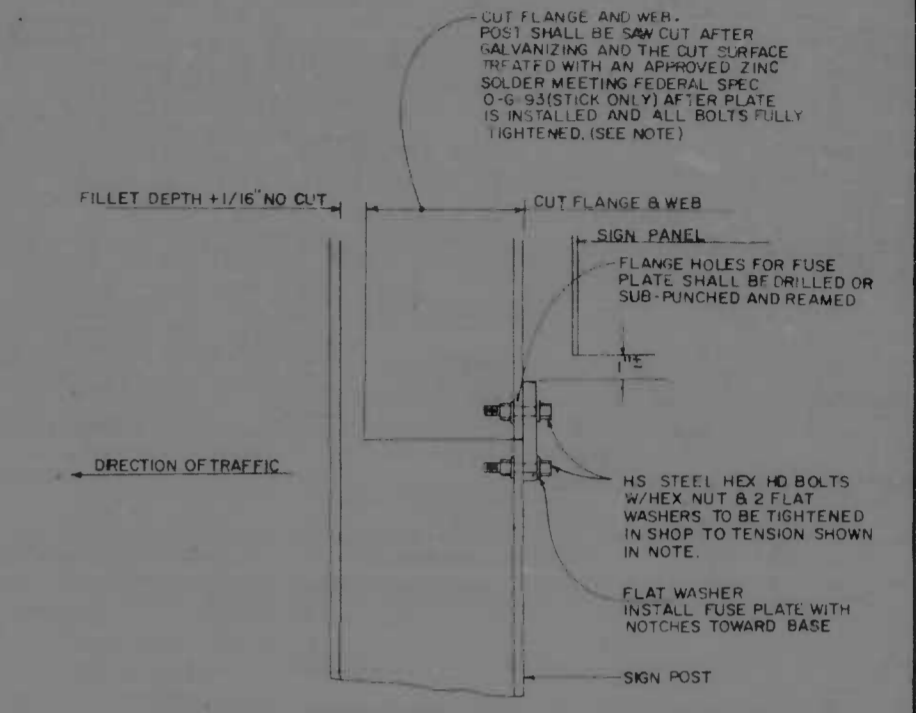
ALL FUSE PLATE BOLTS SHALL BE TIGHTENED IN THE SHOP FOLLOWING A METHOD APPROVED BY THE ENGINEER TIGHTENING SHALL BE TO SUCH A DEGREE AS TO OBTAIN THE FOLLOWING MINIMUM RESIDUAL TENSION IN EACH BOLT

BOLT SIZE	MIN RESIDUAL TENSION
1/2" Ø	12,050 LBS
5/8" Ø	19,200 LBS
3/4" Ø	28,400 LBS
7/8" Ø	36,050 LBS
1" Ø	47,250 LBS
1 1/8" Ø	56,450 LBS

NOTE: DO NOT OVER TIGHTEN

NOTES

1. ALL STRUCTURAL STEEL SHALL CONFORM TO REQUIREMENTS FOR ASTM-A588
2. FUSE PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A588 ALL HOLES SHALL BE DRILLED ALL PLATE CUTS SHALL BE PREFERABLY SAW CUTS, HOWEVER, FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE TOLERATED.
3. ALL STRUCTURAL STEEL, BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ASTM-A588
4. POST LENGTHS AS SHOWN ON THE PLANS INCLUDE BOTH SIGN POST & STUB WHICH IS SET IN THE CONCRETE FOOTING
5. ALL WELDING MATERIALS AND METHODS INCLUDING QUALIFICATIONS OF WELDERS SHALL CONFORM WITH THE REQUIREMENTS OF APT-34 OF MD SPECIFICATIONS, MARCH 1968

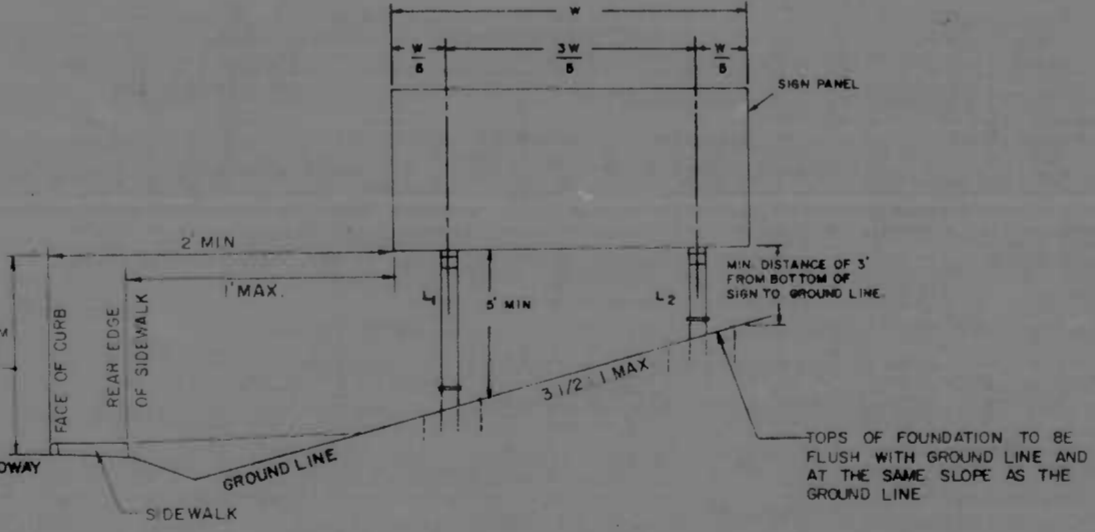


NOTES

1. FOR GENERAL NOTES SEE SHEET NO. SI-1
2. FOR GUIDE SIGN SUPPORT TYPES SEE SHEET NO. SI-2
3. FOR GUIDE SIGN PANEL DETAILS SEE SHEETS NO. SI-6, SI-7, A, SI-8

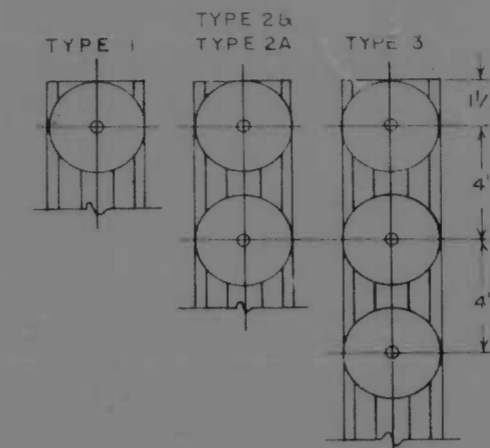
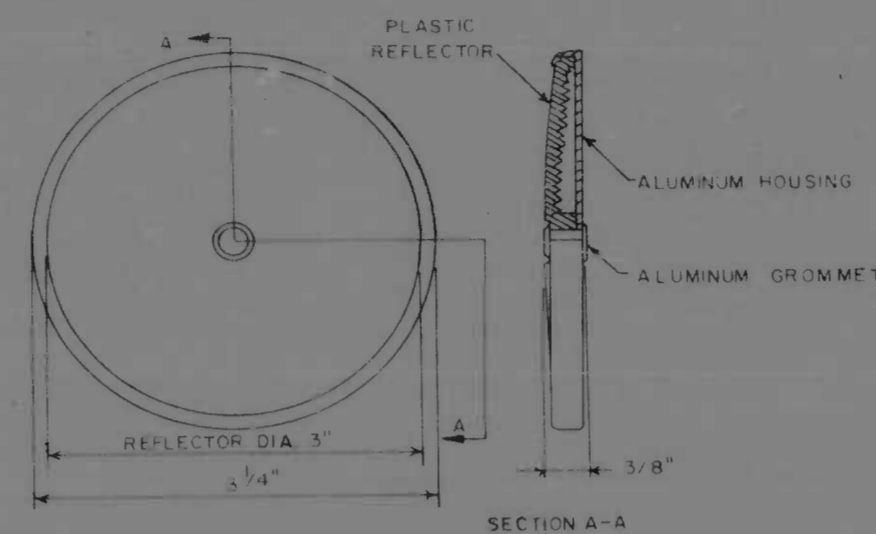
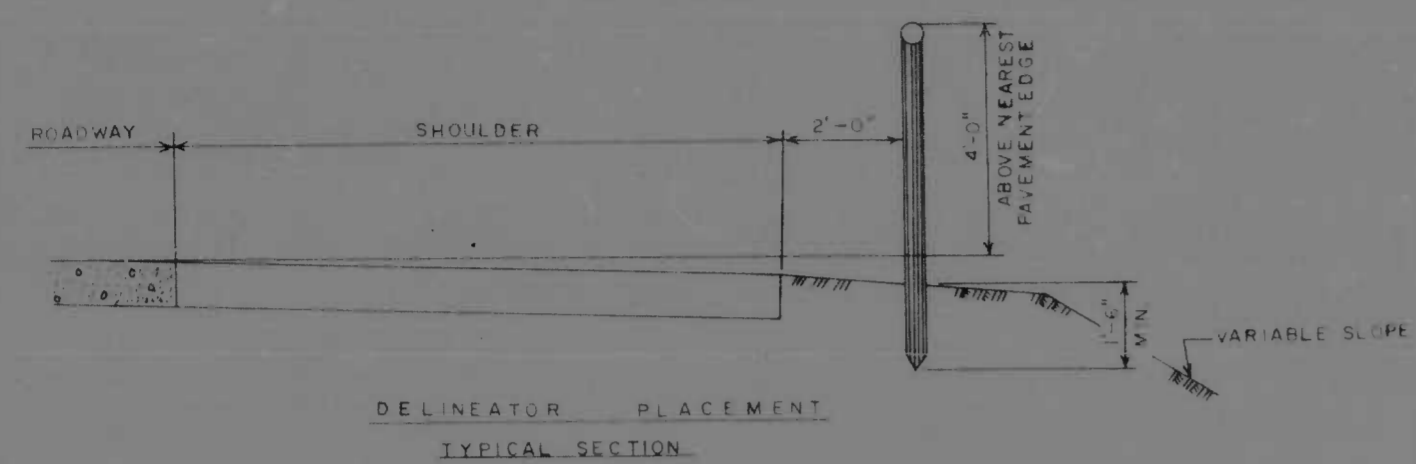
SUPPORT TYPE	POST	NO. POSTS
BW 1	4" WF 13	2
BW 2	6" WF 15.5	2
BW 3	6" WF 20	2
BW 4	6" WF 25	2
BW 5	8" WF 31	2
BW 6	8" WF 35	2
BW 7	8" WF 40	2
BW 8	10" WF 45	2
BW 9	10" WF 49	2

MAX DISTANCE OF 3' FROM BOTTOM OF SIGN ABOVE ROADWAY EDGE

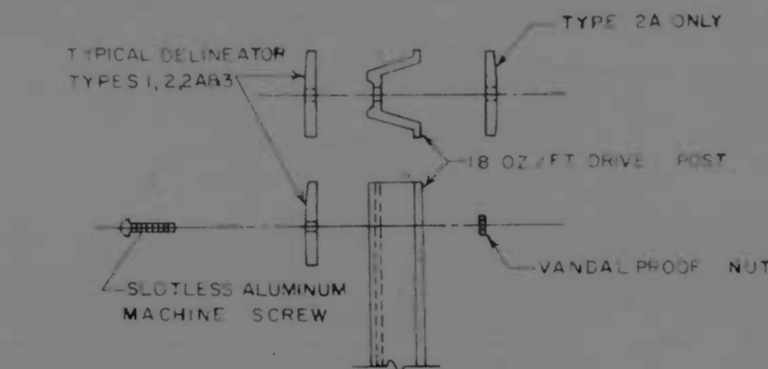
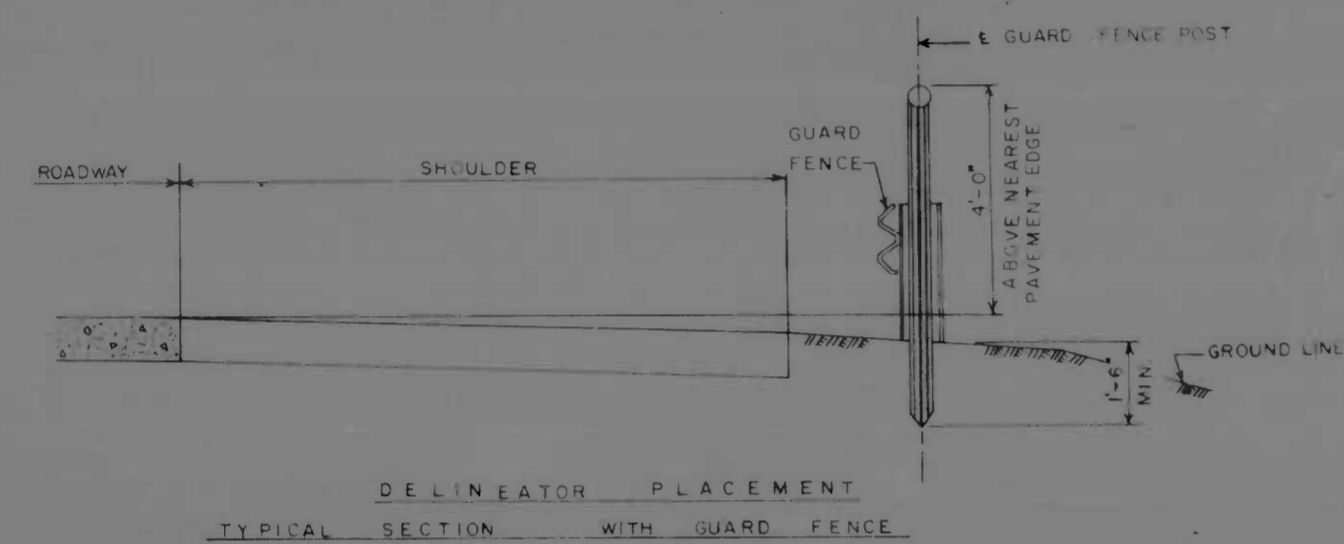


POST HEIGHT	BASE PLATE DATA TABLE										FUSE PLATE DATA TABLE										FOUNDATION DATA TABLE									
	BOLT SIZE	BOLT TORQUE	V	A	L	M	N	T	W	R	P	Q	S	V	X	Y	Z	BOLT DIAM	D	H	E	VERT BARS	HORIZ BARS	CLASS & CONC.	REINFORCING STEEL					
3' WF 13	3/4" Ø 13	110 FT LBS	5'	2"	1-1/4"	1-3/4"	1-1/8"	3/4"	1/4"	7/16"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/8"	5/8"	3/8"	1/2"	9/16"	18'	6'-6"	1'-6"	6" #6	6" #4	36 CU YDS	65 LBS			
6' WF 20	3/4" Ø 13	110 FT LBS	5'	2"	1-1/4"	1-3/4"	1-1/8"	3/4"	1/4"	7/16"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/8"	5/8"	3/8"	1/2"	9/16"	25'	8'-6"	2'-6"	8" #7	7" #4	76 CU YDS	129 LBS			
6' WF 25	3/4" Ø 13	110 FT LBS	7'	2-1/8"	1-1/4"	1-3/4"	1-3/4"	3/4"	5/16"	7/16"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/4"	5/8"	1/2"	3/4"	13/16"	28'	10'-0"	2'-6"	8" #7	8" #4	82 CU YDS	174 LBS			
8' WF 31	3/4" Ø 13	110 FT LBS	9'	2-3/4"	1-5/8"	1-3/4"	1-3/4"	3/4"	5/16"	9/16"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/2"	7/8"	1/2"	7/8"	15/16"	29'	8'-6"	3'-0"	8" #7	9" #4	99 CU YDS	316 LBS			
8' WF 35	3/4" Ø 13	110 FT LBS	9'	2-3/4"	1-5/8"	1-3/4"	1-3/4"	3/4"	5/16"	9/16"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/2"	7/8"	1/2"	7/8"	15/16"	29'	8'-6"	2'-0"	8" #7	10" #4	105 CU YDS	328 LBS			
8' WF 40	3/4" Ø 13	110 FT LBS	11'	3"	1-3/4"	1-3/4"	1-3/4"	3/4"	5/16"	5/8"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/2"	7/8"	1/2"	10" #4	111 CU YDS	428 LBS	24'	9'-6"	2'-0"	8" #7	10" #4	111 CU YDS	428 LBS		
10" WF 45	1/2" Ø 13	138 FT LBS	11'	3"	1-3/4"	1-3/4"	1-3/4"	3/4"	5/16"	5/8"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/2"	7/8"	1/2"	10" #4	112 CU YDS	467 LBS	30'	10'-0"	3'-6"	10" #7	11" #4	112 CU YDS	567 LBS		
10" WF 49	1/2" Ø 13	138 FT LBS	11'	3"	1-3/4"	1-3/4"	1-3/4"	3/4"	5/16"	5/8"	4'	2-1/4"	7/8"	4"	2-1/4"	1-1/2"	7/8"	1/2"	10" #4	113 CU YDS	595 LBS	30'	10'-6"	3'-6"	10" #7	11" #4	113 CU YDS	595 LBS		

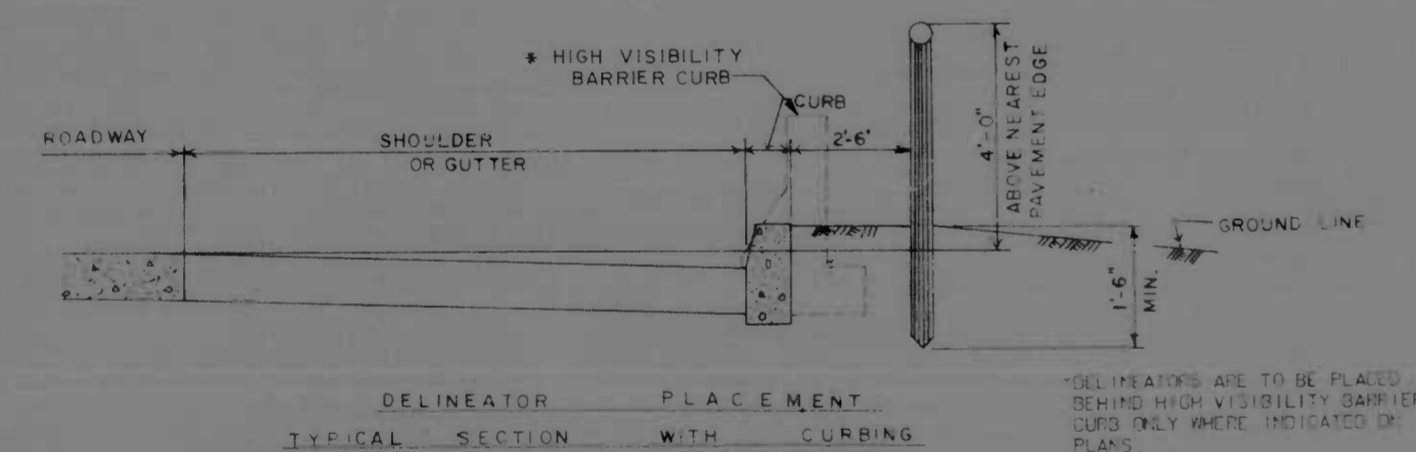
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KIMBERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY SRC B S M TRACED BY SRC B S M FAP NO. 1.95-4(39) 14 SRC NO. BC 246-141-815 BALTO CITY NO. 1978
			DESIGN BY SRC B D G M CHK. BY J L C SHEET NO. (119) SI-14 OF SI-17



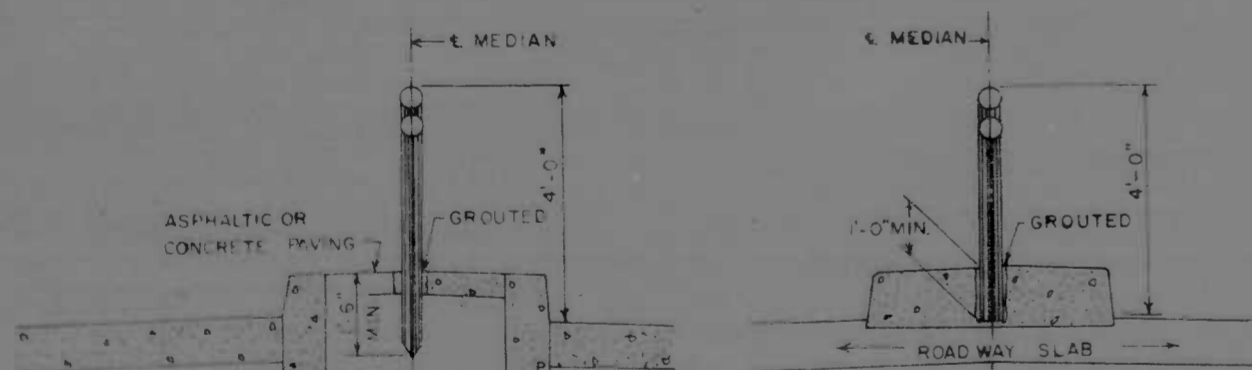
TYPE	SYMBOL	DESCRIPTION	LOCATION
1	●	SINGLE WHITE	MAINLINE OF PROJECT
2	●●	DOUBLE AMBER	RAMPS AND RAMP TRANSITIONS
2A	●●	BIDIRECTIONAL DOUBLE AMBER	TWO-WAY RAMP MEDIAN
3	●●●	TRIPLE AMBER	END OF ACCELERATION LANES



RADIUS OF CURVE (FEET)	DELINEATOR SPACING ON RAMP HORIZONTAL CURVES			
	SPACING ON CURVE	SPACING IN ADVANCE AND BEYOND CURVE		
		1ST	2ND	3RD
50'	20'	40'	65'	125'
100'	25'	50'	75'	150'
150'	30'	60'	90'	180'
200'	35'	70'	110'	215'
250'	40'	85'	125'	250'
300'	50'	95'	145'	280'
350'	50'	100'	155'	300'
400'	55'	110'	170'	300'
450'	60'	120'	180'	300'
500'	65'	125'	190'	300'
550'	65'	135'	200'	300'
600'	70'	140'	210'	300'
650'	75'	145'	220'	300'
700'	75'	150'	230'	300'
750'	80'	160'	240'	300'
800'	80'	165'	245'	300'
850'	85'	170'	255'	300'
900'	85'	175'	260'	300'
950'	90'	180'	270'	300'
1 000'	90'	185'	275'	300'
1 050'	95'	190'	285'	300'
1 100'	95'	195'	290'	300'
OVER 1 150'	100'	200'	300'	300'



* DELINEATORS ARE TO BE PLACED BEHIND HIGH VISIBILITY BARRIER CURB ONLY WHERE INDICATED ON PLANS.

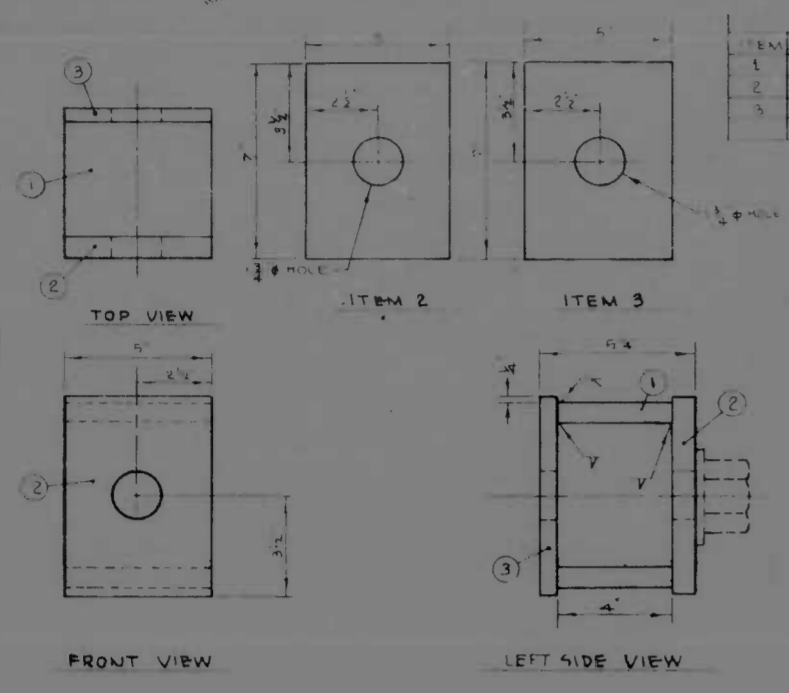


NOTE: WHEN CALLED FOR ON PLAN SHEETS, EXISTING PIPE SLEEVES OR SOCKETS MAY BE USED TO MOUNT DELINEATORS.

NOTES

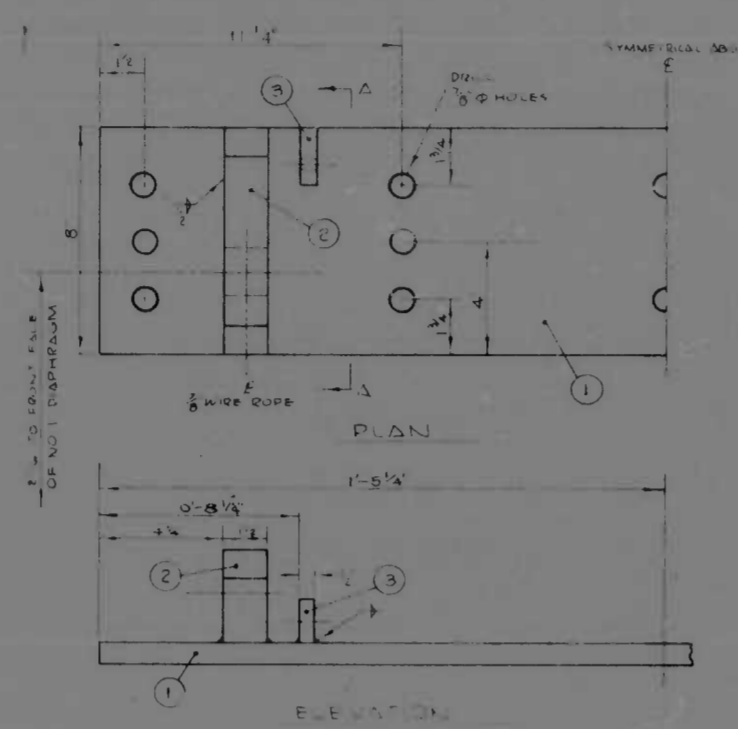
- DELINEATORS ARE NOT INTENDED FOR USE BEHIND HIGH VISIBILITY BARRIER CURBS UNLESS INDICATED ON THE PLANS.
- TYPE 1 DELINEATORS, WHEN USED ON RIGHT OF THE THROUGH ROADWAY ARE TO BE SPACED AT 300 FOOT INTERVALS.
- THE DISTANCES BETWEEN THROUGH ROADWAY DELINEATORS, TYPE 1 AND RAMP TRANSITION DELINEATORS, TYPES 2& 2A SHALL BE 100 FEET, MINIMUM AND 300 FT. MAXIMUM.
- DELINEATORS ON ACCELERATION AND DECELERATION LANES AND ON CONNECTING ROADWAYS SHALL BE SPACED AT A MAXIMUM OF 100 FEET.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: S.R.C. B.S.M. TRACED BY: S.R.C. B.S.M. DATE: 1-95-4(39)34 PROJECT: BC 246-36-815 BALTIMORE, 1998
		DATE: MAY 11, 1973	DESIGNED BY: S.R.C. B.S.M. DRAWN BY: J.L.C. SHEET NO. 119 SI-15-SI-17



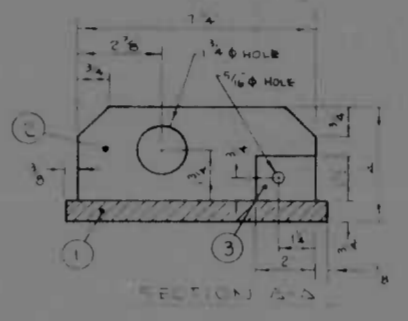
REAR CABLE ANCHOR DETAIL
SCALE 3/4" = 1" TYPE 35-08-01

ITEM	DESCRIPTION	QTY
1	80% 1/2" DIA. X 1/2" THK	1
2	2" X 1/2" X 1/2"	1
3	1/2" X 1/2" X 1/2"	1



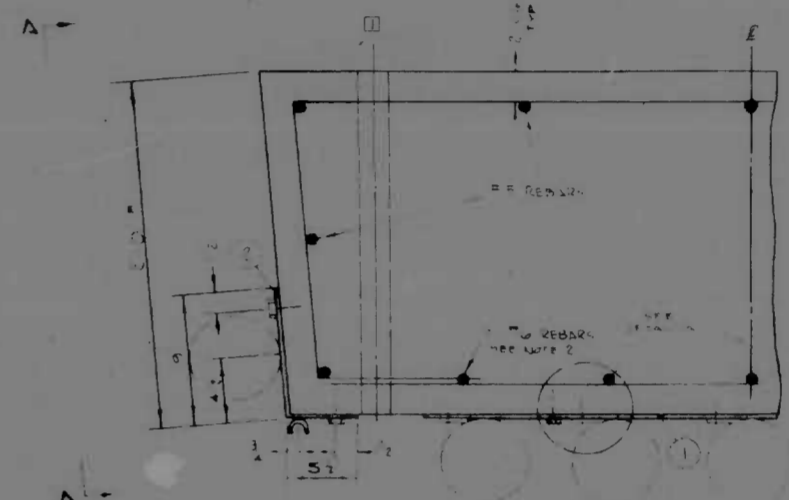
FRONT CABLE ANCHORAGE DETAIL
TYPE A, 35-07-01 SCALE: 3/4" = 1"

ITEM	DESCRIPTION	QTY
1	1/2" X 1/2" X 1/2"	1
2	1/2" X 1/2" X 1/2"	1
3	1/2" X 1/2" X 1/2"	1

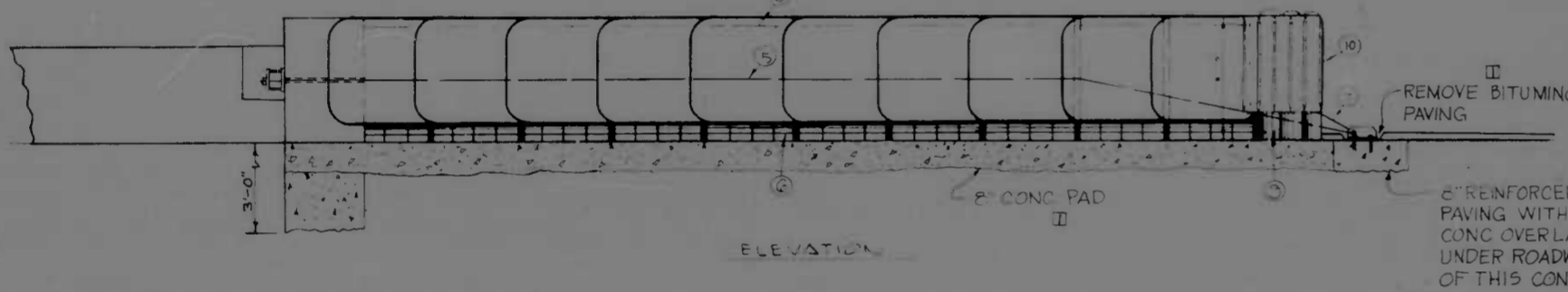


MATERIALS
ASTM-A36+R151-M1020 STEEL
HOT DIP GALV.

ITEM	DESCRIPTION	QTY
1	FR 2" X 1/2" X 1/2"	1
2	2 1/2" X 1/2" X 1/2"	1
3	2 1/2" X 1/2" X 1/2"	1
4	CABLE CLIPS 1/2"	1
5	CABLE CLIPS 1/2"	1
6	1/2" X 1/2" X 1/2"	1

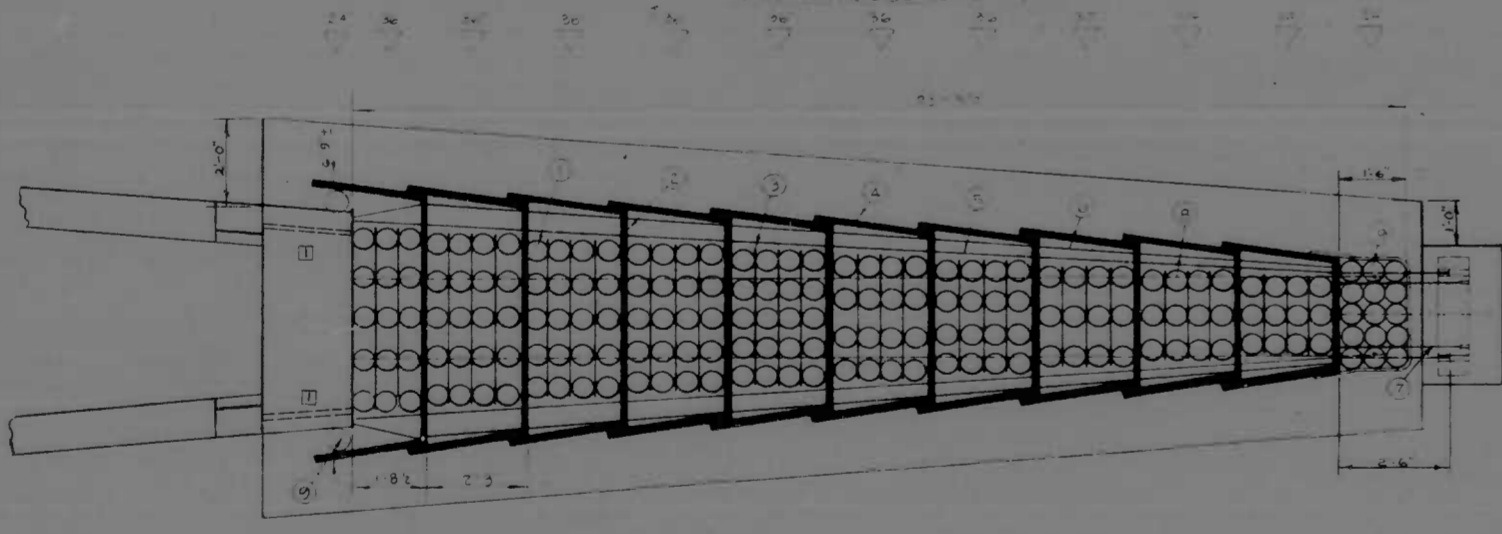


TOP VIEW - TYPE A
MOUNTING STRAPS - SINGLE SIDE CELL



REINFORCED CON-
PAVING WITH 1" BIT
CONC OVERLAY INSTALLED
UNDER ROADWAY PORTION
OF THIS CONTRACT

NOTES
1. SEE PLAN FOR DIMENSIONS
2. SEE PLAN FOR DIMENSIONS
3. SEE PLAN FOR DIMENSIONS
4. SEE PLAN FOR DIMENSIONS

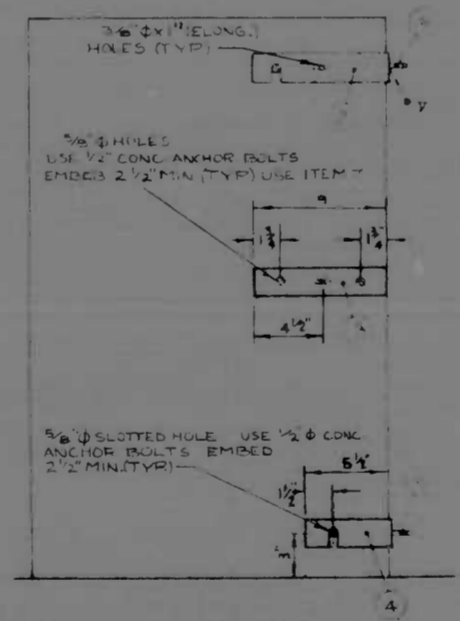


HI-DRO CUSHION
IMPACT ATTENUATOR
MODEL NO. 204 507 5105
SCALE: 3/8" = 1"

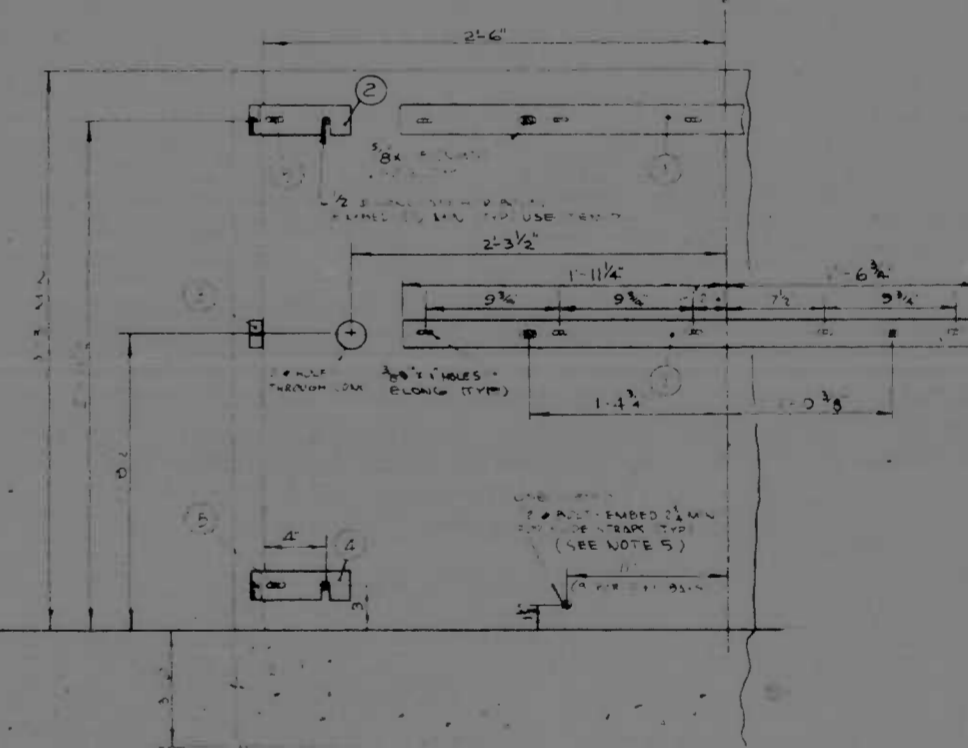
DESIGN CAPACITY 70 MPH
WEIGHT 45,929
ESTIMATED FORCE ON BACKUP STRUCTURE 70 KIPS

LEGEND
1. HI-DRO CUSHION UNIT
2. DEPTH LINE
3. ANCHOR STRAP
4. REINFORCING
5. KEYWAY

NOTES
LOCATION: STA. 315+30 I-95 RT.



VIEW A-A
TYPE A SINGLE SIDE CELL



CONCRETE BACKUP WALL AND MOUNTING STRAPS
FORM MEDIUM WIDTH CELL SANDWICH UNIT SCALE: 1/2" = 1" TYPE 35-09-02

- 1. DIMENSIONS SHOWN FOR THIS UNIT ARE FOR THE UNIT ONLY. ALL DIMENSIONS FOR THE ENTIRE WALL SHALL BE TAKEN FROM THE FACE OF THE WALL.
- 2. VERTICAL REINFORCEMENT SHALL BE PROVIDED FOR THE ENTIRE WALL.
- 3. ALL REINFORCEMENT SHALL BE PROVIDED FOR THE ENTIRE WALL.
- 4. ALL REINFORCEMENT SHALL BE PROVIDED FOR THE ENTIRE WALL.
- 5. ALL REINFORCEMENT SHALL BE PROVIDED FOR THE ENTIRE WALL.
- 6. BACK BLOCK TO BE CONSTRUCTED UNDER ROADWAY PORTION OF CONTRACT. SEE DETAIL ON SHEET NO. T-9.

ENERGY ABSORBING DEVICE NO. 1

REVISIONS	CONSULTANT
II AUGUST 21 1973	WELCH ENGINEERING & ARCHT. INC. CONSULTING ENGINEERS BALTIMORE, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
INTERSTATE ROUTE 95
FROM O'DONNELL STREET
TO WEST OF GUSRYAN STREET
SCALE: AS SHOWN
DATE: MAY 11, 1973

STATE ROADS COMMISSION OF MARYLAND
INTERSTATE DIVISION FOR BALTIMORE CITY
DRAWN BY: WELCH
DES. BY: E.A.S.
TRACED BY: E.A.S.
CHK. BY: G.S.M.
F.A.P. NO. I-95-4(39)34
S.R.C. NO. BC246-36-815
BALTDIST. CITY NO. 1955
SHEET NO. (119)
SI-16 OF SI-17

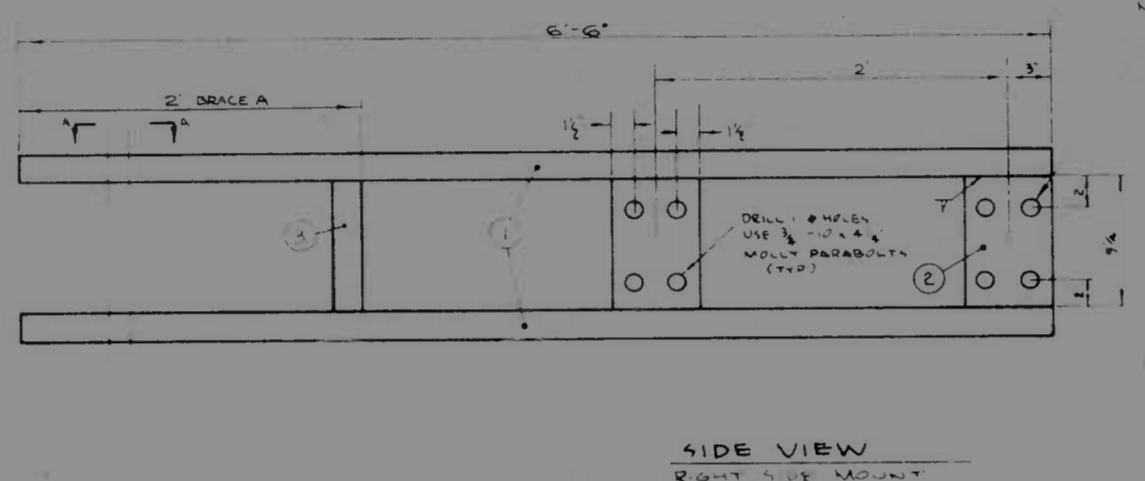
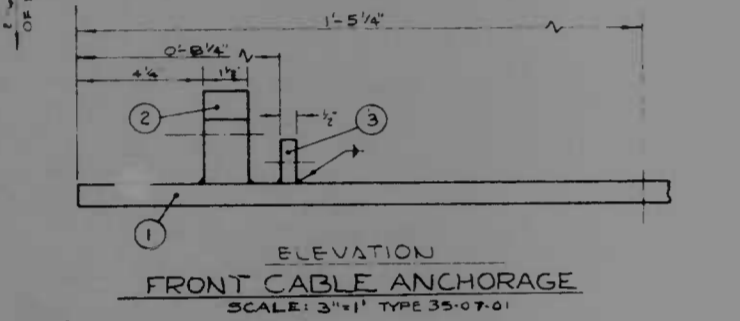
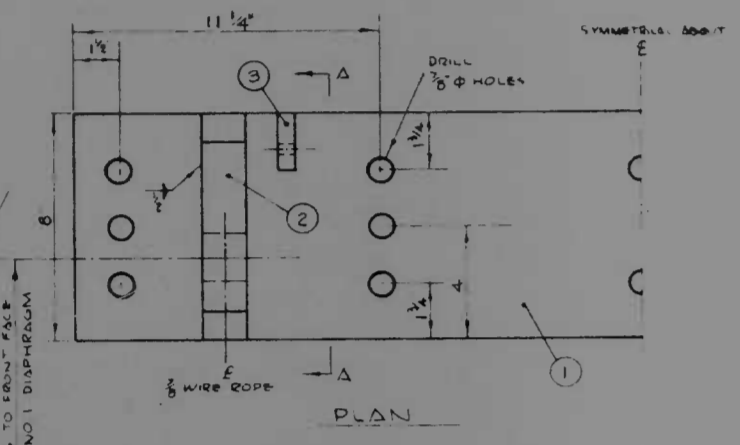
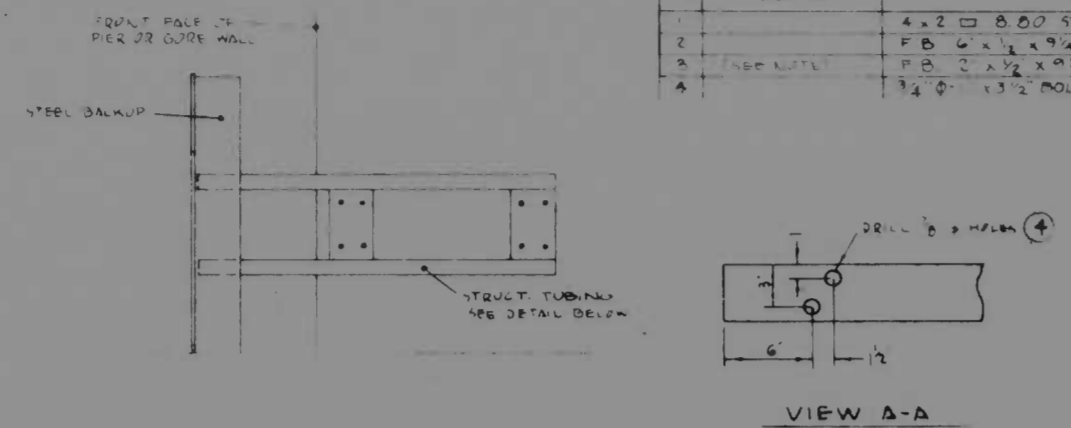
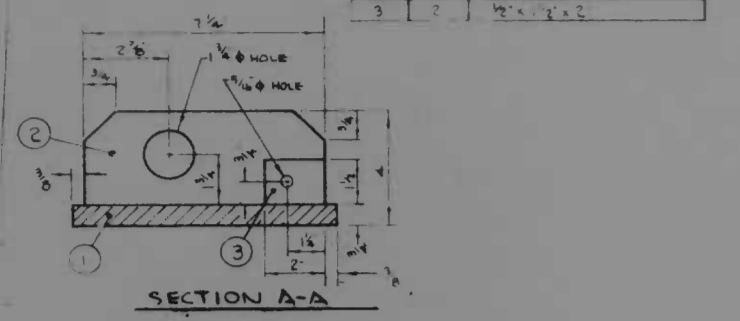
NO. 100-100-100-100-100

ITEM	QUAN.	DESCRIPTION
1	1	1/2" x 8"
2	2	1/2" x 3/4" x 7 1/2"
3	2	1/2" x 1/2" x 2"

ITEM	QUAN.	DESCRIPTION
1	2	4 x 2 x 0.075 STRUCT. TUBING
2	2	FB 6 x 1 x 1/4"
3	2	FB 2 x 1/2 x 1/4"
4	4	3/4" x 3/2" BOLT NUT WASHERS

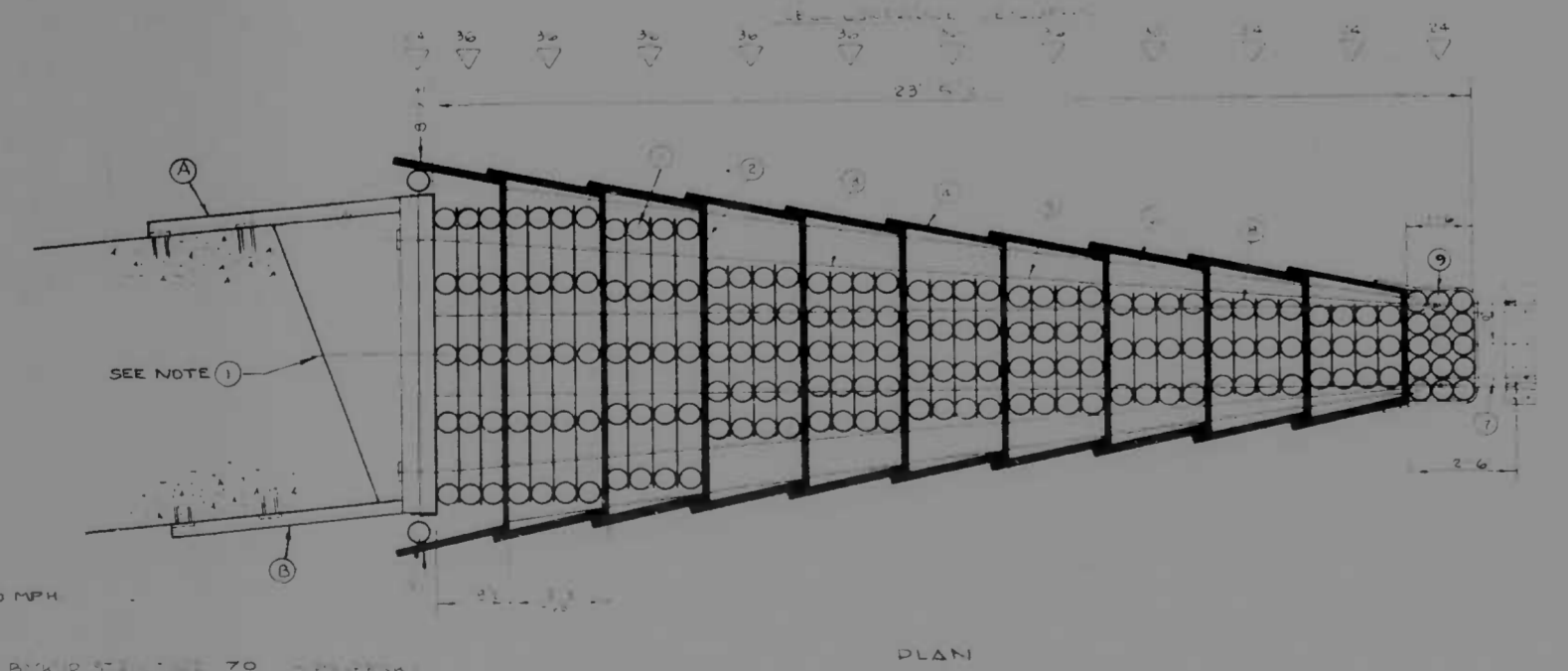
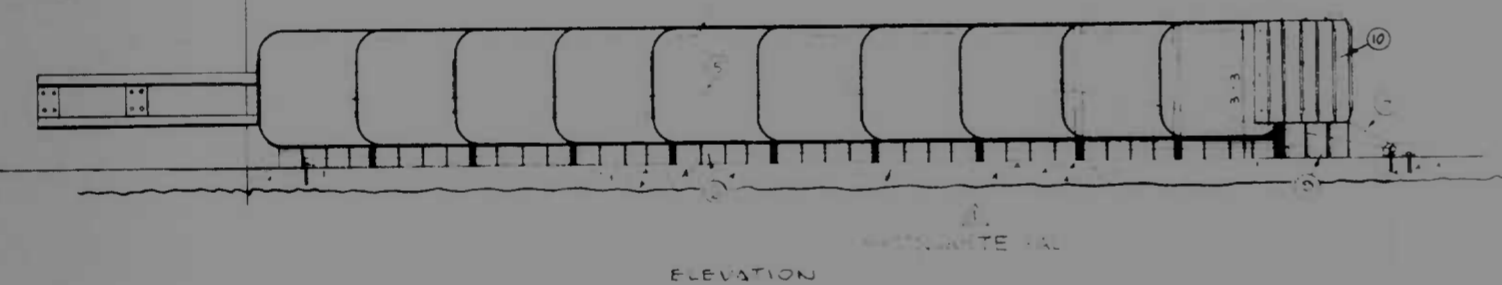
REV.	DATE	BY	DESCRIPTION
2	MD	I-95-4(34)44	SI-17

ITEM	DESCRIPTION	QUAN.
1	R 3-2 1/2 x 1/2 x 7-0	1
2	R 3-1/2 x 1/2 x 7-5	1
3	FLAT BAR 4 x 1/2 x 7-5	1
4	4 x 1/2 x 3-2 1/2	2
5	4 x 1/2 x 1-0 1/2	2
6	4 x 1/2 x 0-8 1/2	2
7	4 x 1/2 x 0-11 1/2	2
8	6 x 1/2 x 1-0 3/4	2
9	9 x 1/2 x 0-8 1/2	2
10	6 x 1/2 x 0-11 1/2	2
11	4 x 1/2 x 0-8 1/2	2
12	3/4" x 10 x 3/2 BOLT NUT WASHERS	8
13	FLAT BAR 3 x 1/2 x 0-5	2
14	3/4" x 1/2 x 0-7	2
15	3/4" x 1/2 x 7-6	1
16	1 x 1/2 x 2 1/2	8
17	OMIT	
18	3/8" x 6 ROUND STOCK x 6'8"	4
19	OMIT	
20	FLAT BAR 2 x 1/2 x 5'	4
21	1/2" x 10 x 1/4 CONE BUSH BOLTS	4
22	SPRUE BOLT W/ WASHER NUT	4



HORIZONTAL BRACE DETAIL SCALE 1/2" = 1'-0"

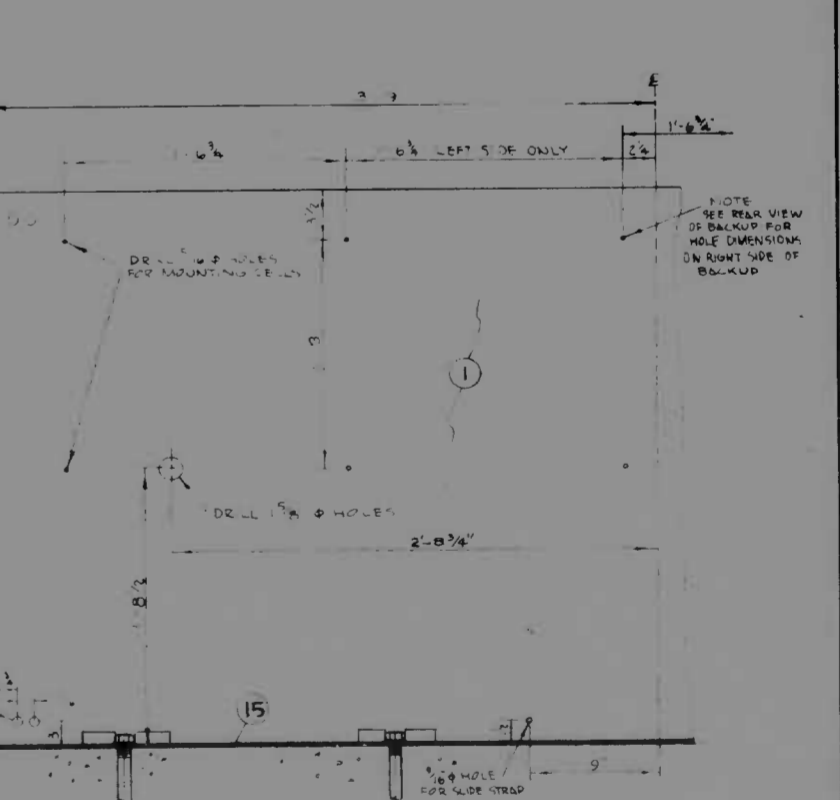
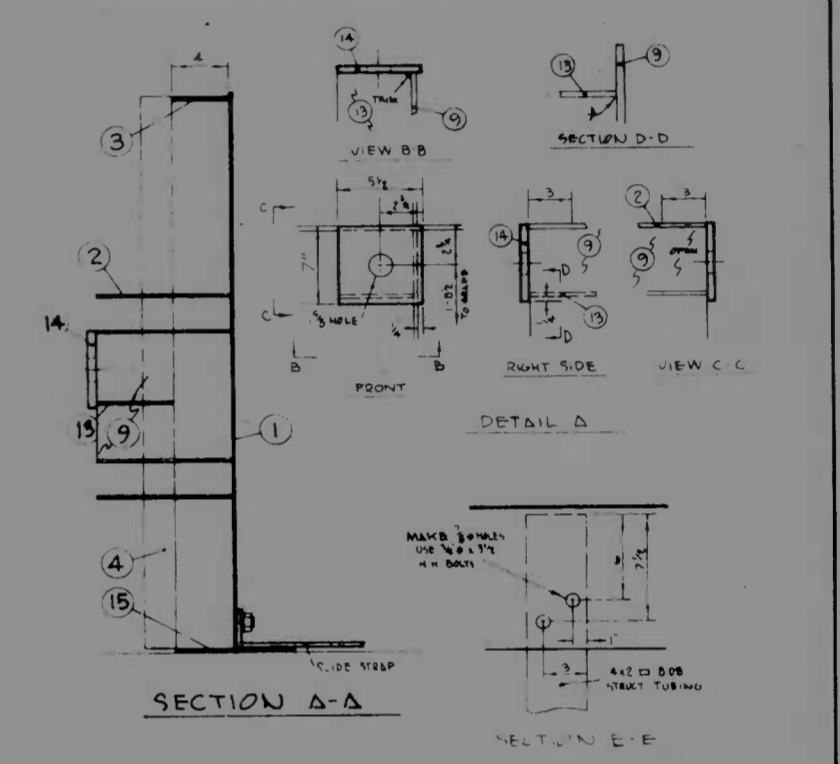
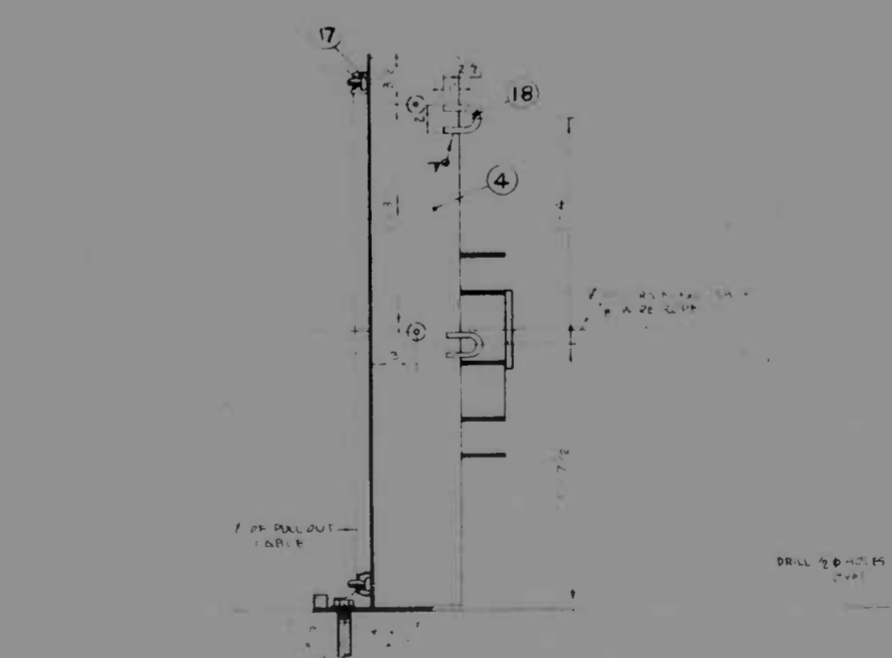
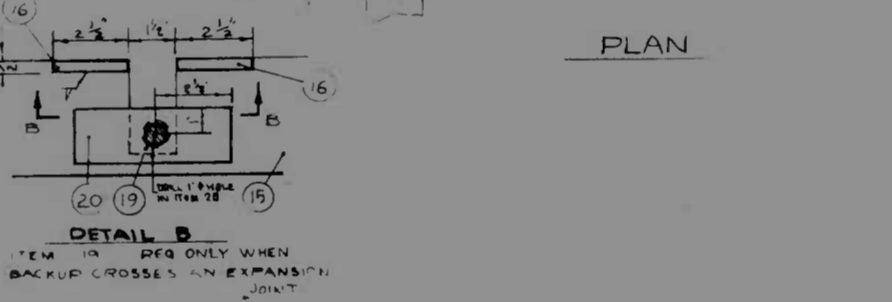
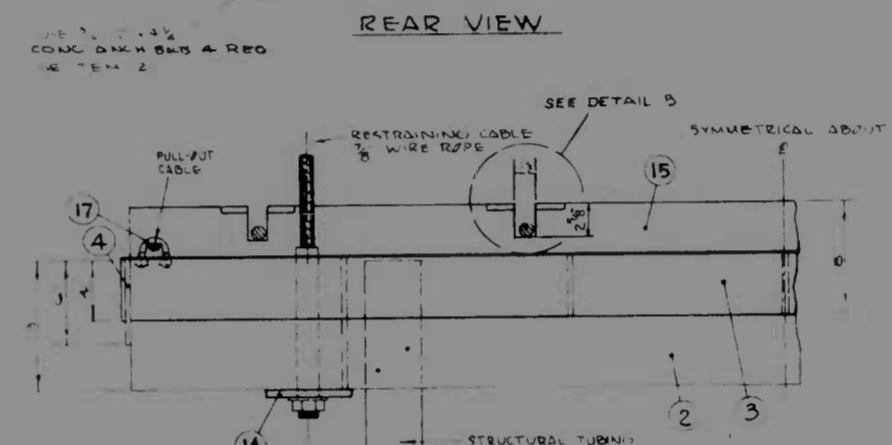
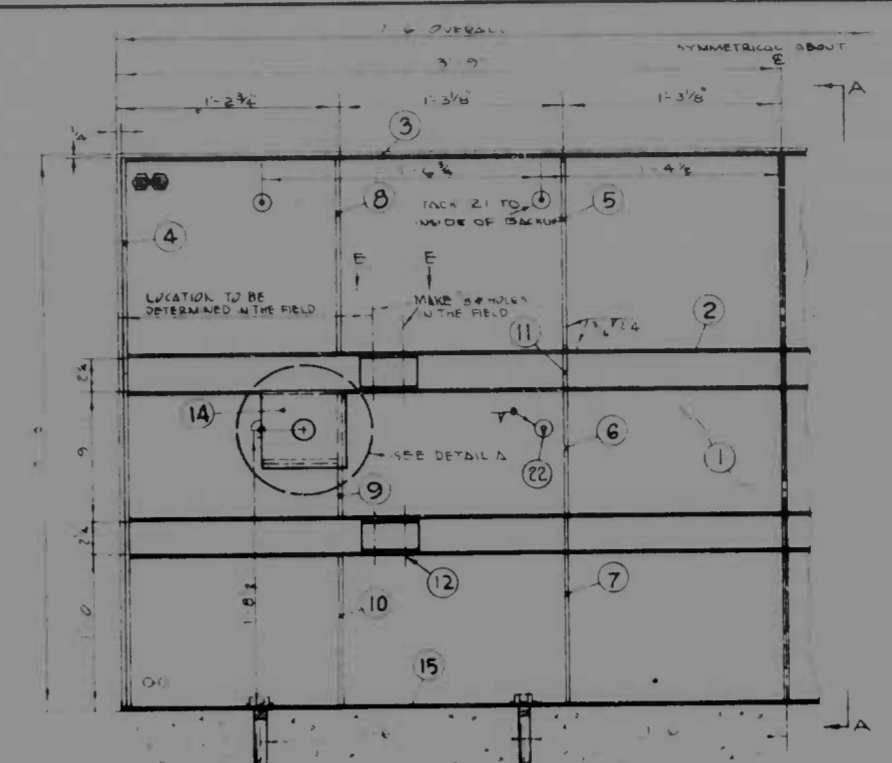
NOTES:
1. BOLT PREFERRED TO BOLT W/ REQ'D PLATE.
2. ANCHOR BOLTS SHALL BE 1/2" x 10 x 1/4 MOLY PERMITS.



DESIGN SPEED 70 MPH
DESIGN WIND 47 MPH
DESIGN SNOW 0.50
DESIGN SEISMIC 0.20

LEGEND	DESCRIPTION
1	HYDRO CUSHION CELL
2	STRUCTURAL MEMBER
3	ANCHOR BOLTS
4	ANCHOR BOLTS
5	ANCHOR BOLTS

NOTES:
1. SPACET ASSIGNMENT TO BE DETERMINED BY PROJECT ENGINEER.
2. LOCATION STA 338+00 I-95 RT.



LEFT SIDE

FRONT VIEW

ENERGY ABSORBING DEVICE NO. 2

REVISIONS	CONSULTANT

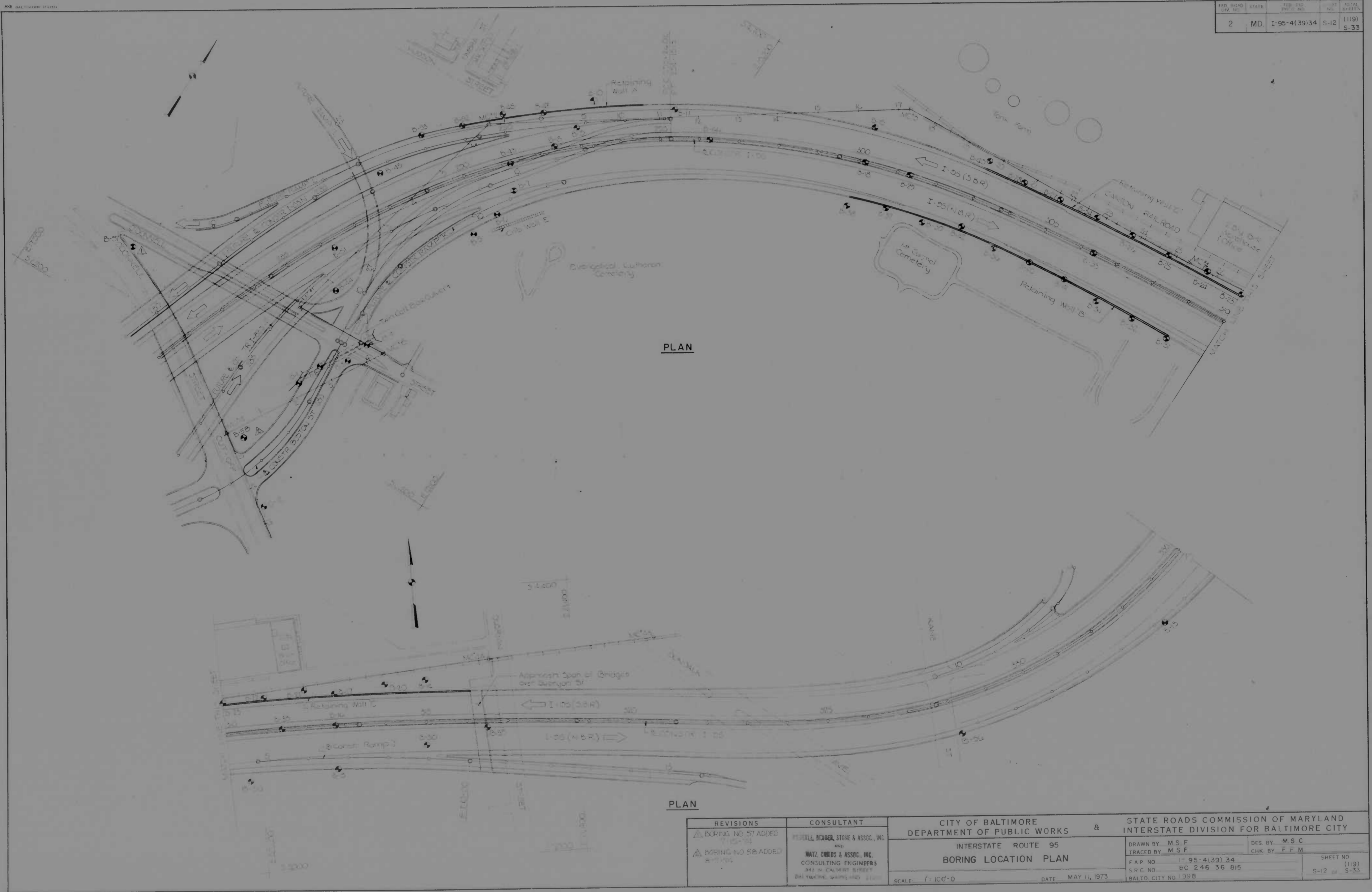
CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
INTERSTATE ROUTE 95
FROM O'DONNELL STREET
TO WEST OF GUSRYAN STREET

STATE ROADS COMMISSION OF MARYLAND
INTERSTATE DIVISION FOR BALTIMORE CITY
DRAWN BY WELCH
TRACED BY E.A.S.
F.A.P. NO. I-95-4(39)84
S.R.C. NO. BC 248-36-815
BALTO. CITY NO. 1998

SCALE: AS SHOWN DATE: MAY 11, 1973

DES. BY E.A.S.
CHK. BY D.G.M.
SHEET NO. (119)
SI-17 OF SI-17

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	ST. NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	S-12	(119) S-33



PLAN

PLAN

REVISIONS Δ BORING NO 57 ADDED 7-15-74 Δ BORING NO 58 ADDED 8-1-74	CONSULTANT PEWELL, BUCHER, STONE & ASSOC., INC. 400 MATZ CHILDS & ASSOC., INC. CONSULTING ENGINEERS 843 N CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE ROUTE 95 BORING LOCATION PLAN		DRAWN BY M.S.F. TRACED BY M.S.F. F.A.P. NO. I-95-4(39)34 S.R.C. NO. EC 246 36 815 BALTO. CITY NO. 1998	DES. BY M.S.C. CHK. BY F.F.M. SHEET NO. (119) S-12 OF S-33
		SCALE: 1" = 100'-0" DATE: MAY 11, 1973			

STANDARD SIGNS & DELINEATORS

SIGN INDEX AND QUANTITY SUMMARY

GUIDE SIGNS & W BEAM GUARD RAIL

PROJECT NO.	DATE	ISSUE NO.	SHEET NO.	TOTAL SHEETS
2	MD. I-95-43074	1	119	117

SHEET NO.	STANDARD SIGN ASSEMBLY	SUPPORT TYPE	LOCATION & QUANTITIES PER SHEET						TOTAL NO.	AREA SQ. FT.	REMARKS
			SI-3	SI-4	SI-5	SI-6	SI-7	SI-8			
1	R1-2(STD.)	S-1	1					2	8.38		
2	R1-2(FWY.)	S-3a		1			2	3	30.00		
3	R2-1(FWY.) & R2-1A(RE)	S-3a					2	3	69.99	FOR DETAIL OF 3a SEE SHEET NO. S-30	
4	R3-1(SPECIAL) R6-1	S-1					1	1	12.25		
5	R3-2(SPECIAL) R6-1	S-1					1	1	12.25		
6	R3-7R	S-1	2					2	12.50		
7	R4-7a(STD.)	S-1	3					3	15.00		
8	R5-1(STD.) R6-1	S-1	5				2	7	64.75		
9	R5-9(FWY.)	S-1	6					6	36.00		
10	R8-7(FWY.) & 10a W-S	S-3a					1	2	32.00	FOR DETAIL OF 10a SEE SHEET NO. S-33	
11	W3-3(SPECIAL)	S-3a					1	1	19.00		
12	W4-1(FWY.)	S-3a					2	2	38.00		
13	W13-2(FWY.)	S-3a		1			1	2	40.00		
14	W13-3(STD.)	S-1					2	2	10.00		
15	D9-2a D9-2b	S-1					1	1	6.00		
16	D9-2a D9-2c	S-1		1				1	6.00		
17	T1-1	S-1	2	2				4	25.00		
18	T1-2	S-1	2	2				4	25.00		
19	T1-3	S-1	1	1	1			4	25.00	FOR DETAILS OF 19a SEE SHEET NO. S-33	
20	TEMPORARY R2-1(FWY.)	PORTABLE					2	2	40.00		
21	TEMPORARY R2-5a(FWY.)	PORTABLE	2	2				4	80.00		
22	TEMPORARY W1-6(SPECIAL)	PORTABLE	5	4				9	112.50		
23	TEMPORARY W3-3(SPECIAL)	PORTABLE	2					2	38.00		
24	TEMPORARY W4-2(FWY.)	PORTABLE	2	5				7	112.00		
25	TEMPORARY W13-2(FWY.)	PORTABLE	2					2	40.00		
26	TEMPORARY RCD-3(STD.)	PORTABLE					2	2	32.00		
27	TEMPORARY RCD-5(STD.)	PORTABLE		2	1			3	48.00		
28	TEMPORARY R11-2&M-10(L)	PORTABLE	1					1	16.00		
								SUB-TOTAL	1006.62		

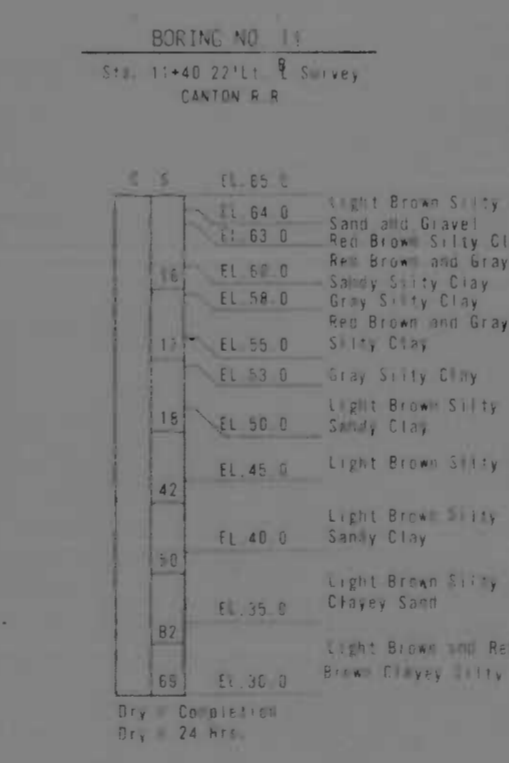
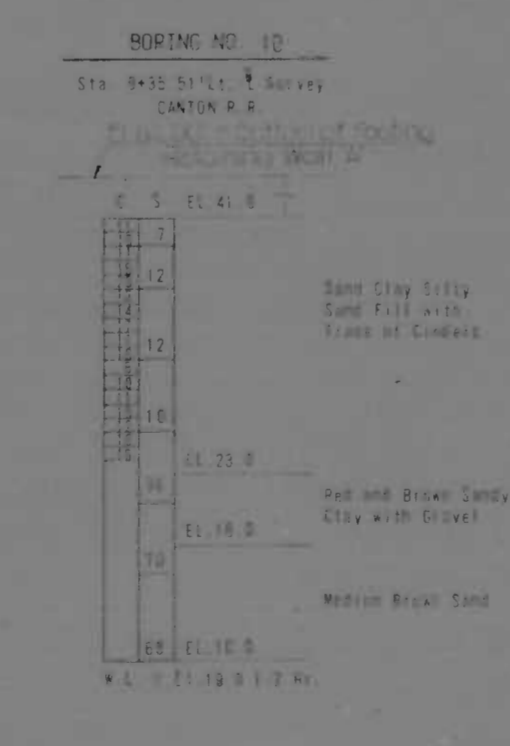
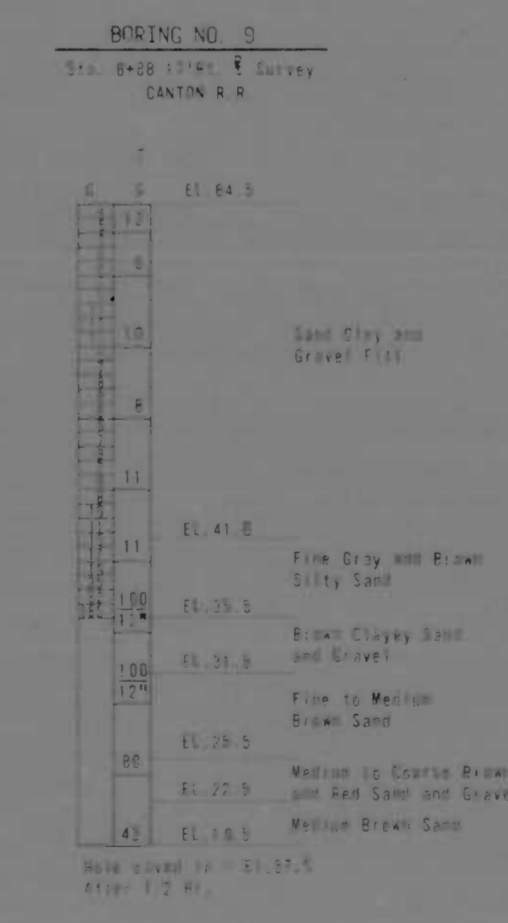
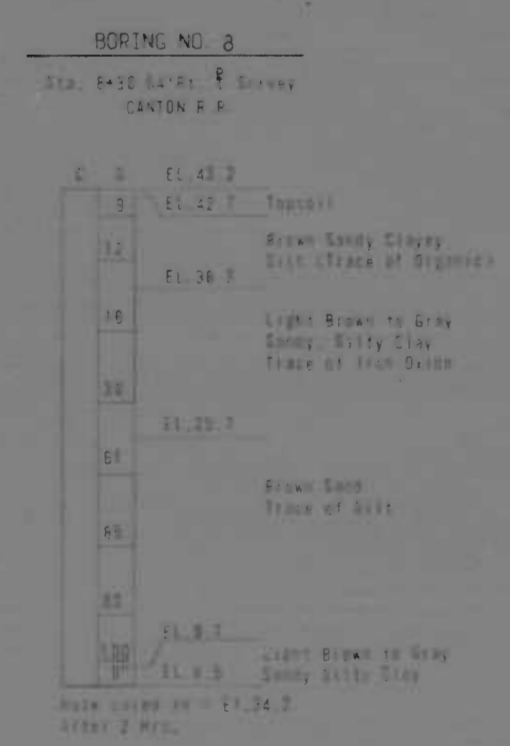
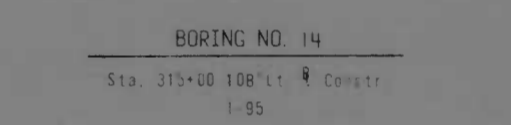
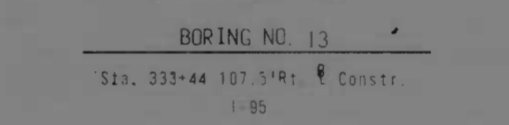
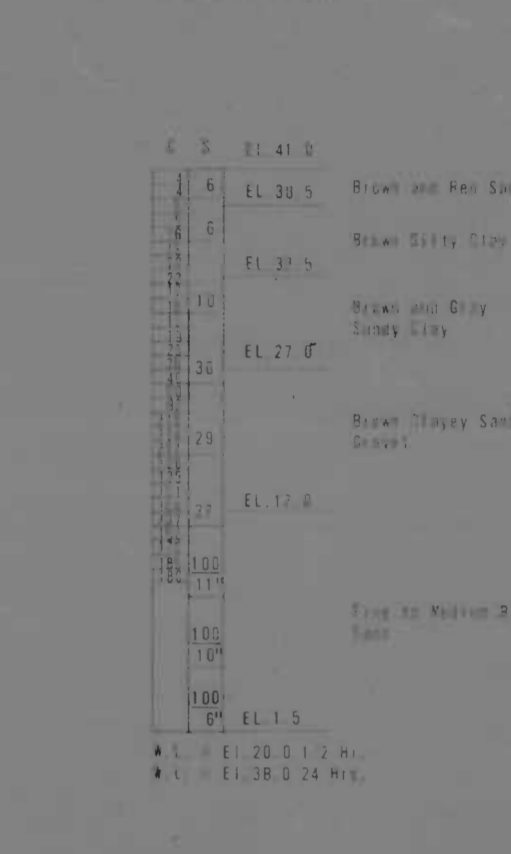
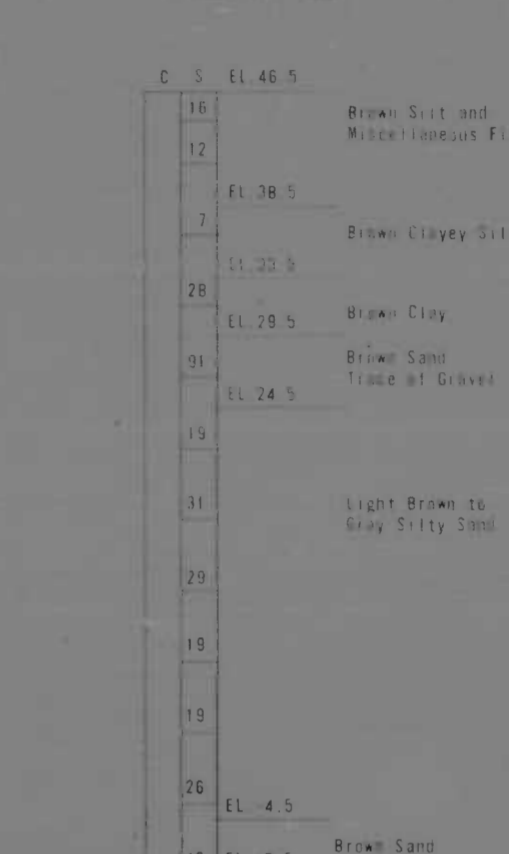
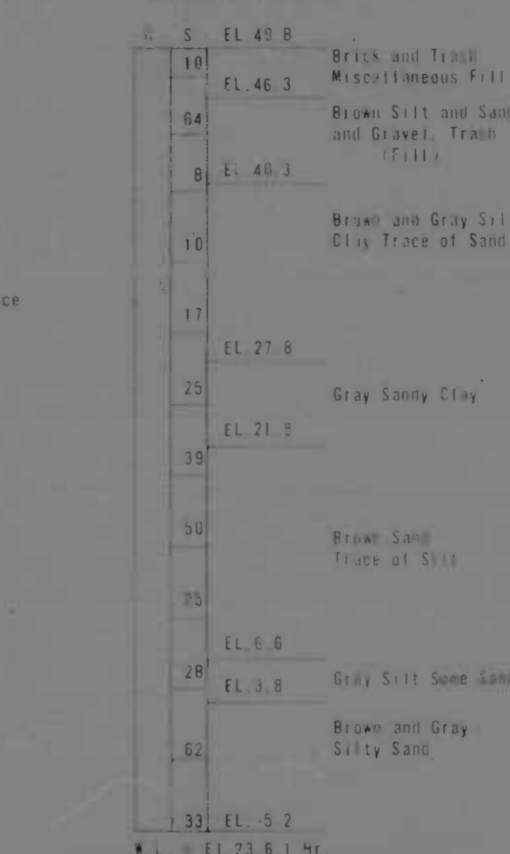
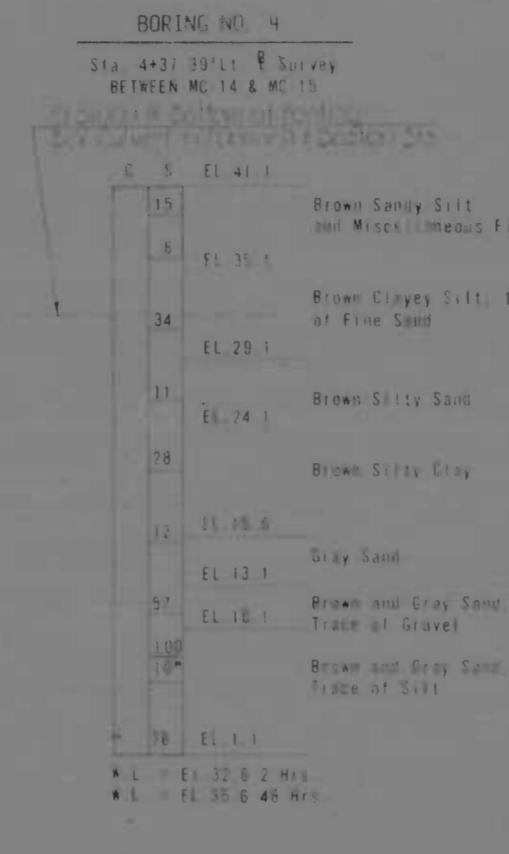
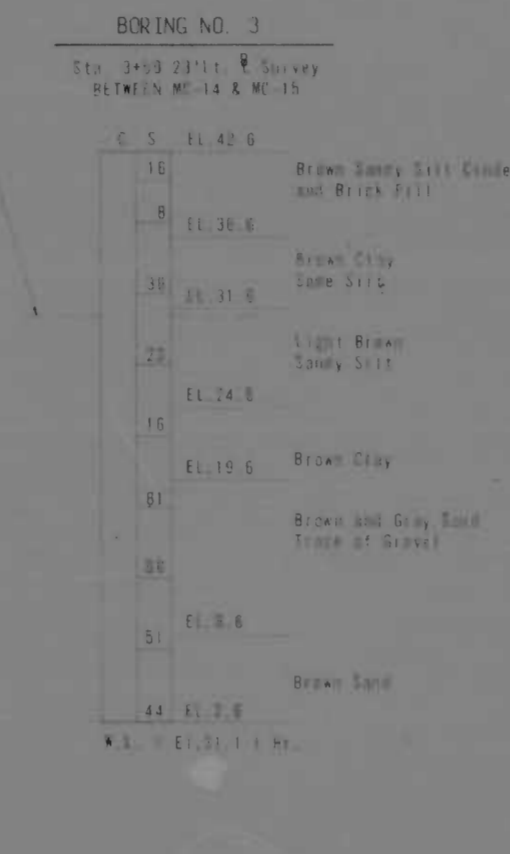
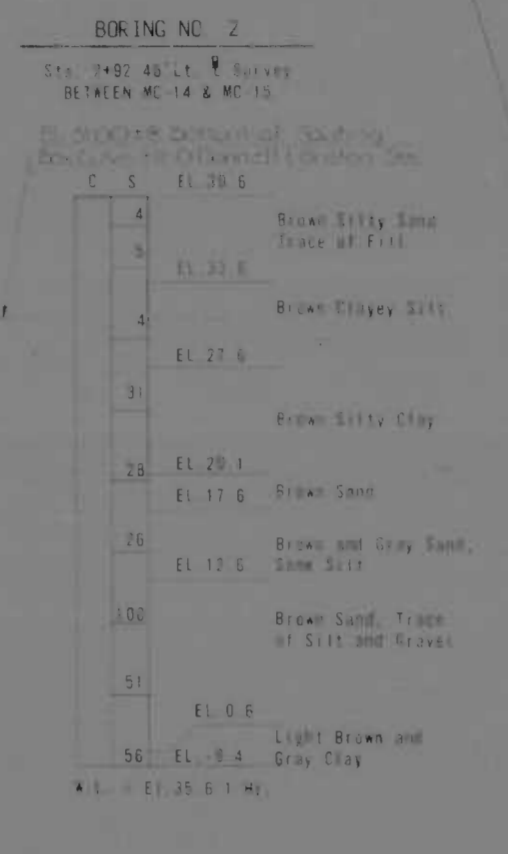
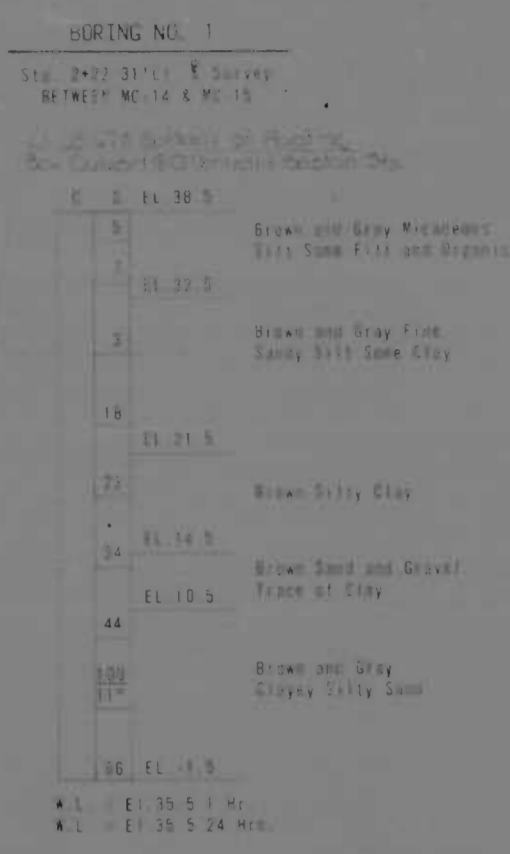
SHEET NO.	STANDARD SIGN ASSEMBLY	SUPPORT TYPE	LOCATION & QUANTITIES PER SHEET			TOTAL NO.	AREA SQ. FT.	REMARKS
			SI-3	SI-4	SI-5			
28	IS-A IM3-1A(N)	S-1	2			2	10.50	
29	IS-A IM3-1A(N) 3A(S) M6-1	S-1			1	1	7.44	
30	IS-A IM3-1A(N) 3A(S) M6-3	S-1			1	1	7.44	
31	IS-C IM3-3B(S)	S-1	1			1	10.38	
32	M2-1a				1	1	2.18	REMOVE TEMPORARY IM3-1A(N) AND INSTALL M2-1a
33	TEMPORARY IS-C IM3-3B(S) M4-5a M6-1	PORTABLE	2			2	31.38	MOUNT ON WOODEN 2"x4" AND ATTACH TO TEMPORARY PORTABLE SUPPORT
						SUB-TOTAL	69.32	
						TOTAL	1074.94	
SHEET NO.	BRIDGE END MARKERS	SUPPORT TYPE	LOCATION & QUANTITIES PER SHEET			TOTAL NO.	AREA SQ. FT.	REMARKS
34	W15-1(R)	S-1			2	2	16.00	
35	W15-1(L)	S-1			2	2	16.00	
36	OBJECT MARKER	ATTACH	2	1	3	10	22.50	ATTACH TO OTHER SIGN SUPPORT
37	TYPE '1'	DRIVE POST			3	3		
38	TYPE '2'	DRIVE POST	11	15		26	64	
39	TYPE '3'	DRIVE POST	6		12	18		

