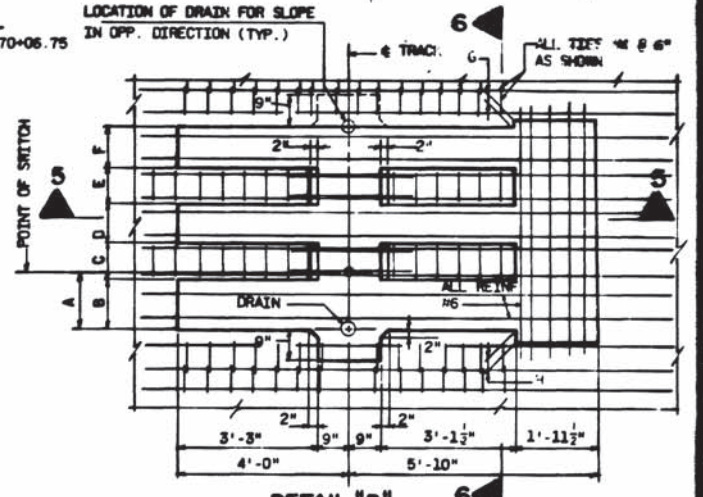
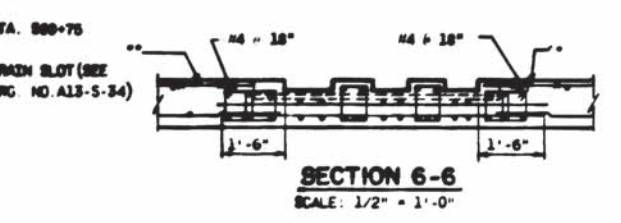
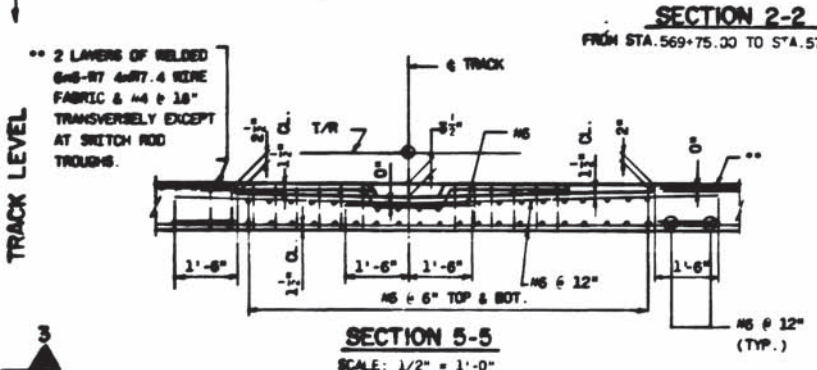
