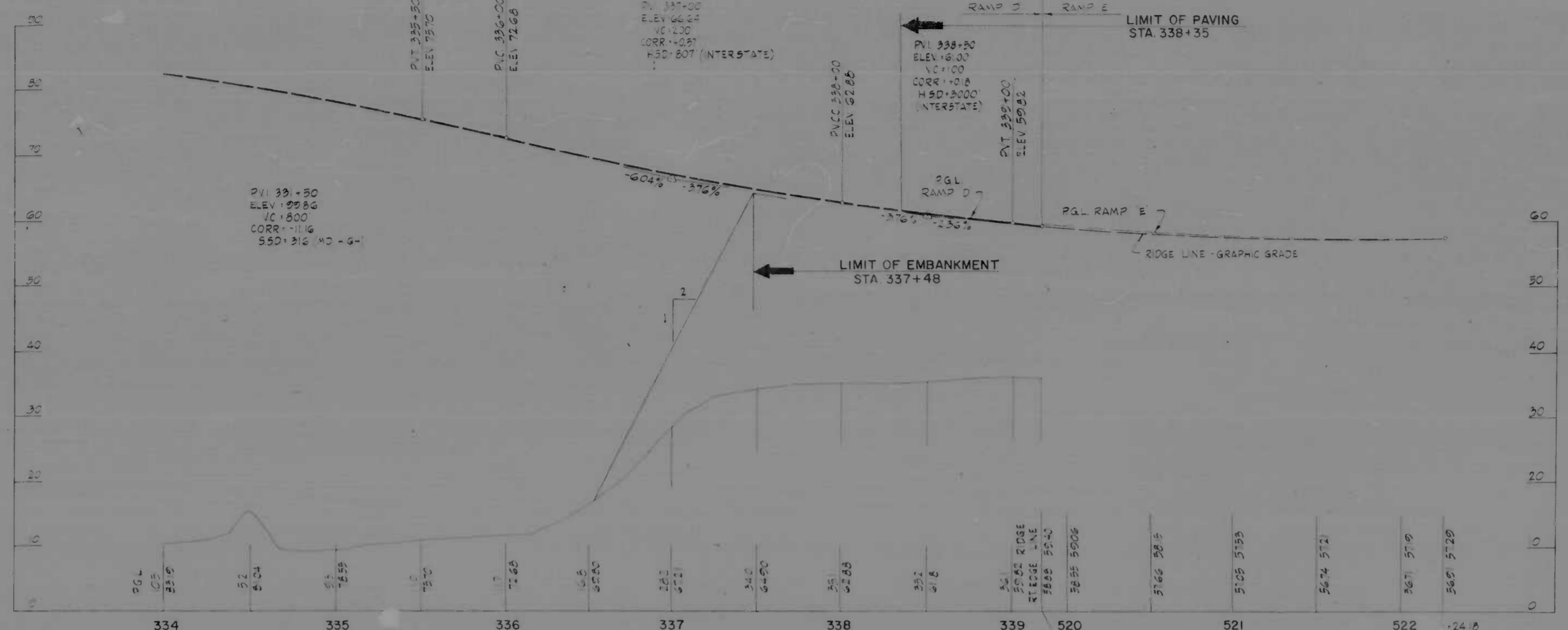


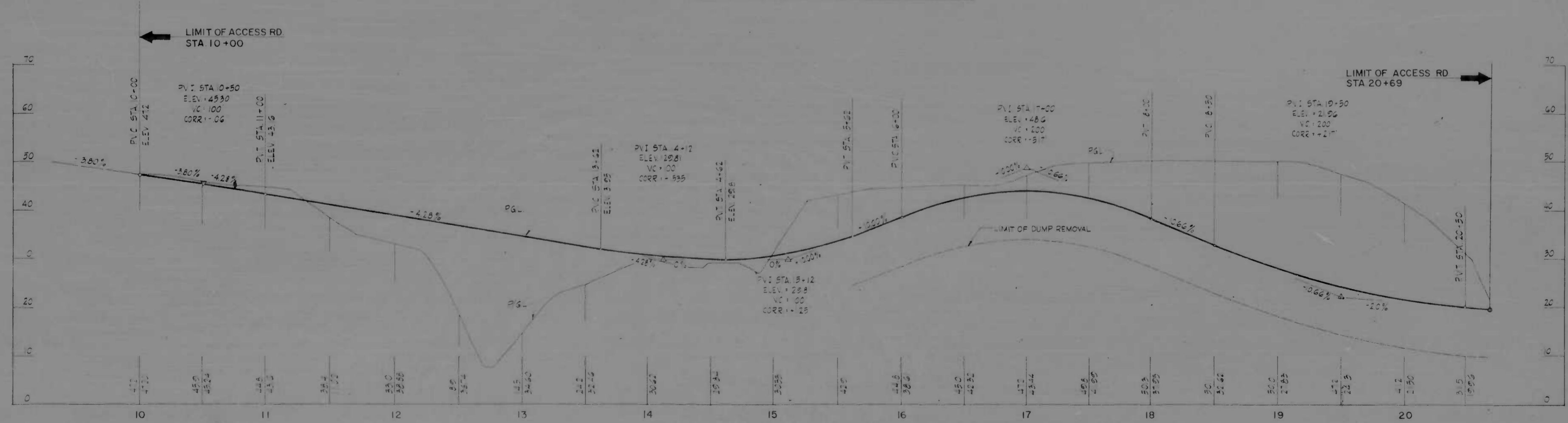
Missing
T-15

SP22

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	P-11	(92) P-15



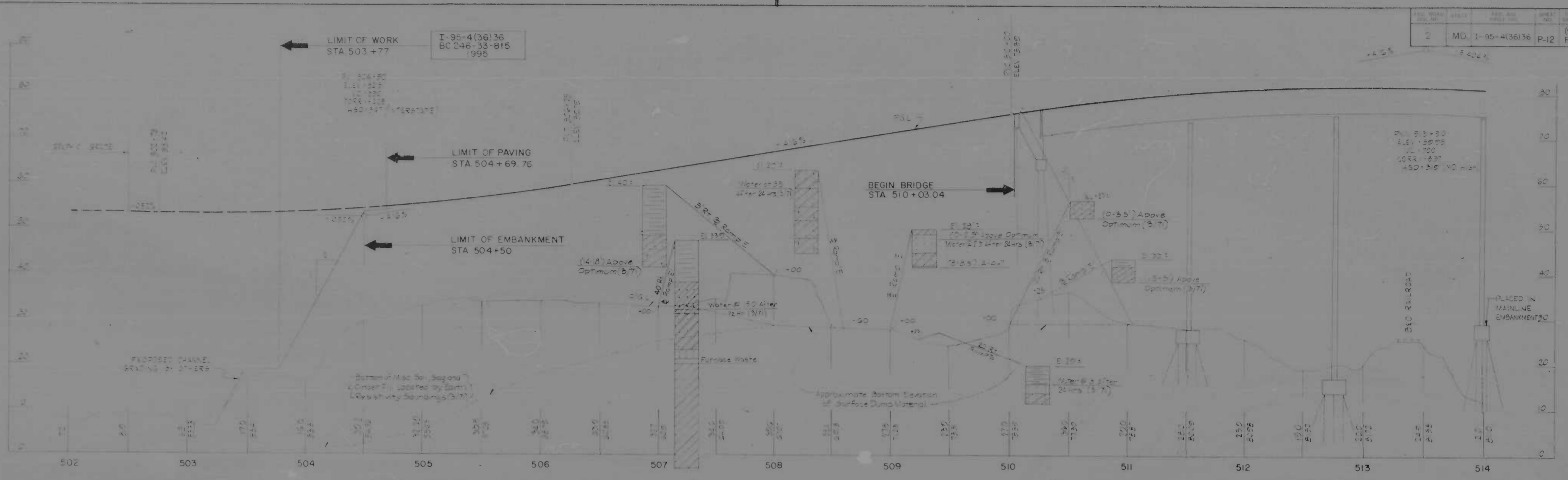
RAMP 'D' STA. 334+00 TO STA 339+17.56
PT 339+17.56 = 15' RT
POT 519+84.87 RAMP 'E'



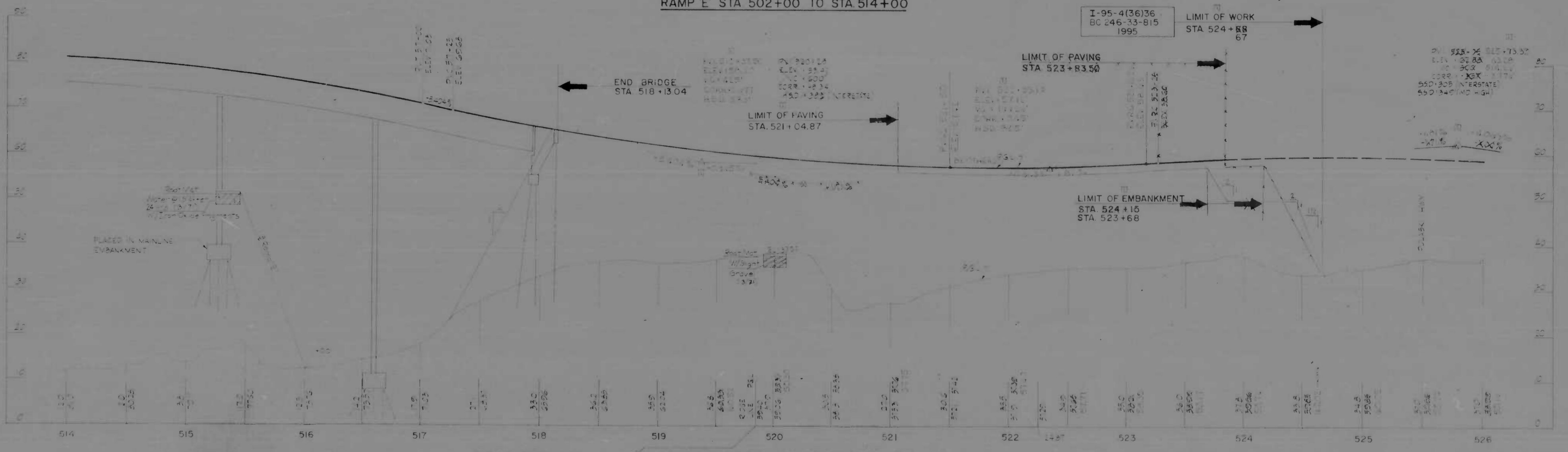
ACCESS ROAD RELOCATED STA. 10+00 TO STA. 20+69

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KEMPERLE, HEMMEL, STONE & ASSOC., INC. AND MATZ, RIMLOS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND, 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	
	SCALE: Horiz. 1" = 40' Vert. 1" = 10'	DATE	DRAWN BY: F.W. TRACED BY: F.W. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-515 BALTO. CITY NO. 1995

NO.	DATE	BY	REVISION
2	MU	I-95-4(36)36	P-12
			(92) P-15

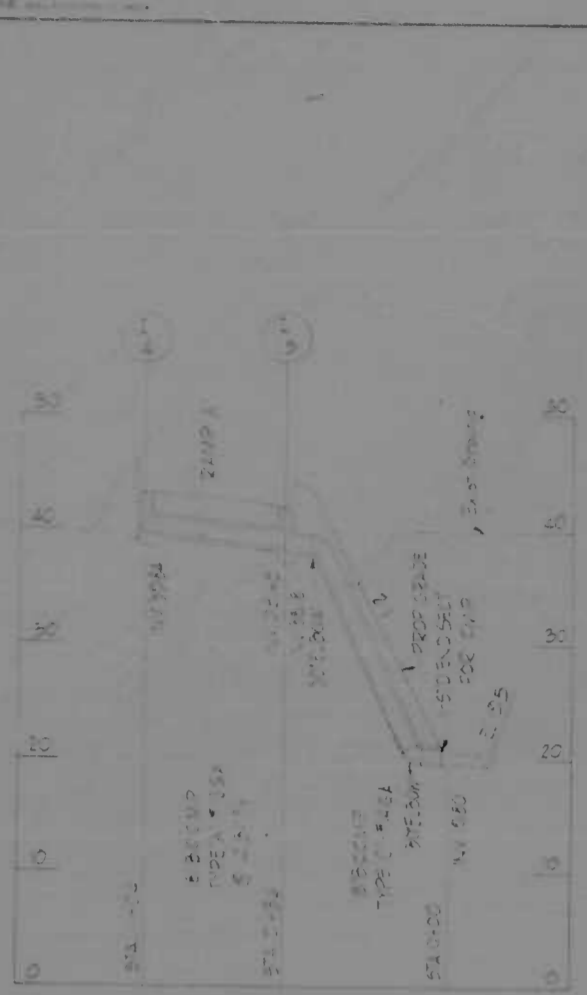


RAMP 'E' STA 502+00 TO STA 514+00

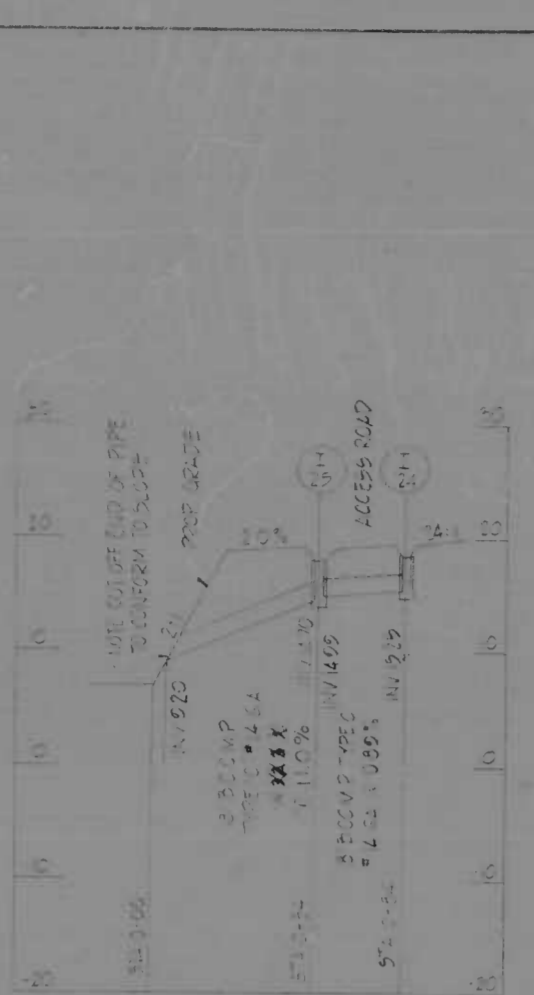


RAMP 'E' STA 514+00 TO STA 526+00

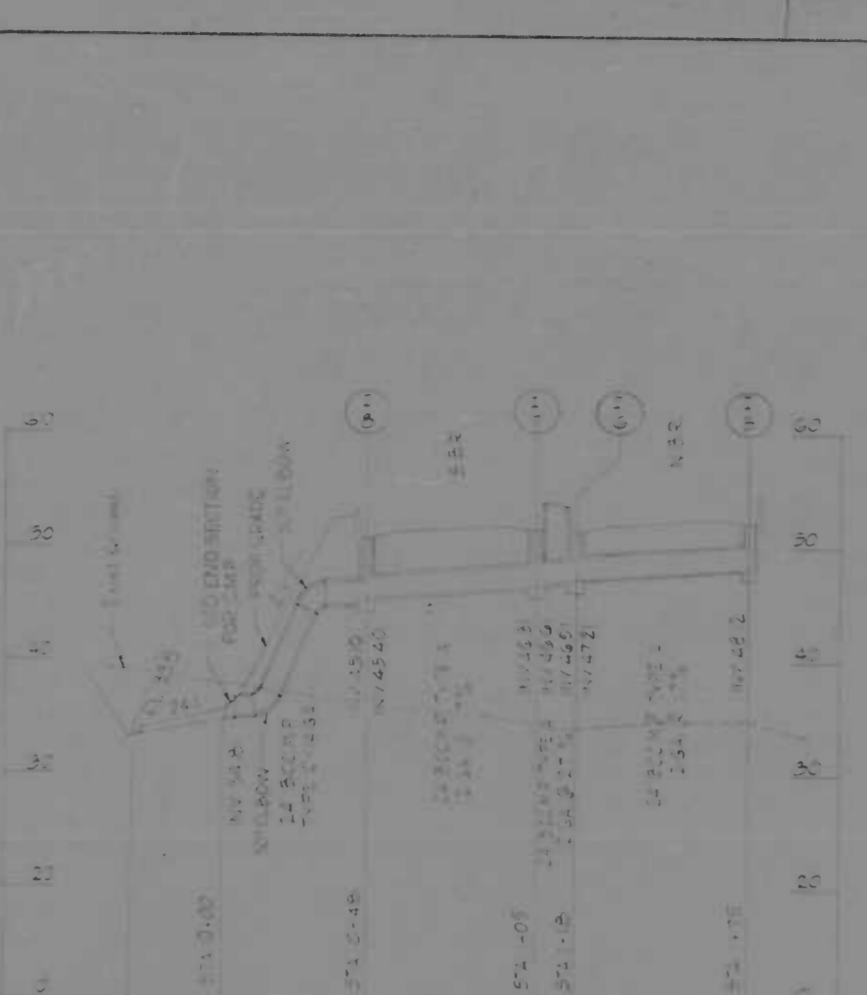
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	ANDERLL WENDER STONE & ASSOC. INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD		DRAWN BY: FW CHECKED BY: FW	DESIGNED BY: TEL CHECKED BY: JLC
SCALE: HORIZ. 1" = 40' VERT. 1" = 10'		DATE:		SHEET NO. (92) P-12 OF P-15	



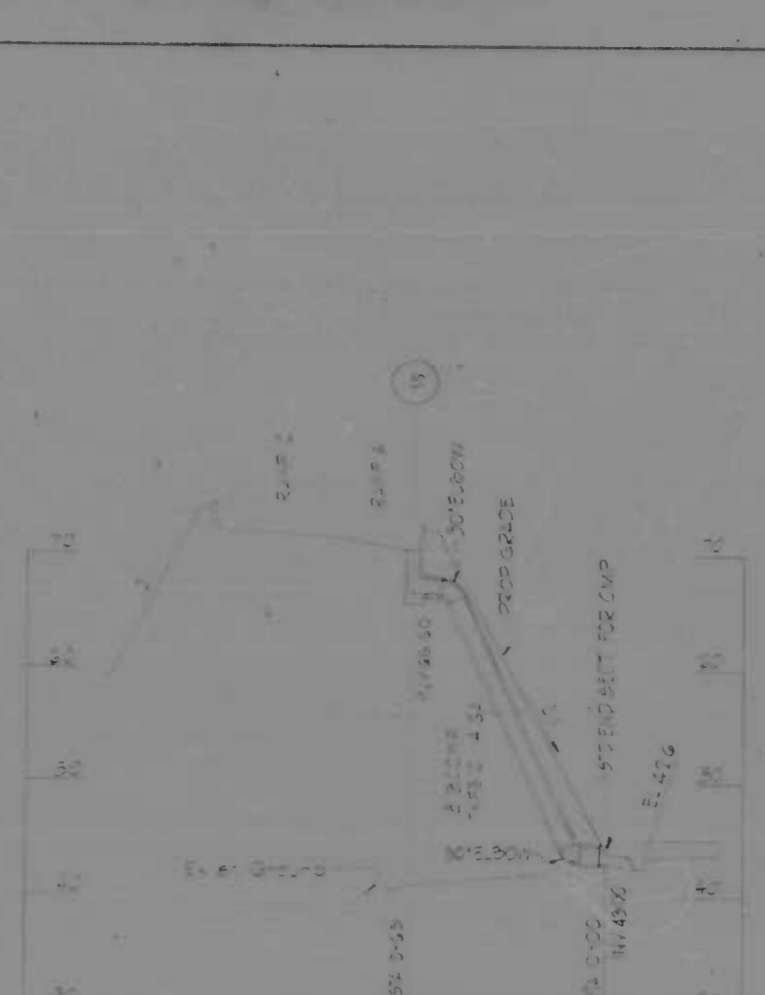
I-14 TO I-15



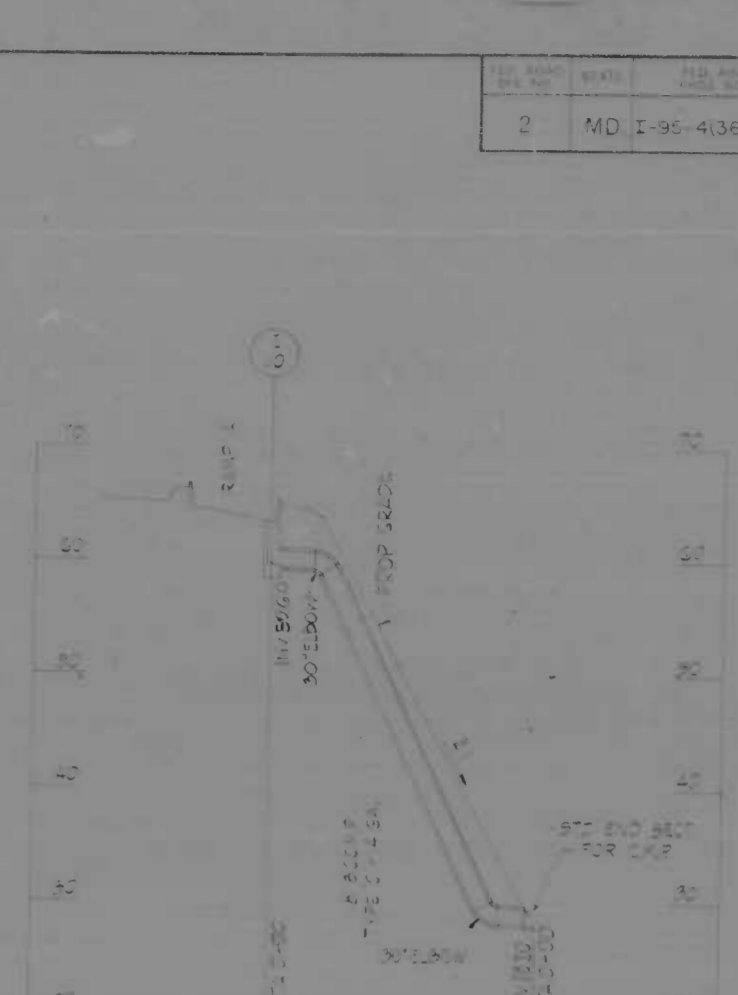
I-24 TO I-25



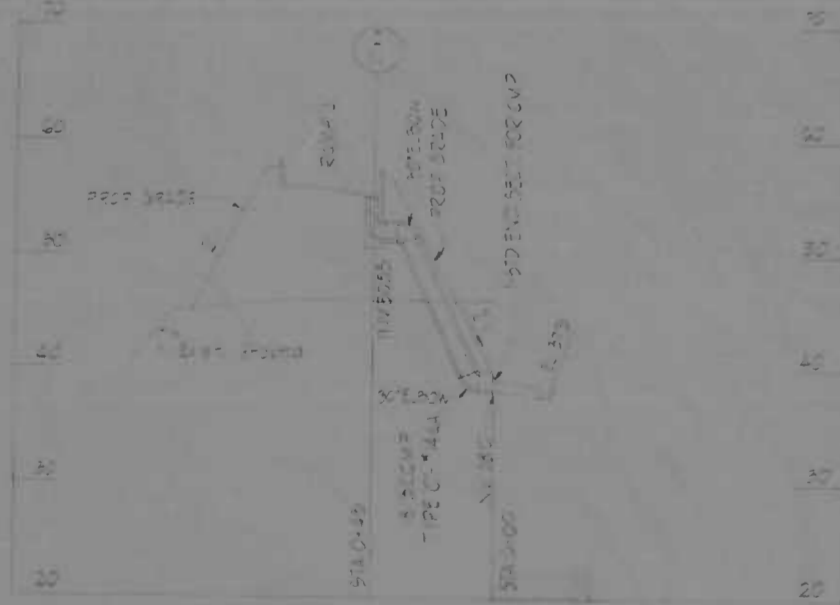
I-5 TO I-8



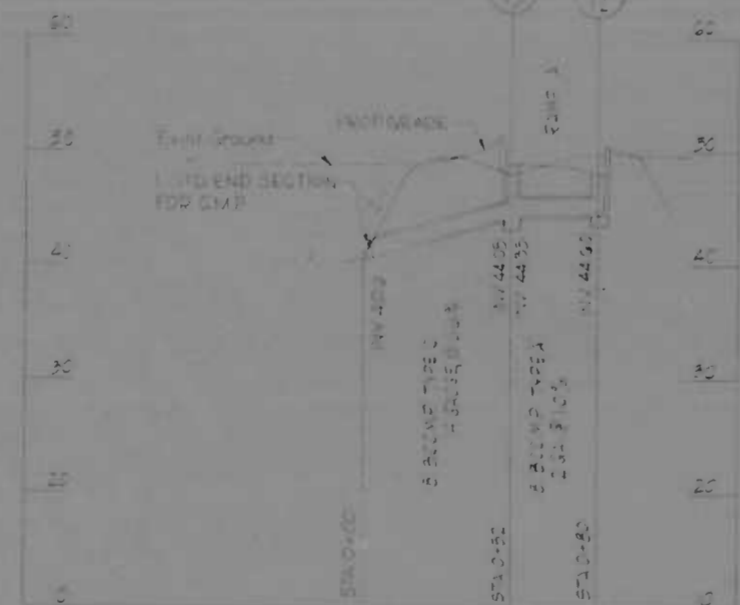
I-9



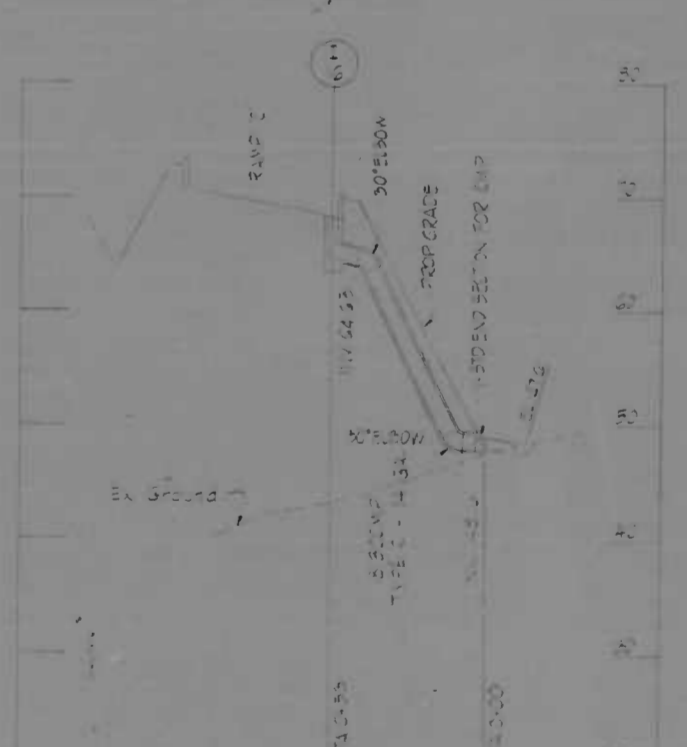
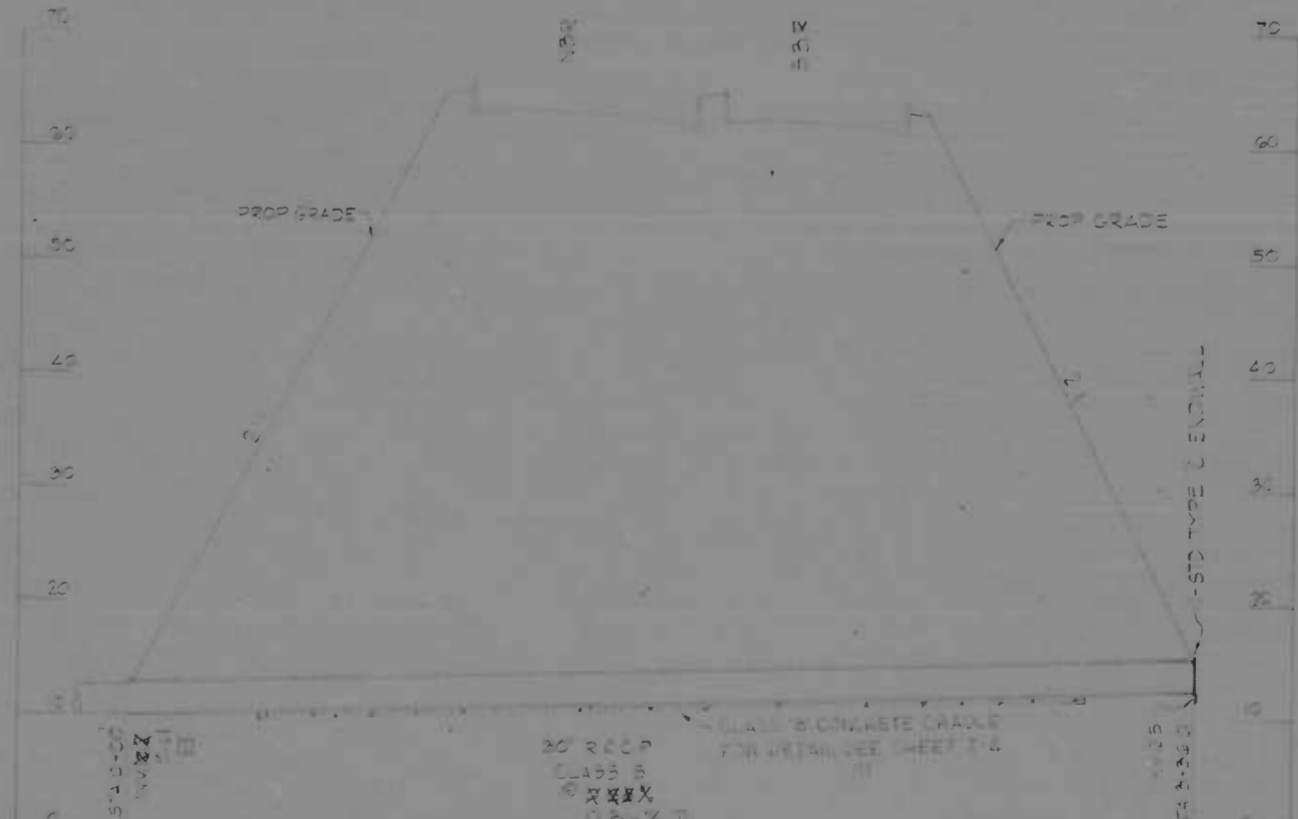
I-10



I-11



I-12 TO I-13

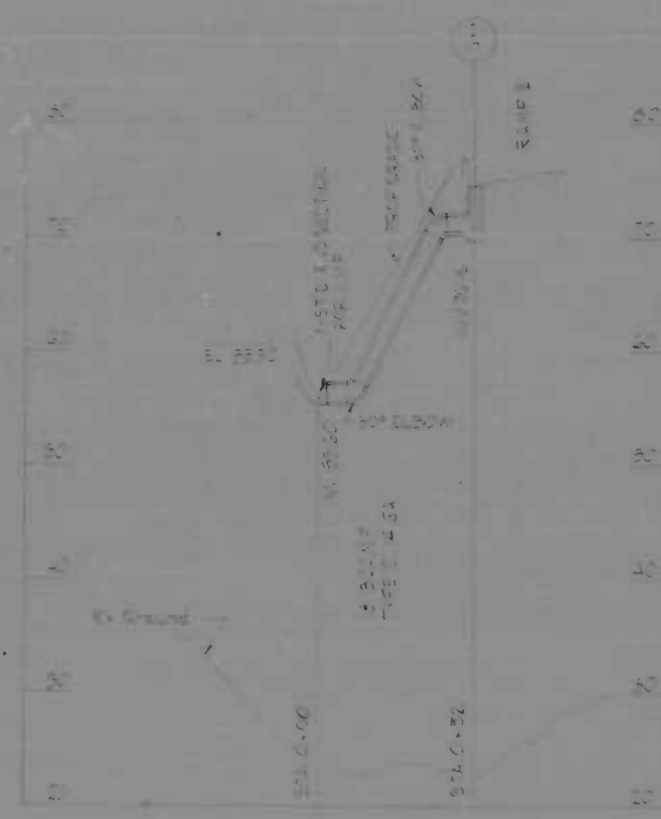


I-16

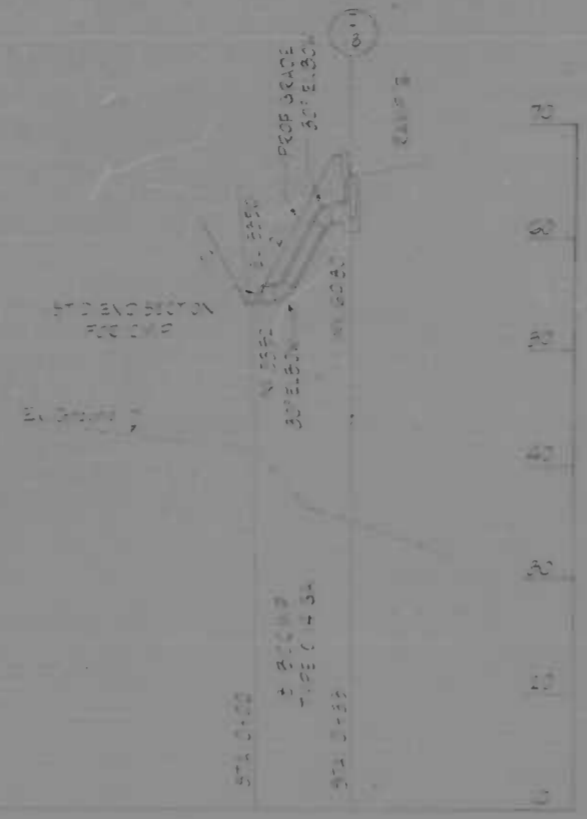
REVISIONS <input type="checkbox"/> 1. CONGRADLE 2. 11.1.95	CONSULTANT ENDRELL BENDER STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD			
SCALE: HORIZ 1"=40' VERT 1"=10' DATE:					

SP2

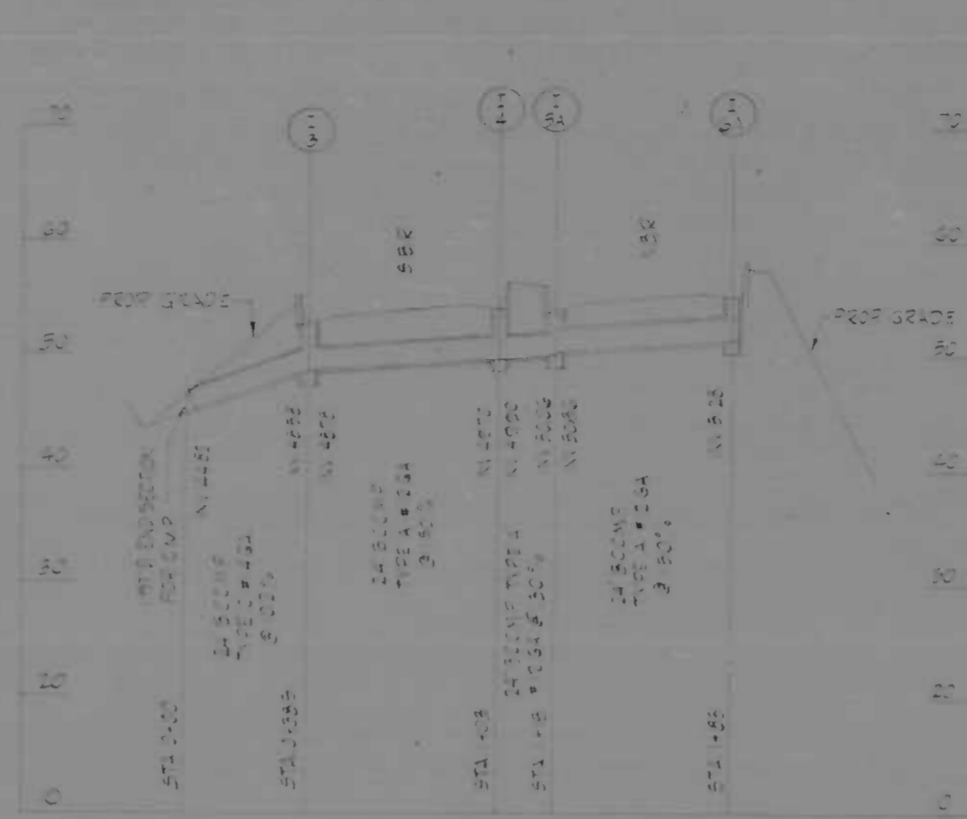
2	MD	95-4/36/36	P-15	(92)
				P-15



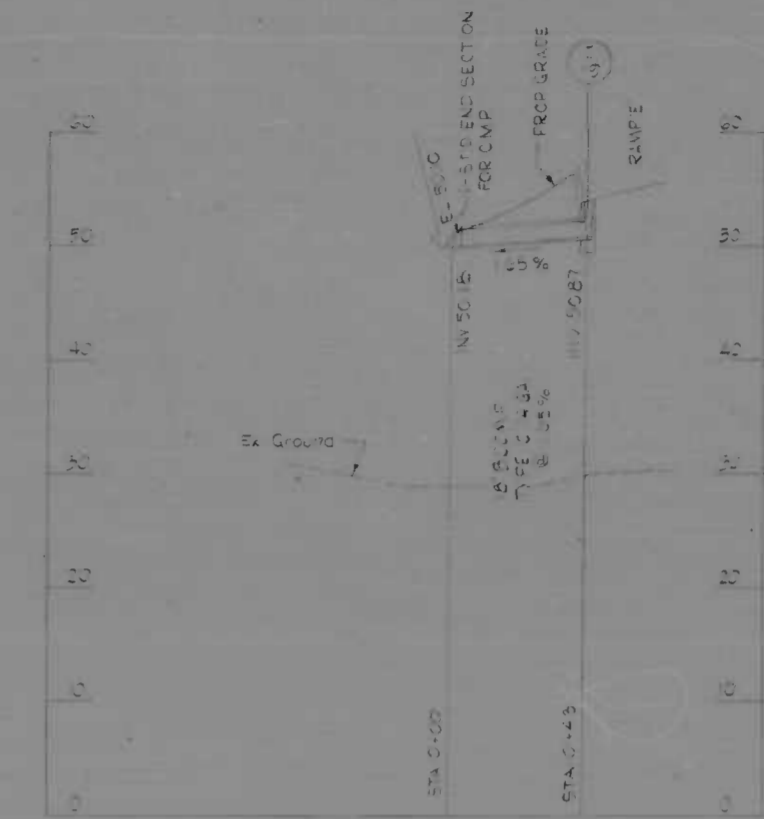
I-17



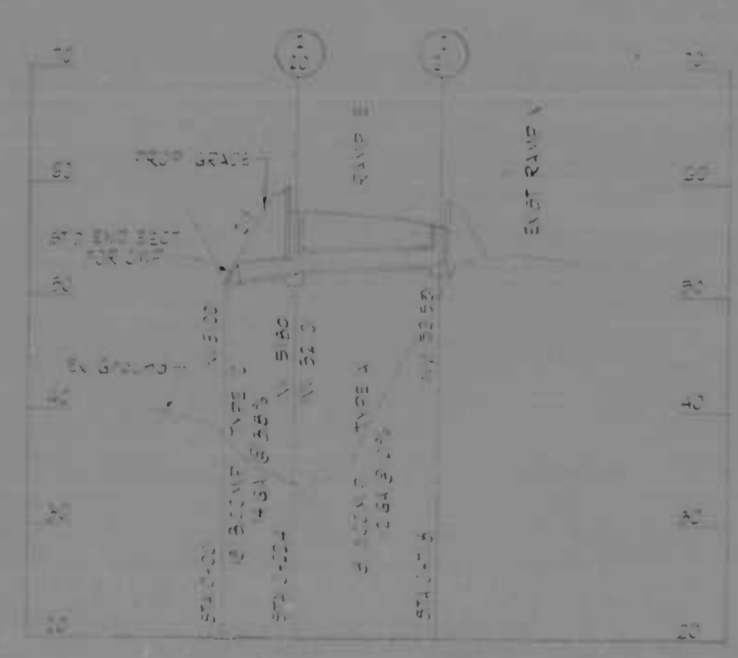
I-18



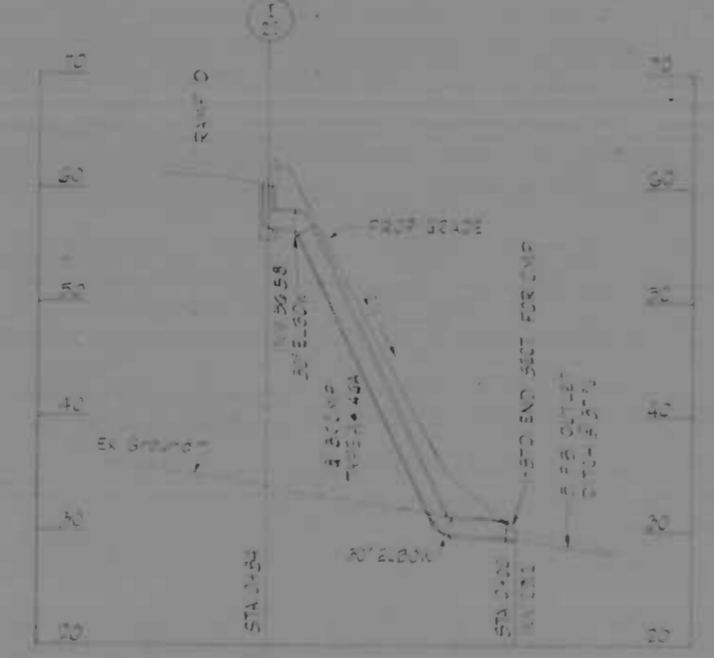
I-3, I-4, I-5A, I-6A



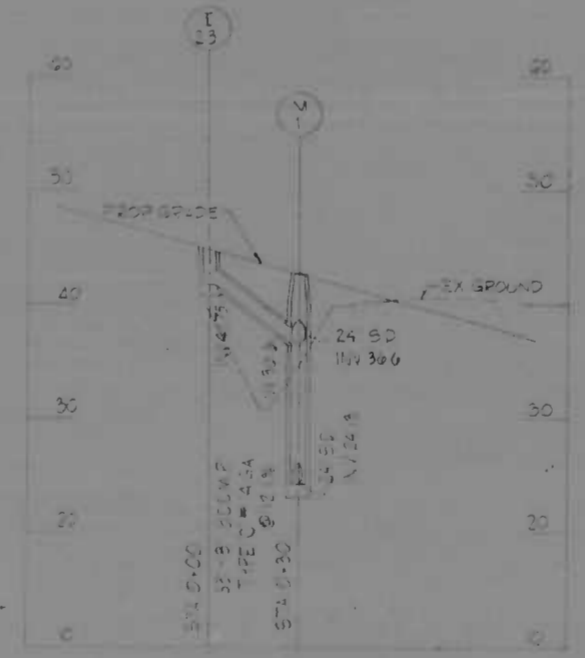
I-19



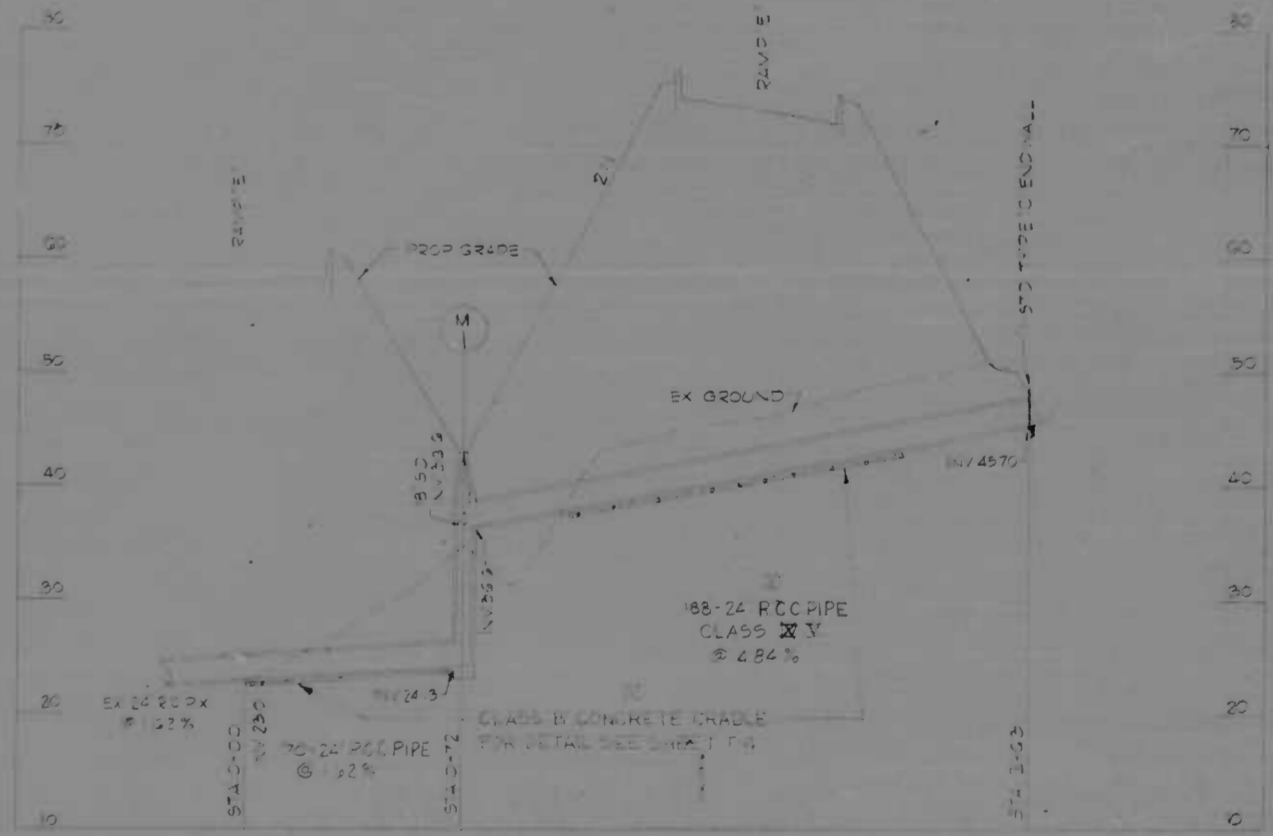
I-20 TO I-21



I-22



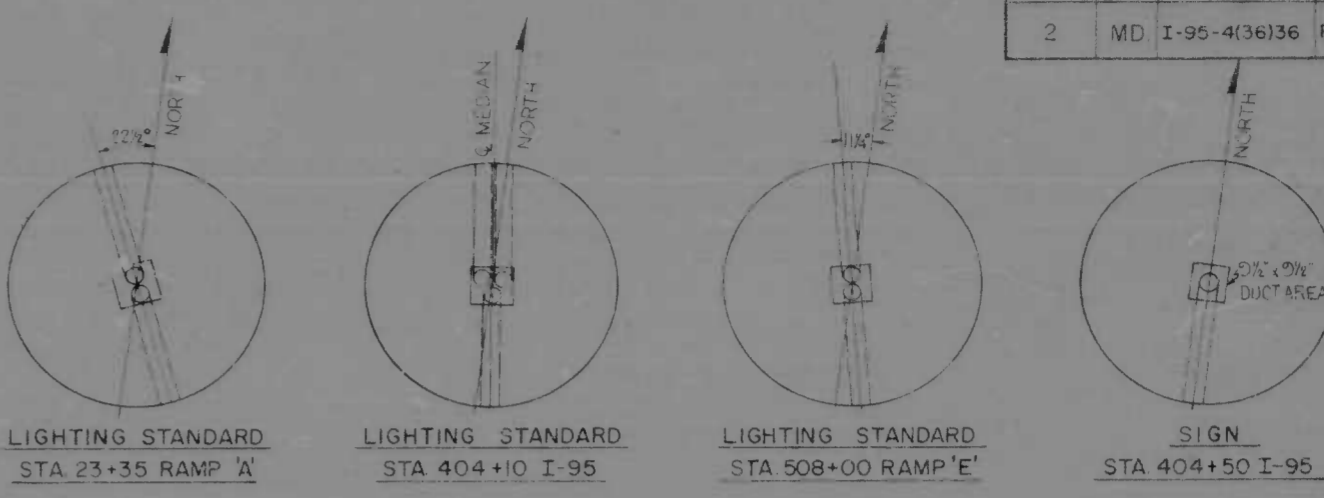
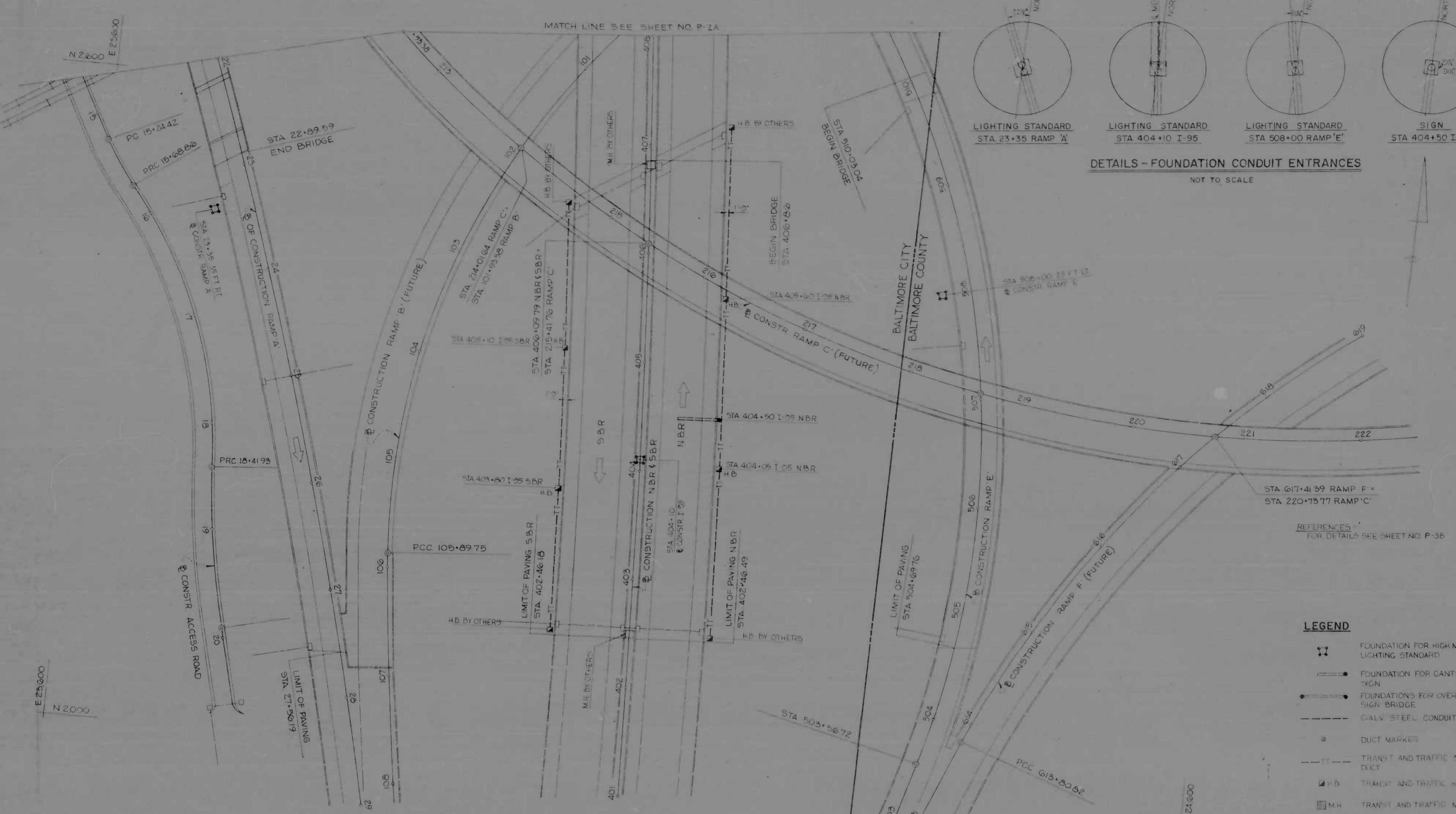
M-1 & I-23



M-1

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. 11/1/95. CONC. CRADLE	FINERLLE, BENNETT, STONE & ASSOC., INC. 100 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY: EW TRACED BY: EW F.A.P. NO. I-95-4/36/36 S.R.C. NO. BC 246-33-115 BALTO. CITY NO. 1995
		SCALE: Horiz 1"=40' Vert 1"=10'	DESIGN BY: FZ CHK BY: JLC SHEET NO. (92) P-15 OF P-15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	P-1A	(92) P-15



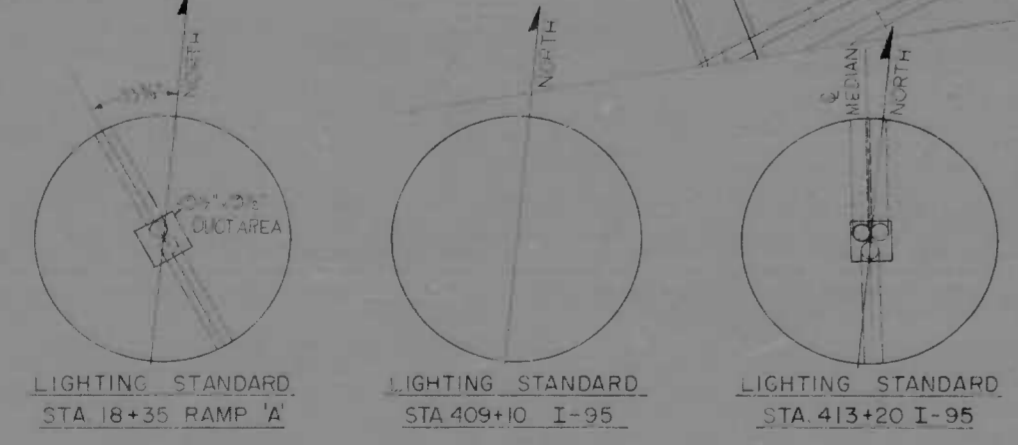
REFERENCES
FOR DETAILS SEE SHEET NO P-38

- LEGEND**
- FOUNDATION FOR HIGH MAST LIGHTING STANDARD
 - FOUNDATION FOR CANTILEVER SIGN
 - FOUNDATIONS FOR OVERHEAD SIGN BRIDGE
 - GALV STEEL CONDUIT
 - DUCT MARKER
 - TRANIT AND TRAFFIC FIBRE DUCT
 - TRANIT AND TRAFFIC HAND BOX
 - TRANIT AND TRAFFIC MANHOLE
 - EXISTING INLETS AND DRAINS

REVISIONS 1 ADDITION TO PLAN SHEETS 2 SUPPLIES	CONSULTANT KNOERL, BENDER, STONE & ASSOC., INC. AND MATZ, CHURCH & 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 NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	
SCALE: 1"=40' DATE:		DRAWN BY J.V.J. TRACED BY J.V.J. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 245-33-815 BALTO. CITY NO. 1995	DES. BY K.H. CHK. BY J.L.C. SHEET NO. (92) P-1A of P-15

CONTRACT NO. 4

PROJECT NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	P-2A	(92) P-15



DETAILS - FOUNDATION CONDUIT ENTRANCES
NOT TO SCALE

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. ADDITION TO PLAN SHEETS 2/28/99	KIMBLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY: J.V.J. TRACED BY: J.V.J. F.P.C. NO. I-95-4(36)36 S.P.C. NO. BC 246-33-815 BALTO. CITY NO. 1995
2. REVISIONS TO PLAN SHEETS 2/28/99			
SCALE: 1"=40'		DATE:	SHEET NO. (92) P-2A OF P-15

CONTRACT NO. 4



STA 43+25.00 TO STA 43+75.00
CONSTR MORAVIA RD
PC 43+19.50 RAMP C

MATCH LINE SEE SHEET
POT 43+25.00 & CONSTR MORAVIA RD
& LEFT POT 526+19.00 RAMP E

STA 202+00 RAMP E
REMOVE EXISTING LIGHTING STRIP
INSTALL NEW LIGHTING STRIP

STA 202+00 RAMP E
CONSTRUCT 20'-0" CONC
OUTLET DITCH TO OS DEPTH

STA 202+00 RAMP E
CONSTRUCT 20'-0" CONC
OUTLET DITCH TO OS DEPTH

STA 414+90 NBR SBR
CONSTRUCT 20'-0" CONC
OUTLET DITCH TO OS DEPTH

STA 414+90 NBR SBR
CONSTRUCT 20'-0" CONC
OUTLET DITCH TO OS DEPTH

STA 202+00 RAMP E
REMOVE EXISTING GUARD RAIL
INSTALL NEW GUARD RAIL

STA 202+00 RAMP E
CONSTRUCT TEMPORARY DELINEATOR
SEE DETAIL SHEET T-3

STA 202+00 RAMP E
CONSTRUCT TEMPORARY DELINEATOR
SEE DETAIL SHEET T-3

EXISTING RAMP E
APPROXIMATELY 40'-0"
NEW GUARD RAIL

STA 202+00 RAMP E
CONSTRUCT 20'-0" CONC
OUTLET DITCH TO OS DEPTH

STA 202+00 RAMP E
CONSTRUCT 20'-0" CONC
OUTLET DITCH TO OS DEPTH

FOR DUCT AND DUCT MARK SEE SHEET T-4

- BRIDGE APPROACH PAV.
- BITUMINOUS SHOULDER MATERIAL
- BITUMINOUS OVERLAY OR CONVENTIONAL REINFORCED CONCRETE (CONTRASTING PAVEMENT)
- CONVENTIONAL REINFORCED CONCRETE
- CONTINUOUSLY REINFORCED CONCRETE

SEE NEW
CHAIN LINK FENCE
STA 19+20.41 TO STA 7+00
RAMP A RT
STA 201+58 TO STA 208+27.68
RAMP C RT

REVISIONS	CONSULTANT
1. LIMIT OF RAISING RAMP E LIMIT OF RAISING RAMP E SCALE CHANGE	KNOFFEL, BERGER, STONE & ASSOC., INC. AND WATZ, 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 NORTH OF HERRING RUN
TO NORTH OF B & O RAILROAD

DRAWN BY: F.W.
TRACED BY: F.W.
F.P. NO. I-95-4136/36
P.C. NO. BC 246-33-815
BALTO. CITY NO. 1995

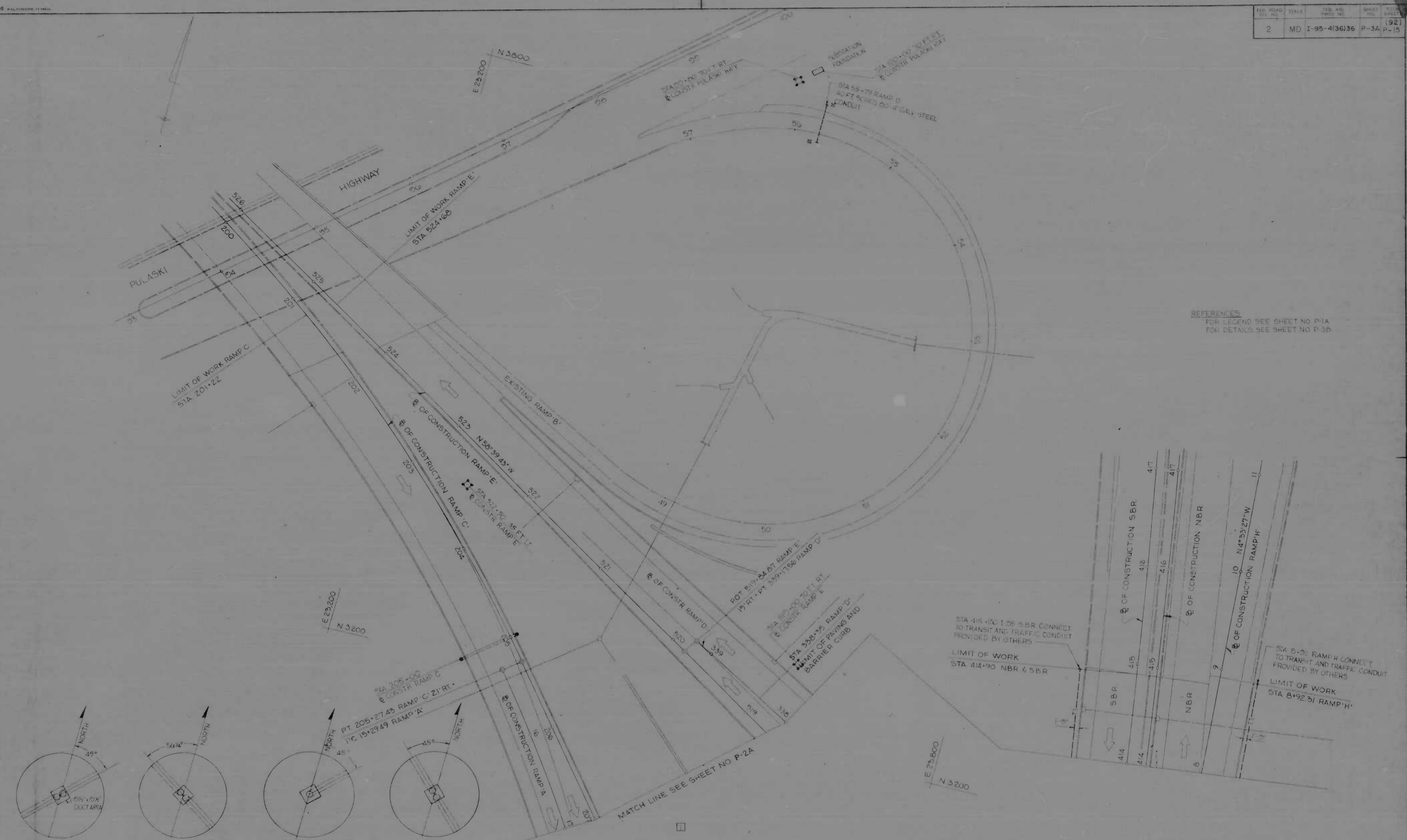
DES. BY: JEL
CHK. BY: JLC

SHEET NO. (92)
P-3 OF P-15

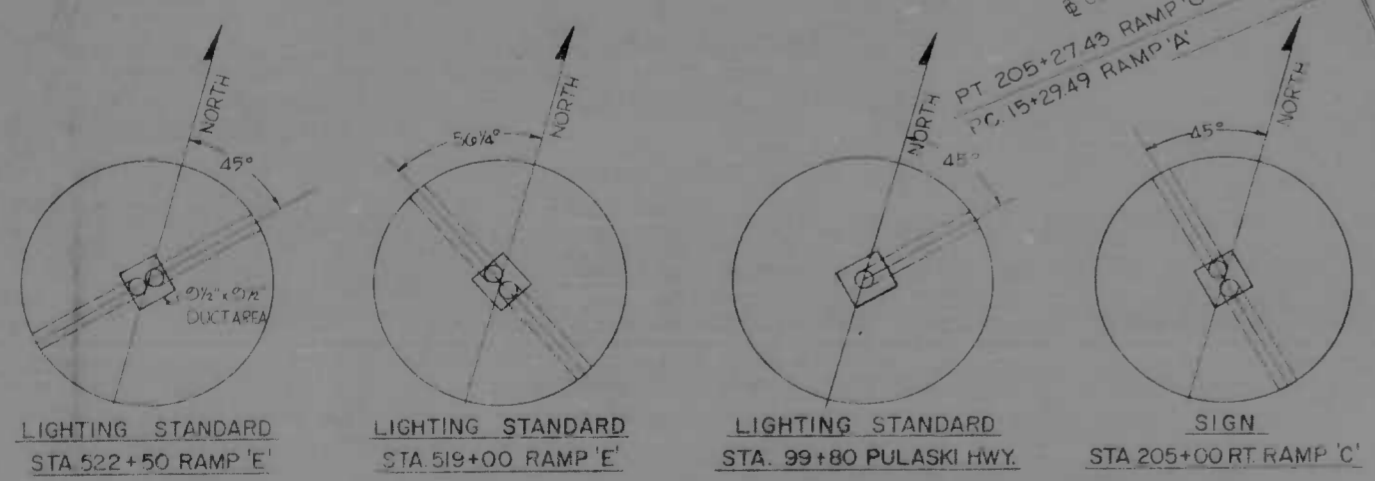
SCALE: 1" = 40'

DATE

FILE NO.	STATE	DESIGN NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	P-3A	(92)
				P-15



REFERENCES
 FOR LEGEND SEE SHEET NO P-1A
 FOR DETAILS SEE SHEET NO P-3B



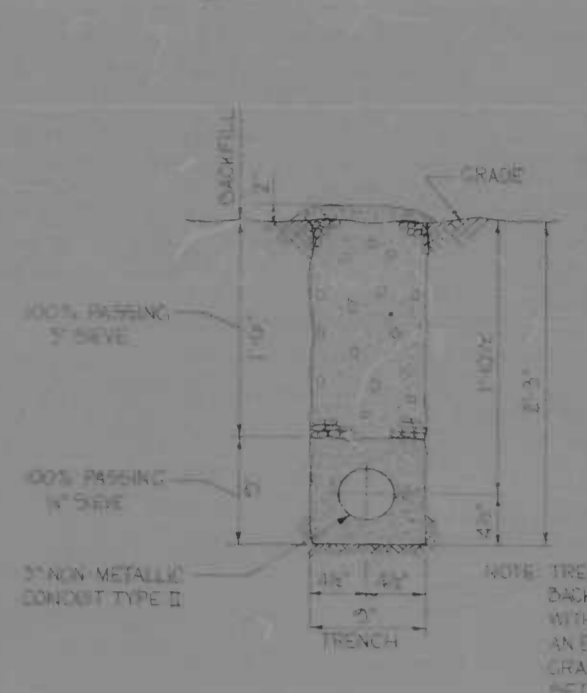
DETAILS - FOUNDATION CONDUIT ENTRANCES

NOT TO SCALE

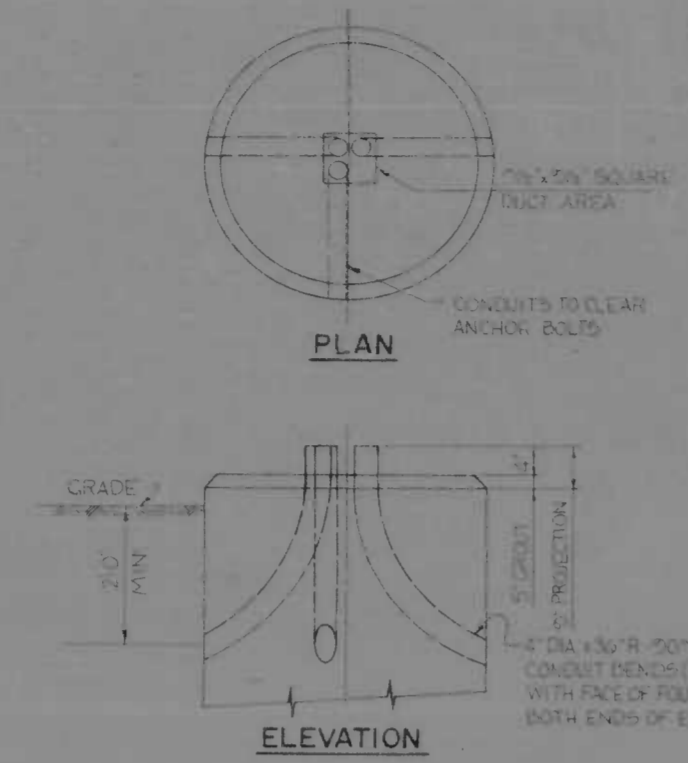
REVISIONS 1. ADDITION TO PLAN SHEETS 2/28/75	CONSULTANT KNOERLE, BENDIS, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 384 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY: J.V.J. TRACED BY: J.V.J. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815 BALD. CITY NO. 1995
SCALE: 1" = 40'		DATE:	

CONTRACT NO. 4

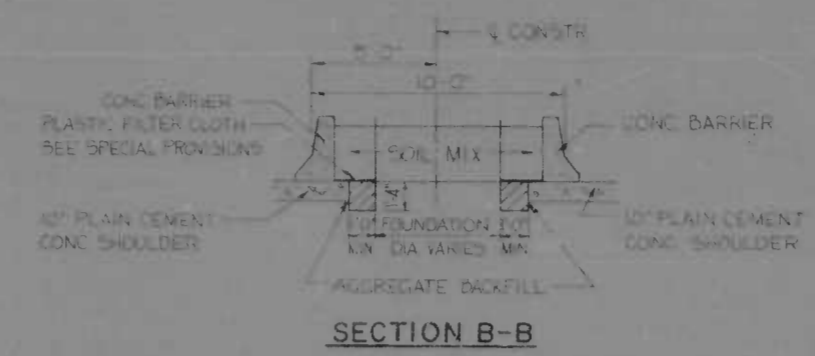
REV. NO.	DATE	REV. NO.	DATE	TOTAL SHEETS
2	MO. 1-95-4136/36	P-3B	P-15	1921



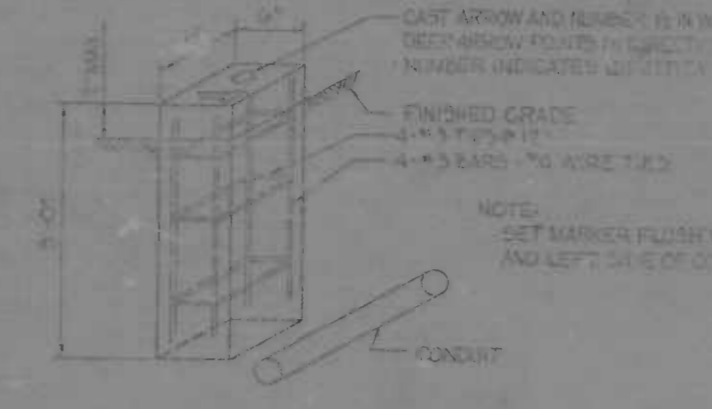
TRANSIT & TRAFFIC DUCT
NO SCALE



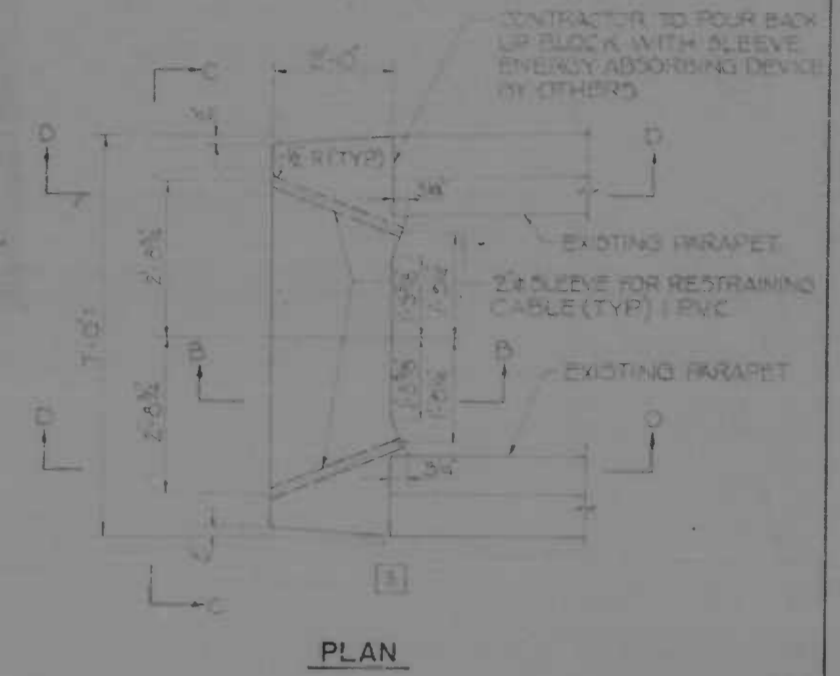
THREE WAY DUCT ENTRANCE IN LIGHTING AND SIGNING FOUNDATIONS
NO SCALE



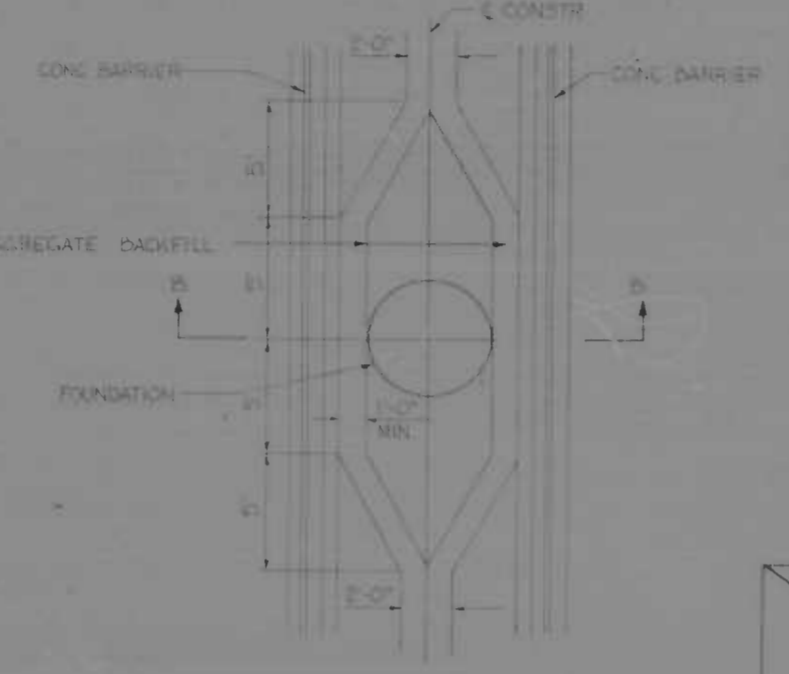
SECTION B-B



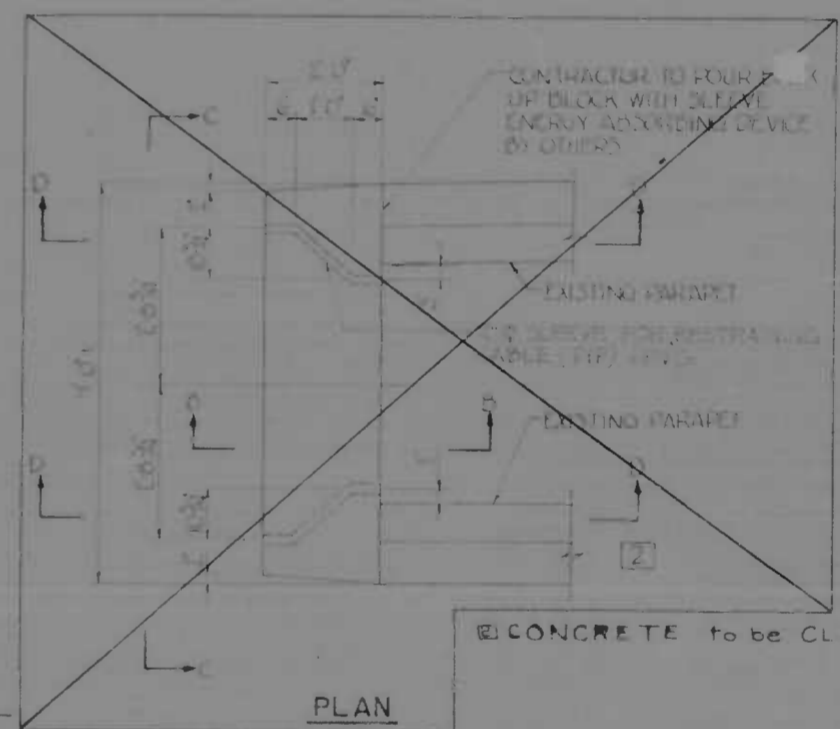
CONCRETE DUCT MARKER
NO SCALE



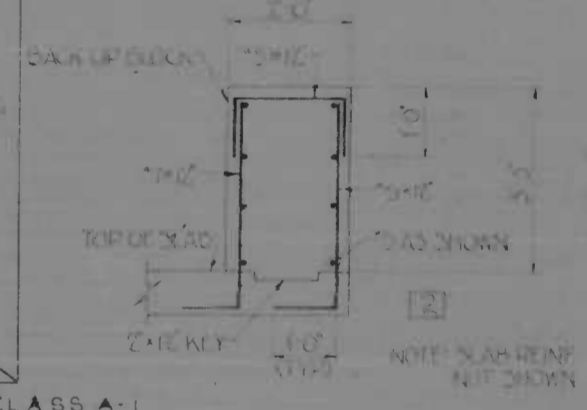
PLAN



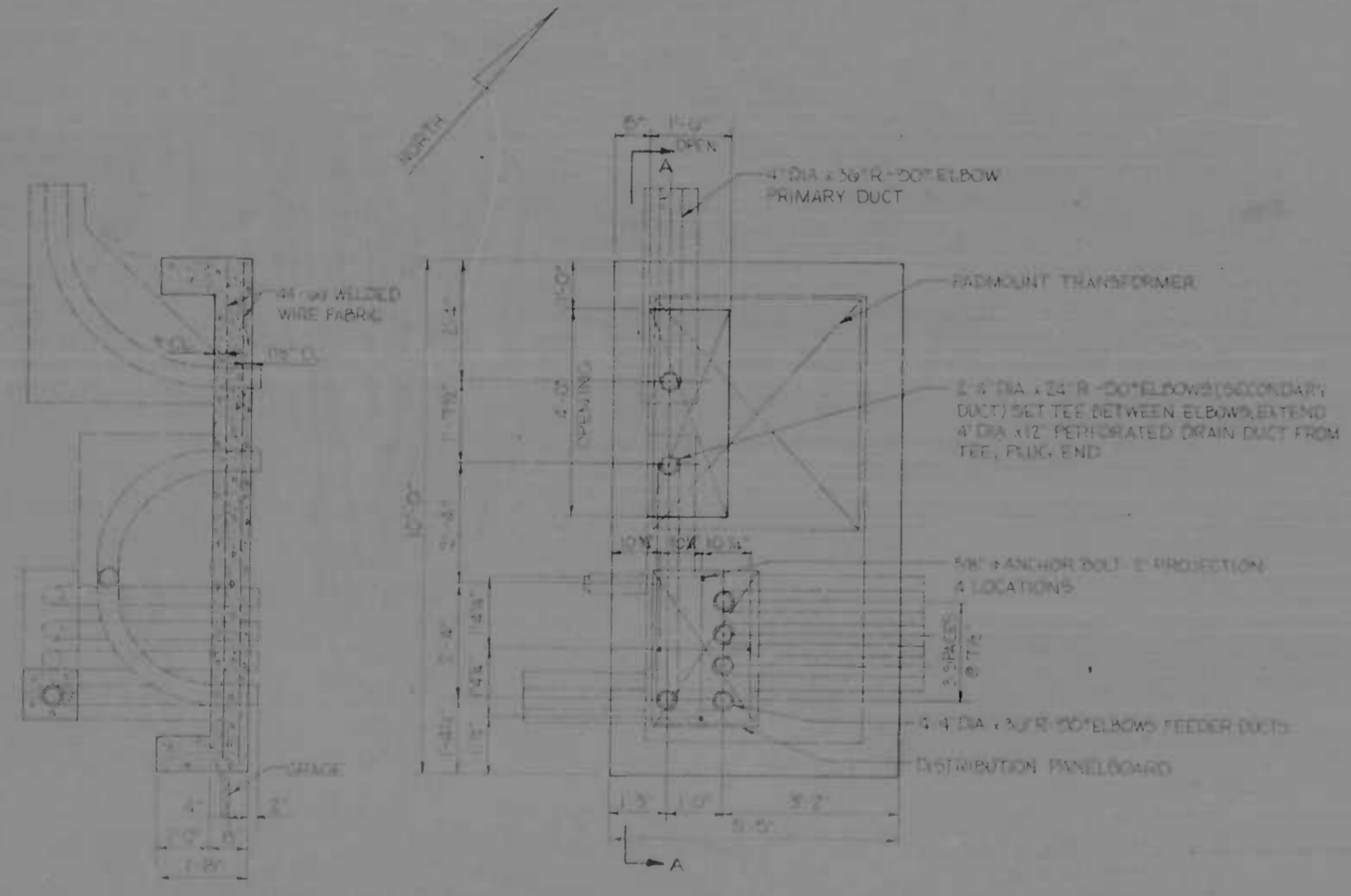
MEDIAN UNDERDRAIN TREATMENT FOR HIGH MAST LIGHTING & DTT MANHOLES
NO SCALE



PLAN



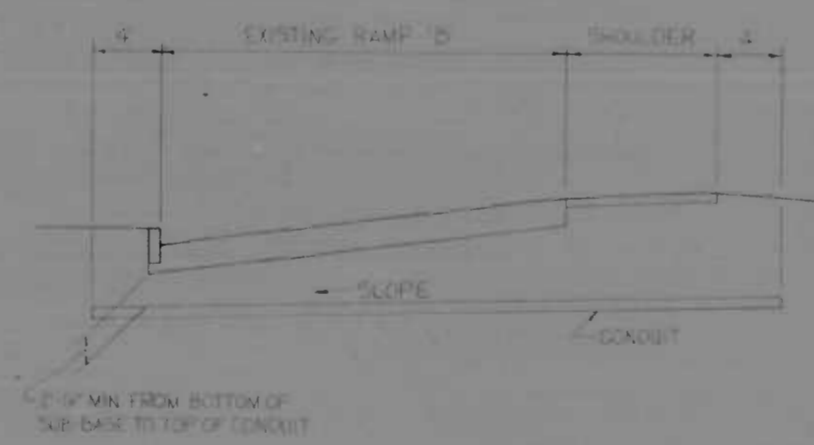
SECTION B-B



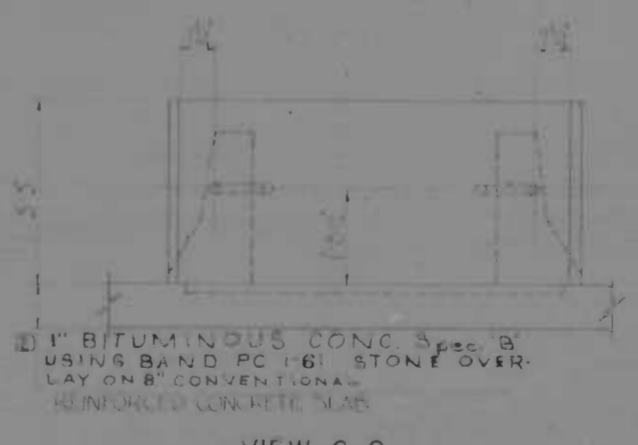
SECTION A-A

PLAN

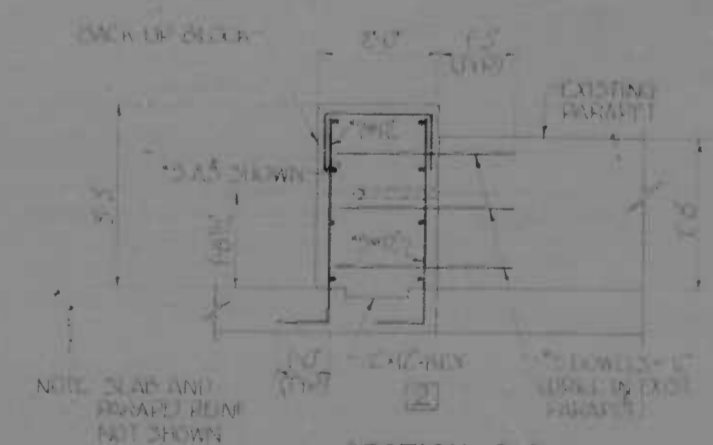
SUBSTATION FOUNDATION
NO SCALE



CONDUIT UNDER EXISTING RAMP 'B' STA. 55+75
NO SCALE



VIEW C-C

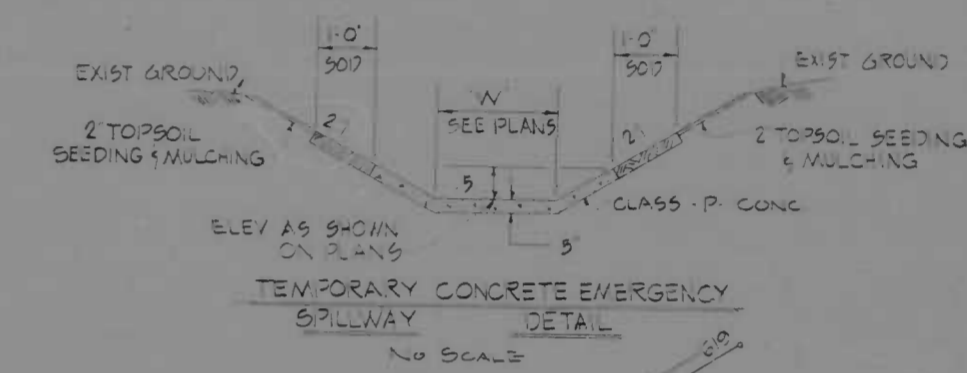
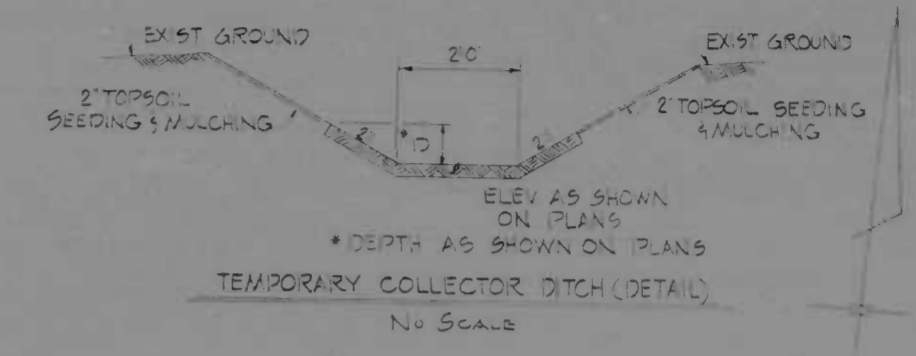


SECTION D-D

BACK UP BLOCK DETAIL
SCALE: 1/2\"/>

REVISIONS 1. ADDITION TO PLAN SHEETS 2/28/73 2. REVISION TO PLANS 5/16/73 3. ADD TO REVISION TO SLEEVE IN BACK UP BLOCK	CONSULTANT KIMBLE, BENDER, STONE & ASSOC., INC. AND MATT, CHMDS & ASSOC., INC. CONSULTING ENGINEERS 901 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 NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD SCALE AS SHOWN DATE	DRAWN BY: J.W.S. TRACED BY: J.W.S. F.P. NO. 1-95-4136/36 S.E.C. NO. HC 248-33-5/5 BALTO. CITY NO. 1992 DES. BY: K.H. CHK. BY: J.L.C. SHEET NO. (921) P-3B OF P-15
---	--	---	---

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	P-4	(92) P-15



NOTE 1: GRADING AS SHOWN ON THIS SHEET IS THE FINAL GRADING FOR THE AREA BETWEEN THE ACCESS RD AND THE MAINLINE. FINAL GRADING FOR AREAS BETWEEN MAINLINE AND RAMP E AND EAST OF RAMP E SEE PLAN SHEET NO. D-7.

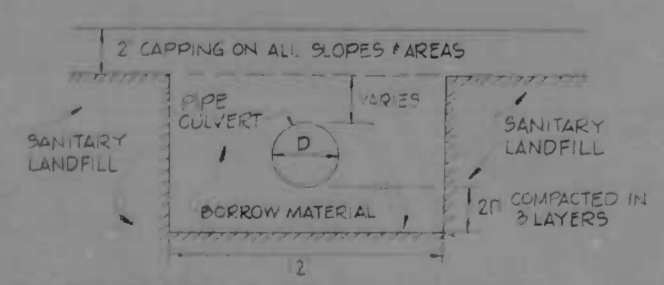
NOTE 2: REQUIRED ROADWAY EMBANKMENT FOR MAINLINE, RAMP A, FUTURE RAMP B, RAMP E AND ACCESS ROAD IS TO BE CONSTRUCTED ACCORDING TO THE TYPICAL SECTIONS AND SPECIFICATIONS SHOWN ON SHEET NO. T-5A AND SPECIAL PROVISIONS.

LEGEND

- BRIDGE APPROACH SLAB
- TERMINAL JOINT
- EXPANSION JOINT
- CONTRACTION JOINT

Note: For Longitudinal Joint Locations, Pavement and Joint Details, see Typical Section and Pavement Detail sheets.

BACKFILL TRENCH FOR PIPES THROUGH DUMP MATERIAL



THIS TREATMENT IS TO BE USED WHEN ANY OF THE PIPE CULVERTS PASS THROUGH AREAS OF SANITARY LANDFILL. THE 12' WIDTH WAS SELECTED SO THAT THE EXCAVATION COULD BE PERFORMED WITH GRADING EQUIPMENT. THE PRICE BID FOR PIPE SHALL INCLUDE THE INSTALLATION OF PIPE, TRENCH, & BORROW MATERIAL.

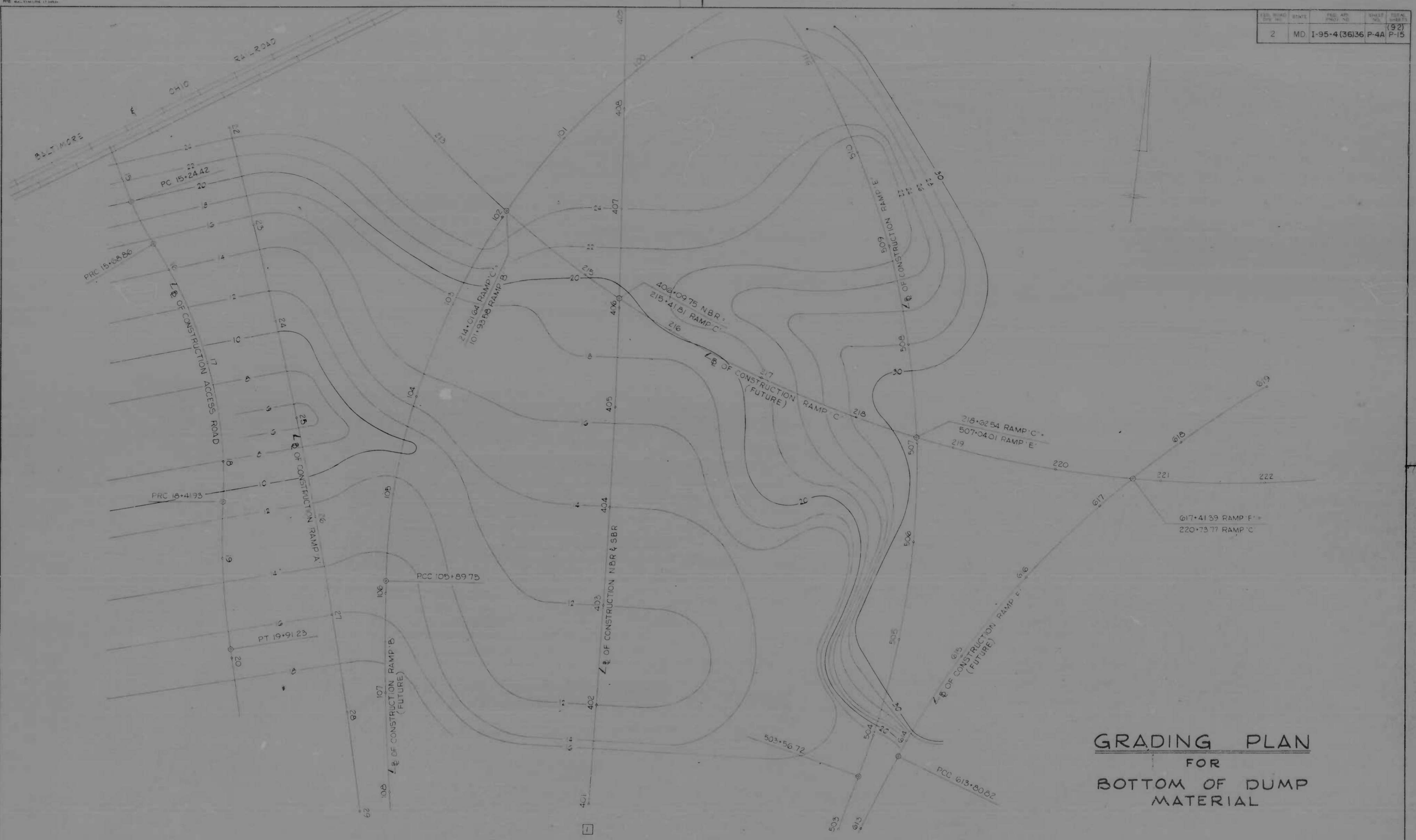
REVISIONS 1) Appendix No. 3, Aug 3, 1971 Grading Revision	CONSULTANT KYORLE, BENNER, STONE & ASSOC., INC. AND HATT, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD		DRAWN BY: FW TRACED BY: FW F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815 BALTO. CITY NO. 1995	DES. BY: TEL CHK BY: JLC

140 LF OF 2'-0" TEMPORARY 60D COLLECTOR DITCH TO 15" DEPTH

SCALE: 1" = 40'

DATE:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36 P-4A	(92)	P-15



**GRADING PLAN
FOR
BOTTOM OF DUMP
MATERIAL**

REVISIONS <input type="checkbox"/> Addendum No. 3 Aug 3 97 New Grading Sheet Added	CONSULTANT K. G. 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 DIVISION FOR BALTIMORE CITY	
		INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD		DRAWN BY J.V.J. TRACED BY J.V.J. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815 BALTO. CITY NO. 1995	DES. BY TEL CHK. BY J.L.C.
SCALE: 1" = 40'		DATE:			



CONSTRUCT 18" CONCRETE EMERGENCY SPILLWAY 212' x 2'-0" SEE PLAN FOR LOCATION

STA 1150 TO STA 3150 RE 18" RAILROAD BRIDGE
CONSTRUCT TEMPORARY 24" 90' COLLECTOR TO TIE IN TO D 110

NOTE FOR PROFILE AND DETAIL OF RIVER PIPE AND DISCHARGE PIPE SEE SHEET P-5 OF P-4

NOTE:
 [] DELETE GRADING PLAN BETWEEN RAMPS C/E AND B/F R.R. FOR REVISED GRADING. SEE SHEET P-6A.

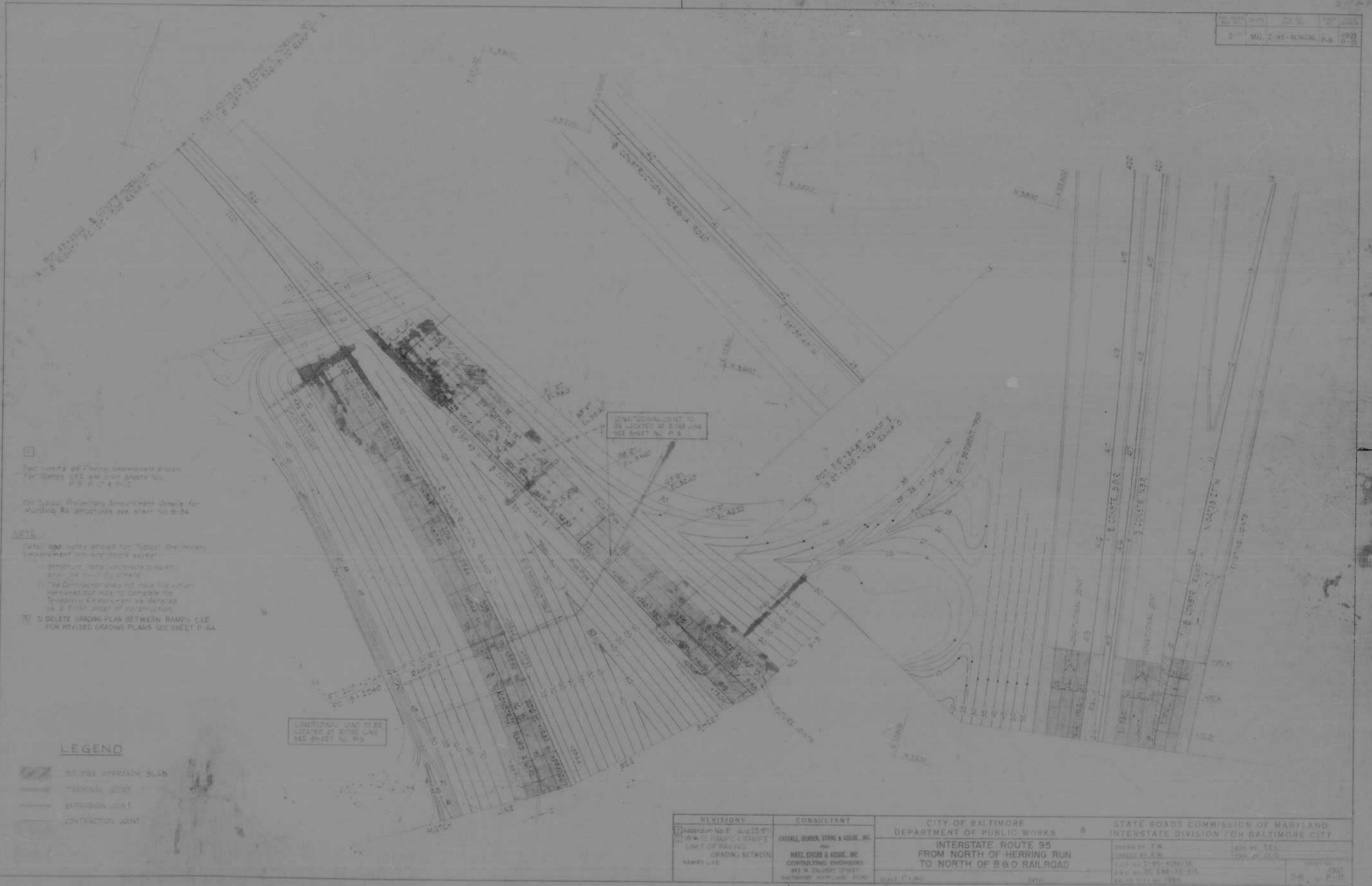
LEGEND

- 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.

REVISORS [] DELETE GRADING BETWEEN RAMPS C/E AND B/F R.R.	CONSULTANT HARVEY, GENDER, TIERI & ASSOC., INC. OR HARTY, CHASE & ASSOC., INC. CONSULTING ENGINEERS 941 T. LAWRENCE STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY: E.W. CHECKED BY: J.L.O. P.E.P. NO. 1-95-413038 S.P.C. NO. 90-248-33-015 BALTO. CITY NO. 1992
SCALE: 1" = 40'		DATE:	SHEET NO. 192 OF 195

NO.	DATE	BY	REVISION
2	MAY 2-45	W. H. HARRIS	REVISED



See limits of Flying Suspension Span for Details see sheet P-54
 For Typical Retaining Structures Details for Maryland see structures see sheet P-54

- NOTE**
- 1) Data and notes shown for Typical Retaining Structures are not to be used except as shown.
 - 2) The Contractor shall not make the actual extension of the data to the first order of construction.
 - 3) DELETE GRADING PLAN BETWEEN RAMP'S C & E FOR REVISED GRADING PLANS SEE SHEET P-54

LEGEND

- CONCRETE APPROACH SLAB
- TYPICAL JOINT
- EXPANSION JOINT
- CONTRACTION JOINT

CONDITIONAL JOINT TO BE LOCATED AT 2+00 SEE SHEET P-53

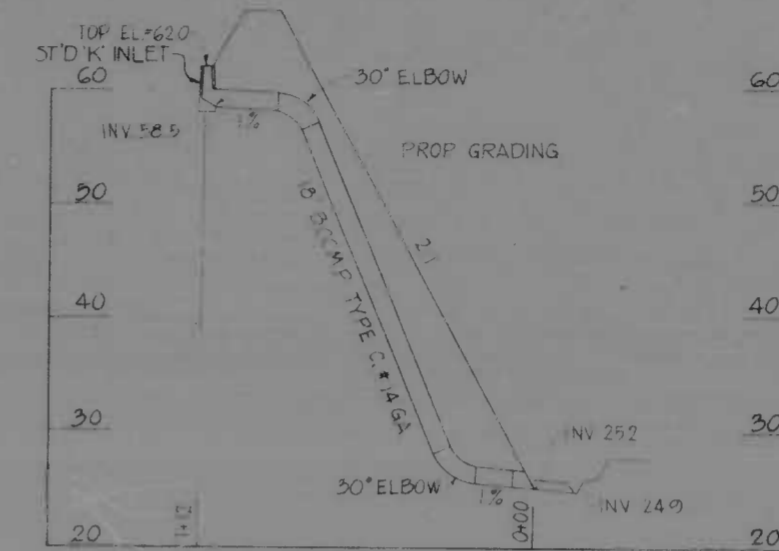
CONDITIONAL JOINT TO BE LOCATED AT 2+00 SEE SHEET P-53

REVISIONS 1. Addendum No. 2, Aug 23, 1951 10-4-51 RAMP'S C & D LIMIT OF GRADING GRADING BETWEEN RAMP'S C & E	CONSULTANT CHURCH, SMITH, STEIN & ASSOC., INC. 301 N. CALVERT STREET BALTIMORE, MARYLAND	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY 1000 W. F.W. 1000 W. F.W. 1000 W. F.W.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	P-6A	192

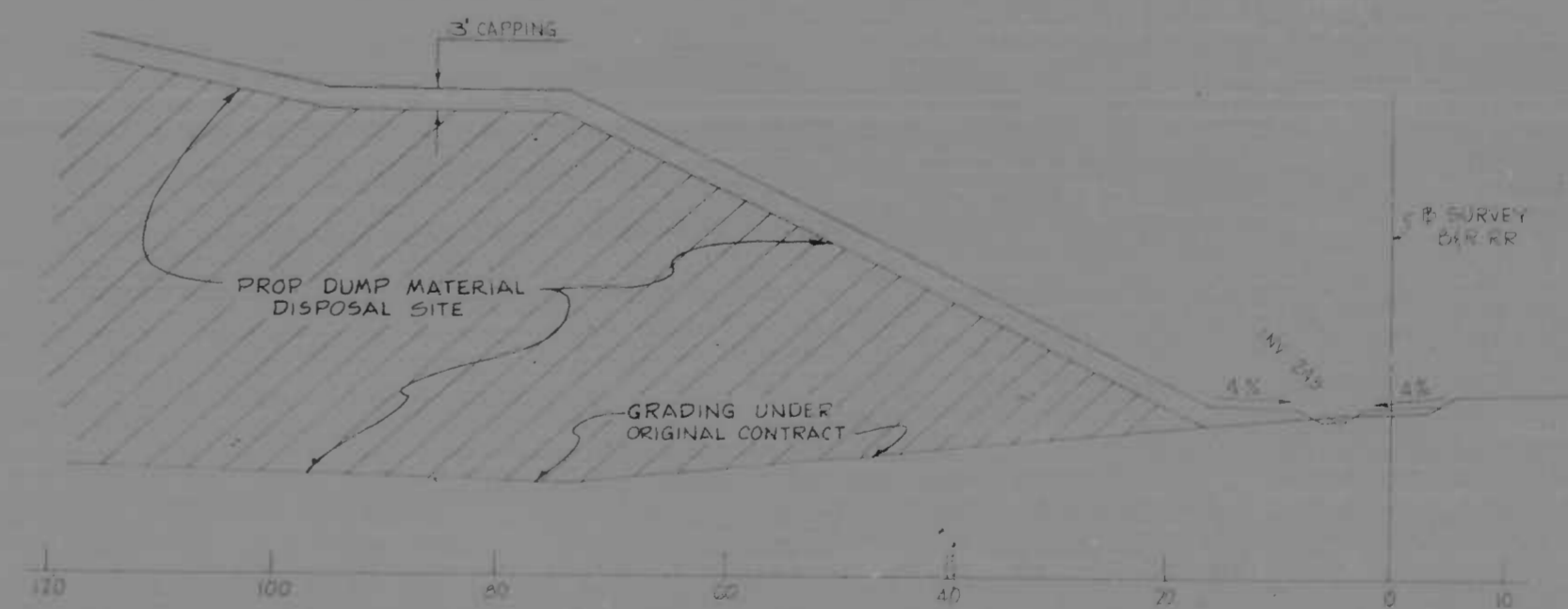
DUMP DISPOSAL SITE NO.3 GRADING PLAN

- 1 STA 518+50 TO STA 520+75 RAMP E LT
CONSTRUCT 2 SIDE DITCH 50D TO 05' DEPTH
THE CONTRACTOR SHALL GRADE THE DITCH
TO MEET THE GRATE OF THE EXIST INLET
- 2 STA 520+50 RAMP E LT
RAISE EXIST MH 110 TO ELEV 550
- 3 STA 205+50 TO STA 210+25 RAMP C
LT CONSTR 2 SIDE DITCH 50D TO 05'
DEPTH
- 4 STA 3+50 TO STA 6+00 B&O RR LT
CONSTR 2 SIDE DITCH - PAVE TO 1' DEPTH
- 5 STA 210+25 RAMP C LT TO STA 3+40 SURVEY
B&O RAILROAD
100-15' BCCMP TYPE C #146A
1 STANDARD TYPE K INLET
05' EXTRA DEPTH
1 STANDARD END SECTION FOR 15' CMP
1 1/2" CONCRETE OUTLET DITCH



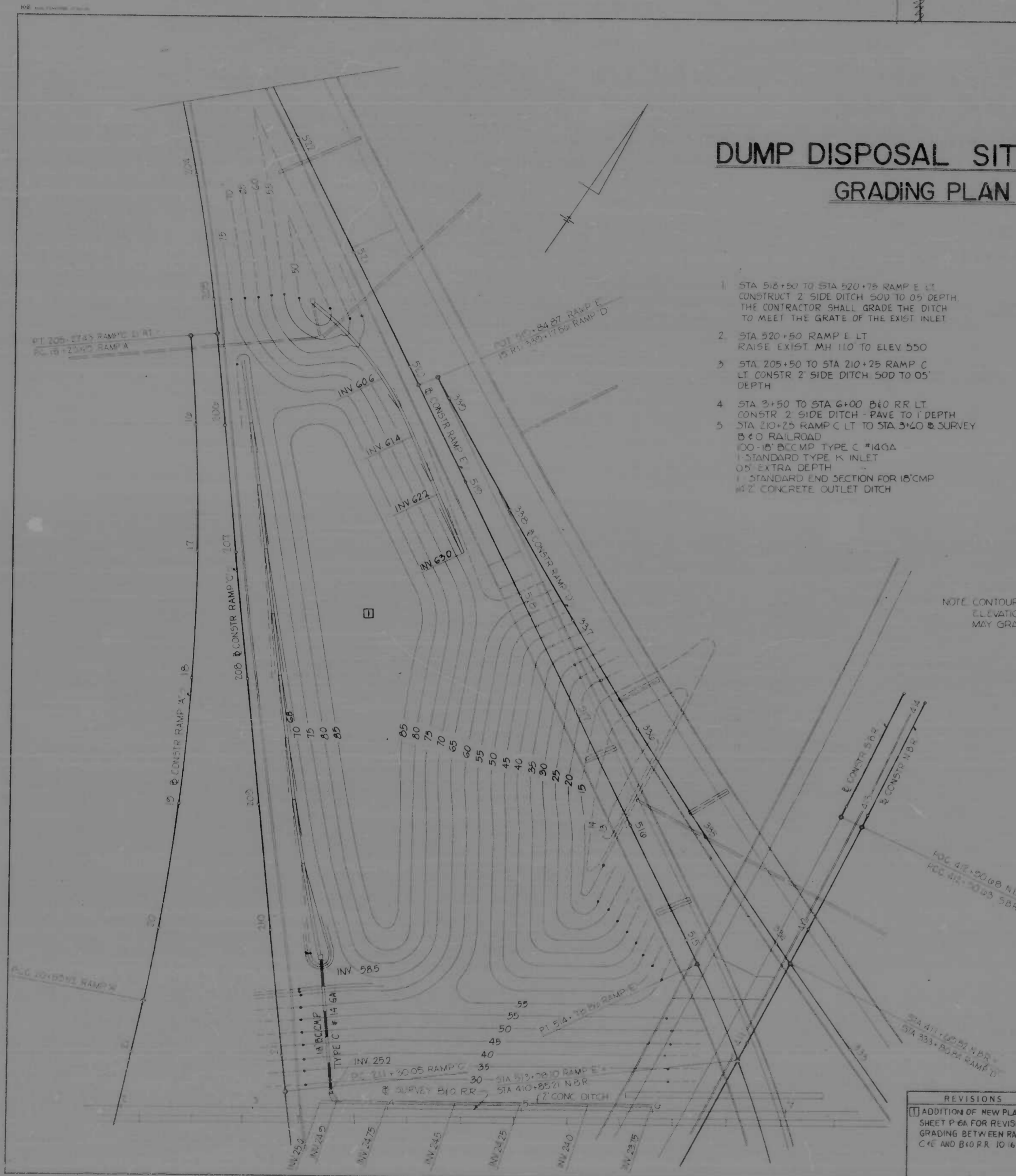
PIPE PROFILE

NOTE: CONTOURS SHOWN ARE MAX
ELEVATIONS, HOWEVER CONTRACTOR
MAY GRADE TO LOWER ELEVATIONS.



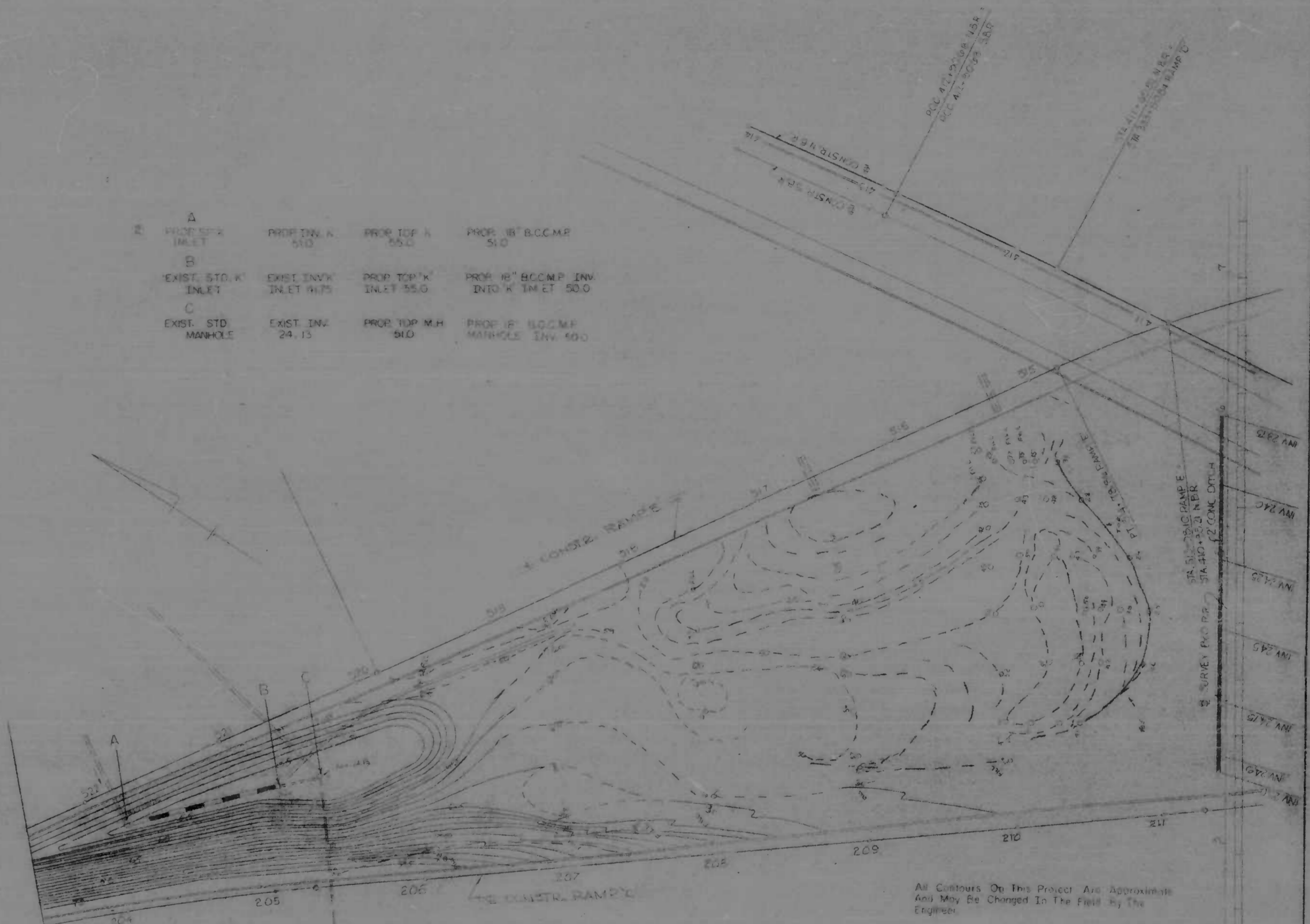
TYPICAL SECTION

REVISIONS [1] ADDITION OF NEW PLAN SHEET P-6A FOR REVISED GRADING BETWEEN RAMP C AND B&O RR TO 16-72	CONSULTANT KIMBLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHURCH & ASSOC., INC. CONSULTING ENGINEERS 343 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 NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD		DRAWN BY: J.W.S. TRACED BY: J.W.S. F.A.P. NO. I-95-4(36)36 S.P.C. NO. BC 246 33-815 BALTO. CITY NO. 1995	DES. BY: K.H. CHK. BY: J.L.C.



P.L. ROAD	STATE	REL. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	17C-10336	Page	

A	PROP. 18" INLET	PROP. INV. A 51.0	PROP. TOP K 55.0	PROP. 18" B.C.C.M.P. 51.0
B	EXIST. STD. K INLET	EXIST. INV. INLET 49.75	PROP. TOP K INLET 55.0	PROP. 18" B.C.C.M.P. INTO K INLET 50.0
C	EXIST. STD. MANHOLE	EXIST. INV. 24.13	PROP. TOP M.H. 51.0	PROP. 18" B.C.C.M.P. MANHOLE INV. 50.0



Prop. K L. Sta. 520+ to 521+
 Construct 18" K Inlet L.L. Sta. 521+90 Inv. 51.0
 Add 18" B.C.C.M.P.
 Adjust Exist. K Inlet L.L. Sta. 520+50 (10')
 Adjust Exist. Std. Manhole L.L. Sta. 520+90 (17')
 Std. K Inlet Not Traffic
 2' Vert. Depth

REVISIONS RED LINE REVISION ADDITION TO EXIST CONT. 11/2/72	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		DRAWN BY TRACED BY F.A.P. NO. S.R.C. NO. BALTO. CITY NO.	DES. BY CHK. BY	SHEET NO. 2675	

SP 22

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4136136	P-7	(92)



NOTE GRADING AS SHOWN ON THIS PLAN SHEET SHOWS THE DUMP DISPOSAL SITES WHICH WILL BE BUILT AS SANITARY LANDFILL AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROADWAY EMBANKMENT REQUIRED SEE PLAN SHEET T-5A

NOTE FOR PROFILE AND DETAIL OF RISER PIPE AND DISCHARGE PIPE SEE SHEET T-4 OF T-5 CONCRETE 20 EMERGENCY 80% SLOPE TO 4" x 8" AND AT 80% SLOPE

20 X 20 PLACED CLASS I MEDIUM RIP RAP

34" - 2' TEMPORARY SOD COLLECTOR DITCH @ 1.5'

REVISIONS	CONSULTANT
1. Addendum No. 3, Aug 3, 1971 Grading Revision	KROEHL, BENNETT, STONE & ASSOC., INC. AND MAY, GIBBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS &
INTERSTATE ROUTE 95
FROM NORTH OF HERRING RUN
TO NORTH OF B & O RAILROAD

STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	DRAWN BY: D.M. TRACED BY: D.M.	DES. BY: K.H. CHK. BY: J.L.C.	SHEET NO. P-7 of P-15
F.A.P. NO. I-95-4136136 S.R.C. NO. BC 241-33-815 BALTO. CITY NO. 1195	DATE		

SCALE: 1" = 40'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	Q-1	(92) Q-7

EARTHWORK SUMMARY

STATION FROM	STATION TO	CUT	EMBANKMENT	SELECT BORROW	TOPSOIL		UNSUITABLE MATERIAL		CLASS 3	CUT ADJUSTED	CUT DENSIFIED	DUMP ** REMOVAL	REMARKS
					CUT	FILL	CUT	FILL					
MAINLINE													
40+00 TO 40+25			118.86	12.204					1250	1400	1325	144.700	CLASS 3 EXC FOR IBB STRUCT. & ROOT MAT
41+00 TO 41+50		174	128.435										
RAMP A													
22+00 TO 28+17			48060	6376					90			93.700	CLASS 3 EXC FOR RAMP A STRUCT
RAMP A/C													
201+22 TO 210+50		330	104099		88	330	2957		0	0			* TOPSOIL & ROOTMAT
RAMP B													
07+00 TO 10+50		58	33.568	170					58	58		81.600	* SRC QUANTITY
10+50 TO 107+50			2906	4342									
RAMP C													
201+22 TO 210+50			42780						25				* SRC QUANTITY
RAMP E													
503+77 TO 510+00			66370						340			33.500	CLASS 3 EXC FOR RAMP E STRUCT
RAMP E													
518+304 TO 524+68		67	30448		566	67	743		0	0			* TOPSOIL & ROOTMAT
RAMP D													
518+304 TO 524+68			9203						25				* SRC QUANTITY
RAMP F													
613+81 TO 616+00			9413										* SRC QUANTITY
BED RR													
1+00 TO 8+50		338	41420						338	337		11.500	
ACCESS ROAD													
10+00 TO 14+50		378	12115						50	14			
14+50 TO 20+60		500	3166	170					500	470			
BORROW PILES CELL CAPPING													
			46000										
BORROW FOR LANDFILL CAPPING													
			34000										
BEDIMENT TREATMENT BASINS													
		11,382	2,590						11,382	10,699			
TOTAL		14,815	787,847	24,271		634	298	3962	1,930	13,897	13,027	368,000	* DENOTES STATE ROADS COMMISSION PARTICIPATION. ALL SF 94 UNLESS OTHERWISE NOTED

CLASS 1 EXCAVATION

CUT	148.5	CU YDS.
PLUS: TOPSOIL REMOVED UNDER FILL	634	CU YDS.
ROOT MAT REMOVED UNDER FILL	596.2	CU YDS.
TOTAL CLASS 1 EXCAVATION	2,148.1	CU YDS.
EXCAVATION AVAILABLE FOR EMBANKMENT		
TOTAL CLASS 1 EXCAVATION	2,148.1	CU YDS.
MINUS: TOPSOIL REMOVED UNDER FILL	634	CU YDS.
ROOTMAT REMOVED UNDER FILL	596.2	CU YDS.
ROOTMAT REMOVED IN CUT	95.8	CU YDS.
CUT ADJUSTED	1,389.7	CU YDS.
CUT DENSIFIED (94)	1,302.7	CU YDS.
PLUS: CLASS 2 EXCAVATION	227.9	CU YDS.
CLASS 3 EXCAVATION	173.7	CU YDS.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	17,039.9	CU YDS.

EMBANKMENT REQUIRED

EMBANKMENT	787,847	CU YDS.
PLUS: TOPSOIL REMOVED UNDER FILL	634	CU YDS.
ROOT MAT REMOVED UNDER FILL	596.2	CU YDS.
TOTAL EMBANKMENT REQUIRED	794,463	CU YDS.
EXCAVATION AVAILABLE FOR EMBANKMENT		
BORROW REQUIRED	777,424	CU YDS.
BORROW DENSIFIED (10%)	77,742	CU YDS.
TOTAL BORROW REQUIRED	855,166	CU YDS.

PROPOSAL QUANTITIES

CLASS 1 EXCAVATION	2,150	CU YDS.
CLASS 2 EXCAVATION	3,500	CU YDS.
CLASS 3 EXCAVATION	2,600	CU YDS.
DUMP REMOVAL		LUMP SUM
CONTINGENT DUMP REMOVAL	15,000	CU YDS.
BORROW EXCAVATION	856,000	CU YDS.
CONTINGENT BORROW EXCAVATION	85,000	CU YDS.
SELECT BORROW EXCAVATION	24,900	CU YDS.
CONTINGENT SELECT BORROW EXCAVATION	3,000	CU YDS.