SHEET NO.	SIGN NO.	SHEET NO.	PANEL a	PANEL b	PANEL c	PANEL d	PANEL e	TOTAL AREA SQ. FT.	STRUCT. TYPE	GUARD RAIL W BEAM LIN. FT.	RAIL FLARE EACH	REMARKS	
													75
78	2	11										FUTURE	
51	3	11	66.5				66.5		BN-2				
57	4	11	108.0				108.0		C-1				
74	5	11										FUTURE	
76	6	11	112.0				112.0		BN-3				
79	7	SI-3	96.0				96.0		C-1				
62	8	11	66.5				66.5		BN-2				
74	9	11	28.75				28.75		BN-1				
61	10	11	66.5				66.5		BN-2				
57	11	11	108.0				108.0		C-1				
81	12	11	101.5				101.5		BN-3				
80	13	SI-3										FUTURE	
15	14	11										FUTURE	
16	14	11										FUTURE	
53	15	11										FUTURE	
48	16	11	119.0				119.0		C-1				
31	17	SI-3	178.5	294.0			472.5		B-1				
18	18	SI-4	153.0	130.5	139.5	122.5	157.5	703.0	B-1				
19	19	SI-4	154.0				154.0		C-1				
20	20	SI-5	112.7	104.0			216.7		C-11				
21	21	11	117.0				117.0		C-1				
22	22	11	117.0				117.0		C-1				
23	23	SI-5	154.0				154.0		C-1				
24	24											FUTURE	
25	25											FUTURE	
								TOTALS	2777.46 FT. ²			2806.95	

NOTES
 FOR GENERAL NOTES SEE SHEET No. SI-1
 FOR STANDARD SIGNS SUPPORT TYPE SEE SHEETS No. SI-13
 FOR GUIDE SIGNS STRUCTURE TYPE SEE SHEETS No. SI-14, S-29 - S-31
 FOR SIGN PANEL DETAILS SEE SHEETS No. SI-6
 FOR DELINEATOR DETAILS SEE SHEET No. SI-15
 *SI-7, SI-8

REVISIONS 1. REVISED SIGN NO. 7 TO 10/72	CONSULTANT FEDERAL ROAD, SIGN & ASSOC., INC. AND HWZ, CRIST & ASSOC., INC. CONSULTING ENGINEERS 181 E. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
DRAWN BY: S.M. TRACED BY: S.M.	DES. BY: D.S.M. CHN. BY: J.L.C.	P.A.P. NO. 2-95-113013-9 S.P.C. NO. 87-246-24-215	BALTO. CITY NO. 1998 SHEET NO. 119

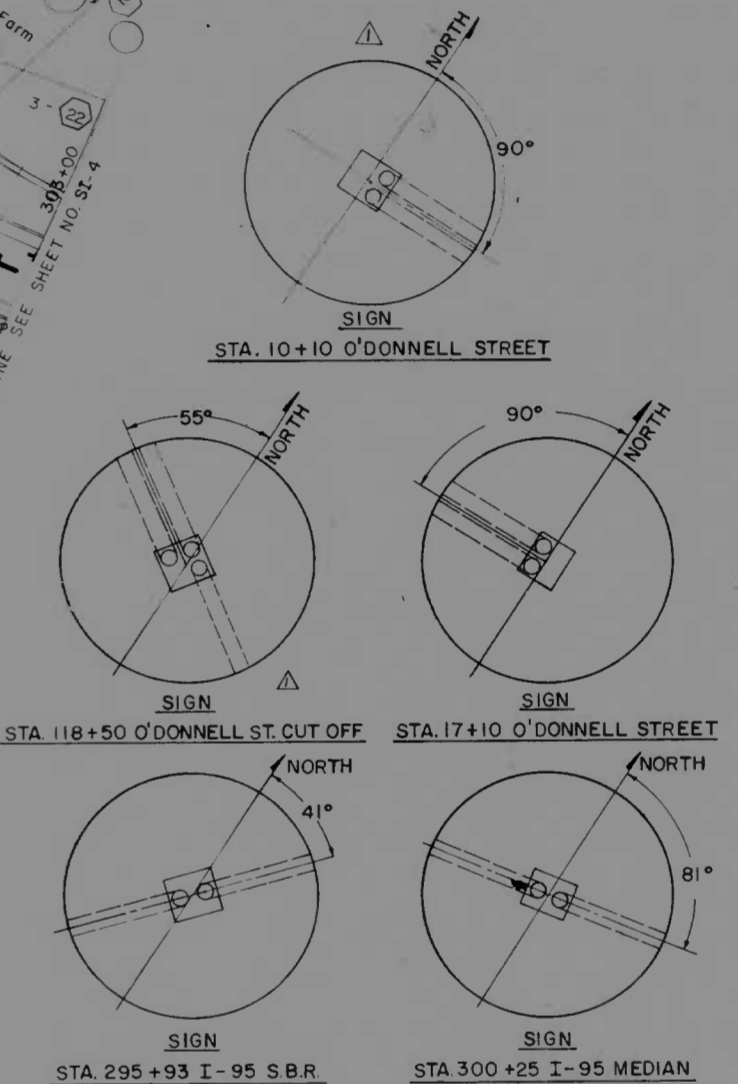
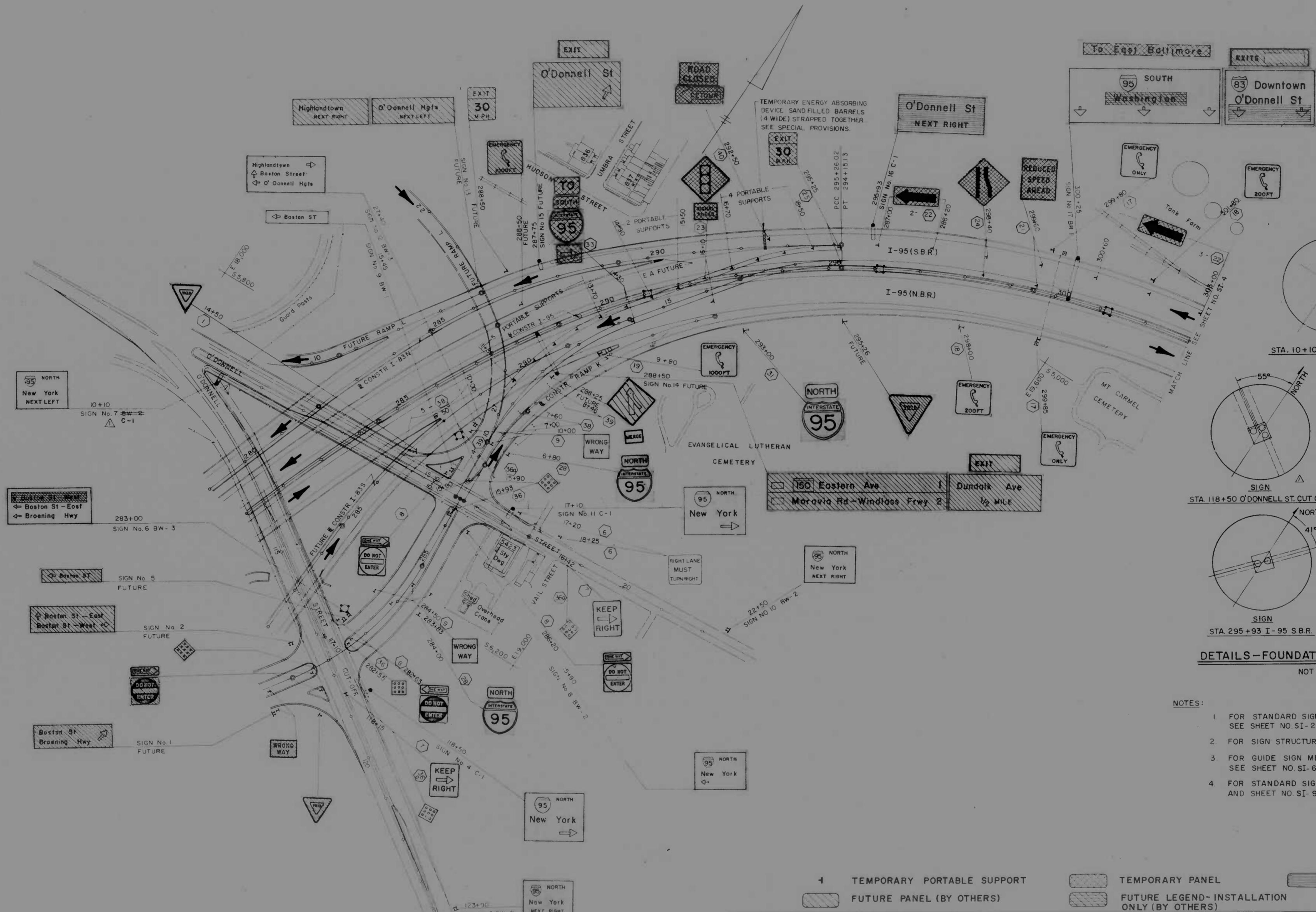
50
40
30
20
10
0
10
20
30
40
50
60
70
80
90
100



- NOTES**
1. Number of blows required to drive a 2.5 Dia. 30" casing per foot, using a 100 lbs. weight falling 20 inches.
 2. Number of blows required to drive a 2 1/2" Dia. sampling spoon per foot, using a 148 lbs. weight falling 30 inches.
 3. The samples obtained from split spoon tests are available for inspection on request.
 4. Test borings 1 through 18 were done by the Maryland State Roads Commission, starting about in February, 1973. Test borings 11 through 33 were done by the Maryland Foundation Testing Company in Feb. 1973, 1977.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		INTERSTATE ROUTE 95 BORING DATA I	DRAWN BY: M.S.F. TRACED BY: M.S.F. DES. BY: M.S.F. CHK. BY: F.F.M.
		SCALE: 1/8" = 1'-0" Vert.	F.A.P. NO. I-95 4(39)34 S.C. NO. BC 246-36-BIS BALTO. CITY NO. 1998
		DATE: MAY 11, 1973	SHEET NO. (119) S-13 S-33

FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	SI-3	(119) SI-17



DETAILS—FOUNDATION CONDUIT ENTRANCES
NOT TO SCALE

- NOTES:
1. FOR STANDARD SIGN ASSEMBLY SUPPORT NUMBERS SEE SHEET NO SI-2
 2. FOR SIGN STRUCTURE ELEVATIONS SEE SHEET NO S-29
 3. FOR GUIDE SIGN MESSAGES AND DETAILS SEE SHEET NO SI-6 & SI-7
 4. FOR STANDARD SIGN DETAILS SEE SPECIAL PROVISIONS AND SHEET NO SI-9

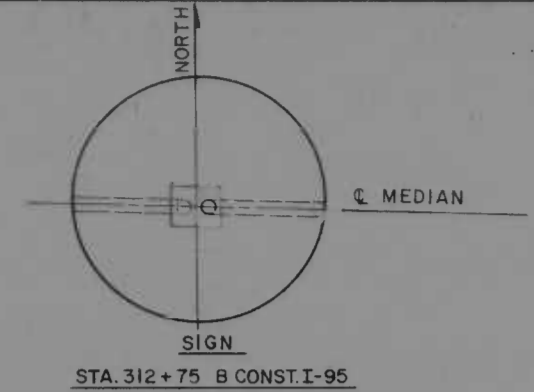
4	TEMPORARY PORTABLE SUPPORT		TEMPORARY PANEL		PANEL TO BE COVERED
	FUTURE PANEL (BY OTHERS)		FUTURE LEGEND-INSTALLATION ONLY (BY OTHERS)		

REVISIONS ▲ REVISED SIGN NO 7 7.15.73	CONSULTANT KNOERLE, BENDER, STONE & ASSOC., INC. AND WATZ, OWEN & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRAN STREET		DRAWN BY: S.M. TRACED BY: S.M.	DES. BY: D.G.M. CHK. BY: J.L.C.
SCALE: 1"=100'		DATE: MAY 11 1973		F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998	

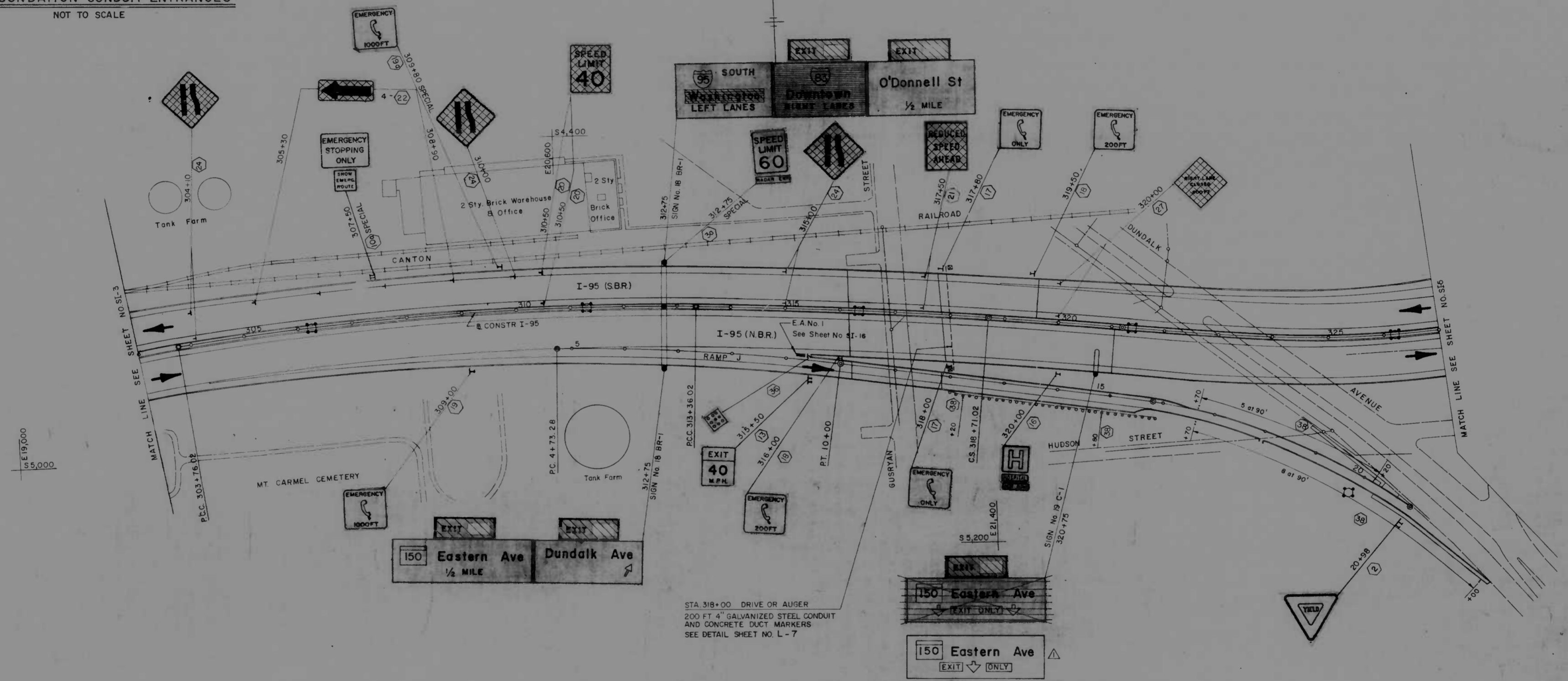
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	S-14	(119) S-33



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 BORING DATA II	
		DRAWN BY: M.S.F. TRACED BY: M.S.F.	DES. BY: M.S.F. CHK. BY: F.F.M.
		P.A.P. NO. 1-95-4(39)34 S.R.C. NO. BC 246-36 B/S	SHEET NO. (119) S-14 OF S-33
		SCALE: 1/8" = 1'-0" Vert	DATE: MAY 14, 1973 BALTIMORE CITY NO. 1998



DETAILS-FOUNDATION CONDUIT ENTRANCES
NOT TO SCALE



STA 318+00 DRIVE OR AUGER
200 FT 4" GALVANIZED STEEL CONDUIT
AND CONCRETE DUCT MARKERS
SEE DETAIL SHEET NO. L-7

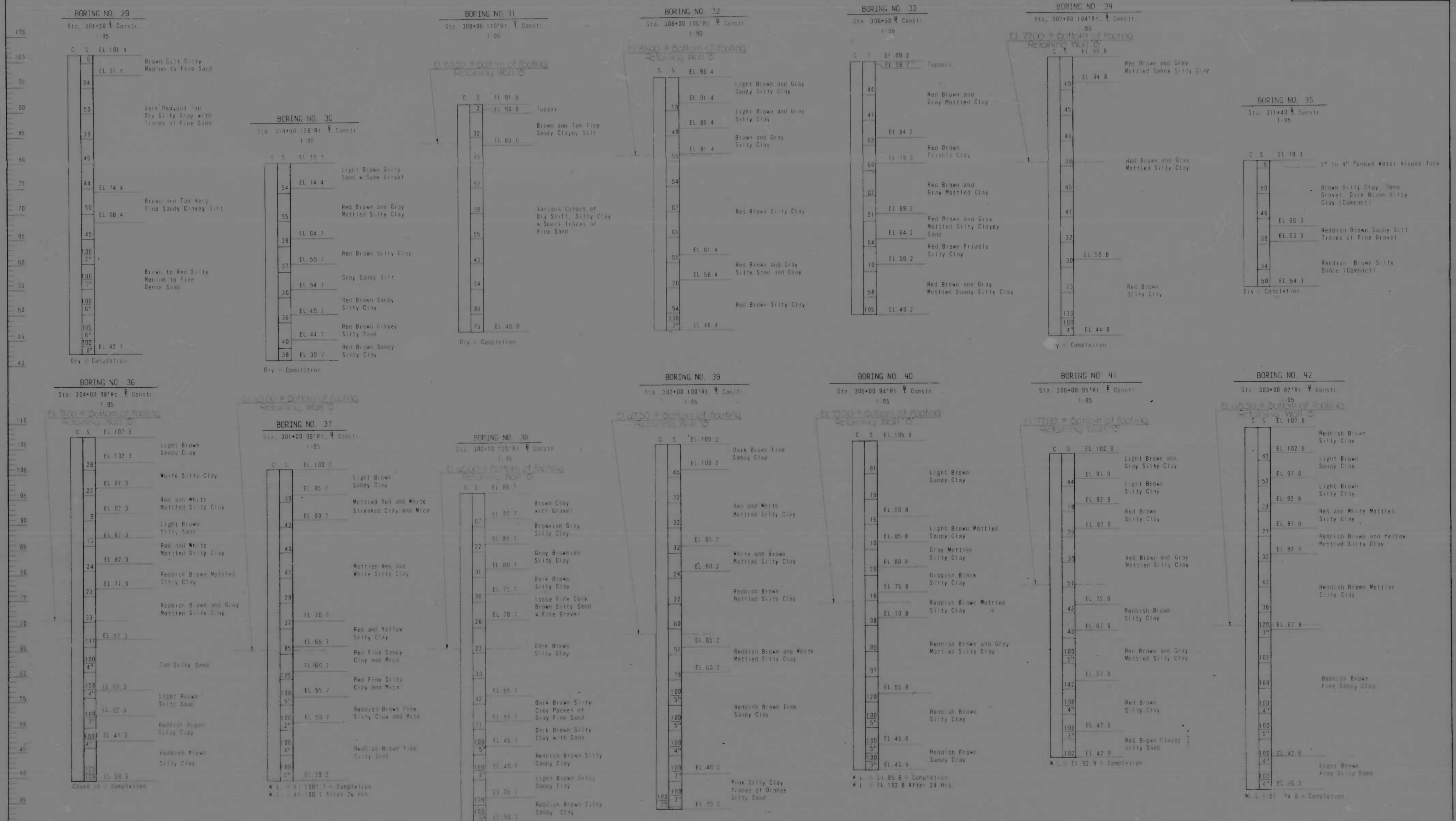
- NOTES:**
1. FOR STANDARD SIGN ASSEMBLY SUPPORT NUMBERS - SEE SHEET NO. SI-2
 2. FOR SIGN STRUCTURE ELEVATIONS SEE SHEET NOS. S-30 & S-31
 3. FOR GUIDE SIGN MESSAGES AND DETAILS SEE SHEET NOS. SI-6 & SI-7
 4. FOR STANDARD SIGN DETAILS SEE SPECIAL PROVISIONS AND SHEET NOS. SI-9

- 1 TEMPORARY PORTABLE SUPPORT
- TEMPORARY PANEL
- FUTURE PANEL (BY OTHERS)
- PANEL TO BE COVERED
- FUTURE LEGEND - INSTALLATION ONLY (BY OTHERS)

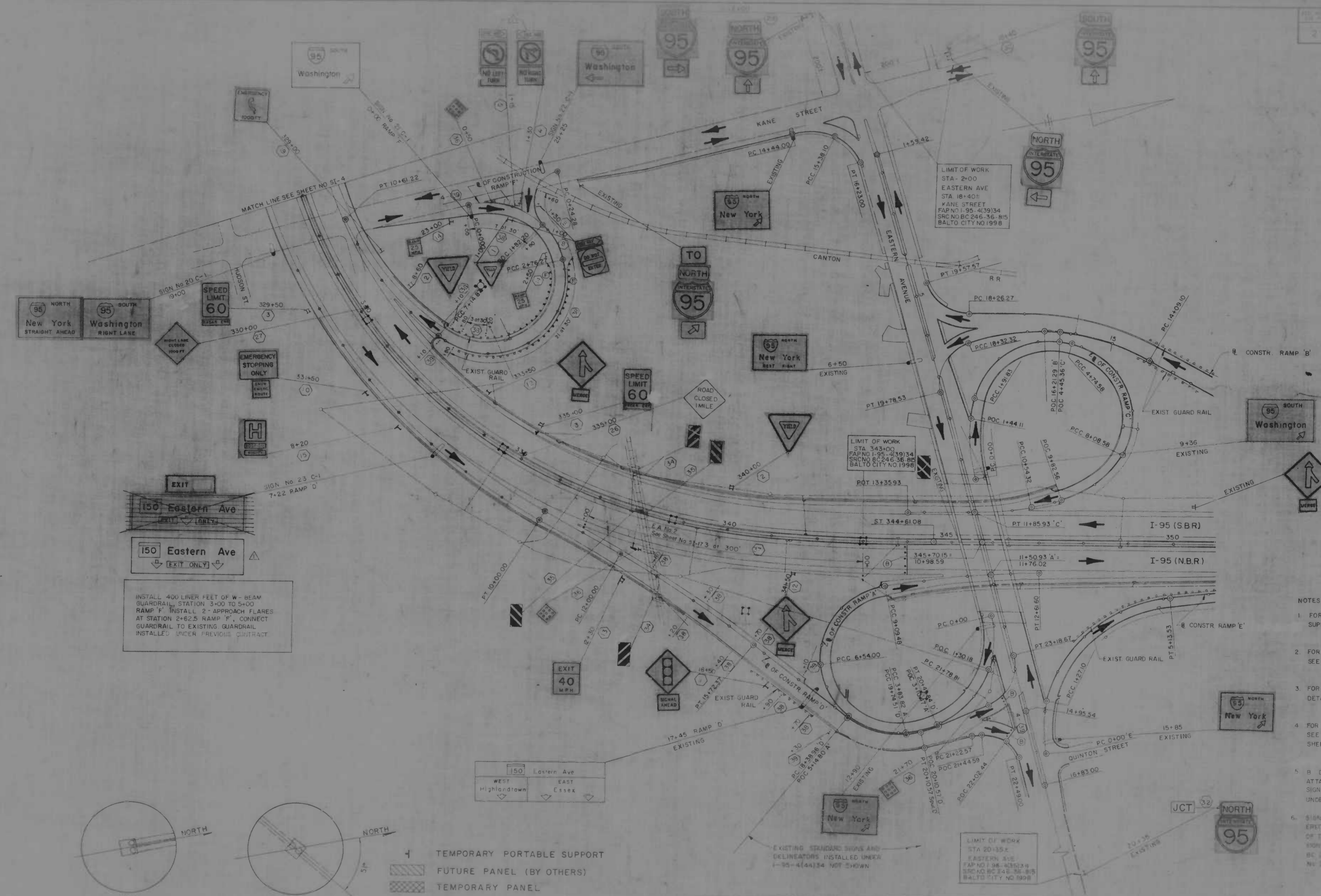
REVISIONS Δ REVISED SIGN NO. 10 7-15-71	CONSULTANT ANDERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRAN STREET	
		DRAWN BY: S.M. TRACED BY: S.M. F.A.P. NO.: I-95-4(39)34 S.R.C. NO.: BC 246-36-B15 BALTO. CITY NO.: 199B	DES. BY: D.G.M. CHK. BY: J.L.C. SHEET NO.: (119) SI-4 of SI-17

SCALE 1" = 100' DATE MAY 11, 1973

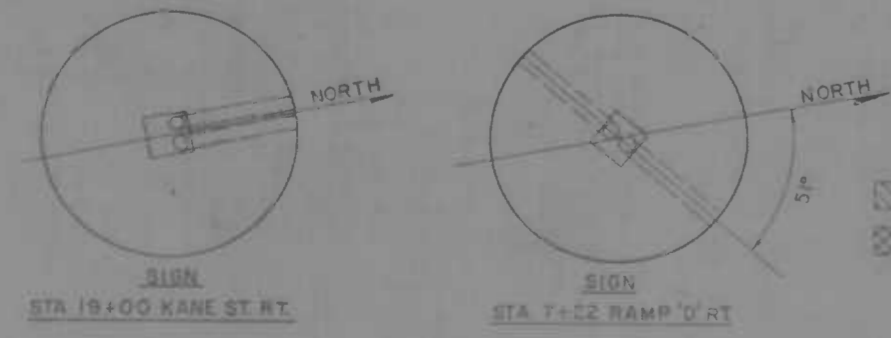
FED. ROAD DIST. NO.	STATE	FED. AID FUND NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)54	S-15	(119) S-33



REVISIONS	CONSULTANT J. L. BECKER, STORE & ASSOC., INC. AND WEST, TRUSS & ASSOC., INC. CONSULTING ENGINEERS 740 N. EMBURY STREET BALTIMORE, MARYLAND, 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 BORING DATA III			
SCALE: 1/8"=1'-0" Vert		DATE: MAY 11, 1973	DRAWN BY: MSF TRACED BY: MSF	DES BY: MSF CHK BY: EFM	SHEET NO. (119) S-15 of S-33
			F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246 36-815	BALTO. CITY NO. 1998	



INSTALL 400 LINEAR FEET OF W-BEAM GUARDRAIL STATION 3+00 TO 5+00 RAMP 'F' INSTALL 2' APPROACH FLARES AT STATION 2+62.5 RAMP 'F' CONNECT GUARDRAIL TO EXISTING GUARDRAIL INSTALLED UNDER PREVIOUS CONTRACT



DETAILS - FOUNDATION CONDUIT ENTRANCES
NOT TO SCALE

- TEMPORARY PORTABLE SUPPORT
- FUTURE PANEL (BY OTHERS)
- TEMPORARY PANEL

- NOTES
- 1 FOR STANDARD SIGN ASSEMBLY SUPPORT NUMBERS SEE SHEET NO S1-2
 - 2 FOR SIGN STRUCTURE ELEVATIONS SEE SHEET NO S-31
 - 3 FOR GUIDE SIGN MESSAGES AND DETAILS SEE SHEET NO S1-8
 - 4 FOR STANDARD SIGN DETAILS SEE SPECIAL PROVISIONS AND SHEET NO S1-9
 - 5 B DESIGNATES BARRICADES WITH ATTACHED TEMPORARY CONSTRUCTION SIGNS THAT ARE TO BE REMOVED UNDER THIS CONTRACT
 - 6 SIGNS SHOWN "EXISTING" WILL BE ERASED, AS WELL AS THE MAJORITY OF THE EASTERN AVENUE INTERCHANGE SIGNING UNDER CONTRACT NO. 41-414134, BC 246-21-WHC BALTIMORE CITY, NY 3078

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
REVISED PLAN NO. 1020 12/4/73	AMERL, BERNAL, STONE & ASSOC., INC. AND KATZ, SMITH & ASSOC., INC. CONSULTING ENGINEERS ARE IN CHARGE OF DESIGN AND PREPARED THIS PLAN.	INTERSTATE ROUTE 95 SIGNING FROM O'DONNELL STREET TO EASTERN AVENUE	DRAWN BY: J.V.J. TRACED BY: J.V.J. DATE: MAY 11, 1973

GUIDE SIGN MESSAGES, DETAILS AND DIMENSIONS
(EXTRUDED ALUMINUM PANELS WITH DEMOUNTABLE REFLECTOR COPY)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	E-95-4(39)34	SI-6	(119)

DESIGN SHEET	PANEL DESIGN-NATION	SHEET NO.	QUANTITY	LEGEND	SIZE		COLOR		BORDER			SHIELD	REMARKS
					WIDTH	HEIGHT	LEGEND	BACK GRD	WIDTH	RADIUS	ARROW		
75	1 FUTURE	SI-3	0		15'-0"	4'-6"	W	G	2"	6 3/4"	A-2	45°	Future Sign Not Included In This Contract
78	2 FUTURE	SI-3	1		16'-0"	5'-0"	W	G	2"	7 1/2"	A-4		Future Sign Not Included In This Contract
61	3 & 10	SI-3			9'-6"	7'-0"	W	G	2"	10 1/2"		IS-1	
57	4 & 11	SI-3	2		12'-0"	9'-0"	W	G	2"	12"	A-2 & EXT.		IS-4
74	5 FUTURE & 9	SI-3	1		11'-6"	2'-6"	W	G	1 1/2"	3 3/4"	A-4		Future Sign No. 5 Not Included In This Contract
76	6	SI-3	1		16'	7'	W	G	2"	10 1/2"	A-4		Deliver Arrow and Letters "Boston St - West" to Dept of Transit & Traffic
79		SI-3	1		9'-6"	7'-0"	W	G	2"	10 1/2"			IS-1
103					12'-0"	8'-0"	W	G	2"	12"			IS-4

DESIGN SHEET	PANEL DESIGN-NATION	SHEET NO.	QUANTITY	LEGEND	SIZE		COLOR		BORDER			SHIELD	REMARKS
					WIDTH	HEIGHT	LEGEND	BACK GRD	WIDTH	RADIUS	ARROW		
62	8	SI-3	1		9'-6"	7'-0"	W	G	2"	10 1/2"	A-4	IS-1	
81	12	SI-3	1		14'-6"	7'-0"	W	G	2"	10 1/2"	A-4		
80	13a FUTURE		1		14'-0"	5'-0"	W	G	2"	7 1/2"			Future Sign Not Included In This Contract
80	13b FUTURE	SI-3	1		15'-6"	5'-0"	W	G	2"	7 1/2"			Future Sign Not Included In This Contract
15	14a FUTURE		1		17'-0"	7'-0"	W	G	2"	10 1/2"			Future Sign Not Included In This Contract
16	14b FUTURE	SI-3	1		35'-0"	7'-0"	W	G	2"	10 1/2"		MD-4	Future Sign Not Included In This Contract

- NOTES:
 1. FOR SHIELD AND ARROW DETAILS, SEE SHEET NO. SI-10
 2. COLOR LEGEND, W-WHITE, G-GREEN
 3. INDICATES SPACE FOR FUTURE EXT NUMBERS (BY OTHERS)
 4. INDICATES FUTURE (BY OTHERS)
 5. INDICATES FUTURE LEGEND - INSTALLATION ONLY (BY OTHERS)

REVISIONS REVISED SIGN NO. 7 7-15-74	CONSULTANT KROEGER, BENNETT, STONE & ASSOC., INC. AND MATT, COLLIER & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY S.G.M. TRACED BY S.G.M. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1978
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GUIDE SIGN MESSAGES, DETAILS AND DIMENSIONS
(EXTRUDED ALUMINUM PANELS WITH DEMOUNTABLE REFLECTOR COPY)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4139134	SI-7	(119) SI-17

DESIGN SHEET	PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND	SIZE			COLOR		BORDER			REMARKS
					WIDTH	HEIGHT	LEGEND	BACK GFD	WIDTH	RADIUS	ARROW	SHIELD	
53	15 Future	SI-3	1		17'-0"	8'-6"	W	G	2"	12"	A-3 60°	Future Sign Not Included In This Contract	
48	16	SI-3	1		17'-0"	7'-0"	W	G	2"	10 1/2"		Future Sign No. 24 Above (Not Included This Contract) Panel To Be Covered	
65a	17a	SI-3	1		17'-0"	10'-6"	W	G	2"	12"	C-1 12" C	Future Sign No. 25 Above (Not Included This Contract) Panel To Be Covered	
51	17b	SI-3	1		28"	10'-6"	W	G	2"	12"	C-1 12" C	Temporary Panel "To East Baltimore" Shall be Replaced With "Washington" In The Future (By Others). Deliver Letters "Washington" to Dept. of Transit & Traffic.	
					16'-6 1/2"							Temporary Legend	

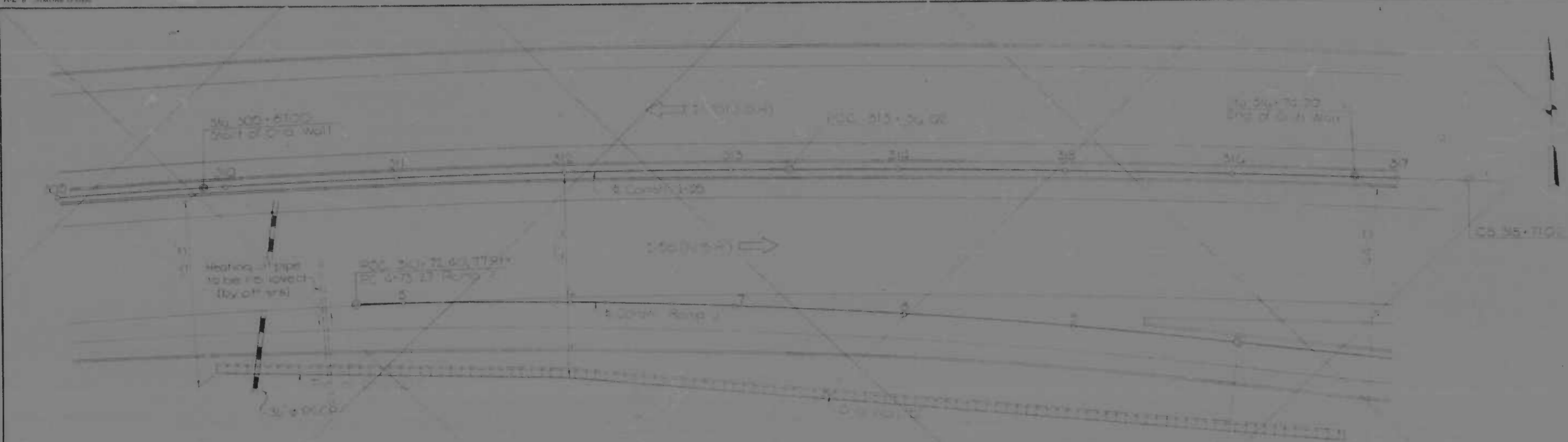
DESIGN SHEET	PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND	SIZE			COLOR		BORDER			REMARKS
					WIDTH	HEIGHT	LEGEND	BACK GFD	WIDTH	RADIUS	ARROW	SHIELD	
51	18a		1		17'-0"	9'-0"	W	G	2"	12"		Future Sign No. 24 Above (Not Included This Contract)	
66	18b		1		14'-6"	9'-0"	W	G	2"	12"		Future Sign No. 24 Above (Not Included This Contract) Panel To Be Covered	
49	18c	SI-4	1		15'-6"	9'-0"	W	G	2"	12"		Deliver Letters "Washington" to the Dept. of Transit & Traffic.	
8	18d		1		17'-6"	7'-0"	W	G	2"	10 1/2"	A-2 60°	Future Sign No. 24 Above (Not Included This Contract)	
7	18e		1		22'-6"	7'-0"	W	G	2"	10 1/2"		Future Sign No. 24 Above (Not Included This Contract)	

NOTES:
1. FOR SHIELD AND ARROW DETAILS, SEE SHEET NO. SI-10
2. COLOR LEGEND, W-WHITE, G-GREEN

3. INDICATES TEMPORARY LEGEND, NOTE FUTURE LEGEND UNDER THIS CONTRACT.
4. INDICATES FUTURE LEGEND - INSTALLATION ONLY (BY OTHERS)

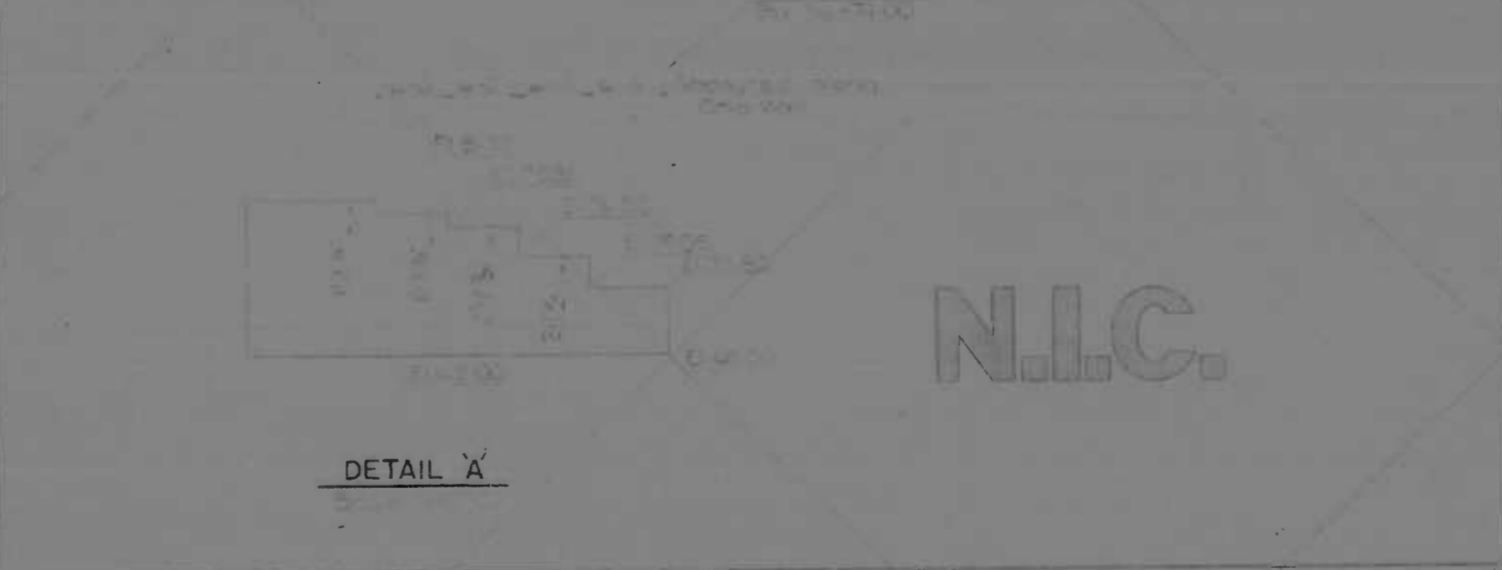
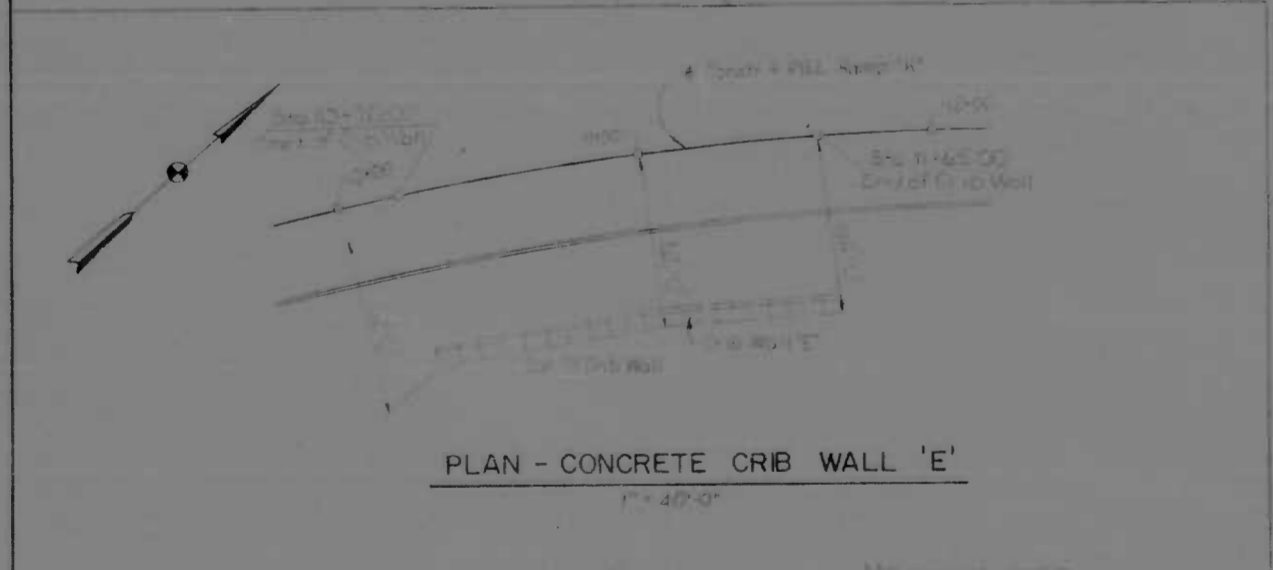
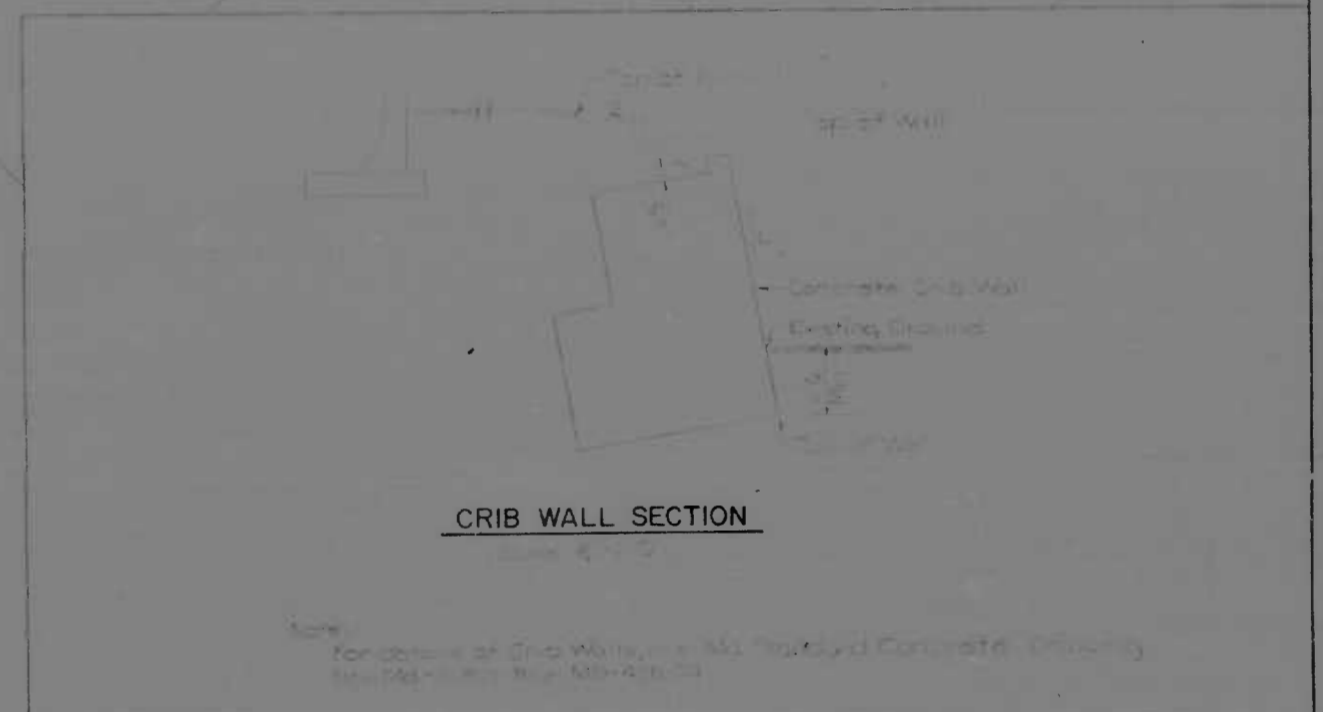
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	AL B D G M	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: S.G.M. CHECKED BY: S.G.M. FED. AID PROJ. NO. 1-95-4139134 SHEET NO. BC 246-36-815 DATE: 11-95
		ALL 3/16" 1/8"	SEE BY: AL B D G M CHK BY: S.G.M. SHEET NO. (119) SI-7 OF SI-17

FILE NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	5-17	(119) 5-33

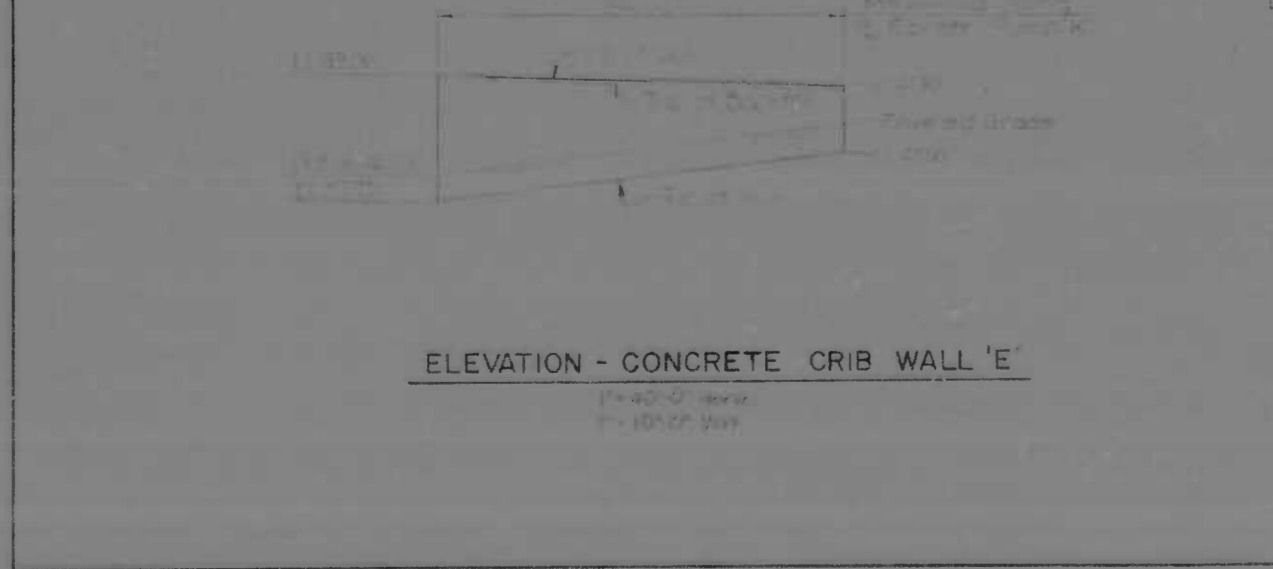


Station	Top of Wall ELEV.	Top of Wall ELEV.
20+00	80.00	80.00
20+10	80.00	80.00
20+20	80.00	80.00
20+30	80.00	80.00
20+40	80.00	80.00
20+50	80.00	80.00
20+60	80.00	80.00
20+70	80.00	80.00
20+80	80.00	80.00
20+90	80.00	80.00
21+00	80.00	80.00
21+10	80.00	80.00
21+20	80.00	80.00
21+30	80.00	80.00
21+40	80.00	80.00
21+50	80.00	80.00
21+60	80.00	80.00
21+70	80.00	80.00
21+80	80.00	80.00
21+90	80.00	80.00
22+00	80.00	80.00
22+10	80.00	80.00
22+20	80.00	80.00
22+30	80.00	80.00
22+40	80.00	80.00
22+50	80.00	80.00
22+60	80.00	80.00
22+70	80.00	80.00
22+80	80.00	80.00
22+90	80.00	80.00
23+00	80.00	80.00
23+10	80.00	80.00
23+20	80.00	80.00
23+30	80.00	80.00
23+40	80.00	80.00
23+50	80.00	80.00
23+60	80.00	80.00
23+70	80.00	80.00
23+80	80.00	80.00
23+90	80.00	80.00
24+00	80.00	80.00
24+10	80.00	80.00
24+20	80.00	80.00
24+30	80.00	80.00
24+40	80.00	80.00
24+50	80.00	80.00
24+60	80.00	80.00
24+70	80.00	80.00
24+80	80.00	80.00
24+90	80.00	80.00
25+00	80.00	80.00
25+10	80.00	80.00
25+20	80.00	80.00
25+30	80.00	80.00
25+40	80.00	80.00
25+50	80.00	80.00
25+60	80.00	80.00
25+70	80.00	80.00
25+80	80.00	80.00
25+90	80.00	80.00
26+00	80.00	80.00
26+10	80.00	80.00
26+20	80.00	80.00
26+30	80.00	80.00
26+40	80.00	80.00
26+50	80.00	80.00
26+60	80.00	80.00
26+70	80.00	80.00
26+80	80.00	80.00
26+90	80.00	80.00
27+00	80.00	80.00

N.I.C.

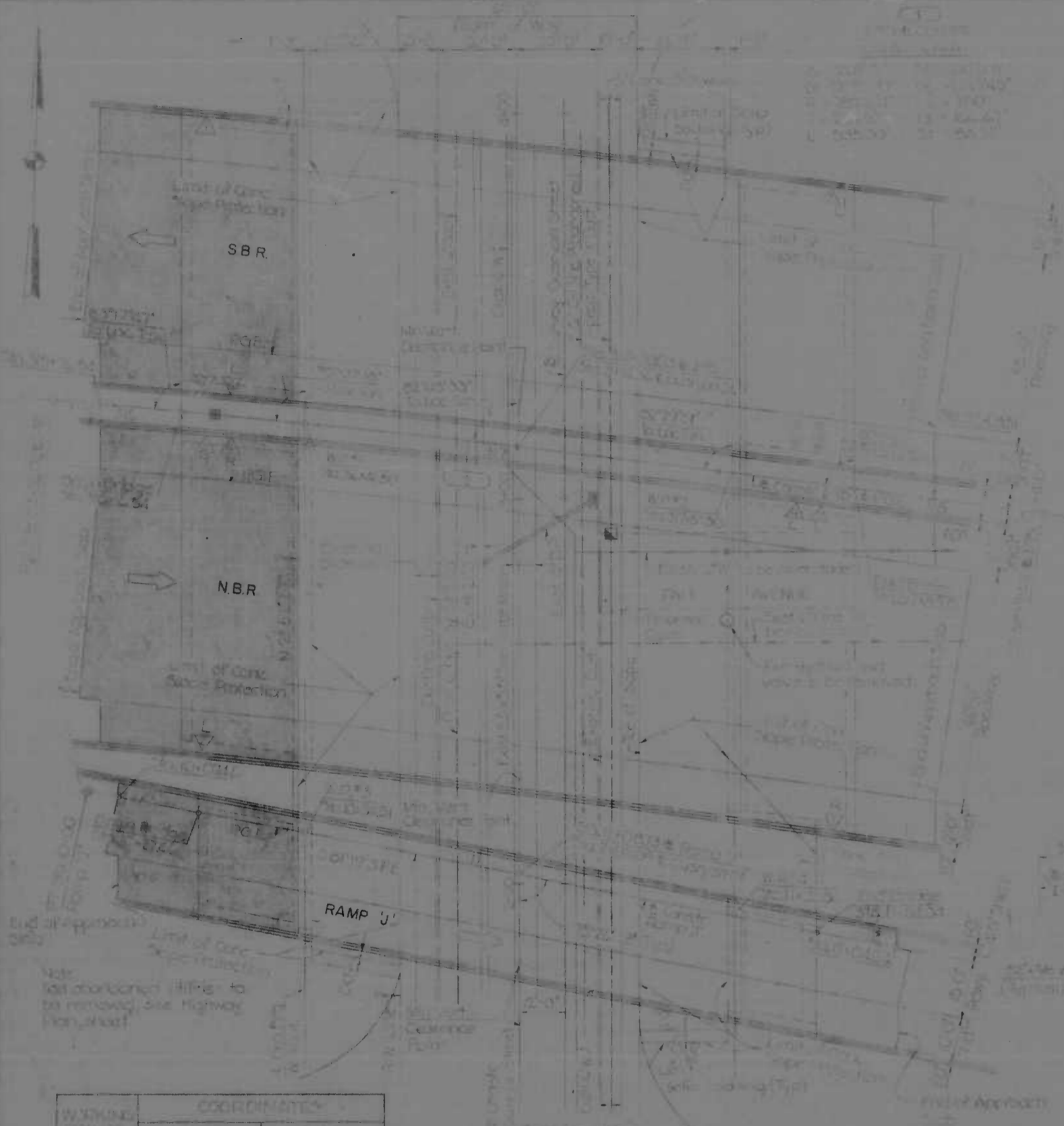


N.I.C.



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	WHITRELL, BENDER, STONE & ASSOC., INC. 1001 W. BALTIMORE ST. BALTIMORE, MD. 21201	INTERSTATE ROUTE 95 CONCRETE CRIB WALL 'D' AND 'E'	DRAWN BY: SDW TRACED BY: SDW F.A.P. NO.: I-95-4(39)34 S.R.C. NO.: BC 246-36-915 BALTO. CITY NO.: 1938
	DATE: MAY 11, 1973	SCALE: As Shown	DES. BY: M.S.C. CHK. BY: F.F.M. SHEET NO.: (119) 5-17 OF 5-33

NO. SHEET	DATE	ISS. NO.	DATE	NO. SHEETS
2	MO. 1-95-4 (39)34	5-18		(15)



PLAN

WORKED POINTS	COORDINATES	
	NORTH	EAST
1	5500.00	5100.00
2	5500.00	5100.00
3	5500.00	5100.00
4	5500.00	5100.00

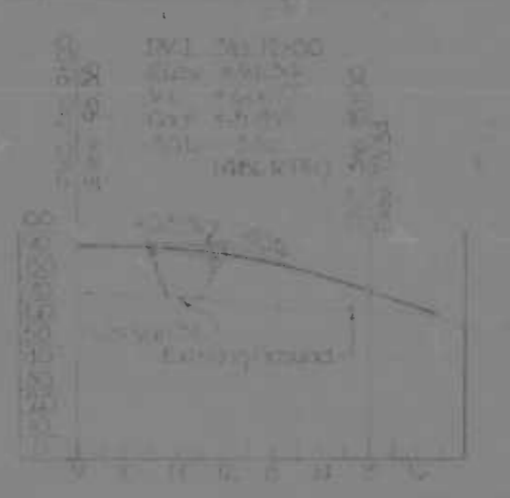
NOTES:
 1. Measured bridge data and proposed construction details are shown on this drawing. Items not shown are not in this project.
 2. Bridge deck is to be constructed on existing abutments and piers.
 3. Bridge deck is to be constructed on existing abutments and piers.
 4. Bridge deck is to be constructed on existing abutments and piers.



ELEVATION



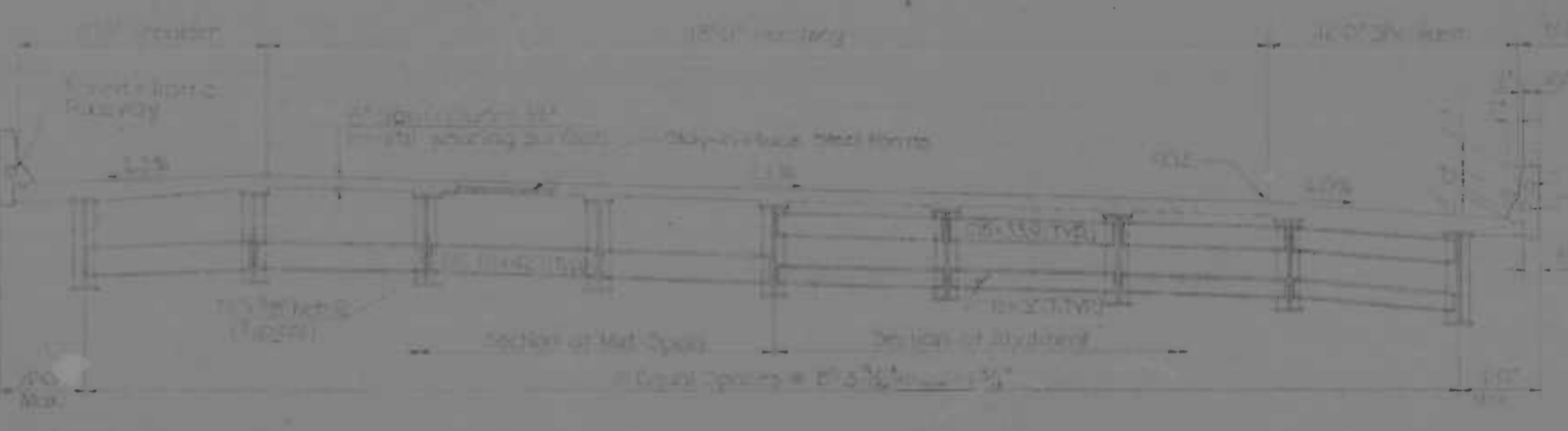
PROFILE I-95



PROFILE RAMP 'J'



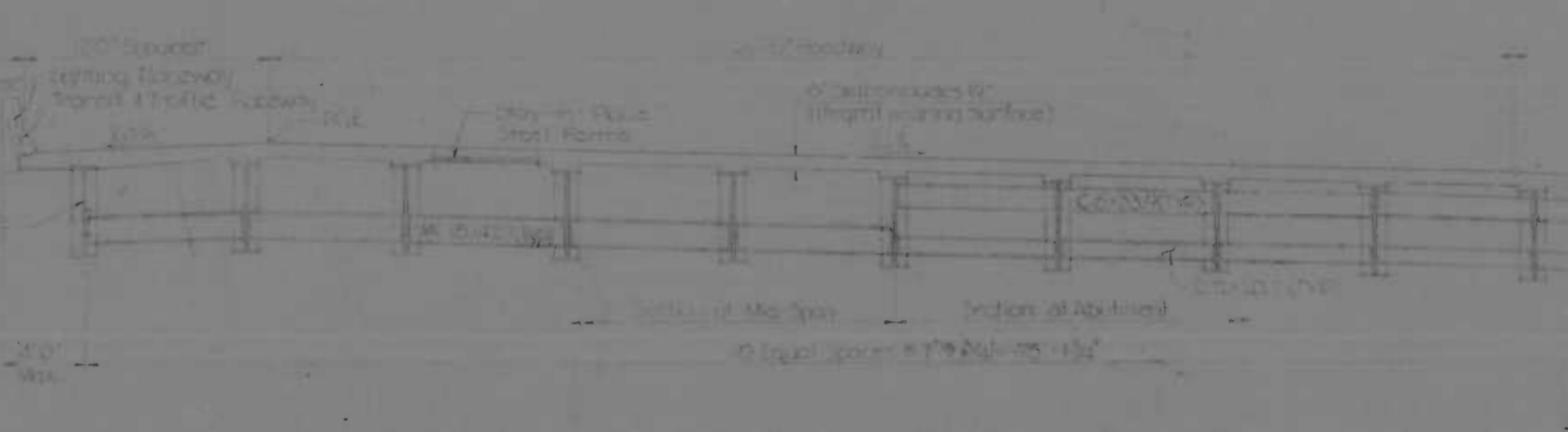
LOCATION PLAN



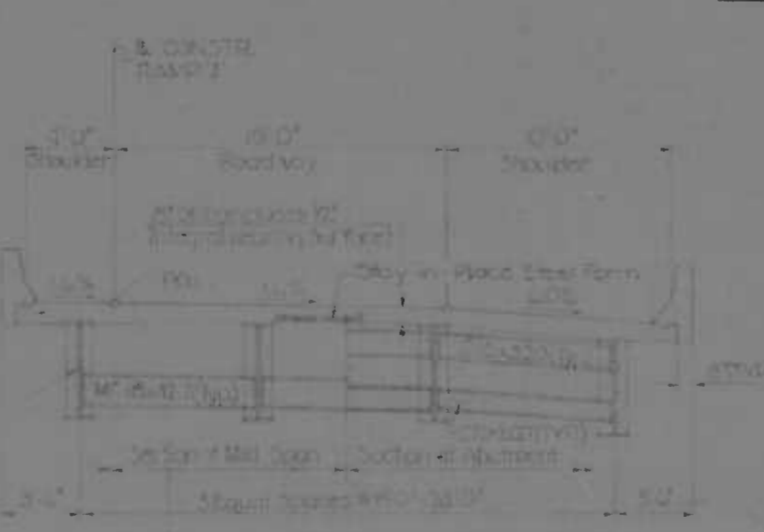
TYPICAL DECK SECTION - SBR



PROFILE GUSRAN STREET



TYPICAL DECK SECTION - N.B.R.



TYPICAL DECK SECTION - RAMP 'J'

GENERAL NOTES

1. ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY AVAILABLE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TRAFFIC AND PEDESTRIAN CROSSINGS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDSCAPE AND ENVIRONMENTAL FEATURES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING HISTORIC AND CULTURAL RESOURCES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ARCHITECTURAL AND ARTISTIC FEATURES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SCIENTIFIC AND HISTORIC MONUMENTS AND STRUCTURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING NATURAL AND CULTURAL RESOURCES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING HISTORIC AND CULTURAL RESOURCES.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ENGINEER, DESIGNER, STAFF & ASSOC., INC. 410 MAYZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 843 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE RTE 95 & RAMP "J" OVER GUSRAN STREET GENERAL PLAN AND ELEVATION	DRAWN BY: J.R.H. DESIGNED BY: A.E. CHECKED BY: J.R.H. DATE: MAY 11, 1977 SHEET NO. 3-18 OF 3-33

GUIDE SIGN MESSAGES, DETAILS AND DIMENSIONS
(EXTRUDED ALUMINUM PANELS WITH DEMOUNTABLE REFLECTOR COPY)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	SI-8	(119) SI-77

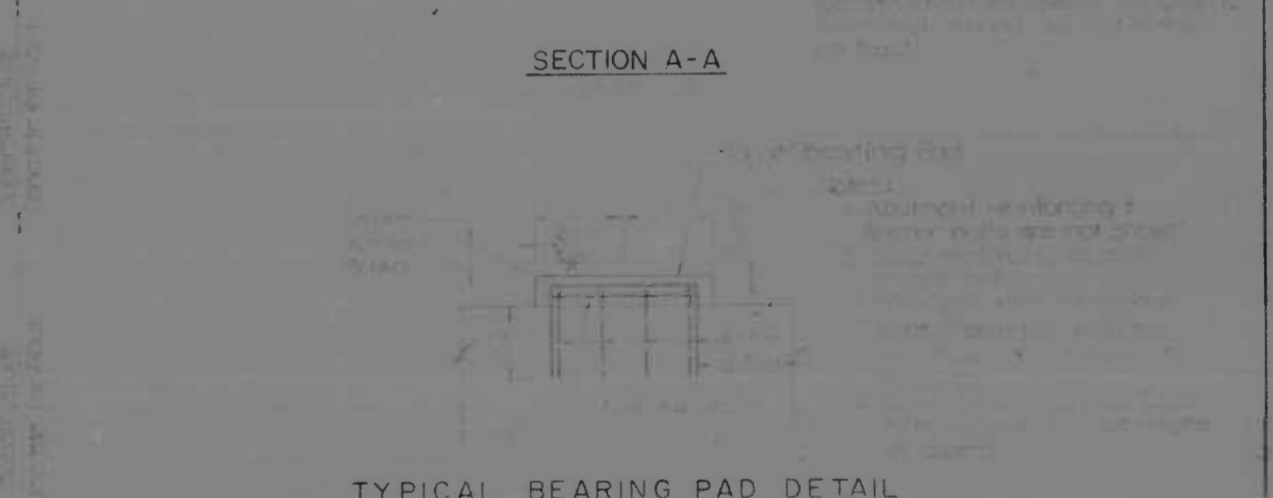
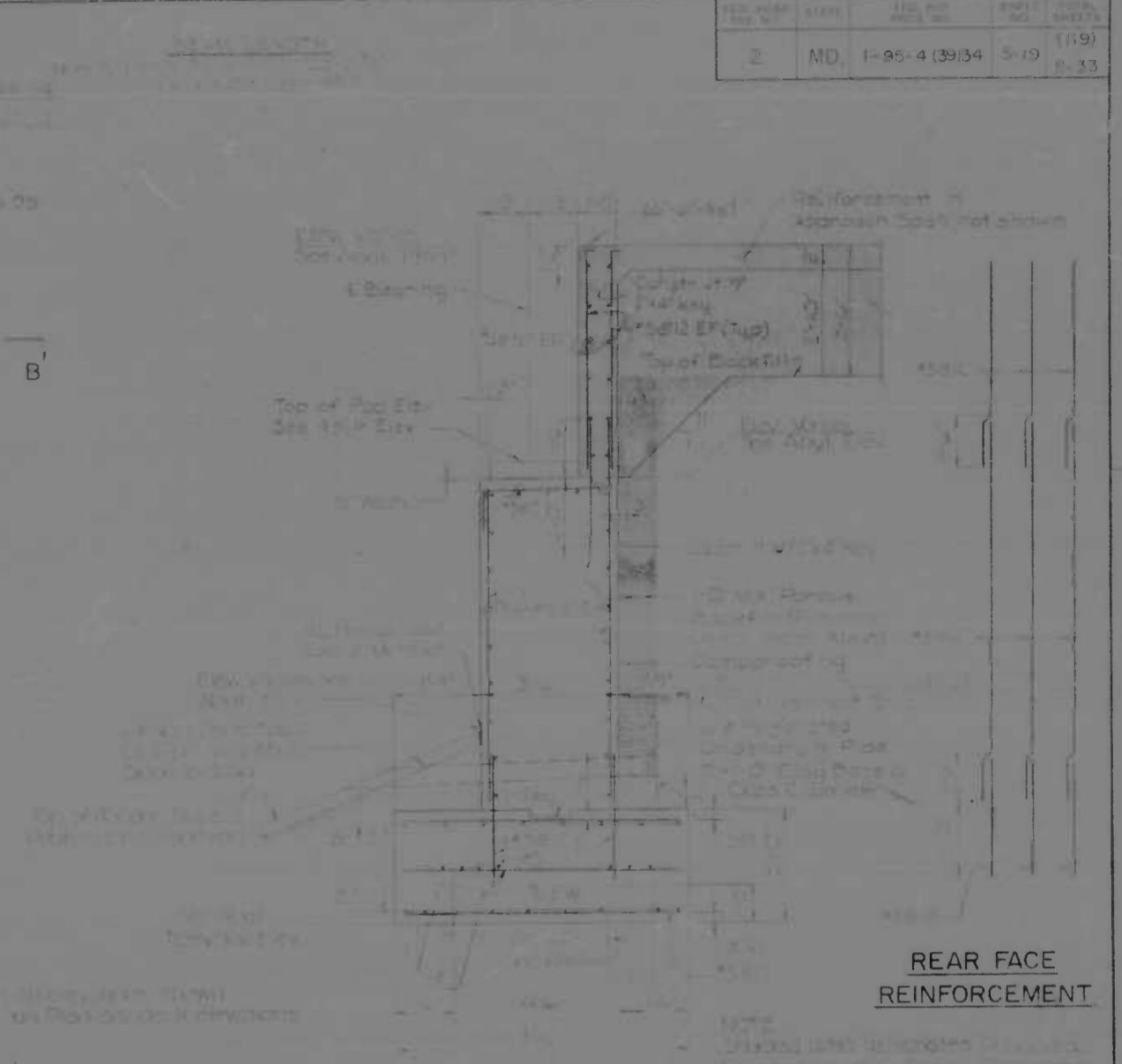
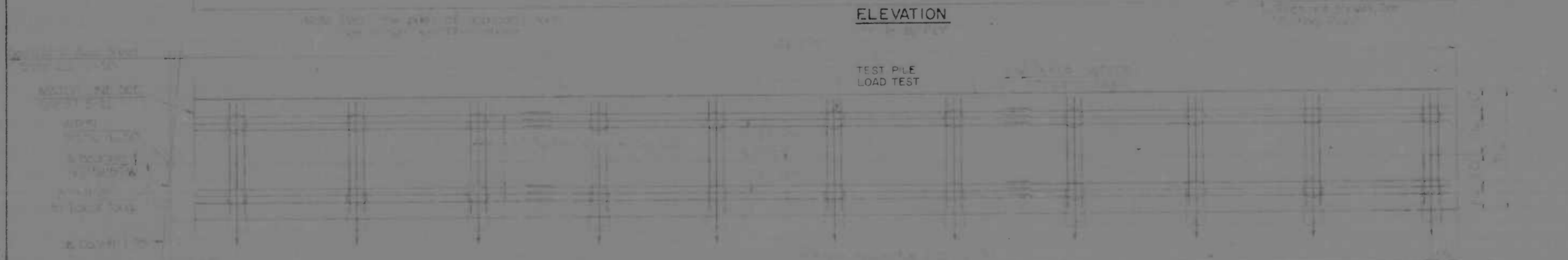
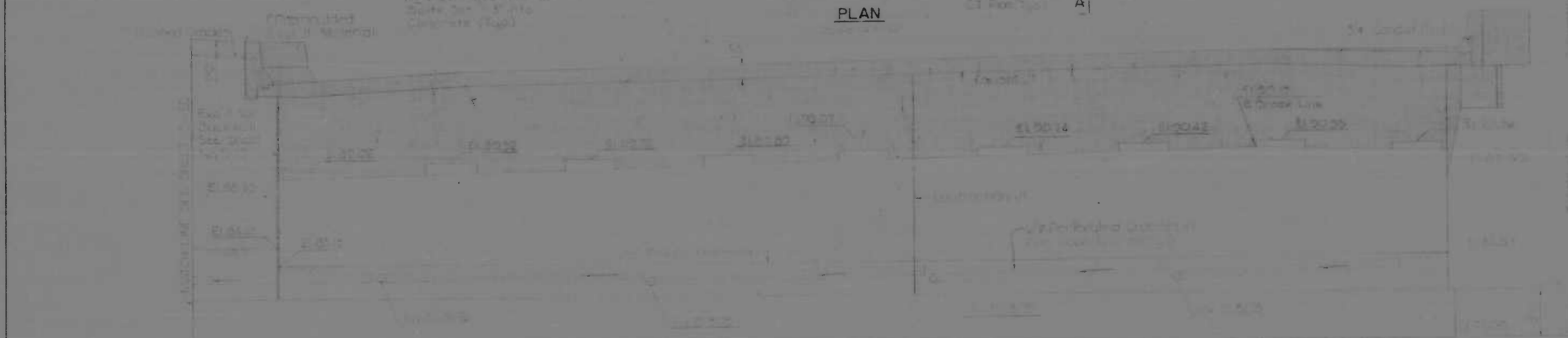
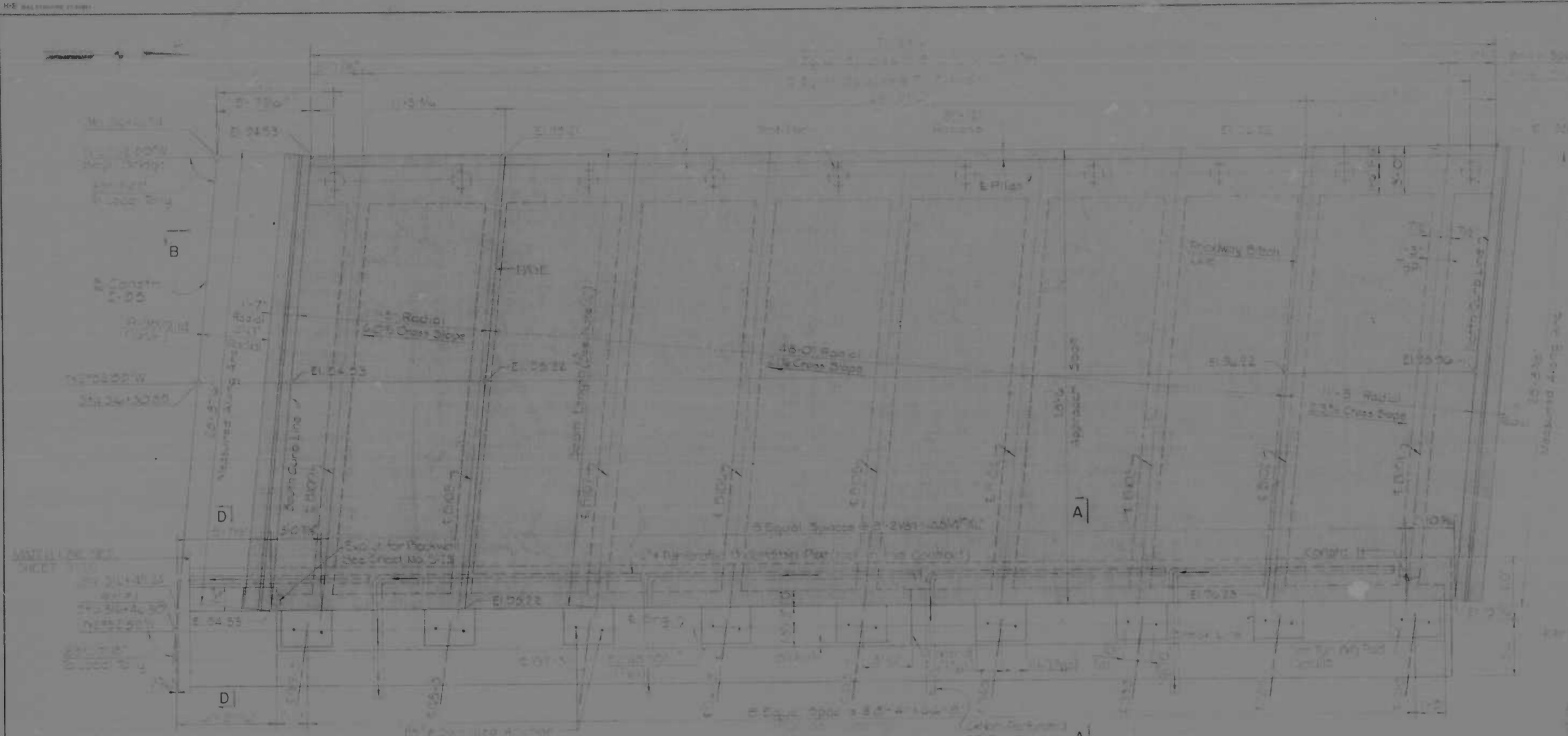
DESIGN SHEET	PANEL DESIGN-NATION	SHEET NO.	QUANTITY	LEGEND	SIZE		COLOR		BORDER			SHIELD	REMARKS
					WIDTH	HEIGHT	LEGEND	BACK GRD	WIDTH	RADIUS	ARROW		
43	19	SI-4	1		22'-0"	7'-0"	W	G	2"	10 1/2"	C-1	MD-5	Future Sign No. 24 Above (Not included This Contract)
9	20a	SI-5	1		13'-0"	8'-8"	W	G	2"	12"	-	IS-4	Deliver Letters "Washington" to the Dept. of Transit & Traffic.
10	20b	SI-5	1		12'-0"	8'-8"	W	G	2"	12"	-	IS-4	Deliver Letters "New York" to the Dept. of Transit & Traffic.
11	21	SI-5	1		13'-0"	9'-0"	W	G	2"	12"	A-2 45°	IS-4	Deliver Letters "Washington" to the Dept. of Transit & Traffic.
42	22	SI-5	1		13'-0"	9'-0"	W	G	2"	12"	A-2 & EXT.	IS-4	Deliver Letters "Washington" to the Dept. of Transit & Traffic.
44	23	SI-5	1		22'-0"	7'-0"	W	G	2"	10 1/2"	C-1	MD-5	Future Sign No. 24 Above (Not included This Contract)

DESIGN SHEET	PANEL DESIGN-NATION	SHEET NO.	QUANTITY	LEGEND	SIZE		COLOR		BORDER			SHIELD	REMARKS
					WIDTH	HEIGHT	LEGEND	BACK GRD	WIDTH	RADIUS	ARROW		
38	24	SI-3 SI-4 SI-5	Future		10'-6"	3'-6"	W	G	2"	5 1/4"	-	Future Sign Not Included In This Contract	
38a	25	SI-3	Future		16'-0"	3'-6"	W	G	2"	5 1/4"	-	Future Sign Not Included In This Contract	

- NOTES:
- FOR SHIELD AND ARROW DETAILS, SEE SHEET NO. SI-10
 - COLOR LEGEND, W-WHITE, G-GREEN, Y-YELLOW, BLK-BLACK
 - INDICATES FUTURE LEGEND-INSTALLATION ONLY (BY OTHERS)
 - INDICATES FUTURE (BY OTHERS)

REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
REVISIONS 7-15-74	WHEEL, BENDER, STONE & ASSOC., INC. AND MATZ, COOPER & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	DEPARTMENT OF PUBLIC WORKS	INTERSTATE DIVISION FOR BALTIMORE CITY
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY S.G.M. TRACED BY S.G.M. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO CITY NO. 1998
		SCALE 3/16" = 1'-0"	DATE MAY 11, 1973
			DESIGN BY A.L.B. D.G.M. CHK BY J.L.C. SHEET NO. (119) SI-8 OF SI-17

110	MD	1-95-4 (39)34	5-19	0-33
2				(119)



REVISIONS

CONSULTANT

ENGINEER, BENDER, STONE & ASSOCIATES, INC.

MATZ, CHODURA & ASSOCIATES, INC.

CONSULTING ENGINEERS

841 N. CALVERT STREET

BALTIMORE, MARYLAND 21202

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS

STATE ROADS COMMISSION OF MARYLAND
INTERSTATE DIVISION FOR BALTIMORE CITY

INTERSTATE RTE. 95 & RAMP "J" OVER
GUSRYAN STREET
S B R WEST ABUTMENT

SCALE: As Shown

DATE: MAY 11, 1972

DRAWN BY: FD
CHECKED BY: M.E.C.

P.A.P. NO. 1-95-4 (39)34
S.R.C. NO. BC 246-36-88

DATE: MAY 11, 1972

SHEET NO. (119)
5-19 of 5-33

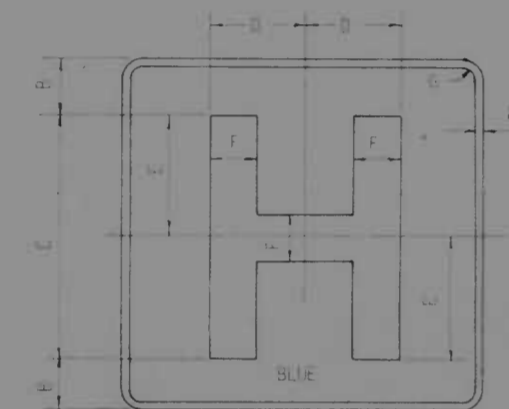
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ENGINEER, BENDER, STONE & ASSOCIATES, INC.	INTERSTATE RTE. 95 & RAMP "J" OVER GUSRYAN STREET	DRAWN BY: FD CHECKED BY: M.E.C.
	MATZ, CHODURA & ASSOCIATES, INC.	S B R WEST ABUTMENT	P.A.P. NO. 1-95-4 (39)34 S.R.C. NO. BC 246-36-88
	CONSULTING ENGINEERS	SCALE: As Shown	DATE: MAY 11, 1972
	841 N. CALVERT STREET		SHEET NO. (119) 5-19 of 5-33
	BALTIMORE, MARYLAND 21202		



LEGEND AND BORDER - BLACK (NON-REFLECTORIZED)
BACKGROUND - WHITE (REFLECTORIZED)

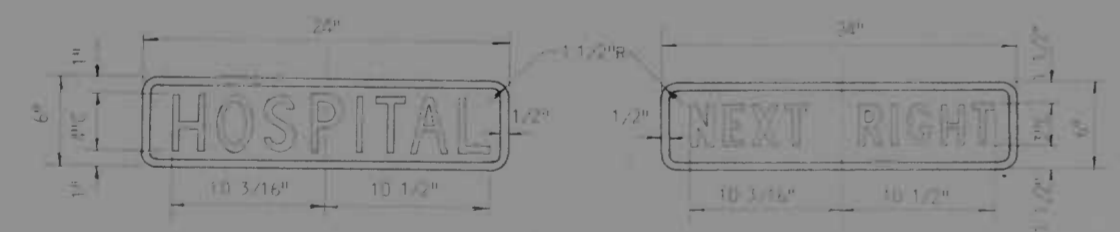
SIGN SIZE	DIMENSIONS										SERIES	WARD BORDER
	A	B	C	D	E	F	G	H	I	J		
36"x60"	36	60	1 1/2	3	2 1/2	3	4	20 1/2	6	3/8	3/8	
48"x107"	48	107	1 1/2	3	2 1/2	3	4	20 1/2	6	3/8	3/8	

W - S



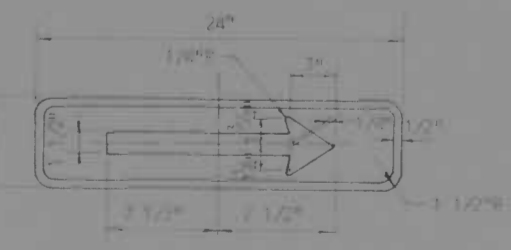
WHITE LEGEND AND BORDER,
BLUE BACKGROUND

SIGN SIZE	DIMENSIONS (INCHES)							DESIGNATION
	A	B	C	D	E	F	G	
20"x20"	1 1/2	4	16	1 1/8	3 1/8	3 1/4	1 1/2	RP-2(1A)
30"x30"	3/4	5	20	1 1/8	4	4 1/8	1 1/2	RP-2(1B)



WHITE LEGEND AND BORDER,
BLUE BACKGROUND

D 9 - 2 a



WHITE LEGEND AND BORDER,
BLUE BACKGROUND

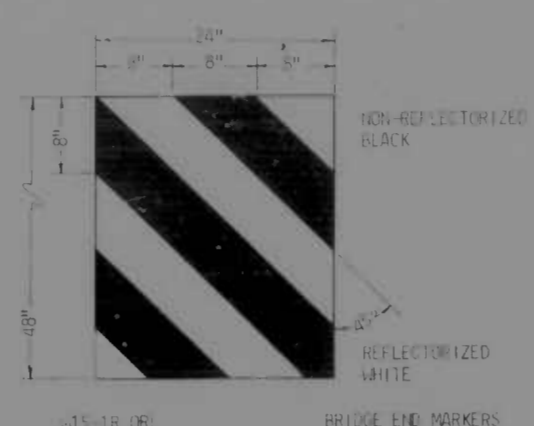
D 9 - 2 b



COLOR: LEGEND AND BORDER - BLACK (NON-REFLECTORIZED)
BACKGROUND - WHITE (REFLECTORIZED)

SIGN SIZE	DIMENSIONS					SERIES	WARD BORDER
	A	B	C	D	E		
36"x60"	36	60	1 1/2	3	4	20 1/2	3/8
48"x107"	48	107	1 1/2	3	4	20 1/2	3/8

R 2 - 1 A (E)



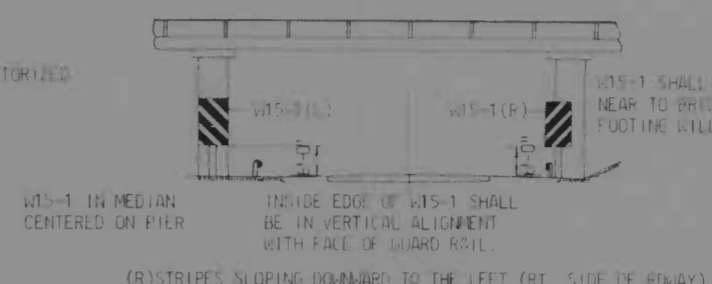
W15-1R OR

BRIDGE END MARKERS

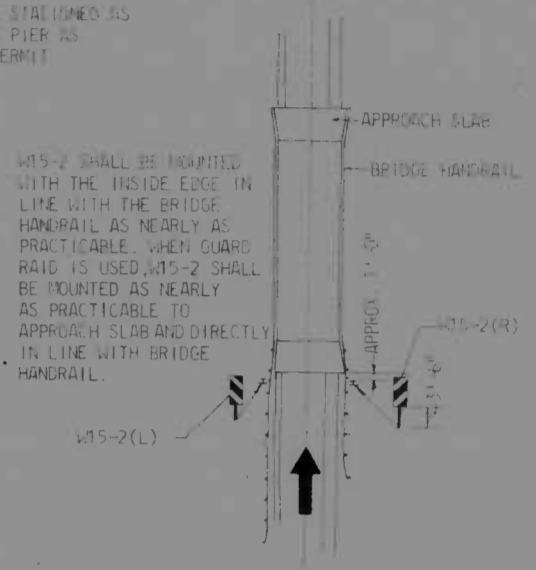
(B.E.M.S.)

W15-2R OR

N.I.T.C.



W15-1 SHALL BE STATIONED AS NEAR TO BRIDGE PIER AS FOOTING WILL PERMIT



W15-2 SHALL BE MOUNTED WITH THE INSIDE EDGE IN LINE WITH THE BRIDGE HANDRAIL AS NEARLY AS PRACTICABLE. WHEN GUARD RAIL IS USED, W15-2 SHALL BE MOUNTED AS NEARLY AS PRACTICABLE TO APPROACH SLAB AND DIRECTLY IN LINE WITH BRIDGE HANDRAIL.

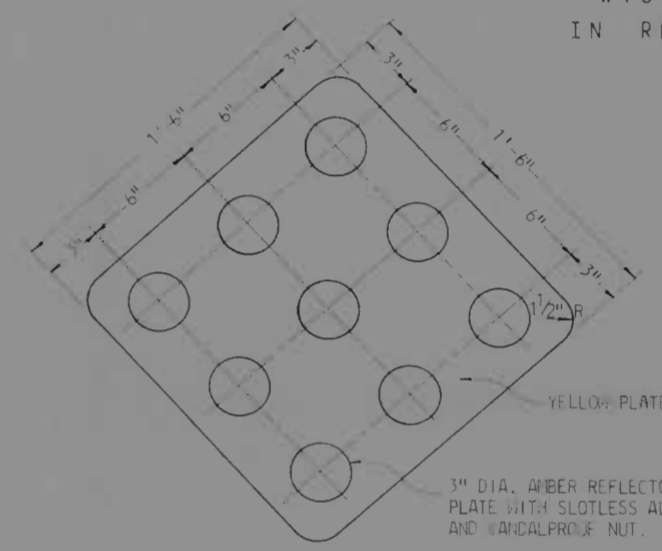
N.I.T.C.



BLACK LEGEND AND BORDER, WHITE BACKGROUND

R 11 - 2

48" X 30"



3" DIA. ASPER REFLECTOR ATTACHED TO PLATE WITH SLOTTED ALUMINUM SCREW AND WING NUT.