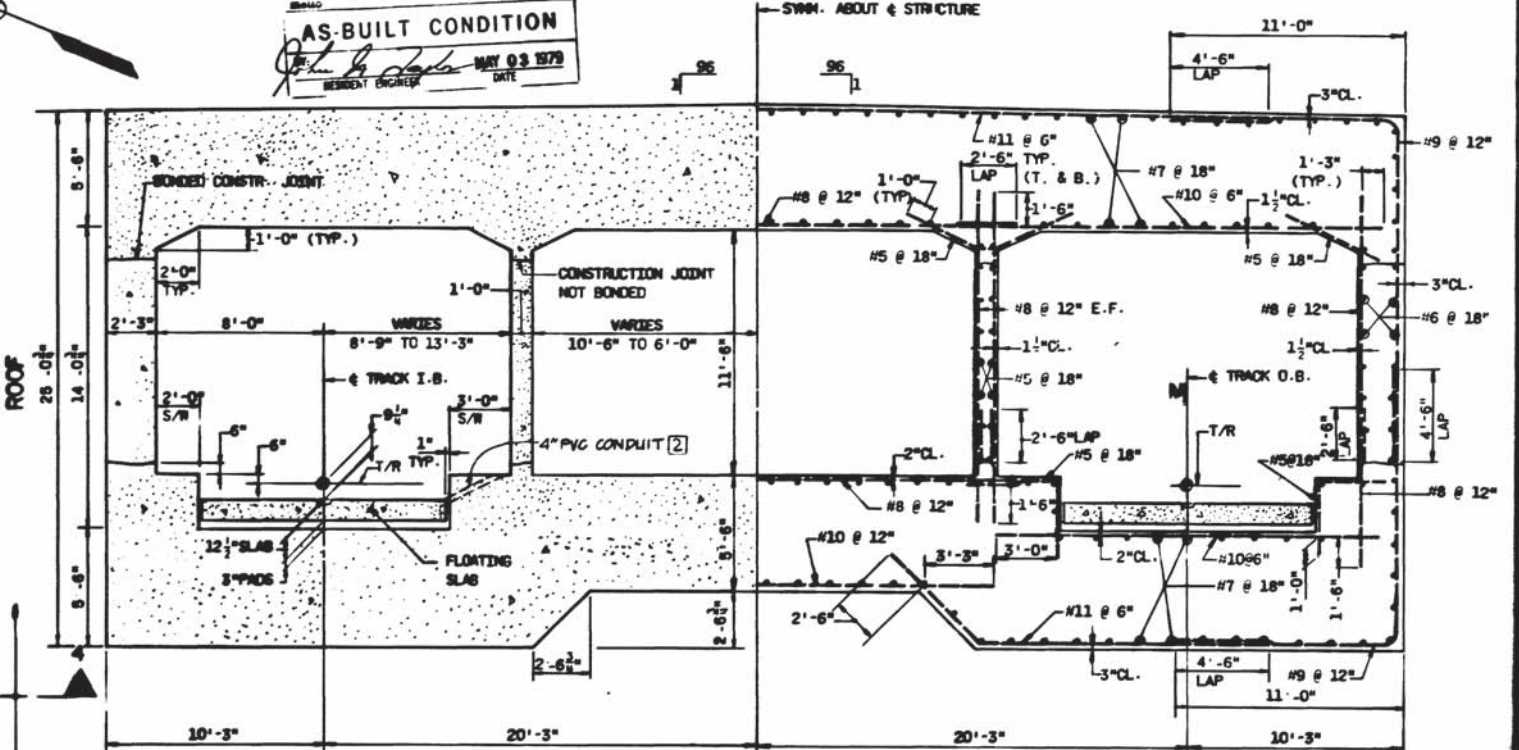
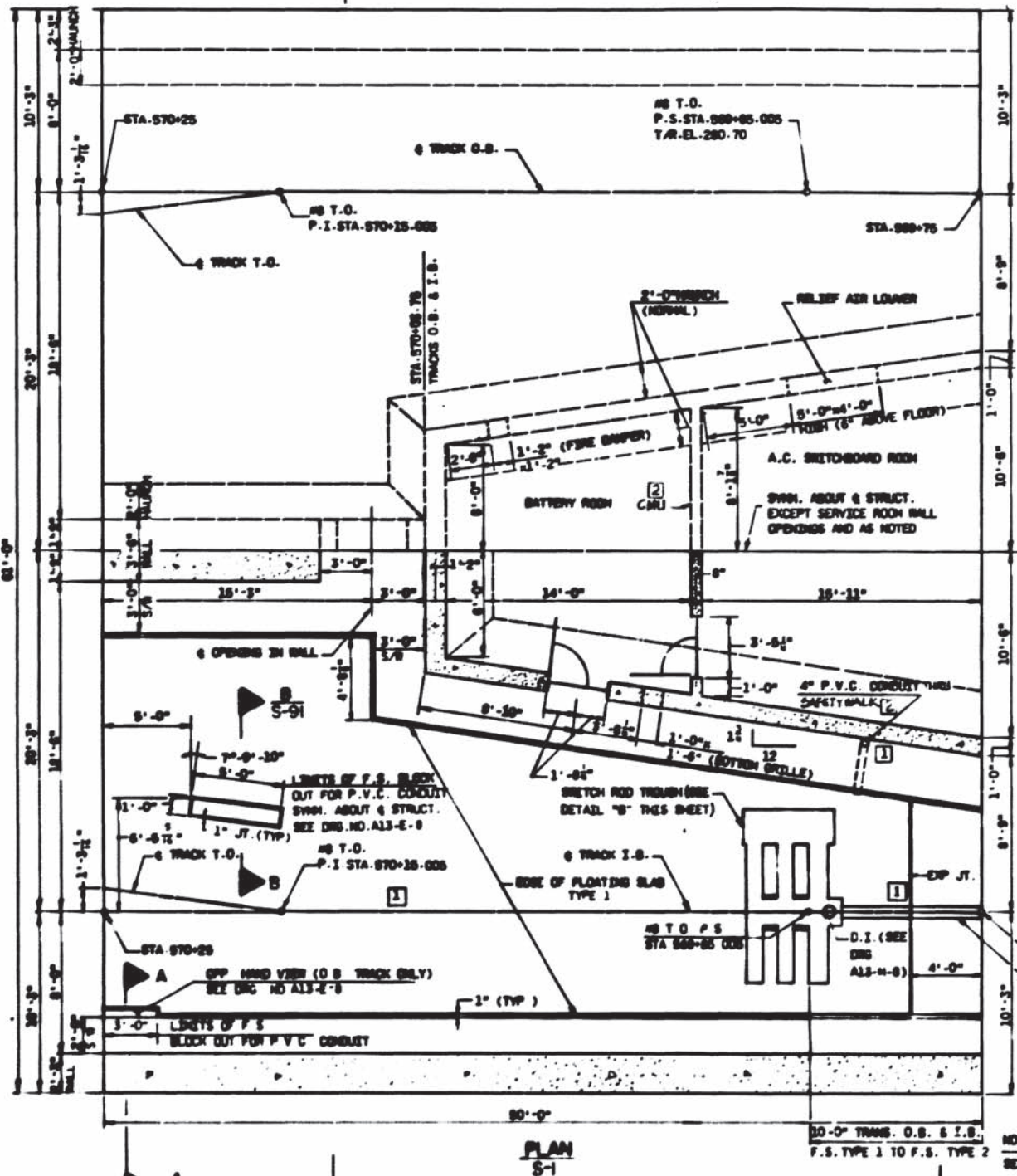