LANDSCAPING QUANTITIES

LOCATION	2" TOPSOIL, SEEDING & MULCHING
402+00 TO 406+50 M	808.5
411+00 TO 414+50 M	11.67
22+00 TO 28+17 RAMP A	3,979
201+22 TO 210+50 RAMP A/C	18,267
07+00 TO 107+50 RAMP B	6,683
303+00 TO 510+00 RAMP E	4,747
518+304 TO 524+68 RAMP D	4,322
1+00 TO 8+50 BED RAILROAD	5,308
10+00 TO 14+50 ACCESS ROAD	4,233
14+50 TO 20+60 ACCESS ROAD	3,411
AREA WEST OF RAMP A AND SOUTH OF BED RR	19,022
TOTAL	146,688
PLUS 10%	14,669
TOTAL TOPSOIL SEEDING & MULCHING	161,357
PROPOSAL QUANTITY	161,000

CLASS 2 EXCAVATION

FROM DRAINAGE SHEET:	
TOTAL CLASS 2 EXCAVATION	2925
MINUS: ROOT MAT REMOVED IN CUT RAMP A/C	330
ROOT MAT REMOVED IN CUT RAMP E	67
TOTAL CLASS 2 EXCAVATION	2,528
LOSS DUE TO HANDLING AND DENSIFICATION (10%)	253
TOTAL CLASS 2 EXCAVATION AVAILABLE FOR EMBANKMENT	2,275

CLASS 3 EXCAVATION

FROM GRADING TABLE:	
TOTAL CLASS 3 EXCAVATION	1930
LOSS DUE TO HANDLING AND DENSIFICATION (10%)	93
TOTAL CLASS 3 EXCAVATION AVAILABLE FOR EMBANKMENT	1,837

TOPSOIL ANALYSIS

2" TOPSOIL REQUIRED (161,000 x 18)	80,500
TOPSOIL AVAILABLE:	
TOPSOIL REMOVED UNDER FILL	634
LESS 10% SHRINKAGE	63
TOTAL TOPSOIL AVAILABLE	580
APPARENT ADDITIONAL TOPSOIL REQUIRED	836
TOPSOIL FURNISHED AND PLACED - 2" DEPTH (836 x 18)	50,498
PROPOSAL QUANTITIES	
PLACING SALVAGED TOPSOIL - 2" DEPTH (580 x 18)	10,600
TOPSOIL FURNISHED & PLACED - 2" DEPTH	15,000

** THE DUMP REMOVAL QUANTITY SHOWN IS FOR INFORMATIONAL PURPOSES ONLY

REVISIONS 1 Addendum No 4 Aug 91 Earthwork Summary & Analysis Revision	CONSULTANT KNOERLE, 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 NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY DRAWN BY F.W. TRACED BY F.M. F.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815 BALTO. CITY NO. 1995
SCALE: NONE		DATE:	DES. BY R.H. CHK. BY R.H. SHEET NO. (92) Q-1 of Q-7

SUMMARY OF QUANTITIES

3/20

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	Q-2	Q-7

STATION	GRADING								DRAINAGE										REMARKS		
	CLASS 2 EXCAVATION			24" RC PIPE CLASS 5	30" RC PIPE CLASS 5	18" BCCM PIPE TYPE 'C' NO. 12 GA	24" BCCM PIPE TYPE 'A' NO. 12 GA	18" BCCM PIPE TYPE 'C' NO. 14 GA	24" BCCM PIPE TYPE 'C' NO. 14 GA	30" ELBOW FOR 18" BCCM PIPE TYPE 'C' NO. 14 GA	30" ELBOW FOR 24" BCCM PIPE TYPE 'C' NO. 14 GA	STD METAL END SECTION FOR 18" CM PIPE	STD METAL END SECTION FOR 24" CM PIPE	STD TYPE 'C' ENDWALL FOR 18" PIPE	STD TYPE 'C' ENDWALL FOR 30" PIPE	SPECIAL TYPE 'K' INLET NON-TRAFFIC AREAS MIN DEPTH	SPECIAL TYPE 'K' INLET NON-TRAFFIC AREAS VERT DEPTH	STD TYPE 'S' INLET DOUBLE GRATE TANKS MIN DEPTH		STD TYPE 'Y' INLET DOUBLE GRATE TANKS VERT DEPTH	ADJUST INLET
	CY		LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	EA	LF	EA	EA	
PLAN SHEET P-1																					
MAINLINE																					
402+53 LT & RT						20		40													
436+43 TO 407+18 RT						30		34													
RAMP A																					
23+25 RT								44		2											
25+00 LT & RT						26		50													
27+5 LT & RT						46		54		2											
RAMP E																					
509+75 LT								30		2											
507+50 LT								30		2											
504+75 LT								40													
ACCESS ROAD																					
20+65 LT & RT								80								2	08				
PLAN SHEET P-2																					
MAINLINE																					
412+25 LT						336															
RAMP A																					
17+50 RT								68		2											
20+45 RT								82		2											
PLAN SHEET P-3																					
MAINLINE																					
414+50 LT & RT																					
RAMP X																					
13+40						250															
RAMP C																					
202+00 RT								52		2											
205+00 LT								28													
205+25 TO 20+50	628																				
RAMP D																					
338+50								86		2											
RAMP E																					
521+80 RT								48		20											
518+13 TO 524+68	451																				
B&O RR																					
0+00 TO 4+50	72																				
TEMP COLLECTOR DITCH	774																				
TOTAL	2,023			258	336	120	250	800	74	16	2	11	2	1	1	3	08	22	220	2	
IDENTIFICATION NO.	203			304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	

INCLUDES SPILLWAY PIPES AT SEDIMENT TREATMENT BASINS

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNIGGLE, DENNER, STONE & ASSOC., INC. AND MATZ, CHURCH & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY F.W. TRACED BY F.W. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33 015 BALTO. CITY NO. 1995
		SCALE None	DATE _____ DES. BY T.E.L. CHK. BY J.L.C. SHEET NO. (52) Q-2 or Q-7

SUMMARY OF QUANTITIES

SP 18

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(13)36	0-4	(92) 0-7

STATION	PAVEMENT										SHOULDERS														REMARKS	
	3" Sub-Base Using Crusher Run	4" Sub-Base Using Crusher Run	6" Sub-Base Using Crusher Run	Calcium Chloride For 3" Dense Graded Stabilized Aggregate	Calcium Chloride For 4" Dense Graded Stabilized Aggregate	Calcium Chloride For Variable Dense Graded Stabilized Aggregate	Bituminous Material For Prime Coat	Bituminous Concrete Spac B Using Bond PC-1-6/1/Stone	8" Conventional Reinforced Cement Concrete Pavement	9" Conventional Reinforced Cement Concrete Pavement	8" Continuous Reinforced Cement Concrete Pavement	Terminal Joint	8" Stabilized Shoulder Dense Graded Stabilized Aggregate	4" Stabilized Shoulder Dense Graded Stabilized Aggregate	Variable Depth Stabilized Shoulder Dense Graded Stabilized Aggregate	Bituminous Concrete Shoulder Spac B Bond PC-1-6/1/Stone 10" High Cement Concrete Shoulder	Concrete Barrier	Guard Rail W-Beam	Guard Rail W-Beam Barriercode	Guard Rail W-Beam Annuledge w/ Structures	Remove Existing Guard Rail	6 Chain Link Fence	Terminal Post For 6 Chain Link Fence	Remove Existing Fence		Temporary Edge Detector
	SY	SY	SY	SY	SY	SY	GAL	TON	SY	SY	SY	LF	SY	SY	SY	TON	SY	LF	LF	EA	LF	LF	EA	LF	LF	
PLAN SHEET P-1																										
MAINLINE																										
402+44.49 TO 408+00			81	920	767	767	276						920	767	767		153	302	920							
402+44.67 TO 408+00			1647	640	701	701	252						840	701	701		140	357	841							
APPROACH SLABS			360																							
RAMP A																										
22+00 TO 27+59.10			735	450	334	334	138						450	334	334		77	467	335							
A/B GORE AREA			35					2																		
APPROACH SLAB			67																							
ACCESS ROAD																										
STA 14+25 TO 20+69			2160																							
RAMP E																										
504+6076 TO 510+50			212	540	46	46	102						540	46	46		50	568	1060							
APPROACH SLAB			30																							
PLAN SHEET P-2																										
MAINLINE																										
108+00 TO 114+00	1261	1261	676	702	641	641	238						702	641	641		131	336	820							
APPROACH SLABS			411																							
RAMP A																										
17+00 TO 22+00			588	351	270	270	105						351	270	270		38	285	570							
A/C GORE AREA			6					0																		
APPROACH SLAB			80																							
ACCESS ROAD																										
10+00 TO 14+05			1646																							
RAMP C																										
207+00 TO 208+50			430																							
RAMP E																										
511+50 TO 515+70			64	40	36	36	12						40	36	36		7	18	64							
D/E GORE AREA			31					2																		
APPROACH SLAB			80																							
RAMP H																										
RAMP H TAPER			445	210	156	156	66																			
H/M GORE AREA			5																							
PLAN SHEET P-3																										
MAINLINE																										
414+00 TO 414+50	750	750		282	228	228	85						282	228	228		48	120	270							
RAMP C																										
201+50 TO 207+00			2166	533	40	40	160						533	40	40		88	564	1012							
A/C GORE AREA																										
RAMP E																										
518+70 TO 523+835			2175	475	326	326	143						475	326	326		70	484	508							
E/D GORE AREA																										
E/EX B GORE AREA			135																							
RAMP H																										
7+25 TO 8+231			237	103	92	92	31						103	92	92		17	44	58							
H/M GORE AREA			65																							
TOTAL	2011	2011	17287	5335	4437	4437	1668	26					476	11383	1020		72	5855	4437	4437						
IDENTIFICATION NO.	501	502	503	504	505	506	508	509					511	512	513		515	601	602	603						

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	LYONELL, DENNER, STONE & ASSOC., INC. AND MATZ, CHURCH & ASSOC., INC. CONSULTING ENGINEERS 343 N. CALVERT STREET BALTIMORE, MARYLAND 21202	8 INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & C RAILROAD	DRAWN BY: F.W. TRACED BY: E.W. F.A.P. NO. I-95-4(13)36 S.R.C. NO. BC 248-33-815 BALTO. CITY NO. 1995
		SCALE: _____ DATE: _____	CHK. BY: J.L.C. SHEET NO. (92) 0-4 OF 0-7

SUMMARY OF QUANTITIES

3713

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	E-95-4(36)36	Q-5	(92)

STATION	UTILITIES						REMARKS
	HAND BOX FOR TRAFFIC DEVICES	ONE WAY DUCT	3" EXTRA HEAVY GALVANIZED STEEL PIPE & FITTINGS	DUCT MARKERS	REMOVE & SALVAGE EXISTING LIGHTING STANDARD		
PLAN SHEET P-1	EA	LF	LF	EA	EA		
MAINLINE							
402+50 RT & LT	3	40					
404+25		68		2			
406+47 (70' LT)	1						
406+80 RT		80					
406+80 LT		80					
406+80 B	1						
407+20 (70' RT)	1						
RAMP 'E'							
804+00 RT & LT		40		2			
RAMP 'F'							
614+87 RT & LT		50		2			
PLAN SHEET P-2							
MAINLINE							
411+08 (70' LT)	1						
411+40 B	1						
411+40 LT		80					
411+40 RT		80					
411+70 (80' RT)	1						
413+40 (LT)		68		2			
PLAN SHEET P-3							
RAMP 'C'							
203+50 (RT & LT)		64		2			
RAMP 'E'							
520+95 (70' RT)							
522+50 (RT & LT)		62	44	2			
TOTAL	5	822	44	12	1		
IDENTIFICATION NO.	801	802	803	804	805		

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KIMBLE, MENDER, STONE & ASSOC., INC. AND MATT, CHURCH & ASSOC., INC. CONSULTING ENGINEERS 381 N. CALVERT STREET BALTIMORE, MARYLAND 21207	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY F.W. TRACED BY E.W. F.A.P. NO. E-95-4(36)36 S.R.C. NO. BC 246-33-815 BALTO. CITY NO. 1995
		SCALE: NONE	DES. BY TEL CHK. BY JLC SHEET NO. (92) Q-5 of 27

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	Q-6	(92) Q-7

IDENT NO.	PAY ITEMS	UNIT	BALTO CITY QUANT.	SRC. QUANT.	CONT. QUANT.	PROP QUANT.	FINAL QUANT.
PRELIMINARY ITEMS							
101	CLEARING & GRUBBING	L5	LUMP SUM			LUMP SUM	
102	ENGINEER'S FACILITY - FO-3'	L5	LUMP SUM			LUMP SUM	
103	MAINTENANCE OF TRAFFIC	L5	LUMP SUM			LUMP SUM	
104	CONSTRUCTION STAKEOUT	L5	LUMP SUM			LUMP SUM	
105	MOBILIZATION	L5	LUMP SUM			LUMP SUM	
106	ON THE JOB TRAINING	HR	3,000			3,000	
GRADING ITEMS							
20	CLASS 1 EXCAVATION	CY	21,481			21,500	
202	CLASS 1A EXCAVATION	CY			3500		
203	CLASS 2 EXCAVATION	CY	2,528			2,600	
204	BORROW EXCAVATION	CY	754,000	100,000		854,000	
205	CONTINGENT BORROW EXCAVATION	CY			85,000		
206	SELECT BORROW EXCAVATION	CY	20,100	4,400		24,500	
207	CONTINGENT SELECT BORROW	CY			3,000		
208	TEST PIT EXCAVATION	CY			10		
209	DUMP REMOVAL	L5	LUMP SUM (80%)	LUMP SUM (20%)		LUMP SUM	
210	CONTINGENT DUMP REMOVAL	CY			73,000		
DRAINAGE ITEMS							
301	CLASS 3 EXCAVATION FOR INCIDENTAL CONSTRUCTION	CY			50		
302	SELECTED BACKFILL USING NO. 6 AGGREGATE	CY			1500		
303	SELECTED BACKFILL USING CR-6	CY			1500		
304	24" RC PIPE CLASS 5	LF	258			258	
305	30" RC PIPE CLASS 5	LF	336			336	
306	18" BCCM PIPE, TYPE A, #12 GA	LF	20			20	
307	24" BCCM PIPE, TYPE A, #12 GA	LF	250			250	
308	18" BCCM PIPE, TYPE C #14 GA	LF	800			800	
309	24" BCCM PIPE, TYPE C #14 GA	LF	74			74	
310	30" ELBOW FOR 18" BCCM PIPE, TYPE C, #14 GA	EA	16			16	
311	30" ELBOW FOR 24" BCCM PIPE, TYPE C, #14 GA	EA	2			2	
312	STD METAL END SECTION FOR 18" CM PIPE	EA	11			11	
313	STD METAL END SECTION FOR 24" CM PIPE	EA	2			2	
314	STD TYPE C ENDWALL FOR 24" PIPE	EA	1			1	
315	STD TYPE C ENDWALL FOR 30" PIPE	EA	1			1	
316	SPECIAL TYPE K INLET NON-TRAFFIC AREAS, MIN. DEPTH	EA	3			3	
317	SPECIAL TYPE K INLET NON-TRAFFIC AREAS, VERT. DEPTH	EA	08			1	
318	STD TYPE 5 INLET DOUBLE GRATE TANDEM, MIN. DEPTH	EA	22			22	
319	STD TYPE 5 INLET DOUBLE GRATE TANDEM, VERT. DEPTH	LF	22			22	
320	ADJUST EXISTING INLET	EA	2			2	
321	DROP MANHOLE, 90" COVER, MIN. DEPTH	EA	1			1	
322	DROP MANHOLE, VERTICAL DEPTH	LF	15.87			16	
323	CLASS P1 CONCRETE FOR MISC STRUCTURES	CY			25		
324	CLASS B CONCRETE FOR MISC STRUCTURES	CY	55			55	
325	ORDINARY BRICK MASONRY FOR MISC STRUCTURES	CY			5		
326	6" PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN	LF	3821			3850	
327	6" PERFORATED CIRCULAR PIPE UNDERDRAIN	LF			400		
328	8" PERFORATED CIRCULAR PIPE UNDERDRAIN	LF			400		
329	6" CIRCULAR PIPE UNDERDRAIN OUTLETS	LF	228			250	
330	8" CIRCULAR PIPE UNDERDRAIN OUTLETS	LF			30		
331	AGGREGATE BACKFILL FOR UNDERDRAINS	CY			50		
332	3" CONCRETE GUTTER	SV	925			930	
333	CLASS 1 MEDIUM RIPRAP	SV	83			90	
334	TEMPORARY SLOPE DRAINS	LF	400			400	

IDENT NO.	PAY ITEMS	UNIT	BALTO CITY QUANT.	SRC. QUANT.	CONT. QUANT.	PROP QUANT.	FINAL QUANT.
STRUCTURE ITEMS							
401	CLASS 3 EXCAVATION FOR STRUCTURES	CY	880			880	
402	SUB FOUNDATION	LF	50			50	
403	14" DIAMETER CAST-IN-PLACE CONCRETE PILES FURNISHED AND DRIVEN	LF	4,180	3,440		7,620	
404	14" DIAMETER CAST-IN-PLACE CONCRETE TEST PILES FURNISHED AND DRIVEN	LF	700	70		770	
405	14" DIAMETER CAST-IN-PLACE CONCRETE PILE SPLICES	EA	530	40		570	
406	CLASS C CONCRETE SUB FOUNDATION	CY	25			25	
407	FOOTING CONCRETE - RAMP A	CY	170			170	
408	FOOTING CONCRETE - RAMP D	CY		85		85	
409	FOOTING CONCRETE - RAMP E	CY		85		85	
410	FOOTING CONCRETE - RAMP E	CY	340			340	
411	FOOTING CONCRETE - I-95 B&O RR	CY	690			690	
42	SUB-STRUCTURE CONCRETE FOR ABUTMENT - RAMP A	L5	LUMP SUM			LUMP SUM	
43	SUB-STRUCTURE CONCRETE FOR ABUTMENT - RAMP E	L5	LUMP SUM			LUMP SUM	
44	SUB-STRUCTURE CONCRETE FOR ABUTMENT - I-95 B&O RR	L5	LUMP SUM			LUMP SUM	
45	SUB-STRUCTURE CONCRETE FOR PIERS - RAMP A	L5	LUMP SUM			LUMP SUM	
46	SUB-STRUCTURE CONCRETE FOR PIERS - RAMP E	L5	LUMP SUM			LUMP SUM	
47	SUB-STRUCTURE CONCRETE FOR PIERS - I-95 B&O RR	L5	LUMP SUM			LUMP SUM	
48	CLASS B CONCRETE RAMPS C&D	CY		35		35	
49	SUPERSTRUCTURE CONCRETE FOR ABUTMENT - RAMP A	L5	LUMP SUM			LUMP SUM	
420	SUPERSTRUCTURE CONCRETE FOR ABUTMENT - RAMP E	L5	LUMP SUM			LUMP SUM	
421	SUPERSTRUCTURE CONCRETE FOR ABUTMENT - I-95 B&O	L5	LUMP SUM			LUMP SUM	
422	SUPERSTRUCTURE CONCRETE FOR BRIDGE - RAMP A	L5	LUMP SUM			LUMP SUM	
423	SUPERSTRUCTURE CONCRETE FOR BRIDGE - RAMP E	L5	LUMP SUM			LUMP SUM	
424	SUPERSTRUCTURE CONCRETE FOR BRIDGE - I-95 B&O	L5	LUMP SUM			LUMP SUM	
425	CONTINGENT CONCRETE FOR BRIDGES	CY			25		
426	FABRICATED STRUCTURAL STEEL (A-588) FOR BRIDGE	L5	LUMP SUM			LUMP SUM	
427	FABRICATED STRUCTURAL STEEL (A-588) FOR BRIDGE	L5	LUMP SUM			LUMP SUM	
428	FABRICATED STRUCTURAL STEEL (A-588) FOR BRIDGE	L5	LUMP SUM			LUMP SUM	
429	4" CONCRETE SLOPE PROTECTION	SV	2,910			2,910	
430	APPROACH SLAB CONCRETE - RAMP A	SV	165			165	
431	APPROACH SLAB CONCRETE - RAMP E	SV	160			160	
432	APPROACH SLAB CONCRETE - I-95 B&O RR	SV	771			775	
433	ELECTRICAL CONDUIT SYSTEM FOR STRUCTURE	L5	LUMP SUM			LUMP SUM	

REVISIONS <input type="checkbox"/> Addendum No. 4, Aug 9, 97 Grading items Revision	CONSULTANT KNOFFLE, BECKER, STONE & ASSOC., INC. AND MATZ, CARLOS & 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 NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY: E.W. TRACED BY: E.W. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC246-33-815 BALTO CITY NO. 1995
		DES. BY: T.E.L. CHK. BY: J.L.C.	SHEET NO. 1921 Q-6 of Q-7

SUMMARY OF QUANTITIES

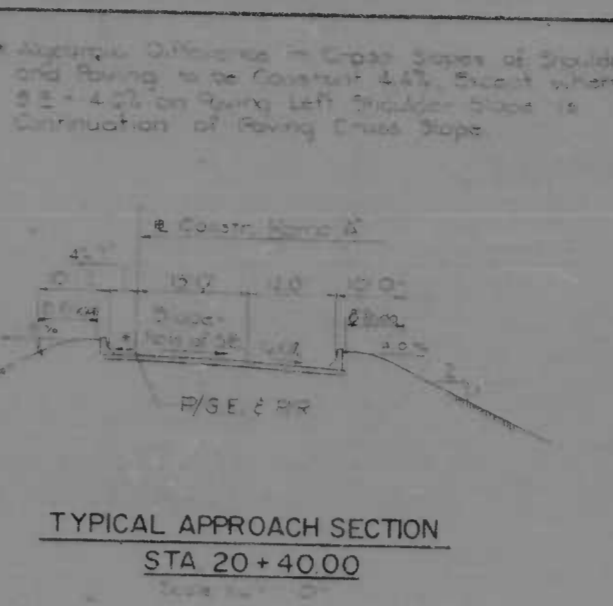
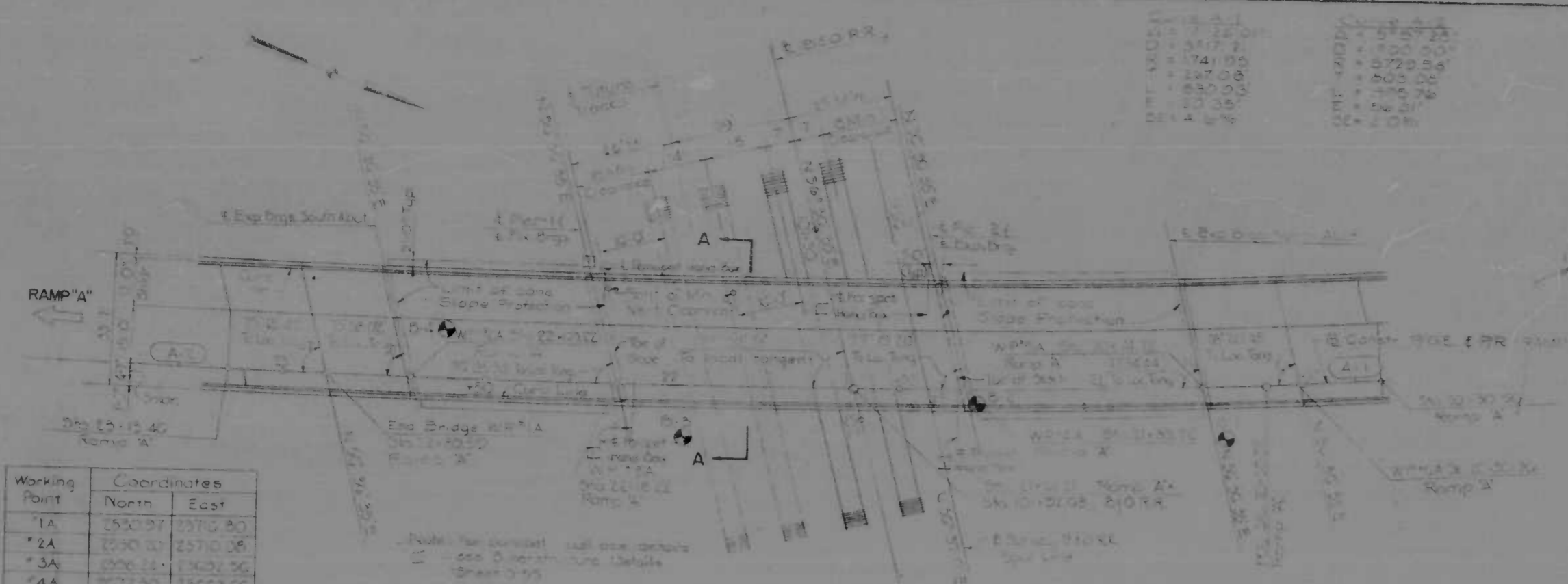
FEB 1995
MD. 2-95-4156138

IDENT. NO.	PAY ITEMS	UNIT	BALTO. CITY QUANT.	S.R.C. QUANT.	CONT. QUANT.	PROP. QUANT.	FINAL QUANT.
PAVING ITEMS							
50	3" SUB BASE USING CRUSHER RUN	SY	20			2020	
502	4" SUB BASE USING CRUSHER RUN	SY	20			2020	
503	6" SUB BASE USING CRUSHER RUN	SY	1728			1900	
504	CALCIUM CHLORIDE FOR 3" D.G.S.A.	SY	5555			5560	
505	CALCIUM CHLORIDE FOR 4" D.G.S.A.	SY	4437			4440	
506	CALCIUM CHLORIDE FOR VARIABLE D.G.S.A.	SY	4437			4440	
507	CRUSHER RUN AGGREGATE FOR MAINTENANCE OF TRAFFIC	TON			50	50	
508	BITUMINOUS MATERIAL FOR PRIME COAT	GA.	1068			670	
509	BITUMINOUS CONC. SPEC. B USING SAND PC-1-G1/STONE	TON	26			30	
510	BITUMINOUS CONC. SPEC. B FOR MAINT. OF TRAFFIC. STONE SLAG	TON			25	25	
511	8" REINFORCED CEMENT CONCRETE PAVEMENT CLASS P	SY	476			480	
512	9" REINFORCED CEMENT CONCRETE PAVEMENT CLASS P	SY	11385			11400	
513	8" CONTINUOUS REINFORCED CEMENT CONCRETE PAVEMENT CLASS P	SY	1020			1030	
514	CALCIUM CHLORIDE	TON			10	10	
515	TERMINAL JOINT	LF	72			73	
SHOULDER ITEMS							
601	3' STABILIZED SHOULDER D.G.S.A.	SY	3555			3560	
602	4' STABILIZED SHOULDER D.G.S.A.	SY	4437			4440	
603	VARIABLE DEPTH STABILIZED SHOULDER D.G.S.A.	SY	4437			4440	
604	BIT. CONC. SHOULDER SPEC. B BAND PC-1-G1/STONE	TON	925			930	
605	10" PLAIN CEMENT CONCRETE SHOULDER	SY	3947			3950	
606	CONC. BARRIER CLASS A1 CONC.	LF	808			810	
607	GUARD RAIL W/ BEAM	LF	375			375	
608	GUARD RAIL W/ BEAM BARRICADE	LF	40			40	
609	GUARD RAIL W/ BEAM ANCHORAGE STRUCTURES	EA					
610	REMOVE EXISTING GUARD RAIL	LF	370			370	
611	6' CHAIN LINK FENCE	LF	3065			4000	
612	TERMINAL POSTS FOR 6' CHAIN LINK FENCE	EA	30			30	
613	REMOVE EXISTING FENCE	LF	500			500	
614	TEMPORARY EDGE DELINEATOR	LF	659			700	
LANDSCAPING ITEMS							
701	PLACING SALV. TOPSOIL 2" DEPTH	SY	10,600			10,600	
702	TOPSOIL FURNISHED & PLACED 2" DEPTH	SY	150,498			151,000	
703	TEMPORARY SEEDING	SY	4,000			4,000	
704	SEEDING AND MULCHING	SY	139,861			140,000	
705	SEEDING AND MULCHING FLAT AREAS	SY	20,924			21,000	
706	SOLID SODDING	SY	3,180			3,200	
707	SOIL MIX	CY	555			560	

IDENT. NO.	PAY ITEMS	UNIT	BALTO. CITY QUANT.	S.R.C. QUANT.	CONT. QUANT.	PROP. QUANT.	FINAL QUANT.
UTILITY ITEMS							
801	HAND BOXES FOR TRAFFIC DEVICES	EA	5			5	
802	ONE WAY DUCT	LF	322			330	
803	3" EXTRA HEAVY GALVANIZED STEEL PIPE & FITTING	LF	44			45	
804	DUCT MARKERS	EA	2			2	
805	REMOVE & SALVAGE EXISTING LIGHTING STANDARD	EA				1	
806	CLASS C CONCRETE FOR UTILITIES	CY			27	27	

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 MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY: F.W. TRACED BY: F.W. F.A.P. NO. 1-95-4136138 S.R.C. NO. BC 246-33-615 BALTO. CITY NO. 1995
		SCALE: _____	DATE: _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	S-1	92

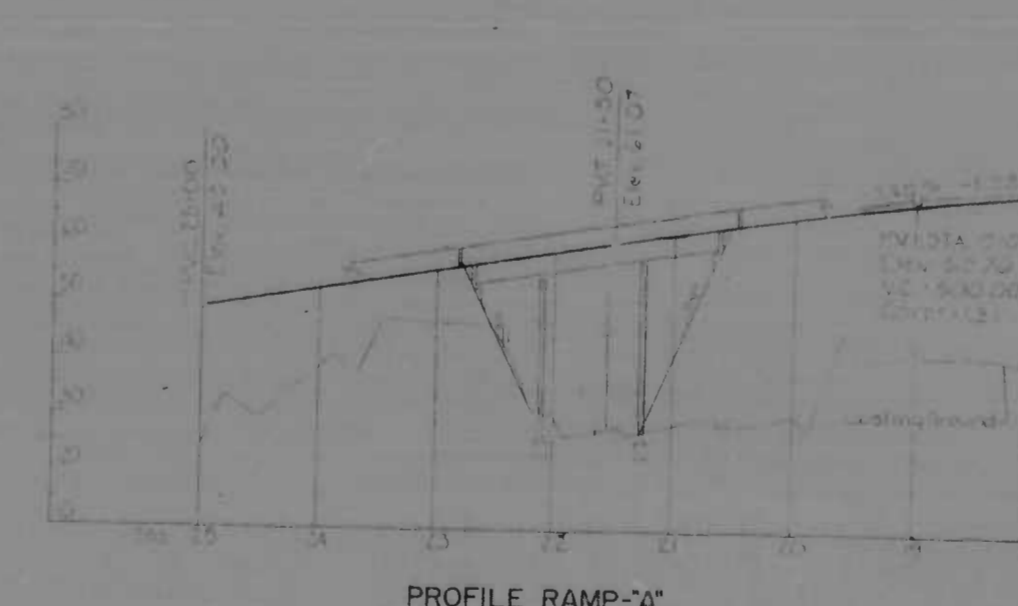
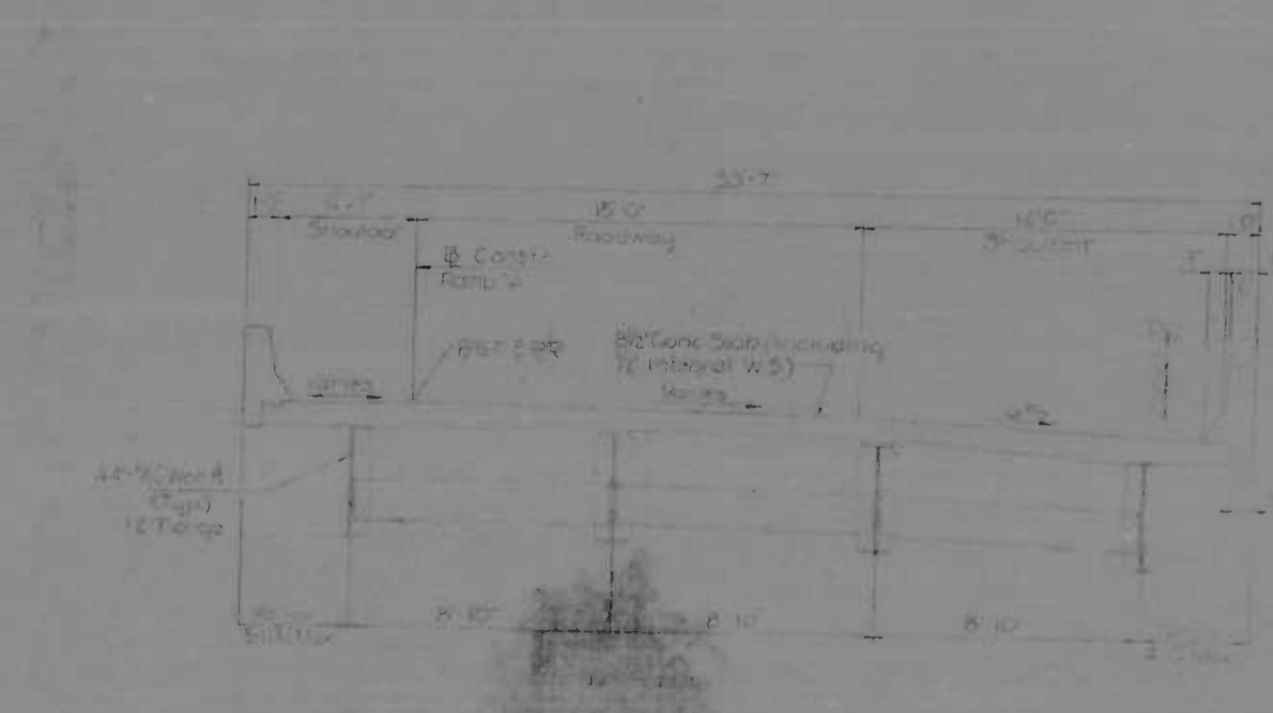
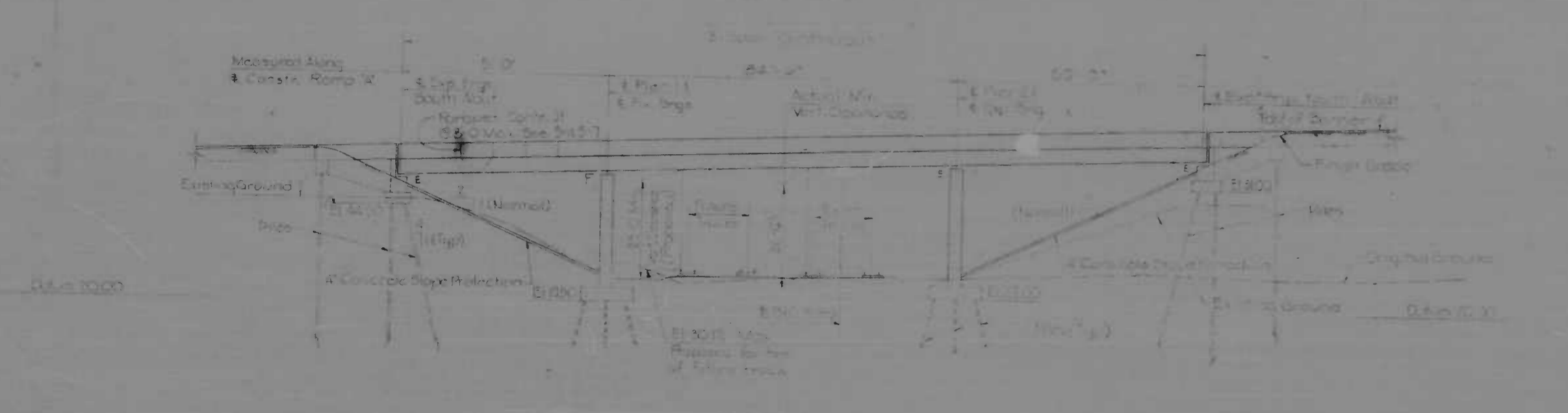
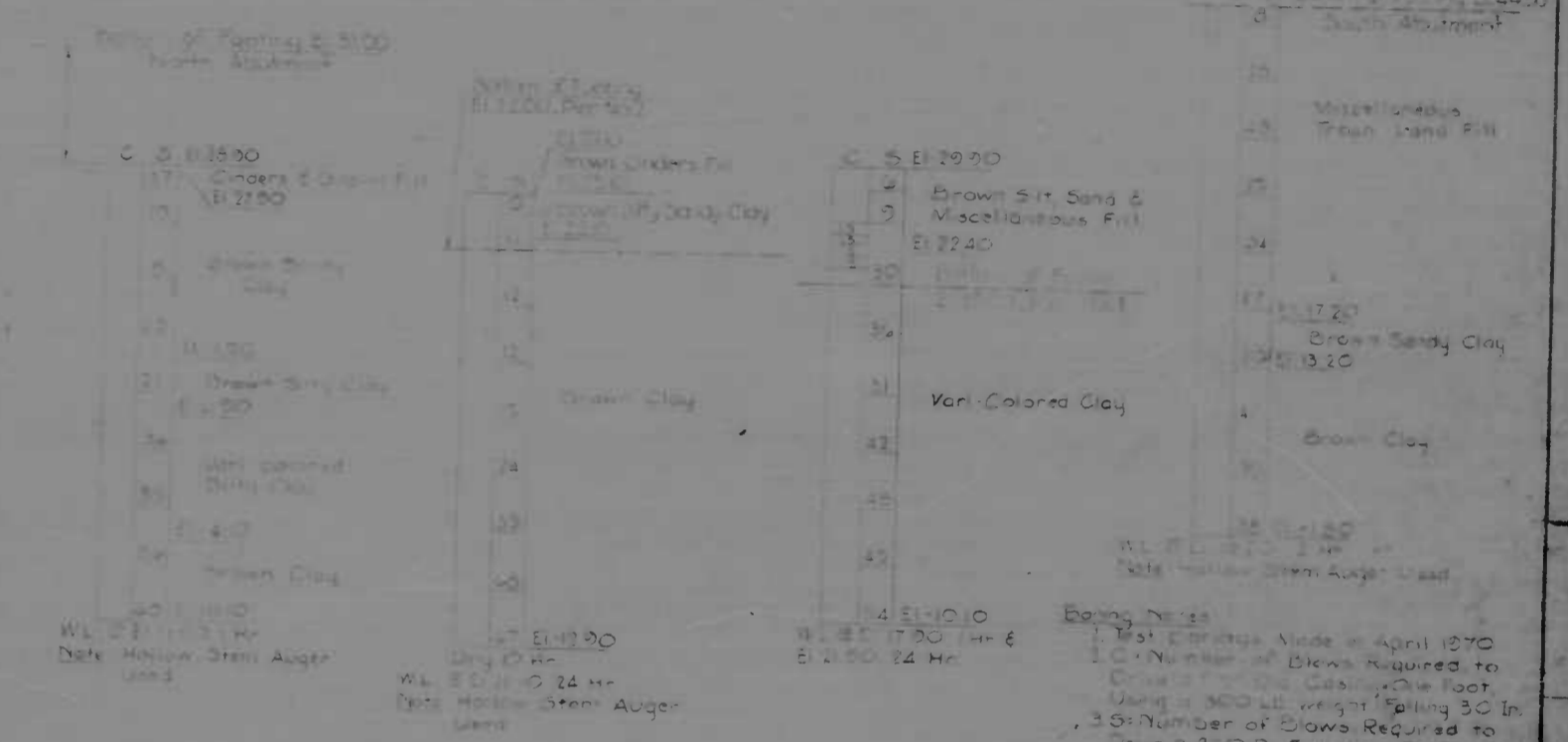


BORING NO. 1
Sta. 2+24 70' Lt.
B&O RR Spur Line

BORING NO. 2
Sta. 2+02 11' Lt.
B&O RR Spur Line

BORING NO. 3
Sta. 1+95 60' Rt.
B&O RR Spur Line

BORING NO. 4
Sta. 1+56 111' Rt. B&O RR Spur Line
C.S. E146.70



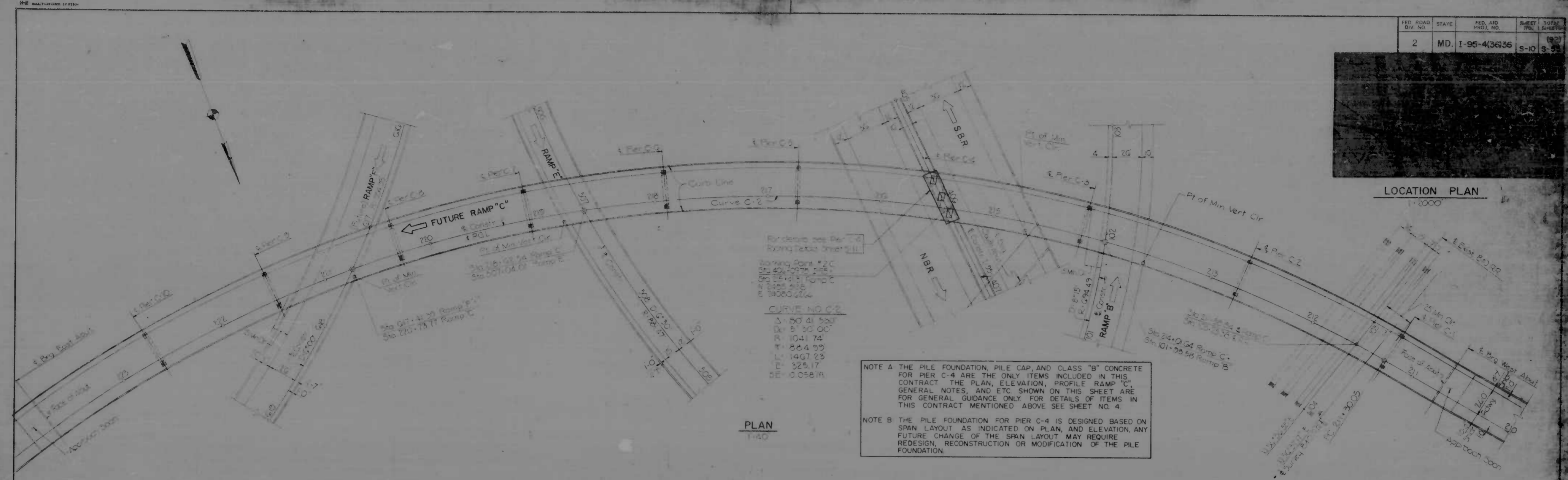
- GENERAL NOTES**
- SPECIFICATIONS: C.P.C. Specifications and Details to Specifications for Highway Construction, AASHTO Standard Specifications for Highway Construction, 1973, and 1977 Technical Guide for Design for Reinforced Concrete Bridge Structures, except that the concrete in bridge deck and supports shall be steel beams has a $f_c = 4000$ psi.
 - LOADING: 1200 lb/ft² or 2000 lb/ft² whichever is greater, which includes the weight of the concrete and reinforcement.
 - CONCRETE: Class A-1 Concrete shall have a minimum compressive strength of 5000 psi at 28 days. Use 5000 psi concrete.
 - CHAMFER: All vertical corners of concrete shall be chamfered 30° and shall be finished as required, unless indicated by the following notations for plain 90° fillet chamfer.
 - REINFORCING STEEL: Reinforcing steel shall conform to ASTM designation A615 Grade 60. All splices shall be lapped a minimum of 36 bar diameters unless otherwise noted. Maximum lap length shall be 24 inches, unless otherwise noted.
 - STRUCTURAL STEEL: Structural steel shall be ASTM A36, unless otherwise noted.
 - REINFORCEMENT: All bars are individual reinforcement bars. The size of bars shall be as indicated on drawings. All bars shall be placed as indicated on drawings.

REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
	ZIMMEL, BERGER, STONE & ASSOC., INC. RATTI, STONE & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	DEPARTMENT OF PUBLIC WORKS I-95 WINDLASS-MORAVIA INTERCHANGE RAMP "A" OVER B&O RR GENERAL PLAN AND ELEVATION	INTERSTATE DIVISION FOR BALTIMORE CITY
		SCALE: As Shown	DATE
		DRAWN BY: J.R.W. TRACED BY: J.R.W.	DES. BY: H.J.H. CHK. BY: F.F.M.
		F.A.P. NO.: 195-4(36)36 S.P.C. NO.: BC 246-33-B15	SHEET NO.: (92) S-1 of S-55
		BALTO. CITY NO.: 1995	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SUBSET	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-10	5-55



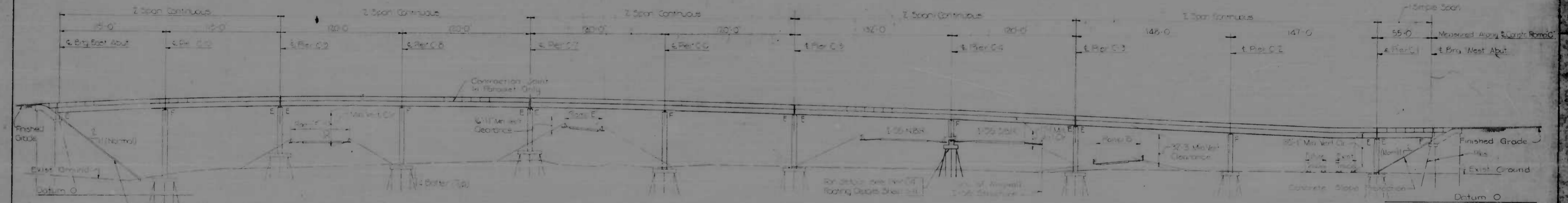
LOCATION PLAN
1"=200'



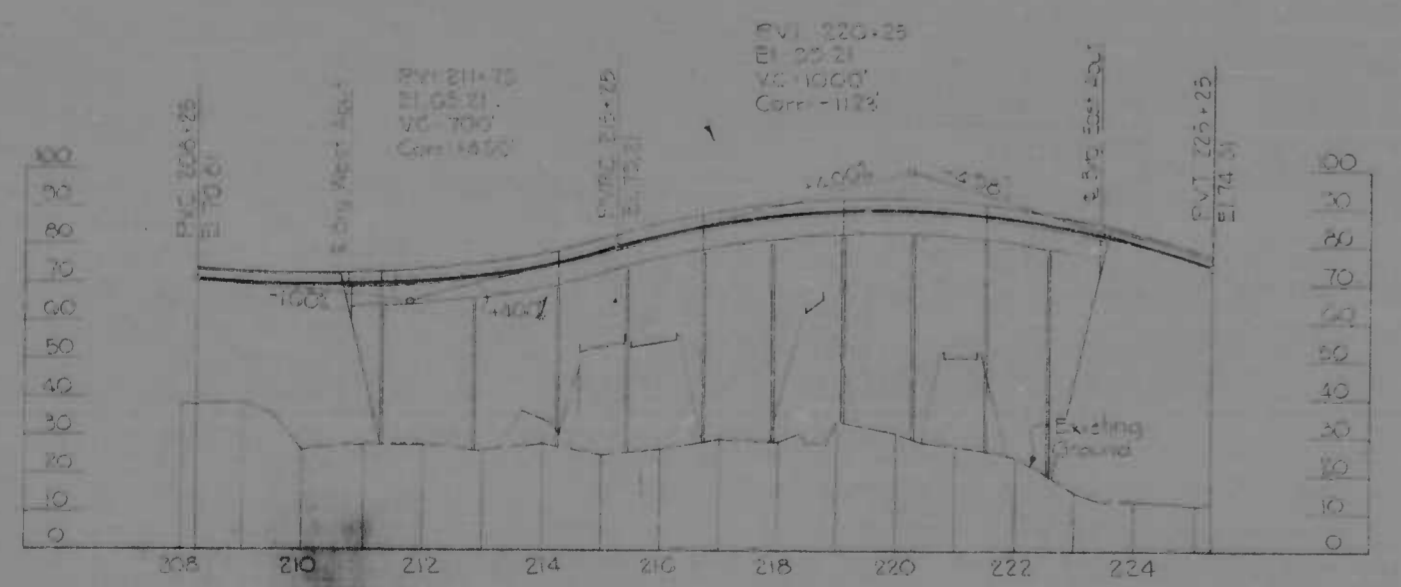
NOTE A THE PILE FOUNDATION, PILE CAP, AND CLASS "B" CONCRETE FOR PIER C-4 ARE THE ONLY ITEMS INCLUDED IN THIS CONTRACT. THE PLAN, ELEVATION, PROFILE RAMP "C", GENERAL NOTES, AND ETC SHOWN ON THIS SHEET ARE FOR GENERAL GUIDANCE ONLY. FOR DETAILS OF ITEMS IN THIS CONTRACT MENTIONED ABOVE SEE SHEET NO. 4.

NOTE B THE PILE FOUNDATION FOR PIER C-4 IS DESIGNED BASED ON SPAN LAYOUT AS INDICATED ON PLAN, AND ELEVATION. ANY FUTURE CHANGE OF THE SPAN LAYOUT MAY REQUIRE REDESIGN, RECONSTRUCTION OR MODIFICATION OF THE PILE FOUNDATION.

PLAN
1"=40'



ELEVATION
1"=40'



PROFILE RAMP "C"
Plan: 1"=200'
Vert: 1"=50'

GENERAL NOTES

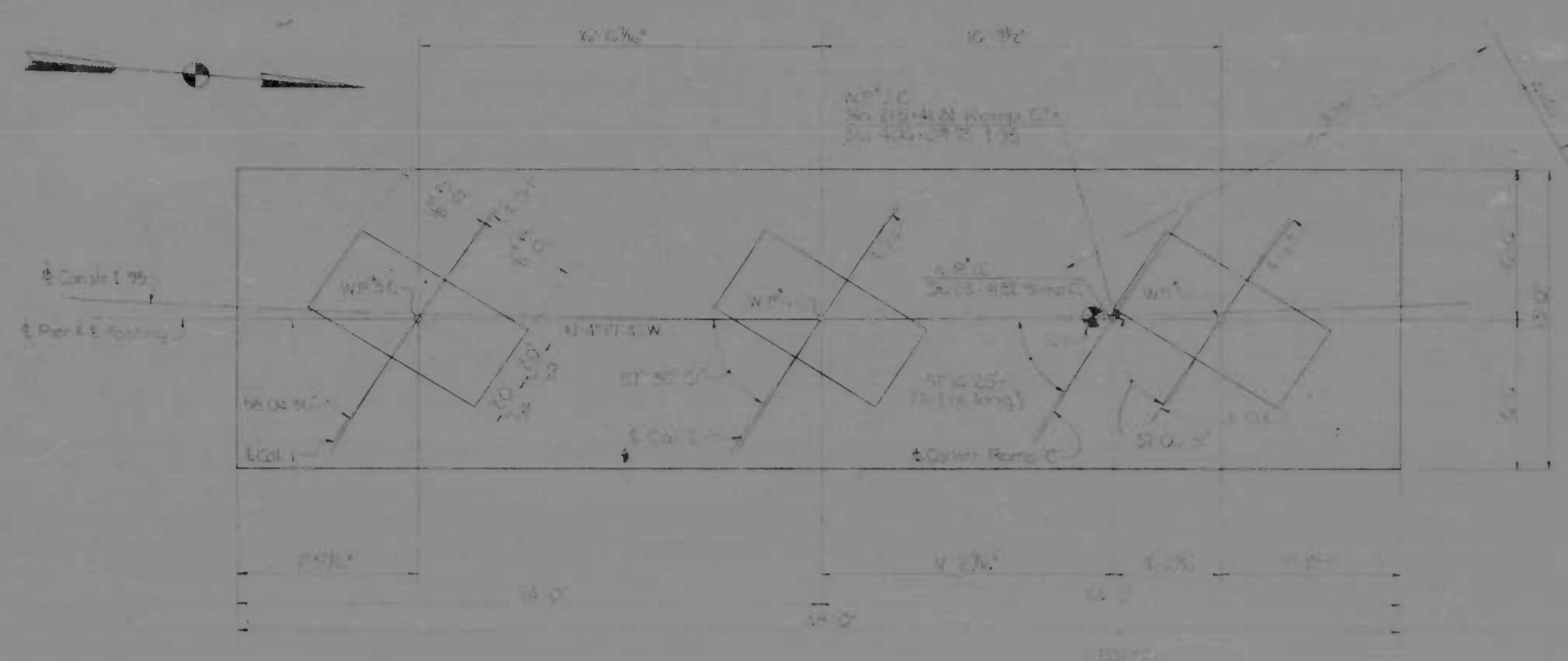
- SPECIFICATIONS: Maryland S&C Specifications and Details to specifications dated March 1968 and special provisions for materials and construction. A.A.S.H.O. Standard Specifications for Highway Bridges dated 1960 and 1970 interim specifications for design. For reinforced concrete design, f_c 1200 psi, except that the concrete in bridge deck slabs supported by steel beams has an f_c 1050 psi.
- LOADING: 1-5 20/44 or 2-24,000 lb. axles spaced 4' apart, whichever governs, with provisions for a future 2' wearing surface.
- CONCRETE: Class 40 Concrete shall have minimum compressive strength of 3000 psi at 28 Days.
- CHAMFER: All exposed edges of concrete shall be chamfered 3/4" x 3/4" with milled chamfer strips, except where indicated by the following notation on the plans: Do Not Chamfer.
- REINFORCING STEEL: Reinforcing steel shall conform to A.S.T.M. Designation A-615 Grade 40. All splices shall be lapped a minimum of 74 bar diameters, unless otherwise noted. Minimum cover for any bar shall be 2" unless otherwise noted.
- STRUCTURAL STEEL: Structural steel shall be A.S.T.M. designation A-588.
- FOUNDATION: Recommendations are given on foundation sheet.
- One coat of paint epoxy coating shall be applied to all pier caps, pedestals, abutment seats, and abutment crosswalls.

REFERENCES
Per Old Road Details
Transverse Section and Profile
Substructure Details

SHEET NO.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	INGERSLE, BENDER, STONE & ASSOC., INC. 400 MATZ, CHUBB & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21208	1-95 WINDLASS MORAVIA INTERCHANGE RAMP "C" OVER RAMP "B" I-95 AND B & O R.R. GENERAL PLAN AND ELEVATION	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO.: I-95-4(36)36 S.P.C. NO.: BC 246-33-B15 BALTO. CITY NO.: 1995
		SCALE: As Shown	DATE: July 10, 1995
			DES. BY: J.J.M. CHK. BY: F.F.M. SHEET NO.: 192 S-10 of 5-55

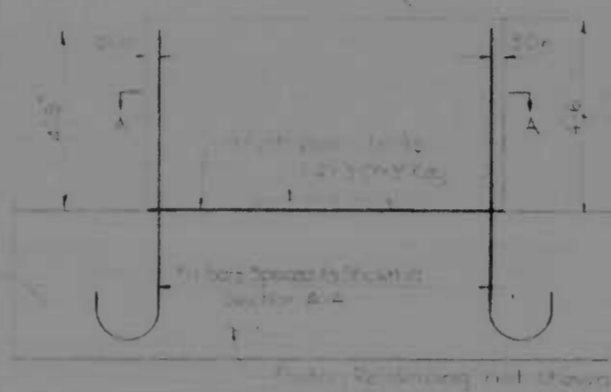
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	S-11	(92) S-55



PLAN



SECTION A-A

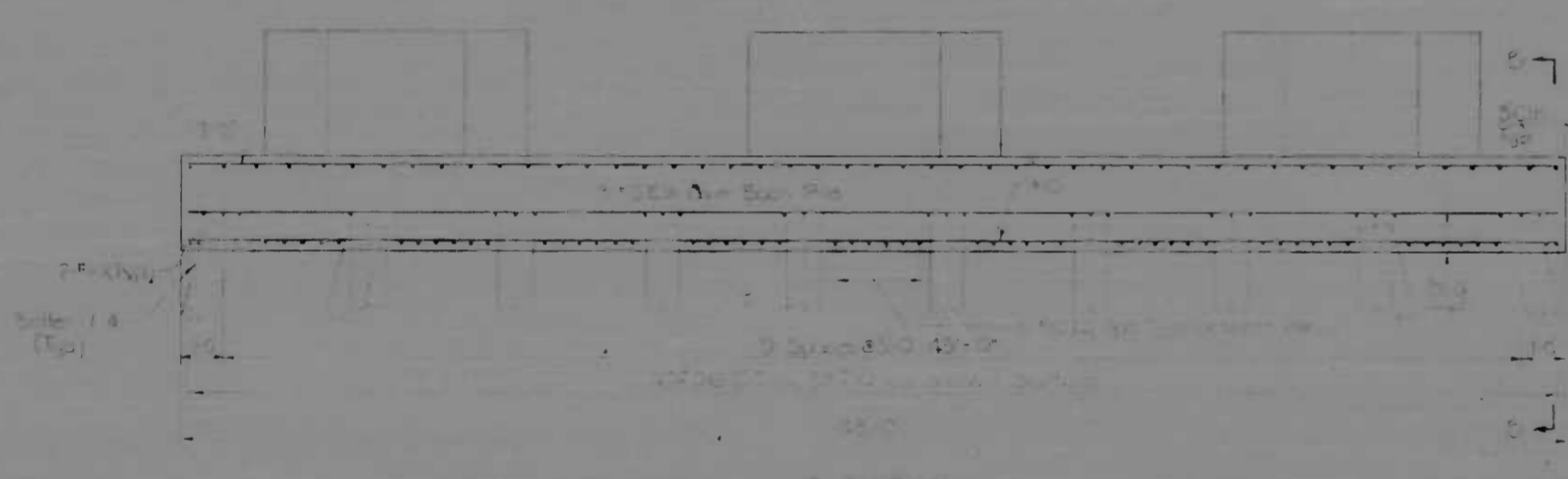


TYPICAL COLUMN SECTION

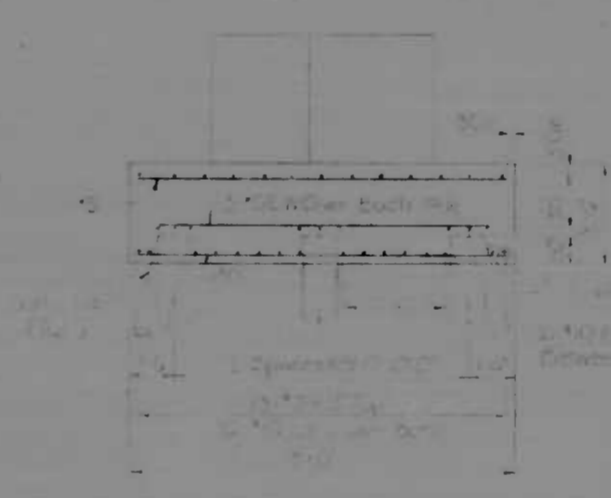
BORING NO. C-1
STA 4+44 379' RT. R. SURVEY
B & O R.R.



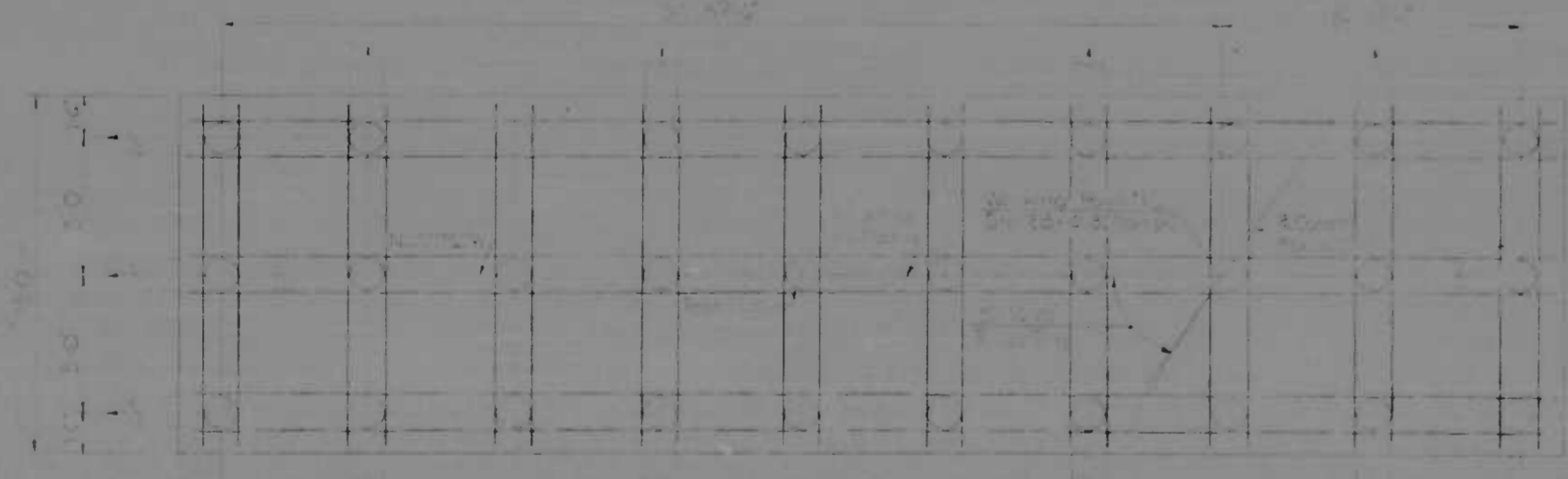
Notes:
1. Soil borings made on Jan. 15, 1971.
2. Number of blows reported to drive a 6" x 4" casing six foot using a 300 lb. weight falling 30 inches.
3. Number of blows required to drive a 2" O.D. Sampling Spoon and soil using a 140 lb. weight falling 30 inches.



ELEVATION



SECTION B-B



FOOTING PLAN

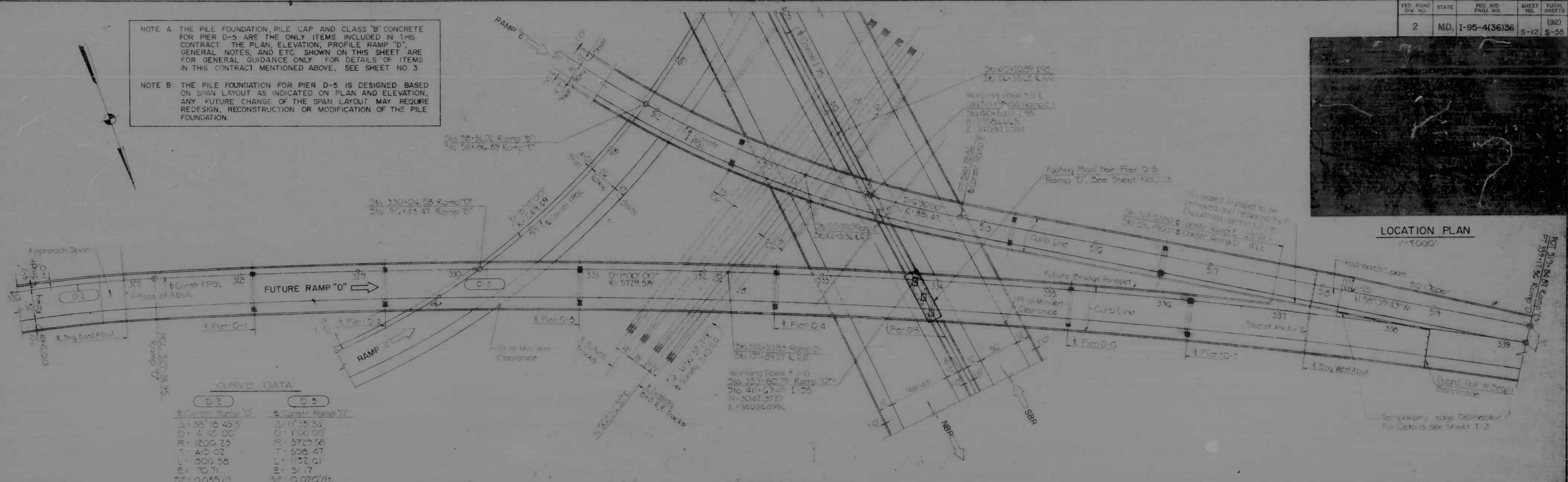
WELL POINT	COORDINATES	
	N	E
W-10	7260.5000	7406.60154
W-11	6985.5138	7406.62220
W-12	6590.8000	7406.65010
W-13	6470.5600	7406.6565
W-14	6680.5164	7406.6500

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
		KROERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHUBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	
		1-95 WINDLASS MORAVIA INTERCHANGE RAMP "C" OVER RAMPS "B" "E" "F", I-95, AND B & O R.R. PIER C-4 FOOTING DETAILS	
		SCALE: As Shown	DATE: 01/15/71
		DRAWN BY: J.R.W. TRACED BY: J.R.W.	DES. BY: A.E. CHK. BY: F.F.M.
		F.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: BC 246 33 815	SHEET NO.: (92) S-11 OF S-55
		BALTO. CITY NO. 1795	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	8-12	8-55

NOTE A THE PILE FOUNDATION, PILE CAP AND CLASS "B" CONCRETE FOR PIER D-5 ARE THE ONLY ITEMS INCLUDED IN THIS CONTRACT. THE PLAN, ELEVATION, PROFILE RAMP "D", GENERAL NOTES, AND ETC. SHOWN ON THIS SHEET ARE FOR GENERAL GUIDANCE ONLY. FOR DETAILS OF ITEMS IN THIS CONTRACT MENTIONED ABOVE, SEE SHEET NO. 3

NOTE B THE PILE FOUNDATION FOR PIER D-5 IS DESIGNED BASED ON SPAN LAYOUT AS INDICATED ON PLAN AND ELEVATION. ANY FUTURE CHANGE OF THE SPAN LAYOUT MAY REQUIRE REDESIGN, RECONSTRUCTION OR MODIFICATION OF THE PILE FOUNDATION.

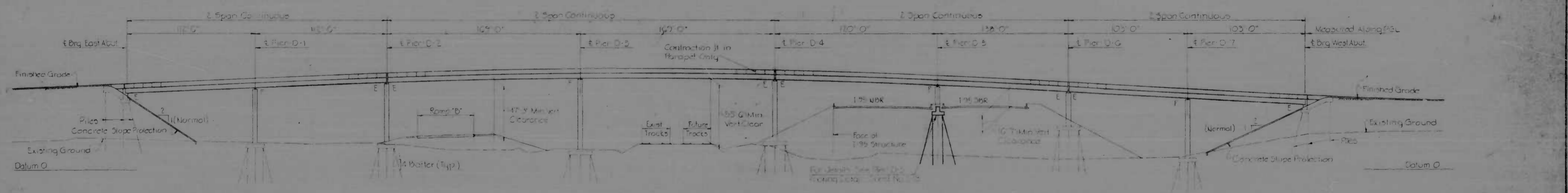


CURVE DATA

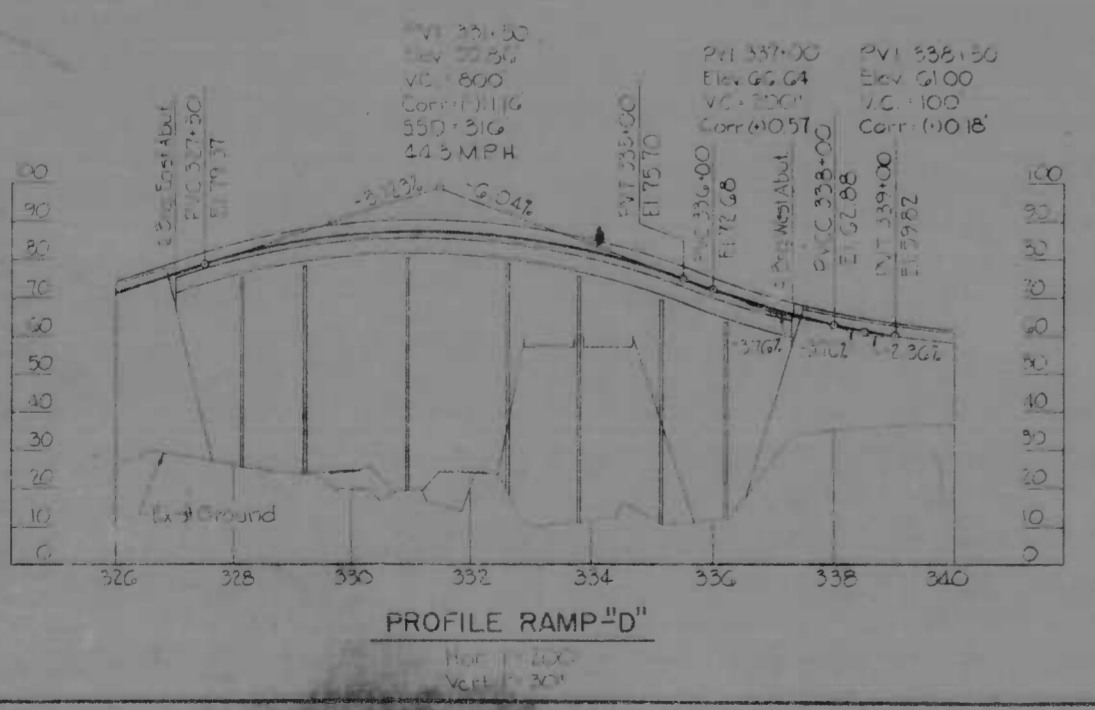
D-2		D-5	
Station	325+00	Station	331+00
Radius	1845.5'	Radius	1000.00'
Delta	44.00°	Delta	100.00°
PC	325+00	PC	331+00
PT	325+45.5'	PT	332+00
PI	325+22.75'	PI	331+50.00'
EA	4.00'	EA	5.00'
EB	50.58'	EB	112.61'
EC	70.71'	EC	31.17'
SE	0.055'/ft	SE	0.020'/ft



PLAN
1"=40'



ELEVATION
1"=40'

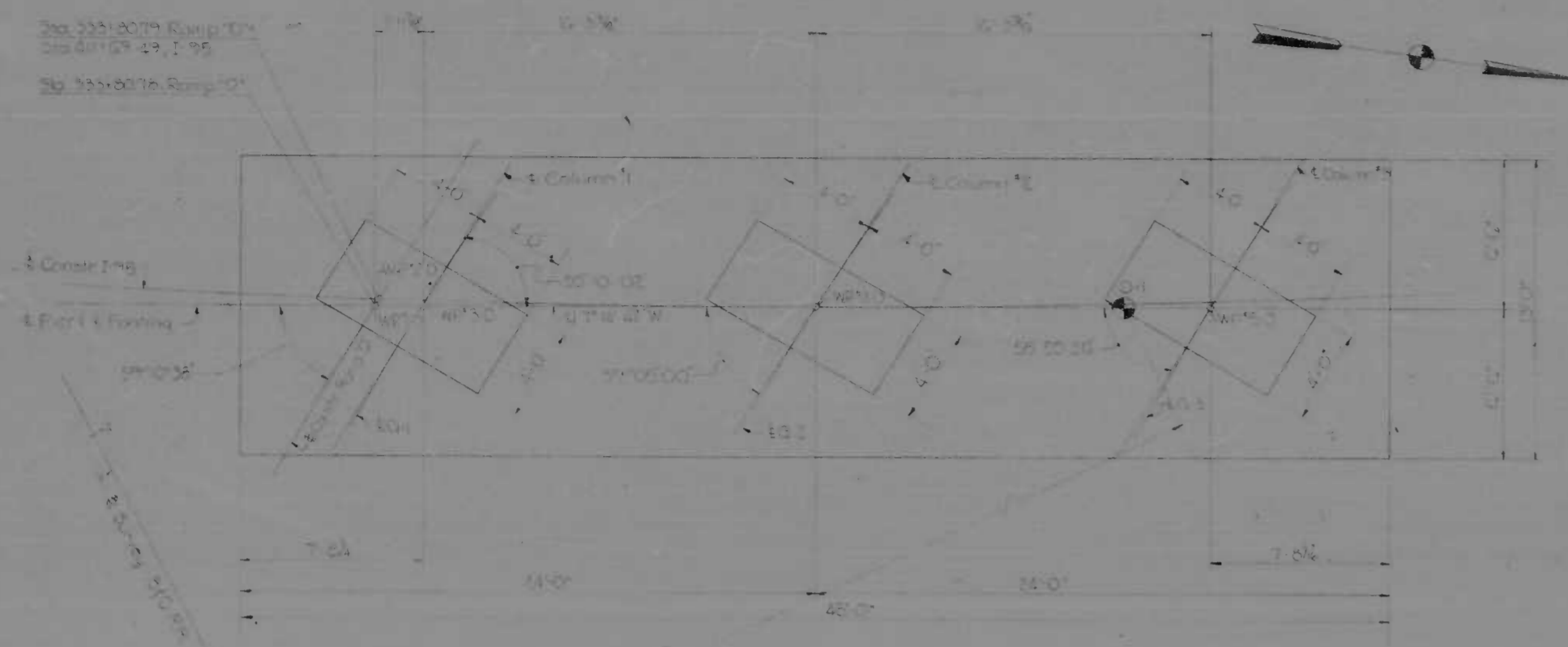


GENERAL NOTES

1. SPECIFICATIONS: Maryland SBC Specifications and Amendments dated March 1968 and special provisions for materials and construction. AASHTO Standard Specifications for Highway Bridges dated 1969 and 1970 interim specifications for design. For reinforced concrete design, 1200 psi except that the concrete in bridge deck slabs supported by steel beams has an f_c of 1050 psi.
2. LOADS: HS 20-44 or 2-24,600 lb axles spaced 4' apart whichever governs, with provisions for a future 2" wearing surface.
3. CONCRETE: Class "A-1" Concrete shall have a minimum compressive strength of 3,000 psi at 28 days.
4. CHAMFER: All exposed edges of concrete shall be chamfered $\frac{3}{4}$ " x $\frac{3}{4}$ " with milled chamfer strips except where indicated by the following notation on the plans, "No Chamfer".
5. REINFORCING STEEL: Reinforcing steel shall conform to ASTM Designation A 615 Grade 40. All splices shall be lapped a minimum of 24 bar diameters unless otherwise noted. Minimum cover for bars shall be 2" unless otherwise noted.
6. STRUCTURAL STEEL: Structural steel shall be ASTM designation A 588.
7. FOUNDATION: Recommended items are given on foundation sheet.
8. One coat of prime epoxy coating shall be applied to all pier caps, pedestals, abutment seats, and abutment backwalls.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KINDLER, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS MORAVIA INTERCHANGE RAMP "D" OVER RAMP "B", I-95 AND B & O RR GENERAL PLAN AND ELEVATION	DRAWN BY: J.R.W. TRACED BY: J.R.W. DES. BY: J.J.M. CHK. BY: F.F.M. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 245-33-815 BALTO. CITY NO.: 1995

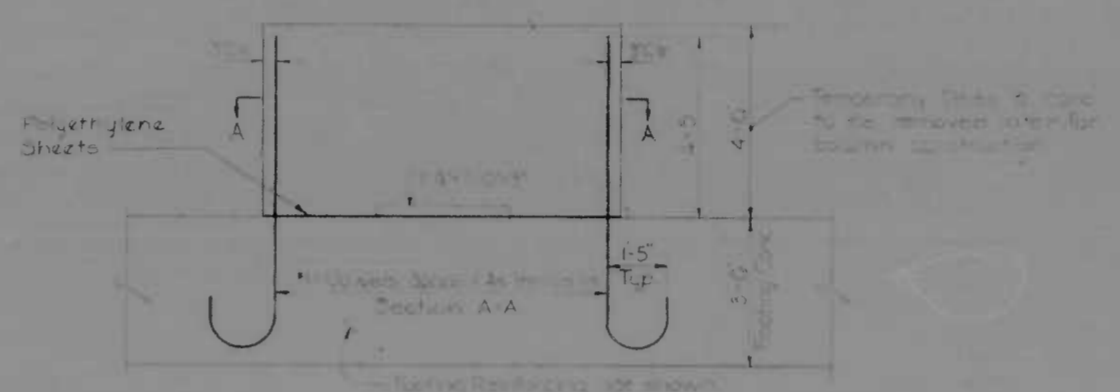
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	S-13	S-56



PLAN
Scale 1/4" = 1'-0"



SECTION A-A
Scale 3/4" = 1'-0"

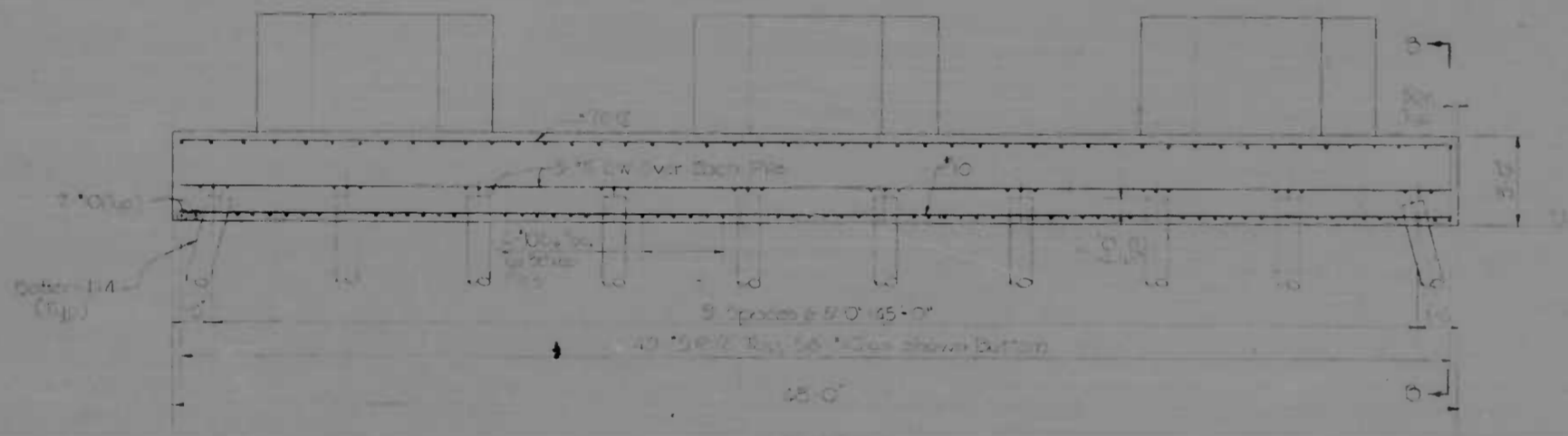


TYPICAL COLUMN SECTION
Scale 3/4" = 1'-0"

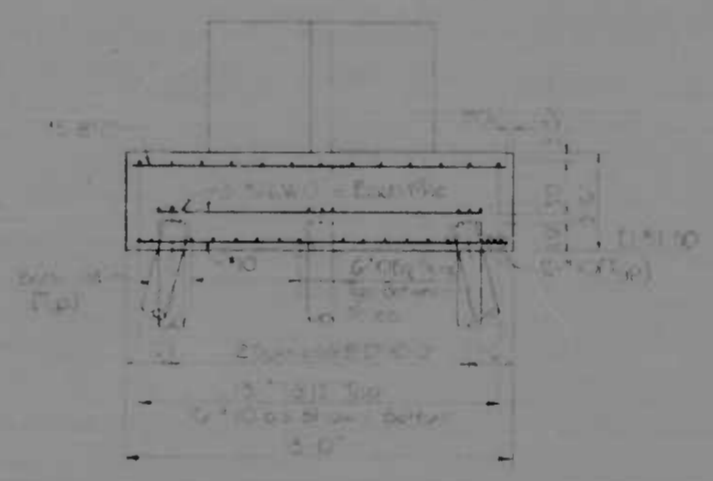
BORING NO D-1
STA 7+14 143' OF SURVEY
B & O R R



- Notes:
1. Soil Boring made in Jan 22, 1971
 2. (C) Number of Blows required to drive 6" dia. casing one foot using a 300 lb weight falling 30 inches
 3. (S) Number of blows required to drive 3" I.D. Sampling Device one foot, using a 140 lb weight falling 30 inches



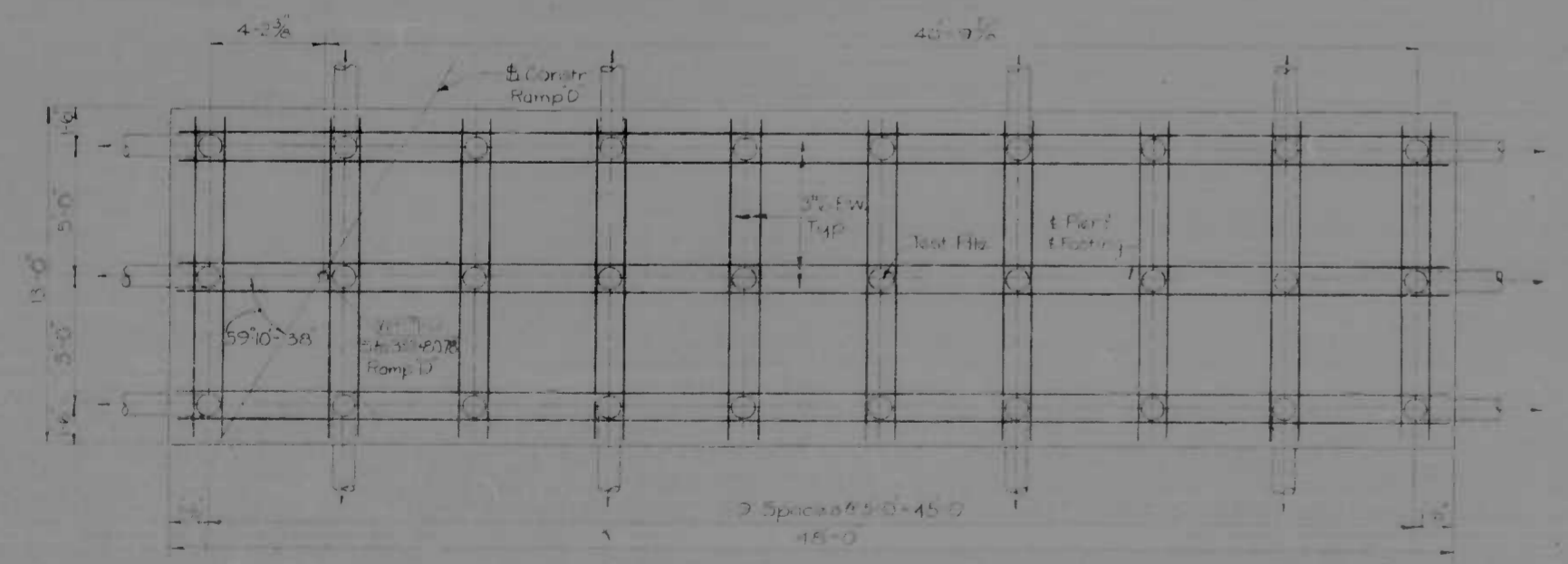
ELEVATION
Scale 1/4" = 1'-0"



SECTION B-B
Scale 3/4" = 1'-0"

- LEGEND:
- Indicates Point Pie
 - Indicates Bore Pie
 - Direction of Bore

Notes:
All piles shall be 14" Monorail grade 5 cast-in-place concrete piles driven to a minimum safe bearing value of 30 tons or to practical refusal.



FOOTING PLAN
Scale 1/4" = 1'-0"

WORKING POINT	EXPLAINED	
	N	E
W 1124	3044 3666	3030 3101
W 1129	3044 3777	3030 3200
W 1130	3044 2995	3030 3242
W 1143	3044 3006	3030 3266
W 1150	3039 3011	3030 3270

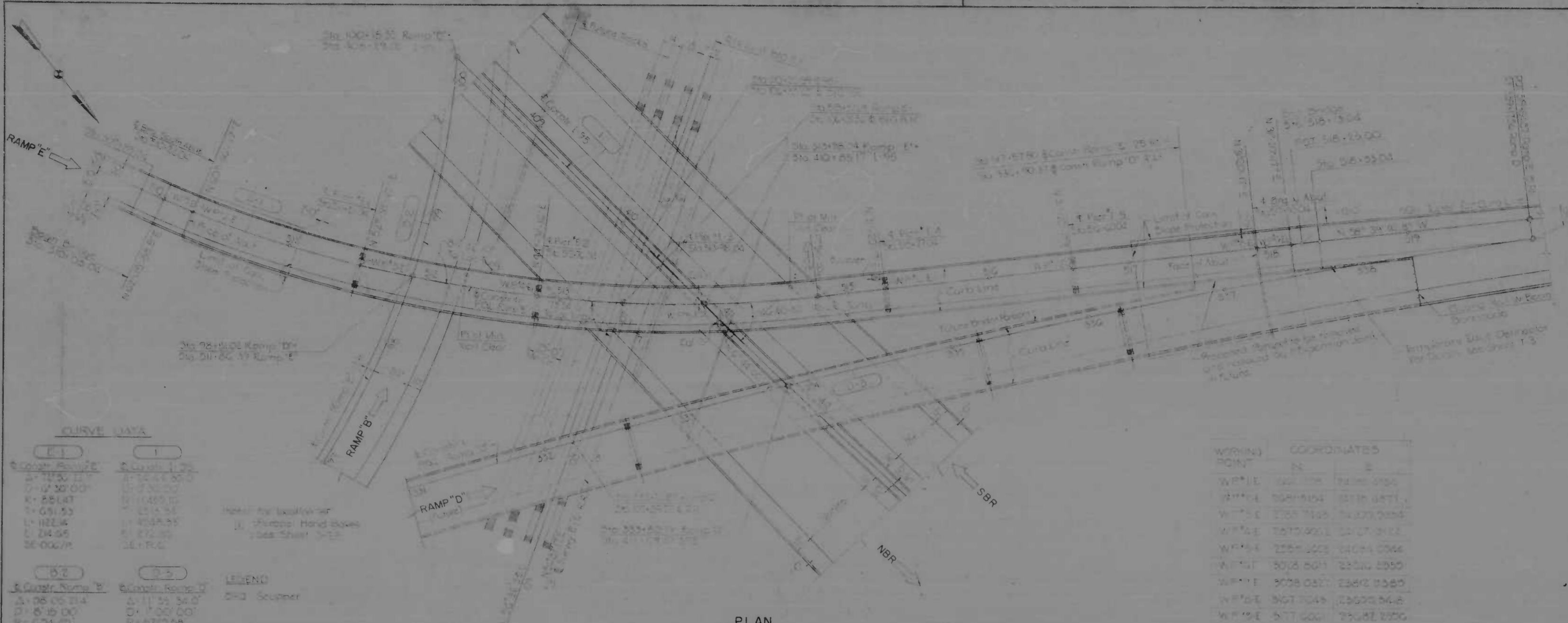
REFERENCES: Boring Log Detail Plan Elevation Substructure Details

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KACERLE, BENDIG, STONE & ASSOC., INC. AND MATZ, CHUBBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS MORAVIA INTERCHANGE RAMP "D" OVER RAMP "B", I-95 AND B & O R R PIER D-5 FOOTING DETAILS	
		SCALE: As Shown	DATE: 1-22-71
		DRAWN BY: J.R.W. TRACED BY: J.R.W.	DES. BY: C.Y.T. CHK. BY: F.F.M.
		F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815 BALTO. CITY NO. 1995	SHEET NO. (32) S-13 OF S-55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	S-14	(52)



LOCATION PLAN
1"=1000'



PLAN
1"=100'

CURVE DATA

Curve Name	Stationing	Radius	Length	Delta	Chord
C-1	1+00.00 to 1+100.00	1000.00	100.00	36.00	100.00
C-2	1+100.00 to 1+200.00	1000.00	100.00	36.00	100.00
C-3	1+200.00 to 1+300.00	1000.00	100.00	36.00	100.00
C-4	1+300.00 to 1+400.00	1000.00	100.00	36.00	100.00
C-5	1+400.00 to 1+500.00	1000.00	100.00	36.00	100.00

LEGEND

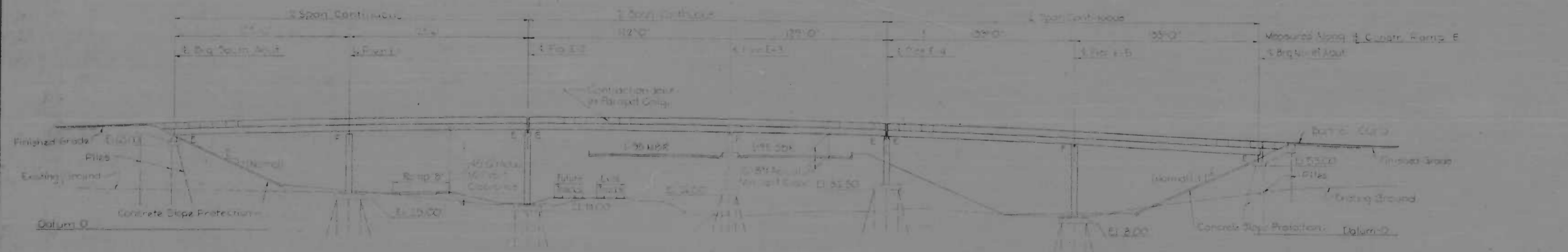
Symbol	Description
Circle with dot	Prop. Scupper
Circle with cross	Prop. Hand Sign
Circle with triangle	Prop. Street Sign

WORKING COORDINATES

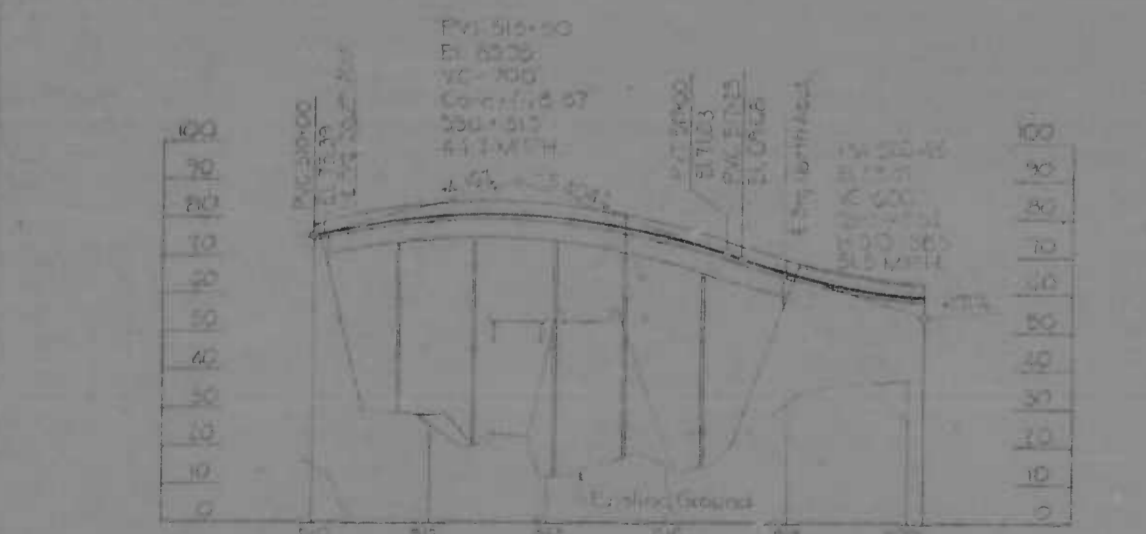
POINT	N	E
WPT 1	1000.000	0.000
WPT 2	1000.000	0.000
WPT 3	1000.000	0.000
WPT 4	1000.000	0.000
WPT 5	1000.000	0.000
WPT 6	1000.000	0.000
WPT 7	1000.000	0.000
WPT 8	1000.000	0.000
WPT 9	1000.000	0.000
WPT 10	1000.000	0.000

REFERENCES

Reference	Sheet No.
Approach Design (Approach Span)	S-10
Abutment	S-11
Approach Span Details	S-12
Plan E-1 and Details	S-13
Plan E-2 and Details	S-14
Plan E-3 and Details	S-15
Plan E-4 and Details	S-16
Plan E-5 and Details	S-17
Plan E-6 and Details	S-18
Plan E-7 and Details	S-19
Plan E-8 and Details	S-20
Plan E-9 and Details	S-21
Plan E-10 and Details	S-22
Plan E-11 and Details	S-23
Plan E-12 and Details	S-24
Plan E-13 and Details	S-25
Plan E-14 and Details	S-26
Plan E-15 and Details	S-27
Plan E-16 and Details	S-28
Plan E-17 and Details	S-29
Plan E-18 and Details	S-30
Plan E-19 and Details	S-31
Plan E-20 and Details	S-32
Plan E-21 and Details	S-33
Plan E-22 and Details	S-34
Plan E-23 and Details	S-35
Plan E-24 and Details	S-36
Plan E-25 and Details	S-37
Plan E-26 and Details	S-38
Plan E-27 and Details	S-39
Plan E-28 and Details	S-40
Plan E-29 and Details	S-41
Plan E-30 and Details	S-42



ELEVATION
1"=10'



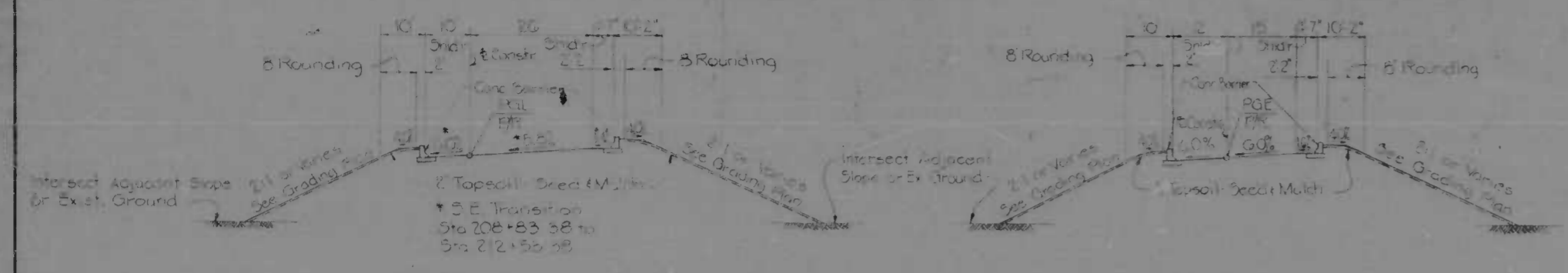
PROFILE RAMP "E"
1"=100'

GENERAL NOTES

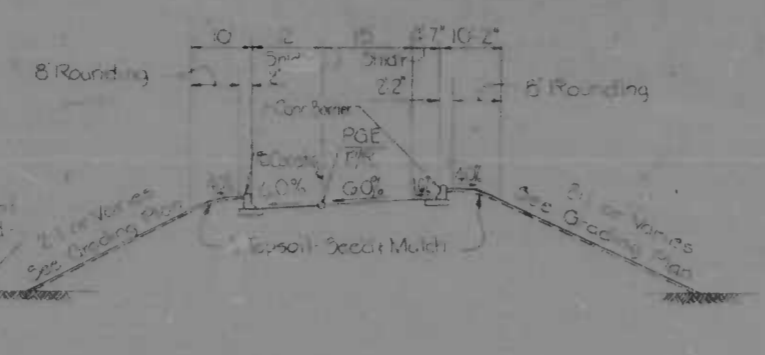
1. SPECIFICATIONS: American AASHTO Specifications and Details for Highway Bridges, 1989 Edition, and special provisions for the project.
2. MATERIALS: All materials shall conform to the specifications listed in the contract documents.
3. CONCRETE: Concrete shall have a minimum compressive strength of 4000 psi at 28 days.
4. CHALK: All exposed surfaces of concrete shall be finished with a 1/4" thick layer of 1/2" diameter chips.
5. REINFORCING STEEL: Reinforcing steel shall conform to ASTM Designation A 615 Grade 60. All lap splices shall be lapped a minimum of 25 diameters unless otherwise specified.
6. STRUCTURAL STEEL: Structural steel shall be ASTM designation A 588.
7. FOUNDATION: Recommendations are given in the contract documents.
8. One copy of these drawings shall be kept on the project site for inspection by the contractor.

REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
	KNORRE, BENDER, STONE & ASSOC., INC. 141 N. CALVERT STREET BALTIMORE, MARYLAND 21202	DEPARTMENT OF PUBLIC WORKS	INTERSTATE DIVISION FOR BALTIMORE CITY
	RATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 141 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95 AND B & O R.R. GENERAL PLAN AND ELEVATION	DRAWN BY: J.R.W. DES BY: J.J.M. TRACED BY: J.R.W. CHK BY: F.F.M.
		F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO.: 1995	SHEET NO.: (52) S-14 OF 5-55

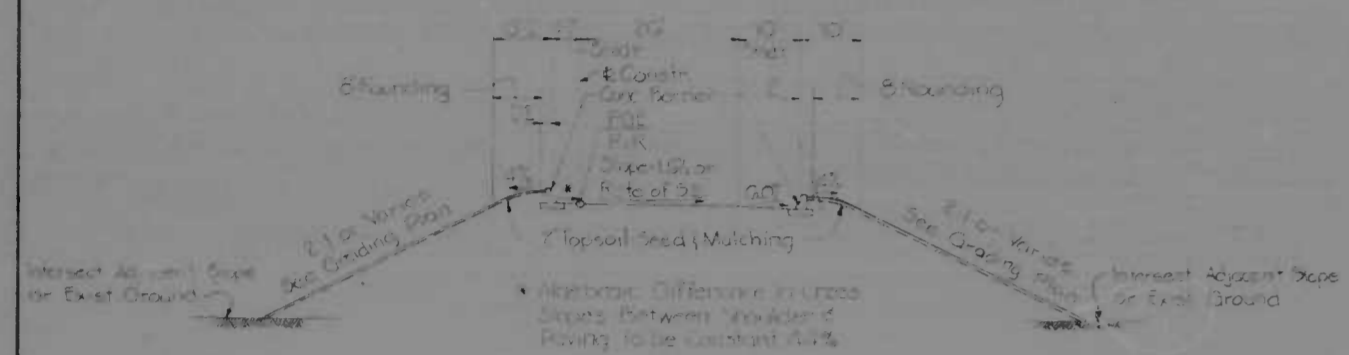
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	9-15	92



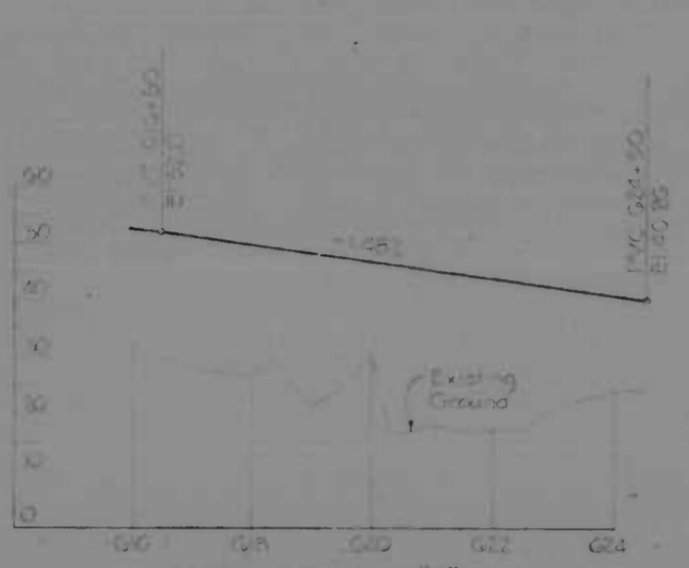
APPROACH SECTION - RAMP "C"
STA 212+53.38 TO STA 224+73.95



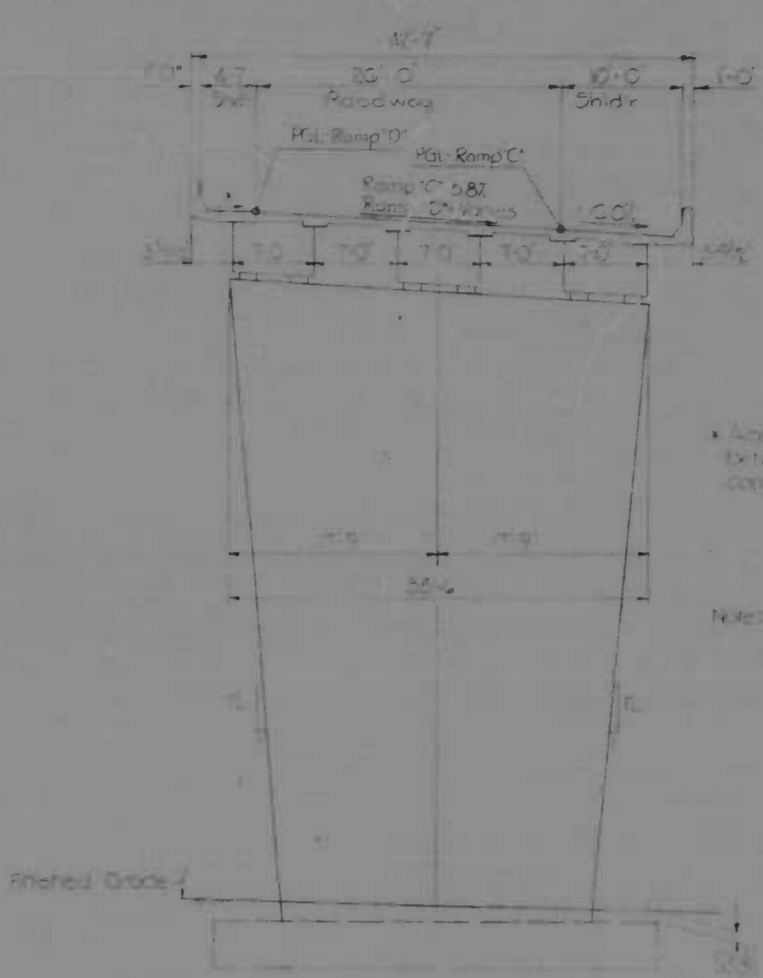
APPROACH SECTION - RAMP "E"



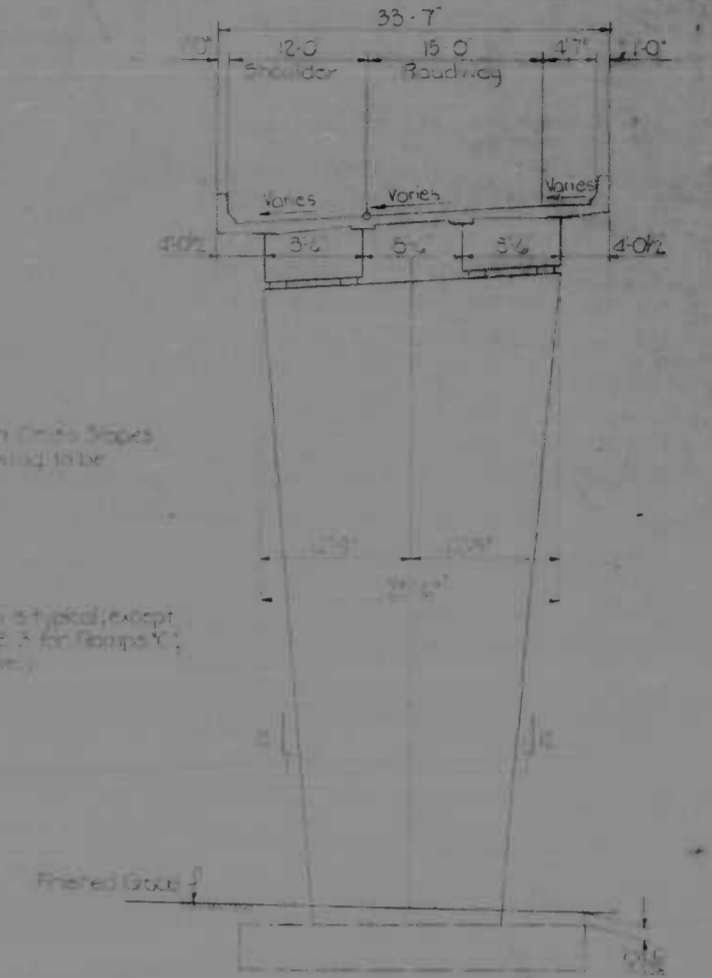
APPROACH SECTION - RAMP "D"
STA 315+84.67 AHEAD



PROFILE - RAMP "F"

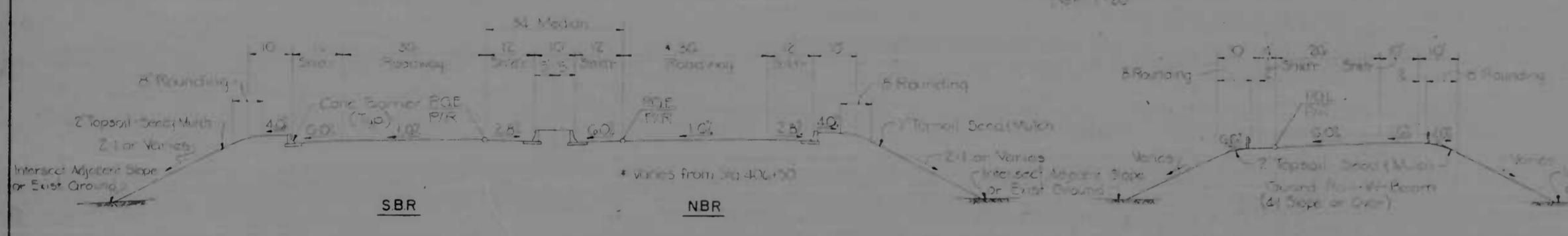


RAMPS "C" & "D"



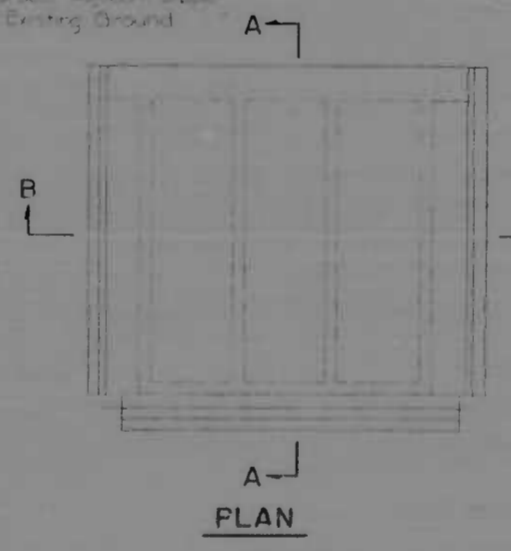
RAMP "E"

TRANSVERSE SECTIONS

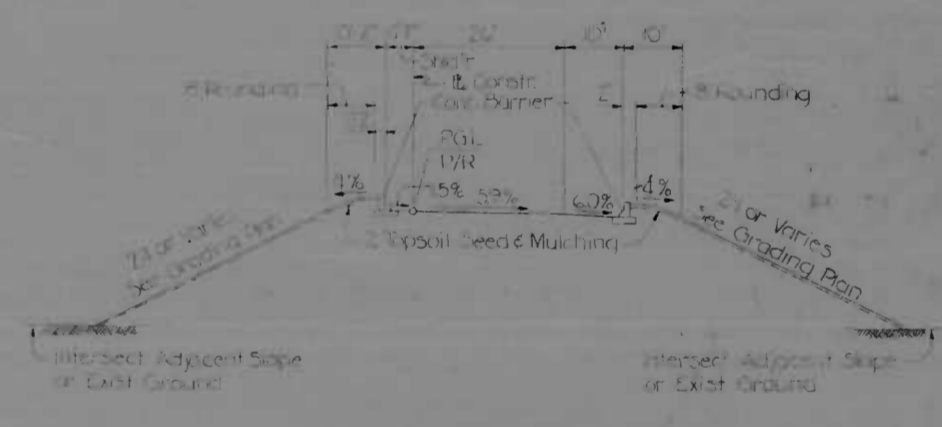


APPROACH SECTION - INTERSTATE ROUTE 95

APPROACH SECTION RAMP "B"
STA 94+66.61 TO STA 105+39.75

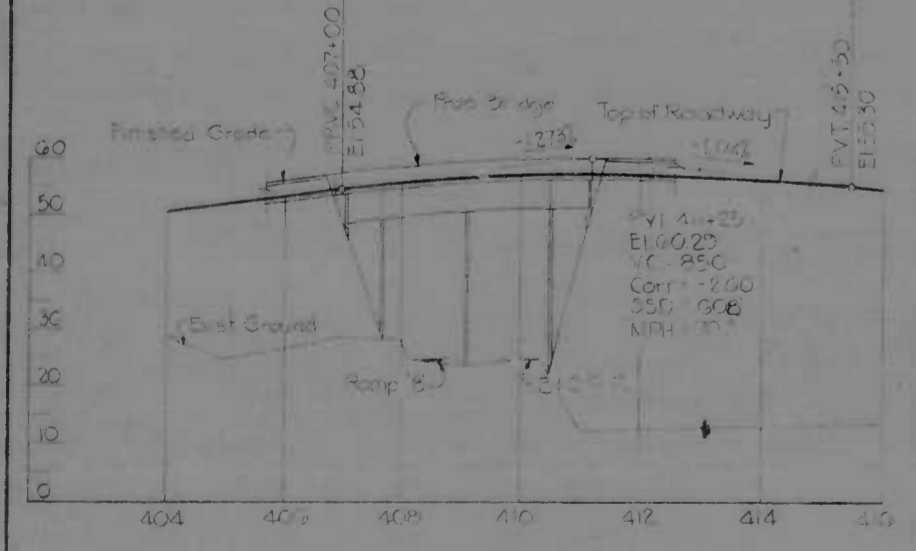


PLAN

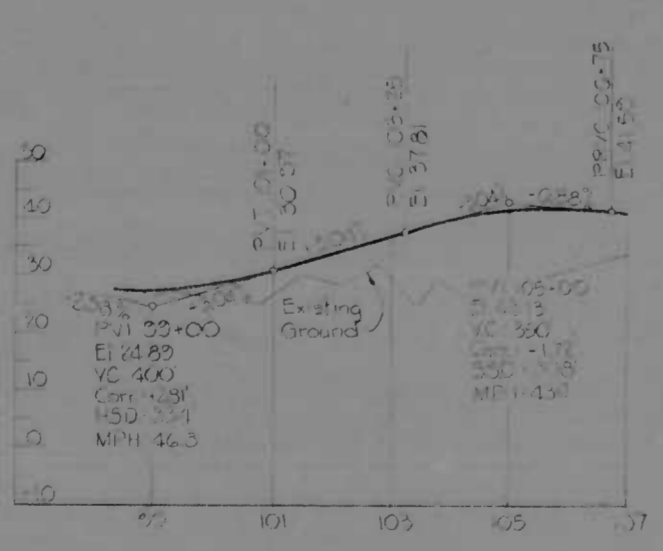


APPROACH SECTION - RAMP "F"
STA 614+42.82 TO STA 620+73.39

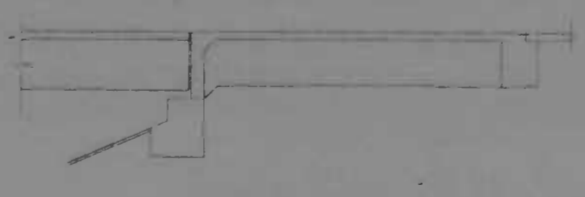
NOTE SECTIONS, DETAILS, PROFILES AND ETC SHOWN ON THIS SHEET APPLY TO I-95 OVER B&O RR AND RAMP "E" PRIMARILY. THEY MAY BE USED FOR GENERAL GUIDANCE ONLY ON RAMPS "C" AND "D". THE ONLY ITEMS INCLUDED IN THIS CONTRACT FOR RAMPS "C" AND "D" ARE PILE FOUNDATIONS, PILE CAPS AND CLASS "B" CONCRETE FOR PIERS "C-4" AND "D-5". ALSO SEE NOTE B ON SHEETS NO. 1 AND NO. 2.



PROFILE INTERSTATE ROUTE 95



PROFILE RAMP "B"



SECTION A-A

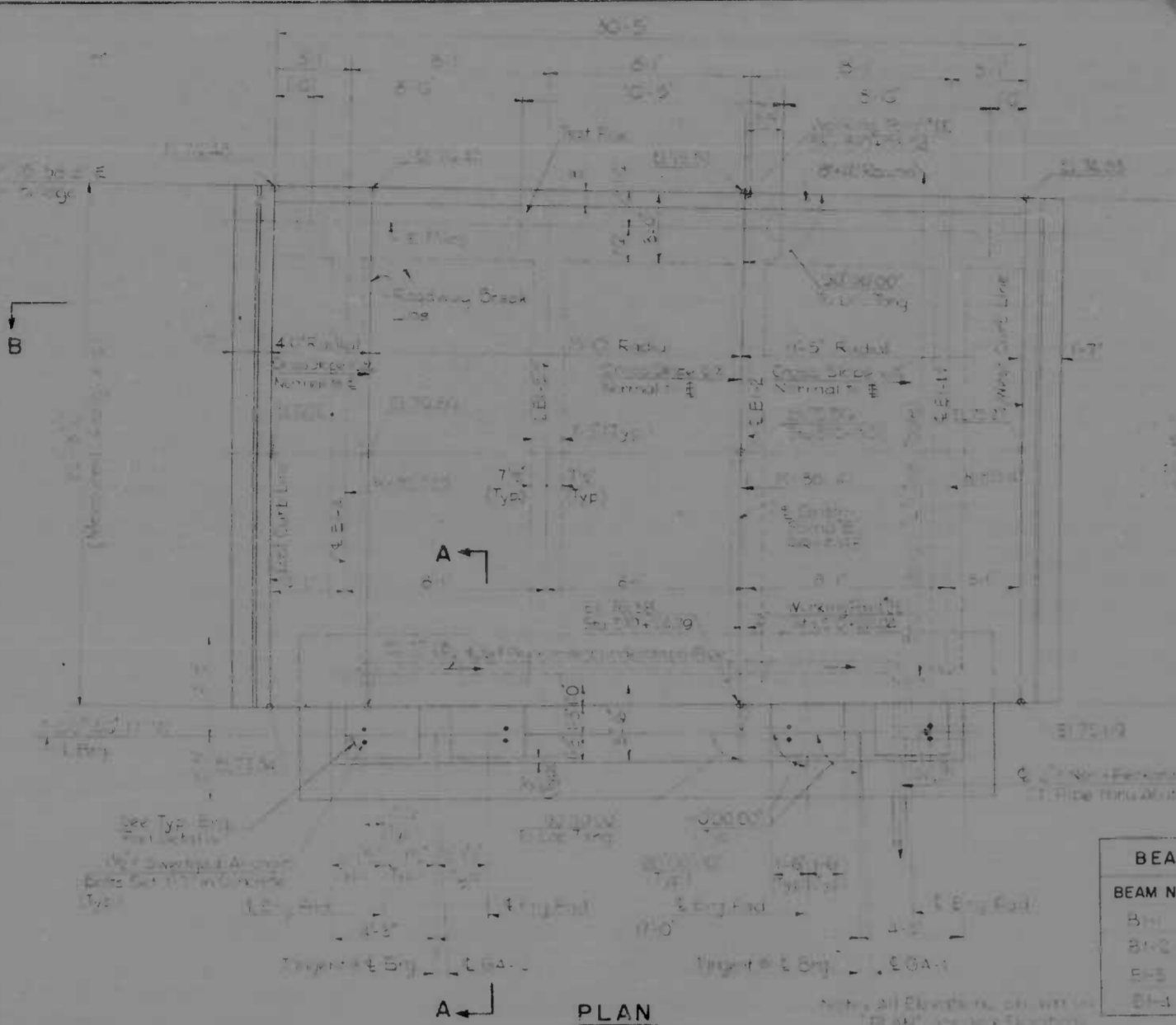


SECTION B-B

TYPICAL A ROACH SPAN

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ANDRUE, BEIDER, STONE & ASSOC., INC. AND DAY, GILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS MORAVIA INTERCHANGE APPROACH SECTIONS & PROFILES TRANSVERSE SECTIONS & APPROACH SPAN	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-B15 BALTO. CITY NO. 1995
		SCALE: As Shown	DATE: 10/26/95
			DRAWN BY: J.J.M. CHK. BY: F.F.M. SHEET NO. (92) S-15 or S-55

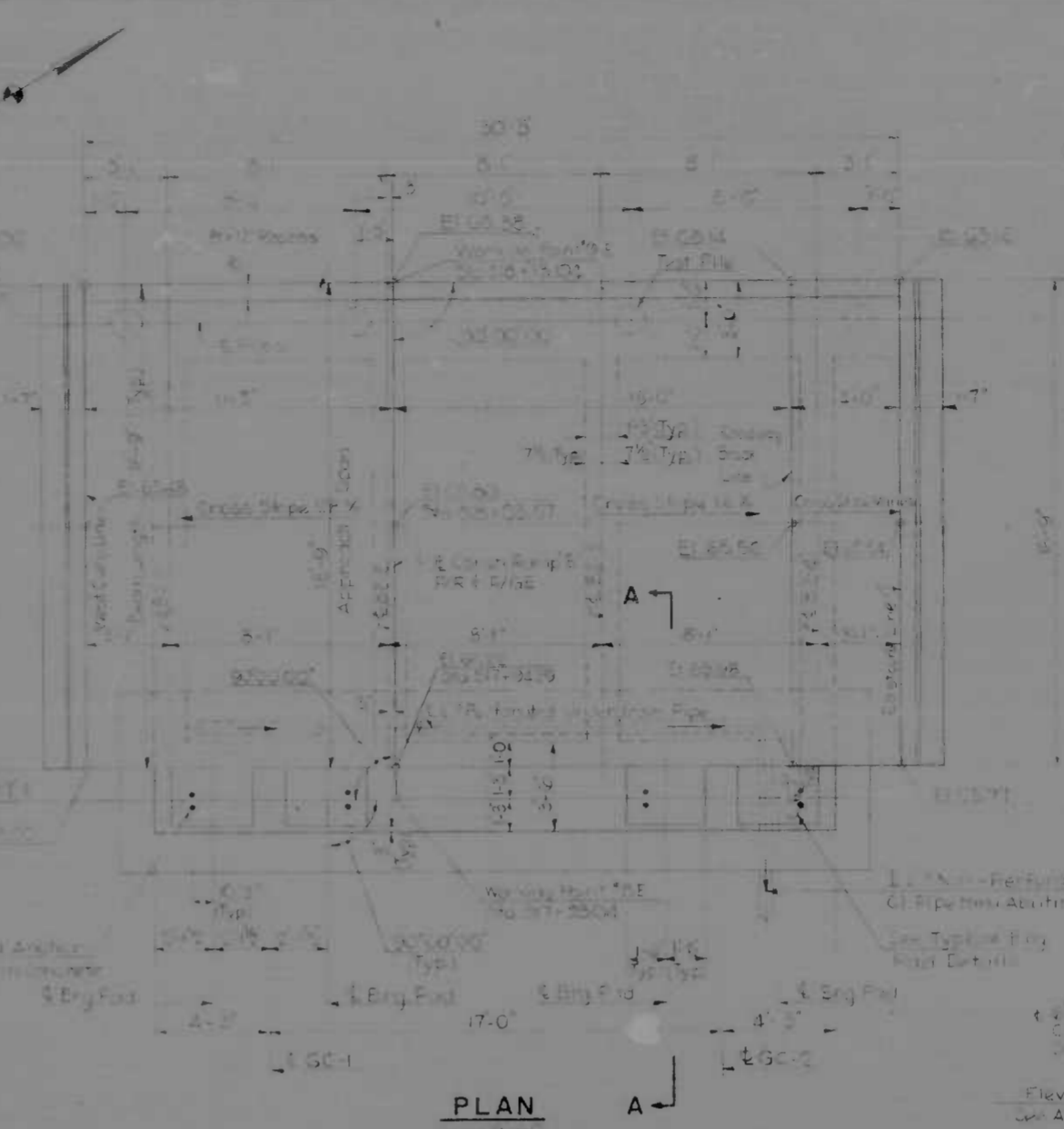
STATE ROAD DIST. NO.	ROUTE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD. 1-95-4(36)36		S-16	(92) S-55



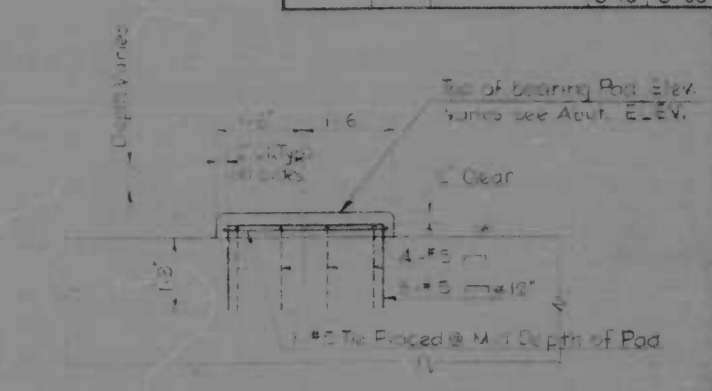
PLAN
SOUTH ABUTMENT

BEAM No.	LENGTH L
BH-1	21'-4 1/2"
BH-2	21'-6 1/2"
BH-3	21'-11 1/2"
BH-4	21'-0"

Note: Beam BH-1, BH-4 measure along axis.

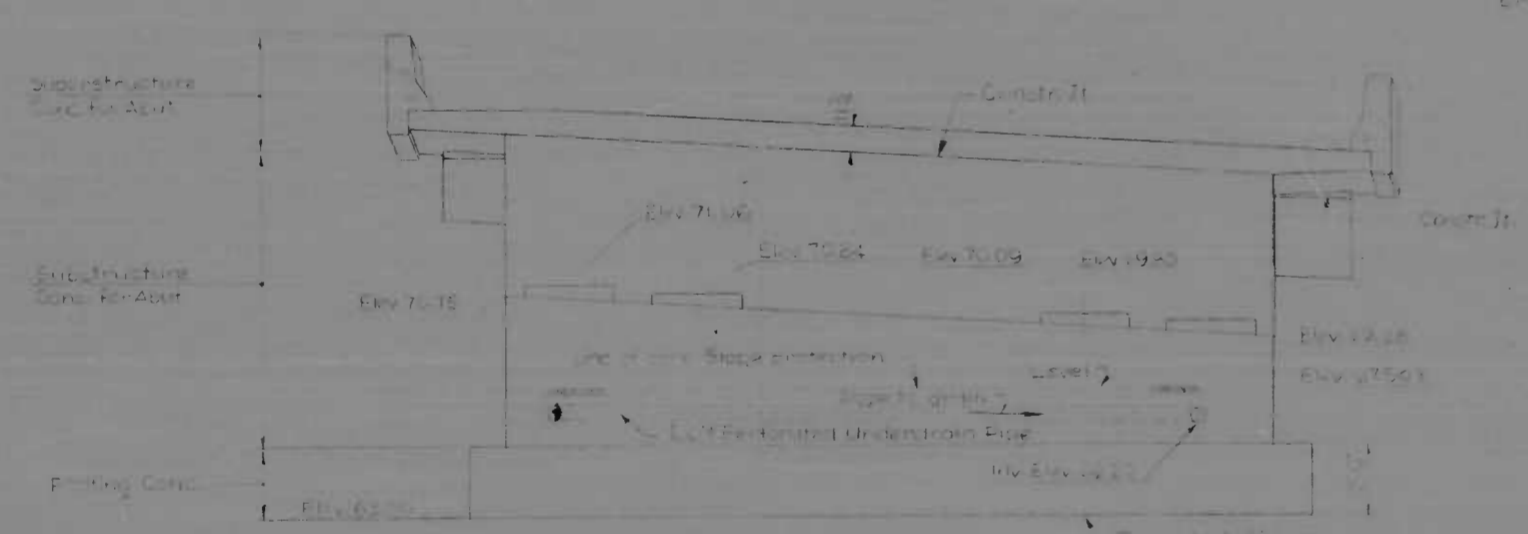


PLAN
NORTH ABUTMENT

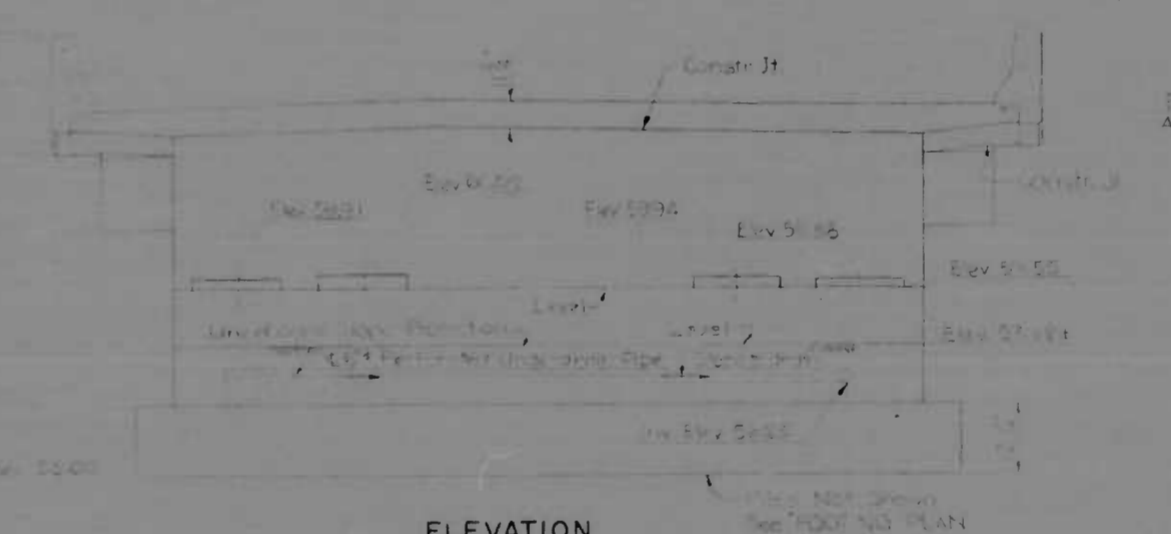


TYPICAL BEARING PAD DETAILS

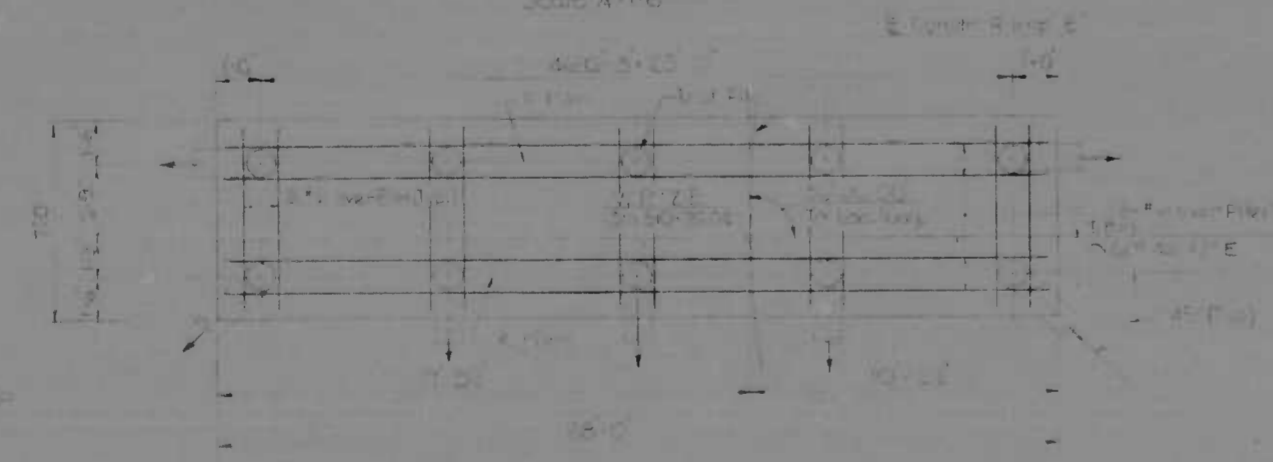
Note: Space reinforcement to Union Anchor Bolts. Bearing Pad to be cast in place on formwork. The contractor may have, mobilizing the pads, to provide all the above expense.



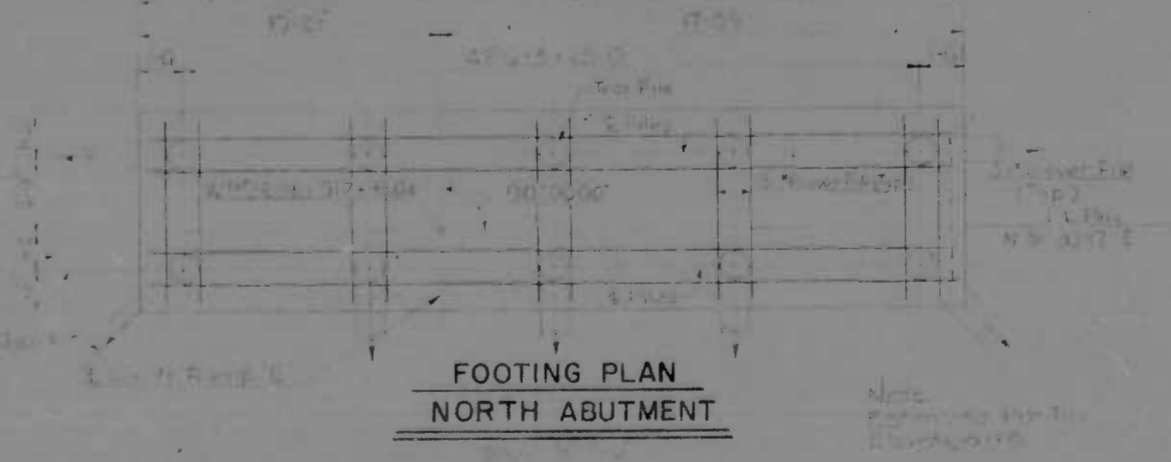
ELEVATION
SOUTH ABUTMENT



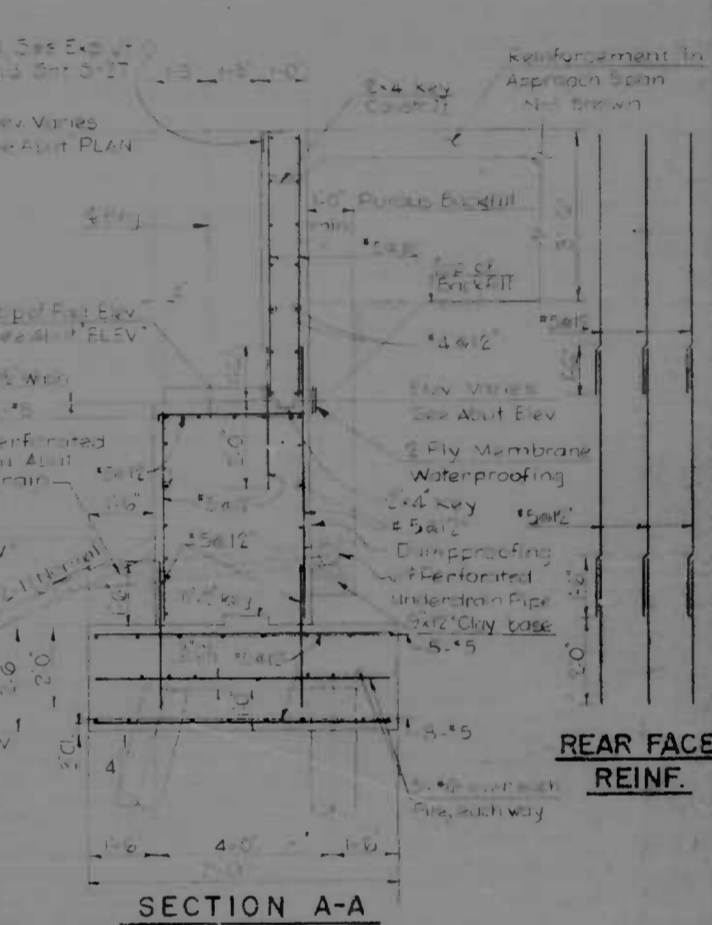
ELEVATION
NORTH ABUTMENT



FOOTING PLAN
SOUTH ABUTMENT



FOOTING PLAN
NORTH ABUTMENT



SECTION A-A

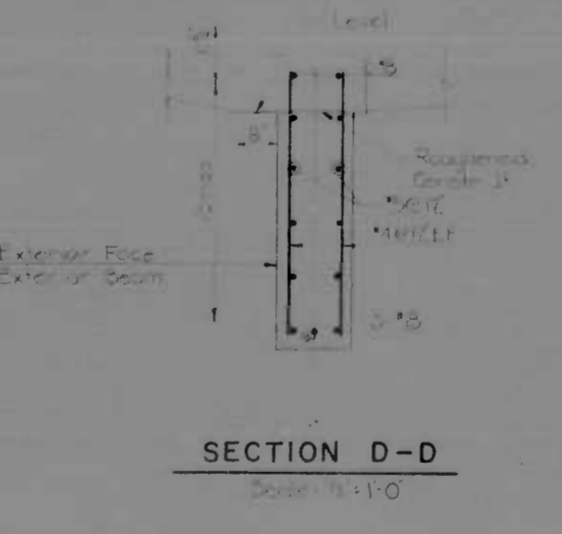
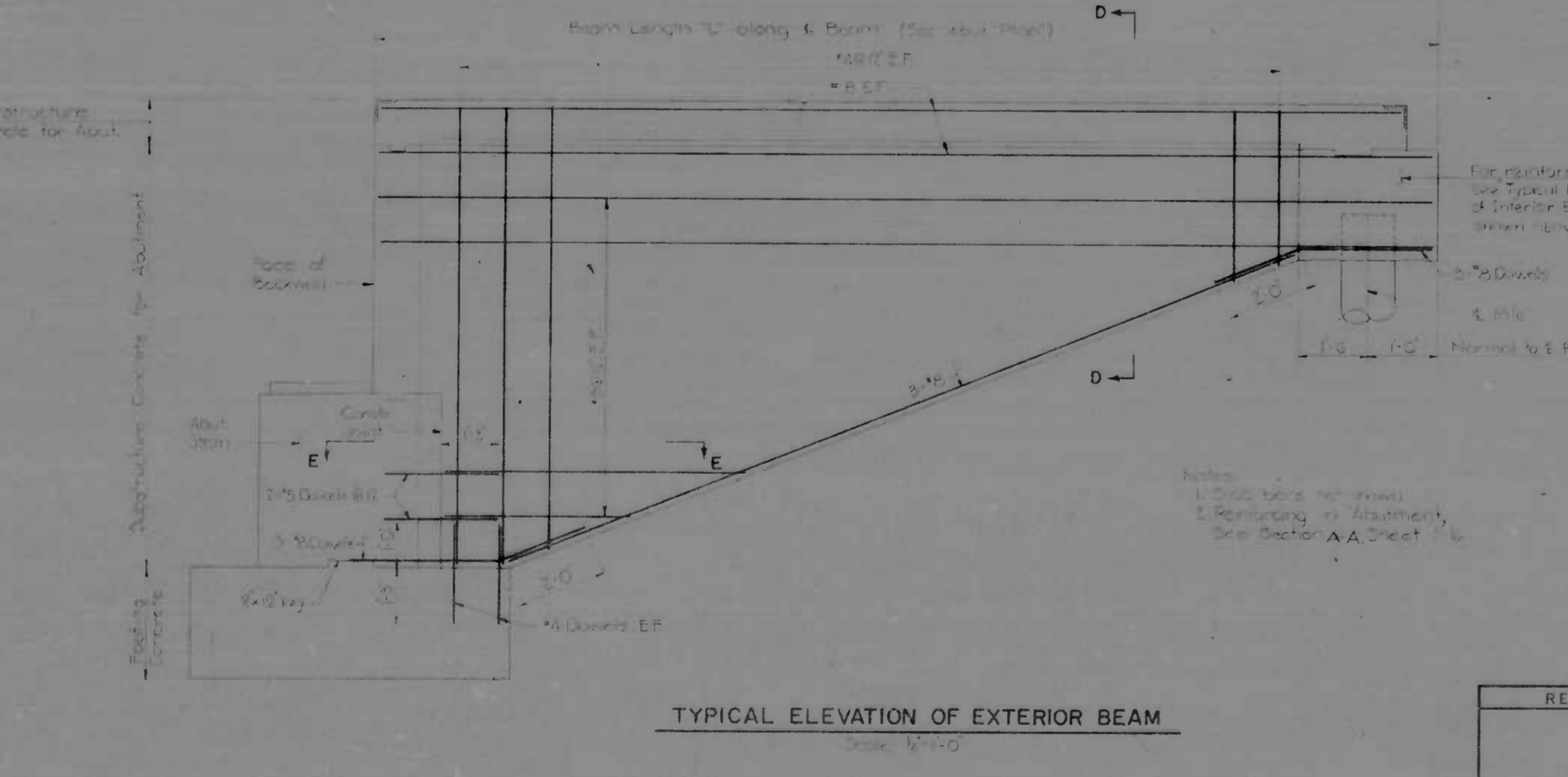
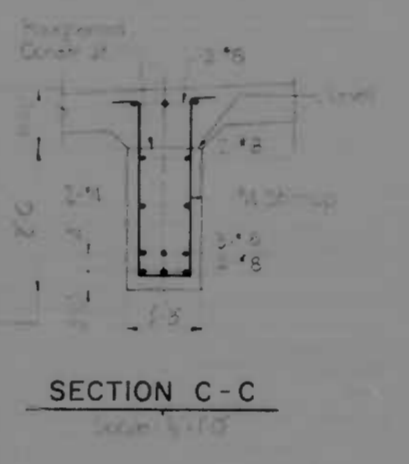
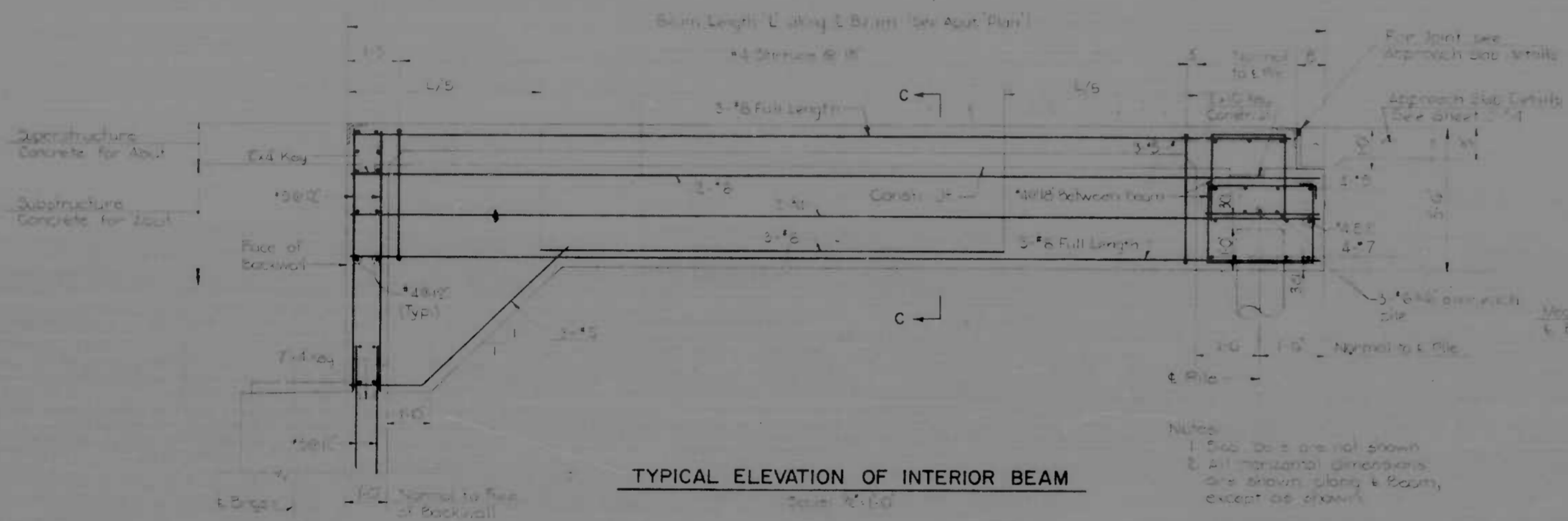
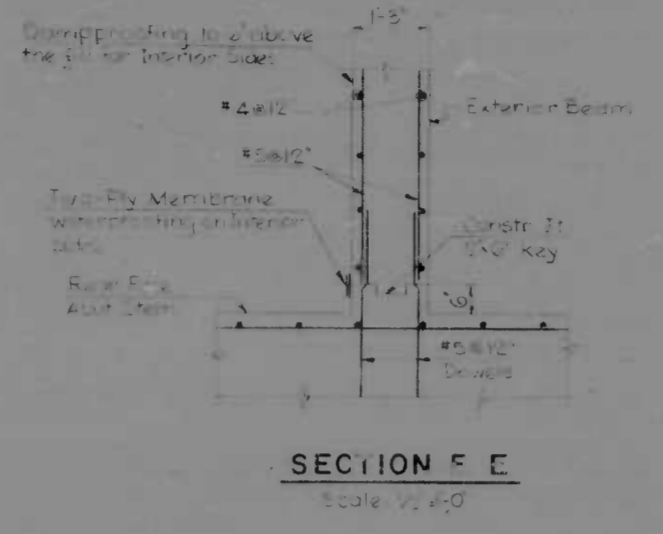
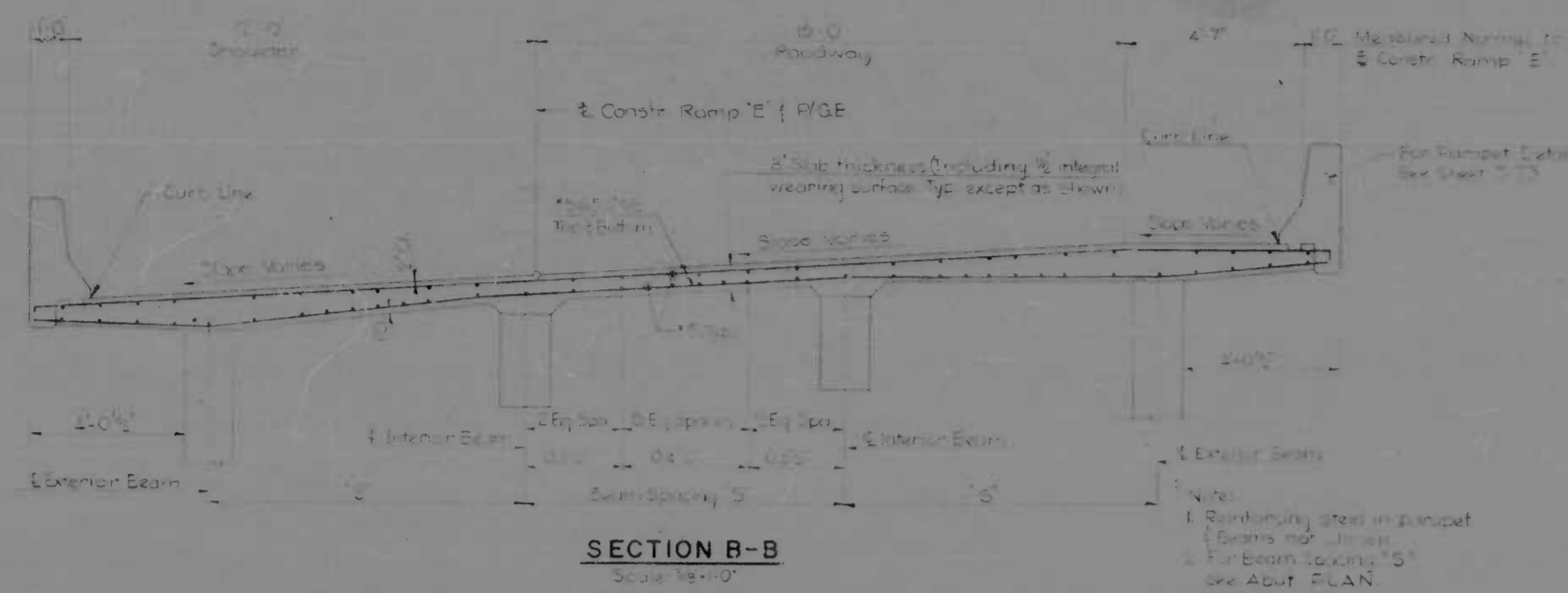
REAR FACE REINF.