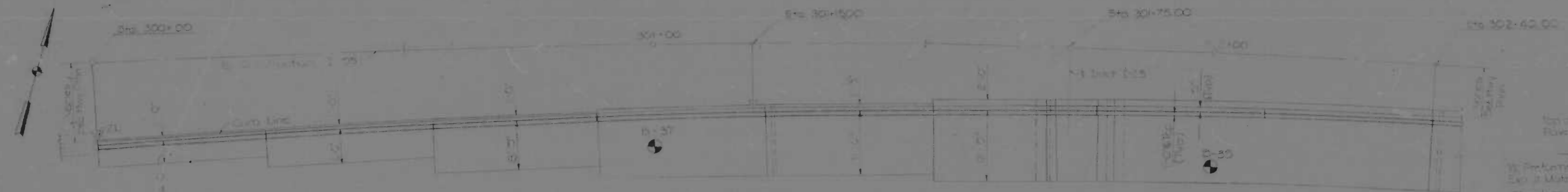
NOTES:

- FOR STANDARD SIGN ASSEMBLY SUPPORT NUMBERS SEE SHEET NO. SI-2
- FOR STANDARD SIGN SUPPORTS SEE SHEET NO. SI-13
- THE RED TELEPHONE SYMBOLS SHOWN ON T-1, T-2 AND T-3 SHALL BE OUTLINED WITH A 1/4" THICK WHITE BORDER

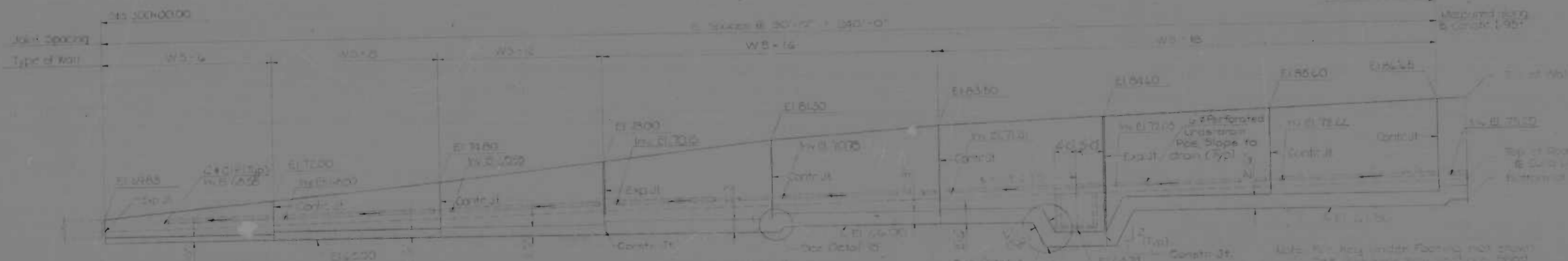
N. I. T. C. - NOT IN THIS CONTRACT

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. REVISED NOTES MAY 10, 1973	KROERL, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 941 N. CALVERT STREET BALTIMORE, MARYLAND 21203	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: _____ CHECKED BY: _____ DATE: MAY 8, 1973 SHEET NO. 019 81-9 of 81-17

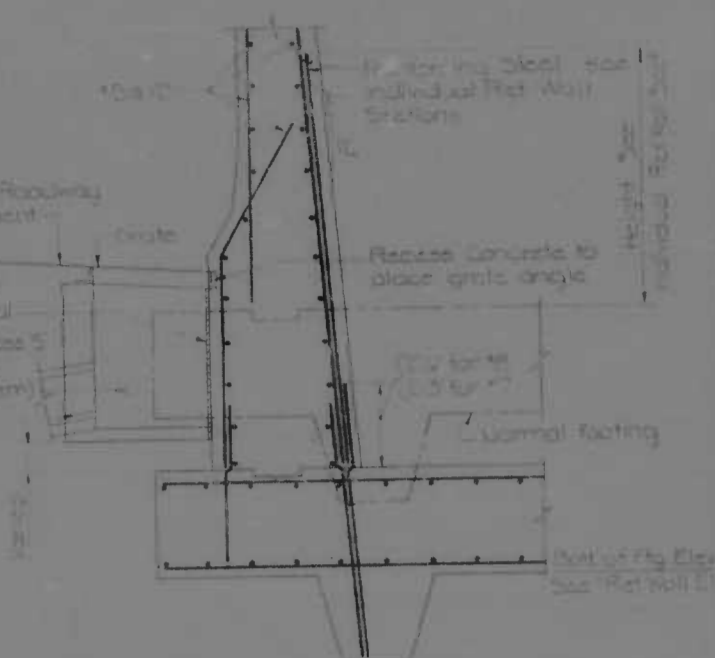
NO. SHEET	STATE	F.P. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	S-2	(119)
				S-33



PLAN
FROM STA 300 + 0000 To STA 302 + 4000



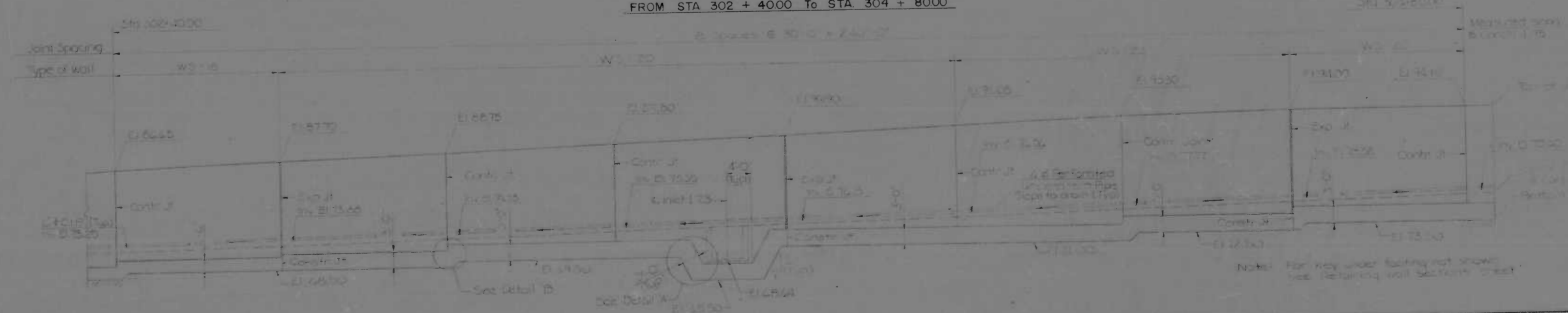
ELEVATION
FROM STA 300 + 0000 To STA 302 + 4000



DETAILS FOR RETAINING WALL 'B' AT INLET
Scale: 3/4" = 1'-0"



PLAN
FROM STA 302 + 4000 To STA 304 + 8000



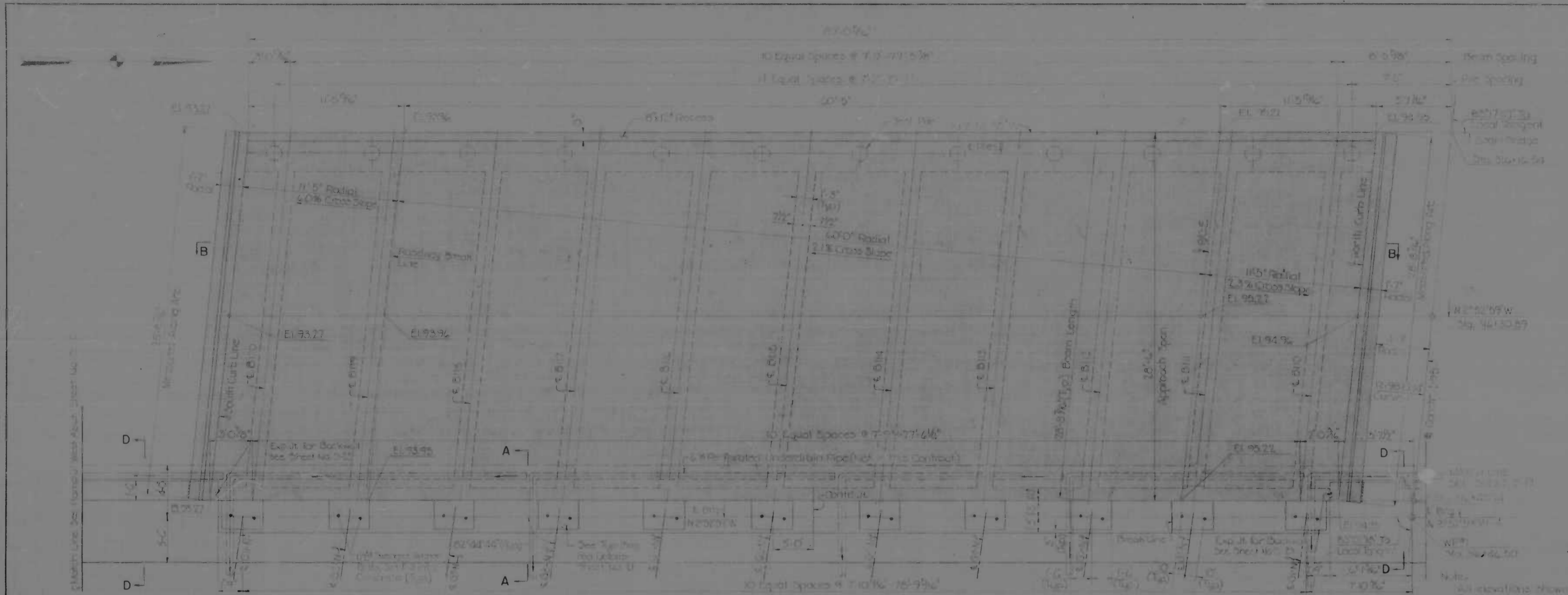
ELEVATION
FROM STA 302 + 4000 To STA 304 + 8000

NOTES:
For design purposes, the foundation bearing capacity shall not exceed 1.75 T.
All retaining wall sections shall be shown in general notes.

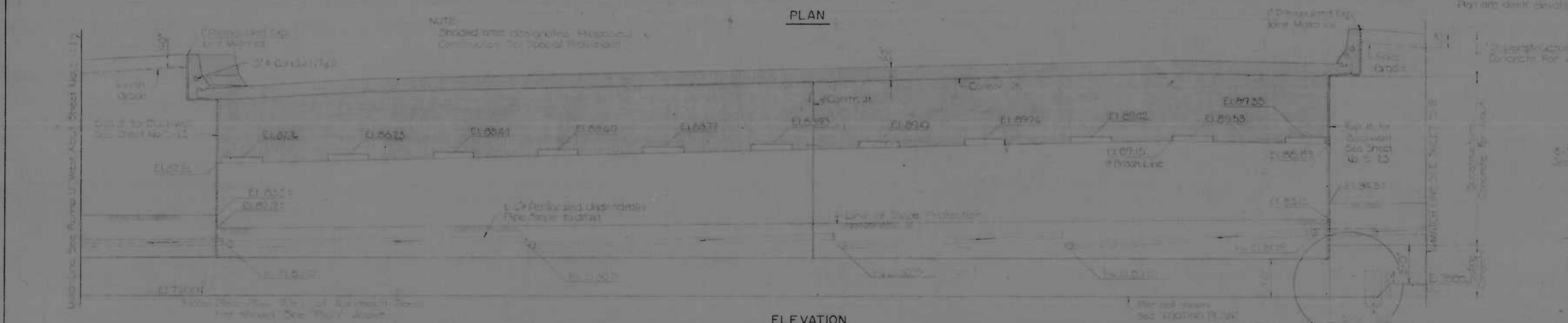
LEGEND:
W indicates location of Transit and Traffic Full Deck
D indicates location

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 RETAINING WALL 'B'	GENERAL PLAN AND ELEVATION - I
SCALE: 1" = 10'-0"	DATE: MAY 1, 1973	DRAWN BY: SDW TRACED BY: SDW	DES. BY: C.Y.T. CHK. BY: M.S.C.
		F.P. NO.: I-95-4(39)34 S.R.C. NO.: BC 246-36-815 BALTO. CITY NO.: 1998	SHEET NO.: (119) S-2 OF S-33

DATE	BY	APP. NO.	REV.	DESCRIPTION
2	MD	1-95-4(39)34	1-20	(119) 8-33



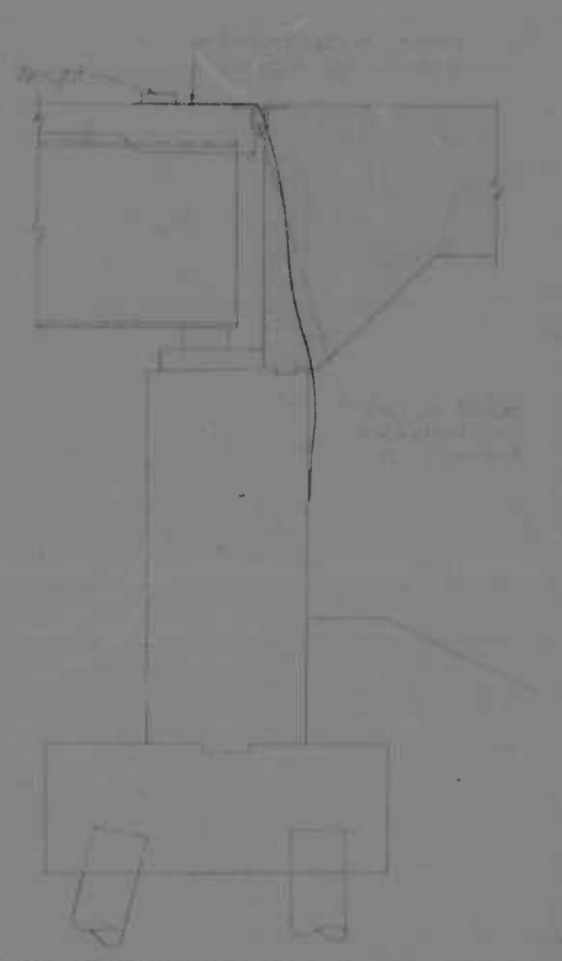
PLAN



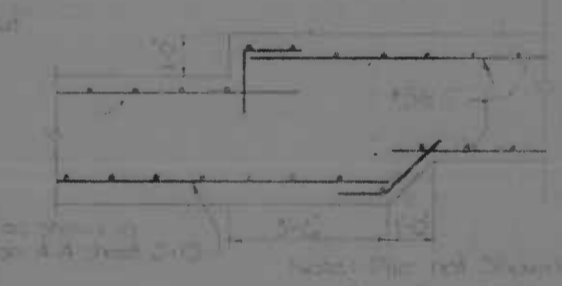
ELEVATION



FOOTING PLAN



ABUTMENT PROTECTION DETAIL FOR OPTIONAL CONSTRUCTION



DETAIL 'A'

NOTE: Shaded area indicates structural construction for optional provision.

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		

SCALE: 1/4" = 1'-0"

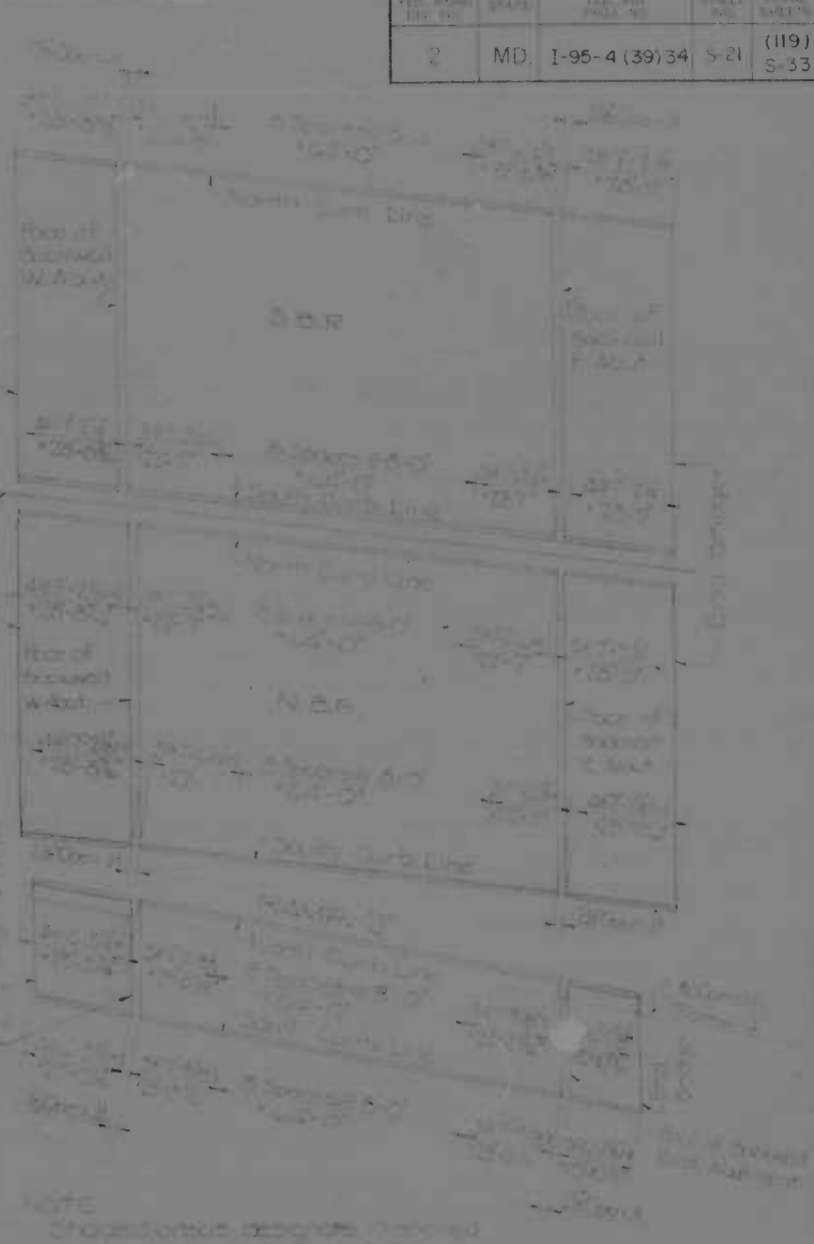
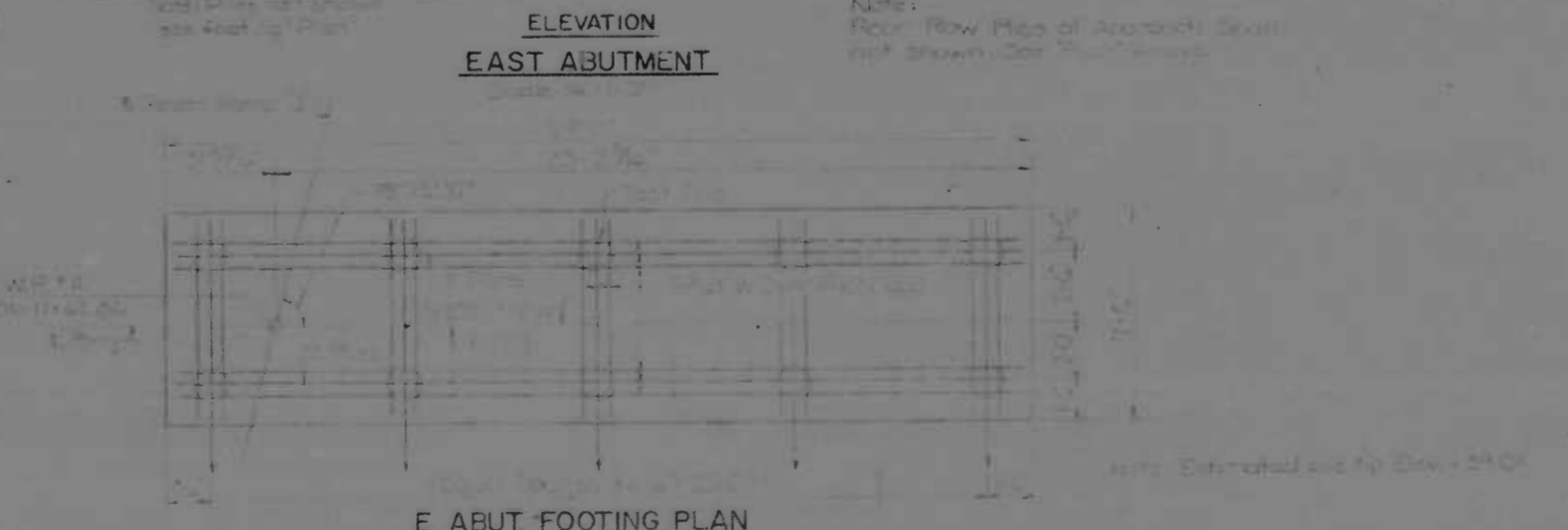
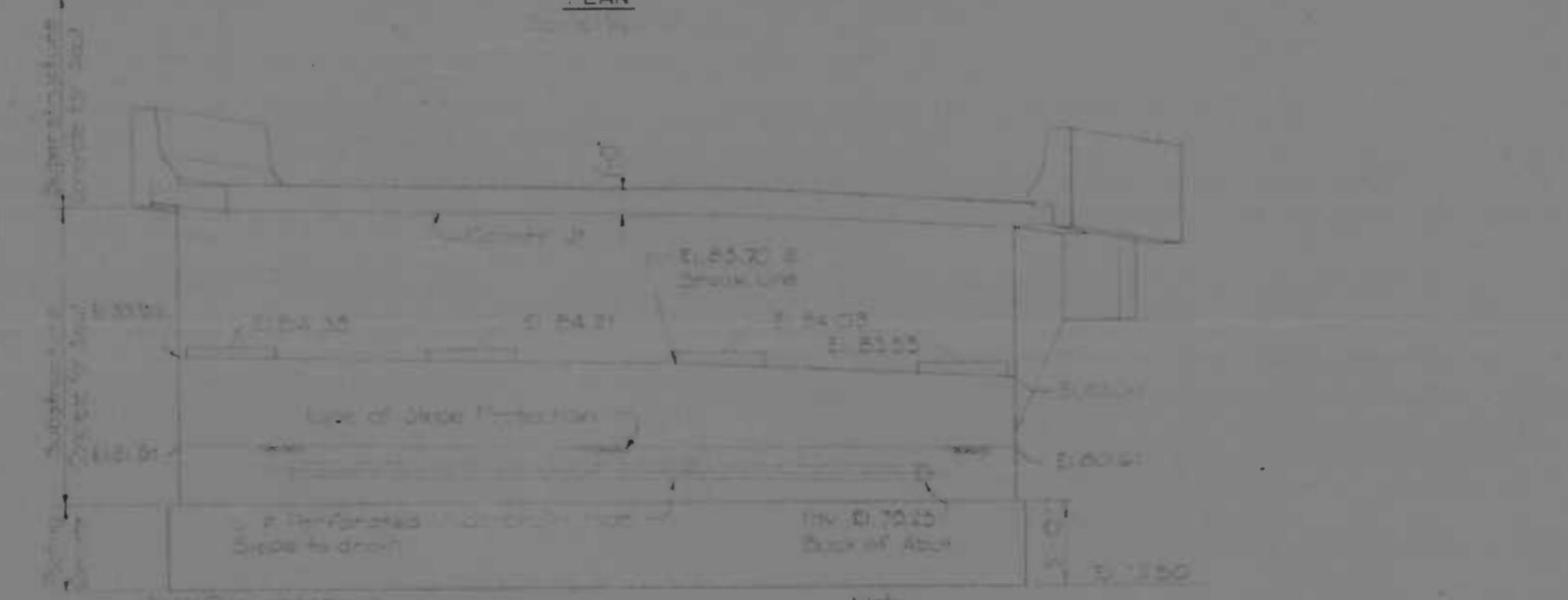
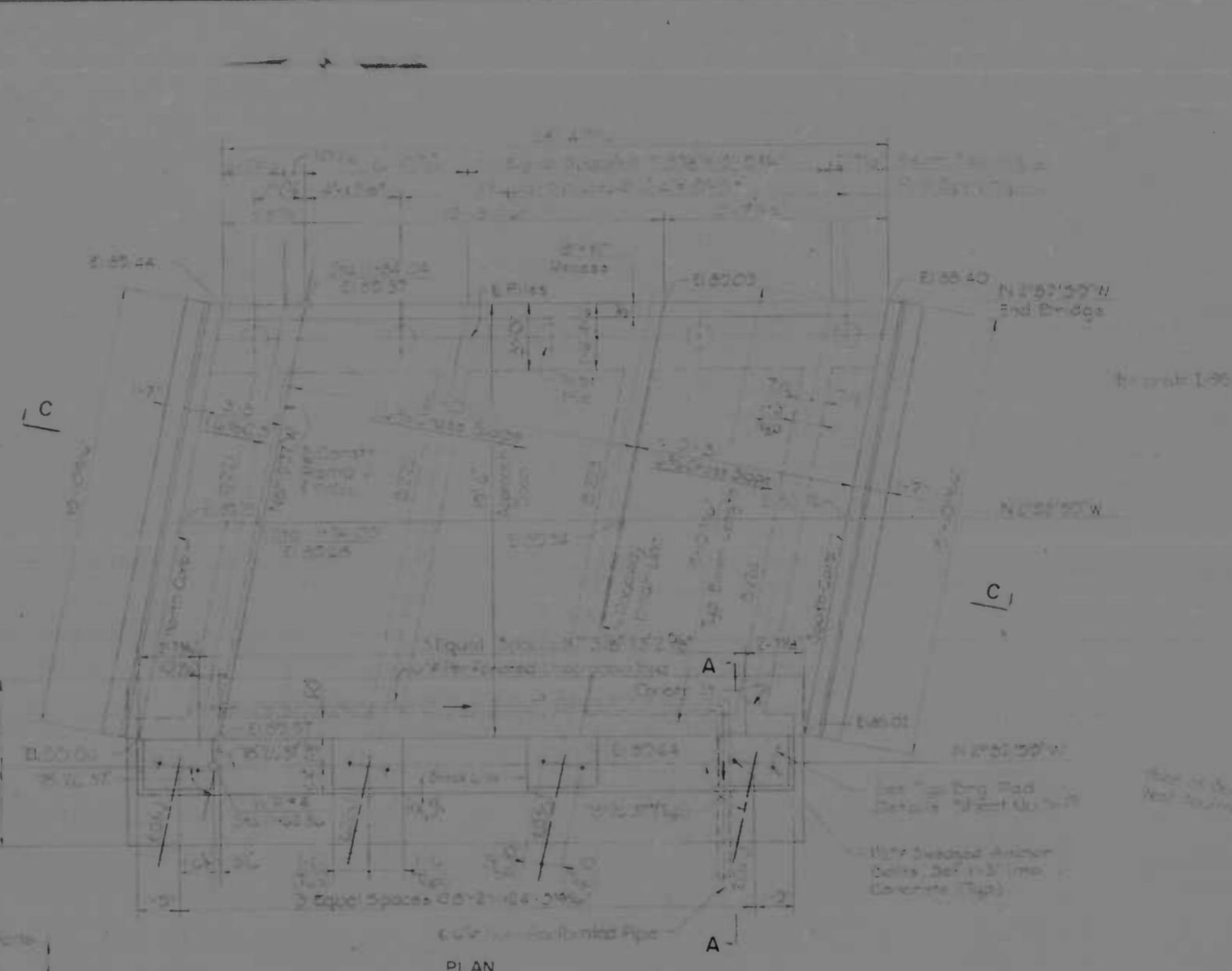
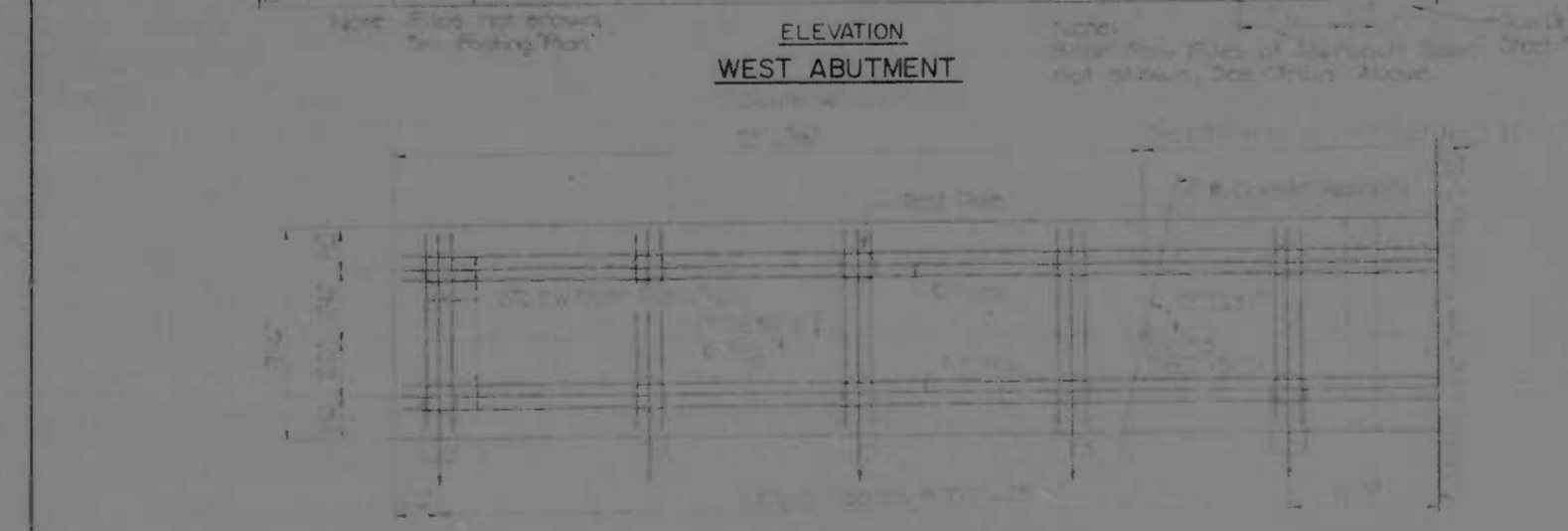
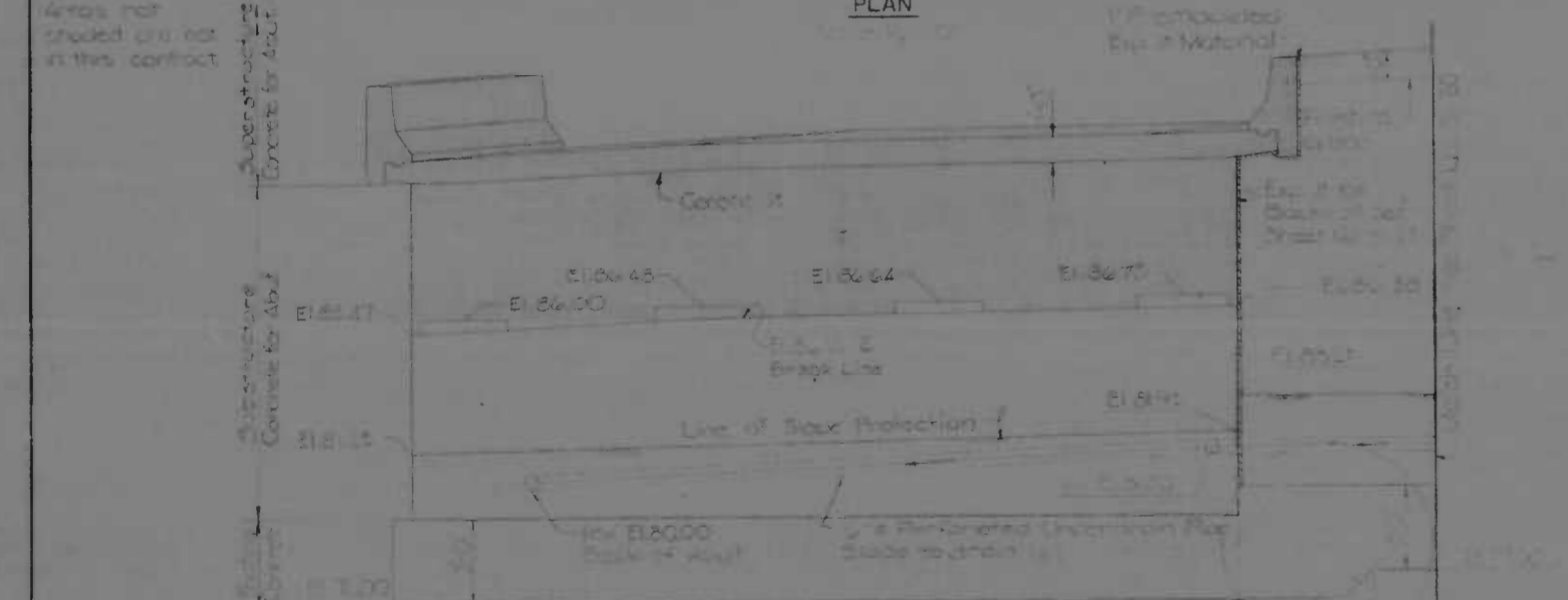
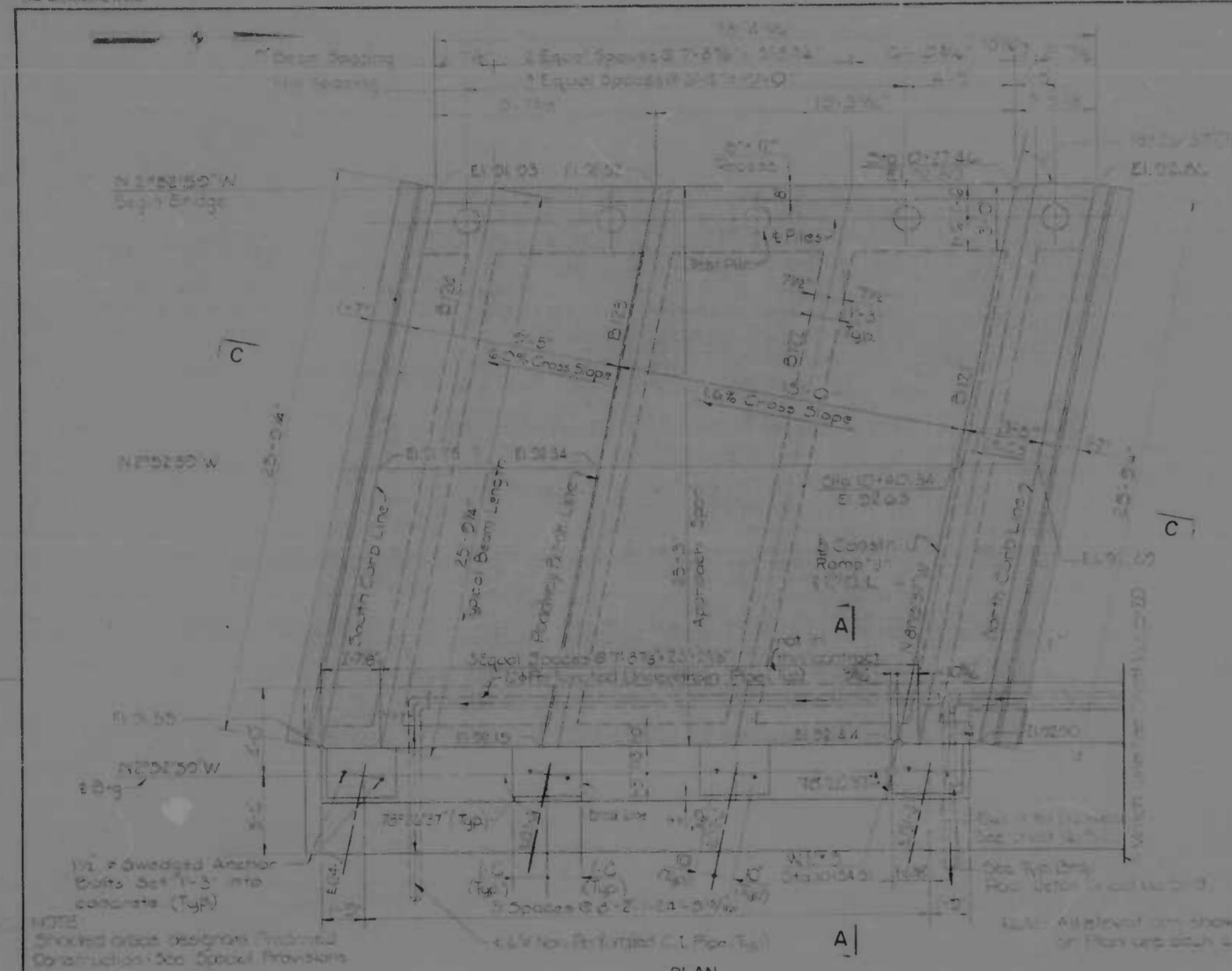
CONSULTANT
KIMBLE, BENNER, STONE & ASSOC., INC.
 AND
MATZ, CHILDS & ADER, INC.
 CONSULTING ENGINEERS
 941 N. CALVERT STREET
 BALTIMORE, MARYLAND 21208

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS &
 INTERSTATE RTE. 95 B RAMP OVER
 GUSRYAN STREET
 NBR WEST ABUTMENT

STATE ROADS COMMISSION OF MARYLAND
 INTERSTATE DIVISION FOR BALTIMORE CITY

DESIGNED BY	JRH	CHECKED BY	AF B&EE
TRACED BY	JRH	DESIGNED BY	MSC
DATE	1-95-4(39)34		
PROJECT NO.	BC 246.36.815		
BALTO. CITY NO.	1396		

NO. OF SHEETS	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4 (39)34	5-21	(119) S-33



NOTE: Shaded areas indicate proposed construction. Areas not shaded are not in the contract.

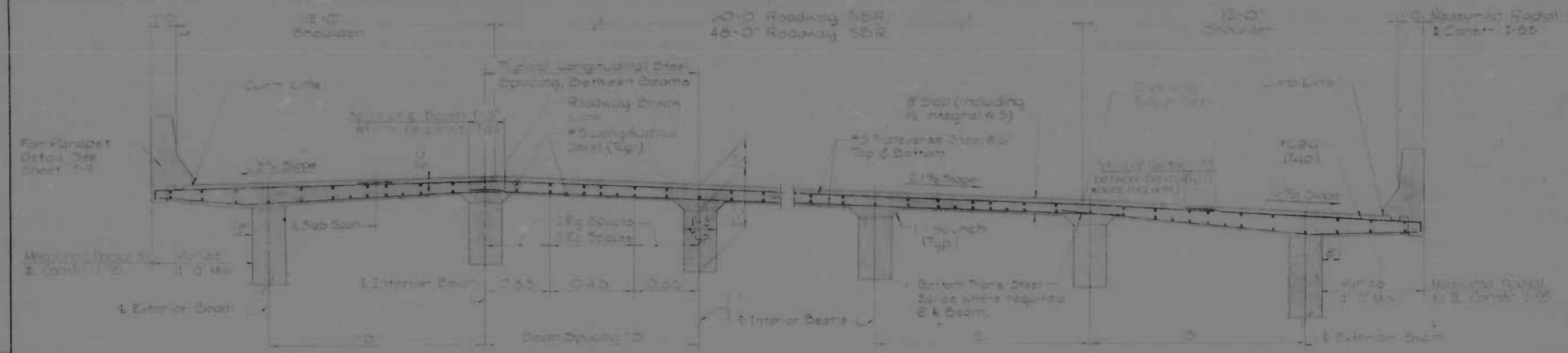
1. All elevations are shown on Plan and Elevation. Areas not shown are not in the contract.

2. All elevations are shown on Plan and Elevation. Areas not shown are not in the contract.

3. All elevations are shown on Plan and Elevation. Areas not shown are not in the contract.

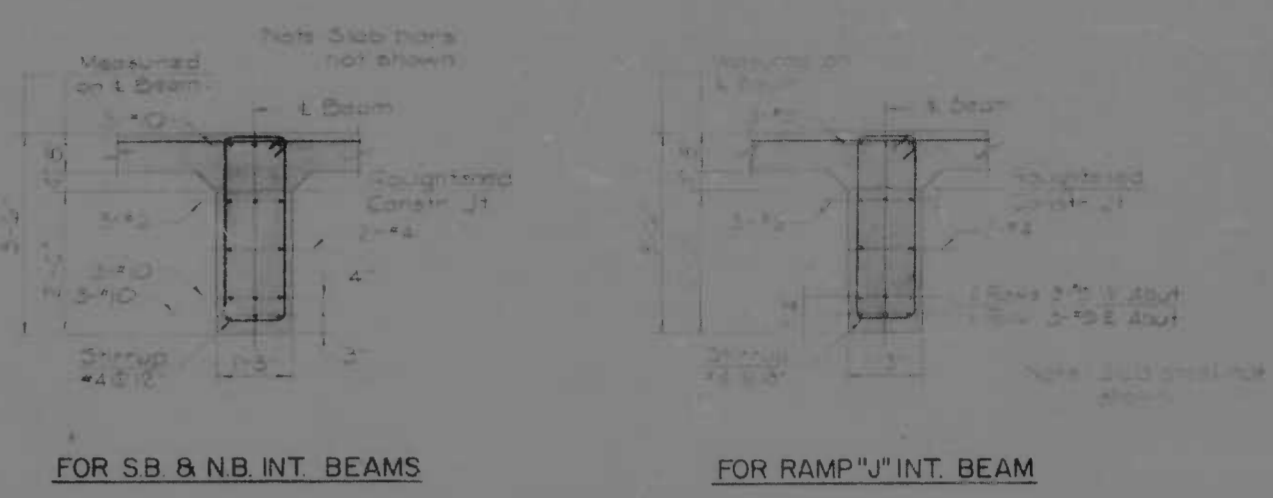
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KING, BENDER, STONE & ASSOC., INC. CONSULTING ENGINEERS 843 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE RTE 95 & RAMP "J" OVER GUSRYAN STREET WEST AND EAST ABUTMENT RAMP "J"	DRAWN BY: PD CHECKED BY: PD DESIGNER: AE S ABE CHECKED BY: M S C
		SCALE: As Shown	DATE: MAY 11, 1973
			SHEET NO. 5-21 OF 33

FILE NO.	DATE	REV. NO.	BY	CHK.	DATE
2	MD	1-95-4(39)34	S-22	(119)	S-33



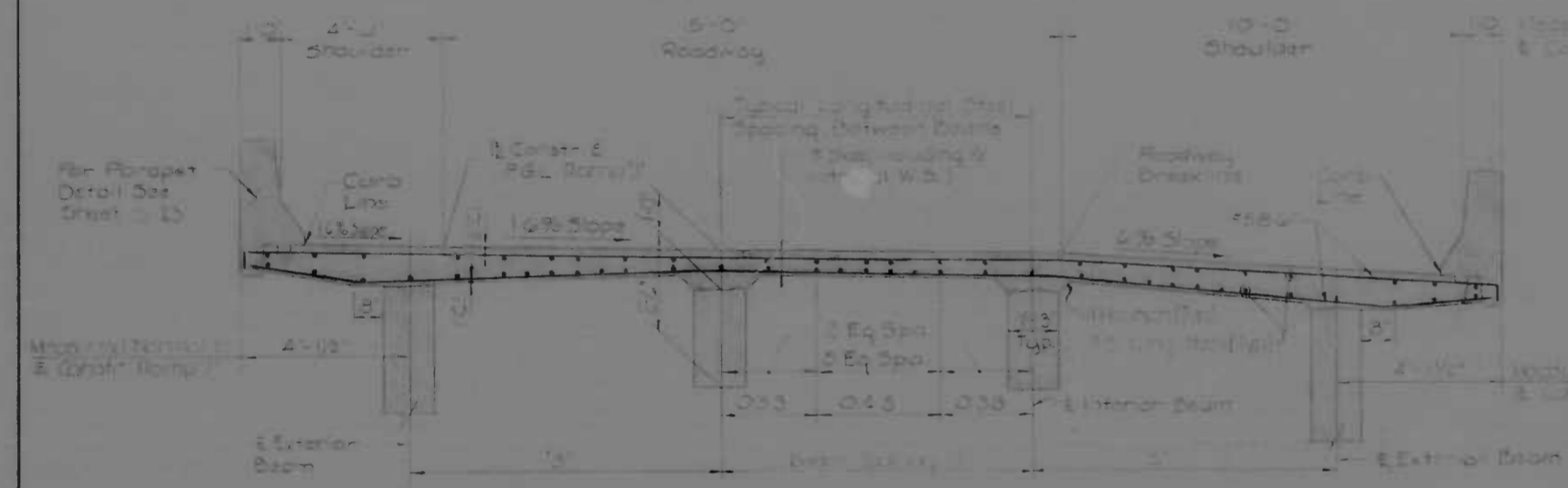
SECTION B-B
Scale 1/2"=1'-0"

- Notes:
- Reinforcing steel in concrete beams not shown.
 - For beam spacing, 3 and splice dimensions, see 42' Approach Plan.
 - Place transverse sub-beams parallel to E Beams and longitudinal sub-beams as shown.

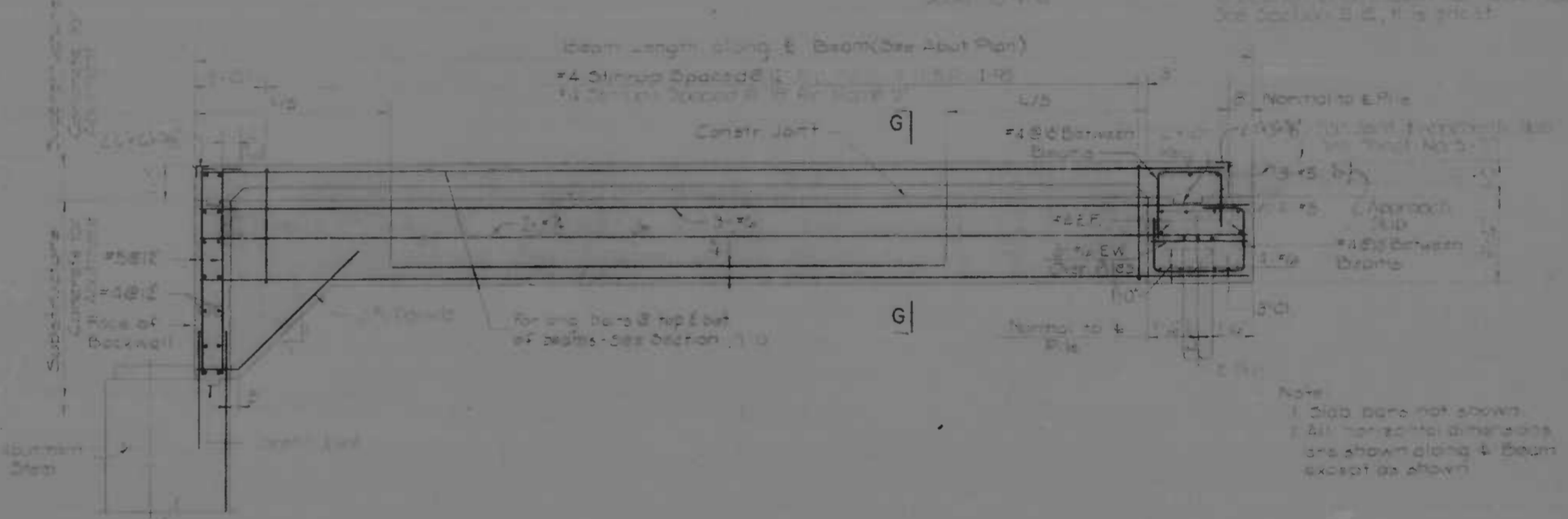


FOR SB & NB INT. BEAMS

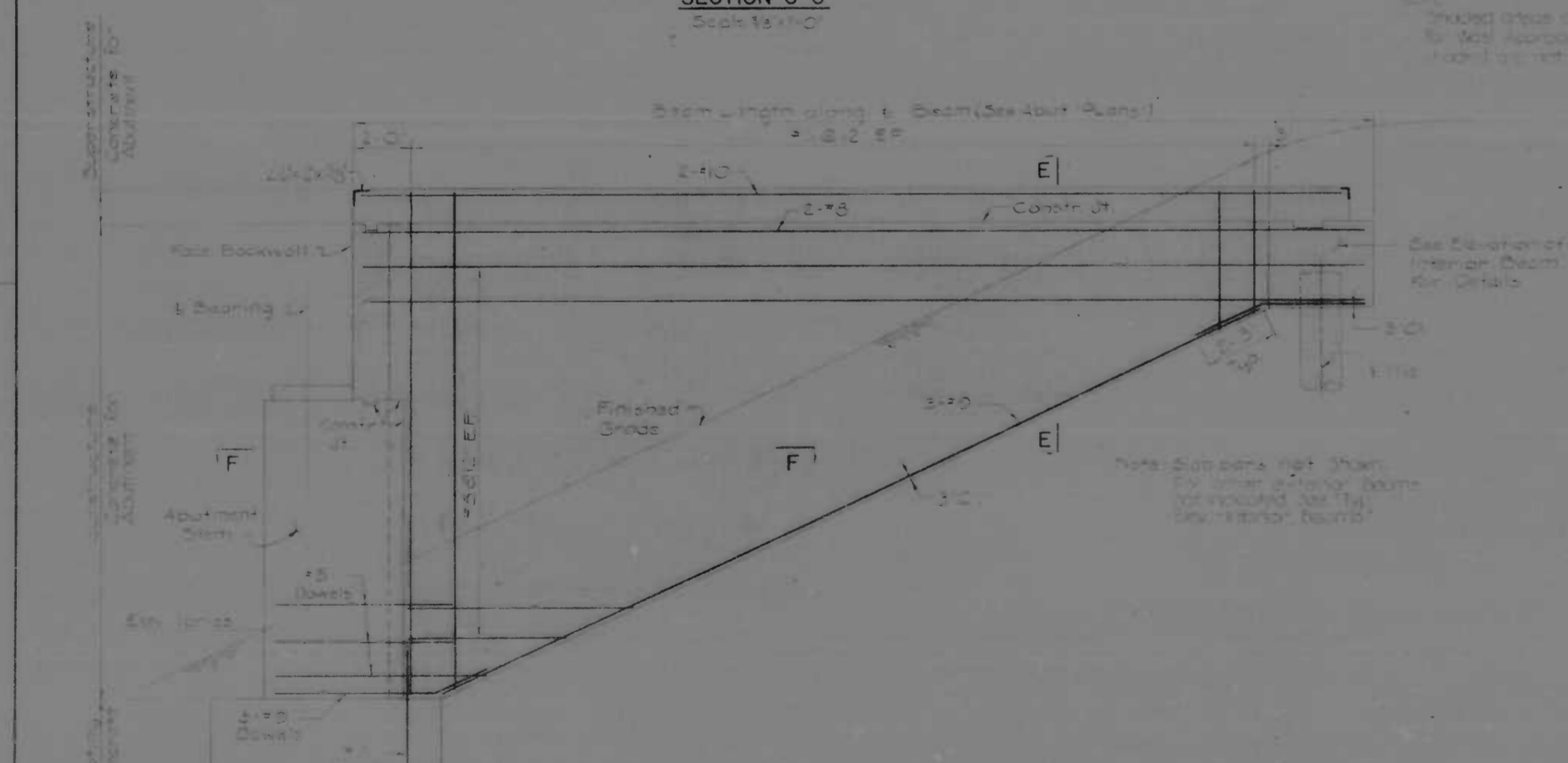
SECTION G-G
Scale 1/2"=1'-0"



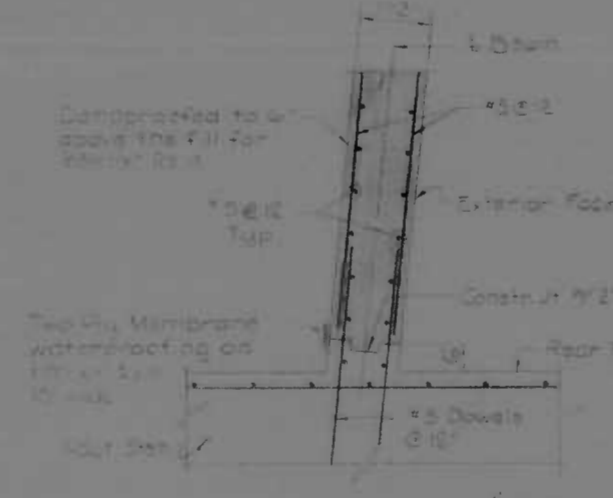
SECTION C-C
Scale 1/2"=1'-0"



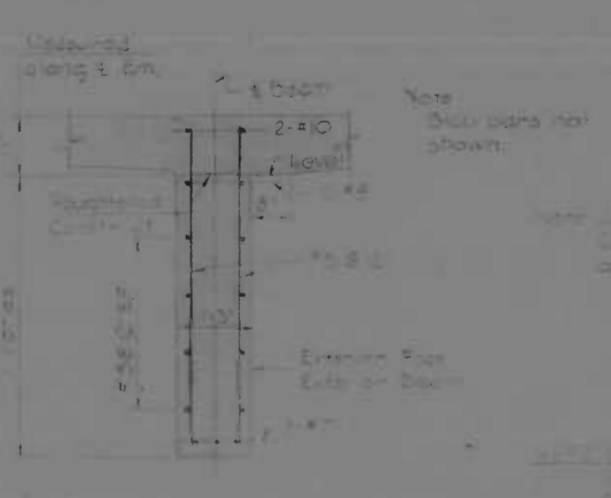
TYP ELEVATION-INTERIOR BEAM
Scale 1/2"=1'-0"



TYP ELEVATION-EXTERIOR BEAM
BEAMS NO. B 101, B 124, B 202, B 220, B 221, & B 224
Scale 1/2"=1'-0"



SECTION F-F
Scale 1/2"=1'-0"

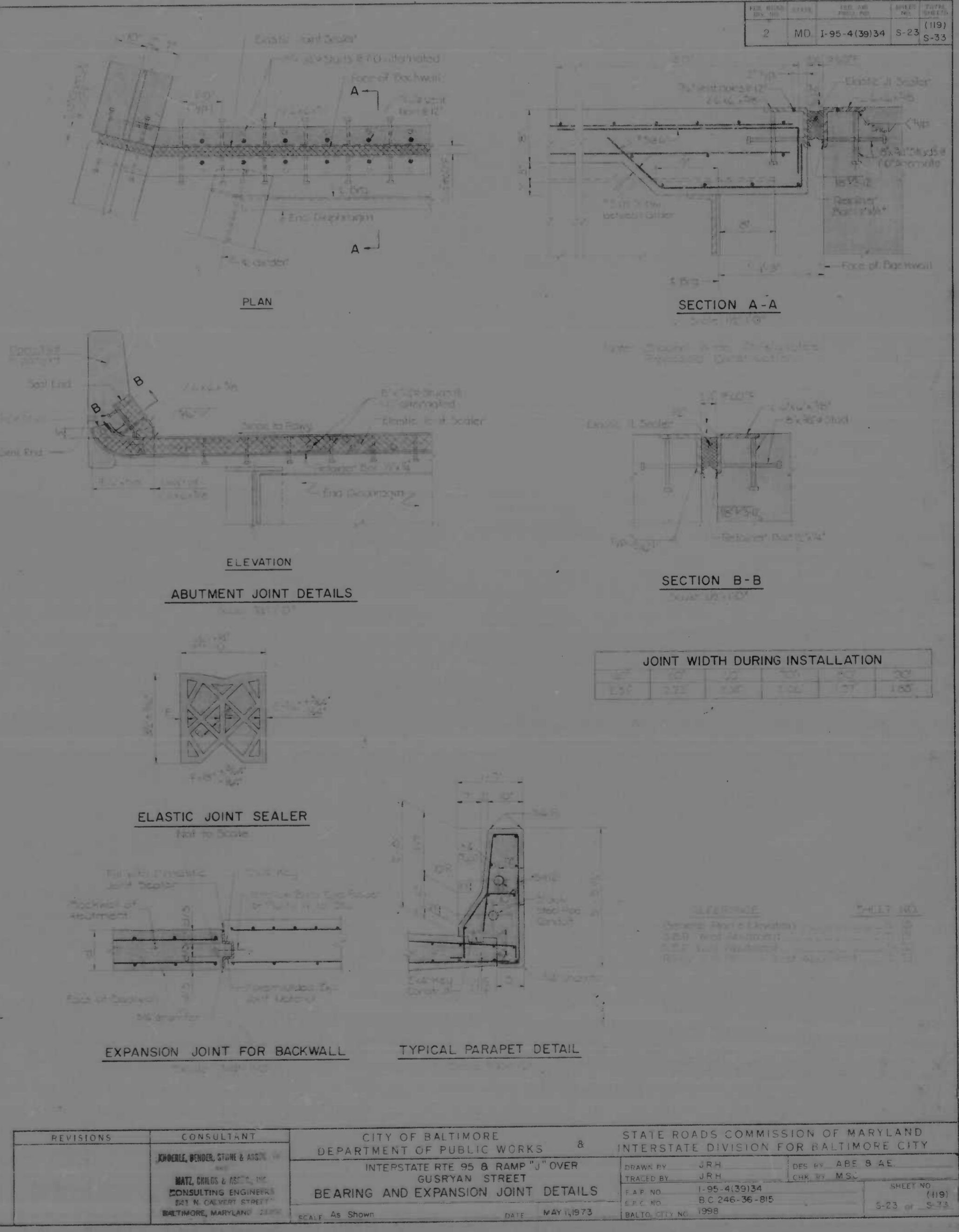
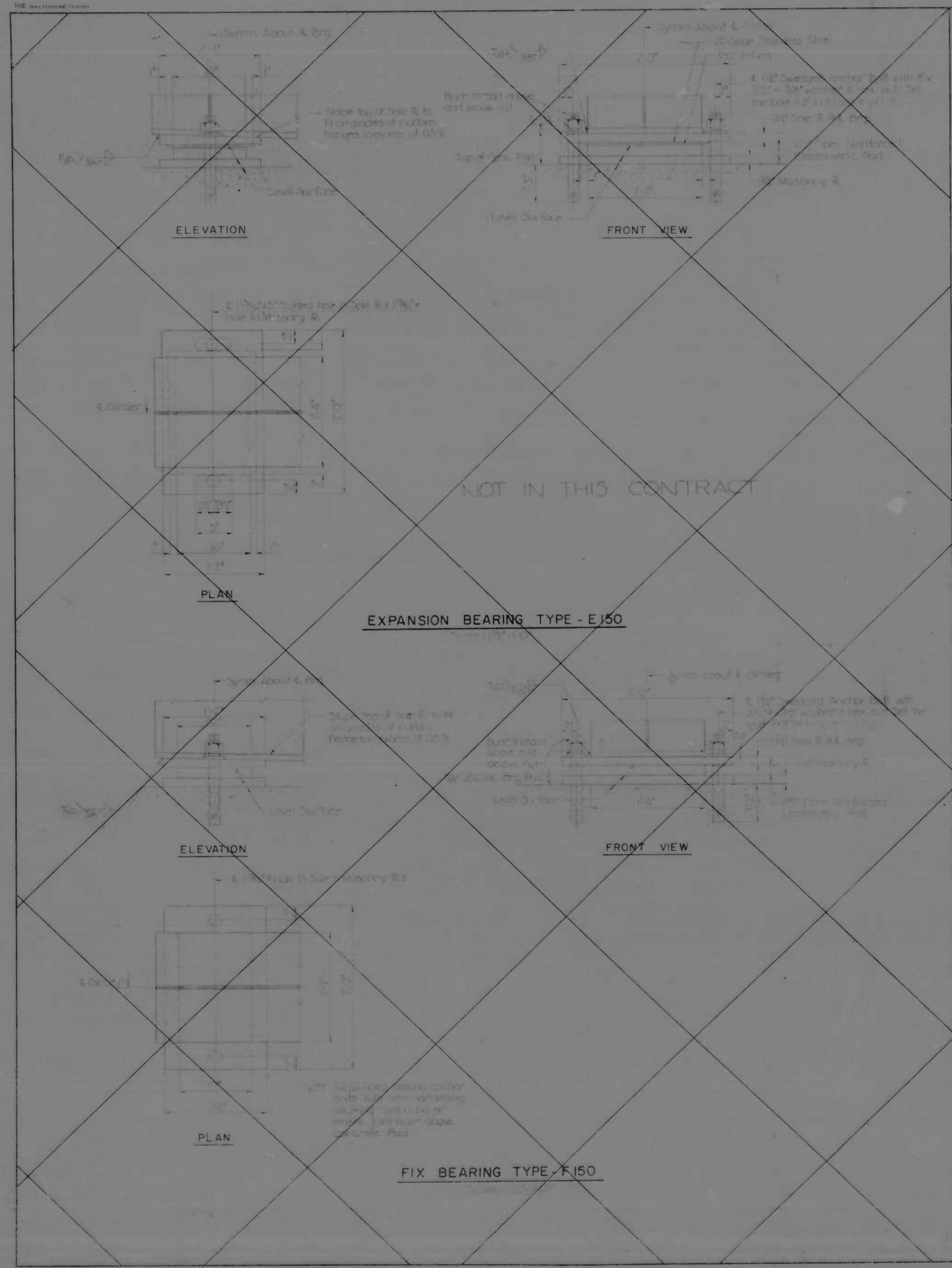


SECTION E-E
Scale 1/2"=1'-0"

Note: For reinforcing in abutment, see Sheet S-10.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KAPRICK, BENDER, STONE & ASSOC., INC. WATZ, CHURS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE RTE 95 & RAMP "J" OVER GUSRYAN STREET APPROACH SPAN DETAILS	DRAWN BY: PC TRACED BY: PD F.A.P. NO.: 1-95-4(39)34 S.R.C. NO.: BC 246-36-915 BALD. CITY NO.: 1998
			DES. BY: F.P. & A.B.E. CHK. BY: M.S.C. SHEET NO.: (119) S-22 OF S-33

THE BALTO. CITY	DATE	JOB NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	S-23	(119) S-33

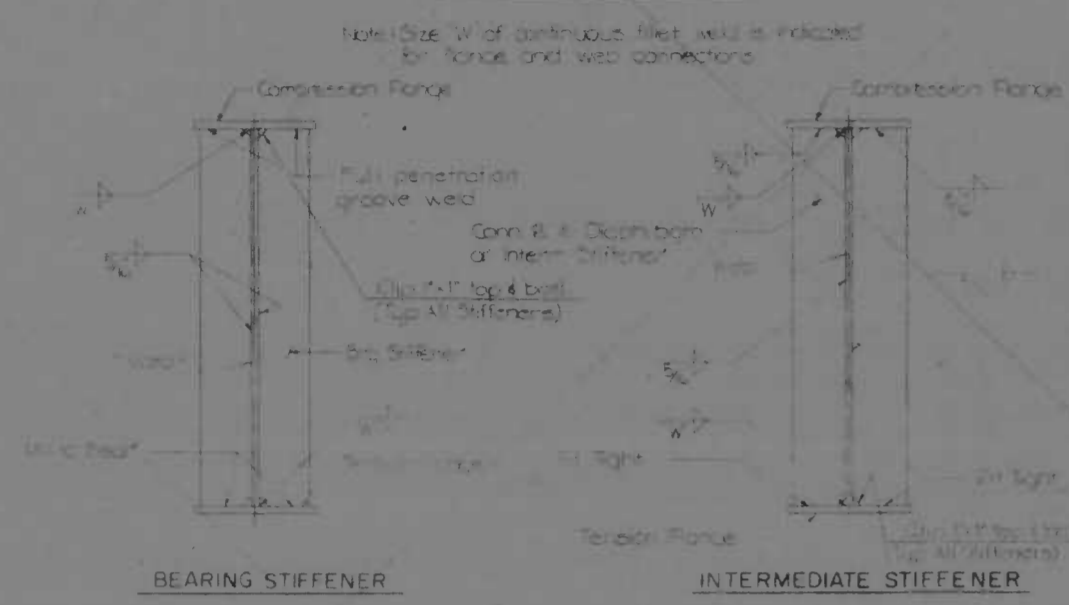


REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KORNBLI, BENDER, STONE & ASSOC. INC. MATEL CHILDS & ASSOC., INC. CONSULTING ENGINEERS 821 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE RTE 95 B RAMP "J" OVER GUSRYAN STREET BEARING AND EXPANSION JOINT DETAILS	DRAWN BY: JRH TRACED BY: JRH E.P.C. NO.: I-95-4(39)34 E.P.C. NO.: B.C. 246-36-815 BALTO. CITY NO.: 1998
		SCALE: As Shown	DATE: MAY 11, 1973
			DES. BY: ABE & AE CHK. BY: M.S.C. SHEET NO.: (119) S-23 of S-33

REV. NO.	DATE	BY	CHKD BY
2	MD 1-95-4(30)34	JRM	MSC

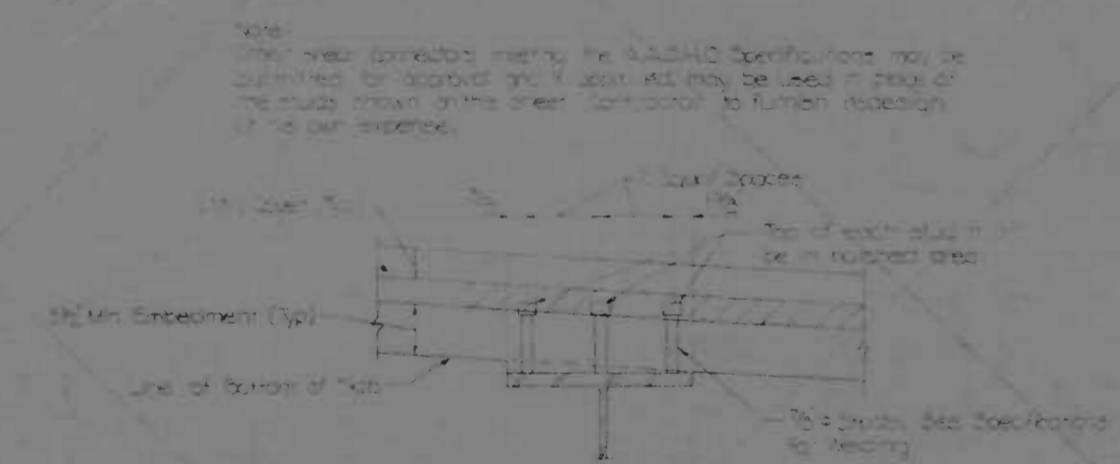
SIZE 'W' OF CONTINUOUS RILET WELD	WELD SIZE 'W'
THICKNESS	Weld Size 'W'
1/4" or under	3/16"
Over 1/4" to 3/8"	1/8"
Over 3/8"	1/4"

STRUCTURE	THICKNESS
1.057 (Ramp)	1"
Over 1.057 (Ramp)	1 1/2"
1.25 (Over-Tunnels)	1 1/2"
Over 1.25 (Ramp)	2"

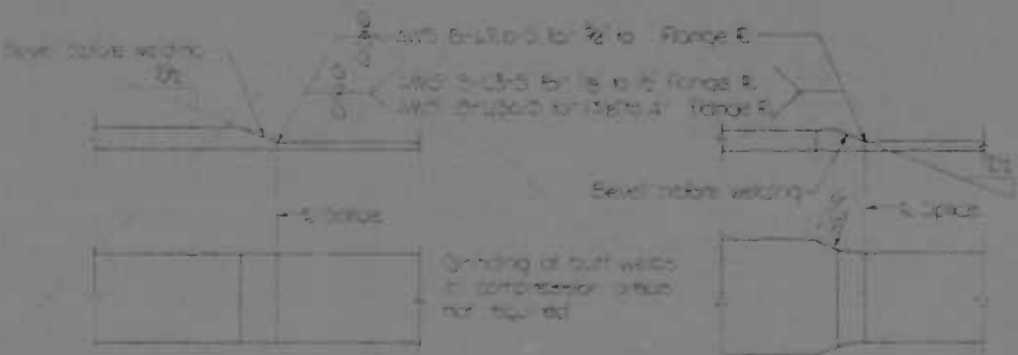


WELD DETAIL

NOT IN THIS CONTRACT

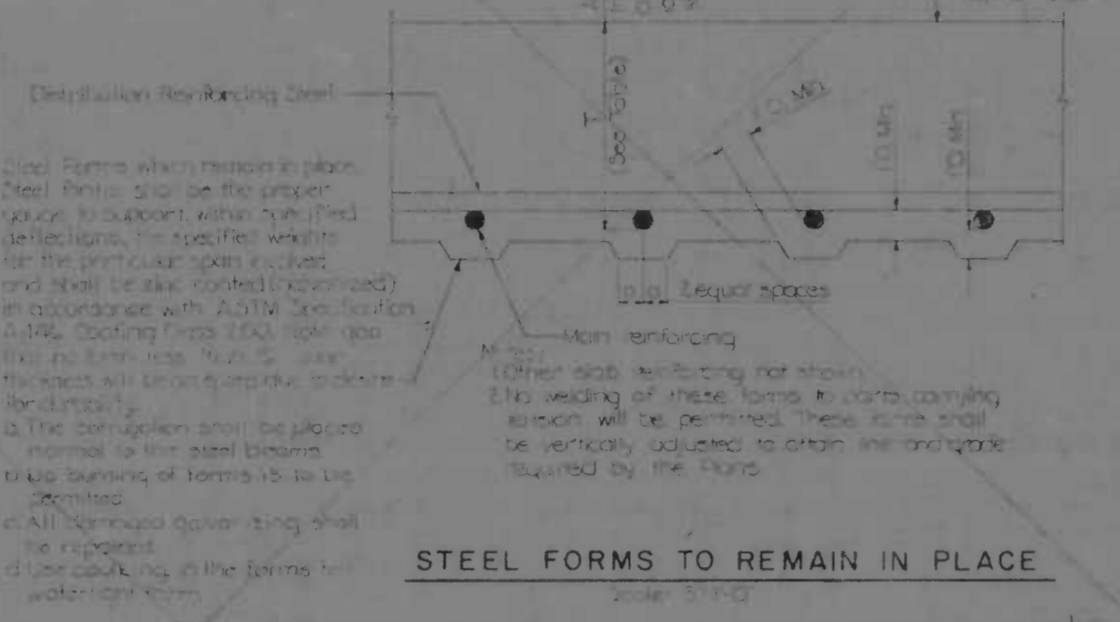


SHEAR CONNECTOR DETAIL

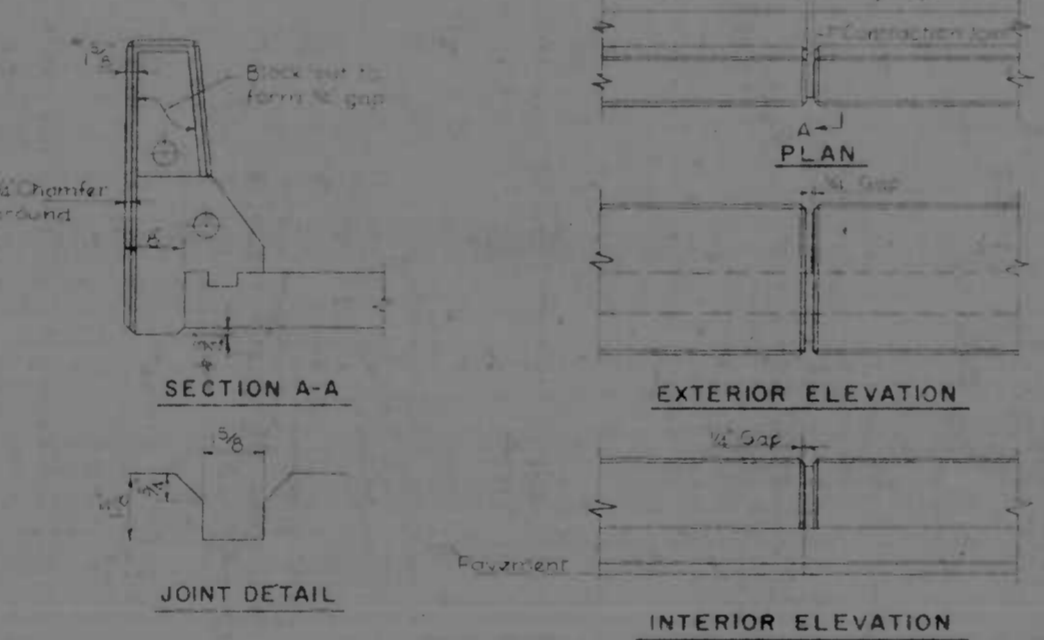


FLANGE SPLICE DETAILS

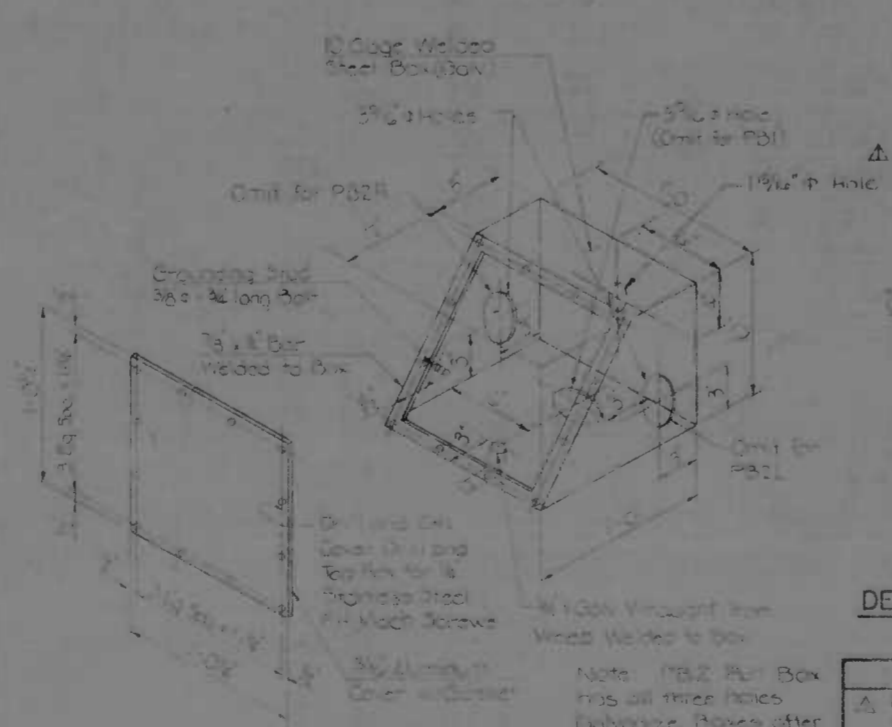
Note: All welds shall be governed by thickness of thinnest plate or steel in joint. All welds shall be made in accordance with AWS D1.1 or AWS D1.5 as applicable. All welds shall be made in accordance with AWS D1.1 or AWS D1.5 as applicable.



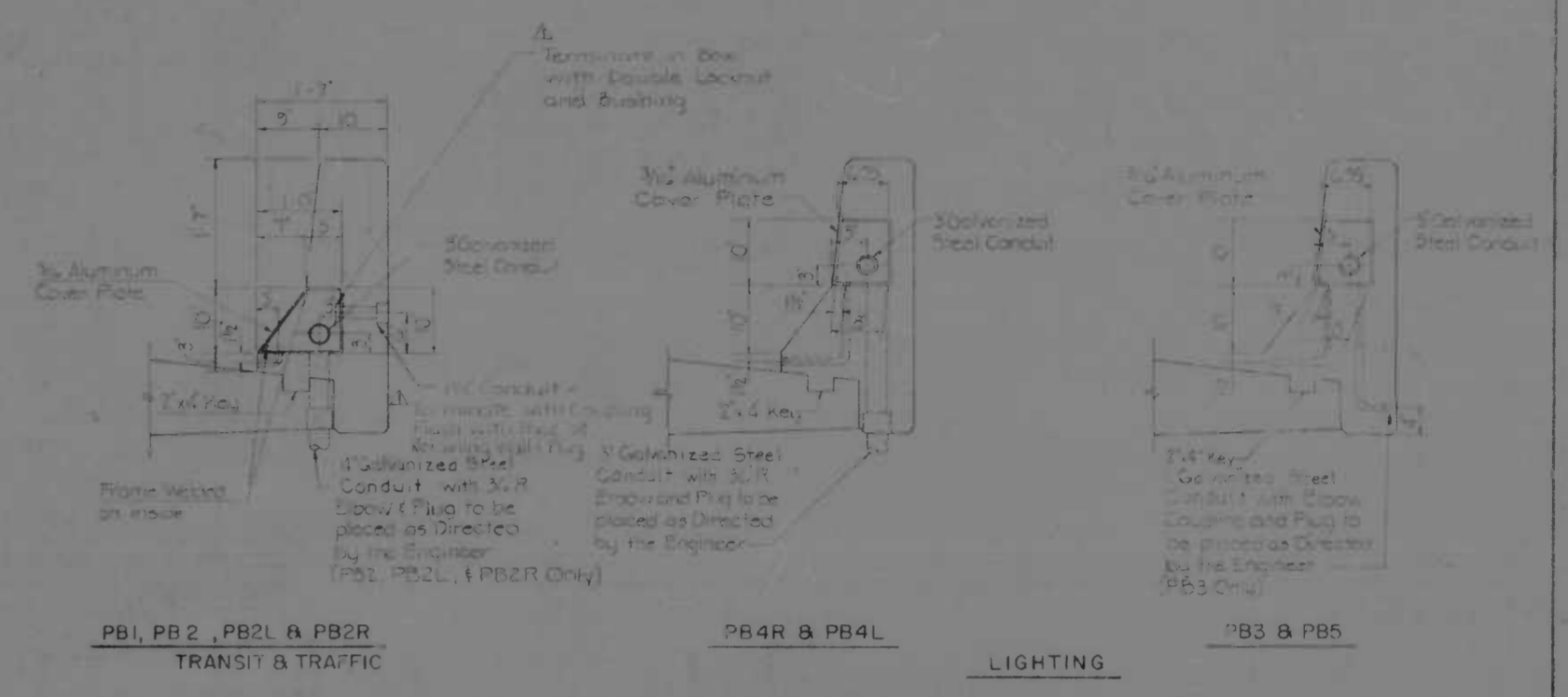
STEEL FORMS TO REMAIN IN PLACE



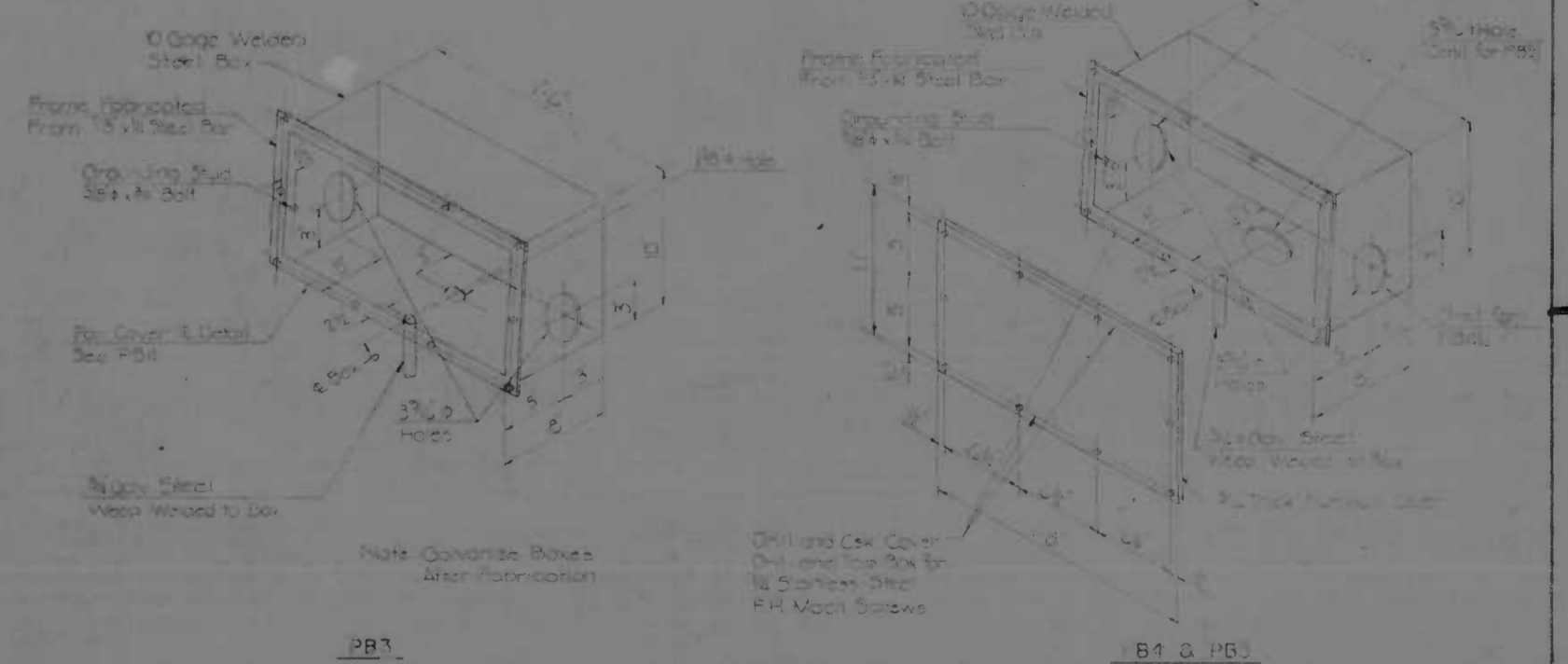
PARAPET JOINT DETAILS



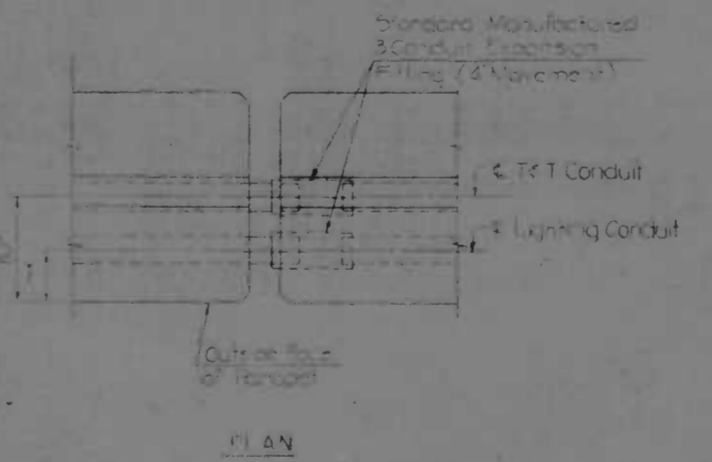
TYPICAL PULL BOX DETAIL FOR TRANSIT AND TRAFFIC
A. PB1, PB2, PB2L & PB2R
Scale: 1/4"=1'-0"



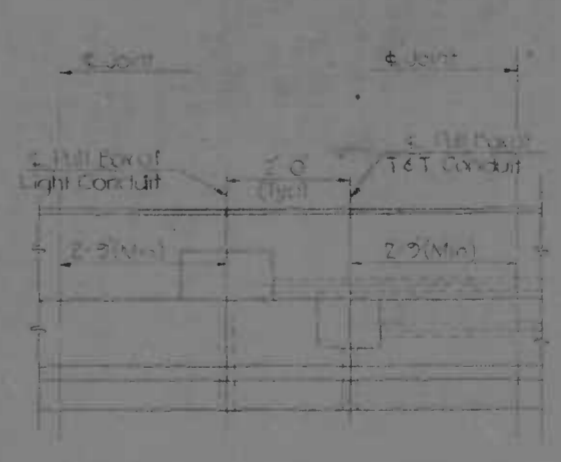
PULL BOX INSTALLATION IN PARAPET



TYPICAL PULL BOX DETAILS FOR LIGHTING



DETAIL OF CONDUITS AT EXPANSION JOINT

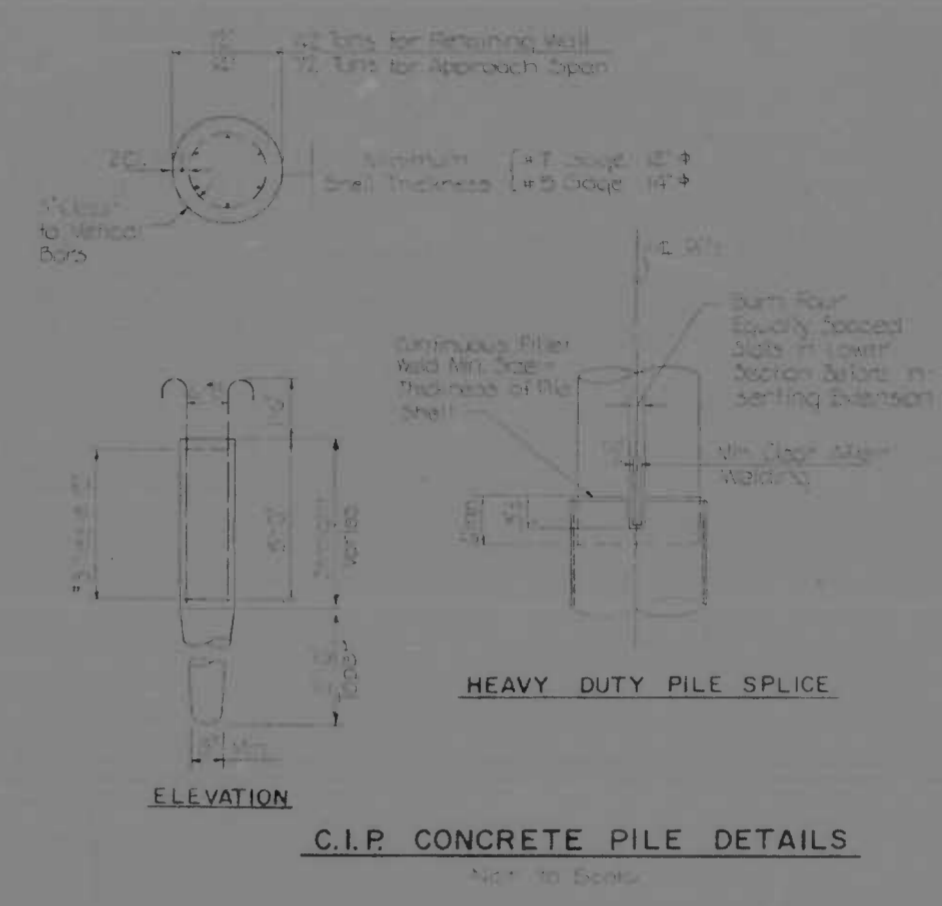
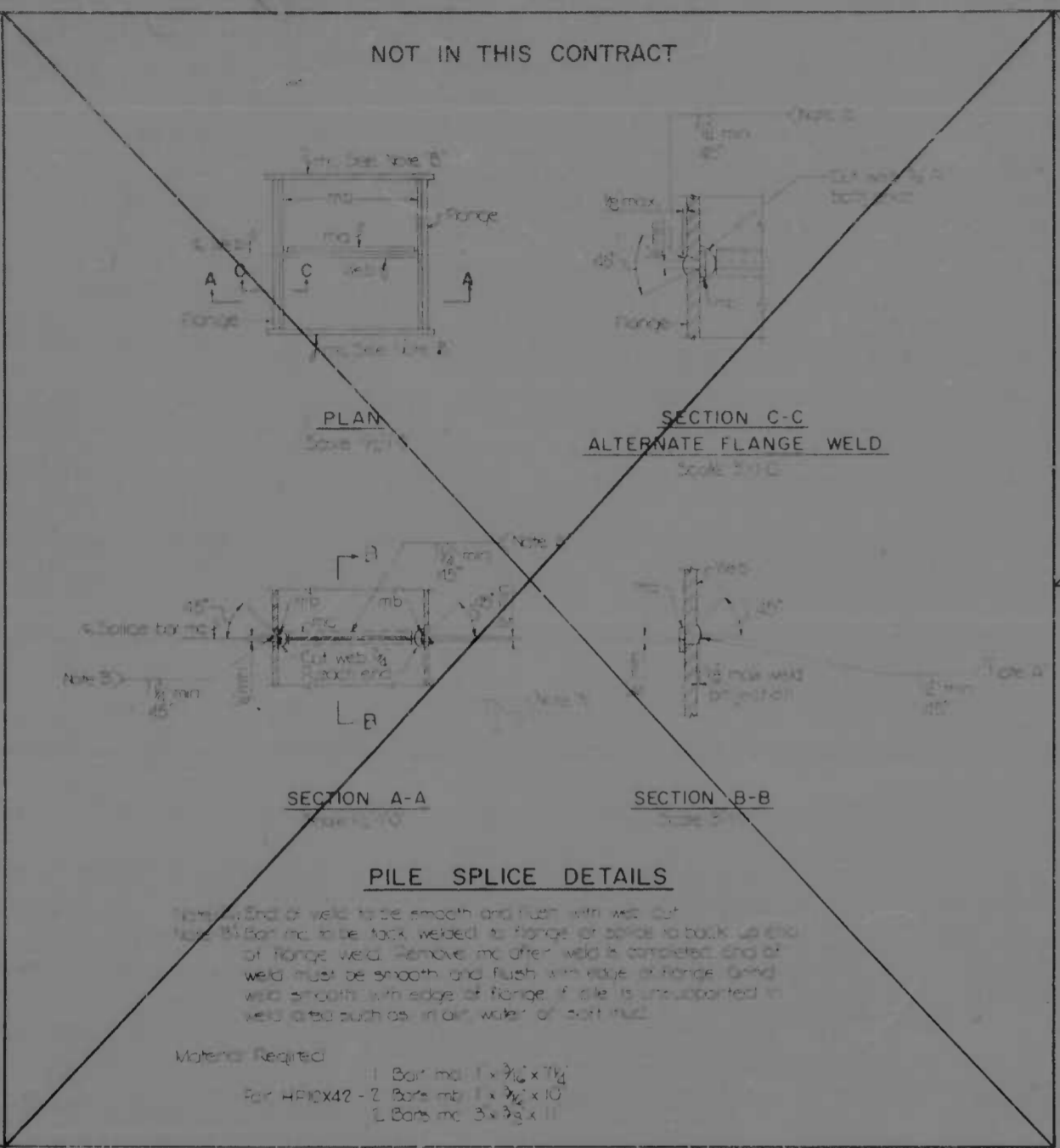


ELEVATION-PARAPET PULL BOX

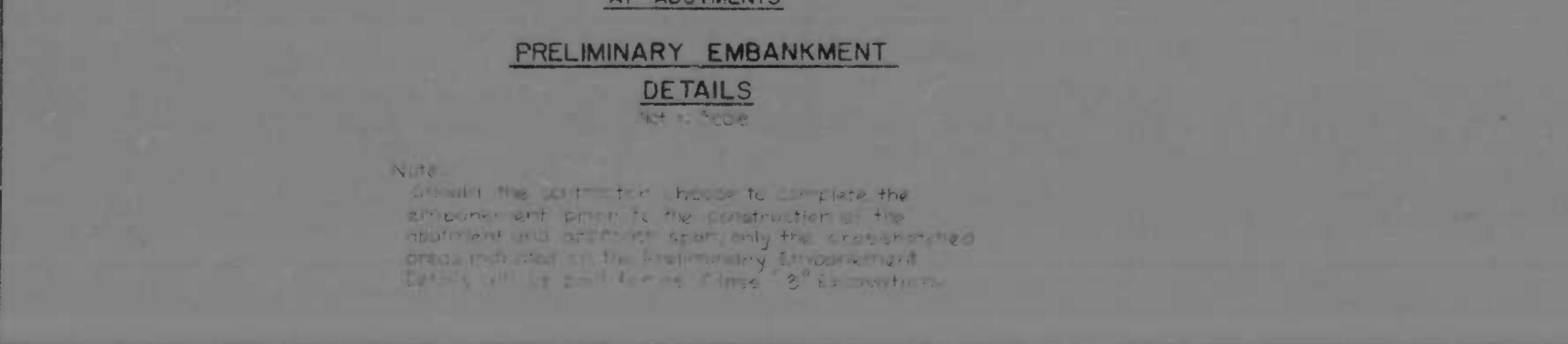
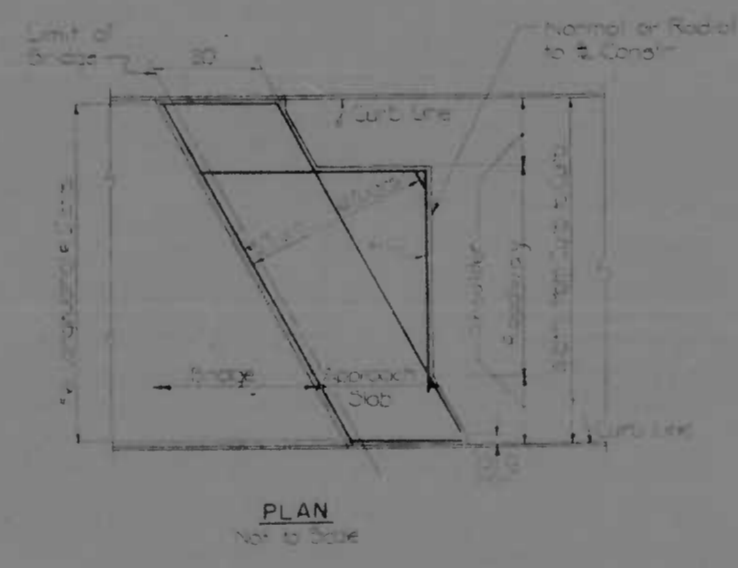
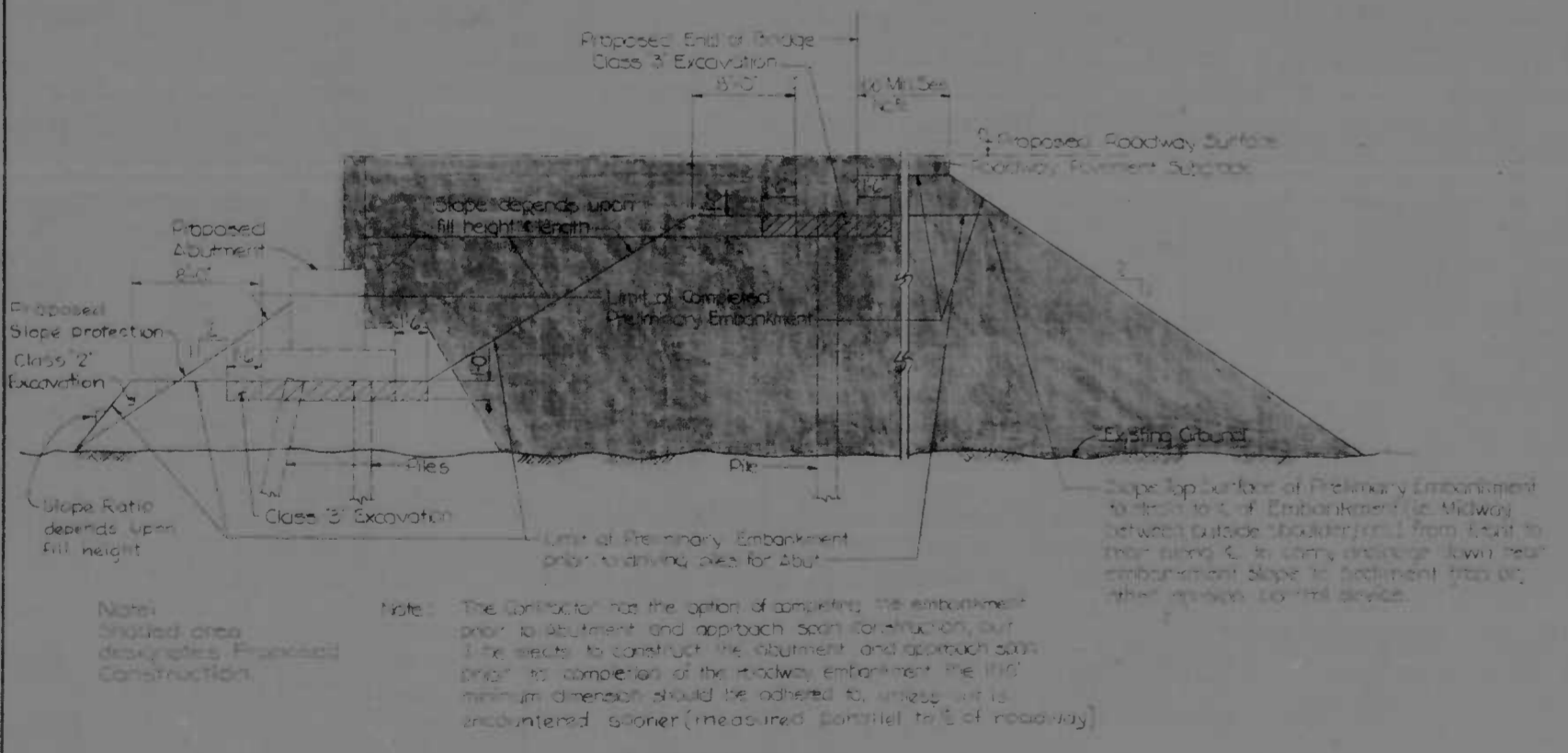
Notes:
Minor deviation from box dimensions will be allowed if construction details are required. But only after approval by the Interstate Division, Fair Baltimore City.
The box cover is to be of aluminum alloy with pebble or shot finish. The face of the cover must be flush with the face of concrete. A 1/2" rubber gasket is to be fitted between the cover and box flanges. Drill and tap holes in box flanges and gasket cover in box with 1/2" dia. stainless steel countersunk Philips head screws. All box shall be hot-dipped galvanized after fabrication.
All box dimensions are inside dimensions.
For Pull Box Locations see Sheets 201, 202, 203 & 204.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. Revision 1-17-74 Detail	KROEHL, HENNER, STONE & ASSOC., INC. AND MATZ, CHUBB & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE RTE 95 & RAMP "J" OVER GUSRYAN STREET SUPERSTRUCTURE DETAILS	DRAWN BY: JRM, MSE CHECKED BY: MSC DATE: MAY 14, 1973

REV. NO.	DATE	BY	CHK.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(3)34	5-25	(13)	S-33

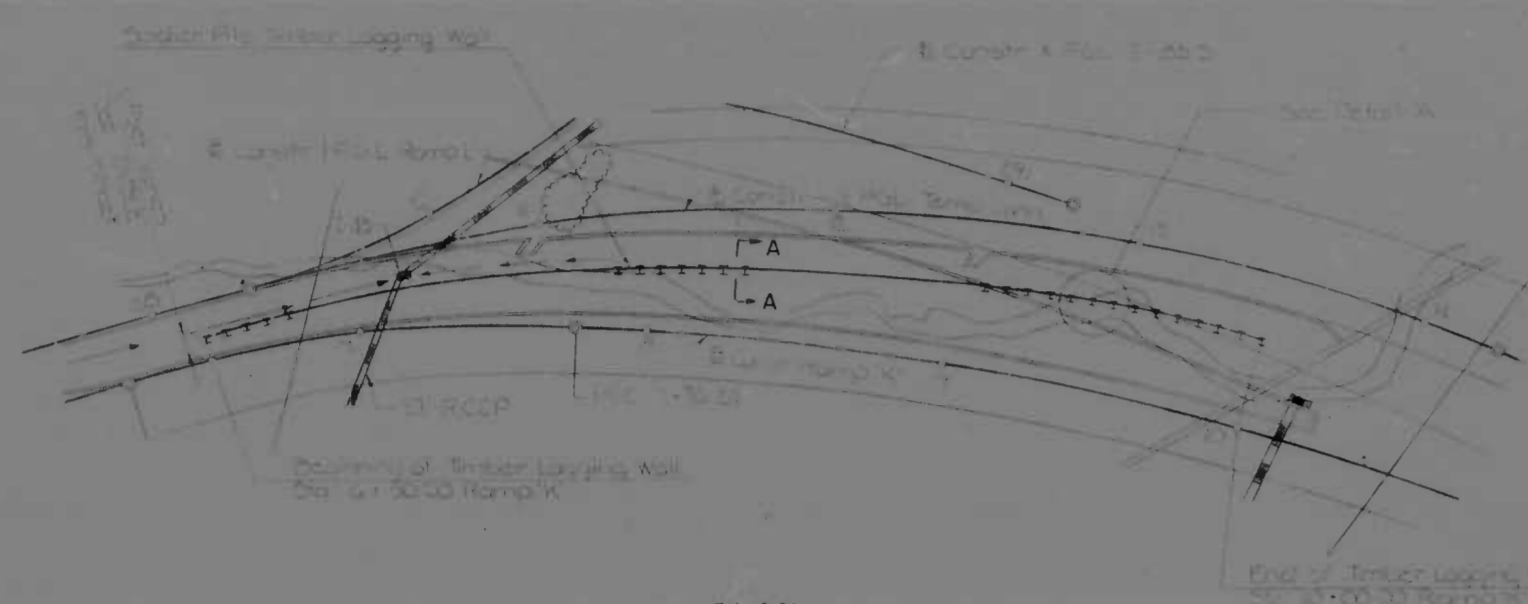


NOTES: All piles shall be checked for settlement. Concrete piles shall be minimum 12" dia. unless otherwise noted.