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 Resident Engineer: [Signature] DATE: MAY 03 1979



NOTE:
 SEE Dwg. NO. A13-N-2 FOR DETAILS OF OPENINGS IN WALLS.
 FOR ELECTRICAL BONDING OF REINF. STEEL SEE Dwg. NO. ST-5-7.
 FOR LOCATION OF ALL ELECTRICAL CONDUIT AND RELATED EQUIPMENT, SEE Dwg. NOS. A13-E-4, A13-E-8, A13-E-22, A13-E-8, A13-E-29, A13-E-12 AND A13-E-16.

NOTE: FOR FLOATING SLAB DETAILS SEE Dwg. NOS. A13-S-173 & A13-S-174.
 FOR WATERPROOFING DETAILS SEE Dwg. NO. ST-5-6.
 SEE ARCH. DETAILS IN Dwg. NOS. A13-A-3, A13-A-10, A13-A-13, A13-A-15, A13-A-16.

T.O. NO.	A	B	C	D	E	F	G	H
4-Y	15"	14"	9"	11"	9"	11"	7"	2"
8	14"	14"	10"	11"	10"	11"	2"	4"

DIMENSIONS OF RECESSED TROUGH FOR SWITCH RODS

NO.	DATE	BY	DESCRIPTION
1	11/17/78	C.P.L.	ISSUE DRAWING, EXP. ST. 4' P.V.C. CONDUIT & SHIFTED DRAIN SLOT PER P.C.O. 47
2	12/17/78	S.A.P.	REV. FILE FIELD COND. AD. BUILT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER: **BUCHART-HORN**
 CONSULTING ENGINEERS AND PLANNERS

DE LEIJW, CATHIER & COMPANY
 GENERAL ENGINEERING CONSULTANT

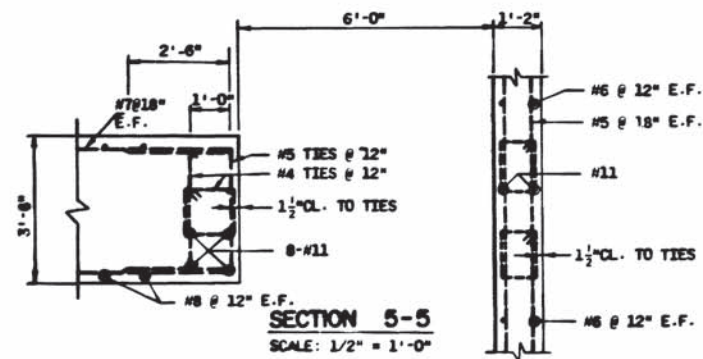
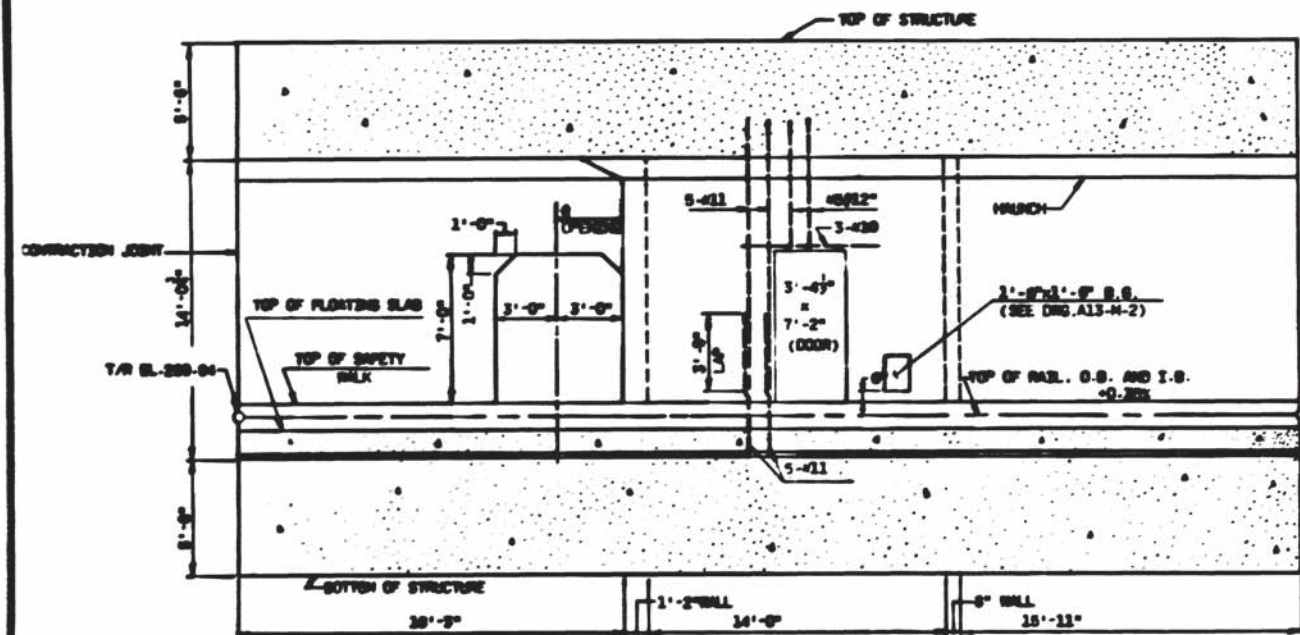
HARRY WEBER & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature] APPROVED: [Signature]