Note: All piles shall be 12" diam. and spaced @ 3'-0" center-to-center. Drive concrete piles down to a minimum safe bearing value or 30 feet or to practical refusal.

REFERENCE	SHEET NO.
General Plan & Elevation	1-95-4(36)36-1
Approach Spine Detail	1-95-4(36)36-2
Approach Spine Details	1-95-4(36)36-3
Structural Details	1-95-4(36)36-4
Section B-B	1-95-4(36)36-5
SR Concrete Pier Details	1-95-4(36)36-6

REVISIONS CONSULTANT KNOERLE, 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 DIVISION FOR BALTIMORE CITY	
	1-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95 AND B & O RR ABUTMENTS	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO.: 1995

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-17	92

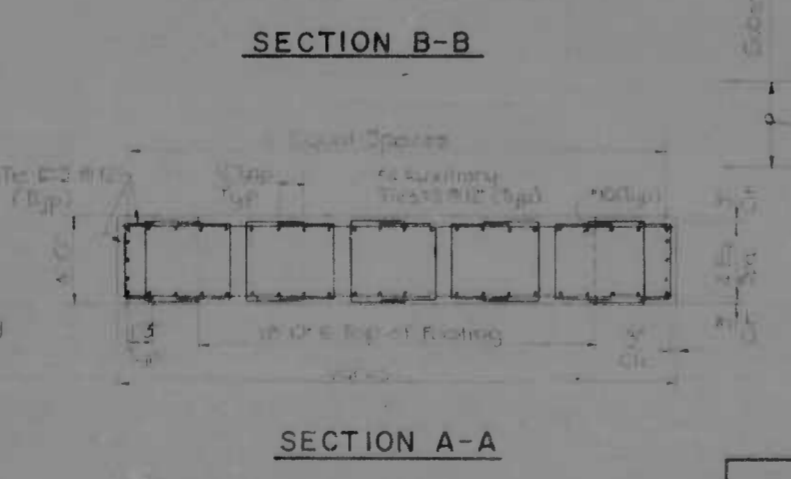
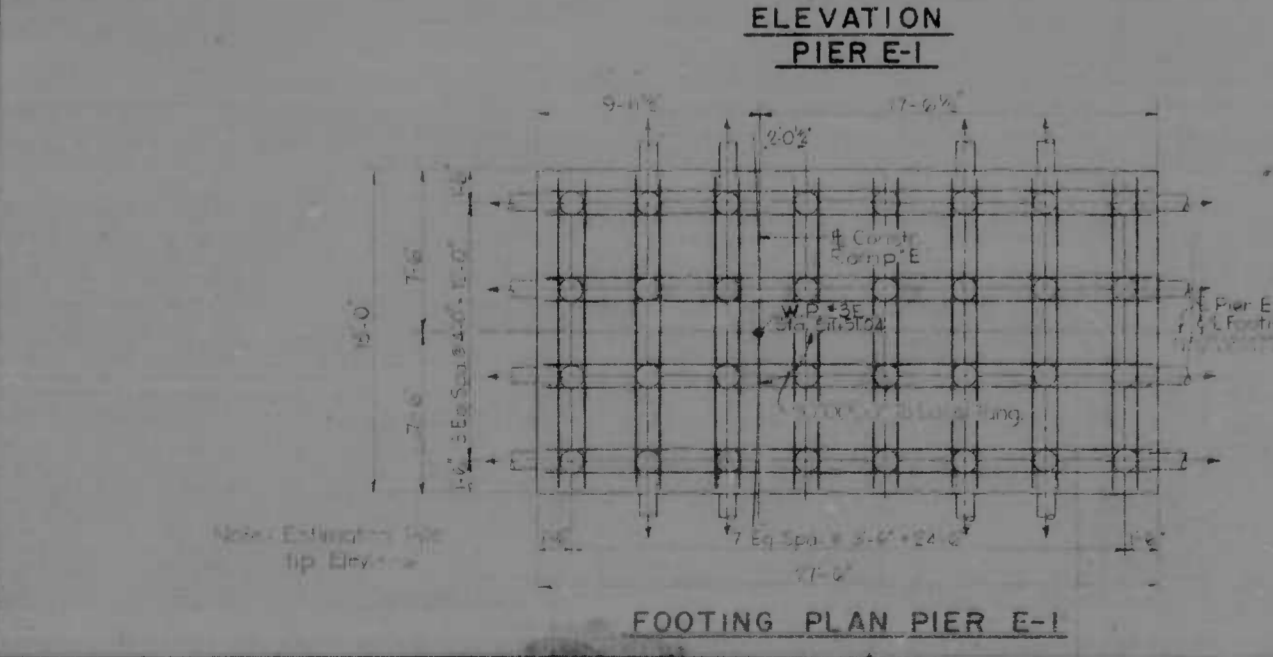
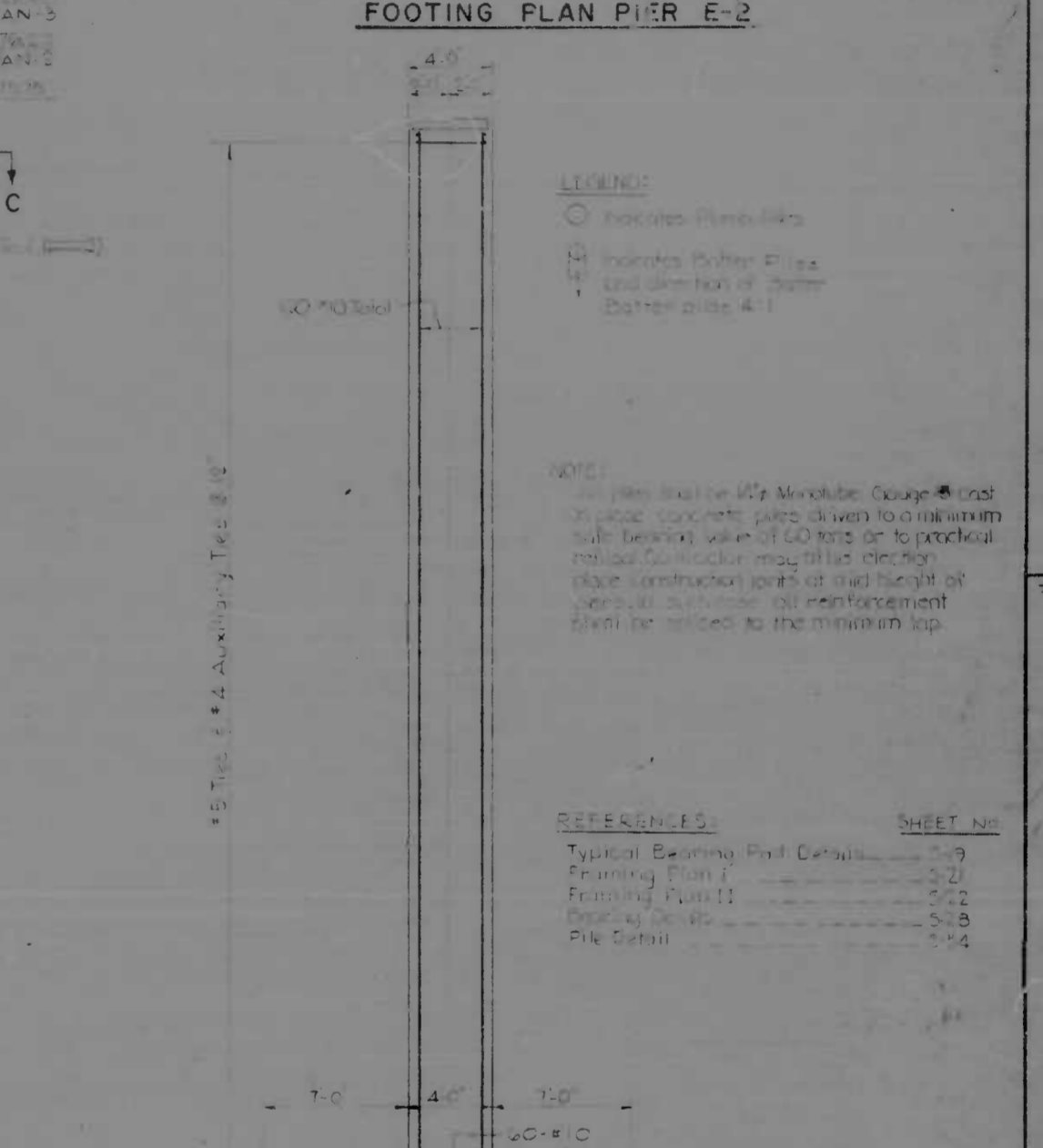
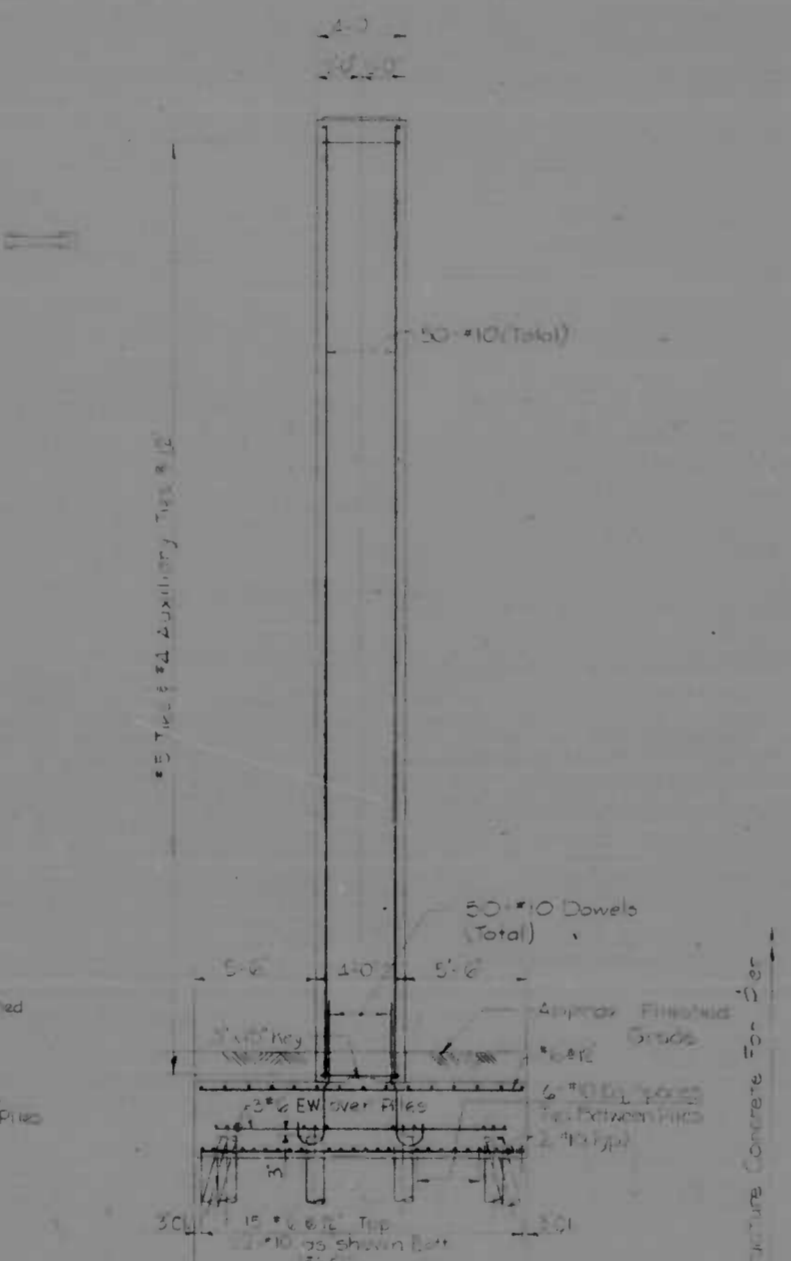
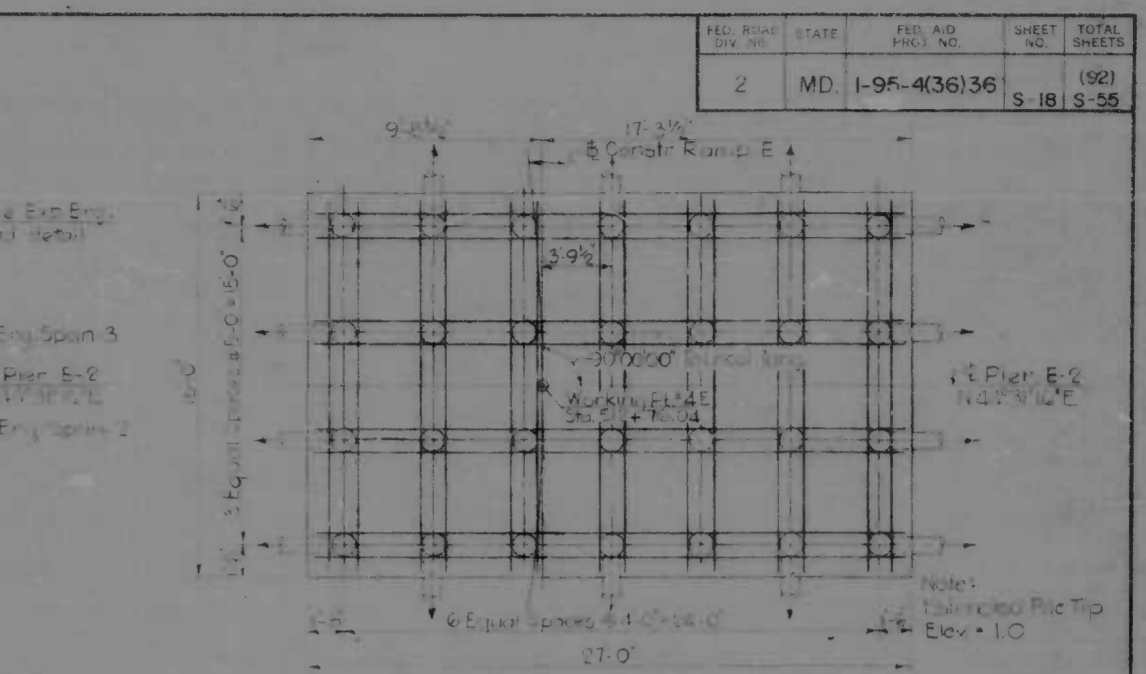
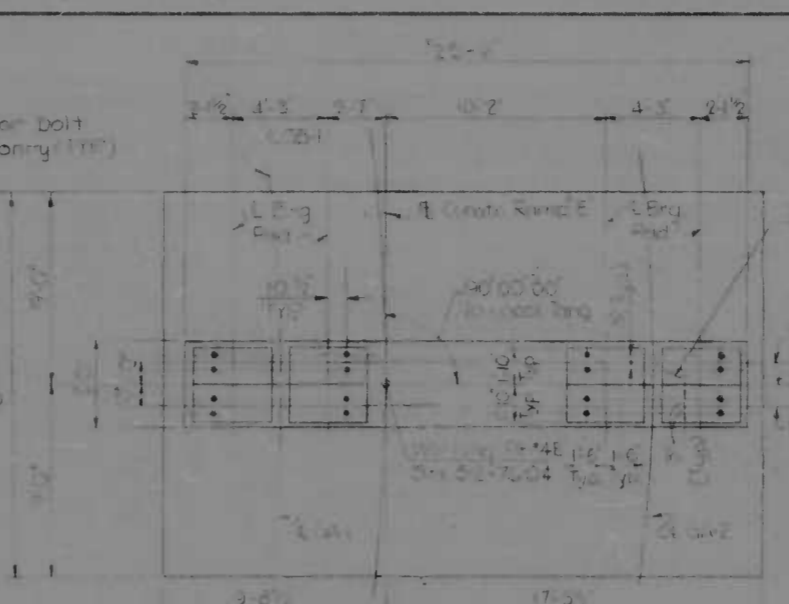
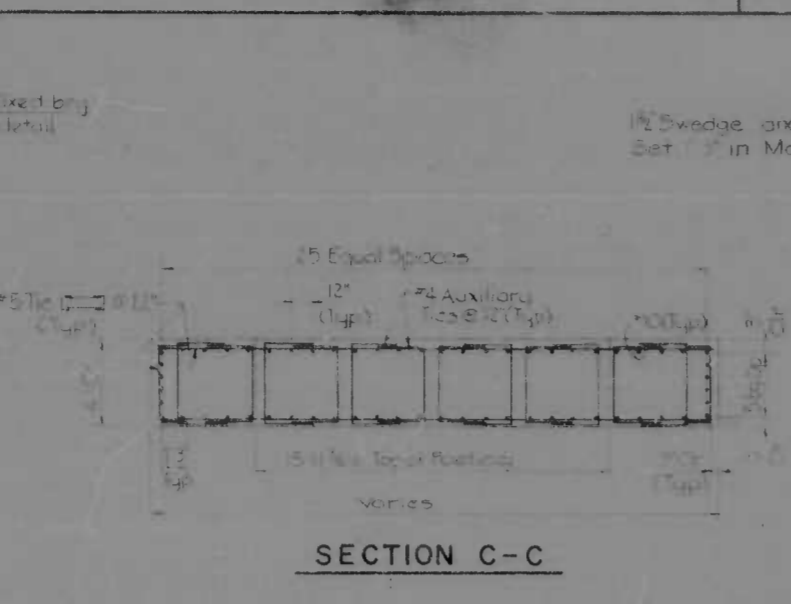
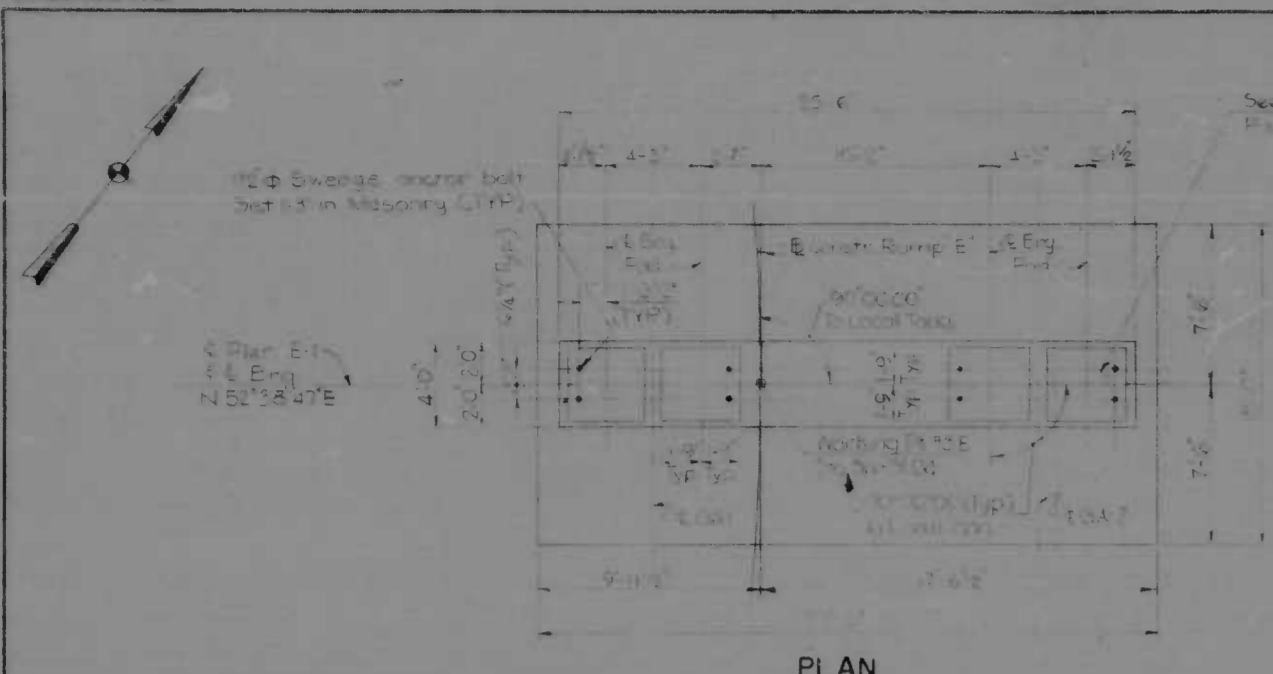


Notes:
 1. All piles shall be 12" diameter pipe piles with a bearing value of 40 tons or to practical refusal.
 2. Place transverse steel bars normal to Base Line Ramp 'E' and longitudinal steel bars as shown.

REFERENCES:
 Abutment Substructure Details: _____

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KINCORE, BENDER, STONE & ASSOC., INC. AND HATZ, DIMAS & ASSOC., INC. CONSULTING ENGINEERS 345 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95 AND B&O RR APPROACH SPAN DETAILS	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO.: 1995
		SCALE: As Shown	DES. BY: J.R. CHK. BY: F.F.M. SHEET NO. (92) S-17 of S-55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	S-18	S-55



LEGEND:
 ○ Indicates Reinforcing Bars
 □ Indicates Batter Piles and direction of batter. Batter piles 4:1

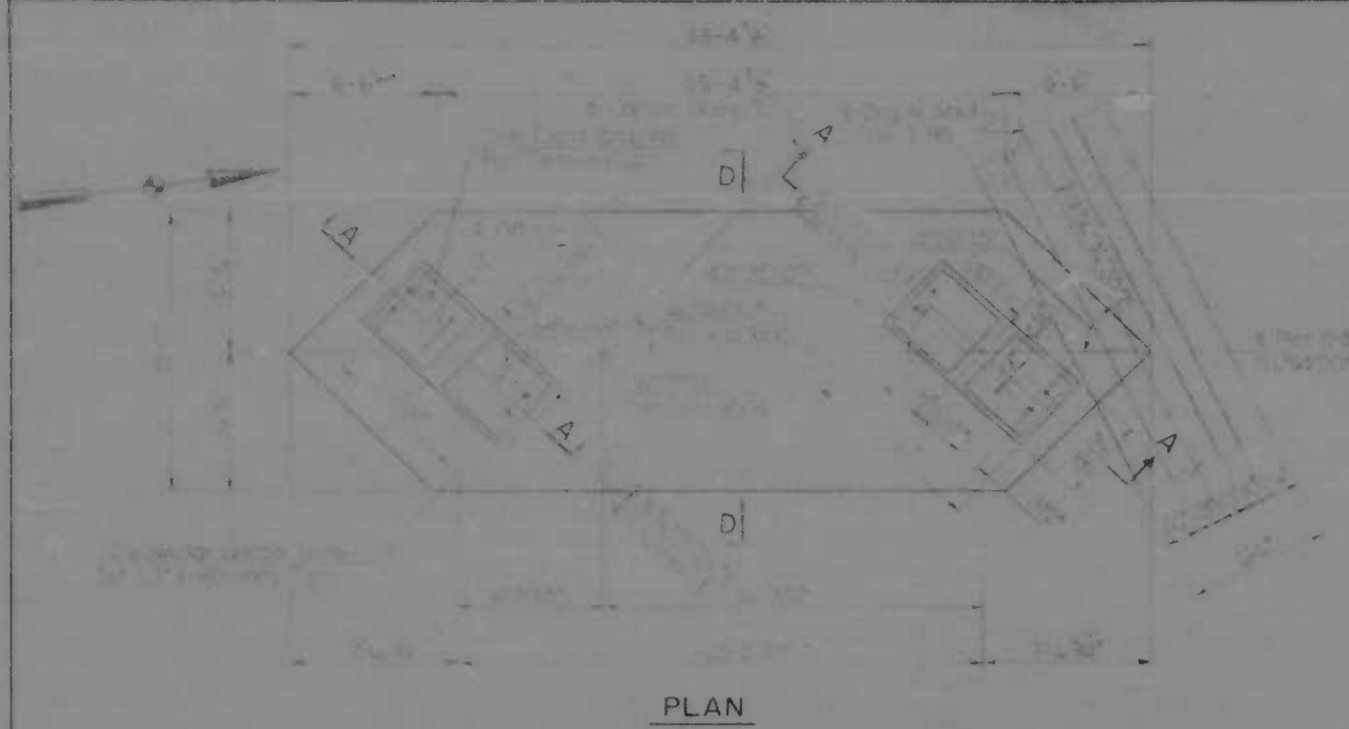
NOTE:
 All reinforcement shall be checked by the contractor and in place concrete piles driven to a minimum safe bearing value of 60 tons or to practical refusal. Contractor may fill election place construction joints at mid height of vertical columns. All reinforcement shall be tied to the minimum lap.

REFERENCES:

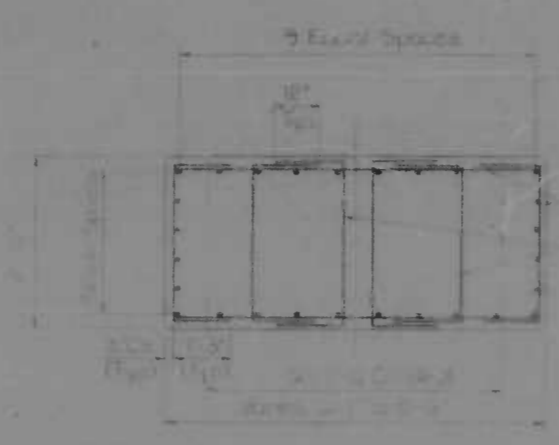
REFERENCE	SHEET NO.
Typical Bearing Pile Details	2-9
Foundation Plan I	2-21
Foundation Plan II	2-22
Special Details	2-23
Pile Details	2-24

REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
	KROEHL, BEIDER, STONE & ASSOC., INC. AND MATZ, CARLOS & ASSOC., INC. CONSULTING ENGINEERS 311 N. CALVERT STREET BALTIMORE, MARYLAND 21202	DEPARTMENT OF PUBLIC WORKS & 1-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B" I-95, AND B & O R.R. PIERS E-1 & E-2 AND DETAILS	INTERSTATE DIVISION FOR BALTIMORE CITY
	DRAWN BY: R.V.P.	DES. BY: CYT & K.S.J.	SHEET NO. (92)
	SCALE: 3/16"=1'-0"	DATE: 10/18/95	S-18 of S-55

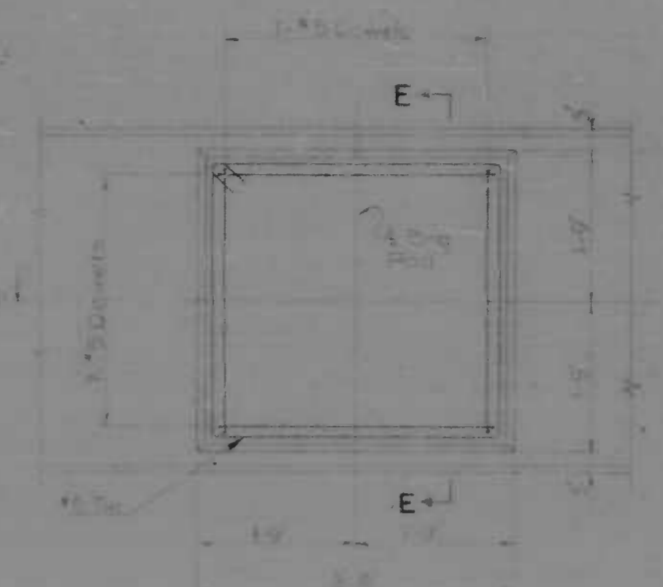
NO.	DATE	BY	CHK.	APP.
2	MD 1-95-4(36)36			5-19 8-25



PLAN

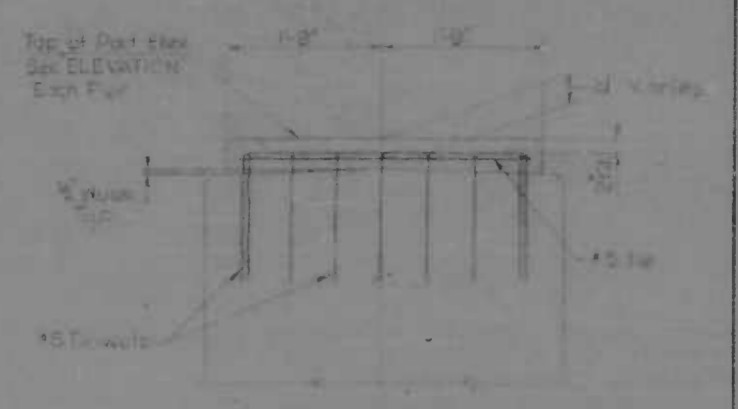


SECTION B-B

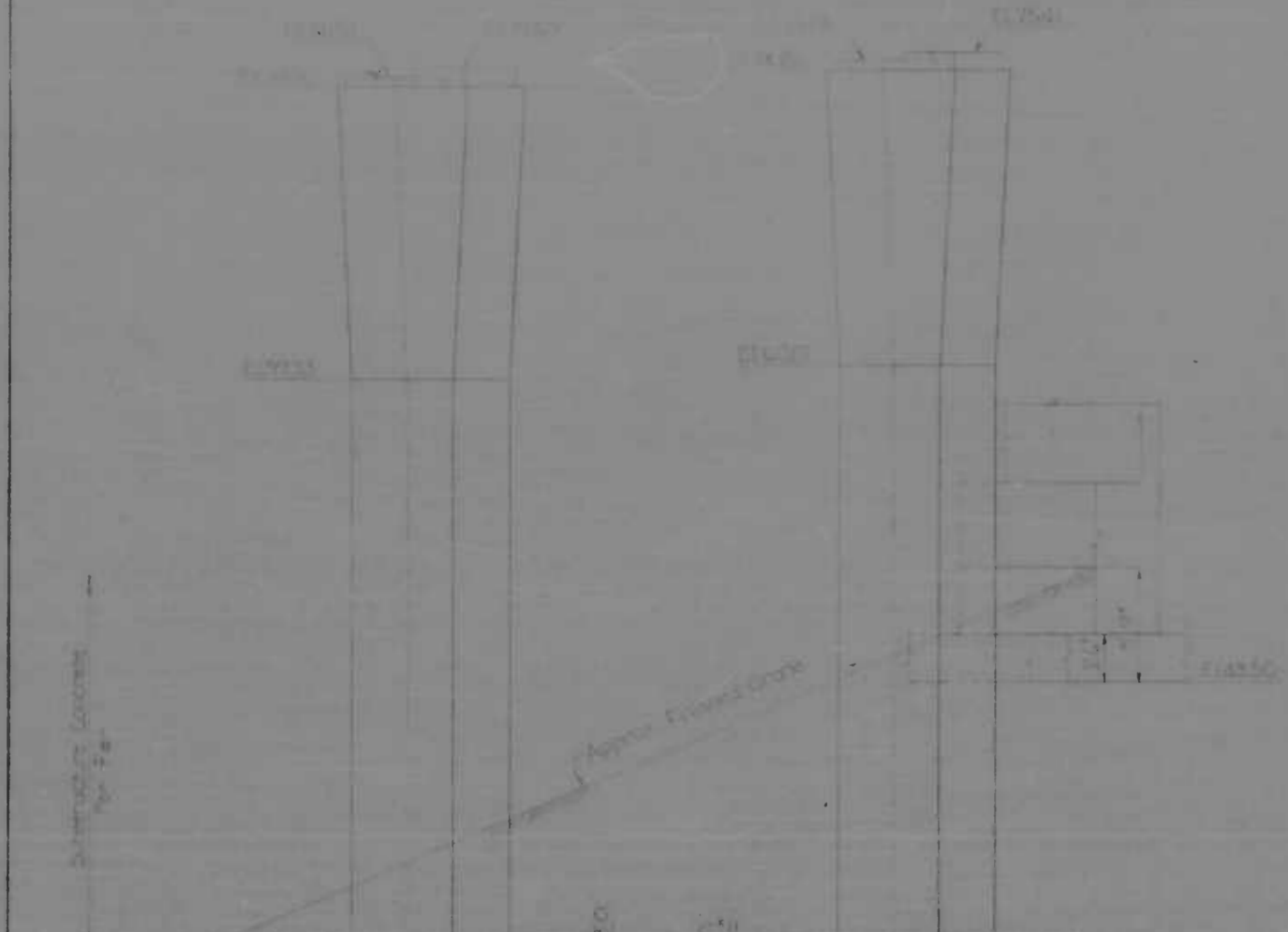


PLAN

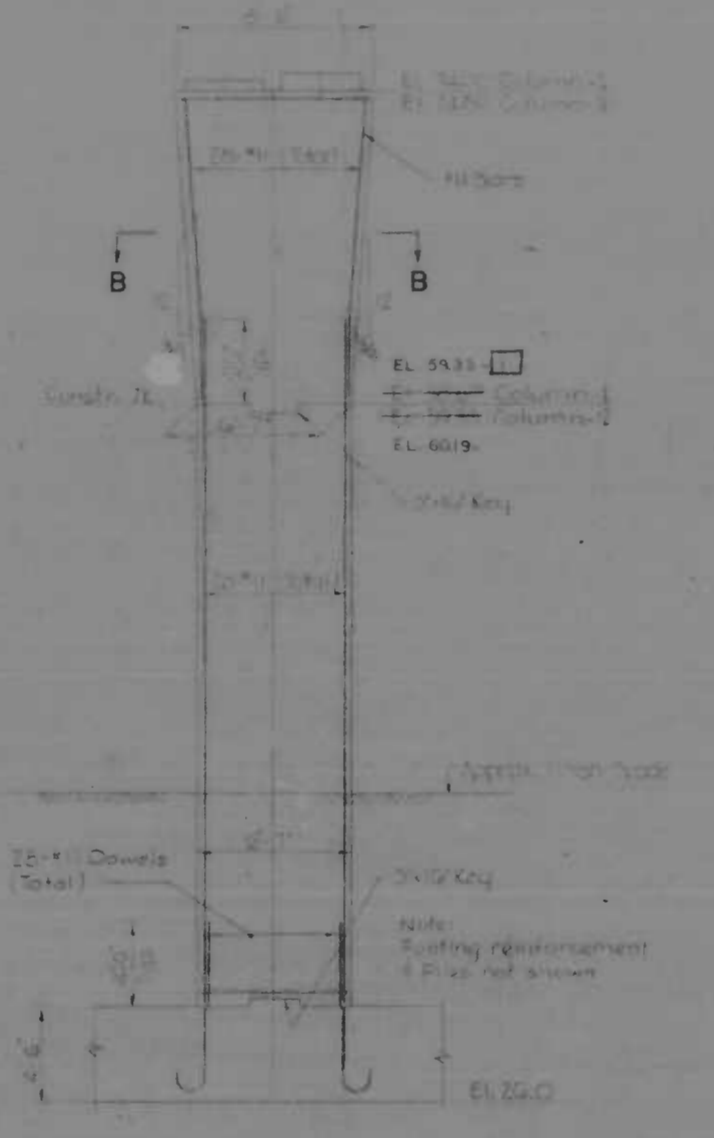
FIXED



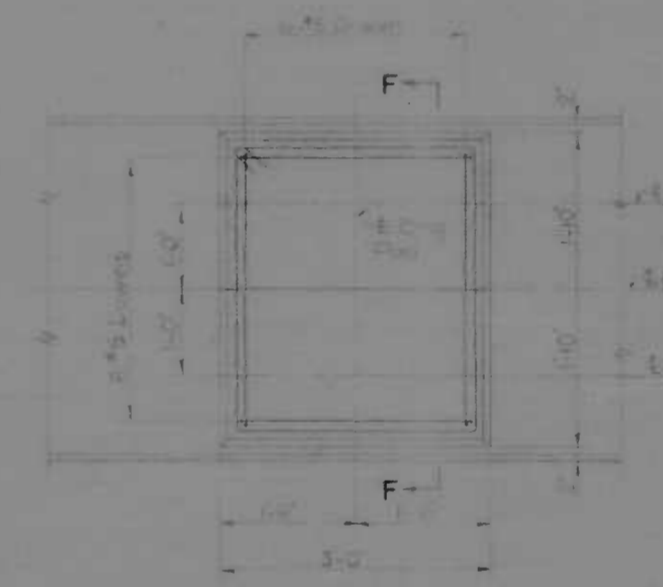
SECTION E-E



ELEVATION

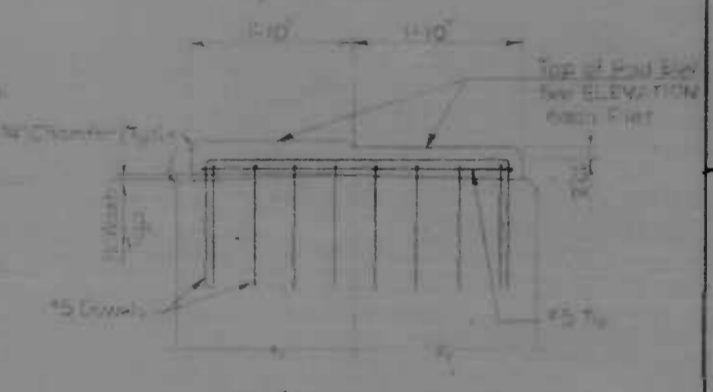


SECTION A-A



PLAN

EXPANSION



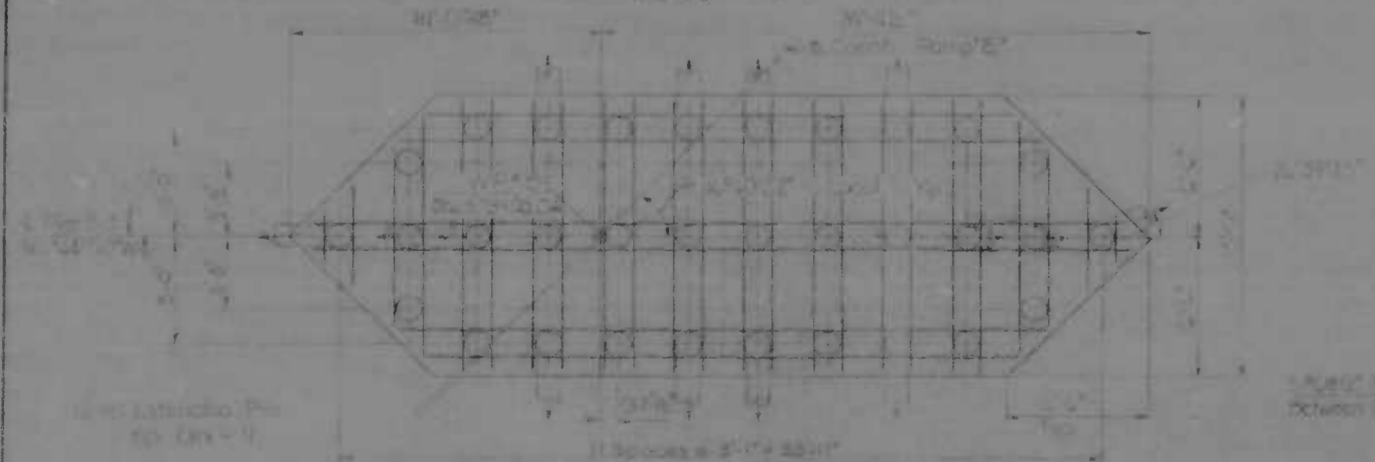
SECTION F-F

BEARING PAD DETAILS

NOTE: See the bearing pad to pier anchor with the bearing pad to pier anchor for location of anchor bars.

NOTE: All bars shall be #6. Reinforce concrete with #3. Minimum side bearing ratio of 50% or to practical extent.

PRESENTED BY: [Signature] SHEET NO. 192
 GENERAL CONTRACTOR: [Signature]
 ENGINEER: [Signature]
 ARCHITECT: [Signature]



FOOTING PLAN



SECTION D-D

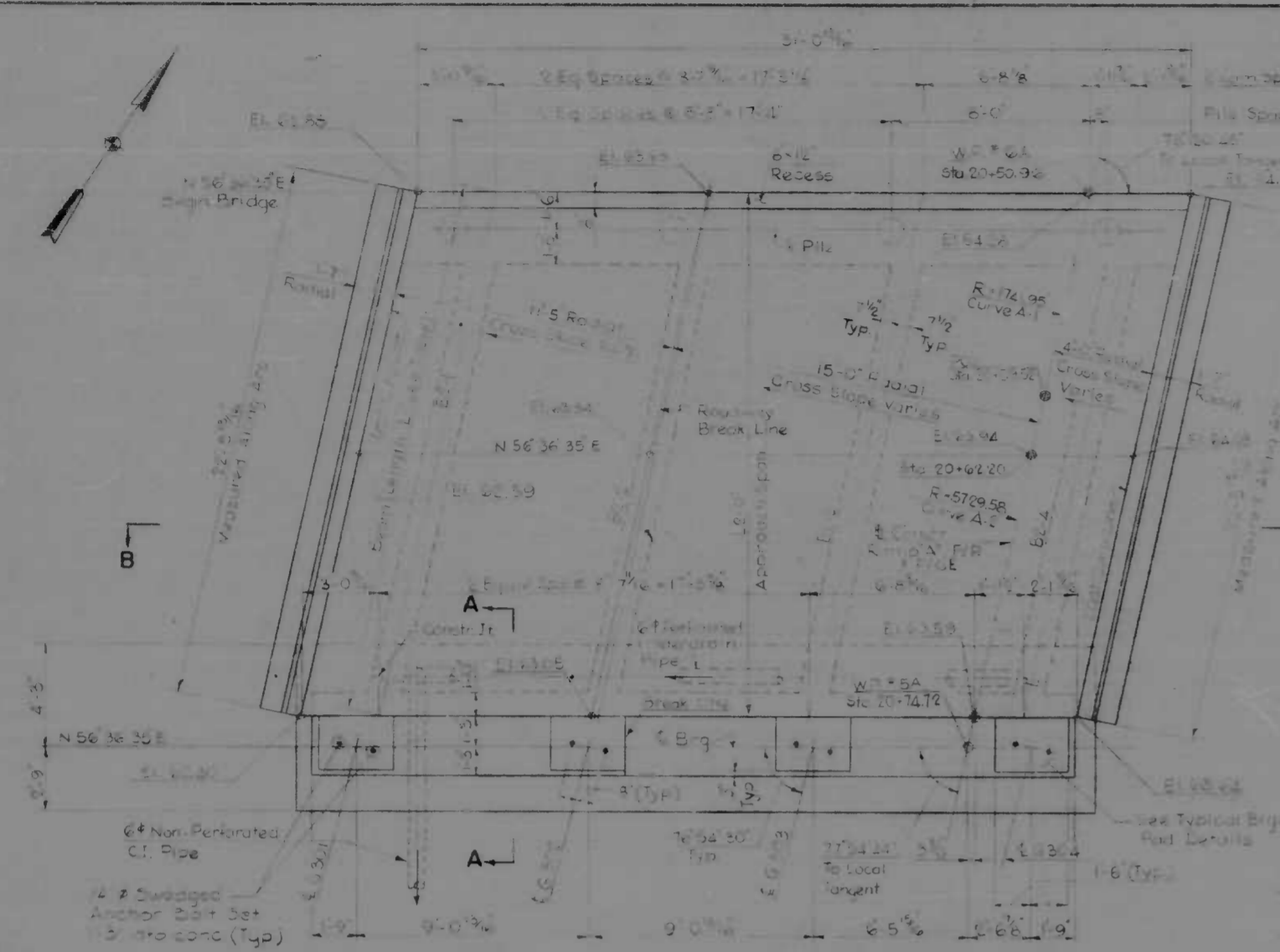
LEGEND:
 O indicates Blank Plan
 □ indicates Vertical Rebar Plan and Section of Pier

REVISIONS 1 - REVISED EL. 2-1-72	CONSULTANT KIMBALL, 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 DIVISION FOR BALTIMORE CITY	
		DRAWN BY: R.V.P. CHECKED BY: R.V.P. T.A.P. NO.: 4-56-4126/36 S.P.C. NO.: BC 246-33-015 BALTIMORE CITY NO.: DVP	DESIGNED BY: A.E. CHECKED BY: E.F.M. SHEET NO.: 192 5-19 8-25

SCALE: As Shown

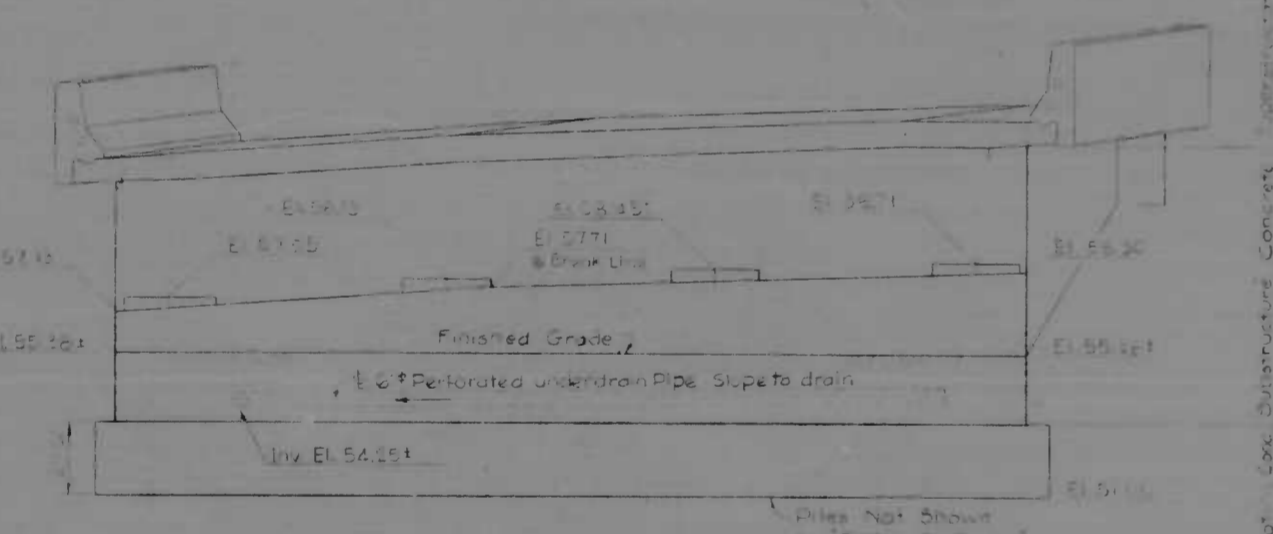
DATE: 5-19-72

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-2	(92)

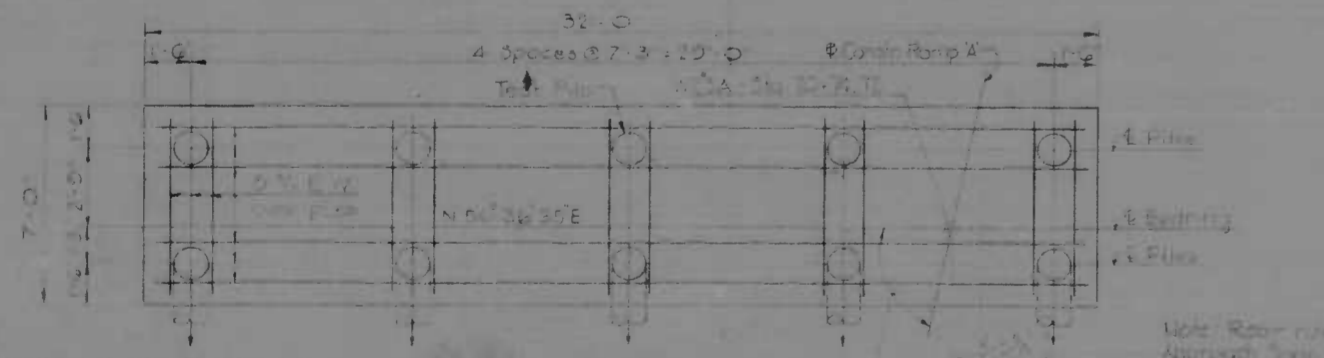


PLAN
1/4" = 1'-0"

Note: All elevations shown on PLAN are deck elevations. Elevation Section B-B See Sheet S-3

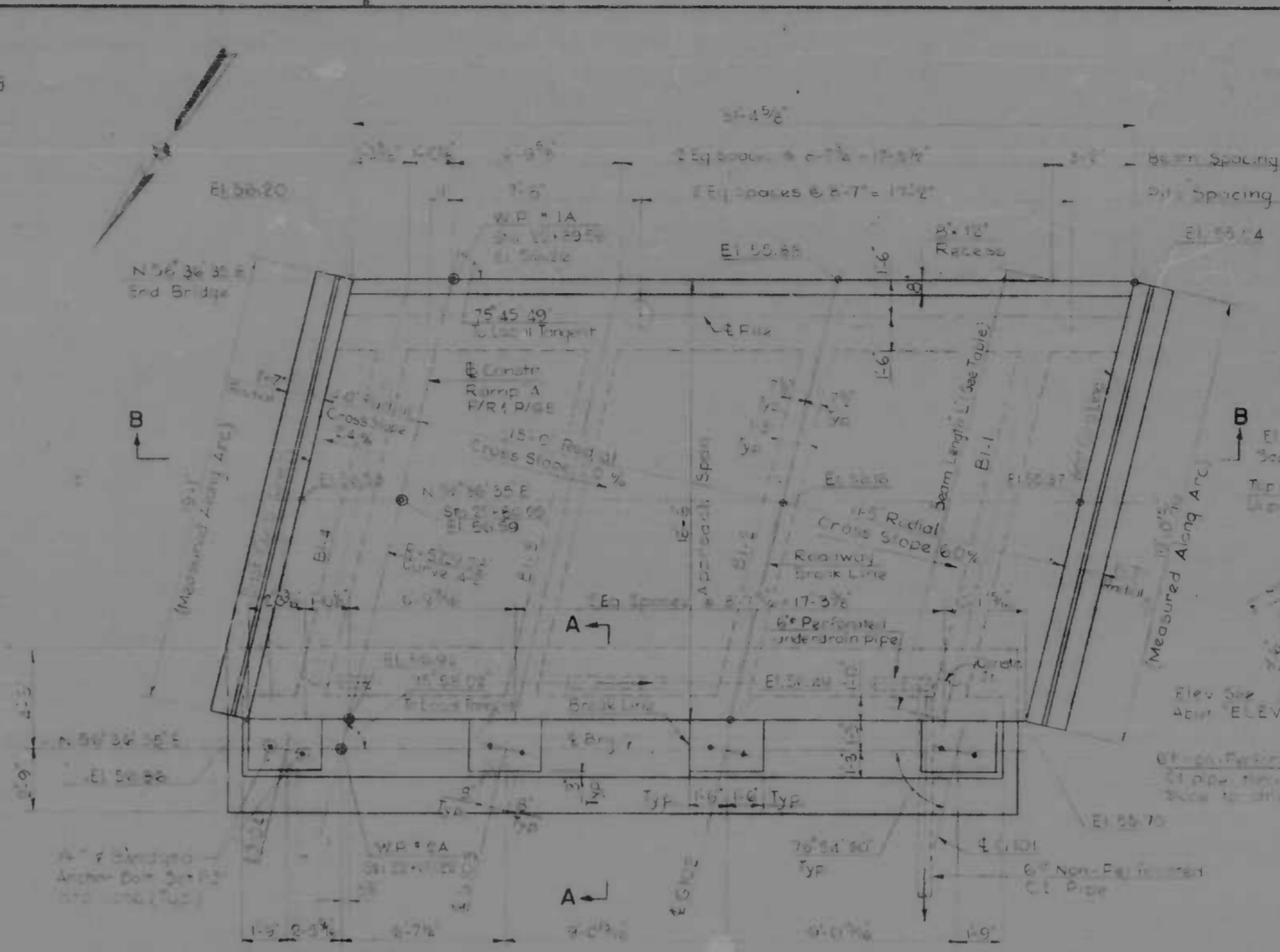


ELEVATION
1/4" = 1'-0"



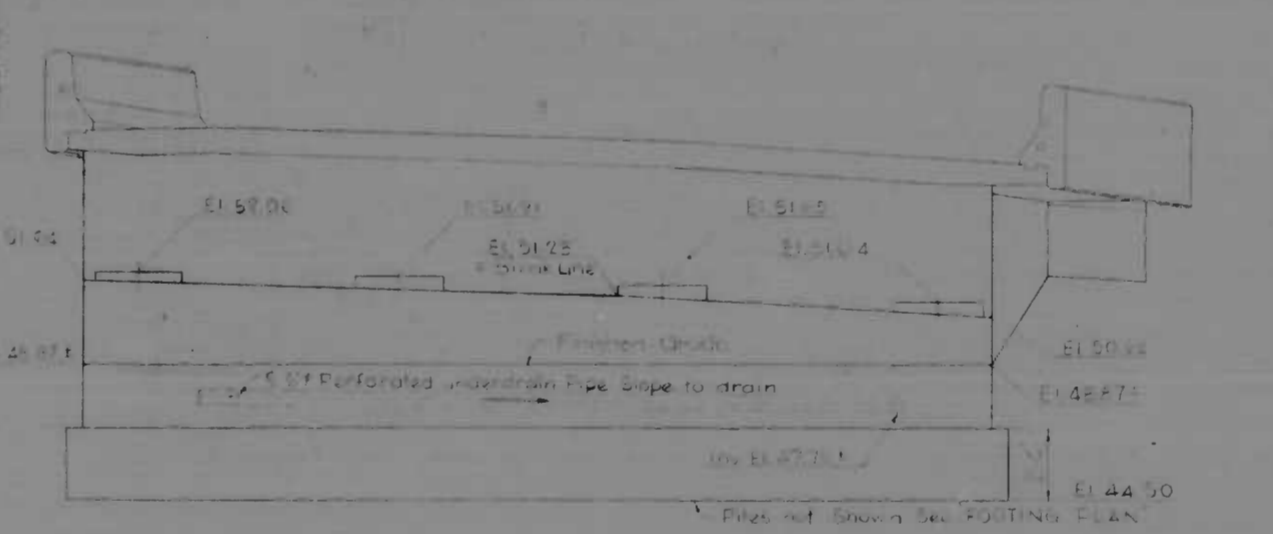
FOOTING PLAN
NORTH ABUTMENT

LEGEND
 (Symbol) Indicates Pile
 (Symbol) Indicates Batter Pile and direction of batter

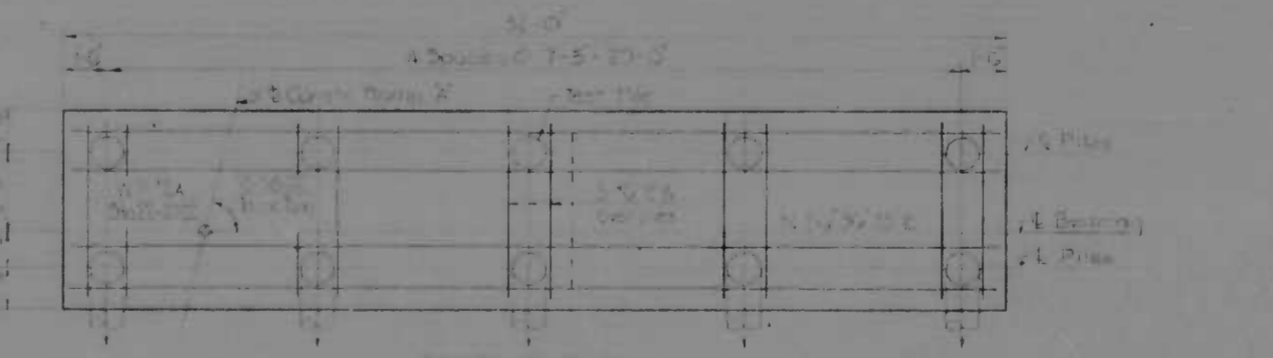


PLAN
1/4" = 1'-0"

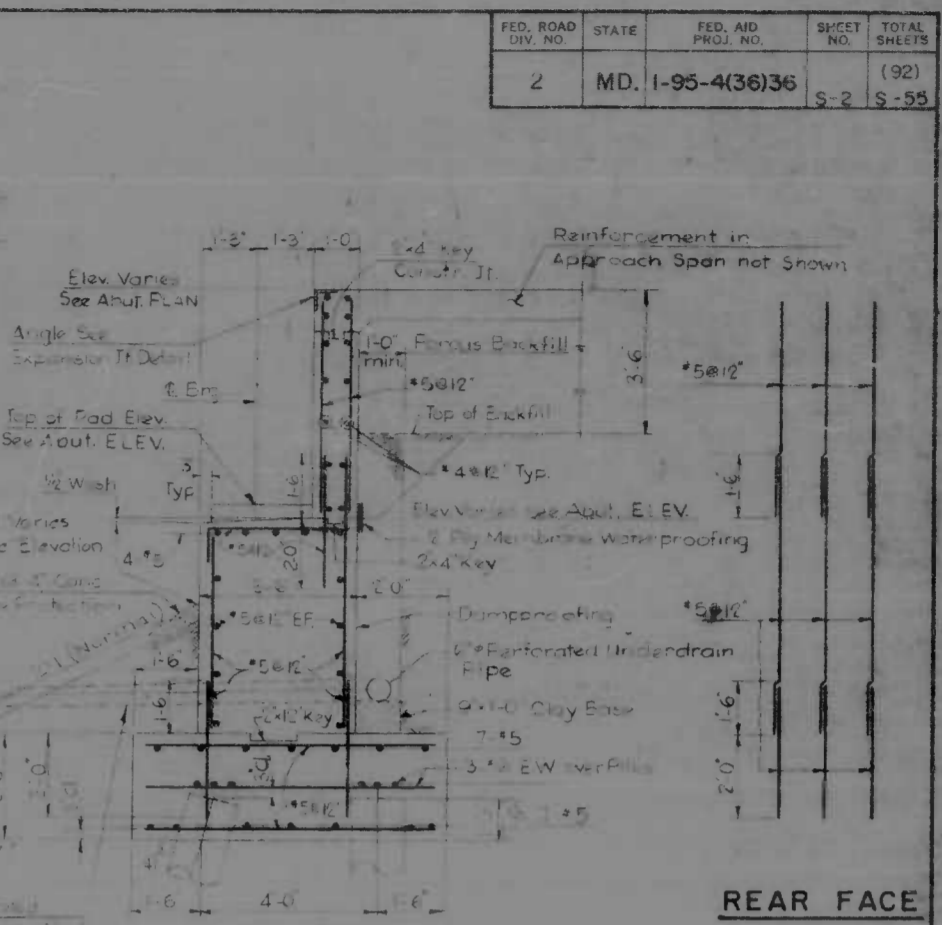
Note: All elevations shown on PLAN are deck elevations. Elevation Section B-B See Sheet S-3



ELEVATION
1/4" = 1'-0"



FOOTING PLAN
SOUTH ABUTMENT



SECTION A-A
3/8" = 1'-0"

REAR FACE REINF.

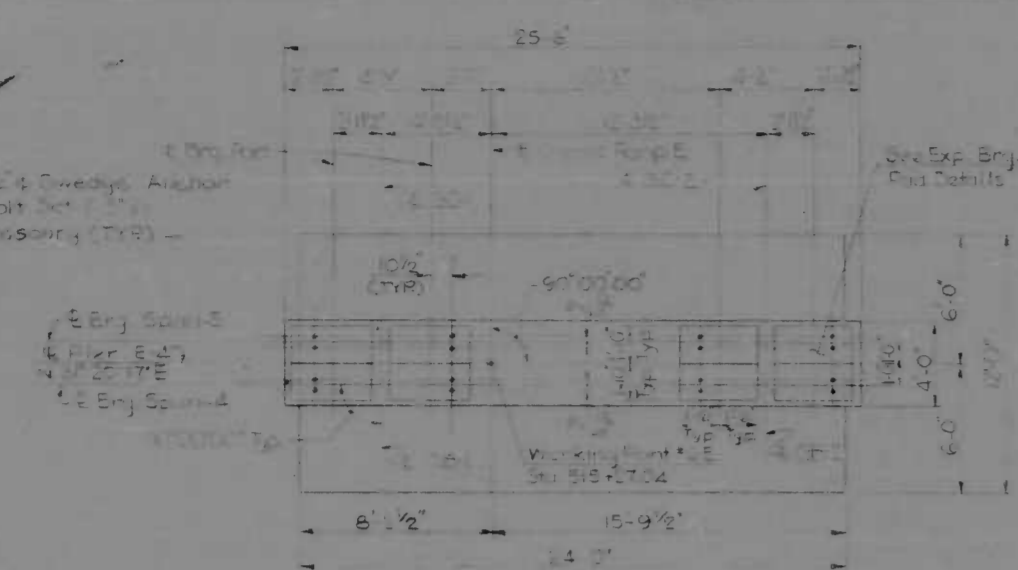
BEAM LENGTHS	
BEAM No.	LENGTH L
B-1	19'-1"
B-2	19'-1"
B-3	19'-0 1/2"
E-1	18'-0 1/2"
E-2	18'-5 1/2"
E-3	20'-5 1/2"
E-4	20'-5 1/2"

Note: All Piles shall be 16" Modulus Grade 50 steel pipe. Concrete shall be driven to a minimum safe bearing value of 60 tons and a maximum of 100 tons.

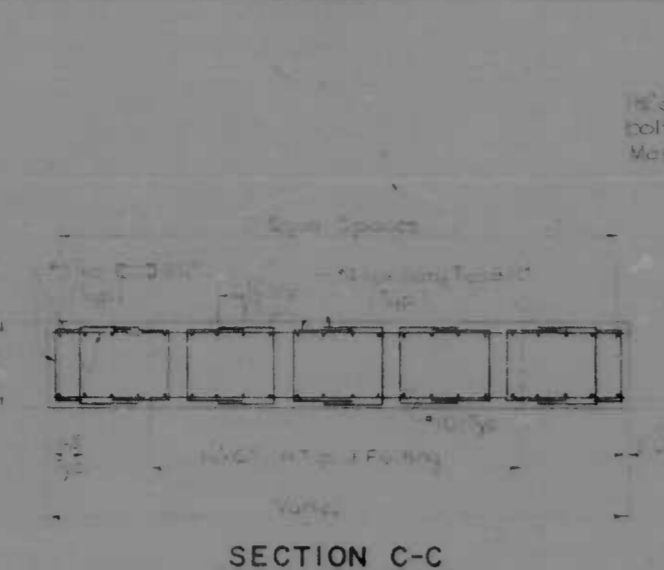
REFERENCE	SHEET NO.
General Plan & Elevation	S-1
Typical Reinforcing Bar Details	S-3
Approach Span Reinforcing Bar Details	S-3
Expansion Joint Details	S-3
Abutment Details	S-4
Superstructure Details	S-5

REVISIONS (Table with 2 columns: Description, Date)	CONSULTANT SHORLE, BENDER, STONE & ASSOC., INC. AND KATZ, COUGS & 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	
		195-WINDLASS-MORAVIA INTERCHANGE RAMP "A" OVER B & O R.R. NORTH & SOUTH ABUTMENTS			
SCALE: As Shown		DATE:		DES. BY: W.J.W. CHK. BY: F.F.M. SHEET NO.: (92) S-2 of S-55	

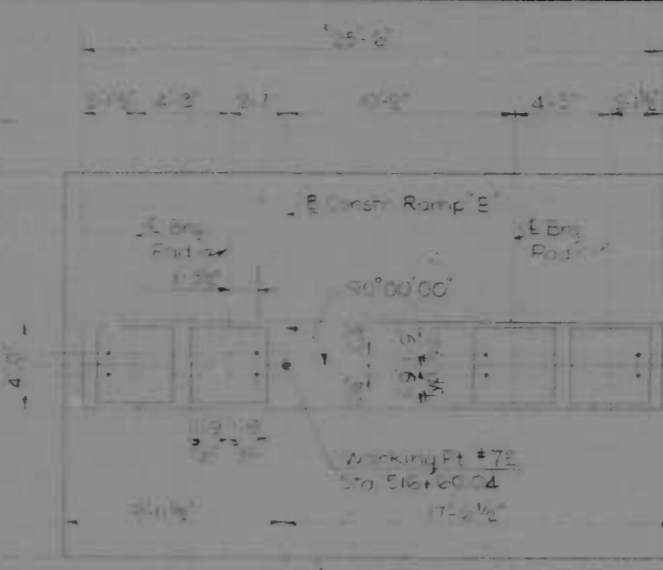
FED. ROAD DIST. NO.	STATE	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	S-20	S-55



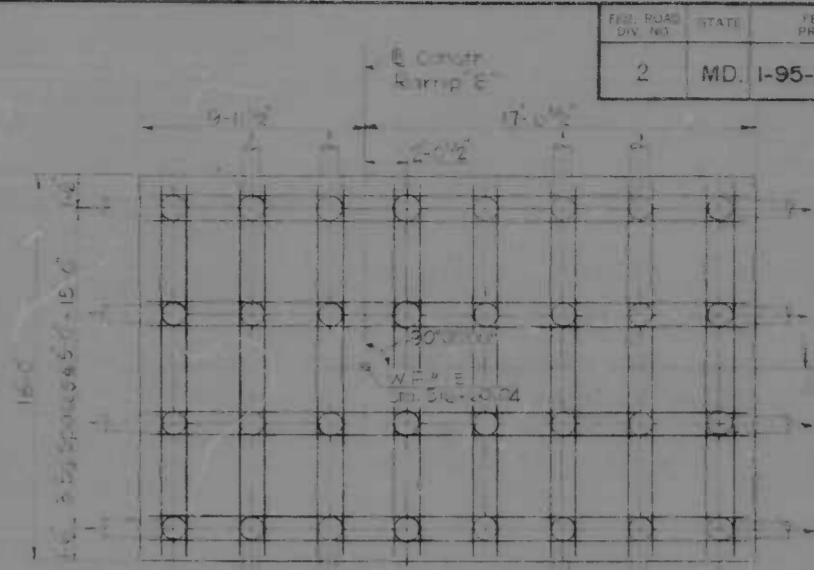
PLAN



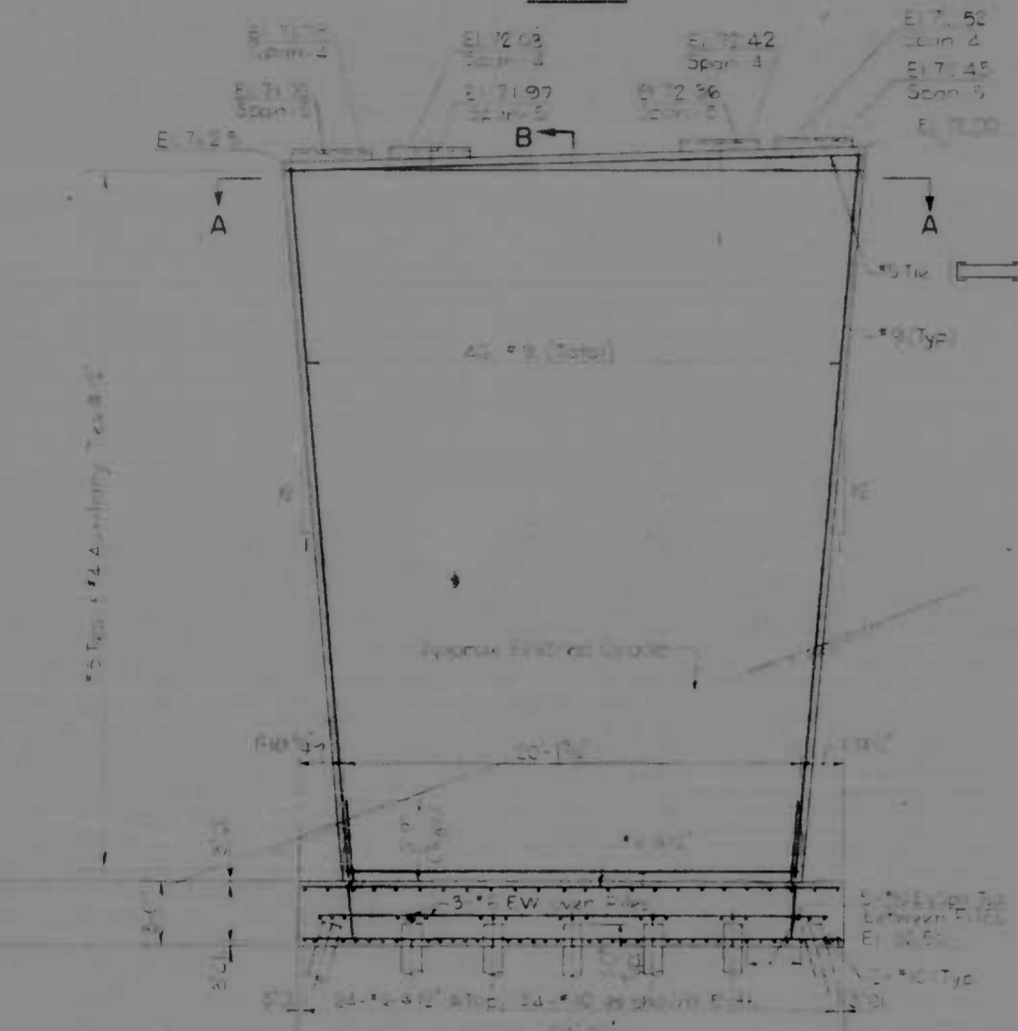
SECTION C-C



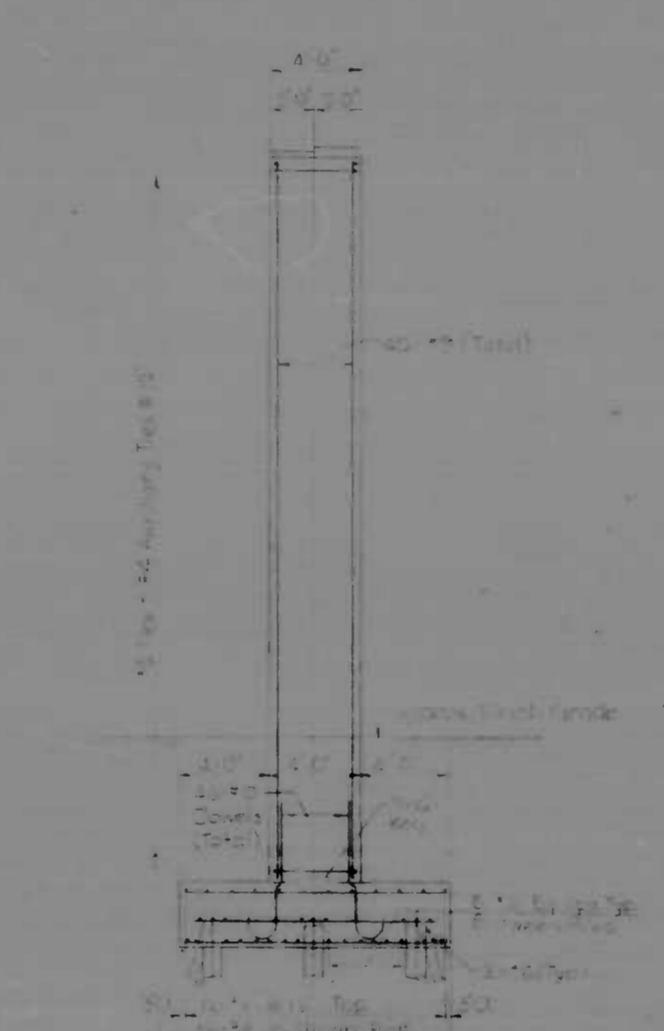
PLAN



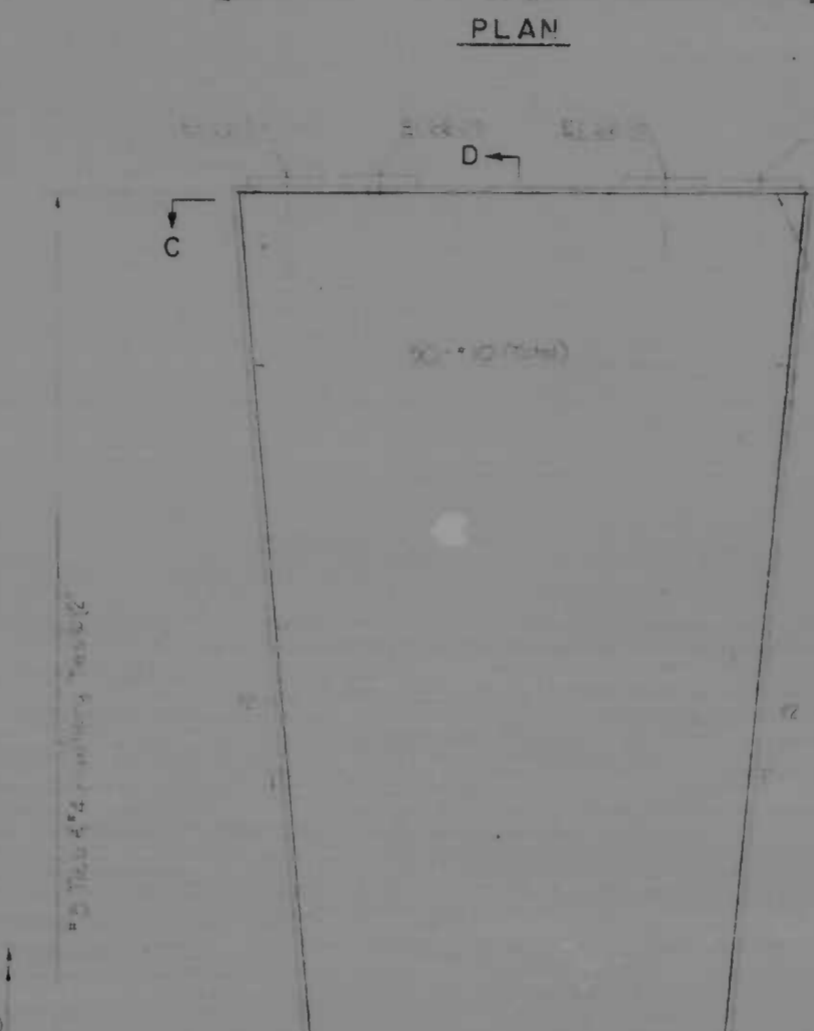
FOOTING PLAN PIER E-5



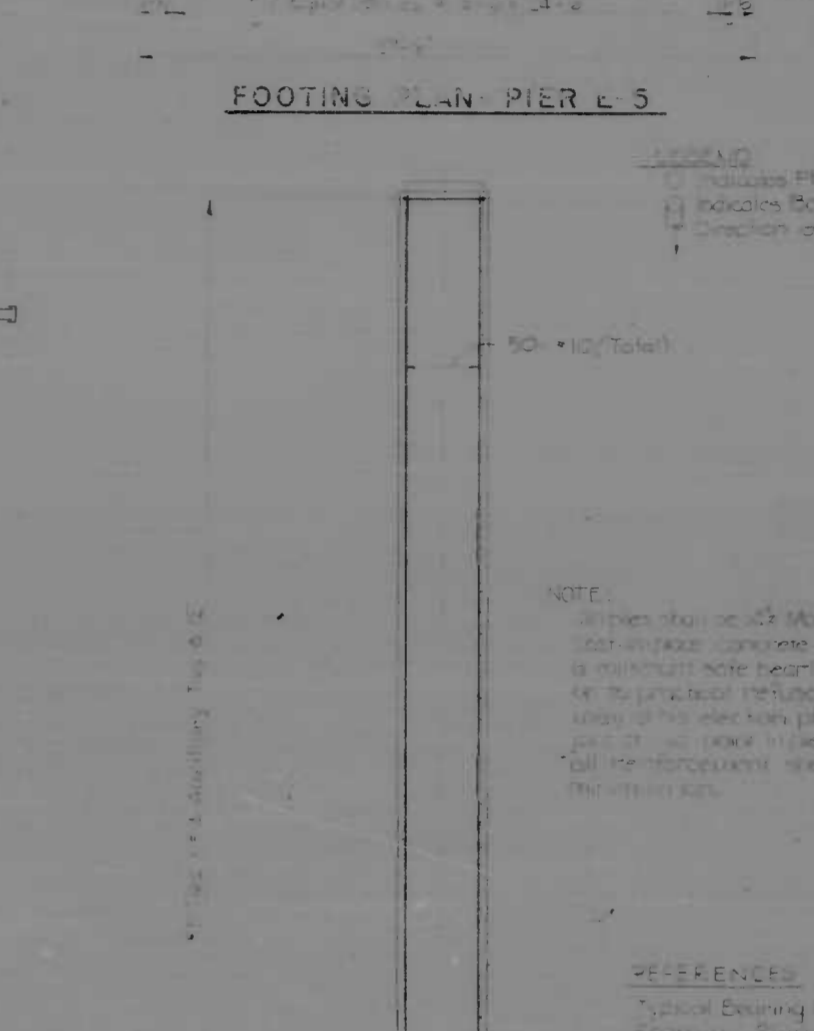
ELEVATION PIER E-4



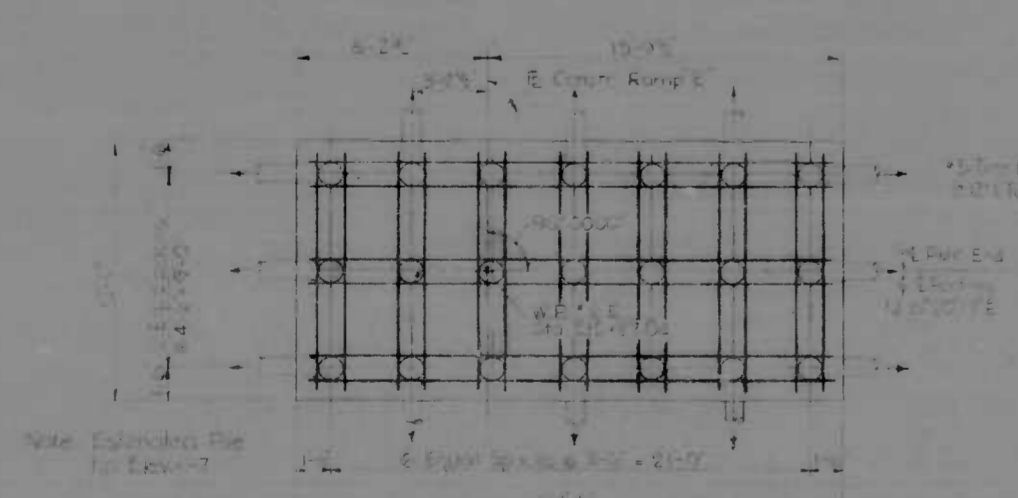
SECTION B-B



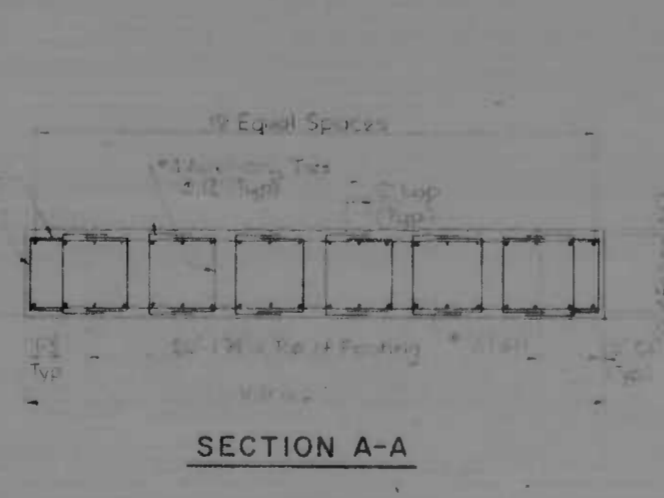
ELEVATION PIER E-5



SECTION D-D



FOOTING PLAN PIER E-4



SECTION A-A

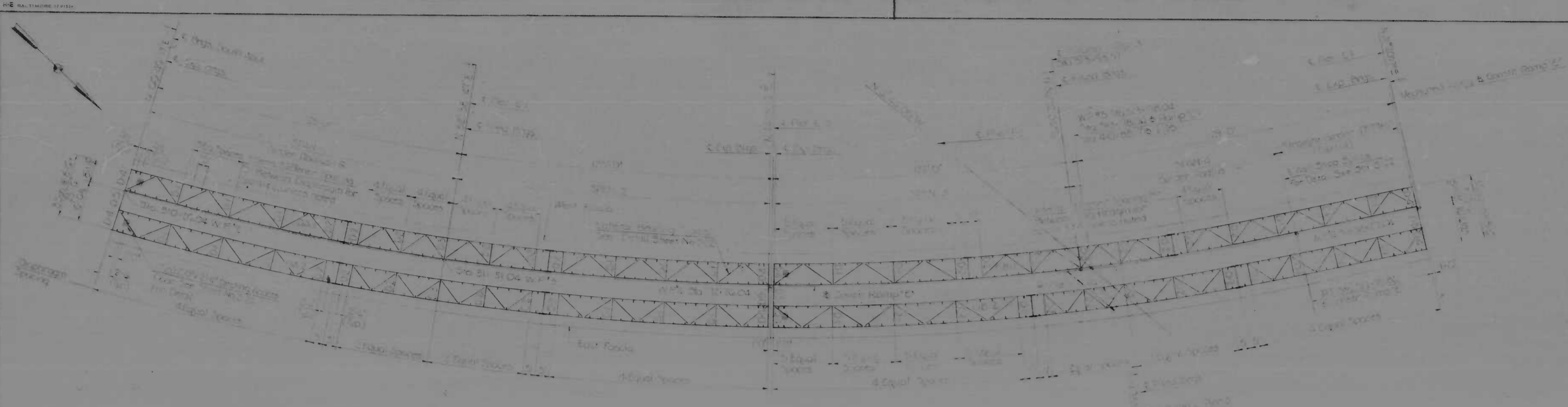
NOTE:
 All piers shall be cast Monorobe Grade 5
 concrete with a minimum bearing value of 60 tons
 per sq. ft. The piers shall be cast in place
 using a 1/2\"/>

REFERENCES SHEET NO.

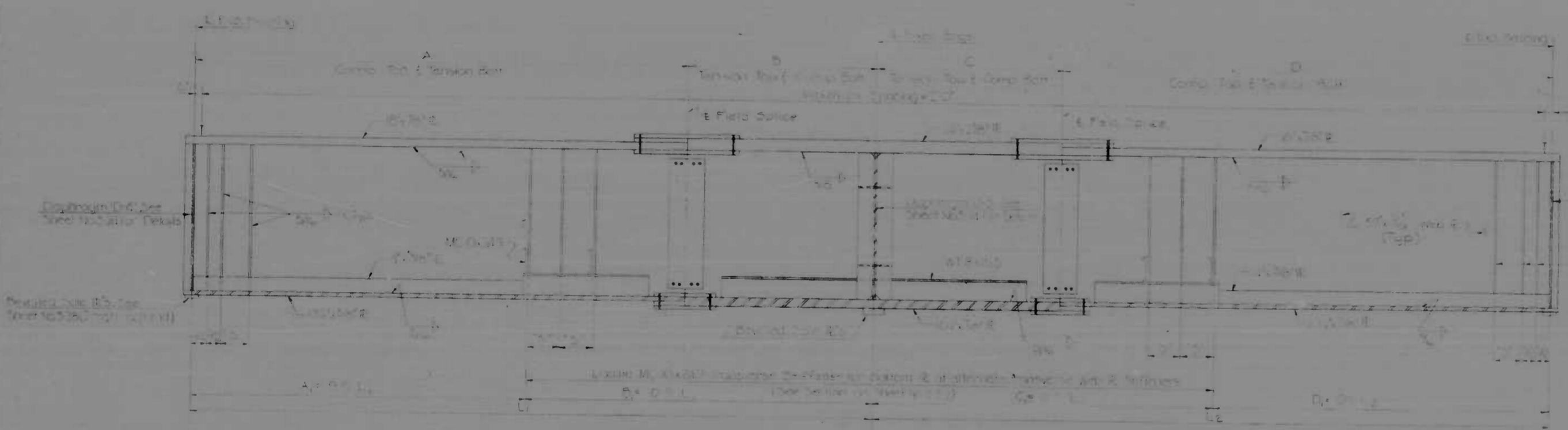
Typical Bearing Pier Details	S-19
Forming Pier 4	S-21
Forming Pier 11	S-22
Forming Pier 12	S-23
Pier Details	S-24

REVISIONS	CONSULTANT KENDERLE, 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 DIVISION FOR BALTIMORE CITY	
		1-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95 AND B&O R.R. PIERS E-4 & E-5 AND DETAILS		DRAWN BY R.V.P. TRACED BY R.V.P. F.A.P. NO. 1-95-4(36)36 C.B.E. NO. BC 246 33 015 BALTO. CITY NO. 1995	DIS. BY K.S.J. & C.Y.T. CHK. BY F.F.M.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95 4(36)36	S-21	(92) S-55



FRAMING PLAN



TYPICAL LONGITUDINAL SECTION OF GIRDER

NOTES:
 All provisions designed compatible and therefore, there shall be no temporary intermediate supports while concrete is being placed.
 All structural steel shall conform to ASTM Designation A572.
 All anchor bolts shall be hot dipped galvanized.
 All drawings shall be read in conjunction with the specifications.

REFERENCES	SHEET NO.
General Notes	5-11
Structural Steel	5-22
Concrete	5-23
Formwork	5-24
Construction Details	5-25
Foundation	5-26
Bridge Deck	5-27
Expansion Joint Details	5-28
Deck Slab	5-29
Deck Slab Details	5-30
Deck Slab Details	5-31
Deck Slab Details	5-32

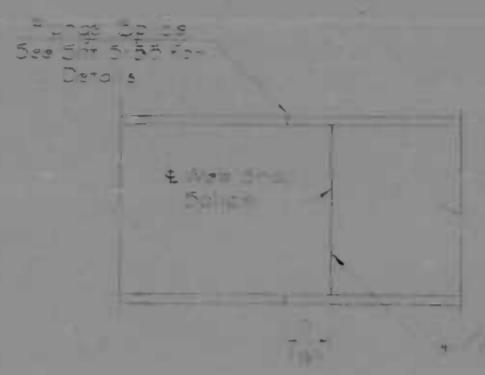
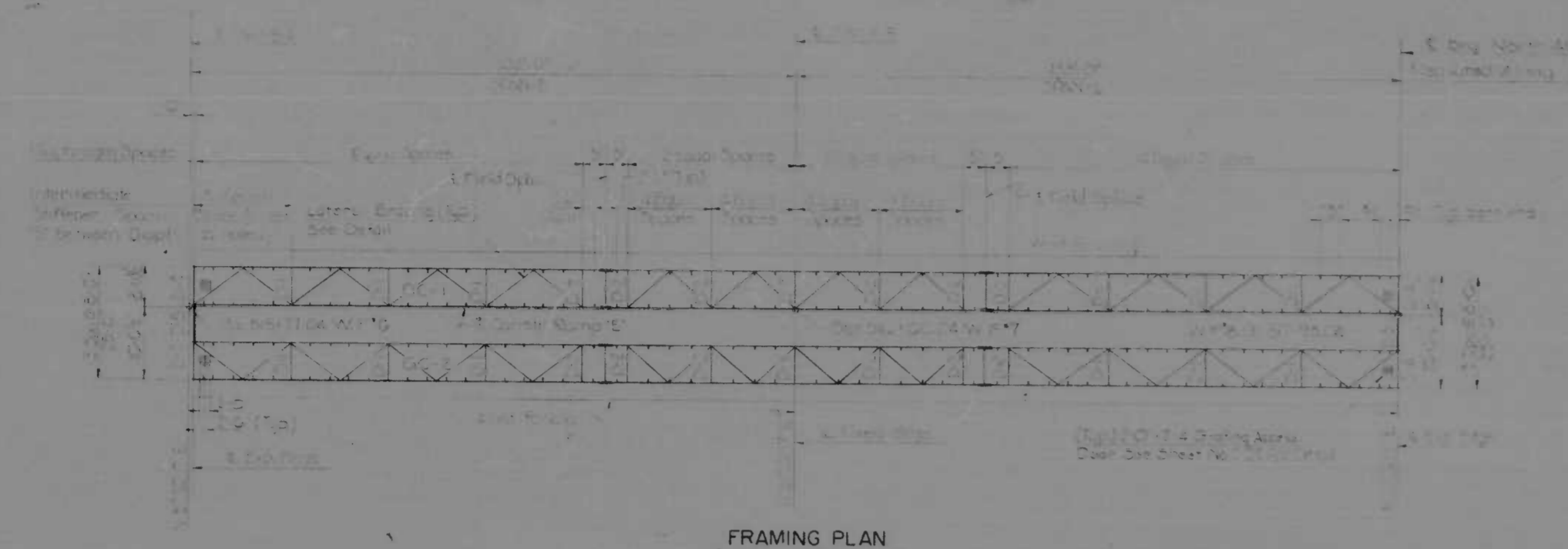
TABLE OF DIMENSIONS

Description	L1	L2	A	B	C	D	R
1A-1 Left Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1A-1 Right Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1A-2 Left Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1A-2 Right Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1B-1 Left Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1B-1 Right Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1B-2 Left Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1B-2 Right Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1C-1 Left Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1C-1 Right Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1C-2 Left Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00
1C-2 Right Web	121.84	121.84	25.00	25.00	25.00	25.00	25.00

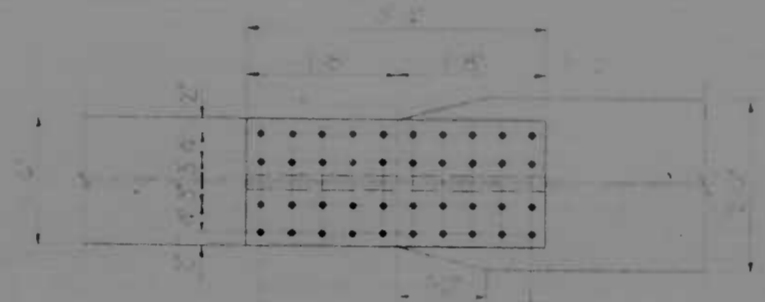
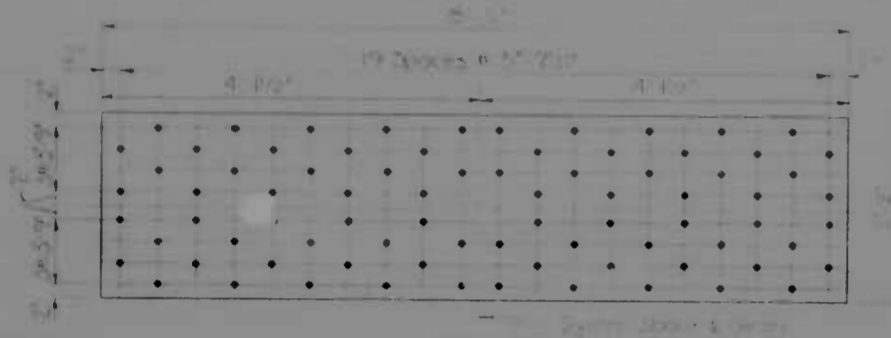
* DIMENSIONS ARE IN FEET AND INCHES UP TO GIRDER END.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KNOEHL, DENNER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95 AND B & O RR FRAMING PLAN - J	
		DRAWN BY J.R.W. TRACED BY J.R.W. F.A.P. NO. 1-95-4(36)36 S.P.C. NO. BC 246-33-815 BALTO. CITY NO. 1995	DES. BY C.D.P. CHK. BY F.F.M. SHEET NO. (92) S-21 of S-55

FED. ROAD DIST. NO.	STATE	PROJ. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4 (36)36	S-22	92

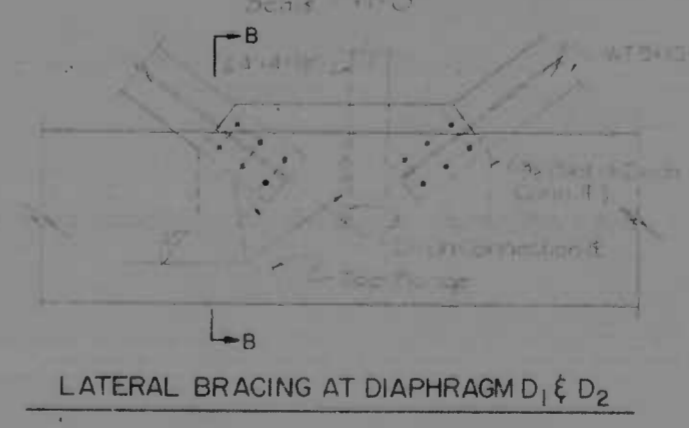
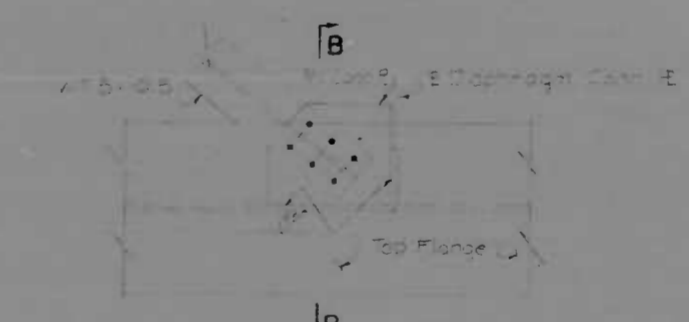
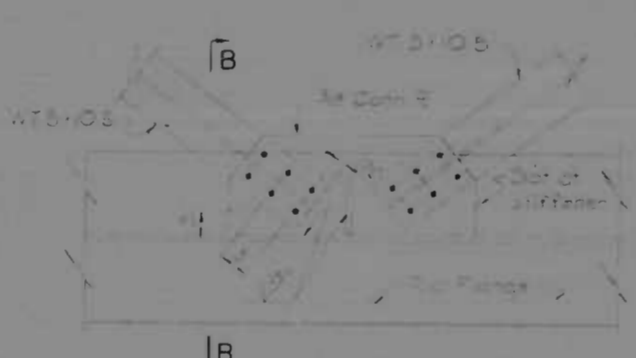
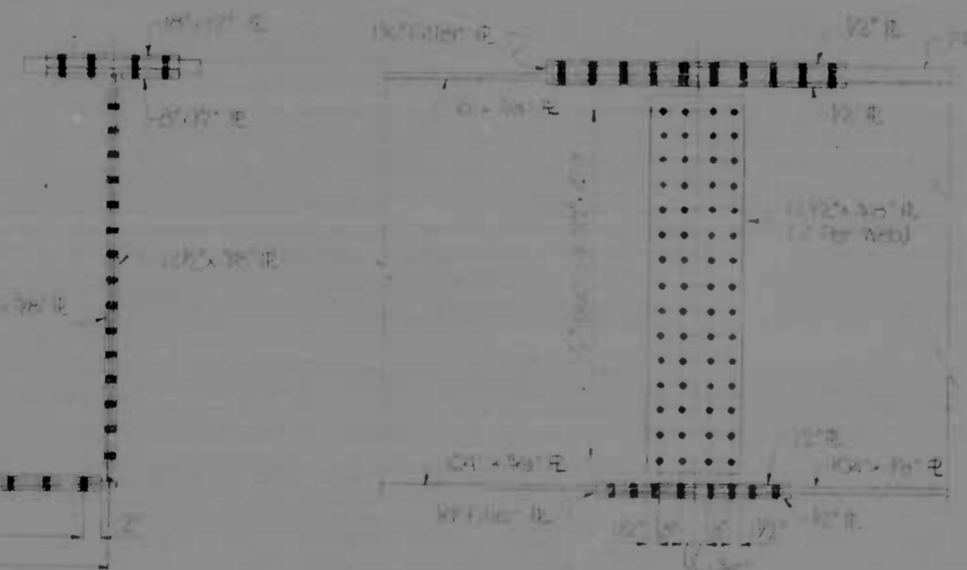
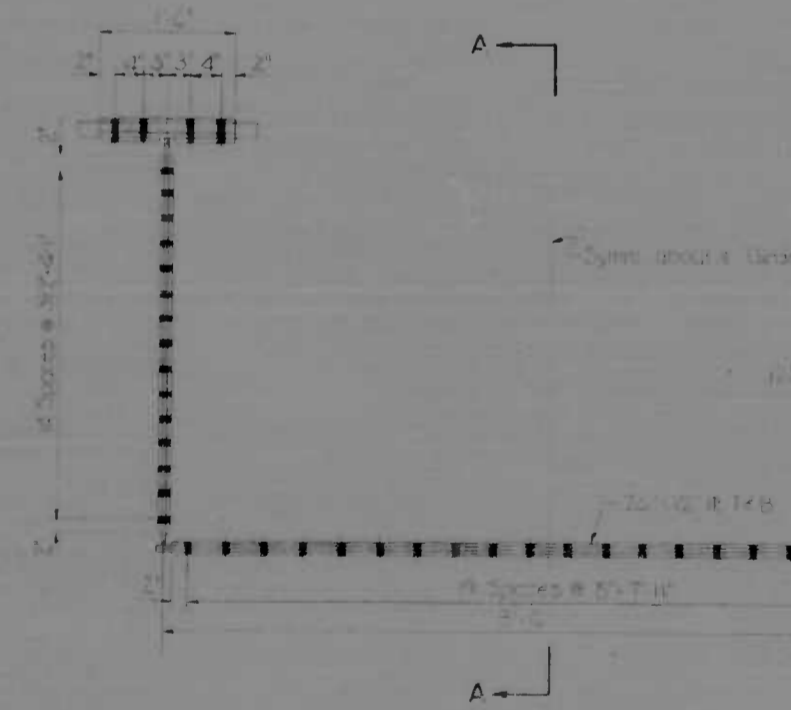


Note: For details of AWS joint designation refer to AWS D1.1 or D5.1. E thickness of fillet welds shown are not dimensioned and welding is shielded metal arc welding. If shielded metal arc welding is used refer to AWS D1.1 or D5.1 for appropriate designation.



Note: For Lengths A, B, C & D See Sheet No. 21

Note: Use 1/2" High Strength Bolts for lateral bracing connections.

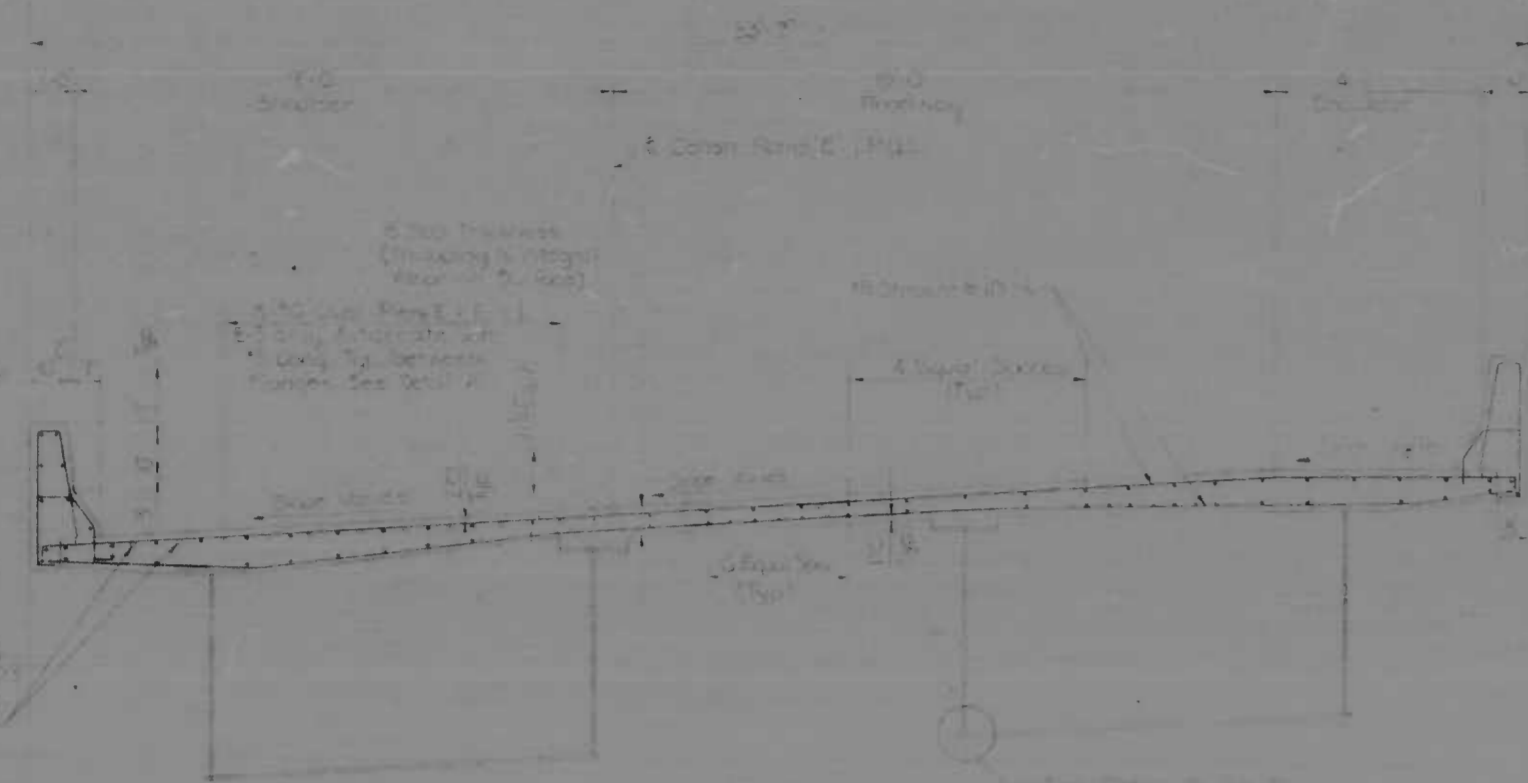


REFERENCED	SHEET NO.
Framing Plan & Elevation	S-1
Framing Plan I	S-2
Typical Deck Section	S-3
Diaphragm Detail	S-4
Expansion Joint Detail	S-5
Deck & Girders	S-6
Superstructure Deck	S-7
Shear Connector Detail	S-8

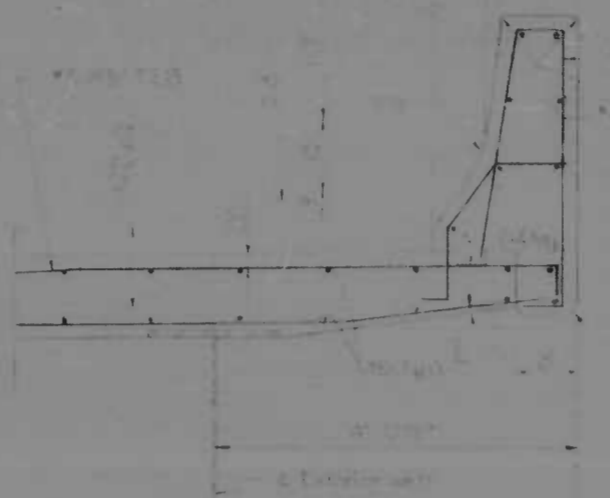
TYPICAL FIELD SPLICE DETAILS
Scale: 1/8" = 1'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOERLE, BENDER, STONE & ASSOC., I AND MATZ, ENLBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	DRAWN BY: J.R.W. TRACED BY: J.R.W. F.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: 90246-33-B5 BALTO. CITY NO.: 1995
		DES. BY: C.D.P. CHK. BY: F.F.M. SHEET NO. (92) S-22 OF S-55

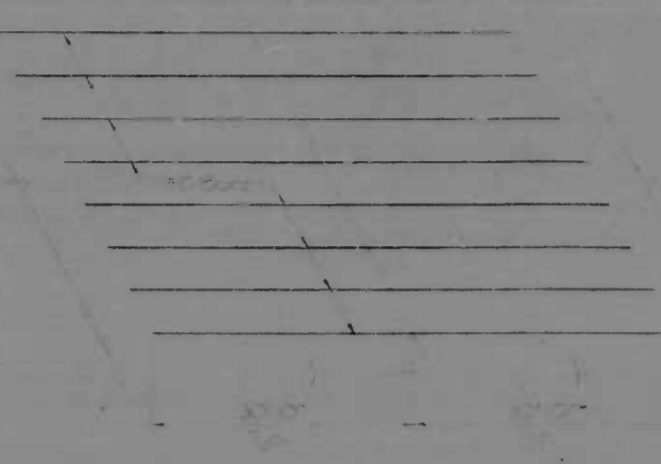
REV. NO.	DATE	BY	CHK.	SHEET NO.	TOTAL SHEETS
2	MD 195-4(36)36			S-23	(92)



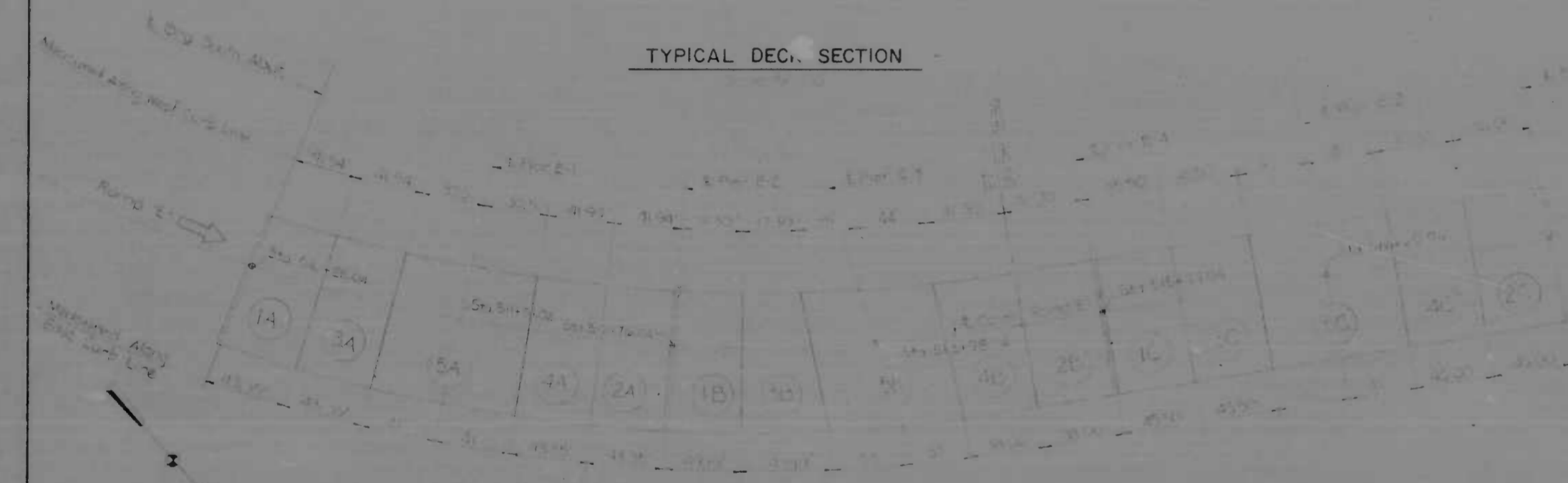
TYPICAL DECK SECTION



PARAPET DETAIL



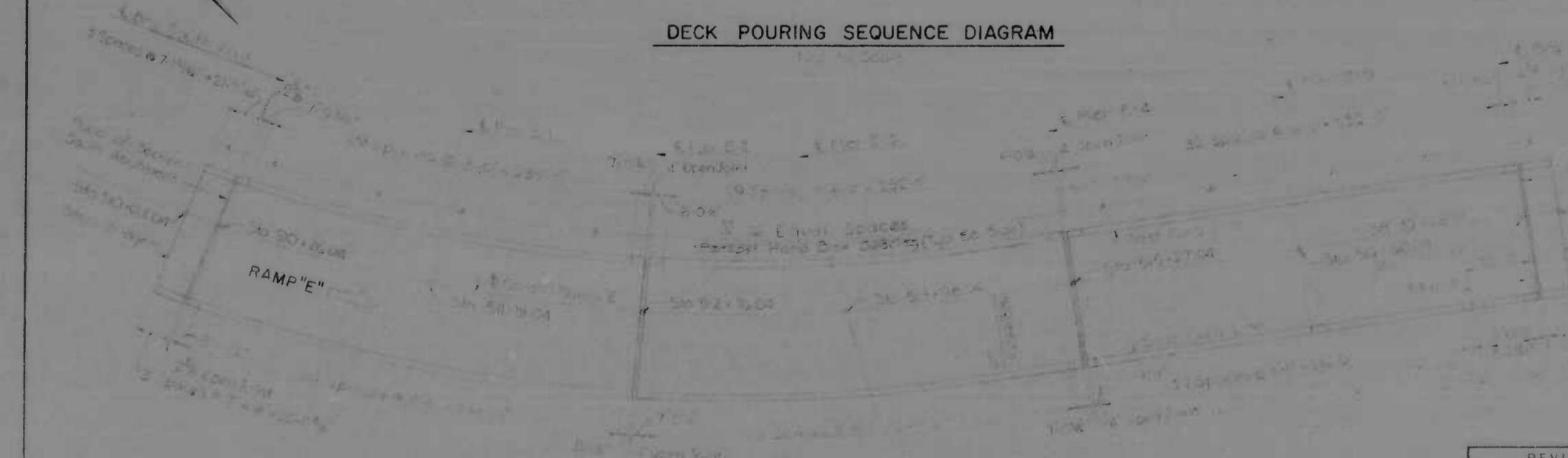
DETAIL "A"



DECK POURING SEQUENCE DIAGRAM



DETAIL "B"



PARAPET CONTRACTION JOINT SPACING

Notes:

1. Reinforcing steel for the deck shall be placed in accordance with the details shown between points 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

REFERENCES SHEET NO.