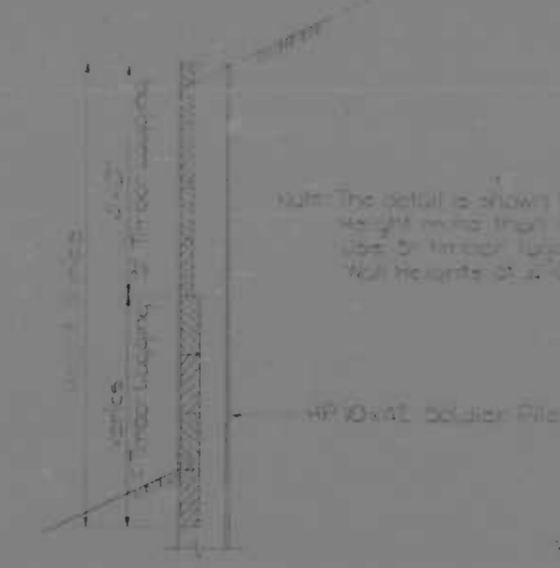


REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOERLE, BENDER, STONE & ASSOC., INC. AND WATZ, CUBBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE RTE 95 & RAMP "J" OVER GUSRYAN STREET SUBSTRUCTURE DETAILS	DRAWN BY: L.M.W. DES. BY: M.S.C. TRACED BY: L.M.W. CHK. BY: T.F.M. F.A.P. NO. I-95-4(3)34 SHEET NO. (13) S.R.C. NO. BC 246-36-81 BALTO. CITY NO. 1988 5-25 S-33
		SCALE: AS SHOWN	DATE: MAY 11, 1973

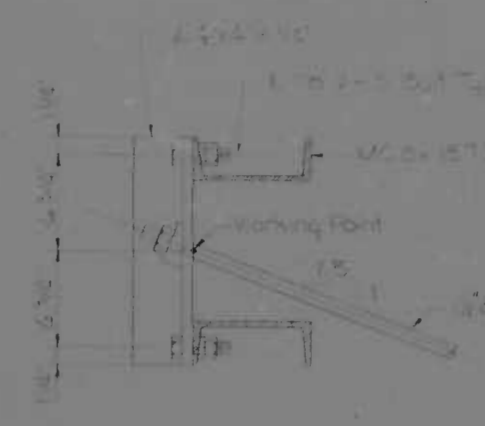
FED. ROAD DIST. NO.	STATE	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	5-26	(119)
				5-33



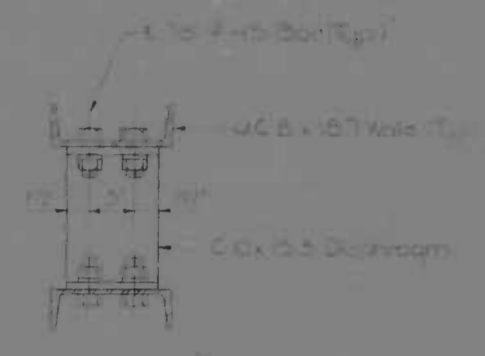
PLAN
Scale: 1" = 40'



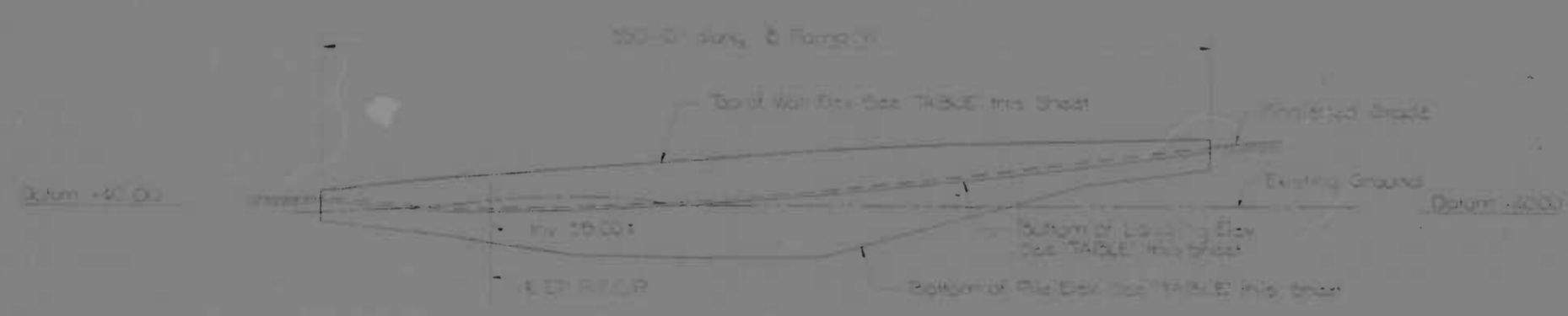
TIMBER LAGGING DETAIL
Scale: 1" = 1'-0"



SECTION B-B
Scale: 1" = 1'-0"



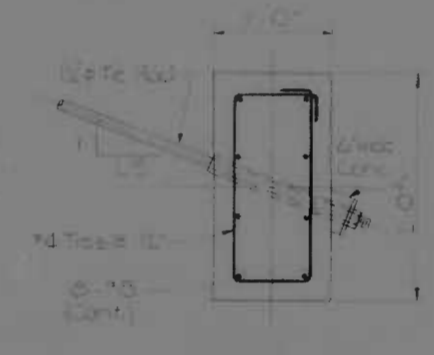
DIAPHRAGM CONNECTION DETAIL
Scale: 1/2" = 1'-0"



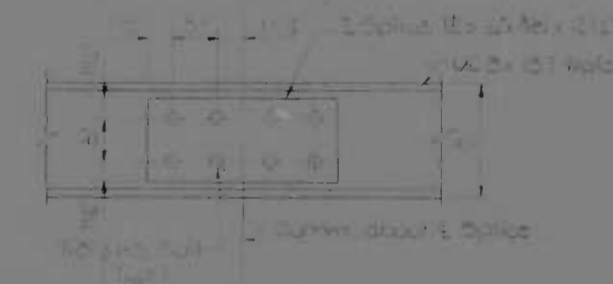
ELEVATION
Scale: 1" = 10'-0" Vert
1" = 40'-0" Horiz

SOLDIER PILE TIMBER LAGGING WALL TABLE

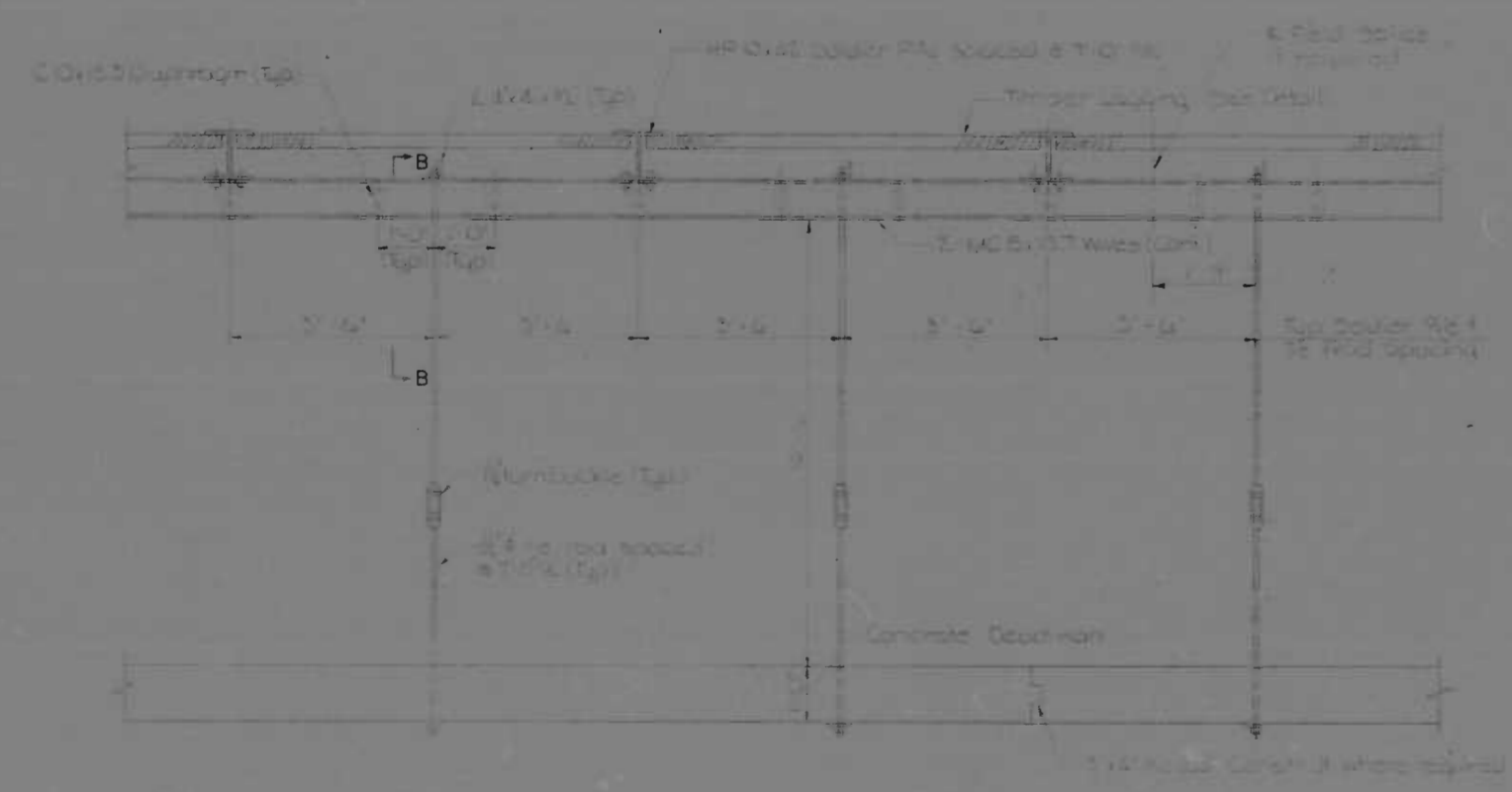
STATION	TOP OF WALL ELEV.	BOTTOM OF LAGGING EL.	BOTTOM OF PILE ELEV.
1+00	45.50	41.00	37.00
1+10	46.50	42.00	38.00
1+20	47.50	43.00	39.00
1+30	48.50	44.00	40.00
1+40	49.50	45.00	41.00
1+50	50.50	46.00	42.00
1+60	51.50	47.00	43.00
1+70	52.50	48.00	44.00
1+80	53.50	49.00	45.00
1+90	54.50	50.00	46.00



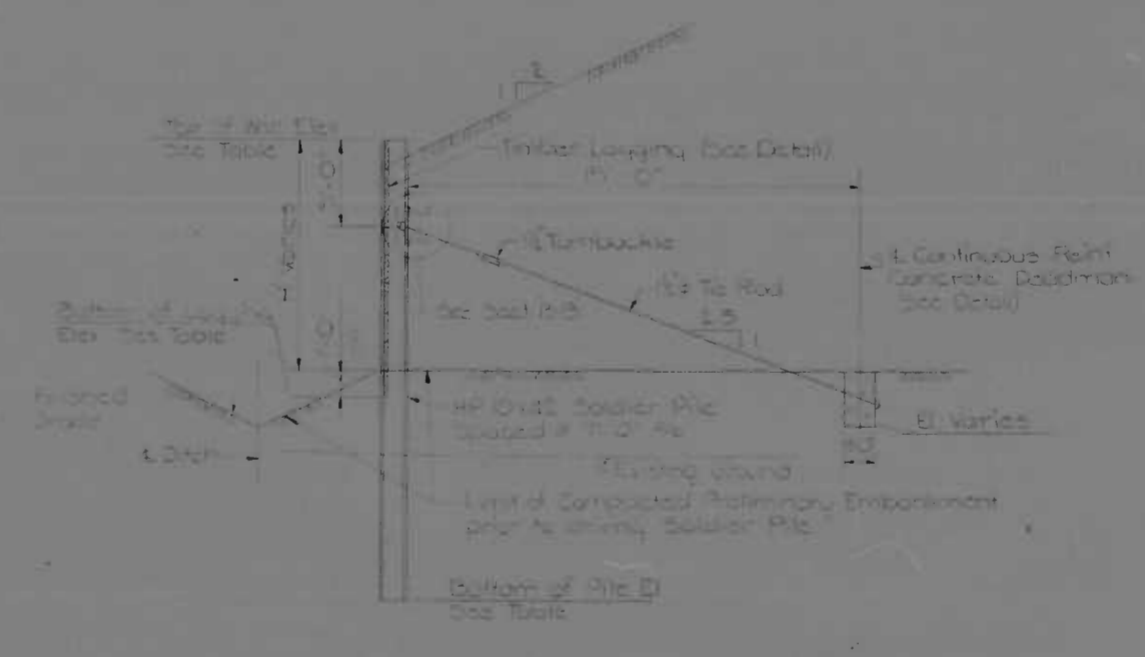
DEADMAN DETAIL
Scale: 1" = 1'-0"



WALE FIELD SPLICE DETAIL
Scale: 1" = 1'-0"



DETAIL 'A'
Scale: 1" = 1'-0"

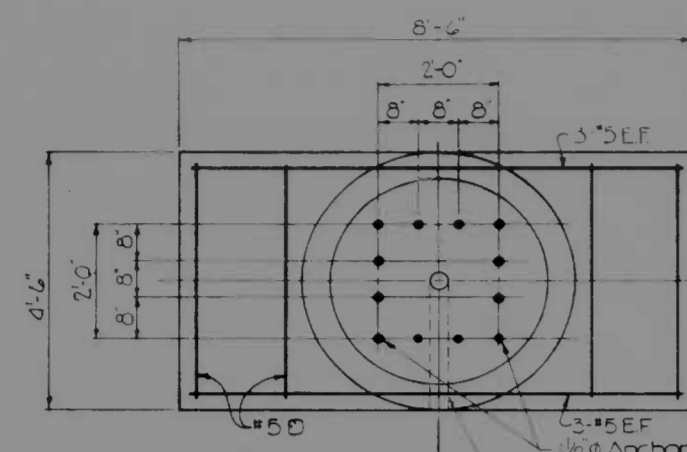


SECTION A-A
Scale: 1" = 1'-0"

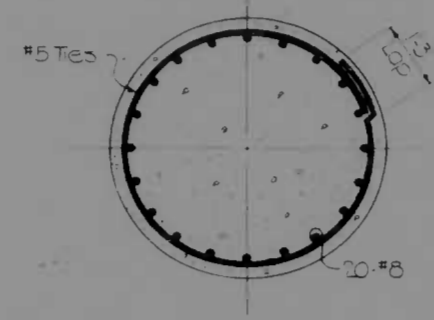
- GENERAL NOTES:
1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE AS SHOWN ON THESE DRAWINGS UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 SOLDIER PILE, TIMBER LAGGING WALL	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		SCALE: As Shown	DATE: MAY 11, 1973
		DRAWN BY: E.W.	DES. BY: M.S.C.
		TRACED BY: E.W.	CHK. BY: F.F.M.
		F.A.P. NO.: I-95-4(39)34	SHEET NO.: (119)
		S.R.C. NO.: RC 246-36-815	5-26 of 5-23
		BALTO. CITY NO.: 1998	

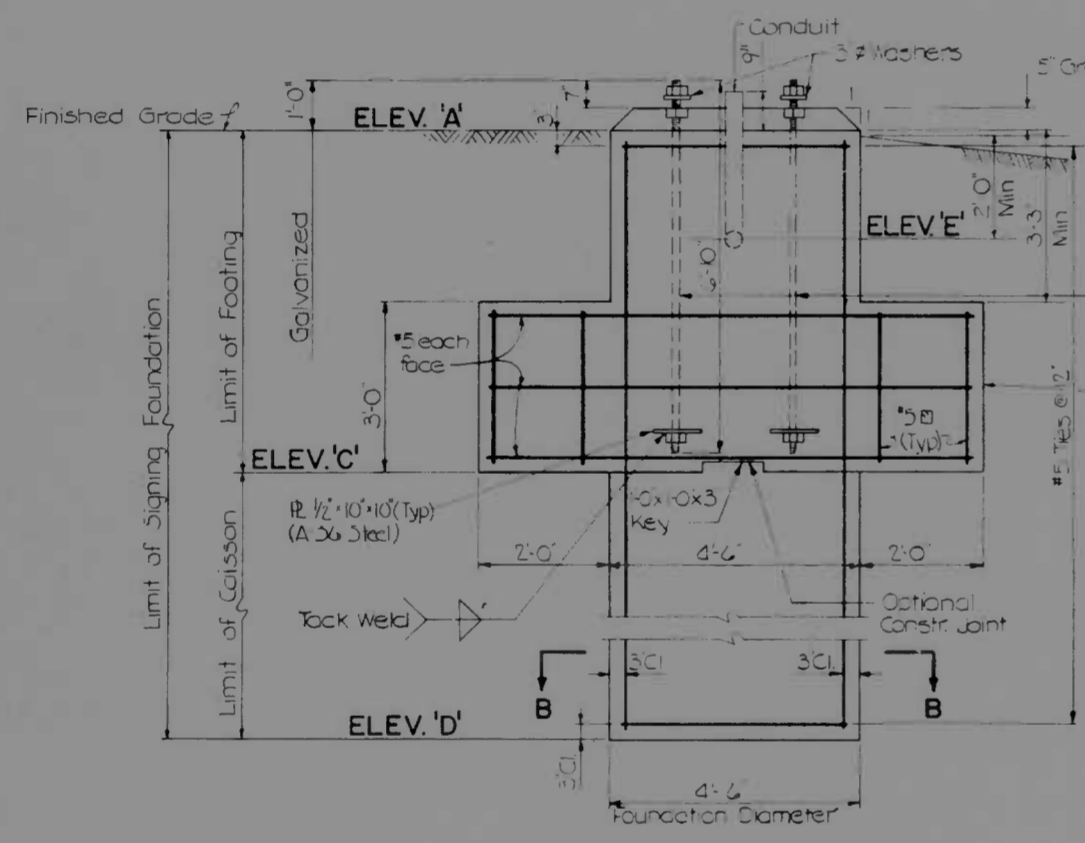
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(39)34	S-27	(119) S-33



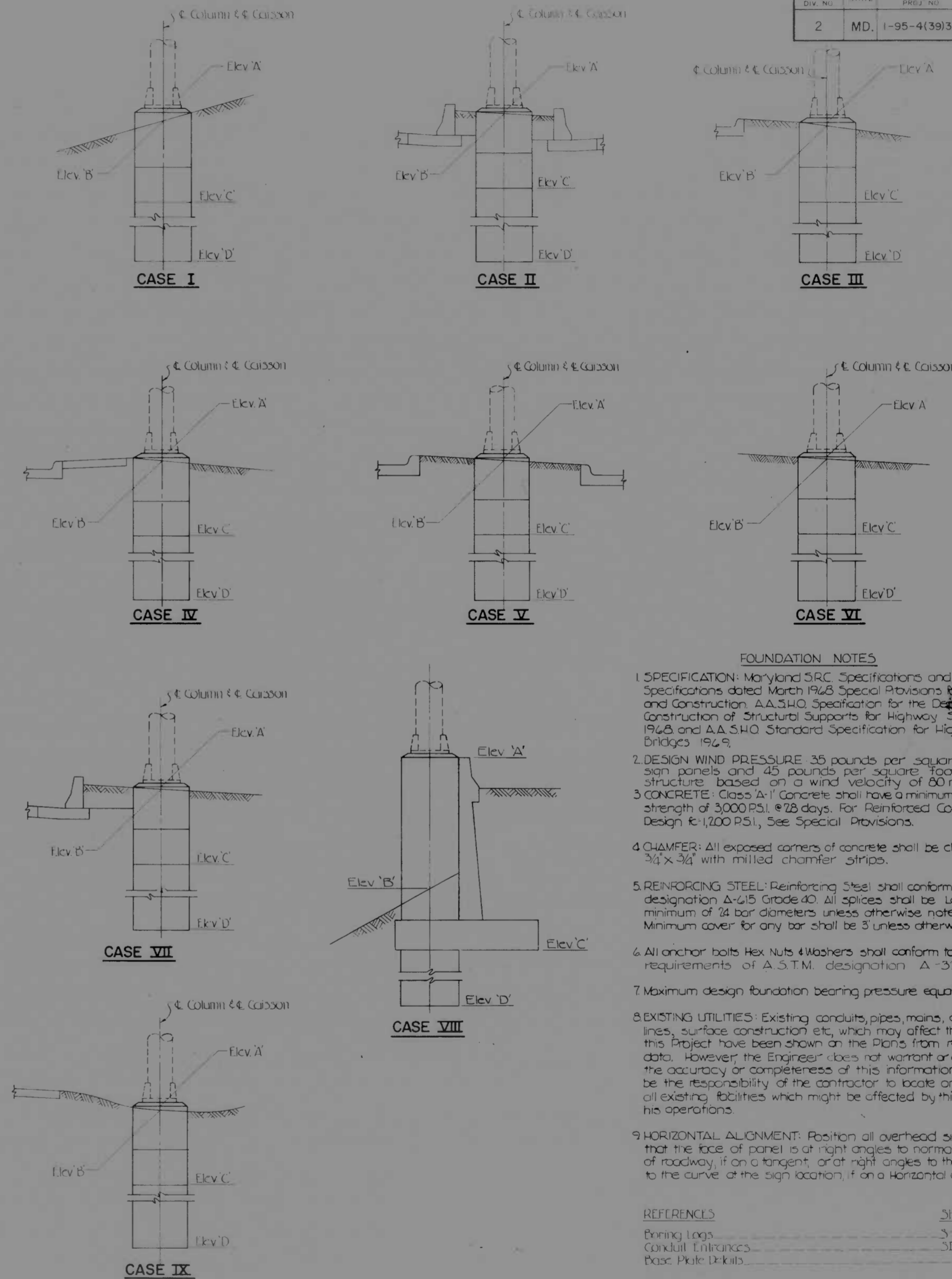
ANCHOR BOLT LOCATION
Scale 1/2"=1'-0"



SECTION B-B
Scale 1/2"=1'-0"



SIGN FOUNDATION
Scale 1/2"=1'-0"



FOUNDATION NOTES

1. SPECIFICATION: Maryland SRC Specifications and errata to Specifications dated March 1968 Special Provisions for Materials and Construction. A.A.S.H.O. Specification for the Design & Construction of Structural Supports for Highway Signs 1968 and A.A.S.H.O. Standard Specification for Highway Bridges 1969.
2. DESIGN WIND PRESSURE: 35 pounds per square foot for sign panels and 45 pounds per square foot for structure based on a wind velocity of 80 m.p.h.
3. CONCRETE: Class A-1 concrete shall have a minimum compressive strength of 3,000 P.S.I. 28 days. For Reinforced Concrete Design 6-1,200 P.S.I. See Special Provisions.
4. CHAMFER: All exposed corners of concrete shall be chamfered 3/4" x 3/4" with milled chamfer strips.
5. REINFORCING STEEL: Reinforcing Steel shall conform to ASTM designation A-615 Grade 40. All splices shall be lapped a minimum of 34 bar diameters unless otherwise noted. Minimum cover for any bar shall be 3" unless otherwise noted.
6. All anchor bolts Hex Nuts & Washers shall conform to the requirements of A.S.T.M. designation A-325.
7. Maximum design foundation bearing pressure equals 3,000 P.S.F.
8. EXISTING UTILITIES: Existing conduits, pipes, mains, overhead lines, surface construction etc. which may affect the work of this Project have been shown on the Plans from recorded data. However, the Engineer does not warrant or guarantee the accuracy or completeness of this information. It shall be the responsibility of the contractor to locate and protect all existing facilities which might be affected by this work or his operations.
9. HORIZONTAL ALIGNMENT: Position all overhead signs so that the face of panel is at right angles to normal edge of roadway, if on a tangent; or at right angles to the tangent to the curve at the sign location, if on a horizontal curve.

REFERENCES

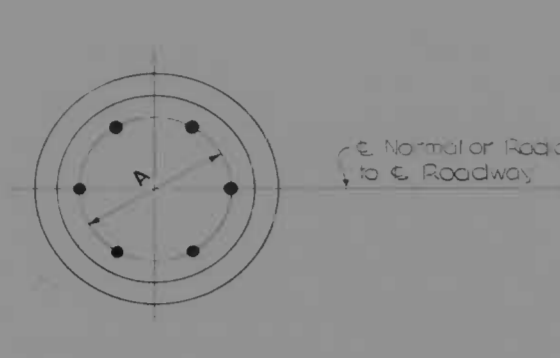
Boring Logs	S-15 thru S-16
Conduit Entrances	SI-3 thru SI-5
Base Plate Details	S-32

SIGN NO.	LOCATION		FOUNDATION DATA					CASE	TYPE OF STRUCTURE	BORING NO.
	STATION	OFFSET TO C. FOUNDATION	ELEV. 'A'	ELEV. 'B'	ELEV. 'C'	ELEV. 'D'	ELEV. 'E'			
4	116+50	87' Lt. Constr. O'Donnell St. cut-off	46.55	46.5	40.1	7.60	44.5	III	Canthiever	B-12
11	17+10	36.65' Lt. Constr. O'Donnell St.	47.45	47.4	36.7	77.5	40.4	III	Canthiever	B-4
16	295+93	93.25' Lt. Constr. I-95	69.81	69.7	45.4	270	67.6	VII	Canthiever	B-46
17	300+25	95.75' Lt. Constr. I-95	71.52	71.2	70.9	470	—	VII	Bridge	B-19
17	300+25	Constr. I-95	74.04	74.7	67.6	460	72.0	II	Bridge	B-18
18	312+75	80.25' Lt. Constr. I-95	77.05	83.4	81.3	450	—	VIII	Bridge	B-17
18	312+75	Constr. I-95	76.56	76.1	87.7	47.0	74.1	II	Bridge	B-16
18	312+75	114.25' Rt. Constr. I-95	95.07	75.1	89.6	450	—	VII	Bridge	B-15
20	19+00	36.65' Lt. Constr. K&K St.	76.56	46.5	40.1	12.5	44.5	IV	Canthiever	B-56
23	7+22	16.5' Rt. Constr. Roma Dr.	74.55	74.7	67.9	270	72.1	VII	Canthiever	B-15
7	0+10	42' Rt. Constr. O'Donnell St.	55.50	55.5	50.2	34.5	54.5	V	Canthiever	B-27

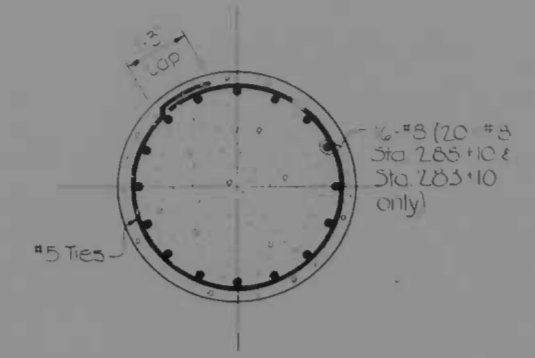
Note: Foundations for Sign Nos. 19, 21, 22, are Existing as shown on Dwg. No. 3-31

REVISIONS Sign #7 Added Sign #11 Revised REVISIONS	CONSULTANT KENDRICK BENDER 1978 & 1979 8072 20th A. AVE. RD. CONROBERT ENGINEERS 341 R. GARDNER DRIVE MIDDLEBURY, Vt. 05750	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE ROUTE 95 SIGNING FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET SIGNING FOUNDATION DETAILS		DRAWN BY: A.J.M. TRACED BY: A.J.M. F.A.P. NO. 1-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998	DES. BY: C.D.P. CHK. BY: F.F.M. SHEET NO. (119) S-27 OF S-33
		SCALE: AS SHOWN DATE: MAY 11, 1973			

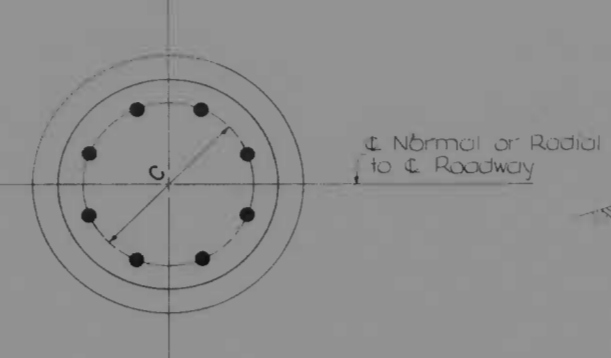
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(39)34	S-28	(119) S-33



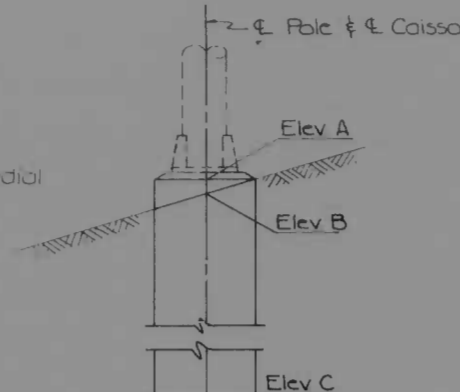
ANCHOR BOLT LOCATION
Scale: 1/2"=1'-0"



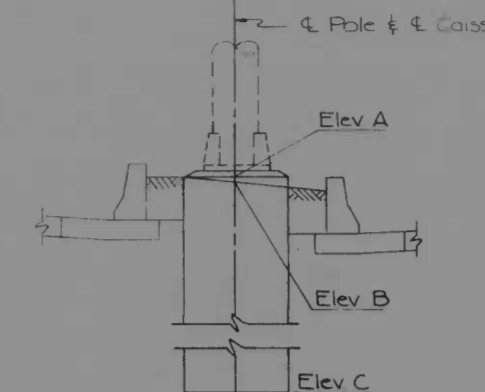
SECTION A-A
Scale: 1/2"=1'-0"



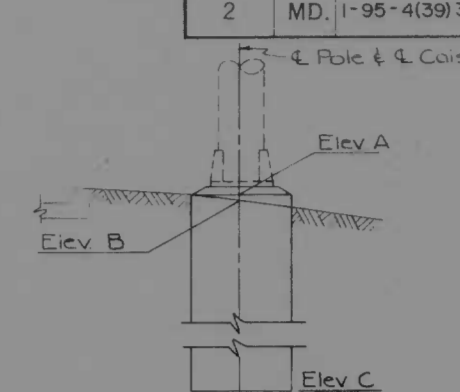
ANCHOR BOLT LOCATION
AT STA. 283+10 & STA. 288+10 ONLY
Scale: 1/2"=1'-0"



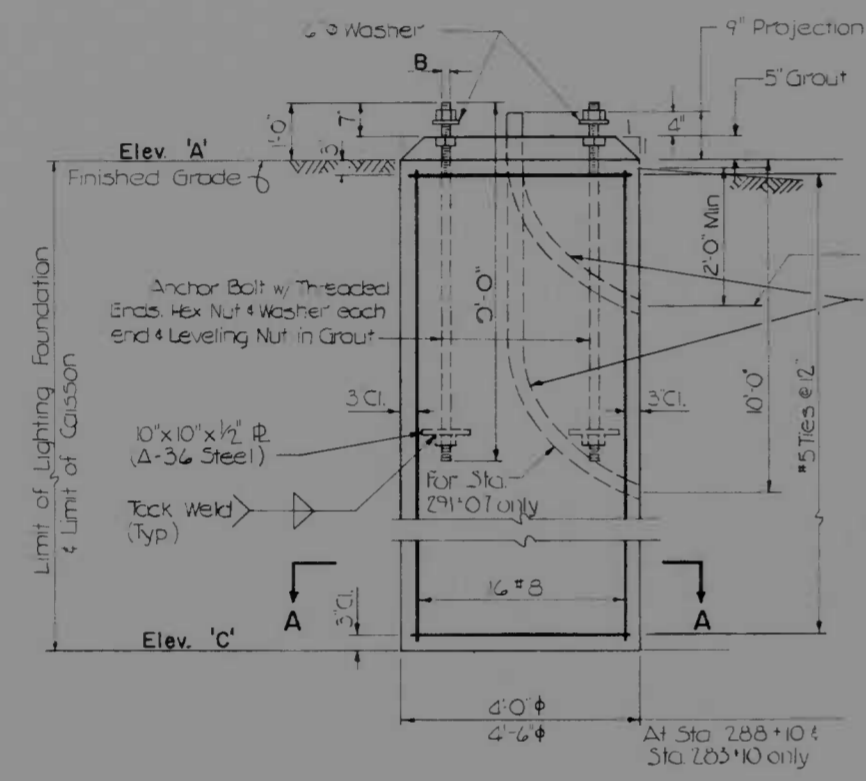
CASE I



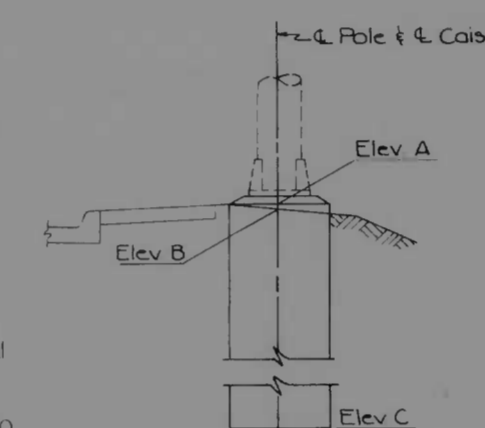
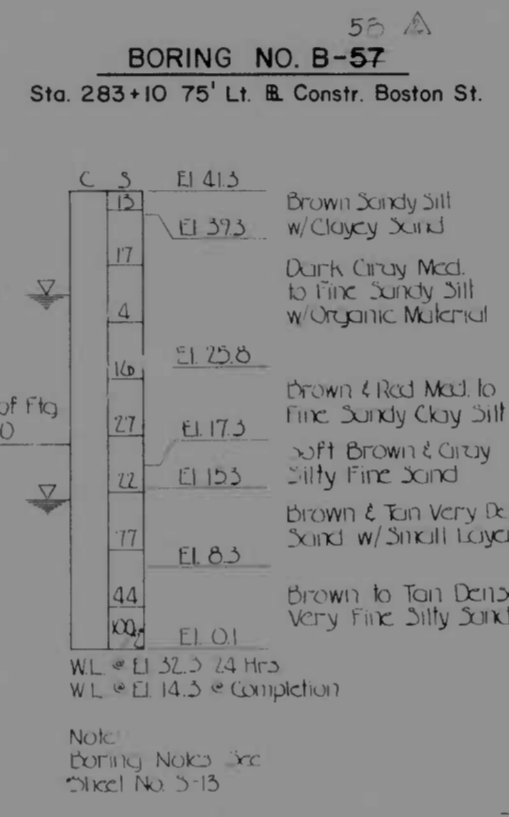
CASE II



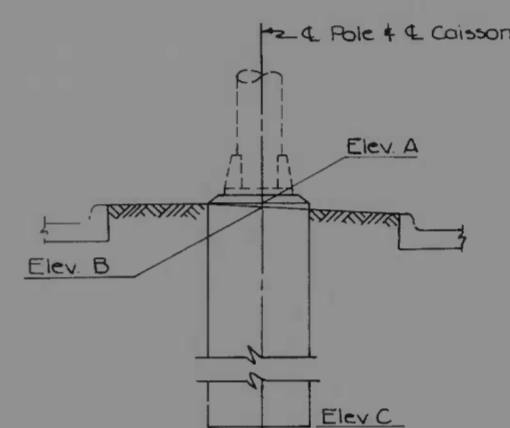
CASE III



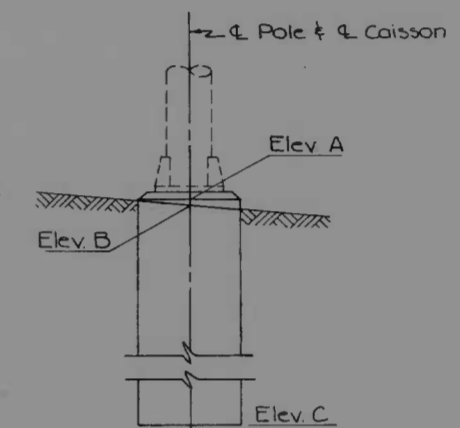
LIGHT POLE FOUNDATION
Scale: 1/2"=1'-0"



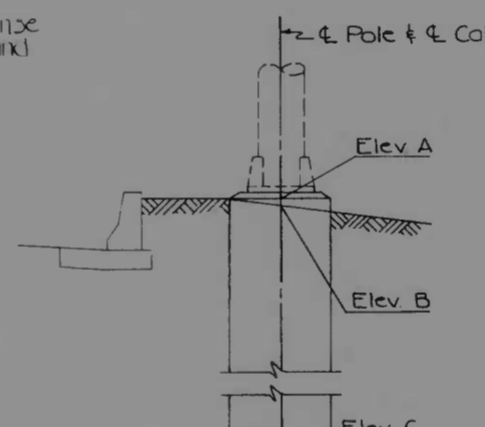
CASE IV



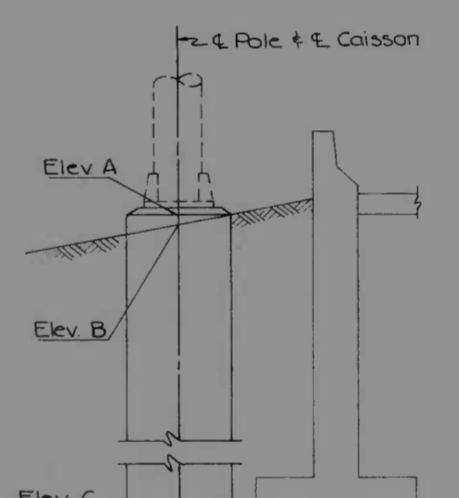
CASE V



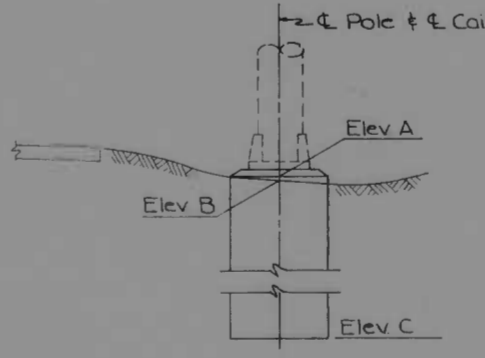
CASE VI



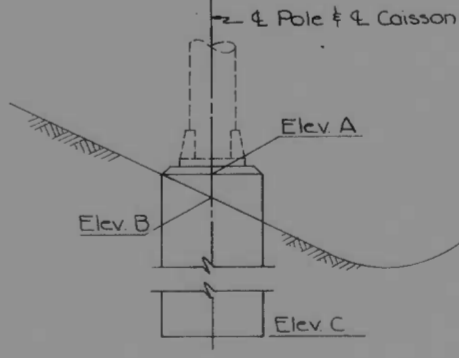
CASE VII



CASE VIII



CASE IX



CASE X

- GENERAL NOTES**
- SPECIFICATION: Maryland S.R.C. Specifications and amendments to Specifications dated March 1948. Special Provisions for Materials and Construction. A.A.S.H.O. Specification for the Design & Construction of Structural Supports for Highway Signs, 1948 and A.A.S.H.O. Standard Specification for Highway Bridges 1949.
 - DESIGN WIND PRESSURE: 35 pounds per square foot for sign panels and 45 pounds per square foot for structure based on a velocity of 80 m.p.h.
 - CONCRETE: Class A-1 Concrete shall have a minimum compressive strength of 3000 P.S.I. @ 28 days. For Reinforced Concrete Design for 1200 P.S.I., See Special Provisions.
 - CHAMFER: All exposed corners of concrete shall be chamfered 1"x1" with milled chamfer strips.
 - REINFORCING STEEL: Reinforcing steel shall conform to ASTM designation A-615 Grade 60. All splices shall be lapped a minimum of 24 bar diameters, unless otherwise noted. Minimum cover for any bar shall be 3" unless otherwise noted.
 - All anchor bolts hex nuts & washers shall conform to ASTM designation A-449 unless otherwise noted.
 - Maximum design foundation bearing pressure equals 3000 P.S.F.
 - EXISTING UTILITIES: Existing conduits, pipes, mains, overhead lines, surface construction etc., which may affect the work of this Project have been shown on the Plans from recorded data. However, the Engineer does not warrant or guarantee the accuracy or completeness of this information, it shall be the responsibility of the Contractor to locate and protect all existing facilities which might be affected by this work or its operations.
 - HORIZONTAL ALIGNMENT: Position all overhead signs so that the face of panel is at right angles to normal edge of roadway, if on a tangent, or at right angles to the tangent to the curve of the sign location if on a horizontal curve.

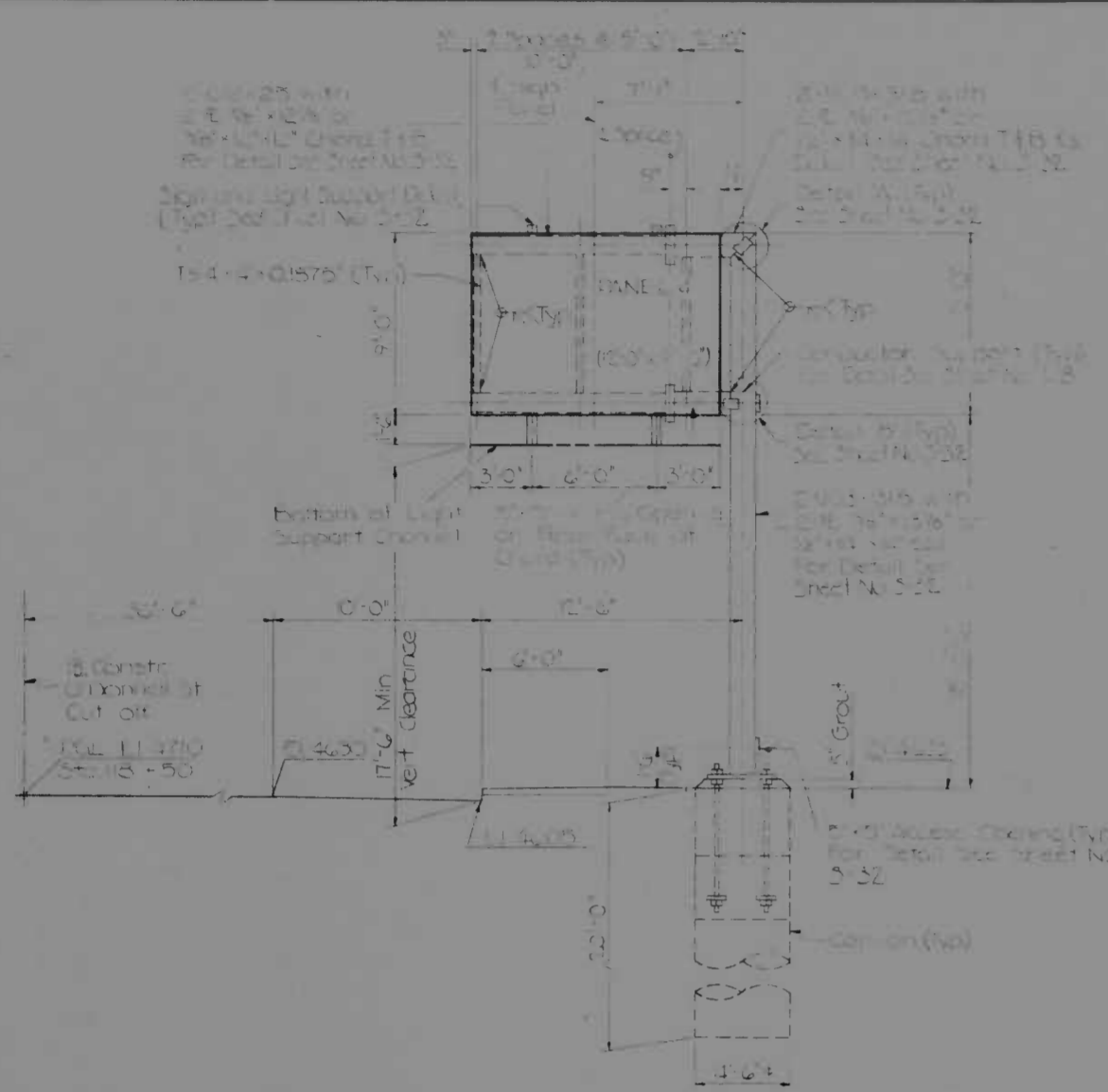
POLE HEIGHT	LOCATION		ANCHOR BOLT DATA		CAISSON DATA				CASE	BORING NO.
	STATION	OFFSET TO & FOUNDATION	A	B	ELEV 'A'	ELEV 'B'	ELEV 'C'	ELEV 'D'		
140'	288+10	45 Rt. & Constr. I-83 S	34"	2 1/2" φ	41.4	41.3	17.0	40.2	III	B-44
100'	291+07	B. Constr. I-95	25"	2 1/4" φ	68.1	60.4	40.0	58.1	II	B-43
100'	296+12	B. Constr. I-95	25"	2 1/4" φ	67.0	66.0	46.5	64.9	II	B-46
100'	301+18	B. Constr. I-95	25"	2 1/4" φ	76.28	76.1	56.0	73.0	II	B-22
100'	306+24	B. Constr. I-95	25"	2 1/4" φ	86.31	86.1	66.0	83.6	II	B-33
100'	311+30	B. Constr. I-95	25"	2 1/4" φ	94.01	94.7	74.5	92.5	II	B-35
110'	316+35	B. Constr. I-95	30 1/2"	2 1/2" φ	87.5	88.5	53.5	85.5	X	B-55
140'	283+10	75' Lt. & Constr. Boston St.	34"	2 1/2" φ	43.4	43.3	19.0	40.9	III	B-57
140'	112+30	50' Lt. & Constr. GUSRYAN ST. 28			33.9	38.5	14.0	36.1	VI	B-52

REFERENCES: Boring Logs, Conduit Entrances.

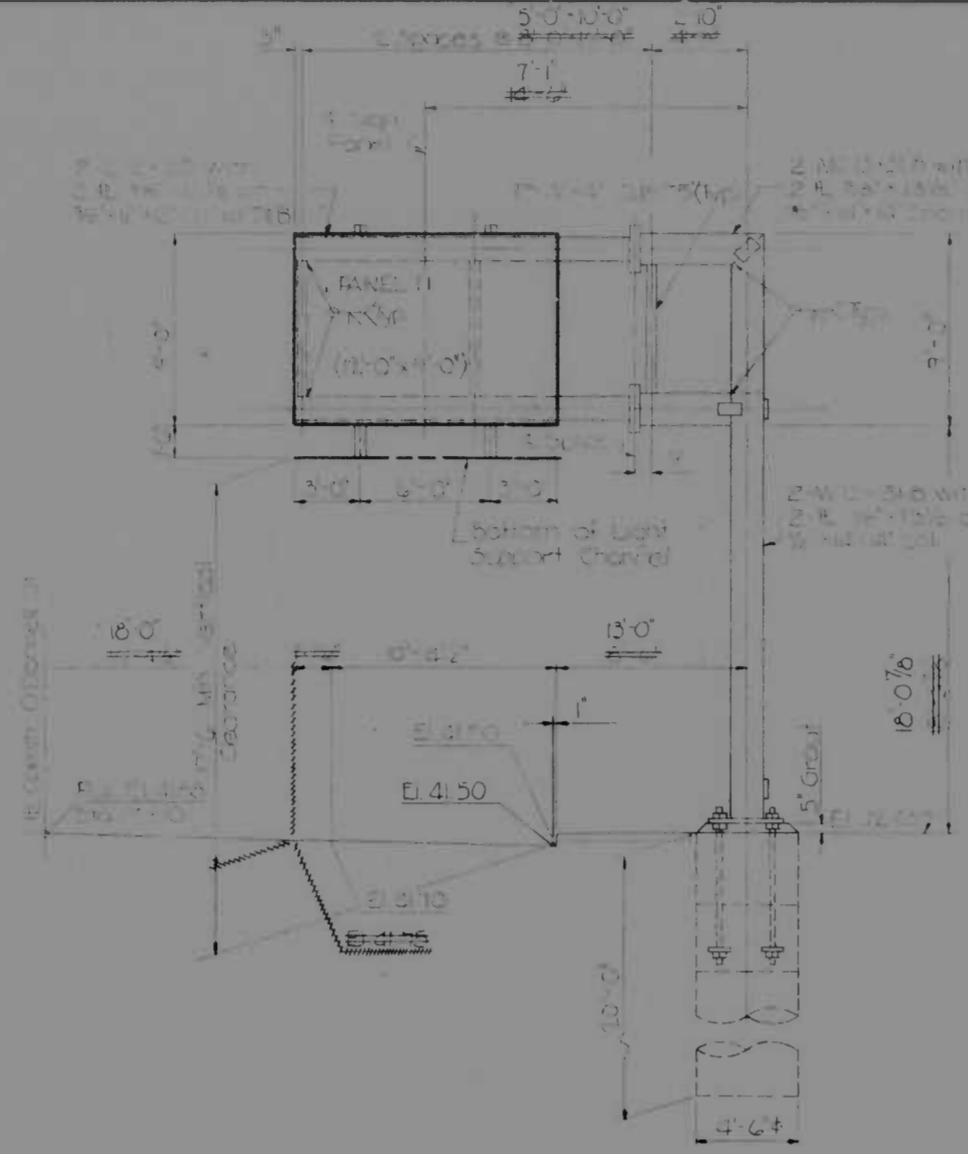
SHEET NO. 515 (119) OF 516 S-33

REVISIONS A REVISED LIGHT POLE LOCATION - SEE SHEET S-33 B REVISED ANCHOR BOLT LOCATION - SEE SHEET S-33	CONSULTANT KIMBLE, BUNNER, STONE & ASSOC., INC. AND NATZ, GIBBS & PETER, INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 SIGNING FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET LIGHTING FOUNDATION DETAILS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY: A.J.M. TRACED BY: A.J.M. F.A.P. NO.: I-95-4(39)34 S.R.C. NO.: BC 246-36-815 BALTO. CITY NO.: 1998
SCALE: AS SHOWN		DATE: MAY 11, 1973	DES. BY: C.D.P. CHK. BY: F.F.M. SHEET NO. (119) S-28 OF S-33

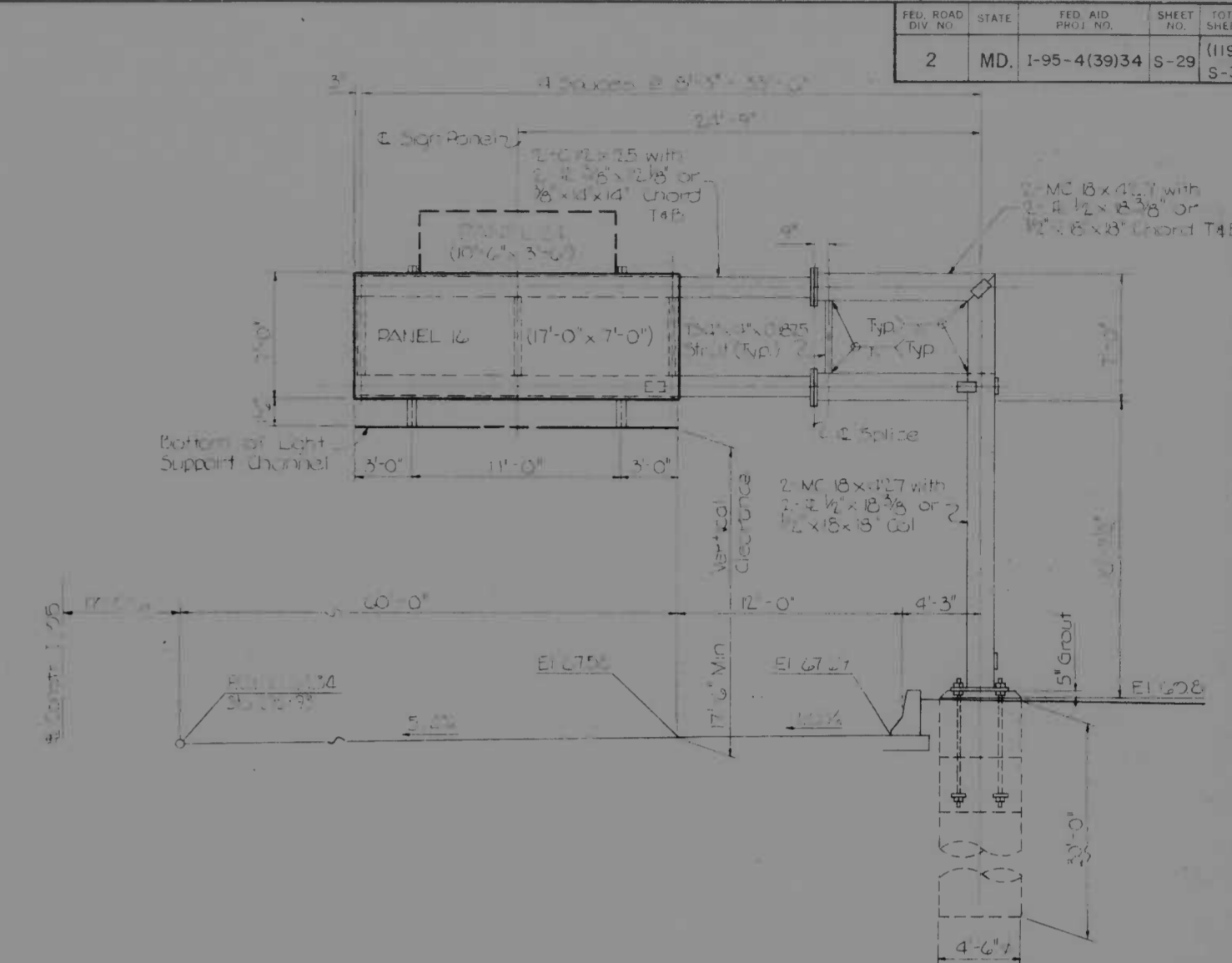
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(39)34	S-29	(119) S-33



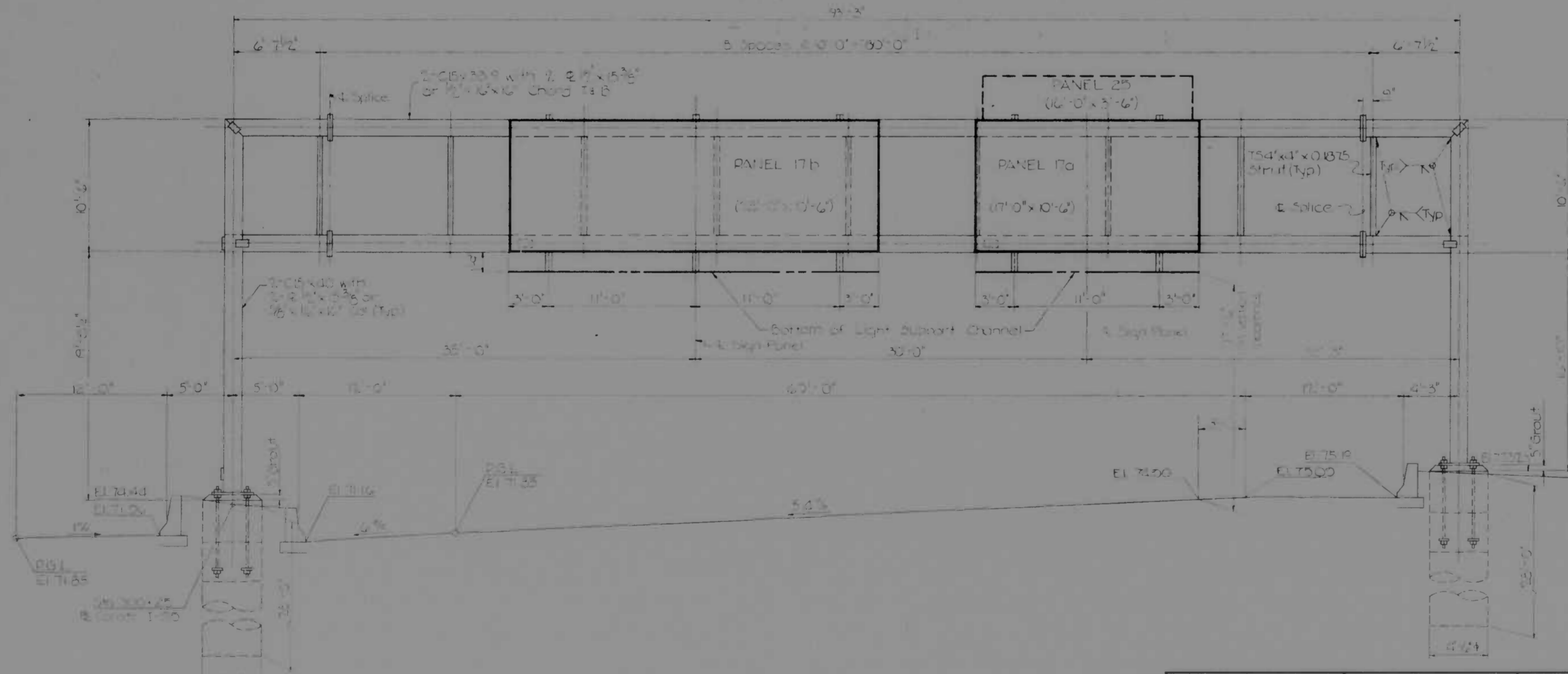
ELEVATION SIGN NO. 4
TYPE C-1



ELEVATION SIGN NO. 11 △
TYPE C-1



ELEVATION SIGN NO. 16
TYPE C-1



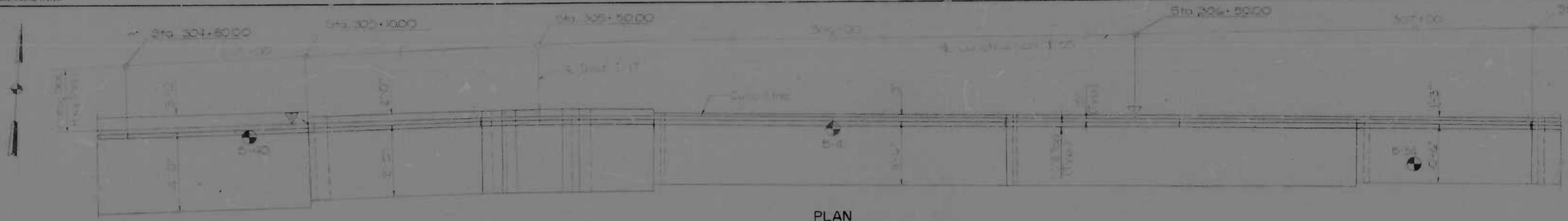
ELEVATION SIGN NO. 17
TYPE C-1

- STRUCTURAL NOTES:**
1. For General Notes See sheet No. 21-1
 2. STRUCTURAL STEEL: Structural steel shall be ASTM Designation A 36B, see Special Provisions.
 3. ALUMINUM: Aluminum sign panel shall be Alloy 3003-H14.
 4. All bolts for field connections shall be high strength bolts ASTM A 325.
 5. Design of field welding applications to be design and construction of structural supports for temporary signs, 1976B.
- REFERENCES:**
- | REFERENCE | SHEET NO. |
|--------------------------------------|-----------|
| Overhead Sign Structure Locations | 21-3 |
| Miscellaneous Sign Structure Details | 3-32 |
| Signing Foundation Details | 3-27 |
| Supports For Special Signs | 3-33 |
| Sign Panel Assembly Details | 3-11 |

REVISIONS △ Sign 11 Revised 7-18-73	CONSULTANT KROEGER, BENDER, STONE & ASSOC., INC. AND WATZ, CHURCH & FOSTER, INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 SIGNING FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET OVERHEAD SIGN STRUCTURES NO. 4, 11, 16 & 17	
SCALE: 3/16" = 1'-0"		DATE: MAY 11, 1973	
DRAWN BY: A.J.M. TRACED BY: A.J.M.		DES. BY: C.D.P. CHK. BY: F.F.M.	
F.A.P. NO. 1-95-4(39)34 S.R.C. NO. BC 246-36 815		BALTO. CITY NO. 1998	
		SHEET NO. (119) S-29 of S-33	

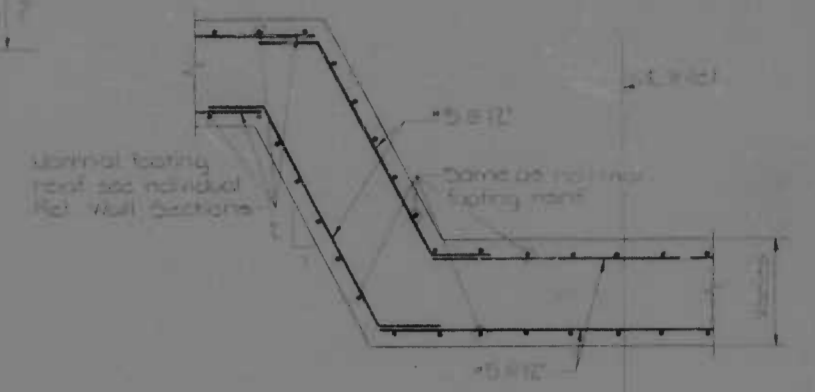
MS BALTIMORE 1973

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(13)34	5-3	(119)
				5-33

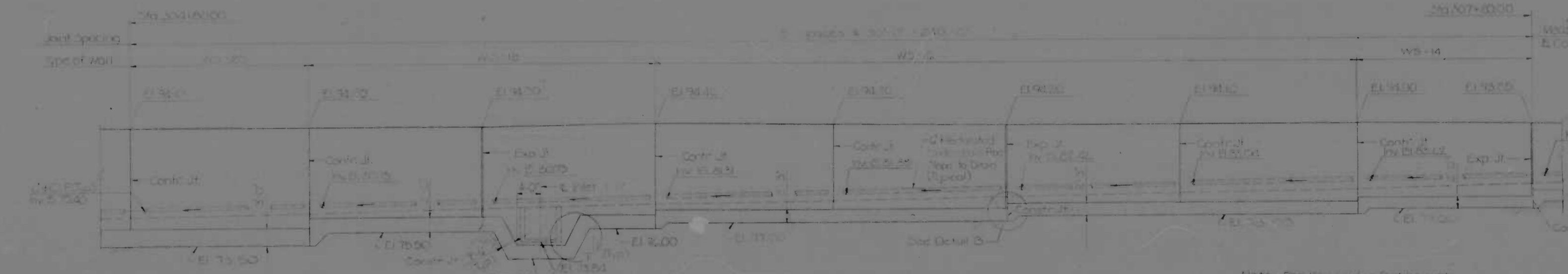


PLAN

FROM STA 304 + 8000 To STA 307 + 2000

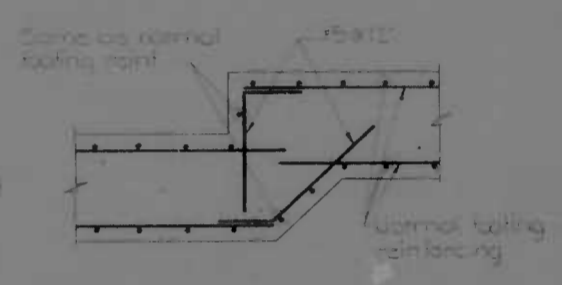


DETAIL 'A'
Scale 1/4\"/>



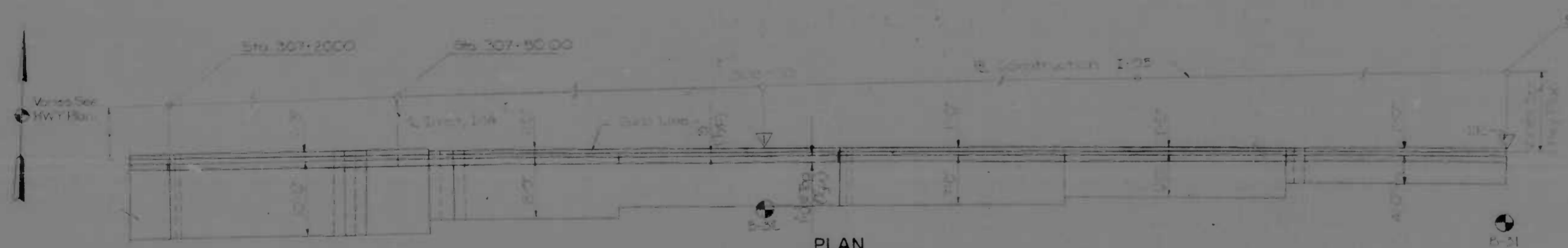
ELEVATION

FROM STA 304 + 8000 To STA 307 + 2000



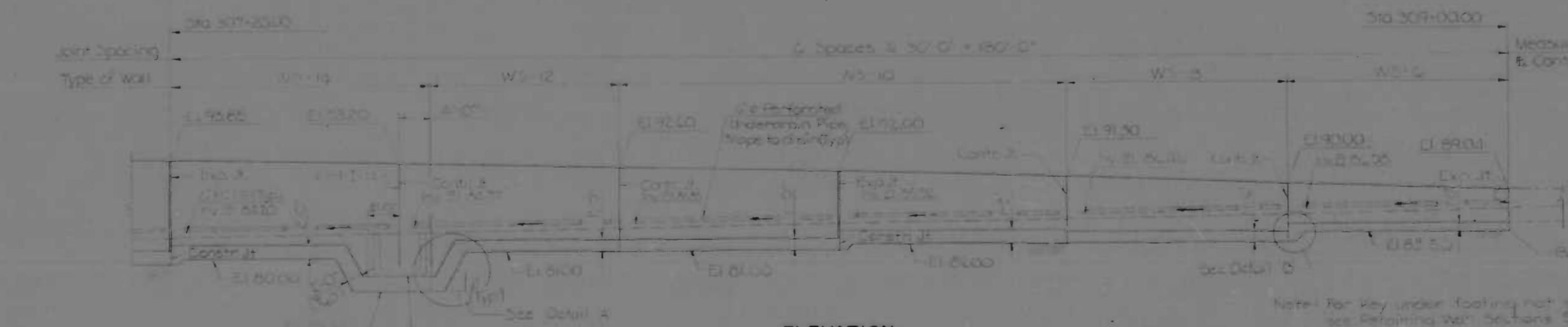
DETAIL 'B'
Scale 1/4\"/>

Note: For key under footing not shown see Retaining Wall Sections Sheet



PLAN

FROM STA 307 + 2000 To STA 309 + 0000



ELEVATION

FROM STA 307 + 2000 To STA 309 + 0000

Note: For key under footing not shown see Retaining Wall Sections Sheet

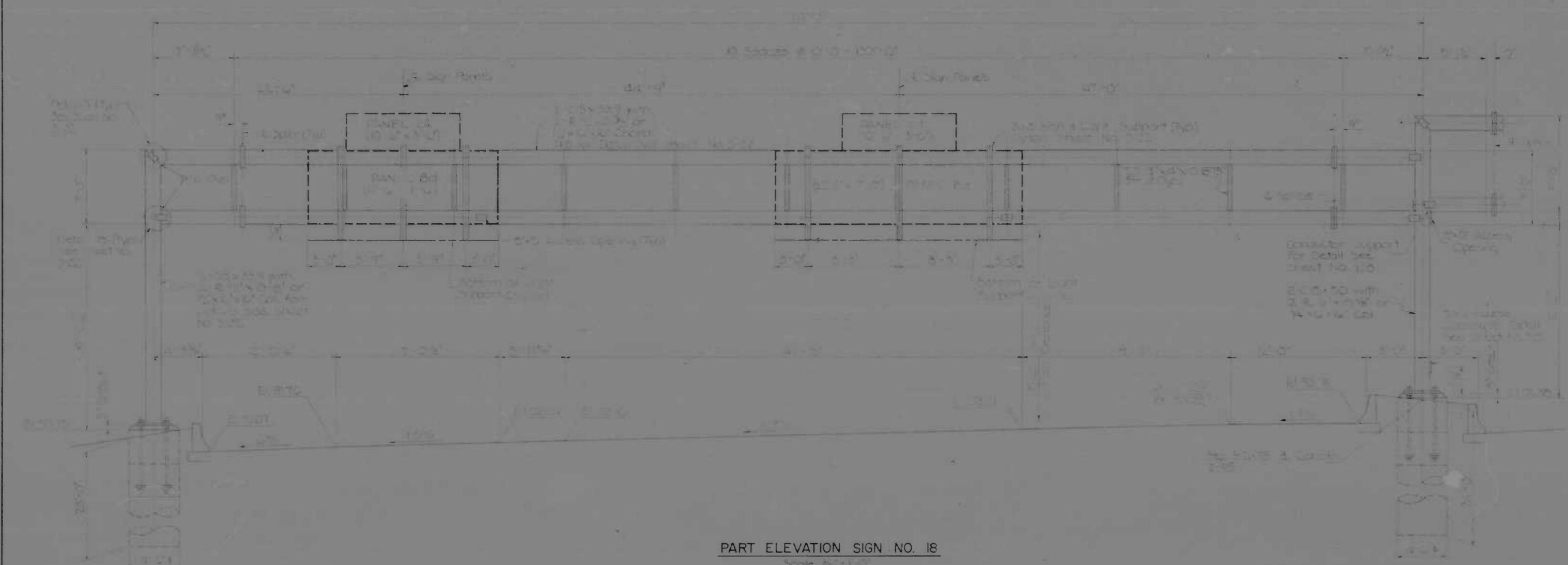
LEGEND
 W-1: Indicate the location of travel and traffic pull back
 B: Bearing location

NOTE
 For design purpose, the foundation bearing pressure does not exceed 2.5 SF

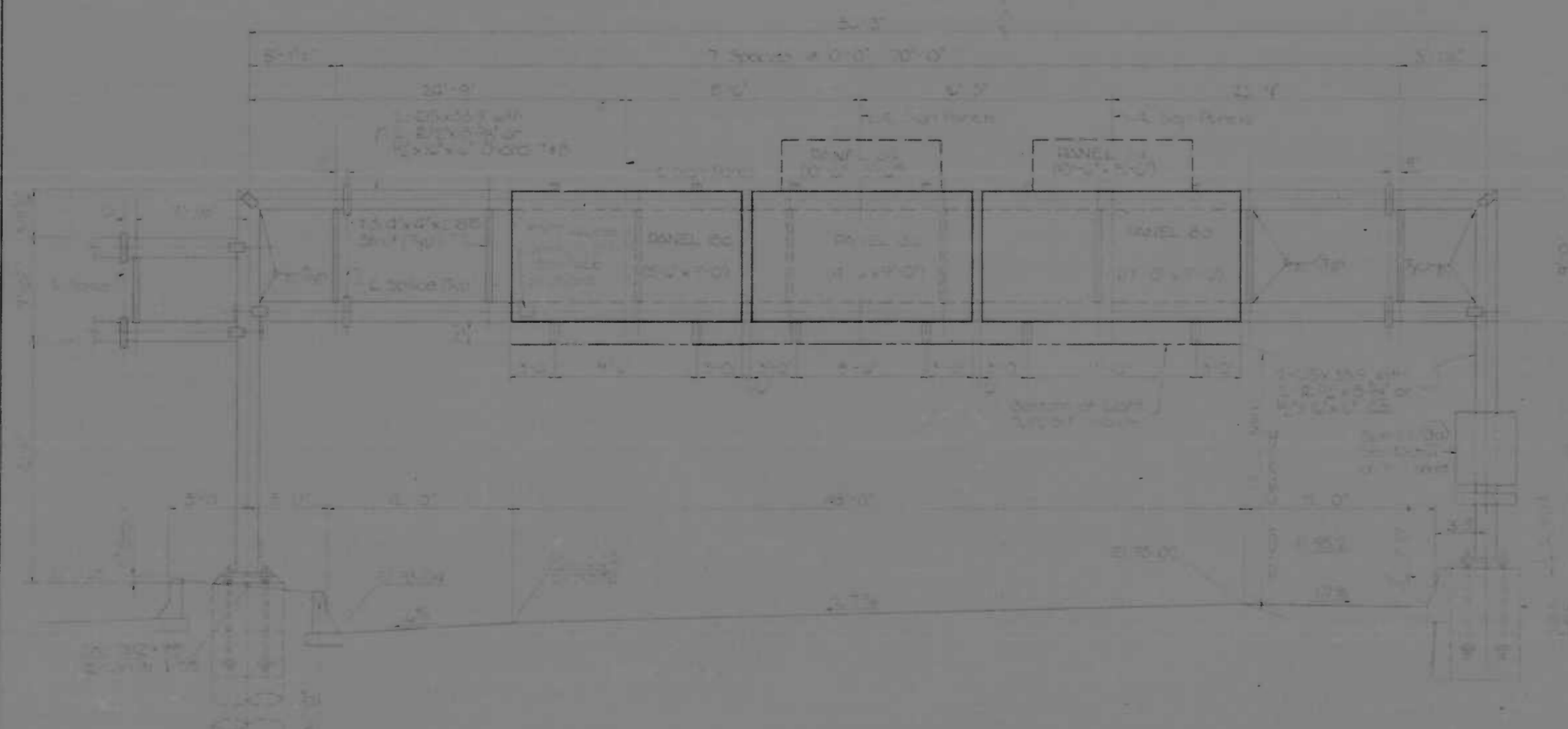
REFERENCE
 All Retaining Wall Sections... 5-5
 Details for Retaining Wall A or other... 5-2
 General Notes... 5-3-1

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	MARRELL, BENDER, STONE & ASSOC., INC. MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 541 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 RETAINING WALL 'B' GENERAL PLAN AND ELEVATION - II		DRAWN BY: S.D.W. TRACED BY: S.D.W. F.A.P. NO.: I-95-4(13)34 S.P.C. NO.: BC246-36-615 BALTO. CITY NO. 1998	DES. BY: C.Y.T. CHK. BY: M.S.C. SHEET NO.: (119) 5-3 of 5-33
SCALE: 1" = 10'-0"		DATE: MAY 11, 1973			

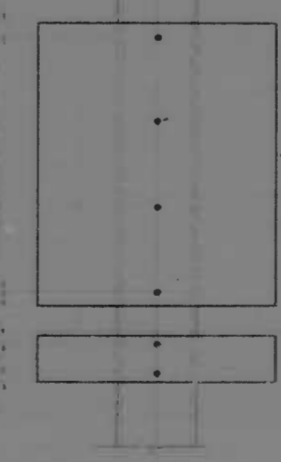
REV. NO.	DATE	BY	CHK.	APP.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(19)34	5-30		(119)	S-33



PART ELEVATION SIGN NO. 18
Scale 3/8"=1'-0"



PART ELEVATION SIGN NO. 18
Scale 3/8"=1'-0"



SPECIAL 30
Scale 3/8"=1'-0"