ROCKVILLE ROUTE
 CUT AND COVER STRUCTURE
 PLAN AND SECTIONS
 UNIT A5700

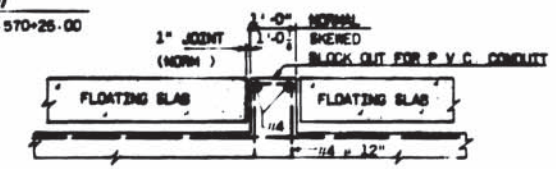
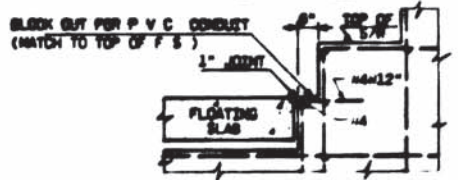
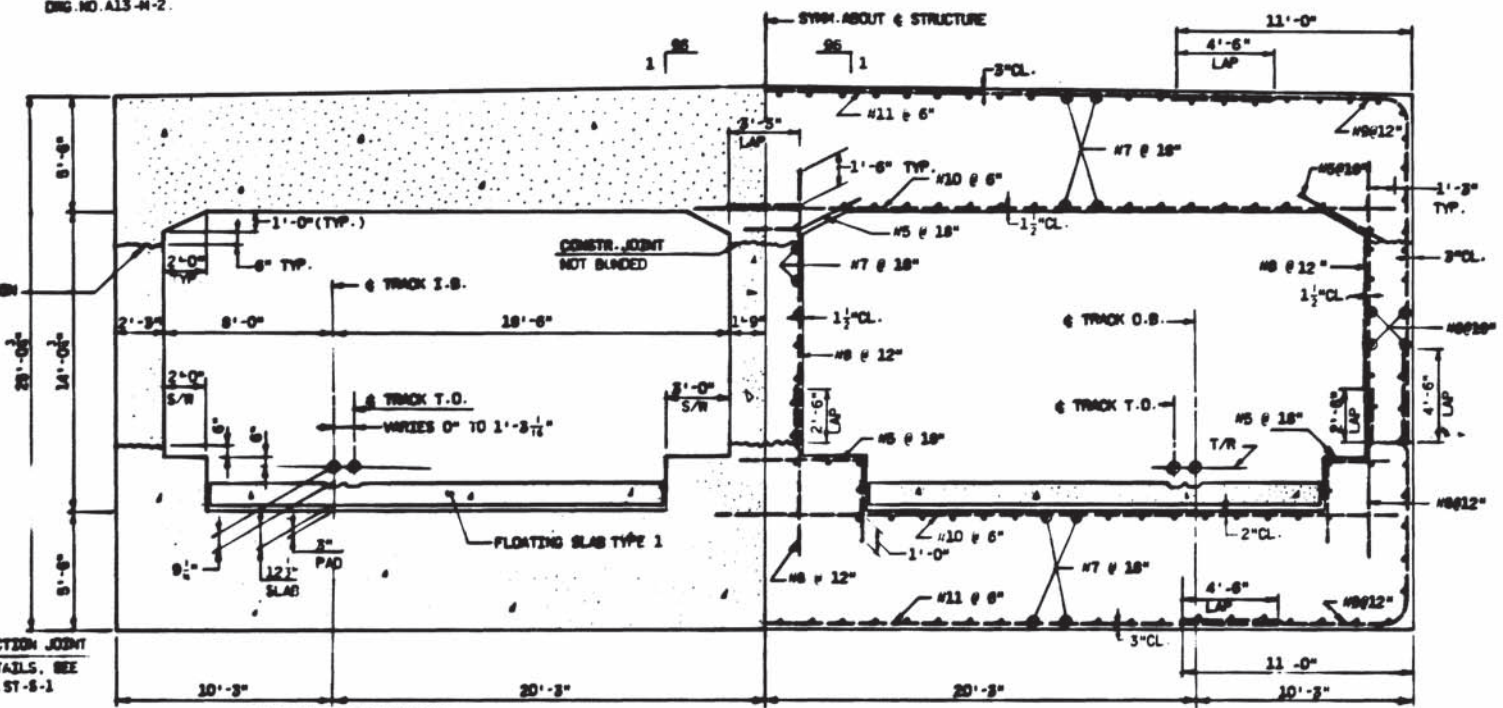
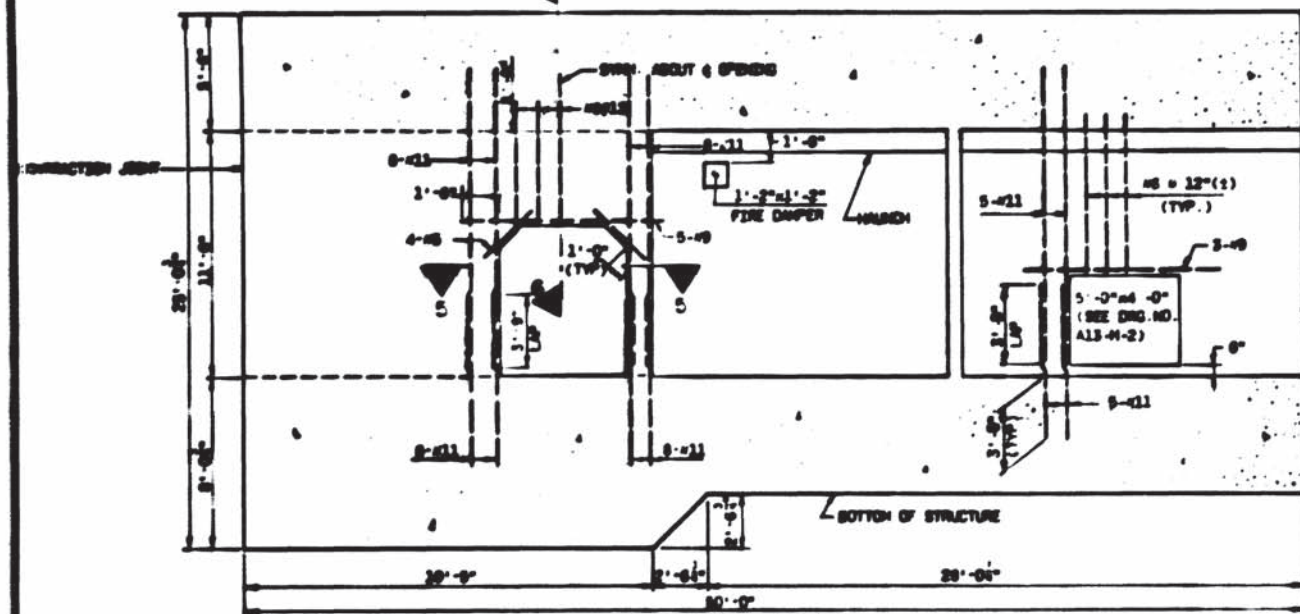
SCALE: 1/4" = 1'-0"
 AND AS NOTED

DRAWING NO. A13-S-5
 M220-234



WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
REVISION DATE
MAY 03 1979

CONSTRUCTION JOINT
FOR DETAILS SEE DRG.
NO. ST-S-1
T/R EL. 280.08
NOTE:
FOR WATERPROOFING DETAILS SEE
DRG. NO. ST-S-6.
FOR ROOM OPENING DETAILS SEE
DRG. NO. A13-N-2.