Forming, Class I _____

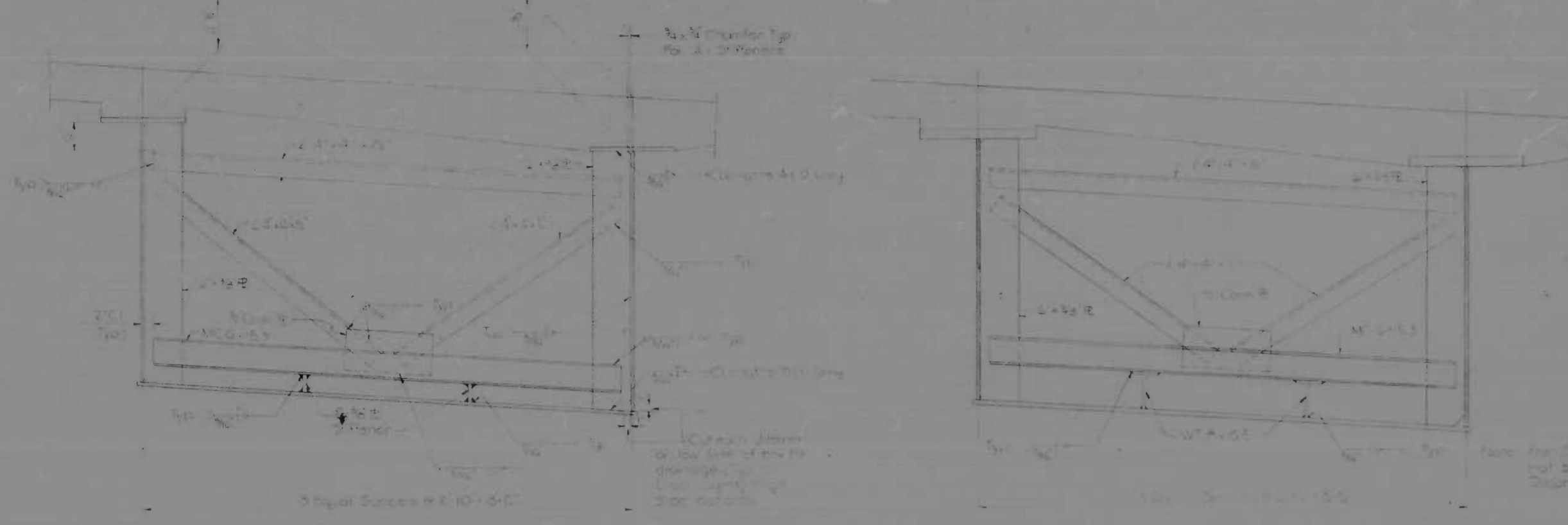
Forming, Class II _____

Superstructure Details _____

Parapet Details _____

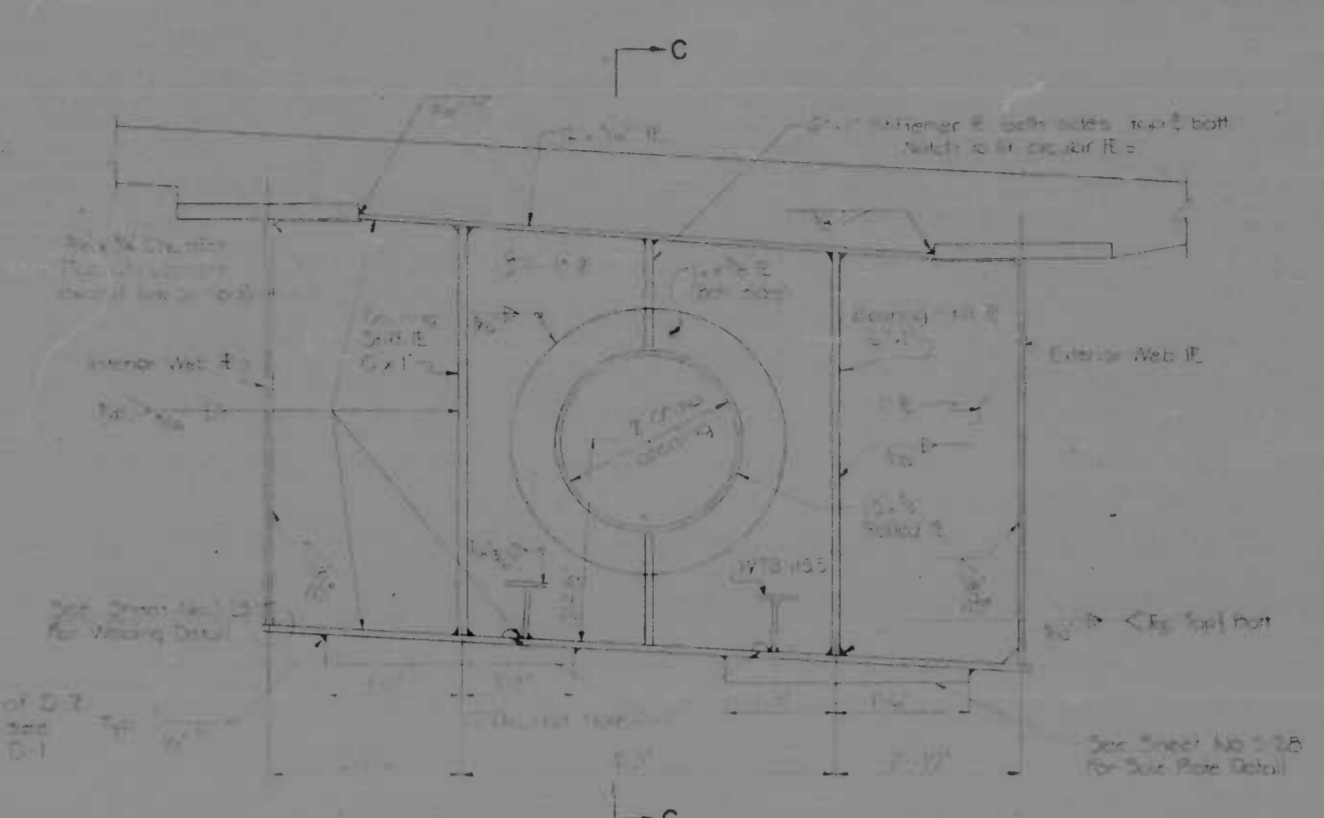
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOXLEE, WOODRUFF, STONE & ASSOC., INC. AND HATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 441 B CALVERT STREET BALTIMORE, MARYLAND 21202	DRAWN BY: M S F CHECKED BY: M S F DESIGNED BY: CDP CHECKED BY: FFM
		F.P. NO.: 195-4(36)36 S.R.C. NO.: BC 246-33-815 SCALE: As Shown DATE: _____ BALD CITY NO.: 1995
		SHEET NO. (92) S-23 OF S-55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	5-24	5-55

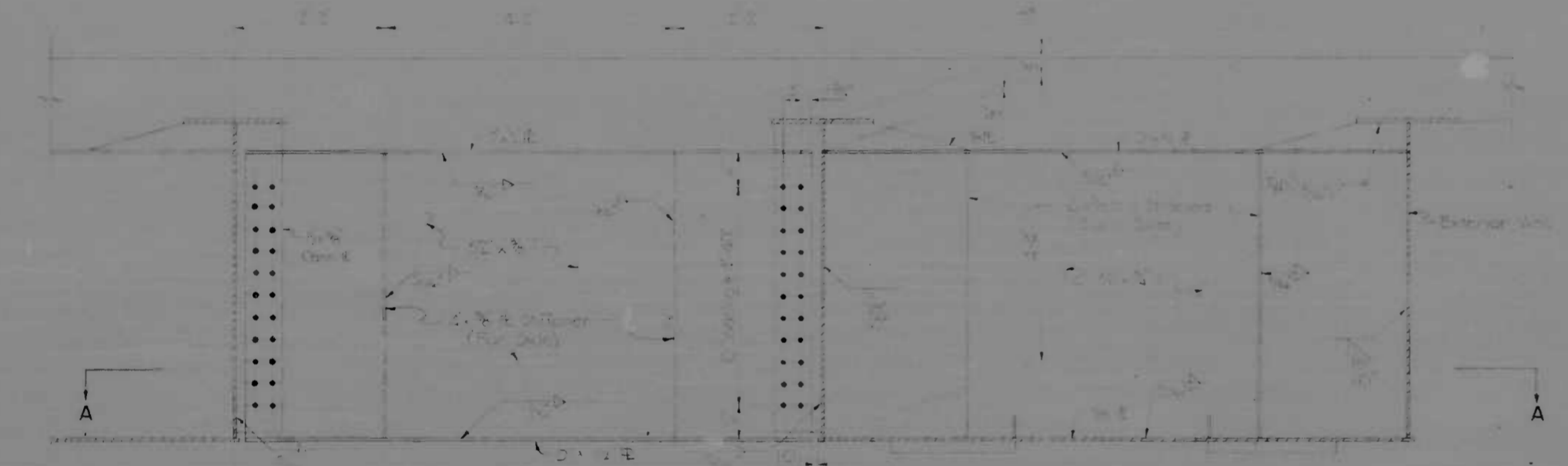


DIAPHRAGM D-1

DIAPHRAGM D-2

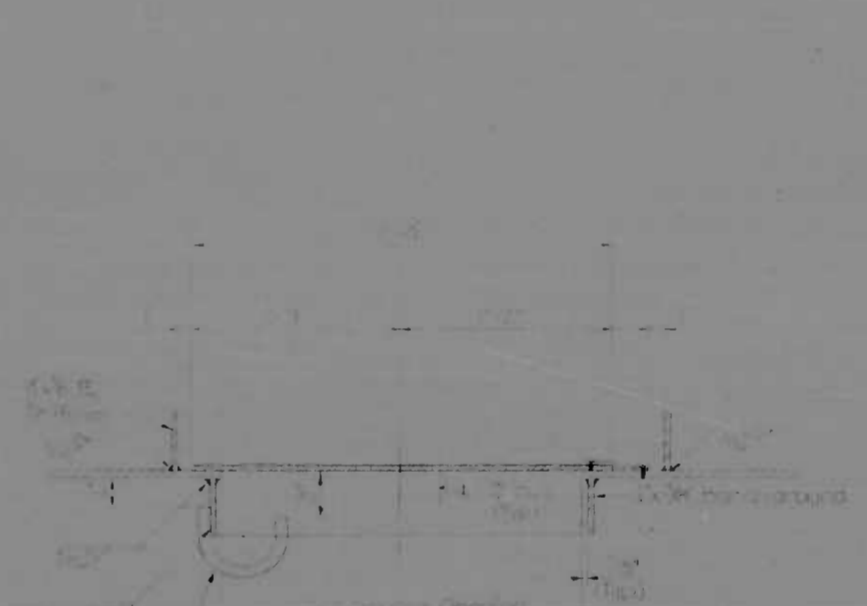


DIAPHRAGM D-3

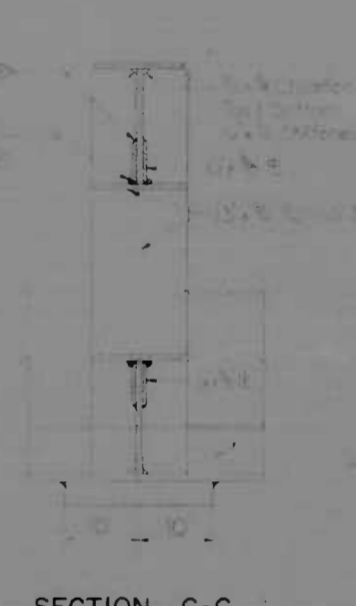


DIAPHRAGM D-5

DIAPHRAGM D-4

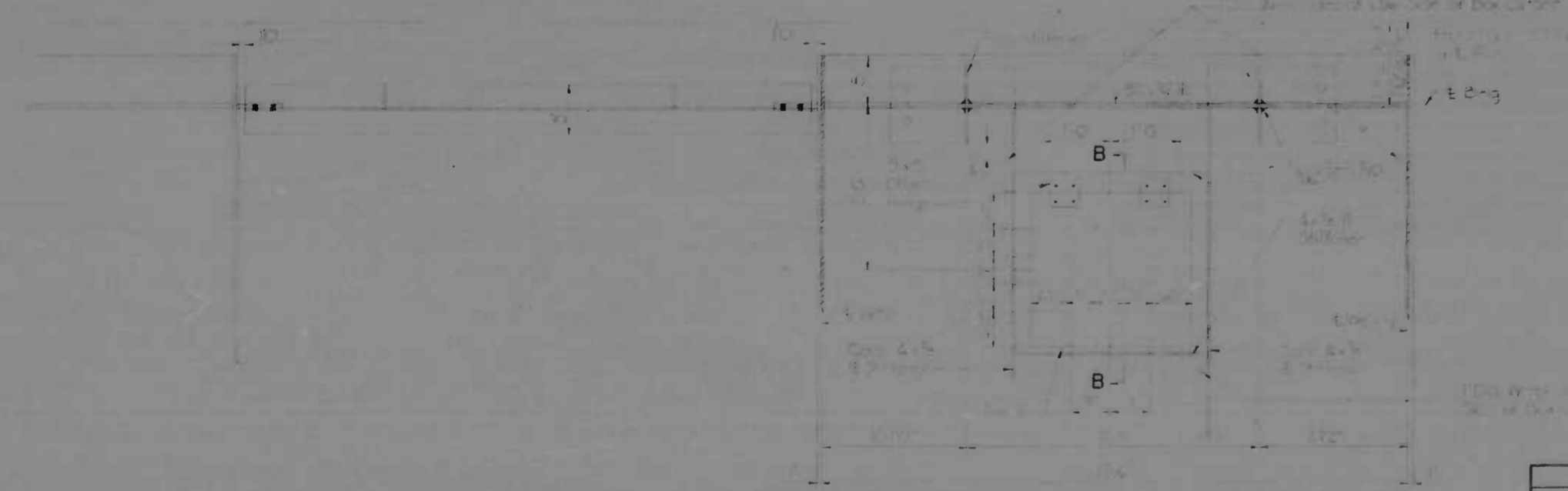


SECTION B-B

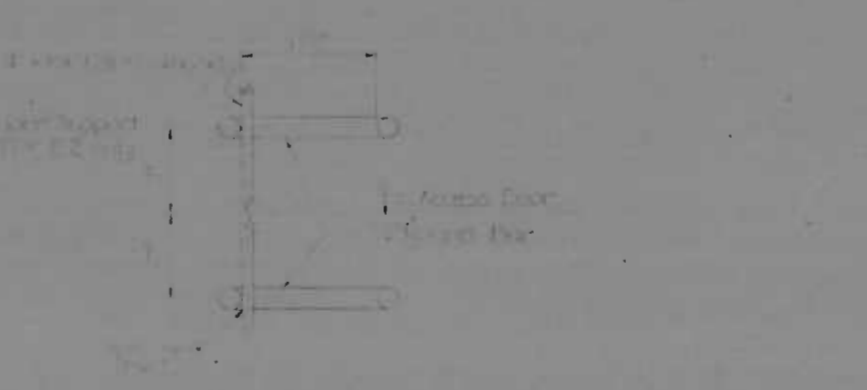


SECTION C-C

Note: Connections as shown with reinforcement through both (Custom Type)



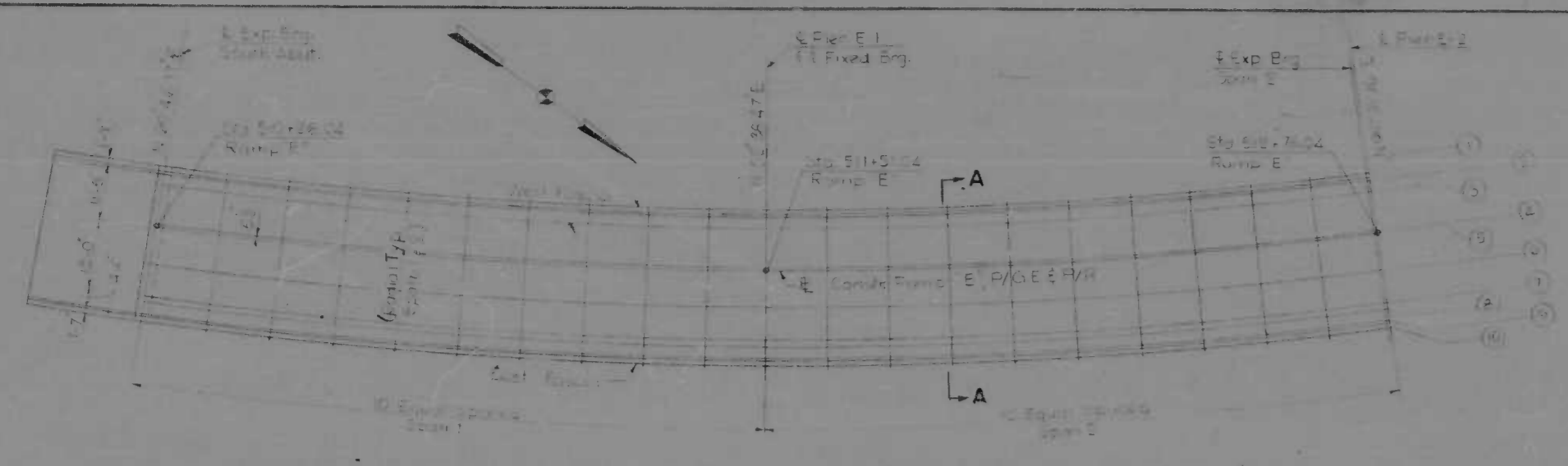
SECTION A-A



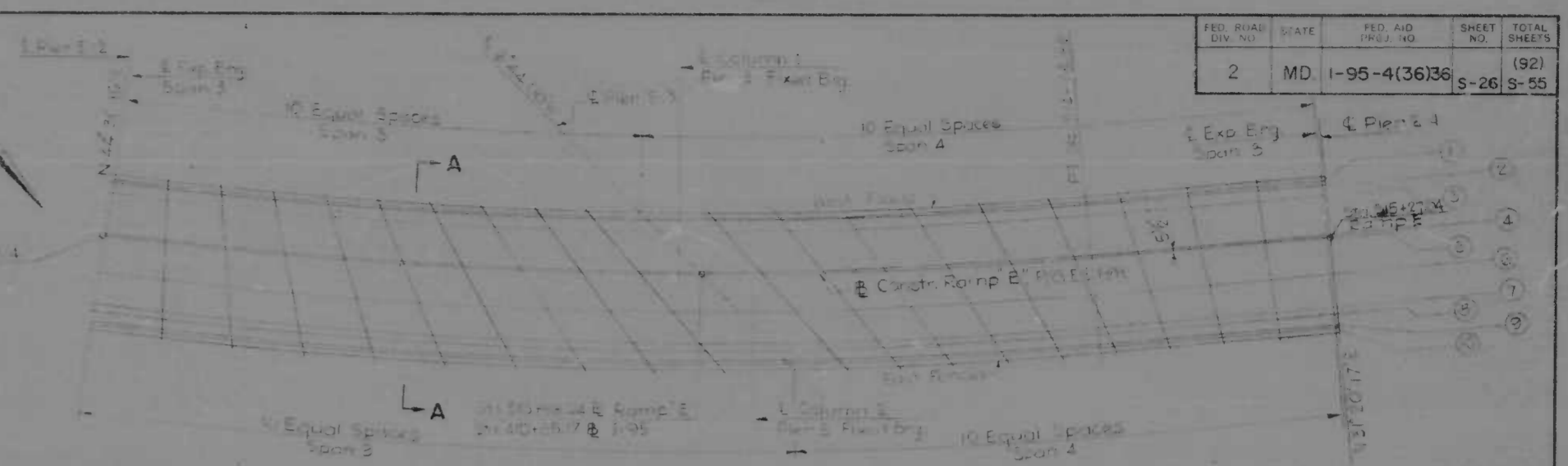
LADDER SUPPORT DETAIL

REVISIONS	DATE	BY	DESCRIPTION

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KINDERL, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 411 K CALVERT STREET BALTIMORE, MARYLAND 21202	I-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95, AND B & O R.R. DIAPHRAGM DETAILS	DRAWN BY: F W & M S F TRACED BY: E W B M S F F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO.: 1995
		DESIGN BY: C D P CHECK BY: F F M	SHEET NO.: 5-24 OF 5-55

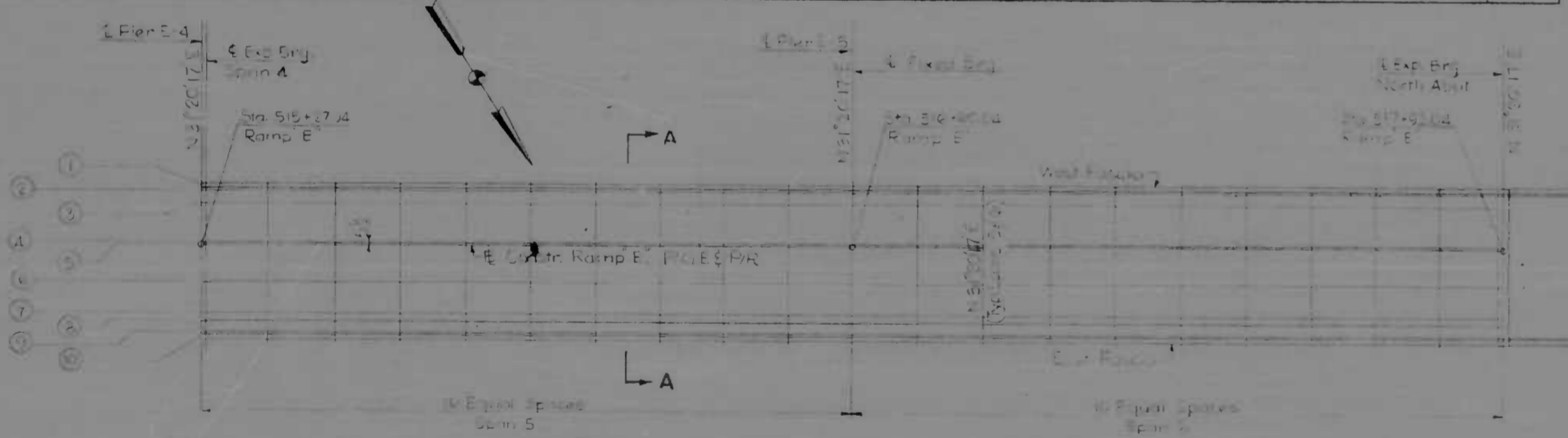


SPAN 1 & SPAN 2 - KEY PLAN
1"=20'-0"



SPAN 3 & SPAN 4 - KEY PLAN
1"=20'-0"

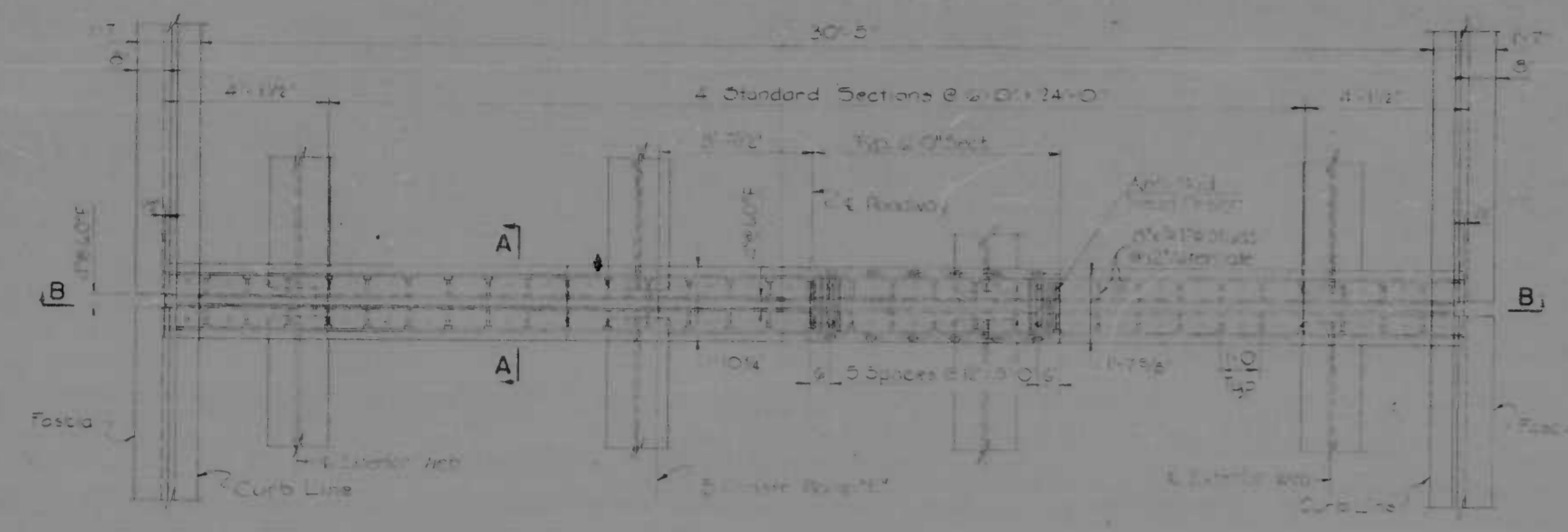
DESCRIPTION	STATION	SPAN 1										SPAN 2										E. BRG. PIER E-2																																	
		510+0.00	510+10.00	510+20.00	510+30.00	510+40.00	510+50.00	510+60.00	510+70.00	510+80.00	510+90.00	511+00.00	511+10.00	511+20.00	511+30.00	511+40.00	511+50.00	511+60.00	511+70.00	511+80.00	511+90.00																																		
1 WEST KEY LINE	75.00	76.10	76.20	76.30	76.40	76.50	76.60	76.70	76.80	76.90	77.00	77.10	77.20	77.30	77.40	77.50	77.60	77.70	77.80	77.90	78.00	78.10	78.20	78.30	78.40	78.50	78.60	78.70	78.80	78.90	79.00	79.10	79.20	79.30	79.40	79.50	79.60	79.70	79.80	79.90	80.00														
2 WEST CURB LINE	75.14	76.24	76.34	76.44	76.54	76.64	76.74	76.84	76.94	77.04	77.14	77.24	77.34	77.44	77.54	77.64	77.74	77.84	77.94	78.04	78.14	78.24	78.34	78.44	78.54	78.64	78.74	78.84	78.94	79.04	79.14	79.24	79.34	79.44	79.54	79.64	79.74	79.84	79.94	80.04															
3 GIRDER GA-1L	75.59	76.69	76.79	76.89	76.99	77.09	77.19	77.29	77.39	77.49	77.59	77.69	77.79	77.89	77.99	78.09	78.19	78.29	78.39	78.49	78.59	78.69	78.79	78.89	78.99	79.09	79.19	79.29	79.39	79.49	79.59	79.69	79.79	79.89	79.99	80.09	80.19	80.29	80.39	80.49	80.59	80.69	80.79	80.89	80.99										
4 GIRDER GA-1R	76.40	77.50	77.60	77.70	77.80	77.90	78.00	78.10	78.20	78.30	78.40	78.50	78.60	78.70	78.80	78.90	79.00	79.10	79.20	79.30	79.40	79.50	79.60	79.70	79.80	79.90	80.00	80.10	80.20	80.30	80.40	80.50	80.60	80.70	80.80	80.90	81.00	81.10	81.20	81.30	81.40	81.50	81.60	81.70	81.80	81.90	82.00								
5 P/G E, P/R & CONSTR	76.45	77.55	77.65	77.75	77.85	77.95	78.05	78.15	78.25	78.35	78.45	78.55	78.65	78.75	78.85	78.95	79.05	79.15	79.25	79.35	79.45	79.55	79.65	79.75	79.85	79.95	80.05	80.15	80.25	80.35	80.45	80.55	80.65	80.75	80.85	80.95	81.05	81.15	81.25	81.35	81.45	81.55	81.65	81.75	81.85	81.95	82.05								
6 GIRDCP GA-2L	76.91	78.01	78.11	78.21	78.31	78.41	78.51	78.61	78.71	78.81	78.91	79.01	79.11	79.21	79.31	79.41	79.51	79.61	79.71	79.81	79.91	80.01	80.11	80.21	80.31	80.41	80.51	80.61	80.71	80.81	80.91	81.01	81.11	81.21	81.31	81.41	81.51	81.61	81.71	81.81	81.91	82.01	82.11	82.21	82.31	82.41	82.51	82.61	82.71	82.81	82.91	83.01			
7 EDGE OF SHOULDER GIRDER GA-2R	77.33	77.79	77.89	77.99	78.09	78.19	78.29	78.39	78.49	78.59	78.69	78.79	78.89	78.99	79.09	79.19	79.29	79.39	79.49	79.59	79.69	79.79	79.89	79.99	80.09	80.19	80.29	80.39	80.49	80.59	80.69	80.79	80.89	80.99	81.09	81.19	81.29	81.39	81.49	81.59	81.69	81.79	81.89	81.99	82.09	82.19	82.29	82.39	82.49	82.59	82.69	82.79	82.89	82.99	83.09
8 EAST CURB LINE	77.55	77.92	78.02	78.12	78.22	78.32	78.42	78.52	78.62	78.72	78.82	78.92	79.02	79.12	79.22	79.32	79.42	79.52	79.62	79.72	79.82	79.92	80.02	80.12	80.22	80.32	80.42	80.52	80.62	80.72	80.82	80.92	81.02	81.12	81.22	81.32	81.42	81.52	81.62	81.72	81.82	81.92	82.02	82.12	82.22	82.32	82.42	82.52	82.62	82.72	82.82	82.92	83.02		
9 EAST KEY LINE	77.59	77.96	78.06	78.16	78.26	78.36	78.46	78.56	78.66	78.76	78.86	78.96	79.06	79.16	79.26	79.36	79.46	79.56	79.66	79.76	79.86	79.96	80.06	80.16	80.26	80.36	80.46	80.56	80.66	80.76	80.86	80.96	81.06	81.16	81.26	81.36	81.46	81.56	81.66	81.76	81.86	81.96	82.06	82.16	82.26	82.36	82.46	82.56	82.66	82.76	82.86	82.96	83.06		
10 EAST KEY LINE	77.41	77.77	77.87	77.97	78.07	78.17	78.27	78.37	78.47	78.57	78.67	78.77	78.87	78.97	79.07	79.17	79.27	79.37	79.47	79.57	79.67	79.77	79.87	79.97	80.07	80.17	80.27	80.37	80.47	80.57	80.67	80.77	80.87	80.97	81.07	81.17	81.27	81.37	81.47	81.57	81.67	81.77	81.87	81.97	82.07	82.17	82.27	82.37	82.47	82.57	82.67	82.77	82.87	82.97	83.07



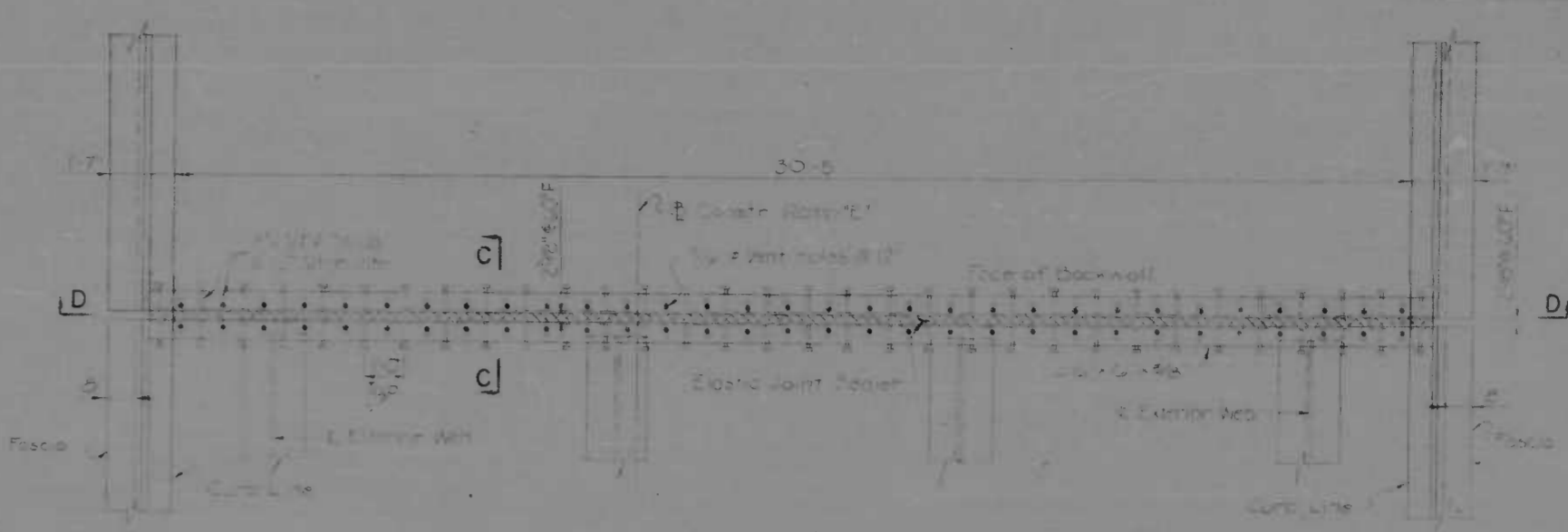
SPAN 5 & SPAN 6 - KEY PLAN
1"=20'-0"

DESCRIPTION	STATION	SPAN 5										SPAN 6										E. BRG. N ABUT																																																																																																																																																																													
		515+0.00	515+10.00	515+20.00	515+30.00	515+40.00	515+50.00	515+60.00	515+70.00	515+80.00	515+90.00	516+0.00	516+10.00	516+20.00	516+30.00	516+40.00	516+50.00	516+60.00	516+70.00	516+80.00	516+90.00																																																																																																																																																																														
1 WEST KEY LINE	77.57	77.15	76.74	76.34	75.94	75.54	75.14	74.74	74.34	73.94	73.54	73.14	72.74	72.34	71.94	71.54	71.14	70.74	70.34	69.94	69.54	69.14	68.74	68.34	67.94	67.54	67.14	66.74	66.34	65.94	65.54	65.14	64.74	64.34	63.94	63.54	63.14	62.74	62.34	61.94	61.54	61.14	60.74	60.34	59.94	59.54	59.14	58.74	58.34	57.94	57.54	57.14	56.74	56.34	55.94	55.54	55.14	54.74	54.34	53.94	53.54	53.14	52.74	52.34	51.94	51.54	51.14	50.74	50.34	49.94	49.54	49.14	48.74	48.34	47.94	47.54	47.14	46.74	46.34	45.94	45.54	45.14	44.74	44.34	43.94	43.54	43.14	42.74	42.34	41.94	41.54	41.14	40.74	40.34	39.94	39.54	39.14	38.74	38.34	37.94	37.54	37.14	36.74	36.34	35.94	35.54	35.14	34.74	34.34	33.94	33.54	33.14	32.74	32.34	31.94	31.54	31.14	30.74	30.34	29.94	29.54	29.14	28.74	28.34	27.94	27.54	27.14	26.74	26.34	25.94	25.54	25.14	24.74	24.34	23.94	23.54	23.14	22.74	22.34	21.94	21.54	21.14	20.74	20.34	19.94	19.54	19.14	18.74	18.34	17.94	17.54	17.14	16.74	16.34	15.94	15.54	15.14	14.74	14.34	13.94	13.54	13.14	12.74	12.34	11.94	11.54	11.14	10.74	10.34	9.94	9.54	9.14	8.74	8.34	7.94	7.54	7.14	6.74	6.34	5.94	5.54	5.14	4.74	4.34	3.94	3.54	3.14	2.74	2.34	1.94	1.54	1.14	0.74	0.34	0.00
2 WEST CURB LINE	77.71	77.29	76.88	76.48	76.08	75.68	75.28	74.88	74.48	74.08	73.68	73.28	72.88	72.48	72.08	71.68	71.28	70.88	70.48	70.08	69.68	69.28	68.88	68.48	68.08	67.68	67.28	66.88	66.48	66.08	65.68	65.28	64.88	64.48	64.08	63.68	63.28	62.88	62.48	62.08	61.68	61.28	60.88	60.48	60.08	59.68	59.28	58.88	58.48	58.08	57.68	57.28	56.88	56.48	56.08	55.68	55.28	54.88	54.48	54.08	53.68	53.28	52.88	52.48	52.08	51.68	51.28	50.88	50.48	50.08	49.68	49.28	48.88	48.48	48.08	47.68	47.28	46.88	46.48	46.08	45.68	45.28	44.88	44.48	44.08	43.68	43.28	42.88	42.48	42.08	41.68	41.28	40.88	40.48	40.08	39.68	39.28	38.88	38.48	38.08	37.68	37.28	36.88	36.48	36.08	35.68	35.28	34.88	34.48	34.08	33.68	33.28	32.88	32.48	32.08	31.68	31.28	30.88	30.48	30.08	29.68	29.28	28.88	28.48	28.08	27.68	27.28	26.88	26.48	26.08	25.68	25.28	24.88	24.48	24.08	23.68	23.28	22.88	22.48	22.08	21.68	21.28	20.88	20.48	20.08	19.68	19.28	18.88	18.48	18.08	17.68	17.28	16.88	16.48	16.08	15.68	15.28	14.88	14.48	14.08	13.68	13.28	12.88	12.48	12.08	11.68	11.28	10.88	10.48	10.08	9.68	9.28	8.88	8.48	8.08	7.68	7.28	6.88	6.48	6.08	5.68	5.28	4.88	4.48	4.08	3.68	3.28	2.88	2.48	2.08	1.68	1.28	0.88	0.48	0.00
3 GIRDER GC-1L	77.77	77.36	76.95	76.55	76.15	75.75	75.35	74.95	74.55	74.15	73.75	73.35	72.95	72.55	72.15	71.75	71.35	70.95	70.55	70.15	69.75	69.35	68.95	68.55	68.15	67.75	67.35	66.95	66.55	66.15	65.75	65.35	64.95	64.55	64.15	63.75	63.35	62.95	62.55	62.15	61.75	61.35	60.95	60.55	60.15	59.75	59.35	58.95	58.55	58.15	57.75	57.35	56.95	56.55	56.15	55.75	55.35	54.95	54.55	54.15	53.75	53.35	52.95	52.55	52.15	51.75	51.35	50.95	50.55	50.15	49.75	49.35	48.95	48.55	48.15	47.75	47.35	46.95	46.55	46.15	45.75	45.35	44.95	44.55	44.15	43.75	43.35	42.95	42.55	42.15	41.75	41.35	40.95	40.55	40.15	39.75	39.35	38.95	38.55	38.15	37.75	37.35	36.95	36.55	36.15	35.75	35.35	34.95	34.55	34.15	33.75	33.35	32.95	32.55	32.15	31.75	31.35	30.95	30.55	30.15	29.75	29.35	28.95	28.55	28.15	27.75	27.35	26.95	26.55	26.15	25.75	25.35	24.95	24.55	24.15	23.75	23.35	22.95	22.55	22.15	21.75	21.35	20.95	20.55	20.15	19.75	19.35	18.95	18.55	18.15	17.75	17.35	16.95	16.55	16.15	15.75	15.35	14.95	14.55	14.15	13.75	13.35	12.95	12.55	12.15	11.75	11.35	10.95	10.55	10.15	9.75	9.35	8.95	8.55	8.15	7.75	7.35	6.95																	

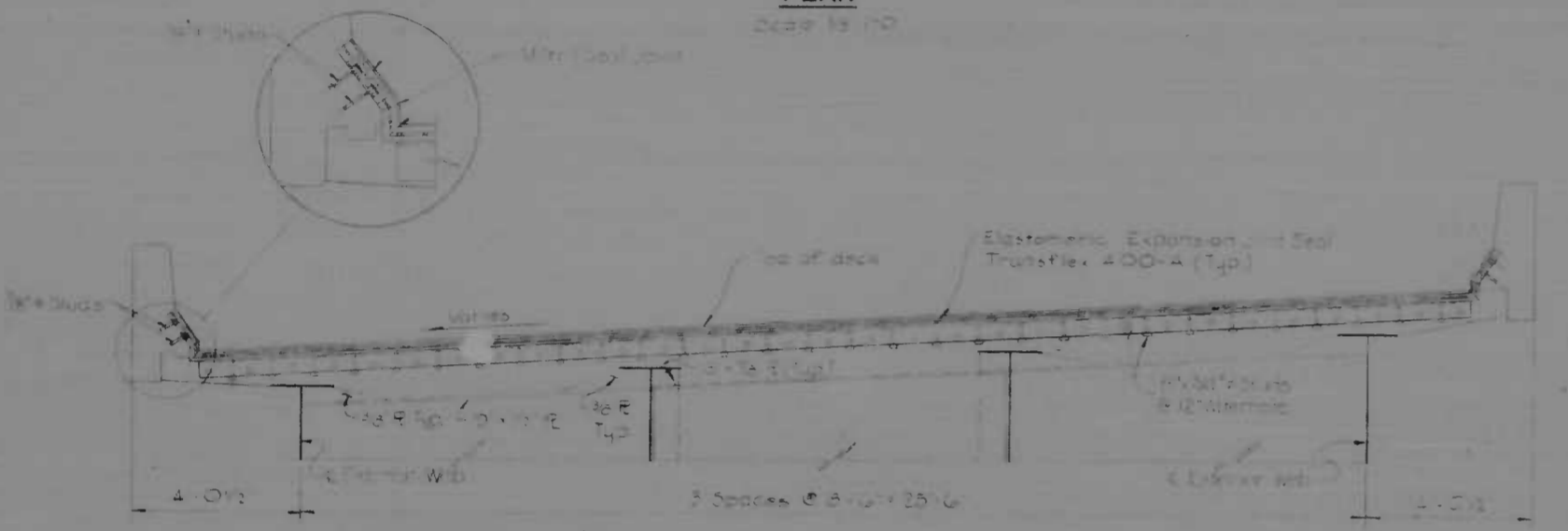
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(36)36	S-27	S-55



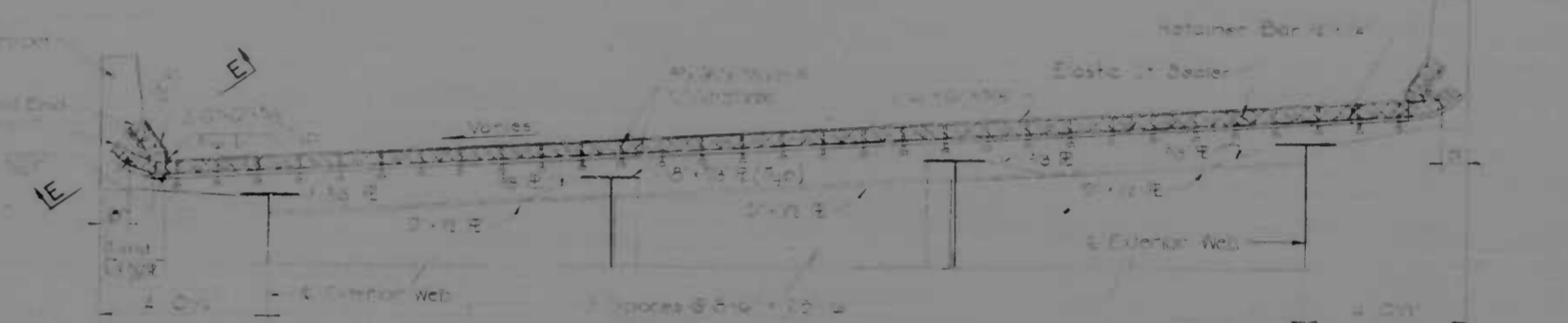
PLAN
Scale 1/4"=1'-0"



PLAN
Scale 1/4"=1'-0"



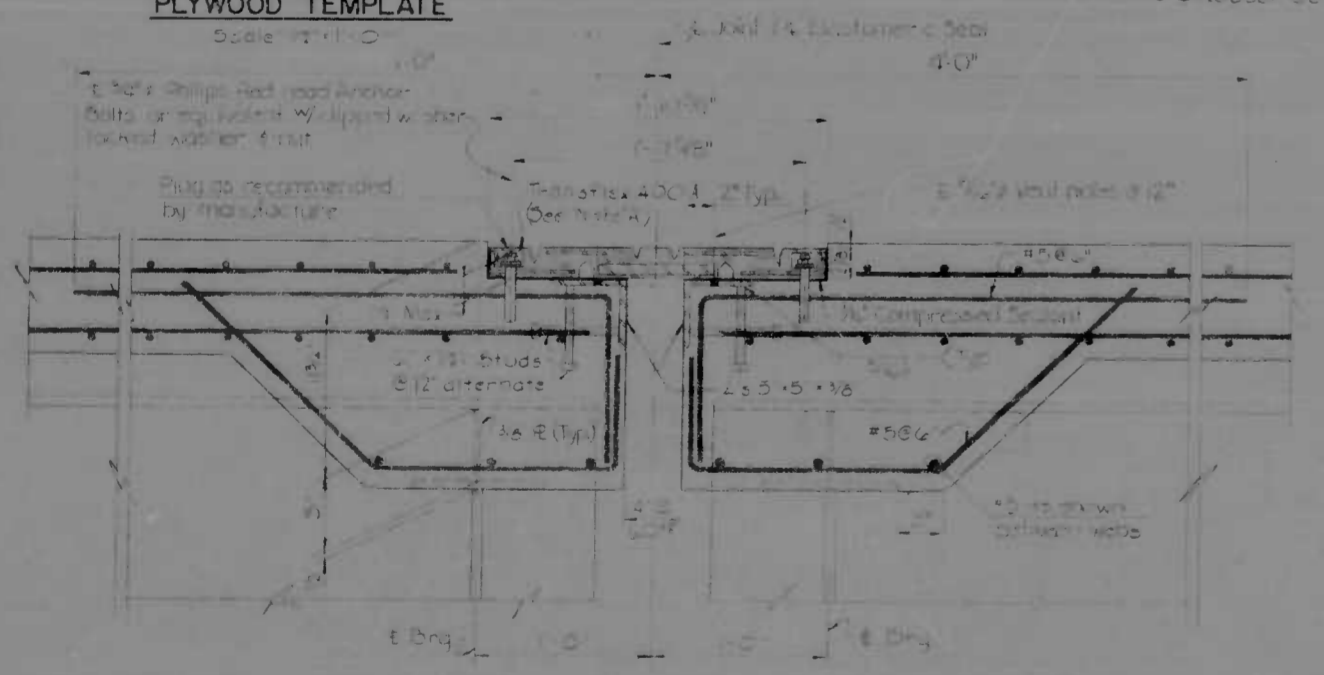
SECTION B-B
Scale 1/4"=1'-0"



SECTION D-D
Scale 1/4"=1'-0"

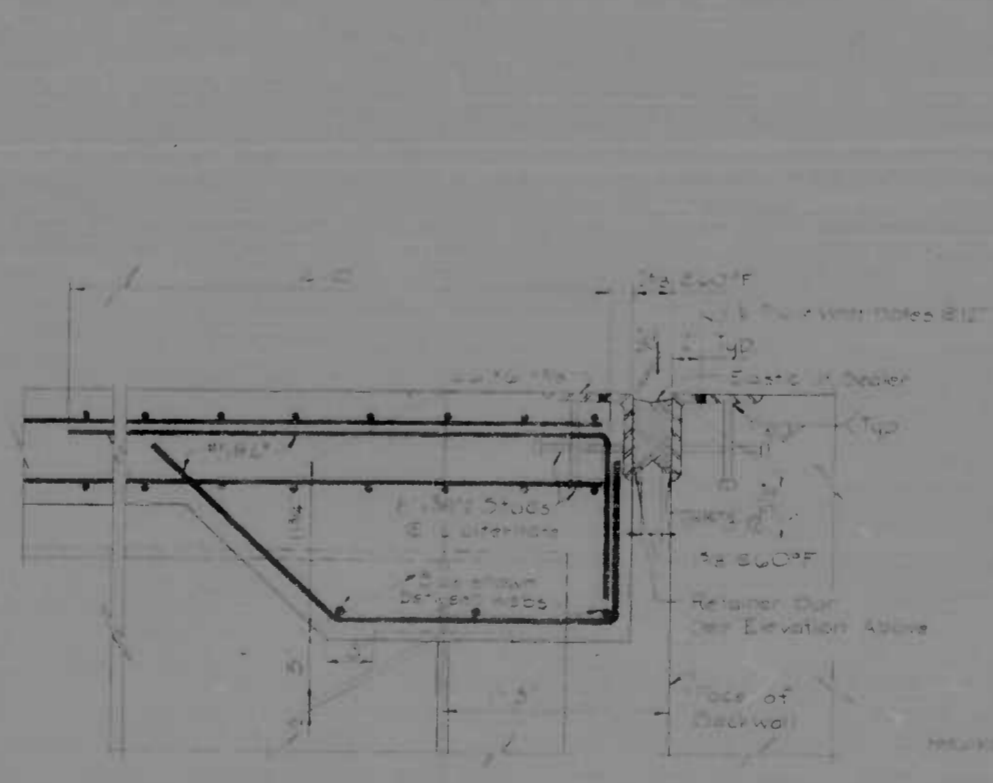


PLYWOOD TEMPLATE
Scale 1"=1'-0"

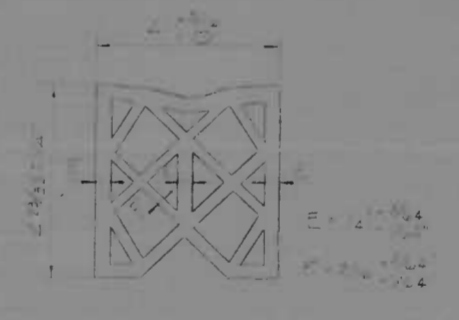


SECTION A-A
Scale 1/4"=1'-0"

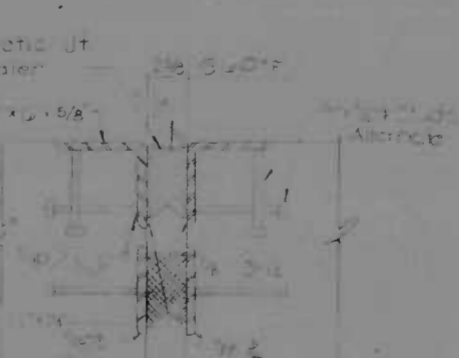
STEEL REINFORCED ELASTOMERIC EXPANSION DAM AT PIERS



SECTION C-C
Scale 1/4"=1'-0"



ELASTIC JOINT SEALER
Scale None



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

NOTE A
The expansion joint shall be set, anchored, bonded and sealed as recommended by the manufacturer and as set forth in the Special Provisions. Anchors shall be same expansion type.

Locate holes with plywood template for 1/4" diameter hole which bolts, drill holes 1/4" x 3/4" deep. Holes shall not be drilled for anchor bolts until the concrete is at least 7 days old. First section of expansion joint shall be installed starting at 1/4" roadway. Tighten bolts to 85 foot pounds. Retighten to 85 foot pounds 30 minutes after initial setting. Check bolt torque and cast with sealant. Plug down in end tank. Scrape off all excess sealant. Manufacturer shall be consulted on installation and availability of joint sections.

NOTE B
All sealant, anchors and retainer bars in Expansion Dams shall be ASTM Designation A-36.

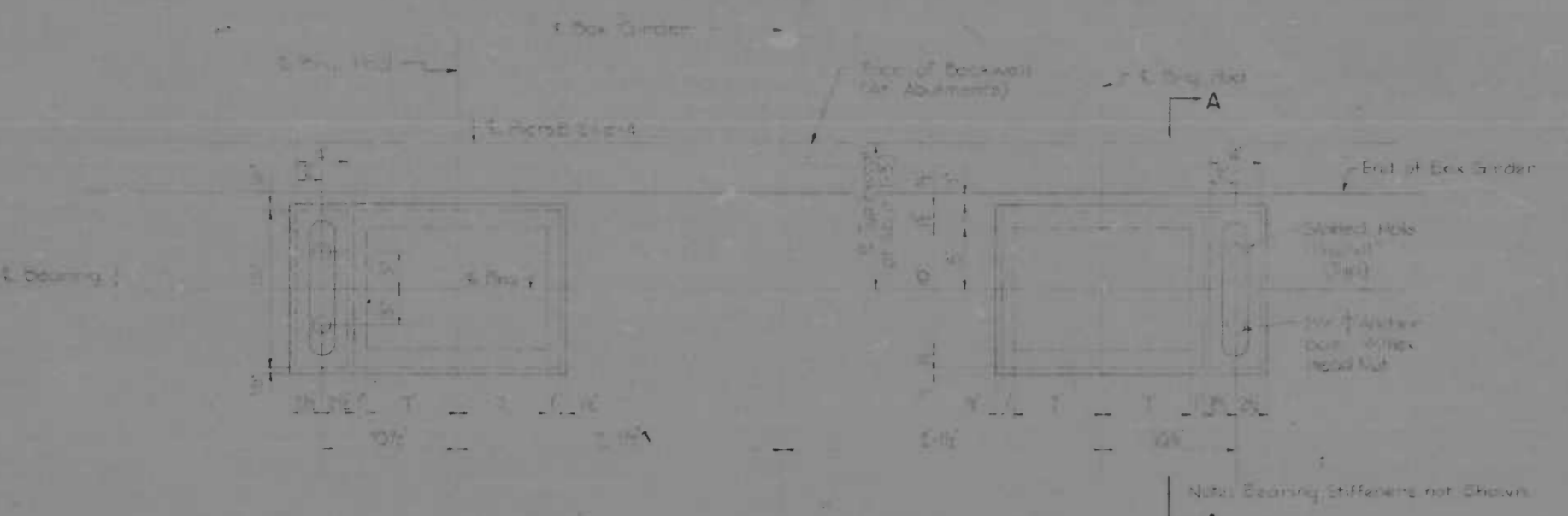
REFERENCES
Forming Book 2
Forming Book 3
Abutments

SHEET NO.
192
S-27 of S-55

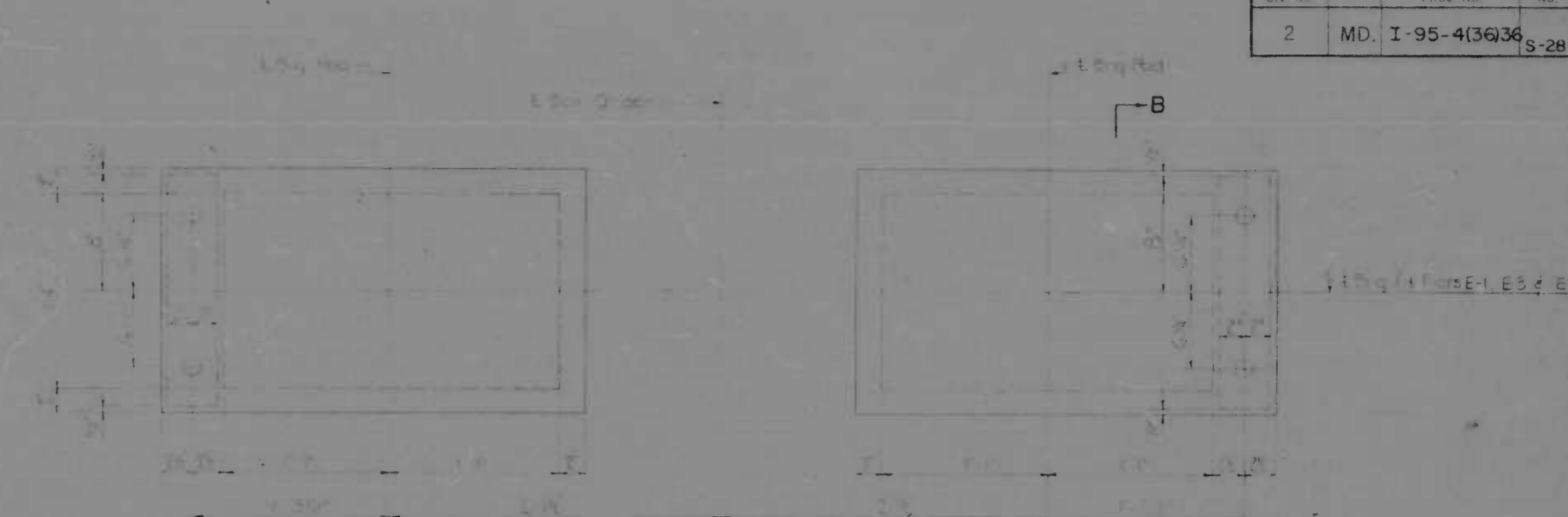
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KINDERLE, BENDER, SIGHE & ASSOC., INC. MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 141 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1995 WINDLASS MORAVIA INTERCHANGE RAMP 'E' OVER RAMP B I-95 AND B&O RR EXPANSION JOINT DETAILS	DRAWN BY: P.D. TRACED BY: P.D. F.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: BC 216-33-815 BALTO. CITY NO.: 1995
		SCALE: As shown	DES. BY: C.D.P. CHK. BY: F.F.M. DATE: June 21, 1995

ME BALTIMORE 17-000

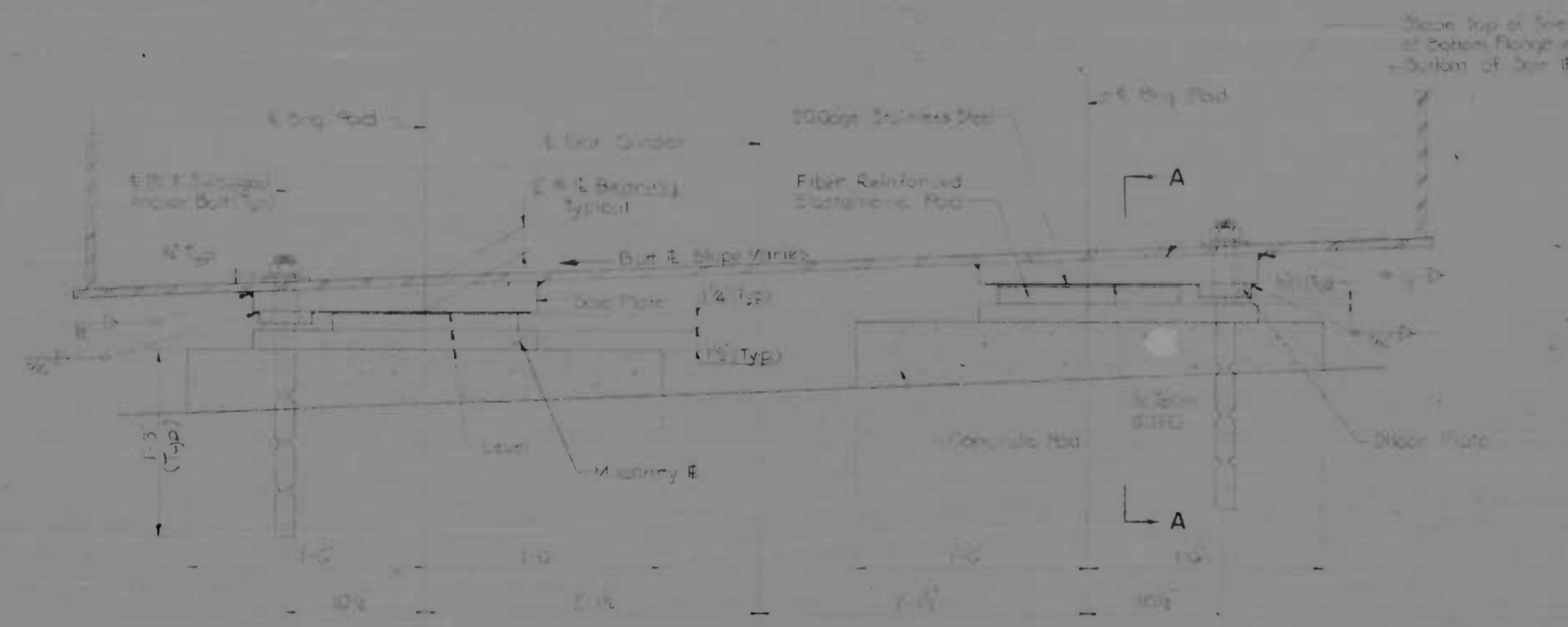
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-28	S-55



PLAN



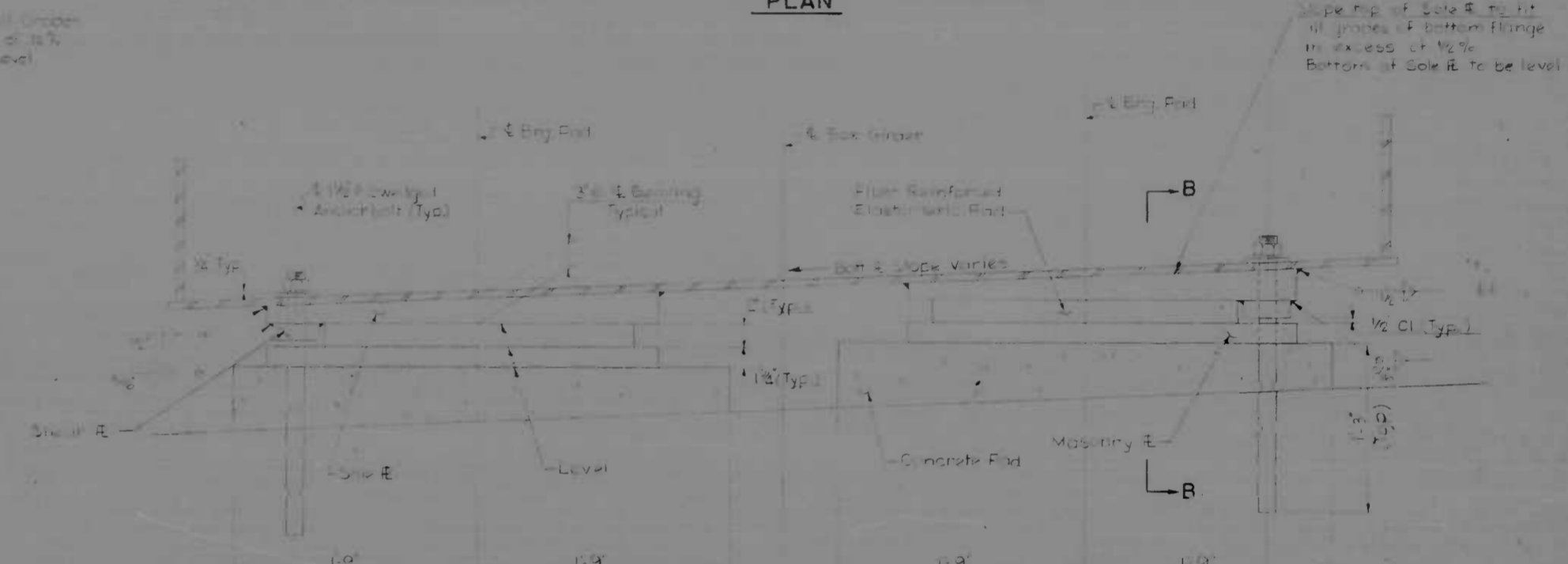
PLAN



ELEVATION

EXPANSION BEARING

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



ELEVATION

FIXED BEARING

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

REFERENCES	SHEET NO.
As shown	36
Piers E-1, E-2 and Details	37
Piers E-3 and Details	39
Piers E-4 & E-5 and Details	70
Framing Plan I	71
Framing Plan II	72
Detailing Details	74

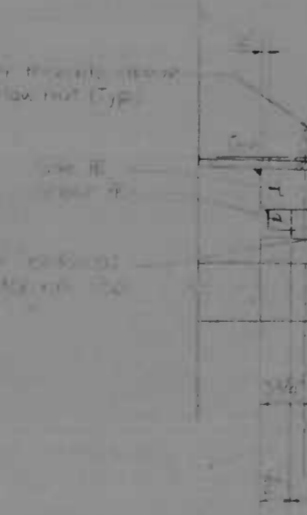
1/2" Dia. Slotted Hole in Sole B, Bottom Flange E, and Shear E & 1/2" Thick in Masonry E. For 1/2" Dia. Slotted Anchor Bolt with Hex Nut and Washer. Detachable Bolt 1/2" in 1 3/4" drilled hole in Masonry (Typ).



SECTION A-A

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

Slope Top of Sole B to fit All Grades of Bottom Flange in Excess of 1/2". Bottom of Sole B to be Level.



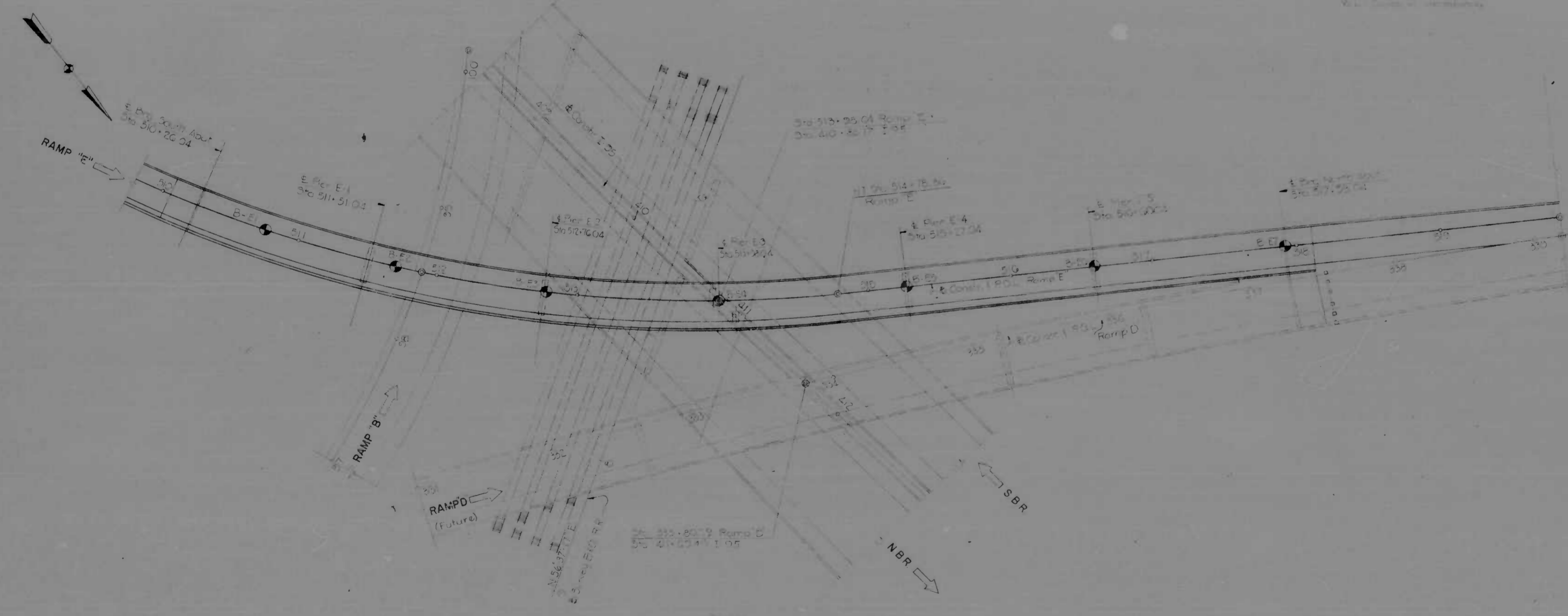
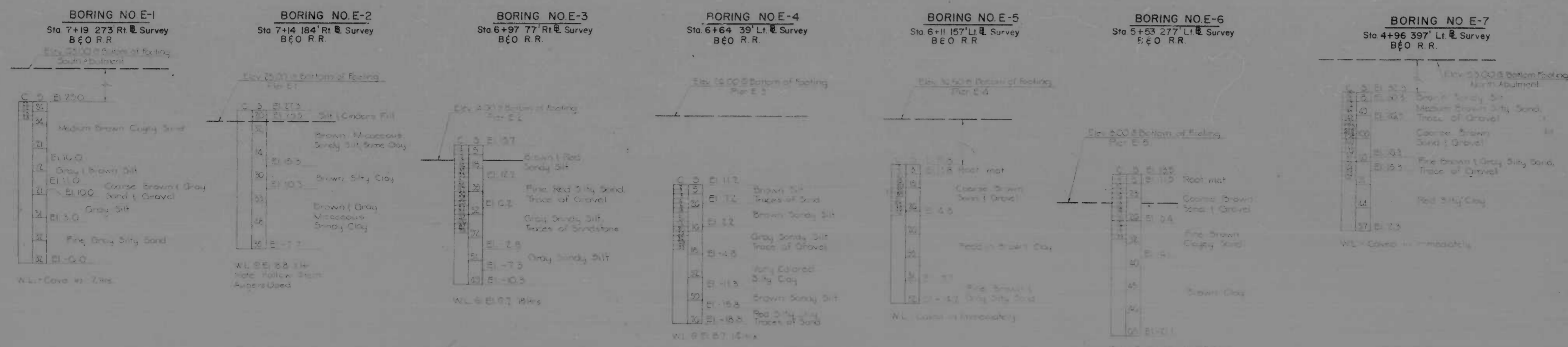
SECTION B-B

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

- Notes:
- All steel used in bearing shall conform to ASTM Designation A-588.
 - All bolts, nuts, washers shall be hot dipped galvanized.
 - Expansion shall be applied on full contact area between the following:
 - Fiber Reinforced Elastomeric Pad & Masonry Plate
 - Fiber Reinforced Elastomeric Pad & Teflon Plate
 - Steel Plate & Stainless Steel Plate
 - Masonry Plate & Concrete Pad
 - epoxy resin filling compound shall be used if air temperature is between 30°F and 70°F.
 - Fill all gaps and holes around anchor bolts with non-hardening caulking compound or plastic joint sealant.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KIMBERLE BENDER, STONE & ASSOC. AND MATZ, GARDIS & ASSOC., INC. CONSULTING ENGINEERS 943 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95 AND B & O R.R. BEARING DETAILS	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-015 BALTO. CITY NO.: 1995
		SCALE: As Shown	DES. BY: C.D.P. CHK. BY: F.F.M. SHEET NO.: (92) S-28 of S-55

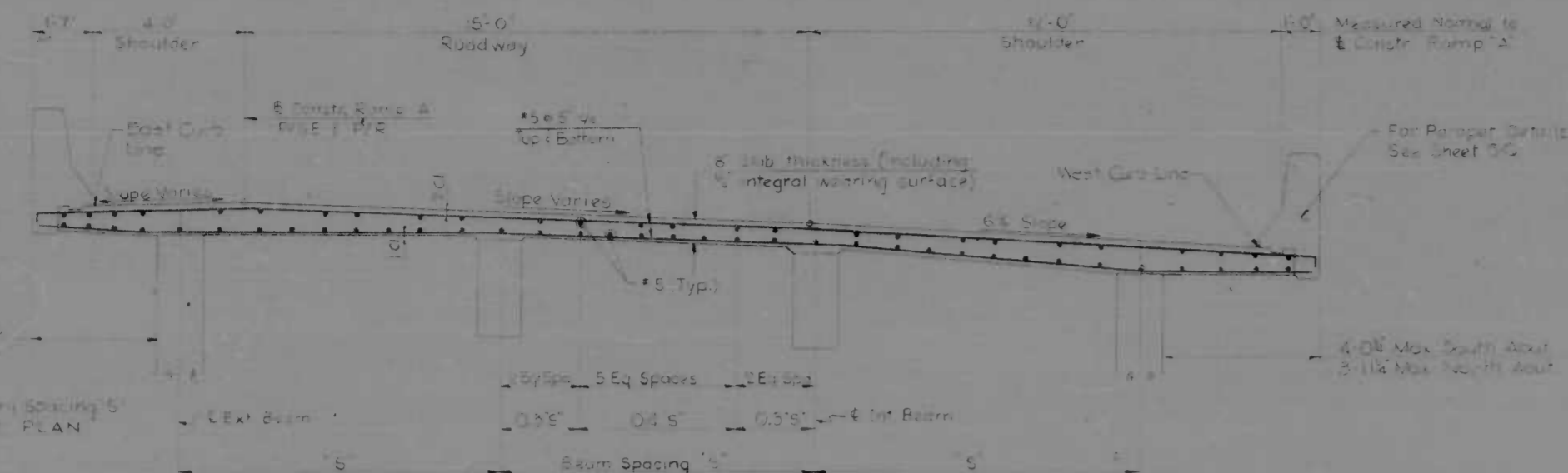
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	F-95-4(36)36	S-29	S-55



- Notes:
1. Test Borings made in Jan. 1971.
 2. Number of blows required to drive a 2 1/2" dia. casing one foot using 300 lbs weight falling 30 inches. (If no casing blows are shown a hollow stem auger was used.)
 3. Number of blows required to drive a 2 1/2" dia. sampling spoon one foot using a 140 lb weight falling 30 inches.

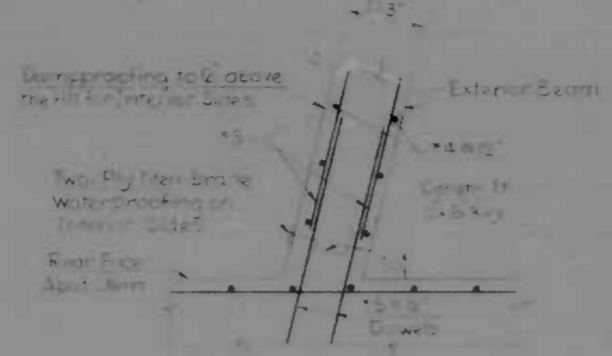
PLAN
2/26/71

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KIMBLE, BENDER, STONE & ASSOC., INC. AND MATE, PHILBO & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95 WINDLASS MORAVIA INTERCHANGE RAMP "E" OVER RAMP "B", I-95 AND B & O R.R. BORING DATA	DRAWN BY: M.S.F. TRACED BY: M.S.F. DES. BY: C.D.P. CHK. BY: F.F.M.
		SCALE: As Shown	DATE: 1/26/71
		F.A.P. NO. I-95-4(36)36	SHEET NO. (92)
		S.R.C. NO. BC 246-33-015	S-29 of S-55
		BALTO. CITY NO. 1995	

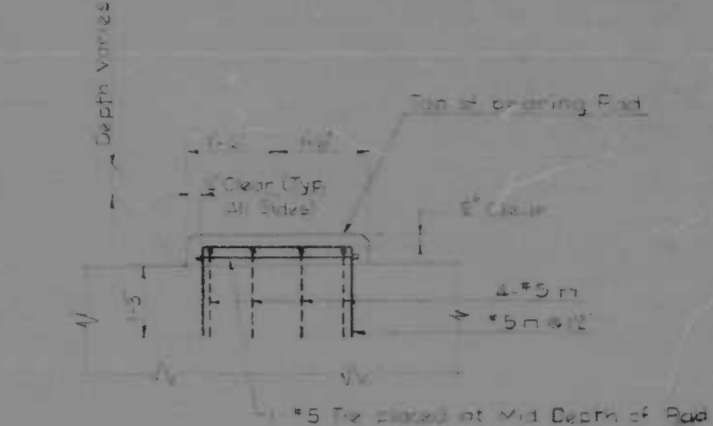


SECTION B-B
Scale 1/2"=1'-0"

Notes:
1. Reinforcing steel in proper beams not shown.
2. Dimensions for overhangs are measured normal to Center Ramp "A".

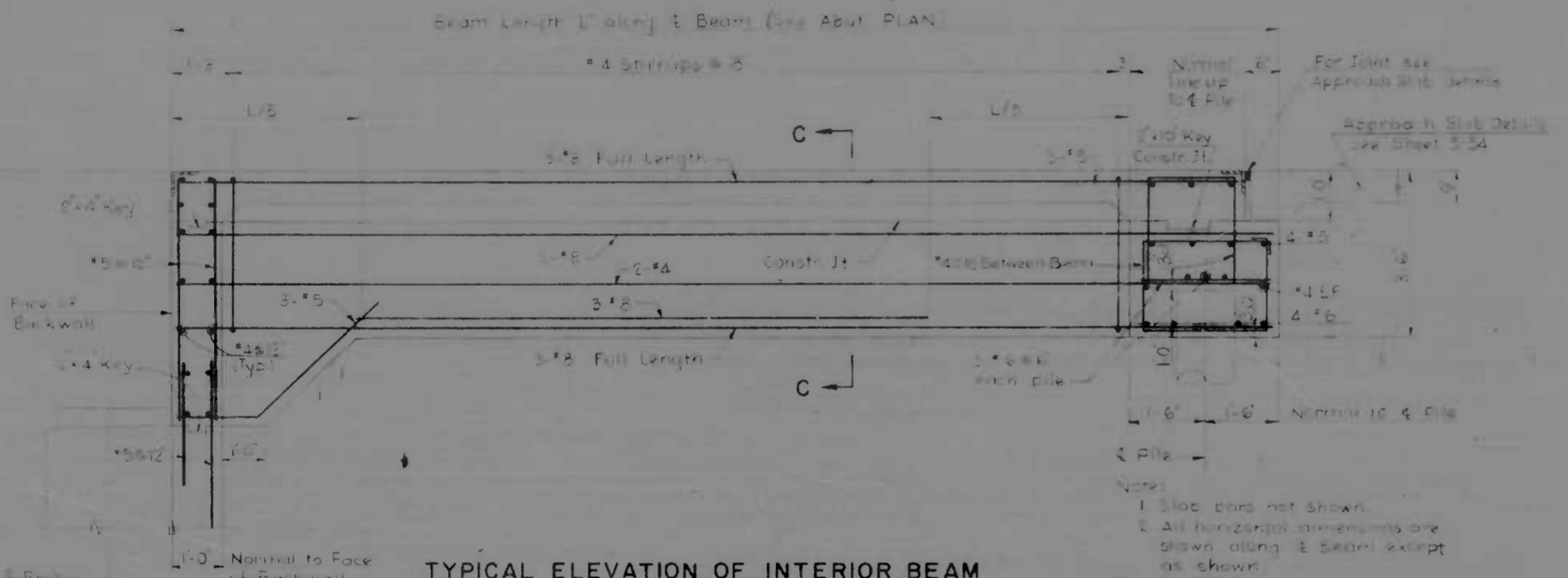


SECTION E-E
Scale 1/2"=1'-0"



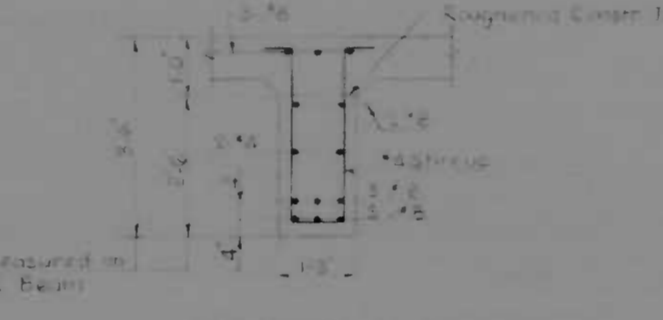
TYPICAL BEARING PAD DETAIL
Scale 1/2"=1'-0"

Notes:
1. Splice reinforcing in clear under bolts.
2. Typical Bearing Pad Detail to have steel 4" x 5" in frame in depth.
3. The Contractor may pour monolithic if he elects to do so at his own expense.

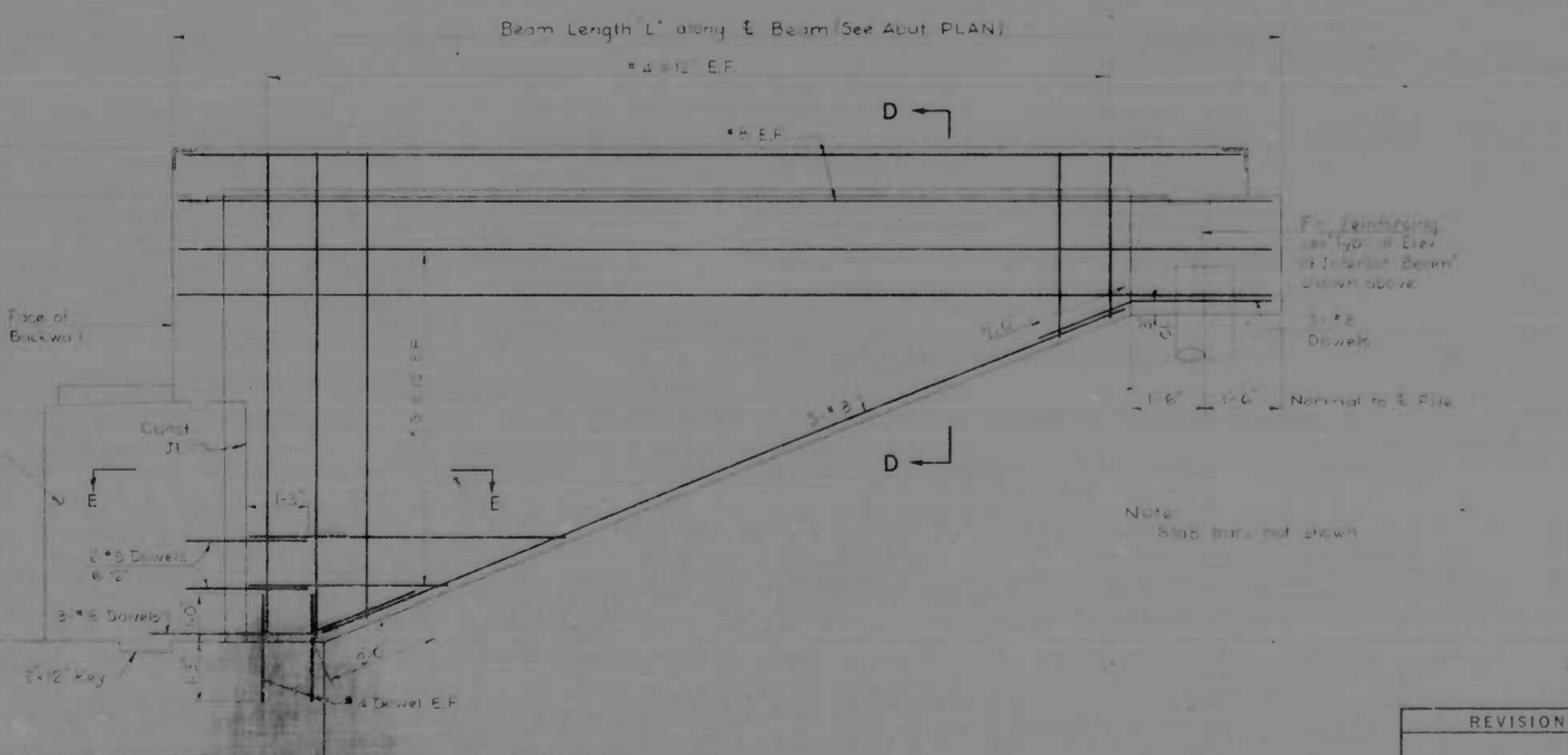


TYPICAL ELEVATION OF INTERIOR BEAM
Scale 1/2"=1'-0"

Notes:
1. Slab ends not shown.
2. All horizontal dimensions are shown along the beam except as shown.

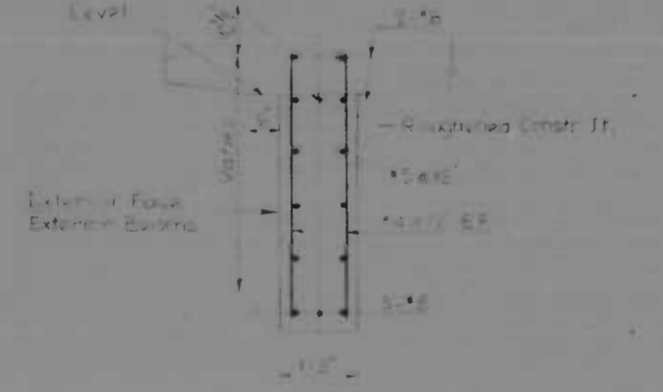


SECTION C-C
Scale 1/2"=1'-0"



TYPICAL ELEVATION OF EXTERIOR BEAM
Scale 1/2"=1'-0"

Notes:
1. Slab ends not shown.



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

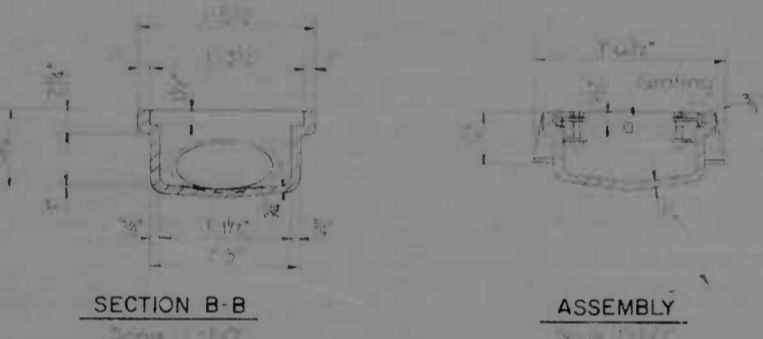
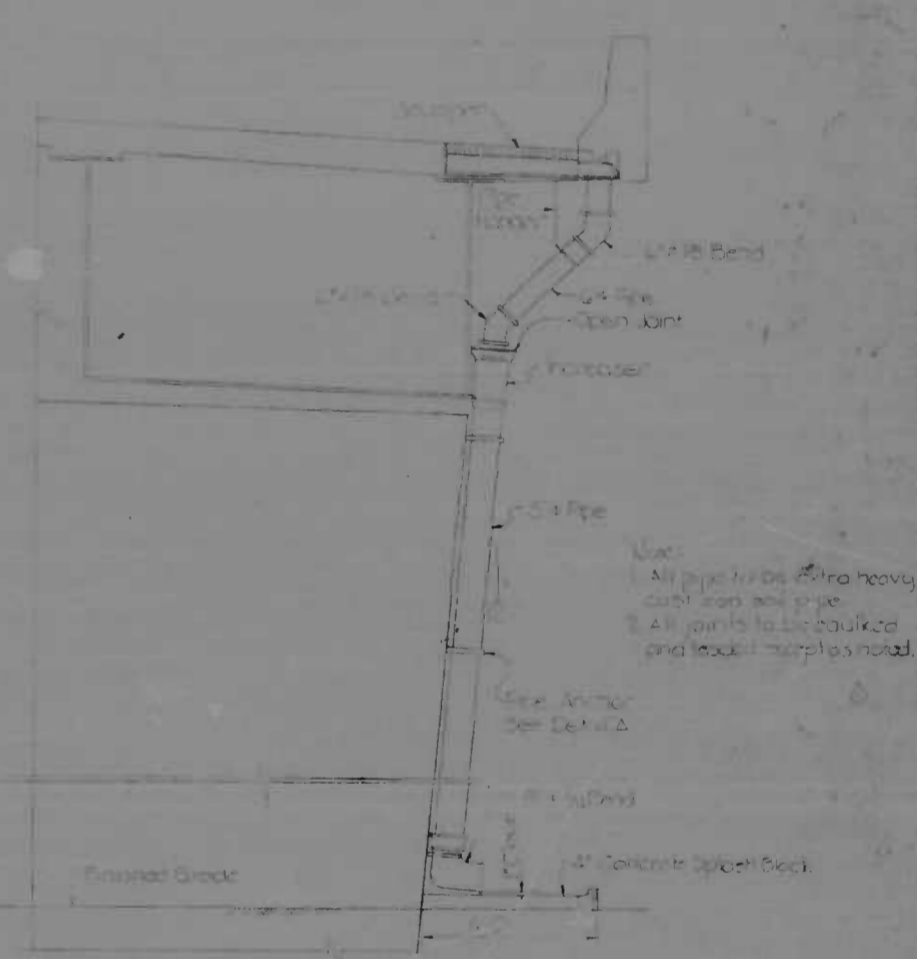
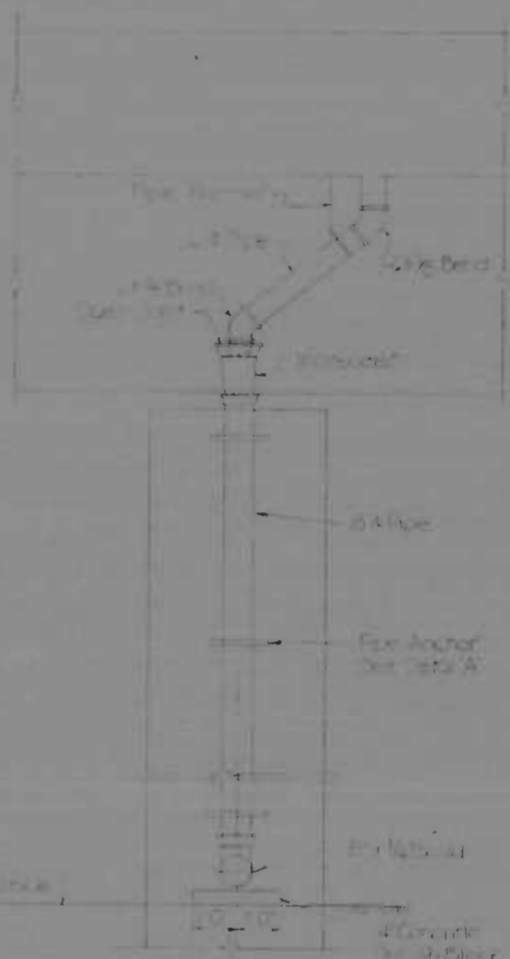
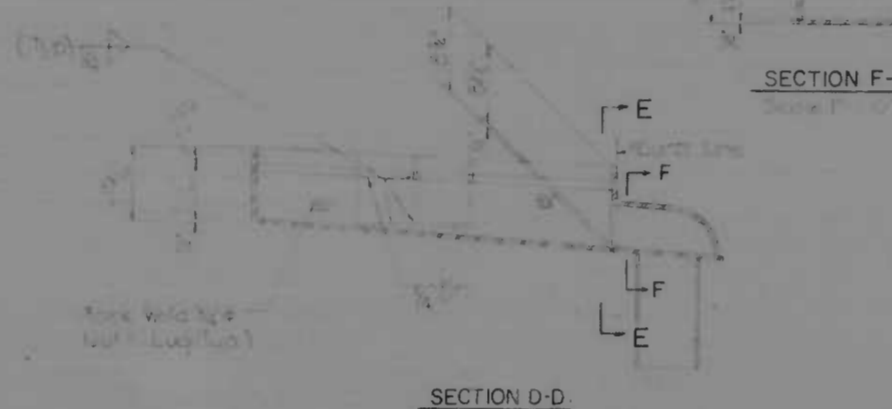
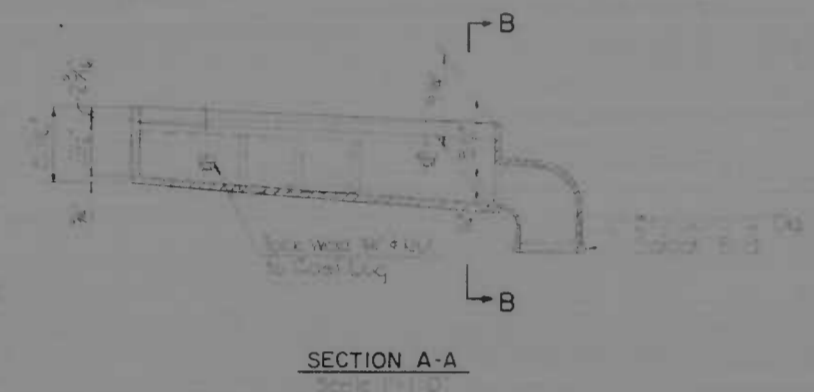
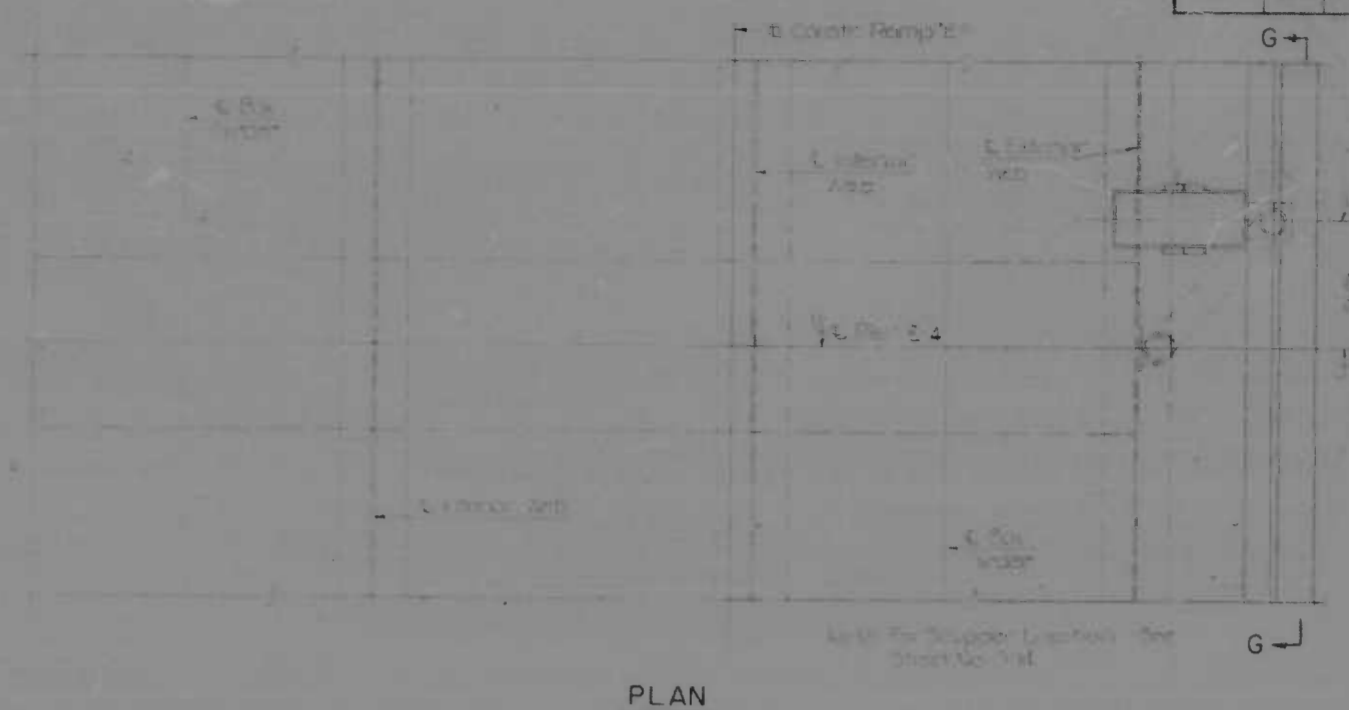
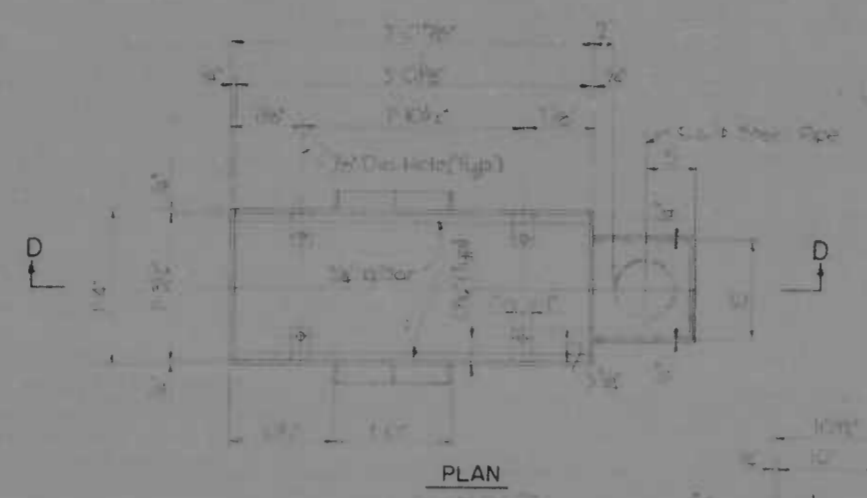
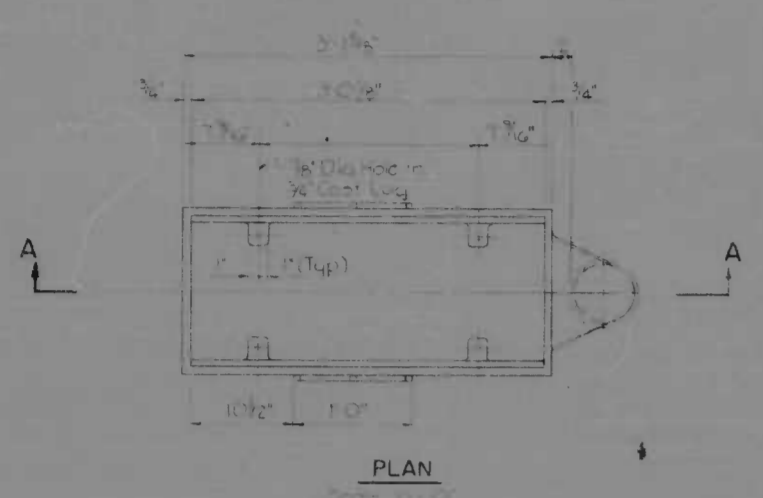
Notes:
1. Slab ends not shown.
2. All horizontal dimensions are shown along the beam except as shown.

REFERENCES: SHEET NO. 5-3 of S-55

Notes:
1. Reinforcing in Abutment See Section 2-2 Sheet 5-3.

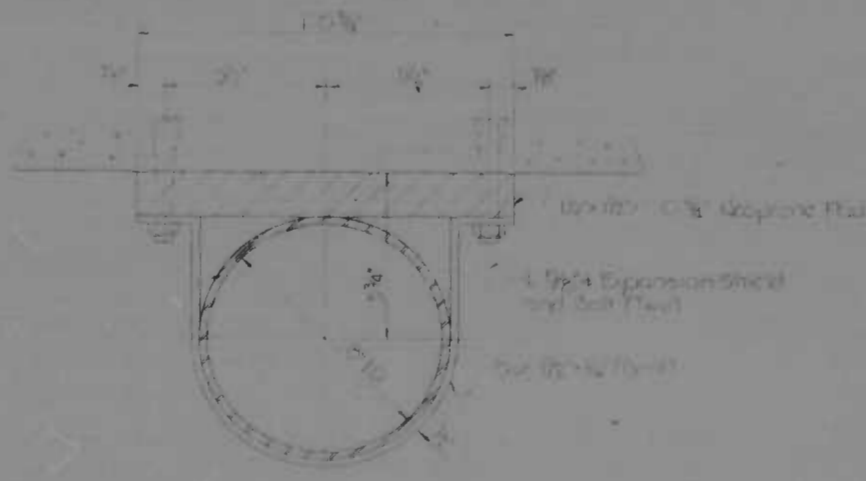
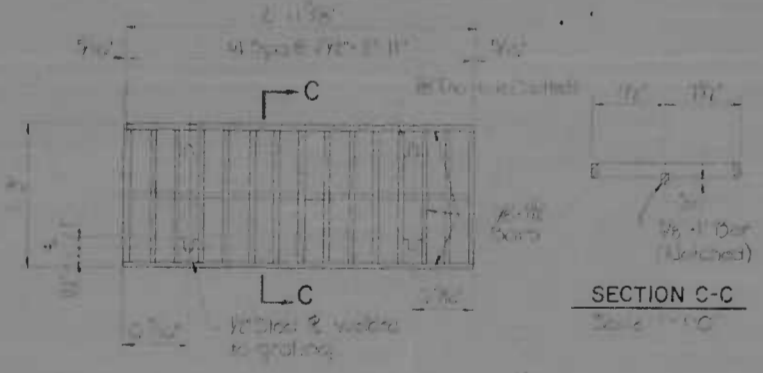
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 381 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95-WINDLASS-MORAVIA INTERCHANGE RAMP "A" OVER B & O R.R. APPROACH SPAN DETAILS	DRAWN BY: R.V.P. DESIGN BY: W.J.W. TRACED BY: R.V.P. CHK. BY: F.F.M.
		SCALE: As Shown	DATE: 10/11/91
		F.A.P. NO.: I-95-4(36)36	SHEET NO.: (92)
		S.R.C. NO.: BC 246-33-815	S-3 OF S-55
		BALTO. CITY NO.: 1995	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(136)36	S-30	5-55



SCUPPER DETAILS - CAST IRON

ALTERNATE SCUPPER - FABRICATED STEEL



SCUPPER GRATE DETAILS

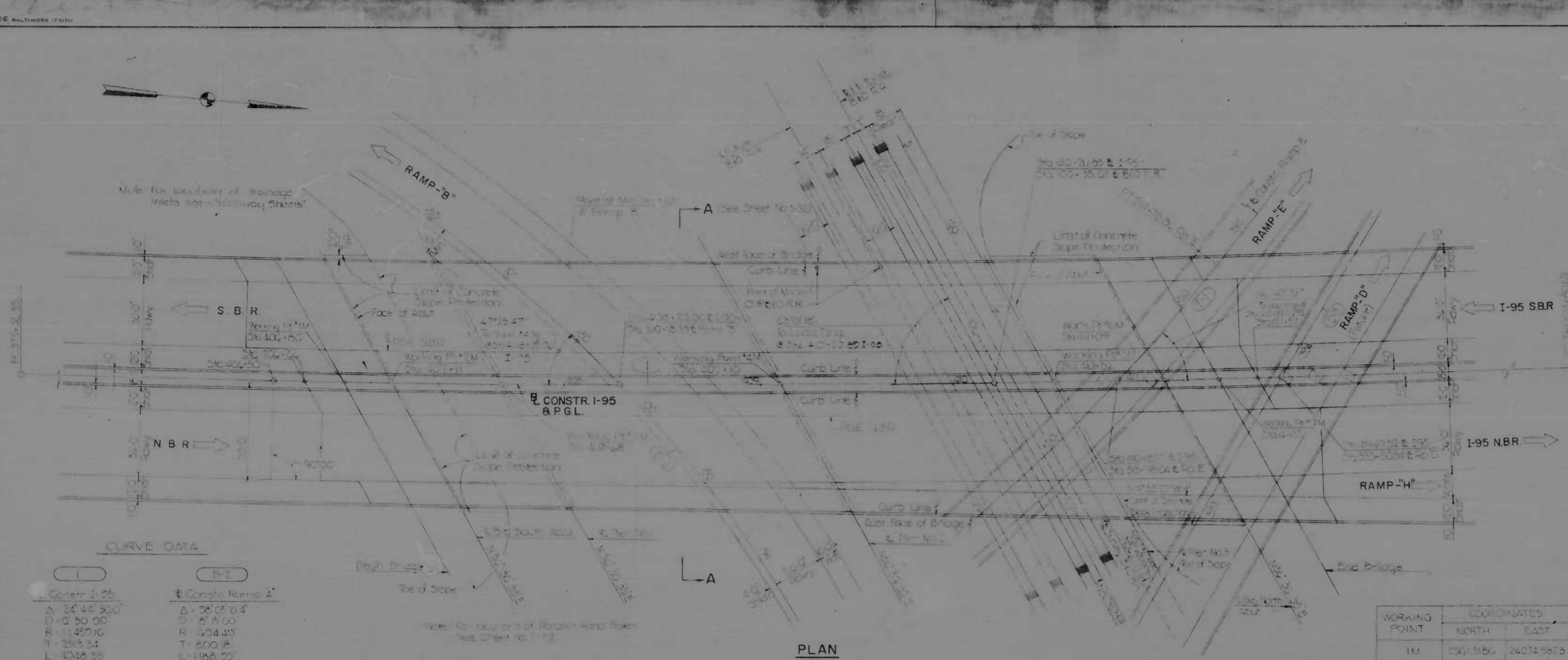
SCUPPER GRATE NOTES

1. Grates to be structural steel as per ASTM specification A 36, galvanized as per ASTM specification A 153.
 2. Grating, nuts, bolts & washers to be galvanized (ASTM A 305).
 3. Welding: Scupper grating to be fully welded on back of pressure welded assembly. The grating shall be fastened to the structure without welding and shall be anchored.

SCUPPER NOTES
 1. Cast Iron Scupper to be gray cast iron as per ASTM specification A-136, Class 30.
 2. Fabricated Steel Scupper to be fabricated of structural steel ASTM specification A-36.
 3. All scupper steel shall be hot dipped galvanized.

REFERENCE: General Plan SHEET NO. S-31

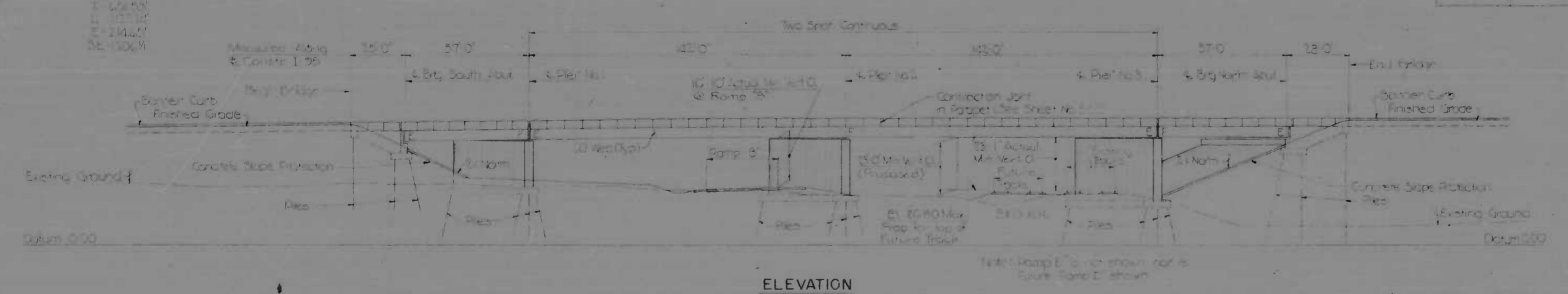
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KENDRICK, BENDER, STONE & ASSOC. INC. MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	DRAWN BY: J.P.W. CHECKED BY: J.R.W. DESIGNED BY: M.S.C. CHECKED BY: F.F.M. F.A.P. NO.: I-95-4(136)36 S.R.C. NO.: BC 246-33-B15 BALTO. CITY NO.: 1995
		SCALE: As Shown DATE: 11/15/93 SHEET NO. S-30 OF 5-55



CURVE DATA

Curve	Center	Radius	Delta	Chord	Length	Elevation	SE
1	114521.6	114521.6	24° 44' 30"	100.00	114521.6	114521.6	SE+R/C
2	114521.6	114521.6	24° 44' 30"	100.00	114521.6	114521.6	SE+R/C
3	114521.6	114521.6	24° 44' 30"	100.00	114521.6	114521.6	SE+R/C
4	114521.6	114521.6	24° 44' 30"	100.00	114521.6	114521.6	SE+R/C

WORKING POINT	COORDINATED	
	NORTH	EAST
1M	2501.9150	24074.9873
2M	2500.4305	24074.4504
3M	2498.9455	24073.9177
4M	2497.4605	24073.3807
5M	2495.9755	24072.8434
6M	2494.4905	24072.3064
7M	2493.0055	24071.7691



LOCATION PLAN

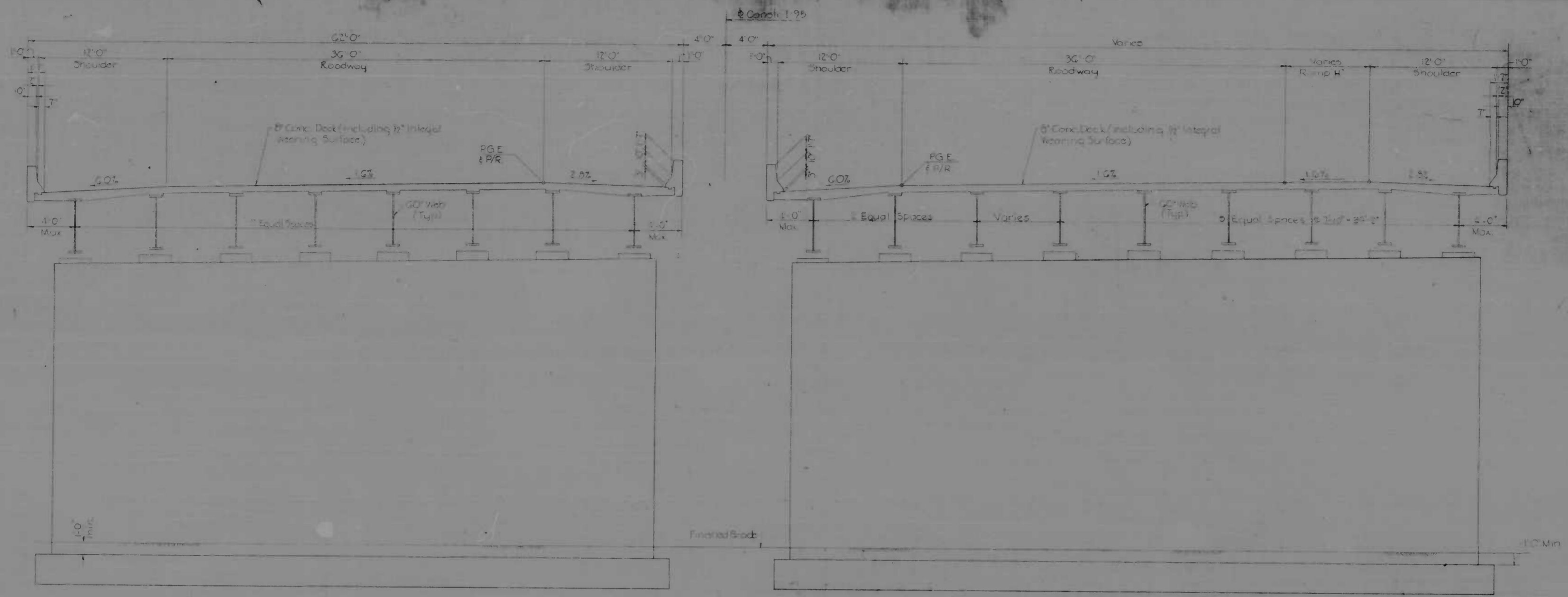
GENERAL NOTES

- SPECIFICATIONS: S.P.C. Specifications and S.P.C. to specifications dated March 1968 and Special Provisions for Materials and Construction, A.A.S.H.O. Standard Specifications for Highway Bridges dated 1975 and its 1970 interim specification for design for Reinforced Concrete Design, 4th Edition, except that the concrete in bridge deck slabs supported by steel beams has an f'_c of 4000 psi.
- LOADING: HS 20-44 or 7, 31000* axle spaced four feet apart which ever governs with provisions for a future 2' spacing.
- CONCRETE: Class 'A' Concrete shall have a minimum compressive strength of 5000 psi at 28 Days. See Special Provisions.
- CHAMFER: All exposed corners of concrete shall be chamfered $3/4" \times 3/4"$ with filled chamfer strip, except where indicated by the following notation on the plans: "No Chamfer".
- REINFORCING STEEL: Reinforcing steel shall conform to ASTM Designation A-615 Grade 60. All splices shall be lapped a minimum of 14 bar diameters unless otherwise noted. Min. Cover for any bar shall be 2" unless otherwise noted.
- STRUCTURAL STEEL: Structural steel shall be ASTM Designation A-572 Grade 50. See Special Provisions.
- FOUNDATION: Recommendations are given on individual foundations.
- One coat prime epoxy coating shall be applied to all pier exp. caps & pedestals, abutment seats & pedestals and abutment backwalls.

REFERENCES

Section and Details	SHEET NO.
South Abutment - S.B.R.	S-32
South Abutment - N.B.R.	S-33
North Abutment - N.B.R.	S-34
North Abutment - S.B.R.	S-35
Approach Span Details	S-36
Pier No. 1 - S.B.R.	S-37
Pier No. 1 - N.B.R.	S-38
Pier No. 2 - S.B.R.	S-39
Pier No. 2 - N.B.R.	S-40
Pier No. 3 - S.B.R.	S-41
Pier No. 3 - N.B.R.	S-42
Pier No. 4 - S.B.R.	S-43
Pier No. 4 - N.B.R.	S-44
Typical Deck Section - S.B.R.	S-45
Typical Deck Section - N.B.R.	S-46
Member Tables and Diagrams - S.B.R.	S-47
Member Tables and Diagrams - N.B.R.	S-48
S.B.R. Superstructure Elevation	S-49
N.B.R. Superstructure Elevation	S-50
Reinforcing Details	S-51
Expansion Joint Details	S-52
Soiling Deck	S-53
Substructure Details	S-54
Substructure Details	S-55

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOXLE, BEYDER, STONE & ASSOC., INC. AND WATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 943 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95 WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O R.R. GENERAL PLAN AND ELEVATION	DRAWN BY: L.M.W. & J.H.H. DES. BY: M.S.C. TRACED BY: L.M.W. & J.H.H. CHK. BY: F.F.M. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246 33 B15 BALTO. CITY NO.: 995

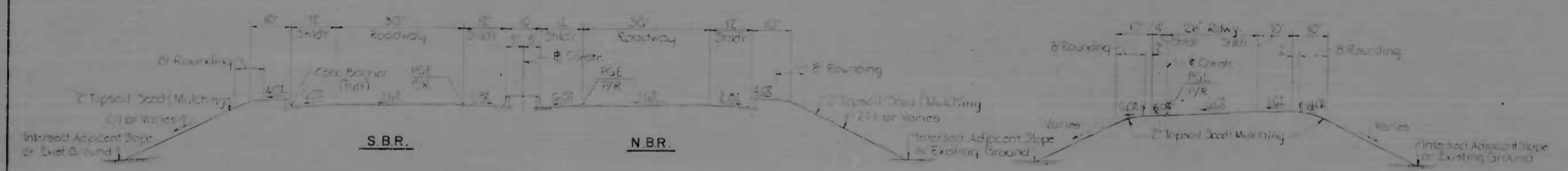


SOUTHBOUND ROADWAY

NORTHBOUND ROADWAY

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

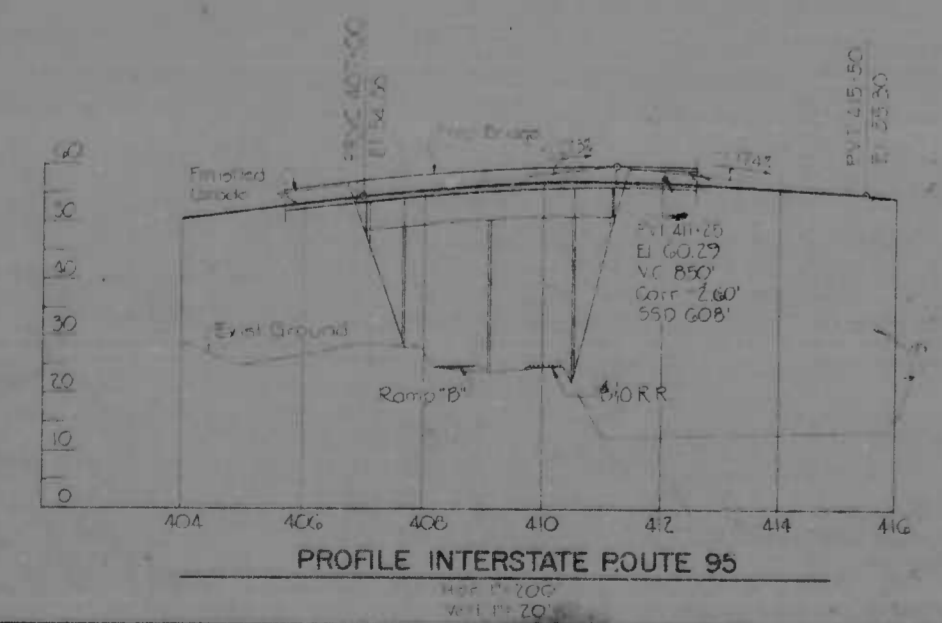
- Notes:
1. For all girder spacing see Sheets No. 15 and 16.
 2. Piers are supported on piles.



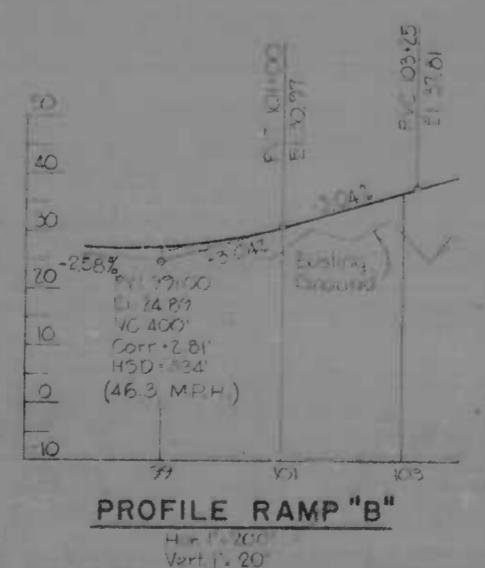
APPROACH SECTION-INTERSTATE ROUTE 95
STA. 406+50.00
Scale 1"=20'-0"

TYPICAL SECTION RAMP "B"
STA. 94+66.61 TO STA. 105+39.75
Scale 1"=20'-0"

REFERENCE	SHEET No.
Section A-A	3-31
Typical Deck Sections S.B.R.	3-45
Typical Deck Sections N.B.R.	3-46
Profile Ramp 'B'	3-44
Typical Section Ramp 'B'	3-15

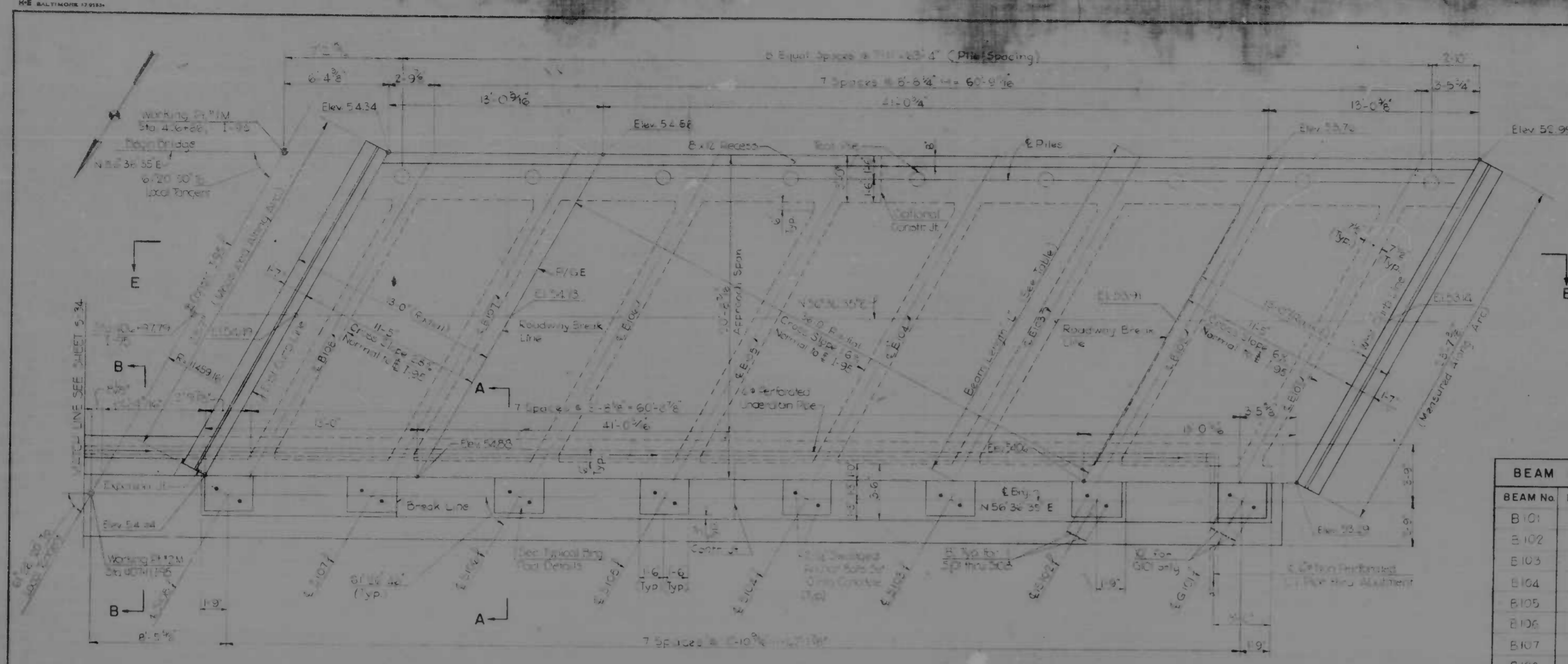


PROFILE INTERSTATE ROUTE 95
Scale 1"=20'-0"

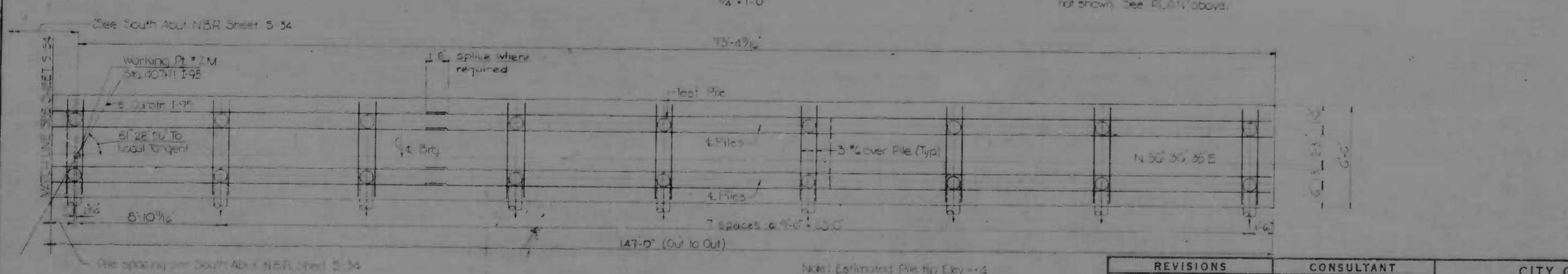
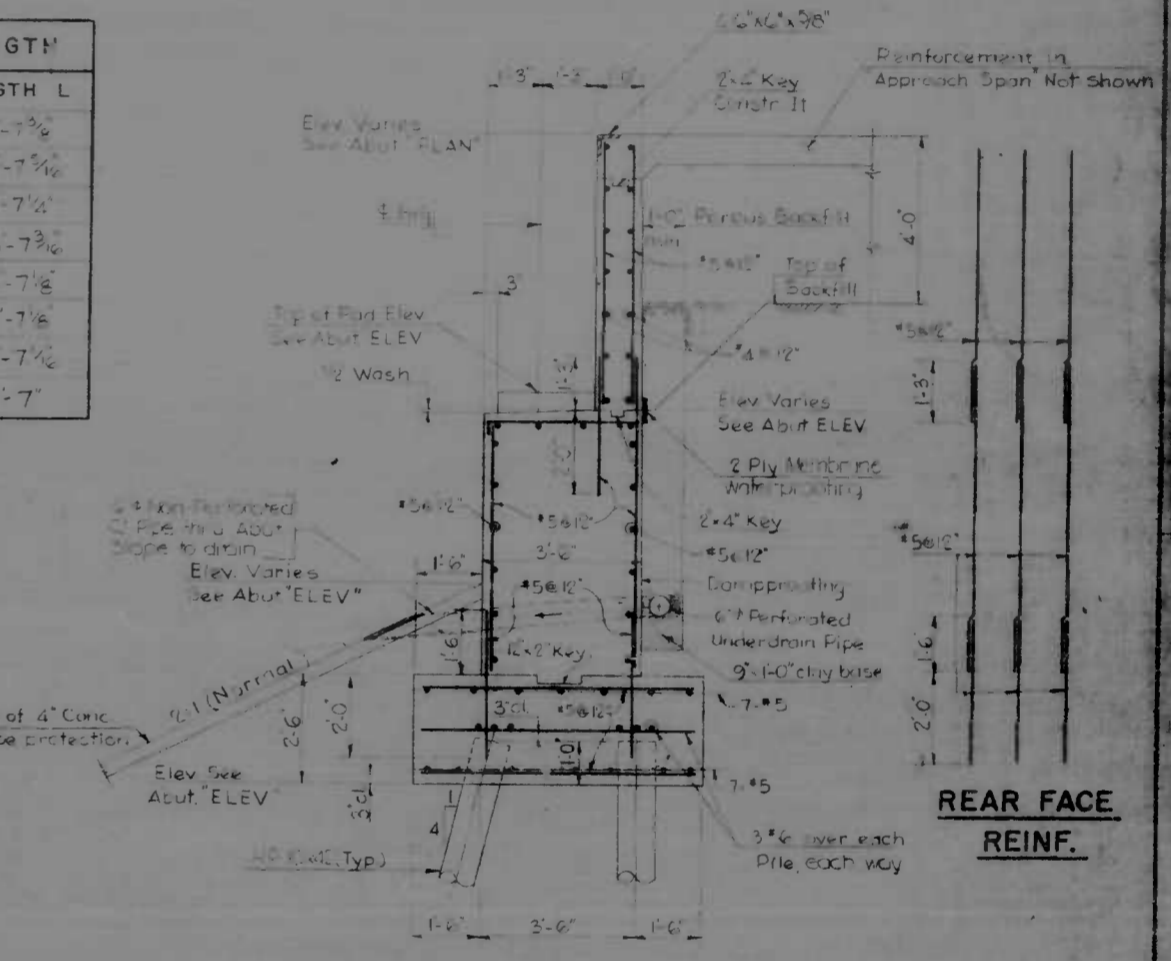
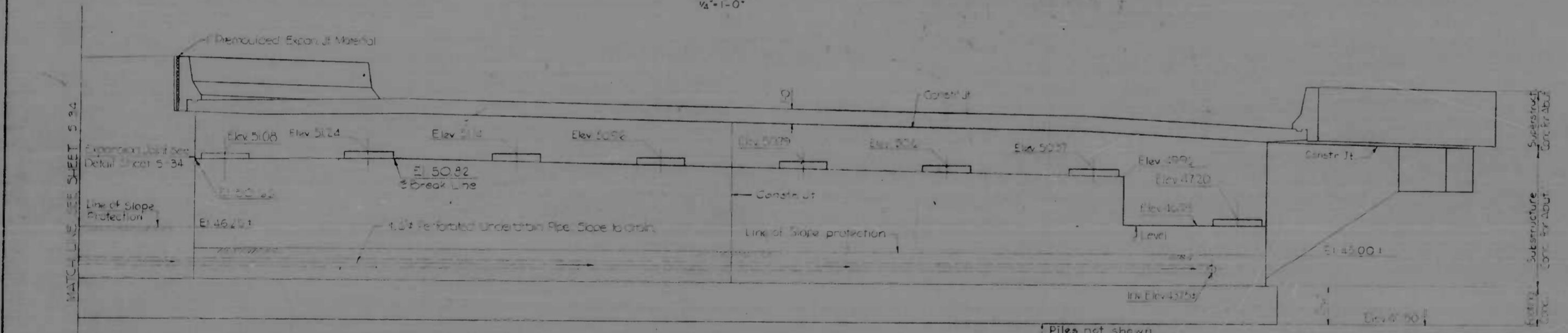
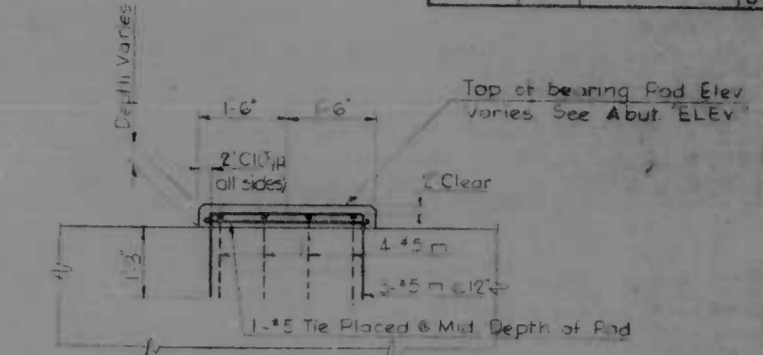


PROFILE RAMP "B"
Scale 1"=20'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	EMERLE, SPINER, STONE & ASSOC., INC. AND MATZ CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21208	1-95 WINDLASS MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & B&O R.R. SECTIONS AND DETAILS	DRAWN BY: J.R.W. DES. BY: M.S.C. TRACED BY: J.R.W. CHK. BY: F.F.M. F.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: BC 246-38-815 BALTO. CITY NO.: 1995
		SCALE: As Shown	DATE: June 10, 1991



BEAM NO.	LENGTH L
B101	23'-7 1/8"
B102	23'-7 1/8"
B103	23'-7 1/8"
B104	23'-7 1/8"
B105	23'-7 1/8"
B106	23'-7 1/8"
B107	23'-7 1/8"
B108	23'-7"



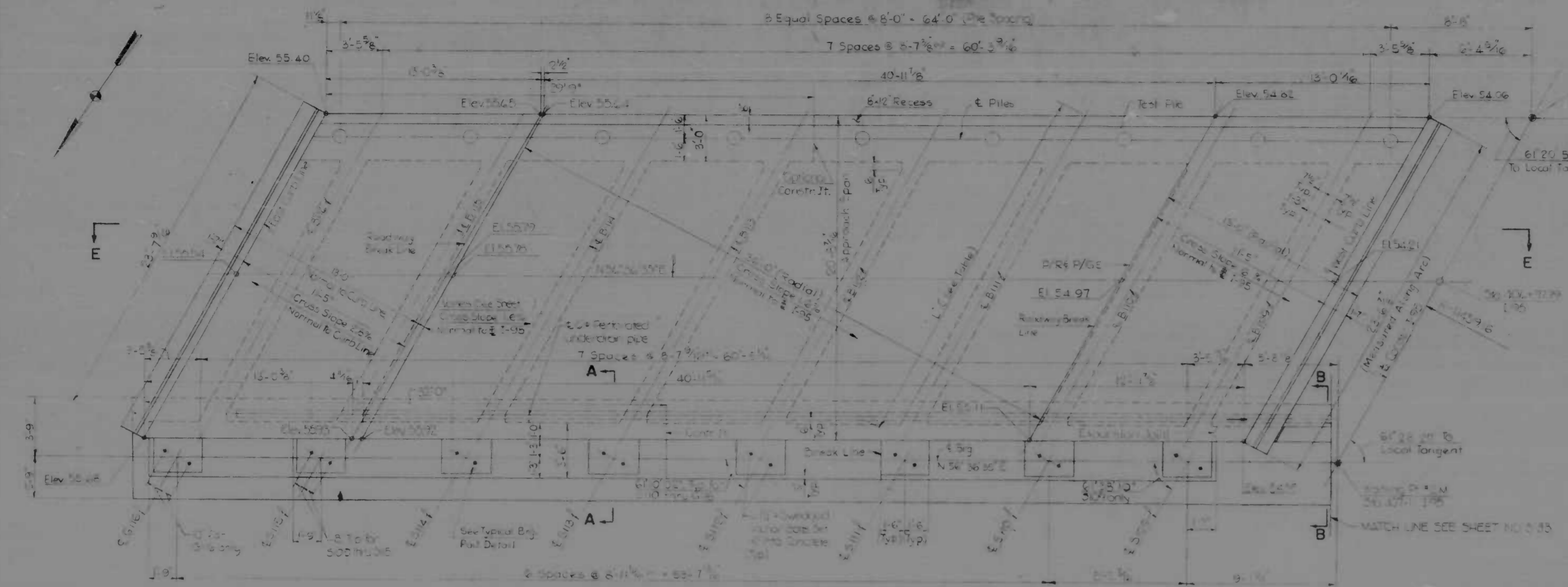
LEGEND
 ○ indicates Plumb Pile
 ⊕ indicates Batter Pile (Direction of Batter)

REFERENCES:	SHEET NO.
South Abutment - NBR	5-34
Expansion Joint for Back wall	5-34
Construction Joint Details	5-36
Approach Span Details	5-37
Section E-E	5-54
Substructure Details	5-54
Section B-B	5-34

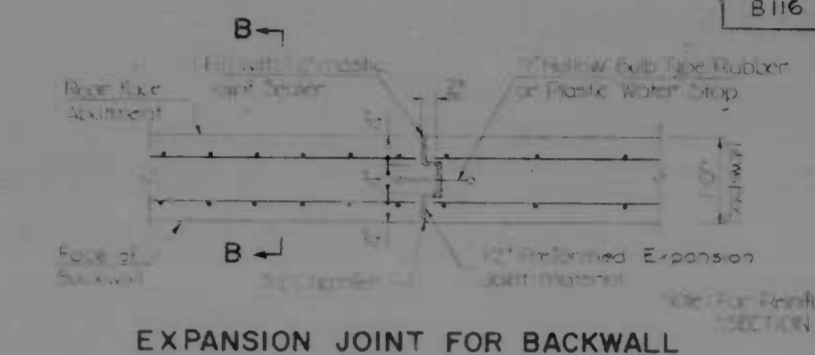
REVISIONS CONSULTANT KROEHL, BENDER, STORPE & ASSOC., INC. AND H&Z, CHASE & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	1-95-WINDLASS-MORAVIA INTERCHANGE 1-95 OVER RAMP 'B' & B&O R.R. SOUTH ABUTMENT-S.B.R.
DES. BY: I.H. CHK. BY: FFM	SHEET NO. (92) 8-33 of 35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-34	9-95

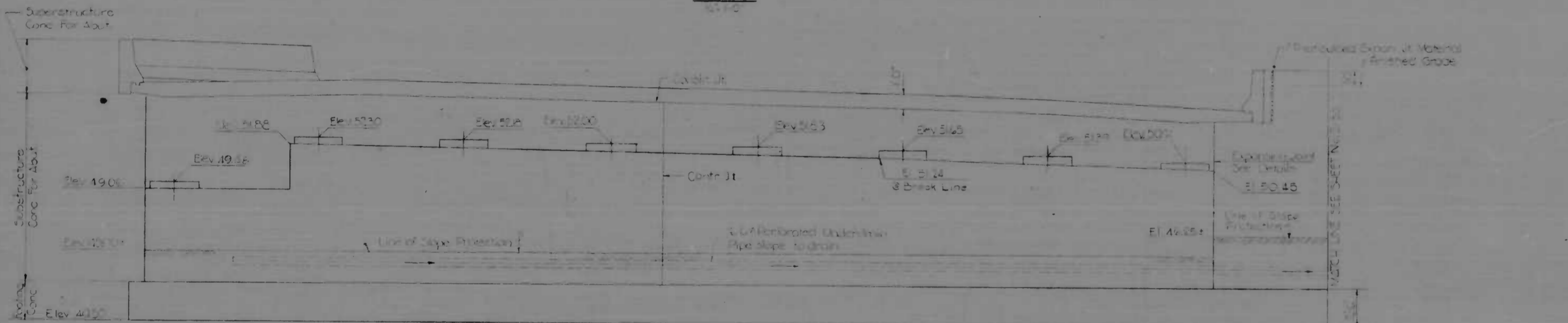
BEAM No.	LENGTH L
B109	23'-6 1/2"
B110	23'-7"
B111	23'-7 1/2"
B112	23'-7 1/2"
B113	23'-7 1/2"
B114	23'-7 1/2"
B115	23'-7 1/2"
B116	23'-7 1/2"



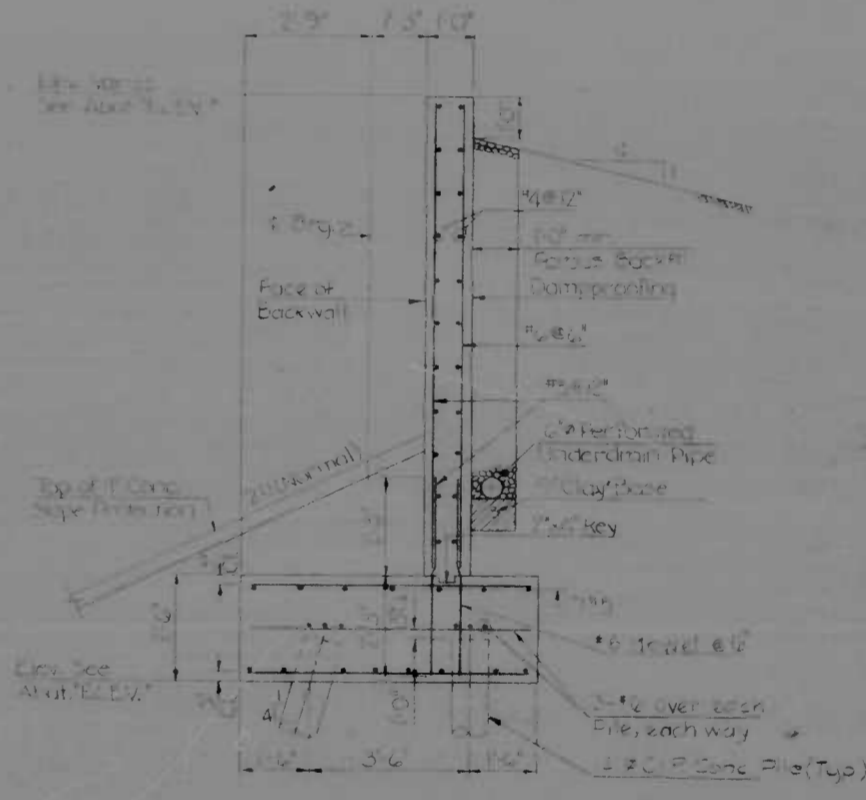
PLAN
1/4" = 1'-0"



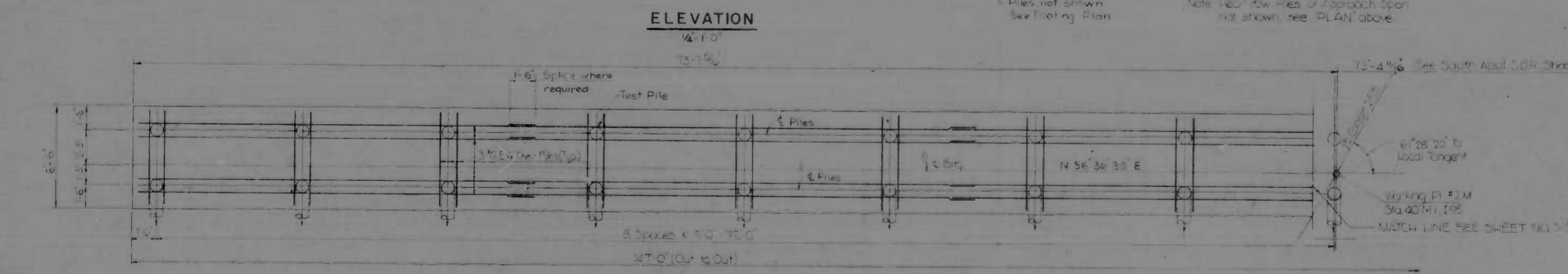
EXPANSION JOINT FOR BACKWALL



ELEVATION
1/4" = 1'-0"



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



FOOTING PLAN
1/4" = 1'-0"

LEGEND
 □ Indicates Pile
 ○ Indicates Batter Pile | Direction of Batter

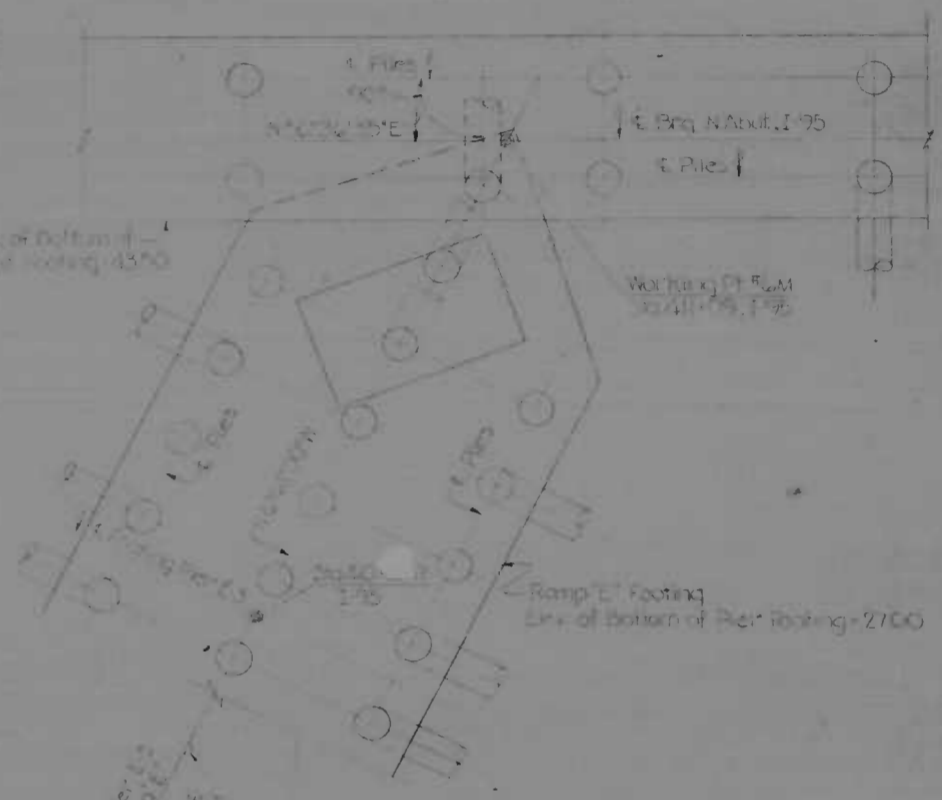
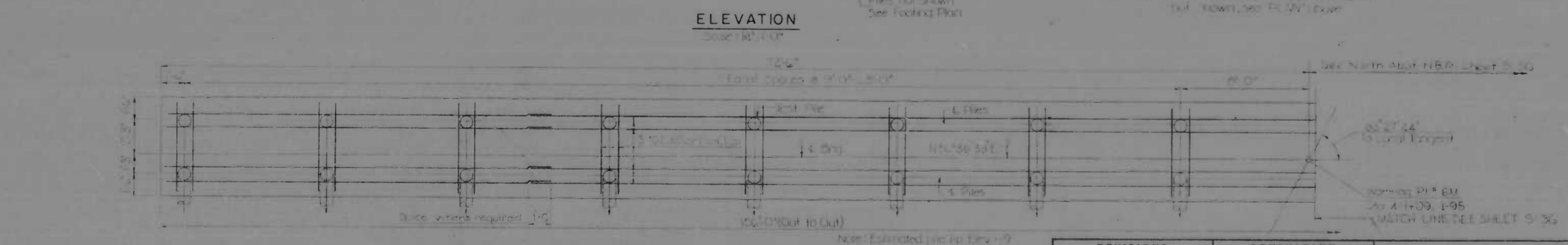
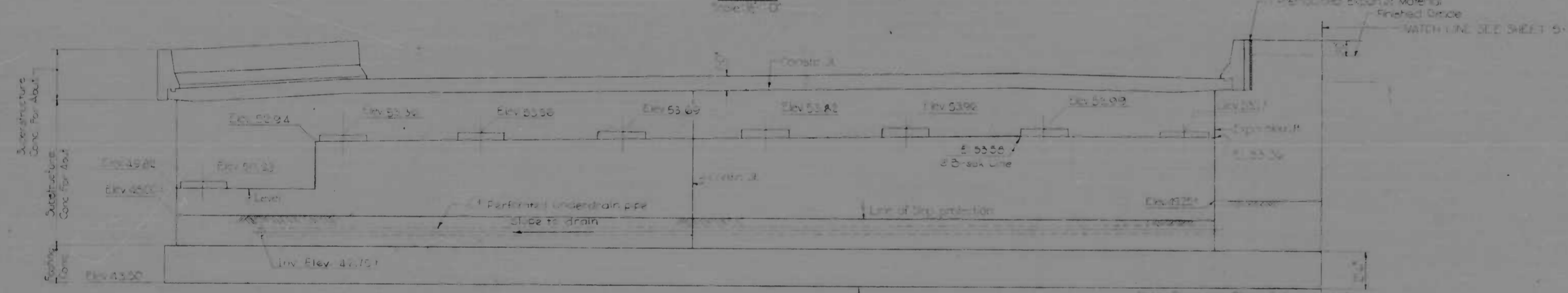
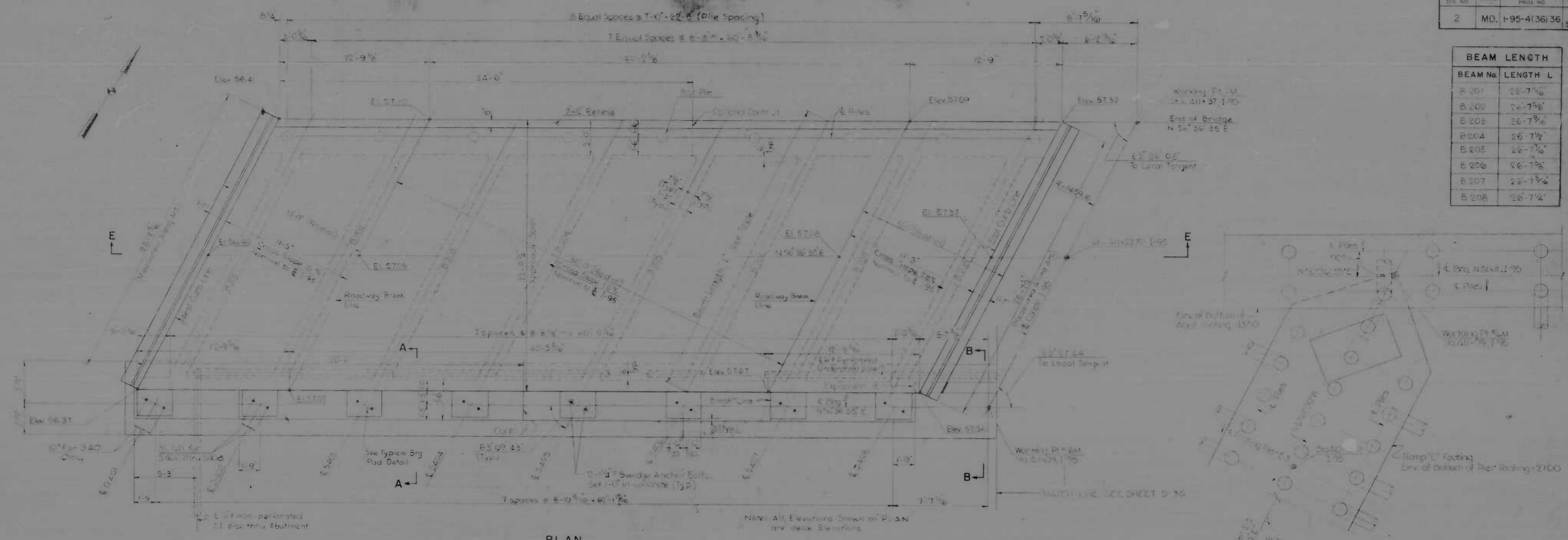
NOTES
 All Piles shall be 14" Monotube, Damp Deteriorate Resistant Concrete Piles unless a minimum safe bearing value of 40 tons or less is specified, refusal.

REFERENCE	SHEET No.
South Abutment - SSR	33
Approach Span Details	31
Section E-E	37
Substructure Details	54
Construction Joint Detail	36
Section A-A	33

REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
	KIMBLE, SIMON, STONE & ASSOC., INC. 440 DATE, HINES & ASSOC., INC. CONSULTING ENGINEERS 342 N. CALVERT STREET BALTIMORE, MARYLAND 21201	DEPARTMENT OF PUBLIC WORKS & 1-95 WINDLASS-MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & B&O R.R. SOUTH ABUTMENT N.B.R.	INTERSTATE DIVISION FOR BALTIMORE CITY
		SCALE: As Shown	DATE: June 10, 1971
			DRAWN BY: R.V.P. DES. BY: J.H. TRACED BY: R.V.P. CHK. BY: E.F.M. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO. 1995
			SHEET NO. 1921 S-34 of S-55

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(36) 36	5-35	9-55

BEAM LENGTH	
BEAM NO.	LENGTH L
B 201	26'-7 1/2"
B 202	26'-7 1/2"
B 203	26'-7 1/2"
B 204	26'-7 1/2"
B 205	26'-7 1/2"
B 206	26'-7 1/2"
B 207	26'-7 1/2"
B 208	26'-7 1/2"



NOTE:
All Piles shall be 14" Diameter, Grade 50 Cast-in-place Concrete. Piles driven to a minimum safe bearing value of 50 tons or to practical refusal.