NOTES

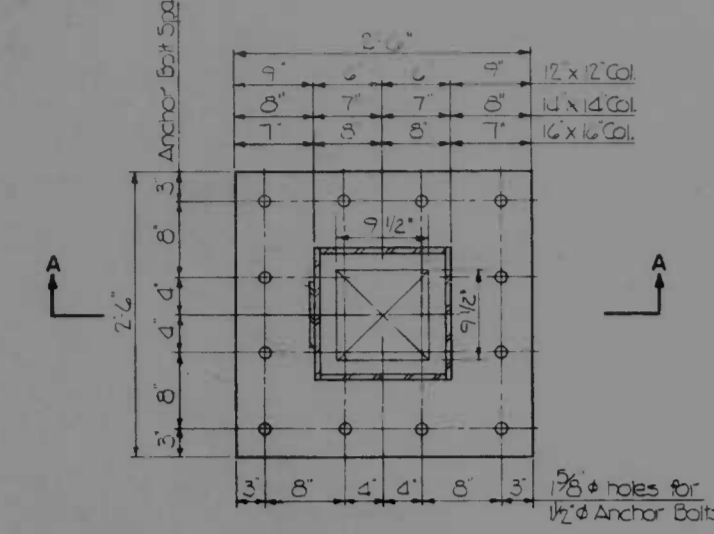
See General Notes, Sheet No. 211
For structural details see Sheet No. 212

REFERENCES

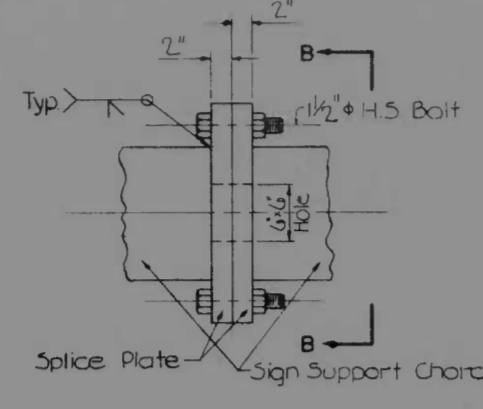
General Sign Structure Location	211
Sign Panel Assembly Details	212
Miscellaneous Sign Details	213
Signage Standards	214
Supports for Sign Posts	215

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 SIGNING FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET OVERHEAD SIGN STRUCTURE NO 18	
		DRAWN BY: A.J.M.	DES. BY: C.D.P.
		TRACED BY: A.J.M.	CHK. BY: P.F.M.
		F.A.P. NO. 1-95-4(19)34	SHEET NO. (119)
		S.R.C. NO. BC 246-36-R15	5-30 of 9-33
		SCALE: AS SHOWN	DATE: MAY 11, 1973
			BALTD. CITY NO. 1998

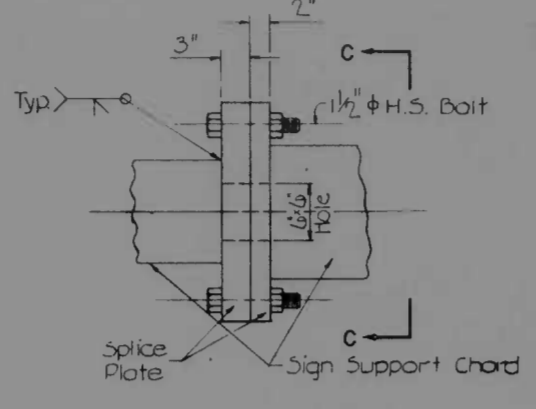
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(39) 34	S-32	(119)
				S-33



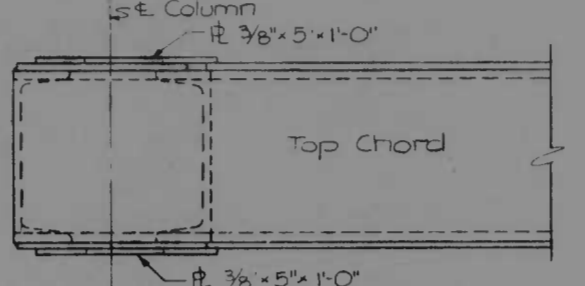
PLAN



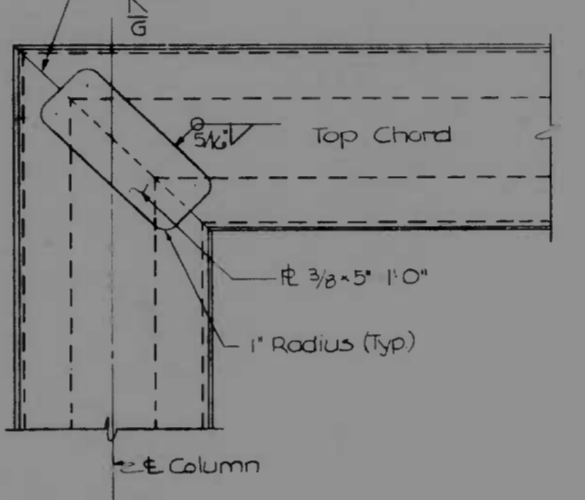
ELEVATION



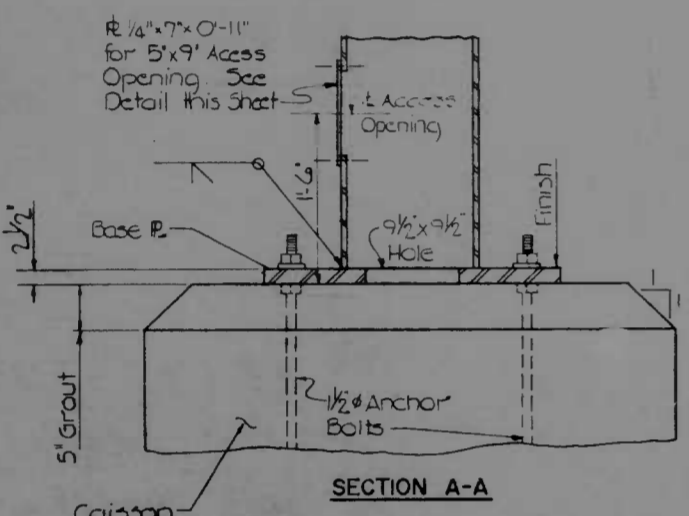
ELEVATION



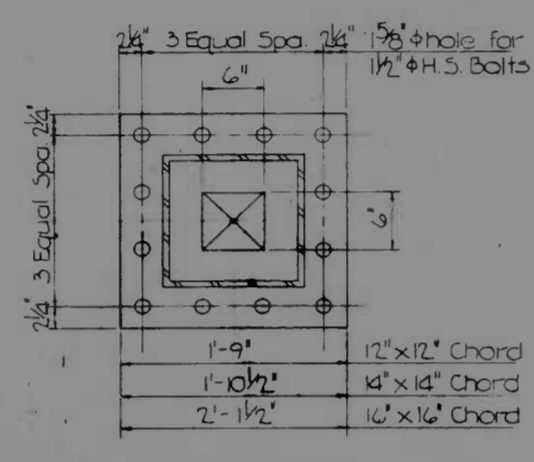
PLAN



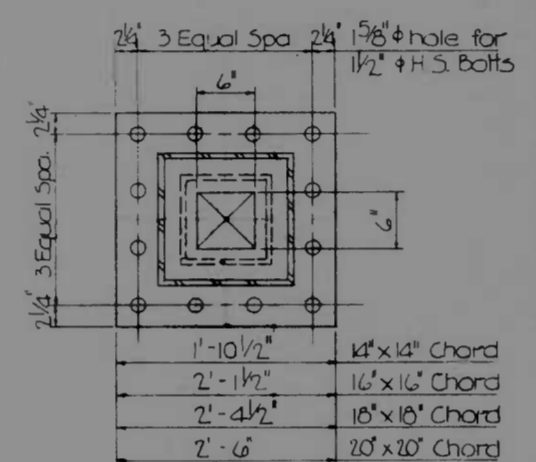
ELEVATION



SECTION A-A
BASE PLATE DETAILS
Scale: 1"=1'-0"

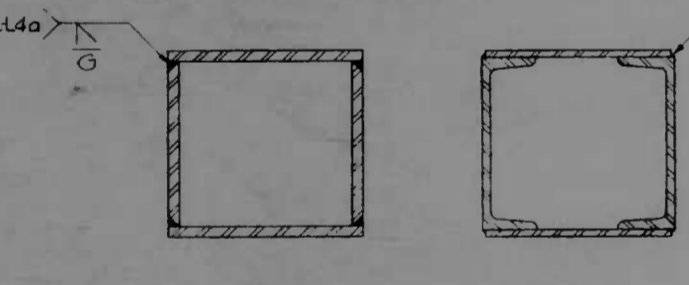


SECTION B-B
TYPES BR-I & BR-II
Scale: 1"=1'-0"

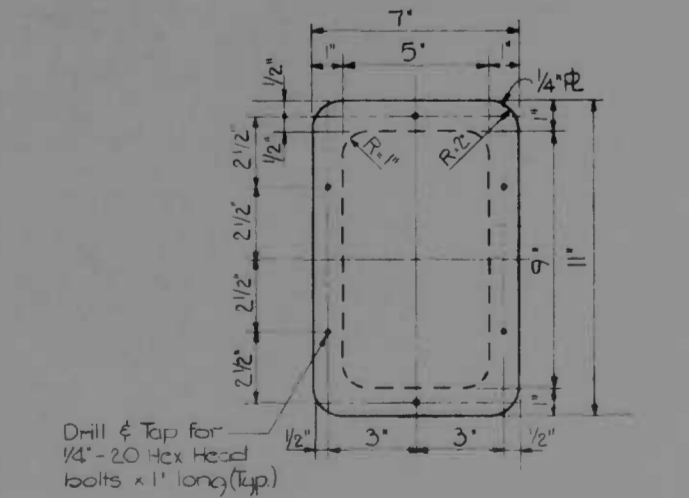


SECTION C-C
TYPE C-1
Scale: 1"=1'-0"

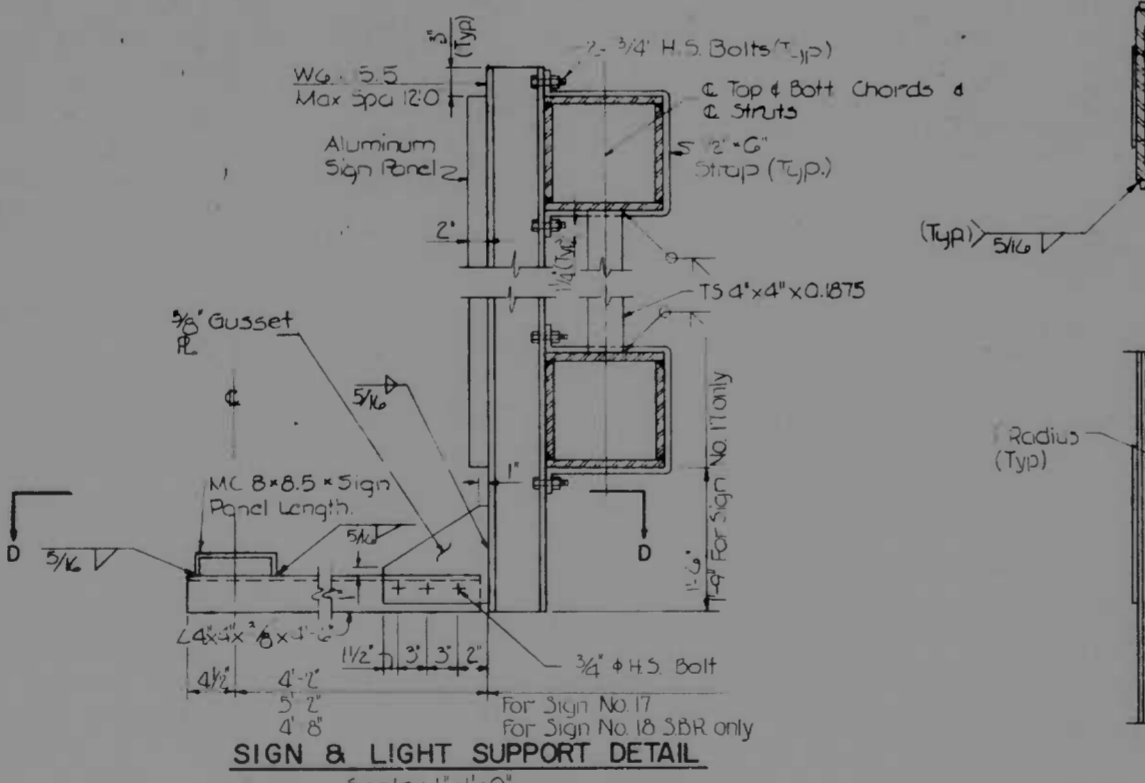
CHORD SPLICE DETAILS
Scale: 1"=1'-0"



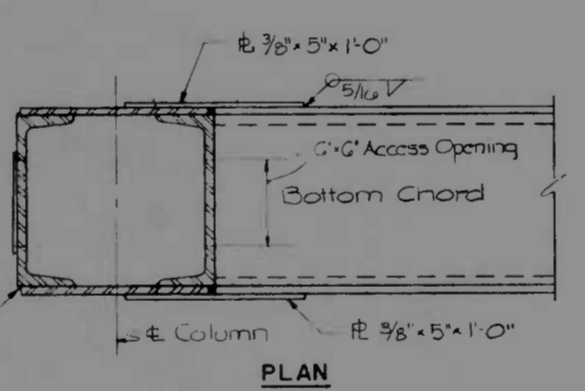
TYPE A TYPE B
COLUMN AND CHORD DETAIL
Not To Scale



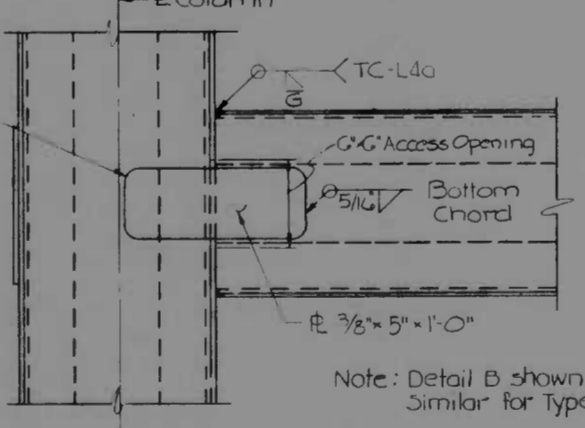
ACCESS OPENING DETAIL
Scale: 3"=1'-0"



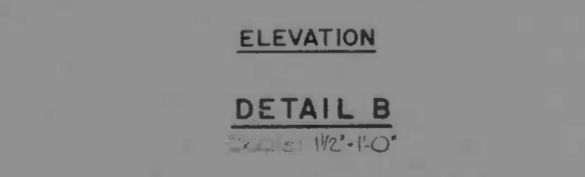
SIGN & LIGHT SUPPORT DETAIL
Scale: 1"=1'-0"



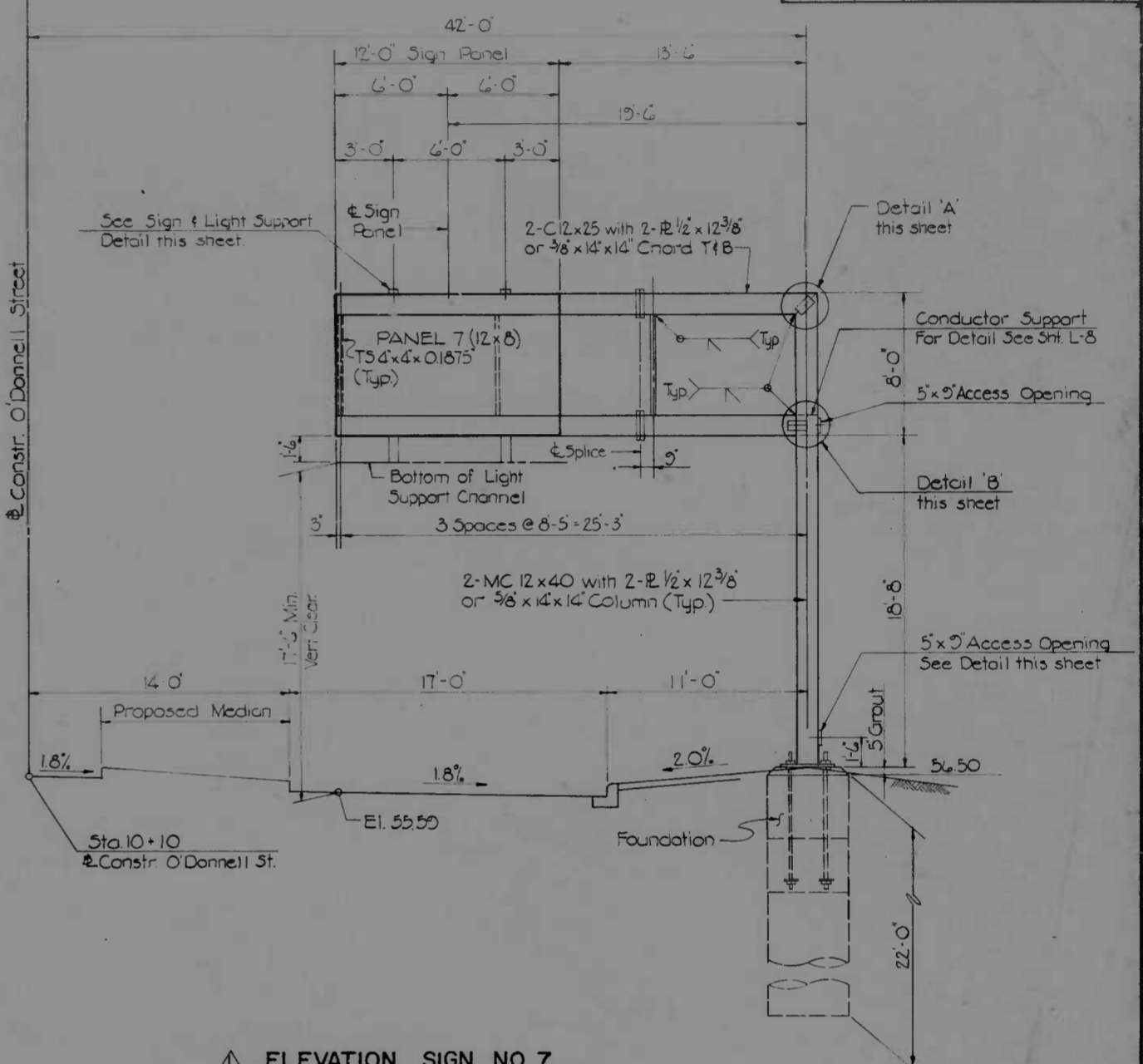
PLAN



ELEVATION



DETAIL B
Scale: 1 1/2"=1'-0"



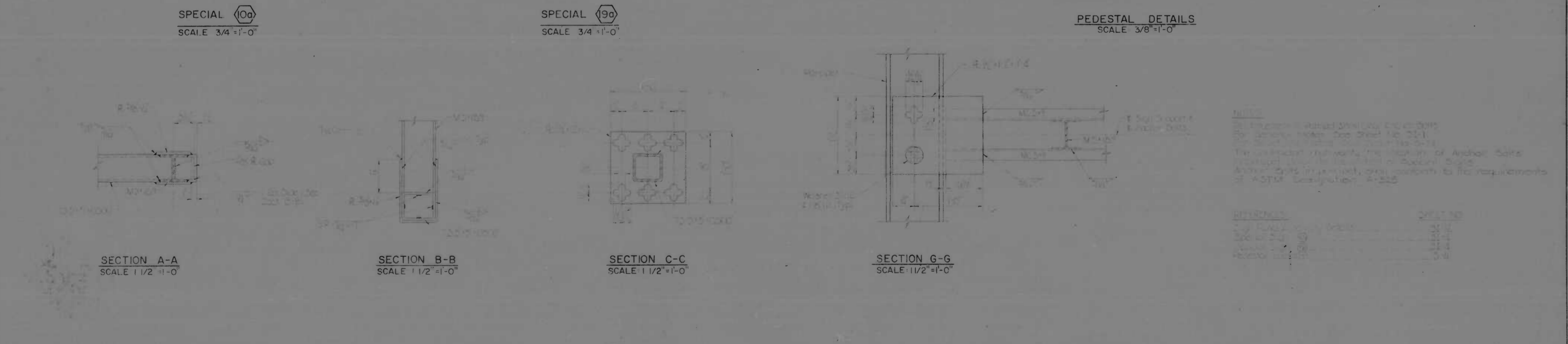
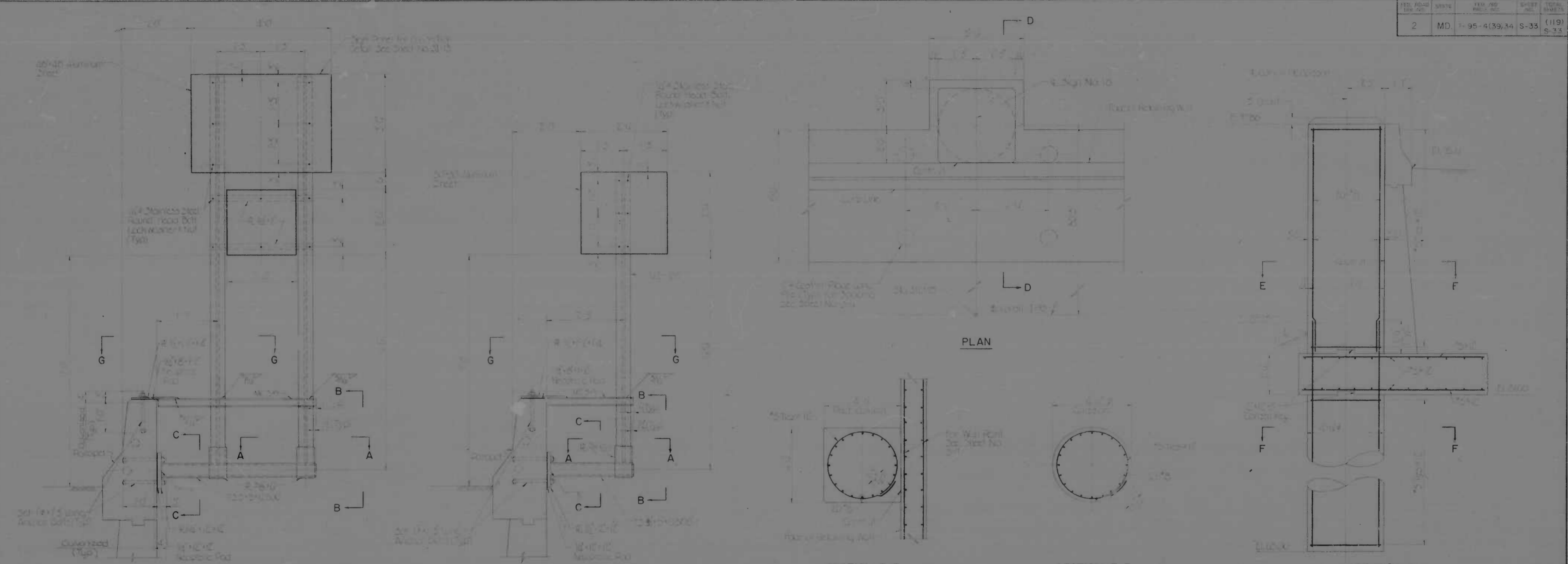
ELEVATION SIGN NO. 7
Scale: 3/16"=1'-0"

- NOTES
1. For General Notes See Sheet No. S1-1
 2. For Structural Notes See Sheet No. S1-2

REFERENCES	SHEET NO.
Sign Panel Assembly Details	S1-12
Overhead Sign Structures 4, 11, 16 & 17	S-29
Overhead Sign Structure 16	S-30
Overhead Sign Structures 19, 20, 21, 22 & 23	S-31
Signing Foundations	S-27

REVISIONS Sign #7 Added 7-10-73	CONSULTANT ANCHOR, BENDER, SIVNE & ASSOC., INC. WATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 SIGNING FROM O'DONNELL STREET TO WEST OF GUBRYAN STREET MISCELLANEOUS SIGN STRUCTURE DETAILS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		DRAWN BY: A.J.M. TRACED BY: A.J.M. F.A.P. NO.: 1-95-4(39)34 S.R.C. NO.: B.C. 246-36-815 BALTO. CITY NO. 1998	DES. BY: C.D.P. CHK. BY: A.E.	SHEET NO. (119) S-32 OF S-33	

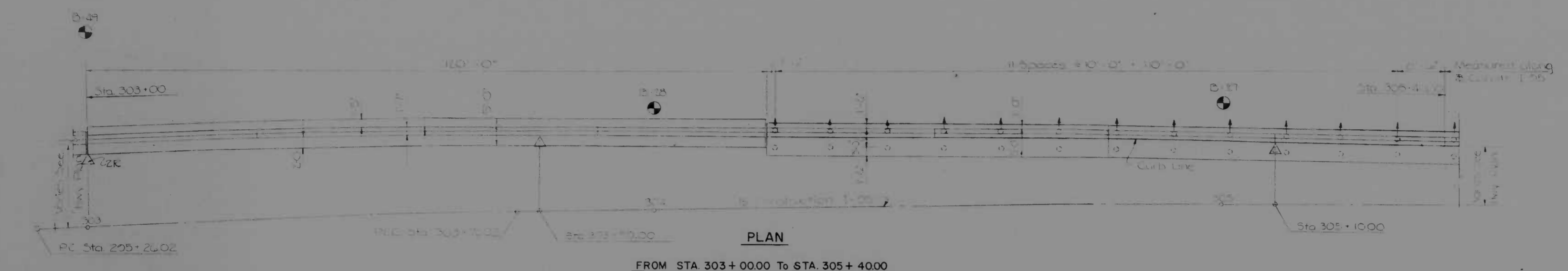
SHEET NO.	2	STATE	MD.	F.P. NO.	1-95-4(39)34	SHEET NO.	S-33	TOTAL SHEETS	(119)
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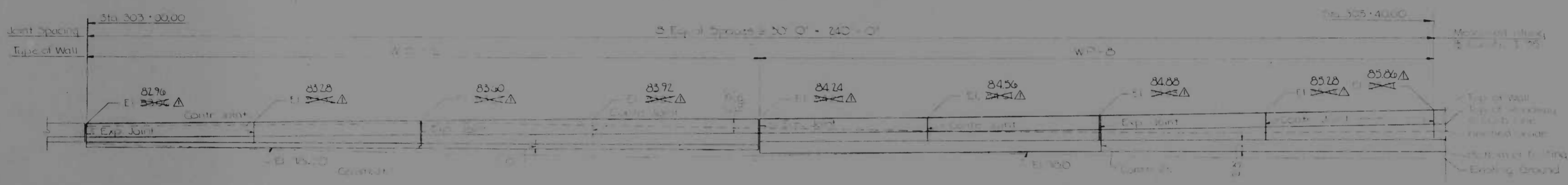
NOTES:
 1. All dimensions are in feet and inches unless otherwise specified.
 2. The structure shall be constructed in accordance with the requirements of the Maryland State Road Code, Article 26B, Section 26B-201.
 3. The structure shall be constructed in accordance with the requirements of the American Institute of Steel Construction, Inc., Specification for Structural Steel Buildings, 1970 Edition.
 4. The structure shall be constructed in accordance with the requirements of the American Institute of Steel Construction, Inc., Specification for Structural Steel Buildings, 1970 Edition.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	1000 W. BALTIMORE ST. BALTIMORE, MD.	INTERSTATE ROUTE 95 SIGNING FROM CONNELL STREET TO WEST OF GUSRYAN STREET SUPPORTS FOR SPECIAL SIGNS	DRAWN BY: RLD TRACED BY: RLD F.P. NO. 1-95-4(39)34 S.R.C. NO. BC 246-36-85
		SCALE: AS SHOWN	DATE: MAY 11, 1973

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-43934	S-4	(119) S-33



PLAN
FROM STA 303+00.00 To STA 305+40.00

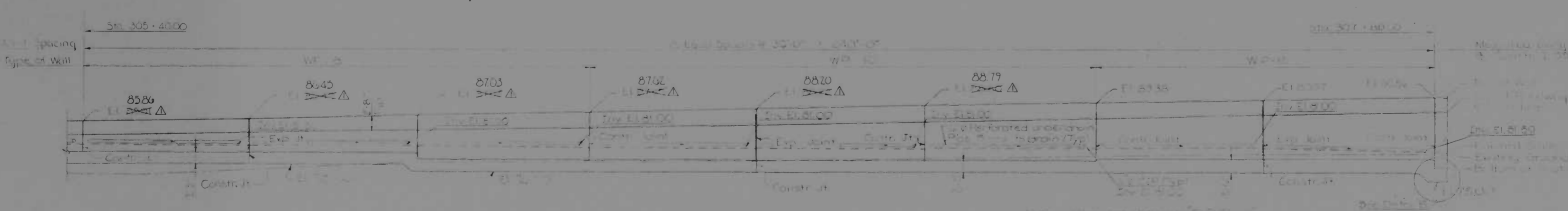


ELEVATION
FROM STA 303+00.00 To STA 305+40.00

NOTE: Piles not shown in ELEVATION



PLAN
FROM STA 305+40.00 To STA 307+80.00



ELEVATION
FROM STA 305+40.00 To STA 307+80.00

- NOTES**
- All piles shall be 12" diameter, 30 gauge 7 foot H-Beam Concrete piles driven to minimum safe bearing value of 12 tons.
 - For pile details, see sheet S-33.

- LEGEND**
- ↑ Butted Pile Direction of Butted
 - Pile
 - △ Transition Traffic Pull Box
 - ⊙ Boring Locations

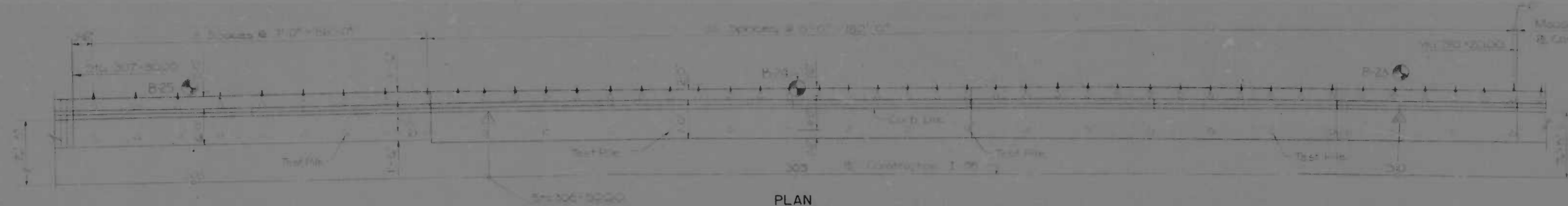
REFERENCES

Retaining Wall Sections	S-7
Detail E	5
General Notes	S-1

REVISIONS Δ Revised Ret Wall Elev 5-10-73	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 RETAINING WALL 'C' GENERAL PLAN AND ELEVATION - I	DRAWN BY: S.D.W. TRACED BY: S.D.W. F.A.P. NO. I-95-4 (39) 34 S.R.C. NO. B.C. 246-36-815 BALTO. CITY NO. 1973
SCALE: 1" = 10'-0"		DATE: MAY 11, 1973	

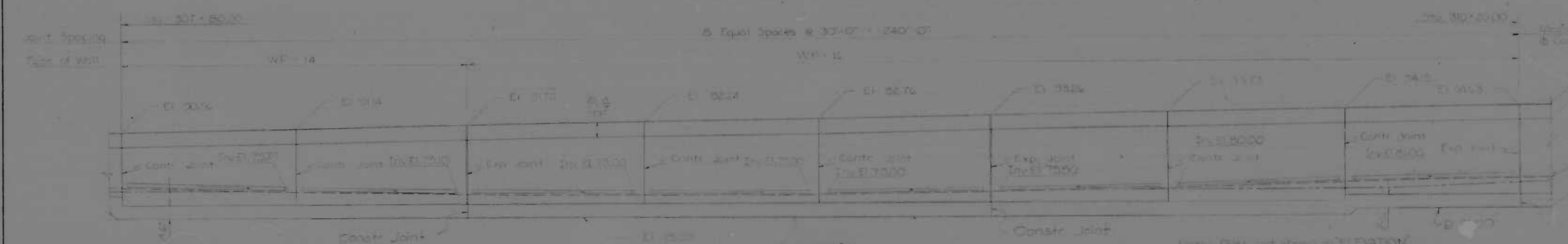
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	S-5	(119)
				S-33

NOE BALTIMORE 17438



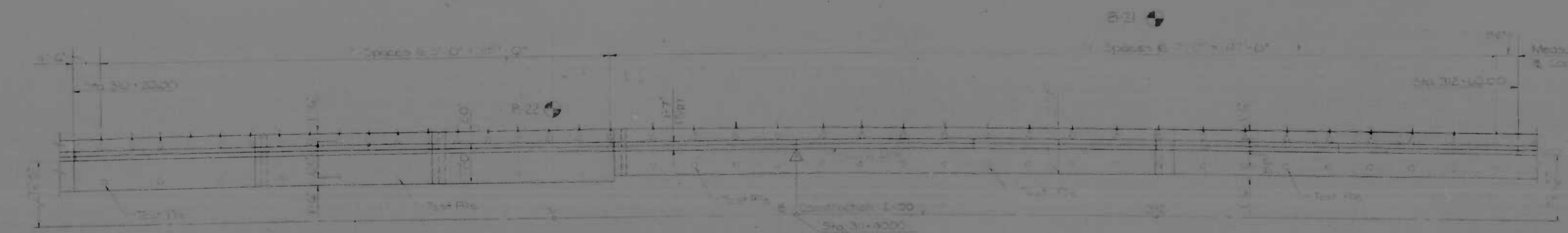
PLAN

FROM STA 307+8000 To STA 310+2000



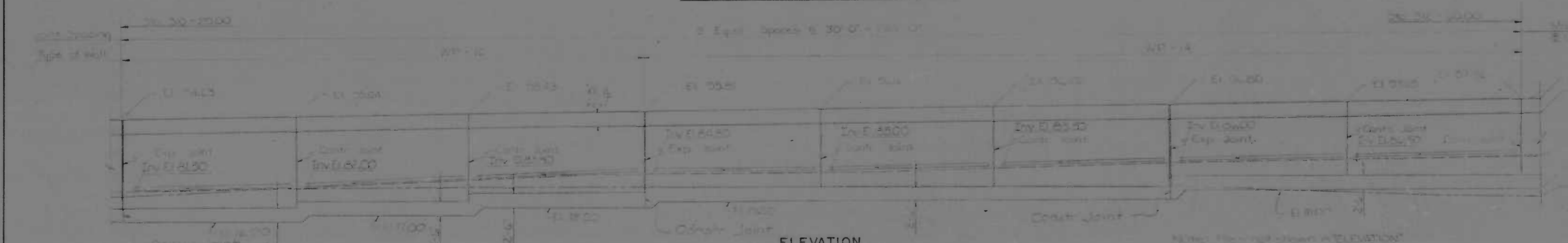
ELEVATION

FROM STA 307+8000 To STA 310+2000



PLAN

FROM STA 310+2000 To STA 312+6000



ELEVATION

FROM STA 310+2000 To STA 312+6000

LEGEND

- ▲ Station and Height
- ▲ Station and Direction
- Station
- Station
- Station

NOTES

- 1. All work shall be in accordance with the Baltimore City Specifications for Retaining Walls.
- 2. The wall shall be constructed in accordance with the Baltimore City Specifications for Retaining Walls.

REFERENCES SHEET NO.

- Retaining Wall Section - I
- Retaining Wall Section - II
- General Notes

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 RETAINING WALL 'C'		DRAWN BY S.D.W. DES. BY K.S.J. TRACED BY S.D.W. CHK. BY M.S.C.	
		GENERAL PLAN AND ELEVATION - II		F.A.P. NO. I-95-4(39)34 SHEET NO. (119)	
		SCALE: 1"=10'-0" DATE: MAY 11, 1973		S.R.C. NO. RC 216 36 815 S-5 of S-33	
				BALTO. CITY NO. 1998	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	5-6	(119) S-33



PLAN
FROM STA 312 + 6000 To STA 315 + 0000



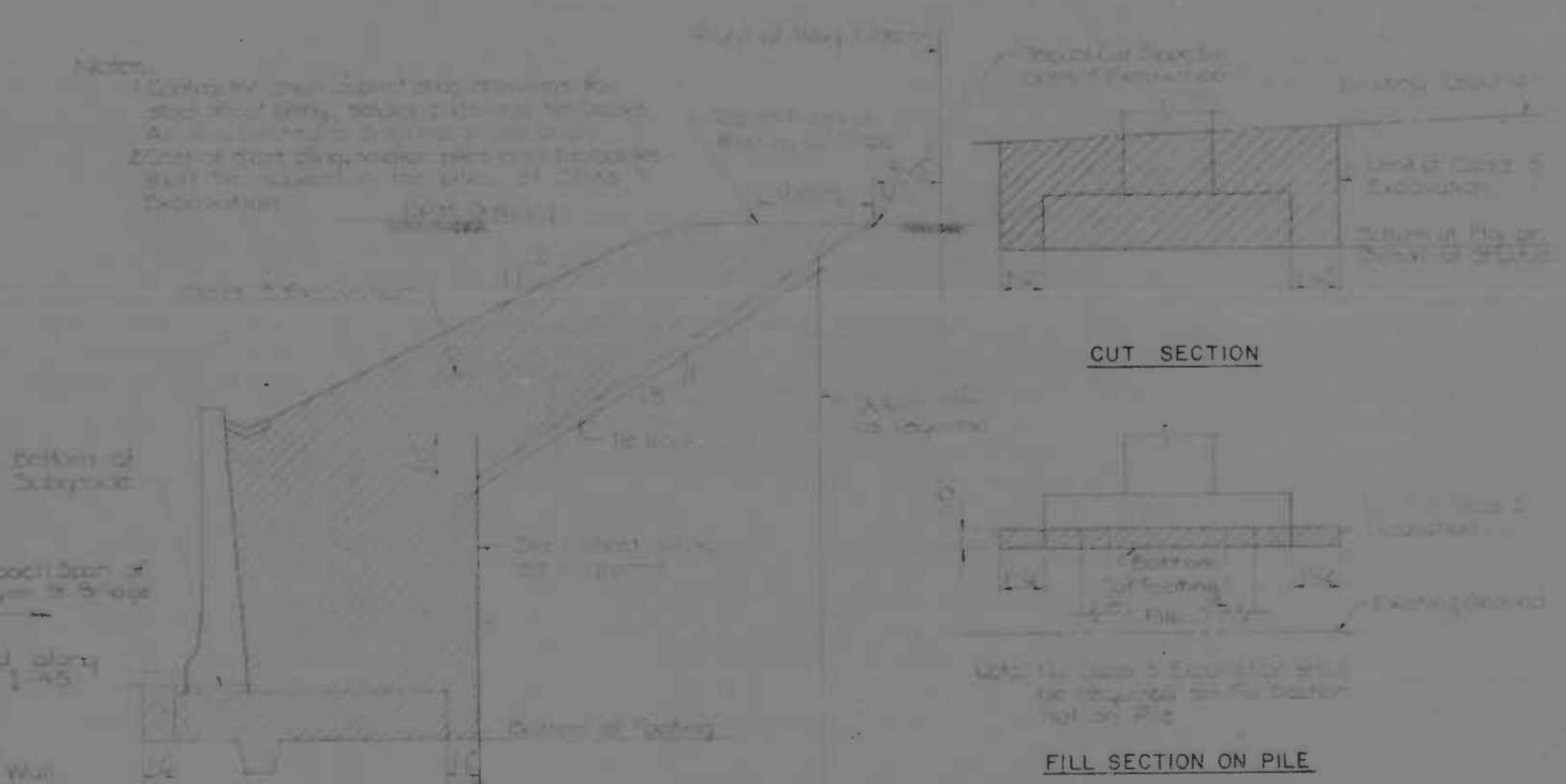
ELEVATION
FROM STA 312 + 6000 To STA 315 + 0000



PLAN
FROM STA 315 + 0000 To STA 316 + 0763



ELEVATION
FROM STA 315 + 0000 To STA 316 + 0763



CLASS '3' EXCAVATION DETAILS
FOR RETAINING WALL 'B' II
FOR ALL STRUCTURES (EXCEPT RET WALL 'B')

NOTES:
1. Piles shall be 2 1/2" Manufactured Gauge 7" Cast
In-Place Concrete. Piles driven to a minimum
set bearing value of 20 tons.
2. For pile details, see sheet S-47.

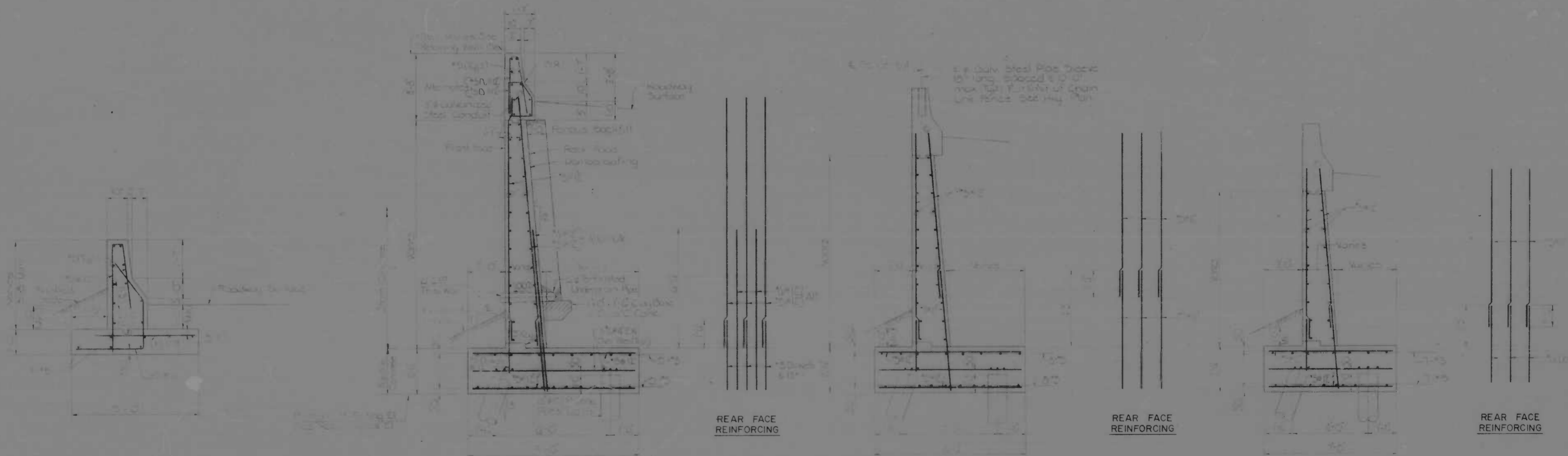
- LEGEND:**
- Starting Locations
 - Center Pile and Location of Outer Piles
 - Existing Ground
 - Top of Wall
 - Top of Roadway & Curb Line
 - Bottom of Footing
 - Existing Ground

REFERENCES:

Retaining Wall Sections	S-7
Class '3' Excavation	S-8
General Notes	S-1

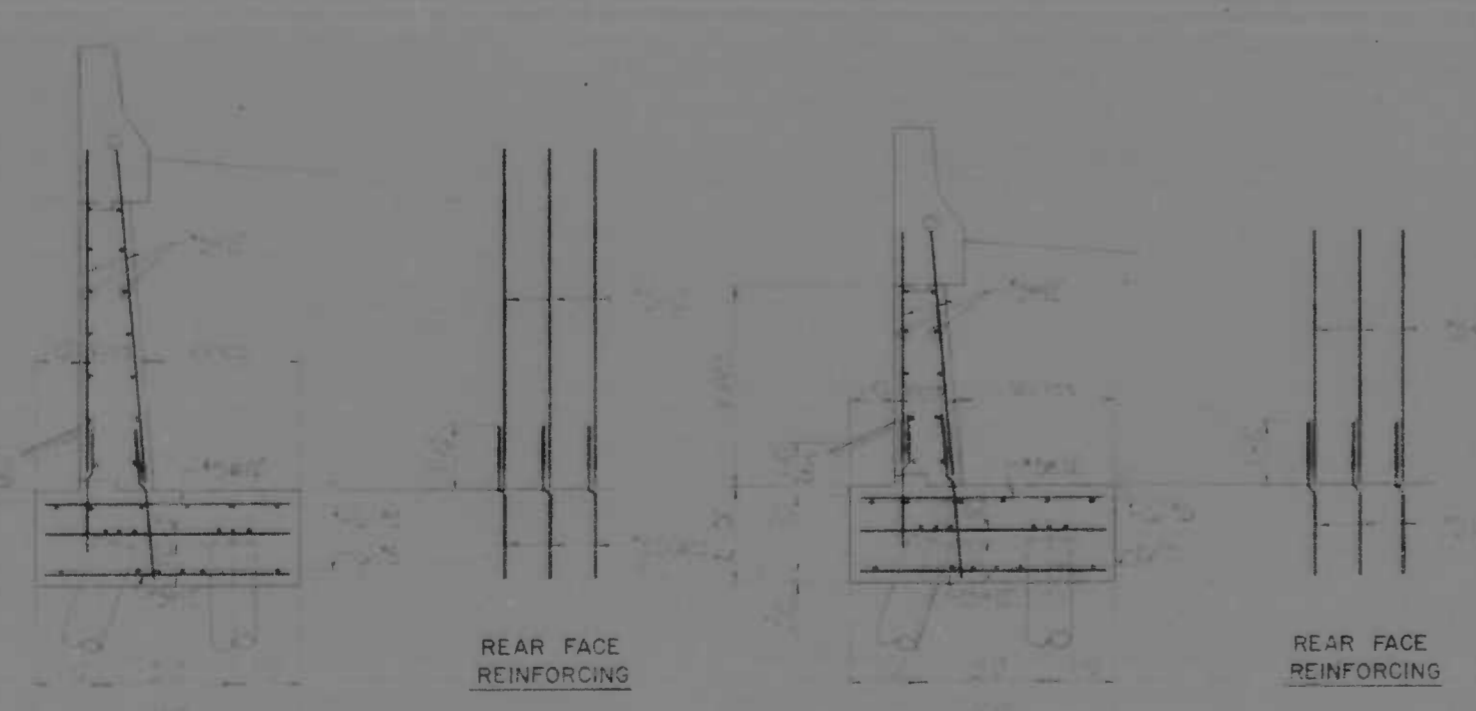
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
Addendum No. 1 5-11-1973		INTERSTATE ROUTE 95 RETAINING WALL C GENERAL PLAN AND ELEVATION - III	DRAWN BY: S.D.W. CHECKED BY: S.D.W. F.A.P. NO.: 95-4(39)34 S.R.C. NO.: 80-246-76-815 BALTO. CITY NO. 1278
		SCALE: As Shown	DATE: MAY 11, 1973
		DES. BY: M.S.C. CHK. BY: F.E.M. SHEET NO. (119) S-6 of S-33	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I 95-4/39/34	8-7	(119) S-33

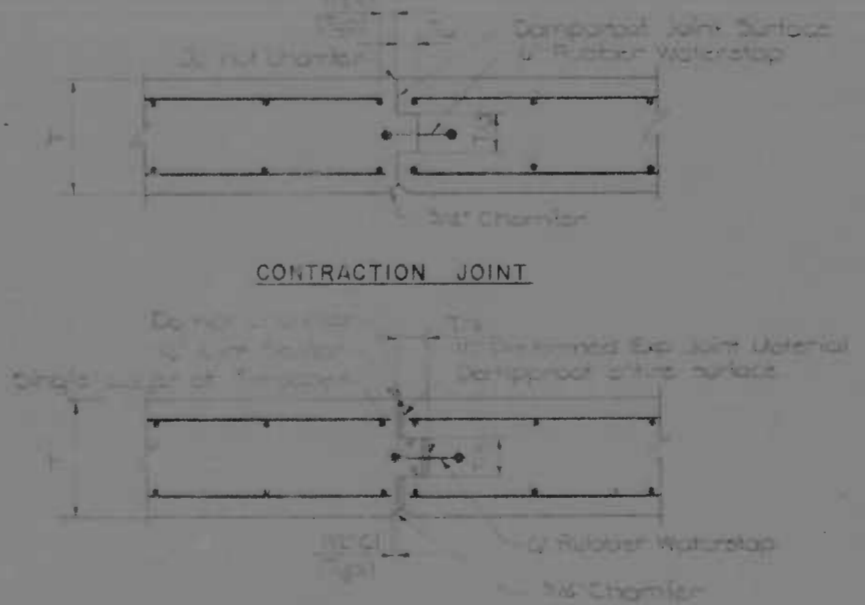


WS-2 WALL SECTION WP-16 WALL SECTION WP-14 WALL SECTION WP-12

Notes: Details shown for Wall Section WP-16 apply to all other Wall Sections unless otherwise noted. For dimensions of 3/4" dia. bars, see Schedule 3 and 4.



WALL SECTION WP-10 WALL SECTION WP-8



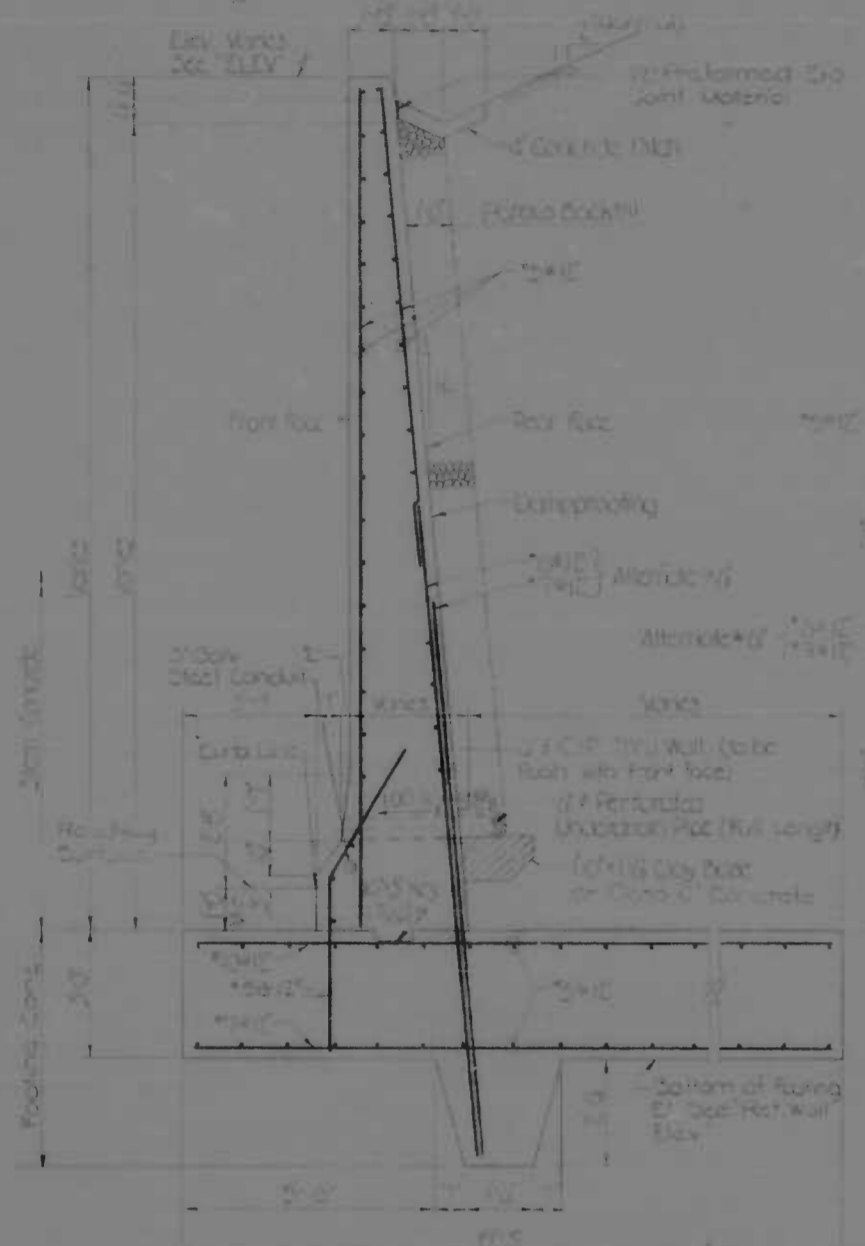
CONCRETE WALL JOINT DETAILS

Notes: (All Piles shall be 12" diameter, spaced 7' apart in Rows. Concrete Piles shall be a minimum safe bearing value of 42 tons.)
For Pile Details, see Sheet S-32.

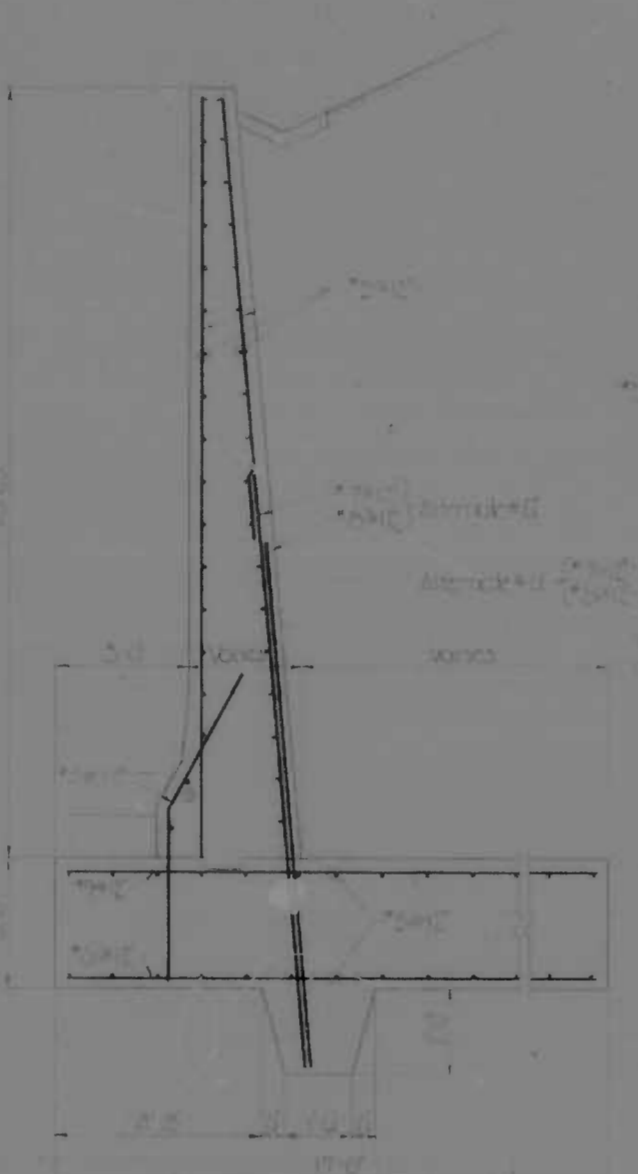
REFERENCES: Retaining Wall & Foundation Engineering, 2nd Edition, by C. E. Spangler, McGraw-Hill, 1968.
Soils and Foundations, 2nd Edition, by C. E. Spangler, McGraw-Hill, 1968.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	WATE, CHERRY & RYAN, INC. CONSULTING ENGINEERS 141 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 RETAINING WALL SECTIONS - I	DRAWN BY: R.L.D. TRACED BY: R.L.D. F.A.P. NO.: I-95-4/39/34 S.R.L. NO.: SC 246-36-915 BALTO. CITY NO.: 199B
		SCALE: As Shown	DES. BY: C.Y.T. CHK. BY: M.S.C. SHEET NO. (119) 8-7 of S-33
		DATE: MAY 11, 1973	

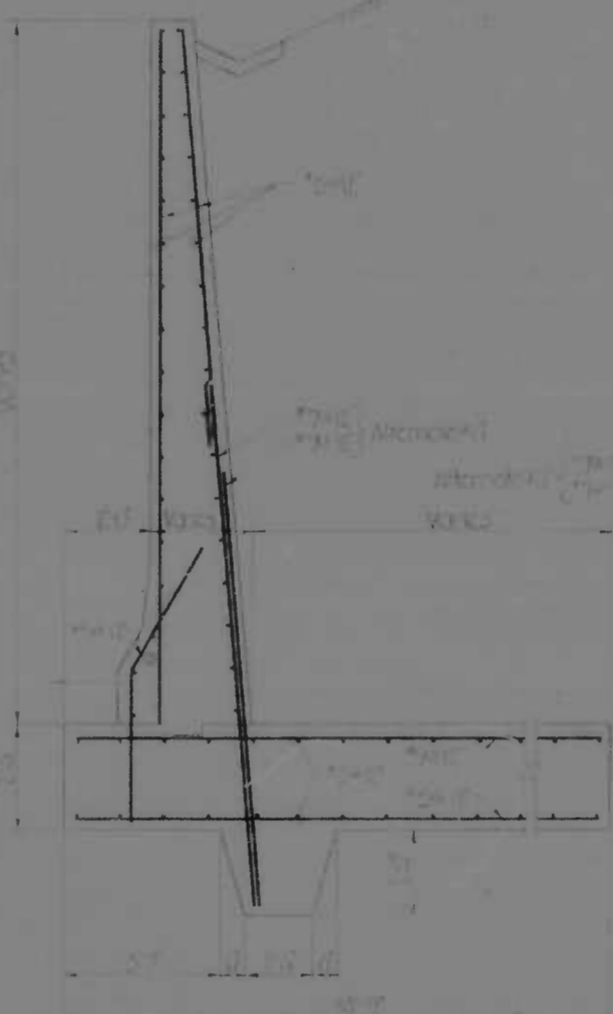
DES. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	5-8	5-33



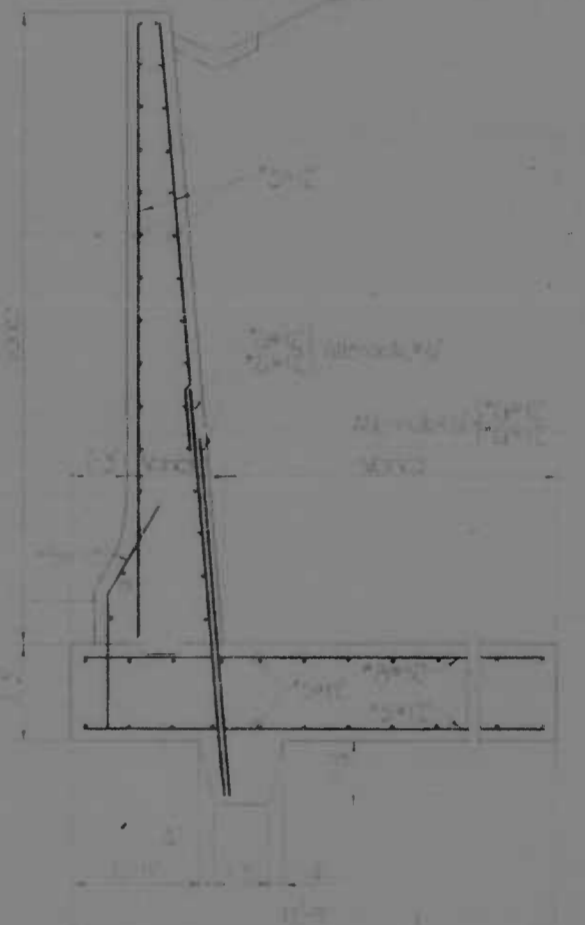
WALL SECTION WS-22



WALL SECTION WS-20

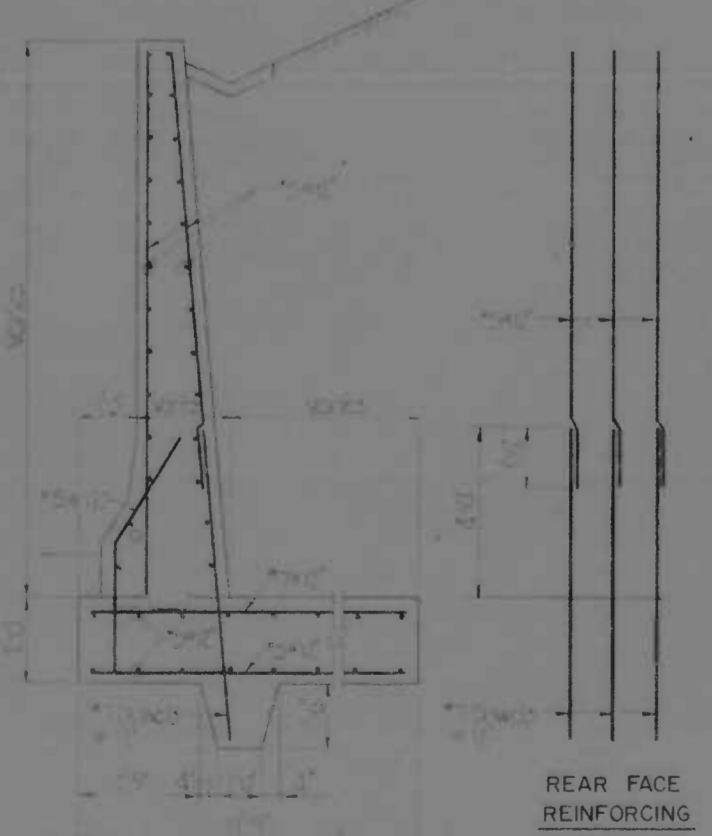


WALL SECTION WS-18

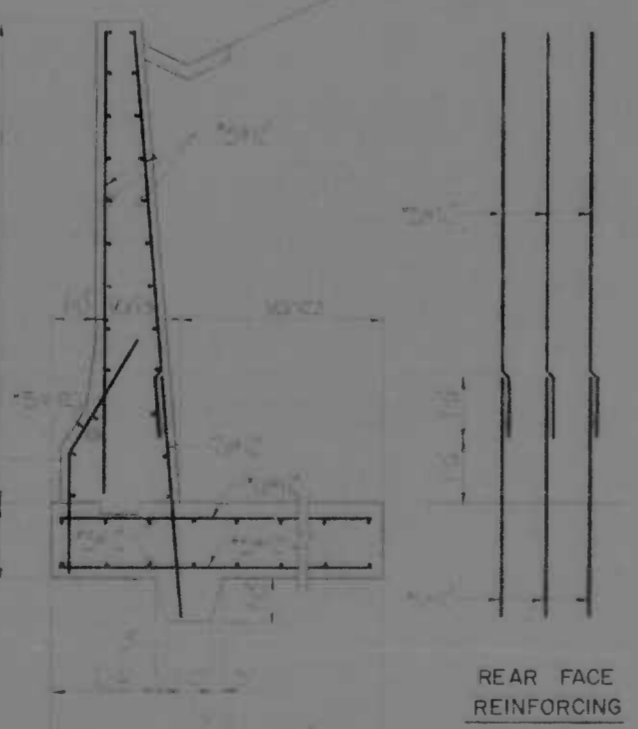


WALL SECTION WS-16

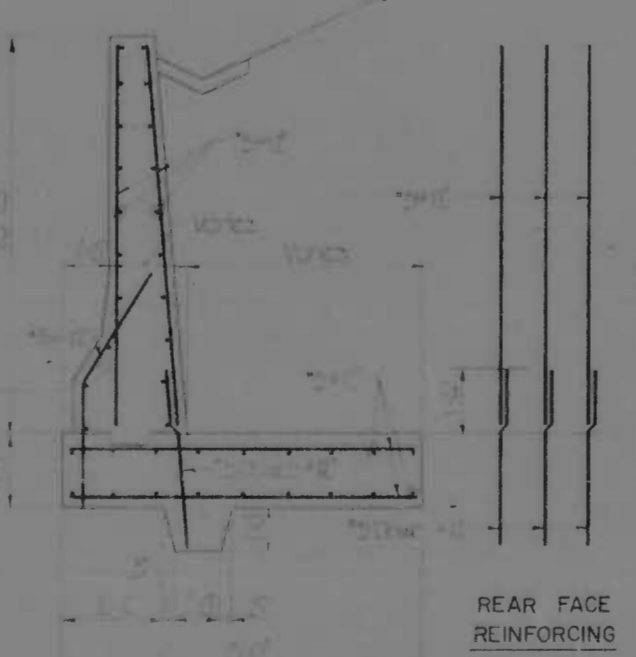
- Notes:
- All details shown on Wall Section WS-12 apply to all other sections unless otherwise shown.
 - For details of 1/2" x 1/4" CP Bars Reinforcing Wall See Elevation



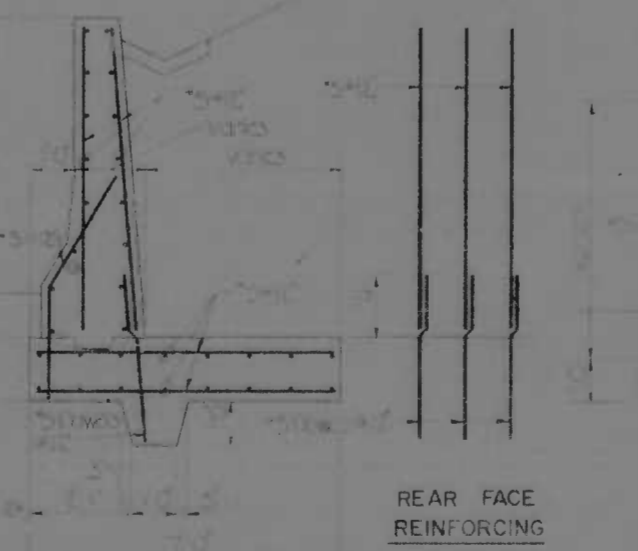
WALL SECTION WS-14



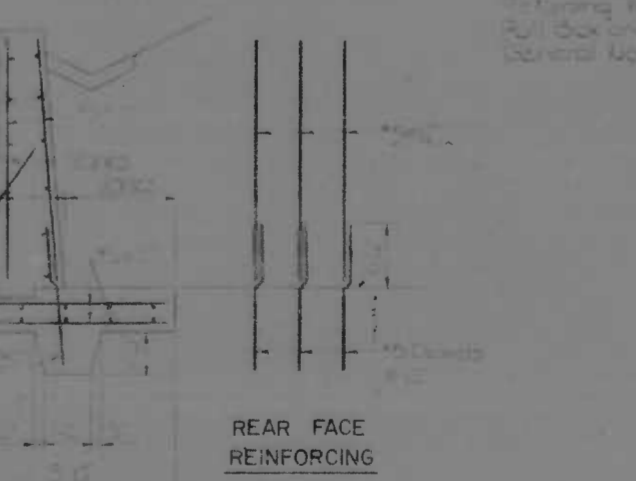
WALL SECTION WS-12



WALL SECTION WS-10



WALL SECTION WS-8



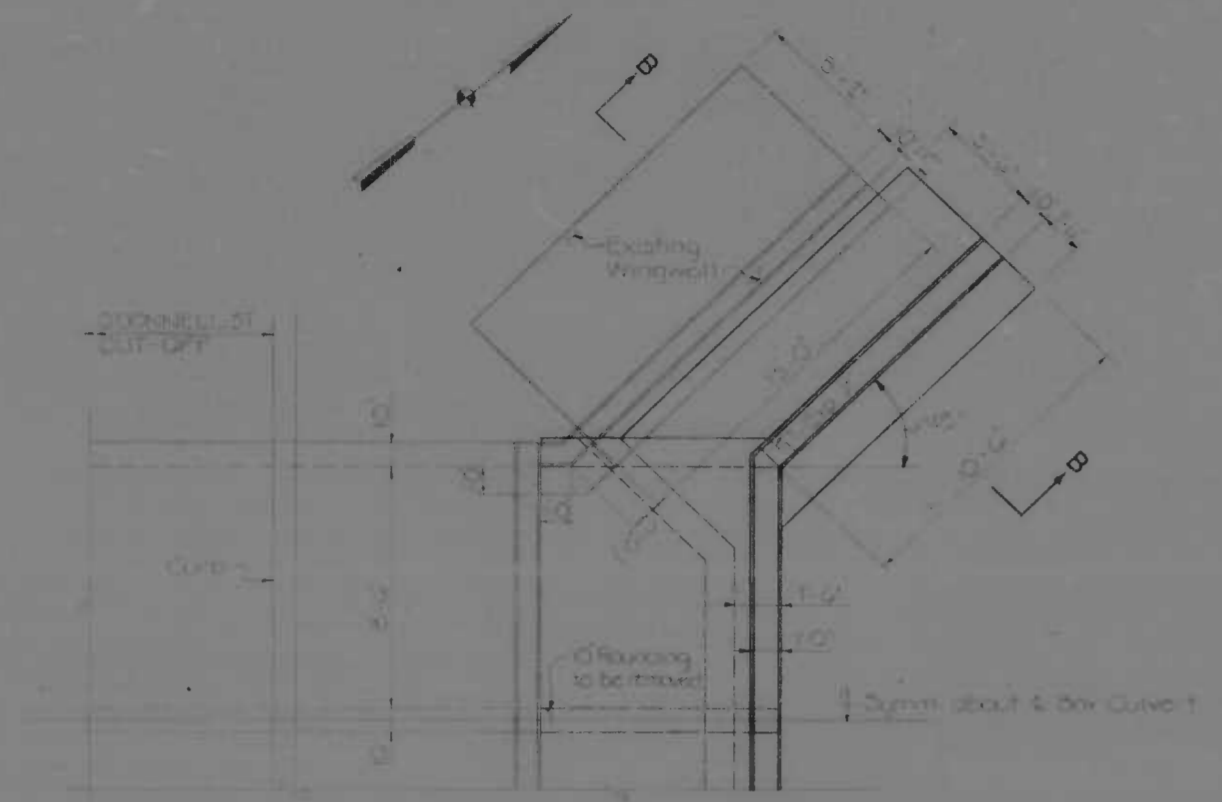
WALL SECTION WS-6

For design purposes, the foundation bearing pressure does not exceed 2.5 T.S.F.

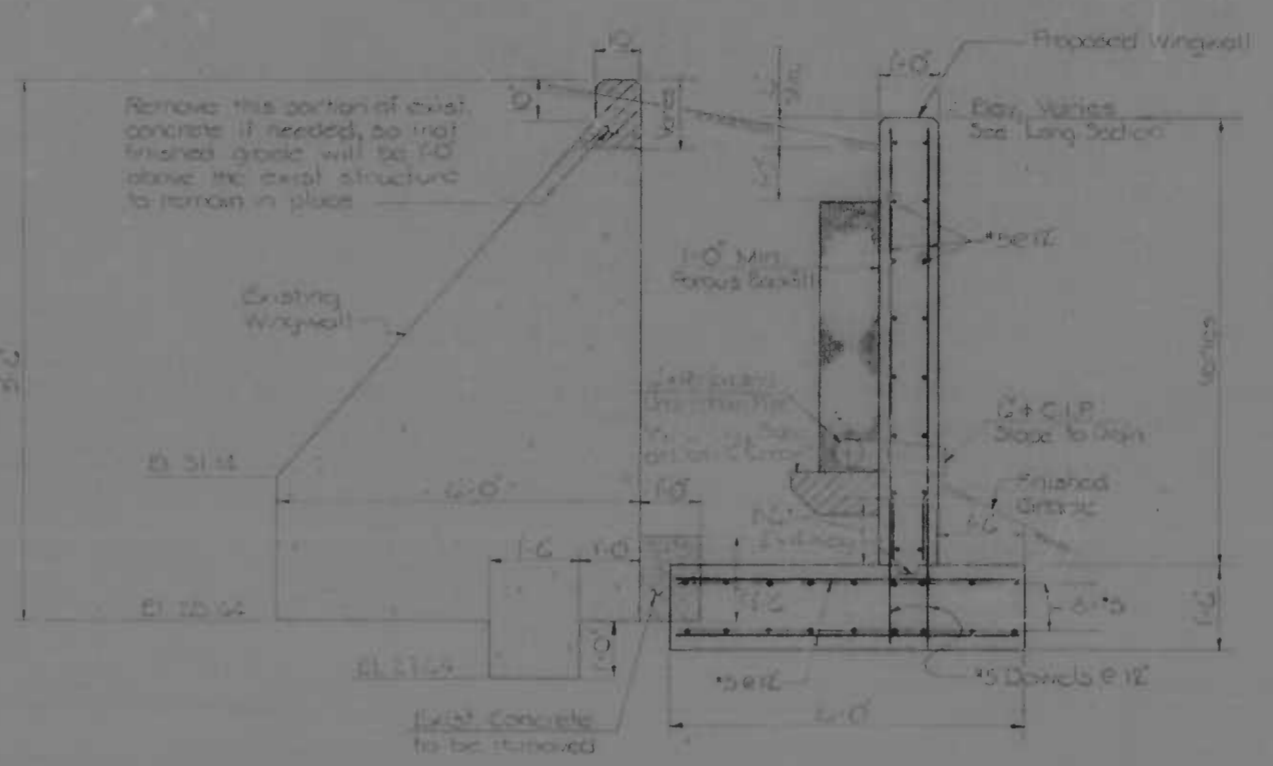
REVISIONS
 RETAINING WALL
 REINFORCING DETAILS
 GENERAL NOTES

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ANDERSON, BENDER, STONE & ASSOC., INC. AND WATL CHUBB & ASSOC., INC. CONSULTING ENGINEERS 304 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 RETAINING WALL SECTIONS - II	DRAWN BY: R.L.D. TRACED BY: P.L.D. F.P. NO.: I-95-4(39)34 S.R.C. NO.: BC 246.36-B16 BALTO. CITY NO. 1998
		SCALE: 3/8"=1'-0"	DES. BY: K.S.J. CHK. BY: M.S.C. SHEET NO.: 5-8 of 5-33
		DATE: MAY 11, 1973	

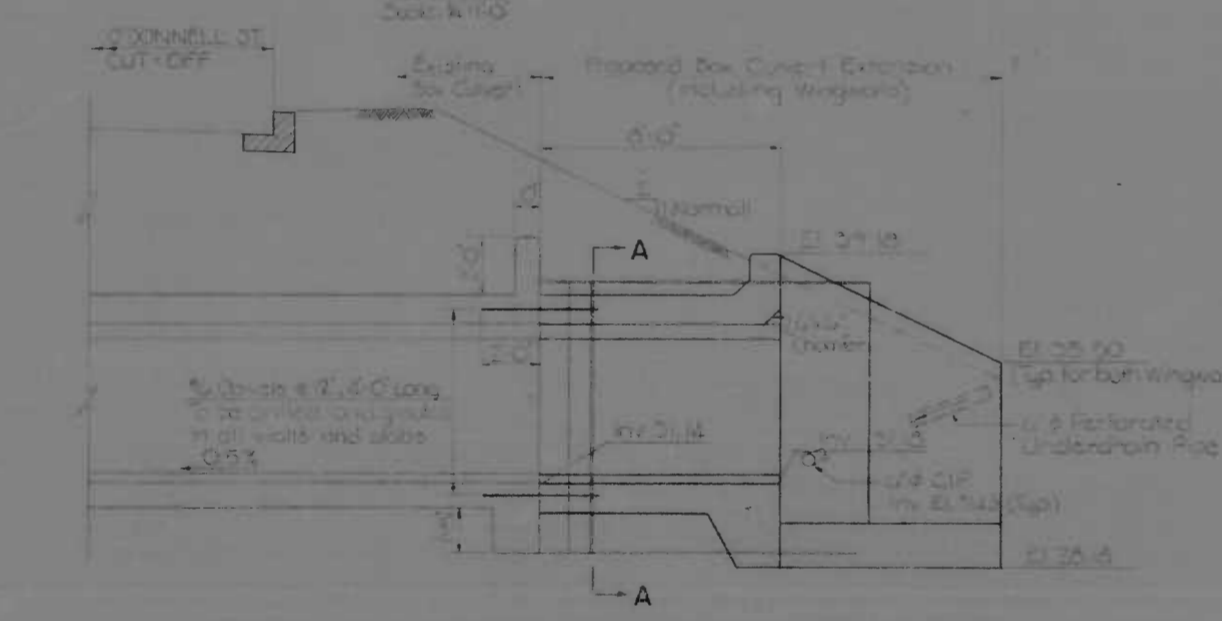
NO.	ROAD	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95	4(30)34	S-9	(119)
					5/33



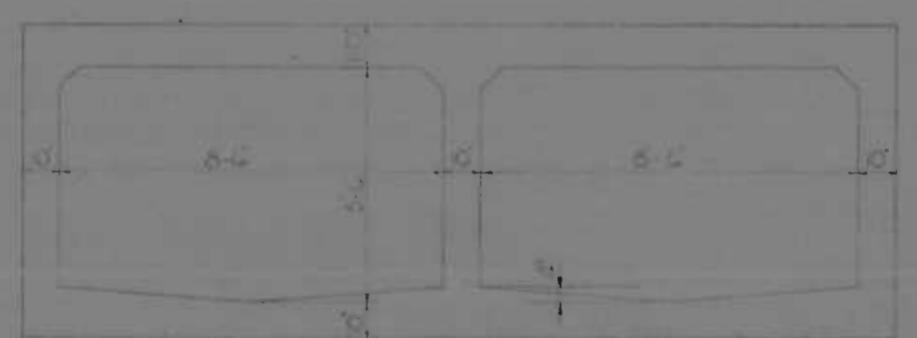
PLAN
Scale: 1/8" = 1'-0"



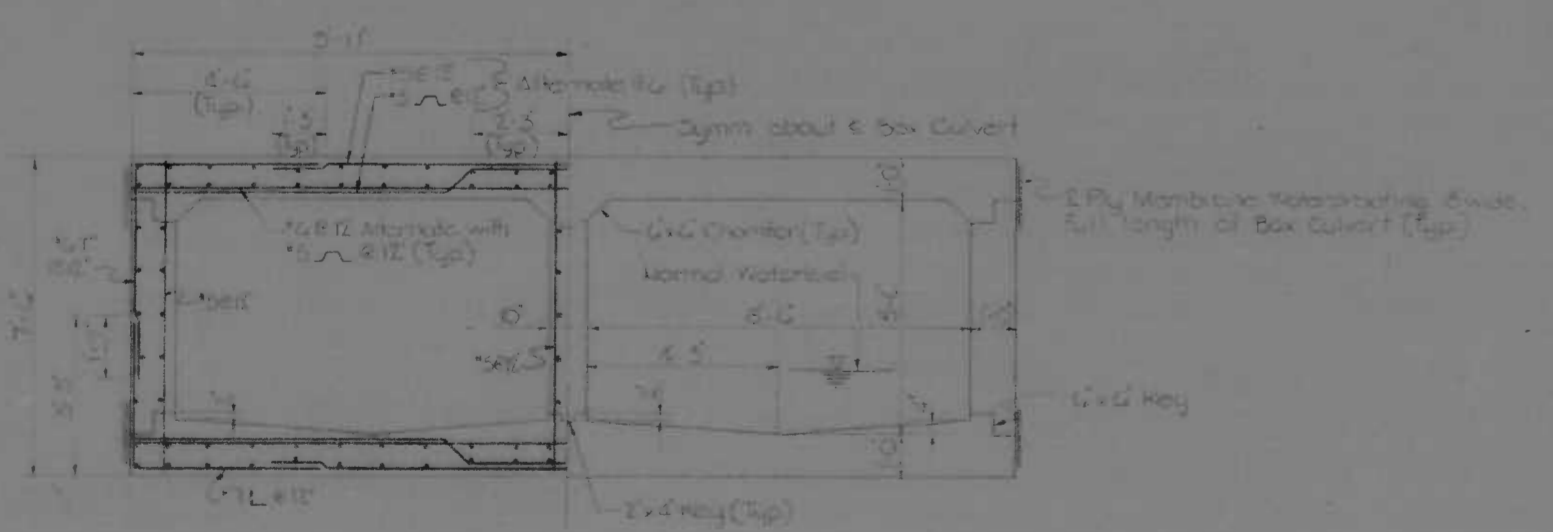
SECTION B-B
Scale: 1/8" = 1'-0"



LONGITUDINAL SECTION
Scale: 1/8" = 1'-0"



EXISTING BOX CULVERT SECTION
Scale: 1/8" = 1'-0"



SECTION A-A
Scale: 1/8" = 1'-0"

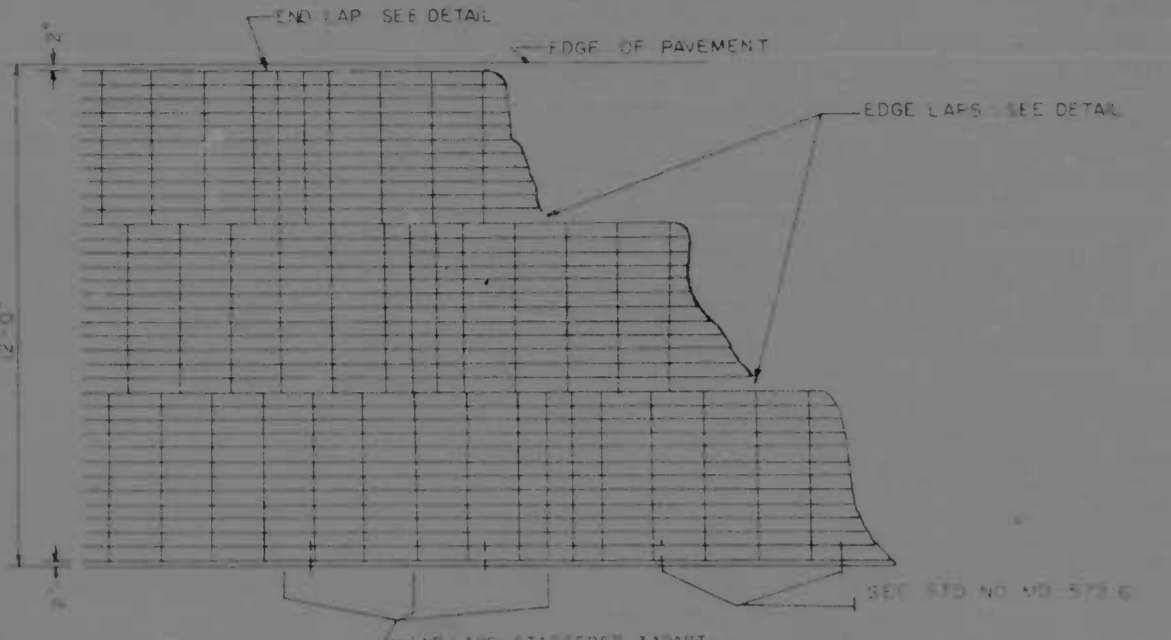
- GENERAL NOTES**
- SPECIFICATIONS: MARYLAND S.R.C. SPECIFICATIONS AND ERRATA TO SPECIFICATIONS DATED MARCH, 1968 FOR MATERIALS AND CONSTRUCTION; A.A.S.H.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1969 AND 1970; 1971 INTERIM SPECIFICATIONS FOR DESIGN.
 - LOADING: HS 20-44
 - CONCRETE: CLASS "A-1" CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS. SEE SPECIAL PROVISIONS.
 - REINFORCING STEEL: A.S.T.M. DESIGNATION A-615 GRADE 40. ALL SPLICES SHALL BE LAPPED A MINIMUM OF 24 BAR DIAMETERS. MINIMUM COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
 - CHAMFER: ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" x 3/4" WITH FILLED CHAMFER STRIPS UNLESS OTHERWISE NOTED.
 - SOIL BEARING PRESSURE: FOR DESIGN PURPOSES, MAXIMUM SOIL BEARING DOES NOT EXCEED 7 TON PER SQ. FT.
 - DAMP-PROOFING: SHALL BE APPLIED TO THOSE PORTIONS OF THE OUTSIDE SURFACE OF SIDE WALLS, TOP OF TOP SLAB, REAR FACES OF HEADWALL, SLOPEWALL AND WINGWALLS THAT ARE IN CONTACT WITH EARTH AND FULL FACE OF ALL CONTRACTION JOINTS.
 - MEMBRANE WATERPROOFING: APPLY TWO PLY MEMBRANE WATERPROOFING 10' WIDE, TO THE EARTH SIDE AND ABOVE THE NORMAL WATER SURFACE OF ALL CONSTRUCTION JOINTS WITH AIR ON ONE SIDE AND EARTH ON THE OTHER.
 - SOLID SODDING: A THREE FOOT STRIP SHALL BE LAID ADJACENT TO AND IN BACK OF ALL HEADWALLS, SLOPEWALLS, AND WINGWALLS.

HYDROLOGIC AND HYDRAULIC DATA

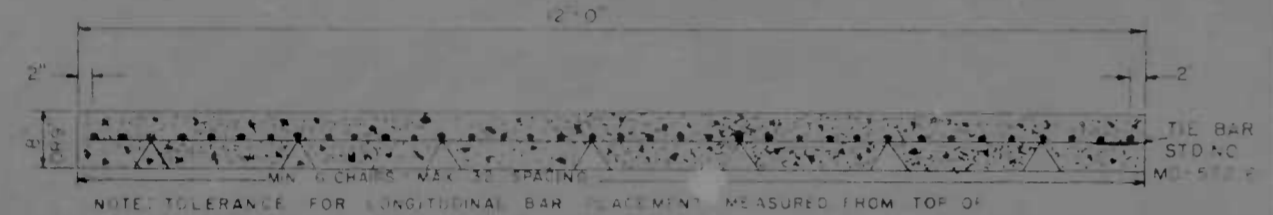
GAGING STATION	= NONE	
DRAINAGE AREA	= 0.345 SQ MI	= 221 ACRES
MAXIMUM DISCHARGE	NO RECORD	= cfs
MAXIMUM DISCHARGE OF RECORD	NO RECORD	= cfs
PROPOSED STRUCTURE		
DRAINAGE AREA	= 0.345 SQ MI	= 221 ACRES
STORM WATER DISCHARGE (For 25 Year Storm)	= cfs	= 345
TOTAL FLOW (From Volume Impounded up to High Tide Elevation)	= cfs	= 345
TOTAL MAXIMUM DISCHARGE	= cfs	= 345
MAXIMUM FLOW DEPTH AT H.W.	= FEET	= 2.25
OPENING		
OPENING TO H.W.	= SQ FT	= 91.6
VELOCITY AT OUTLET	= FT PER SEC.	= 9.0

REFERENCES: Miscellaneous Details
SHEET NO. 5-11

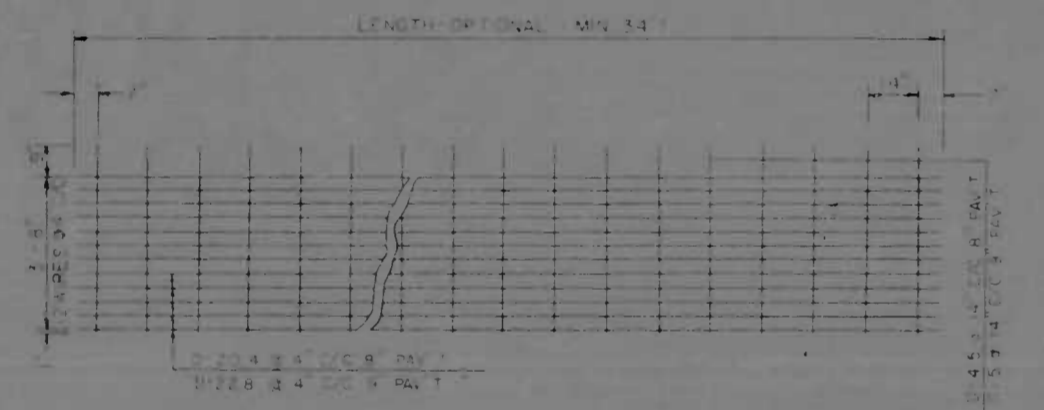
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	EXHIBIT, RENDAL STONE & ASSOC., INC. AND KATZ, CIRIO & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 BOX CULVERT EXTENSION AT O'DONNELL ST. CUT-OFF	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.P.R. NO. I-95-4(30)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
		SCALE: As Shown	DATE: MAY 11, 1973



PLAN
SCALE 3/8" = 1'-0"



TRANSVERSE SECTION
SCALE 3/4" = 1'-0"

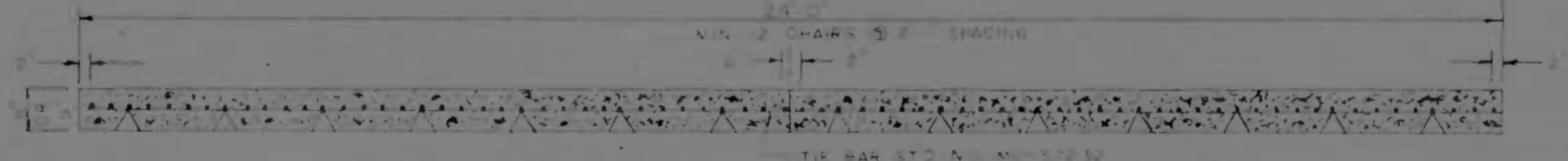


TYPICAL FABRIC SHEET
SCALE 3/8" = 1'-0"

NOTE: WELDED DEFORMED STEEL WIRE FABRIC FOR LONGITUDINAL AND TRANSVERSE WIRE SHALL MEET THE REQUIREMENTS OF A S.T.M. DESIGNATION A-457 FOR WELDED DEFORMED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT



PLAN
SCALE 3/8" = 1'-0"



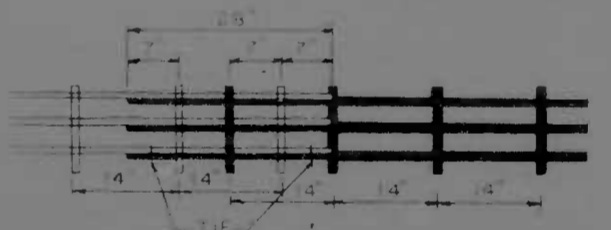
TRANSVERSE SECTION
SCALE 3/4" = 1'-0"

NOTE: THE SHEET OF WELDED DEFORMED STEEL WIRE FABRIC WHEN PRE-PLACED SHALL BE SUPPORTED IN POSITION BY CHAIR SUPPORTS OF ANY TYPE SATISFACTORY AND CAPABLE OF PROVIDING ADEQUATE SUPPORT AND THE CONCRETE PLACED THROUGH THE REINFORCING SHEETS OF WELDED DEFORMED STEEL WIRE FABRIC MAY BE PLACED WITH THE TRANSVERSE WIRE UP OR DOWN.