NO.	DATE	BY	DESCRIPTION
1	11/76		REV. PLAN AND ELEV.
2	11/76		PLAN AND ELEVATION WALL SECT.
3	1/77		REVISE ROOM S.T.A.C. PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHIER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WERBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature]

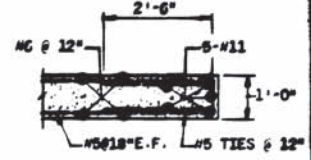
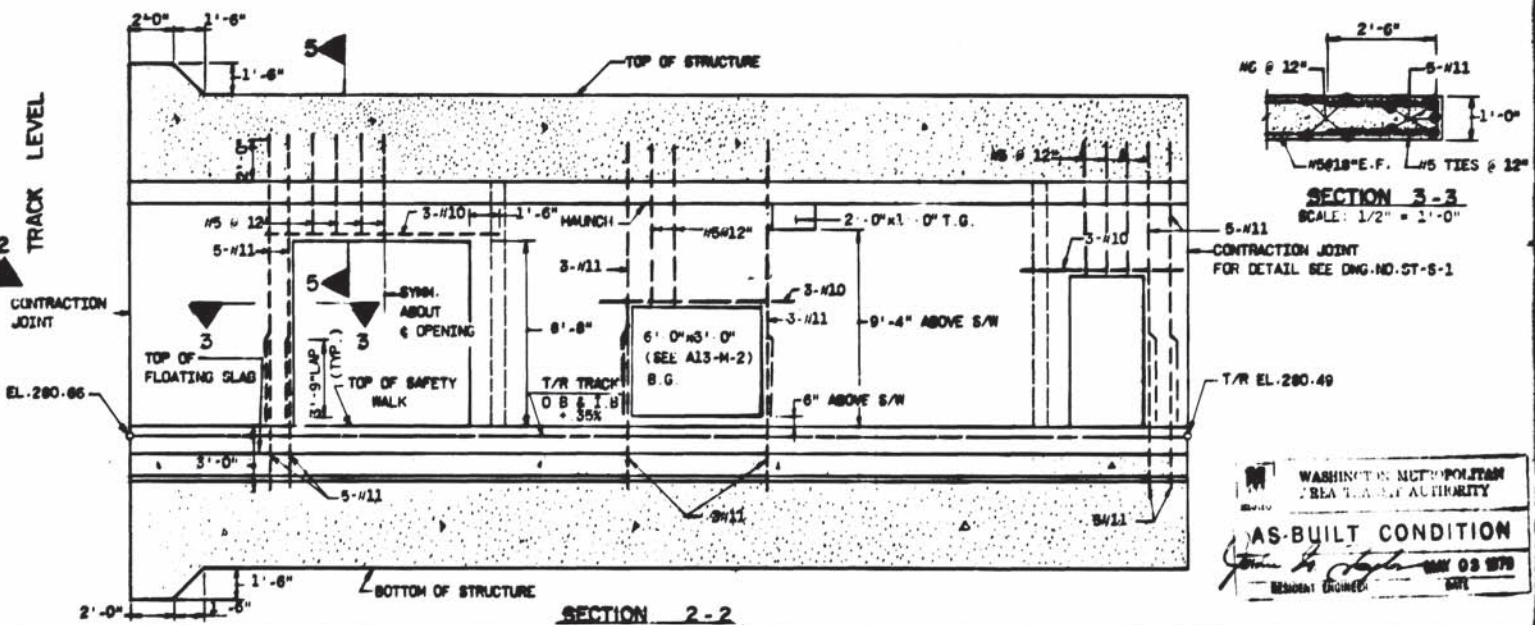
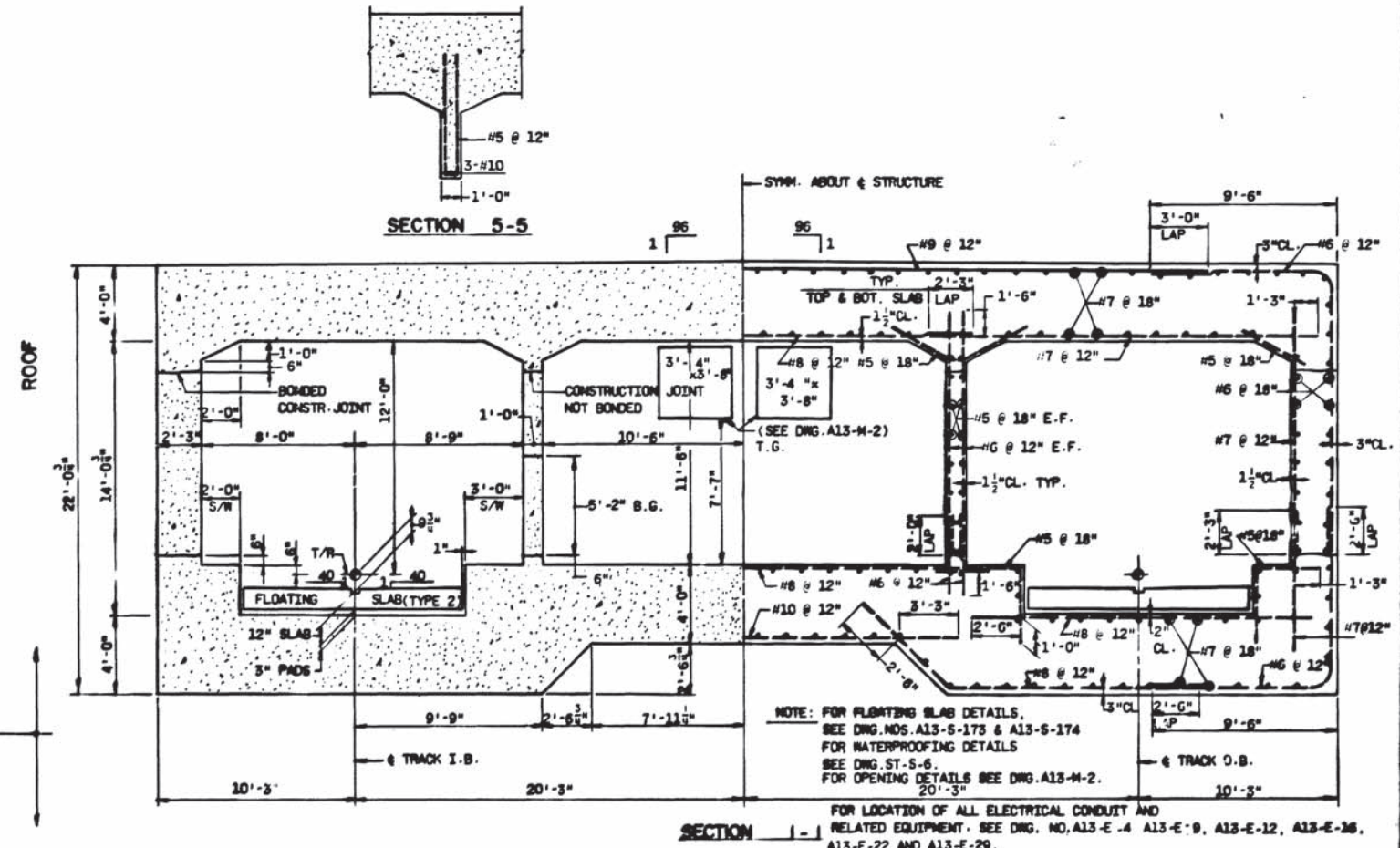
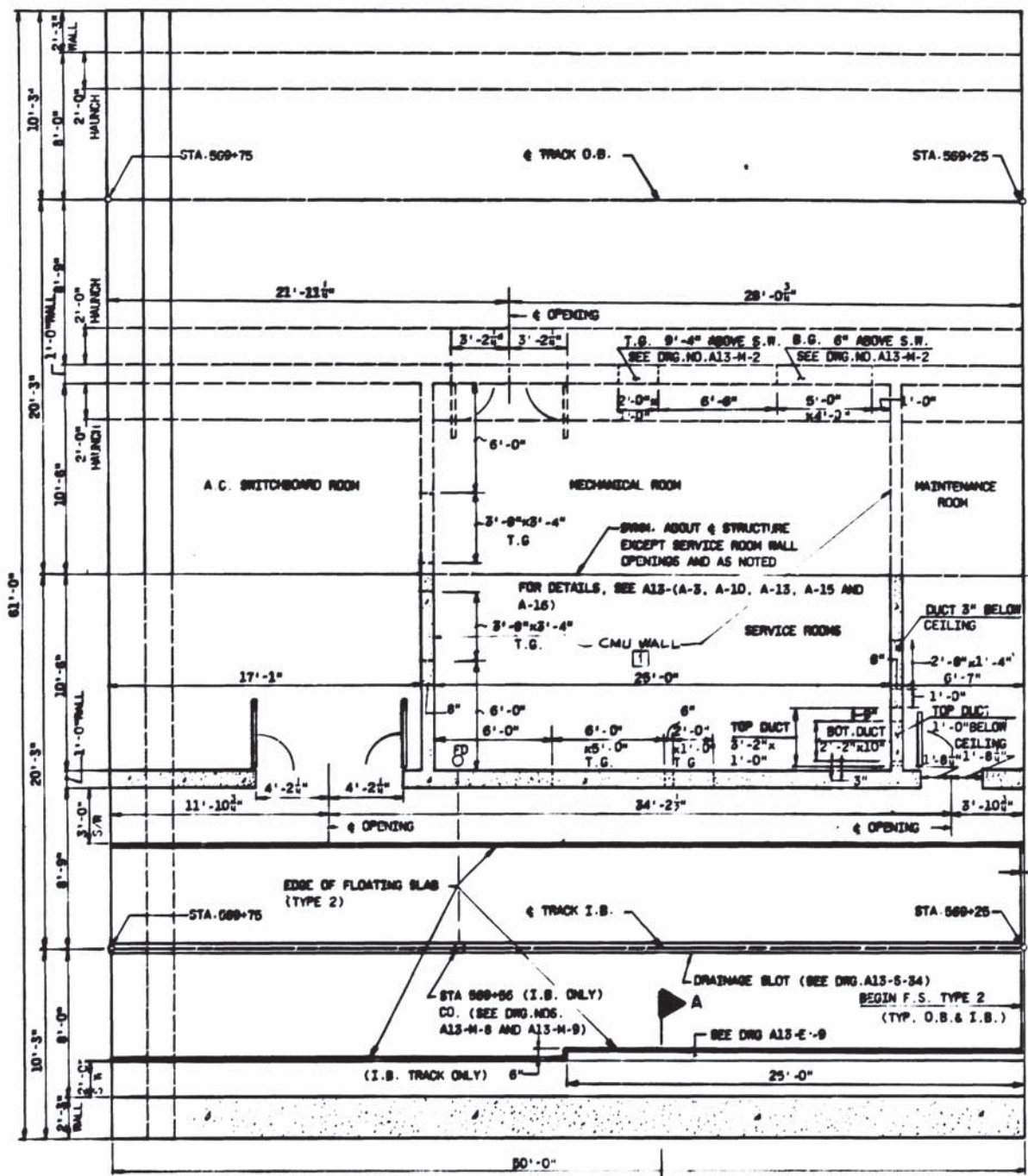
APPROVED: [Signature]