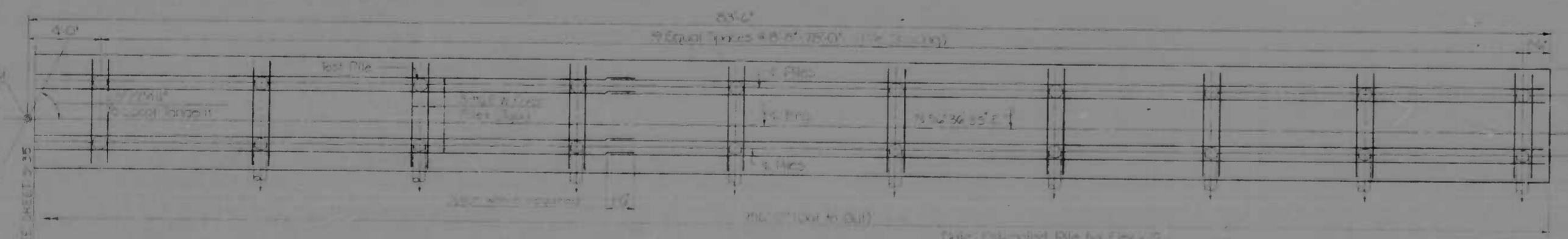
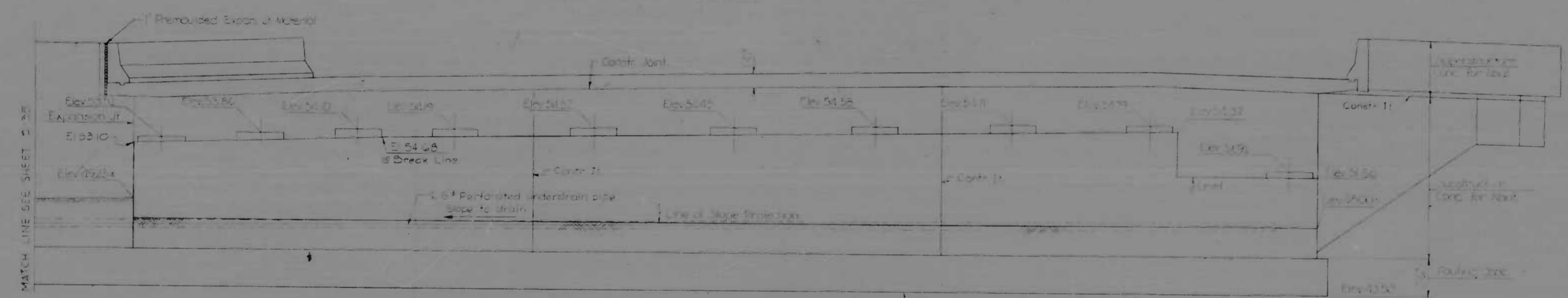
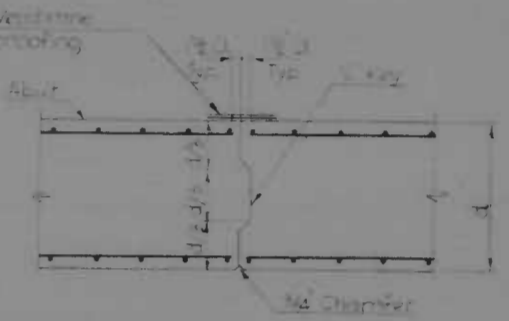
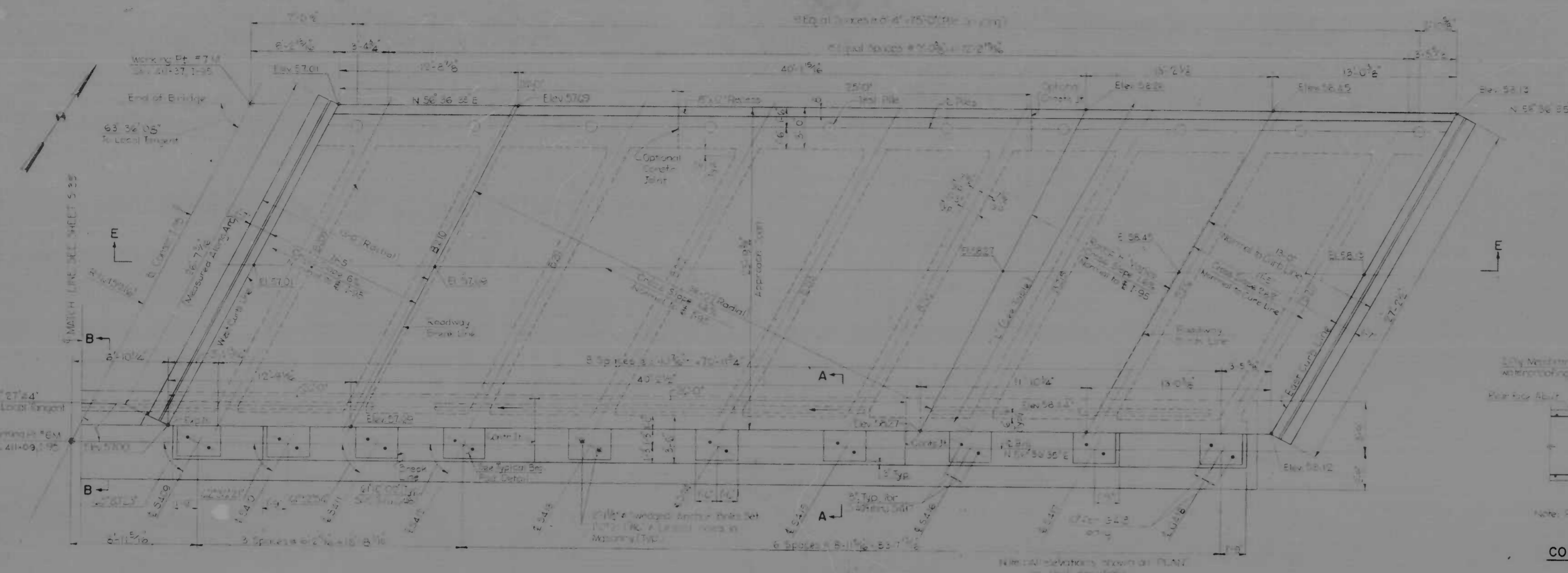
REFERENCES	SHEET NO.
Working Drawings Detail	5-36
Expansion Joint for Deck Wall	5-34
North Abutment Detail	5-35
Abutment Pier Details	5-37
Section A-A	5-34
Section B-B	5-34
Pier E-3 Footing	5-35

LEGEND:
 Indicates Rebar
 Indicates Pile
 Indicates Detail of Pile

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOCKLE, BENDER, STONE & ASSOC., INC. AND MATZ, CURRIS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95-WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O R.R. NORTH ABUTMENT S.B.R.	DRAWN BY: R.V.P. & J.R.H. DES BY: J.H. TRACED BY: R.V.P. & J.R.H. CHK BY: F.F.M.
		SCALE: As Shown	DATE: June 20, 1995
			SHEET NO. (92) 5-35 of 5-55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	52	55

BEAM NO.	LENGTH L
B 09	26-7 1/2'
B 10	26-8'
B 11	26-3 1/2'
B 12	26-9 1/2'
B 13	26-10 1/2'
B 14	26-11 1/2'
B 15	27-0 1/2'
B 16	27-1 1/2'
B 17	27-2 1/2'



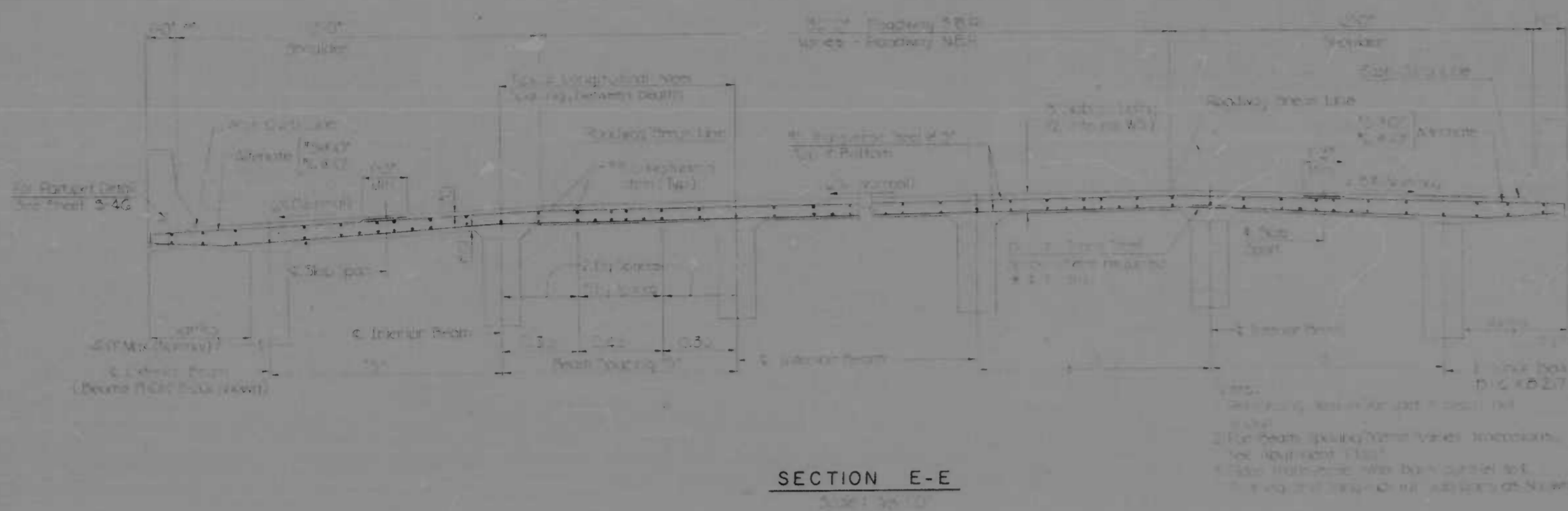
LEGEND:
 (Symbol) indicates Pile
 (Symbol) indicates Center Pile and direction of pile

NOTE:
 All piles shall be 14" Maximum Gauge 5" dia. in place
 Concrete Piles driven to a minimum safe bearing
 value of 90 tons or to practical refusal.

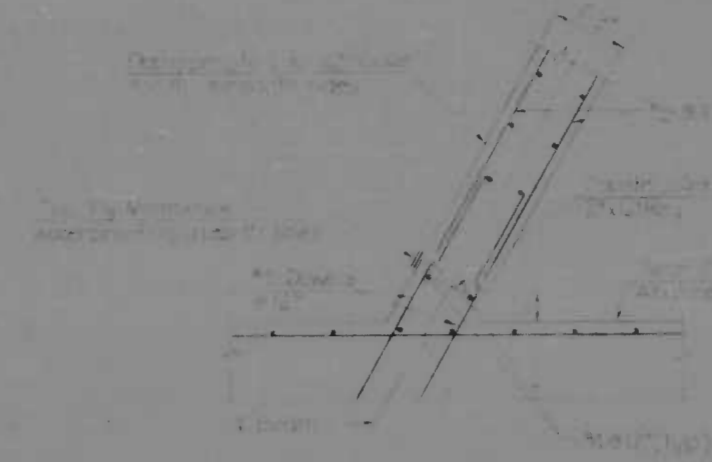
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY

REVISIONS CONSULTANT KWOERLE, 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 DIVISION FOR BALTIMORE CITY I-95 WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O R.R. NORTH ABUTMENT-N.B.R. DRAWN BY: R.V.P. TRACED BY: R.V.P. DES. BY: J.H. CHK. BY: F.F.M. DATE: June 10, 1971 SCALE: As Shown	SHEET NO. (92) S-36 OF S-55
--	--	--------------------------------

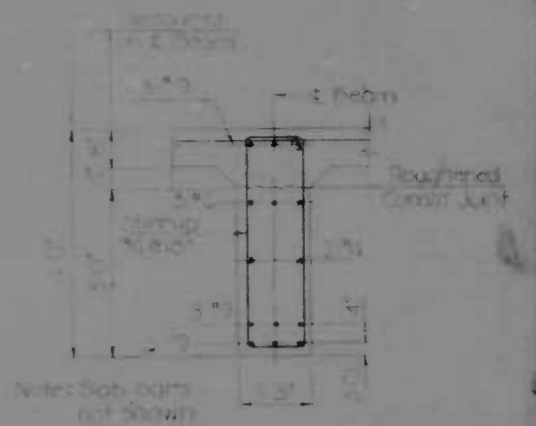
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95 4(36)36	(92)	378-55



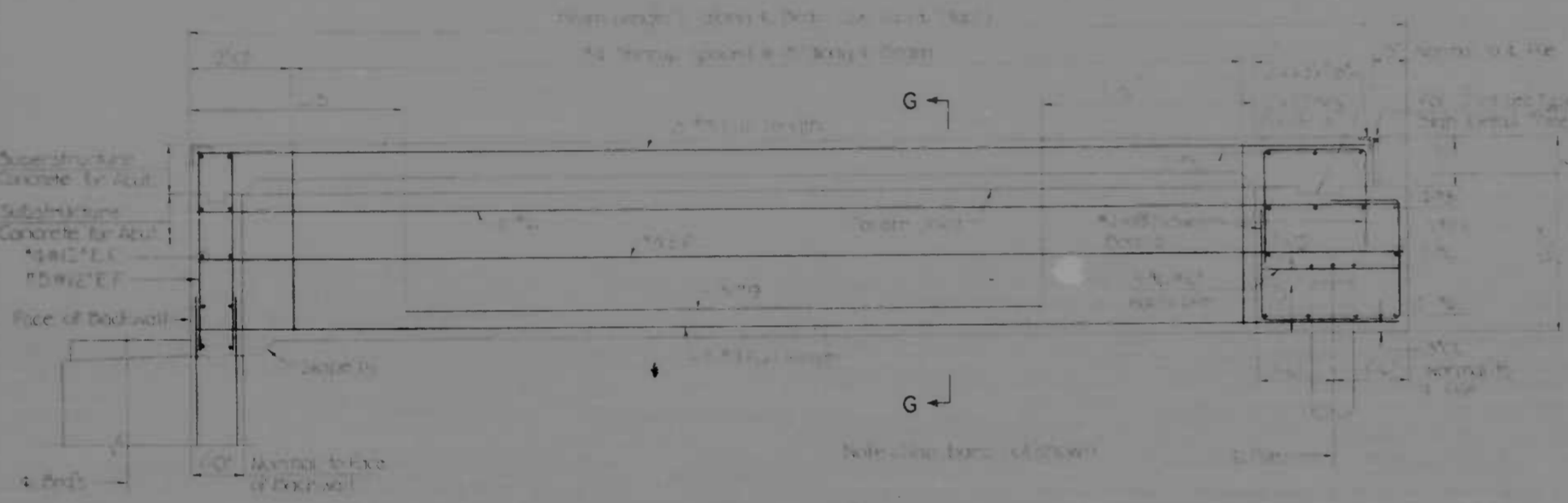
SECTION E-E
Scale: 1/2" = 1'-0"



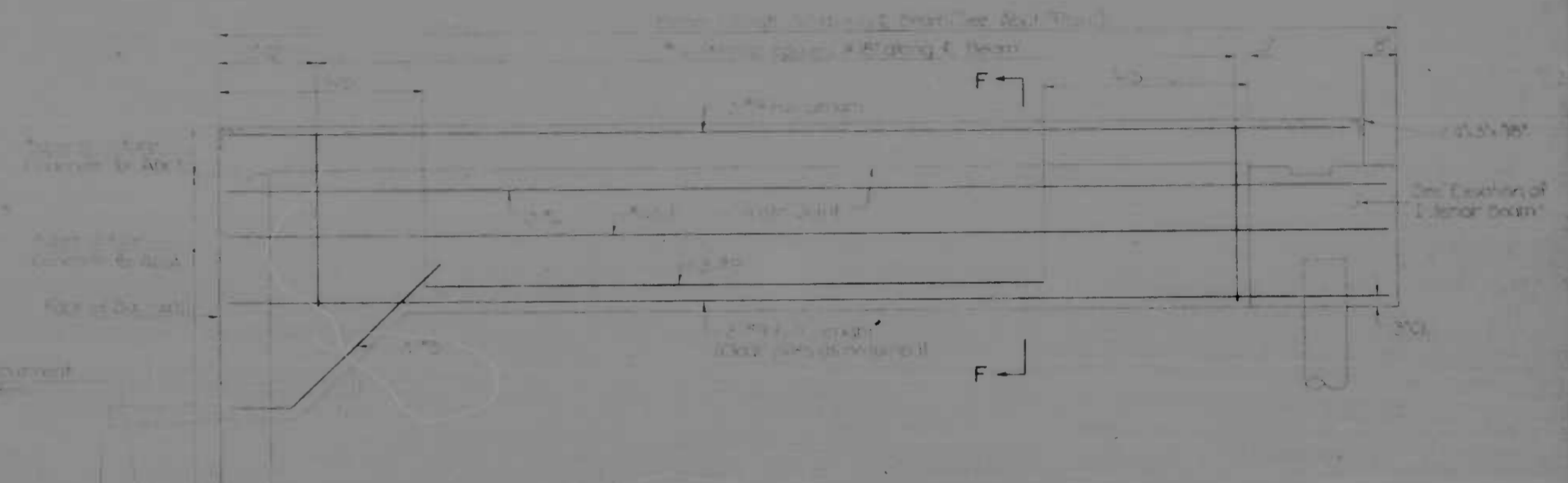
SECTION D-D
Scale: 1/2" = 1'-0"



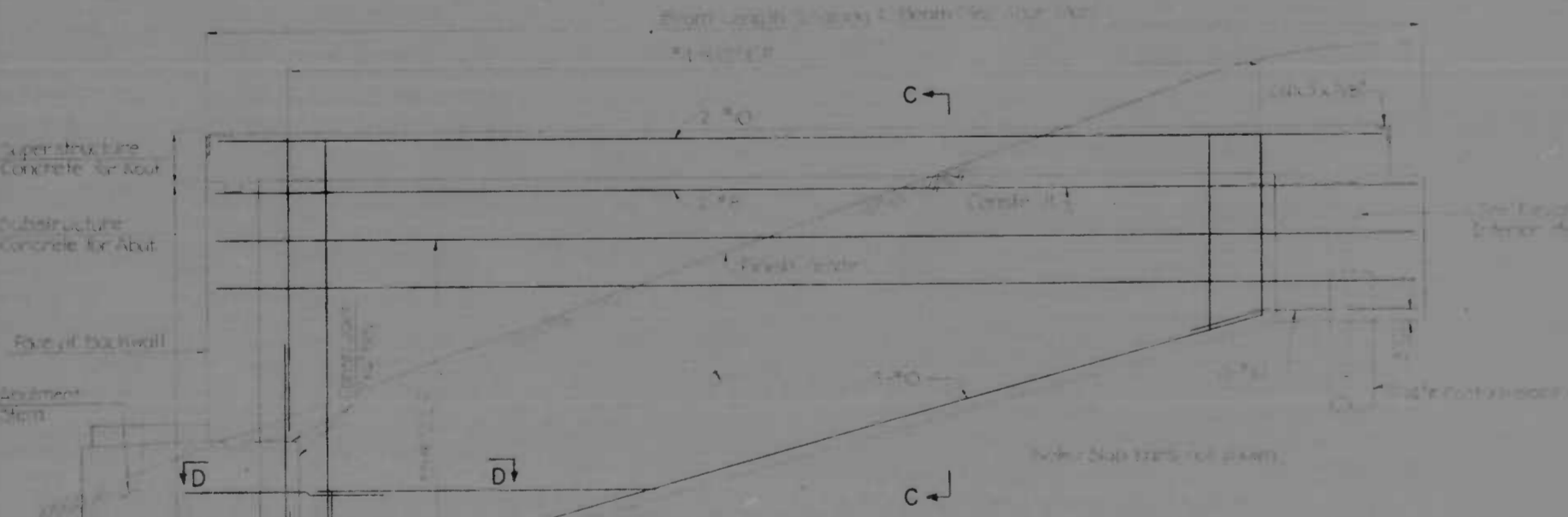
SECTION G-G
Scale: 1/2" = 1'-0"



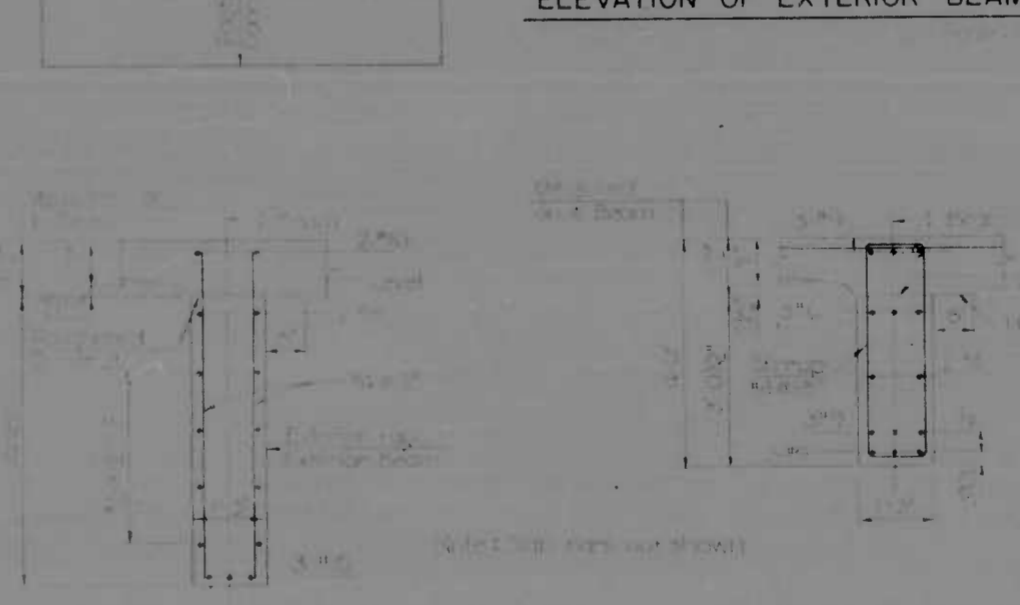
ELEVATION OF INTERIOR BEAM
Scale: 1/2" = 1'-0"



ELEVATION OF EXTERIOR BEAMS - B108, B109, B208 & B209
Scale: 1/2" = 1'-0"



ELEVATION OF EXTERIOR BEAMS - B101, B116, B201, & B217
Scale: 1/2" = 1'-0"

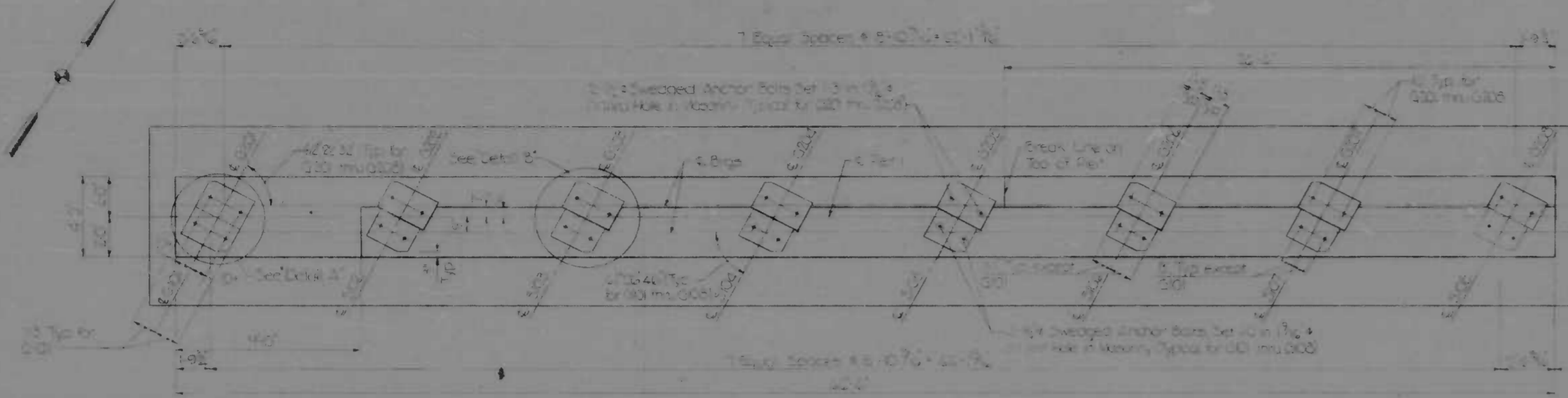


SECTION C-C
Scale: 1/2" = 1'-0"

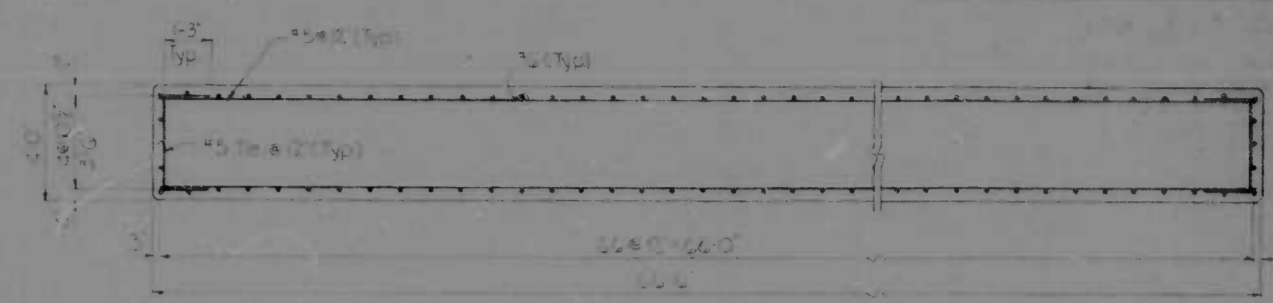
SECTION F-F
Scale: 1/2" = 1'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KNOERLE, BENDER, STONE & ASSOC., INC. MATZ CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95 WINDLASS-MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & B&O R.R. APPROACH SPAN DETAILS		DRAWN BY: JRM TRACED BY: JRM F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-915 BALTO. CITY NO.: 1995	DES. BY: MSC CHK. BY: F.F.M. SHEET NO.: 192 S-37 OF S-55
SCALE: As Shown		DATE: June 10, 1995			

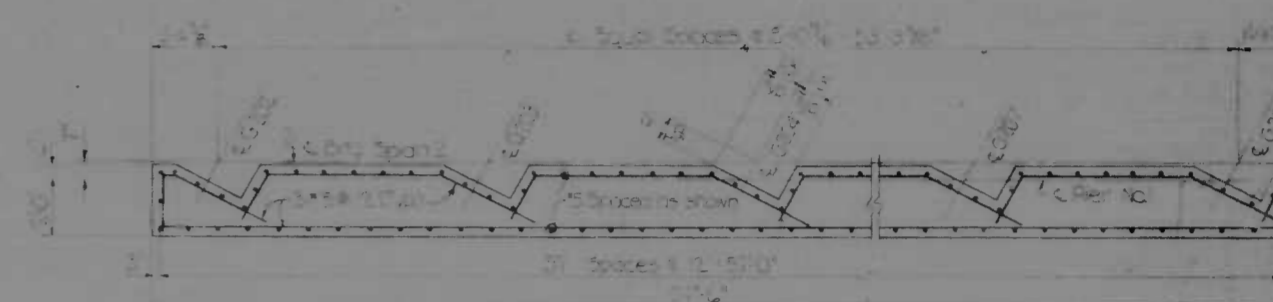
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-38	S-55



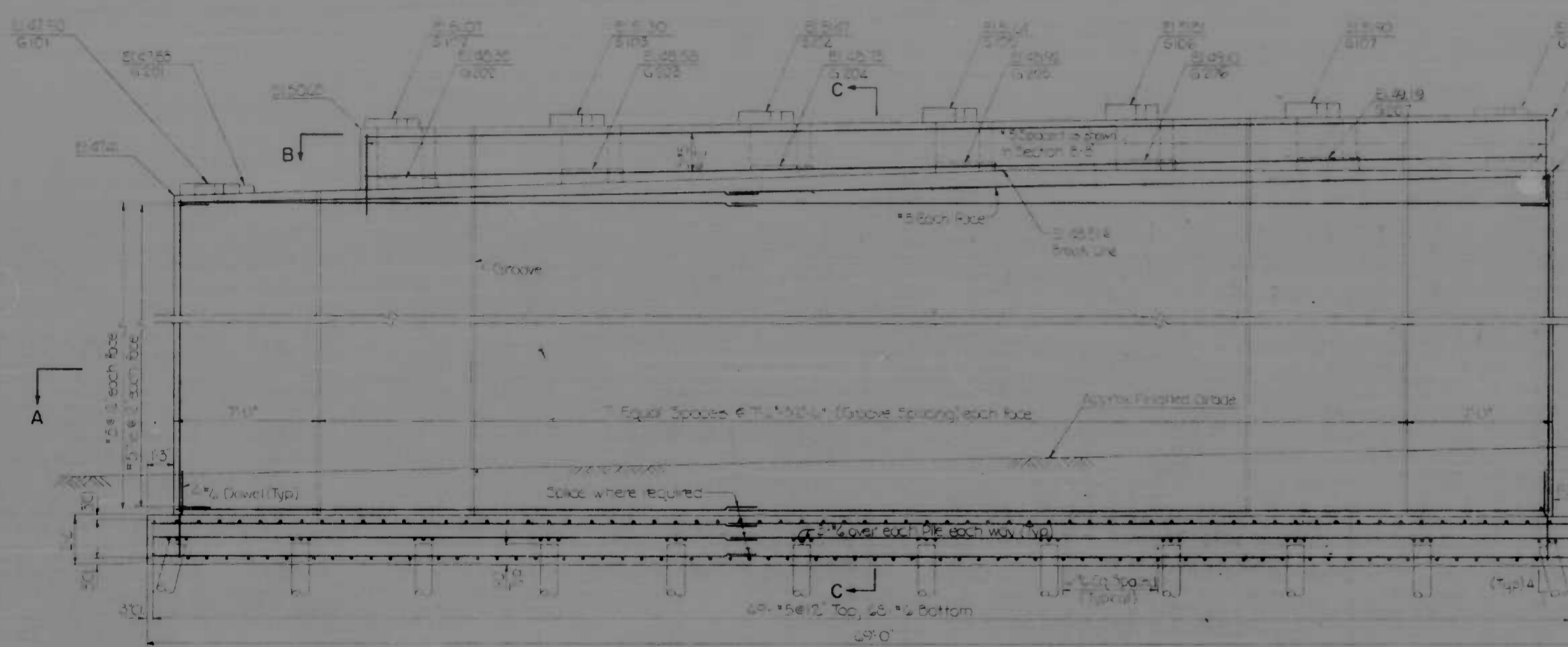
PLAN
Scale 1/4" = 1'-0"



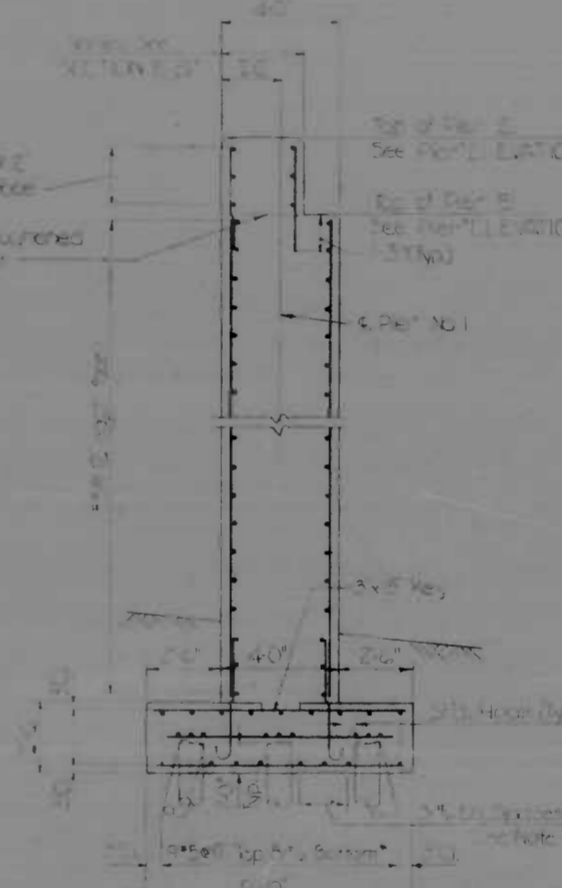
SECTION A-A
Scale 1/4" = 1'-0"



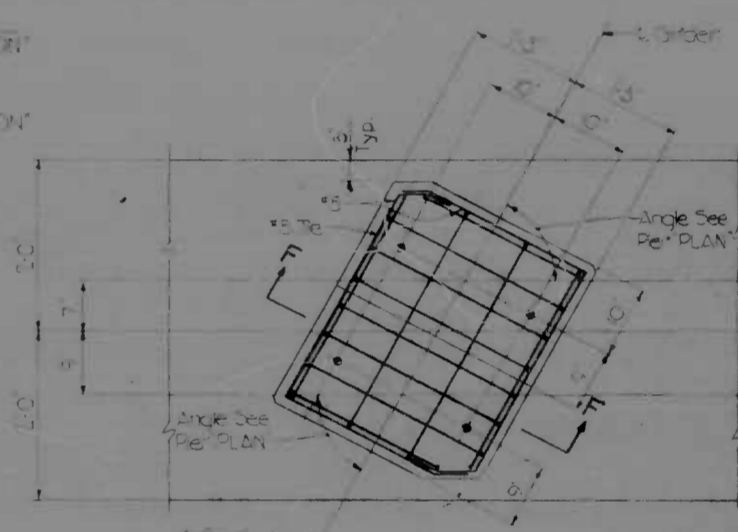
SECTION B-B
Scale 1/4" = 1'-0"



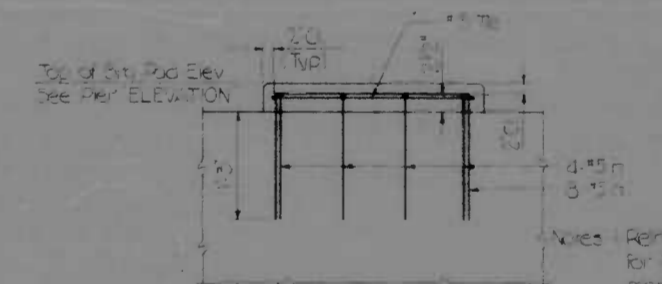
ELEVATION
Scale 1/4" = 1'-0"



SECTION C-C
Scale 1/4" = 1'-0"



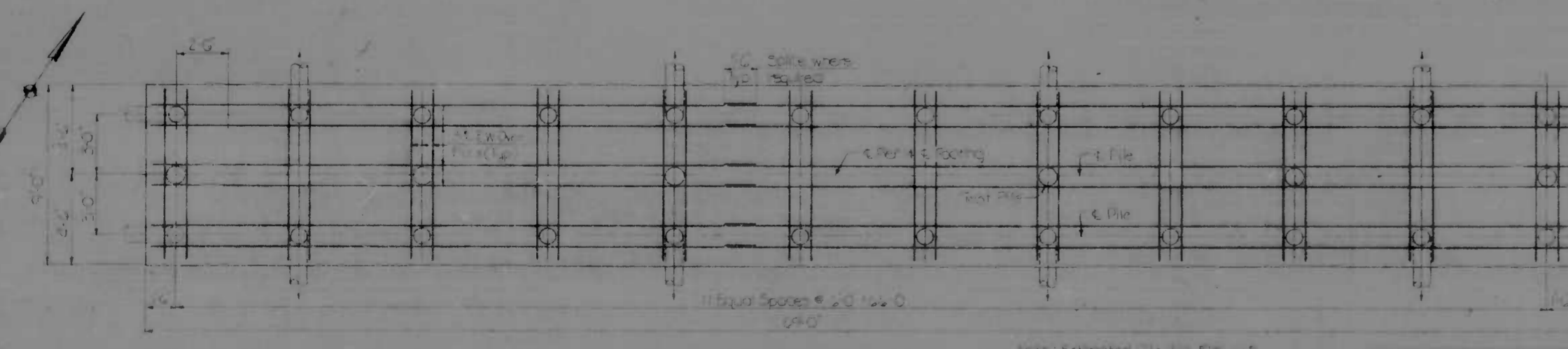
DETAIL 'A'
Scale 1/4" = 1'-0"



SECTION F-F
Scale 1/4" = 1'-0"

NOTES:
 1. Reinforcing shown in bearing piers for more in depth.
 2. Anchor bolts are not shown in Section F-F.
 3. Contractor may pour the piers in place with a substructure. He elects to do so.
 4. All piles shall be in place. Concrete Piers driven to a minimum safe bearing value of 50 tons or to practical refusal.

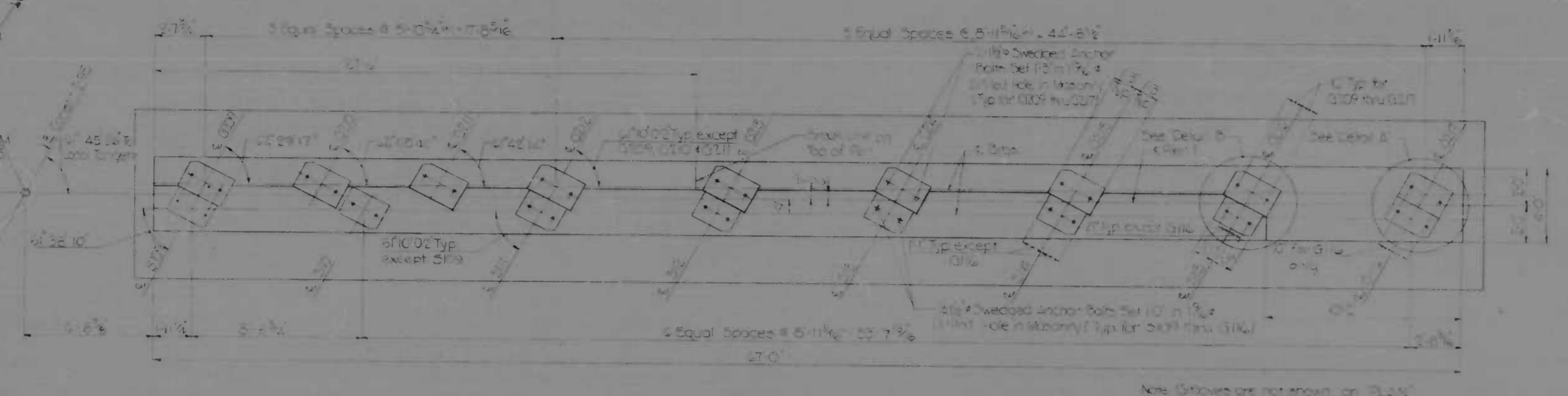
REVISIONS		CONSULTANT		CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		KROENIG, DENVER, STONE & ASSOC., INC. AND SATZ, DURAN & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202		I-95-WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O RR PIER NO. 1 SBR.		DRAWN BY: L.M.W. DES. BY: C.Y.T. TRACED BY: L.M.W. CHK. BY: F.F.M.	
				SCALE: As Shown DATE: June 10, 1971		F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 746-33-815 BALTO. CITY NO. 1995	
						SHEET NO. (92) S-38 of S-55	



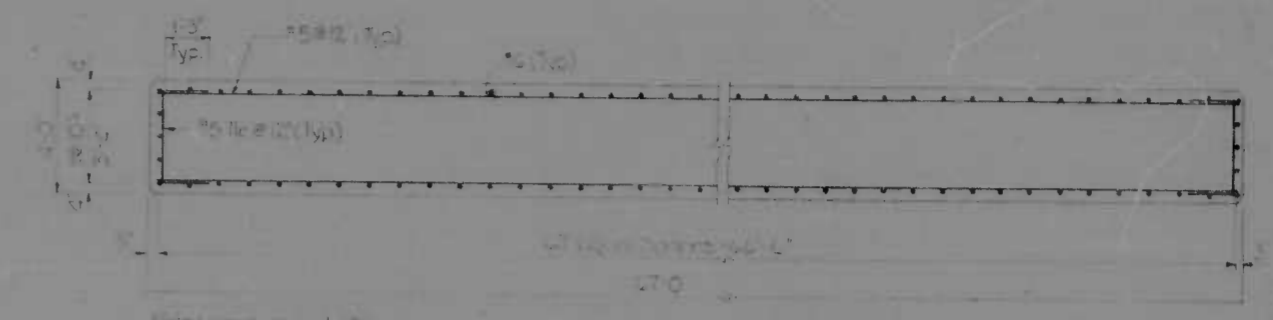
FOOTING PLAN
Scale 1/4" = 1'-0"

LEGEND:
 O indicates Pile
 □ indicates Batten Pile and Direction of Batten

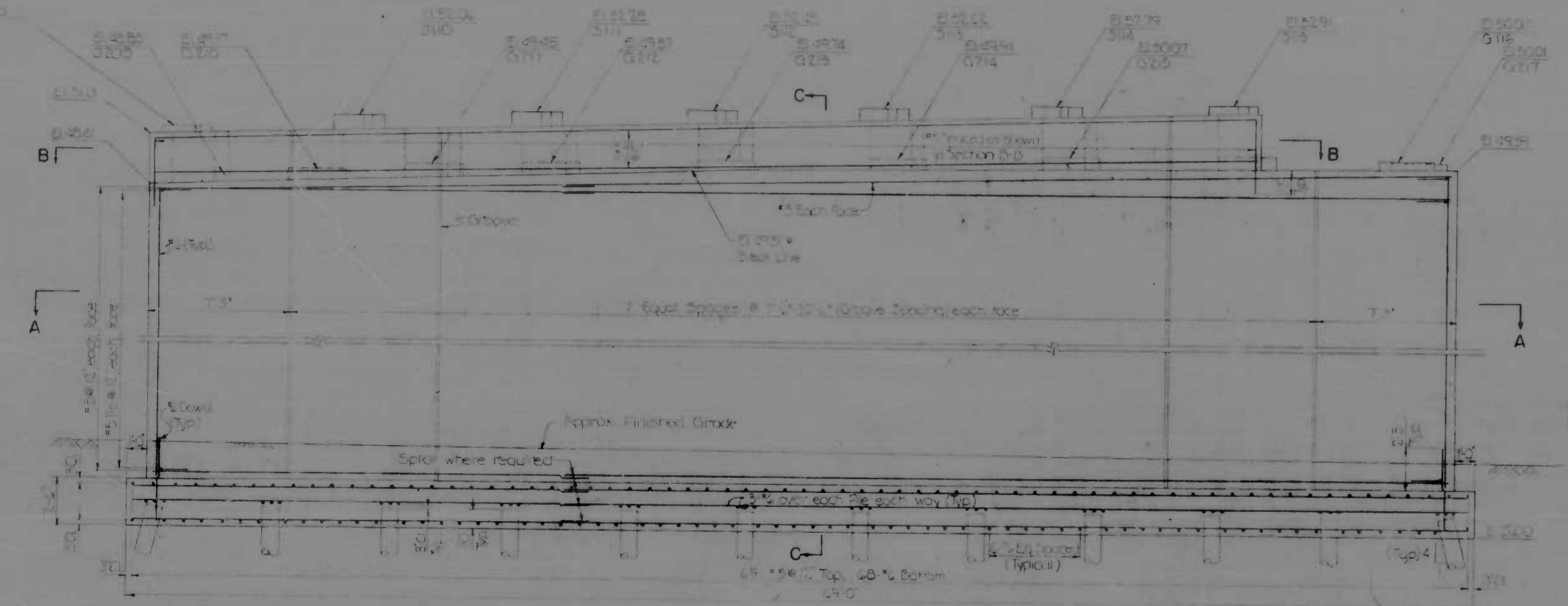
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
2	MD	I-95-4(36)36	S-39



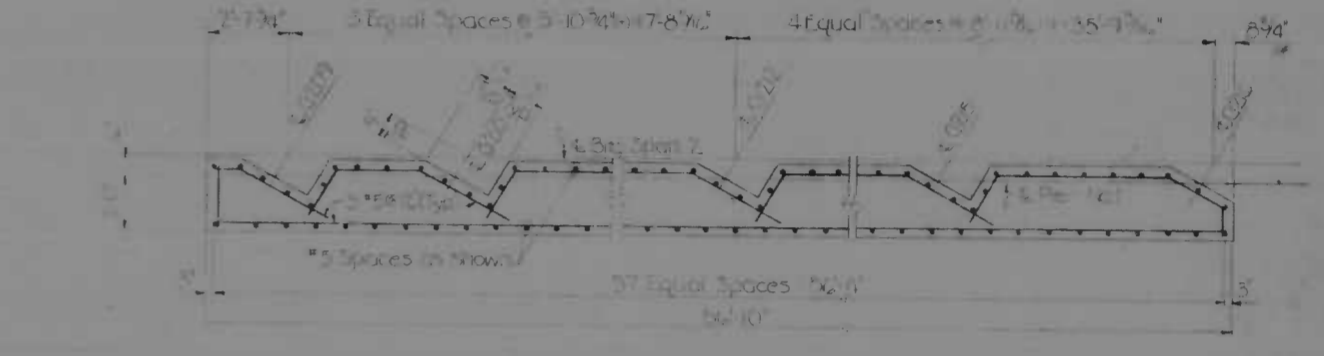
PLAN
Scale 1/8" = 1'-0"



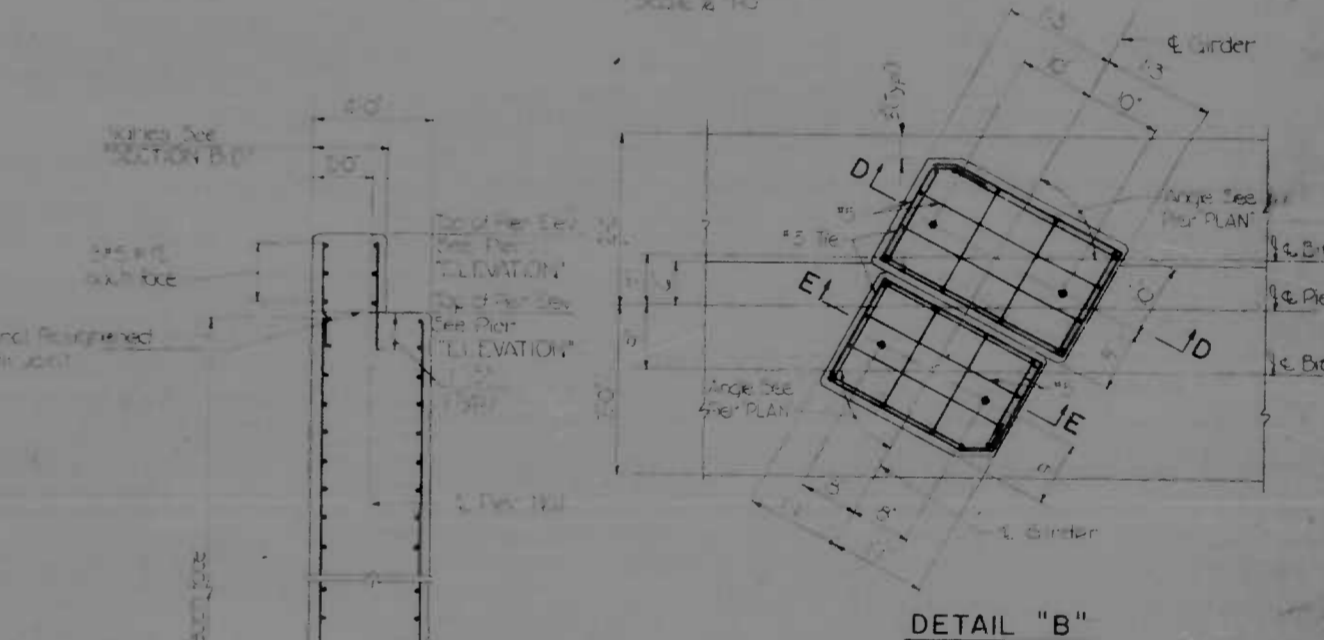
SECTION A-A
Scale 1/4" = 1'-0"



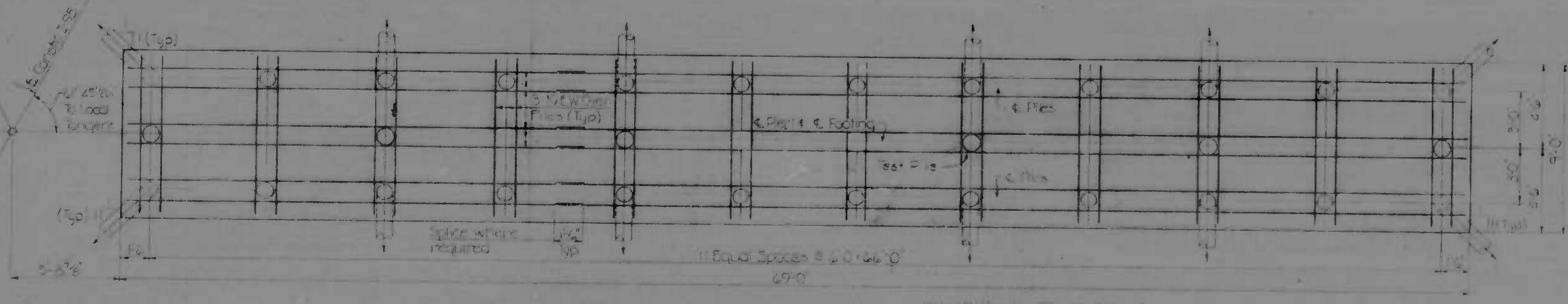
ELEVATION
Scale 1/8" = 1'-0"



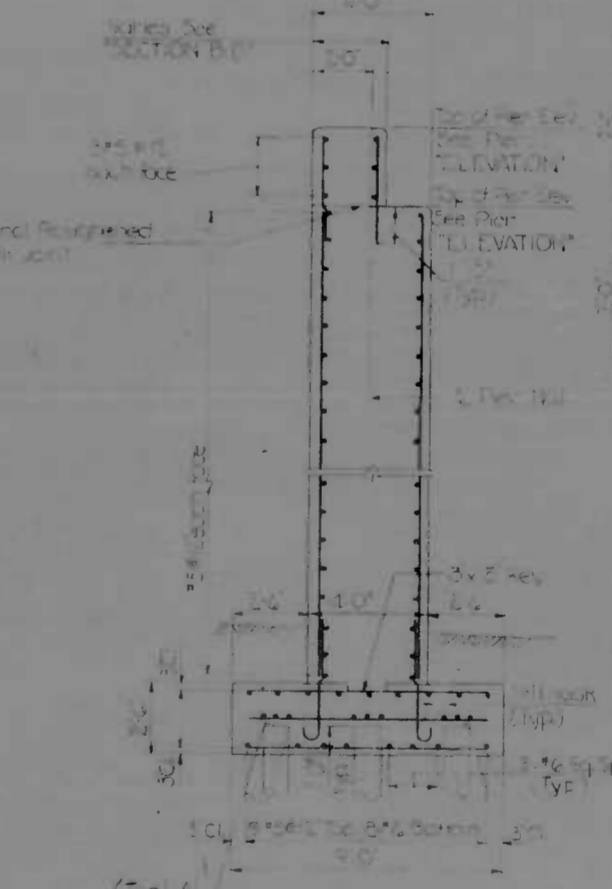
SECTION B-B
Scale 1/4" = 1'-0"



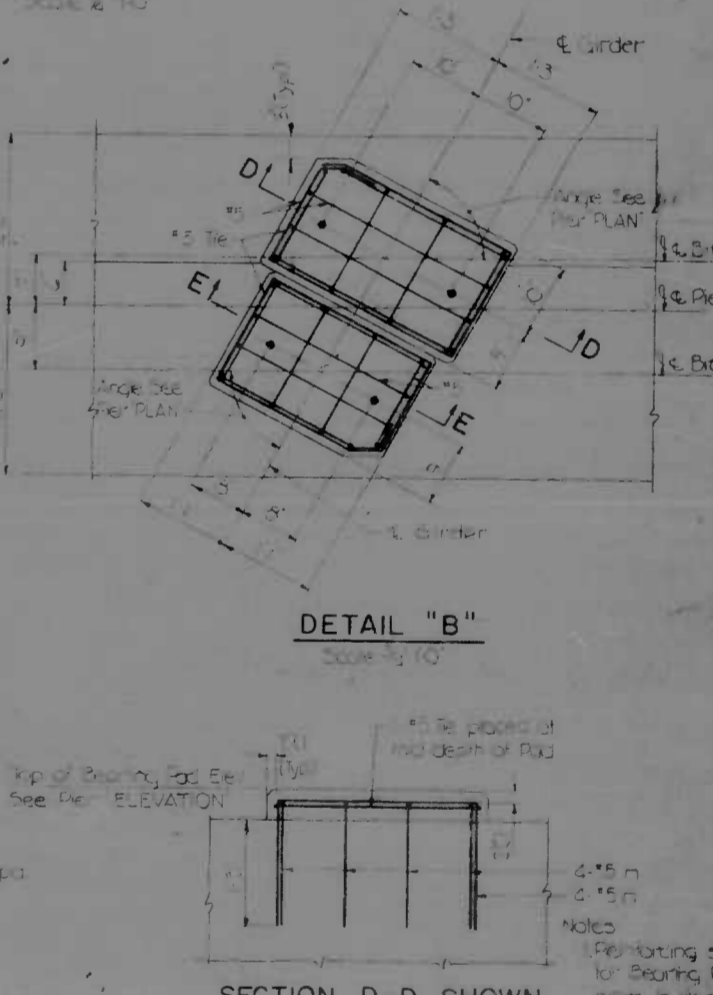
DETAIL "B"
Scale 1/4" = 1'-0"



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



SECTION C-C
Scale 1/4" = 1'-0"



SECTION D-D SHOWN SECTION E-E SIMILAR
Scale 1/4" = 1'-0"

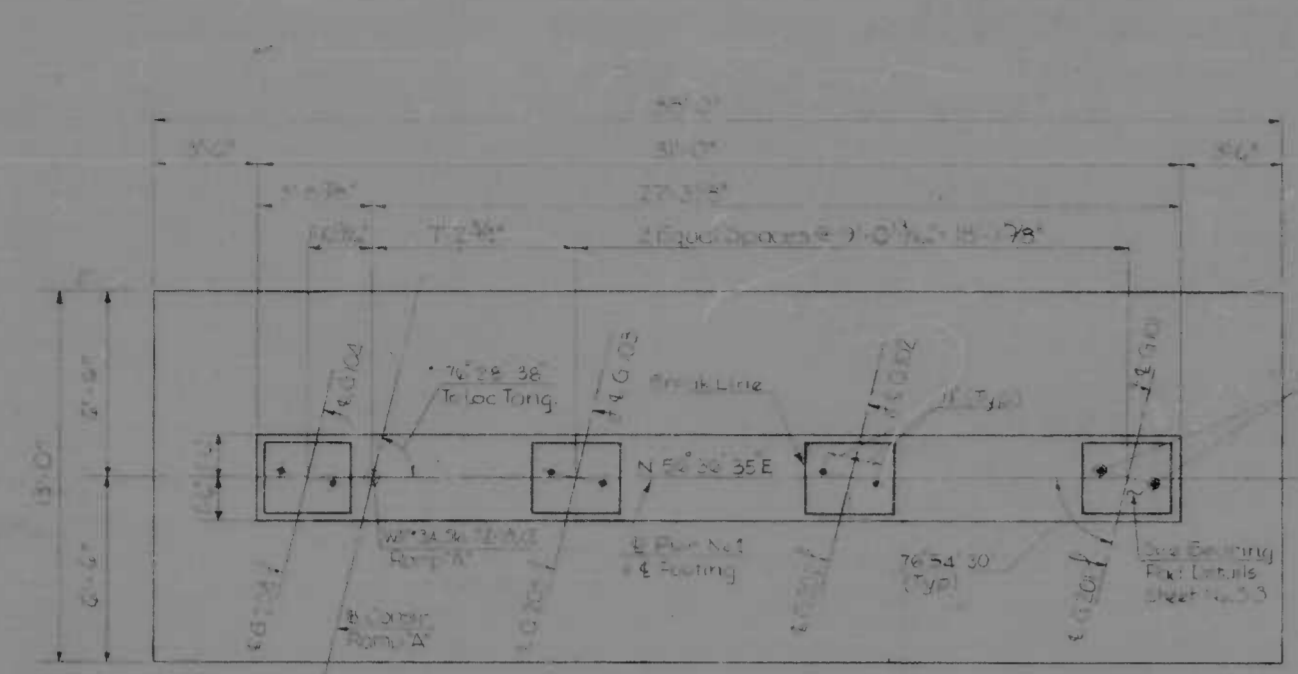
LEGEND
 -○-○- indicates Plumb Pile
 -○-○- indicates Batter Pile and Direction of Batter

Note: Estimated Pile tip Elev. = 9'

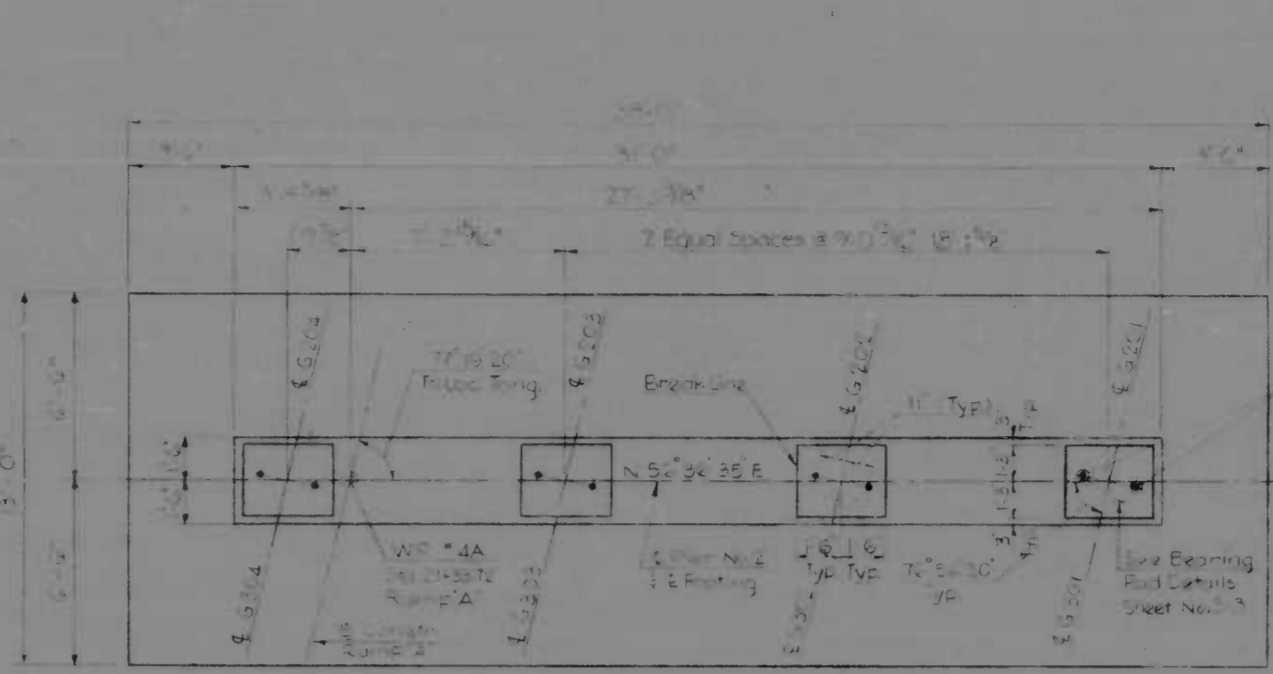
REVISIONS	CONSULTANT	CITY OF BALTIMORE	STATE ROADS COMMISSION OF MARYLAND
	KNORRLE, BROWN, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET TIMORE, MARYLAND 21220	DEPARTMENT OF PUBLIC WORKS & I-95 WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O RR PIER NO. 1 MBR	INTERSTATE DIVISION FOR BALTIMORE CITY
		SCALE: As Shown	DATE: MAY 13, 1971
		DRAWN BY: L.M.W. TRACED BY: L.M.W.	DES. BY: K.S.J. CHK. BY: F.F.M.
		F.A.P. NO. I-95-4(36)36	SHEET NO. 192
		S.R.C. NO. BS 246-33-R-5	S-39 of S-55
		BALTO. CITY NO. 1995	

NOTES:
 1. Reinforcing shown is for Bearing Piles 4 or more in depth.
 2. Anchor bolts are not shown in Section D-D.
 3. Cast-in-place concrete may pour the piers and all the time it is to do so.
 4. All steel shall be 10's Manufacture. Gauge 5 coat-in-place.
 5. Concrete shall be placed in a minimum area bearing value of 60 tons or its practical natural.

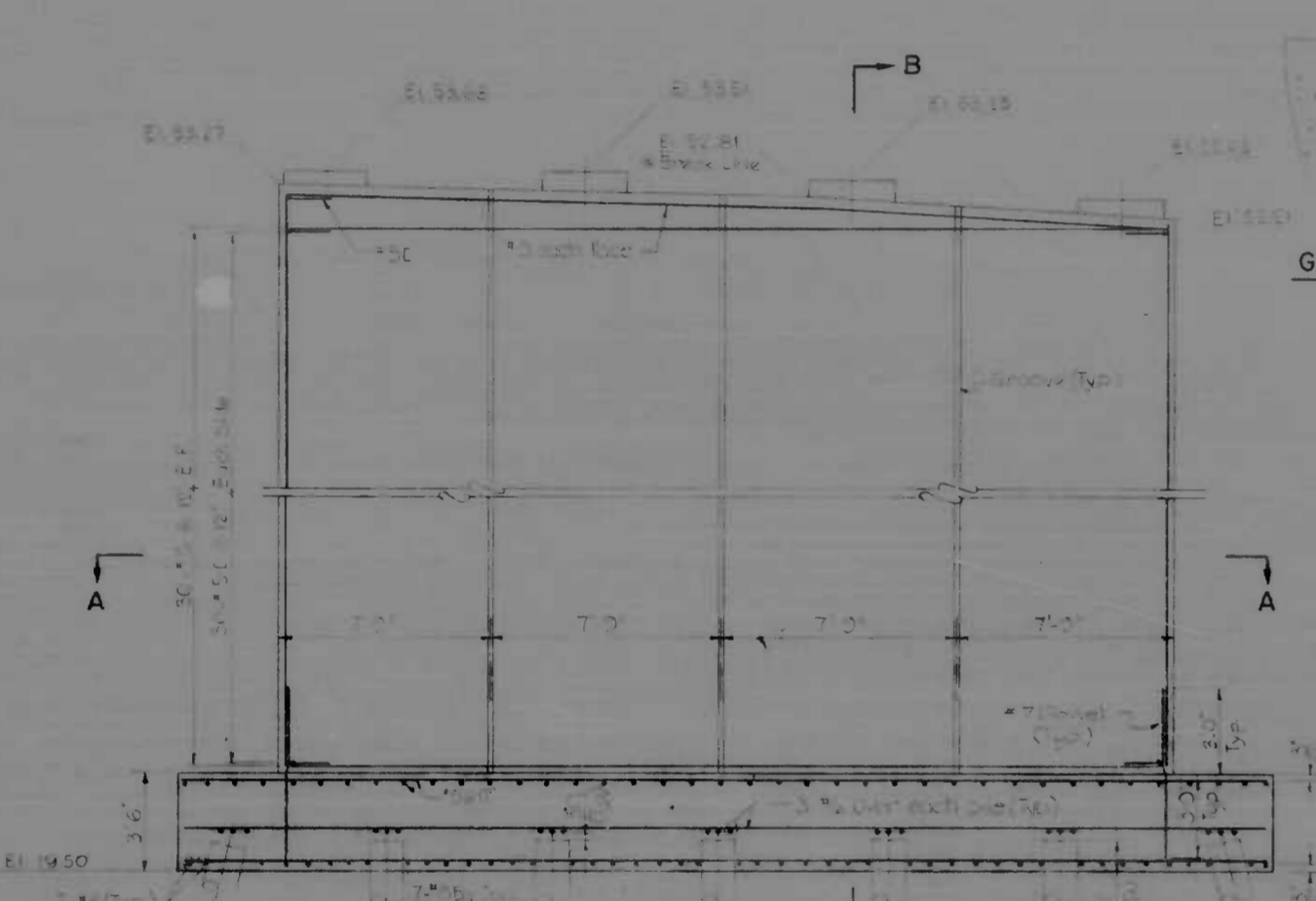
PER. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	S-4	(32)



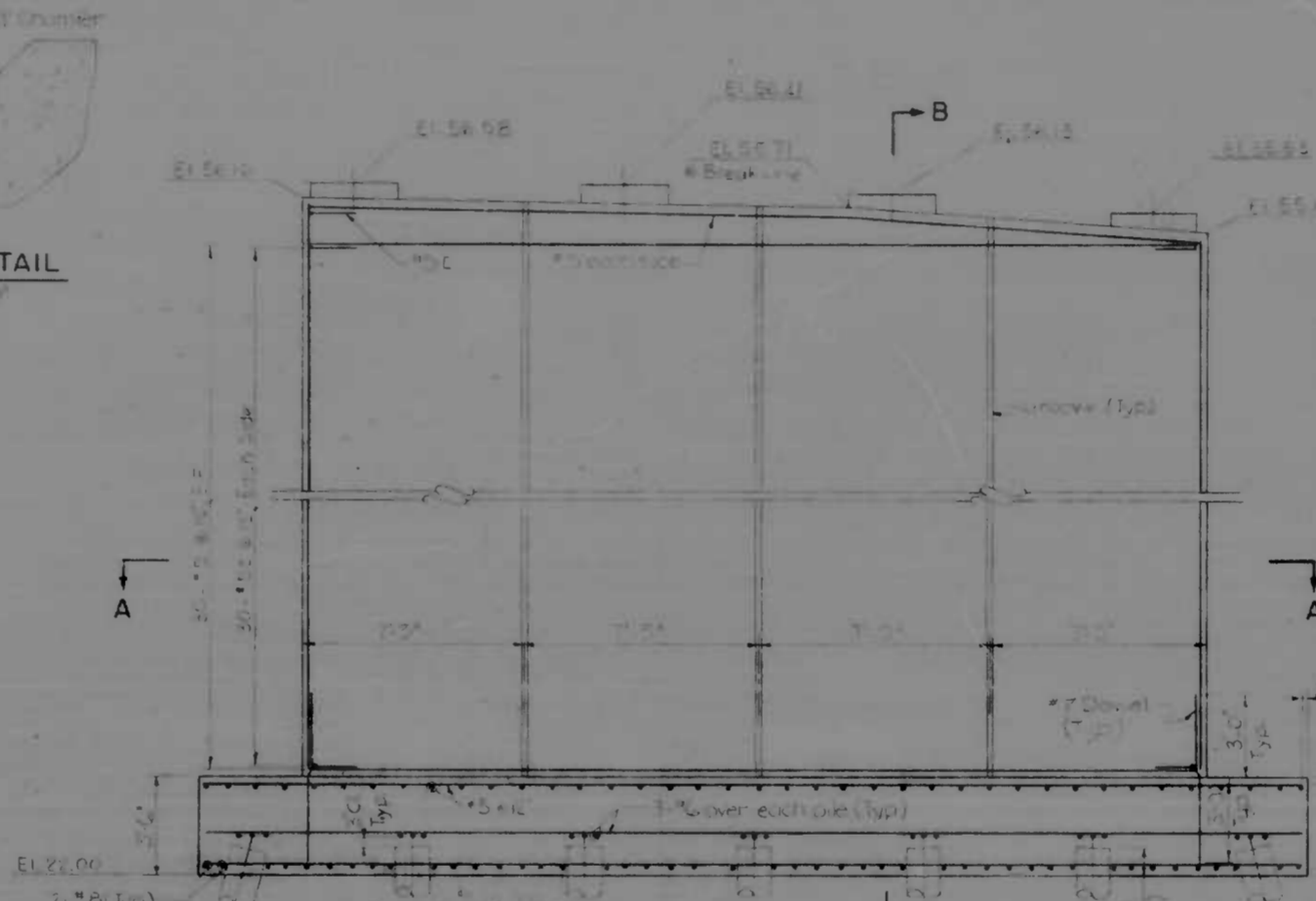
PLAN



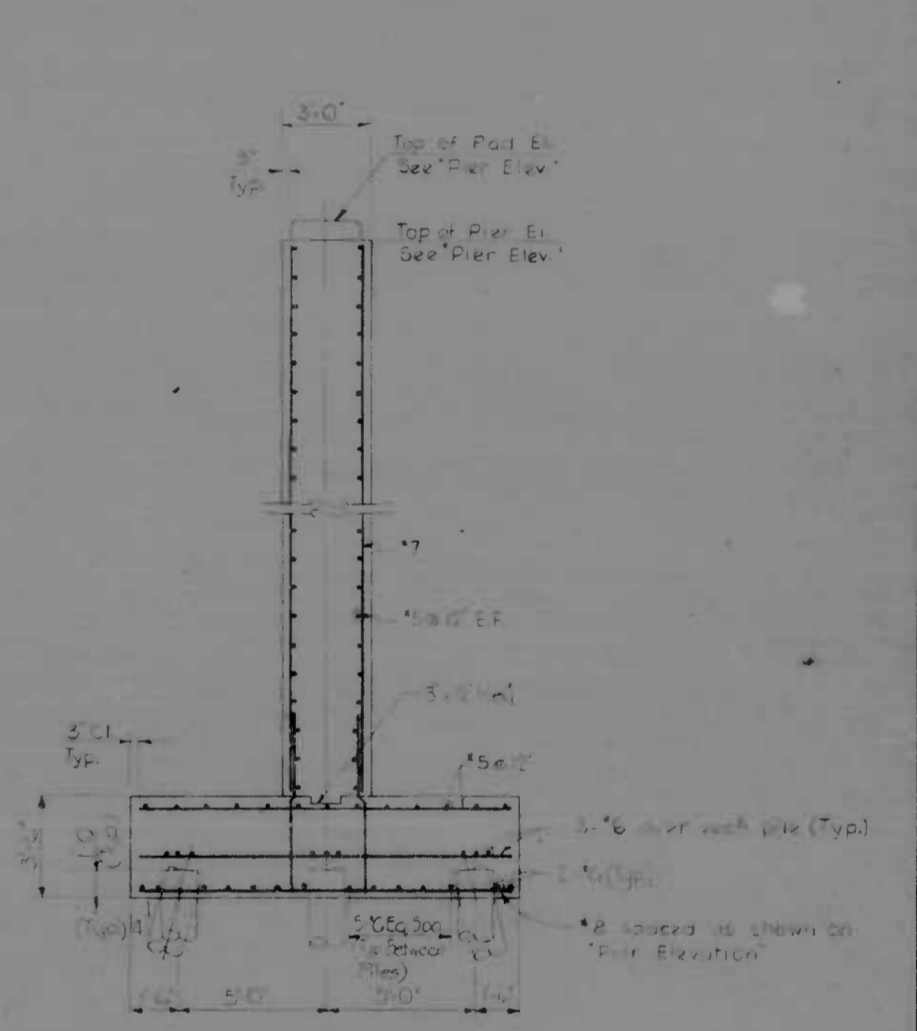
PLAN



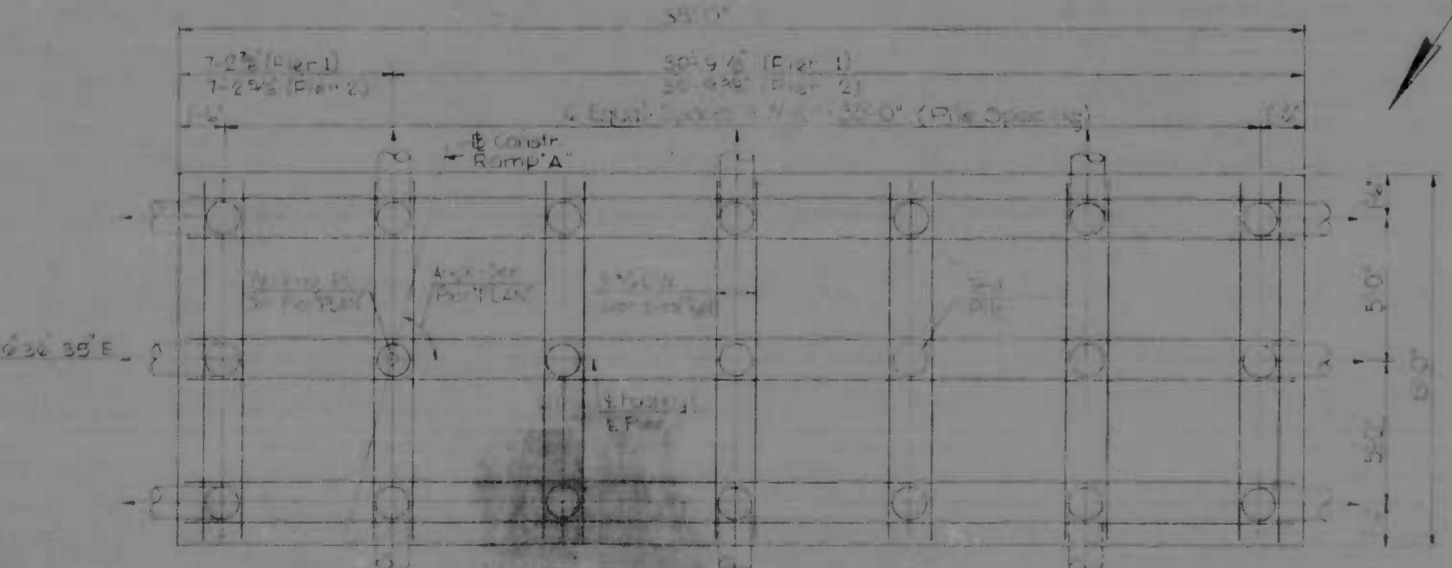
ELEVATION
PIER 1



ELEVATION
PIER 2



SECTION B-B
Scale: 1/4" = 1'-0"



FOOTING PLAN — PIER 1 & 2
Scale: 1/4" = 1'-0"

LEGEND:
 ○ indicates Pile
 □ indicates Bolt, Pile and direction of Bolt



SECTION A-A
Scale: 1/4" = 1'-0"

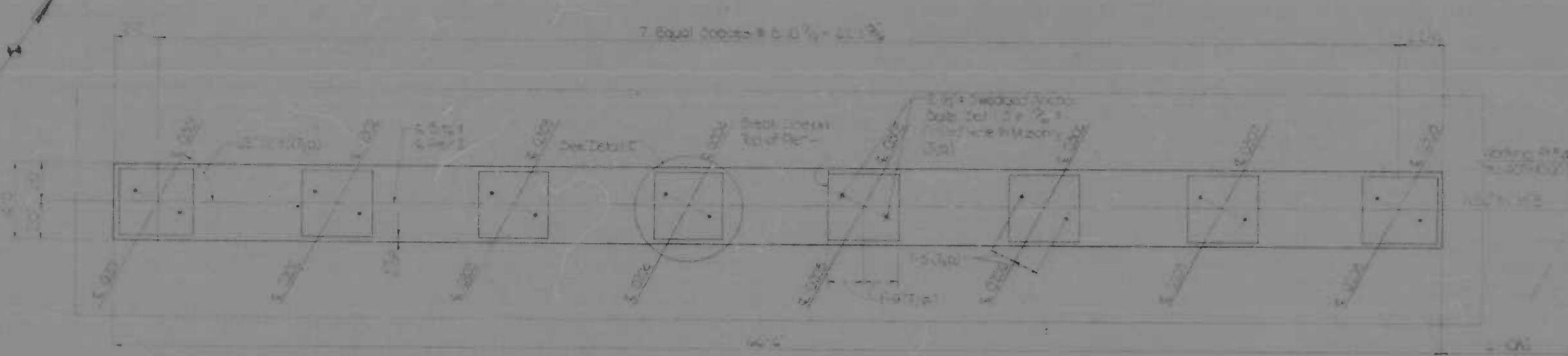
Note: All Piles shall be 12" diameter, 40' long in place. Concrete Pile shall be minimum 60' bearing value or 40 tons or to practical refusal.

REFERENCE SHEET NO.

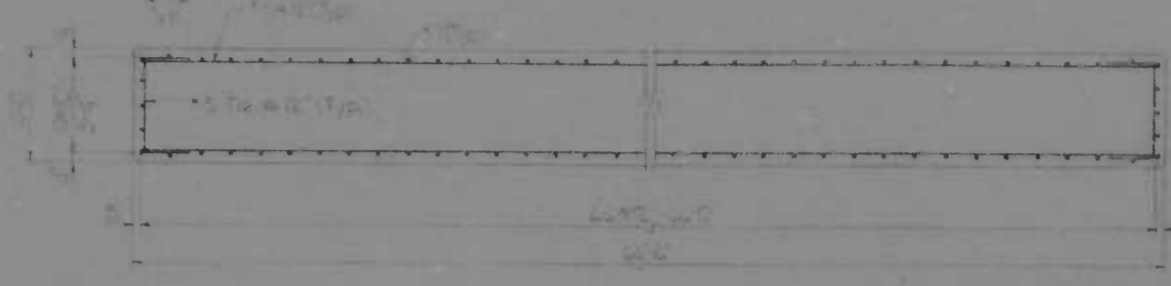
Typical Bolt Pad Details	S-3
Forming Plan	S-5

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	&	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KIMBERLE, DENNER, STONE & ASSOC., INC. AND MATT, GUNDEL & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95-WINDLASS-MORAVIA INTERCHANGE RAMP A OVER B&O R.P. PIER Nos. 1 & 2		DRAWN BY: E.W. TRACED BY: F.W. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: PC 246-33-BIS BALTO. CITY NO.: 1995
		SCALE: As Shown	DATE: 10/2/95	DES. BY: W.J.W. CHK. BY: F.F.M. SHEET NO.: (32) S-4 OF S-55

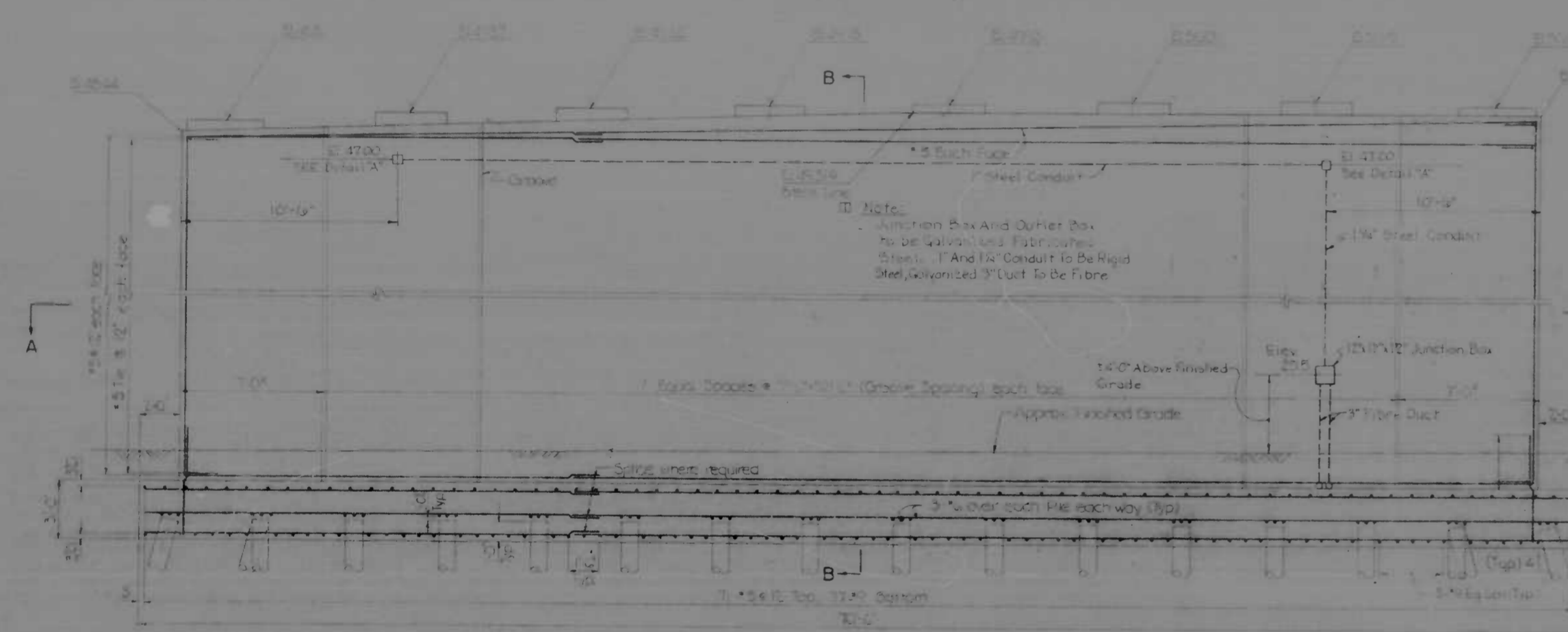
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	95-436136	S-40	S-55



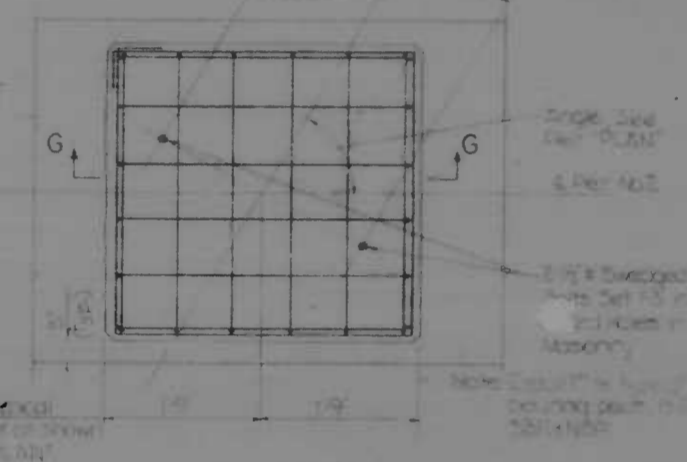
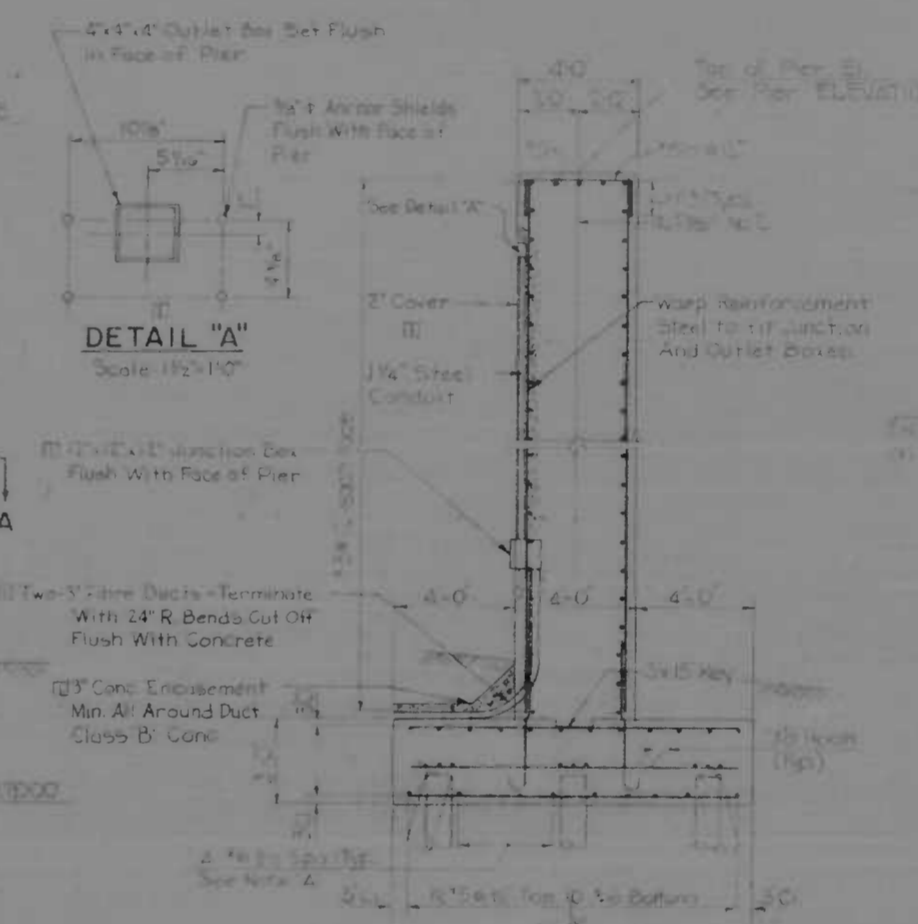
PLAN
Scale 1/4" = 1'-0"



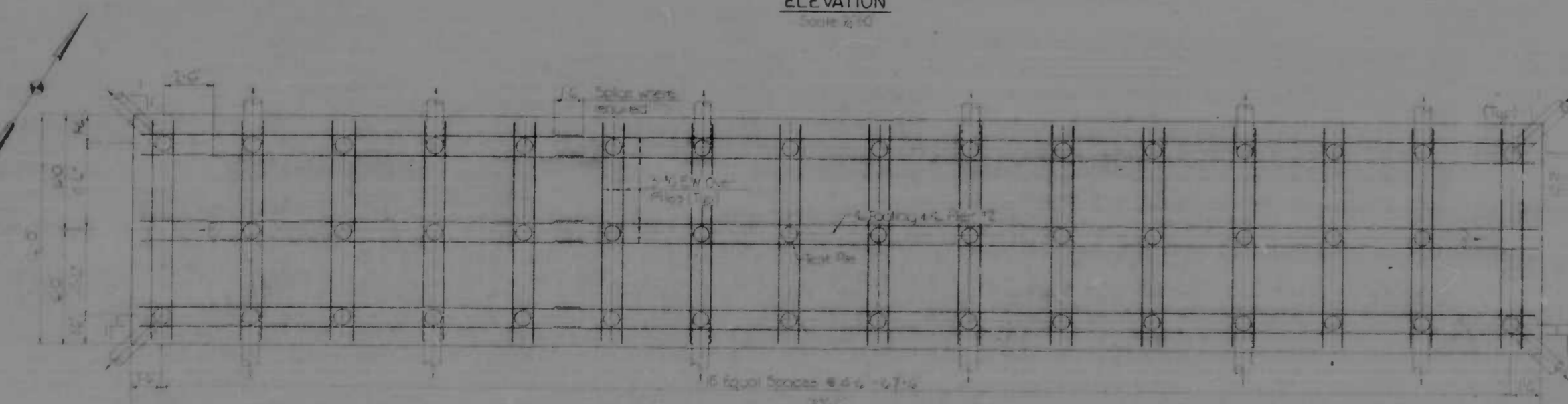
SECTION A-A
Scale 1/2" = 1'-0"



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



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



FOOTING PLAN
Scale 1/4" = 1'-0"

Note: Reinforcing shown is for reference. Contractor shall provide and install all reinforcement in accordance with the specifications and drawings. The contractor shall be responsible for the correct placement and development of all reinforcement.

REFERENCES

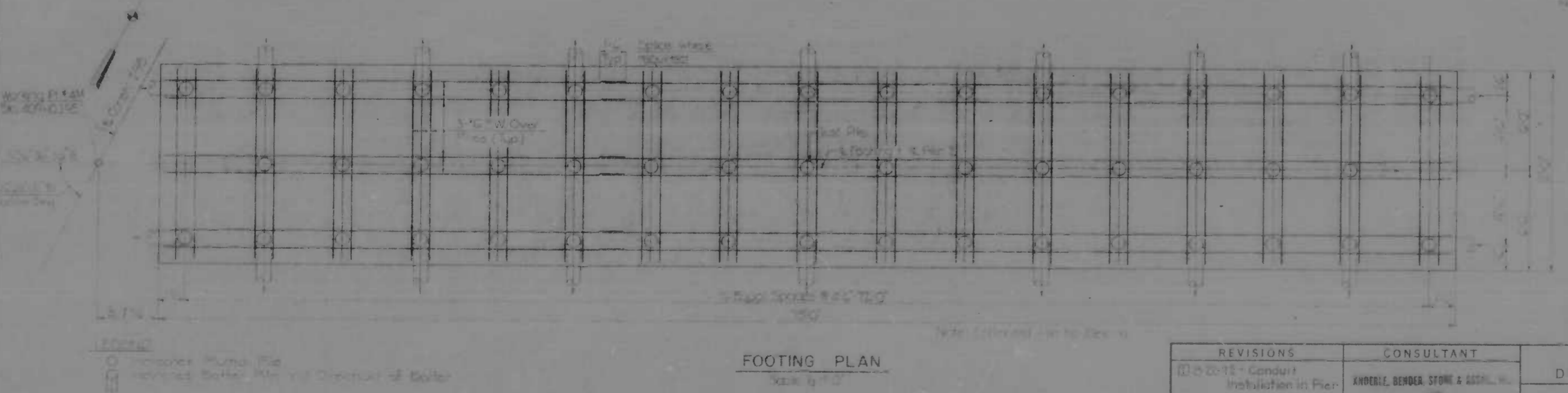
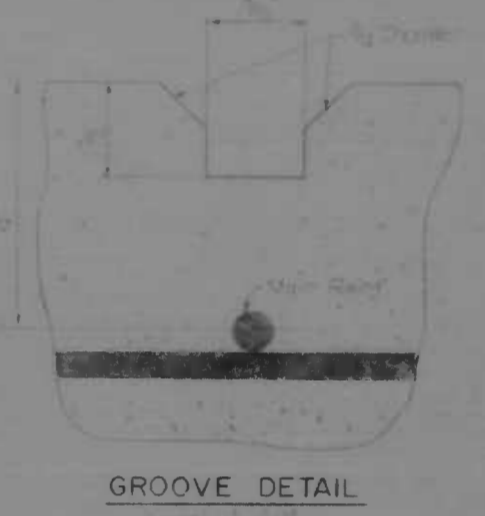
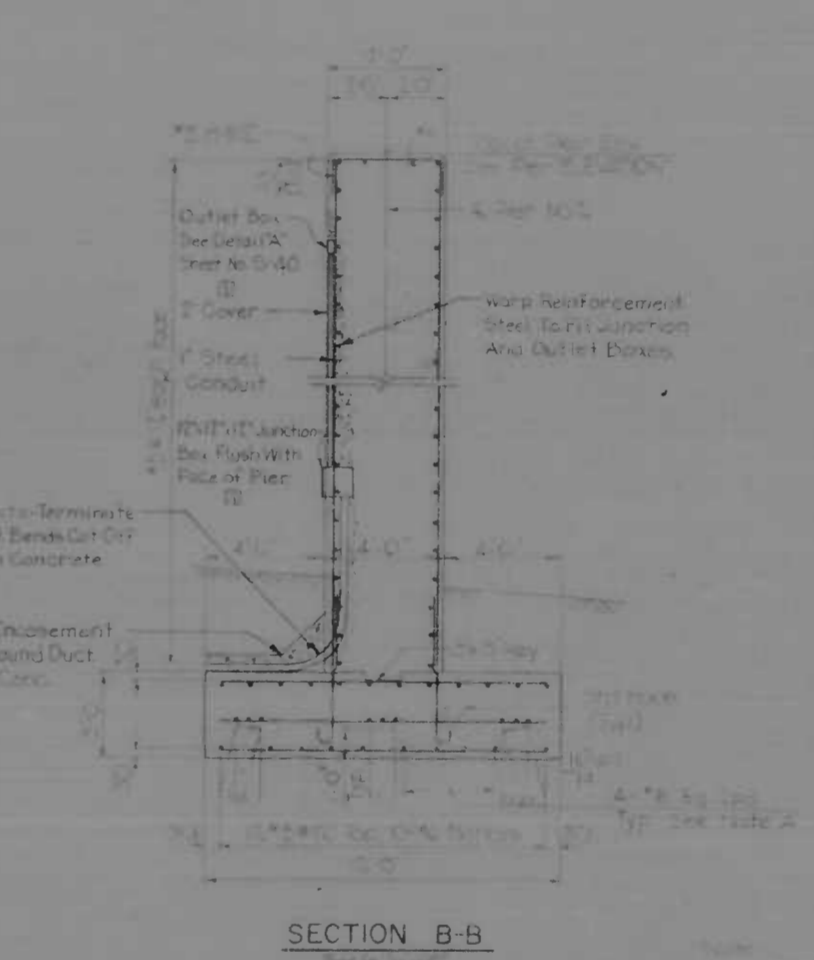
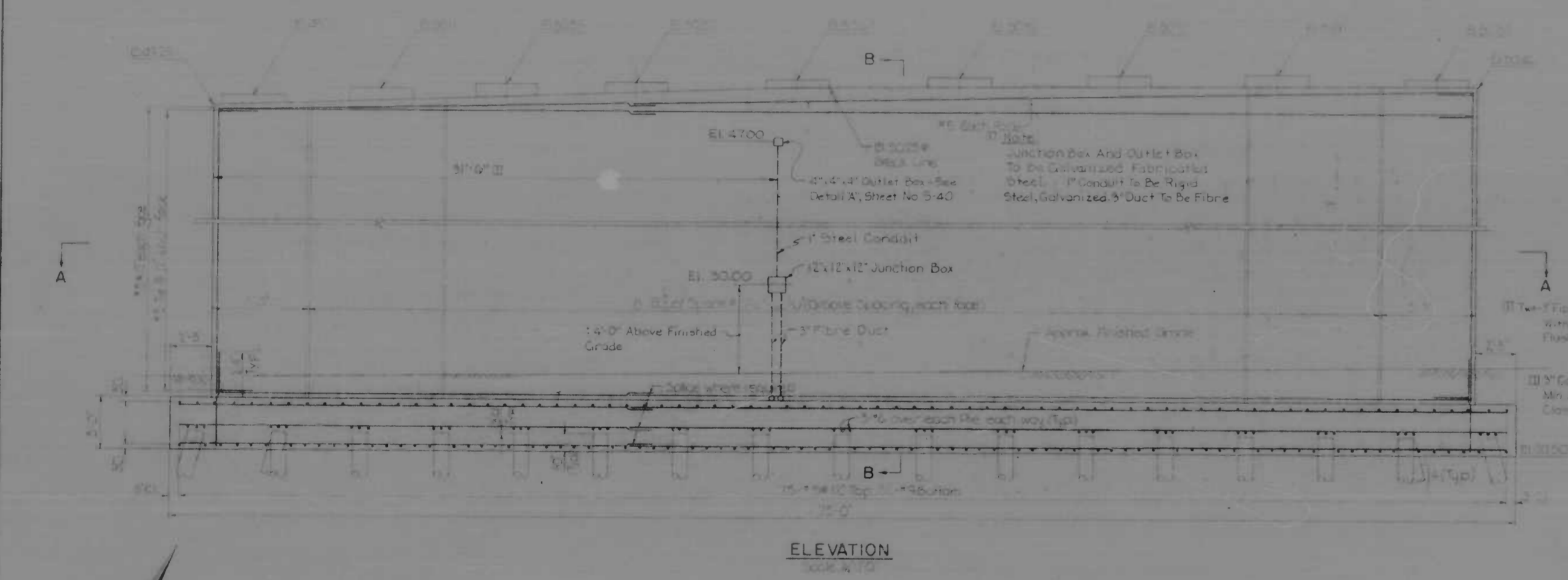
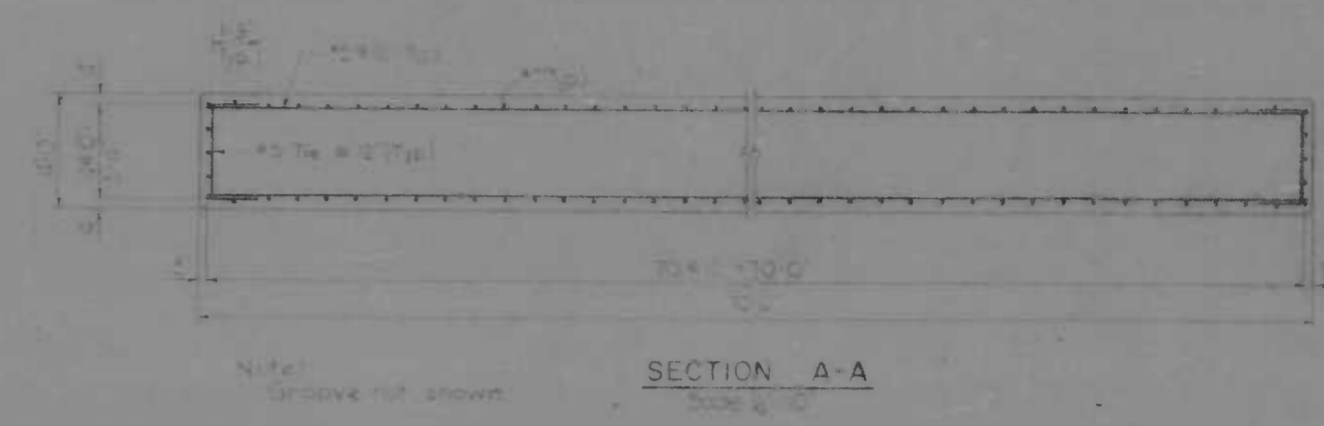
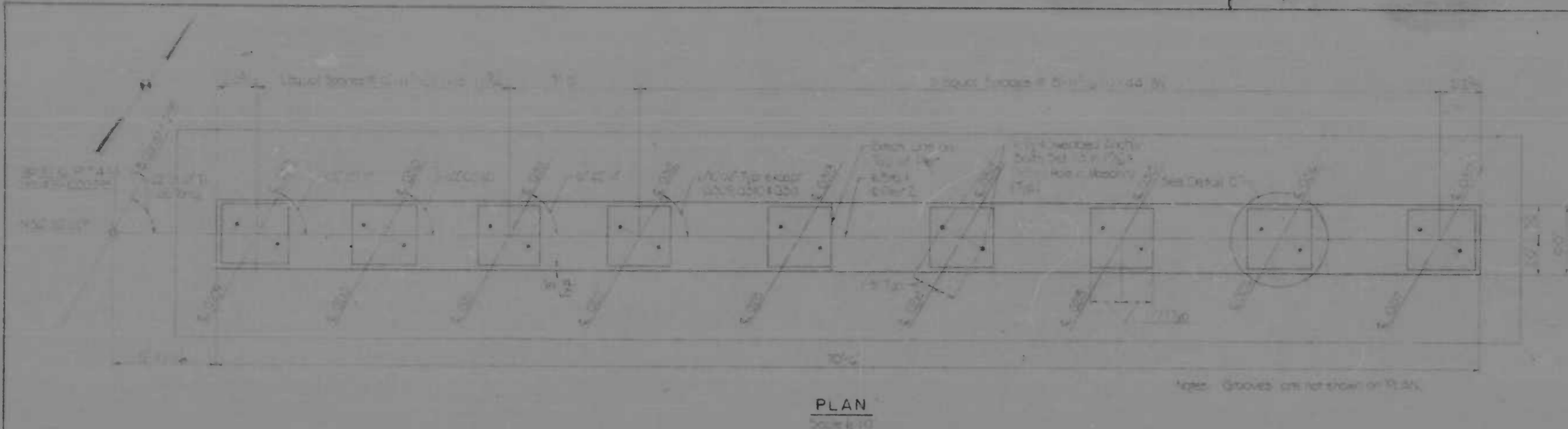
Forming Plan	S-41
Concrete Detail	S-42

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. 6" x 2" Conduit Installation in Pier	ANDERLE, BENNER, STONE & ASSOC., INC. AND HNTB, CHEN & ASSOC., INC. CONSULTING ENGINEERS 541 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLACS-MORAVIA INTERCHANGE 1-95 OVER RAMP 'B' B B&O RR PIER NO 2 SBR	DRAWN BY: M.W. TRACED BY: J.J. F.A.P. NO. 95-436136 S.R.C. NO. BC 46-32-B1E BALTO. CITY NO. 1995

LEGEND

Indicates Rebar Size and Direction of Barring

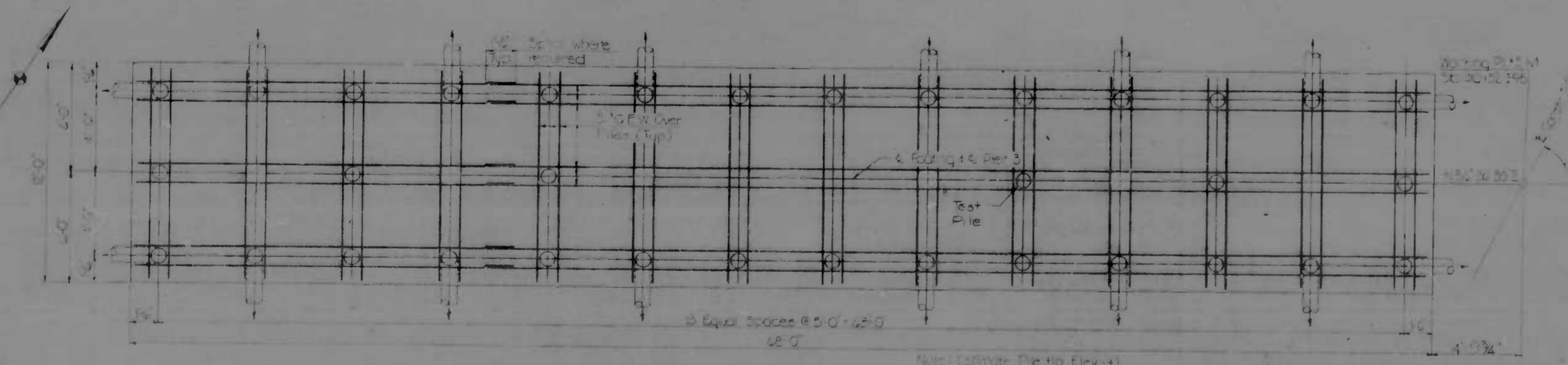
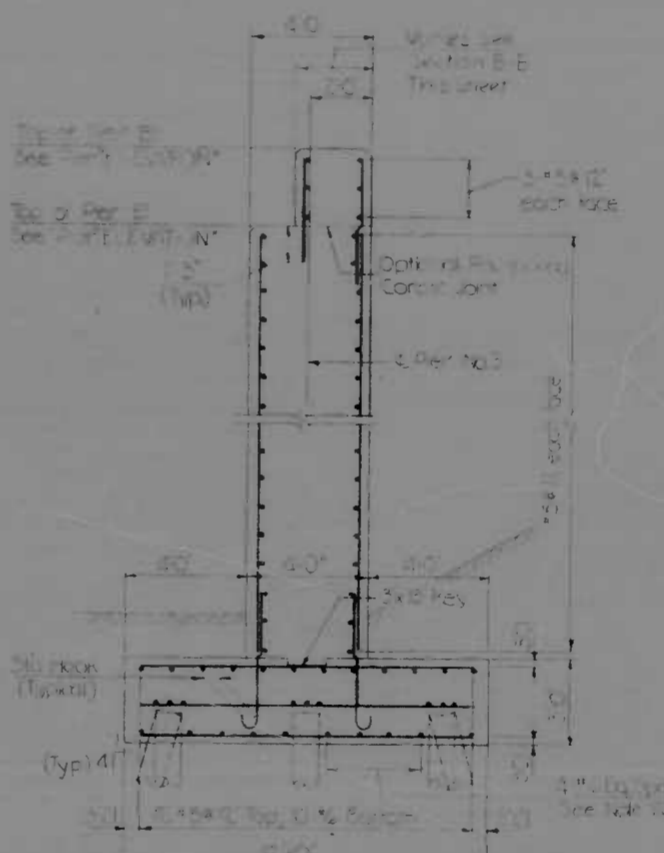
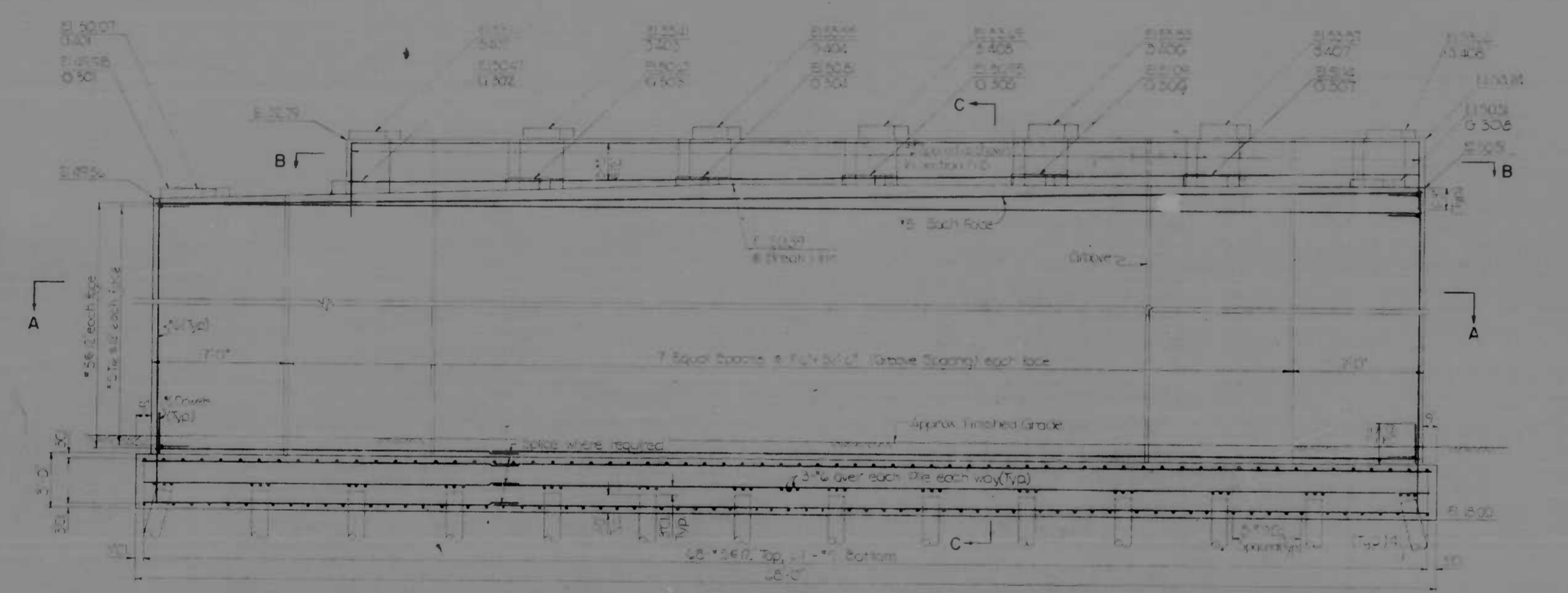
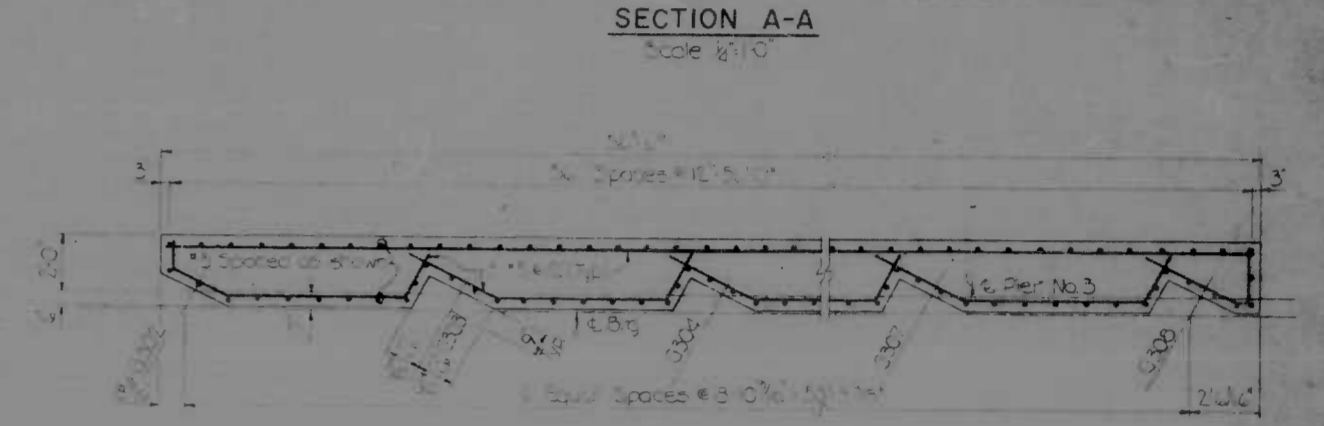
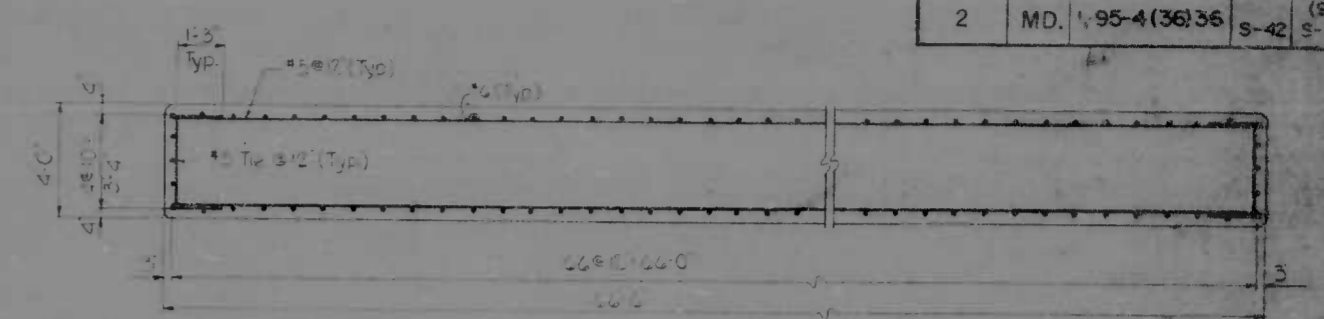
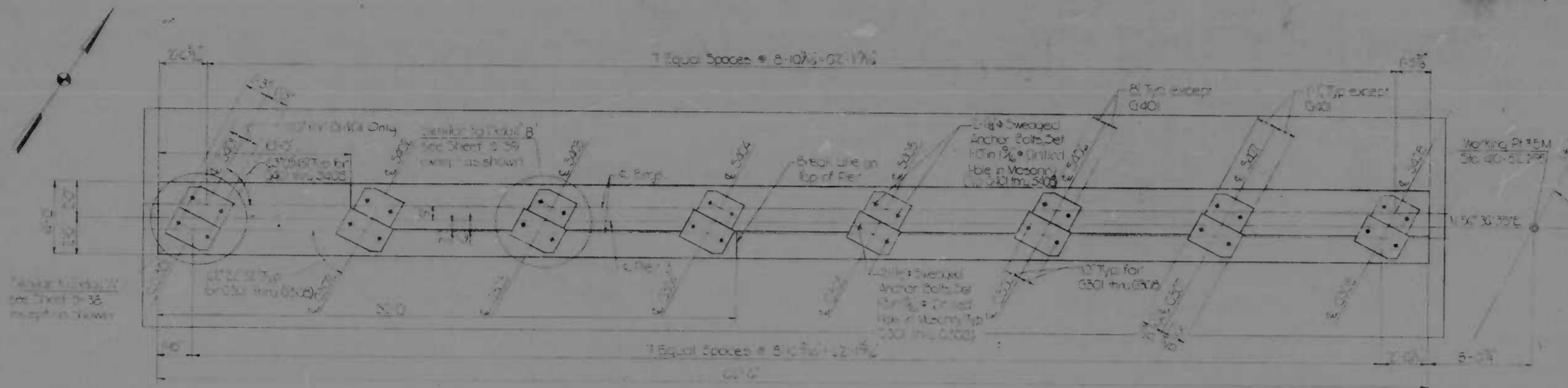
FILE NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(36)36	5-41	5-55



REFERENCE SHEET NO. 5-44

REVISIONS 1) 12" Conduit Installation in Pier	CONSULTANT ANDERLE, BENDER, SPORN & ASSOC., INC. AND WATZ, GIBLIS & ASSOC., INC. CONSULTING ENGINEERS 343 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
		I-95 WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP 'B' & B&O RR PIER NO 2 NBR		DRAWN BY: J. M. V. TRACED BY: N. M.	DES. BY: J. S. M. CHK. BY: P. F. M.
SCALE: 1/4" = 1'-0" DATE: 11/10/95		P.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: RC 246.33 B02 BALTO. CITY NO. 1995	SHEET NO. 5-41 OF 5-55		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	S-42	(92)



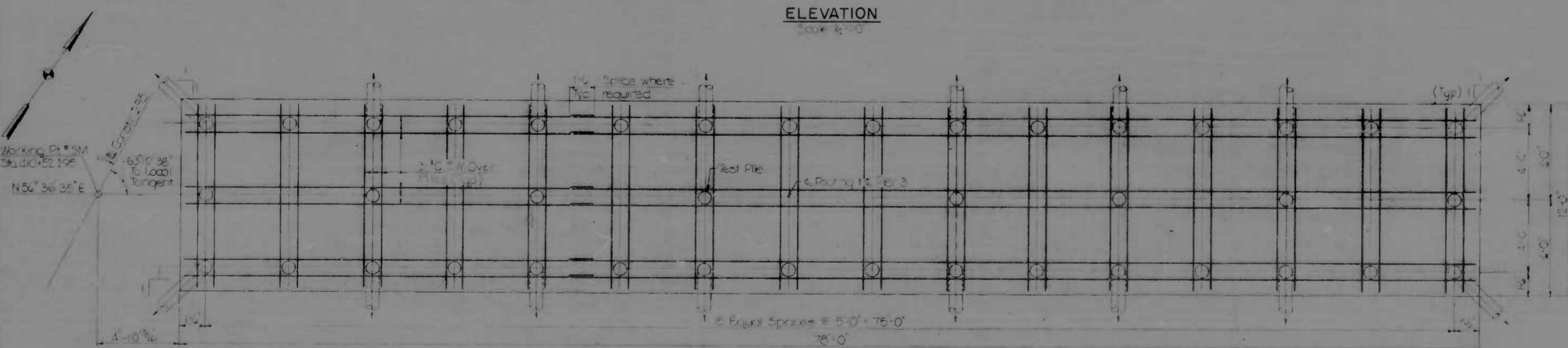
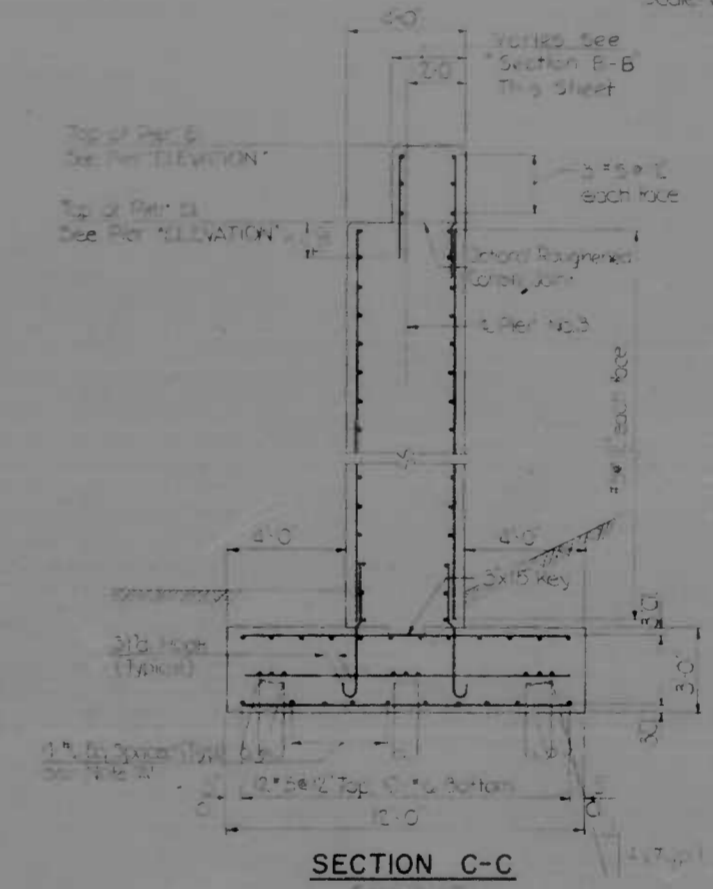
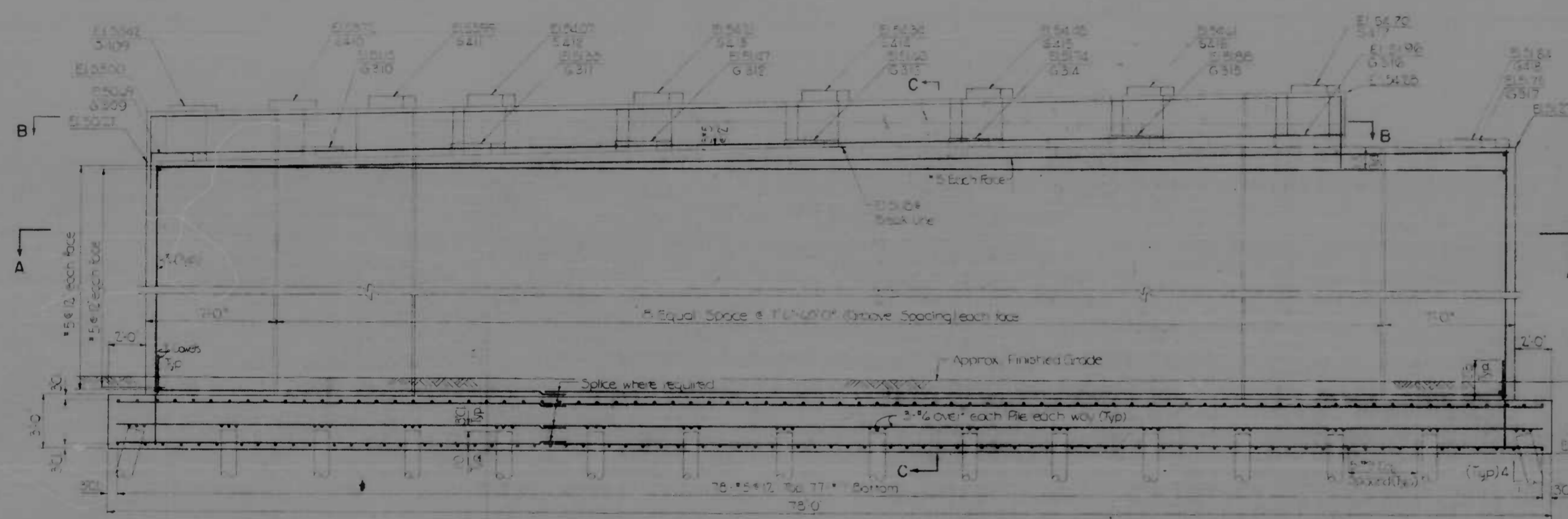
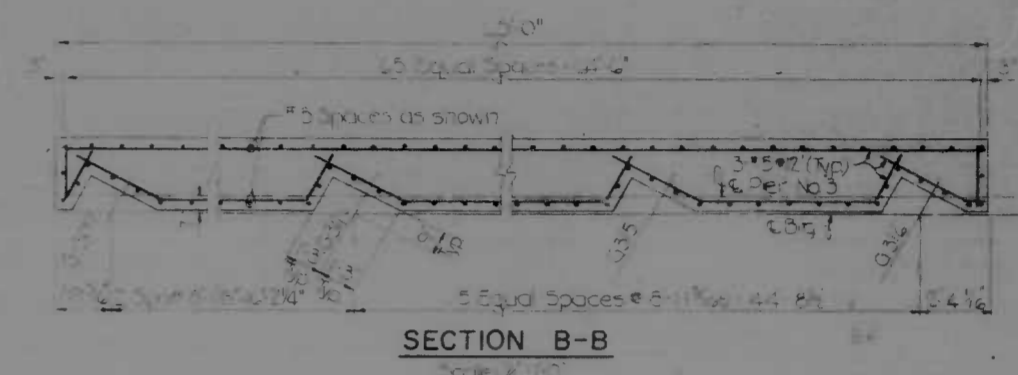
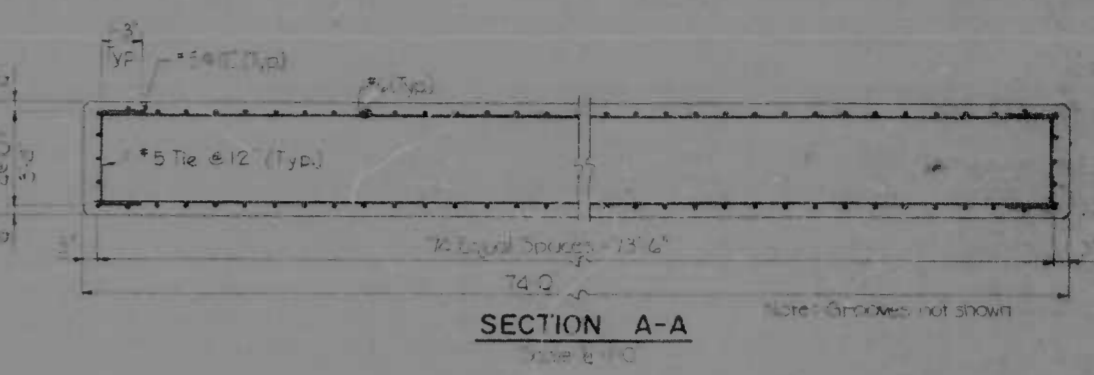
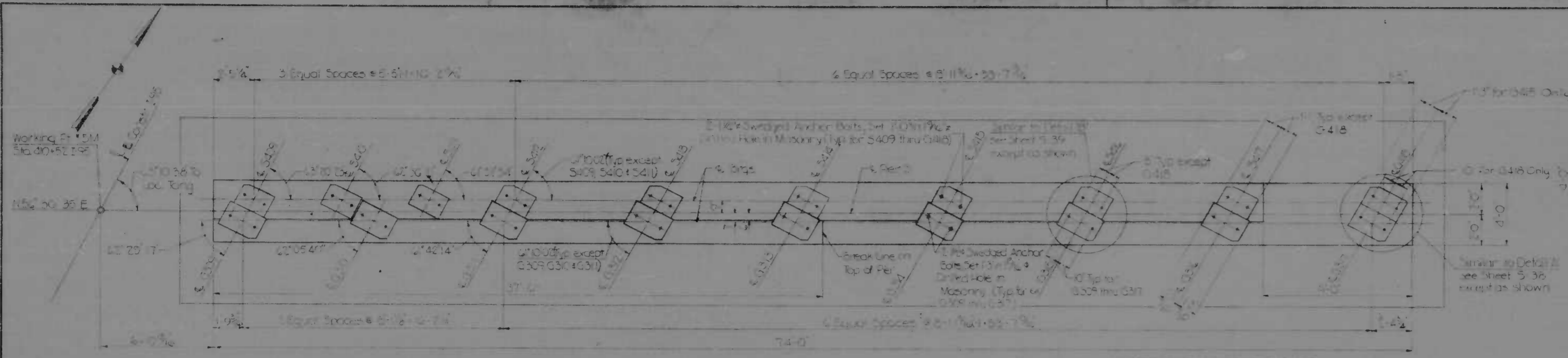
NOTE: All piles shall be 12" diameter (Design 5) cast-in-place concrete piles driven to a minimum safe bearing value of 60 tons or to practical refusal.

REFERENCES	SHEET NO.
Detail A	3-36
Detail B	3-37
Foundation Plan	3-44
Structure Detail	3-41

LEGEND
 O indicates Pile
 -C- indicates Buffer Pin and Direction of Drive

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KROEPLER, BENDER, STONE & ASSOC., INC. AND MAYZ, GARDNER & ASSOC., INC. CONSULTING ENGINEERS 941 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS-MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & B&O RR PIER NO 3 SBR.
		DRAWN BY: L.M.W. TRACED BY: L.M.W. F.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: BC-46-33-813 BALTO. CITY NO. 1995
		DES. BY: C.Y.T. CHK. BY: F.F.M. SHEET NO.: (92) S-42 of S-55
		SCALE: As Shown DATE: MAY 17, 1971

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-43	(92)

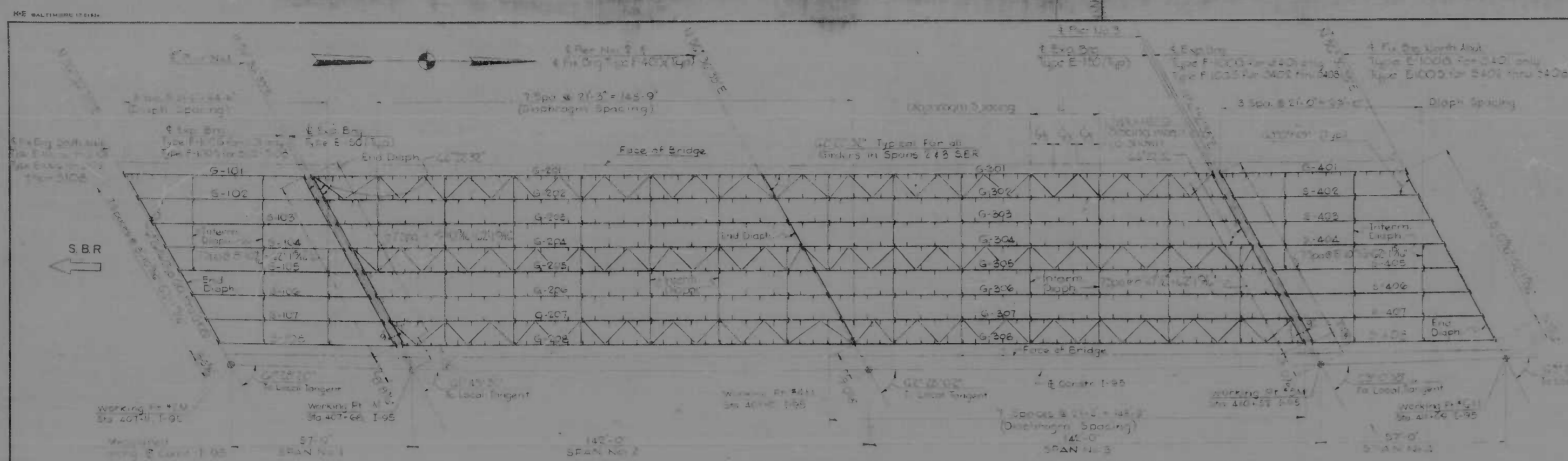


NOTE: All Piles shall be 14" Manufactured Cast-in-place Concrete Piles driven to a minimum safe bearing value of 20 TONS or to practical refusal.