BULKHEAD JOINT AND LAP DETAIL
REINFORCEMENT BY MECHANICAL MEANS
SCALE 1/2" = 1'-0"

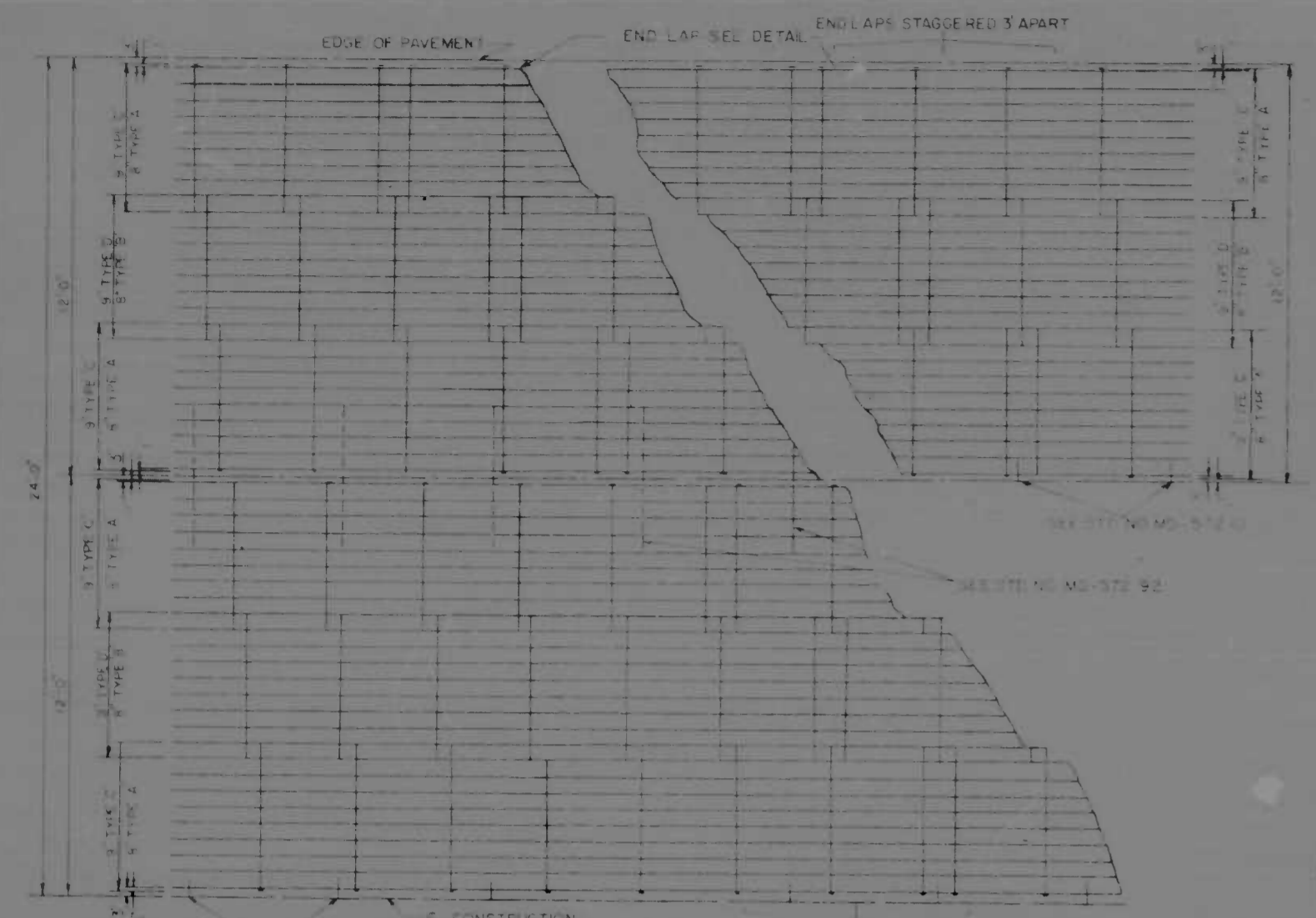
WHEN THE OPTION OF PLACING REINFORCEMENT BY MECHANICAL MEANS IS USED THE BAR OR WIRE FABRIC MATS SHALL BE DOUBLE LAPPED AS SHOWN ABOVE.
WHEN THE OPTION OF PLACING REINFORCEMENT ON CHAIRS OR CHAIR BARS IS USED THE BAR OR WIRE FABRIC MATS SHALL BE LAPPED AS SHOWN ON SHEET NO 13.



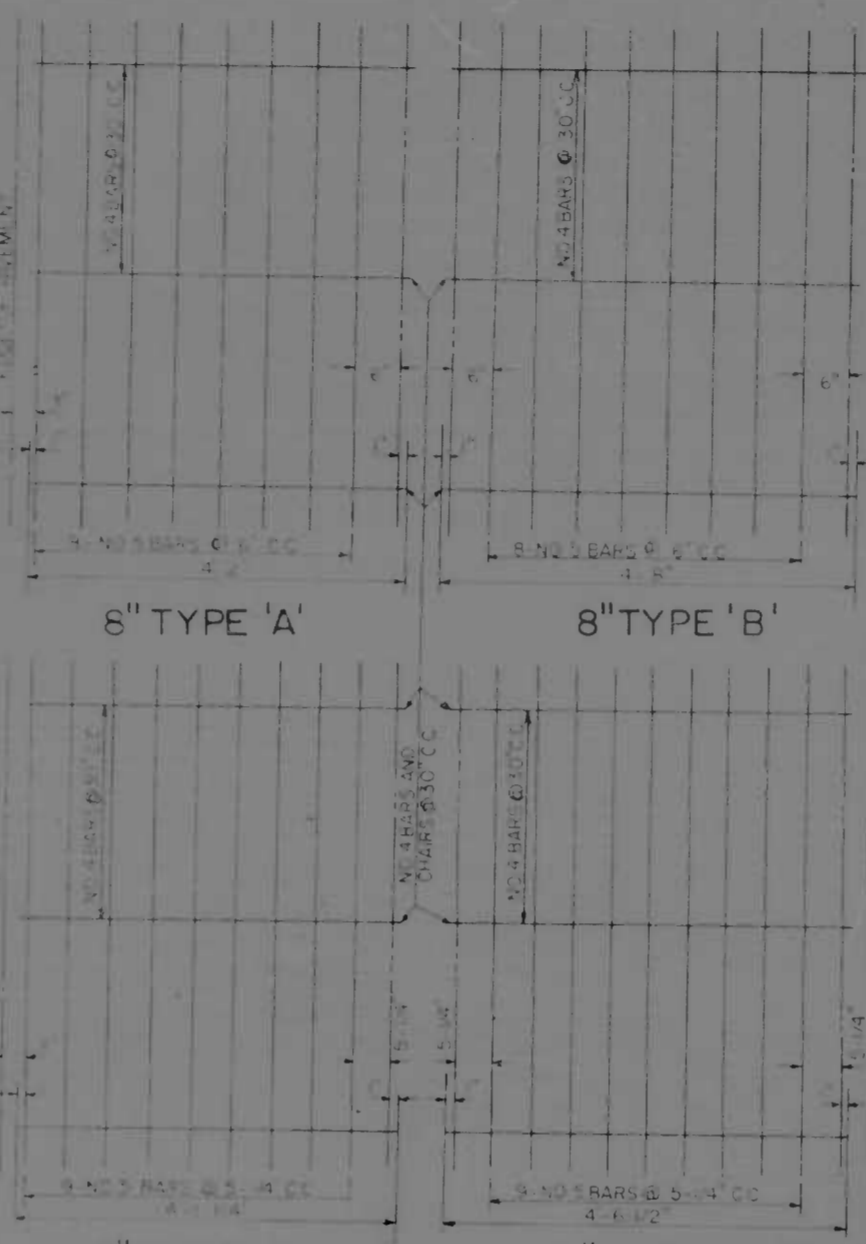
NOTE: MATS TO BE SECURELY FASTENED TO PREVENT SEPARATION DURING CONCRETE PLACEMENT. MINIMUM 8 TIES EACH MAT.

CONTINUOUSLY REINFORCED CONCRETE PAVEMENT
WELDED DEFORMED STEEL WIRE FABRIC REINFORCEMENT

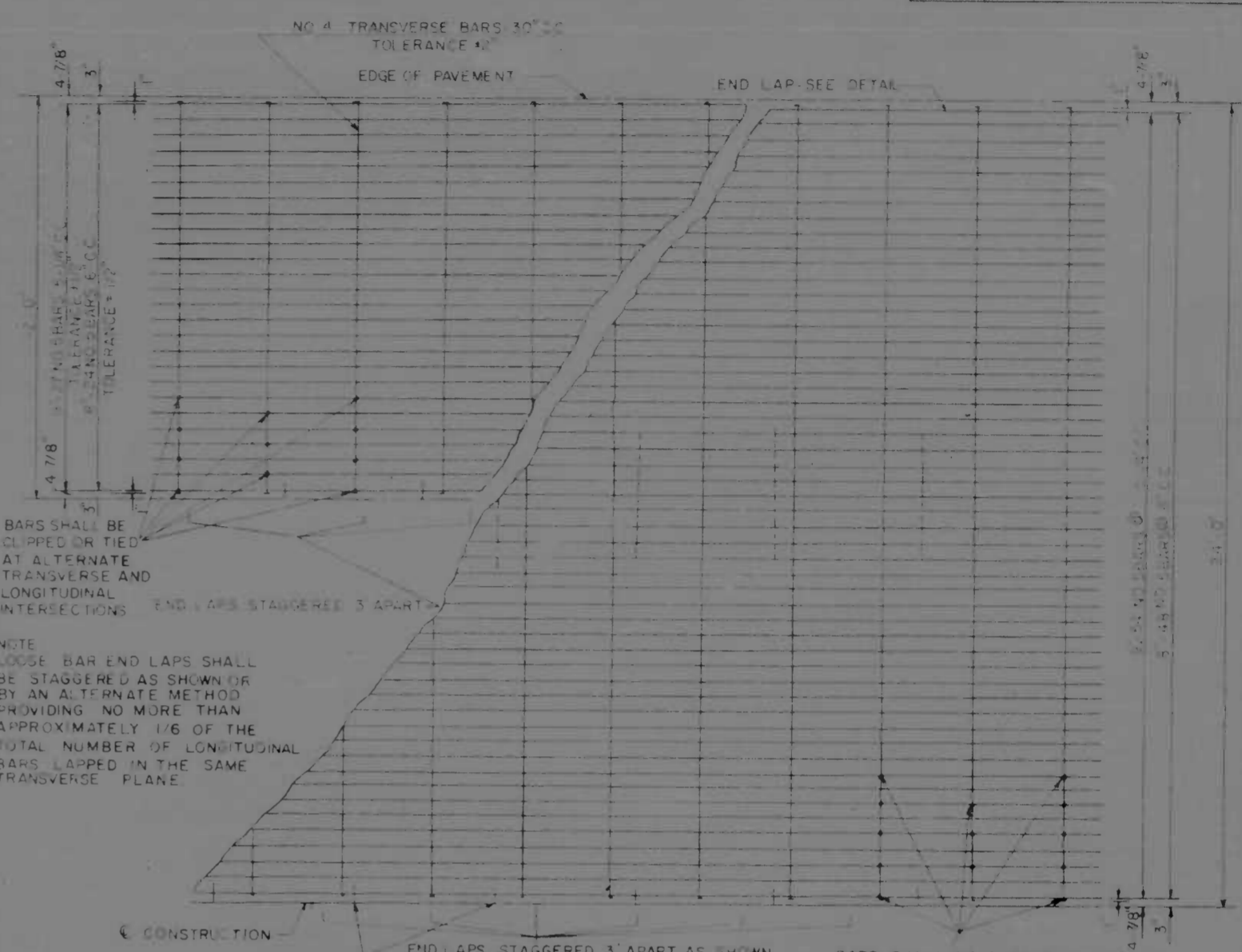
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET		DRAWN BY: IDBC	CHK BY: IDBC
		SCALE AS SHOWN		DATE: MAY 11, 1973	BALTO CITY NO. 1938
				FAP NO. 1-95-413104	SHEET NO. (119)
				ENC. NO. BC 246 36-815	T-10 OF T-13



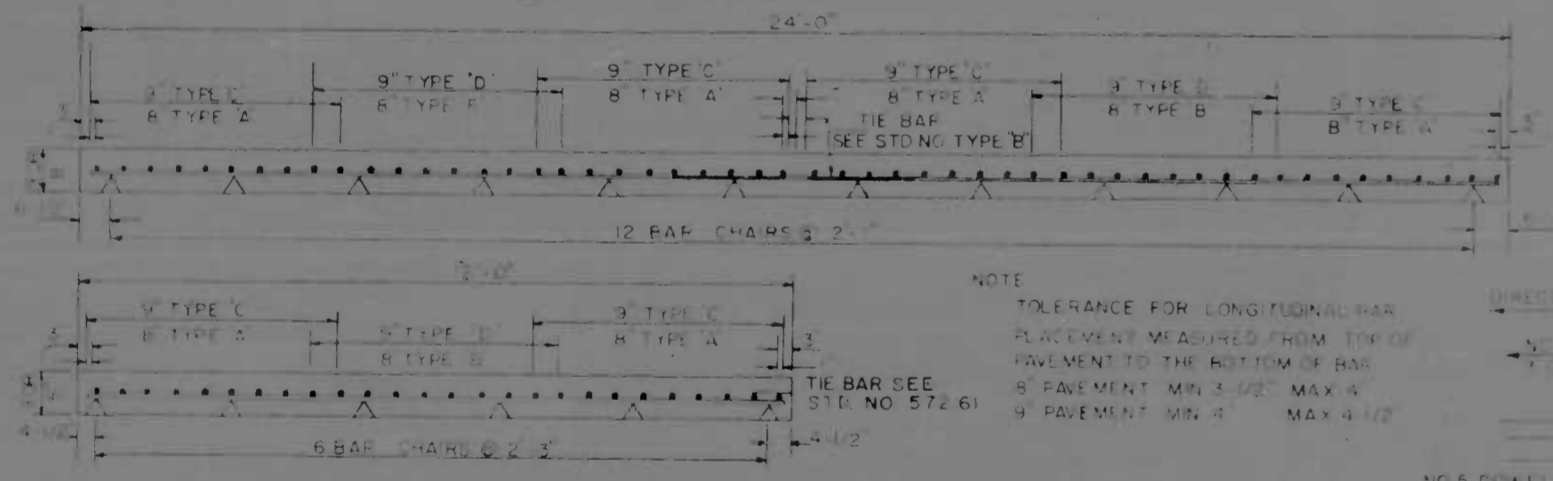
PLAN - BAR MATS
SCALE: 3/8" = 1'-0"
LENGTH OPTIONAL 36" MINIMUM



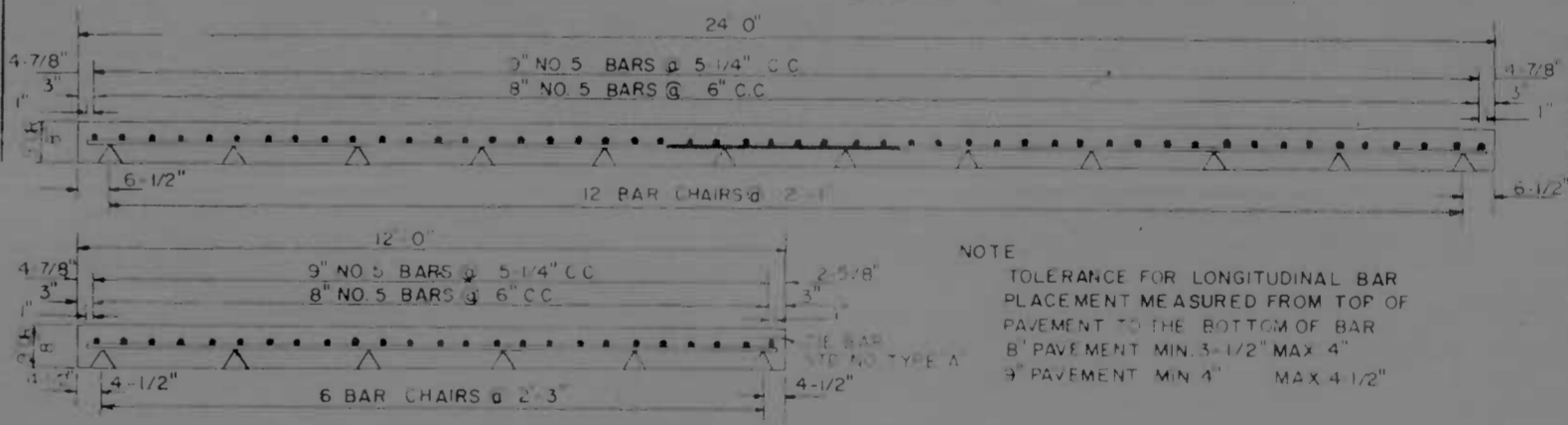
8" TYPE 'A' 8" TYPE 'B'
9" TYPE C 9" TYPE D
BAR MAT DETAILS
SCALE: 3/8" = 1'-0"



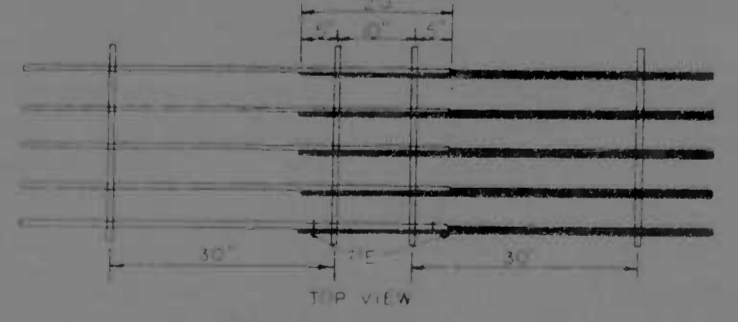
PLAN - LOOSE BARS
SCALE: 3/4" = 1'-0"



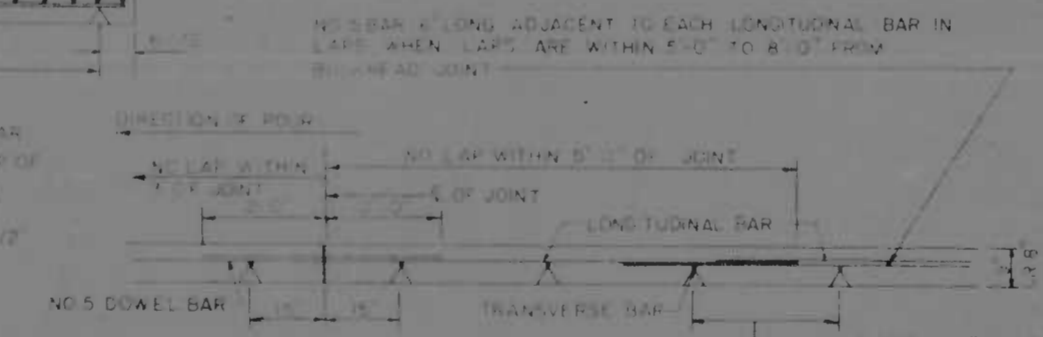
TRANSVERSE SECTION
SCALE: 1/2" = 1'-0"



TRANSVERSE SECTION
SCALE: 1/2" = 1'-0"

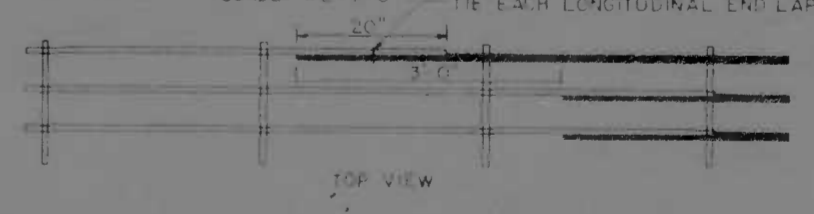


END LAP DETAIL
SCALE: 3/4" = 1'-0"



BULKHEAD JOINT AND LAP DETAIL
REINFORCEMENT ON CHAIRS
SCALE: 1/2" = 1'-0"

EDGE LAP DETAIL - BAR MATS
NOT TO SCALE



END LAP DETAIL
SCALE: 1/2" = 1'-0"

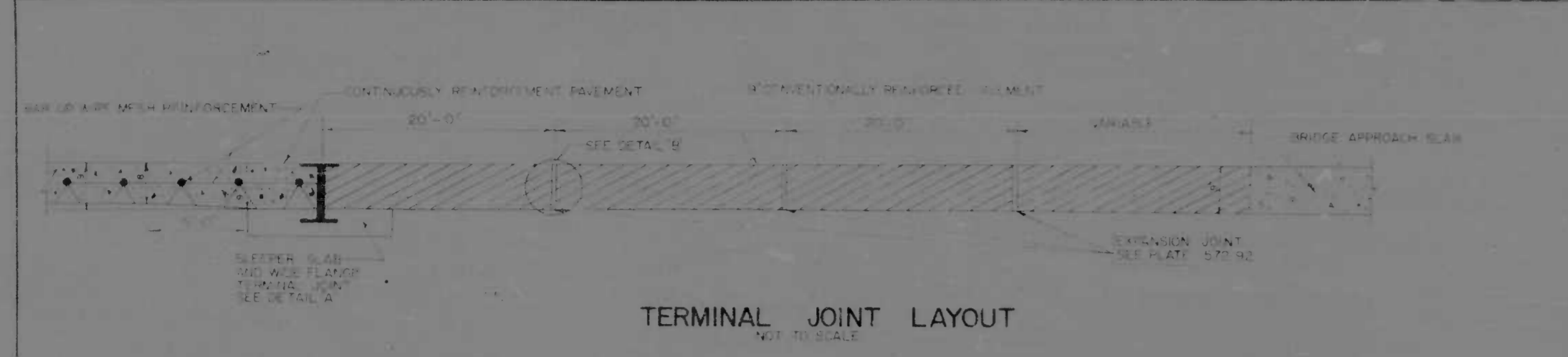
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT
BAR STEEL REINFORCEMENT

NOTE: DEFORMED STEEL BARS FOR LONGITUDINAL AND TRANSVERSE BAR MATS AND LOOSE BARS SHALL MEET THE REQUIREMENTS OF A ASTM DESIGNATION M-185 OR NO. 5 BARS AND A ASTM DESIGNATION M-31 FOR NO. 4 BARS. MATS TO BE SECURELY FASTENED TO PREVENT SEPARATION DURING CONCRETE PLACEMENT. MIN. 6 TIES EACH MAT.

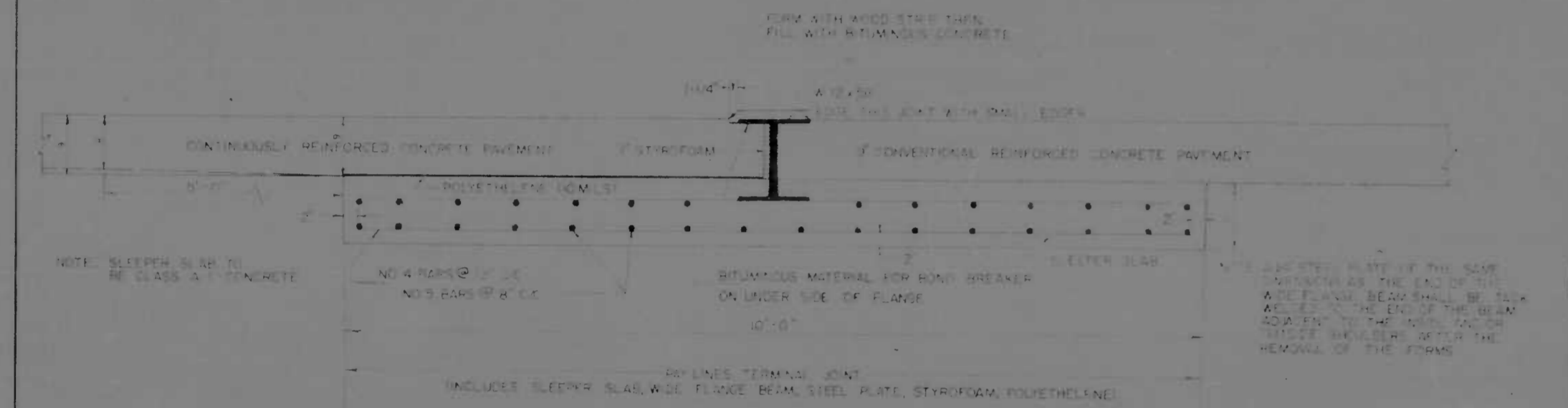
NOTE: THE CONTRACTOR MUST SUBMIT THE METHOD FOR SUPPORTING THE BARS TO BE APPROVED BY THE ENGINEER BEFORE ANY WORK IS PERFORMED UNDER THIS ITEM. THIS PLAN SHEET IS A STANDARD SHEET AND ONLY THOSE PORTIONS WHICH PERTAIN TO LOOSE BARS, SHALL BE USED FOR THIS CONTRACT. LONGITUDINAL TIE-BARS WILL BE REQUIRED.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: IDBC CHECKED BY: IDBC DATE: MAY 11, 1973

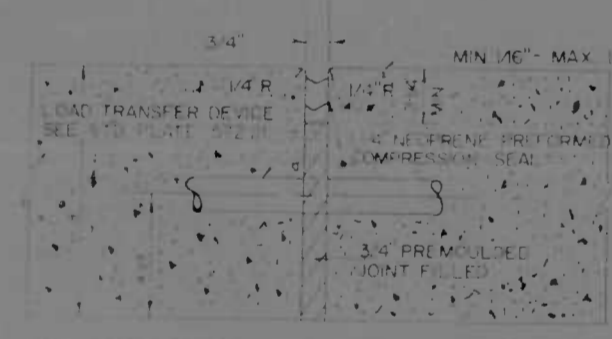
MD, E-95, W39134, T-12, (119)
T-13



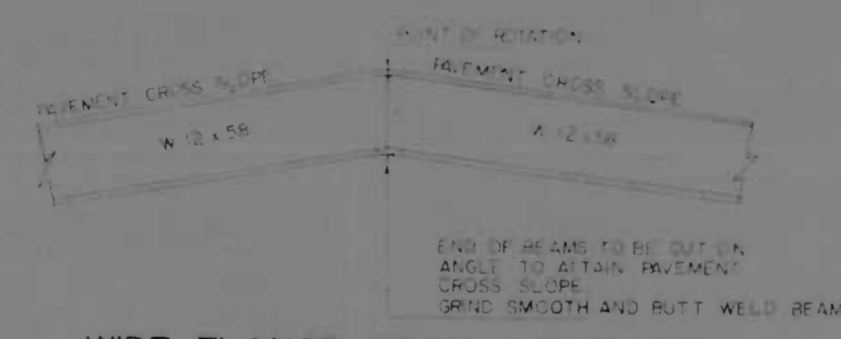
TERMINAL JOINT LAYOUT
NOT TO SCALE



DETAIL 'A'
SLEEPER SLAB AND WIDE FLANGE TERMINAL JOINT
SCALE 1" = 1'-0"

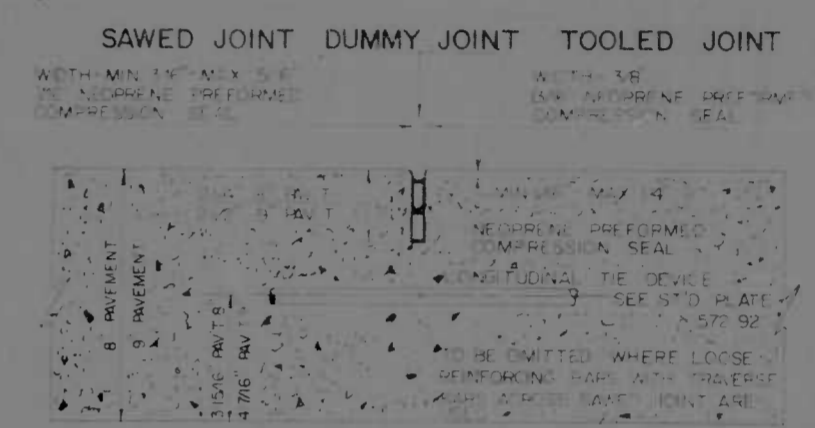
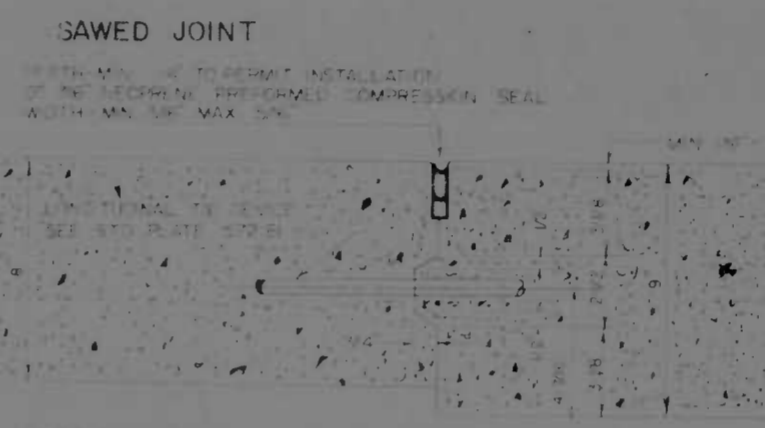
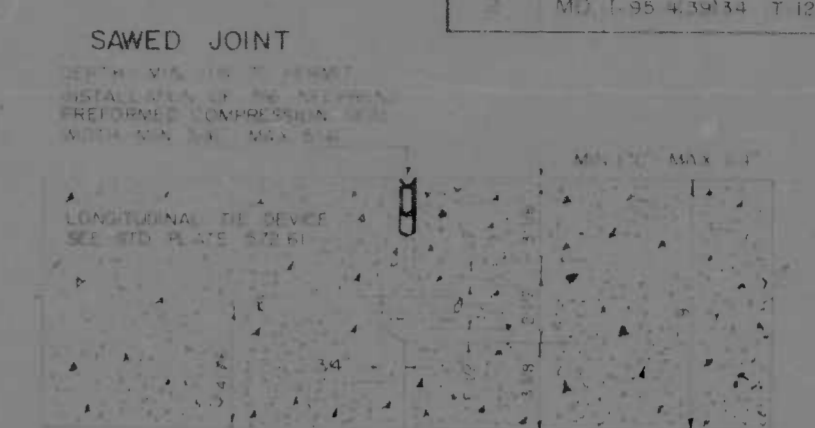
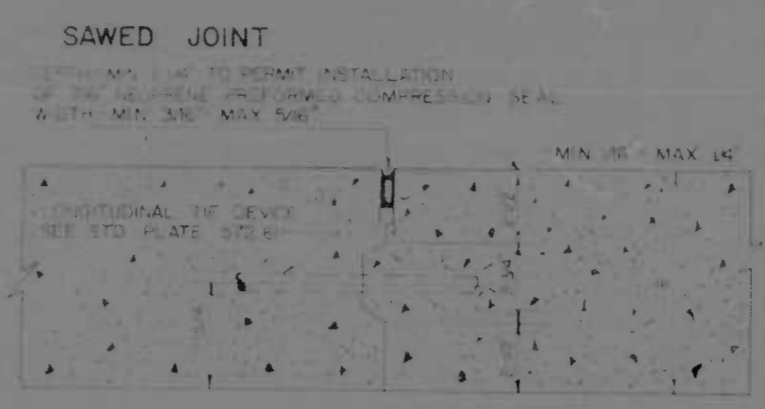


EXPANSION JOINT DETAIL 'B'
SCALE 3" = 1'-0"

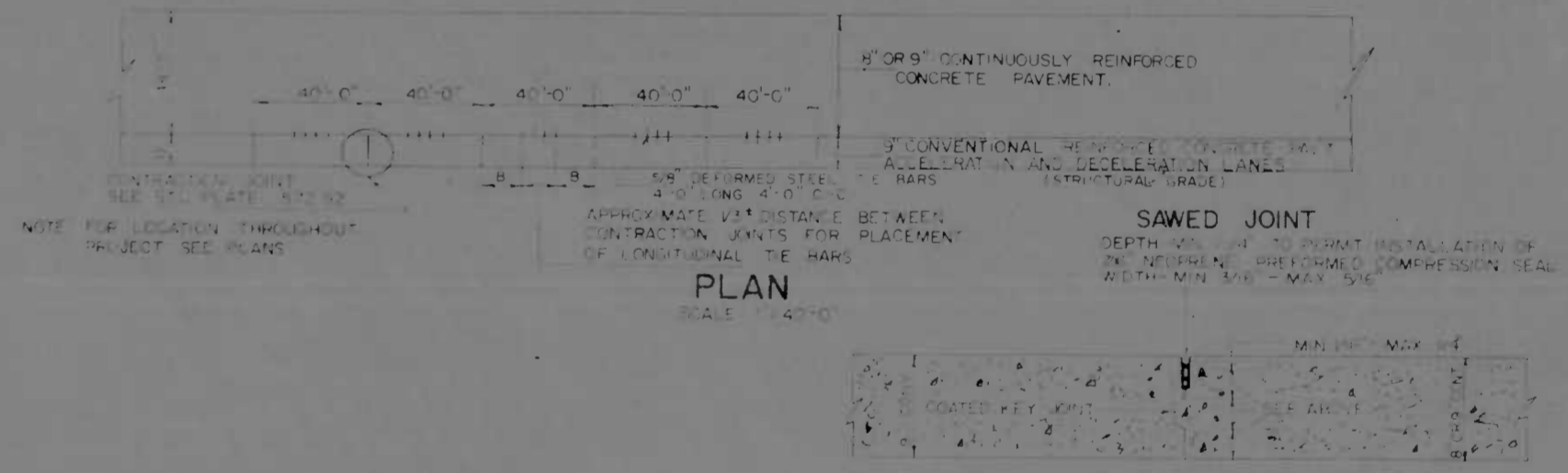


WIDE FLANGE BEAM ANGLE TIE
NOT TO SCALE

TERMINAL JOINT
BAR MATS, BARS, WIRE FABRIC



DETAILS OF LONGITUDINAL CONSTRUCTION JOINTS
SCALE 3/4" = 1'-0"



NOTE: DISTANCE BETWEEN CONTRACTION JOINTS WITH BITUMINOUS MATERIAL AS DIRECTED IN APPROXIMATE 1/3 DISTANCE BETWEEN CONTRACTION JOINTS. NO TIE BARS WILL BE PLACED WITH THIS DISTANCE.

9" CONVENTIONAL REINFORCED CONCRETE PAVEMENT
ADJACENT TO 8' OR 9' CONTINUOUSLY REINFORCED CONCRETE PAVEMENT

CONTINUOUSLY REINFORCED CONCRETE PAVEMENT JOINT DETAILS

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	DR. JAMES H. HARRIS, JR.	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DES BY I.D.B.C. CHK BY I.D.B.C.
	WILLIAM H. HARRIS, JR.	SCALE AS SHOWN	DATE MAY 11, 1973
			DRAWN BY G.D. - I.C.B. TRACED BY G.D. - I.C.B. F.R. NO. E-95-413933A E.R. NO. BC 246-36-815 BALTO. CITY NO. 1998
			SHEET NO. (119) T-12 OF T-13

SUPERELEVATION DATA

I-95 S.B.R.									
STATION	I-83 N TAPER		65' LT.	53' LT.	41' LT.	29' LT.	17' LT. PGE & P/R	REMARKS	
	OFFSET	ELEV.							
P.C.C. 295+26.02	77.00	67.19	66.52	65.85	65.18	64.51	63.83	MID-WAY IN S.F. TRANS.	
295+50.00	77.00	67.17	66.50	65.83	65.16	64.49	63.81	END S.E. TRANS.	
FULL SUPERELEVATION = 0.054 FT./FT. RT.									
300+26.02	77.00	75.10	74.46	73.81	73.14	72.51	71.86	BEGIN I-83 N TAPER	
302+90.94	71.67	80.10	79.74	79.09	78.45	77.80	77.15	BEGIN S.E. TRANS.	
303+00	71.63	80.19	79.84	79.20	78.56	77.93	77.29		
304+25	71.03	80.49	80.18	79.58	78.98	78.38	77.78		
304+50	70.53	80.79	80.51	79.96	79.40	78.84	78.24		
P.C.C. 305+76.02	70.00	81.11	80.87	80.35	79.83	79.31	78.79	C=0.000 13 1/2 FT.	
304+00	69.52	81.40	81.19	80.71	80.23	79.75	79.27		
304+25	69.02	81.71	81.53	81.09	80.65	80.21	79.76		
304+50	68.52	82.01	81.87	81.47	81.06	80.66	80.24		
304+75	68.02	82.31	82.21	81.85	81.48	81.12	80.75		
305+00.63	67.51	82.63	82.56	82.23	81.91	81.59	81.26	END S.E. TRANS.	
FULL SUPERELEVATION = 0.027 FT./FT. RT.									
305+26.02	67.00	83.11	83.06	82.74	82.41	82.09	81.76	END I-83 N TAPER	
313+17.95		95.31	94.99	94.67	94.34	94.02	93.69	BEGIN S.E. TRANS.	
P.C.C. 313+36.02		95.33	95.05	94.76	94.47	94.18	93.88	C=0.00031 1/2 FT.	
313+59.10		95.34	95.09	94.84	94.54	94.24	93.94	END S.E. TRANS.	
FULL SUPERELEVATION = 0.021 FT./FT. RT.									

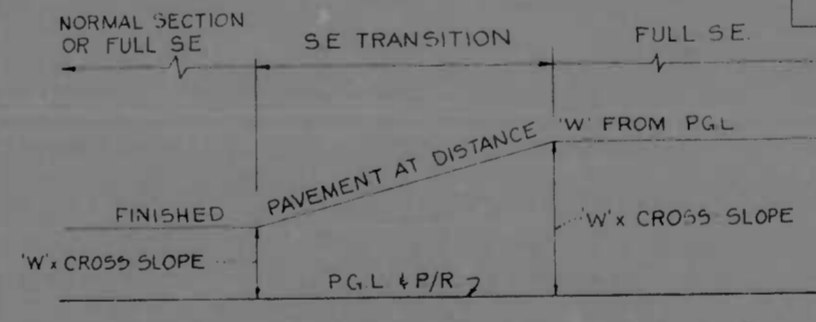
I-95 N.B.R.									
STATION	17' RT. PGE & P/R	29' RT.	41' RT.	53' RT.	65' RT.	77' RT.	TAPERS		REMARKS
							OFFSET	ELEV.	
FULL SUPERELEVATION = 0.058 FT./FT. RT.									
292+41.02	64.10	63.41	62.71	62.01	61.32	60.62	59.96	BEGIN RAMP "K" TAPER	
295+10.02	63.28	63.05	62.35	61.65	60.96	60.26	59.61	BEGIN S.E. TRANS.	
P.C.C. 295+26.02	63.83	63.16	62.49	61.82	61.15	60.47	59.80	C=0.00013 1/2 FT.	
295+50.02	63.99	63.29	62.64	61.99	61.34	60.69	59.99	END S.E. TRANS.	
FULL SUPERELEVATION = 0.056 FT./FT. RT.									
301+41.02	74.14	73.49	72.85	72.20	71.55	70.90	70.29	END RAMP "K" TAPER	
302+92.94	77.15	76.50	75.85	75.21	74.56	73.91		BEGIN S.E. TRANS.	
303+00	77.29	76.65	76.01	75.38	74.74	74.10			
303+25	77.85	77.19	76.59	75.99	75.39	74.79			
303+50	78.28	77.72	77.16	76.60	76.04	75.48		C=0.00031 1/2 FT.	
P.C.C. 303+76.02	78.79	78.28	77.76	77.24	76.72	76.20			
304+00	79.27	78.79	78.31	77.82	77.34	76.86			
304+22.40	79.71	79.27	78.82	78.37	77.93	77.48	77.00	BEGIN RAMP "J" TAPER	
304+50	80.26	79.86	79.45	79.05	78.65	78.24	77.84		
304+75	80.75	80.39	80.03	79.66	79.30	78.93	78.56		
305+00.63	81.26	80.94	80.61	80.29	79.97	79.64	79.55	END S.E. TRANS.	
FULL SUPERELEVATION = 0.027 FT./FT. RT.									
310+72.40	91.57	91.24	90.92	90.59	90.27	89.95	89.54	BEGIN RAMP "J" TAPER	
311+17.95	94.02	93.69	93.37	93.05	92.72	92.40		BEGIN S.E. TRANS.	
P.C.C. 313+36.02	94.18	93.89	93.61	93.32	93.03	92.74			
313+59.10	94.34	94.08	93.83	93.58	93.33	93.08		END S.E. TRANS.	
FULL SUPERELEVATION = 0.021 FT./FT. RT.									

I-83 N									
STATION	RAMP 'L' TAPER OFFSET	ELEV.	24' LT.	12' LT.	CONST. PGL & P/R	REMARKS			
						FULL SUPERELEVATION = 0.056 FT./FT. RT.			
286+31.53	18.65	73.82	73.41	72.74	72.07	BEGIN RAMP "L" TAPER			
TAPER SUPERELEVATION = 0.0277 FT./FT. RT. & TAPER S.E. TRANS.									
286+50	18.28	73.72	73.28	72.61	71.94				
286+75	17.78	73.58	73.10	72.43	71.75	TAPER C=0.00031 1/2 FT.			
287+00	17.28	73.45	72.90	72.53	71.55				
287+25	16.78	73.26	72.68	72.01	71.34				
287+50	16.28	73.07	72.41	71.78	71.11				
287+75.02	15.82	72.89	72.23	71.56	70.89	END TAPER S.E. TRANS.			
TAPER SUPERELEVATION = 0.056 FT./FT. RT.									
287+93.02	15.42	72.67	72.03	71.35	70.68	BEGIN SHOUL.			
287+95.02	15.42	72.44	72.03	71.35	70.68	BEGIN SHOUL.			
288+65.72	14.10	71.25	70.76	70.29	69.62	BEGIN S.E. TRANS.			
289+00	13.74	70.96	70.72	70.08	69.43				
P.C.C. 289+35.13	13.37	70.31	70.11	69.54	68.97	C=0.00031 1/2 FT.			
289+50	12.90	70.02	69.84	69.54	68.76	C=0.00031 1/2 FT.			
289+75	12.47	69.53	69.39	68.91	68.42				
290+00	12.05	69.00	68.91	68.47	68.03				
290+09.25	11.69	68.80	68.73	68.31	67.89	END S.E. TRANS.			
END RAMP "L" TAPER									
FULL SUPERELEVATION = 0.035 FT./FT. RT.									
292+41.02		66.53	66.11	65.69		BEGIN S.E. TRANS.			
293+00		66.61	66.17	65.63		C=0.00031 1/2 FT.			
293+25		66.71	66.17	65.62		C=0.00031 1/2 FT.			
293+50		66.84	66.24	65.65					
293+75		66.99	66.35	65.70					
294+00		67.16	66.45	65.79		CHANGE TRANS. RATE			
P.C.C. 294+15.13		67.19	66.52	65.83		C=0.00031 1/2 FT.			
BEGIN S.B.R. I-95									

RAMP 'L'				
STATION	CONST. PGL & P/R	28' RT.	REMARKS	
FULL SUPERELEVATION = 0.025 FT./FT. RT.				
27+75	39.22	38.59	BEGIN S.E. TRANS.	
28+00	39.21	38.65		
28+25	39.26	38.86		
28+50	39.39	39.11	END S.E. TRANS.	
WARP AS REQUIRED TO MEET O'DONNELL STREET				

RAMP 'J'				
STATION	CONST. PGL & P/R	15' RT.	REMARKS	
FULL SUPERELEVATION = 0.019 FT./FT. RT.				
P.C. 4+73.28	89.96	89.59	BEGIN S.E. TRANS.	
4+90	90.28	89.99	C=0.00031 1/2 FT.	
4+13.28	90.80	90.19	END S.E. TRANS.	
FULL SUPERELEVATION = 0.019 FT./FT. RT.				
9+30	92.77	92.33	BEGIN S.E. TRANS.	
P.T. 10+50	92.70	92.39	C=0.00031 1/2 FT.	
10+10	92.60	92.33	END S.E. TRANS.	
NORMAL SECTION				

TEMPORARY CONNECTION				
STATION	24' LT.	CONST. PGL & P/R	REMARKS	
FULL SUPERELEVATION = 0.045 FT./FT. RT.				
10+77.38	40.35	40.76	BEGIN S.E. TRANS.	
11+00	40.43	40.33		
11+25	41.26	41.05		
11+50	42.30	41.95		
11+75	43.50	43.03		
12+00	44.88	44.70	C=0.0002 1/2 FT.	
12+25	46.44	45.74		
12+50	48.19	47.36		
12+75	50.02	49.07		
13+00	51.85	50.79		
13+03.30	52.09	51.01	END S.E. TRANS.	

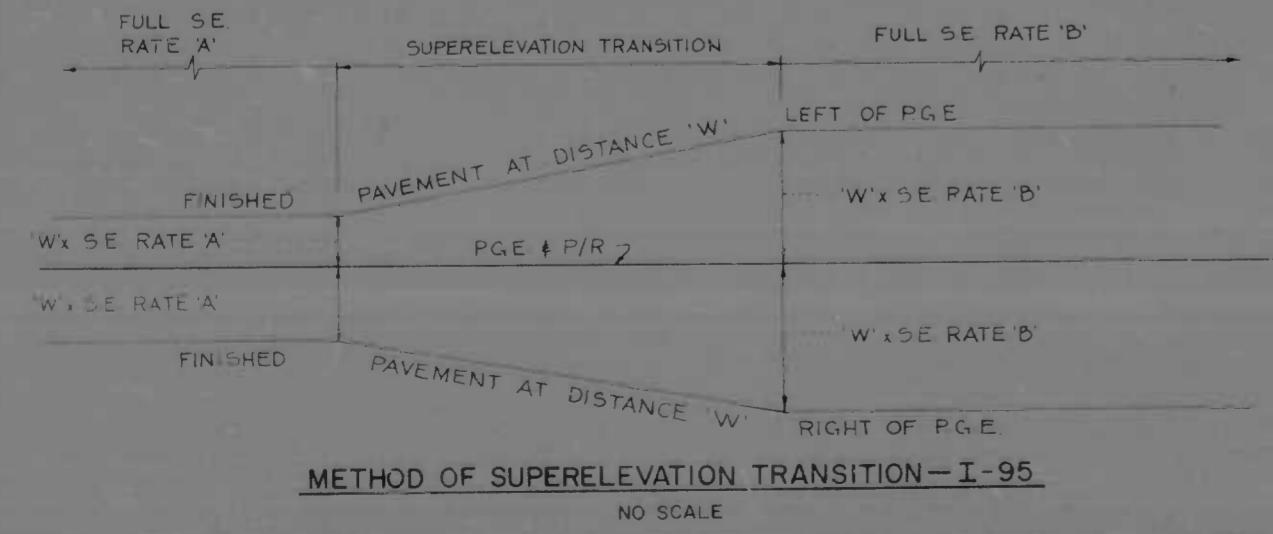


METHOD OF SUPERELEVATION TRANSITION
I-83N & TEMPORARY CONNECTION
NO SCALE

RAMP 'K'				
STATION	CONST. PGL & P/R	RT.	ELEV.	REMARKS
WARP TO MEET O'DONNELL STREET				
5+81.84	40.31	24.00	40.53	BEGIN S.E. TRANS.
6+00	40.98	24.00	41.11	
P.C. 6+21.18	41.98	24.00	42.01	
6+50	43.70	19.41	43.62	
6+75	45.28	18.91	45.11	
7+00	46.86	18.42	46.60	
7+21.18	48.20	18.00	47.86	
7+50	50.02	17.42	49.40	C=0.0002 1/2 FT.
P.C.C. 7+76.24	51.65	16.90	51.18	
8+00	53.18	16.82	52.62	
8+21.18	54.46	16.00	53.84	
8+50	56.00	15.42	55.35	
8+71.18	57.06	15.60	56.36	
9+00	58.31	15.00	57.69	
9+16.60	58.94	15.00	58.07	END S.E. TRANS.
FULL SUPERELEVATION = 0.058 FT./FT. RT.				



METHOD OF SUPERELEVATION TRANSITION
RAMPS 'K', 'L', & 'J'
NO SCALE



METHOD OF SUPERELEVATION TRANSITION—I-95
NO SCALE

NORMAL SECTION = 0.02 FT./FT.				
STATION	24' LT.	CONST. PGL & P/R	REMARKS	
FULL SUPERELEVATION = 0.045 FT./FT. RT.				
13+66.42	54.21	55.83	BEGIN S.E. TRANS.	
14+00	55.03	53.95		
P.T. 14+25.08	58.64	57.76		
14+50	59.39	58.72	C=0.0002 1/2 FT.	
14+75	60.24	59.59		
15+00	60.85	60.32		
15+09.42	61.05	60.57	END S.E. TRANS.	
NORMAL SECTION = 0.02 FT./FT.				
15+93.83	62.42	61.94	BEGIN S.E. TRANS.	
16+00	62.49	61.98		
16+25	62.77	62.14		
16+50	63.04	62.29	C=0.0002 1/2 FT.	
P.C. 16+77.16	63.33	62.46		
17+00	63.59	62.60		
17+18.83	63.79	62.71	END S.E. TRANS.	
FULL SUPERELEVATION = 0.045 FT./FT. RT.				
18+06.68	64.57	63.49	BEGIN S.E. TRANS.	
18+50	64.63	63.52		
18+75	64.90	63.68		
P.T. 18+99.88	65.18	63.87	PATCH S.E. TRANS. I-95	
BEGIN S.B.R. I-95				

REVISIONS Δ REVISED PER TRANS. I-95 REVISED SE TRANS. I-95 REVISED SE TRANS. I-95 3-15-74	CONSULTANT ANDERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHODS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY			
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET				DRAWN BY S.G.M. TRACED BY J.W.S.	DES. BY T.E.L. CHK. BY J.L.C.
		SCALE: NONE		DATE: MAY 11, 1973		SHEET NO. (119) T-13 of T-13	
		F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998					

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-43934	T-2	T-13

SOIL LEGEND

	DUMP MAT'L		A-8, SWAMP MUCK
	A-3, SAND, NON-PLASTIC		A-4-7, CLAYEY SILT
	A-2, SAND & FINES		A-5, SILT WITH MICA AND/OR DECOMPOSED ROCK
	A-2-4, SILTY SAND		A-7, CLAY
	A-2-7, CLAYEY SAND		A-7-2, SANDY CLAY
	A-4, SILT		A-7-4, SILTY CLAY
	A-4-2, SANDY SILT		A-6, COLLOIDAL CLAY

IN-PLACE DRY DENSITY (DEPTH)
 RCF @ % MOISTURE (DATE)
 PROFILE VERTICAL SCALE 1"=10'
 LL - LIQUID LIMIT PI - PLASTICITY INDEX NP - NON PLASTIC
 M.D. & O.M.C. - MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT AS DETERMINED BY A.S.H.O. DESIGNATION T-99 METHOD "C"
 UNLESS OTHERWISE NOTED ON PLANS ALL SOIL SURVEY BORINGS FOR ROADWAY CONSTRUCTION WERE LEFT OPEN FOR 24 HOURS WITH NO EXCESS MOISTURE OR FREE WATER ENCOUNTERED DURING TIME OF SOIL SURVEY (NOV 6 & 16 1969-70)
 BORING DATA FOR STRUCTURES IS INDICATED ON RESPECTIVE PLAN SHEETS

ABBREVIATIONS

AT&T - American Telephone & Telegraph Co.	MH - Manhole	MTL - Metal
B.C.C.M.P. - Bituminous Coated Corrugated Metal Pipe	N.B.R. - Northbound Roadway	N.B.R. - Northbound Roadway
Bt - Bituminous	P/C - Point of Crown	P/C - Point of Crown
BL - Base Line of Construction	P.C.C.P. - Prestressed Concrete Cylinder Pipe	P.C.C.P. - Prestressed Concrete Cylinder Pipe
BL - Base Line of Survey	P/G.E. - Profile Grade Elevation	P/G.E. - Profile Grade Elevation
Blo - Block	P.G.L. - Profile Grade Line	P.G.L. - Profile Grade Line
B.M. - Bench Mark	P/R - Point of Rotation	P/R - Point of Rotation
Br - Brick	R.C.P. - Reinforced Concrete Pipe	R.C.P. - Reinforced Concrete Pipe
C.I.P. - Cast Iron Pipe	Ret St - Retail Store	Ret St - Retail Store
Conc - Concrete	Ret W - Retaining Wall	Ret W - Retaining Wall
C.W.D. - Creosote Wood Duct	S - Sign	S - Sign
C.B.P. - Chesapeake & Potomac Telephone Co.	San - Sanitary Sewer Line	San - Sanitary Sewer Line
D - Storm Drain	S.B.R. - Southbound Roadway	S.B.R. - Southbound Roadway
Dwg - Dwelling	SD - Side Ditch	SD - Side Ditch
Elev - Elevation	S.D.D. - Surface Drain Ditch	S.D.D. - Surface Drain Ditch
F.H. - Fire Hydrant	SE - Super-elevation	SE - Super-elevation
F.M. - Force Main	Sh - Shingle	Sh - Shingle
Fr - Frame	S.B.M. - Seed and Mulch	S.B.M. - Seed and Mulch
G - Gas Main	S.P.P. - Structural Plate Pipe	S.P.P. - Structural Plate Pipe
Gar - Garage	S.S.D. - Stopping Sight Distance	S.S.D. - Stopping Sight Distance
G.B. - Gas Box	Sta - Station	Sta - Station
G.B.E. - Gas and Electric Cu.	Std. Pl. - Standard Plate	Std. Pl. - Standard Plate
G.R. - Guard Rail	Sto - Stone	Sto - Stone
GV - Gas Valve	Sty - Story	Sty - Story
H.B. - Head Box	T - Transformer	T - Transformer
H.S.D. - Headlight Sight Distance	U.D. - Underdrain	U.D. - Underdrain
H.W. - Headwall	V.C.P. - Vitrified Clay Pipe	V.C.P. - Vitrified Clay Pipe
Mas - Masonry	V.C.P.X. - Vitrified Clay Pipe Extra Strength	V.C.P.X. - Vitrified Clay Pipe Extra Strength
M.E. - Mechanical-Electrical	W - Water Main	W - Water Main
Mfg - Manufacturing	WM - Water Meter	WM - Water Meter
M.H. - Manhole	W.V. - Water Valve	W.V. - Water Valve
M.T.D. - Multi-Terra-Cotta Duct		

LEGEND

EXISTING	PROPOSED

EXPLANATORY NOTES AND REFERENCES

VERTICAL CONTROL
 The Location and Elevations of Bench Marks are Shown on the Plans. All Elevations Shown are Based on Baltimore City Datum.

CRUSHER RUN CUSHIONS UNDER COMB CURB & GUTTER
 Are to be Paid For at the Bid Price For the Combination Curb & Gutter Item.

6 FT CHAIN LINK FENCE
 For 6 Ft Chain Link Fence See MD-69001-02, 02, 11, 12, 21-23.

SIGHT DISTANCE
 Stopping Sight Distance For Crest Vertical Curves is Based on a Height of Object = 0.33' and a Height of Eye = 3.0'. Headlight Sight Distance For Sag Vertical Curves is Based on a Height of Headlight = 2.0' and an Upward Divergence of Beam = 1/4°.

MATERIALS SALVAGED IN CONSTRUCTION
 These Materials shall Become the Property of the Contractor and shall be Removed From the Site of Construction Except for Those Items Provided For Salvage as shown on the Plans and Special Provisions.

HORIZONTAL CONTROL
 The Project is Oriented to Conform With the Baltimore City Grid System.

CLEARING AND GRUBBING
 Special Attention is Directed to the Fact that no Clearing and Grubbing or Grading May Commence for this Project until the Grading Limits are Staked in the Field and Approved by the Engineer. No Clearing Will be Allowed Beyond Construction Limits.

DRAINAGE STRUCTURES
 The Locations and Inverts of the Drainage Structures are Subject to Minor Modifications as May be Required by Field Conditions, as Directed by the Engineer.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	CRONKLE, BERGER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: J.R.W., P.D.D. TRACED BY: J.R.W. F.P.R. NO. 1-95-4(3)34 P.R.C. NO. BC 246-36-BIS BALTIMORE CITY NO. 1998
		SCALE: NONE	DATE: MAR 11, 1972

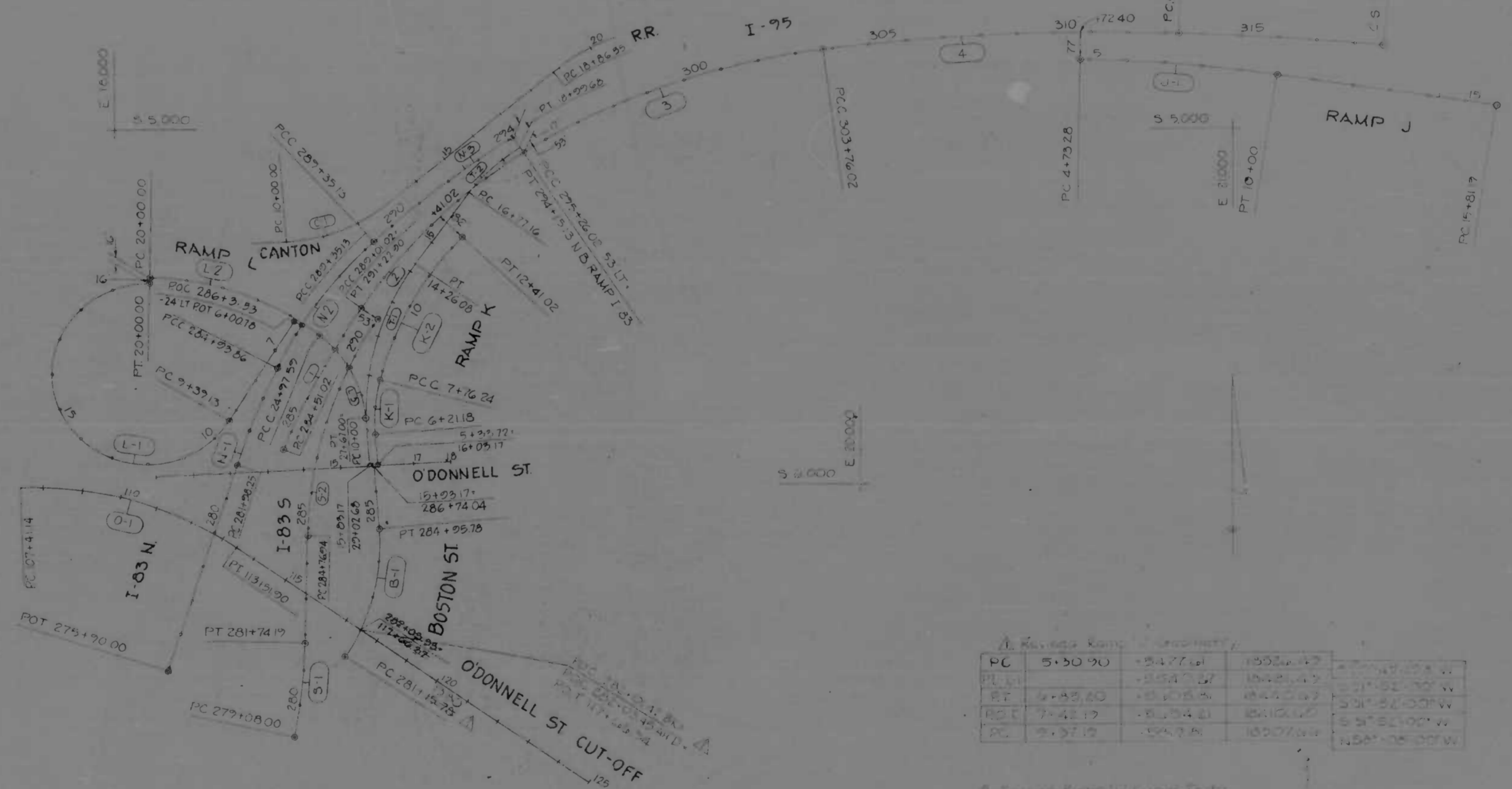
COORDINATE TABLE

LOCATION	POINT	STATION	COORDINATES		TANGENT BEARING
			NORTH	EAST	
I-95	PC	284+51.02	-5899.92	18457.21	N 22°23'48" E
	PI	286+76.75	-5903.31	18668.28	N 33°38'46" E
	PCC	289+01.02	-5903.31	18668.28	N 33°38'46" E
	PI	292+17.95	-5929.48	18843.89	N 57°05'03" E
	PCC	295+26.02	-5967.26	19109.34	N 57°05'03" E
	PI	299+58.18	-4832.42	19472.72	N 02°35'07" E
	PCC	303+76.02	-4776.64	19901.26	N 02°35'07" E
I-83N	PC	284+33.86	-5968.80	18441.31	N 25°25'15" E
	PI	287+17.26	-5487.03	18537.21	N 25°25'15" E
	PCC	289+35.13	-5316.06	18701.88	N 47°29'03" E
	PI	291+75.69	-5153.49	18879.19	N 47°29'03" E
	PT	294+15.13	-5022.76	19051.14	N 57°05'03" E
I-83S	PC	279+08.00	-6707.52	18484.27	N 11°19'50" E
	PI	280+41.43	-6576.69	18510.48	N 01°20'54" E
	PT	281+74.19	-6443.29	18513.62	N 01°20'54" E
RAMP L	PC	284+76.94	-6140.63	18520.75	N 01°20'54" E
	PI	288+08.75	-5808.91	18528.55	N 33°38'48" E
	PT	291+22.90	-5532.68	18712.40	
	POT	6+00.76	-5636.49	18487.44	S 32°18'14.6" W
	CC	HAD+254.65	-5685.38	18091.39	S 32°18'14.6" W
RAMP K	PC	20+00.00	-5430.77	18096.83	
	PI	22+57.98	-5419.27	18354.06	S 88°59'59.9" E
	PCC	24+97.59	-5579.23	18556.46	S 51°40'49.4" E
	PI	26+40.45	-5667.81	18668.54	S 51°40'49.4" E
	PT	27+67.00	-5810.22	18679.83	S 04°32'03" E
BOSTON ST	POT	28+90.96	-5923.82	18688.84	S 04°32'03" E
	PC	5+55.47	-5922.76	18708.82	N 04°32'03" W
	PI	6+21.18	-5857.26	18703.63	N 04°32'03" W
	PI	6+93.46	-5779.23	18697.44	N 14°50'52.7" E
	PCC	7+76.24	-5703.57	18717.50	N 14°50'52.7" E
RAMP J	PI	10+13.74	-5474.00	18778.36	N 43°53'48" E
	PT	12+41.02	-5302.86	18943.03	
	PC	281+15.78	-6483.91	18621.45	N 33°27'57" E
	PI	283+13.07	-6319.34	18730.24	N 04°32'03" W
	PT	284+35.78	-6122.67	18714.64	N 04°32'03" W
TEMP CONNECTION TO S R R-I-95	POT	286+95.78	-5923.29	18698.83	S 89°13'39.8" E
	PC	4+73.28	-4805.89	20596.19	S 81°19'36.7" E
	PI	7+37.05	-4809.45	20859.94	S 81°19'36.7" E
	PT	10+00.00	-4849.22	21120.71	S 81°19'36.7" E
	POT	15+81.19	-4936.87	21695.25	
CANTON RAILROAD	PC	10+00.00	-5810.22	18679.83	N 88°27'57" W
	PI	12+22.37	-5588.55	18662.25	N 35°56'75.2" E
	PT	14+26.08	-5408.52	18792.79	N 35°56'75.2" E
	PI	16+77.16	-5205.25	18940.16	N 35°56'75.2" E
	PT	17+89.70	-5114.14	19006.23	S 44°33'20.8" E
D'ODONNELL STREET CUT-OFF	PI	18+99.68	-5052.94	19100.71	S 50°44'57.1" W
	PCC	10+00.00	-5314.82	18464.34	S 36°50'28.8" W
	PI	11+55.95	-5306.23	18620.55	S 86°56'28.8" W
	PT	13+00.77	-5207.62	18741.24	
	FC	18+86.55	-4836.99	15194.85	
DRAINAGE CHANNEL	PC	10+64.83	-6207.23	18592.60	N 34°18'15.2" E
	PI	11+10.05	-6169.87	18618.08	N 27°24'09.7" E
	PT	11+55.17	-6129.72	18638.90	N 27°24'09.7" E
	PCC	14+56.17	-5862.49	18777.42	N 27°24'09.7" E
	PI	14+86.57	-5839.95	18789.12	N 27°24'09.7" E
D'ODONNELL STREET CUT-OFF	PI	15+09.49	-5814.81	18792.74	N 08°10'55.7" E
	PCC	107+41.14	-6007.75	17746.10	
	PI	110+57.98	-5991.47	18062.52	N 87°03'15.4" E
	PI	113+51.90	-6171.71	18223.10	S 55°19'44.5" E
	PCC	126+00.00	-6824.82	19267.34	
D'ODONNELL STREET	PI	10+00.00	-5975.45	18106.16	N 87°03'15.4" E
	PCC	18+00.00	-5834.33	18907.11	

CURVE DATA

LOCATION	CURVE NO	Δ	D	R	T	L	E	SE
I-95	1	11°15'00"	02°30'00"	2291.83'	225.78'	450.00'	11.09'	.051%
	2	23°26'15"	03°45'00"	1527.89'	316.93'	735.00'	32.52'	.058%
	3	25°30'00"	03°00'00"	1909.86'	432.16'	850.00'	48.28'	.054%
	4	09°36'00"	01°00'00"	5729.56'	481.13'	560.00'	20.17'	.027%
	5	03°07'15"	00°35'00"	9822.14'	267.57'	535.00'	4.77'	.021%
I-83N	N-1	07°23'25.1"	02°30'00"	2291.83'	148.01'	295.61'	4.77'	.04%
	N-2	22°03'47.9"	05°00'00"	1145.92'	293.40'	441.27'	21.57'	.056%
	N-3	09°36'00"	02°00'00"	2864.79'	240.56'	480.00'	10.08'	.035%
I-83S	S-1	09°58'55.9"	03°45'00"	1527.89'	133.43'	266.19'	5.82'	.05%
	S-2	32°17'53.9"	05°00'00"	1145.92'	331.82'	645.97'	47.07'	.056%
RAMP L	L-1	238°41'45.5"	22°30'00"	254.65'		1050.87'		.08%
	L-2	37°19'10.6"	07°30'00"	763.94'	257.98'	497.59'	42.38'	
	L-3	47°08'46.4"	17°30'00"	327.40'	142.86'	269.41'	29.81'	
RAMP K	K-1	19°22'55.7"	12°30'00"	458.37'	78.28'	155.06'	6.64'	.058%
	K-2	28°02'55.2"	05°18'00"	316.73'	371.50'	464.78'	30.26'	.058%
BOSTON ST	B-1	38°00'00"	10°00'00"	572.96'	197.29'	390.00'	33.01'	
	J-1	07°54'03.1"	01°30'00"	3819.72'	263.78'	526.72'	9.10'	.019%
TEMP CONNECTION TO S R R-I-95	T-1	49°31'17.5"	09°30'00"	603.11'	222.37'	426.09'	0.45'	.045%
	T-2	08°36'41.6"	09°30'00"	603.11'	112.54'	222.52'	0.45'	.045%
DRAINAGE CHANNEL	D-1	06°54'06.5"	07°88'22"	750.00'	45.22'	90.34'	1.36'	
	D-2	19°12'14"	38°11'49.9"	150.00'	25.40'	50.32'	2.14'	
	D-3	37°36'59.7"	06°09'32.3"	930.28'	316.84'	610.76'	52.48'	

* CHORD DEFINITION



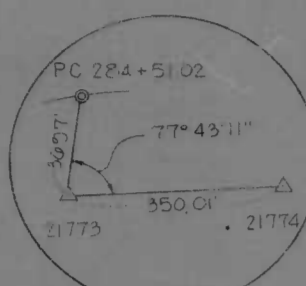
Vertical Curve Data

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5+30.90	7+37.05	6+34.00	9+00.00
10+00.00	12+22.37	11+11.19	14+26.08
16+77.16	17+89.70	17+33.43	18+99.68
20+00.00	21+12.00	20+56.00	23+00.00

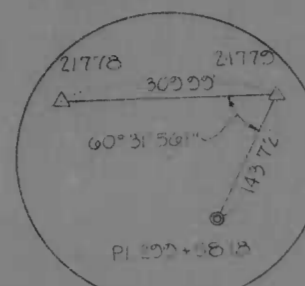
Horizontal Curve Data

Curve No	Δ	D	R	T	L	E	SE
1	11°15'00"	02°30'00"	2291.83'	225.78'	450.00'	11.09'	.051%
2	23°26'15"	03°45'00"	1527.89'	316.93'	735.00'	32.52'	.058%
3	25°30'00"	03°00'00"	1909.86'	432.16'	850.00'	48.28'	.054%

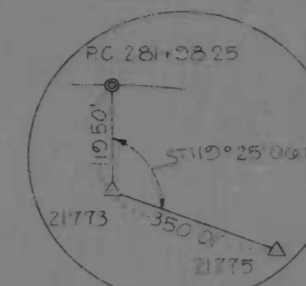
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		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET		DRAWN BY: J.W.S. TRACED BY: J.W.S.	DER. BY: T.E.L. CEN. BY: J.L.C.
SCALE: 1" = 200'		DATE: MAY 11, 1973		BALTIMORE CITY NO. 1998	



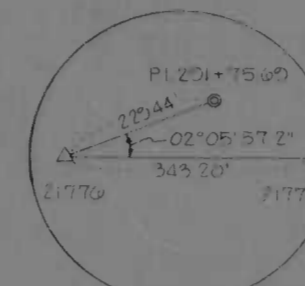
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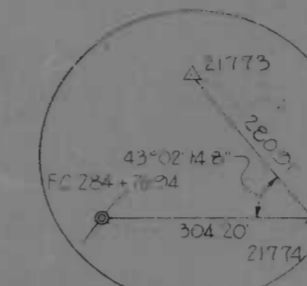
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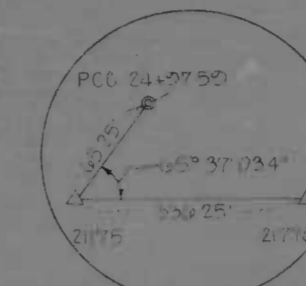
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P.C. STA. 281+58.25



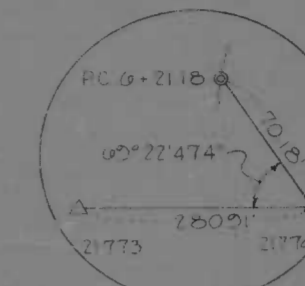
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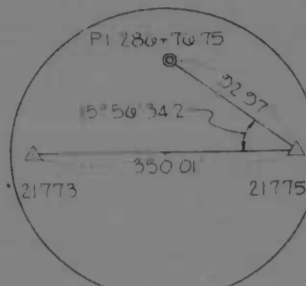
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P.C. STA. 284+76.94



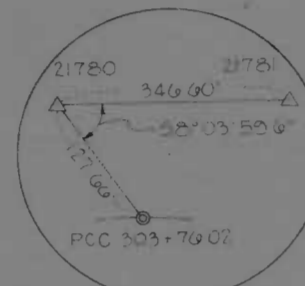
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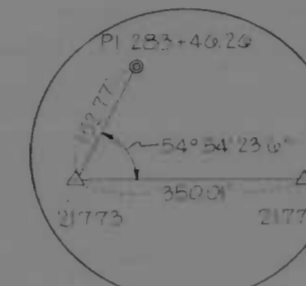
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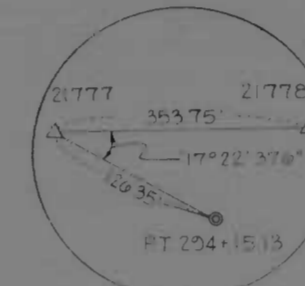
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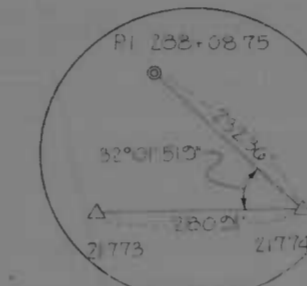
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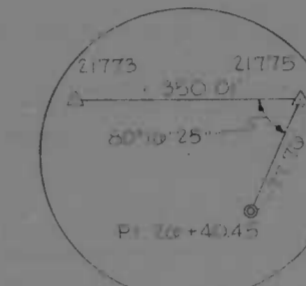
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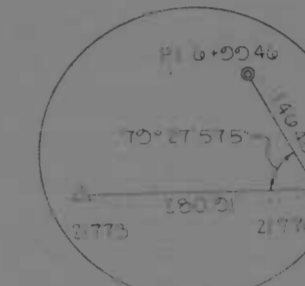
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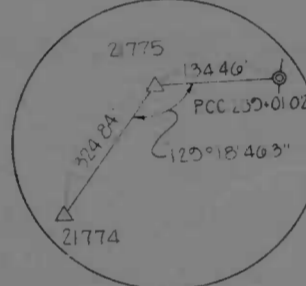
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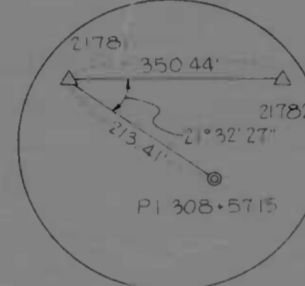
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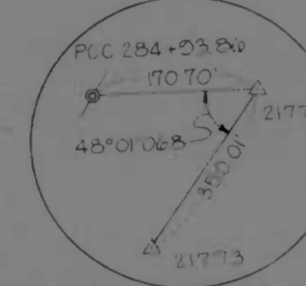
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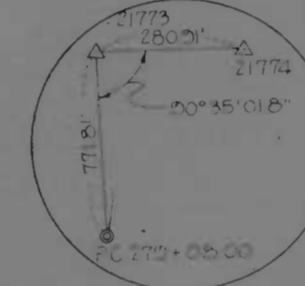
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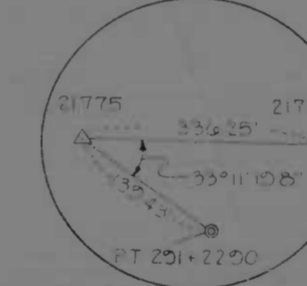
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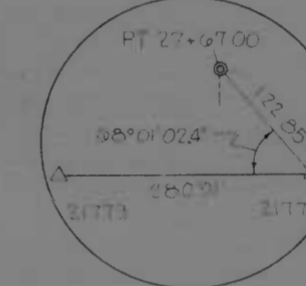
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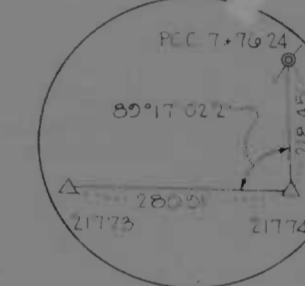
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P.C. STA. 279+08.00



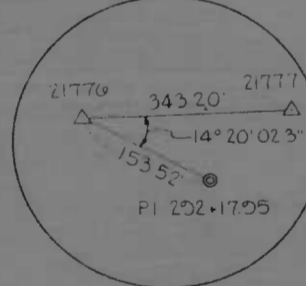
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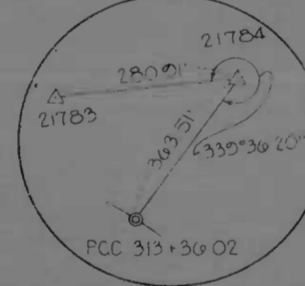
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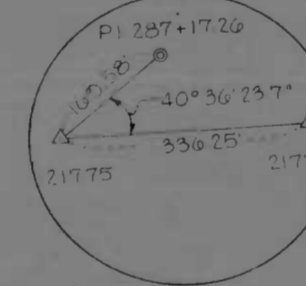
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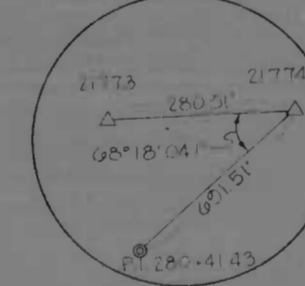
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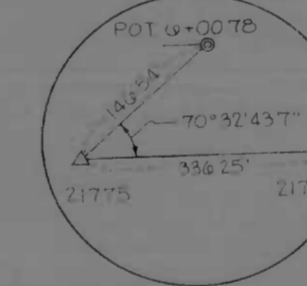
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P.C.C. STA. 313+36.02



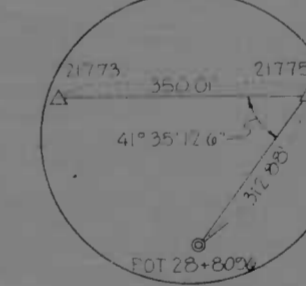
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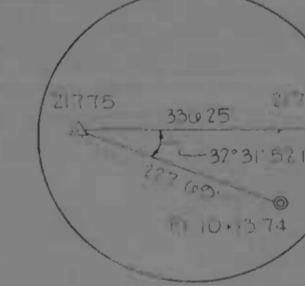
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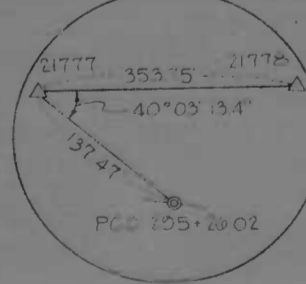
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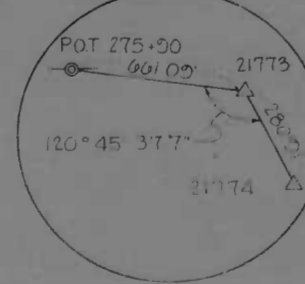
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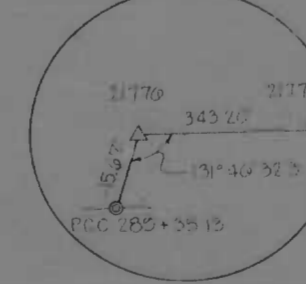
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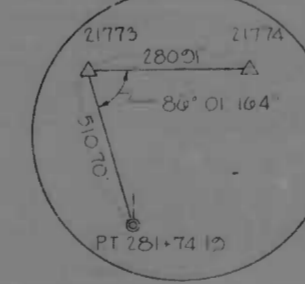
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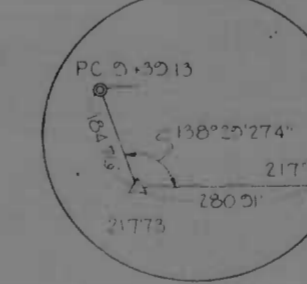
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P.O.T. STA. 275+90



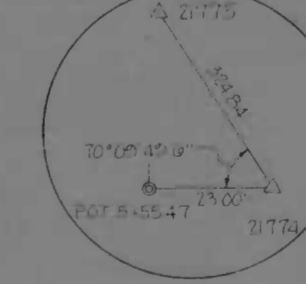
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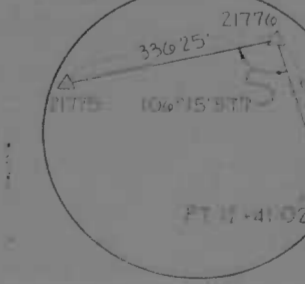
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RAMP L
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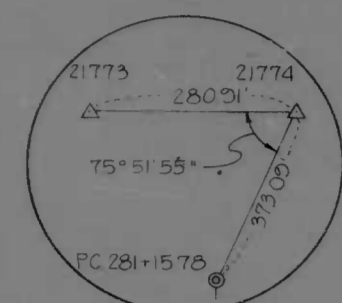
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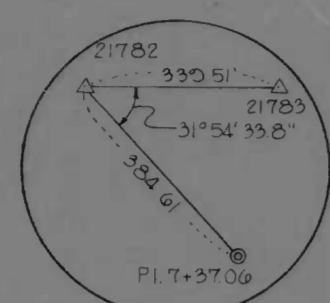
RAMP K
P.T. STA. 12+41.02

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ZBIBEL, BINDER, STONE & ASSOC., INC. MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: J.W.S. TRACED BY: J.S.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1958
		SCALE: NOT TO SCALE DATE: MAY 11, 1973	DES. BY: J.E.L. CHK. BY: J.L.C. SHEET NO. (119) T-4 of T-13

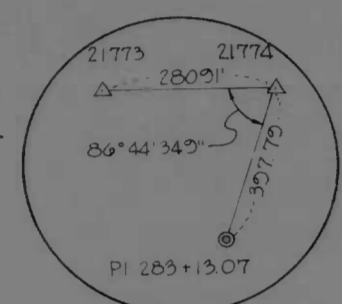
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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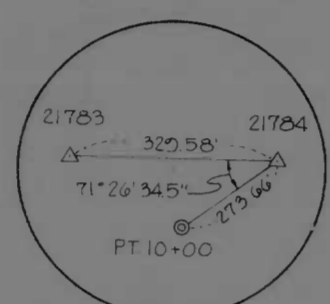
BOSTON STREET
P. I. STA 281+15.78



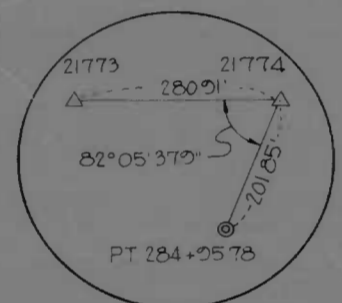
RAMP J
P. I. STA 7+37.06



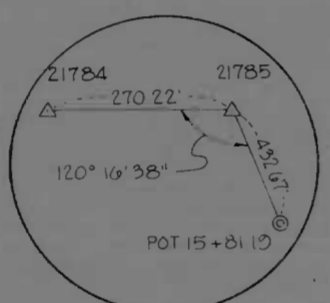
BOSTON STREET
P. I. STA 283+13.07



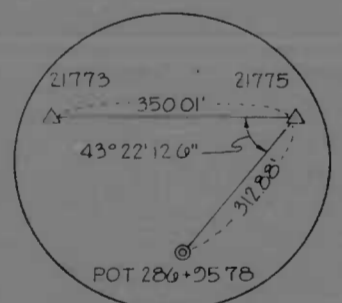
RAMP J
P. T. STA 10+00



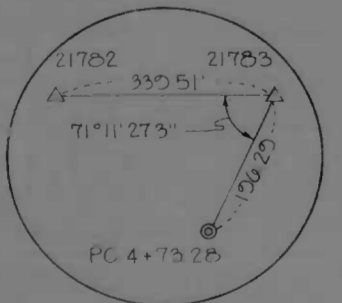
BOSTON STREET
P. T. STA 284+95.78



RAMP J
P. O. T. STA 15+81.19



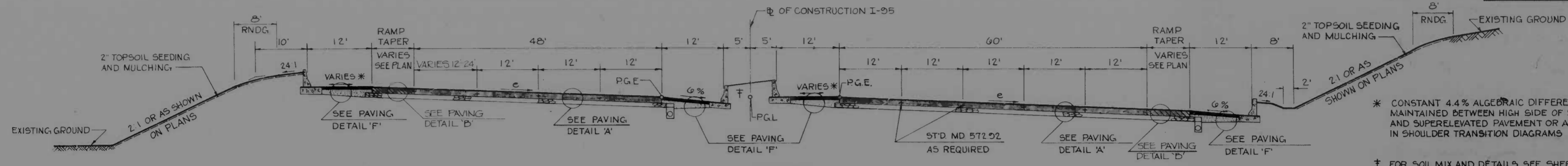
BOSTON STREET
P. O. T. STA 286+95.78



RAMP J
P. O. STA 4+73.28

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KENDERLE, BLUNDER, STONE & ASSOC., INC. AND MATZ, GIBBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. DALVERT STREET BALTO. MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY J.W.S. TRACED BY J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
		DES. BY T.E.L. CHK. BY J.L.C.	SHEET NO. (119) T-5 of T-13
		SCALE: NOT TO SCALE DATE: MAY 11, 1973	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	T-6	(119) T-13

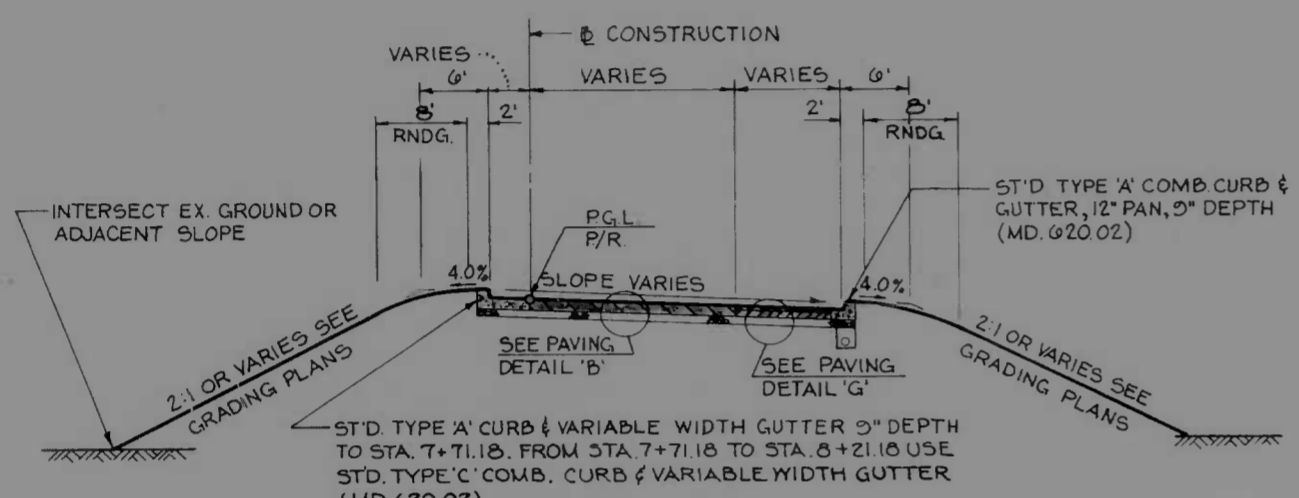


TYPICAL SECTIONS
INTERSTATE ROUTE 95
NO SCALE

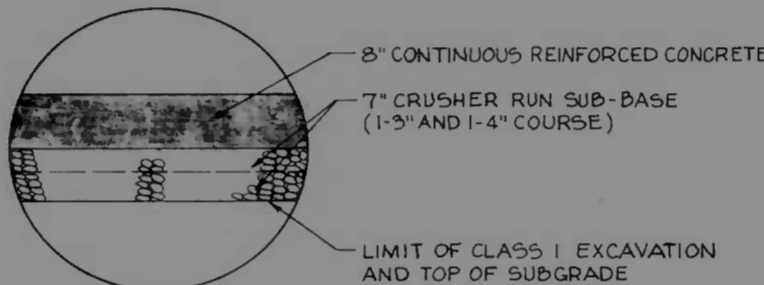
* CONSTANT 4.4% ALGEBRAIC DIFFERENCE TO BE MAINTAINED BETWEEN HIGH SIDE OF SHOULDER AND SUPERELEVATED PAVEMENT OR AS SHOWN IN SHOULDER TRANSITION DIAGRAMS

† FOR SOIL MIX AND DETAILS SEE SHEET NO. AND SPECIAL PROVISIONS

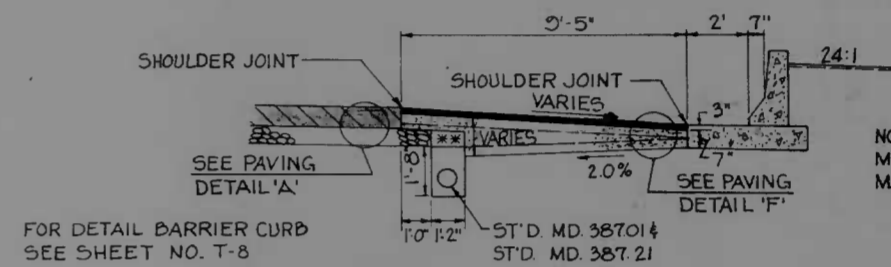
NOTE: 2" TOPSOIL SEEDING AND MULCHING SHALL BE USED ON ALL SLOPES AND GRADED AREAS AS SHOWN ON PLANS AND AS DIRECTED BY THE ENGINEER.