ROCKVILLE ROUTE
CUT AND COVER STRUCTURE
SECTIONS AND DETAILS
UNIT A5700

SCALE: 1/2" = 1'-0" AND AS NOTED

DRAWING NO. **A13-S-91**

M220-235



DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
J.F.H. SMITH	1/75	A13-5-88	SET PLAN AND SLAB	1/75	1. FOR THE FOLLOWING AS BUILT
J.F.H. SMITH	1/75	A13-5-88	PLAN AND SECT. UNIT ABOVE (DRAINAGE SLOT)		
T. ANDERSON	5/75	A13-5-173	FLOATING SLAB DETAILS		
		A13-5-174	FLOATING SLAB DETAILS		
		A13-5-2	SERVICE ROOMS N.V.A.C. PLAN		
		A13-5-9	SERVICE ROOMS - PLUMBING PLAN AND DETAILS		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

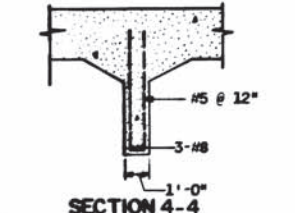
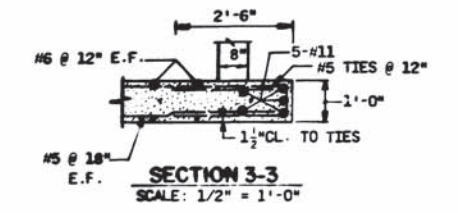
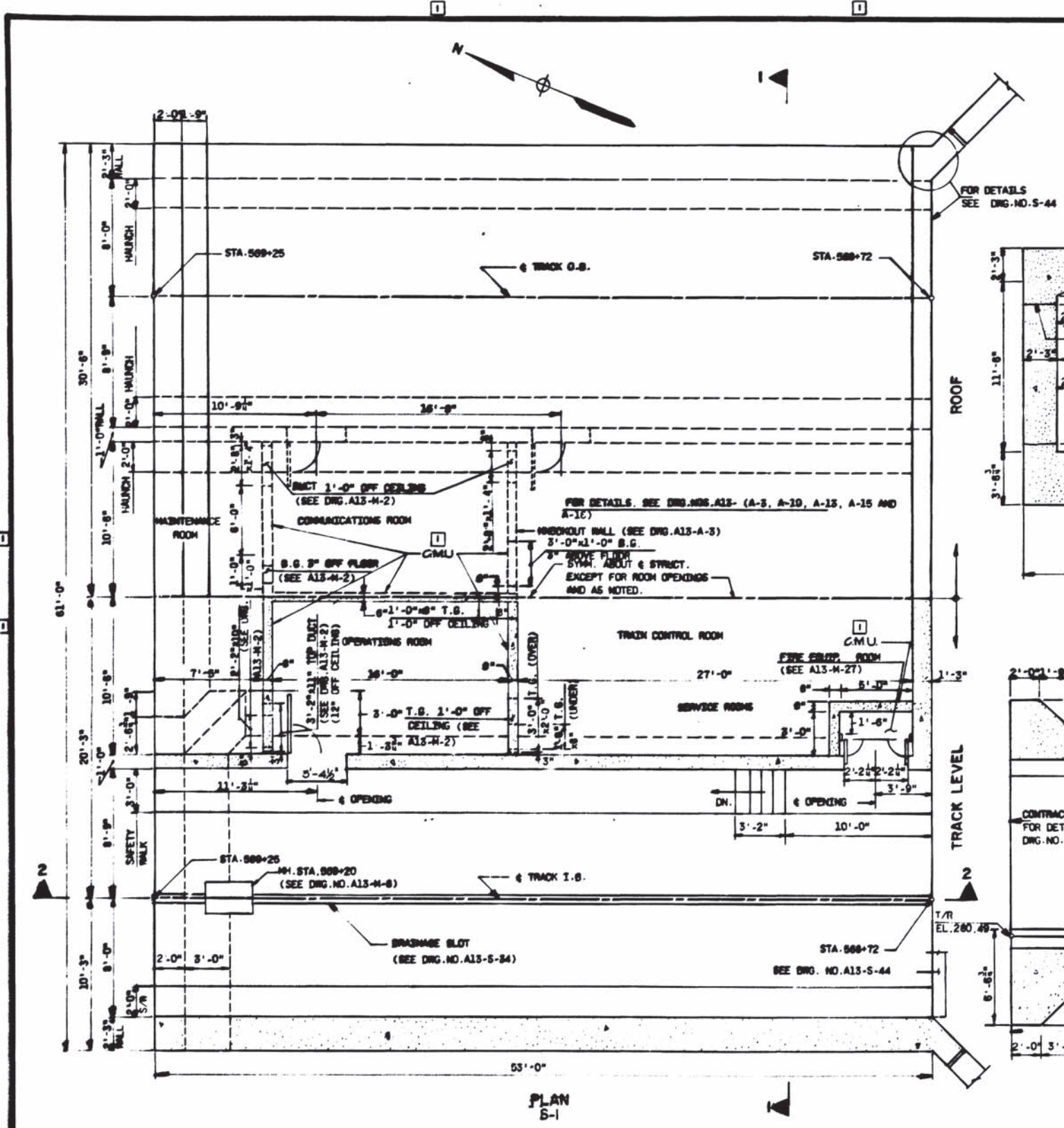
SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHNER & COMPANY
GENERAL ENGINEERING CONSULTANT