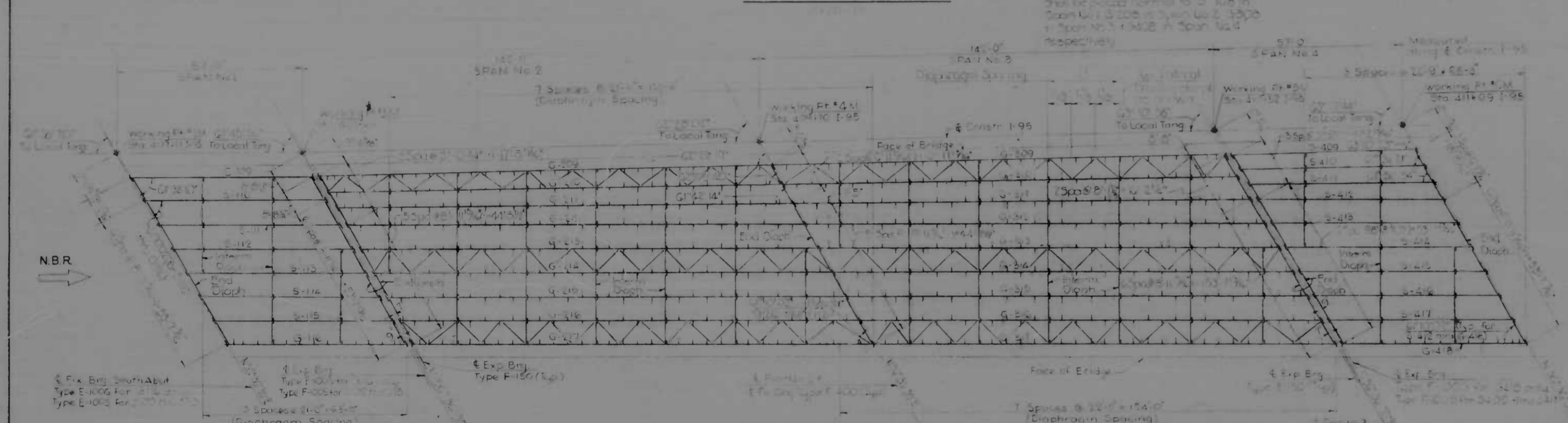
REFERENCED	SHEET NO.
Detail A	S-38
Detail B	S-39
Reinforcing Plan	S-44
Grillage Detail	S-41

LEGEND
Indicated Pile Tip indicates Butler Pile and Direction of batter

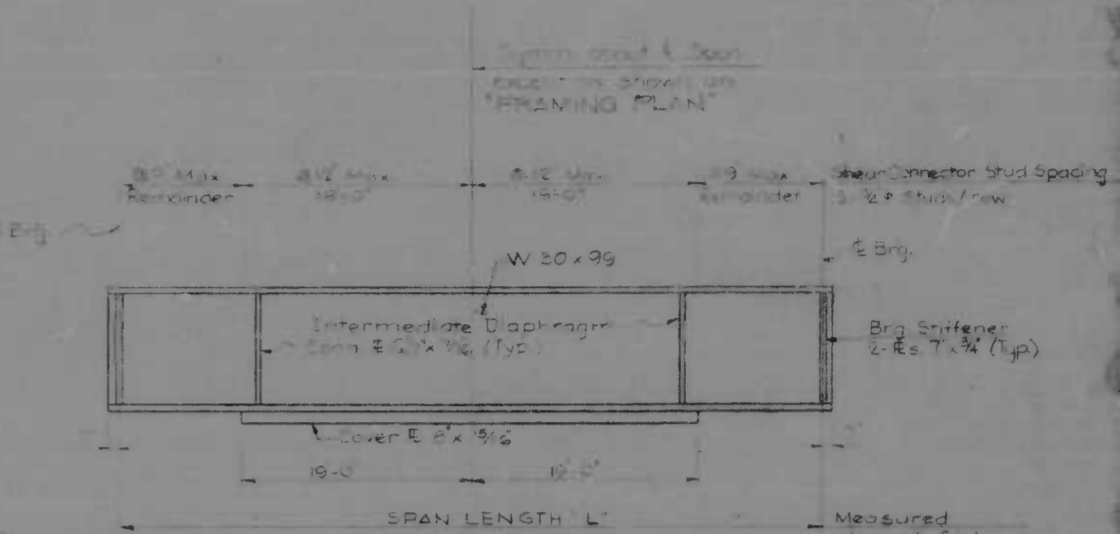
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNISSELL, BENDER, STONE & ASSOC., INC. AND WITZ, GIBBS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95 WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O R.R. PIER NO. 3 N.B.R.	DRAWN BY: L.M.W. TRACED BY: J.M.W. F.A.P. NO.: I-95-4(36)36 S.C. NO.: BC 246-33-815 BALTO. CITY NO. 1995
		DES. BY: K.S.V. CHK. BY: GFM.	SHEET NO. (92) S. 43 OF S. 55



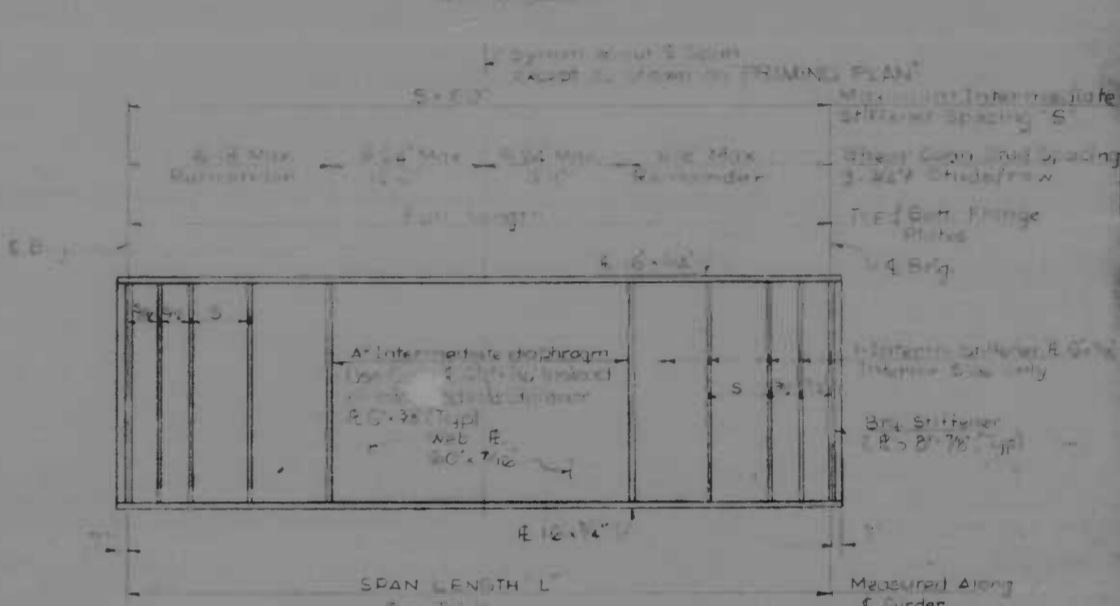
FRAMING PLAN - SBR



FRAMING PLAN - NBR

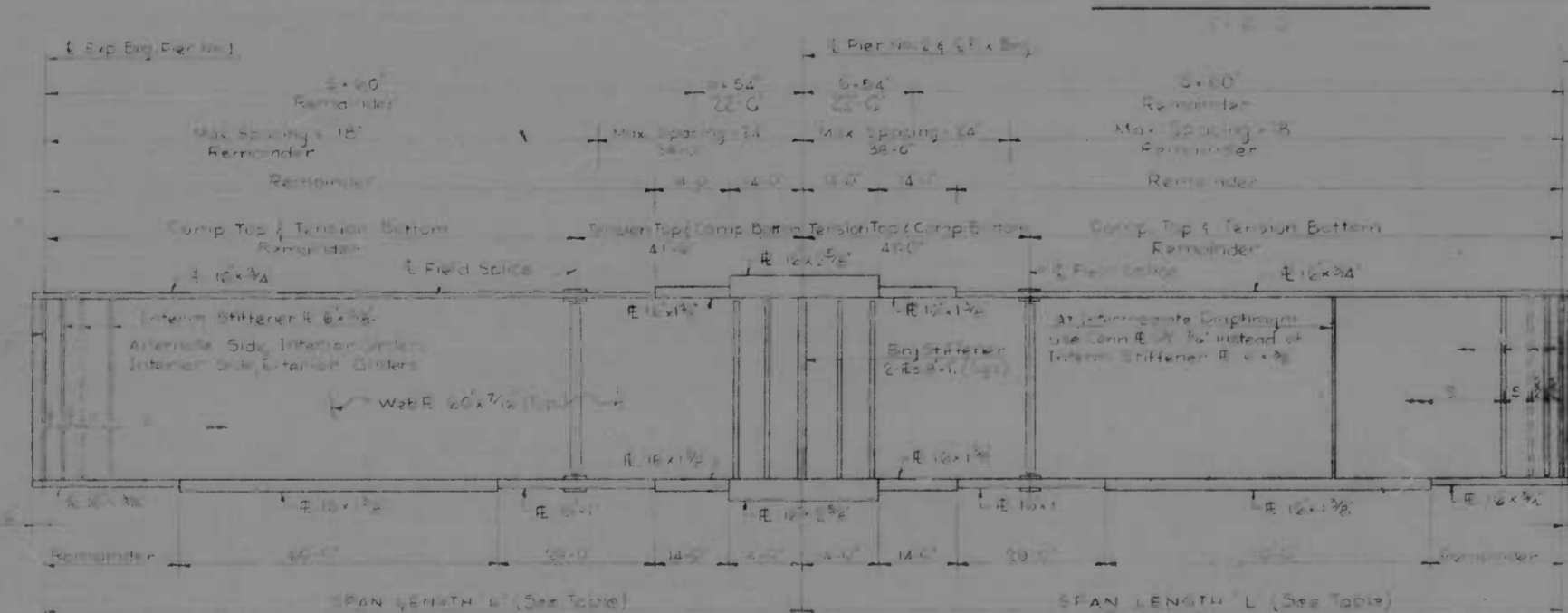


TYPICAL INTERIOR STRINGER ELEVATION-SPANS 1 & 4



TYPICAL EXTERIOR GIRDER ELEVATION-SPANS 1 & 4

G-101, G-116, G-401, G-418



TYPICAL GIRDER ELEVATION-SPANS 2 & 3

SPAN LENGTH "L"		
SPAN No.	GIRDER	L
1	G-101 THRU G-108	56-2 1/2'
	G-201 THRU G-108	141-10'
	G-301 THRU G-308	141-10'
	G-401 THRU G-408	56-2 1/2'
2	G-110 THRU G-116	56-4 1/2'
	G-210	141-10'
	G-310	141-10'
	G-410	56-4 1/2'
3	G-210 THRU G-217	142-1 1/2'
	G-309	141-9 1/2'
	G-310	142-3 1/2'
	G-410	142-9 1/2'
4	G-310 THRU G-317	142-4 1/2'
	G-410	56-19 1/2'
	G-410	56-2 1/2'
	G-411	56-10 1/2'

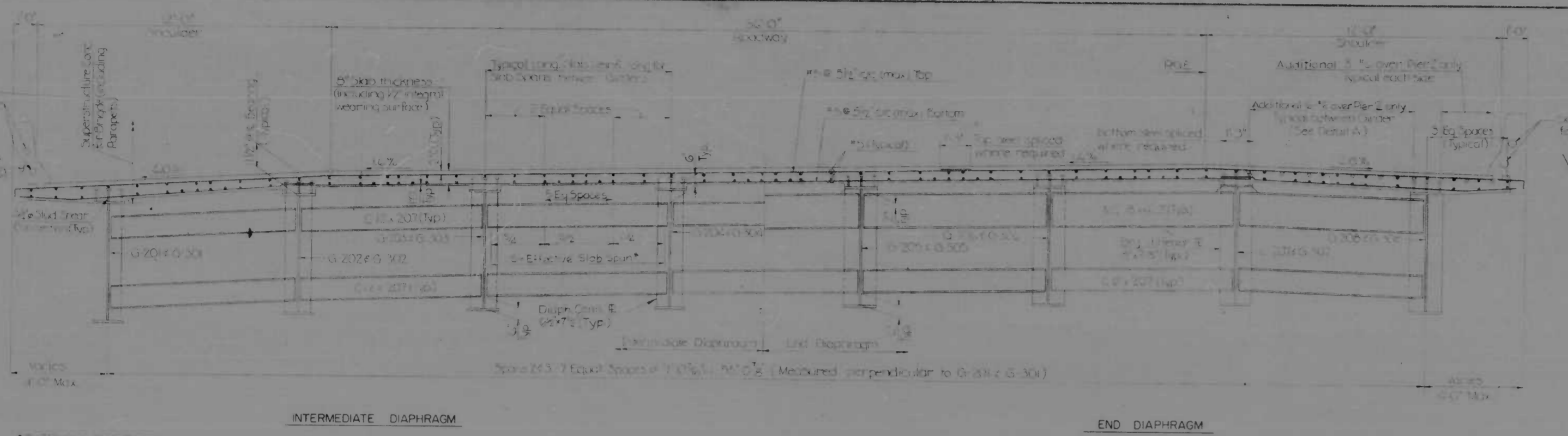
Note: All girders are designed composite and therefore there shall be no temporary intermediate supports while concrete is being placed. All structural steel shall conform to ASTM Specification A-572. All girders to be stiffened by top diaphragm girders. All intermediate stiffeners and compression plates shall be placed rigid against the tension flange and shall extend to the tension flange. All bearing stiffeners shall be rigidly connected against the tension flange. All intermediate stiffeners shall be connected to the tension flange. All stiffeners to be placed along the tension flange shall be connected to the tension flange. All stiffeners shall be connected to the tension flange.

REVISIONS

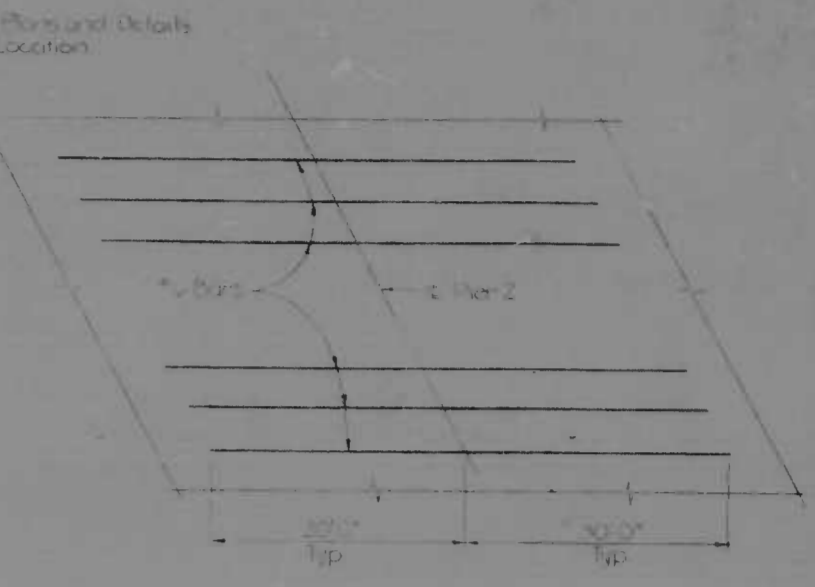
NO.	DATE	DESCRIPTION
1	10/1/88	GENERAL PLAN ELEVATION
2	10/1/88	TYPICAL DIAPHRAGM CONNECTION
3	10/1/88	CRAMER TABLES
4	10/1/88	CRAMER TABLES
5	10/1/88	CRAMER TABLES
6	10/1/88	CRAMER TABLES
7	10/1/88	CRAMER TABLES
8	10/1/88	CRAMER TABLES
9	10/1/88	CRAMER TABLES
10	10/1/88	CRAMER TABLES

REVISIONS	CONSULTANT KINERLE, HENDER, STONE & ASSOC., INC. and MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & 1-95 WINDLASS-MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & B&O RR FRAMING PLANS AND GIRDER ELEVATIONS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
			DRAWN BY: RVP CHECKED BY: RVP	DESIGN BY: M.S.C. CHECKED BY: F.F.M.
SCALE: As shown		DATE: MAY 13, 1991	F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815	SHEET NO. 5-44 OF 5-55

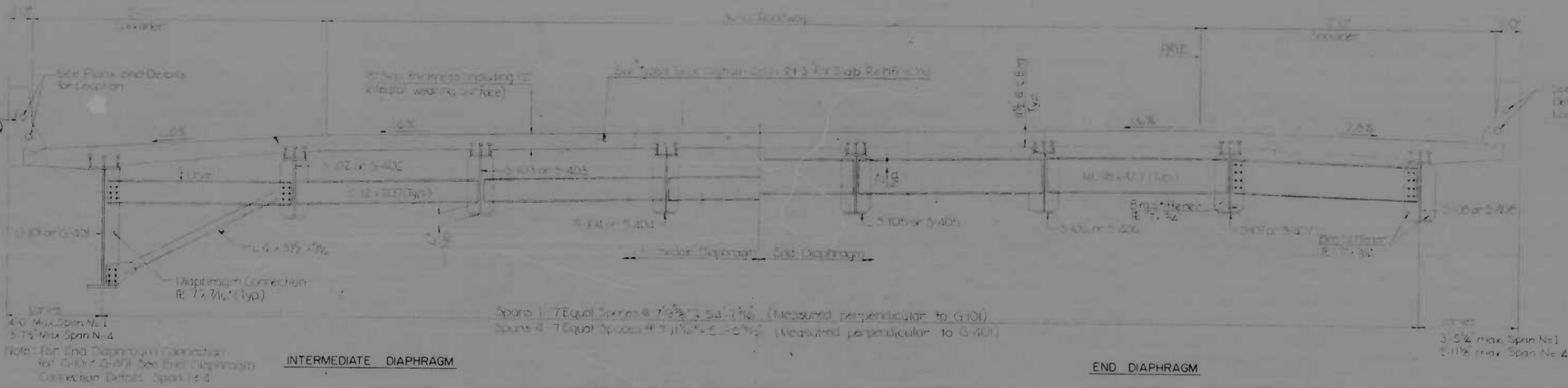
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-45	(92)



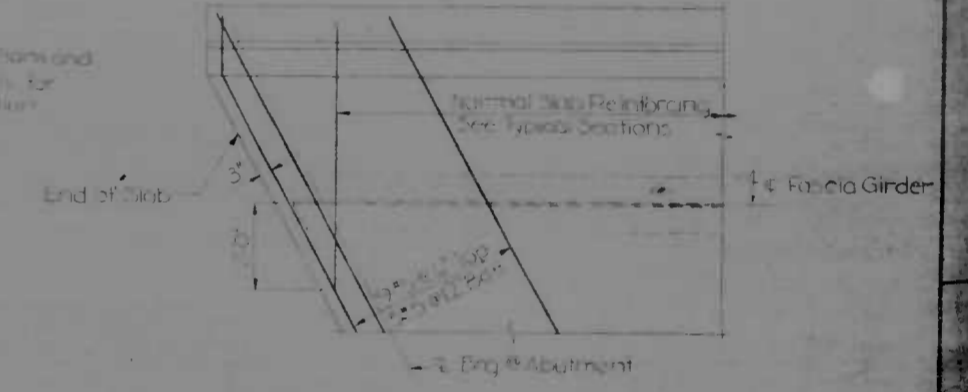
TYPICAL DECK SECTION - SPANS 2 AND 3
Scale: 1/4" = 1'-0"



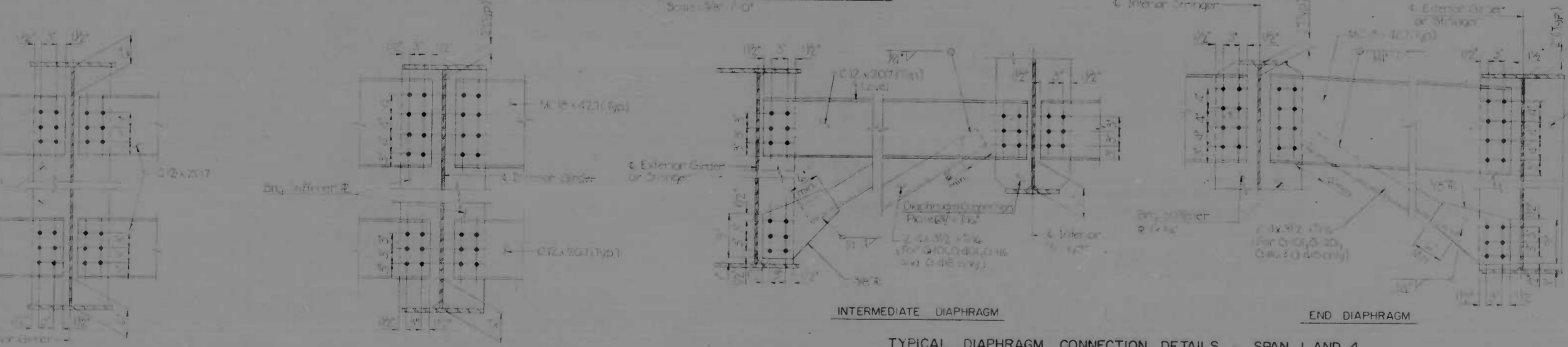
DETAIL "A"
Scale: None



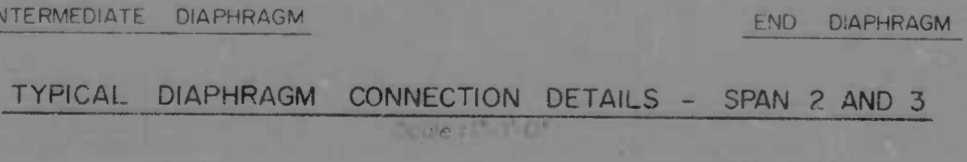
TYPICAL DECK SECTION - SPANS 1 AND 4
Scale: 1/4" = 1'-0"



SLAB REINFORCING AT ACUTE CORNER
Scale: 1/8" = 1'-0"



TYPICAL DIAPHRAGM CONNECTION DETAILS - SPAN 1 AND 4
Scale: 1/4" = 1'-0"

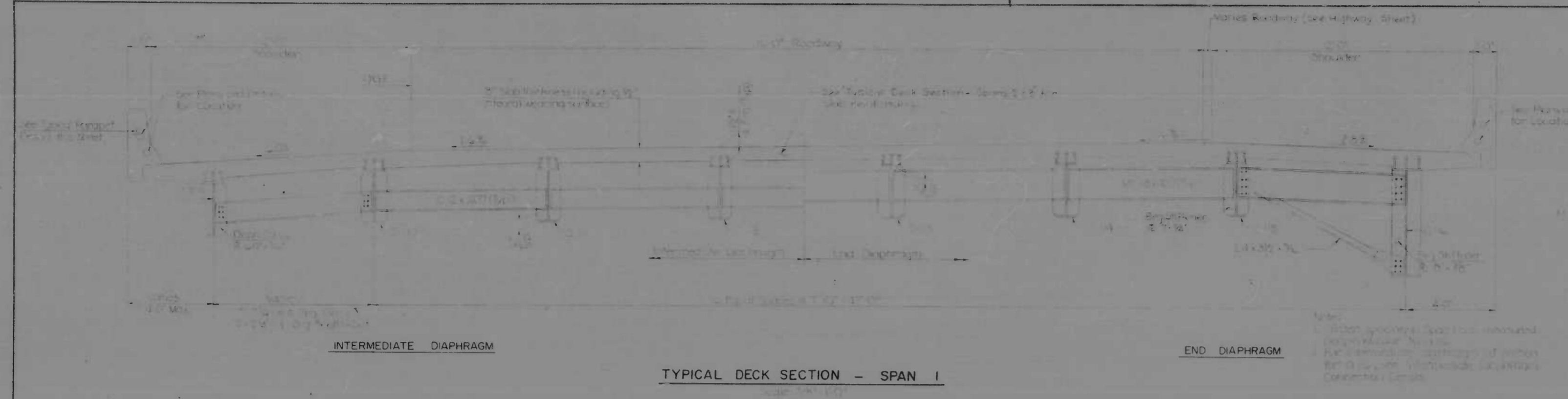


TYPICAL DIAPHRAGM CONNECTION DETAILS - SPAN 2 AND 3
Scale: 1/4" = 1'-0"

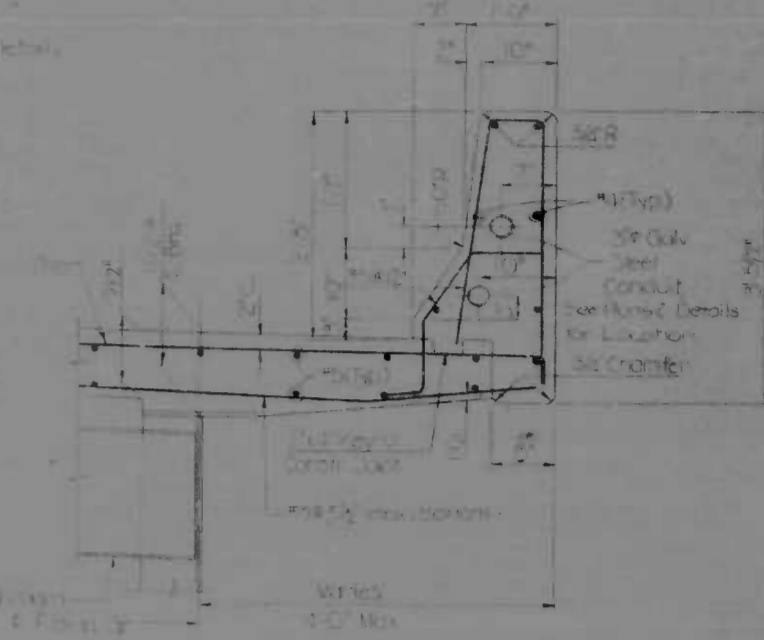
- Notes:
1. All horizontal dimensions in Typical Deck Sections are measured parallel to the centerline except girder spacings.
 2. No #10 bolts shall be used for diaphragm connections.
 3. Transverse reinforcing shall be placed normal to the diaphragm.
- REFERENCES
- | REFERENCE | SHEET No. |
|---------------------------|-----------|
| Plan | S-44 |
| Superstructure Details | S-45 |
| Deck Reinforcing Sequence | S-47 |
| Typical Parapet Detail | S-49 |

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	EMERLE, BENDER, STONE & ASSOC., INC. AND MATY, PHILBO & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	195 WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & 880 RR TYPICAL DECK SECTIONS-SBR	DRAWN BY: J.R.H. TRACED BY: J.R.H. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO. 1995
		SCALE: As Shown	DATE: MAY 13, 1971
			DES. BY: M.S.C. CHK. BY: F.F.M.
			SHEET NO. S-45 OF S-55

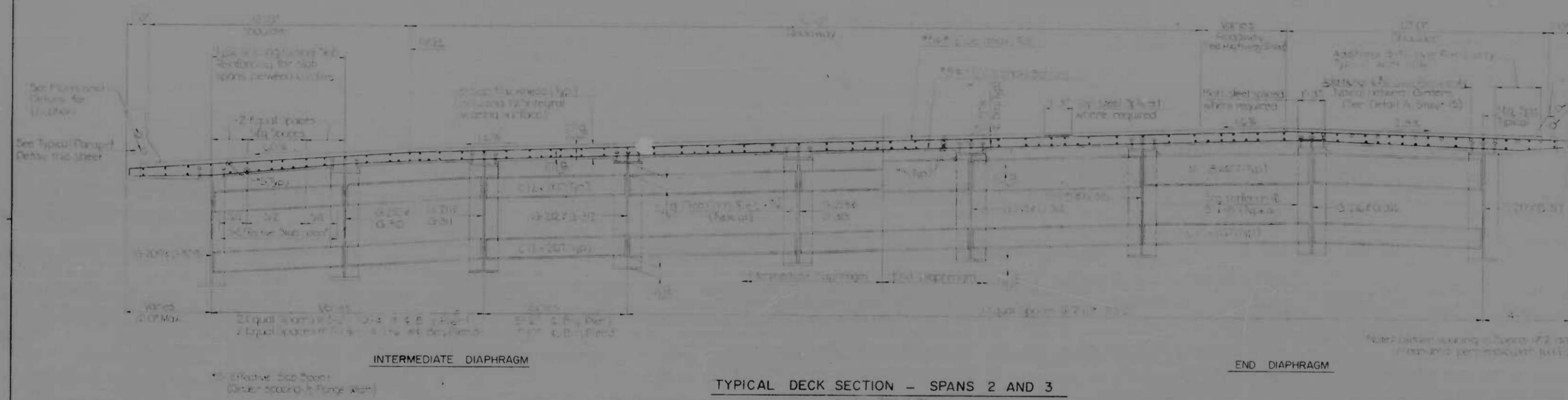
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-46	55



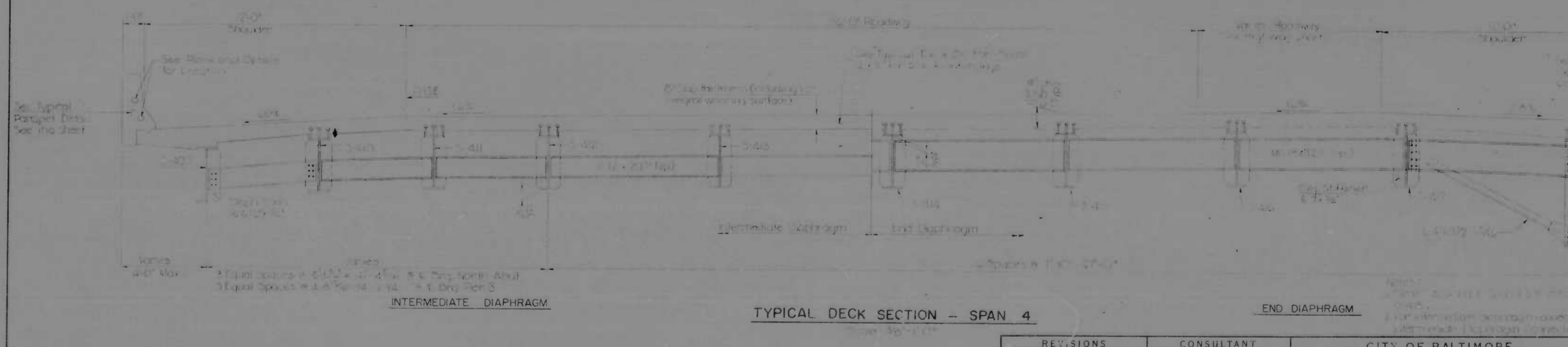
TYPICAL DECK SECTION - SPAN 1



TYPICAL PARAPET DETAIL



TYPICAL DECK SECTION - SPANS 2 AND 3

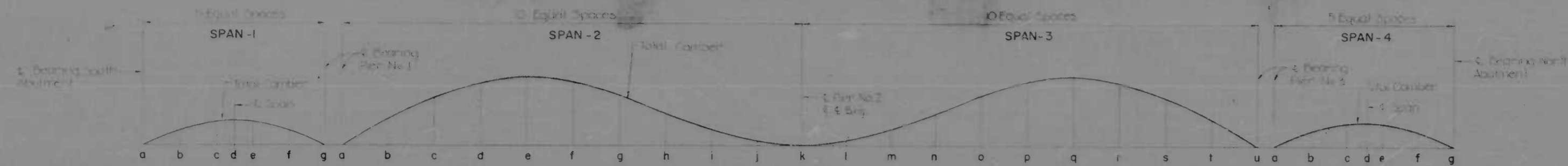


TYPICAL DECK SECTION - SPAN 4

1. All horizontal dimensions shown on Typical Deck Sections are measured parallel to the centerline of the bridge, except as noted.
 2. Reinforcing steel shall be placed in accordance with the details shown on the drawings.

REFERENCES	SHEET No.
Framing Plan	3-44
Detail A	3-45
Superstructure Details	3-46
Deck Reinforcing Schedule	3-47
Diaphragm Construction Details	3-48

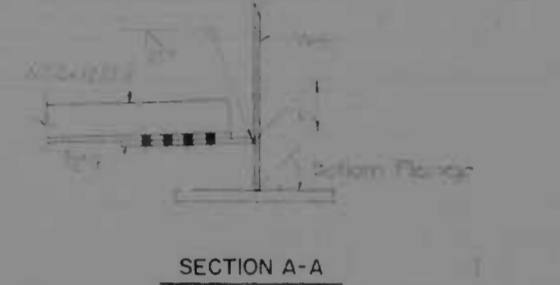
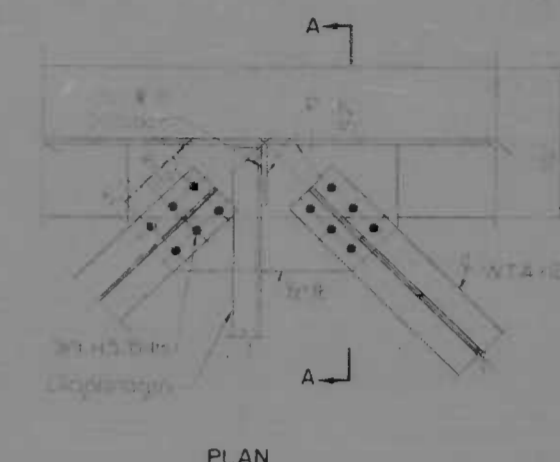
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	XNDERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHLOS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95-WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP 'B' & B&O RR TYPICAL DECK SECTIONS-N B R	DRAWN BY: J.R.H. TRACED BY: J.F.H. F.A.P. NO.: I-95-4(36)36 P.R.C. NO.: BC 246 33-815 BALTO. CITY NO. 1595
		SCALE: As Shown	DATE: June 22, 1995
			DES. BY: M.S.C. CHK. BY: F.F.M. SHEET NO.: S-46 of 55



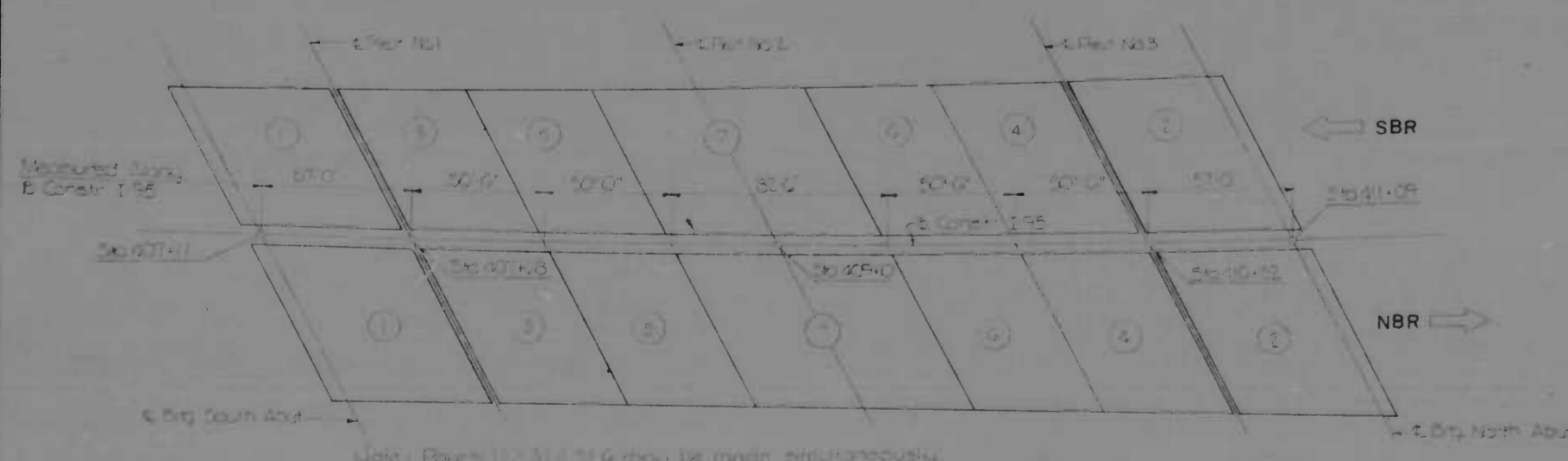
CAMBER DIAGRAM

CAMBER TABLE - S.B.R.

DESCRIPTION	SPAN - 1							SPAN - 2											SPAN - 3											SPAN - 4						
	a	b	c	d	e	f	g	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	a	b	c	d	e	f	g	
STRINGER NO.	G-101							G-201											G-301											G-401						
Δ STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ CONCRETE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ S.D.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ VERT CURVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL CAMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
STRINGER NO.	S-102							G-202											G-302											S-402						
Δ STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ CONCRETE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ S.D.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ VERT CURVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL CAMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
STRINGER NO.	S-103 THRU S-106							G-203 THRU G-206											G-303 THRU G-306											S-403 THRU S-406						
Δ STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ CONCRETE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ S.D.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ VERT CURVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL CAMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
STRINGER NO.	S-107							G-207											G-307											S-407						
Δ STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ CONCRETE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ S.D.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ VERT CURVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL CAMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
STRINGER NO.	G-108							G-208											G-308											G-408						
Δ STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ CONCRETE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ S.D.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Δ VERT CURVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL CAMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

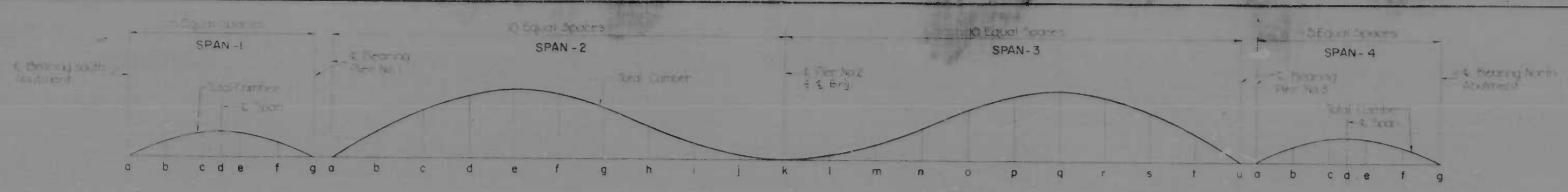


LATERAL BRACING DETAILS



DECK POURING SEQUENCES

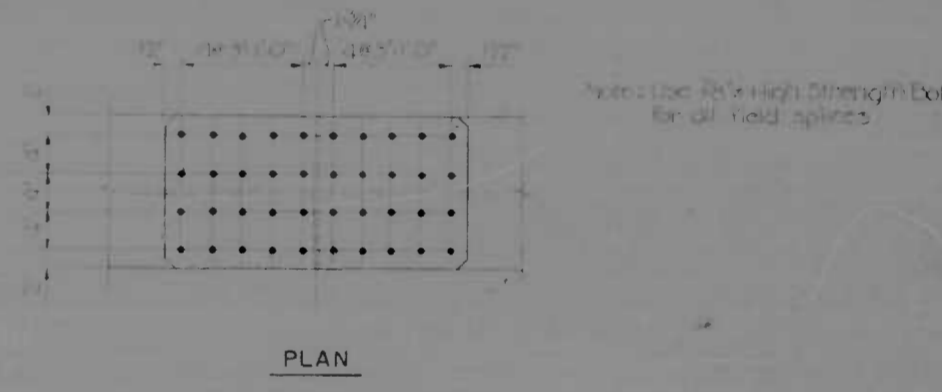
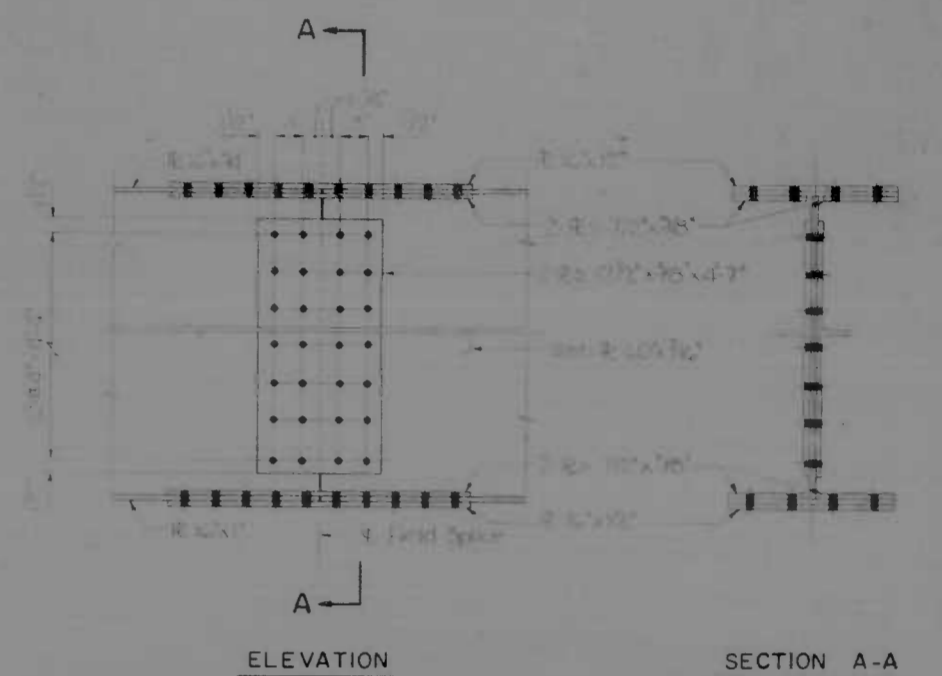
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNORRE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	I-95-WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O R.R. CAMBER DIAGRAMS AND TABLES - S.B.R.	DRAWN BY: J.R.H. TRACED BY: J.R.H. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33 815 BALTO. CITY NO. 1995
		SCALE: As Shown	DATE: 12/23/84
			DES. BY: MSC CHK. BY: FFM SHEET NO. (92) S-47 of S-55



CAMBER DIAGRAM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	S-48	55

DESCRIPTION	SPAN - 1							SPAN - 2											SPAN - 3							SPAN - 4								
	a	b	c	d	e	f	g	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	a	b	c	d	e	f
STRINGER NO	G-109							G-209											G-309							G-409								
Δ STEEL																																		
Δ CONCRETE																																		
Δ SDL																																		
Δ VERT CURVE																																		
TOTAL CAMBER																																		
STRINGER NO	S-110							G-210											G-310							S-410								
Δ STEEL																																		
Δ CONCRETE																																		
Δ SDL																																		
Δ VERT CURVE																																		
TOTAL CAMBER																																		
STRINGER NO	S-111							G-211											G-311							S-411								
Δ STEEL																																		
Δ CONCRETE																																		
Δ SDL																																		
Δ VERT CURVE																																		
TOTAL CAMBER																																		
STRINGER NO	S-112							G-212											G-312							S-412								
Δ STEEL																																		
Δ CONCRETE																																		
Δ SDL																																		
Δ VERT CURVE																																		
TOTAL CAMBER																																		
STRINGER NO	S-113 THRU S-114							G-213 THRU G-215											G-313 THRU G-315							S-413 THRU S-416								
Δ STEEL																																		
Δ CONCRETE																																		
Δ SDL																																		
Δ VERT CURVE																																		
TOTAL CAMBER																																		
STRINGER NO	S-115							G-216											G-316							S-417								
Δ STEEL																																		
Δ CONCRETE																																		
Δ SDL																																		
Δ VERT CURVE																																		
TOTAL CAMBER																																		
STRINGER NO	G-116							G-217											G-317							G-418								
Δ STEEL																																		
Δ CONCRETE																																		
Δ SDL																																		
Δ VERT CURVE																																		
TOTAL CAMBER																																		

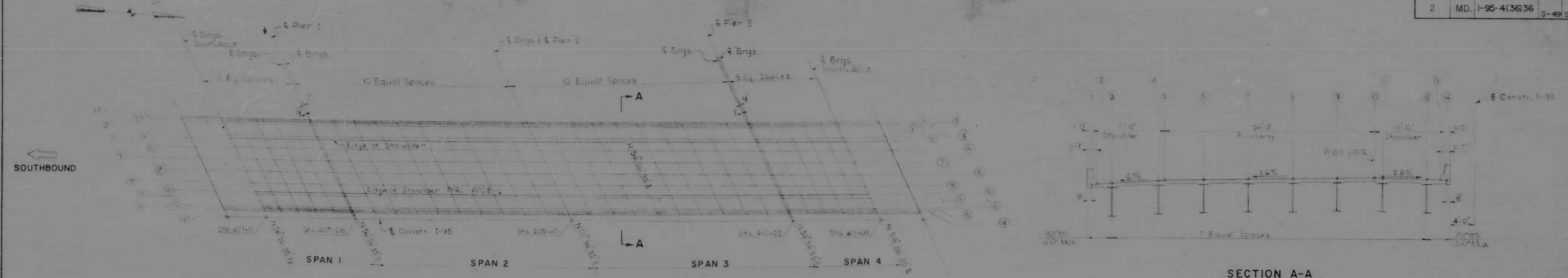


TYPICAL FIELD SPLICE DETAILS

REFERENCE SHEET NO. 5-48

REVISIONS	CONSULTANT KNOERLE, 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 DIVISION FOR BALTIMORE CITY 95-WINDLASS MORAVIA INTERCHANGE I-95 OVER RAMP 'B' & B&O RR CAMBER DIAGRAMS AND TABLES - N.B.R.	DRAWN BY JRM TRACED BY JRM DES. BY MSC CHK. BY F.F.M. F.A.P. NO. 1-95-4(36)36 S.R.C. NO. PC 246-33-815 BALTO. CITY NO. 1995	SHEET NO. (92) S-48 OF 55
-----------	---	--	---	------------------------------

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-49	S-55



S.B.R. SUPERSTRUCTURE ELEVATIONS-KEY PLAN
Scale 1"=30'-0"

SECTION A-A
TYP. THRU S.B.R.
Scale 1/2"=1'-0"

REFERENCES	SHEET NO.
Schema Plan	S-51
Typical Deck Section S.B.R.	S-44
Typical Deck Section N.B.R.	S-45
Typical Deck Section N.B.R.	S-46

DESCRIPTION	STATION *	SPAN 1					
		407+01.74	407+07.99	407+24.25	407+35.50	407+46.75	407+58.00
1 WEST KEY LINE		53.25	53.39	53.54	53.68	53.82	53.95
2 WEST CURB LINE		53.21	53.45	53.60	53.74	53.88	54.02
3 GIRDER G-101		53.47	53.61	53.76	53.90	54.04	54.18
4 STRINGER S-102		53.99	54.14	54.28	54.42	54.56	54.70
5 EDGE OF SHOULDER		54.06	54.22	54.36	54.50	54.64	54.77
6 STRINGER S-103		54.23	54.37	54.51	54.65	54.79	54.92
7 STRINGER S-104		54.41	54.55	54.69	54.83	54.97	55.09
8 STRINGER S-105		54.58	54.70	54.87	55.00	55.14	55.27
9 STRINGER S-106		54.76	54.91	55.04	55.18	55.31	55.44
10 P/GE B P/R		54.90	55.04	55.18	55.31	55.44	55.57
11 STRINGER S-107		54.86	55.01	55.14	55.27	55.40	55.53
12 GIRDER G-108		54.70	54.84	54.97	55.11	55.23	55.36
13 EAST CURB LINE		54.66	54.80	54.93	55.07	55.19	55.31
14 EAST KEY LINE		54.64	54.78	54.91	55.05	55.17	55.30

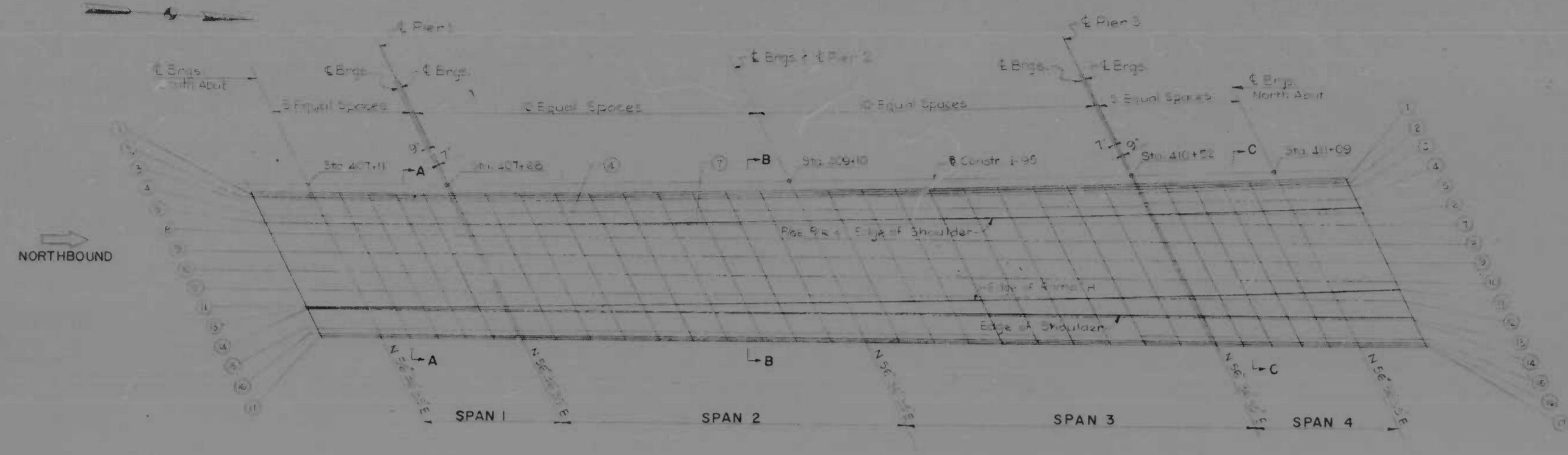
DESCRIPTION	STATION *	SPAN 2													
		407+59.52	407+73.68	407+87.84	408+02.00	408+16.16	408+30.32	408+44.48	408+58.64	409+12.80	409+26.96	409+41.12	409+55.28	409+69.44	409+83.60
1 WEST KEY LINE		53.97	54.14	54.30	54.45	54.60	54.74	54.87	55.00	55.13	55.24	55.34	55.44	55.54	55.64
2 WEST CURB LINE		54.13	54.20	54.36	54.51	54.66	54.80	54.93	55.06	55.19	55.30	55.41	55.51	55.62	55.72
3 GIRDERS G-201/G-301		54.19	54.35	54.49	54.64	54.77	54.91	55.03	55.16	55.28	55.39	55.50	55.61	55.71	55.80
4 GIRDERS G-202/G-302		54.71	54.88	55.01	55.15	55.29	55.42	55.54	55.67	55.78	55.90	56.00	56.11	56.21	56.30
5 EDGE OF SHOULDER		54.79	54.95	55.11	55.26	55.40	55.54	55.67	55.80	55.92	56.04	56.15	56.25	56.35	56.44
6 GIRDERS G-203/G-303		54.94	55.09	55.23	55.39	55.52	55.67	55.80	55.92	56.04	56.15	56.26	56.36	56.46	56.55
7 GIRDERS G-204/G-304		55.11	55.27	55.42	55.56	55.70	55.83	55.96	56.08	56.20	56.31	56.41	56.52	56.61	56.70
8 GIRDERS G-205/G-305		55.28	55.44	55.58	55.75	55.88	56.00	56.12	56.24	56.36	56.47	56.57	56.67	56.76	56.85
9 GIRDERS G-206/G-306		55.45	55.61	55.75	55.90	56.03	56.16	56.28	56.40	56.52	56.63	56.73	56.83	56.92	57.00
10 P/GE B P/R		55.59	55.74	55.89	56.03	56.16	56.29	56.42	56.54	56.65	56.76	56.86	56.95	57.04	57.13
11 STRINGER S-307		55.54	55.70	55.85	56.00	56.13	56.27	56.39	56.51	56.62	56.73	56.83	56.92	57.01	57.10
12 GIRDERS G-208/G-308		55.67	55.83	55.97	56.12	56.25	56.38	56.51	56.63	56.74	56.84	56.94	57.03	57.12	57.20
13 EAST CURB LINE		55.33	55.48	55.63	55.77	55.90	56.03	56.15	56.27	56.38	56.48	56.58	56.67	56.76	56.84
14 EAST KEY LINE		55.31	55.46	55.61	55.75	55.88	56.01	56.13	56.24	56.35	56.45	56.55	56.64	56.73	56.81

DESCRIPTION	STATION *	SPAN 4					
		410+44.23	410+55.48	410+66.74	410+77.99	410+89.24	411+00.50
1 WEST KEY LINE		56.16	56.20	56.23	56.27	56.29	56.32
2 WEST CURB LINE		56.27	56.28	56.29	56.32	56.33	56.37
3 GIRDER G-401		56.35	56.36	56.42	56.45	56.47	56.50
4 STRINGER S-402		56.83	56.87	56.90	56.93	56.96	56.98
5 EDGE OF SHOULDER		56.92	56.96	56.99	57.02	57.05	57.07
6 STRINGER S-403		57.04	57.07	57.10	57.13	57.16	57.18
7 STRINGER S-404		57.18	57.21	57.24	57.27	57.29	57.31
8 STRINGER S-405		57.32	57.35	57.38	57.40	57.42	57.44
9 STRINGER S-406		57.46	57.49	57.51	57.54	57.56	57.58
10 P/GE B P/R		57.56	57.59	57.61	57.63	57.65	57.67
11 STRINGER S-407		57.50	57.53	57.55	57.58	57.59	57.61
12 GIRDER G-408		57.29	57.32	57.34	57.36	57.38	57.39
13 EAST CURB LINE		57.35	57.38	57.40	57.43	57.44	57.46
14 EAST KEY LINE		57.33	57.36	57.38	57.40	57.42	57.43

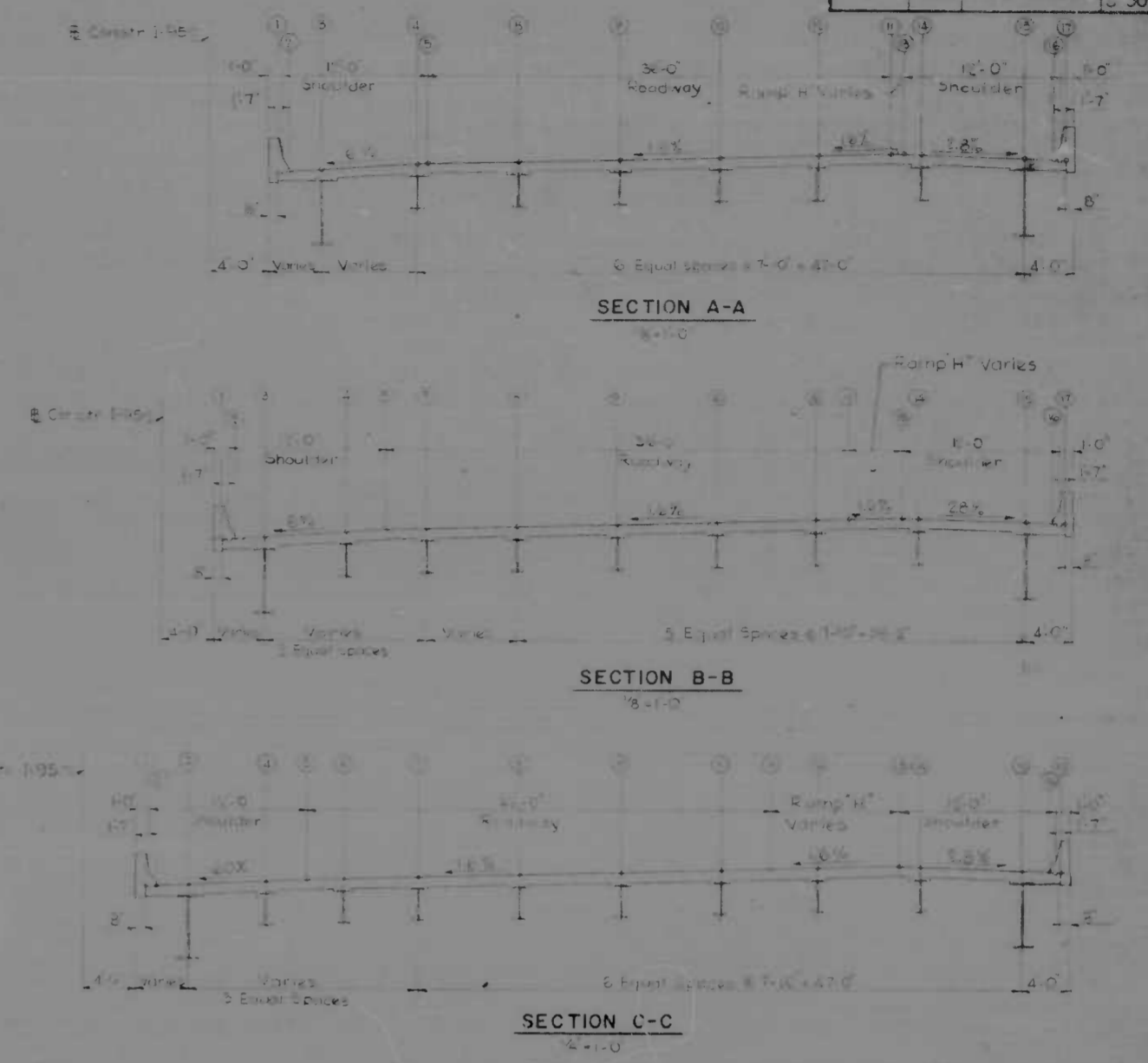
* Stations are given for Line 101 P/GE & P/R

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KNOERLE, BENDER, STONH & ASSOC., INC. AND HATZ CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	I-95 WINDLASS MORAVIA INTERCHANGE I-95 OVER RAMP 'B' & 'B80' P/R S B R SUPERSTRUCTURE ELEVATIONS		DRAWN BY RVP TRACED BY RVP	DES. BY MSC CHK. BY F.F.M.
SCALE: As Shown	DATE: 1/16/81	F.A.P. NO. I-95-4(36)36	S.R.C. NO. RC 245 33- 2/5	SHEET NO. 192 S-49 or S-55	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	30	55



NBR SUPERSTRUCTURE ELEVATIONS - KEY PLAN
Scale: 1" = 30'-0"

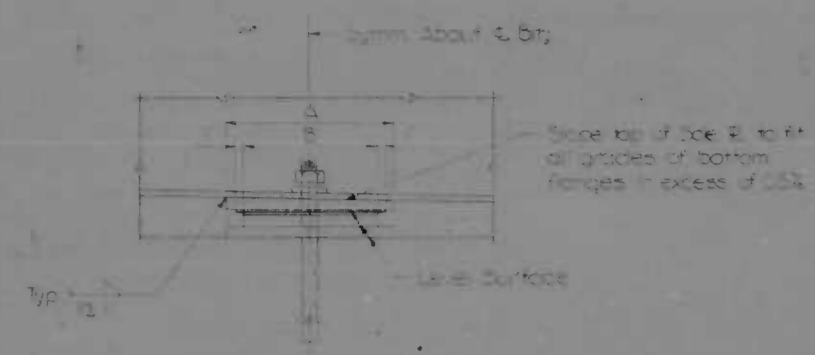


DESCRIPTION	± BRG ABUT	SPAN 1					± BRG PIER 1
STATION*	407+20.25	407+31.45	407+42.64	407+53.85	407+65.04	407+76.27	
1 WEST KEY LINE	54.31	54.45	54.58	54.71	54.83	54.94	
2 WEST CURB LINE	54.37	54.51	54.64	54.77	54.89	55.01	
3 GIRDER G-109	54.55	54.67	54.80	54.93	55.05	55.18	
4 STRINGER S-110	55.01	55.15	55.29	55.42	55.55	55.68	
5 EDGE OF SHOULDER P/GE & P/R	55.18	55.27	55.40	55.49	55.66	55.77	
8 STRINGER S-111	55.27	55.40	55.53	55.66	55.79	55.91	
9 STRINGER S-112	55.44	55.58	55.71	55.83	55.96	56.08	
10 STRINGER S-113	55.62	55.75	55.88	56.01	56.13	56.25	
12 STRINGER S-114	55.79	55.93	56.05	56.18	56.30	56.42	
11 EDGE OF RAMP "H"	55.94	56.07	56.19	56.31	56.43	56.54	
13 EDGE OF SHOULDER	55.95	56.08	56.20	56.32	56.44	56.56	
14 STRINGER S-115	55.92	56.05	56.18	56.30	56.42	56.54	
15 GIRDER G-116	56.75	56.86	56.99	57.11	57.24	57.36	
16 EAST CURB LINE	56.70	56.83	56.95	57.07	57.19	57.30	
17 EAST KEY LINE	56.88	56.99	57.11	57.23	57.35	57.47	

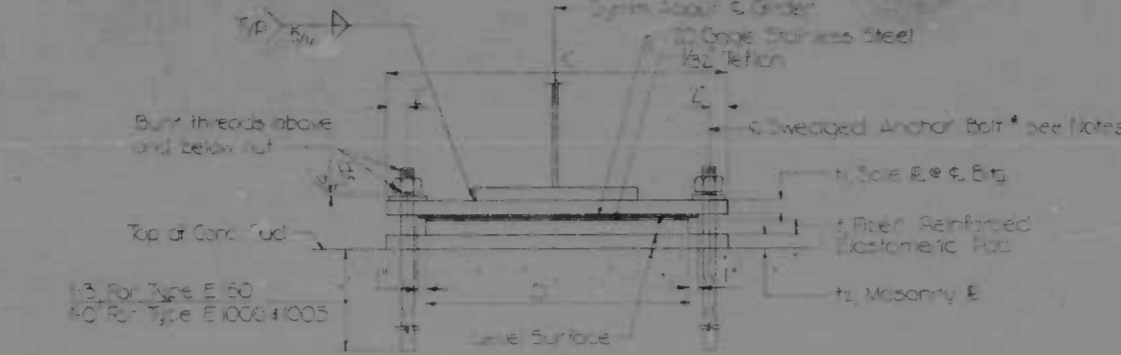
DESCRIPTION	± BRG PIER 1	SPAN 2										± BRG PIER 2	SPAN 3										± BRG PIER 3			
STATION*	407+77.75	407+91.58	408+05.39	408+19.19	408+33.01	408+46.81	408+60.62	408+74.43	408+88.23	408+102.05	408+115.85	408+129.65	409+16.85	409+30.65	409+44.45	409+58.25	409+72.05	409+85.85	409+99.65	410+13.45	410+27.25	410+41.05	410+54.85	410+68.65	410+82.45	410+96.25
1 WEST KEY LINE	54.97	55.11	55.24	55.37	55.50	55.63	55.76	55.89	56.02	56.15	56.28	56.41	56.54	56.67	56.80	56.93	57.06	57.19	57.32	57.45	57.58	57.71	57.84	57.97	58.10	58.23
2 WEST CURB LINE	55.03	55.18	55.32	55.46	55.59	55.73	55.87	56.00	56.14	56.28	56.41	56.55	56.68	56.82	56.95	57.09	57.22	57.35	57.49	57.62	57.75	57.89	58.02	58.15	58.29	58.42
3 GIRDER G-209/G-309	55.19	55.33	55.47	55.60	55.74	55.88	56.01	56.15	56.29	56.42	56.56	56.69	56.83	56.96	57.10	57.23	57.37	57.50	57.64	57.77	57.90	58.04	58.17	58.31	58.44	58.58
4 GIRDER G-210/G-310	55.53	55.67	55.81	55.95	56.09	56.23	56.36	56.50	56.64	56.78	56.91	57.05	57.18	57.32	57.45	57.59	57.72	57.86	58.00	58.13	58.27	58.40	58.54	58.67	58.81	58.94
5 EDGE OF SHOULDER P/GE & P/R	55.78	55.93	56.07	56.20	56.34	56.48	56.61	56.75	56.88	57.02	57.15	57.29	57.42	57.56	57.69	57.83	57.96	58.10	58.23	58.37	58.50	58.64	58.77	58.91	59.04	59.18
7 GIRDER G-211/G-311	55.81	55.96	56.10	56.23	56.37	56.50	56.64	56.77	56.91	57.04	57.18	57.31	57.45	57.58	57.72	57.85	57.99	58.12	58.26	58.39	58.53	58.66	58.80	58.93	59.07	59.20
8 GIRDER G-212/G-312	55.92	56.07	56.21	56.35	56.48	56.62	56.75	56.89	57.02	57.16	57.29	57.43	57.56	57.70	57.83	57.97	58.10	58.24	58.37	58.51	58.64	58.78	58.91	59.05	59.18	59.32
9 GIRDER G-213/G-313	56.00	56.14	56.28	56.42	56.55	56.69	56.82	56.96	57.09	57.23	57.36	57.50	57.63	57.77	57.90	58.04	58.17	58.31	58.44	58.58	58.71	58.85	58.98	59.12	59.25	59.39
10 GIRDER G-214/G-314	56.26	56.41	56.55	56.68	56.81	56.95	57.08	57.22	57.35	57.49	57.62	57.76	57.89	58.03	58.16	58.30	58.43	58.57	58.70	58.84	58.97	59.11	59.24	59.38	59.51	59.65
12 GIRDER G-215/G-315	56.45	56.57	56.71	56.84	56.97	57.09	57.23	57.36	57.50	57.63	57.76	57.90	58.03	58.17	58.30	58.44	58.57	58.71	58.84	58.98	59.11	59.25	59.38	59.52	59.65	59.79
11 EDGE OF RAMP "H"	56.50	56.63	56.76	56.89	57.02	57.15	57.28	57.41	57.54	57.67	57.80	57.93	58.06	58.19	58.32	58.45	58.58	58.71	58.84	58.97	59.10	59.23	59.36	59.49	59.62	59.75
13 EDGE OF SHOULDER	56.52	56.65	56.78	56.91	57.04	57.17	57.30	57.43	57.56	57.69	57.82	57.95	58.08	58.21	58.34	58.47	58.60	58.73	58.86	58.99	59.12	59.25	59.38	59.51	59.64	59.77
14 GIRDER G-216/G-316	56.55	56.69	56.83	56.96	57.10	57.23	57.36	57.50	57.63	57.76	57.90	58.03	58.16	58.30	58.43	58.56	58.69	58.83	58.96	59.09	59.22	59.35	59.48	59.61	59.74	59.87
15 GIRDER G-217/G-317	56.37	56.51	56.64	56.77	56.90	57.03	57.16	57.29	57.42	57.55	57.68	57.81	57.94	58.07	58.20	58.33	58.46	58.59	58.72	58.85	58.98	59.11	59.24	59.37	59.50	59.63
16 EAST CURB LINE	56.32	56.46	56.59	56.72	56.84	56.96	57.09	57.21	57.34	57.47	57.60	57.72	57.85	57.97	58.10	58.23	58.36	58.49	58.61	58.74	58.87	59.00	59.13	59.26	59.39	59.52
17 EAST KEY LINE	56.30	56.43	56.57	56.69	56.82	56.94	57.07	57.19	57.32	57.44	57.57	57.69	57.82	57.94	58.07	58.20	58.33	58.45	58.58	58.71	58.84	58.97	59.10	59.23	59.36	59.49

Notes:
* Stations are given for Line 5 - Edge of Shoulder, P/GE & P/R

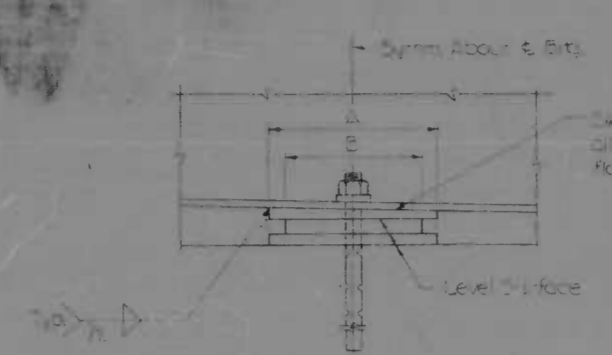
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS &		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KNOERL, BENDER, STONE & ASSOC., INC. AND MATZ, CHURS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	I-95-WINDLASS-MORAVIA INTERCHANGE I-95 OVER RAMP "B" & B&O RR N.B.R. SUPERSTRUCTURE ELEVATIONS		DRAWN BY: R.V.P. TRACED BY: R.V.P. DES. BY: M.S.C. CHK BY: F.F.M.	
		SCALE: As Shown		DATE: June 10, 1995	
		F.A.P. NO. I-95-4(36)36		SHEET NO. (30)	
		S.R.C. NO. BC 246-23-815		S-50 of S-55	
		BALTO. CITY NO. 1995			



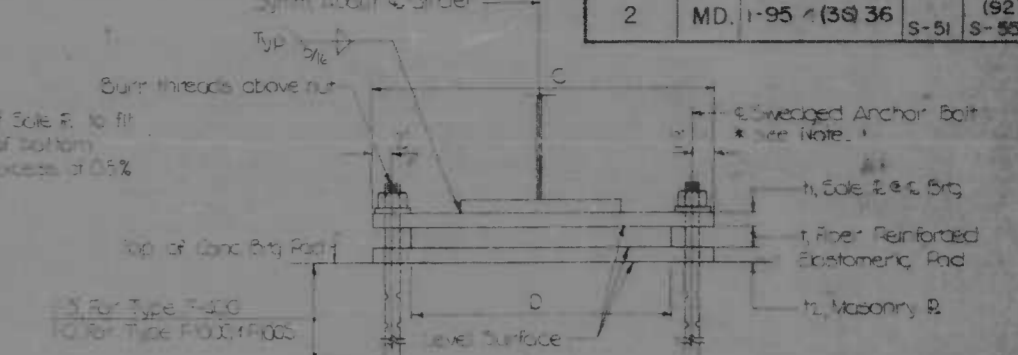
ELEVATION



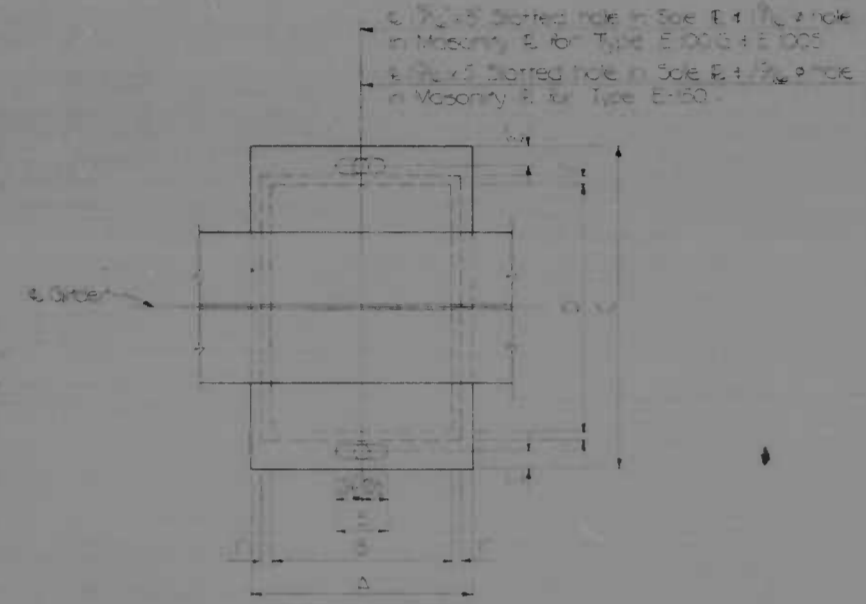
FRONT VIEW



ELEVATION



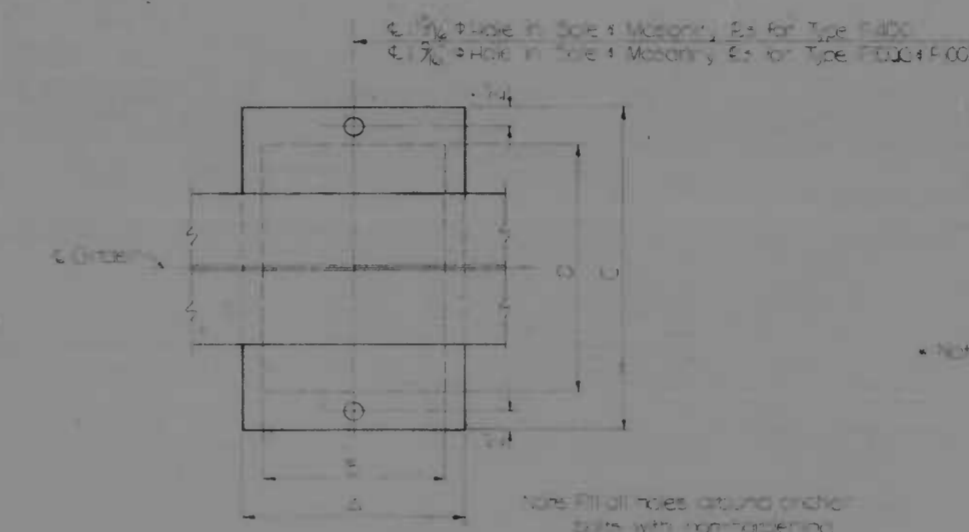
FRONT VIEW



PLAN

TYPE	DIMENSION						
	A	B	C	D	F	F ₁	F ₂
E-150	14	10	34	14	1 1/2"	1 1/4"	1 1/4"
E-100G	12	8	24	12	1 1/2"	1 1/4"	1 1/4"
E-100S	12	8	24	12	1 1/2"	1 1/4"	1 1/4"

- Notes:
- For bearing Type E-150 use 1/2" Swaged Anchor Bolt with 2x3/8" washer & hex nut. Set the bolt 1/2" in 1 1/2" drilled hole in Masonry.
 - For bearing Type E-100G & E-100S use 1 1/2" Swaged Anchor Bolt with 2x3/8" washer & hex nut. Set the bolt 1/2" in 1 1/2" drilled hole in Masonry.



PLAN

TYPE	DIMENSION						
	A	B	C	D	F	F ₁	F ₂
F-400	24	18	34	14	2 1/2"	1 1/4"	1 1/4"
F-100G	12	8	24	12	1 1/2"	1 1/4"	1 1/4"
F-100S	12	8	24	12	1 1/2"	1 1/4"	1 1/4"

- Notes:
- For bearing Type F-400 use 1 1/2" Swaged Anchor Bolt with 2x3/8" washer & hex nut. Set the bolt 1/2" in 1 1/2" drilled hole in Masonry.
 - For bearing Type F-100G & F-100S use 1 1/2" Swaged Anchor Bolt with 2x3/8" washer & hex nut. Set the bolt 1/2" in 1 1/2" drilled hole in Masonry.

Note: Fill all holes around anchor bolts with nonshrink grouting compound or elastic joint filler.

EXPANSION BEARING-TYPE E-150, E-100G & E-100S

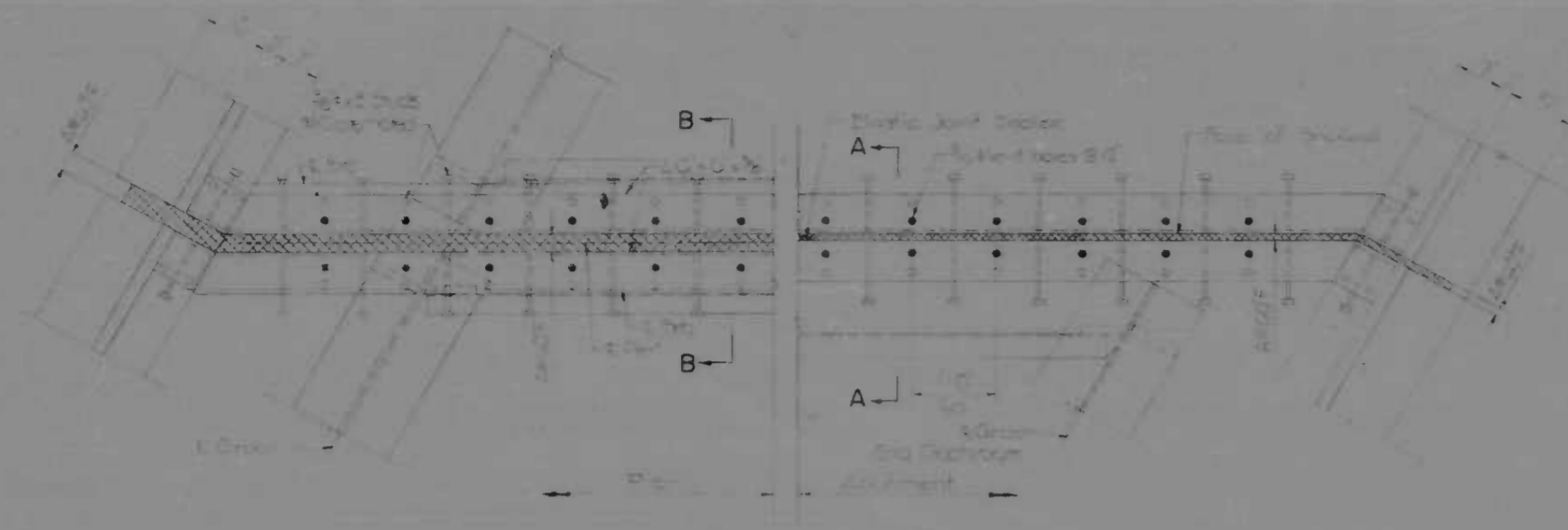
FIX BEARING-TYPE F-400, F-100G & F-100S

- NOTES:
- All steel used in bearings shall conform to ASTM Designation A-588.
 - All Anchor Bolts, Hex nuts & washers shall be hot dipped galvanized.
 - Elastic Resin shall be applied on full contact area between the following: Reinforced elastomeric pad and Masonry Plate; Reinforced elastomeric pad and Refill Plate; Sole Plate and Stainless Steel Plate; Masonry B and Concrete Pad.
 - Elastic Resin Filling Compound shall be used if air temperature is between 32°F and 100°F.

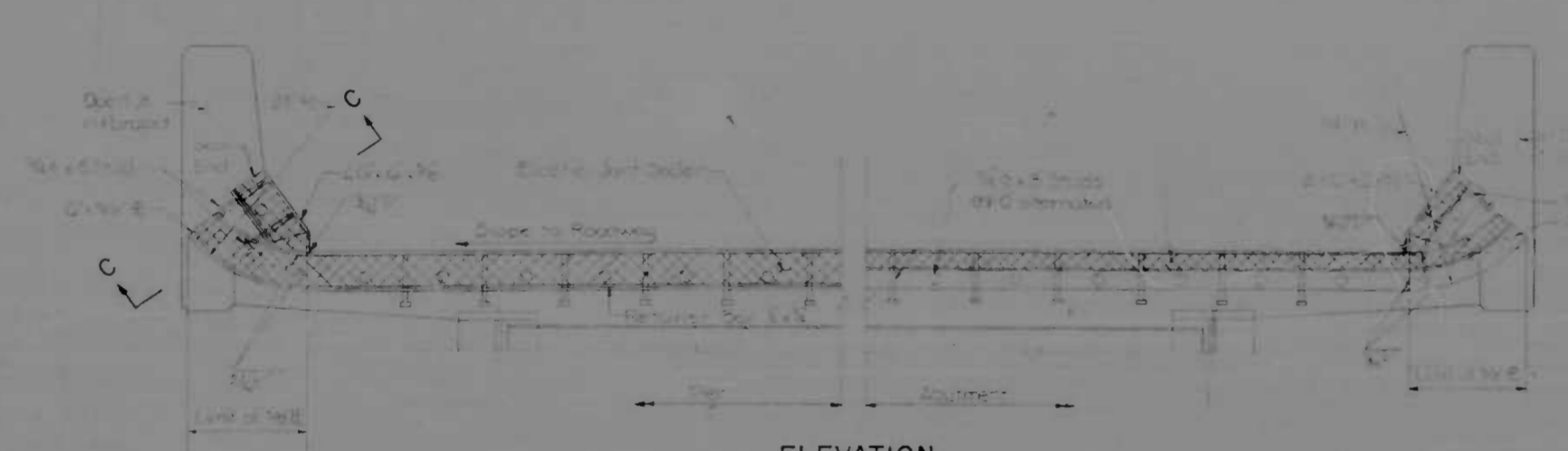
REFERENCE: Framing Plan
SHEET NO.: S-42

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KNOEHL, BENDER, STONE & ASSOC., INC. AND WATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 141 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95-WINDLASS MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & 880 RR BEARING DETAILS	
		DRAWN BY: M.S.F. TRACED BY: M.S.F.	DES. BY: M.S.C. CHK. BY: F.F.M.
		F.A.P. NO.: 1-95-4(39)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO. 1991	SHEET NO.: (92) S-51 of S-55
SCALE: No Scale	DATE: June 10, 1977		

FED. ROAD DIST. NO.	STATE	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	1-95-4(36)36	S-52	S-55



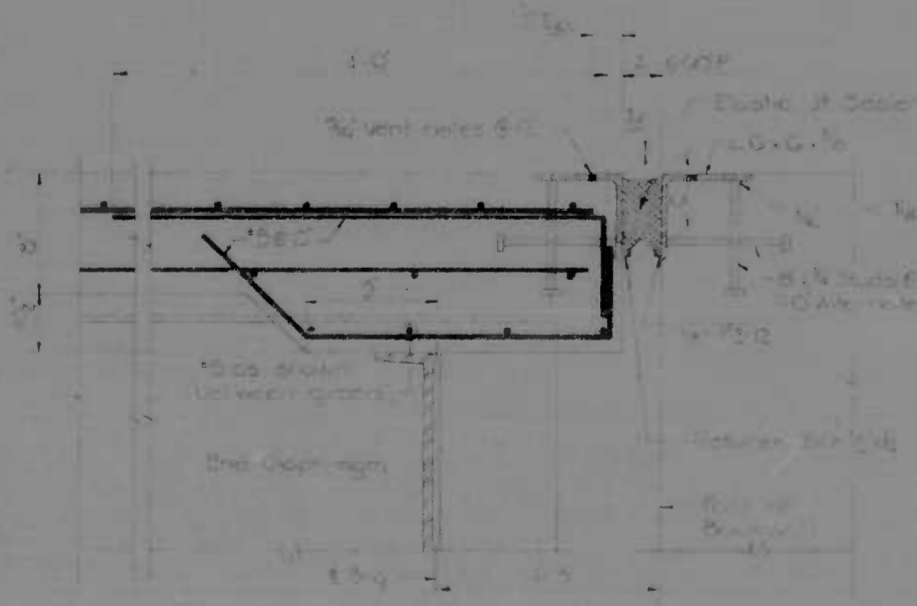
PLAN



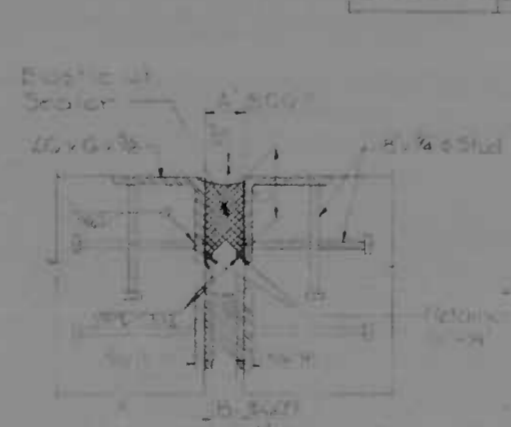
ELEVATION

EXPANSION JOINT DETAILS

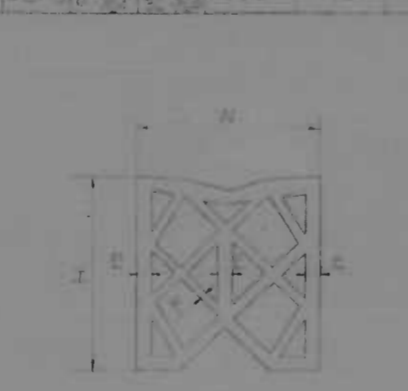
LOCATION	SEALER SIZE			DIMENSION		
	A	E	F	A	B	C
Rein.	1/2"	1/2"	1/2"	12"	12"	12"
Substrate	1/2"	1/2"	1/2"	12"	12"	12"



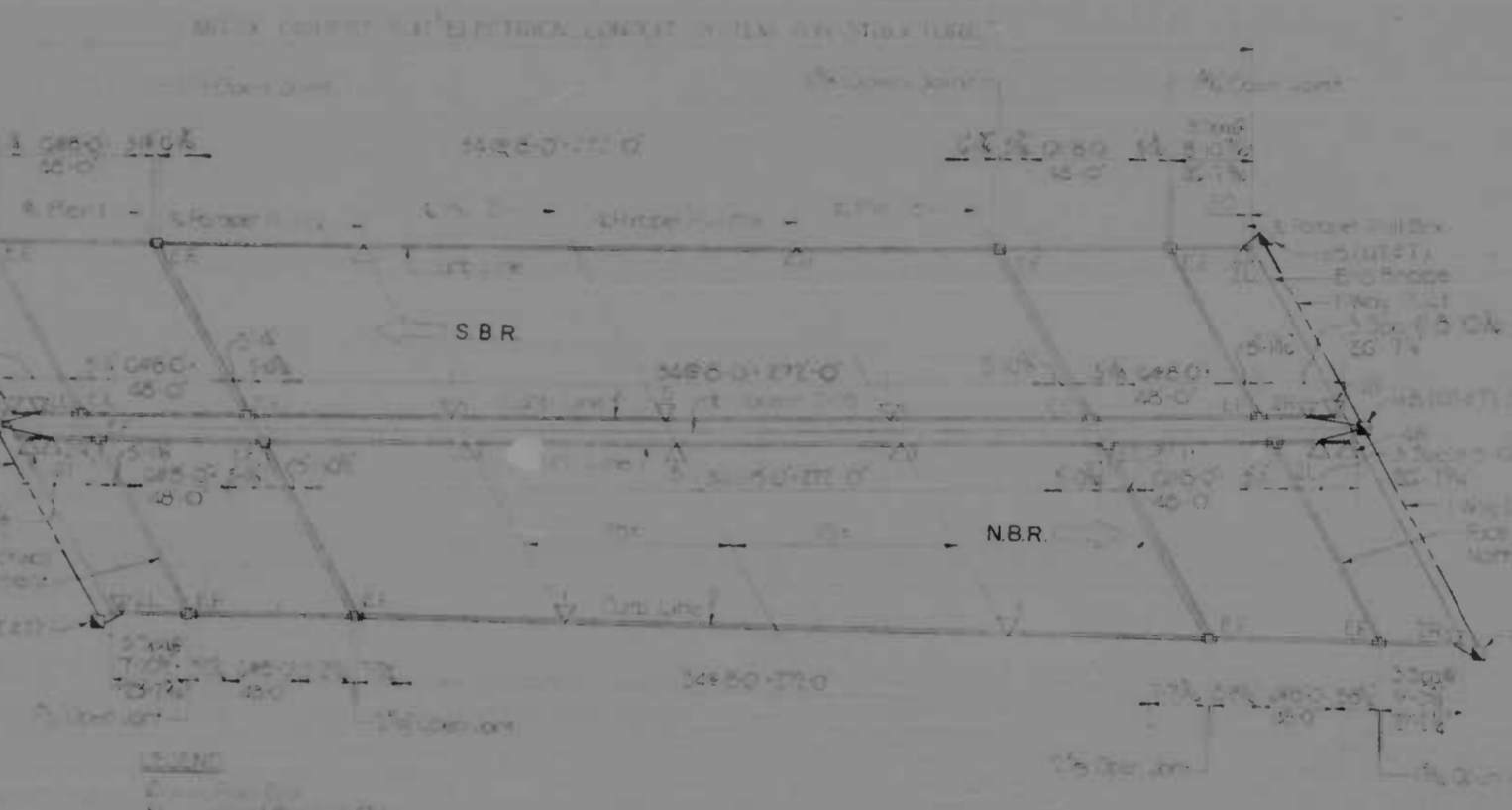
SECTION A-A



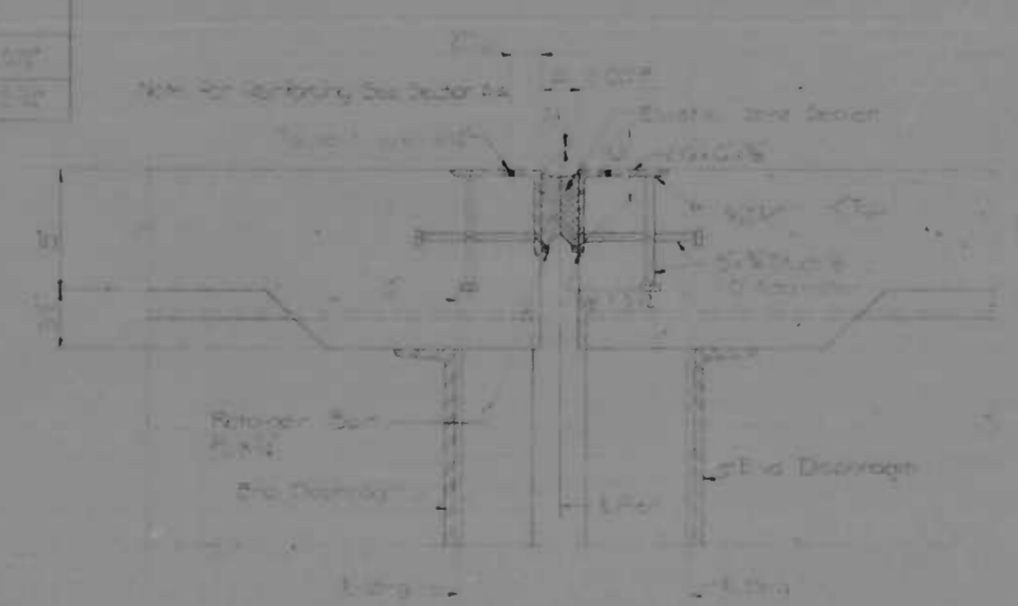
SECTION C-C



ELASTIC JOINT SEALER



PARAPET CONTRACTION JOINT SPACING



SECTION B-B

NOTES

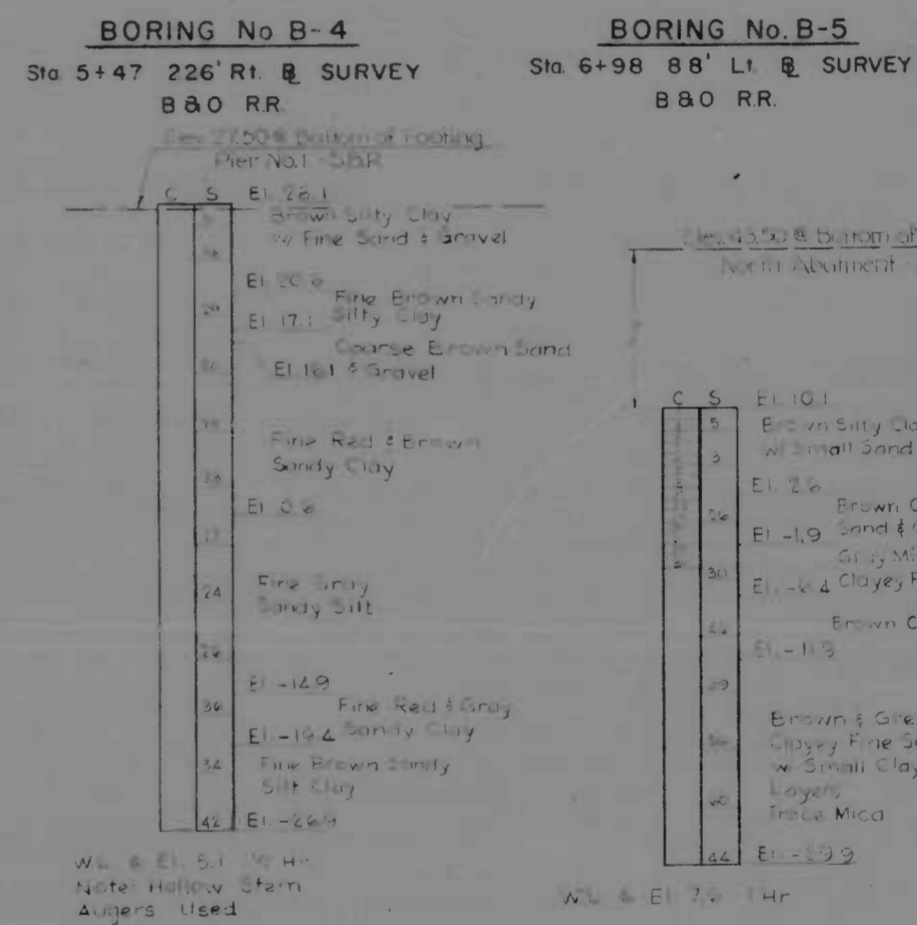
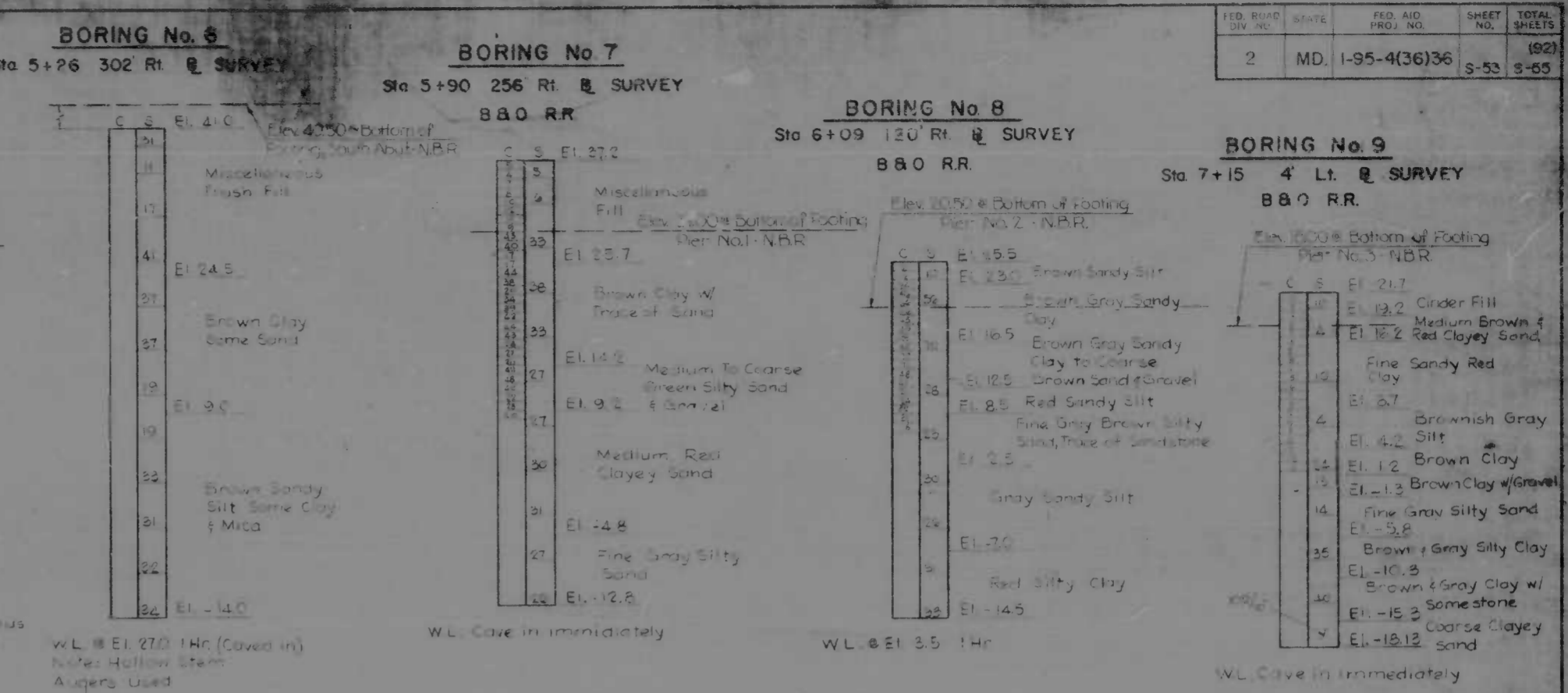
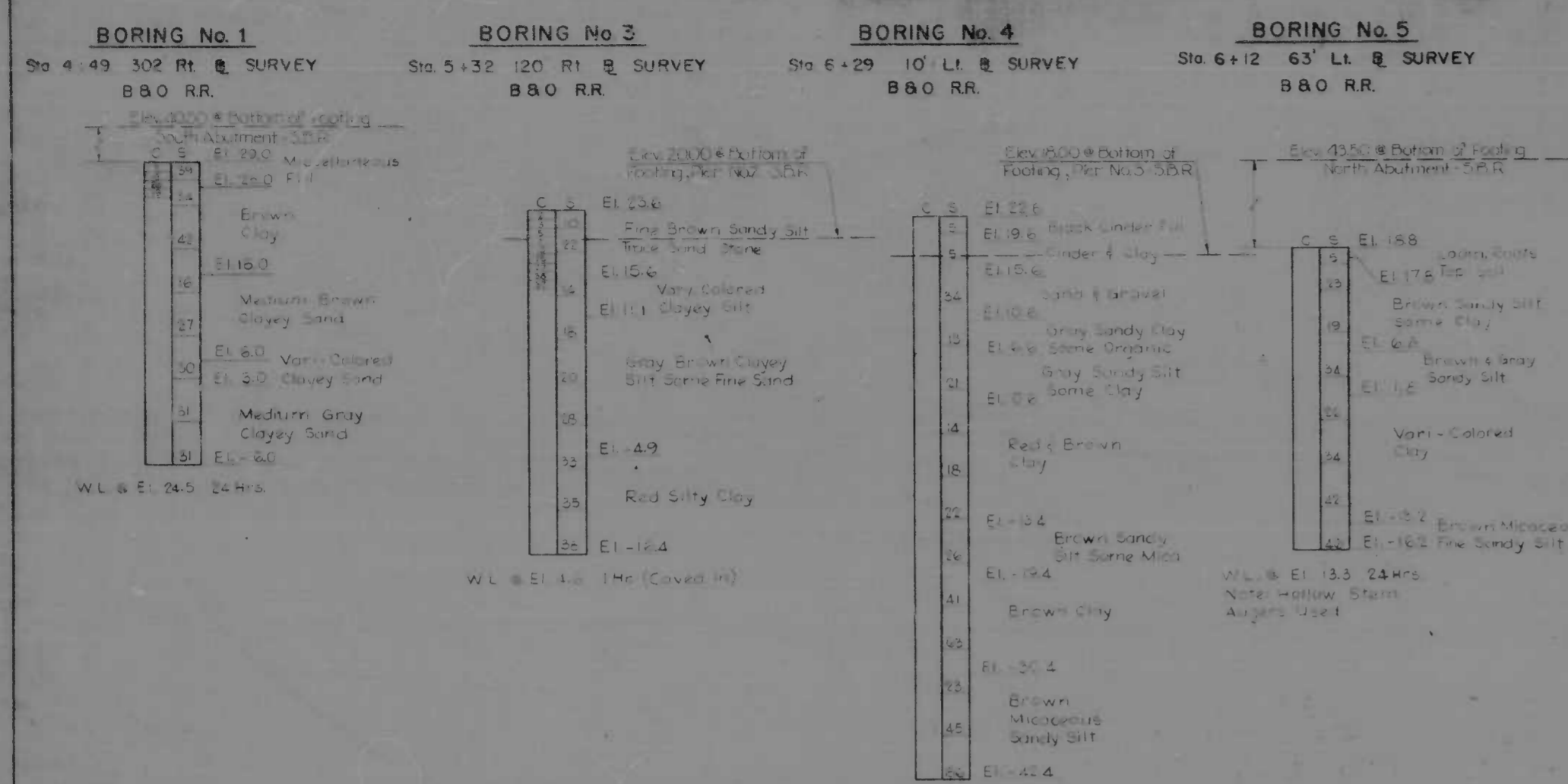
- Through wall plates to be spaced along bridge deck.
- Parapet Contraction Joint Spacing is measured along Curbside.
- Dimensions from centerline of road to be placed in all cases.
- Dimensions from centerline of road to be placed in all cases.

REVISIONS

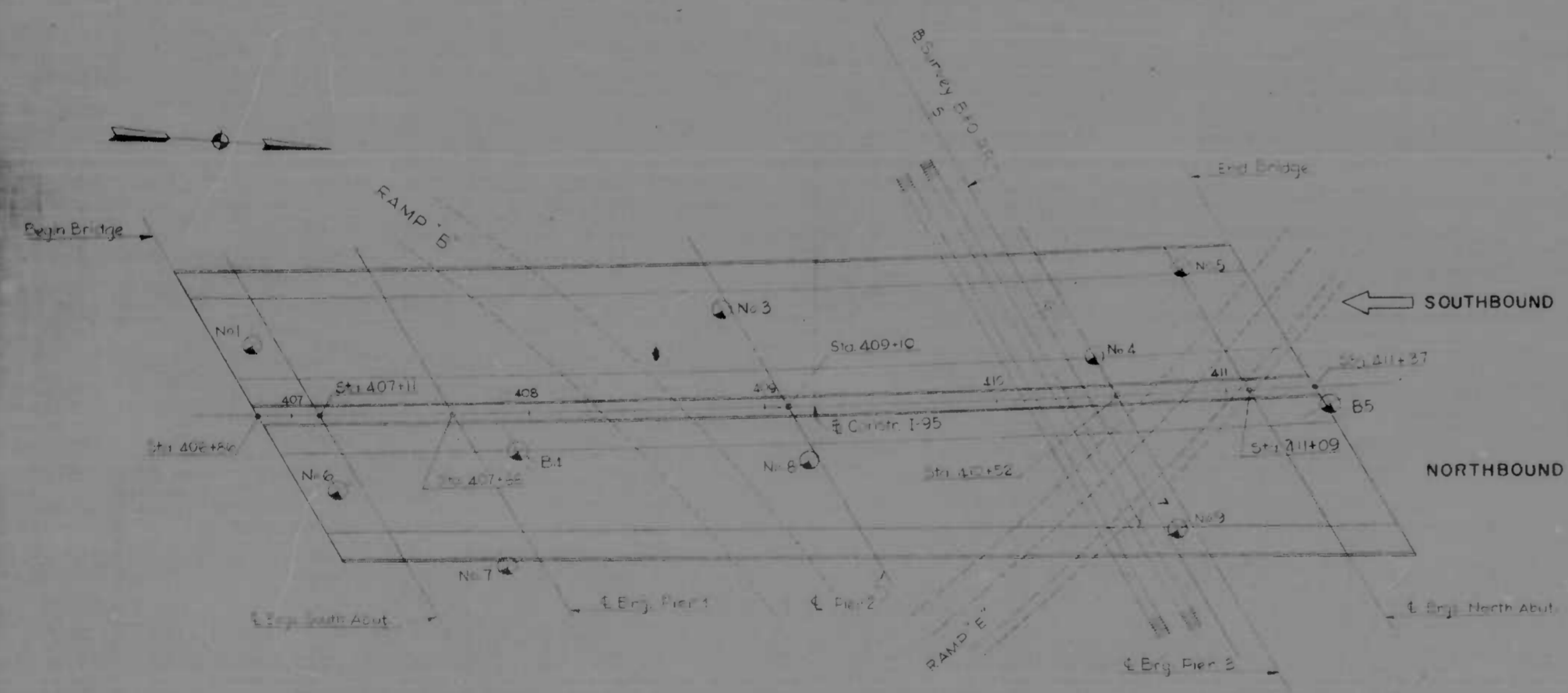
SHEET NO. (92)

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KIMMEL, BENDER, STONE & ASSOC., INC. AND WATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & R.O.R.R. EXPANSION JOINT DETAILS	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO.: 1-95-4(36)36 S.R.C. NO.: DC 246-33-B-5 BALTO. CITY NO.: 1995

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-53	5-65



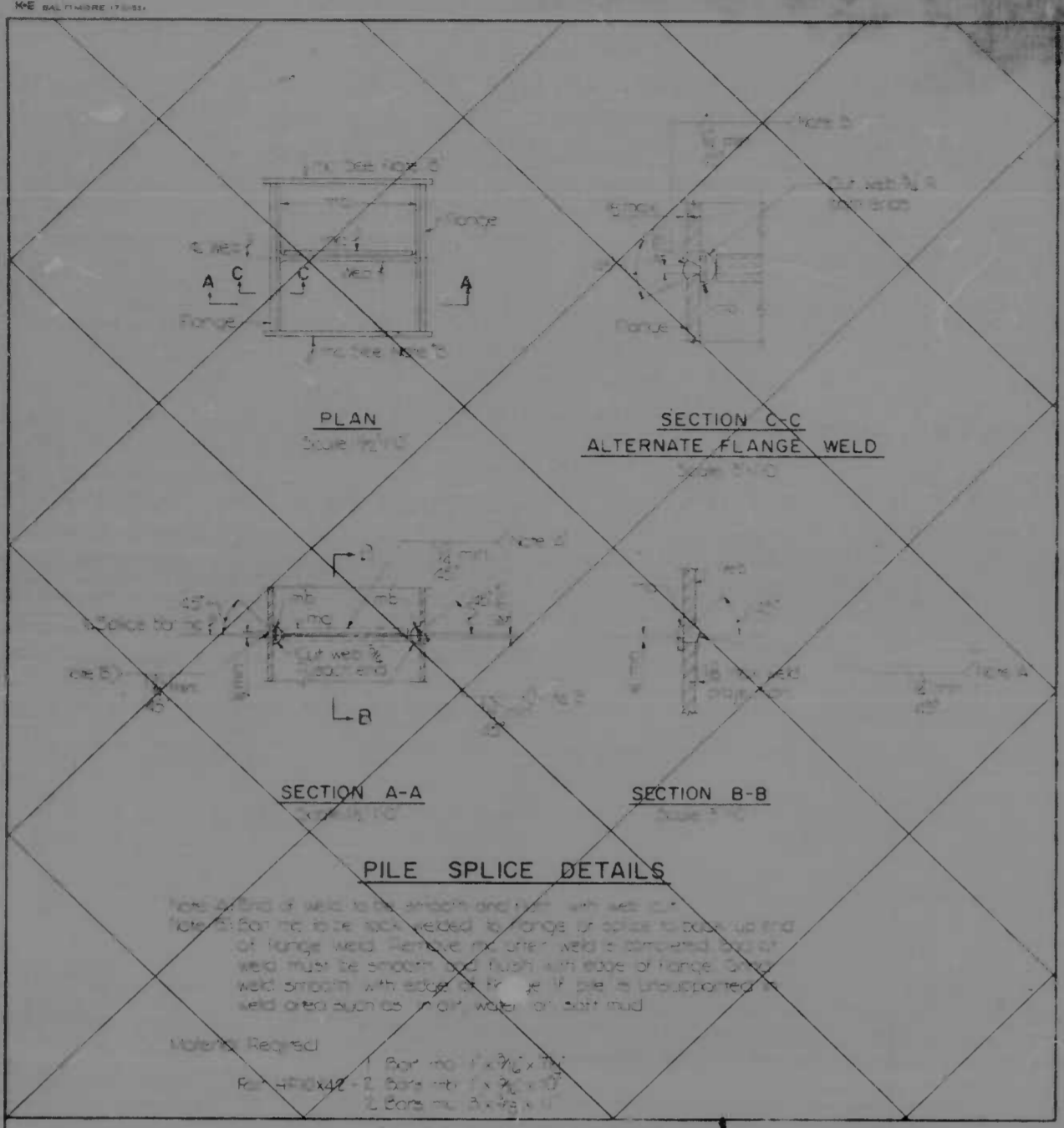
- NOTES:
1. Test Borings made in Jan. 1971, except No. B-4 & No. B-5 made in October 1972.
 2. C = Number of blows required to drive a 2 1/2" dia. casing one foot using a 300 lb. weight falling 20 inches.
 3. If no casing blows are shown a Hollow Stem Auger was used.
 4. S = Number of blows required to drive a 2" O.D. Sampling Spoon one foot using a 140 lbs. weight falling 30 inches.



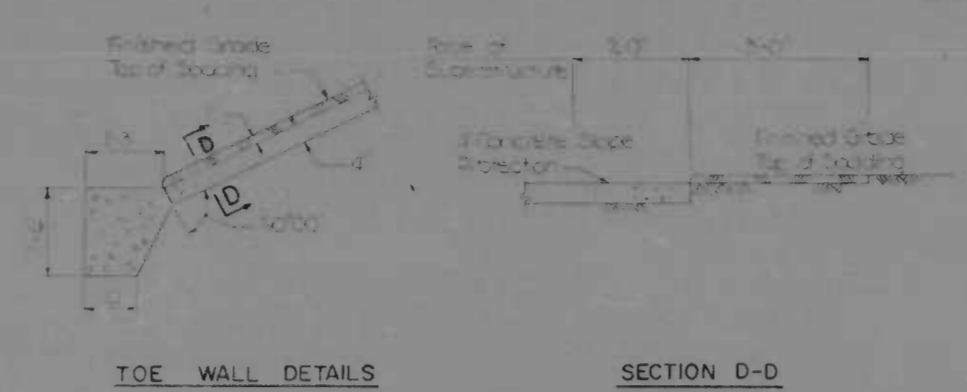
BORING LOCATION PLAN
1" = 40'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KNORRE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND, 21202	1-95-WINDLASS-MORAVIA INTERCHANGE 1-95 OVER RAMP "B" & B&O R.R. BORING DATA		DRAWN BY: R.V.P.	DES. BY: M.S.C.
		SCALE: As Shown		DATE: July 10, 1972	SHEET NO. (192) S-53 OF S-55

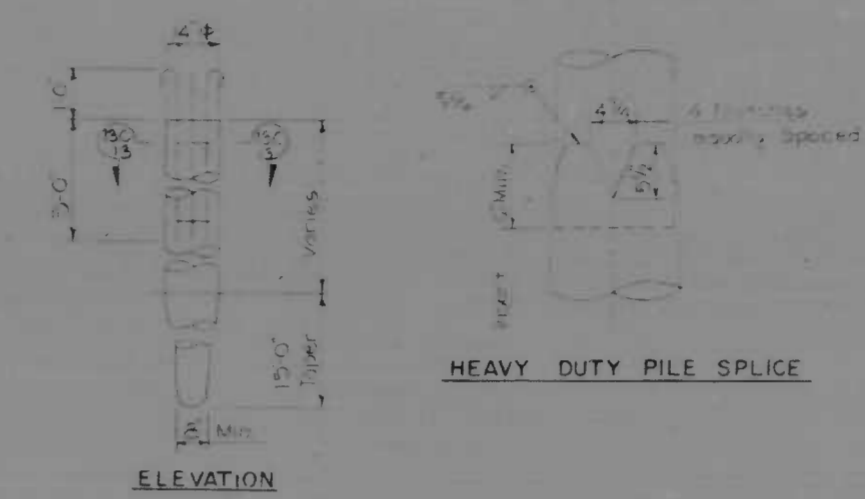
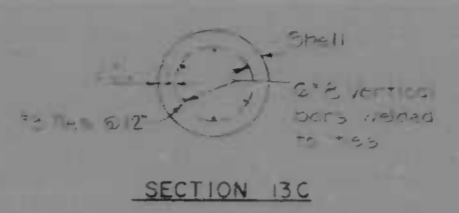
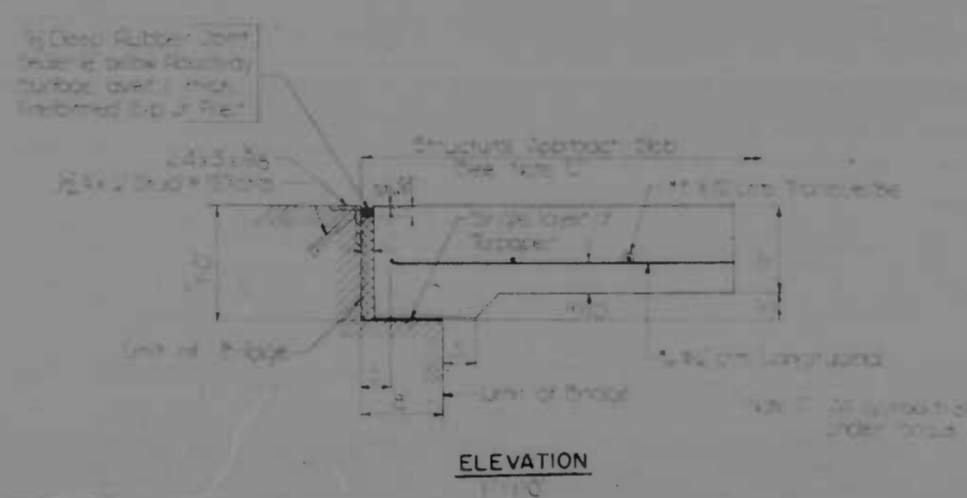
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	54	55



NOT IN CONTRACT

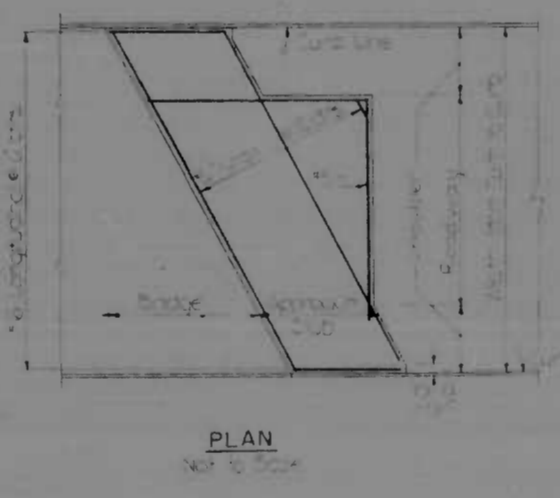
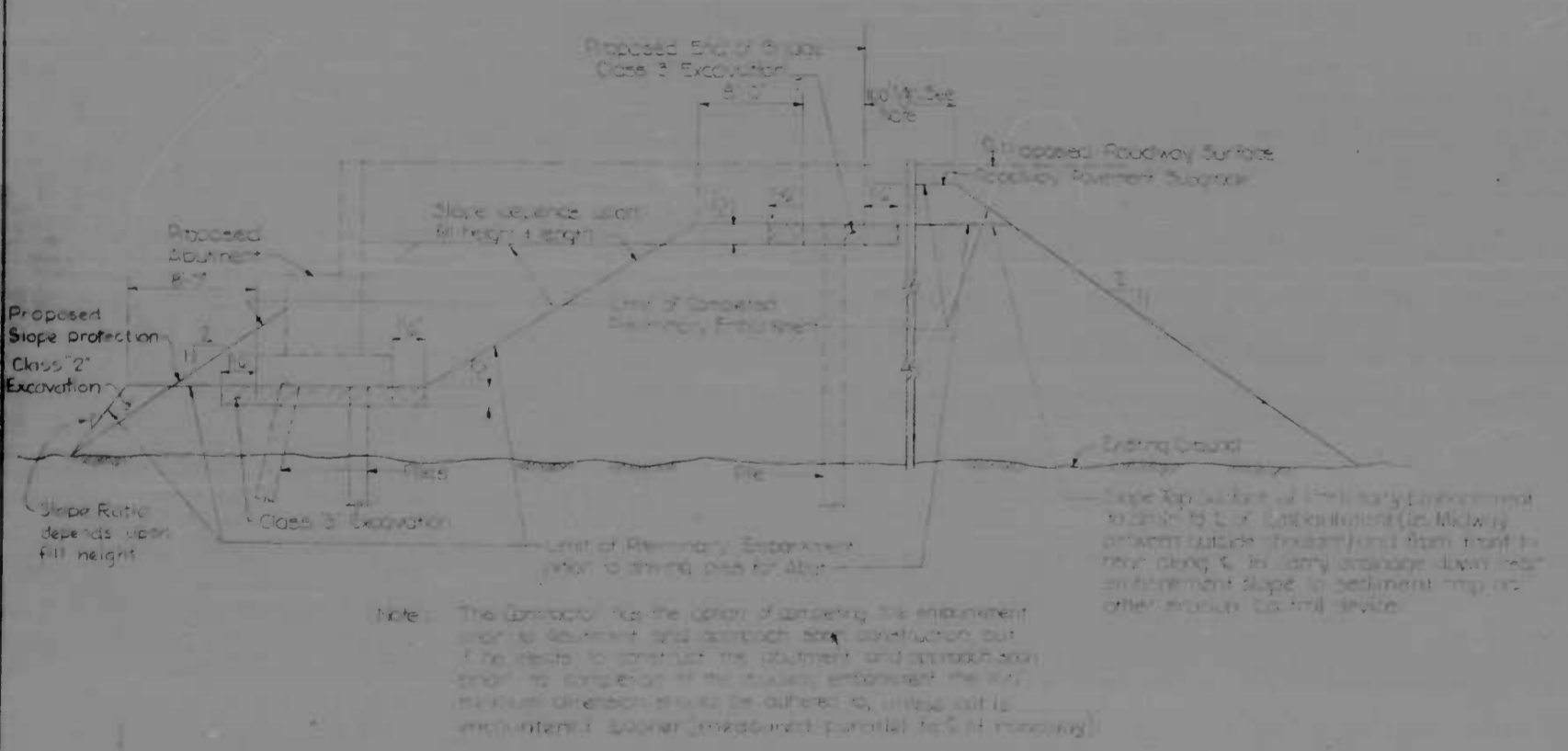


SLOPE PROTECTION DETAILS



C.I.P. CONCRETE PILE DETAILS

NOTES All piles shall be 48" diameter pipe piles. Cast in place concrete shall be placed in accordance with approved value of 2000 lbs. per sq. ft. of refusal.



TYPICAL APPROACH SLAB DETAILS

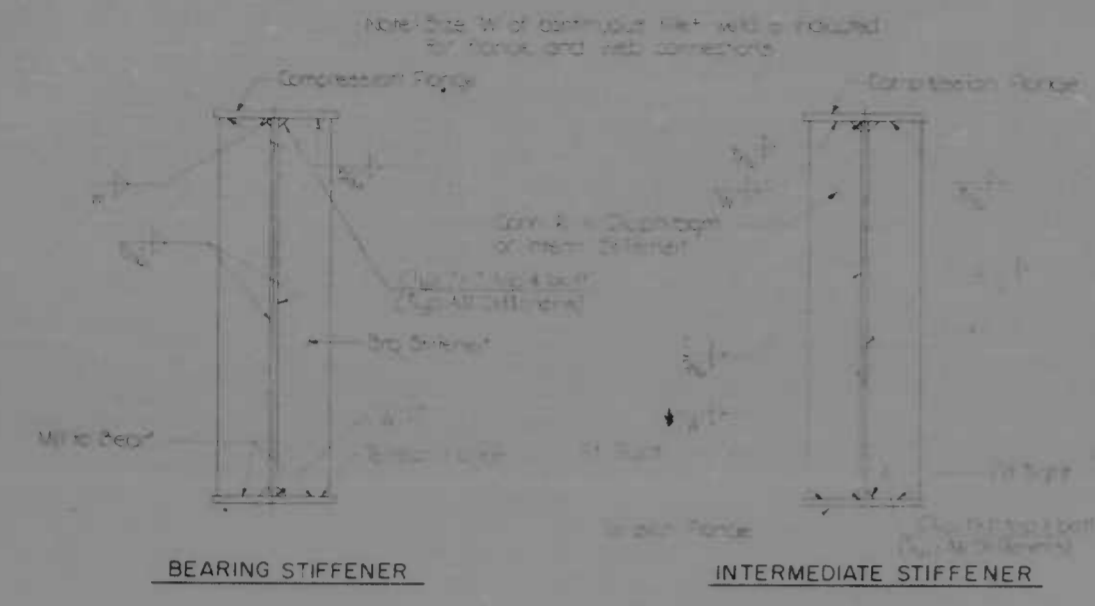
Note: Should the contractor choose to complete the embankment prior to the construction of the abutment and approach span, only the cross-sections indicated in the Preliminary Embankment Details will be paid for as Class 3 Excavation.