RAMP 'K'
O'DONNELL STREET TO STA. 8+21.18
NO SCALE

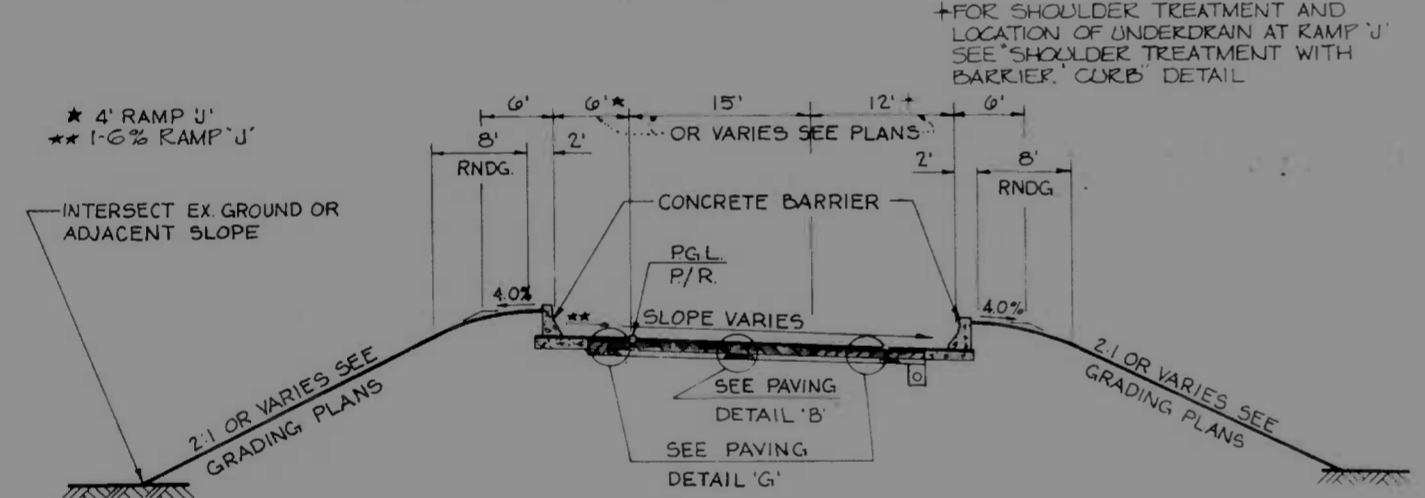


PAVING DETAIL 'A'

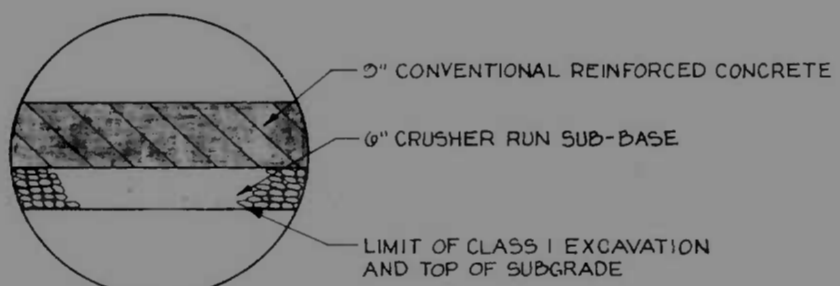


SHOULDER TREATMENT WITH BARRIER CURB
NO SCALE

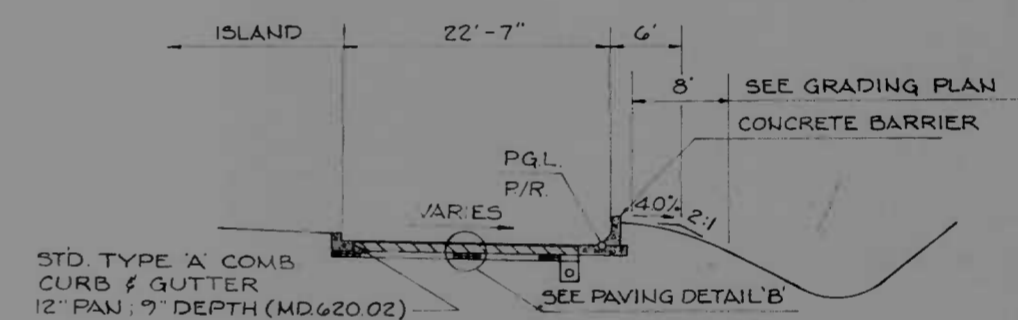
NOTE: ON HIGH SIDE OF SUPERELEVATION MD. 387.01 IS OMITTED AND SHOULDER MATERIAL TIES TO SUB-BASE MATERIAL



RAMP 'J'
STA. 8+21.18 TO STA. 12+41.02
NO SCALE

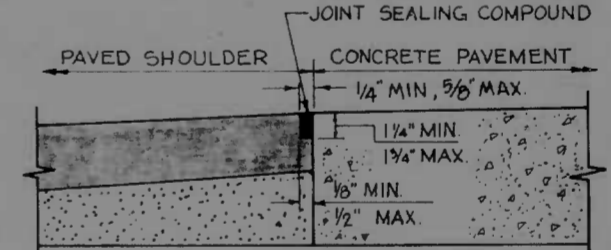


PAVING DETAIL 'B'



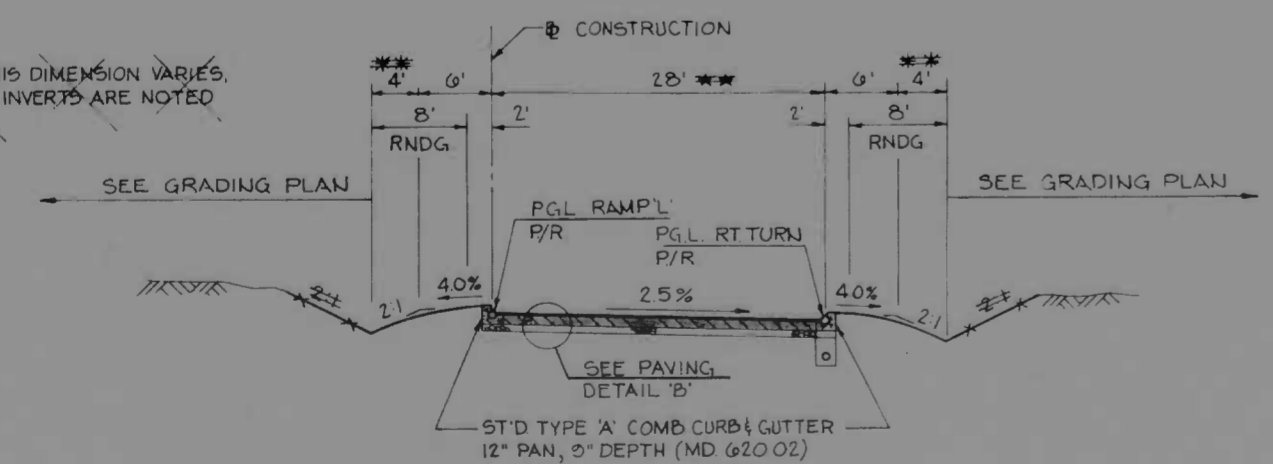
RAMP 'L' FREE RT. TURN

NOTE: FROM STA. 1+23.5 AND MAKE TEMPORARY CONNECTION TO O'DONNELL ST AS SHOWN ON PLAN USING STD. BITUMINOUS CONCRETE CURB (MD-615.01) AND PAVING DETAIL 'H'.

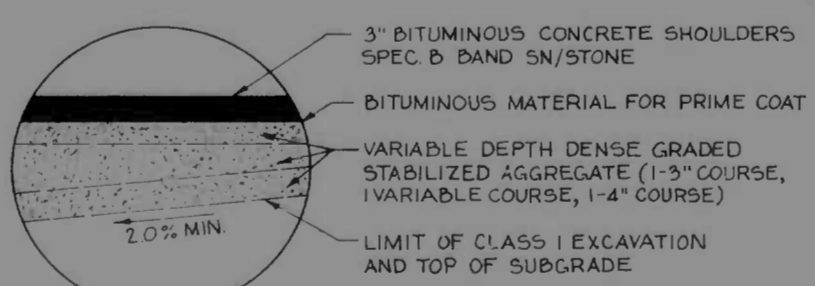


SHOULDER JOINT DETAIL
NO SCALE

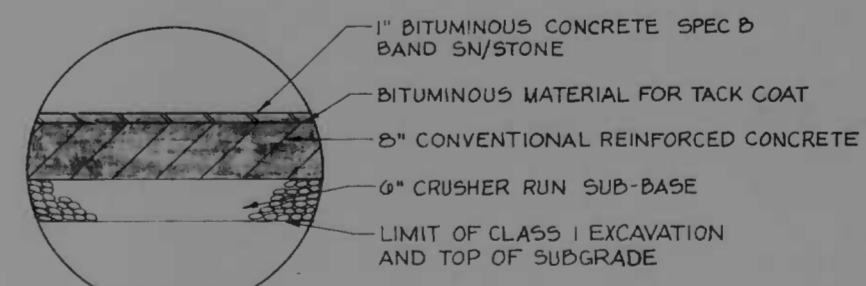
WHERE THIS DIMENSION VARIES, OFFSETS & INVERTS ARE NOTED ON PLANS



RAMP 'L' CONNECTION
RAMP 'L'
NO SCALE



PAVING DETAIL 'F'



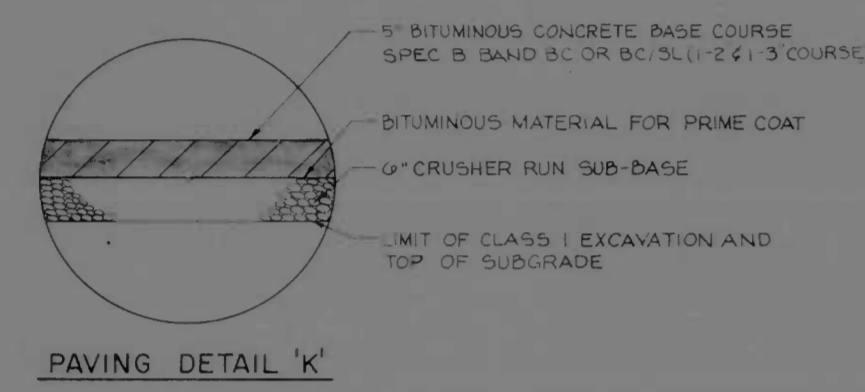
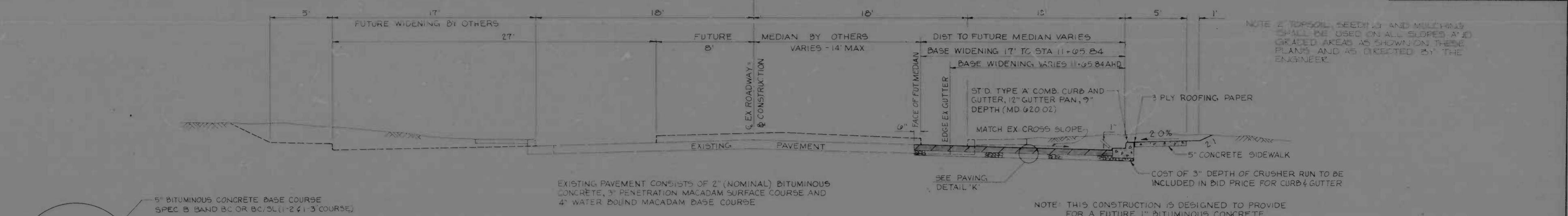
PAVING DETAIL 'G'

NOTE: FROM STA. 1+23.5 AND MAKE TEMPORARY CONNECTION TO O'DONNELL ST AS SHOWN ON PLAN USING STD. BITUMINOUS CONCRETE CURB (MD-615.01) AND PAVING DETAIL 'H'.

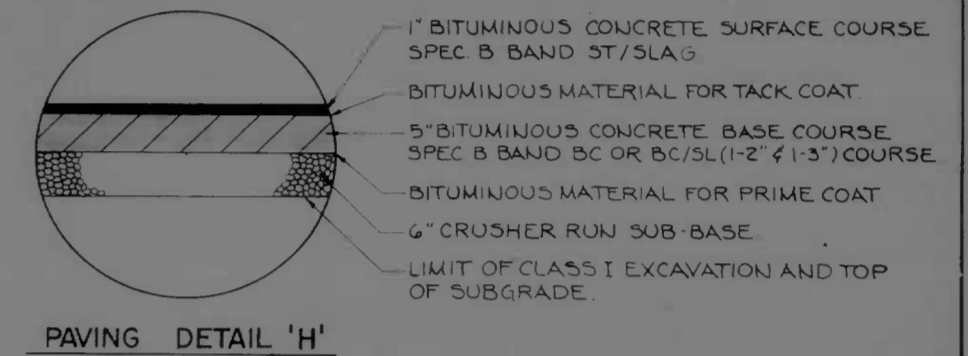
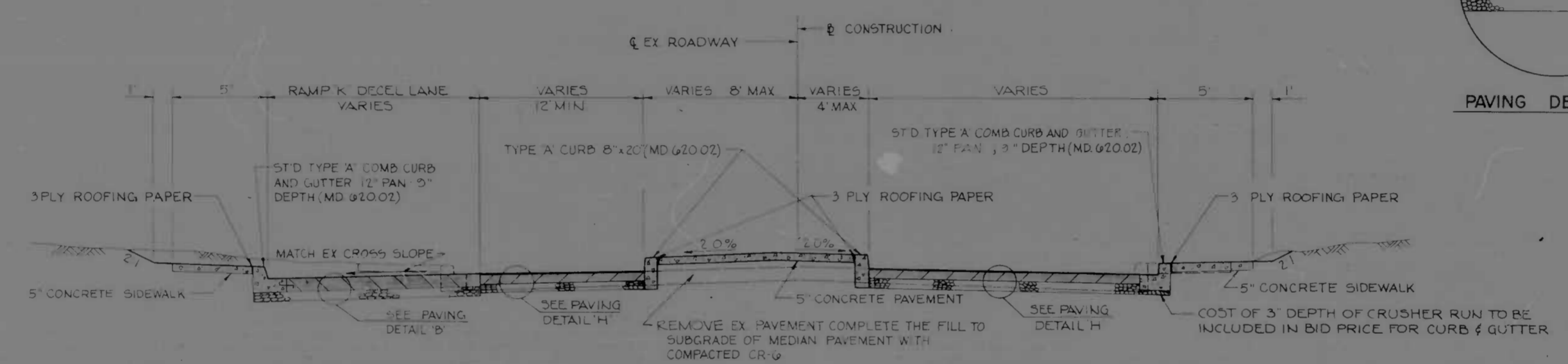
REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
REVISED AND ADDED TYPICALS TO ACCOMMODATE CONC. BARRIER 2/15-73	KNORRLE, BENDER, STONE & ASSOC., INC. AND MATZ, GIBBS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21201	DEPARTMENT OF PUBLIC WORKS	INTERSTATE DIVISION FOR BALTIMORE CITY
		INTERSTATE ROUTE 95	
		FROM O'DONNELL STREET	
		TO WEST OF GUSRYAN STREET	
		DRAWN BY J.W.S.	DES. BY T.E.L.
		TRACED BY J.W.S.	CHK. BY J.L.C.
		F.A.P. NO. I-95-4(39)34	SHEET NO. (119)
		S.R.C. NO. BC 246-36-815	T-6 OF T-13
		BALTO. CITY NO. 1998	

SCALE: NOT TO SCALE DATE: MAY 11, 1973

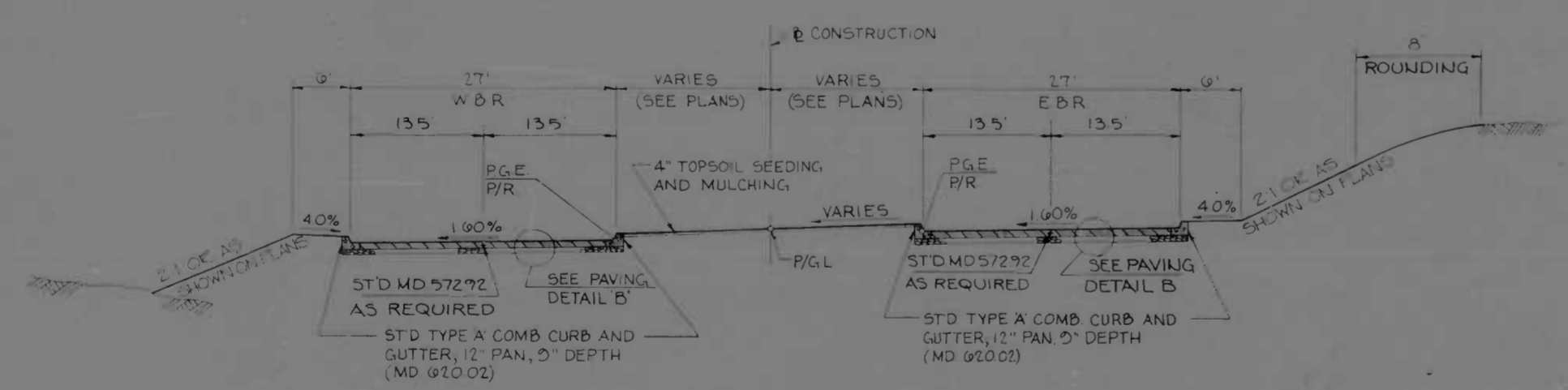
REL. ROAD BY NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	T-7	(119) T-13



O'DONNELL STREET
FROM O'DONNELL STREET CUT-OFF TO BOSTON ST.
NO SCALE



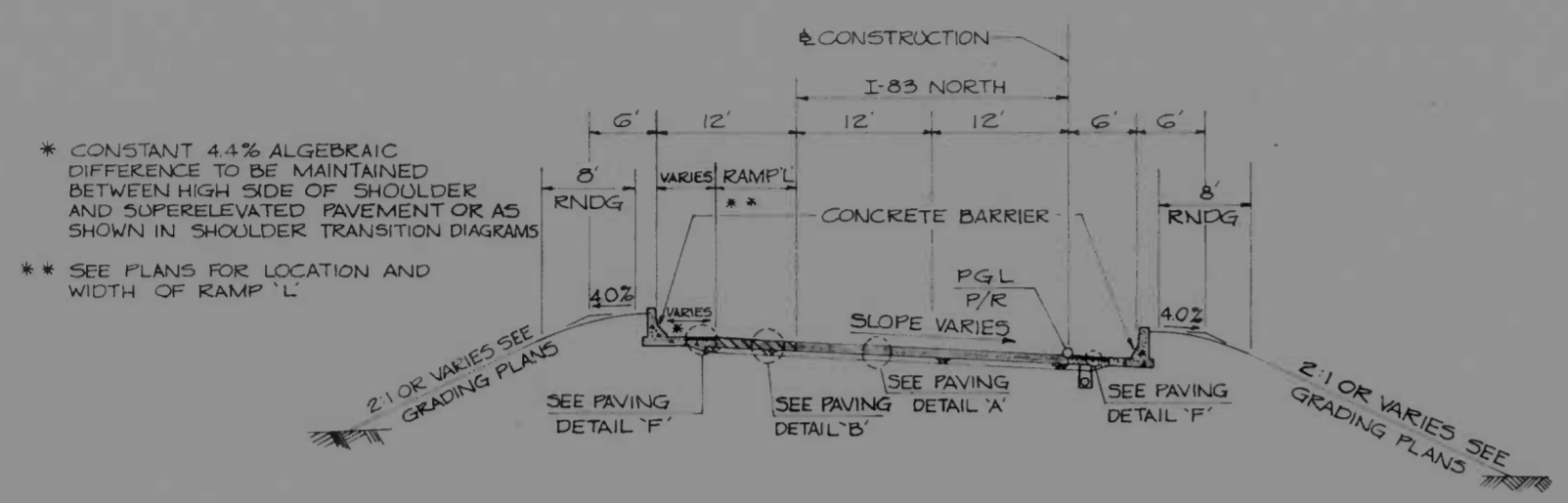
O'DONNELL STREET
FROM BOSTON STREET EASTERLY TO LIMIT OF WORK
NO SCALE



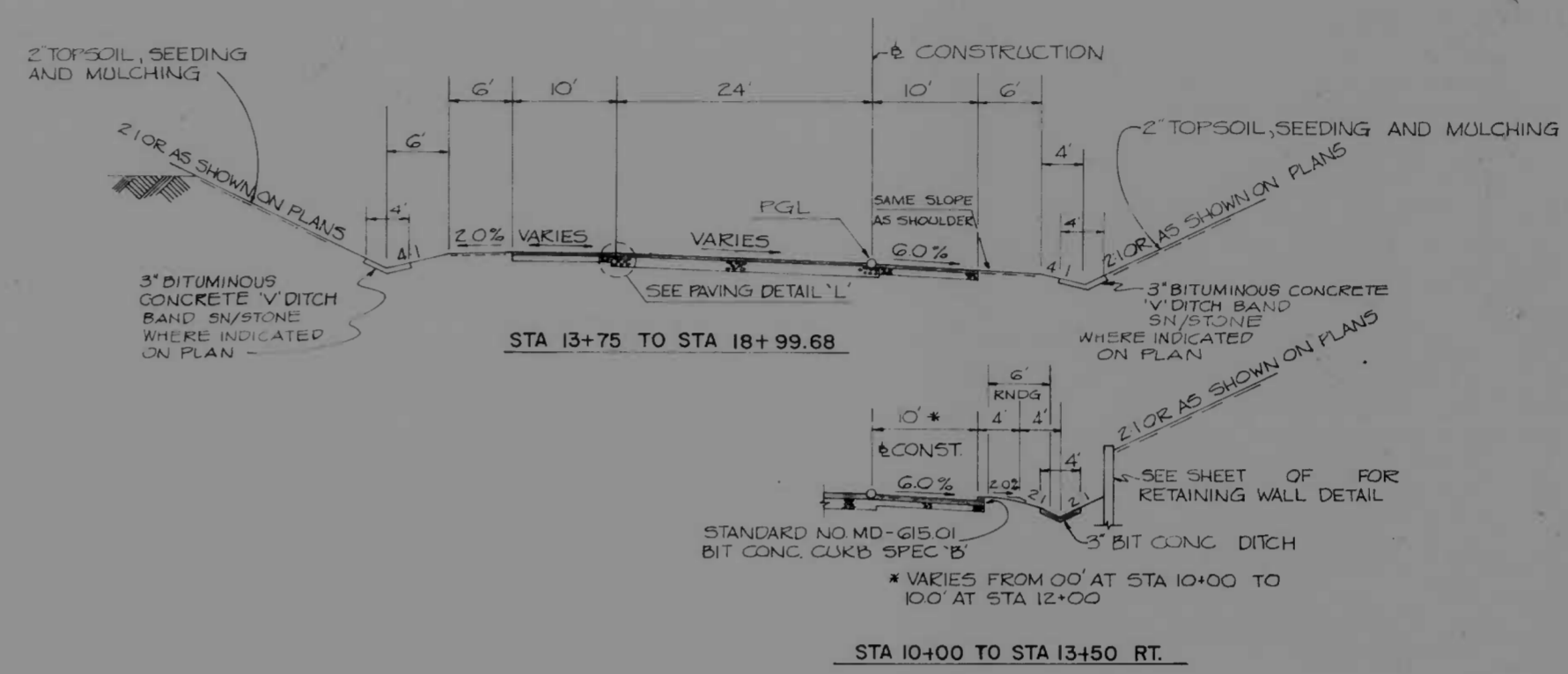
BOSTON STREET
NO SCALE

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	PAVING, ROAD, & CONSTRUCTION DATE: 1973 141 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: JWS TRACED BY: JWS T & P NO. I-95-4(39)34 S & R C NO. BC 246-36-815 BALTO. CITY NO. 1998
		DES. BY: TEL CHK. BY: J.L.C.	SHEET NO. (119) T-7 OF T-13
		SCALE: NOT TO SCALE	DATE: MAY 11, 1973

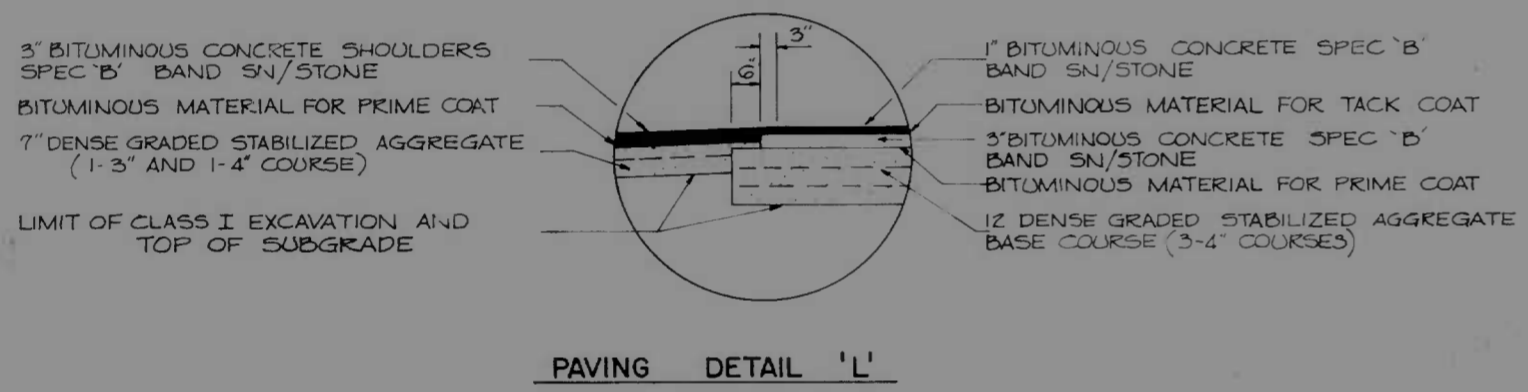
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	T-8	(119)



I-83 NORTH
NO SCALE



TEMPORARY CONNECTION I-95 SBR
SCALE: 1"=10'-0"



PAVING DETAIL 'L'

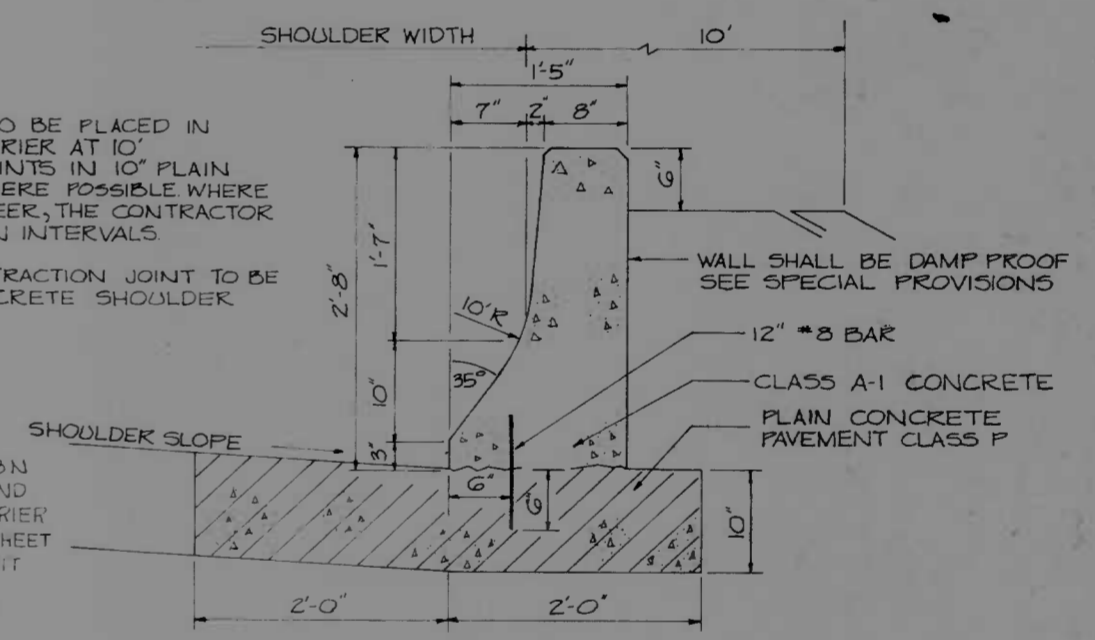
NOTE

① CONSTRUCTION JOINT TO BE PLACED IN UPPER PORTION OF BARRIER AT 10' INTERVALS TO MATCH JOINTS IN 10' PLAIN CONCRETE PAVEMENT WHERE POSSIBLE WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR CAN POUR 20' JOINTS IN INTERVALS.

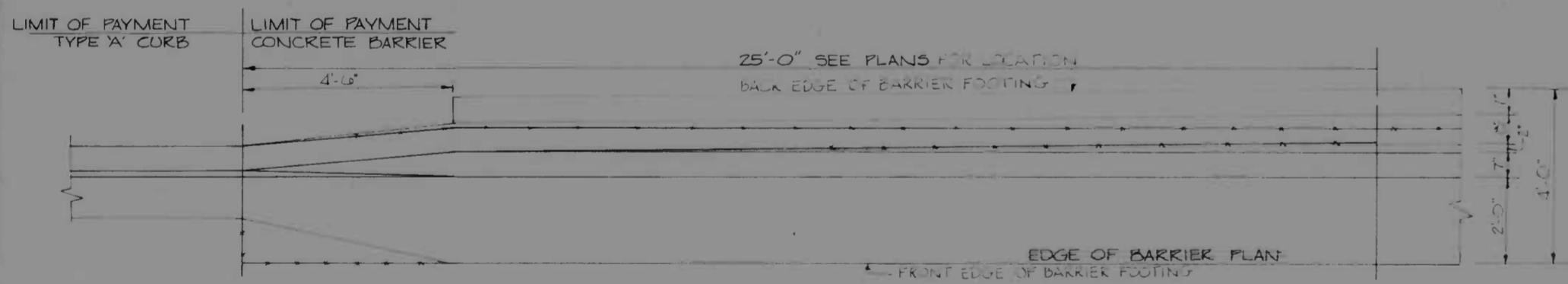
② CONSTRUCTION OR CONTRACTION JOINT TO BE PLACED IN 10' PLAIN CONCRETE SHOULDER PAVEMENT EVERY 40'

NOTE

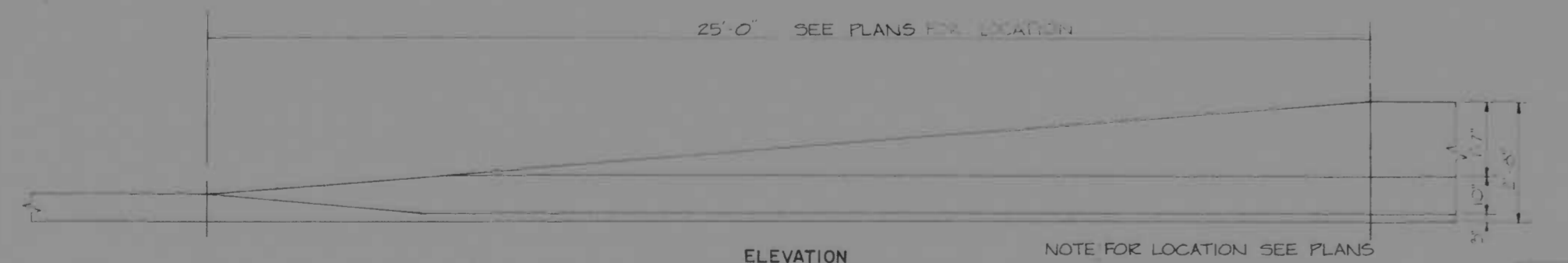
STA 288+50 TO STA 289+00 30' LT I-83N INSTALL 3" GALVANIZED STEEL TRANSIT AND AND TRAFFIC CONDUIT IN CONCRETE BARRIER IN ACCORDANCE WITH THE DETAILS ON SHEET NOS. 3-23 AND 3-24. TERMINATE CONDUIT AT STA 288+50 WITH FEMALE END OF GROUNDING TYPE EXPANSION FITTING



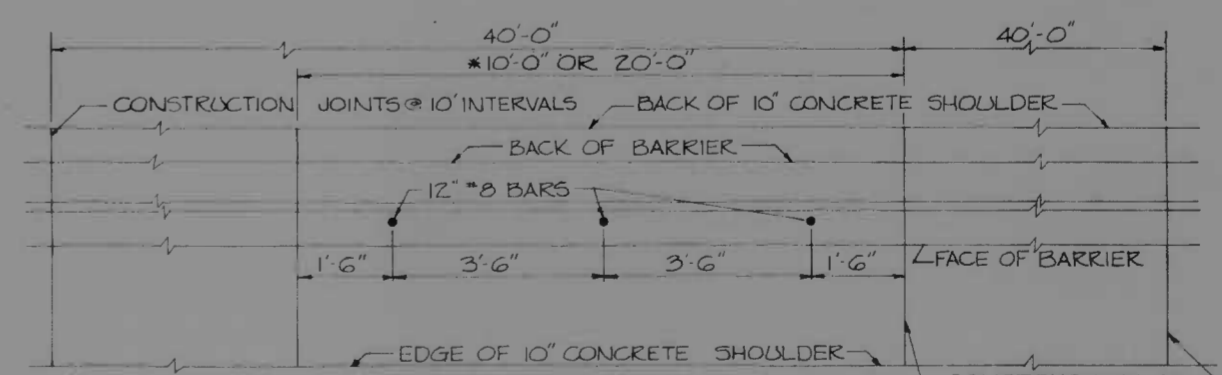
SECTION
SCALE: 1"=1'-0"



PLAN
SCALE: 1"=2'-0"



BARRIER-CURB TRANSITION
SCALE: 1"=2'-0"



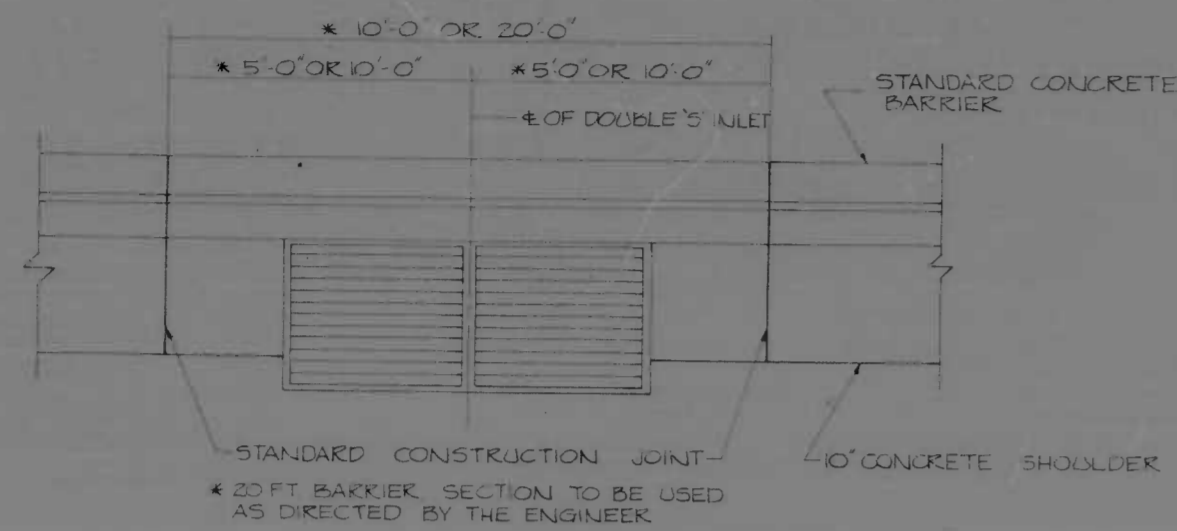
PLAN VIEW
CONCRETE BARRIER
SCALE: 1"=2'-0"

* 20FT BARRIER SECTION TO BE USED AS DIRECTED BY THE ENGINEER

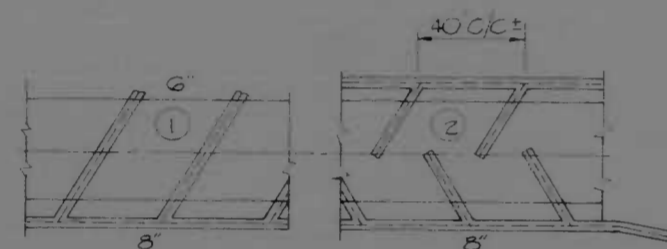
REVISIONS REVISED PLAN ELEV BARRIER CURB TRANSITION 3-15-74 REVISED BARRIER CURB 7-15-74	CONSULTANT INGERSOLL, BENDER, STONE & ASSOC., INC. AND MATT, CURRIS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
			DRAWN BY J.W.S. TRACED BY J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1988	DES. BY T.E.L. CHK. BY J.L.C. SHEET NO. (119) T-8 of T-13

BACK-UP WALL FOR ENERGY ABSORPTION DEVICE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	T-9	(119)



JOINT DETAIL FOR DOUBLE 'S' INLET
SCALE 1"=2'-0"



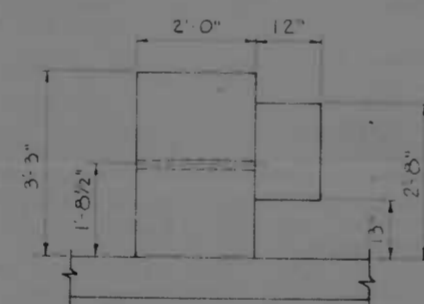
CONTINGENT UNDERDRAIN PATTERN
SEE SRC. STD. PLATE MD 38701 NOT TO SCALE
USING SUB SURFACE
DRAINAGE DITCH SECTION

- ① PERFORATED ROUND UNDERDRAIN LATERALS 8" OUTLET PIPES AS REQUIRED
- ② PERFORATED ROUND UNDERDRAIN

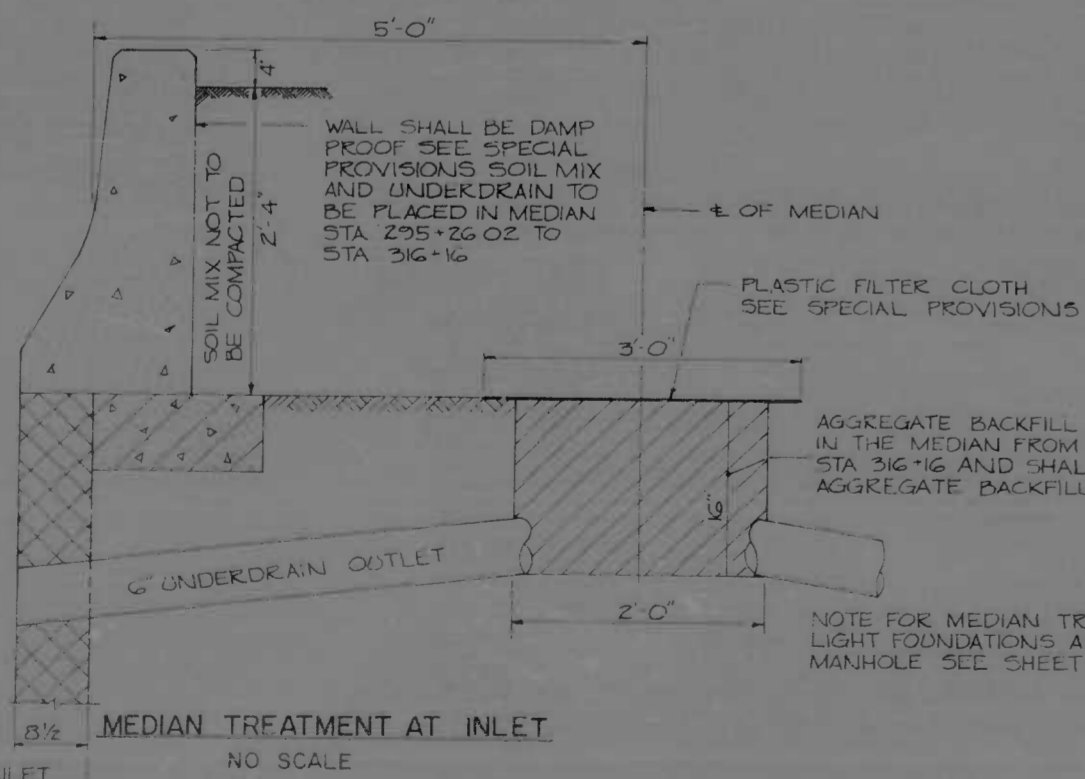
- ① UNDERDRAIN LINE ONE SIDE LATERALS
- ② UNDERDRAIN LINE BOTH SIDES WITH STAGGERED LATERALS

TO BE CONSTRUCTED IF DIRECTED BY THE ENGINEER FOR CONTROL OF UNDERGROUND SPRING AND SUB-GRADE DRAINAGE PROBLEMS IN WET CUT AREAS LOCATIONS AND TYPE AS DIRECTED BY THE ENGINEER.

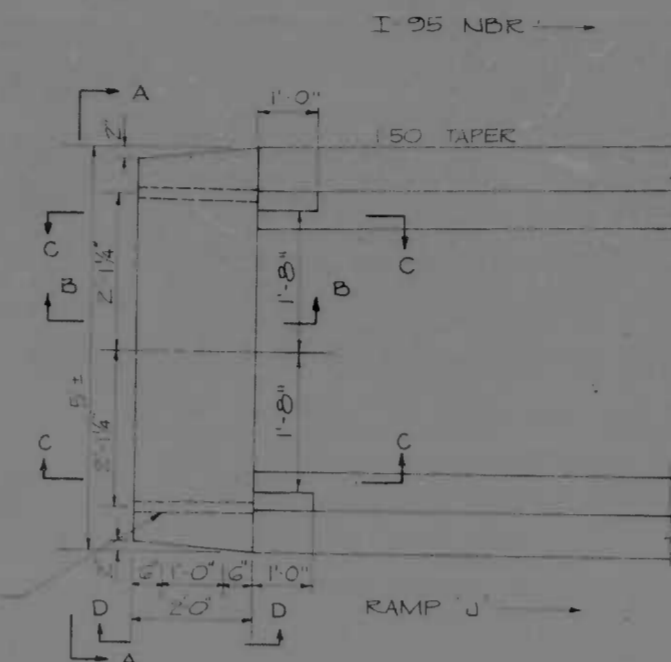
CONTINGENT UNDERDRAIN PATTERN
NO SCALE



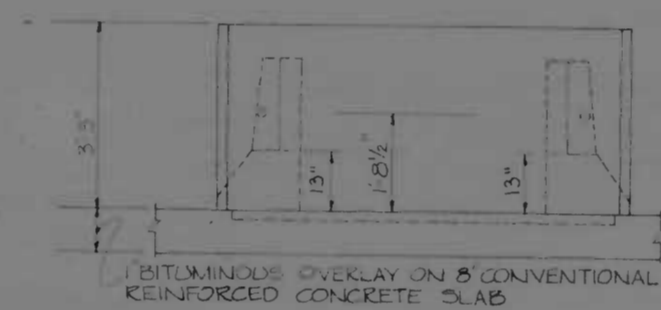
VIEW D-D
SCALE 1"=2'-0"



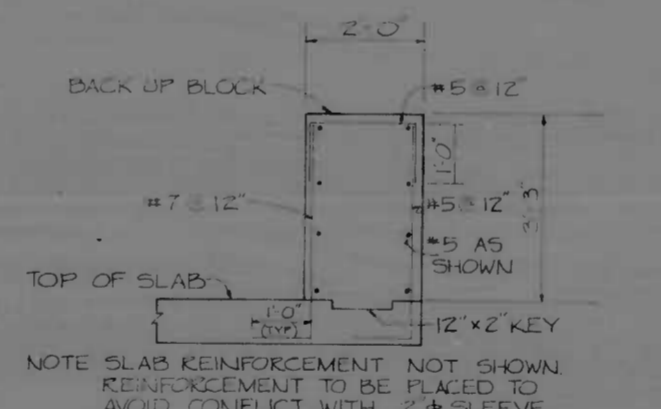
STANDARD TYPE 'S' INLET
MEDIAN TREATMENT AT INLET
NO SCALE



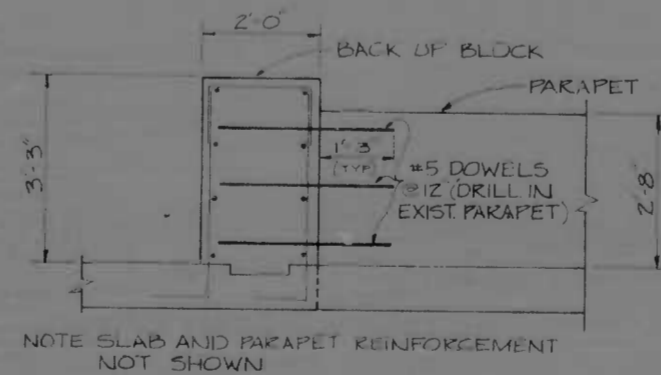
PLAN
NO SCALE



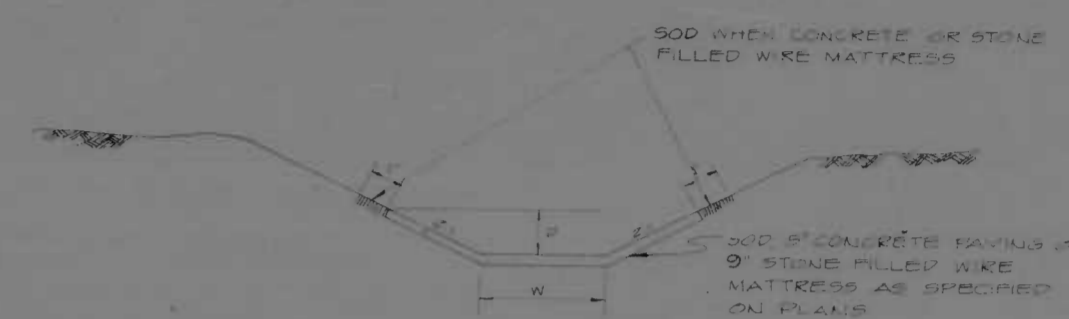
VIEW A-A
NO SCALE



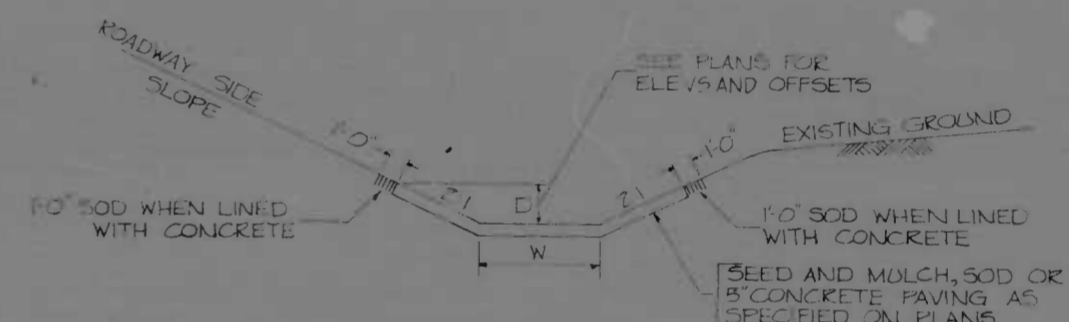
VIEW B-B
SCALE 1"=2'-0"



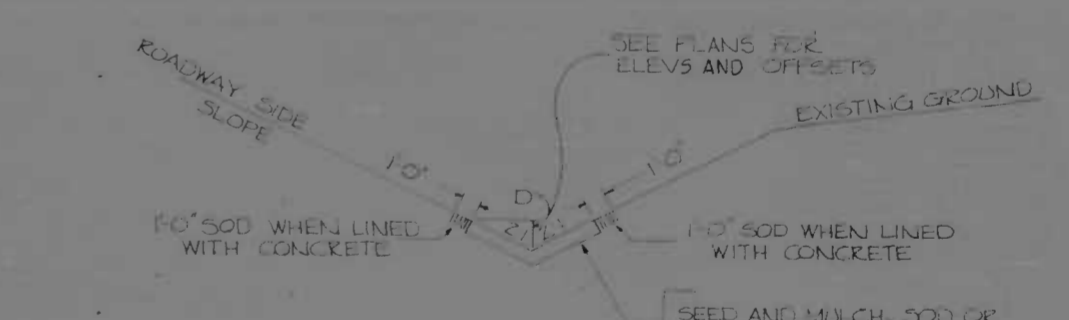
VIEW C-C
NO SCALE



TYPICAL INLET AND OUTLET DITCH
NO SCALE



SIDE DITCH DETAIL
NO SCALE



TYPICAL 'V' DITCH DETAIL
NO SCALE

REVISIONS III ADDENDUM NO. 2 AUGUST 21 1973	CONSULTANT WATZ, CHIDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY J.W.S. TRACED BY J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTIMORE DIST. NO. 1358
SCALE: NOT TO SCALE		DATE: MAY 11 1973	DES. BY J.E.L. CHECK BY J.W.S. SHEET NO. (119) T-9 OF T-13

SIGNING FOUNDATIONS				
LOCATION	DISTANCE	SIDE	REMARKS	
O'DONNELL ST STA 10+10	38.00	RT.	2'0" φ	
O'DONNELL ST STA 10+10	41.50	RT.	3'0" φ	
BOSTON STREET STA 122+00	51.20	LT.	2'0" φ	
BOSTON STREET STA 122+00	60.50	LT.	7'0" φ	
RAMP 'L' STA 17+40	37.90	RT.	2'0" φ	
RAMP 'L' STA 17+40	46.60	RT.	2'0" φ	
O'DONNELL CUT-OFF STA 110+20	50.00	LT.	4'6" φ	

HIGH MAST LIGHTING FOUNDATIONS				
LOCATION	DISTANCE	SIDE	REMARKS	
BOSTON STREET STA 122+10	18.50	LT.	4'6" φ	
O'DONNELL CUT-OFF STA 110+30	85.00	LT.	4'6" φ	

TRANSIT & TRAFFIC POLE SCHEDULE						
POLE IDENT	POLE SIZE	TRAFFIC ARM A	TRAFFIC ARM B	SIGNAL SPREAD	LOCATION	DISTANCE SIDE REMARKS
C	21'-6"	36'	-	12'	O'DONNELL ST STA 7+93	52' RT.
D	21'-6"	30'	38'	12'	O'DONNELL ST STA 8+28	41' RT.
E	21'-6"	34'	34'	12'	O'DONNELL ST STA 9+28	35' RT.
F	-	-	-	-	O'DONNELL ST STA 10+25	32' RT.
G	-	-	-	-	O'DONNELL ST STA 11+00	33' RT.

UTILITY NOTES

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SPECIAL PROVISIONS "UTILITIES" AND "WORK BY UTILITIES" WITHIN LIMITS OF CONTRACT.
- OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

ELECTRICAL HAND BOXES

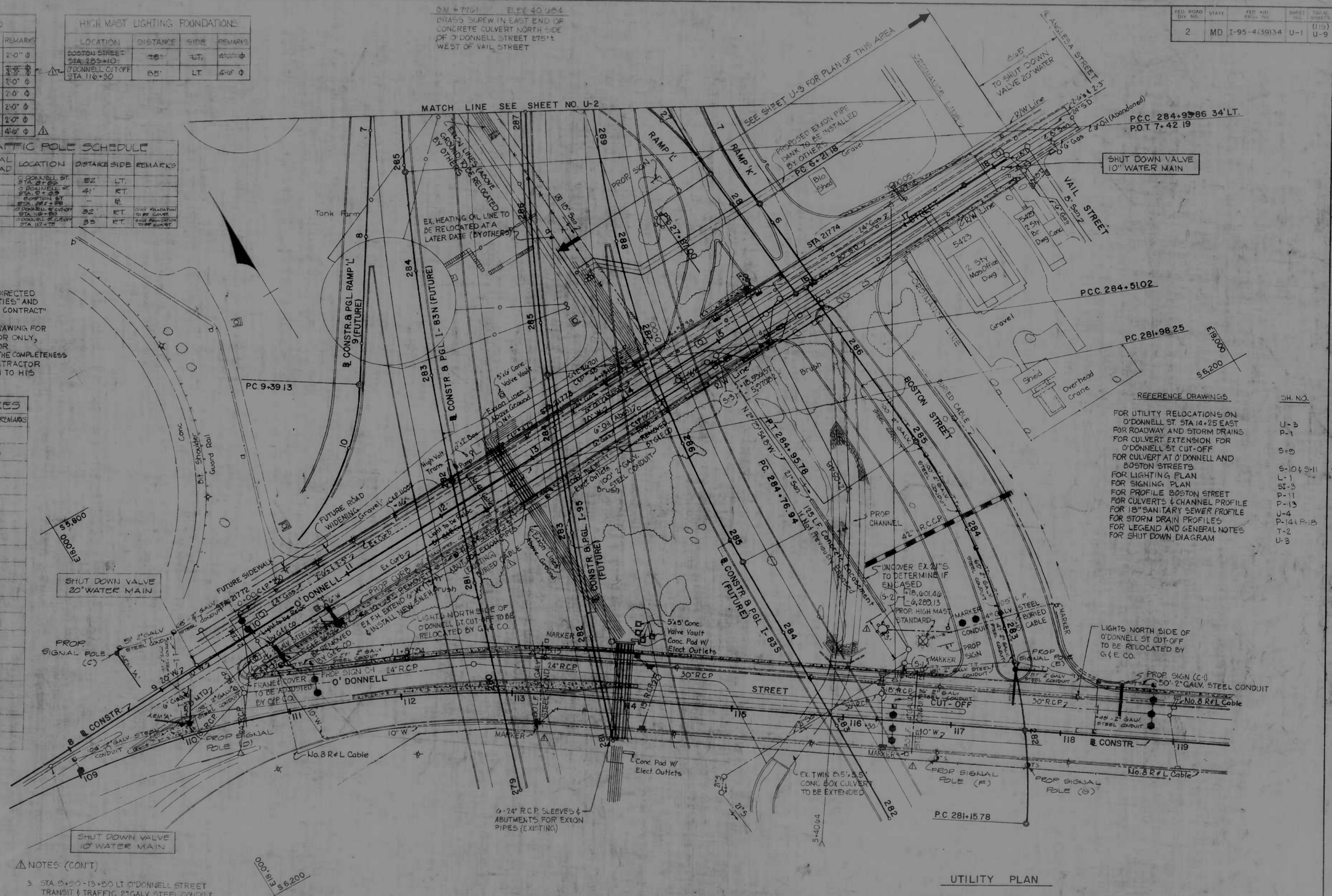
LOCATION	DISTANCE	SIDE	REMARKS
O'DONNELL ST STA 7+93	10'	RT.	
O'DONNELL ST STA 8+28	54'	LT.	
O'DONNELL ST STA 8+28	38'	RT.	
O'DONNELL ST STA 9+28	39'	LT.	
O'DONNELL ST STA 9+28	37'	LT.	
O'DONNELL ST STA 10+25	40'	RT.	
O'DONNELL ST STA 10+25	38'	RT.	
O'DONNELL ST STA 11+00	38'	RT.	
O'DONNELL ST STA 12+20	38'	RT.	
BOSTON ST STA 284+80	-	EQ	
BOSTON ST STA 283+80	-	EQ	
BOSTON ST STA 283+19	-	EQ	
BOSTON ST STA 282+67	-	EQ	
O'DONNELL CUT-OFF STA 10+47	3.50	LT.	
O'DONNELL CUT-OFF STA 10+33	51'	LT.	
O'DONNELL CUT-OFF STA 10+30	4.50	LT.	
O'DONNELL CUT-OFF STA 10+30	52'	LT.	
O'DONNELL CUT-OFF STA 10+80	32'	LT.	
O'DONNELL CUT-OFF STA 11+27	41'	LT.	

SENSOR ELEMENTS

LOCATION	DISTANCE	SIDE	REMARKS
O'DONNELL ST STA 7+28	25'	RT.	
O'DONNELL ST STA 8+28	34.15'	LT.	
O'DONNELL CUT-OFF STA 11+27	4.27'	LT.	
O'DONNELL CUT-OFF STA 10+47	3'	LT.	
O'DONNELL CUT-OFF STA 10+47	7.12'	RT.	
O'DONNELL CUT-OFF STA 10+10	5.31'	LT.	
BOSTON ST STA 283+29	35'	LT.	
BOSTON ST STA 283+29	23.50'	LT.	

NOTES (CONT)

- STA 9+20-13+30 LT O'DONNELL STREET TRANSIT & TRAFFIC 2" GALV STEEL CONDUIT TO BE PLACED 5'-6" BEHIND FACE OF CURB.
- DIRECT BURIAL CABLE TO BE PLACED 6'-0" BEHIND FACE OF CURB.

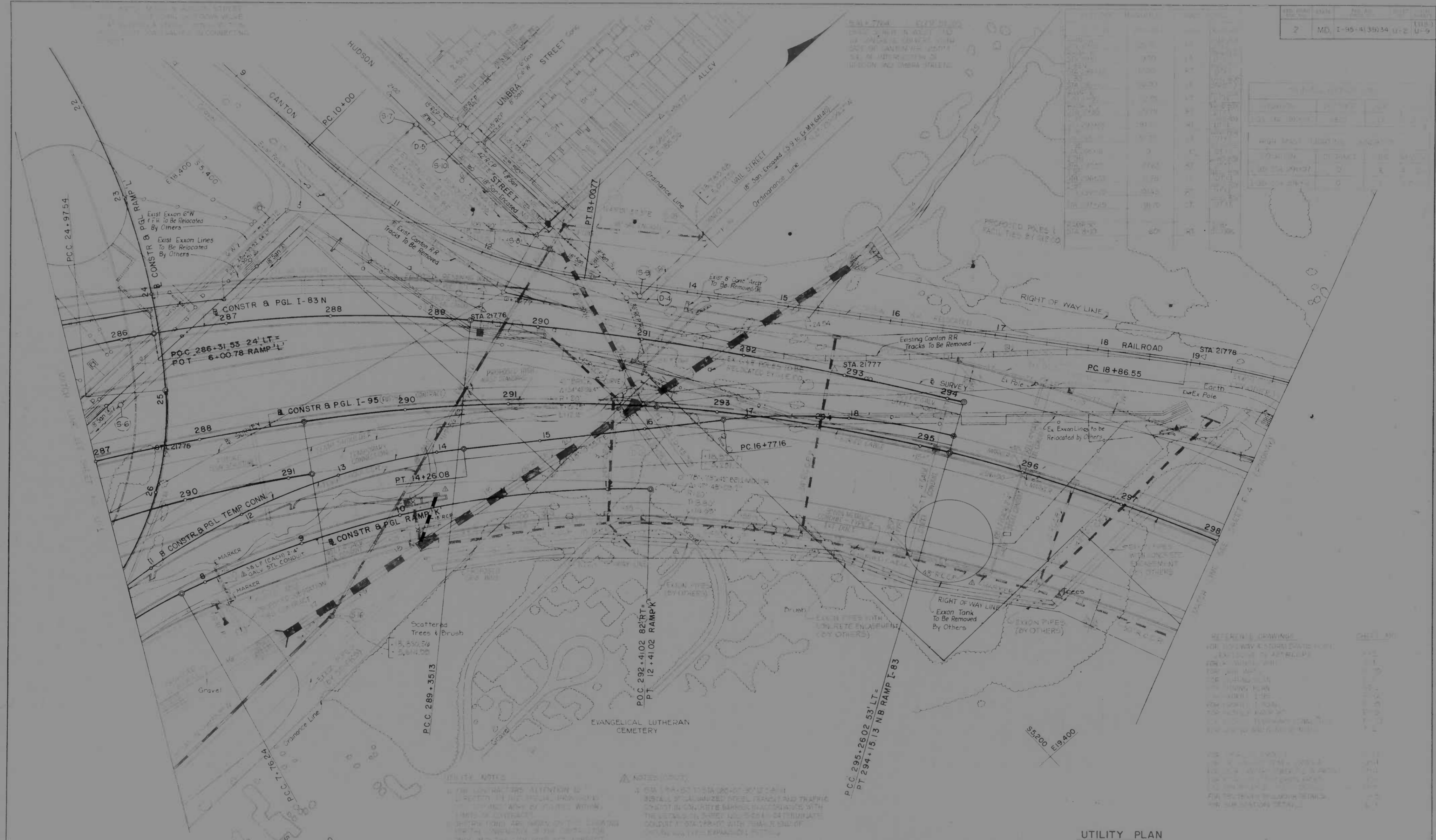


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	U-1	(119) U-9

REFERENCE DRAWINGS	SH. NO.
FOR UTILITY RELOCATIONS ON O'DONNELL ST STA 14+25 EAST FOR ROADWAY AND STORM DRAINS FOR CULVERT EXTENSION FOR O'DONNELL ST CUT-OFF FOR CULVERT AT O'DONNELL AND BOSTON STREETS	U-3 P-1 S-2
FOR LIGHTING PLAN FOR SIGNING PLAN FOR PROFILE BOSTON STREET FOR CULVERTS & CHANNEL PROFILE FOR 18" SANITARY SEWER PROFILE FOR STORM DRAIN PROFILES FOR LEGEND AND GENERAL NOTES FOR SHUT DOWN DIAGRAM	S-10 & S-11 L-1 SI-3 P-11 P-13 U-4 P-14 & P-15 T-2 U-3

UTILITY PLAN

REVISIONS Δ REVISED 7-15-74	CONSULTANT KROEGER, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 343 N CALVERT STREET BALTIMORE, MARYLAND 21201	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY: J.W.S. TRACED BY: J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998
SCALE 1"=40' DATE MAY 11, 1973		SHEET NO. U-1 OF U-9	



NOTES:

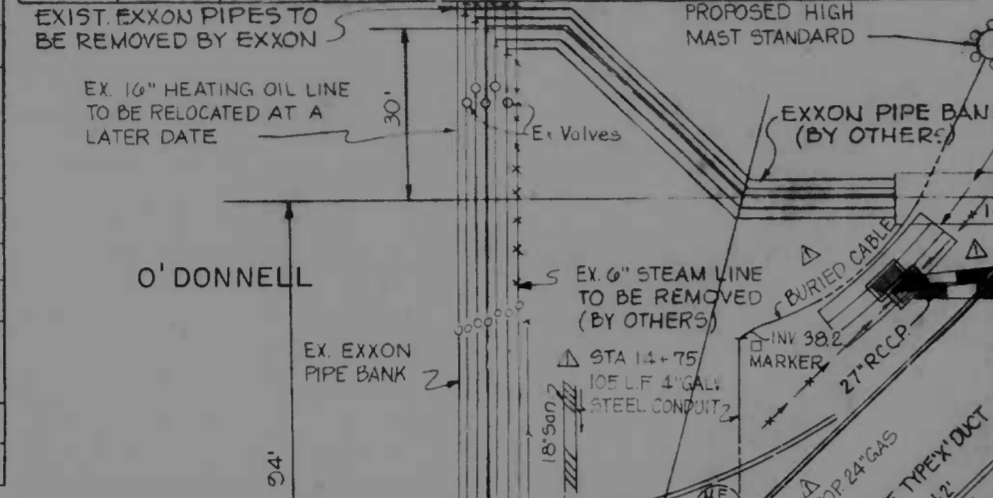
- SEE PLAN FOR EXISTING UTILITY LOCATIONS AND DEPTHS.
- SEE PLAN FOR EXISTING EXON PIPE BANK RAMP I & BARRIER CURB.
- SEE PLAN FOR EXISTING EXON PIPE BANK RAMP I & BARRIER CURB.
- SEE PLAN FOR EXISTING EXON PIPE BANK RAMP I & BARRIER CURB.
- SEE PLAN FOR EXISTING EXON PIPE BANK RAMP I & BARRIER CURB.

UTILITY PLAN

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. REVISE EXON PIPE BANK RAMP I & BARRIER CURB.	ANDRELL BENJER, STONE & ASSOC., INC.	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY A.L. CHECKED BY J.W.S.
2. REVISE EXON PIPE BANK RAMP I & BARRIER CURB.	MATZ, CHILDS & ASSOC., INC.		DES. BY A.L. CHK. BY J.L.C.
3. REVISE EXON PIPE BANK RAMP I & BARRIER CURB.	341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	SCALE: 1" = 40'	DATE: MAY 14, 1973
4. REVISE EXON PIPE BANK RAMP I & BARRIER CURB.			PROJECT NO. I-95-4135/34
5. REVISE EXON PIPE BANK RAMP I & BARRIER CURB.			SHEET NO. 246-28/810
6. REVISE EXON PIPE BANK RAMP I & BARRIER CURB.			BALTO. CITY NO. 1976

LOCATION	DISTANCE	SIDE	REMARKS
O'DONNELL ST STA 13+21.5	10.50'	LT	SEE DETAIL SH U-7
O'DONNELL ST STA 13+07	10.50'	LT	TYPE 'X' (12" x 14" x 17")
RAMP 'L' STA 2+20	4.0'	LT	HANDBOX D.T. & T.
RAMP 'L' STA 2+50	7.0'	LT	
RAMP 'X' STA 9+17	27.0'	RT	
O'DONNELL ST STA 13+29	35.0'	RT	
O'DONNELL ST STA 14+29	35.0'	RT	
O'DONNELL ST STA 16+42	37.0'	RT	
O'DONNELL ST STA 16+23	29.0'	RT	
O'DONNELL ST STA 16+23	38.0'	LT	
O'DONNELL ST STA 17+10	34.50'	LT	
BOSTON ST STA 285+20	-	-	
BOSTON ST STA 285+20	41.50'	RT	
BOSTON ST STA 285+20	5.0'	LT	HAND BOX D.T. & T.
O'DONNELL ST STA 14+27	7.5'	LT	HAND BOX D.P.W.
O'DONNELL ST STA 18+23	10.0'	LT	HANDBOX D.P.W.

POLE IDENT	POLE SIZE	TRAFFIC ARM "A"	TRAFFIC ARM "B"	SIGNAL SPREAD	LOCATION	DISTANCE	SIDE	REMARKS
A	21'-6"	30'	34'	12'	RAMP 'L' STA 28+55	7'	LT	
B	21'-6"	27'	36'	12'	BOSTON ST STA 285+20	3'	LT	



FOR CONTINUATION SEE SHEET NO U-1

LOCATION	DISTANCE	SIDE	REMARKS
I-95 STA 285+10	45'	RT	4'-6" Ø



TEST PIT NO.	LOCATION		TYPE UTILITY	ELEVATIONS		COVER	REMARKS
	STATION	OFFSET		EXIST	TOP OF GROUND UTILITY		
1	14+92.5	5.0' RT	10" CI WATER MAIN	39.87	37.09	2'78"	BELL 1914-95 WITH BELL DOWN STATION
2	14+94	11.0' RT	CONC ENCASE 8" SAN	39.20	28.30	10.90'	UNABLE TO LOCATE 20" WATER
3	5+39.5	5.0' RT	10" CI WATER MAIN	39.67	37.80	1.87'	NO BELLS WITHIN 4' (BACK)
4	5+45.5	27.1' RT	20" CI WATER MAIN	40.23	30.91	9.32'	NO BELLS WITHIN 6' (BACK)
5	16+50	9.7' RT	6" STEEL OIL LINE (ABAND)	40.50	35.40	5.10'	SEE REMARK FOR TEST PIT NO. 11
6	17+17.5	5.0' RT	10" CI WATER MAIN	42.14	39.13	3.01'	BELL 171495 WITH BELL DOWN STATION
7	17+67	14.7' LT	24" M.J. GAS MAIN (N3)	43.80	40.26	3.60'	
8	17+67	9.1' LT	ME CONC DUCT 2'-6" x 2'-3"	44.01	41.61	2.40'	
9	17+76	5.2' RT	10" CI WATER MAIN	43.99	40.31	3.68'	BELL 171795 WITH BELL UP STATION
10	17+76	7.7' RT	20" CI WATER MAIN	43.97	39.37	4.60'	
11	17+76	2.6' RT	16" STEEL OIL LINE (ABAND)	43.96	39.16	4.80'	LINE WAS TAPPED FOUND DRY
12	17+76	12.7' RT	6" CI GAS MAIN (N3)	43.94	40.24	3.70'	

NOTES (CONT)

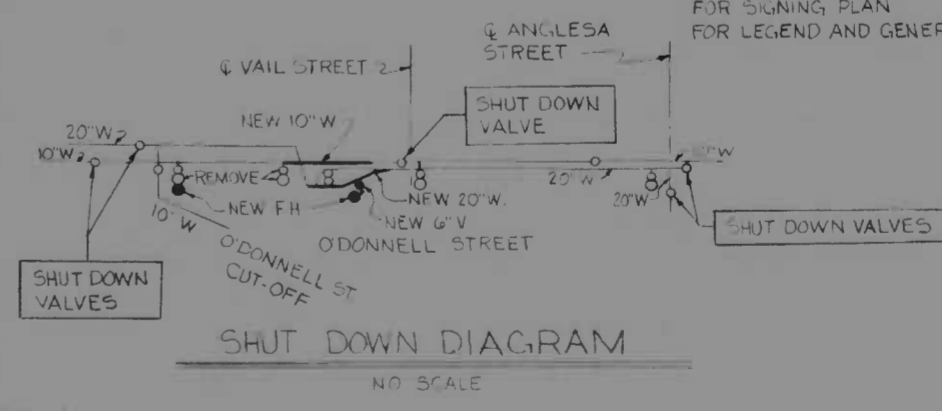
LOCATION	DISTANCE	SIDE	REMARKS
BOSTON ST STA 285+25	17'	RT	
BOSTON ST STA 285+25	31'	RT	
RAMP 'L' STA 28+20	6'	RT	
RAMP 'L' STA 28+20	21'	RT	
O'DONNELL ST STA 17+15	8'	LT	
O'DONNELL ST STA 17+15	13'	LT	
O'DONNELL ST STA 14+23	6' 7"	RT	
O'DONNELL ST STA 14+23	11' 6"	RT	

LOCATION	DISTANCE	SIDE	REMARKS
O'DONNELL ST STA 17+10	11' 30"	LT	4'-6" Ø
O'DONNELL ST STA 17+10	39' 00"	RT	2'-0" Ø
O'DONNELL ST STA 17+10	41' 70"	RT	2'-0" Ø
O'DONNELL ST STA 15+28	32' 30"	LT	1'-6" Ø
O'DONNELL ST STA 15+28	39' 20"	LT	1'-6" Ø

- UTILITY NOTES
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SPECIAL PROVISIONS FOR "UTILITIES," "UTILITY STANDARD PRACTICES," "WORK BY UTILITIES" WITHIN LIMITS OF CONTRACT AND "SUGGESTED SEQUENCE OF CONSTRUCTION AT O'DONNELL ST."
 - OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.
 - THE CONTRACTOR SHALL STRIVE TO RELOCATE AND RESTORE SERVICE WITH A MAX 48 HR SHUT DOWN DURING INSTALLATION OF THE 20" WATER MAIN. HOWEVER, THE 10" WATER MAIN CAN BE CAPPED EAST AND WEST OF RELOCATION AREA DURING THE ENTIRE PERIOD OF CONSTRUCTION, UNTIL TIE-IN.
 - PRIOR TO REMOVING THE SOUTH & WEST WALLS OF THE EXISTING ME MANHOLE NO. 1, THE CONTRACTOR SHALL LOCATE THE EXISTING BUTTRESS.
 - THIS BUTTRESS WILL REQUIRE HIGH EARLY STRENGTH CONCRETE WITH ULTIMATE COMPRESSIVE STRENGTH OF 4500 PSI USING 7 1/2 BAG CONCRETE MIX.
 - THE CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION AT BOTH MECHANICAL ELECTRICAL MANHOLES. CLEARANCE IS MINIMAL AND THE EXACT LOCATION OF THE EXISTING 20" WATER MAIN BUTTRESS HAS NOT BEEN ESTABLISHED. TEMPORARY REROUTING OF THE MECHANICAL ELECTRICAL FACILITIES (BY GAS & ELECTRIC CO. FORCES) SHALL BE ACCOMPLISHED PRIOR TO COMMENCING WORK ON THE MECHANICAL ELECTRICAL SERVICES IN O'DONNELL STREET.
 - A WORKING PRESSURE OF 80 P.S.I. AND A TEST PRESSURE OF 150 P.S.I. SHALL BE USED FOR WATER MAIN DESIGN.
 - SEWER SERVICES AND STORM DRAINS MUST BE MAINTAINED DURING CONSTRUCTION.
 - EXTREME CARE MUST BE MAINTAINED TO PROTECT THE EXXON PIPE BANK AT ALL TIMES.

PT.	EAST	SOUTH	TANGENT BEARING
S-3	+18,596.57	-5,270.82	N 2° 56' 31.7" W
S-11	+18,596.09	-5,260.84	N 42° 03' 28.3" E
S-14	+18,620.20	-5,254.08	N 87° 03' 15.4" E
S-15	+18,480.09	-5,222.35	N 3° 15' 53.7" W
S-16	+18,830.50	-5,614.29	N 66° 51' 29.6" E
S-12	+18,655.52	-5,248.77	N 86° 51' 29.6" E
S-13	+18,757.36	-5,243.13	N 86° 51' 29.6" E
S-15	+18,942.03	-5,233.04	N 86° 51' 29.6" E
D-1	+18,672.13	-5,241.00	N 87° 17' 13.4" E
CUT-IN	+18,748.27	-5,238.30	N 87° 17' 13.4" E
D-2	+18,921.21	-5,230.07	N 87° 17' 13.4" E
ME 1	+18,528.47	-5,232.68	N 86° 52' 12.9" E
ME 2	+18,513.56	-5,233.43	FOR EX MK DUCT

- REFERENCE DRAWINGS
- FOR UTILITY PLAN WEST AND SOUTH U-1
 - FOR UTILITY PLAN NORTH U-2
 - FOR PROFILE 18" SANITARY TRUNK SEWER RELOCATION U-4
 - FOR PROFILES OF 20" AND 10" WATER MAIN RELOCATION U-5
 - FOR PROFILE 30" STORM DRAIN CONNECTION U-5
 - FOR PROFILE 8" SANITARY RELOCATION U-6
 - FOR PROFILE MECHANICAL-ELECTRICAL DUCT U-6
 - FOR UTILITY RELOCATION DETAILS FOR ROADWAY AND STORM DRAIN PLAN FOR TWIN 6.5' x 5.5' CONCRETE BOX U-7 & U-9
 - CULVERT PLAN P-1
 - FOR TWIN 6.5' x 5.5' CONCRETE BOX CULVERT PROFILE P-13
 - FOR LIGHTING PLAN L-1
 - FOR SIGNING PLAN SI-3
 - FOR LEGEND AND GENERAL NOTES T-2

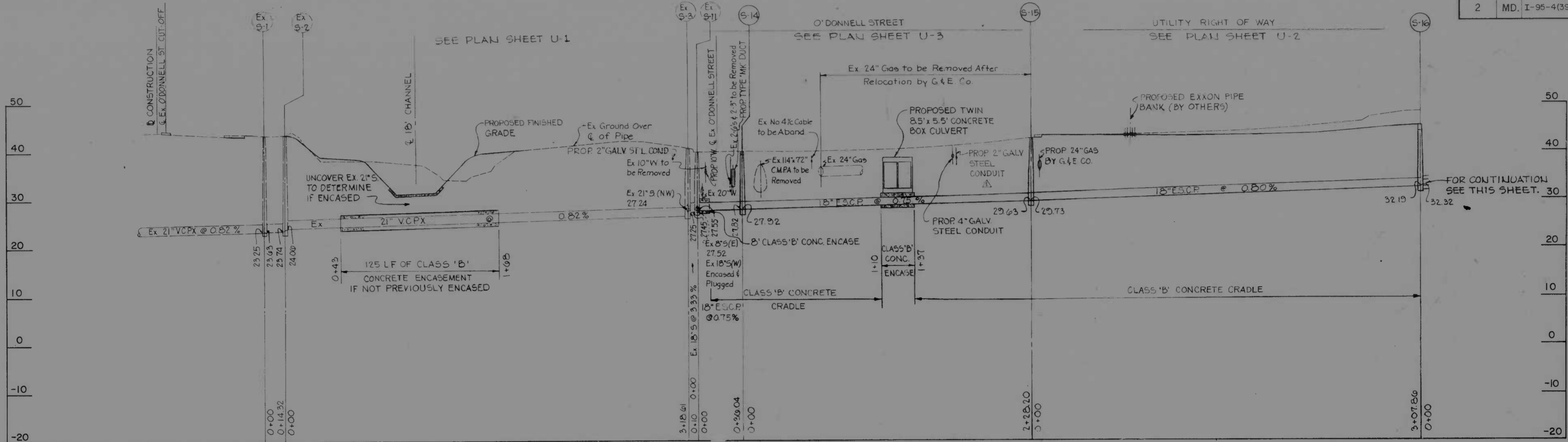


UTILITY PLAN

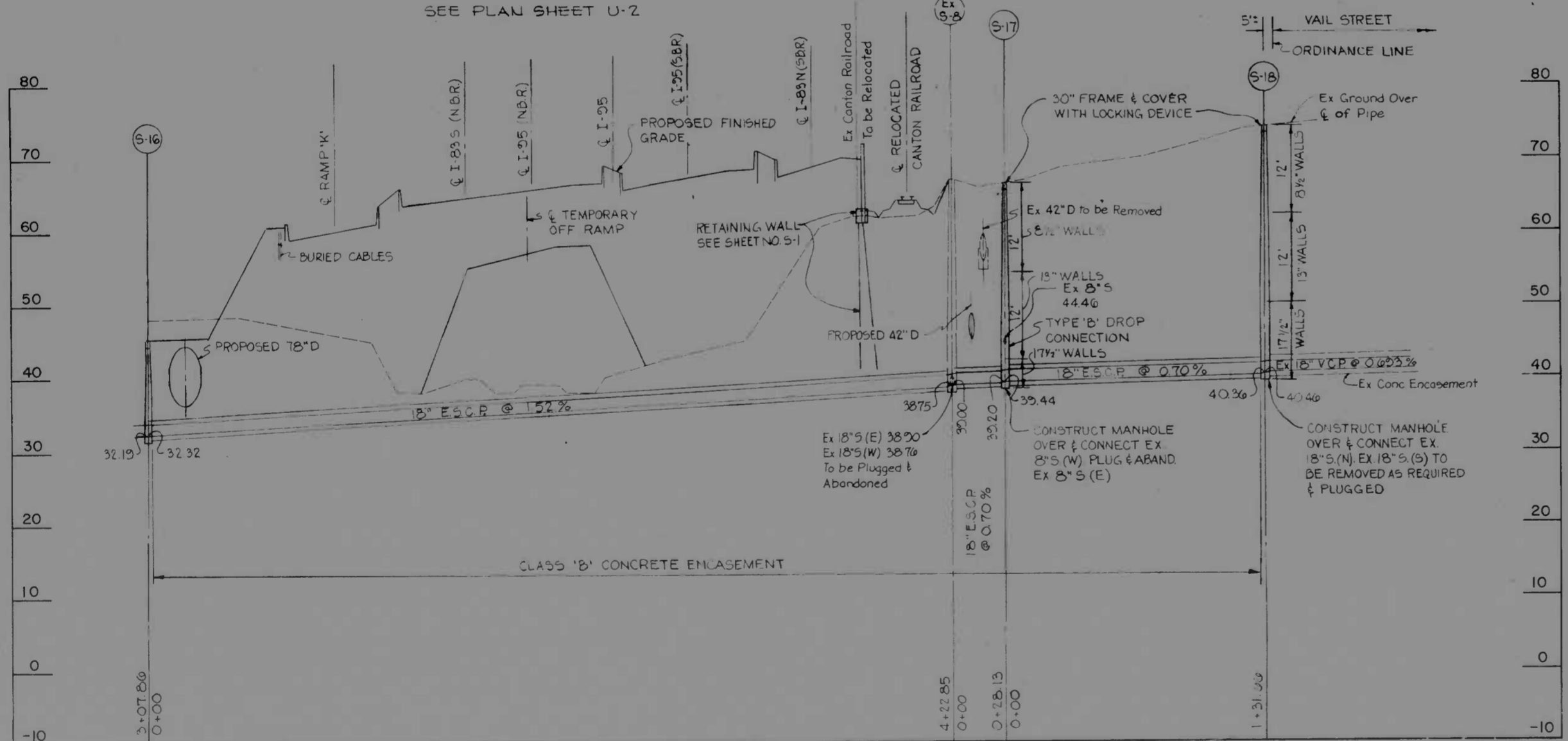
REVISIONS REVISED TO ADD BURIED CABLE REVISED DRAINAGE ADDED PROP 24" GAS REVISED SANITARY LOCATION 7/15/74	CONSULTANT KNORR, BENDER, STONE & ASSOC., INC. AND MATZ, CHEDS & ASSOC., INC. CONSULTING ENGINEERS 841 N CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY

SCALE: 1" = 20' DATE: MAY 11, 1973

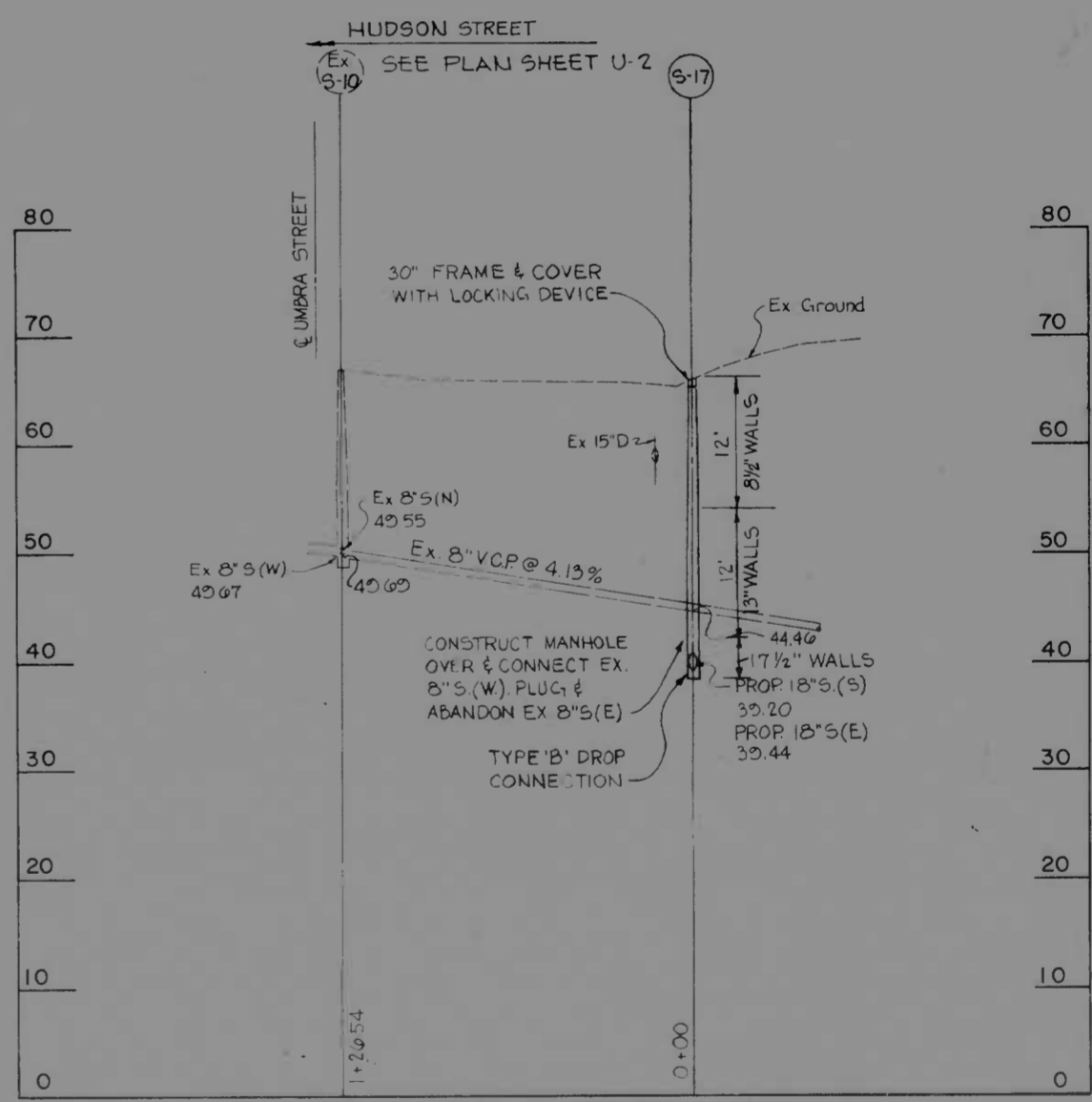
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	U-4	(119)