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, CHURS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET TIMORE MARYLAND 21202	I-95-WINDLASS-MORAVIA INTERCHANGE SUBSTRUCTURE DETAILS	DRAWN BY: L.M.W. DES. BY: M.S.C. TRACED BY: L.M.W. CHK. BY: F.F.M. F.A.P. NO.: I-95-4(36)36 SHEET NO.: (92) S.R.C. NO.: BC 246-33-815 BALTO. CITY NO.: 1995 S-54 or S-55
		SCALE: AS SHOWN	DATE: JUNE 1995

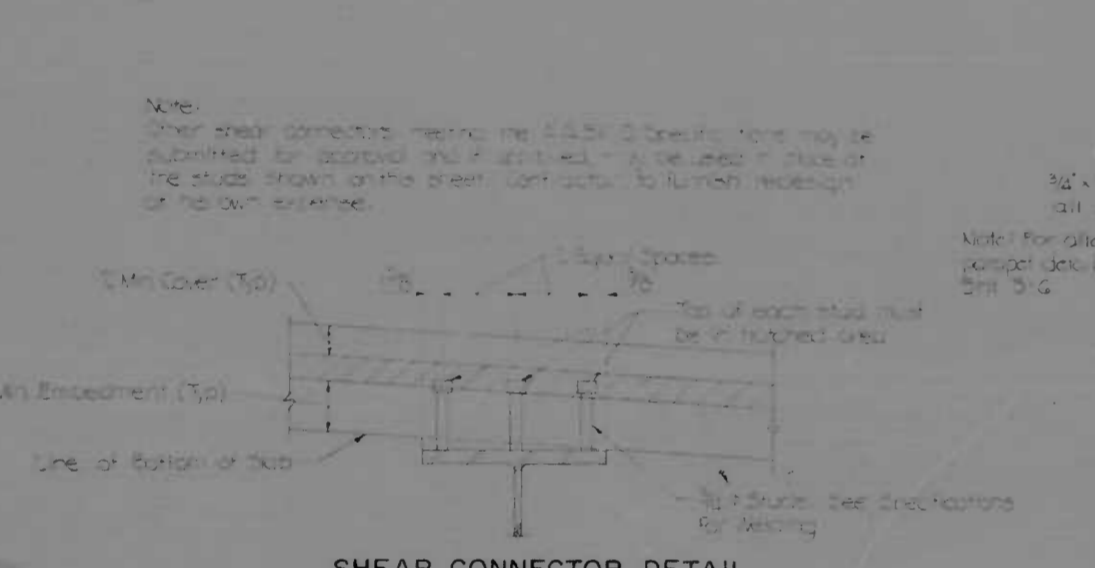
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-55	55

PLATE & THICKNESS	MAX. DIST. W.
Over 1/2" to 1 1/2"	1/4"
Over 1 1/2" to 2 1/2"	3/8"
Over 2 1/2" to 4"	1/2"

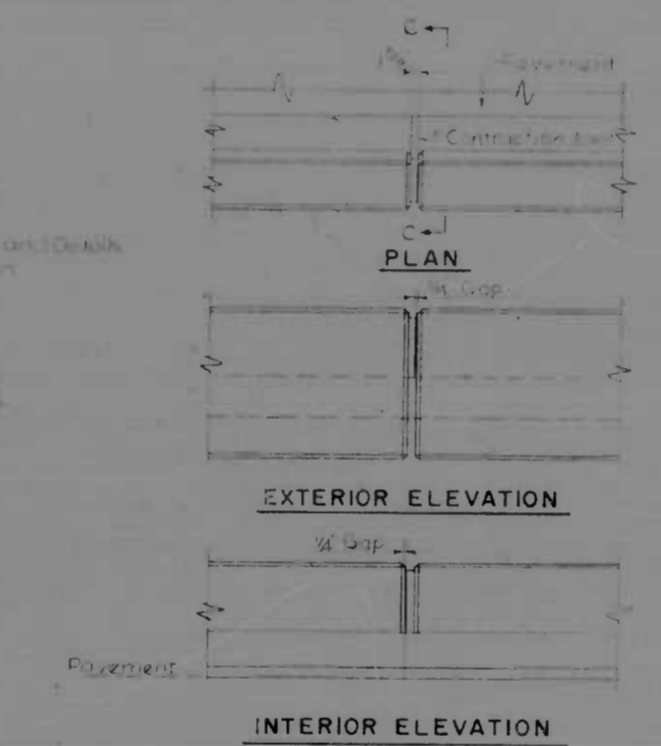
STRUCTURE	TYP.
Ramp & Over	1%
Over 1/2" to 1 1/2"	1/4"
Ramp & Over	1%
Over 1 1/2" to 2 1/2"	3/8"
Over 2 1/2" to 4"	1/2"



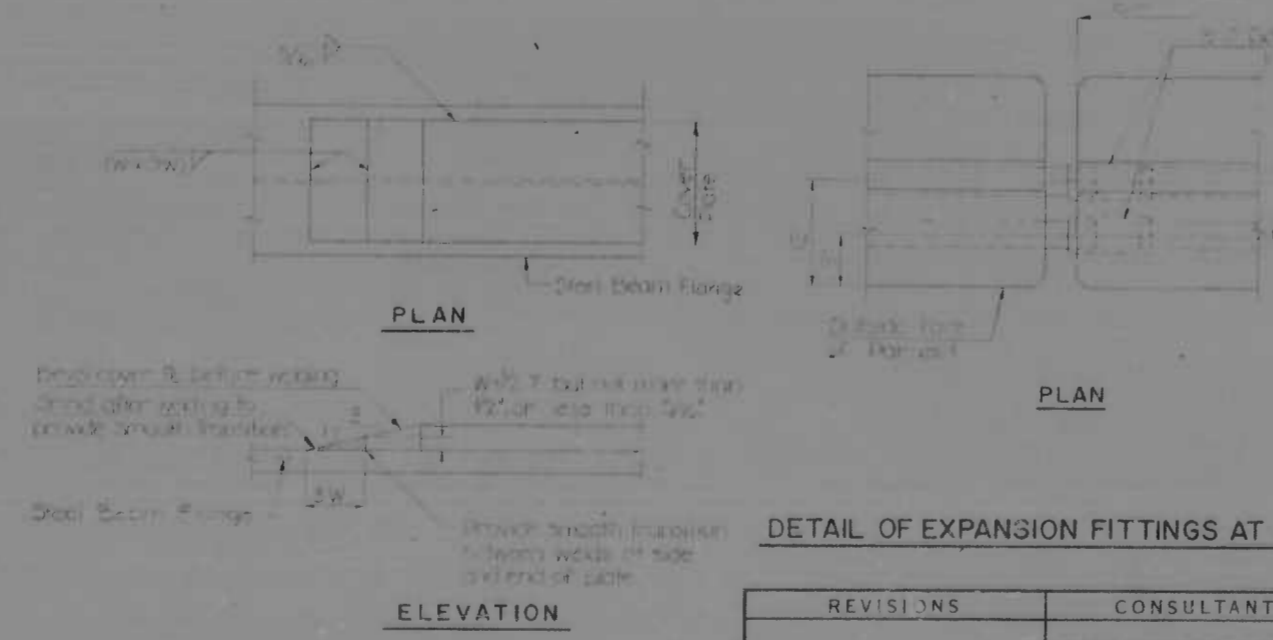
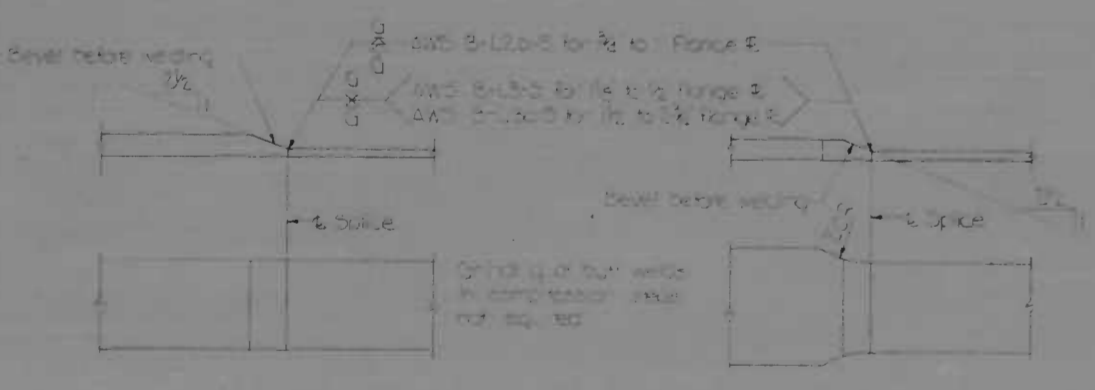
WELD DETAIL
Not to Scale



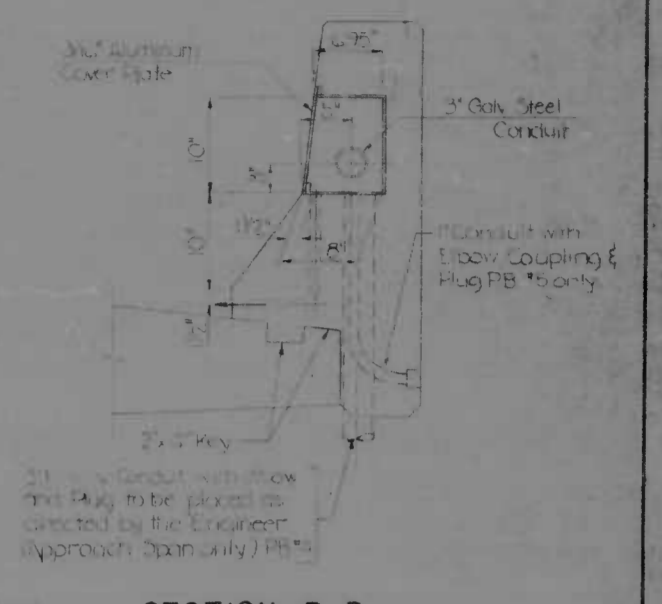
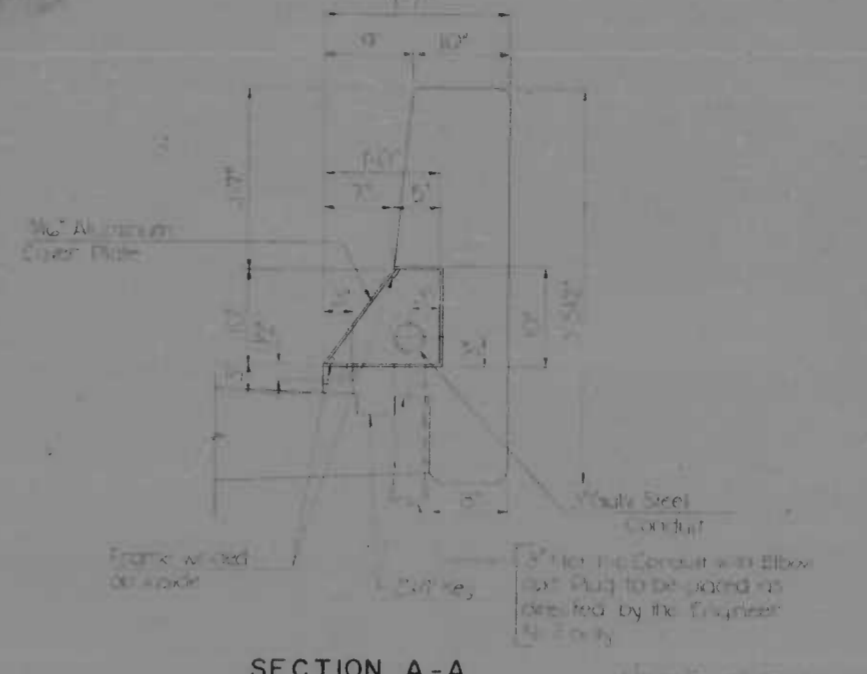
STEEL FORMS TO REMAIN IN PLACE
Scale: 3/8" = 1'-0"



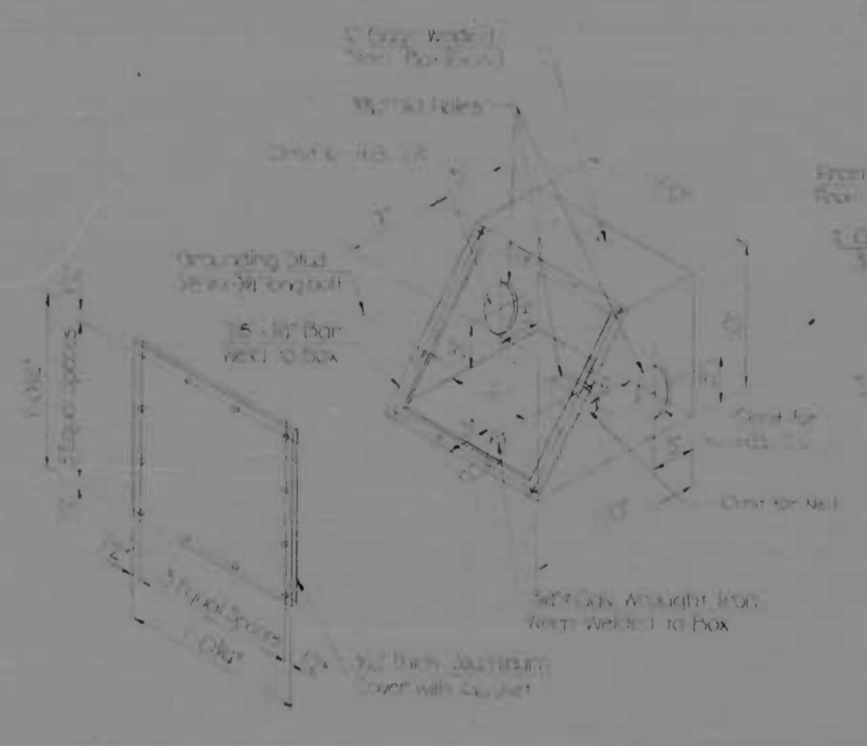
PARAPET JOINT DETAILS
Not to Scale



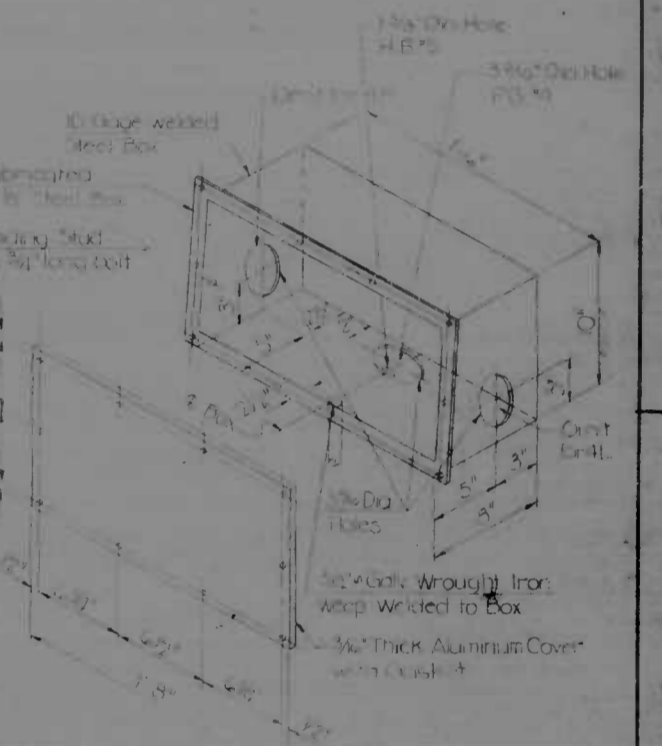
COVER PLATE DETAILS
Not to Scale



TYPICAL PULL BOX DETAILS FOR TRANSIT AND TRAFFIC
Scale: 1/4" = 1'-0"
Pull Box No. 12 (Road 12)



TYPICAL PULL BOX DETAILS FOR LIGHTING
Scale: 1/4" = 1'-0"
Pull Box No. 4R (Lighting)



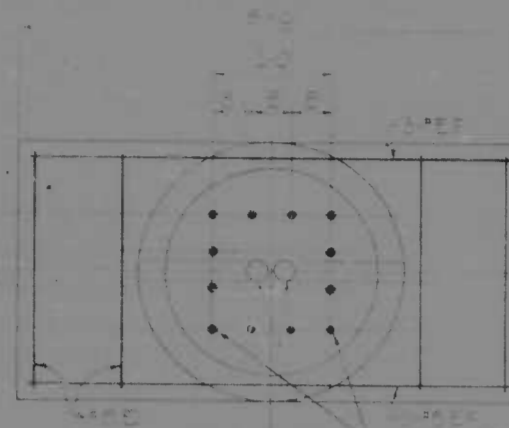
DETAIL OF EXPANSION FITTINGS AT JOINTS

ELEVATION-PARAPET PULL BOX

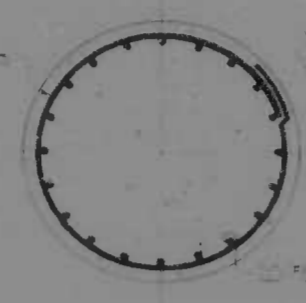
Notes:
Minor deviation from box dimensions will be allowed if construction designs so require. But only after approval by the Interstate Division, For Baltimore City.
The box cover is to be of aluminum alloy with pebble or shot finish. The face of the cover must be flush with the face of concrete. A 1/2" rubber gasket is to be fitted between the cover and box flanges. Drill and tap holes in box flanges and fasten cover to box with 1/2" dia. stainless steel countersunk Phillips head screws.
Pull box shall be hot dipped galvanized after fabrication.
All box dimensions are inside dimensions.
Note: For Uniformity Request Pull Boxes use S-52

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOERLE, DENNER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 343 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS-MORAVIA INTERCHANGE SUPERSTRUCTURE DETAILS	
		DRAWN BY: JRM TRACED BY: JRM	DES. BY: MSC CHK. BY: FFM
		F.A.P. NO. I-95-4(36)36	SHEET NO. (92)
		S.R.C. NO. BC 240 33 90	S-55 of S-55
		BALTO. CITY NO. 1995	

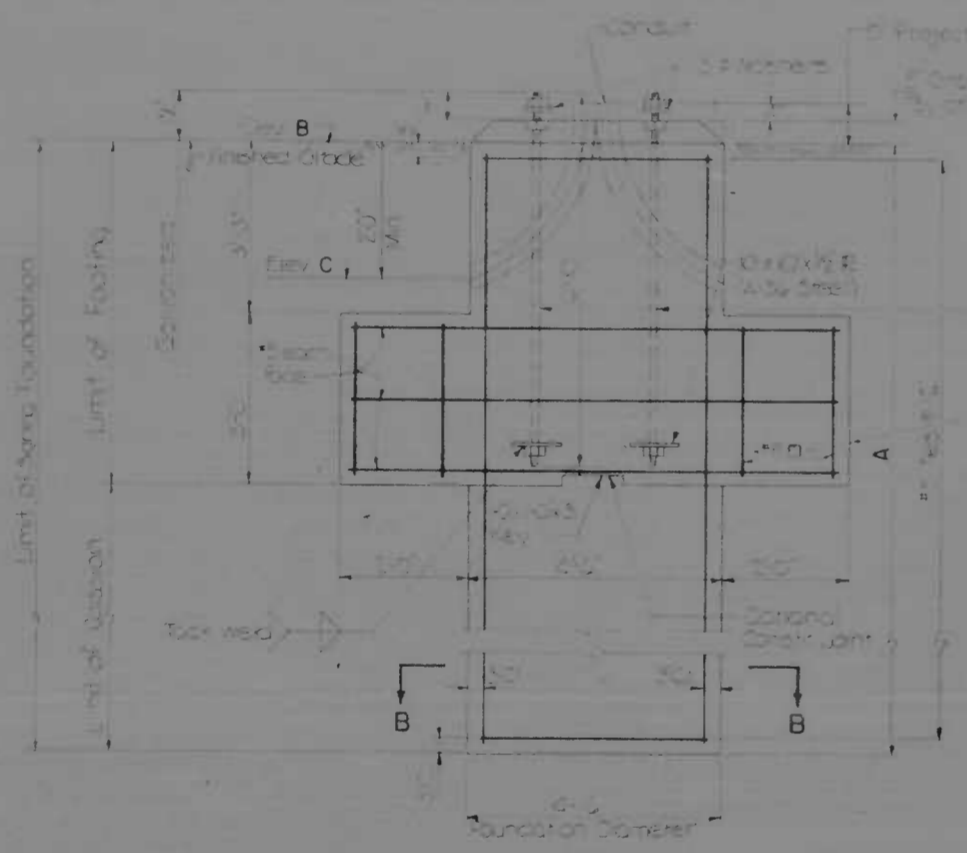
REV. NO.	DATE	BY	CHKD.	DATE
2	MD 1-95	4/30/95	5-204	1991-5-25



ANCHOR BOLT LOCATION
Scale: 1/4" = 1'-0"

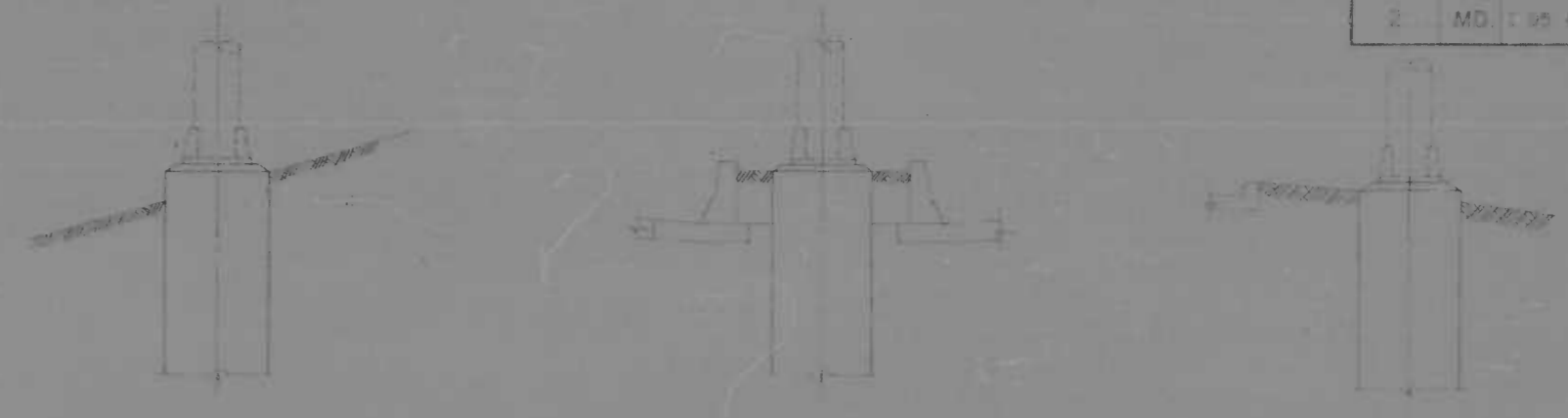


SECTION B-B
Scale: 1/4" = 1'-0"

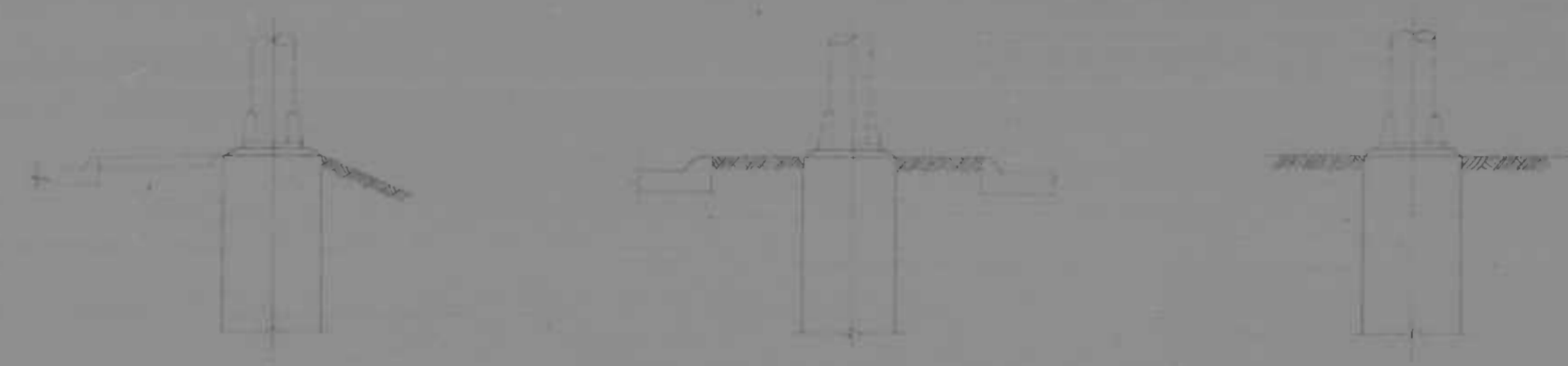


SIGN FOUNDATION
Scale: 1/4" = 1'-0"

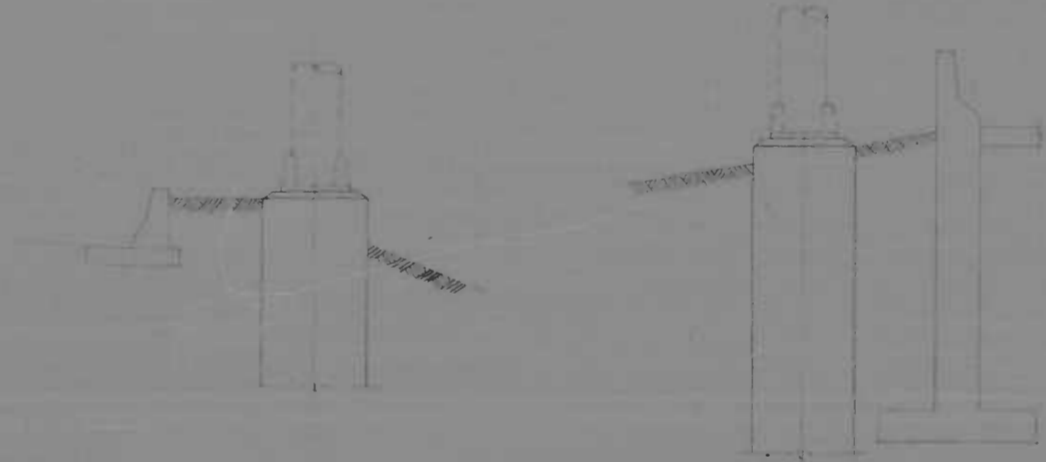
SIGNING FOUNDATION						
LOCATION		FOOTING AND ANCHOR BOLT DATA		TYPE OF STRUCTURE	BORING NO.	ELEVATION OF CONDUIT EXIT
STATION	OFFSET TO C OF FOUNDATION	A	ELEV. 'B'			
404+50	27.25' (1' & 1/2" from 175)	22'-0"	74.91	21	KA 2	72.21
205+00	5.75' (1' & 3/4" from 175)	20'-0"	74.38	12	45	75.85
205+00	12.25' (1' & 3/4" from 175)	20'-0"	73.97	12	45	76.24



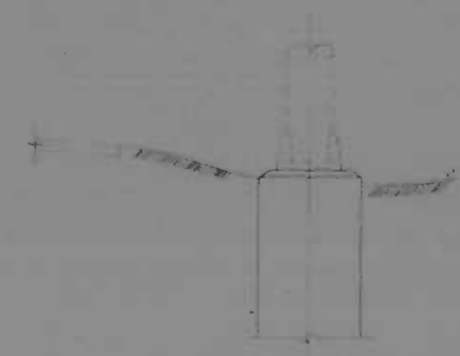
CASE I CASE II CASE III



CASE IV CASE V CASE VI



CASE VII CASE VIII



CASE IX

GENERAL NOTES:
 1. CASE I THROUGH CASE IX ARE SPECIAL PROVISIONS AND APPLY TO FOUNDATIONS UNDER HIGHWAY SPECIAL PROVISIONS FOR MATERIALS AND CONSTRUCTION. SPECIAL PROVISIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURE SUPPORTS FOR HIGHWAY SIGNS (PART 205.00) AND TRAFFIC SIGNALS (PART 205.00) APPLY.
 2. DESIGN WIND: 35 PSF
 3. CONCRETE: Class 95 Concrete and rebar minimum ultimate strength of 5000 PSI. 28 days for Reinforced Concrete. Design at 100% PSI. See Special Provisions.
 4. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 3/8" WITH RIBBED CHAMFER STRIPS.
 5. REINFORCING STEEL: Reinforcing steel shall conform to ASTM designation A603 (Grade 60) or A615 (Grade 65) and shall be tested a minimum of 2 bar lengths unless otherwise noted. Minimum cover for any bar shall be 3" unless otherwise noted.
 6. ANCHOR BOLTS UP TO AND INCLUDING 1/2" SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A307. ANCHOR BOLTS GREATER THAN 1/2" SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A325.
 7. MINIMUM DESIGN TENSION TIGHTENING PRESSURE SHALL BE 5000 PSI.
 8. EXISTING UTILITIES: Existing conduits, pipes, manholes, overhead lines, surface obstructions, etc. which may affect the work of this project have been shown on this plan from recorded data. However, the contractor shall not assume responsibility for the accuracy or completeness of this information. It shall be the responsibility of the contractor to locate and protect all existing facilities which may be affected by the work of the operations.
 9. HORIZONTAL ALIGNMENT: Position of overhead signs to face the face of panel is to right angles to normal edge of roadway. If any alignment angle other than 90 degrees to the tangent to the curve of the highway is shown on a horizontal curve.

REFERENCES:
 BORING LOGS: 5-204
 CONDUIT ENTITIES: 204-100-000

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD SIGNING FOUNDATION DETAILS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	ANDERLE, BENDER, STORE & ASSOC., INC. AND MATT CHIDS & ASSOC., INC. CONSULTING ENGINEERS 300 N. CALVERT STREET BALTIMORE, MARYLAND 21201		DRAWN BY: L.M.W. CHECKED BY: L.M.W. P.A.P. NO: 1-95-4154/35 S.P.C. NO: 85-246-33-110 BALTO. CITY NO. 11935	DES. BY: BCC CHK. BY: DNEP
SCALE: AS SHOWN	DATE:			

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	152	152

BORING NO. 4-1
Sta. 508+00 25' Lt. Constr. Ramp 'E'



BORING NO. 4-2
Sta. 413+20 Constr. I-95 NBR



BORING NO. 4-3
Sta. 18+35 35' Rt. Constr. Ramp 'A'



BORING NO. 4-4
Sta. 519+00 70' Rt. Constr. Ramp 'E'



BORING NO. 4-5
Sta. 205+00 52 25' Lt. Constr. Ramp 'E' 'C'



BORING NO. 4-6
Sta. 522+50 35' Lt. Constr. Ramp 'E'



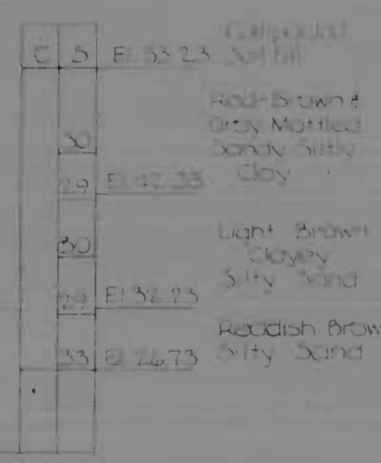
BORING NO. 4-7
Sta. 99+80 70' Rt. Constr. Pulaski Hwy



BORING NO. A-1
Sta. 23+35 35' Rt. Constr. Ramp 'A'



BORING NO. A-2
Sta. 404+10 Constr. I-95



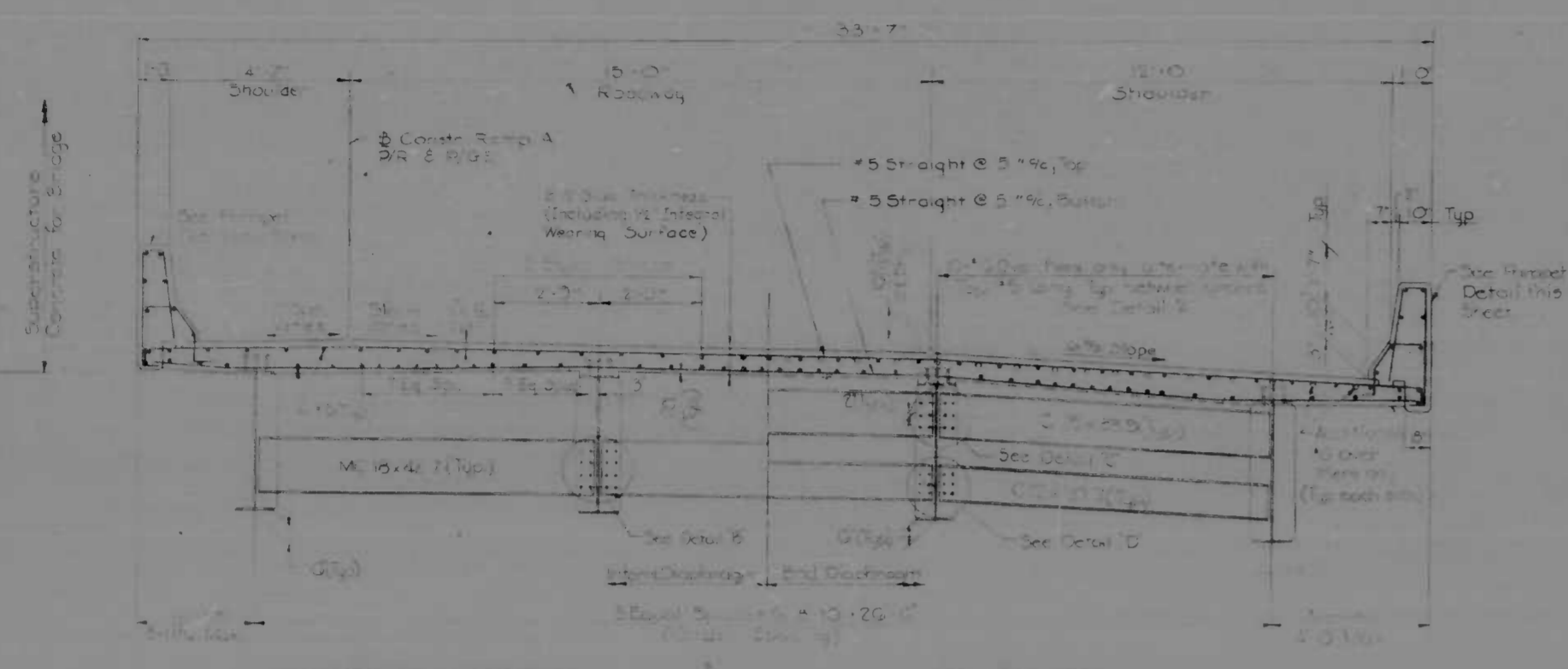
BORING NO. B
Sta. 6+09 120' Rt. Survey B & O R.R.
(Sta. 409+19 24' Rt. Constr. Ramp 'A') I-95



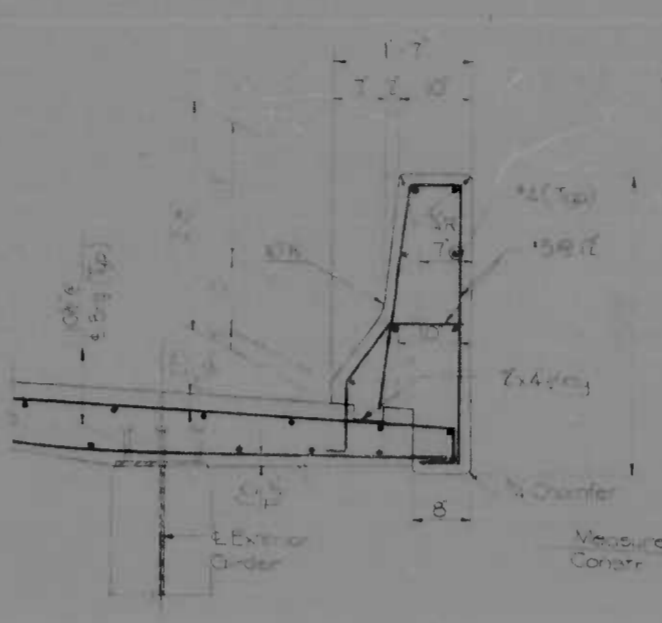
Notes:
 1. Test borings were conducted and logged in April, 1995.
 2. Test borings were 1.5 to 2.0 feet in diameter.
 3. Construction of borings was completed by 10:00 AM on the day of the test.
 4. Test logs were prepared by the contractor.
 5. Test logs were reviewed by the State Roads Commission.
 6. Test logs were approved by the State Roads Commission.
 7. Test logs were approved by the State Roads Commission.
 8. Test logs were approved by the State Roads Commission.

REVISIONS 1. ADDITION TO PLAN SHEETS 2/19/73 2. REVISED 4/2/73		CONSULTANT ANDERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 411 N. CALVERT STREET BALTIMORE, MARYLAND 21202		CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD BORING DATA		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
DRAWN BY: M.S.F. CHECKED BY: M.S.F.		DES. BY: B.C.C. CHK. BY: D.M.P.		F.A.P. NO: I-95-4(36)36 S.P.T. NO: BC 246-33 815		SHEET NO: 152 OF 152	
SCALE: AS SHOWN		DATE: 1995		BALTO. CITY NO: 1995		STATE ROADS COMMISSION NO: 1995	

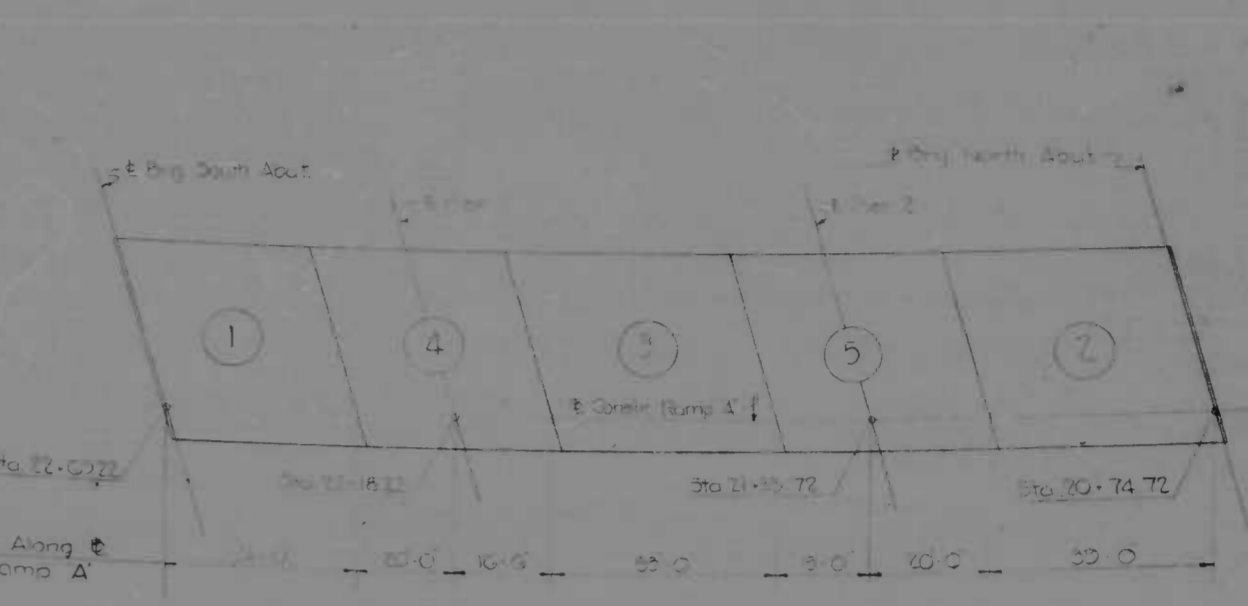
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-6	(92) S-55



TYPICAL DECK SECTION
SPAN 1 THRU 3
Scale: 3/8"=1'-0"



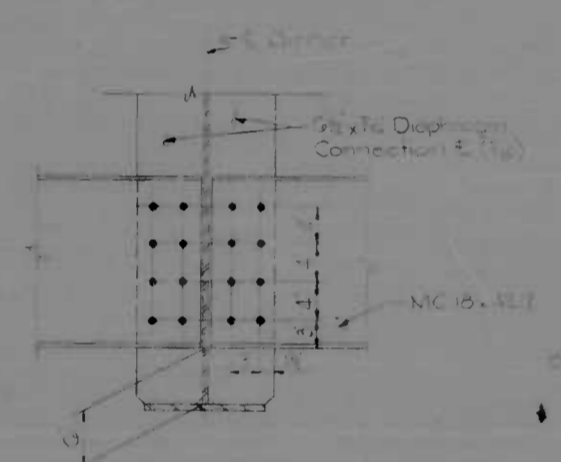
PARAPET DETAIL
Scale: 3/4"=1'-0"



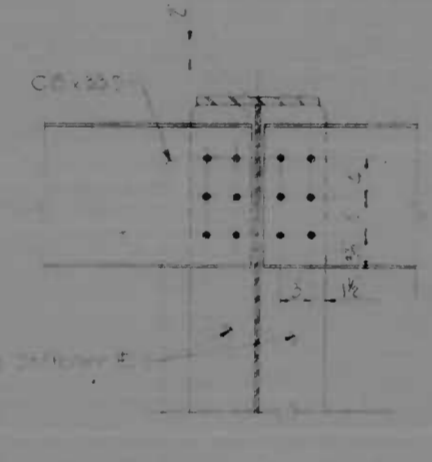
DECK POURING SEQUENCE DIAGRAM
Not to Scale

Note: Pours 1, 3 and 5 may be made simultaneously and after 45 hrs., pours 4 and 2 may be made simultaneously.

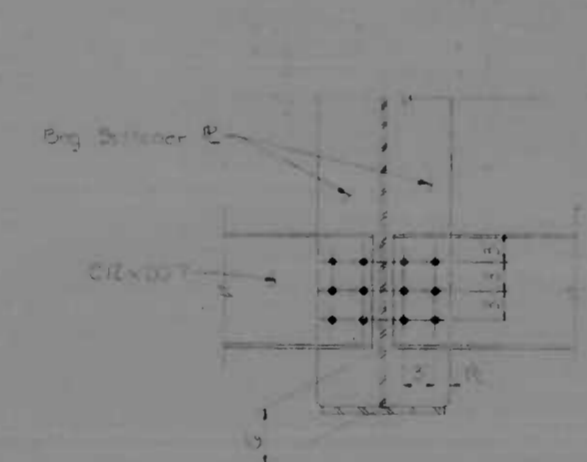
Note: All horizontal dimensions are measured normal to E. Constr. Ramp A except girders spacings are measured perpendicular to Girders 10, 20 and 30.



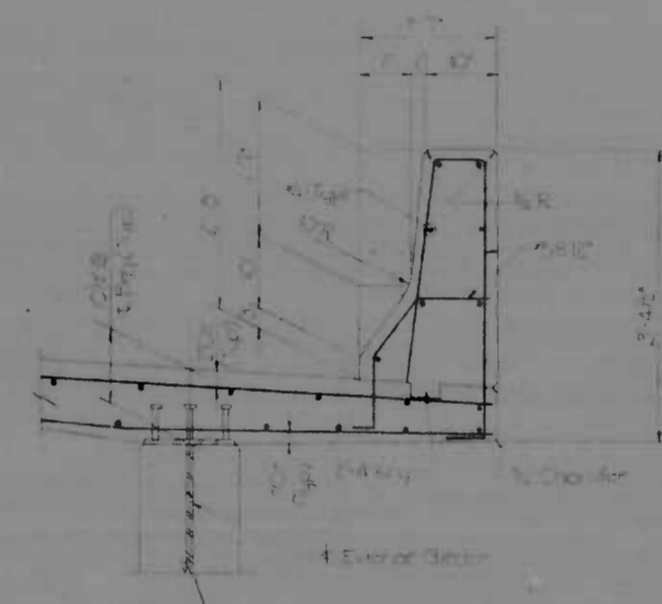
DETAIL "B"
Scale: 1/2"=1'-0"



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



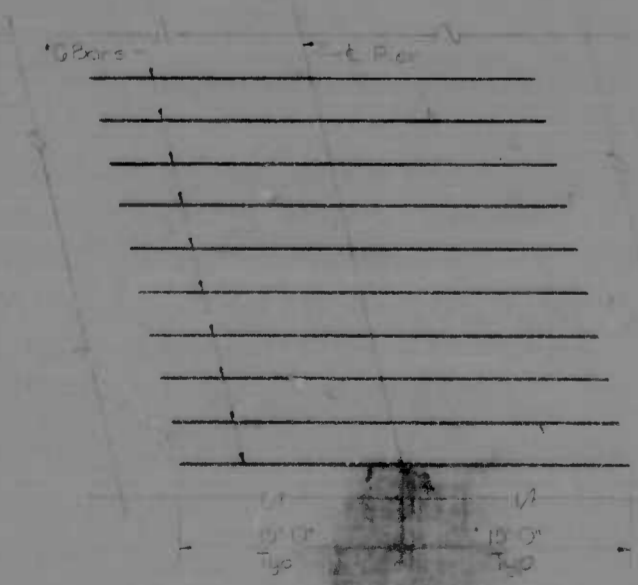
DETAIL "D"
Scale: 1/2"=1'-0"



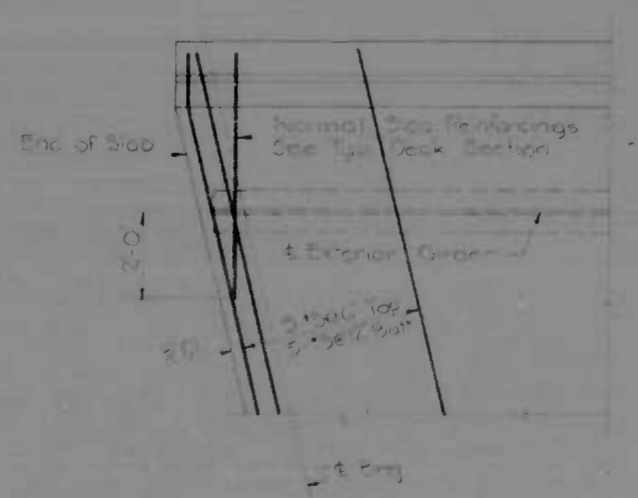
ALTERNATE PARAPET DETAIL
Scale: 3/4"=1'-0"

NOTES:
Additional Reinforcement shall be placed as shown on Details "A" between normal Longitudinal Top Reinforcement.
Transverse Slab Reinforcements shall be placed normal to beams.
All Field Bolts shall be 3/8" high strength bolts.

REFERENCED:	SHEET NO.
Cross Slope	S-1
Framing Plan	S-8
Shear Connector Details	S-55
Lighting Conduit Detail	S-55



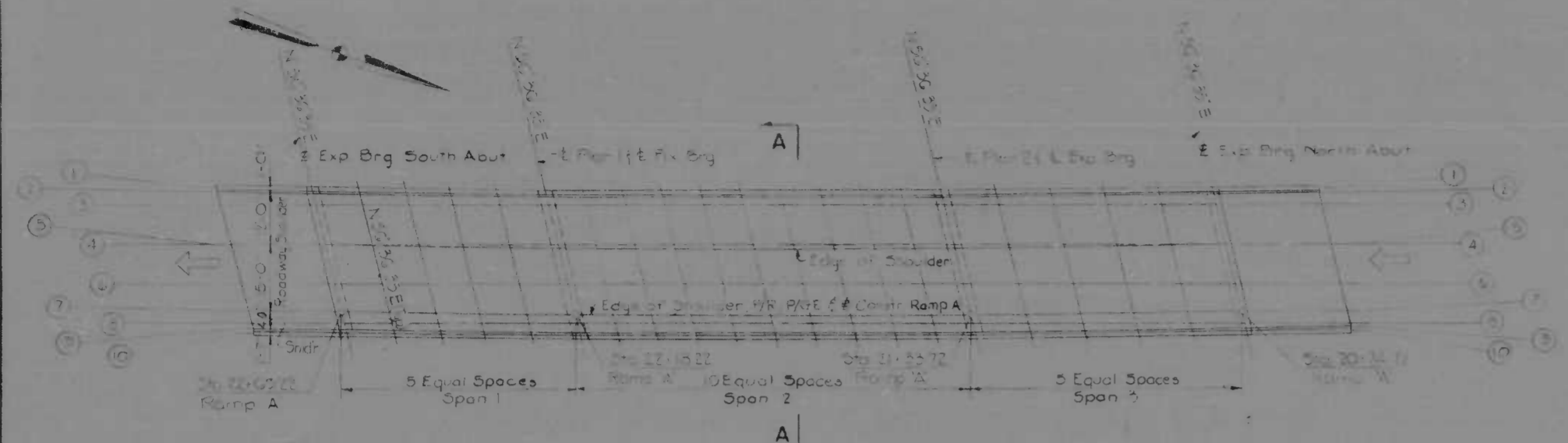
DETAIL "A"
Not to Scale



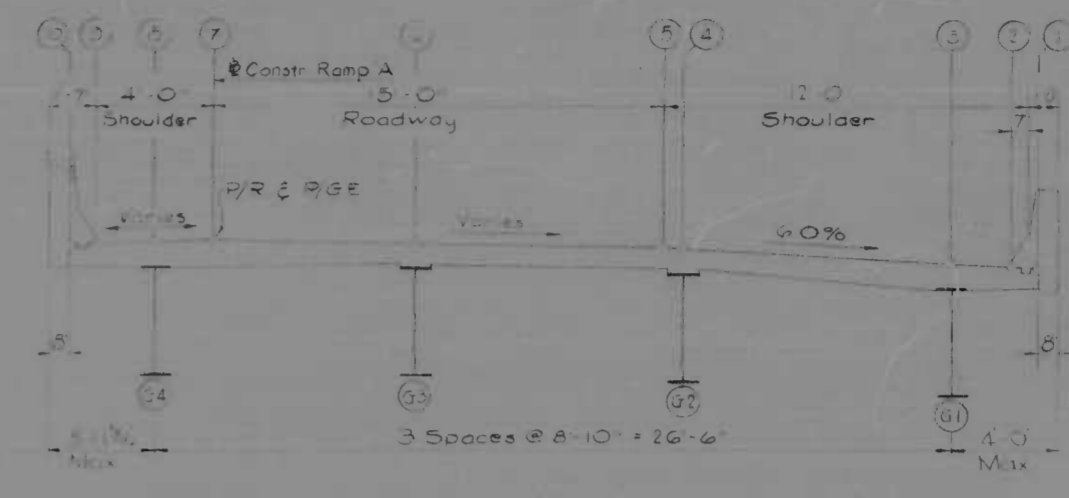
SLAB REINFORCING AT ACUTE CORNER
Scale: 3/4"=1'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KROEHL, BENDER, STONE & ASSOC., INC. AND MATZ, CIPRI & ASSOC., INC. CONSULTING ENGINEERS 245 N. CALVERT STREET BALTIMORE, MARYL. MD. 21202	I-95-WINDLASS-MORAVIA INTERCHANGE RAMP A OVER B & O R R TYPICAL DECK SECTION	DRAWN BY: MSF TRACED BY: MSF DES. BY: W.J.W. CHK. BY: F.F.M.
		SCALE: As shown	DATE: 5/27/95
		F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO.: 1995	SHEET NO.: (92) S-6 of S-55

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	S-7	(92) S-55



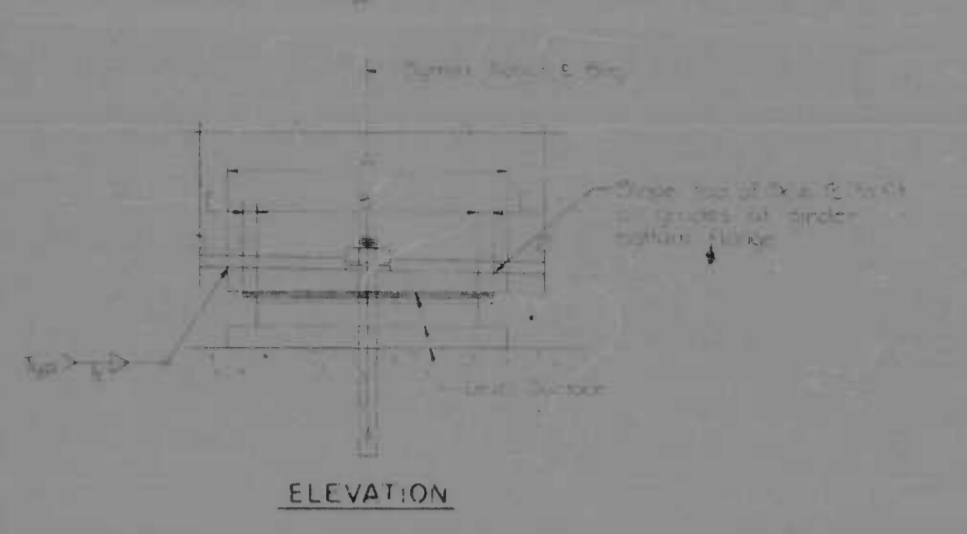
SUPERSTRUCTURE ELEVATIONS - KEY PLAN
Scale: 1" = 20'-0"



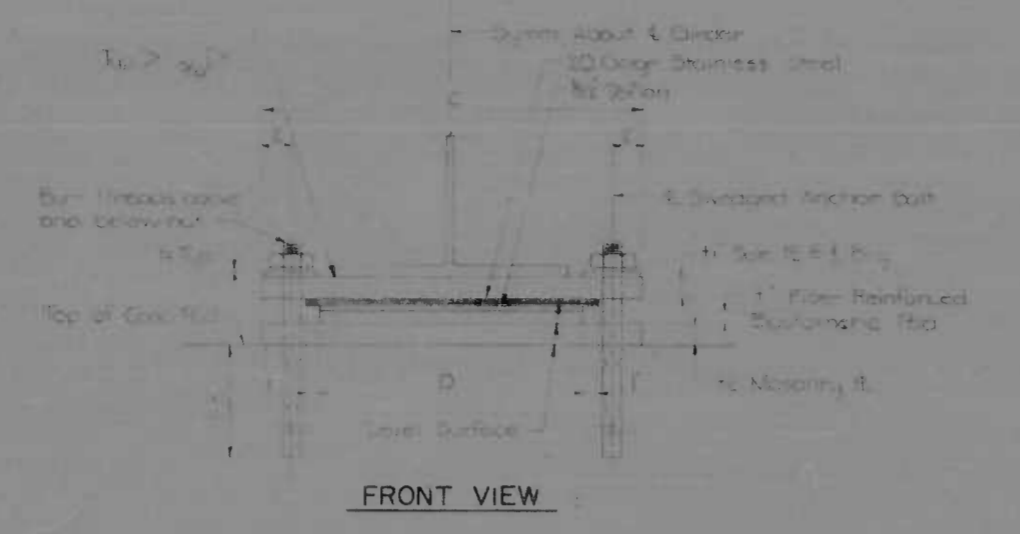
SECTION A-A
Scale: 1" = 10'-0"

DESCRIPTION	STATION	SPAN 1										SPAN 2										SPAN 3										C BRG N ABUT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		1+00.00	1+05.00	1+10.00	1+15.00	1+20.00	1+25.00	1+30.00	1+35.00	1+40.00	1+45.00	1+50.00	1+55.00	1+60.00	1+65.00	1+70.00	1+75.00	1+80.00	1+85.00	1+90.00	1+95.00	2+00.00	2+05.00	2+10.00	2+15.00	2+20.00	2+25.00	2+30.00	2+35.00	2+40.00	2+45.00		2+50.00	2+55.00	2+60.00	2+65.00	2+70.00	2+75.00	2+80.00	2+85.00	2+90.00	2+95.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1 WEST KEY LINE	55.50	56.04	56.58	57.12	57.66	58.20	58.74	59.28	59.82	60.36	60.90	61.44	61.98	62.52	63.06	63.60	64.14	64.68	65.22	65.76	66.30	66.84	67.38	67.92	68.46	69.00	69.54	70.08	70.62	71.16	71.70	72.24	72.78	73.32	73.86	74.40	74.94	75.48	76.02	76.56	77.10	77.64	78.18	78.72	79.26	79.80	80.34	80.88	81.42	81.96	82.50	83.04	83.58	84.12	84.66	85.20	85.74	86.28	86.82	87.36	87.90	88.44	88.98	89.52	90.06	90.60	91.14	91.68	92.22	92.76	93.30	93.84	94.38	94.92	95.46	96.00	96.54	97.08	97.62	98.16	98.70	99.24	99.78	100.32	100.86	101.40	101.94	102.48	103.02	103.56	104.10	104.64	105.18	105.72	106.26	106.80	107.34	107.88	108.42	108.96	109.50	110.04	110.58	111.12	111.66	112.20	112.74	113.28	113.82	114.36	114.90	115.44	115.98	116.52	117.06	117.60	118.14	118.68	119.22	119.76	120.30	120.84	121.38	121.92	122.46	123.00	123.54	124.08	124.62	125.16	125.70	126.24	126.78	127.32	127.86	128.40	128.94	129.48	130.02	130.56	131.10	131.64	132.18	132.72	133.26	133.80	134.34	134.88	135.42	135.96	136.50	137.04	137.58	138.12	138.66	139.20	139.74	140.28	140.82	141.36	141.90	142.44	142.98	143.52	144.06	144.60	145.14	145.68	146.22	146.76	147.30	147.84	148.38	148.92	149.46	150.00	150.54	151.08	151.62	152.16	152.70	153.24	153.78	154.32	154.86	155.40	155.94	156.48	157.02	157.56	158.10	158.64	159.18	159.72	160.26	160.80	161.34	161.88	162.42	162.96	163.50	164.04	164.58	165.12	165.66	166.20	166.74	167.28	167.82	168.36	168.90	169.44	169.98	170.52	171.06	171.60	172.14	172.68	173.22	173.76	174.30	174.84	175.38	175.92	176.46	177.00	177.54	178.08	178.62	179.16	179.70	180.24	180.78	181.32	181.86	182.40	182.94	183.48	184.02	184.56	185.10	185.64	186.18	186.72	187.26	187.80	188.34	188.88	189.42	189.96	190.50	191.04	191.58	192.12	192.66	193.20	193.74	194.28	194.82	195.36	195.90	196.44	196.98	197.52	198.06	198.60	199.14	199.68	200.22	200.76	201.30	201.84	202.38	202.92	203.46	204.00	204.54	205.08	205.62	206.16	206.70	207.24	207.78	208.32	208.86	209.40	209.94	210.48	211.02	211.56	212.10	212.64	213.18	213.72	214.26	214.80	215.34	215.88	216.42	216.96	217.50	218.04	218.58	219.12	219.66	220.20	220.74	221.28	221.82	222.36	222.90	223.44	223.98	224.52	225.06	225.60	226.14	226.68	227.22	227.76	228.30	228.84	229.38	229.92	230.46	231.00	231.54	232.08	232.62	233.16	233.70	234.24	234.78	235.32	235.86	236.40	236.94	237.48	238.02	238.56	239.10	239.64	240.18	240.72	241.26	241.80	242.34	242.88	243.42	243.96	244.50	245.04	245.58	246.12	246.66	247.20	247.74	248.28	248.82	249.36	249.90	250.44	250.98	251.52	252.06	252.60	253.14	253.68	254.22	254.76	255.30	255.84	256.38	256.92	257.46	258.00	258.54	259.08	259.62	260.16	260.70	261.24	261.78	262.32	262.86	263.40	263.94	264.48	265.02	265.56	266.10	266.64	267.18	267.72	268.26	268.80	269.34	269.88	270.42	270.96	271.50	272.04	272.58	273.12	273.66	274.20	274.74	275.28	275.82	276.36	276.90	277.44	277.98	278.52	279.06	279.60	280.14	280.68	281.22	281.76	282.30	282.84	283.38	283.92	284.46	285.00	285.54	286.08	286.62	287.16	287.70	288.24	288.78	289.32	289.86	290.40	290.94	291.48	292.02	292.56	293.10	293.64	294.18	294.72	295.26	295.80	296.34	296.88	297.42	297.96	298.50	299.04	299.58	300.12	300.66	301.20	301.74	302.28	302.82	303.36	303.90	304.44	304.98	305.52	306.06	306.60	307.14	307.68	308.22	308.76	309.30	309.84	310.38	310.92	311.46	312.00	312.54	313.08	313.62	314.16	314.70	315.24	315.78	316.32	316.86	317.40	317.94	318.48	319.02	319.56	320.10	320.64	321.18	321.72	322.26	322.80	323.34	323.88	324.42	324.96	325.50	326.04	326.58	327.12	327.66	328.20	328.74	329.28	329.82	330.36	330.90	331.44	331.98	332.52	333.06	333.60	334.14	334.68	335.22	335.76	336.30	336.84	337.38	337.92	338.46	339.00	339.54	340.08	340.62	341.16	341.70	342.24	342.78	343.32	343.86	344.40	344.94	345.48	346.02	346.56	347.10	347.64	348.18	348.72	349.26	349.80	350.34	350.88	351.42	351.96	352.50	353.04	353.58	354.12	354.66	355.20	355.74	356.28	356.82	357.36	357.90	358.44	358.98	359.52	360.06	360.60	361.14	361.68	362.22	362.76	363.30	363.84	364.38	364.92	365.46	366.00	366.54	367.08	367.62	368.16	368.70	369.24	369.78	370.32	370.86	371.40	371.94	372.48	373.02	373.56	374.10	374.64	375.18	375.72	376.26	376.80	377.34	377.88	378.42	378.96	379.50	380.04	380.58	381.12	381.66	382.20	382.74	383.28	383.82	384.36	384.90	385.44	385.98	386.52	387.06	387.60	388.14	388.68	389.22	389.76	390.30	390.84	391.38	391.92	392.46	393.00	393.54	394.08	394.62	395.16	395.70	396.24	396.78	397.32	397.86	398.40	398.94	399.48	400.02	400.56	401.10	401.64	402.18	402.72	403.26	403.80	404.34	404.88	405.42	405.96	406.50	407.04	407.58	408.12	408.66	409.20	409.74	410.28	410.82	411.36	411.90	412.44	412.98	413.52	414.06	414.60	415.14	415.68	416.22	416.76	417.30	417.84	418.38	418.92	419.46	420.00	420.54	421.08	421.62	422.16	422.70	423.24	423.78	424.32	424.86	425.40	425.94	426.48	427.02	427.56	428.10	428.64	429.18	429.72	430.26	430.80	431.34	431.88	432.42	432.96	433.50	434.04	434.58	435.12	435.66	436.20	436.74	437.28	437.82	438.36	438.90	439.44	439.98	440.52	441.06	441.60	442.14	442.68	443.22	443.76	444.30	444.84	445.38	445.92	446.46	447.00	447.54	448.08	448.62	449.16	449.70	450.24	450.78	451.32	451.86	452.40	452.94	453.48	454.02	454.56	455.10	455.64	456.18	456.72	457.26	457.80	458.34	458.88	459.42	459.96	460.50	461.04	461.58	462.12	462.66	463.20	463.74	464.28	464.82	465.36	465.90	466.44	466.98	467.52	468.06	468.60	469.14	469.68	470.22	470.76	471.30	471.84	472.38	472.92	473.46	474.00	474.54	475.08	475.62	476.16	476.70	477.24	477.78	478.32	478.86	479.40	479.94	480.48	481.02	481.56	482.10	482.64	483.18	483.72	484.26	484.80	485.34	485.88	486.42	486.96	487.50	488.04	488.58	489.12	489.66	490.20	490.74	491.28	491.82	492.36	492.90	493.44	493.98	494.52	495.06	495.60	496.14	496.68	497.22	497.76	498.30	498.84	499.38	499.92	500.46	501.00	501.54	502.08	502.62	503.16	503.70	504.24	504.78	505.32	505.86	506.40	506.94	507.48	508.02	508.56	509.10	509.64	510.18	510.72	511.26	511.80	512.34	512.88	513.42	513.96	514.50	515.04	515.58	516.12	516.66	517.20	517.74	518.28	518.82	519.36	519.90	520.44	520.98	521.52	522.06	522.60	523.14	523.68	524.22	524.76	525.30	525.84	526.38	526.92	527.46	528.00	528.54	529.08	529.62	530.16	530.70	531.24	531.78	532.32	532.86	533.40	533.94	534.48	535.02	535.56	536.10	536.64	537.18	537.72	538.26	538.80	539.34	539.88	540.42	540.96	541.50	542.04	542.58	543.12	543.66	544.20	544.74	545.28	545.82	546.36	546.90	547.44	547.98	548.52	549.06	549.60	550.14	550.68	551.22	551.76	552.30	552.84	553.38	553.92	554.46	555.00	555.54	556.08	556.62	557.16	557.70	558.24	558.78	559.32	559.86	560.40	560.94	561.48	562.02	562.56	563.10	563.64	564.18	564.72	565.26	565.80	566.34	566.88	567.42	567.96	568.50	569.04	569.58	570.12	570.66	571.20	571.74	572.28	572.82	573.36	573.90	574.44	574.98	575.52	576.06	576.60	577.14	577.68	578.22	578.76	579.30	579.84	580.38	580.92	581.46	582.00	582.54	583.08	583.62	584.16	584.70	585.24	585.78	586.32	586.86	587.40	587.94	588.48	589.02	589.56	590.10	590.64	591.18	591.72	592.26	592.80	593.34	593.88	594.42	594.96	595.50	596.04	596.58	597.12	597.66	598.20	598.74	599.28	599.82	600.36	600.90	601.44	601.98	602.52	603.06	603.60	604.14	604.68	605.22	605

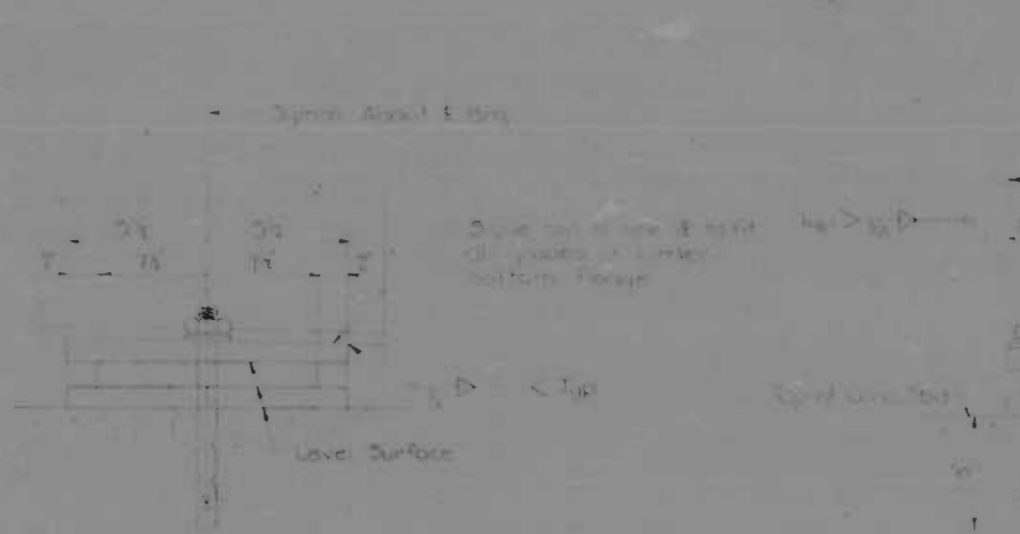
PRO. ROAD DIST. NO.	STATION	PRO. A.E. PROJ. NO.	SHEET NO.	TOTAL SHEETS
2		MD 1-95-4(36)36	S-8	192 S-55



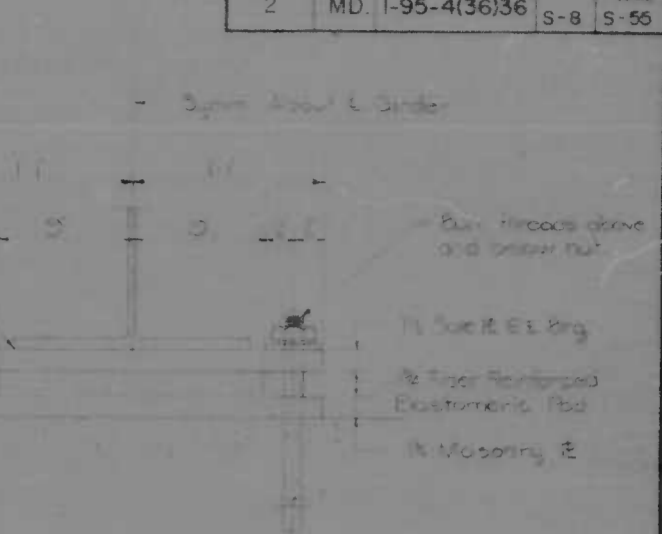
ELEVATION



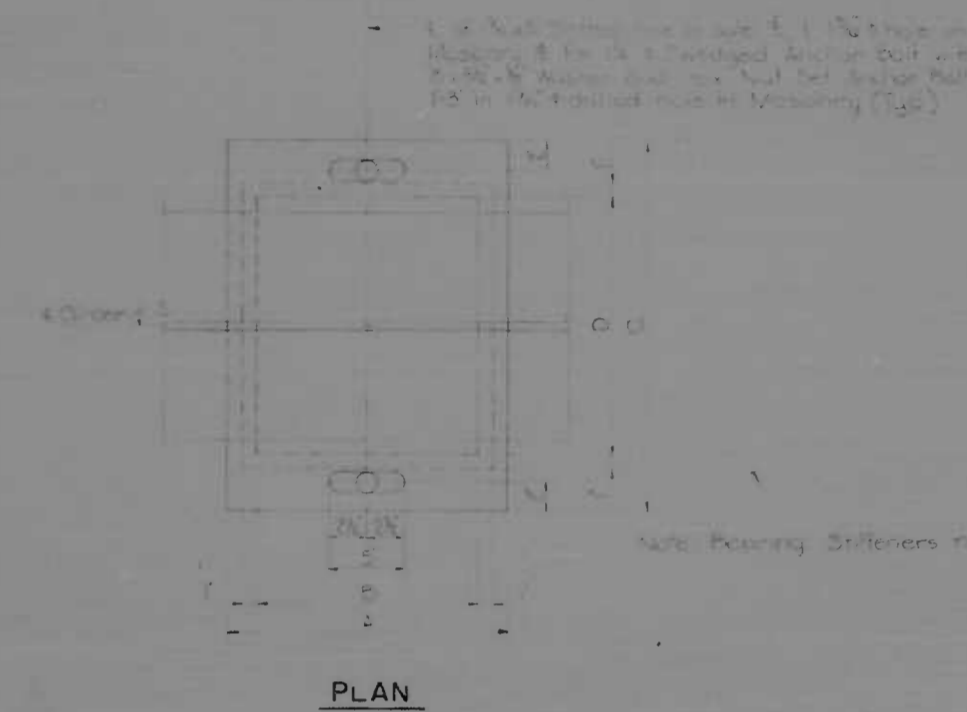
FRONT VIEW



ELEVATION



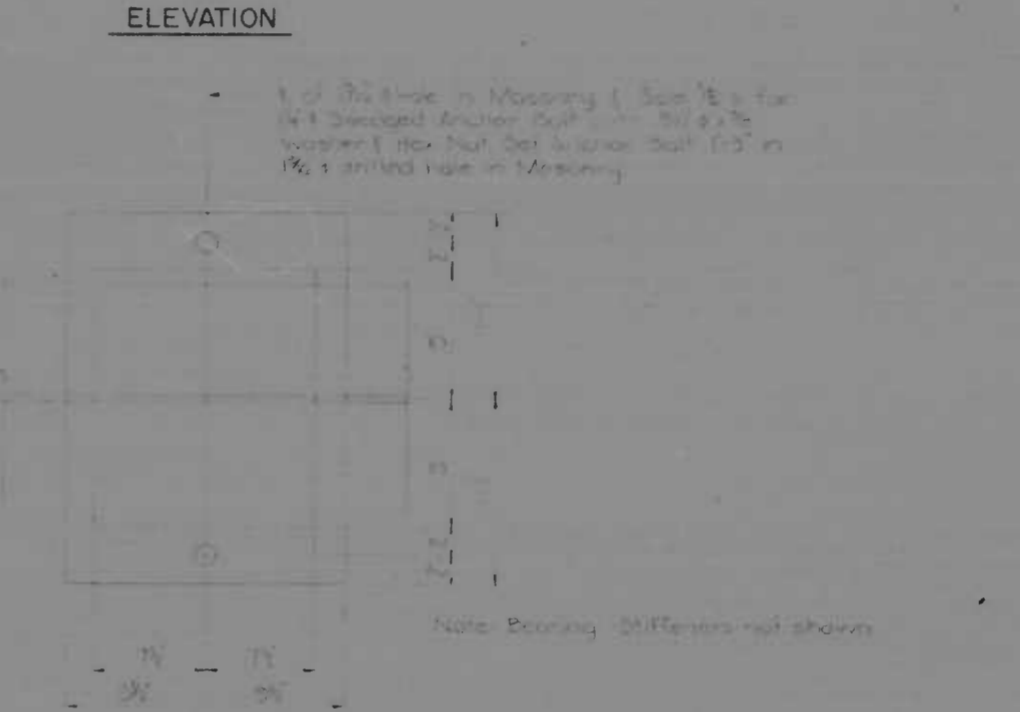
FRONT VIEW



PLAN

TYPE	DIMENSION											
	A	B	C	D	E	F	G	H	I	J	K	L
E-100	2	10	10	10	10	10	10	10	10	10	10	10
E-250	2	5	5	5	5	5	5	5	5	5	5	5

EXPANSION BEARING — TYPE E-100 & E-250
Not to Scale



PLAN

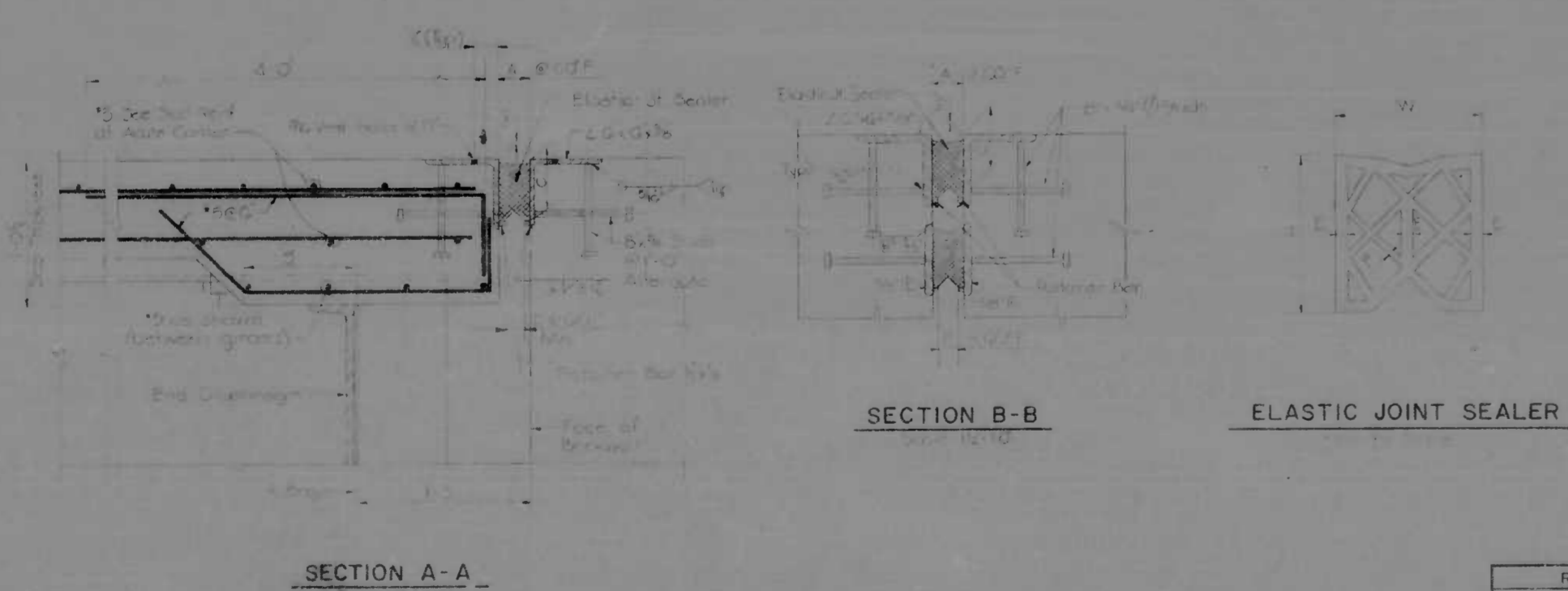
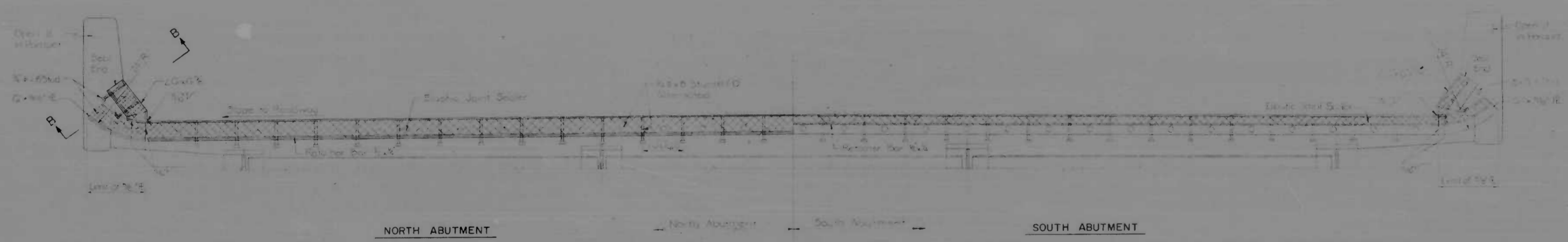
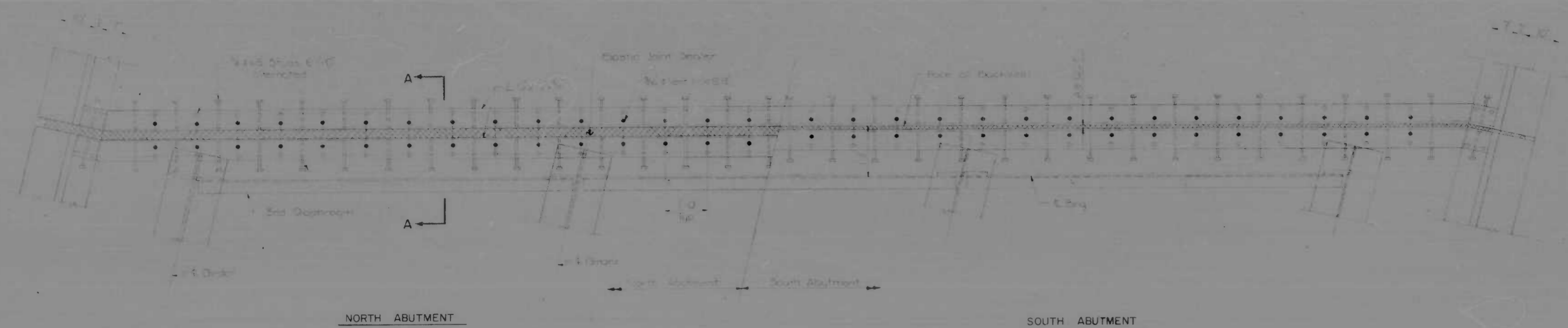
FIX BEARING — TYPE F-250
Not to Scale

- Notes:
1. All steel used in bearing shall conform to ASTM designation A-588.
 2. All Anchor Bolts, Hex nuts & washers shall be hot dipped galvanized.
 3. Epoxy Resin shall be applied on full contact area between the following: Fiber reinforced epoxy resin and Masonry Plate, Fiber reinforced epoxy resin and Teflon Plate, Sole Plate and Stainless Steel Plate, Masonry B and Concrete Pad.
 4. Epoxy Resin Patching Compound shall be used for temperature between SOP and IOB.
 5. Bearing Type E-100 shall be used at segment's.
 6. Bearing Type E-250 shall be used at Pier II.
 7. Bearing Type F-250 shall be used at Pier II.

DATE: 10/1/95
DRAWN BY: M.S.F.
CHECKED BY: F.F.M.

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, CHALDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	1-95 WINDLASS-MORAVIA INTERCHANGE RAMP A OVER B BORR BEARING DETAILS	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO. 1-95-4(36)36 S.R.C. NO. BC 246-33-015 BALTO. CITY NO. 1995
		DATE: 10/1/95	SHEET NO. (92) S-8 S-55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	S-9	1921 S-55



LOCATION	SEALER SIZE				DIMENSIONS		
	W	H	E	F	A	B	C
North Abut	24	12	12	12	12	12	12
South Abut	24	12	12	12	12	12	12

Notes:
 All steel sections, angles and reinforcement bars in Expansion Joints shall be ASTM Designation A36.
 Other configurations for the expansion joint may be used if approved by the Engineer.

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS & STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY	
	KINDLE, BENDER, STONE & ASSOC., INC. AND MATT, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	1-95 WINDLASS MORAVIA INTERCHANGE RAMP "A" OVER B & O R.R. EXPANSION JOINT DETAILS	DRAWN BY: M.S.F. TRACED BY: M.S.F. F.A.P. NO.: I-95-4(36)36 S.R.C. NO.: BC 246-33-815 BALTO. CITY NO.: 1995
		SCALE: As shown	DATE: 1995
			DES. BY: M.S.C. CHK. BY: F.F.M. SHEET NO.: 1921 S-9 of S-55

SP 22

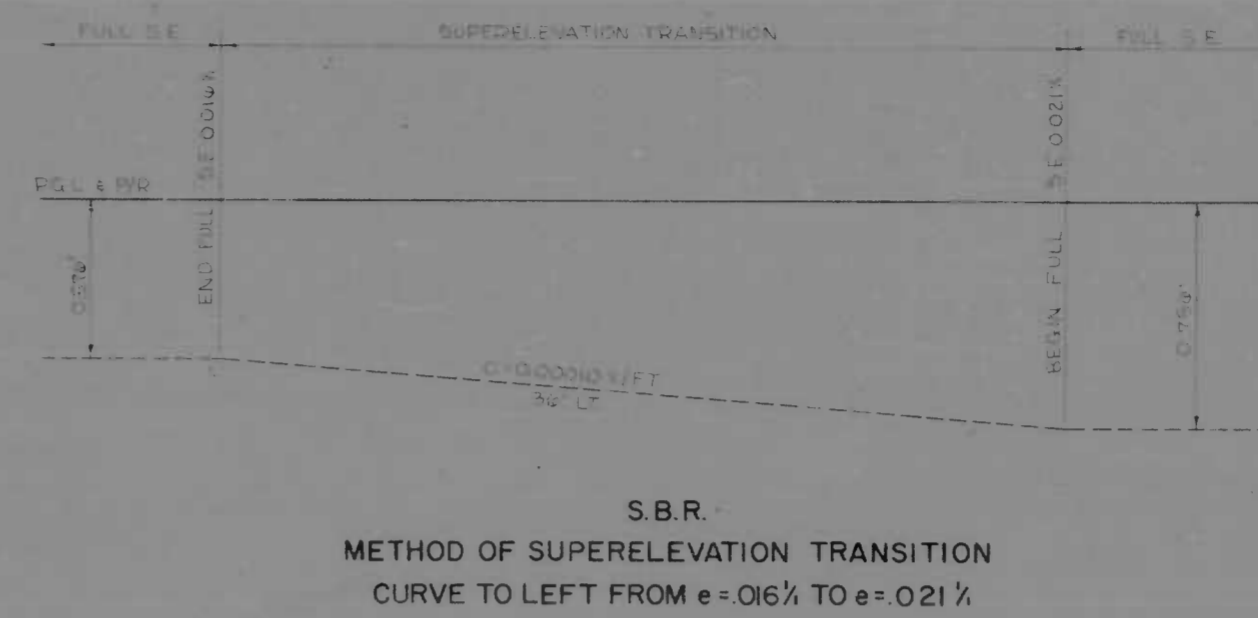
SUPERELEVATION DATA

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	(92)	T-10 T-15

S.B.R.					
FULL SUPERELEVATION = 0.016%					
STATION	36' LT	24' LT	12' LT	P.G.L. & P/R	REMARKS
412+00.00	56.80	56.77	57.18	57.38	BEGIN TRANSITION
413+00.00	56.73	56.73	57.13	57.34	
413+25.00	56.51	56.75	56.78	57.21	C+0.0010%/FT
413+40.00	56.37	56.92	56.88	57.13	END TRANSITION

FULL SUPERELEVATION = 0.021%

RAMP E					
FULL SUPERELEVATION = 0.060%					
STATION	P.G.L. & P/R	15' RT			REMARKS
514+01.72	80.78	81.08			BEGIN TRANSITION
+25	80.73	81.41			
+50	80.18	81.03			C+0.0035%/FT
+75	79.74	80.94			
+78.84	79.64	80.24			P.T.
515+00.00	79.11	79.00			
+25	78.40	78.79			C+0.0035%/FT
+50	77.80	77.83			
+75	76.78	76.82			LEVEL SECTION
+73.15	76.03	76.03			
516+00.00	75.79	75.73			
+25	74.70	74.87			C+0.0027%/FT
+50	73.57	73.34			
+50.41	73.45	73.21			END TRANSITION

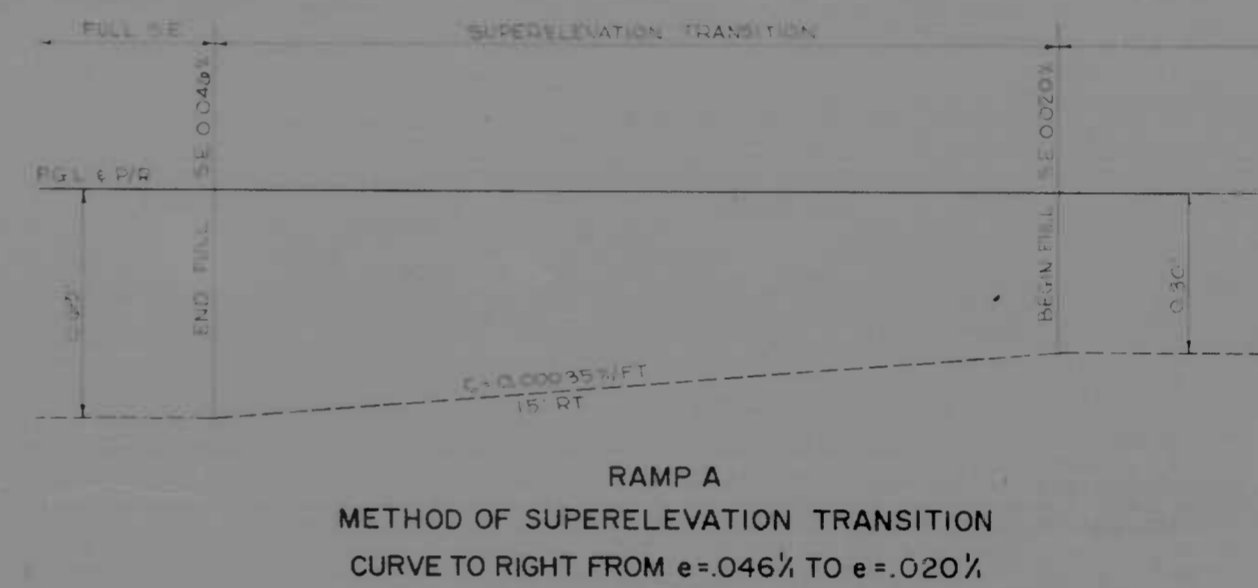


RAMP A					
FULL SUPERELEVATION = 0.046%					
STATION	DIST. RT. EDGE TO RIDGE	RIDGE ELEV.	CORRECTION	BY EDGE PAVE. ELEV.	REMARKS
15+29.42	12.30	73.22	0.57	72.65	
+50	12.71	73.29	0.57	72.70	
+75	13.27	73.30	0.51	72.78	
16+00.00	13.77	73.31	0.43	72.88	
+25	14.27	73.24	0.40	72.84	
+50	14.77	73.03	0.28	72.75	
+61.52	15.00	72.88	0.20	72.68	

FULL SUPERELEVATION = 0.046%					
STATION	P.G.L. & P/R	15' RT			REMARKS
20+29.80	64.91	64.22			BEGIN TRANSITION
+50	64.31	63.73			
+59.52	64.02	63.49			P.C.
+75	63.54	63.09			
21+00.00	62.75	62.43			C+0.0035%/FT
+04.09	62.92	62.92			END TRANSITION

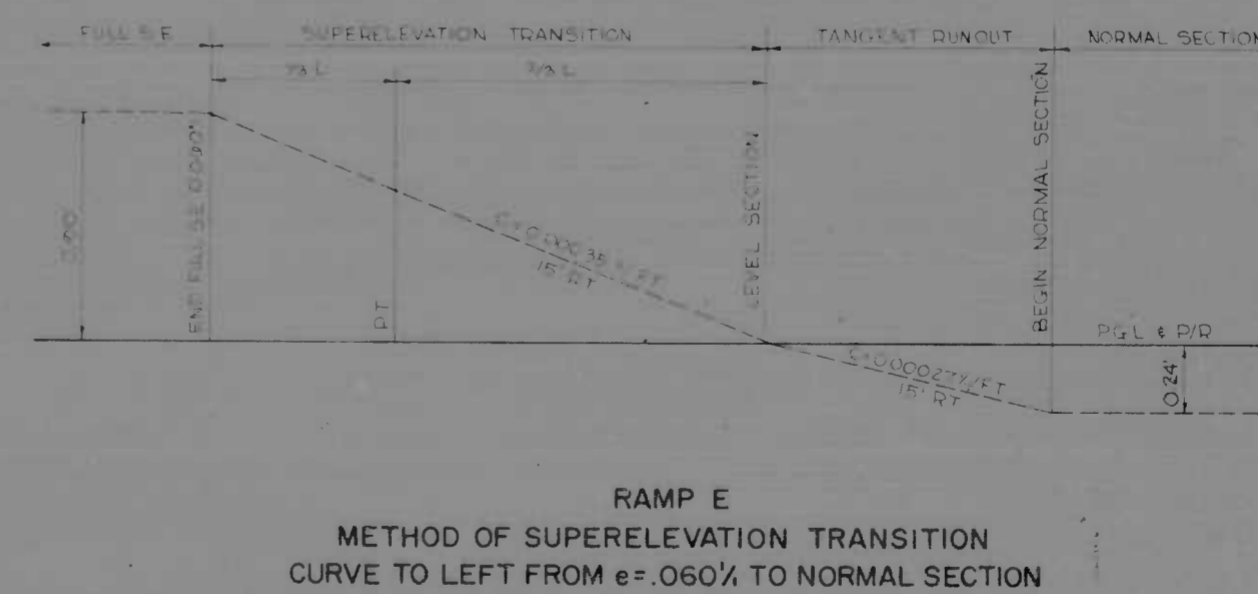
FULL SUPERELEVATION = 0.020%

NORMAL SECTION					
STATION	P.G.L. & P/R	OFFSET TO RIDGE	RIDGE ELEV.	BY EDGE PAVE. ELEV.	REMARKS
519+84.81	59.94	13.33	59.40	58.88	
520+00.00	59.30	14.81	59.06	58.56	
+25	58.81	14.50	58.58	58.08	
+50	58.38	14.15	58.13	57.69	
+75	58.03	13.87	57.81	57.35	
521+00.00	57.75	13.59	57.53	57.07	
+25	57.55	13.23	57.34	56.87	
+50	57.42	12.84	57.21	56.74	
+75	57.37	12.42	57.17	56.70	BEGIN TRANSITION
+84.18	57.37	12.31	57.17	56.70	
522+00.00	57.30	12.31	57.17	56.70	C+0.0010%/FT
+24.18	57.48	12.01	57.29	56.91	END TRANSITION
+24.87	57.48	12.00	57.29	56.91	END OF TAPER



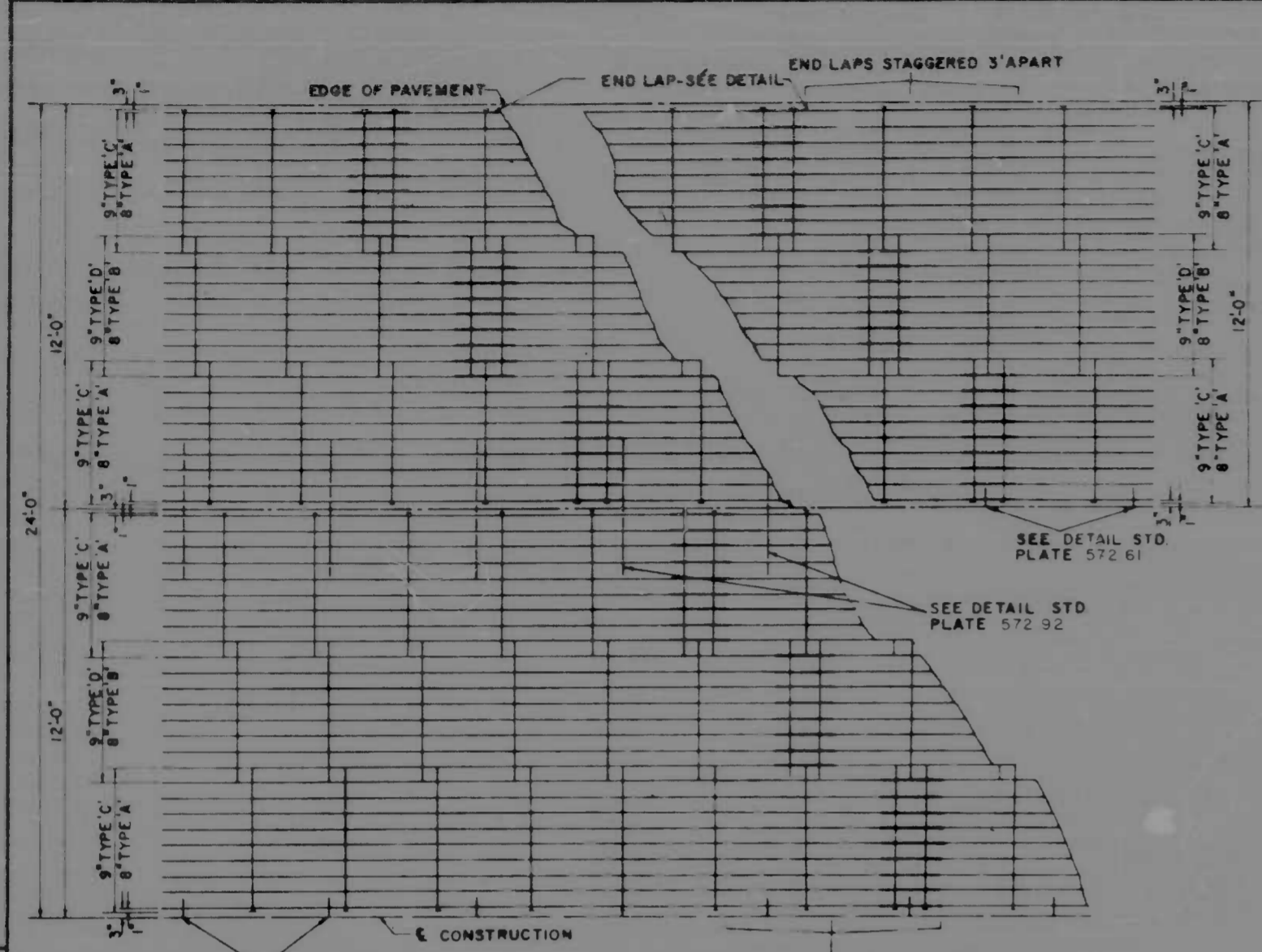
RAMP C					
FULL SUPERELEVATION = 0.046%					
STATION	P.G.L. & P/R	RIDGE ELEV.			REMARKS
204+71.43	74.07	73.27			BEGIN TRANSITION
205+00.00	74.11	73.11			
+25	74.11	73.24			
+27.43	74.11	73.26			P.T.
+50	74.06	73.32			C+0.0020%/FT
+75	73.87	73.36			
206+00.00	73.82	73.31			
+25	73.64	73.24			
+27.43	73.61	73.23			END TRANSITION

NORMAL SECTION



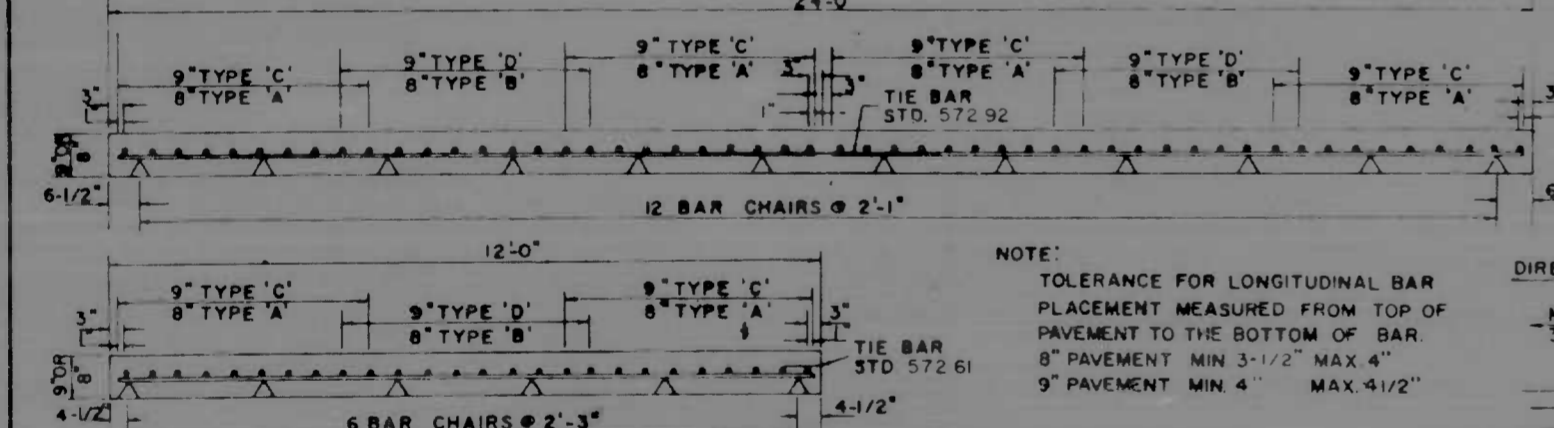
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	ENDERILL, BENDER, STONE & ASSOC., INC. AND NATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY JWS TRACED BY JWS F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815 BALTO. CITY NO. 1995
		SCALE: No Scale	DATE: _____ DES. BY TEL CHK BY J.L.C. SHEET NO. (92) T-10 OF T-15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	T-11	(92)



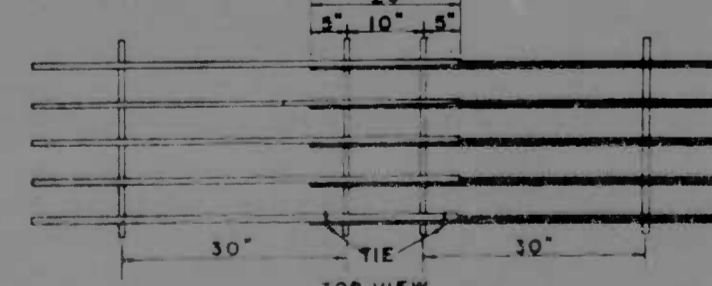
PLAN - BAR MATS

SCALE: 3/8"=1'-0"
LENGTH OPTIONAL 35' MINIMUM



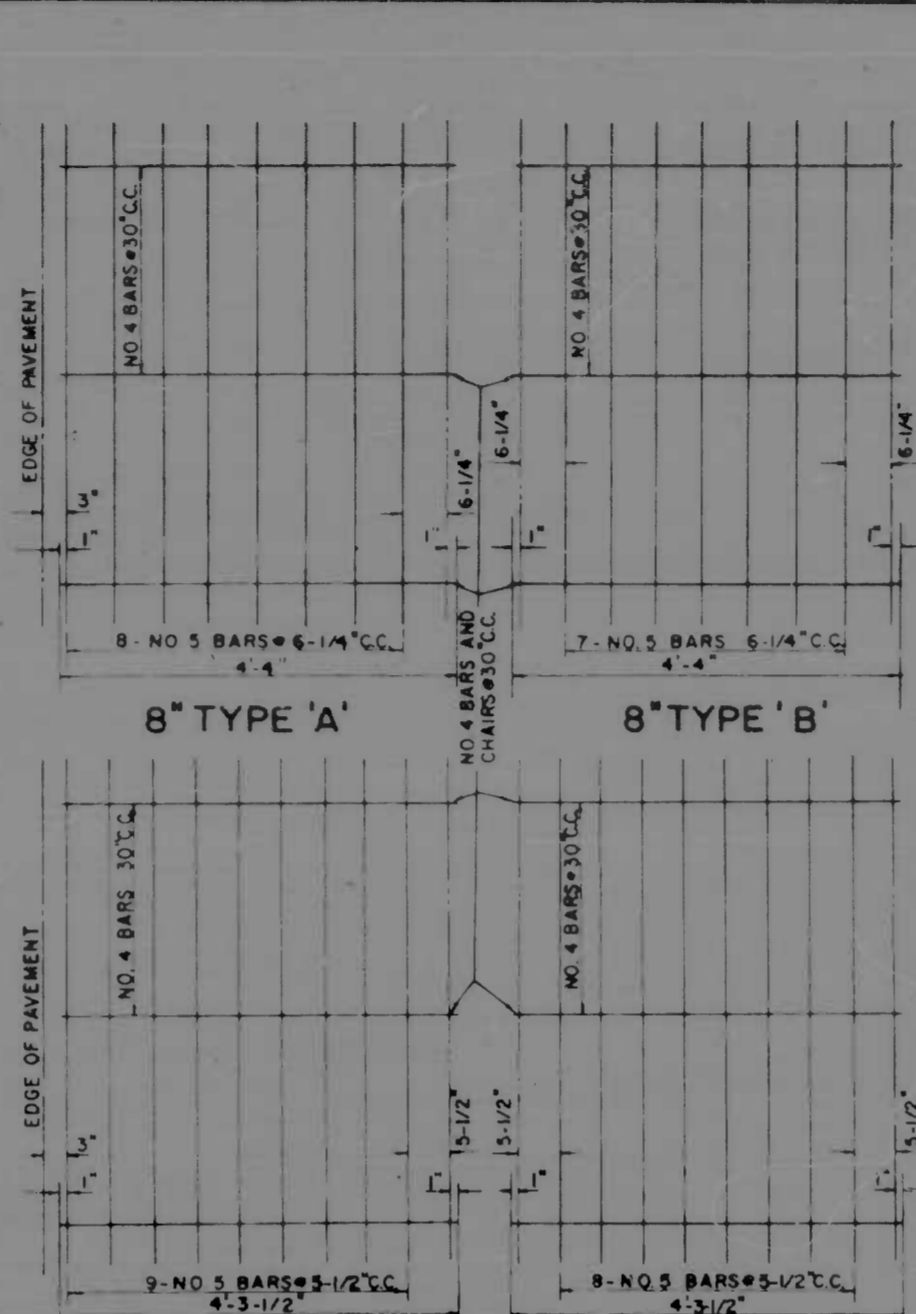
TRANSVERSE SECTION

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



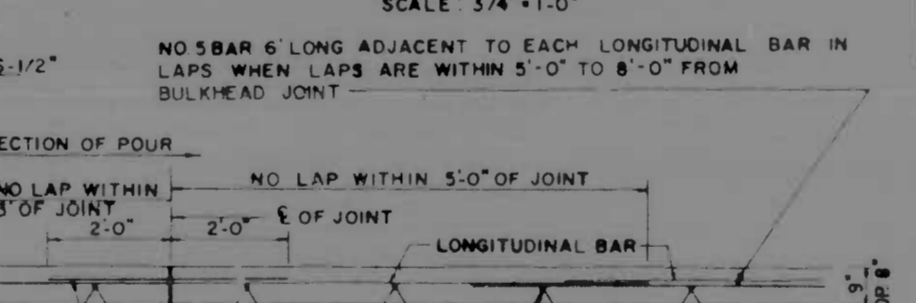
END LAP DETAIL

SCALE: 3/4"=1'-0"



BAR MAT DETAILS

SCALE: 3/4"=1'-0"



BULKHEAD JOINT AND LAP DETAIL

REINFORCEMENT ON CHAIRS

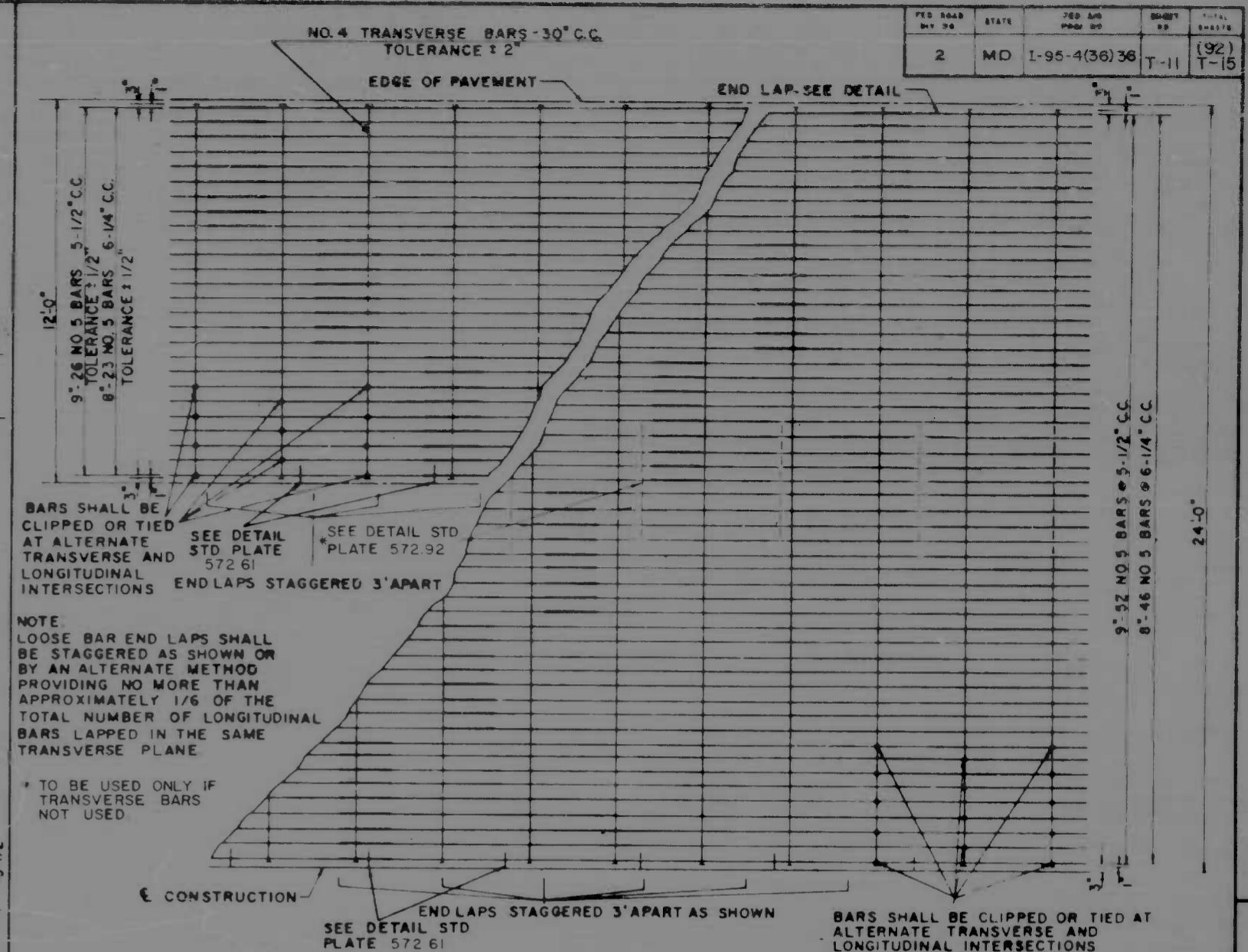
SCALE: 1/2"=1'-0"

EDGE LAP DETAIL - BAR MATS

NOT TO SCALE

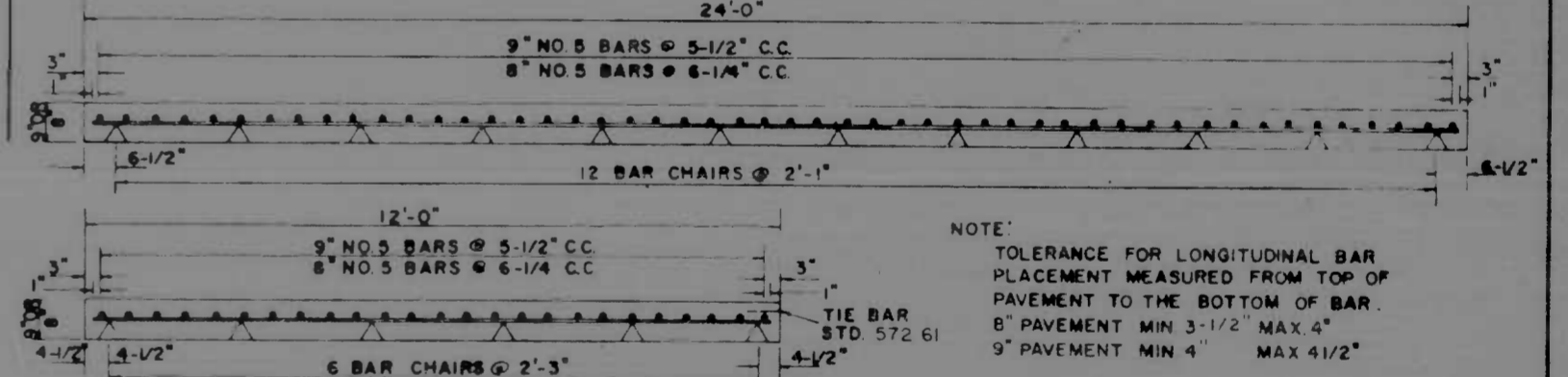
CONTINUOUSLY REINFORCED CONCRETE PAVT

BAR STEEL REINFORCEMENT



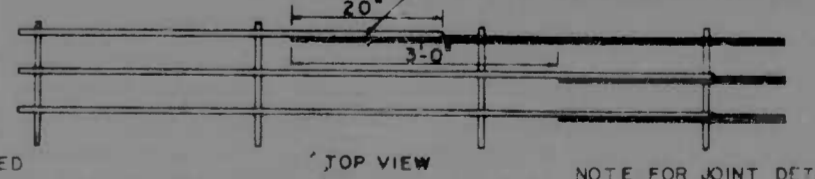
PLAN - LOOSE BARS

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



TRANSVERSE SECTION

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

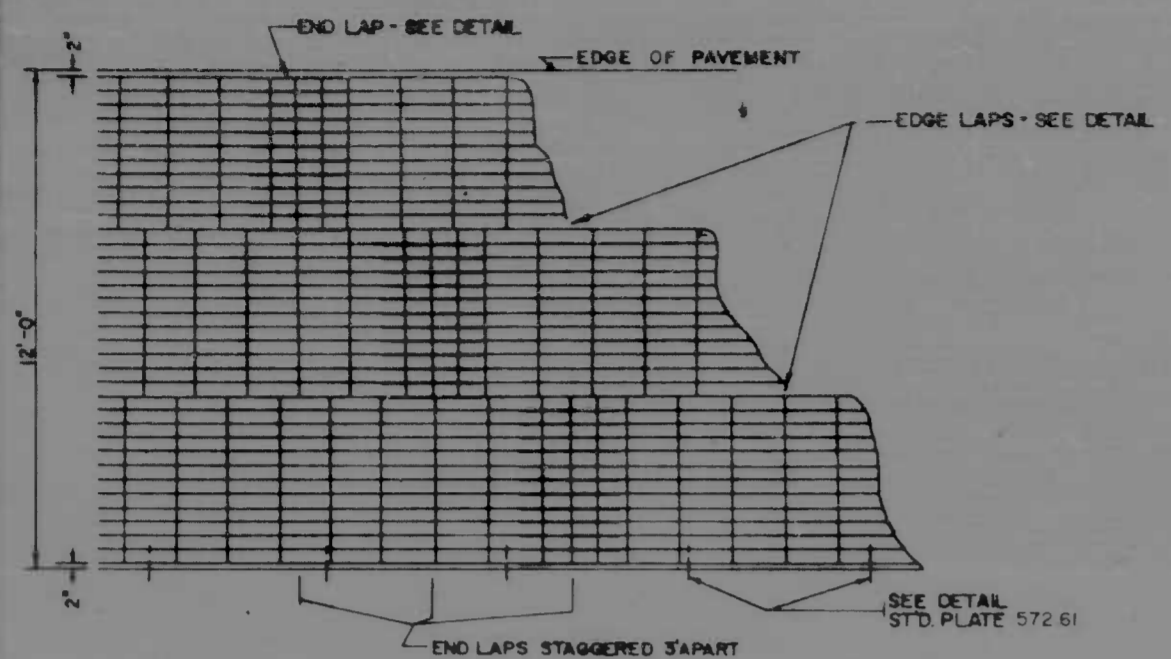


END LAP DETAIL

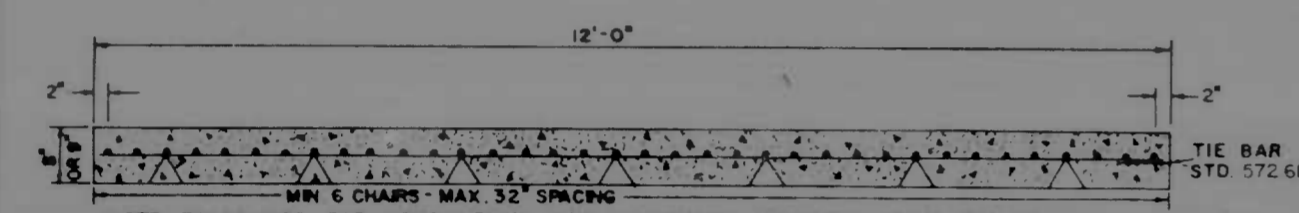
SCALE: 1/2"=1'-0"

CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS		STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE	
INTERSTATE ROUTE 95 FROM NORTH OF LEONARD ROAD TO NORTH OF BJO RAILROAD			
SCALE AS SHOWN	DATE	DRAWN BY SRC	DES BY SRC
		TRACED BY SRC	CHK BY SRC
		EAP NO I-95-4(36)36	SHEET NO (92)
		S.R.C. NO BC 246-33-815	T-11 OF 13
		BALTO CITY NO 1995	

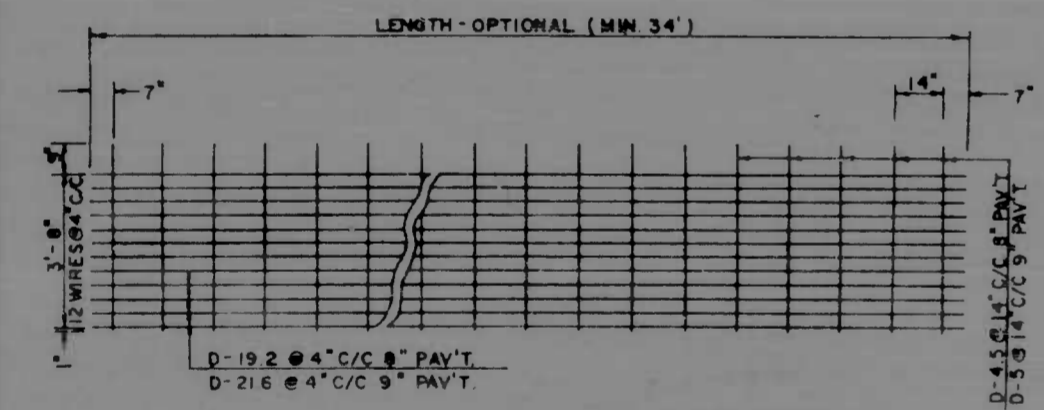
FED. ROAD DIST. NO.	STATE	F.A.P. NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-95-4(36)36	T-12	(92)	T-15



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

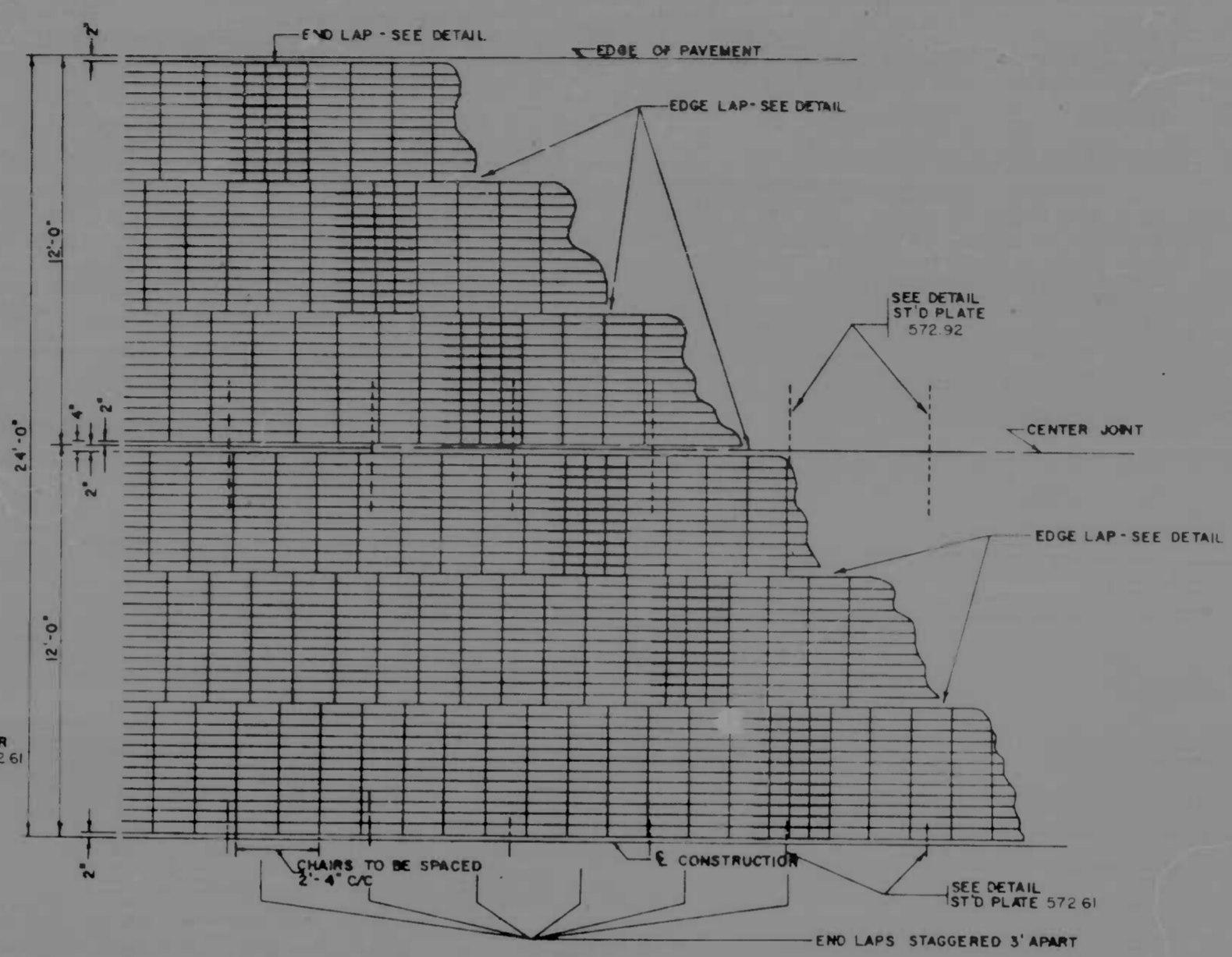


TRANSVERSE SECTION
SCALE 3/4" = 1'-0"

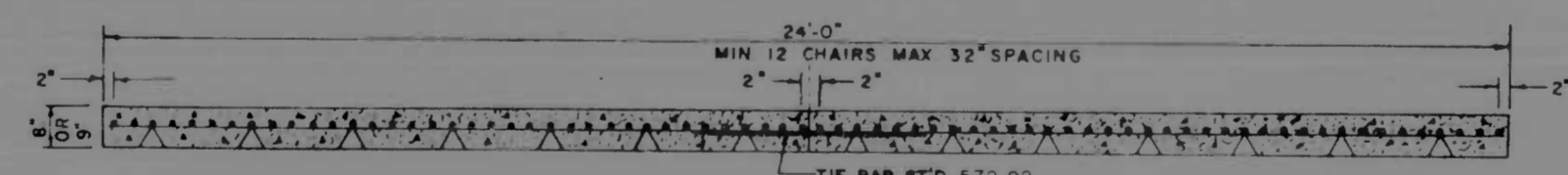


TYPICAL FABRIC SHEET
SCALE 3/8" = 1'-0"

NOTE: WELDED DEFORMED STEEL WIRE FABRIC FOR LONGITUDINAL AND TRANSVERSE WIRES SHALL MEET THE REQUIREMENTS OF A.S.T.M. DESIGNATION A-497 FOR WELDED DEFORMED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT.



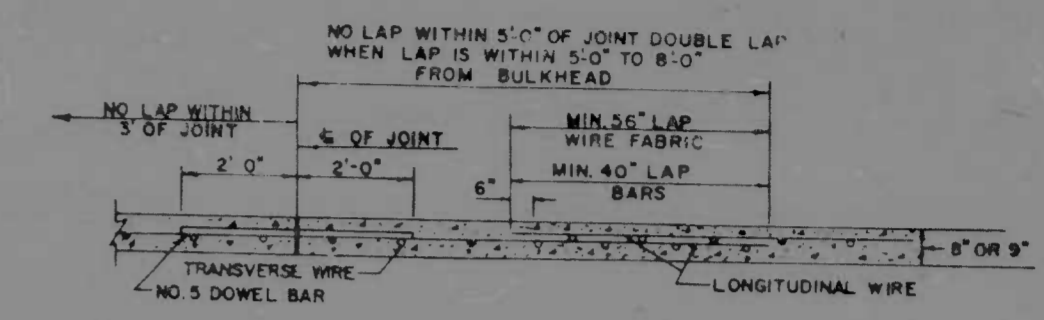
PLAN
SCALE 3/8" = 1'-0"



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

NOTE: TOLERANCE FOR LONGITUDINAL BAR PLACEMENT MEASURED FROM TOP OF PAVEMENT TO THE BOTTOM OF BAR. 8" PAVEMENT MIN 3-1/2" MAX 4" 9" PAVEMENT MIN 4" MAX 4 1/2"

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

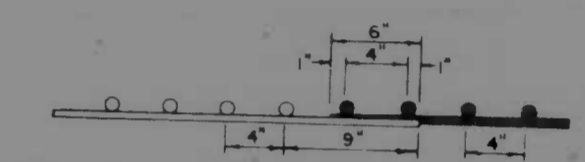


BULKHEAD JOINT AND LAP DETAIL
REINFORCEMENT BY MECHANICAL MEANS
SCALE 1/2" = 1'-0"

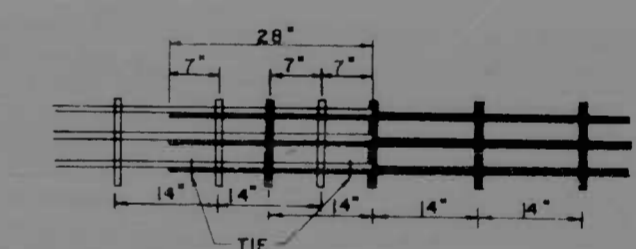
NO LAP WITHIN 3'-0" OF JOINT DOUBLE LAP WHEN LAP IS WITHIN 5'-0" TO 8'-0" FROM BULKHEAD

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. OF



EDGE LAP DETAIL
SCALE 1/2" = 1'-0"



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

NOTE: MATS TO BE SECURELY FASTENED TO PREVENT SEPARATION DURING CONCRETE PLACEMENT, MINIMUM 6 TIES EACH MAT.

NOTE: FOR JOINT DETAILS SEE SHEET NO T-13 OF T-15

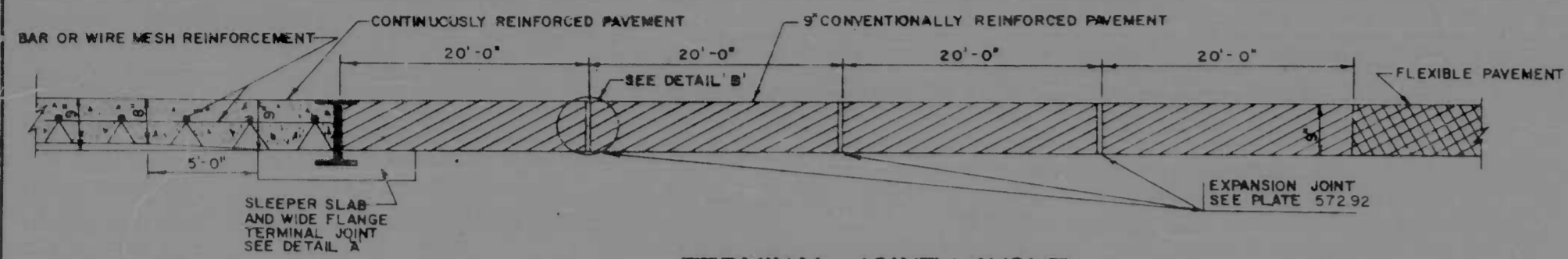
NOTE: THIS PLAN SHEET IS A STANDARD SHEET AND ONLY THOSE PORTIONS WHICH PERTAIN TO LOOSE BARS SHALL BE USED FOR THIS CONTRACT.

THE CONTRACTOR MUST SUBMIT THE METHOD FOR SUPPORTING THE BARS TO BE APPROVED BY THE ENGINEER BEFORE ANY WORK IS PERFORMED UNDER THIS ITEM.

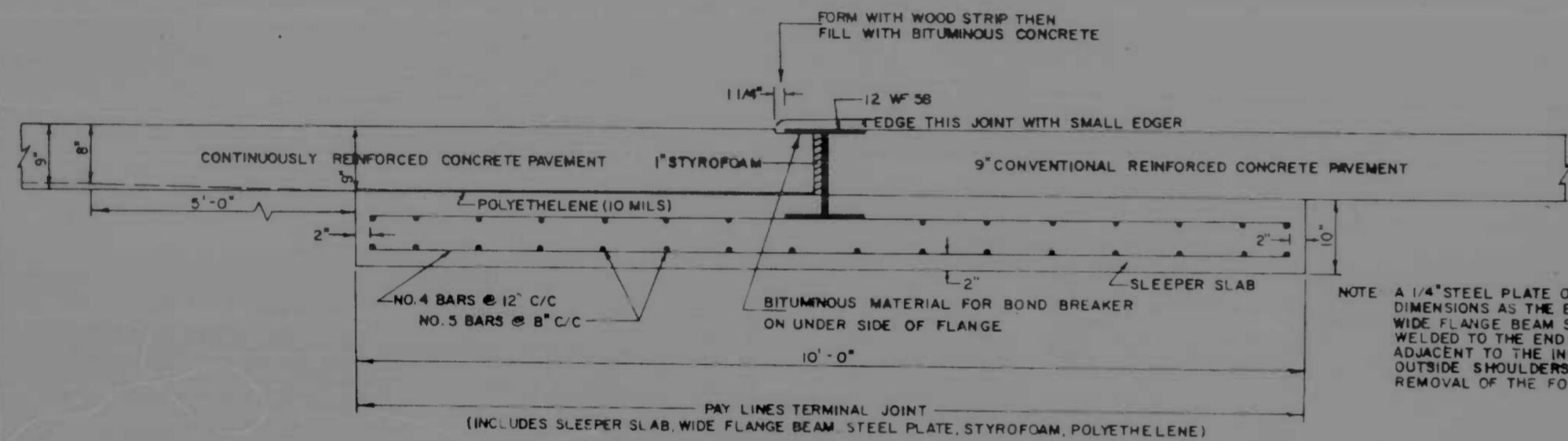
LONGITUDINAL TIE BARS WILL BE REQUIRED.

CONTINUOUSLY REINFORCED CONCRETE PAVEMENT
WELDED DEFORMED STEEL WIRE FABRIC REINFORCEMENT

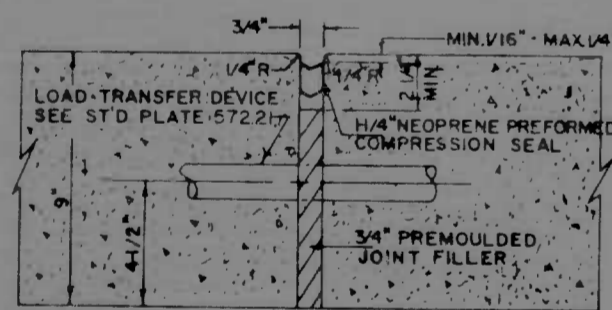
CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE
INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY S.R.C. DES. BY S.R.C. TRACED BY S.R.C. CHK BY S.R.C.
SCALE AS SHOWN DATE	F.A.P. NO. 1-95-4(36)36 SHEET NO. (92) S.R.C. NO. BC 246.33-915 T-12 OF T-15 BALTO. CITY NO. 1995



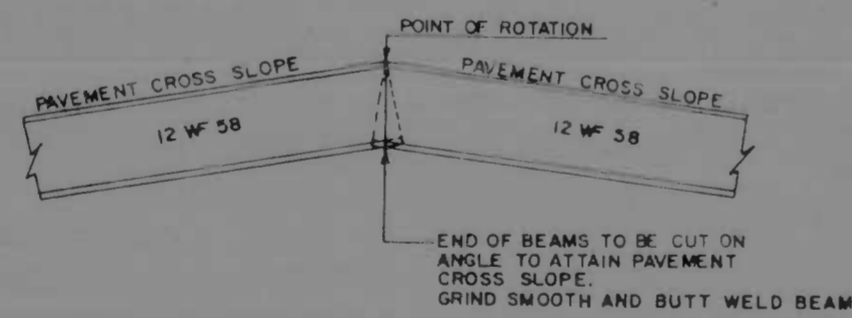
TERMINAL JOINT LAYOUT
NOT TO SCALE



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



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

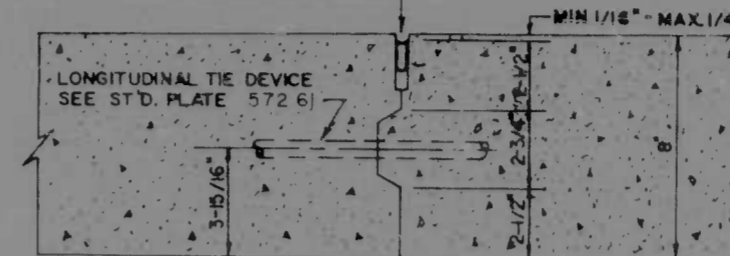


WIDE FLANGE BEAM ANGLE TIE
NOT TO SCALE

TERMINAL JOINT
BAR MATS, BARS, WIRE FABRIC

SAWED JOINT

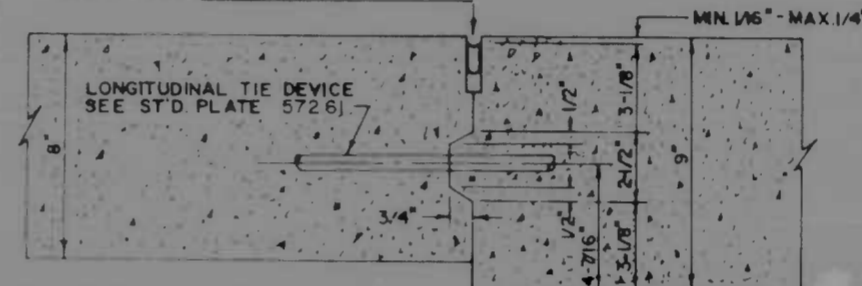
DEPTH - MIN. 1/4" TO PERMIT INSTALLATION OF 7/16" NEOPRENE PREFORMED COMPRESSION SEAL
WIDTH - MIN. 3/16" - MAX. 5/16"



LONGITUDINAL CONSTRUCTION JOINT FOR 12' WIDTH PAVING WITH 8" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT.

SAWED JOINT

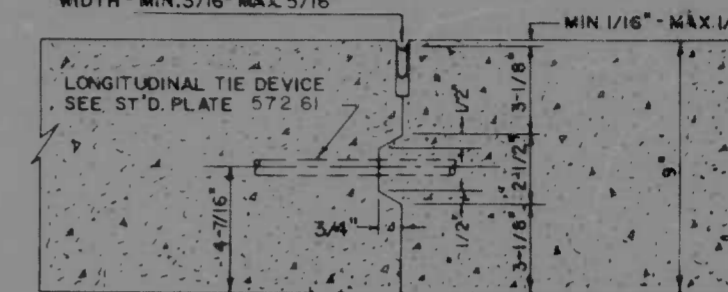
DEPTH - MIN. 1/4" TO PERMIT INSTALLATION OF 7/16" NEOPRENE PREFORMED COMPRESSION SEAL
WIDTH - MIN. 3/16" - MAX. 5/16"



LONGITUDINAL CONSTRUCTION JOINT FOR 24' WIDTH PAVING WITH 8" AND 9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT.

SAWED JOINT

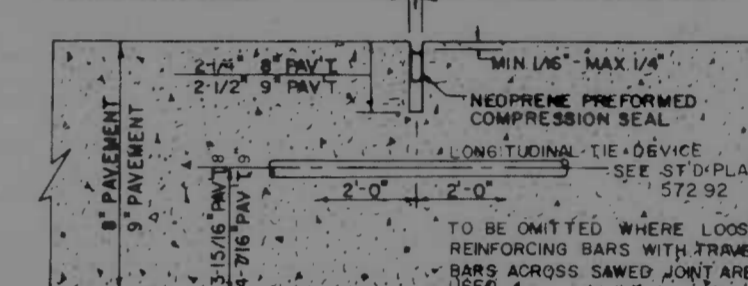
DEPTH - MIN. 1/4" TO PERMIT INSTALLATION OF 7/16" NEOPRENE PREFORMED COMPRESSION SEAL
WIDTH - MIN. 3/16" - MAX. 5/16"



LONGITUDINAL CONSTRUCTION JOINT FOR 12' WIDTH PAVING WITH 9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT.

SAWED JOINT DUMMY JOINT TOOLED JOINT

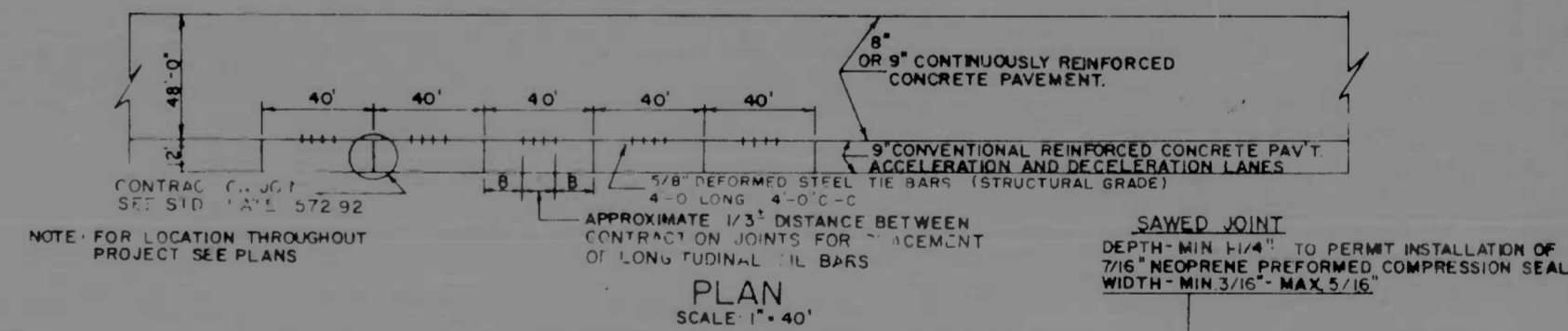
WIDTH - MIN. 3/16" - MAX. 5/16"
7/16" NEOPRENE PREFORMED COMPRESSION SEAL



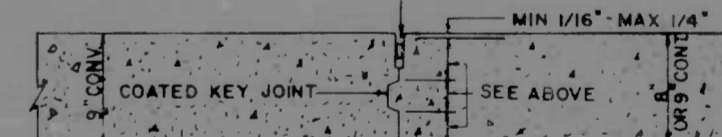
LONGITUDINAL CONSTRUCTION JOINT FOR 24' WIDTH PAVING WITH 8" OR 9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT AND/OR 9" CONVENTIONALLY REINFORCED CONCRETE PAVEMENT. SAW JOINT IN 72 HOURS.

DETAILS OF LONGITUDINAL CONSTRUCTION JOINTS

SCALE: 3" = 1'-0"



PLAN
SCALE: 1" = 40'



LONGITUDINAL KEY JOINT
(B' DISTANCE)
SCALE: 1 1/2" = 1'-0"

NOTE: 'B' DISTANCE
COAT KEY JOINT WITH BITUMINOUS MATERIAL AS DIRECTED IN APPROXIMATE 2/3'D DISTANCE BETWEEN CONTRACTION JOINTS. NO TIE BARS WILL BE PLACED WITHIN THIS DISTANCE.

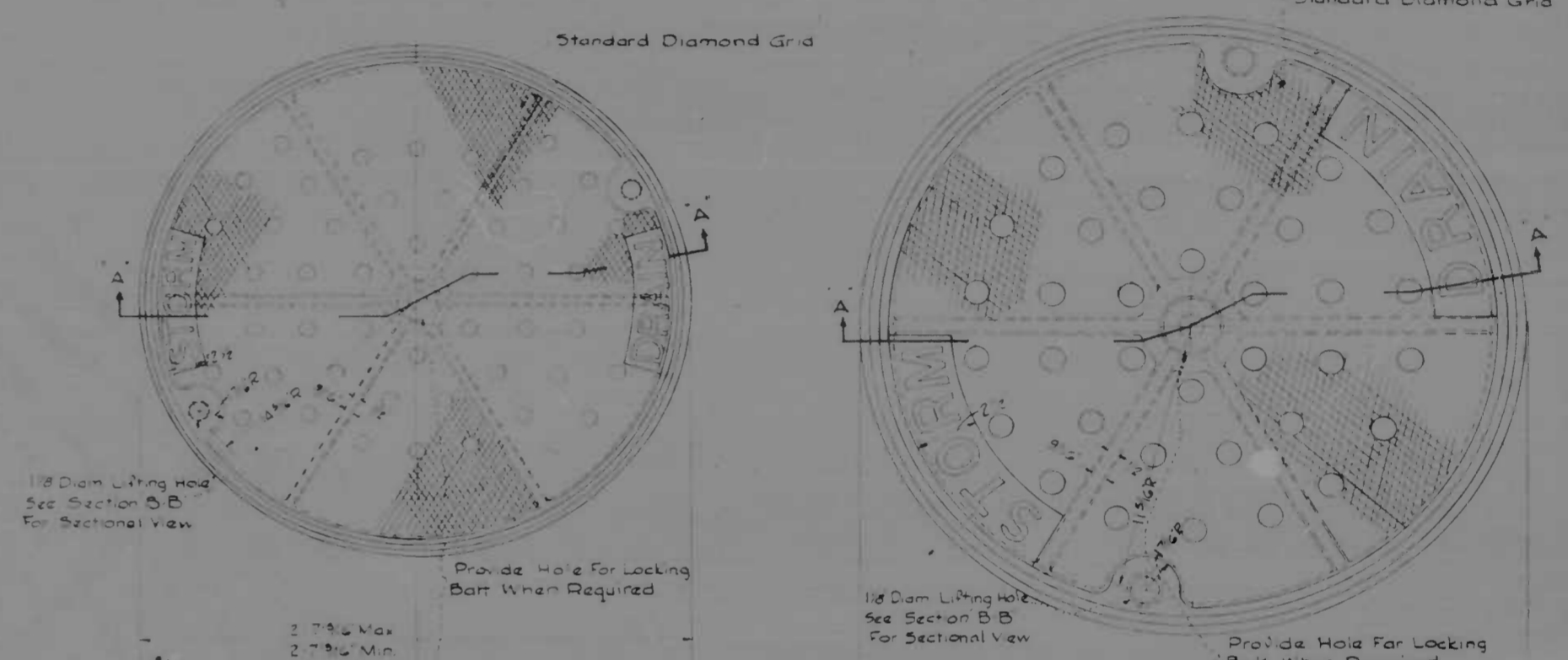
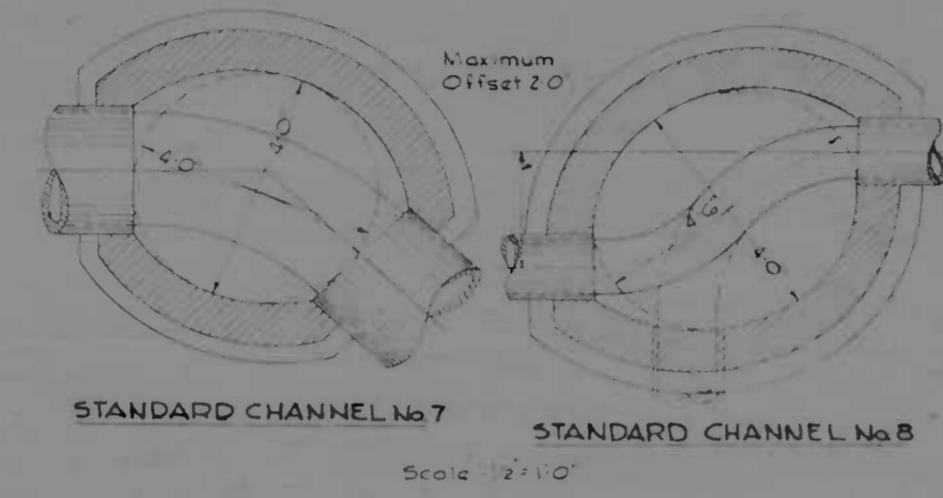
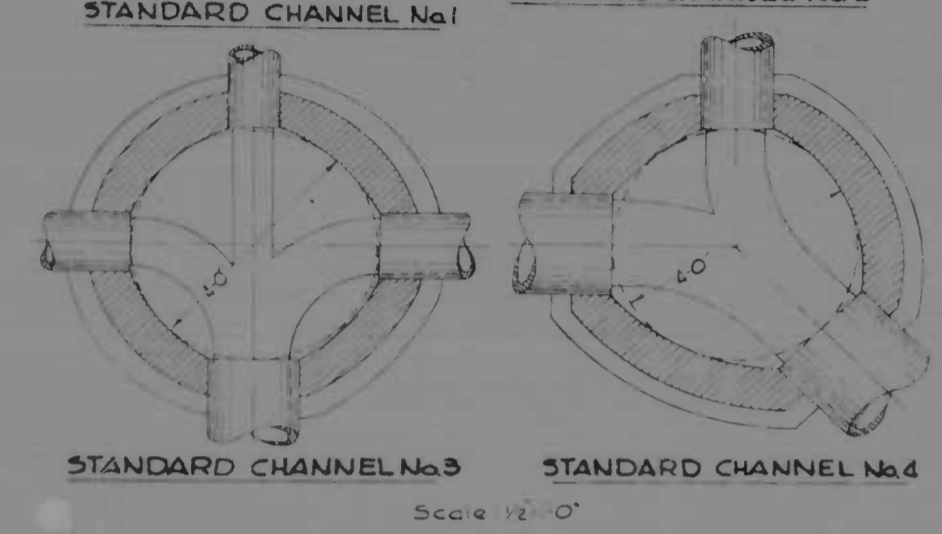
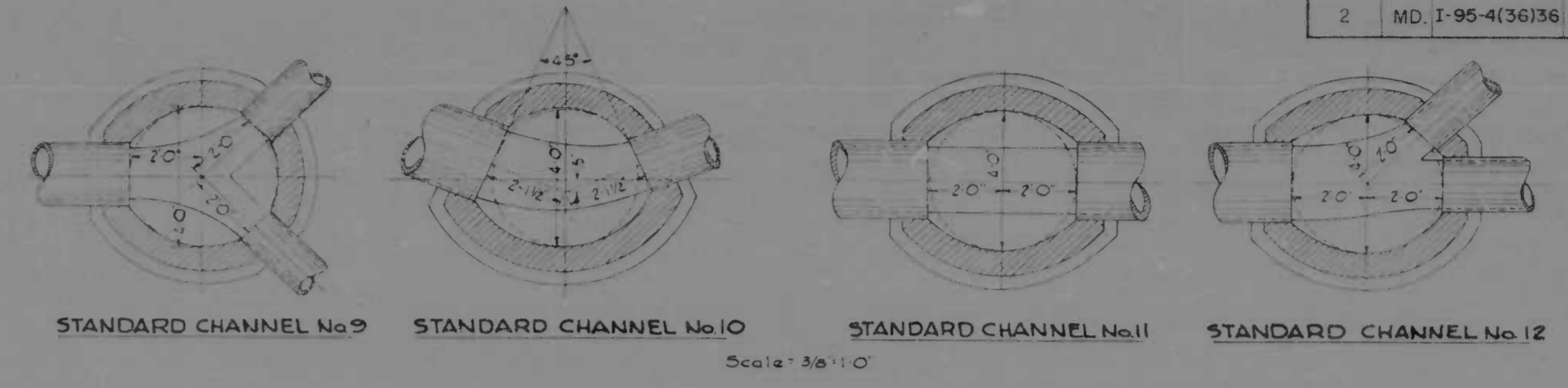
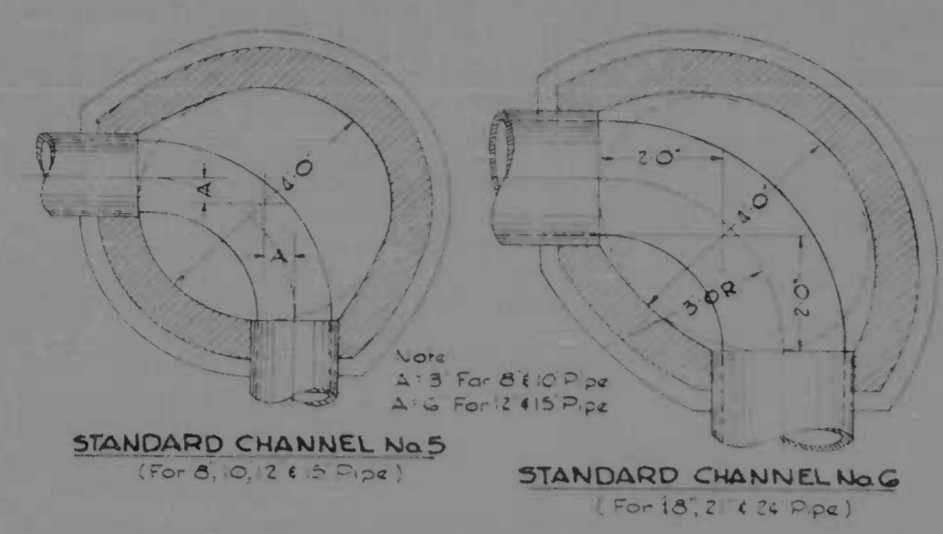
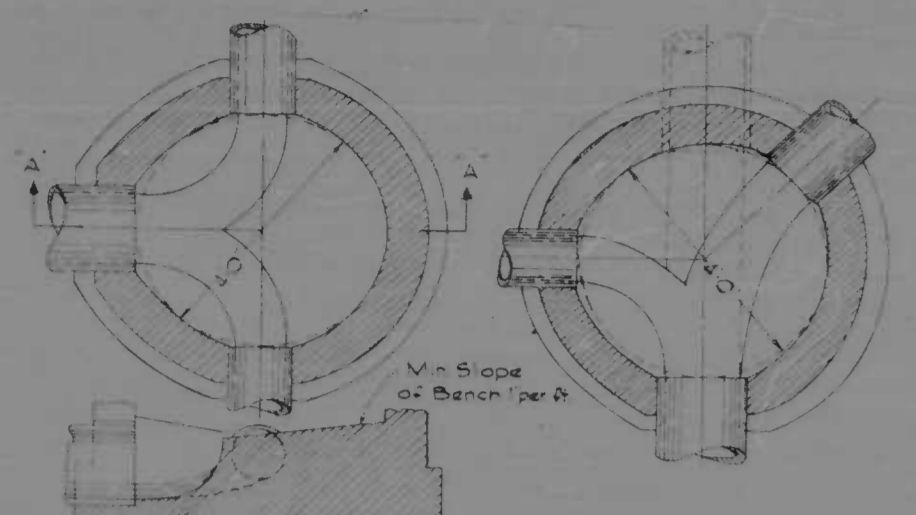
9" CONVENTIONALLY REINFORCED CONCRETE PAVEMENT
ADJACENT TO 8" OR 9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT

CONTINUOUSLY REINFORCED CONCRETE PAVEMENT JOINT DETAILS

CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	B	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE
INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD		DRAWN BY S.R.C. TRACED BY S.R.C. FAP NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815
SCALE AS SHOWN	DATE	DES. BY S.R.C. CHK. BY S.R.C. SHEET NO. (92) T-13 OF T-15
		BALTO. CITY NO. 1992

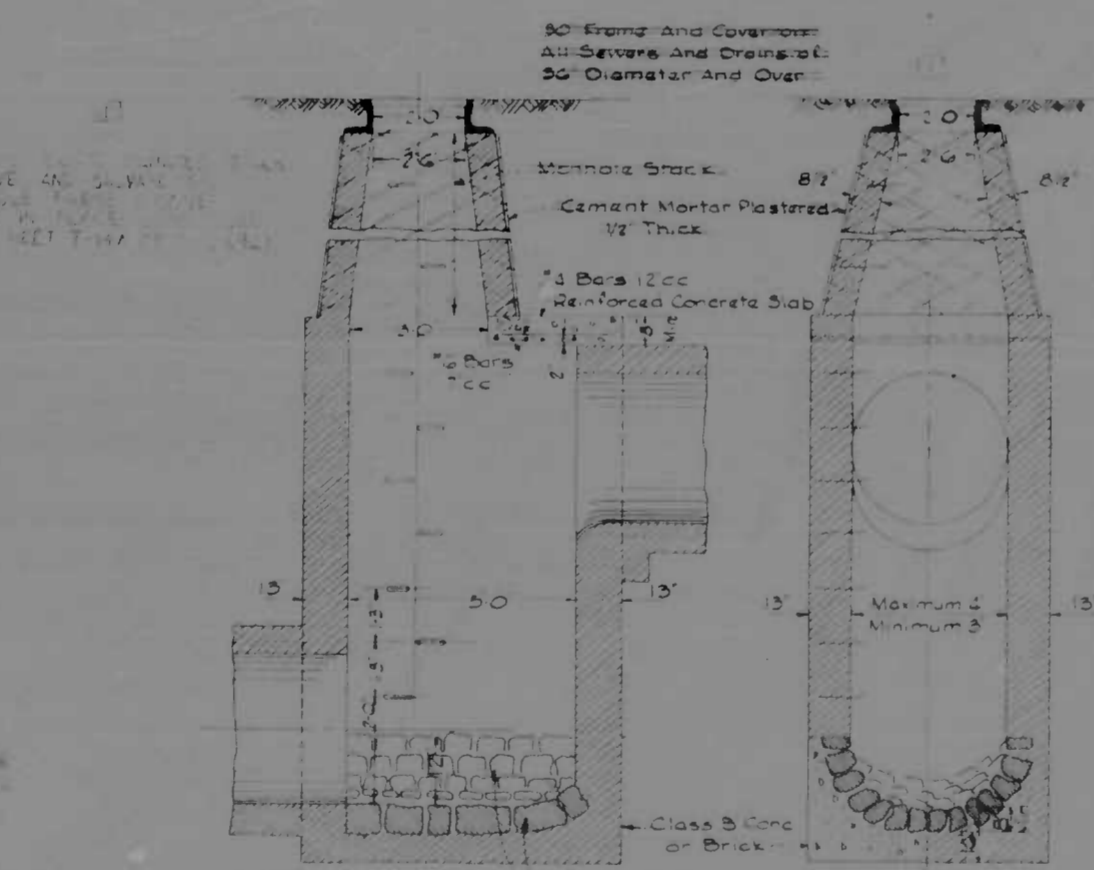
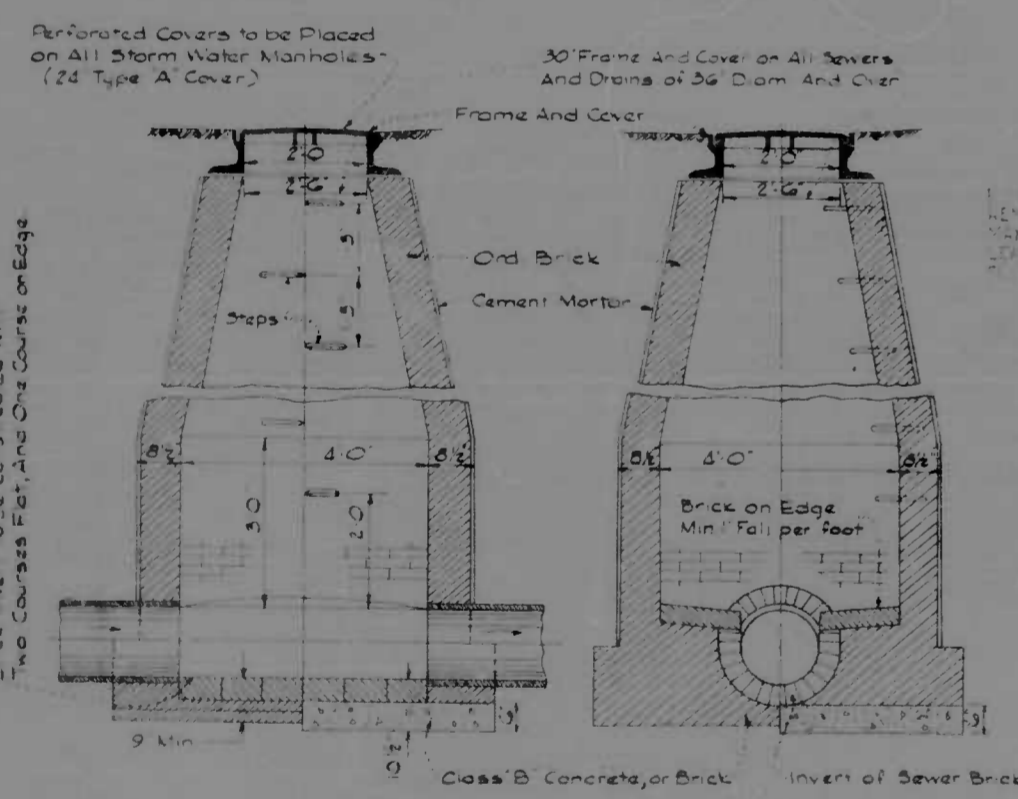
SP 16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	T-14	192 T-15

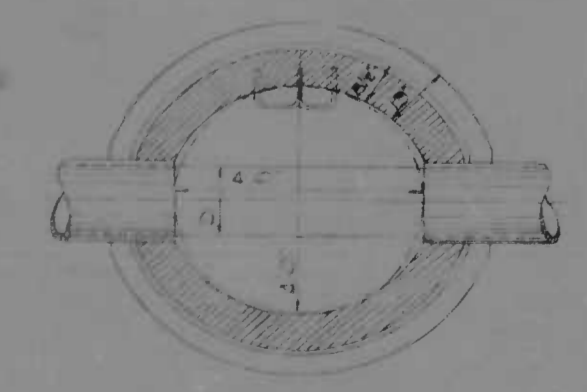


Bench Height Above Outgoing Pipe Invert to be Equal to Diameter of Outgoing Pipe

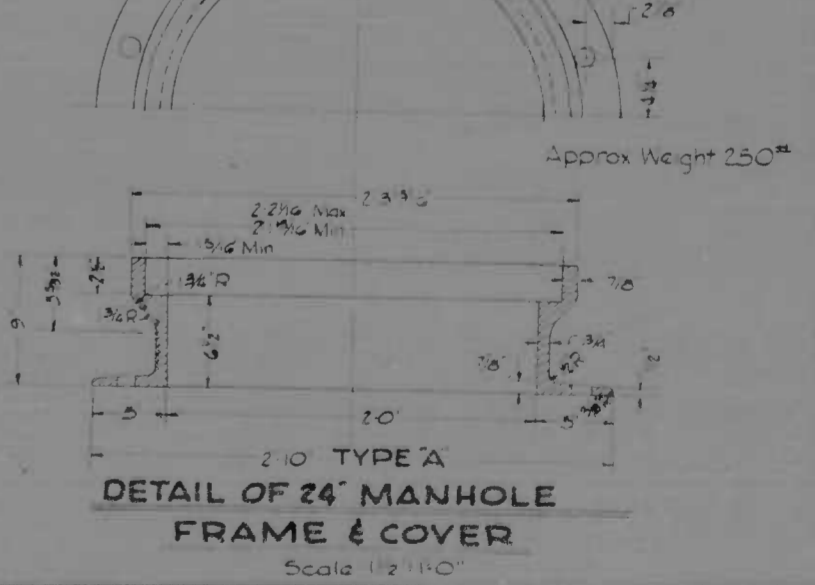
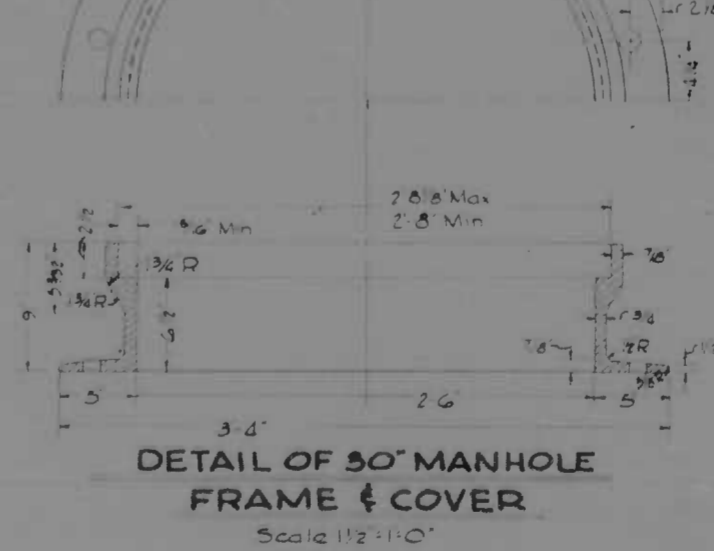
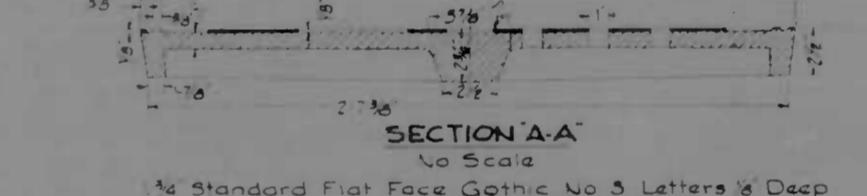
TYPICAL MANHOLE CHANNELS



NOTE:
If Concrete Slab is Used, place 3/4" Bars 1/2" C/c. Barways 2' Clear From Top When Required by Engineer
MANHOLE WALL THICKNESS
A/2 To Depth of 2'-0"
3/4 Below Depth of 2'-0"

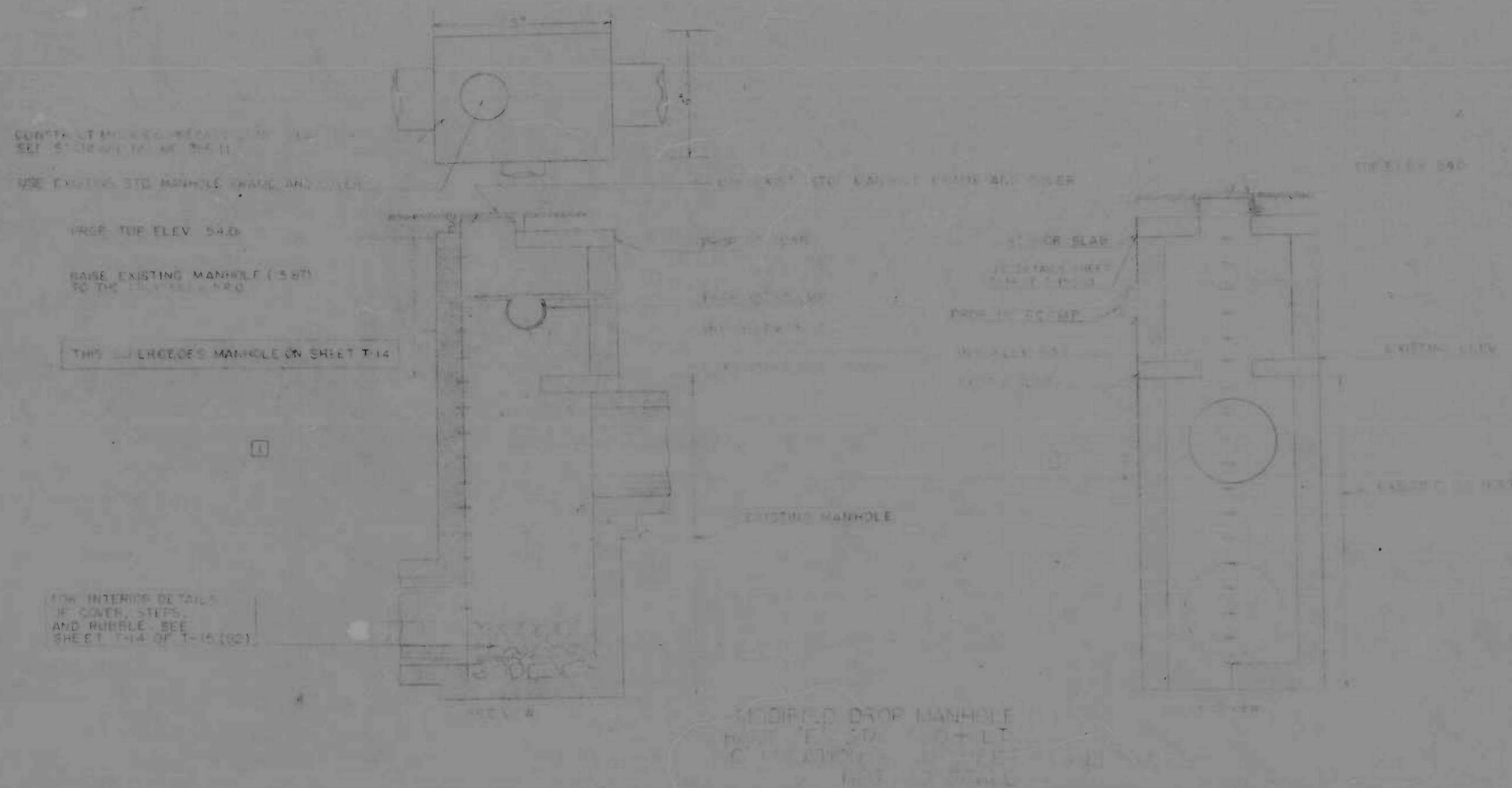


STANDARD STORM DRAIN DROP MANHOLE
Scale: 3/8"=1'-0"



REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOERL, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 941 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY: M.F.H. CHECKED BY: M.F.H. F.A.P. NO. I-95-4(36)36 S.R.C. NO. B.C.245-33-815 BALTO. CITY NO. 1935
		SCALE: As Shown	DATE
			SHEET NO. T-14 OF T-15

FED. ROAD DIST. NO.	STATE	FILE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
2	MD.	1-24-40076	T-14A	7-15	



CONTRACT NUMBER: 1-24-40076
SHEET 7-15 OF 15

USE EXISTING STD. MANHOLE FRAME AND COVER

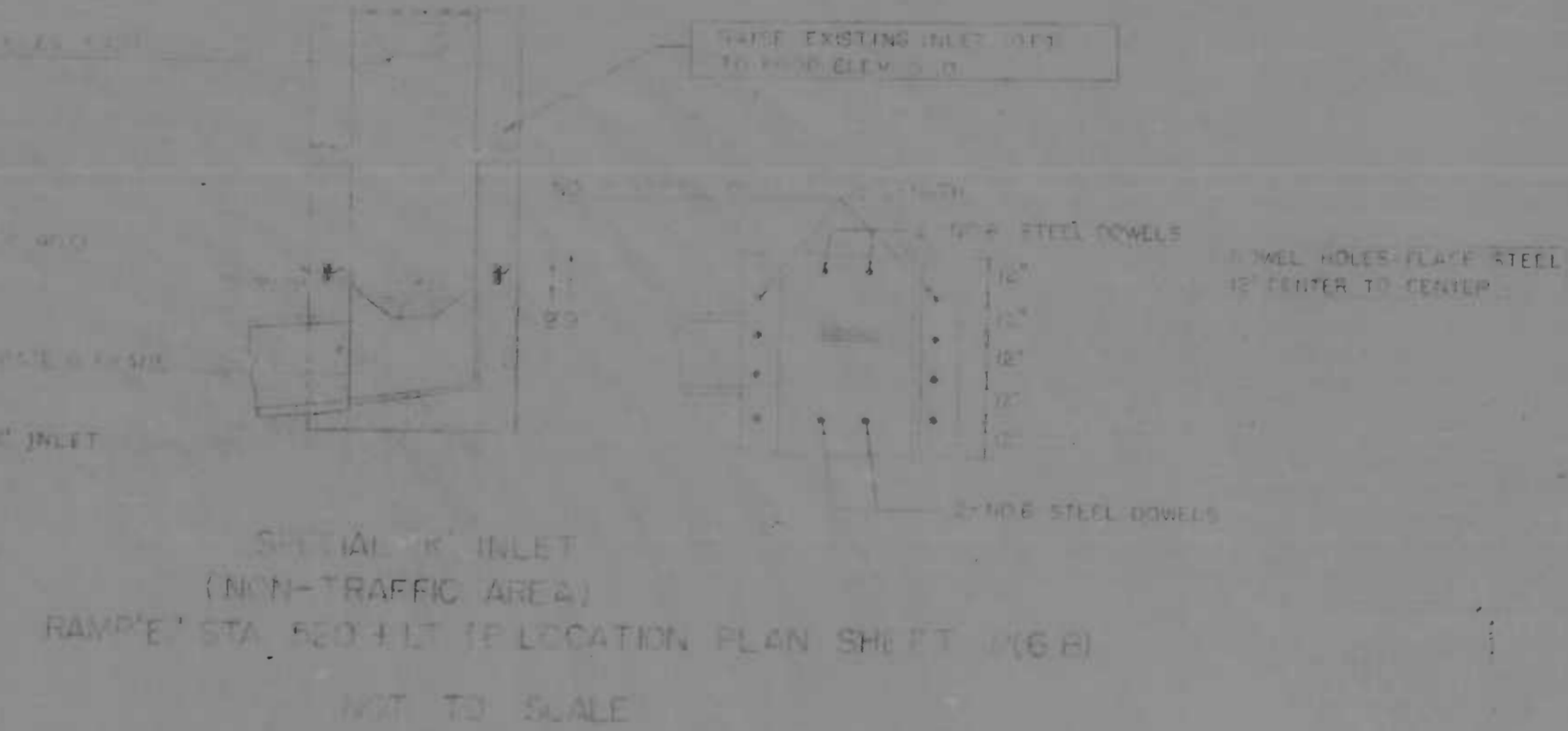
PROG. TOP ELEV. 54.0

RAISE EXISTING MANHOLE (3.87) TO THE ELEV. 54.0

THIS SUCCEEDS MANHOLE ON SHEET T-14

FOR INTERIOR DETAILS OF COVER, STEPS AND RIBBLE, SEE SHEET T-14 OF T-15 (OC)

RAISE EXIST. INLET 10' TO ELEV. 54.0
REMOVE AND RAISE EXIST. FRAME AND RINGS ON PROP. INLET
WIRE INLET BELL HOLES IN TOP OF 12" INLET AND FLANGE STEEL
DOWELS IN PLACE TO SUPPORT CONSTRUCTION OF PROP. INLET WALLS

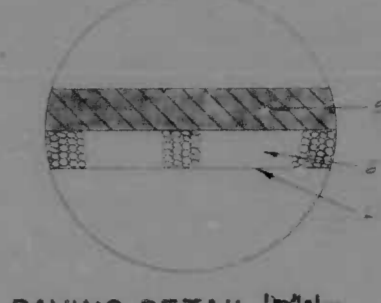


SPECIAL "K" INLET
(NON-TRAFFIC AREA)
RAMP/E STA. 520+11.7 (IF LOCATION PLAN SHEET M6 B)
NOT TO SCALE

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. REVISED FOR CONSTRUCTION NOV. 1972		DESIGNED BY CHECKED BY	DESIGNED BY CHECKED BY
		SCALE	DATE
			BALTO. CITY NO.

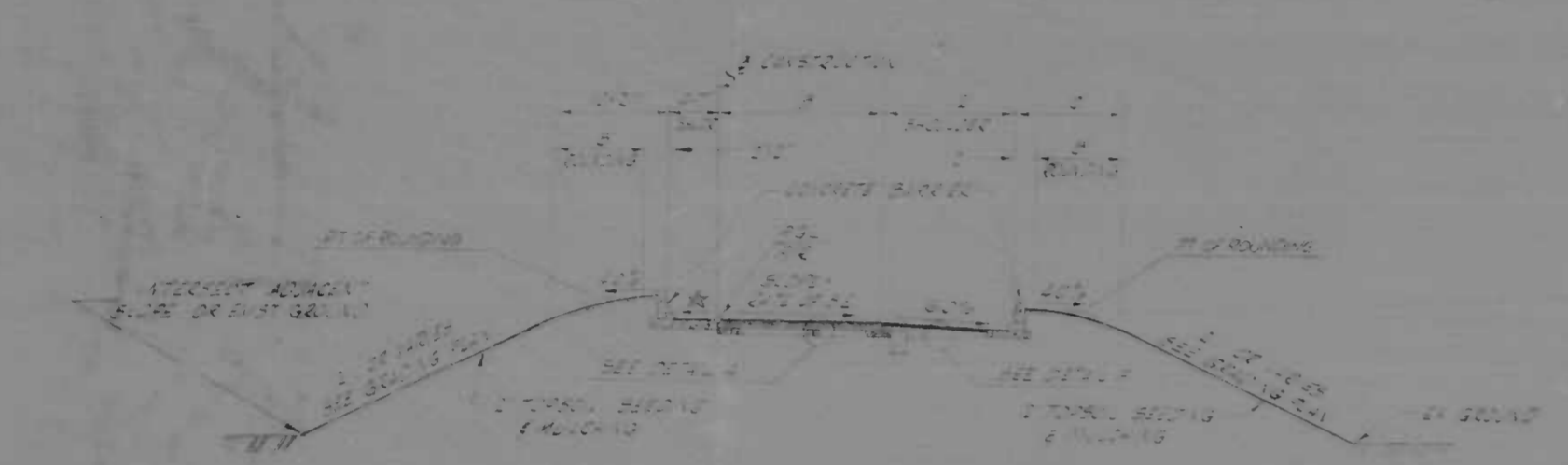
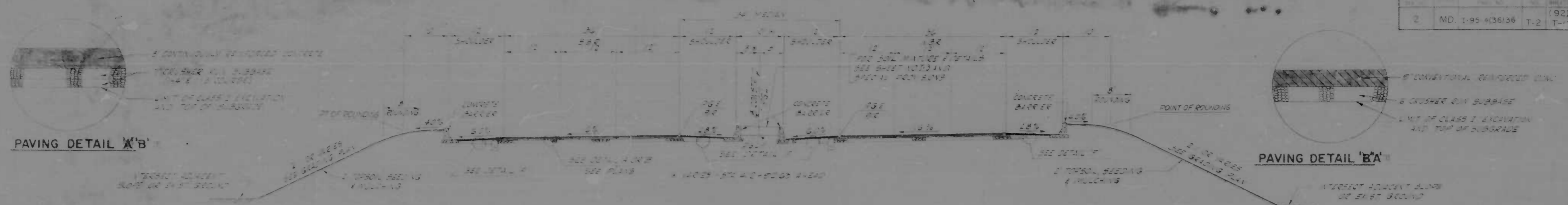


PAVING DETAIL 'A'B'

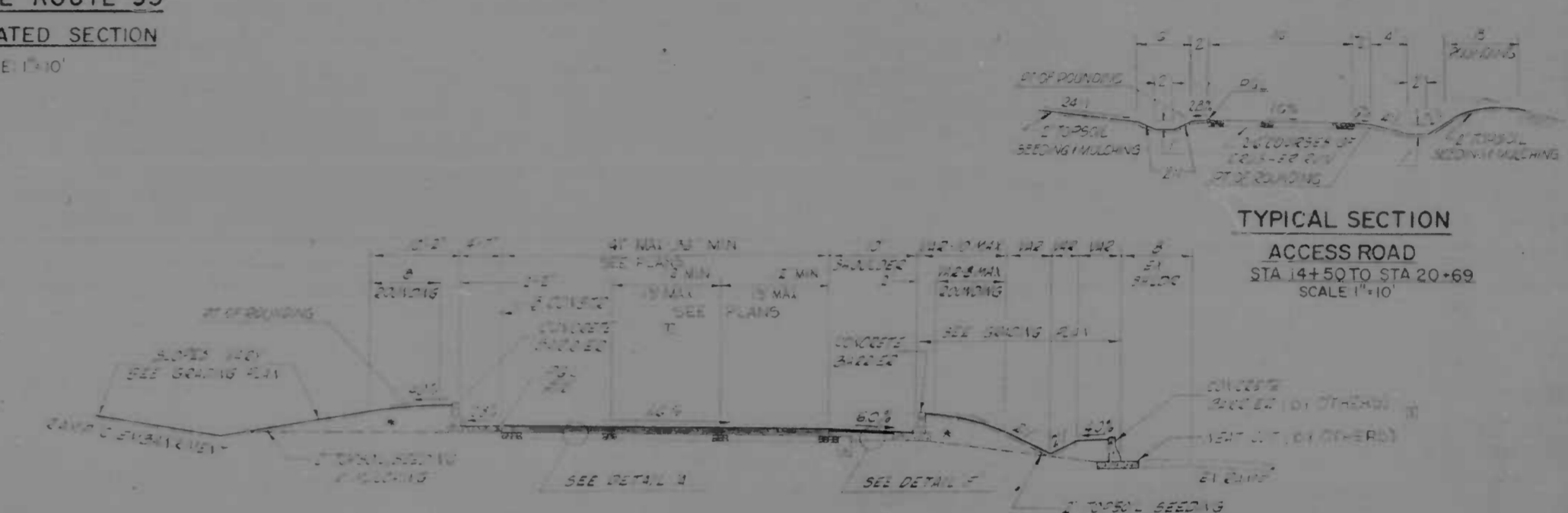


PAVING DETAIL 'BA'

**INTERSTATE ROUTE 95
SUPERELEVATED SECTION**
SCALE 1"=10'



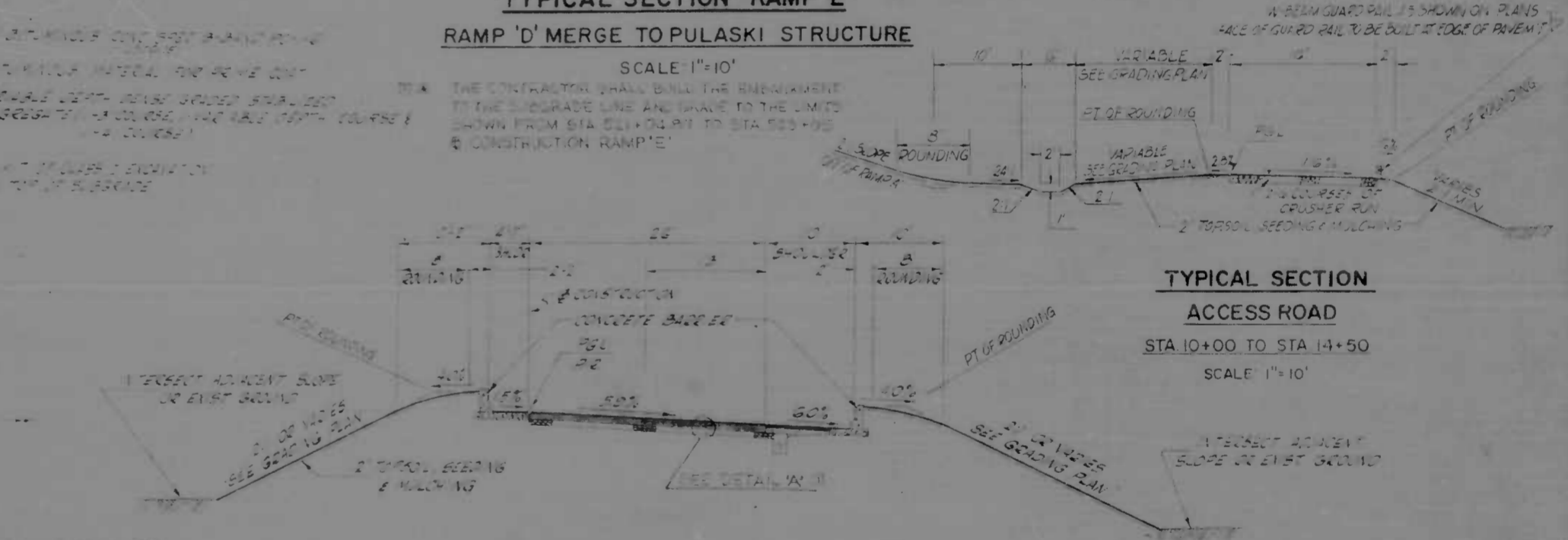
TYPICAL SECTION-RAMP 'A'
STA 15+29.49 TO RAMP 'B' MERGE
SCALE 1"=10'



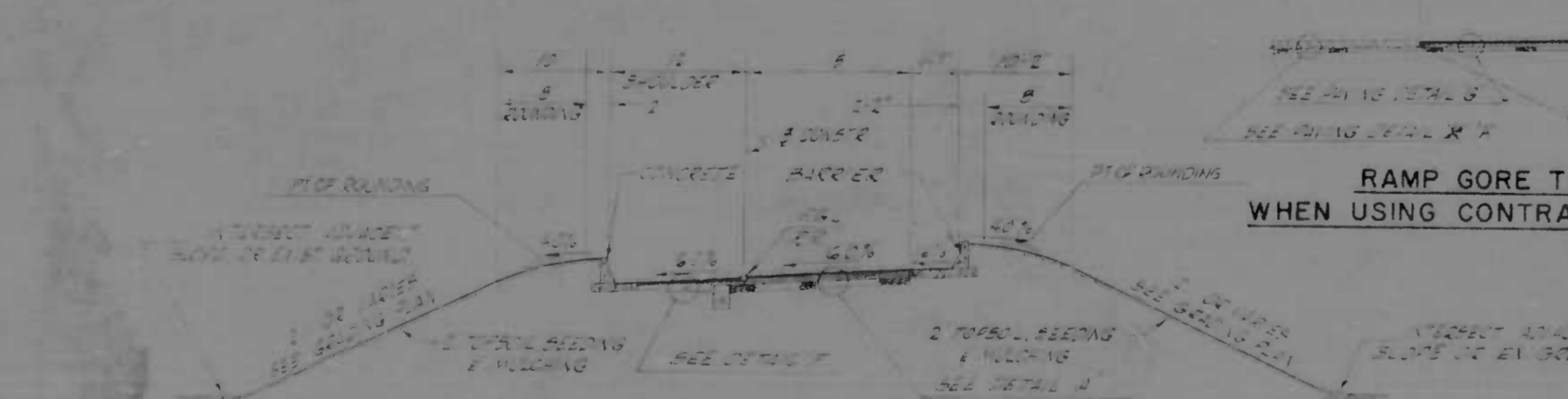
TYPICAL SECTION-RAMP 'E'
RAMP 'D' MERGE TO PULASKI STRUCTURE
SCALE 1"=10'



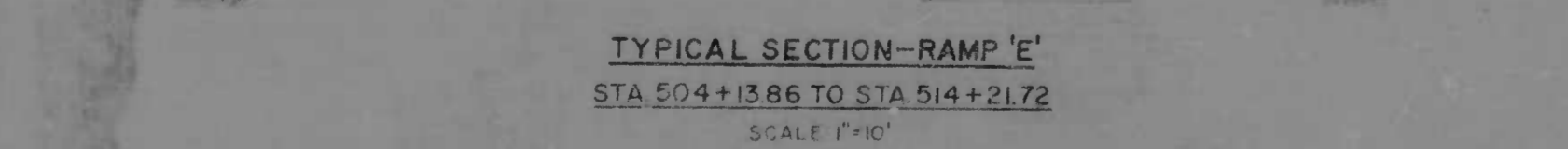
TYPICAL SECTION-RAMP 'C'
STA 199+85.67 TO RAMP 'A' MERGE
SCALE 1"=10'



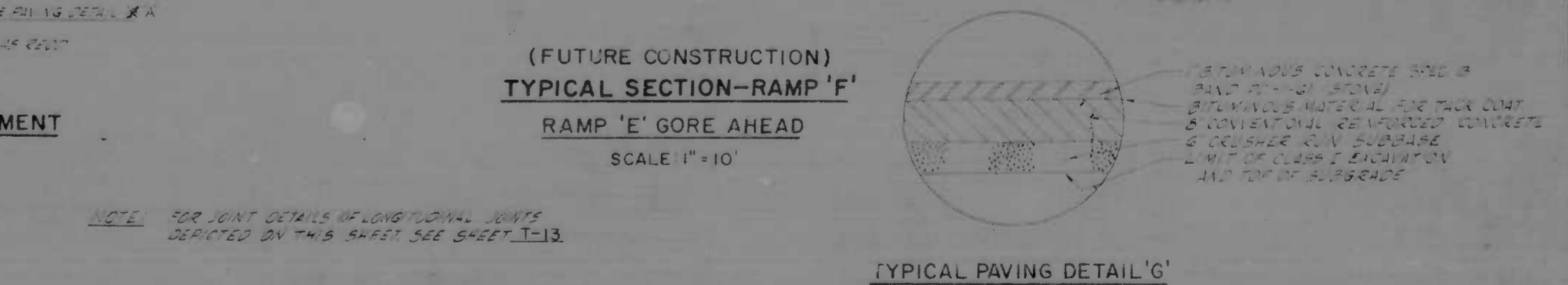
**(FUTURE CONSTRUCTION)
TYPICAL SECTION-RAMP 'F'**
RAMP 'E' GORE AHEAD
SCALE 1"=10'



**RAMP GORE TREATMENT
WHEN USING CONTRASTING PAVEMENT**



TYPICAL SECTION-RAMP 'E'
STA 504+13.86 TO STA 514+21.72
SCALE 1"=10'

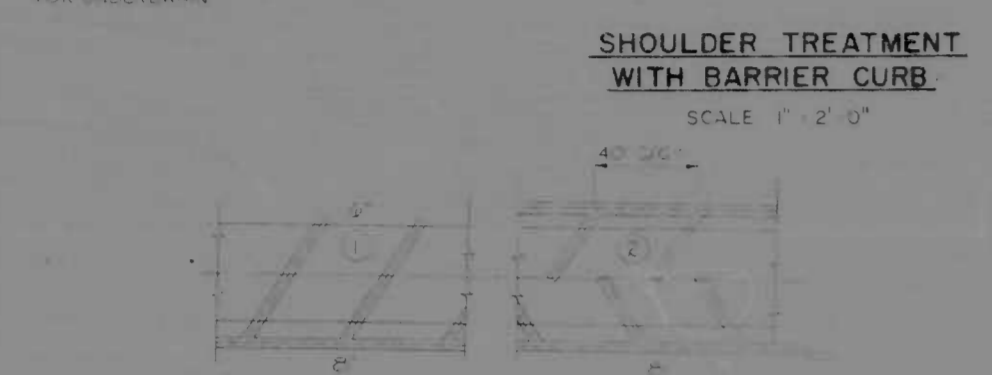
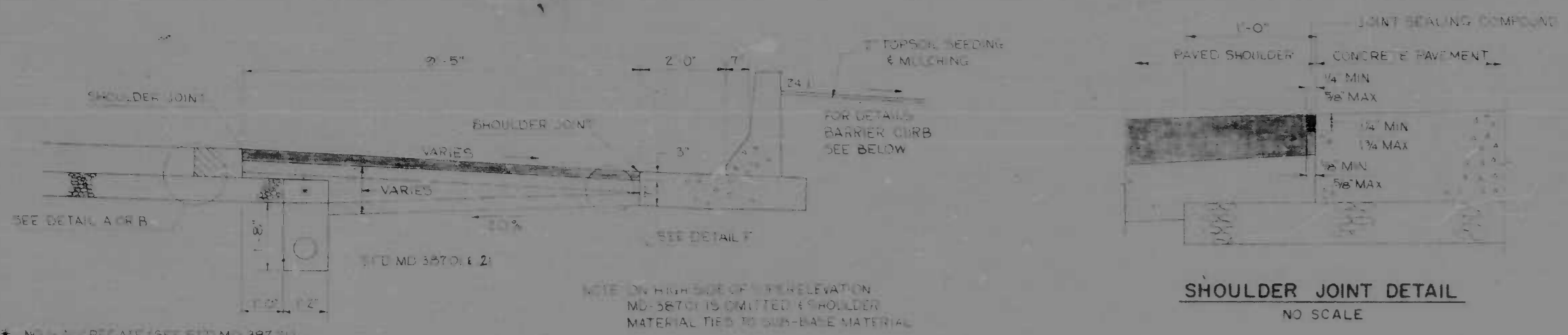


TYPICAL PAVING DETAIL 'G'

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. INITIAL DESIGN	KNOERLE, BENDER, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 511 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY: F.W. TRACED BY: F.W. F.A.P. NO. 1-95-4/36/36 P.R.C. NO. BG 246-33-815 BALTO. CITY NO. 1995
		SCALE: AS SHOWN	DES. BY: I.E.L. CHK. BY: R.W.C. SHEET NO. (92) T-2 OF T-15

NOTE: FOR JOINT DETAILS OF LONGITUDINAL JOINTS
DEPICTED ON THIS SHEET SEE SHEET T-13.

FILE NO.	2	STATE	MD	FEED AND PROJECT NO.	I-95-4(36)36	SHEET NO.	T-3	TOTAL SHEETS	(92)
----------	---	-------	----	----------------------	--------------	-----------	-----	--------------	------

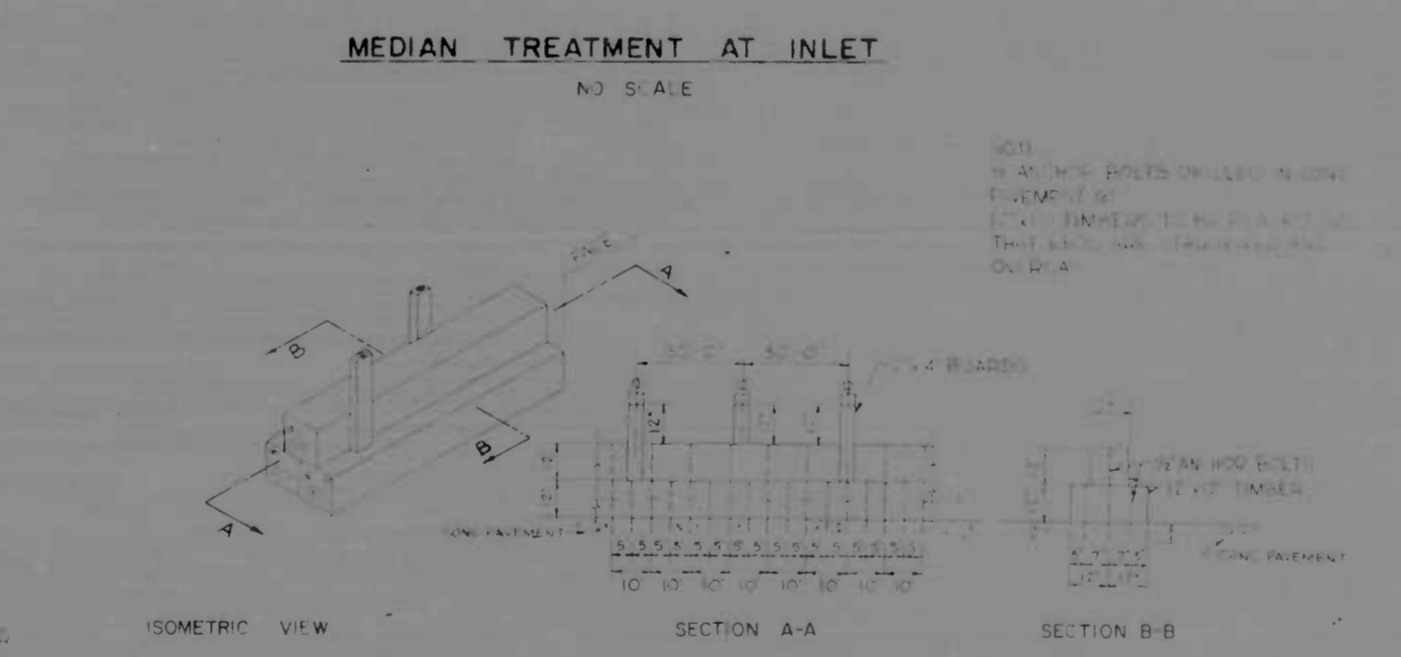
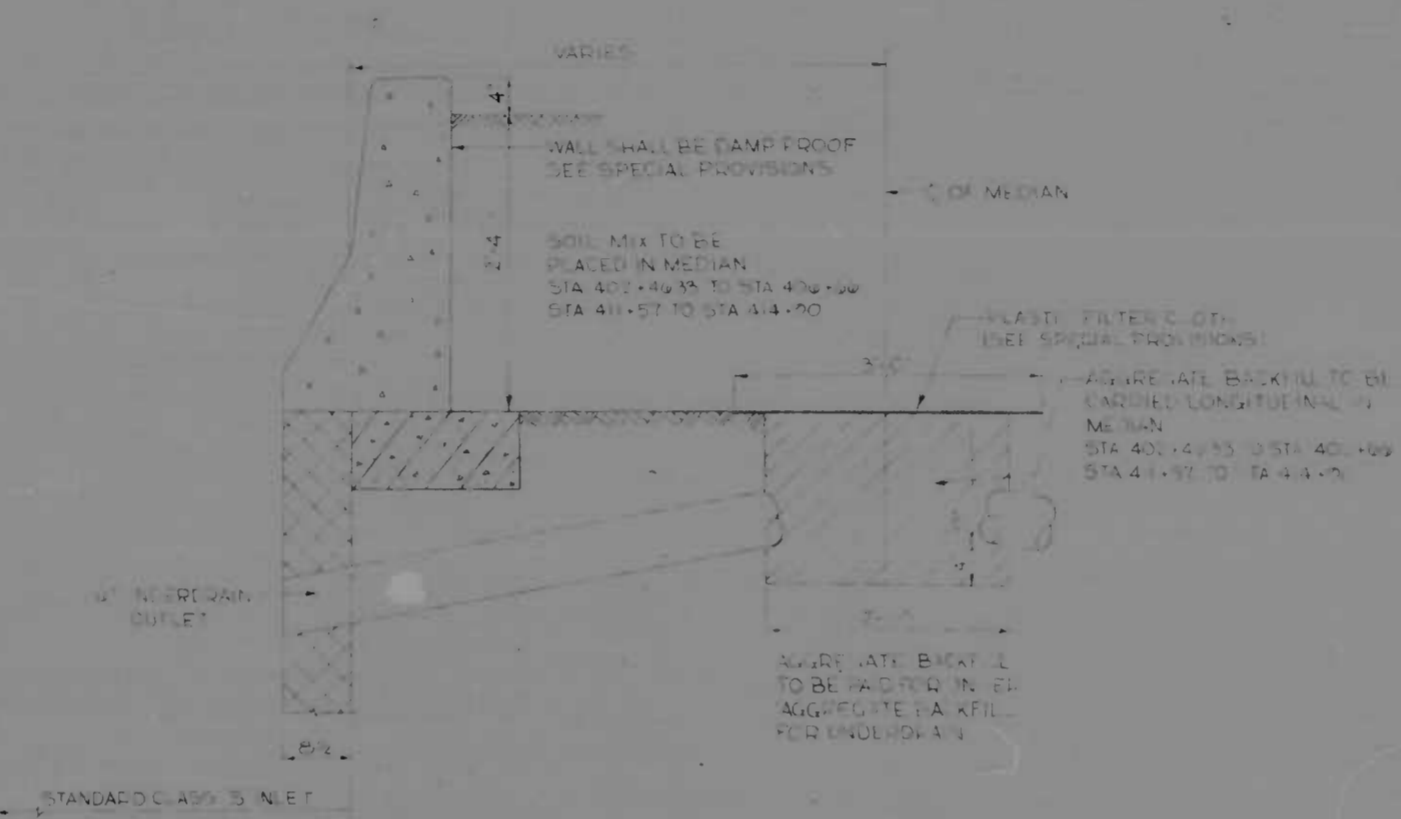


CONTINGENT UNDERDRAIN PATTERN
SEE SPEC. STD. PLATE MD-3870I NOT TO SCALE
USING SUB-SURFACE DRAINAGE DITCH SECTION

1) PERFORATED ROUND UNDERDRAIN LATERALS 4" O.D. 24" DEPT.
2) PERFORATED ROUND UNDERDRAIN LATERALS 4" REQUIRED
3) UNDERDRAIN LINE ONE SIDE WITH LATERALS
4) UNDERDRAIN LINE BOTH SIDES WITH STAGGERED LATERALS

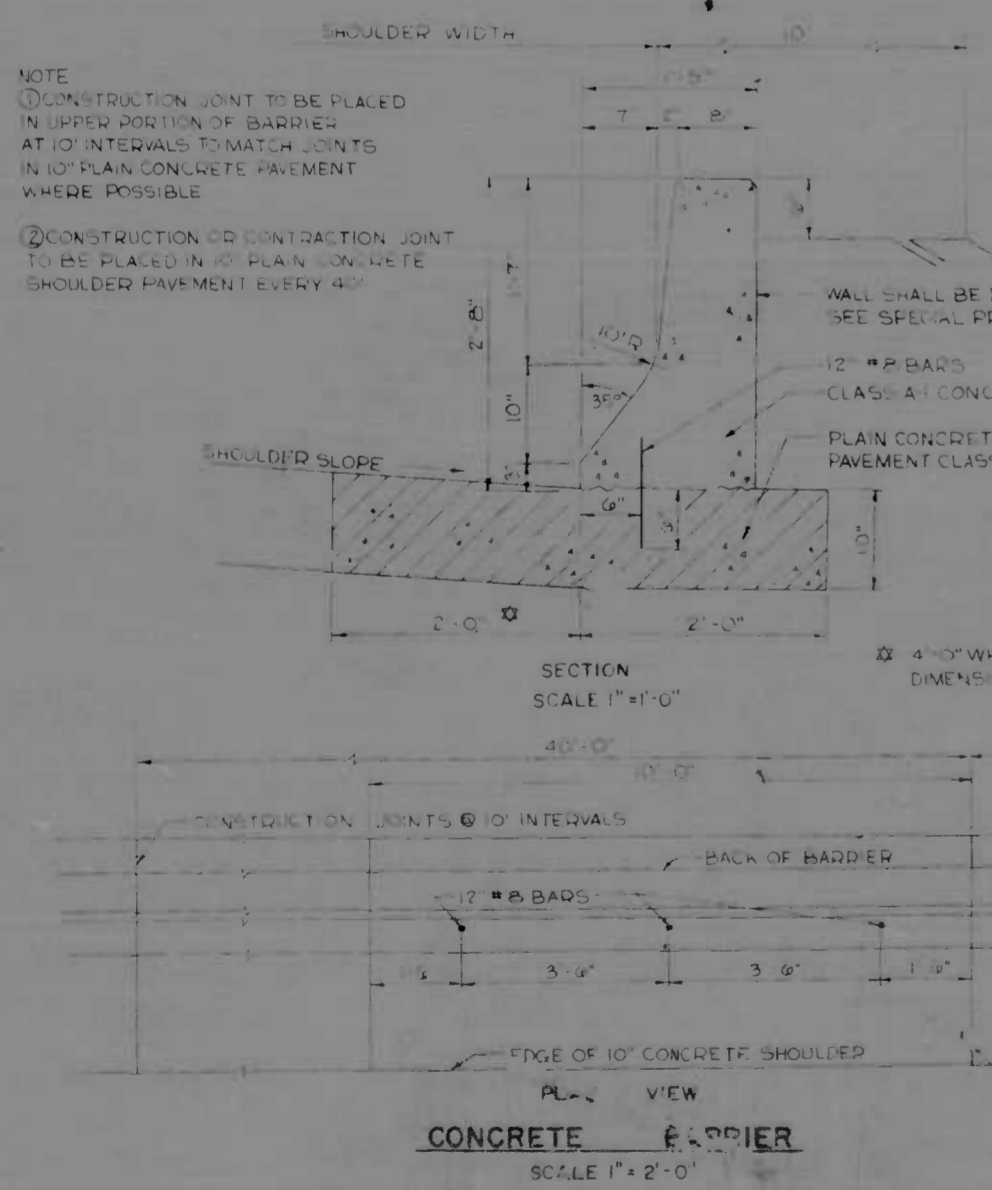
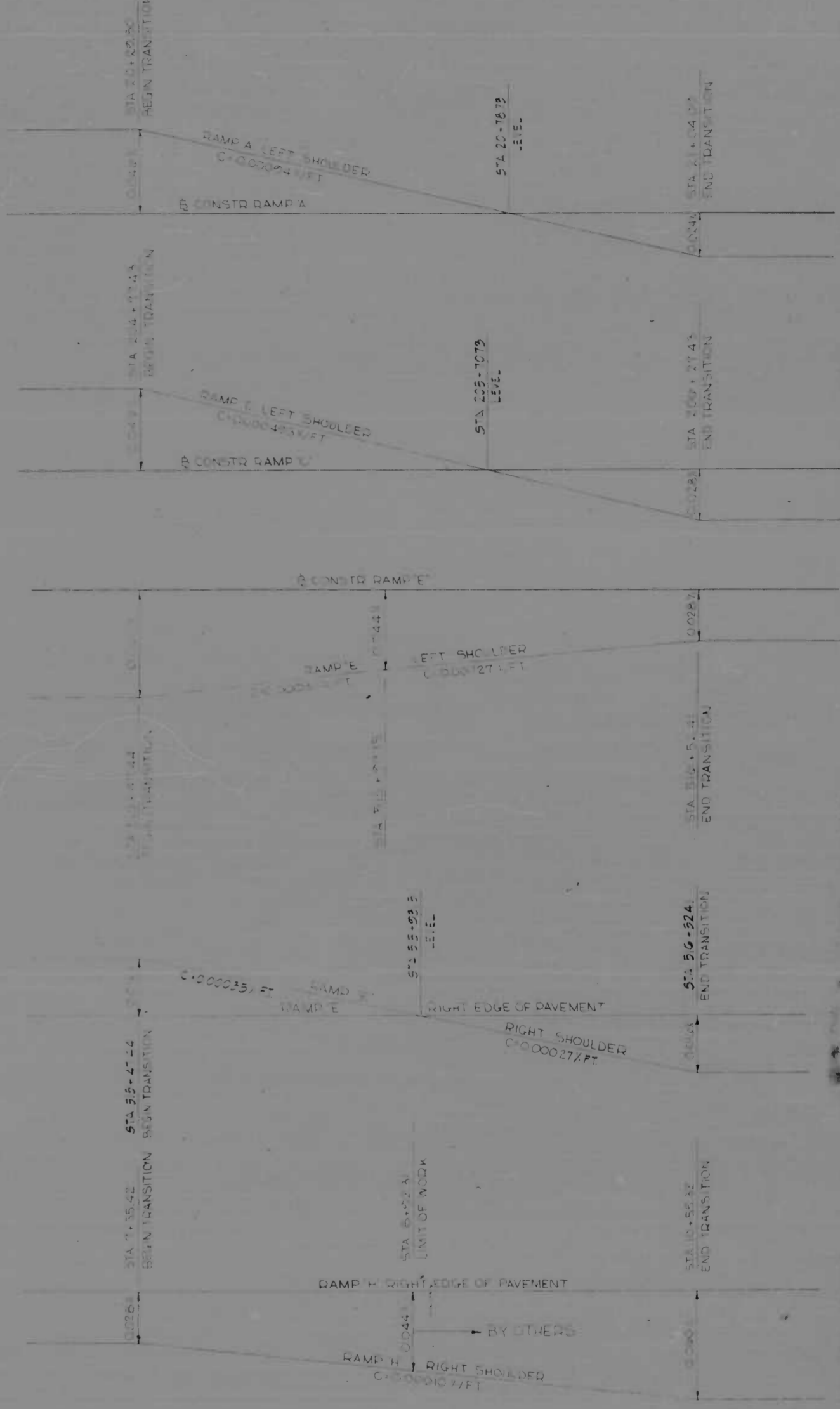
TO BE CONSTRUCTED IF DIRECTED BY THE ENGINEER FOR CONTROL OF INTERGROUND SPRING AND SUB-GRADE DRAINAGE PROBLEMS IN WET CUT AREAS. LOCATIONS AND TYPE AS DIRECTED BY THE ENGINEER.

CONTINGENT UNDERDRAIN PATTERN
NO SCALE



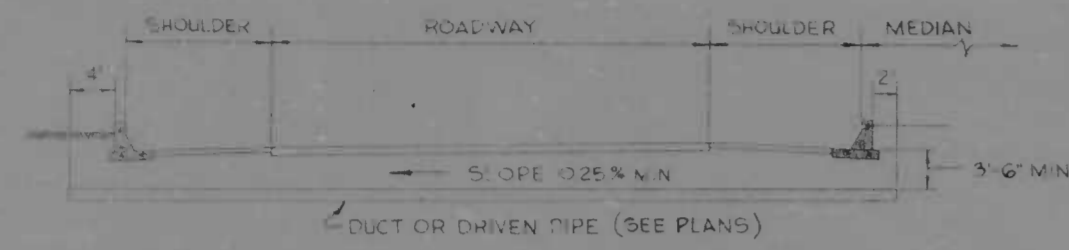
TEMPORARY EDGE DELINEATOR
NO SCALE

SHOULDER SLOPE TRANSITIONS

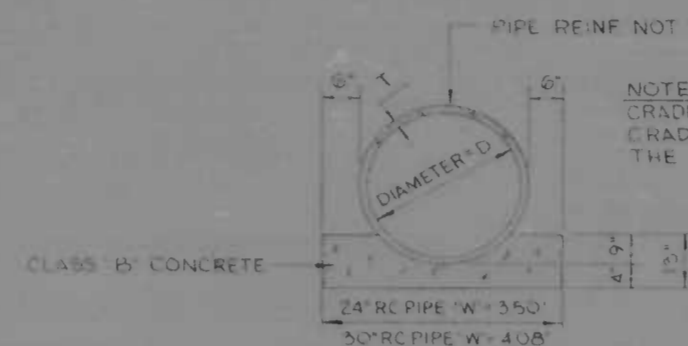


CONCRETE BARRIER
SCALE 1" = 2'-0"

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KROERLE, BENDER, STONE & ASSOC., INC. AND MATZ, OHLING & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY JWS TRACED BY JWS F.A.P. NO I-95-4(36)36 S.P.C. NO BC 246-33-815 BALTO. CITY NO. 1995
		SCALE: As Shown	DES. BY TEL CHK. BY JLC SHEET NO. (92) T-3 of T-15



TYPICAL SECTION DUCT CROSSOVER
 NO SCALE

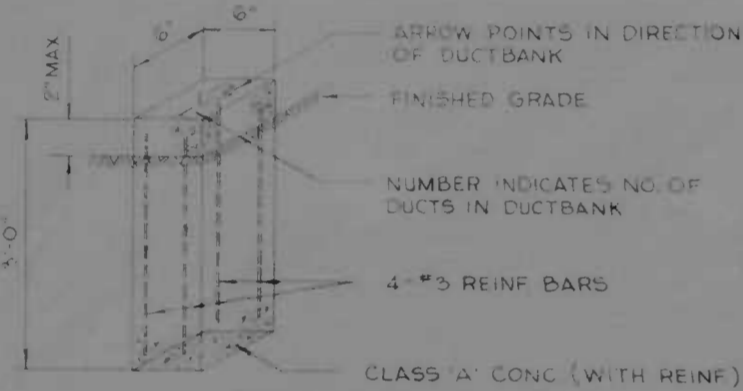


CONCRETE CRADLES FOR REINFORCED CONCRETE CULVERT PIPE
 NO SCALE

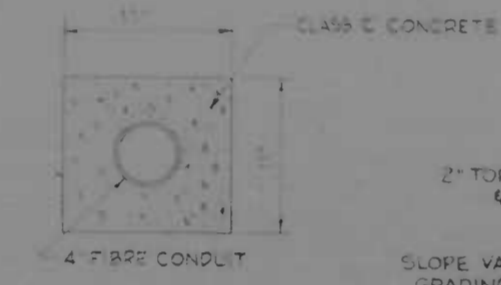


SOD DITCH DETAIL
 NO SCALE

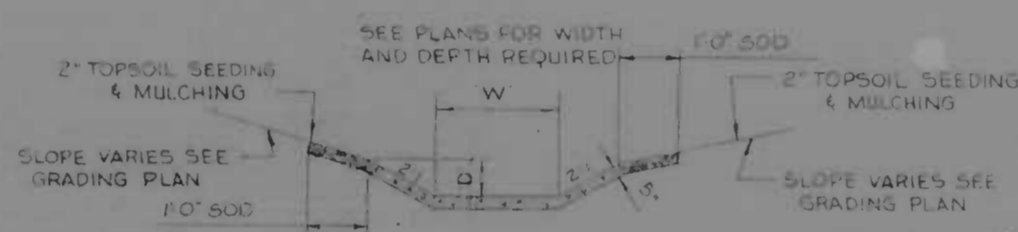
NOTE: SET MARKER FLUSH WITH END AND LEFT SIDE OF DUCTBANK



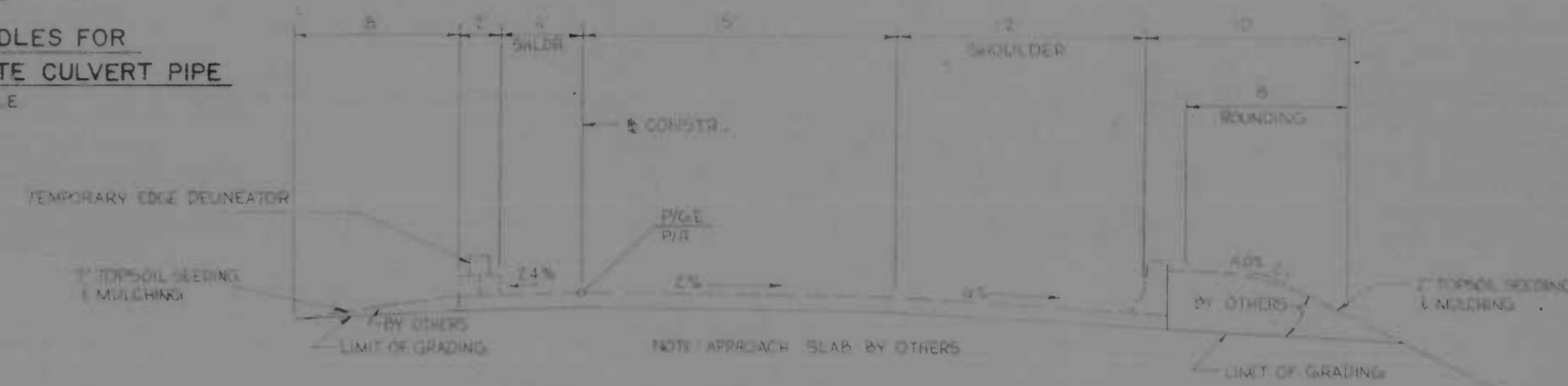
DUCT MARKER DETAIL
 NO SCALE



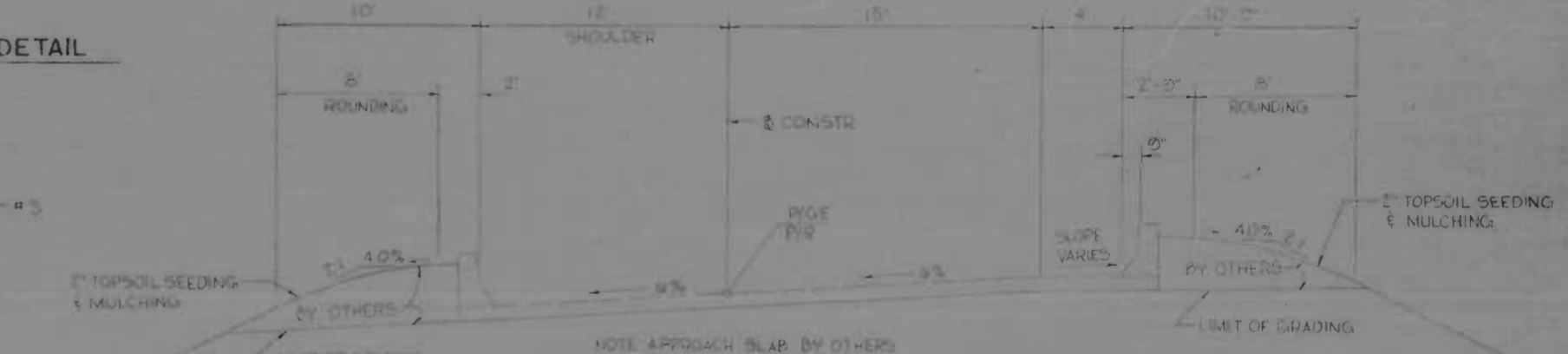
1-WAY DUCTBANK
 NO SCALE



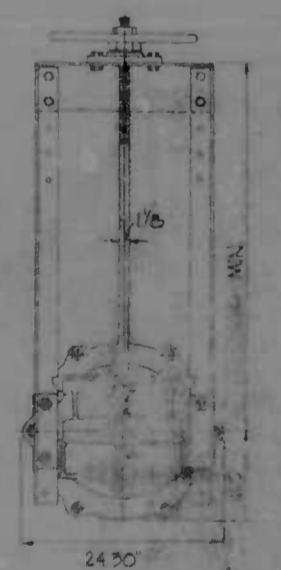
CONCRETE DITCH DETAIL
 NO SCALE



GRADING AT APPROACH SLAB - RAMP 'A'
 STA 27+56.19 TO STA 27+71.19
 NO SCALE

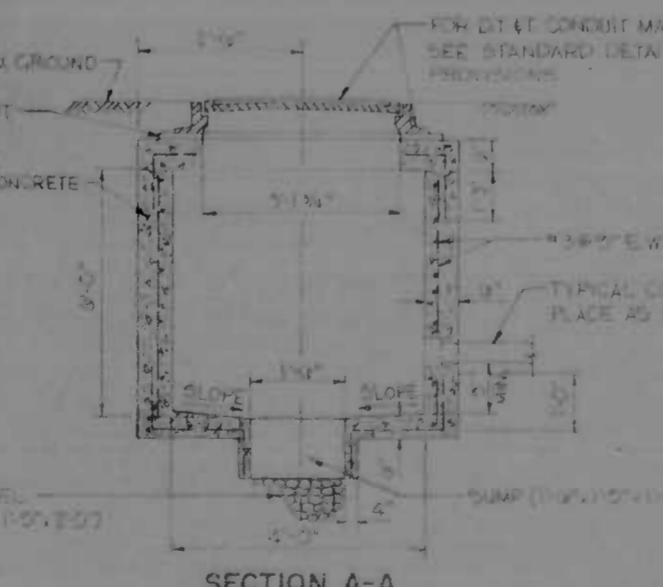
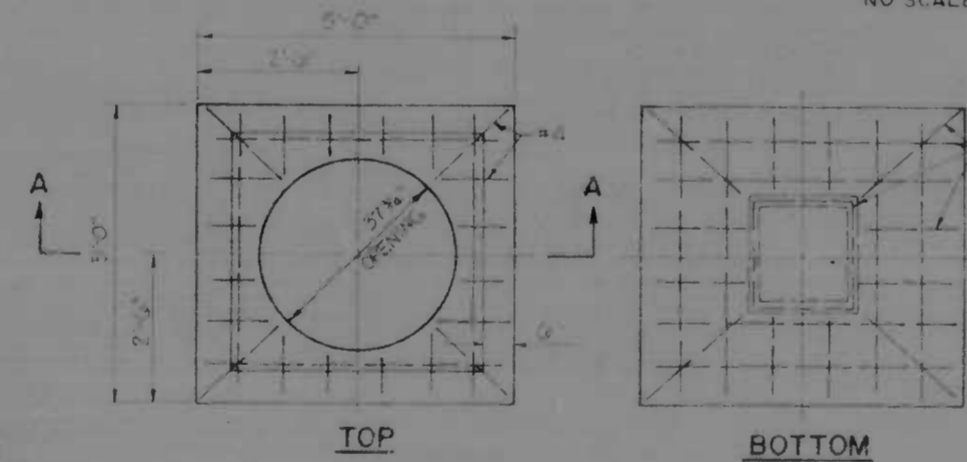


GRADING AT APPROACH SLAB - RAMP 'E'
 STA 504+54.76 TO STA.504+69.76
 NO SCALE



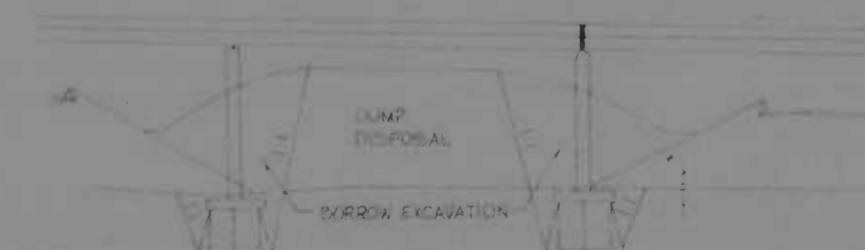
SLIICE GATE
 NO SCALE

NOTE: SLIICE GATE IS TO BE SELF CONTAINED, INSTALLED TO SUSTAIN A 10 UNWEIGHTED HEAD. THE GATE SHOULD HAVE A ROUND OPENING, A RISING 9\"/>



4'x4'x6' H.R. TRANSIT B TRAFFIC MANHOLE
 NO SCALE

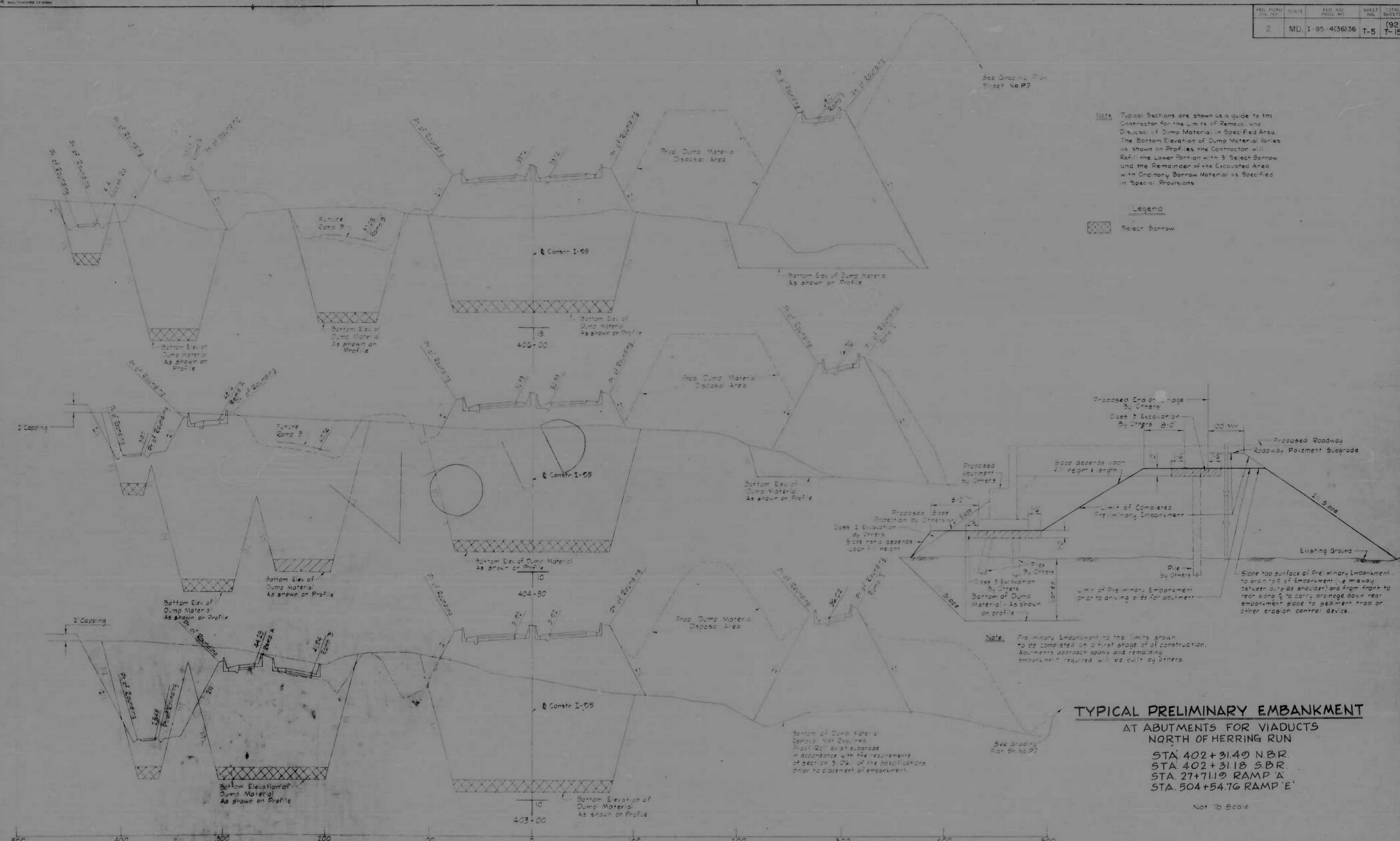
NOTE: THE CONTRACTOR HAS THE OPTION OF FURNISHING BUILT-IN-PLACE MANHOLES OR FURNISHING PREFABRICATED MANHOLES



FOOTING TREATMENT IN DUMP DISPOSAL SITES
 NO SCALE

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
10-16-72 TRANSIT AND TRAFFIC MANHOLE	KIMBLE, WARD, STONE & ASSOC., INC. AND MAY, DRON & ASSOC. INC. CONSULTING ENGINEERS 841 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY: J.V.J. CHECKED BY: J.V.J. F.A.P. NO. 1-95-4136/38 S.E.C. NO. BC 246-33-815 BALTO. CITY NO. 1595
		SCALE: AS SHOWN	DES. BY: A.L. CHK. BY: J.L.C. SHEET NO. (92) T-4 T-15

FEED ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	T-5	(92) T-15



TYPICAL PRELIMINARY EMBANKMENT

AT ABUTMENTS FOR VIADUCTS
NORTH OF HERRING RUN

- STA. 402+31.40 N.B.R.
- STA. 402+31.18 S.B.R.
- STA. 27+71.12 RAMP 'A'
- STA. 504+54.76 RAMP 'E'

Not To Scale

TYPICAL DUMP REMOVAL & DISPOSAL

SCALE: HORIZ. 1"=40'
VERT. 1"=10'

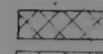
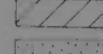
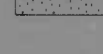
REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNOERLE, BENDER, STONE & ASSOC. INC. AND MATZ, CHILDS & ASSOC. INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY K.H. TRACED BY F.W. F.A.P. NO. I-95-4(36)36 S.R.C. NO. B.C.246-33-615 BALTO. CITY NO. 1995
		SCALE: As Shown	DES. BY K.H. CHK. BY J.L.C. SHEET NO. (92) T-5 of T-15

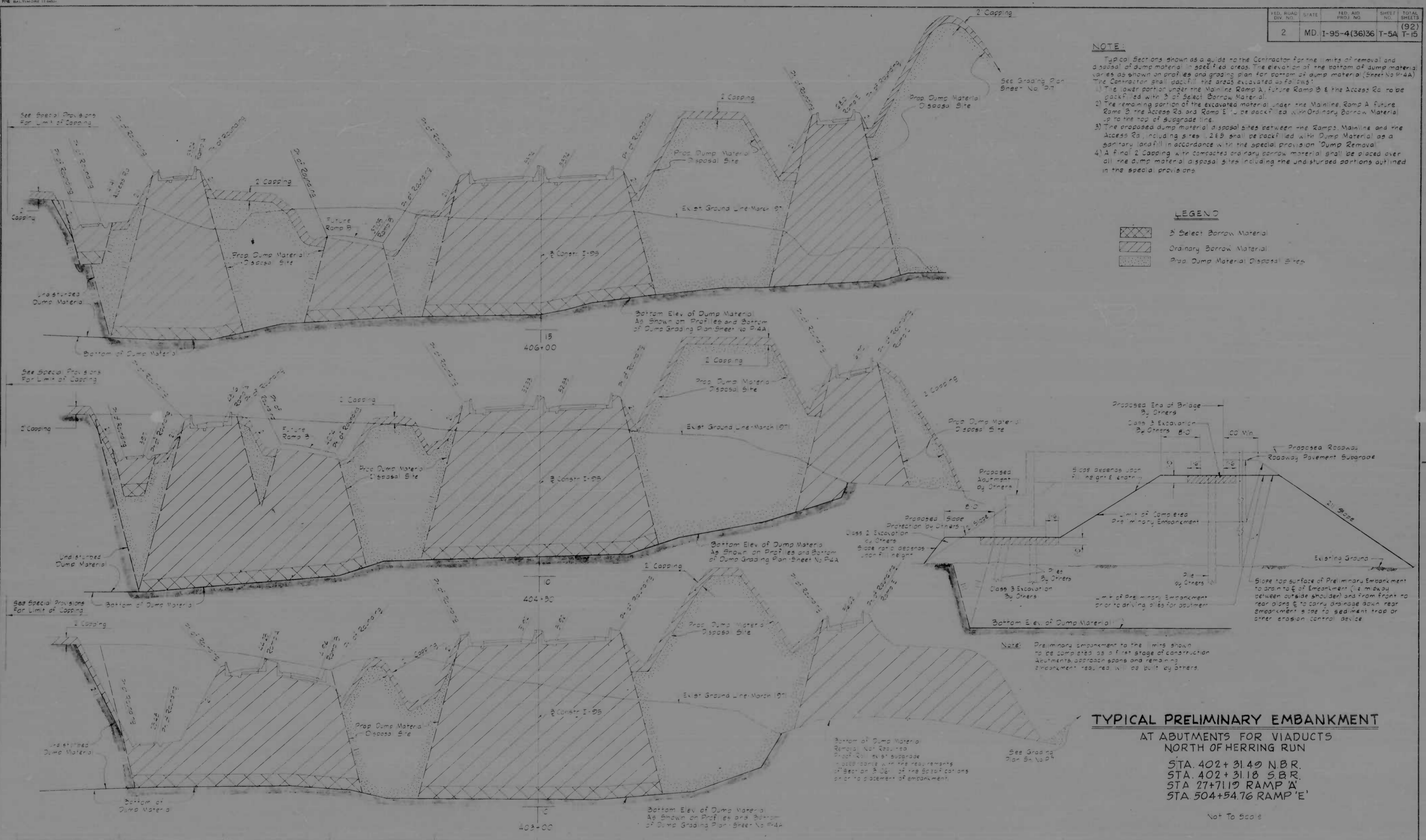
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD	I-95-4(36)36	T-5A	(92) T-15

NOTE

- Typical Sections shown as a guide to the Contractor for the limits of removal and disposal of dump material in specified areas. The elevation of the bottom of dump material varies as shown on profiles and grading plan for bottom of dump material (Sheet No. P-4A). The Contractor shall packfill the areas excavated as follows:
- 1) The lower portion under the Mainline Ramp A, Future Ramp B & the Access Rd. to be packfilled with 3 of Select Borrow Material.
 - 2) The remaining portion of the excavated material under the Mainline Ramp A, Future Ramp B, the Access Rd. and Ramp E' to be packfilled with Ordinary Borrow Material up to the top of subgrade line.
 - 3) The proposed dump material disposal sites between the Ramps Mainline and the Access Rd. including sites 245 shall be packfilled with Dump Material as a sanitary landfill in accordance with the special provision 'Dump Removal'.
 - 4) A final 2' Capping with compacted ordinary borrow material shall be placed over all the dump material disposal sites including the undisturbed portions outlined in the special provisions.

LEGEND

-  Select Borrow Material
-  Ordinary Borrow Material
-  Prop. Dump Material Disposal Sites



TYPICAL PRELIMINARY EMBANKMENT
 AT ABUTMENTS FOR VIADUCTS
 NORTH OF HERRING RUN
 STA. 402+31.40 N.B.R.
 STA. 402+31.18 S.B.R.
 STA. 27+71.17 RAMP 'A'
 STA. 504+54.76 RAMP 'E'
 Not To Scale

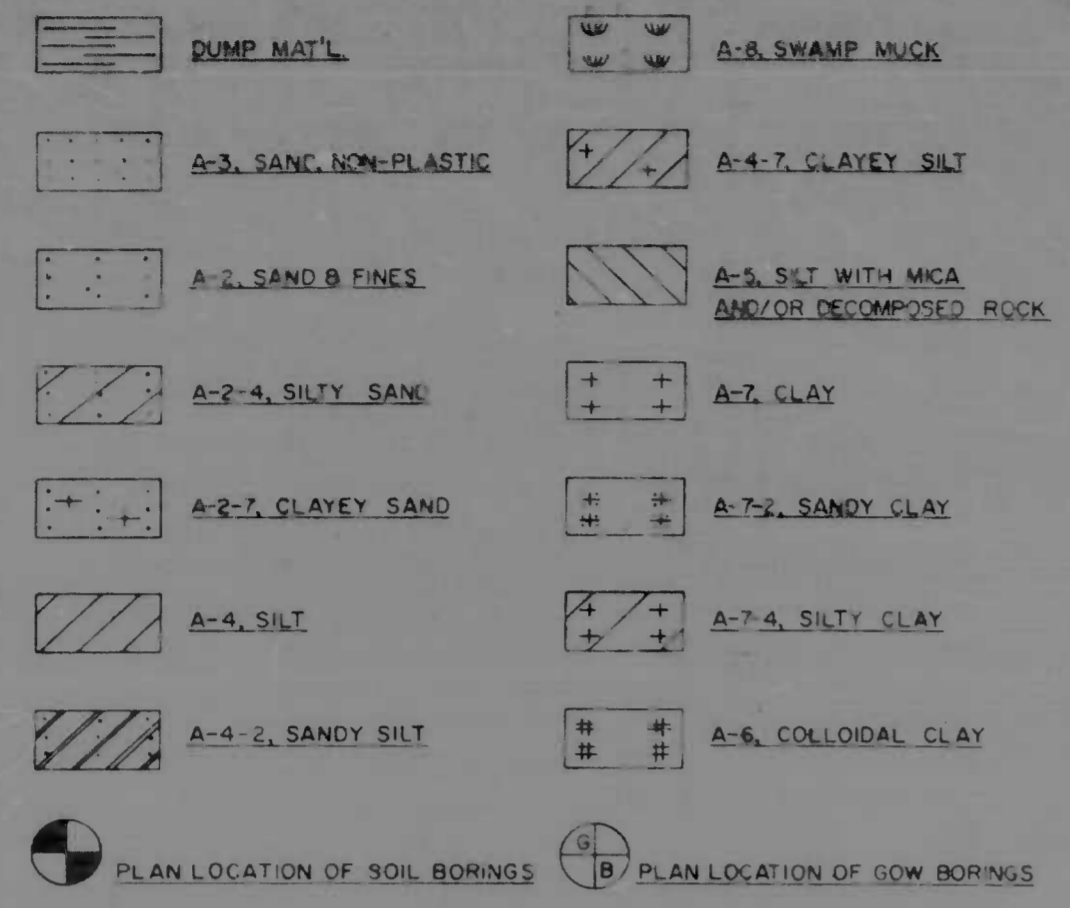
TYPICAL DUMP REMOVAL & DISPOSAL

SCALE: HORIZ 1"=40'
 VERT 1"=10'

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
1. Approved by S. J. G. 10/1/95 Delete 5/1/95 T-5 Add New 10/5/95 T-3A		INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B. & O. RAILROAD	DRAWN BY: K.H. TRACED BY: F.W. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC.246-33-815 BALTO. CITY NO. 1995
		DESIGN BY: K.H. CHECK BY: J.L.C.	SHEET NO. (92) T-5A T-15

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	T-6	192

SOIL LEGEND

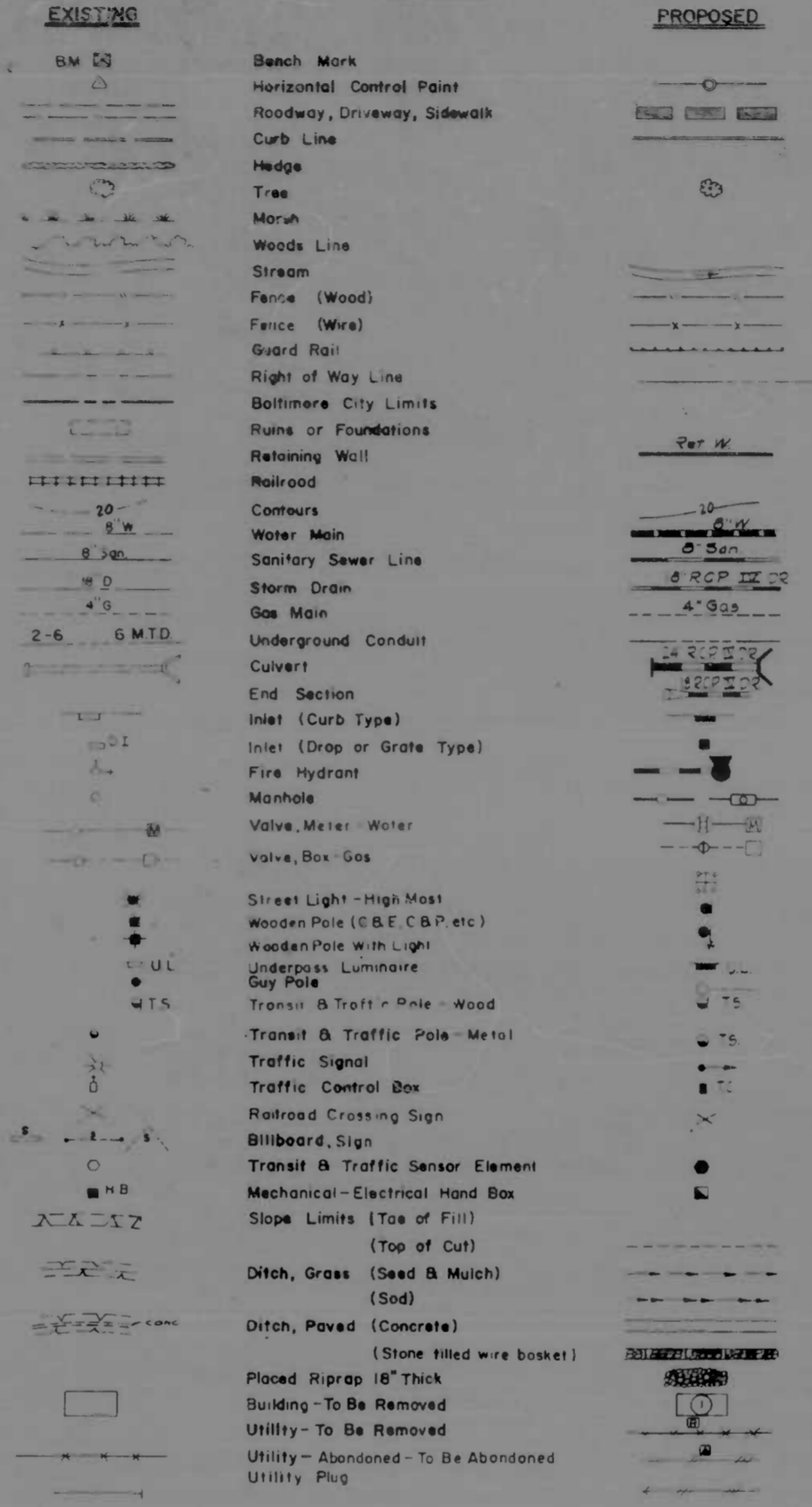


PLAN LOCATION OF SOIL BORINGS
 PLAN LOCATION OF GOW BORINGS
 IN-PLACE DRY DENSITY (DEPTH)
 PCF @ % MOISTURE (DATE)
 PROFILE VERTICAL SCALE X 10
 LL - LIQUID LIMIT PI - PLASTICITY INDEX NP - NON PLASTIC
 M.D.D. B.O.M.C. - MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT AS DETERMINED BY A.A.S.H.O. DESIGNATION 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 (10/68 & 1/69-2/69)
 BORING DATA FOR STRUCTURES IS INDICATED ON RESPECTIVE PLAN SHEETS.

ABBREVIATIONS

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

LEGEND



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.

INVERT ELEVATIONS
 All Invert Elevations are Approximate and May be Modified to Meet Conditions Encountered During Installation of Underground Facilities.

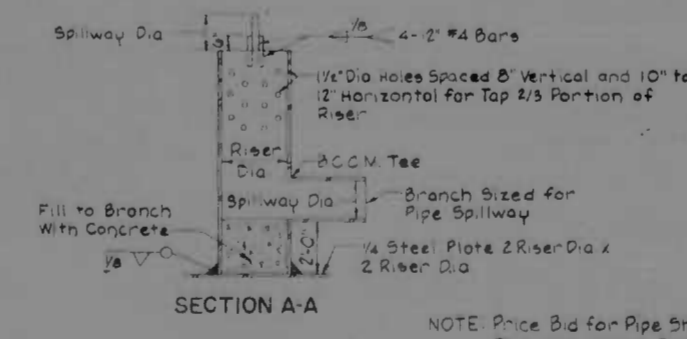
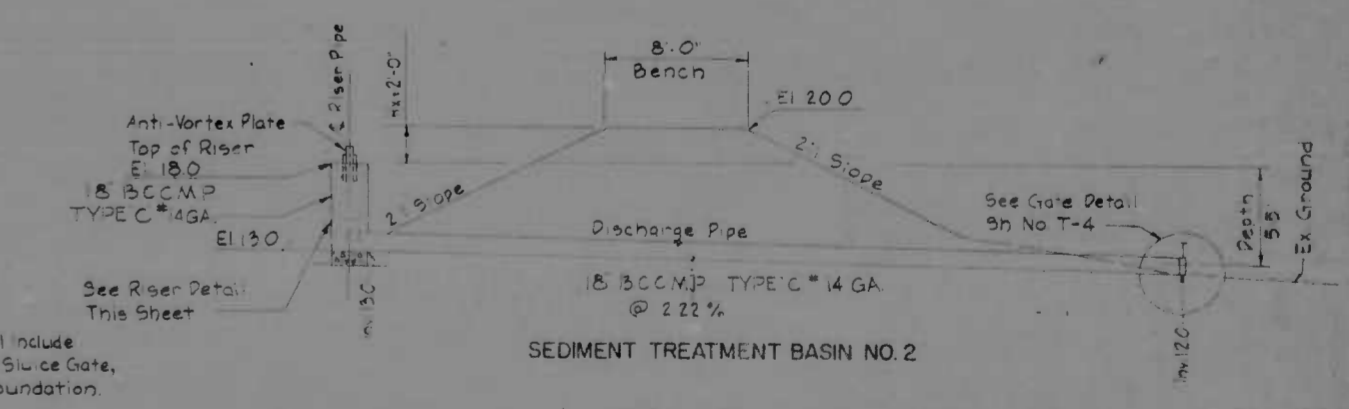
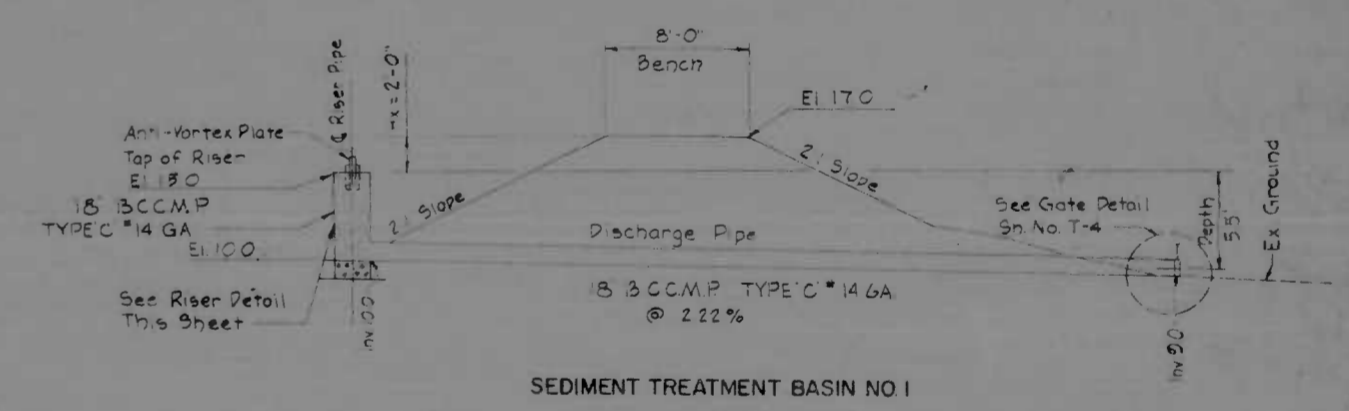
SIGHT DISTANCE
 Stopping Sight Distance For Crest Vertical Curves is Based on a Height of Object = 0.33' and a Height of Eye = 3.0'. Headlight Sight Distance For Sag Vertical Curves is Based on a Height of Headlight = 2.0' and an Upward Divergence of Beam = 1".

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 Clearing Limits are Staked in the Field and Approved by the Engineer. No Clearing Will be Allowed Beyond Construction Limits. Clearing limits are to be staked in the field by the Contractor.

DRAINAGE STRUCTURES
 The Locations and Inverts of The Drainage Structures Are Subject to Modification as May be Required by Field Conditions, as Directed by The Engineer.

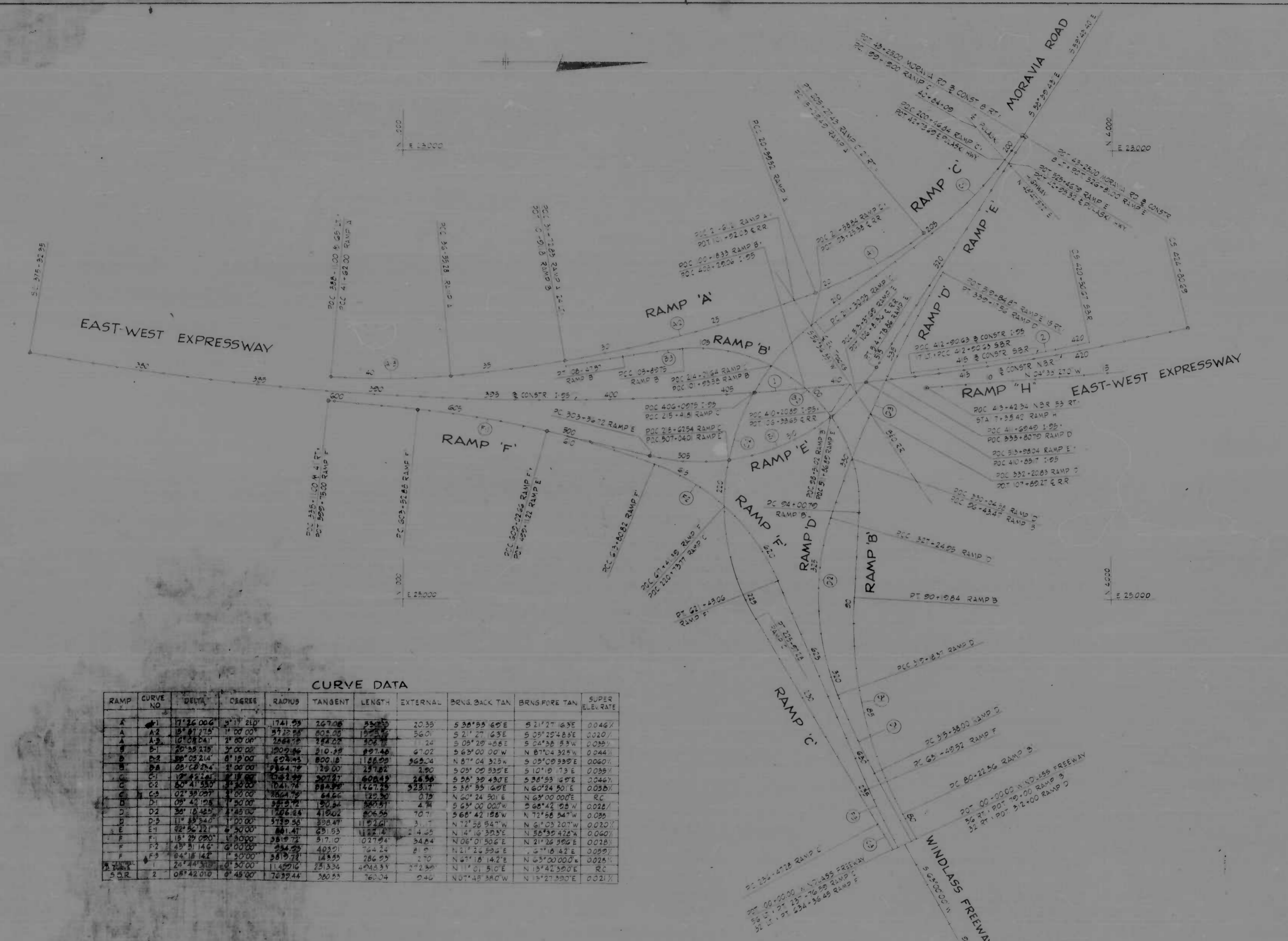


RISER DETAIL
NO SCALE

TEMPORARY PIPE & RISER AT SEDIMENT TREATMENT BASINS
NO SCALE

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	EMPELLE, BEERCO, STONE & ASSOC., INC. AND MATZ, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21202	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY: J.R.W./PDD TRACED BY: J.R.W. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC246-33-815 BALTO. CITY NO. 1995
		SCALE: N89P	DATE: _____ DES. BY: J.L.C. CHK. BY: R.W.C. SHEET NO. 192 T-6 of T-19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	MD.	I-95-4(36)36	T-7	(92) T-15



CURVE DATA

RAMP	CURVE NO.	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	BRNS. BACK TAN.	BRNS. FORE TAN.	SUPER ELEV. RATE
A	A-1	17° 26' 00"	17.43	1741.59	267.08	550.00	20.35	5 30° 55' 60"	5 21° 27' 43"	0.046%
A	A-2	15° 31' 21"	15.52	1802.00	152.50	360.00	36.01	5 21° 27' 43"	5 05° 25' 48"	0.020%
A	A-3	10° 08' 24"	10.14	2584.75	722.02	302.00	11.24	5 05° 25' 48"	5 04° 38' 53"	0.039%
B	B-1	72° 55' 21"	72.92	1902.00	210.38	897.50	67.02	5 05° 00' 00" W	N 87° 04' 33" W	0.044%
B	B-2	86° 03' 21"	86.06	800.18	1168.50	365.00	187.04	5 05° 00' 00" W	S 05° 09' 39" E	0.060%
B	B-3	86° 03' 21"	86.06	800.18	1168.50	365.00	187.04	5 05° 00' 00" W	S 10° 10' 13" E	0.035%
C	C-1	12° 42' 21"	12.70	3072.71	608.49	24.50	5 26° 39' 49"	5 36° 53' 16"	N 60° 24' 30" E	0.046%
C	C-2	50° 41' 53"	50.70	1041.94	884.99	1407.25	528.17	5 36° 39' 49"	N 60° 24' 30" E	0.030%
C	C-3	02° 39' 27"	2.66	3854.77	84.66	125.50	0.75	N 60° 24' 30" E	N 63° 00' 00" E	RC
D	D-1	09° 23' 12"	9.38	3715.72	80.54	389.71	4.74	5 05° 00' 00" W	S 68° 42' 08" W	0.026%
D	D-2	30° 10' 42"	30.18	1708.24	415.02	626.55	70.71	5 66° 42' 08" W	N 72° 56' 34" W	0.039%
D	D-3	11° 33' 54"	11.56	3739.58	338.47	1152.41	3.17	N 72° 56' 34" W	N 61° 03' 20" W	0.030%
E	E-1	22° 56' 12"	22.93	801.41	65.53	112.41	2.45	N 41° 16' 32" E	N 56° 39' 42" W	0.040%
F	F-1	15° 29' 09"	15.48	3819.72	57.07	027.94	34.64	N 06° 01' 50" E	N 21° 26' 39" E	0.028%
F	F-2	45° 31' 14"	45.52	954.05	409.51	76.24	8.65	N 21° 26' 39" E	S 71° 16' 42" E	0.039%
F	F-3	64° 18' 14"	64.30	5819.72	145.59	286.53	2.10	N 21° 26' 39" E	N 63° 00' 00" E	0.026%
H	H-1	24° 24' 31"	24.41	11429.10	251.34	272.30	11.01	N 11° 01' 50" E	N 37° 42' 39" E	RC
S.R.	2	08° 42' 01"	8.70	7639.44	360.53	760.04	0.46	N 07° 45' 30" W	N 37° 42' 39" E	0.021%

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KHOURLI, BENDER, STONE & ASSOC., INC. AND MATZ, O'NEALS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B&O RAILROAD	DRAWN BY: F.W. TRACED BY: F.W. F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 246-33-815 BALTO. CITY NO. 1995
		SCALE: 1" = 200'	DES. BY: T.E.L. CHK. BY: J.L.C. SHEET NO. (92) T-7 of T-15

COORDINATE TABLE

LOC	CURVE	POINT	STATION	COORDINATES		TANGENT BEARING
				NORTH	EAST	
CONSTR ISSUE NBR	#1	SC	375+32.85	377.449	23,002.019	N 11°01'30"E
		POC	388+11.00	388.610	24,076.213	
		P	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
		POC	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
		POC	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
		POC	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
		POC	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
		POC	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
		POC	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
		POC	400+48.70 (CENTRAL CURVE)	388.430	24,382.911	
SBR	A	POC	410+00.00 NBR 17 LT	3,160.189	23,001.032	N 71°45'38.0"W
		P	410+00.00 (CENTRAL CURVE)	3,160.189	23,001.032	
		CS	410+00.00	3,160.189	23,001.032	
MORAVIA	CONSTR	POC	42+25.00 (BREAK POINT)	3,830.221	22,595.121	S 59°43'40.0"E
		POC	43+25.00	3,830.221	22,595.121	
WINDLASS	FREEMWAY	POC	100+00.00	3,128.333	23,093.000	S 64°00'00.0"W
		POC	100+00.00	3,128.333	23,093.000	
PULASKI	HWY	POC	40+84.00	3,420.078	23,000.628	N 43°47'37.2"E
		POC	42+75.00 POC 200+48.84 C	3,544.000	23,000.286	
		POC	42+75.00 POC 323+46.70 E	3,550.217	23,000.580	
		POC	43+00.00	3,560.208	23,000.080	
RAMP A	A-1	PT	205+27.43 RAMP C 2 RT	3,203.87	23,371.608	S 33°53'10"E
		P	17+06.57	2,005.305	23,500.279	
		POC	20+39.82	2,746.734	23,636.966	
		POC	21+61.21 POC 104+92.02 C RR	2,69,764	23,673,319	
		P	28+62.60	1,900.301	23,930.702	
	A-2	POC	31+71.83 24 LT 110+51.6 B	1,677.642	23,004.253	S 08°28'48"E
		POC	36+55.88	1,900.301	24,007.63	
		P	38+00.34	2,47,050	24,003,964	
	A-3	POC	41+00.00 1/2 ALT	603.866	24,011.426	S 04°38'51"W
		POC	42+00.00 1/2 ALT	603.866	24,011.426	

LOC	CURVE	POINT	STATION	COORDINATES		TANGENT BEARING
				NORTH	EAST	
RAMP B	B-1	POC	100+00.00 WINDLASS FREEMWAY	3,128.333	23,093.000	S 64°00'00.0"W
		POC	80+22.30	3,128.333	23,093.000	
		P	85+32.75	2,887.032	23,603.789	
		P	90+00.00	2,019.671	24,004.000	
		POC	92+00.00	2,033.05	24,000.000	
		POC	90+48.47 POC 330+04.88 D	2,033.05	24,000.000	
		POC	90+48.47 POC 330+04.88 D	2,033.05	24,000.000	
		P	102+00.00	2,033.05	24,000.000	
		POC	101+93.88 POC 214+00.00 C	2,033.05	24,000.000	
		POC	108+80.75	2,177.000	23,860.500	
B-2	P	107+14.73	2,046.924	23,850.13	S 08°10'00"E	
	P	108+17.57	1,901.612	23,901.226		
	POC	110+00.00 1/2 ALT	1,901.612	23,901.226		
B-3	POC	108+80.75	2,177.000	23,860.500	S 08°10'00"E	
	POC	108+80.75	2,177.000	23,860.500		
RAMP C	C-1	POC	43+25.00 1/2 CONSTR MORAVIA RD	3,830.221	22,595.121	S 59°43'40.0"E
		POC	100+00.00	3,128.333	23,093.000	
		P	102+26.27	3,455.946	23,000.000	
		P	102+26.27	3,455.946	23,000.000	
		P	102+26.27	3,455.946	23,000.000	
		P	102+26.27	3,455.946	23,000.000	
		P	102+26.27	3,455.946	23,000.000	
		P	102+26.27	3,455.946	23,000.000	
		P	102+26.27	3,455.946	23,000.000	
		P	102+26.27	3,455.946	23,000.000	
C-2	POC	211+30.05	2,747.301	23,766.278	S 33°33'40"E	
	POC	211+30.05	2,747.301	23,766.278		
	POC	211+30.05	2,747.301	23,766.278		
	POC	211+30.05	2,747.301	23,766.278		
C-3	P	220+30.04	2,033.05	24,000.000	N 60°24'30"E	
	P	220+30.04	2,033.05	24,000.000		
	P	220+30.04	2,033.05	24,000.000		
RAMP D	D-1	POC	100+00.00 WINDLASS FREEMWAY	3,128.333	23,093.000	S 64°00'00.0"W
		POC	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
		P	31 RT 1 POC 32+00.00 RAMP D	3,128.333	23,093.000	
D-2	POC	330+04.88 POC 96+43.47 B	2,033.05	24,000.000	N 72°58'34"W	
	POC	330+04.88 POC 96+43.47 B	2,033.05	24,000.000		
	POC	330+04.88 POC 96+43.47 B	2,033.05	24,000.000		
D-3	POC	330+04.88 POC 96+43.47 B	2,033.05	24,000.000	N 61°08'20"W	
	POC	330+04.88 POC 96+43.47 B	2,033.05	24,000.000		

CURVE	POINT	STATION	COORDINATES		TANGENT BEARING	
			NORTH	EAST		
RAMP E	E-1	POC	608+02.66 RAMP F	1,601.196	24,288.622	N 41°16'30"E
		POC	408+11.22 RAMP E	1,601.196	24,288.622	
		P	503+56.72	2,033.05	24,000.000	
		POC	503+56.72	2,033.05	24,000.000	
		P	503+56.72	2,033.05	24,000.000	
		P	503+56.72	2,033.05	24,000.000	
		P	503+56.72	2,033.05	24,000.000	
		P	503+56.72	2,033.05	24,000.000	
		P	503+56.72	2,033.05	24,000.000	
		P	503+56.72	2,033.05	24,000.000	
RAMP F	F-1	POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	N 58°30'42"W
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
		POC	311+86.89 POC 28+51.00 B	2,033.05	24,000.000	
RAMP G	G-1	POC	368+11.00 1/2-54 RT	3,830.221	22,595.121	N 06°01'50"E
		POC	368+11.00 1/2-54 RT	3,830.221	22,595.121	
		P	408+00.00	3,575.300	24,211.06	
		POC	608+02.66 POC 408+11.22 E	1,601.196	24,288.622	
		POC	608+02.66 POC 408+11.22 E	1,601.196	24,288.622	
		P	607+41.30 POC 220+73.77 C	2,330.676	24,500.000	
		P	607+41.30 POC 220+73.77 C	2,330.676	24,500.000	
		P	607+41.30 POC 220+73.77 C	2,330.676	24,500.000	
		P	607+41.30 POC 220+73.77 C	2,330.676	24,500.000	
		P	607+41.30 POC 220+73.77 C	2,330.676	24,500.000	
RAMP H	H-1	POC	43+25.00 1/2 ALT	603.866	24,011.426	N 04°33'27"W
		POC	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
		P	43+25.00 1/2 ALT	603.866	24,011.426	
RAMP I	I-1	POC	211+30.05	2,747.301	23,766.278	N 56°36'35"E
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	
		POC	211+30.05	2,747.301	23,766.278	

REVISIONS	CONSULTANT	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS	STATE ROADS COMMISSION OF MARYLAND INTERSTATE DIVISION FOR BALTIMORE CITY
	KNORRLE, BENDER, STONE & ASSOC., INC. AND MATT, CHILDS & ASSOC., INC. CONSULTING ENGINEERS 341 N. CALVERT STREET BALTIMORE, MARYLAND 21201	INTERSTATE ROUTE 95 FROM NORTH OF HERRING RUN TO NORTH OF B & O RAILROAD	DRAWN BY: FW TRACED BY: FW F.A.P. NO. I-95-4(36)36 S.R.C. NO. BC 248-33-815 BALTO. CITY NO. 1995
		SCALE: N.O.P.S.	DATE:
			DES. BY: TEL CHK. BY: J.L.G. SHEET NO. (92) T-8 OF T-15



MAIN LINE
POC STA 411+69.49



RAMP A
POC STA 21+61.21



RAMP C
PC STA 199+19.00



RAMP E
PC STA 503+56.72



RAMP E
POT STA 526+81.00



MAINLINE
POC STA 410+85.17



RAMP A
POC STA 20+52.52



RAMP B
POT STA 110+91.18



RAMP E
POT STA 499+11.22



RAMP E
POT STA 519+84.87



MAINLINE
POC STA 410+20.89



RAMP A
PC STA 15+29.49



RAMP B
PT STA 108+47.57



RAMP D
PT STA 335+17.56



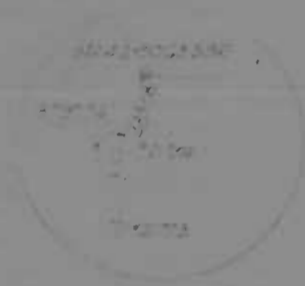
RAMP E
PT STA 514+78.86



MORAVIA RD
POT STA 43+25.00



MAINLINE
POC STA 408+29.06



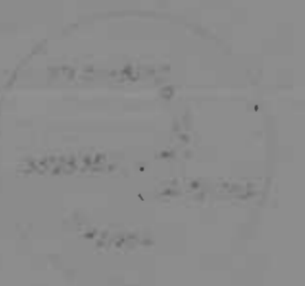
MAINLINE
PC STA 412+90.63 SDR



RAMP B
POC STA 105+89.75



RAMP C
PC STA 211+30.05



RAMP E
POC STA 511+86.89



RAMP H
POT STA 7+35.42



MAINLINE
POC STA 406+09.75



MAINLINE
POC STA 412+90.63 NBR



RAMP A
POC STA 31+72.83



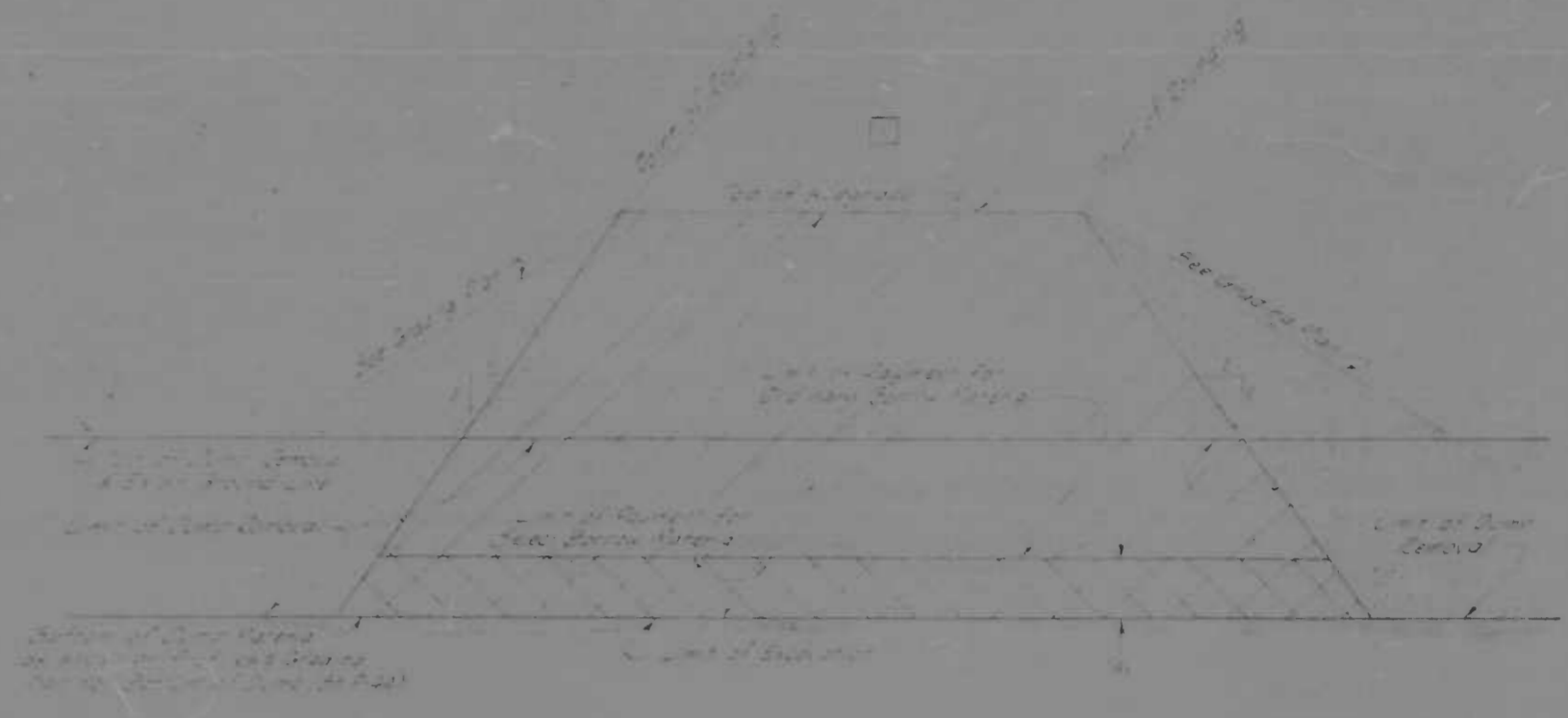
RAMP C
PT STA 205+27.43



RAMP E
POC STA 507+04.01



RAMP F
POC STA 613+80.82



LIMITS OF DUMP REMOVAL

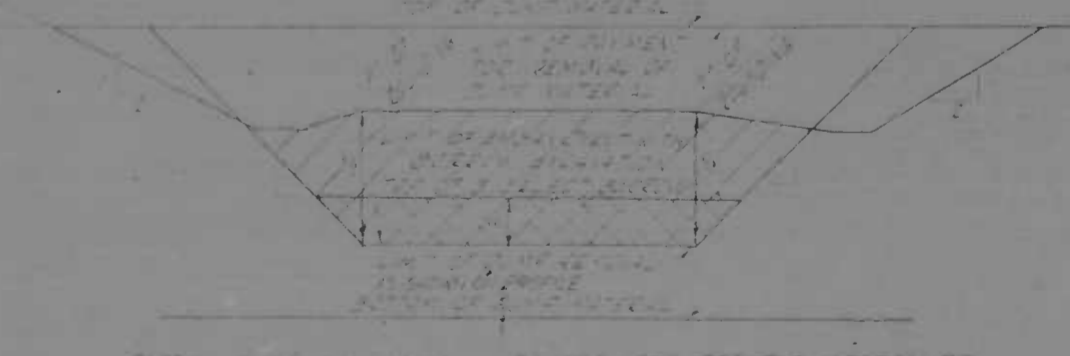
MAINLINE
STATIONING FROM POC TO POT
REMOVE DUMP WITHIN SHOWN LIMITS

RAMP A
STATIONING FROM POC TO POT
REMOVE DUMP WITHIN SHOWN LIMITS

RAMP B
STATIONING FROM POC TO POT
REMOVE DUMP WITHIN SHOWN LIMITS

RAMP E
STATIONING FROM POC TO POT
REMOVE DUMP WITHIN SHOWN LIMITS

NOTE: FOR EACH SECTION, REMOVE DUMP WITHIN SHOWN LIMITS
UNLESS OTHERWISE NOTED. SEE TYPICAL SECTION FOR
STATIONING AND SPECIAL REQUIREMENTS FOR DUMP REMOVAL.



REMOVE DUMP WITHIN SHOWN LIMITS UNLESS OTHERWISE NOTED. SEE TYPICAL SECTION FOR
STATIONING AND SPECIAL REQUIREMENTS FOR DUMP REMOVAL.

<p>REVISIONS</p> <p>1. REVISED PLAN (1/1/75)</p>	<p>CONSULTANT</p> <p>KIMBLE BENDER STONE & ASSOC. INC.</p> <p>WATT, EMBRE & ASSOC. INC.</p> <p>CONSULTING ENGINEERS</p> <p>347 N. CALVERT STREET</p> <p>BALTIMORE, MARYLAND 21201</p>	<p>CITY OF BALTIMORE</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>INTERSTATE ROUTE 95</p> <p>FROM NORTH OF HERRING RUN</p> <p>TO NORTH OF B&O RAILROAD</p> <p>SCALE: NONE</p>	<p>STATE ROAD COMMISSION OF MARYLAND</p> <p>INTERSTATE DIVISION FOR BALTIMORE CITY</p> <p>DRAWN BY: J.M.</p> <p>INSP. BY: J.M.</p> <p>FILE NO. 1-95-416136</p> <p>SHEET NO. 148-13-815</p> <p>VALID DATE: 1995</p>
		DATE:	<p>CHK BY: KH</p> <p>CHK BY: JLC</p> <p>SHEET NO. (92)</p> <p>T-9 T-15</p>

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MD	I-95-4(36)36	T-1	(92) T-15

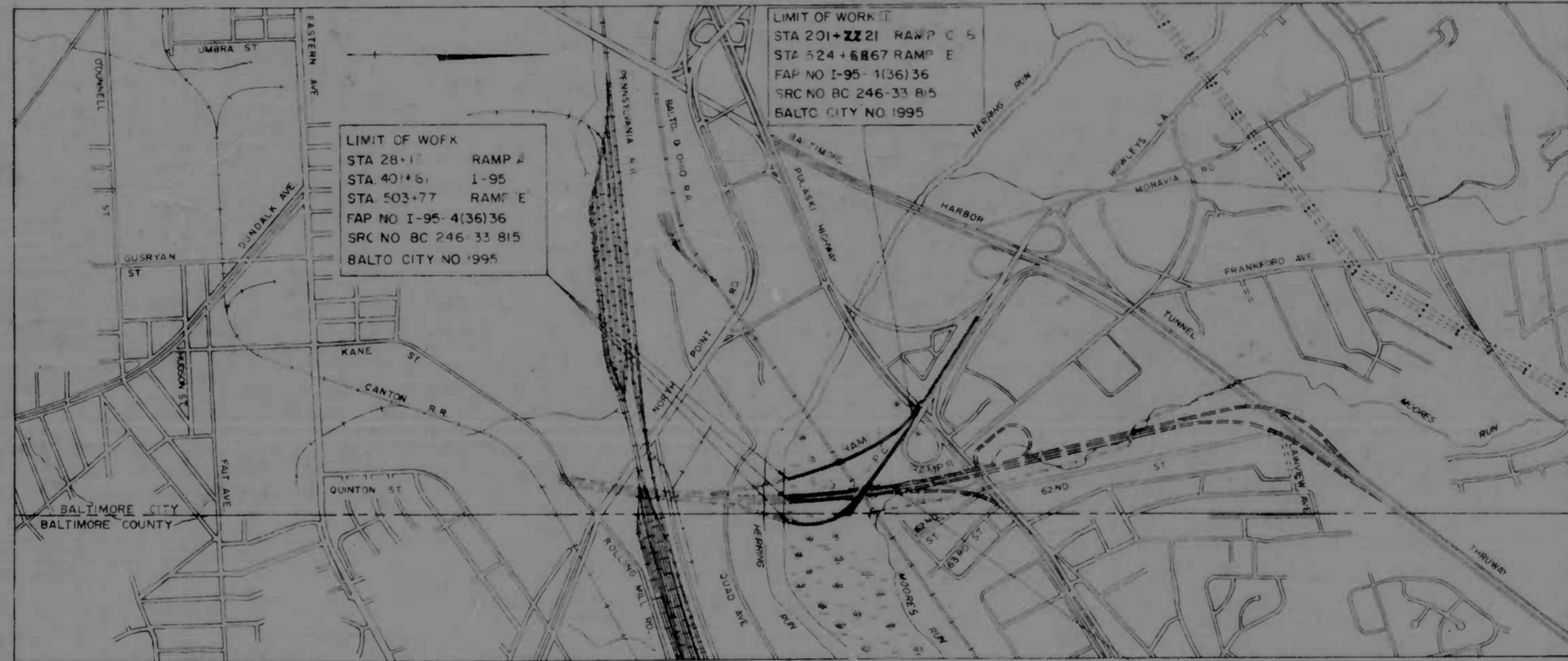
- INDEX OF SHEETS
- T-1 TITLE SHEET
 - T-2 Y-5A ROADWAY TYPICAL SECTIONS & DETAILS
 - T-6 GENERAL NOTES
 - T-7 GEOMETRY
 - T-8 COORDINATE TABLES
 - T-9 LINE REFERENCES
 - T-10 SUPERELEVATION TABLES
 - T-11-T-15 MISCELLANEOUS ROADWAY & DRAINAGE DETAILS
 - P-1 PLAN SHEET
 - I-95 STA 401+00 TO STA 408+00
 - RAMP 'A' STA 22+00 TO STA 29+00
 - FUTURE RAMP 'B' STA 100+57 TO STA 108+20
 - FUTURE RAMP 'C' STA 212+50 TO STA 222+50
 - RAMP 'E' STA 503+00 TO STA 510+50
 - FUTURE RAMP 'F' STA 612+97 TO STA 619+00
 - P-1A PLAN SHEET
 - I-95 STA 408+00 TO STA 414+00
 - RAMP 'A' STA 17+00 TO STA 22+00
 - FUTURE RAMP 'B' STA 95+00 TO STA 100+57
 - FUTURE RAMP 'C' STA 207+00 TO STA 212+50
 - FUTURE RAMP 'D' STA 328+00 TO STA 338+00
 - RAMP 'E' STA 510+50 TO STA 518+70
 - P-2A PLAN SHEET
 - I-95 STA 414+00 TO STA 420+00
 - RAMP 'A' STA 15+29.49 TO STA 17+00
 - RAMP 'C' STA 201+93 TO STA 207+00
 - RAMP 'D' STA 338+00 TO STA 339+17.56
 - RAMP 'E' STA 518+70 TO STA 523+83.50
 - P-3 PLAN SHEET
 - I-95 STA 414+00 TO STA 420+00
 - RAMP 'A' STA 15+29.49 TO STA 17+00
 - RAMP 'C' STA 201+93 TO STA 207+00
 - RAMP 'D' STA 338+00 TO STA 339+17.56
 - RAMP 'E' STA 518+70 TO STA 523+83.50
 - P-4 GRADING PLAN & JOINT LAYOUT (MATCH STA'S SHEET P-1)
 - P-4 GRADING PLAN FOR BOTTOM OF DUMP MATERIAL
 - P-5 GRADING PLAN & JOINT LAYOUT (MATCH STA'S SHEET P-2)
 - P-6 GRADING PLAN & JOINT LAYOUT (MATCH STA'S SHEET P-3)
 - P-7 GRADING PLAN FOR DUMP DISPOSAL
 - P-8 PROFILE I-95 & RAMP 'H'
 - P-9 PROFILE RAMP 'A'
 - P-10 PROFILE RAMP 'C'
 - P-11 PROFILE RAMP 'D' & ACCESS RD
 - P-12 PROFILE RAMP 'E'
 - P-13 STORM DRAIN SCHEDULE
 - P-14-P-15 STORM DRAIN PROFILES
 - STRUCTURAL DRAWINGS
 - S-1-S-9 RAMP 'A' OVER B&O RAILROAD
 - S-10-S-11 RAMP 'C' OVER RAMP 'B', 'E', 'F', I-95 & B&O RAILROAD
 - S-12-S-13 RAMP 'D' OVER RAMP 'B', I-95 & B&O RAILROAD
 - S-14-S-30 RAMP 'E' OVER RAMP 'B', I-95 & B&O RAILROAD
 - S-31-S-53 I-95 OVER RAMP 'B' & B&O RAILROAD
 - S-54 SUBSTRUCTURE DETAILS
 - S-55 SUPERSTRUCTURE DETAILS
 - S-55a to 55c
 - Q-1-Q-7 SUMMARY OF QUANTITIES

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(36)36
STATE ROADS COMMISSION PROJECT NO. BC 246-33-815
CITY OF BALTIMORE BUREAU OF ENGINEERING,
HIGHWAY ENGINEERING DIVISION CONTRACT NO. 1995

INTERSTATE ROUTE 95

FROM NORTH OF HERRING RUN
TO NORTH OF B & O RAILROAD



NOTE:
EFFECTIVE JULY 1, 1971, IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 526 OF THE 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	BENCH LEVELS
I-95-002	MAIN TRAVERSE, ANGLES & DISTANCES
I-95-011	TEST HOLE LOCATIONS
I-95-012	TEST HOLE LOCATIONS
I-95-016	TEST HOLE LOC'S, TRAVERSE & X-SECT'S
I-95-017	B&O RR SPUR, TRAVERSE
I-95-018	TEST HOLE LOCATIONS, X-SECTIONS
I-95-021	CONTROL REFERENCES

TRAFFIC DATA	
INTERSTATE 95 S PULASKI HWY	
1970 ADT	42,400
1980 ADT	84,500
1990 DHV	6,760
1990 D	60%
1990 % TRUCKS ADT	13
1990 % TRUCKS DHV	7
RAMP A	
1990 DHV	1,180
RAMP E	
1990 DHV	1,180
MAX CURVATURE	MAX GRADE
MAINLINE Dc=6°45'00"	1.273%
RAMPS Dc=6°30'00"	5.404%

RIGHT OF WAY LINES SHOWN ON THESE PLANS DO NOT INCLUDE EASEMENT. 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.

APPENDIX NO. 3, AUG 3, 1971
DELETE SHEET NOTS, ADD NEW TYPICAL SHEET NO. T-5A AND NEW GRADING PLAN SHEET NO. P-4A

REVISIONS	
1. LIMITS OF WORK	2/1/71
2. ADDITION NEW PLAN SHEETS T-4B, TYPICAL T-4A II-72	2/1/71
3. ADDITION TO PLAN SHEETS P-1A, P-1A-B, P-1A-C, P-1A-D	2/1/71

CITY OF BALTIMORE
APPROVED: *David A. Garfios*
DAVID A. GARFIOS
SEGMENTATION & EROSION CONTROL REPRESENTATIVE

INDICATES APPROXIMATE LOCATIONS OF INFORMATIONAL SIGNS
LOCATION PLAN
SCALE 1"=1000'
DESIGN SPEED **M 60 MPH**
RAMPS 45 MPH
LENGTH OF PROJECT - 0.2517 MI

LIMIT OF WORK
STA 414+90.00 I-95
STA 8+92.31 RAMP 'H'
FAP NO I-95-4(36)36
SRC NO BC 246-33-815
BALTO CITY NO 1995

CHECKED BY: BUREAU OF ENGINEERING WATER DIVISION WASTE WATER DIVISION HIGHWAY ENGINEERING DIVISION SURVEY AND RECORDS DIVISION BUREAU OF UTILITY OPERATIONS LIGHTING SECTION - HIGHWAY MAINTENANCE DIV. CONDUIT SECTION - HIGHWAY MAINTENANCE DIV.	INITIALS <i>J.W.E.</i> DATE 6-1-71	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS APPROVAL RECOMMENDED HEAD, BUREAU OF ENGINEERING APPROVED DIRECTOR OF PUBLIC WORKS	PREPARED BY KNOERLE, BENDER, STONE & ASSOCIATES, INC. AND MATZ CHILDS & ASSOCIATES, INC. CONSULTING ENGINEERS BALTIMORE, MARYLAND	BALTIMORE AND OHIO RAILROAD COMPANY REVIEWED AND APPROVED BY: <i>Thomas J. Lin</i> DATE: 6-1-71	STATE ROADS COMMISSION OF MARYLAND REVIEWED AND APPROVAL RECOMMENDED CHIEF, BUREAU OF ENGINEERING APPROVAL RECOMMENDED CHIEF, INTERSTATE DIVISION FOR BALTIMORE CITY	APPROVAL RECOMMENDED DEPUTY CHIEF ENGINEER - DEVELOPMENT APPROVED CHIEF ENGINEER	U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED DIVISION ENGINEER DATE
--	---	--	--	--	--	---	---