18" SANITARY TRUNK SEWER RELOCATION
VAIL STREET TO O'DONNELL STREET



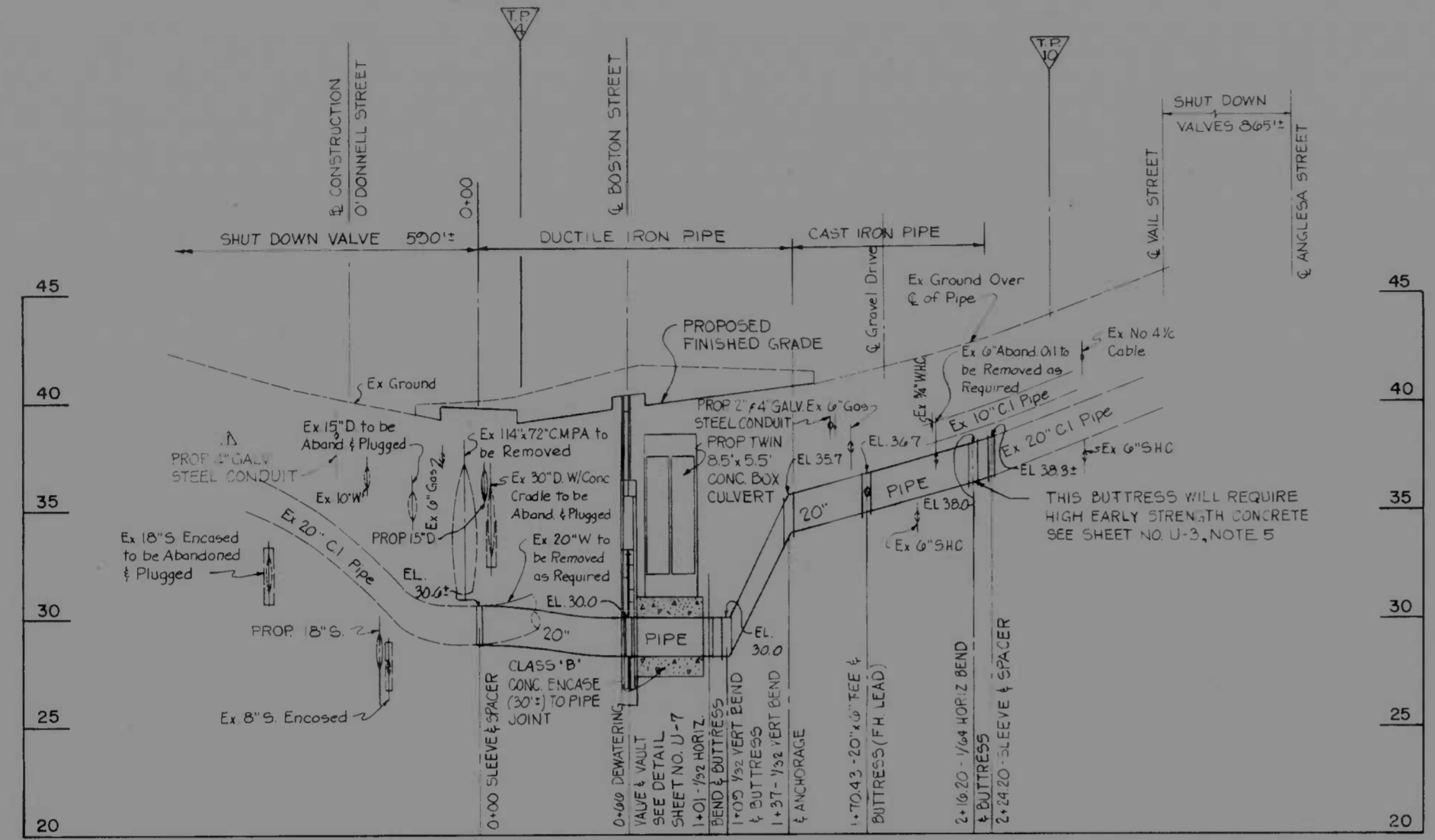
18" SANITARY TRUNK SEWER RELOCATION
VAIL STREET TO O'DONNELL STREET



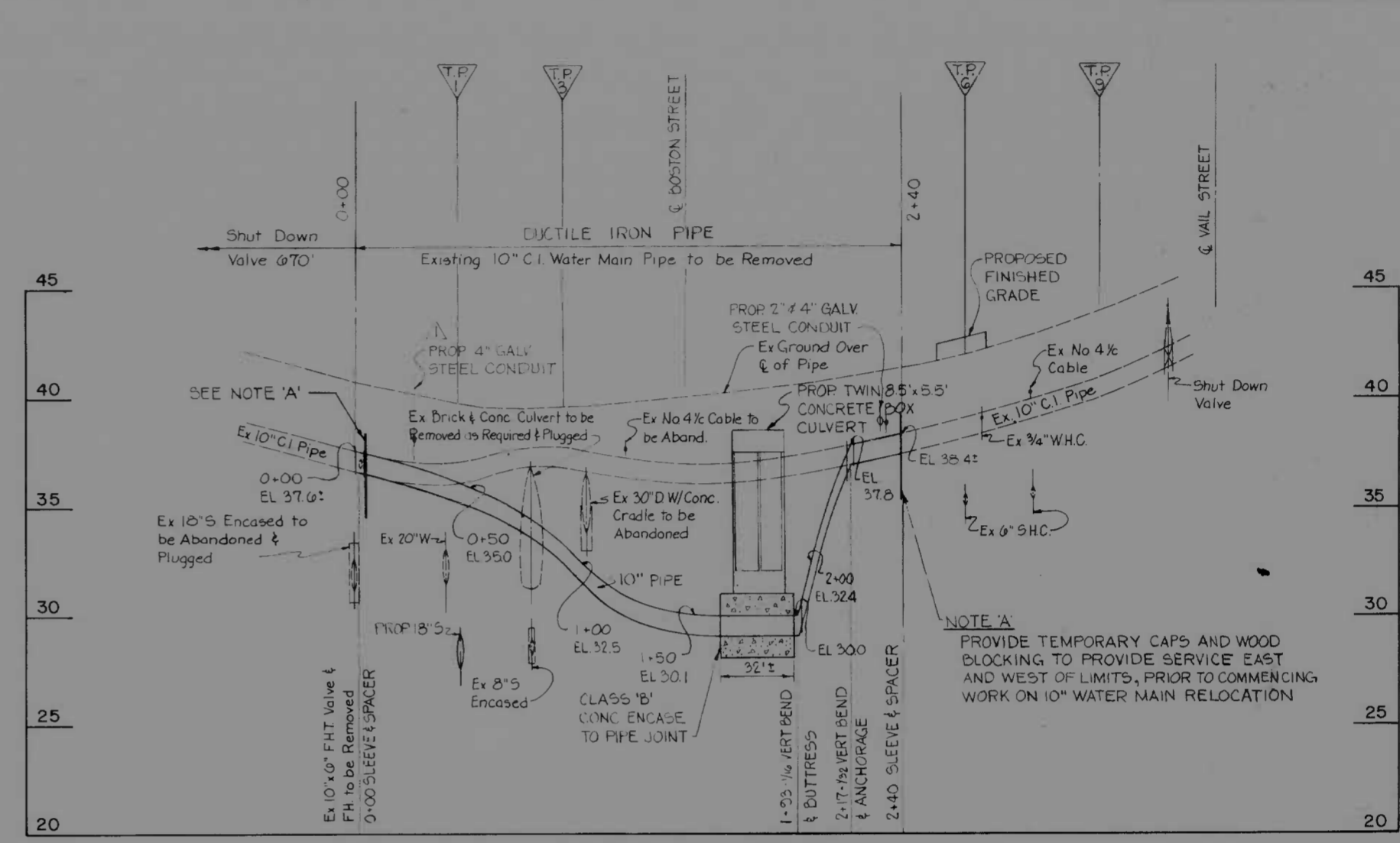
8" SANITARY SEWER RELOCATION
UMBRA STREET TO TRUNK SEWER

REVISIONS Δ REVISED TO ADD CONDUIT 7-15-74	CONSULTANT WENZEL, BENDER, STONE & ASSOC., INC. AND MATZ, CARLOS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21207	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
			DRAWN BY J.W.S. TRACED BY J.W.S.	DES. BY A.L. CHK. BY J.L.C.
SCALE: HOR. 1"=40', VERT. 1"=10'		DATE: MAY 11, 1973	BALTO. CITY NO. 1998	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	U-5	U-9

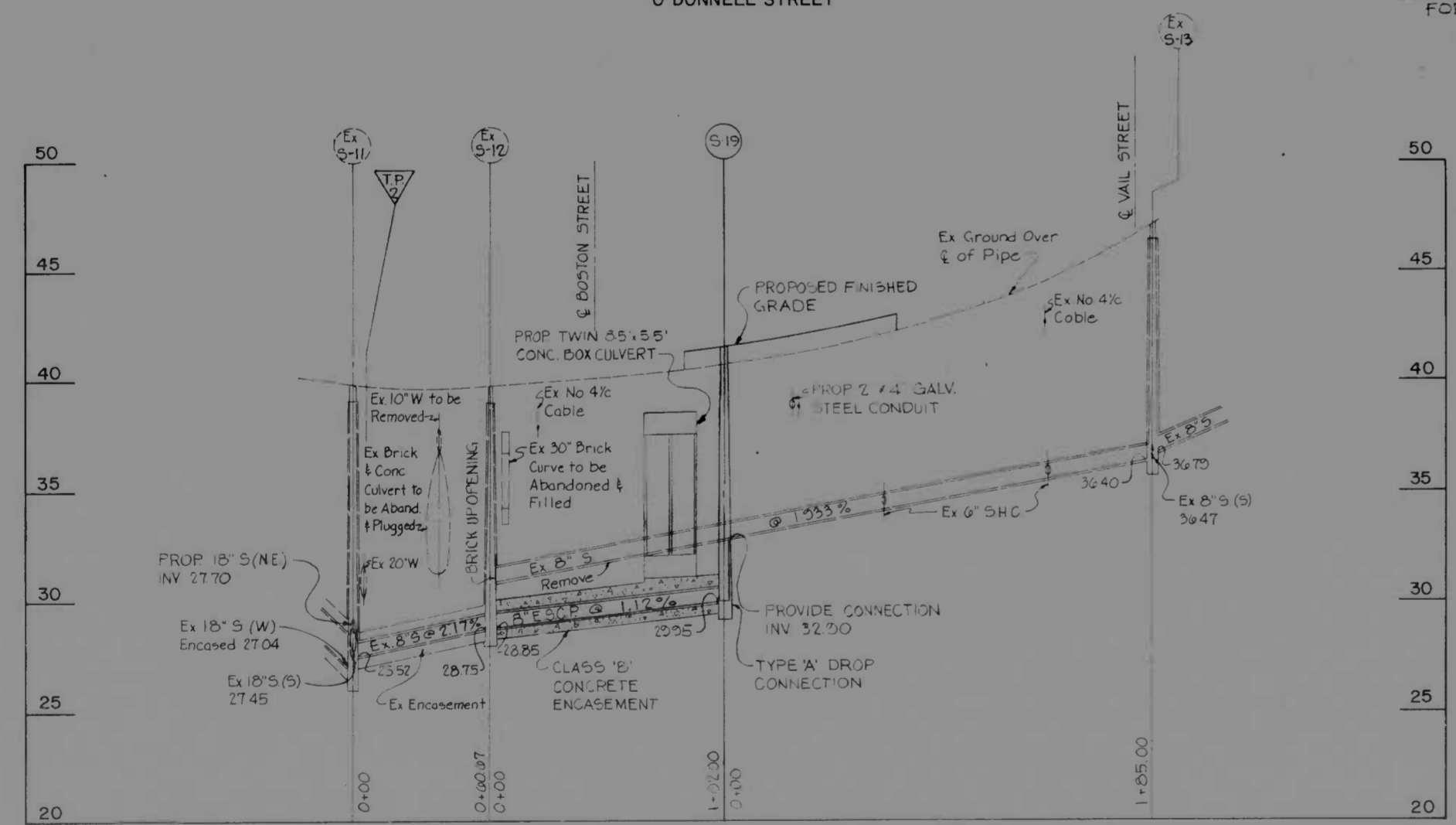


20" WATER MAIN RELOCATION
O'DONNELL STREET

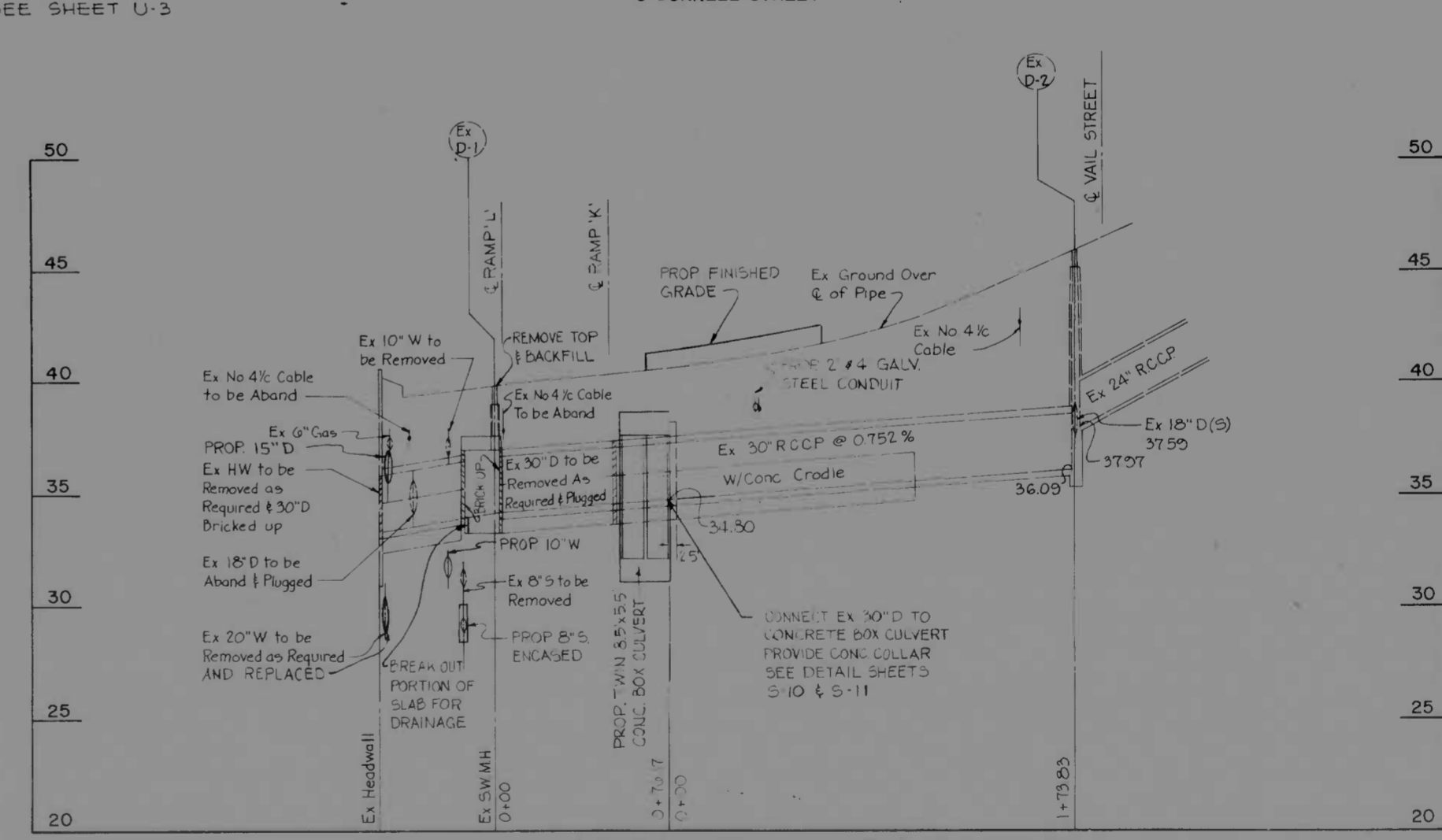


10" WATER MAIN RELOCATION
O'DONNELL STREET

NOTE: FOR PLAN SEE SHEET U-3



8" SANITARY RELOCATION
O'DONNELL STREET

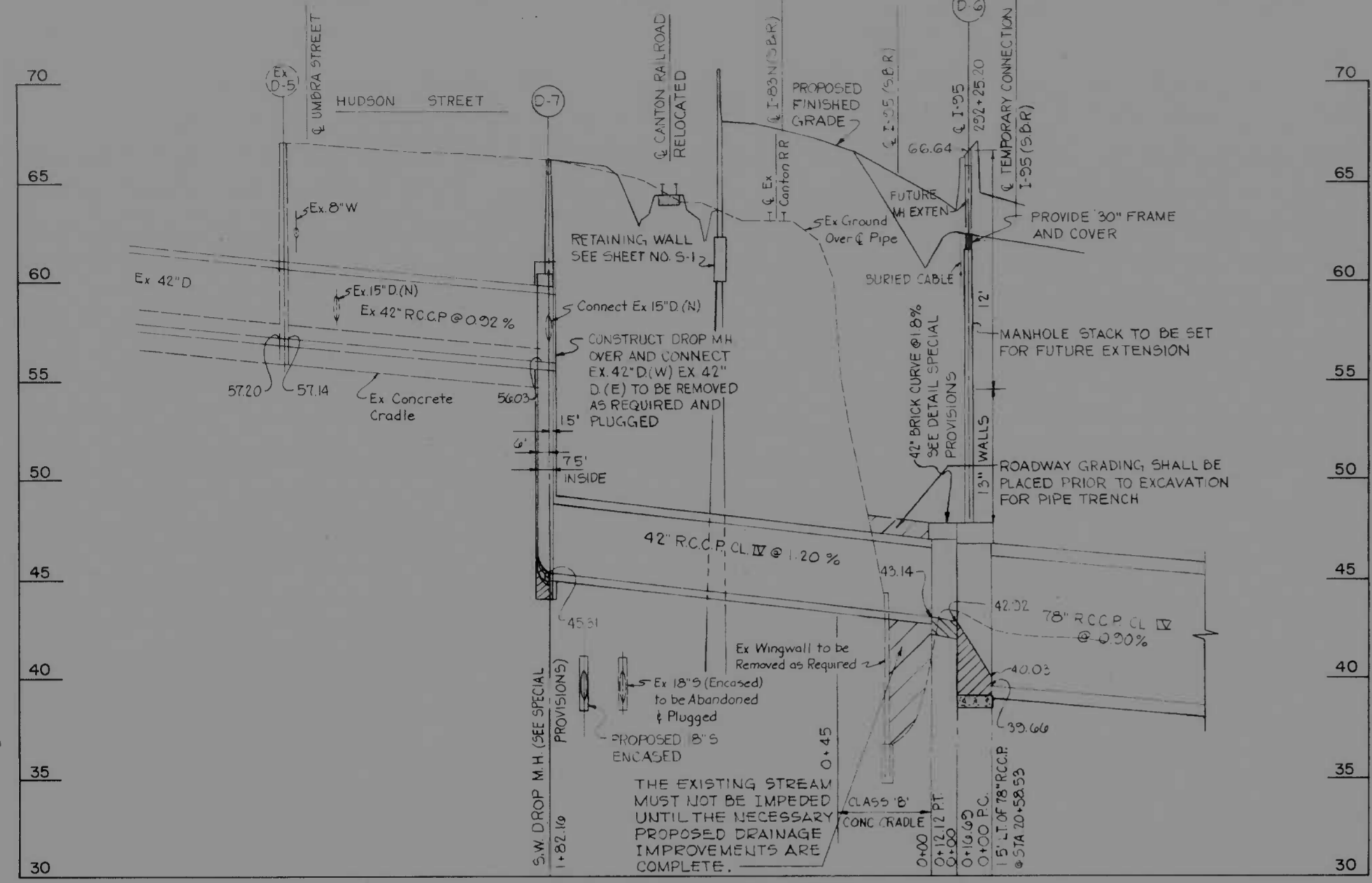


30" STORM WATER CONNECTION
O'DONNELL STREET

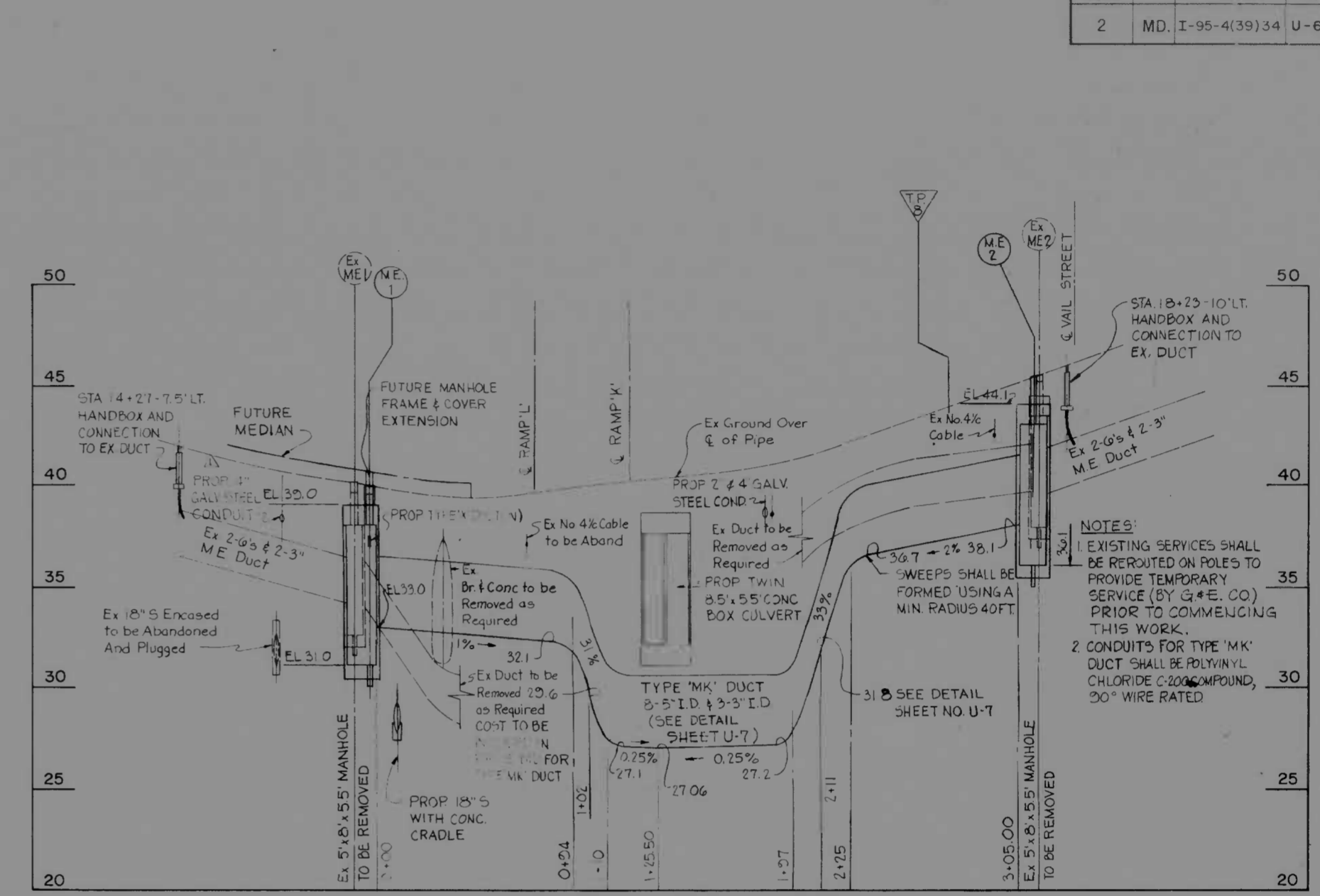
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
REVISED TO ADD CONDUIT 7-15-74	MATZ, CHILDS & JONES, INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: J.W.S. TRACED BY: J.W.S. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-815 BALTO. CITY NO. 1998

SCALE: HOR. 1"=40', VERT. 1"=4'
DATE: MAY 11, 1973
SHEET NO. (119)
U-5 OF U-9

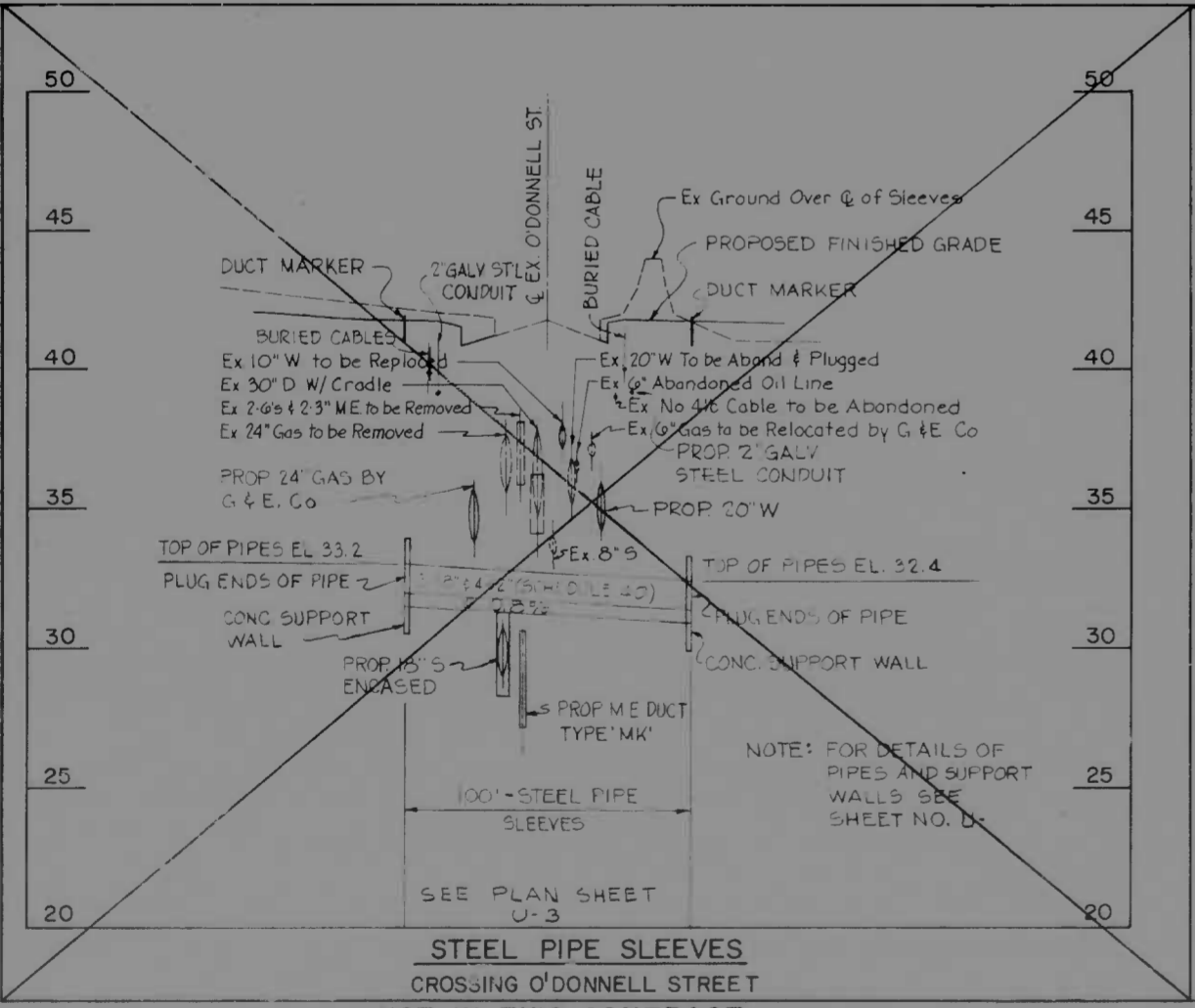
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(39)34	U-6	(119) U-9



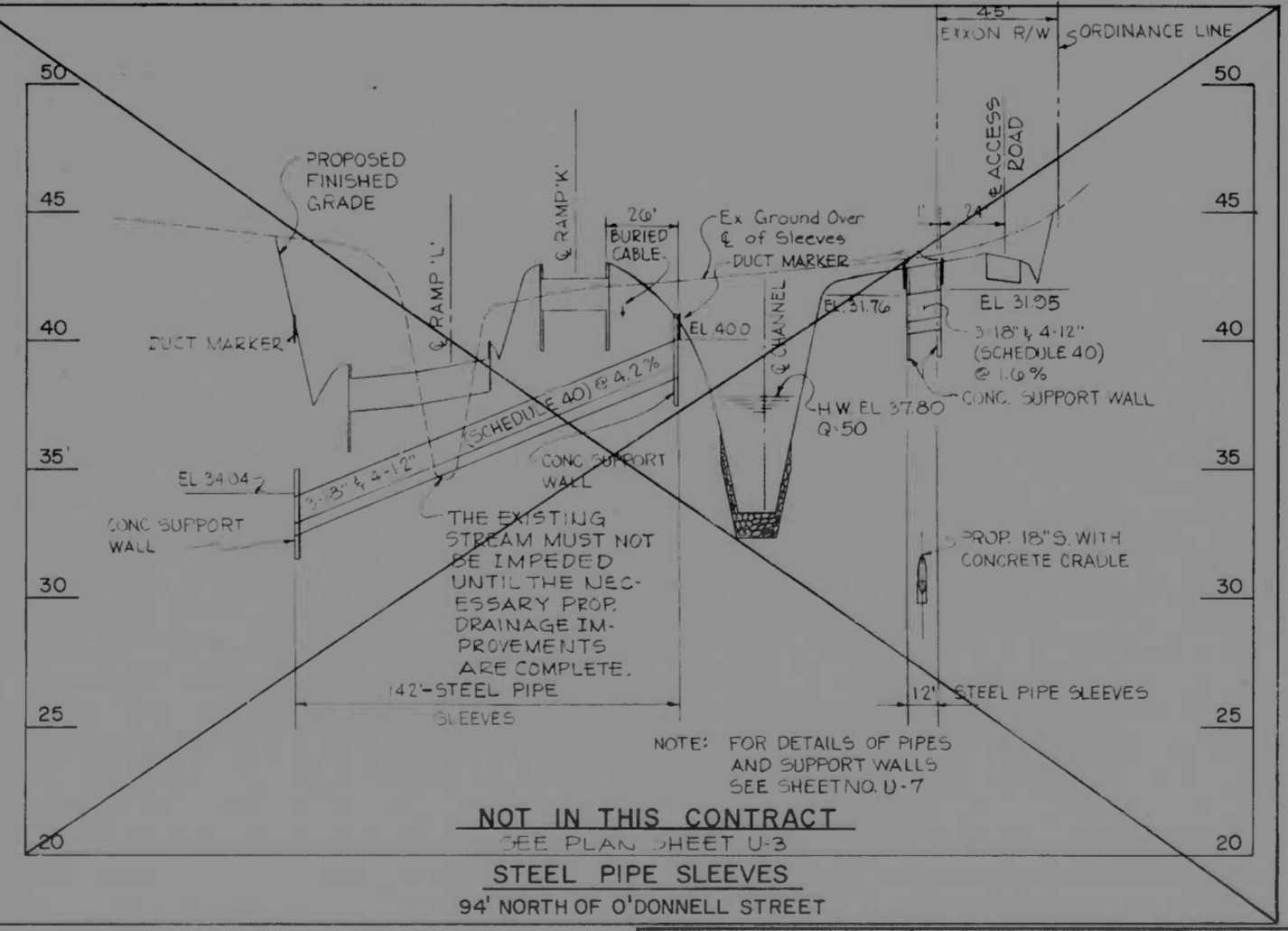
42" STORM WATER RELOCATION
 UMBRA STREET TO 78" CULVERT
 SEE PLAN SHEET U-2



MECHANICAL-ELECTRICAL DUCT
 O'DONNELL STREET
 SEE PLAN SHEET U-3



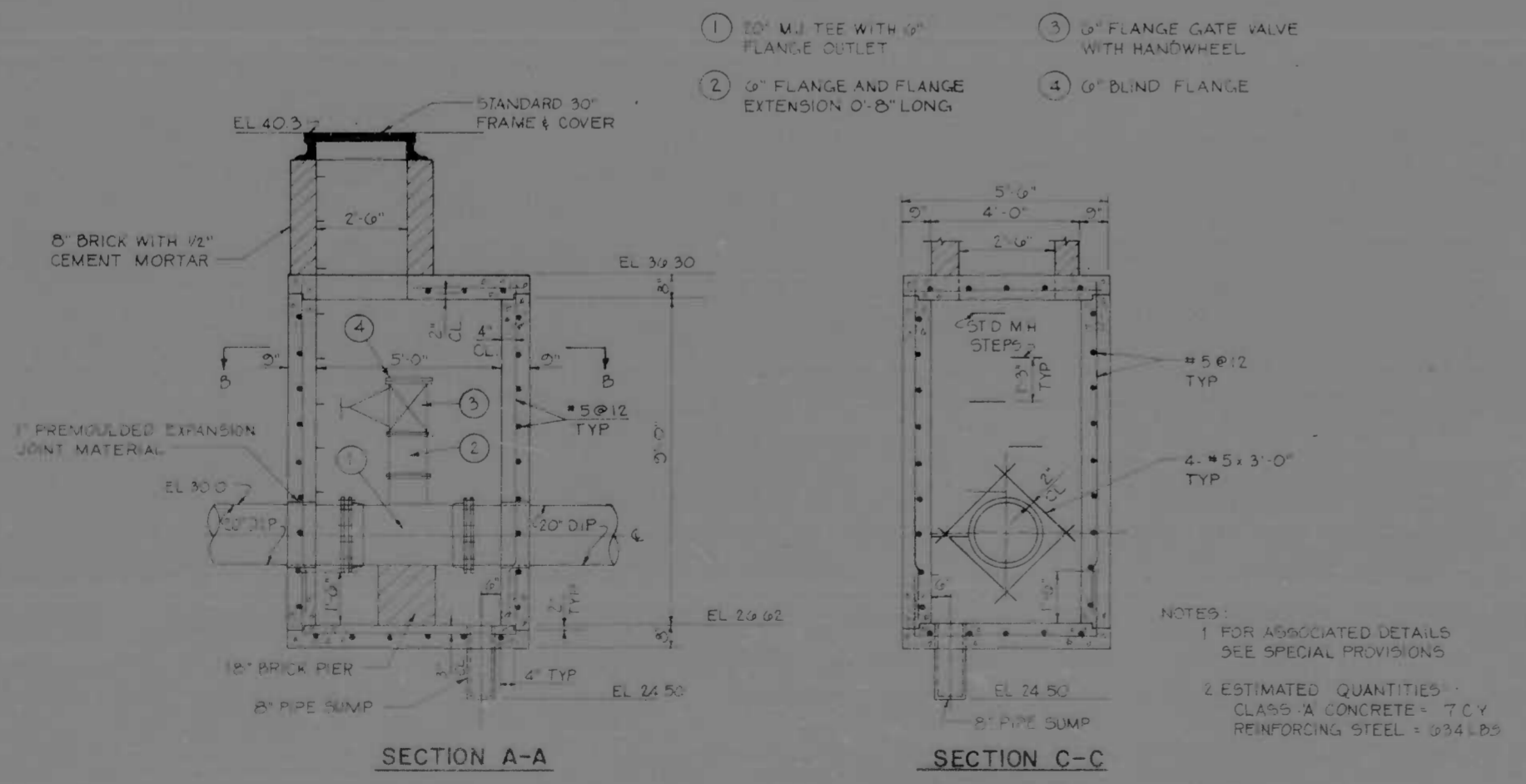
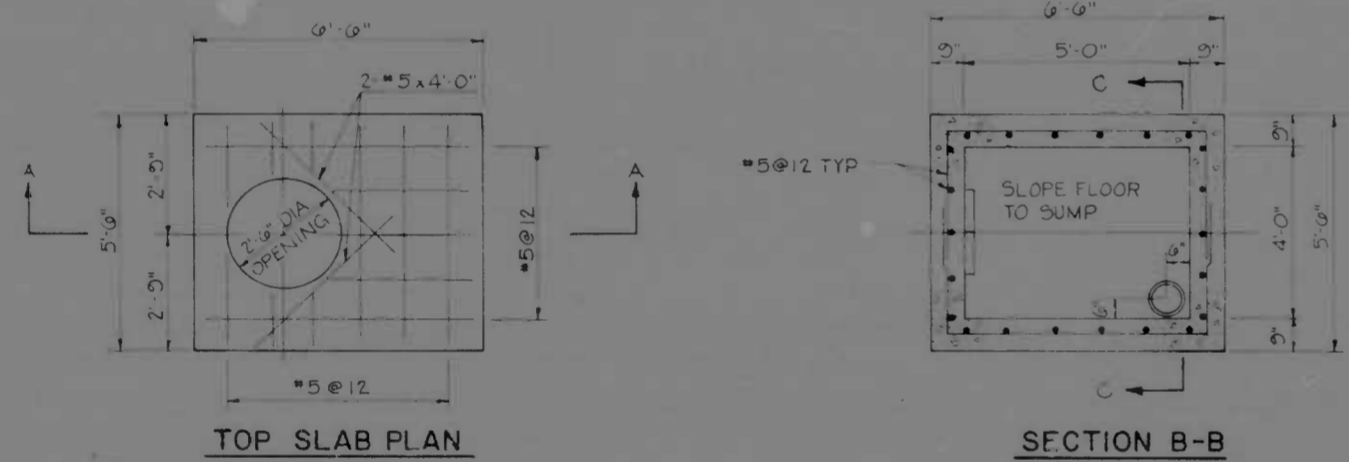
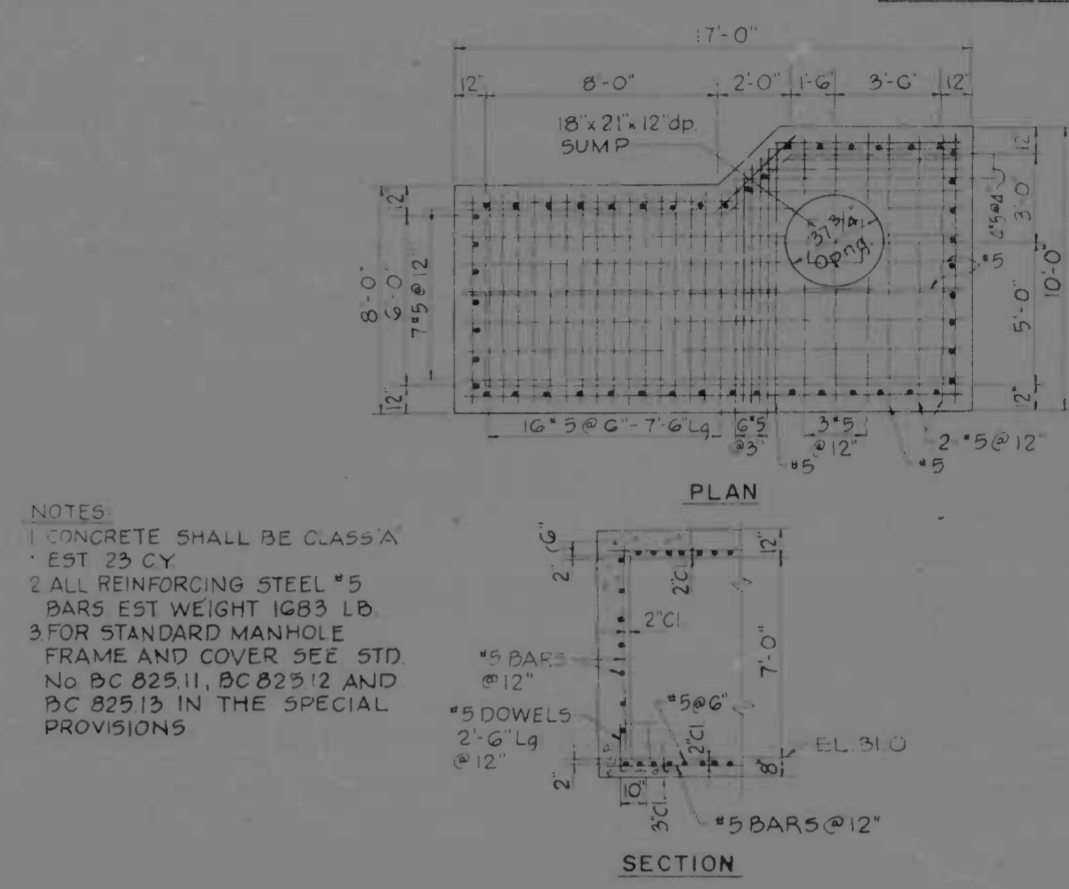
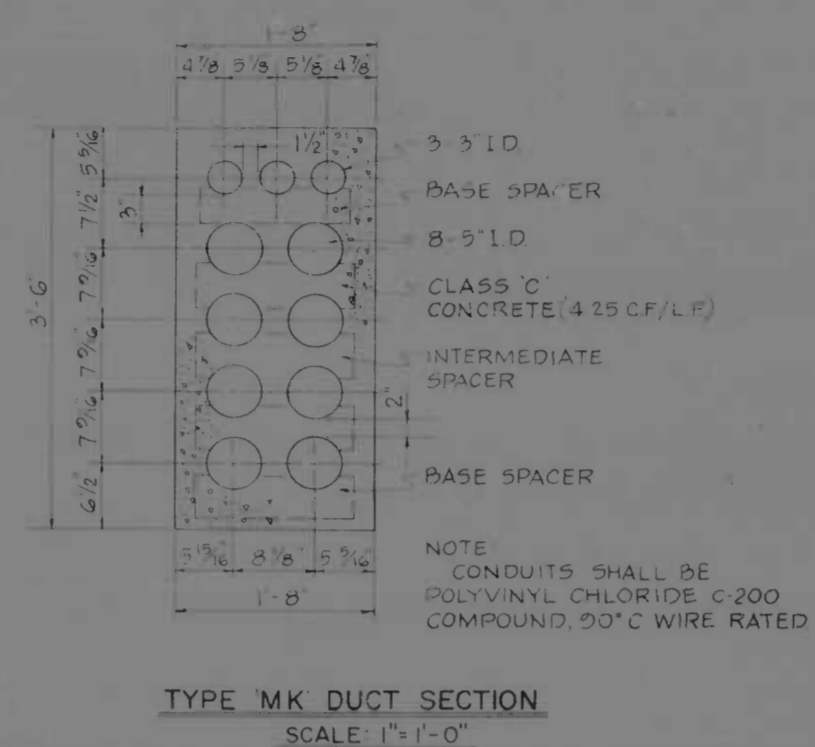
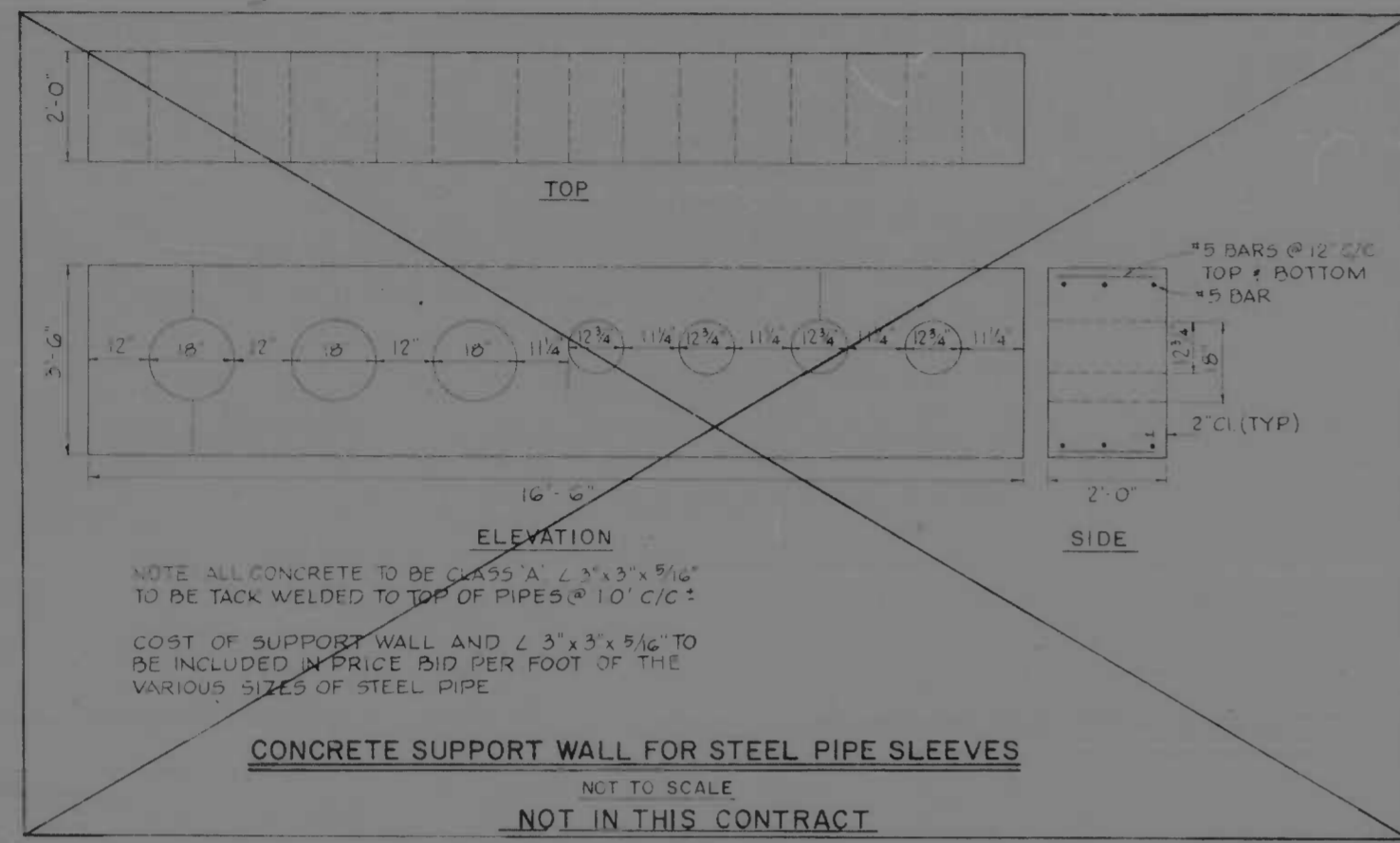
STEEL PIPE SLEEVES
 CROSSING O'DONNELL STREET
 NOT IN THIS CONTRACT



NOT IN THIS CONTRACT
 SEE PLAN SHEET U-3
STEEL PIPE SLEEVES
 94' NORTH OF O'DONNELL STREET

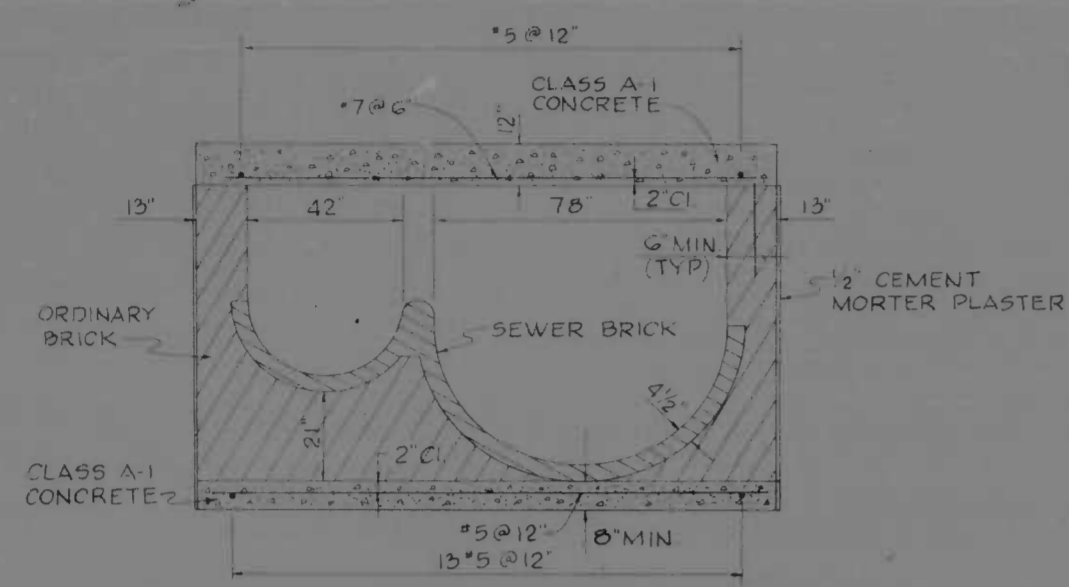
REVISIONS REVISED TO ADD CONDUIT 7/5/73	CONSULTANT BUNGER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET		DRAWN BY J.W.S. TRACED BY J.W.S.	DES. BY A.L. CHK. BY J.L.C.
SCALE: HOR. 1"=40', VERT. 1"=4' DATE: MAY 11, 1973		F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC.246-36-815 BALTO. CITY NO. 1998		SHEET NO. (119) U-6 OF U-9	

FILE NUMBER	STATE	FILE NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(39)34	U-7	(119) U-9

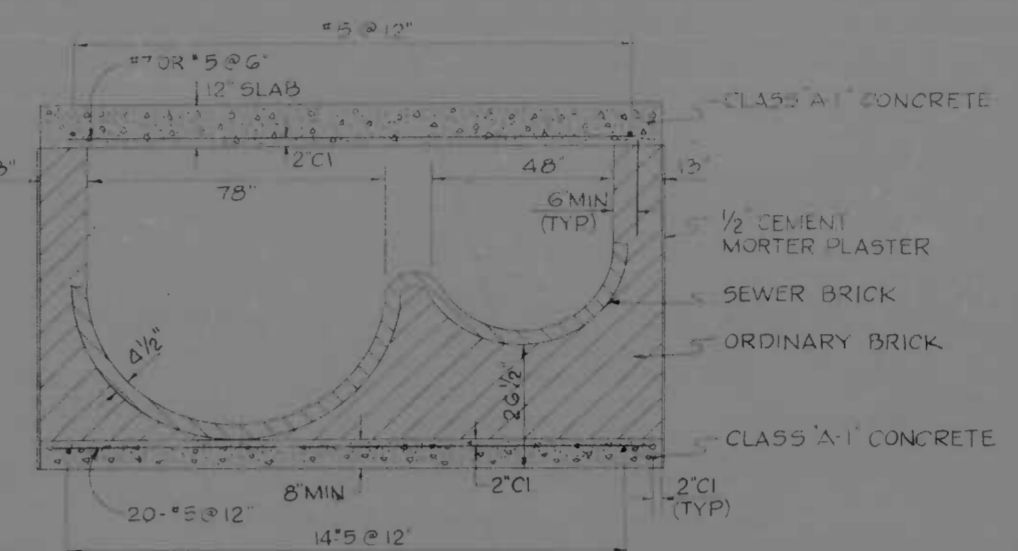


REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	PROBELL RENDON, STEVE & ASSOC. INC. AND WATZ, CHEUNG & ASSOC. INC. CONSULTING ENGINEERS 345 N. FAYWOOD STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY: D.M. TRACED BY: D.M. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-8/5 BALTIMORE, CITY NO. 1998
		SCALE: AS SHOWN	DATE: MAY 11, 1973
			DES. BY: A.L. CHK. BY: J.L.C. SHEET NO. (119) U-7 of U-9

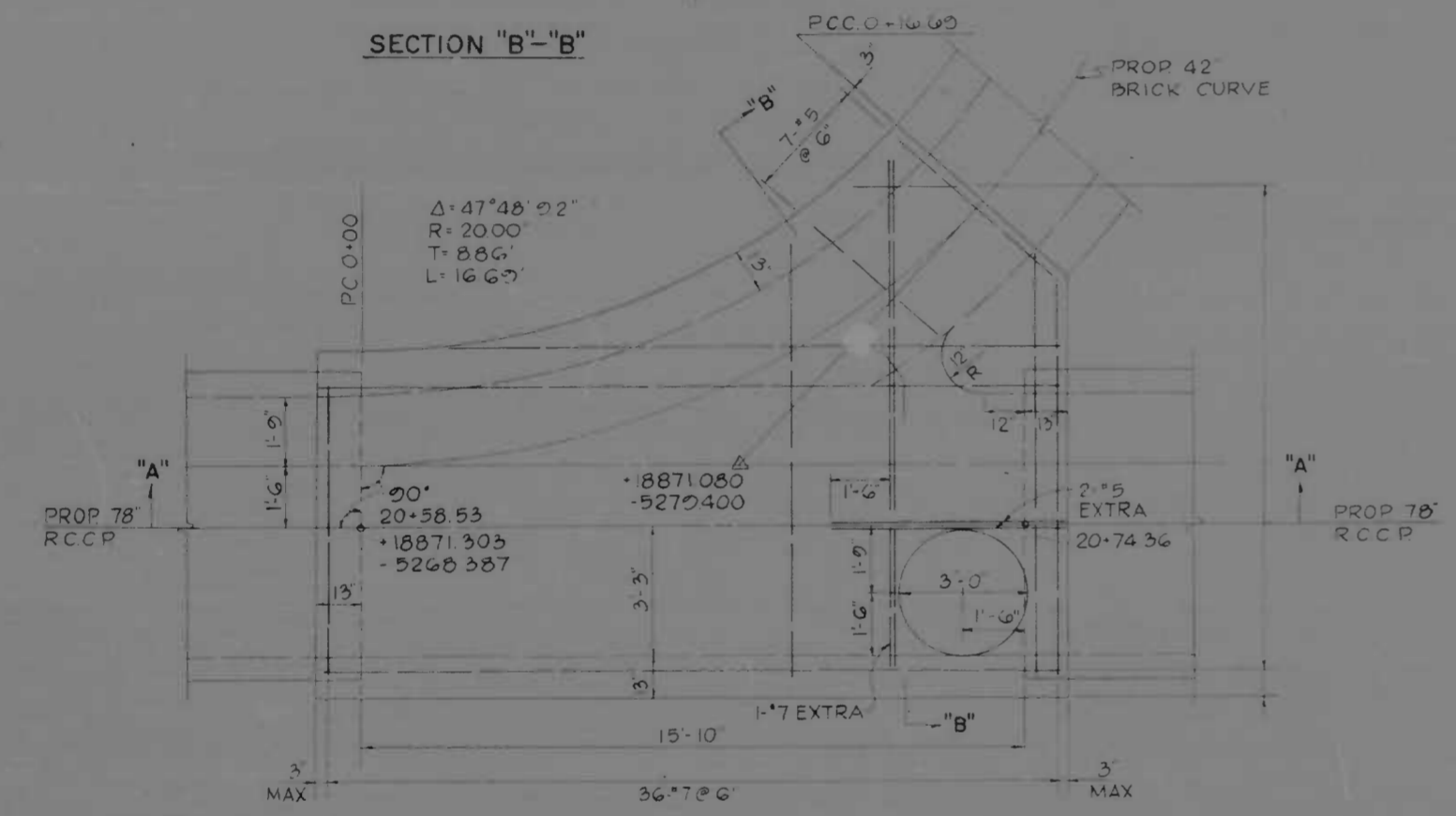
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MD	I-95-4(39)34	U-8	(119)



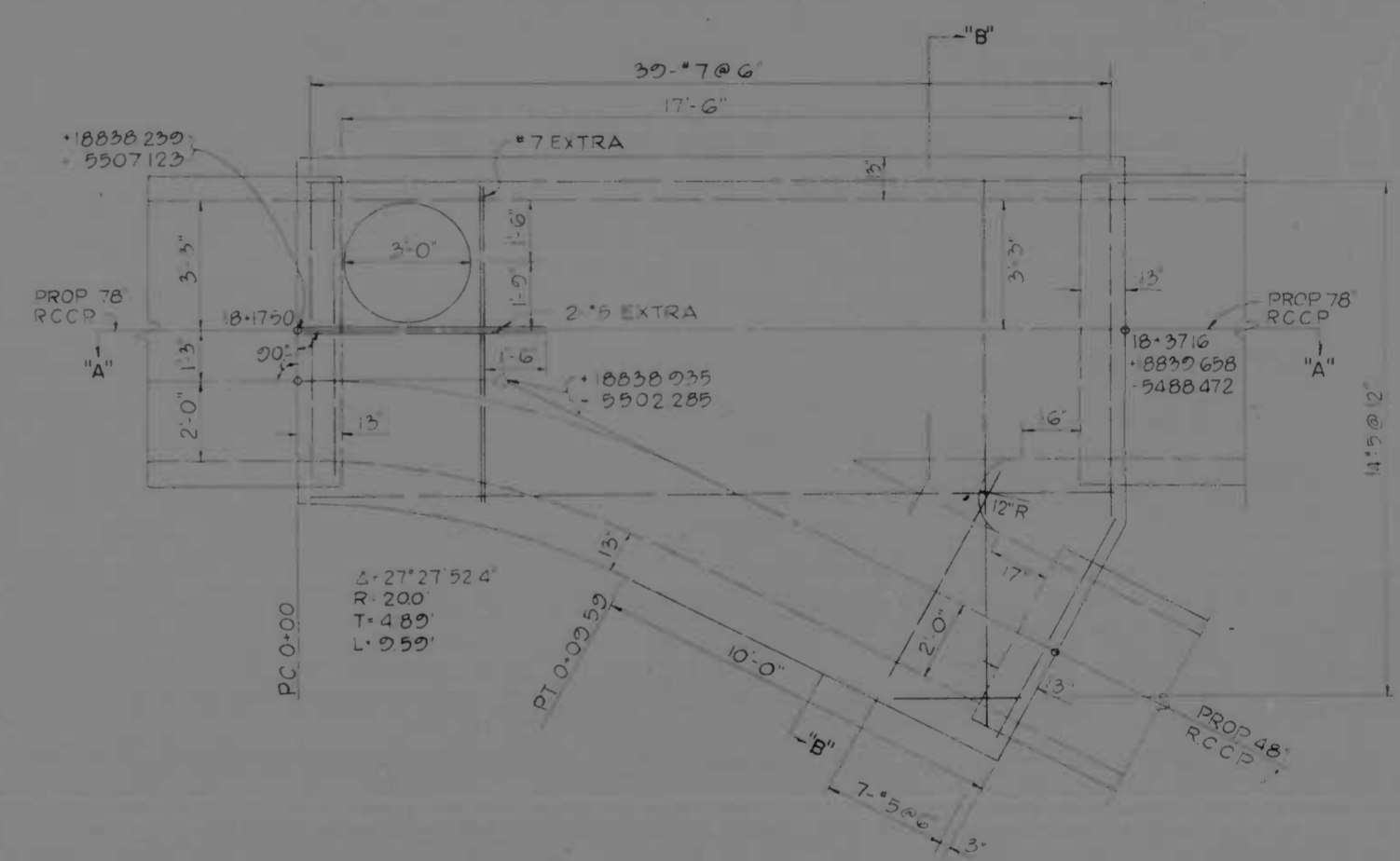
SECTION "B"- "B"



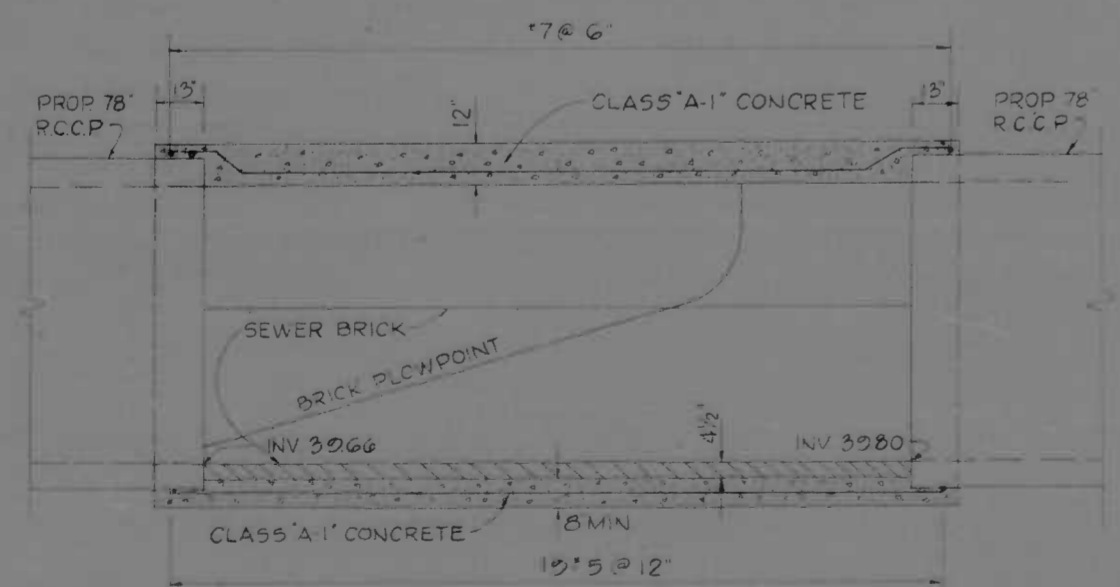
SECTION "B"- "B"



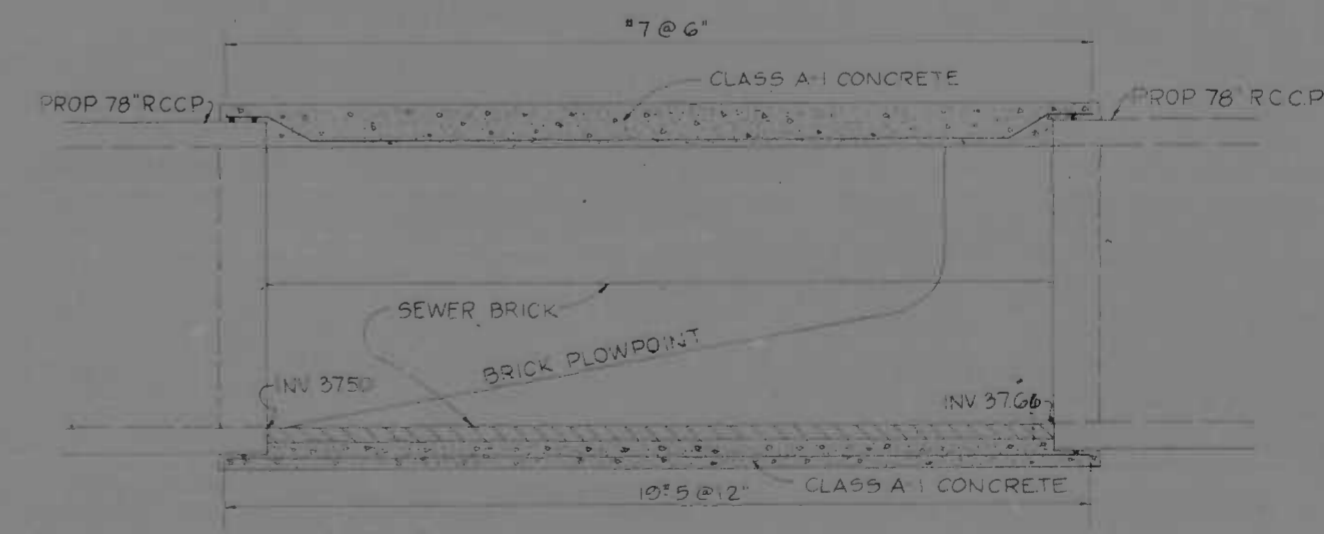
SPECIAL STRUCTURE - BELLMOUTH AT STA 20+58.53
 @ 78" DRAINAGE PIPE
 SCALE: 3/8" = 1'-0"



SPECIAL STRUCTURE - BELLMOUTH AT STA 18+17.50
 @ 78" DRAINAGE PIPE
 SCALE: 3/8" = 1'-0"

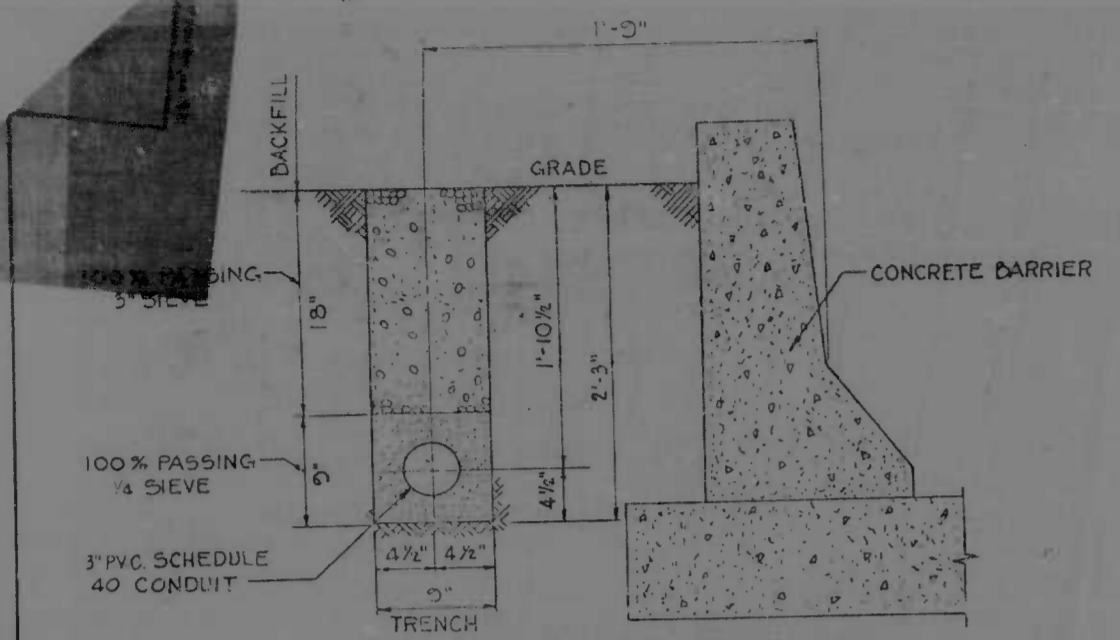


SECTION "A"- "A"



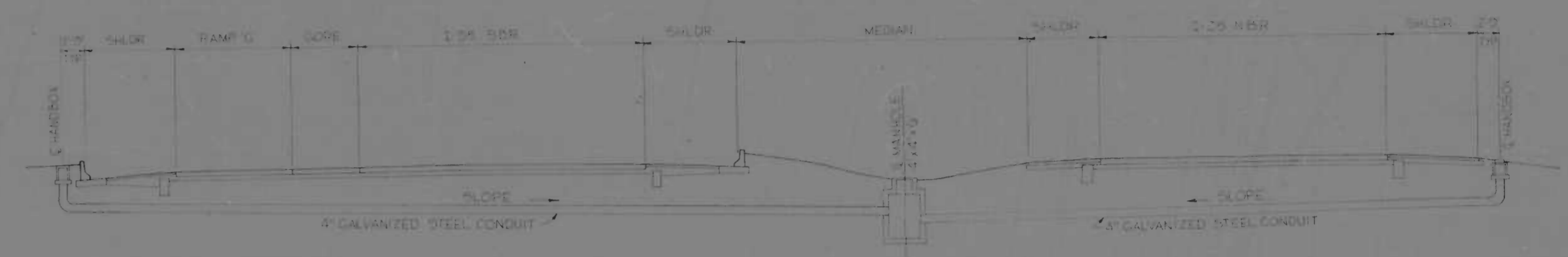
SECTION "A"- "A"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KIMBERL BENDER, OWNER KIMBERL BENDER & ASSOC., INC. CONSULTING ENGINEERS 342 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	DRAWN BY C.E.P. TRACED BY D.L.M. F.A.P. NO. I-95-4(39)34 S.R.C. NO. BC 246-36-B-8 BALTO. CITY NO. 1998
		SCALE: AS SHOWN	DES. BY C.E.P. CHK. BY J.L.C. DATE: MAY 11, 1973



NOTE: TRENCH SHALL BE BACKFILLED LOOSELY WITHOUT TAMPING TO AN ELEV 2" ABOVE GRADE TO ALLOW FOR SETTLEMENT.

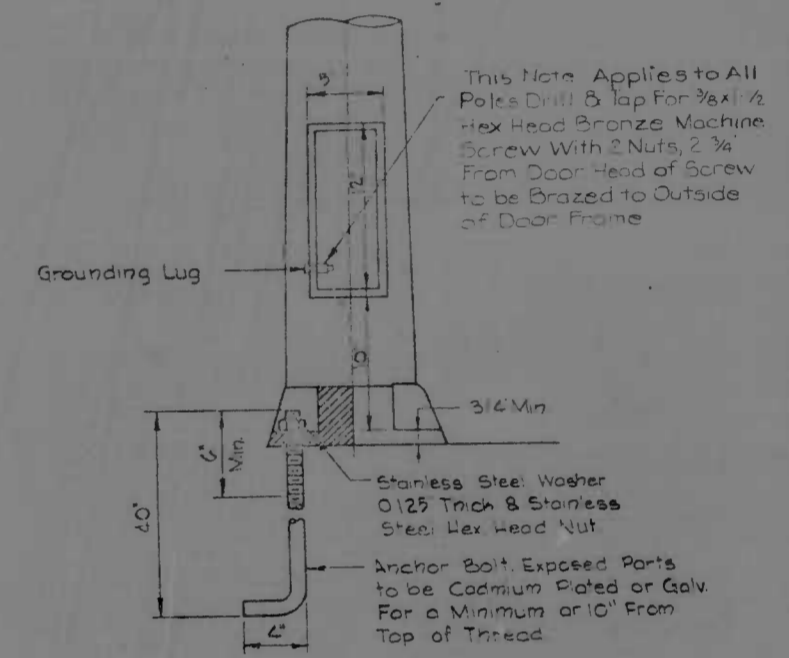
TRANSIT & TRAFFIC DUCT
NO SCALE



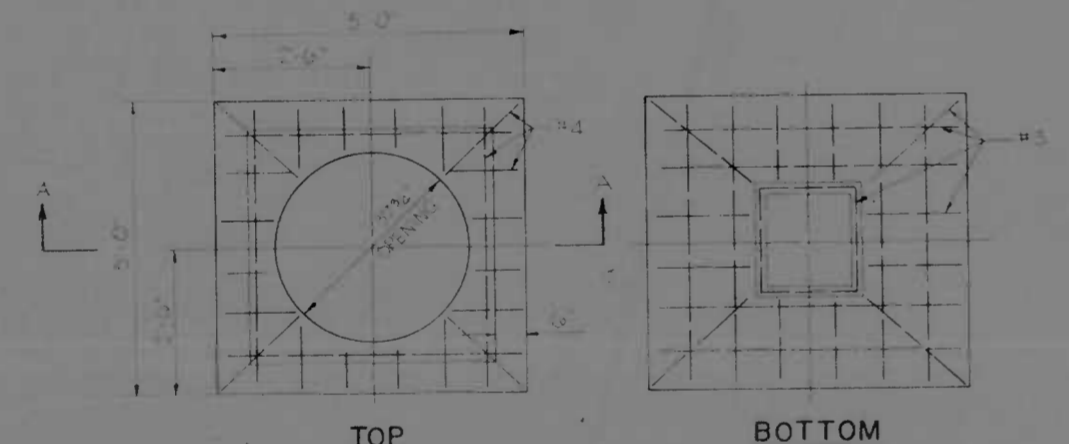
TRANSIT & TRAFFIC CROSSOVER FOR LOCATION SEE PLANS
NO SCALE



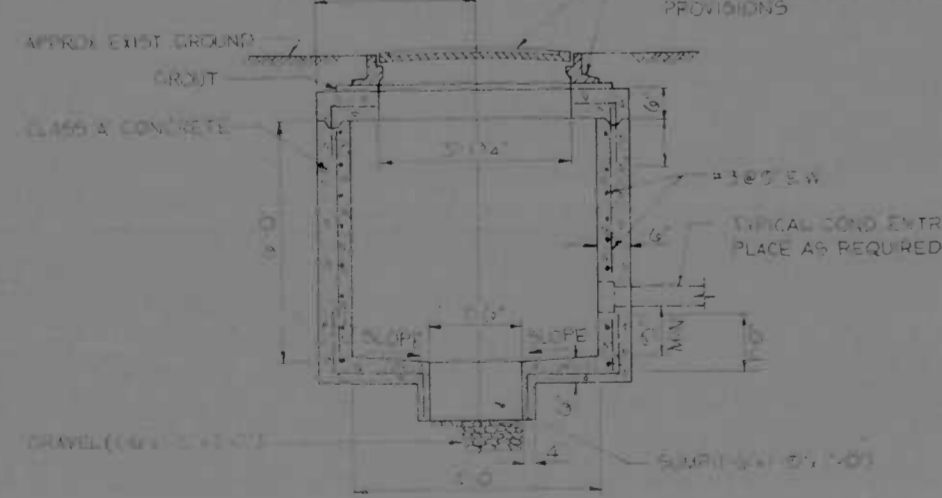
CONDUIT UNDER N.B.R. & S.B.R. FOR LOCATION SEE PLANS
NO SCALE



DETAIL OF ANCHOR BOLT
Scale 1/12"=1'-0"

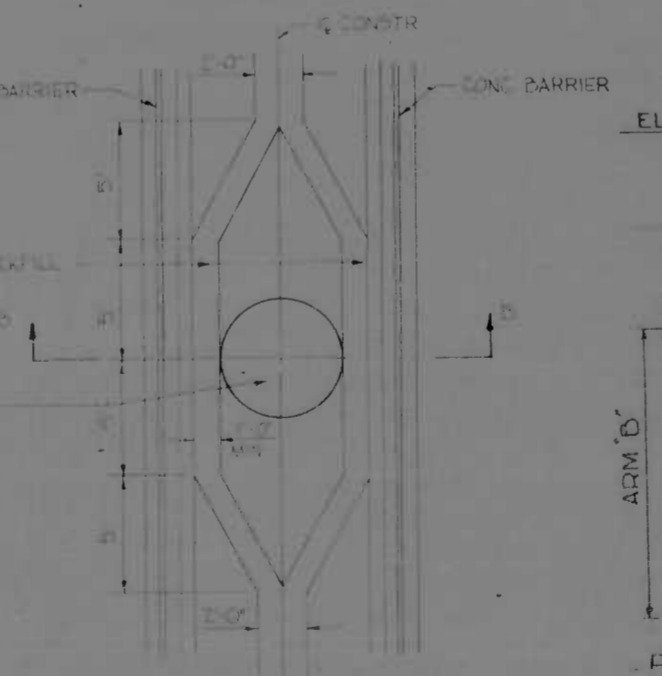
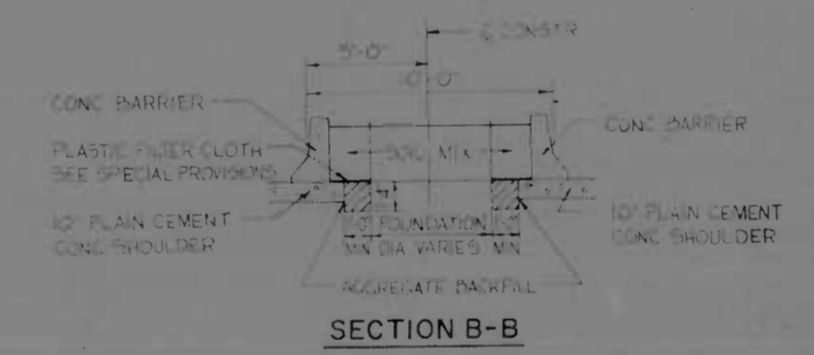


FOR D.I.T. CONDUIT MANHOLE FRAME AND COVER SEE STANDARD DETAILS ATTACHED TO SPECIAL PROVISIONS

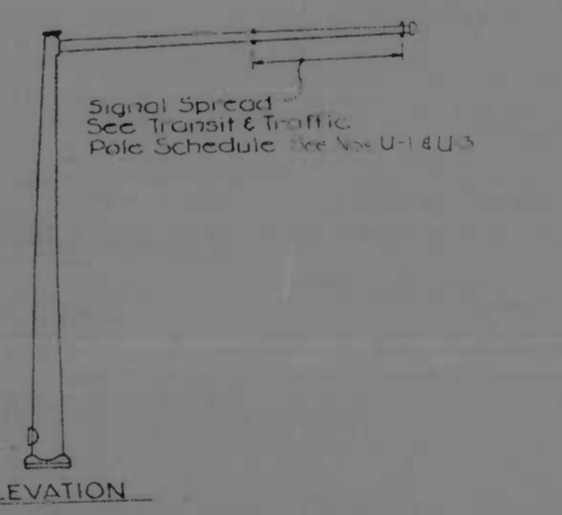


4' x 4' x 6' H.R. TRANSIT & TRAFFIC MANHOLE
NO SCALE

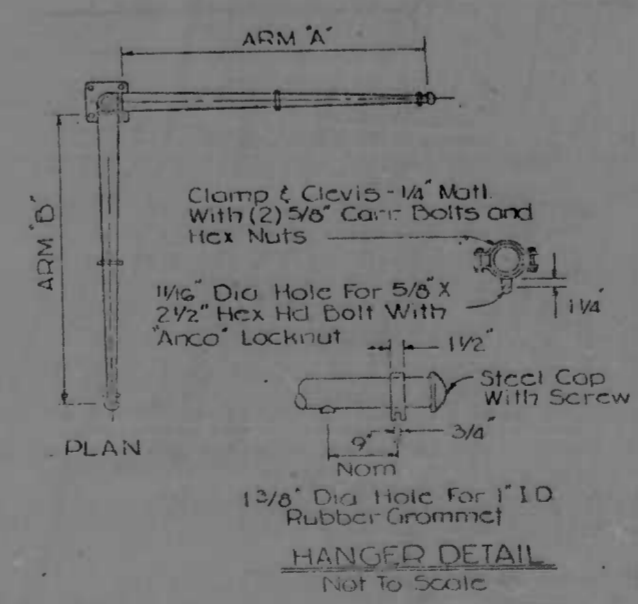
NOTE: THE CONTRACTOR HAS THE OPTION OF FURNISHING BUILT-IN-PLACE MANHOLE OR FURNISHING PREFABRICATED MANHOLES.



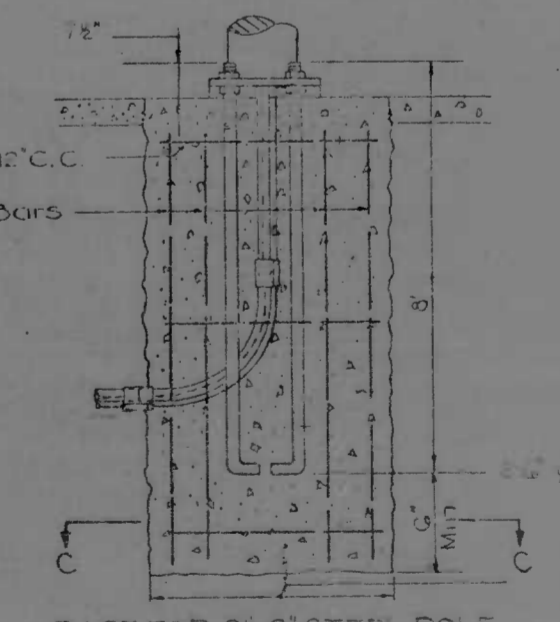
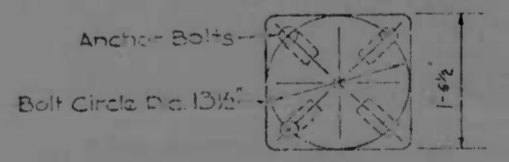
MEDIAN UNDERDRAIN TREATMENT FOR HIGH MAST LIGHTING & D.I.T. MANHOLES
NO SCALE



TRANSIT & TRAFFIC POLE
Not to Scale

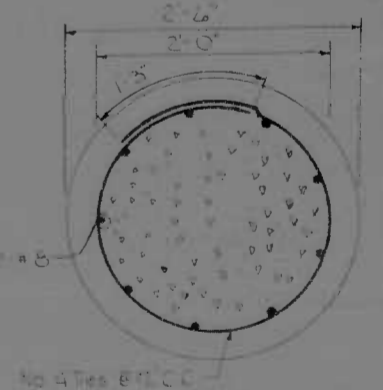


HANGED DETAIL
Not to Scale



BASE FOR 2 1/2" STEEL POLE

Note: Each Footing Shall Have Two 2" Conduit Installations. One Shall Extend into Handbox And The Other Shall be Plugged.



SECTION C-C
Scale 1/12"=1'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
	KHOPER, BENDER, STORM & ASSOC., INC. and MATZ, CHUBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM O'DONNELL STREET TO WEST OF GUSRYAN STREET	INTERSTATE DIVISION FOR BALTIMORE CITY
		SCALE: AS SHOWN	DATE: MAY 11, 1973
			DRAWN BY: J.W.S. TRACED BY: J.W.S. F.P. NO. I-95-4(39)34 S.R.C. NO. B-246-36-B15 BALTO. CITY NO. 1998
			DES. BY: A.L. & D.G.M. CHK. BY: J.L.C.
			SHEET NO. (119) U-9 of U-9

INDEX OF SHEETS

P-1	FIELD SHEET
P-2	GENERAL NOTES
P-3	CONCRETE
P-4	LYNE REFERENCES
P-5	MOCKUP TYPICAL SECTIONS AND DETAILS
P-6	SUPERELEVATION TABLES
P-7, 8, 9, 10	PLAN SHEET O'DONNELL ST BRIDGE BOSTON ST O'DONNELL ST BOSTON ST RAMP "A"
P-11	PLAN SHEET 1-95 STA 282+00 TO STA 288+00 RAMP "C"
P-12	CANTON RAIL ROAD PLAN SHEET 1-95 STA 298+00 TO STA 303+00
P-13	CANTON RAIL ROAD PLAN SHEET 1-95 STA 303+00 TO STA 318+00 RAMP "A"
P-14	PROFILE 1-95 STA 282+00 TO 287+00 PROFILE 1-95 STA 287+00 TO 317+00 RAMP "C"
P-15	PROFILE 1-95 WORTH PROFILE RAMP "A" FREE RIGHT TURN PROFILE RAMP "A" FREE RIGHT TURN PROFILE TEMPORARY CONNECTION PROFILE BOSTON STREET PROFILE O'DONNELL STREET
P-16	PROFILE CANTON RAILROAD PROFILE CHANNEL COLLECTION STORM DRAINAGE PROFILES STORM DRAINAGE SCHEDULES GRADING PLANS UTILITY PLAN O'DONNELL ST BOSTON ST O'DONNELL ST CUT OFF UTILITY PLAN 1-95
P-17	CANTON RR UTILITY PLAN (20' SCALE) O'DONNELL ST
P-18	UTILITY PROFILES UTILITY DETAILS GENERAL NOTES INDEX & SUMMARY 1/4" SCALE PLANS GUIDE SIGN MESSAGES DETAILS AND DIMENSIONS STANDARD SIGN DETAILS GUIDE SIGN SHIELDS & ARROW DETAILS SIGN PANEL MOUNTING DETAILS ROADS OF SIGN SUPPORT DETAILS DEFLECTOR DETAILS ENERGY ABSORBING DEVICES TOD SCALE PLANS LIGHT STANDARD DETAILS MFC DETAILS SIGN ILLUMINATION RETAINING WALL "A" RETAINING WALL "B" RETAINING WALL "C" RETAINING WALL SECTION BOX CULVERT EXTENSION AT O'DONNELL ST, CUT OFF BOX CULVERT AT O'DONNELL AND BOSTON STS BORING DATA CONCRETE CAST WALLS "D" AND "E" 1-95 AND RAMP "A" OVER GUSRYAN ST ABUTMENTS AND APPROACH SPANS SLOUVER PILE, TIMBER LAGGING WALL STEINING FOUNDATION DETAILS LIGHTING FOUNDATION DETAILS OVERHEAD SIGN STRUCTURES MISC SIGN STRUCTURE DETAILS SUPPORTS FOR TRUCK SIGN QUANTITIES & ESTIMATES

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
AND
STATE ROADS COMMISSION OF MARYLAND
INTERSTATE DIVISION FOR BALTIMORE CITY
FEDERAL AID PROJECT NO. I-95-4(39)34
STATE ROADS COMMISSION PROJECT NO. BC 246-36-815
CITY OF BALTIMORE BUREAU OF ENGINEERING,
HIGHWAY ENGINEERING DIVISION CONTRACT NO. 1998

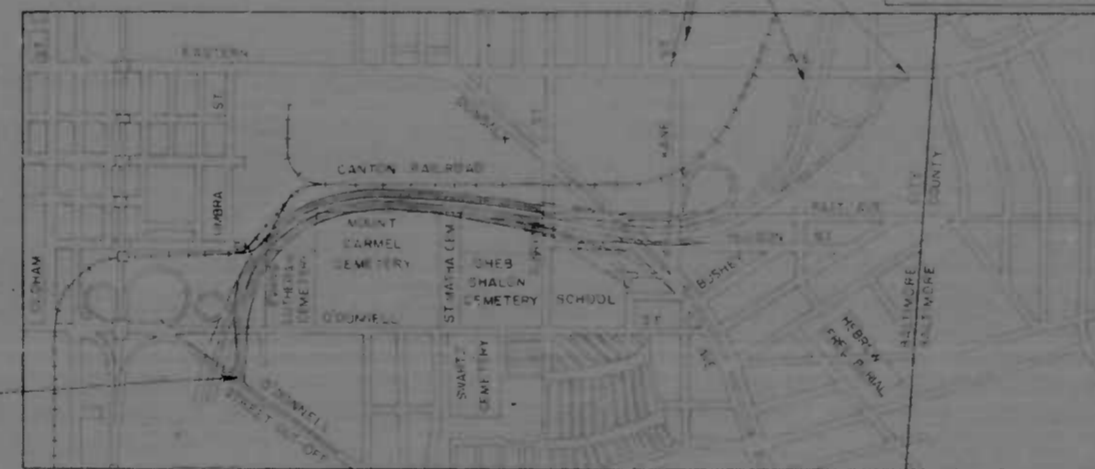
INTERSTATE ROUTE 95
FROM O'DONNELL STREET
TO WEST OF GUSRYAN STREET

NOTE
EFFECTIVE JULY 1, 1971, IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 526 OF ACTS OF THE 1970 GENERAL ASSEMBLY, WHEREVER THE TITLE "STATE ROADS COMMISSION" AND/OR TERM COMMISSION IS USED, IT SHALL BE CONSTRUED TO BE "THE STATE HIGHWAY ADMINISTRATION"

FIELD BOOKS	
BOOK NO.	DESCRIPTION
I-95-001	ALIGNMENT
I-95-002	
I-95-005	
I-95-015	
I-95-022	
I-95-026	TOPOGRAPHY
I-95-006	
I-95-007	
I-95-008	
I-95-026	
I-95-003	CROSS-SECTIONS
I-95-008	
I-95-015	

LIMIT OF WORK
STA 343+00 I-95
STA 282+36 STA 20+36
EASTERN AVE
STA 18+40 KANE ST
FAP NO. I-95-4(39)34
SRC NO. BC 246-36-815
BALTO CITY NO 1998

LIMIT OF WORK
STA 282+36 BOSTON STREET
FAP NO. I-95-4(39)34
SRC NO. BC 246-36-815
BALTO CITY NO 1998



TRAFFIC DATA		
INTERSTATE 95 FROM O'DONNELL ST TO GUSRYAN ST		
1987 ADT	75,200	
1990 ADT	180,600	
1990 DHV	14,440	
TRUCK DHV	10%	
RAMP "K"		
1990 DHV	530	
RAMP "J"		
1990 DHV	520	
MAINLINE	MAX CURVATURE Dc=137'45" 00"	MAX GRADE -3.00%
RAMPS	Dc=227'30" 00"	-7.00%

RIGHT OF WAY LINES SHOWN ON THESE PLANS DO NOT INCLUDE EASEMENTS. THEY ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THESE LINES DO NOT REPRESENT THE OFFICIAL PROPERTY ACQUISITION LINES. FOR OFFICIAL FEE RIGHT OF WAY AND EASEMENT INFORMATION, SEE THE APPROPRIATE RIGHT OF WAY PLAT OR PLATS.

CITY OF BALTIMORE
APPROVED
[Signature]
DIVISION CHIEF
DOCUMENTATION & POSITION CONTROL
REPRESENTATIVE

CHECKED BY	INITIALS	DATE
BUREAU OF ENGINEERING		
WATER DIVISION	<i>[Signature]</i>	7-30-73
WASTE WATER DIVISION	<i>[Signature]</i>	7-30-73
HIGHWAY ENGINEERING DIVISION	<i>[Signature]</i>	7-30-73
SURVEY AND RECORDS DIVISION	<i>[Signature]</i>	7-30-73
BUREAU OF UTILITY OPERATIONS		
LIGHTING SECTION	<i>[Signature]</i>	7-30-73
HIGHWAY MAINTENANCE DIV.	<i>[Signature]</i>	7-30-73
CONDUIT SECTION	<i>[Signature]</i>	7-30-73
DEPARTMENT OF TRANSIT AND TRAFFIC	<i>[Signature]</i>	7/30/73

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
APPROVAL RECOMMENDED
[Signature]
HEAD BUREAU OF ENGINEERING
APPROVED
[Signature]
DIRECTOR OF PUBLIC WORKS

PREPARED BY
KNOEPLE, BENDER, STONE & ASSOCIATES, INC.
AND
MATZ CHILDS & ASSOCIATES, INC.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND
APPROVED
[Signature]
JOHN L. GARDNER
DATE
7/30/73

APPENDUM NO. 5 SEPT 13, 1973
DESIGN SPEED=60 MPH
LENGTH OF PROJECT=0.464 MILE

STATE ROADS COMMISSION OF MARYLAND
REVIEWED AND APPROVAL RECOMMENDED
[Signature]
CHIEF BUREAU OF ENGINEERING
APPROVAL RECOMMENDED
[Signature]
DEPUTY CHIEF ENGINEER - DEVELOPMENT
APPROVED
[Signature]
CHIEF ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ENGINEER
DATE