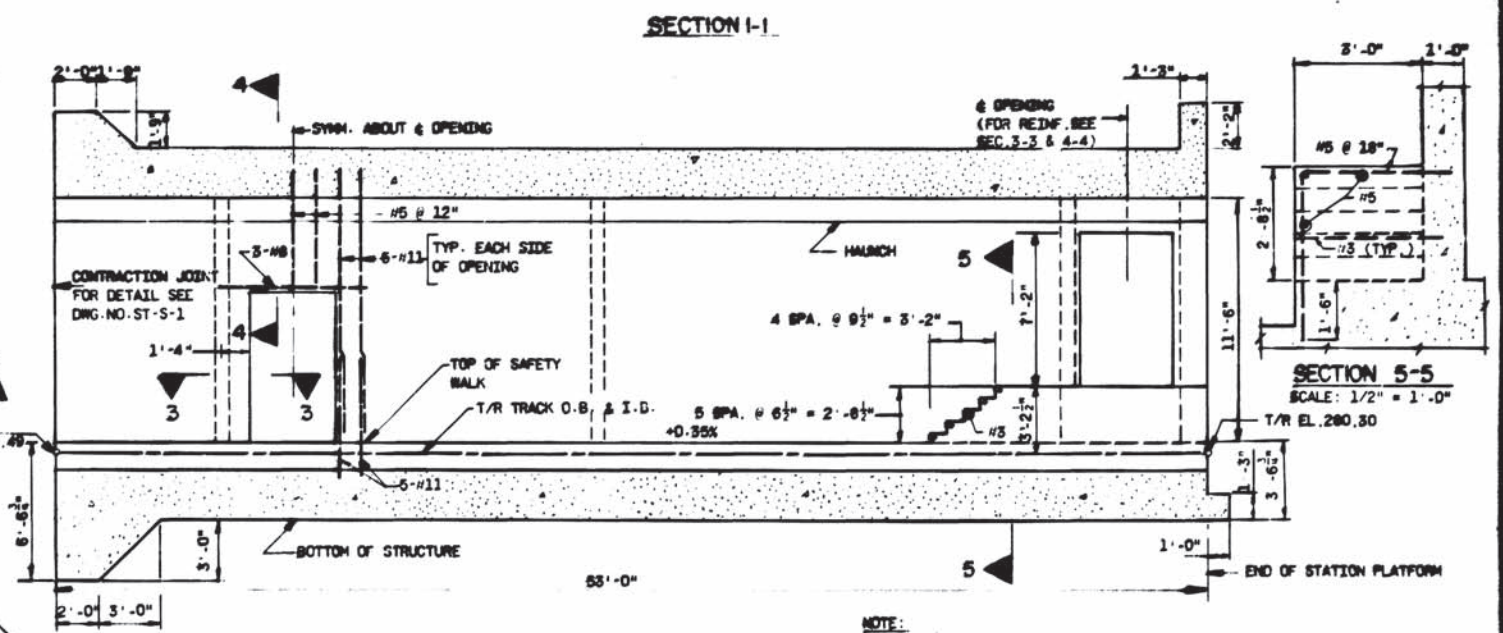
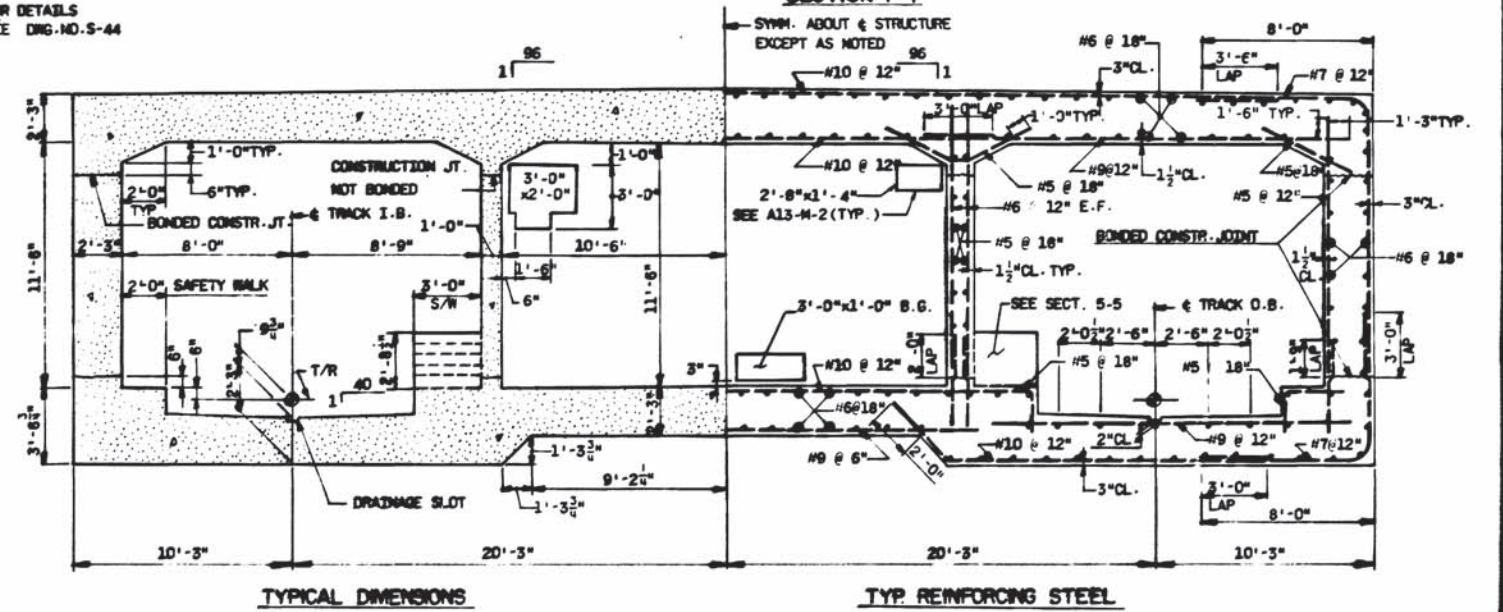
HARRY WESSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
CUT AND COVER STRUCTURE
PLAN AND SECTIONS
UNIT A5695

SCALE: 1/2" = 1'-0"
DRAWING NO: A13-S-49
M220-236



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 MAY 03 1979
 RESIDENT ENGINEER DATE



NOTE:
 FOR WATERPROOFING DETAILS SEE DRG. NO. ST-S-6.
 FOR LOCATION OF ALL ELECTRICAL CONDUIT AND RELATED EQUIPMENT, SEE DRG. NO. A13-E-4, A13-E-12, A13-E-9, A13-E-22 AND A13-E-16.
 FOR ELEC. BONDING OF REINF. STEEL SEE DRG. NO. ST-S-7.

DESIGNED	J.F.M. SMITH	11/78	REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	J.F.M. SMITH	11/78	A13-S-1	KEY PLAN AND ELEV.	7/25/79	THUY	1. REVISED PER FIELD COND. AS-BUILT
CHECKED	T. ANDREJEVSKI	7/78	A13-S-2	PARTIAL PLATFORM PLAN AND DETAILS			
APPROVED	T. ANDREJEVSKI	10/78	A13-M-2	SERVICE ROOMS N.Y.A.C. PLAN			
			A13-M-3	CUT AND COVER DRAINAGE DET. PLAN			
			A13-M-4	SERVICE ROOMS - PLUMBING PLAN AND DETAILS			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEISER & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature]

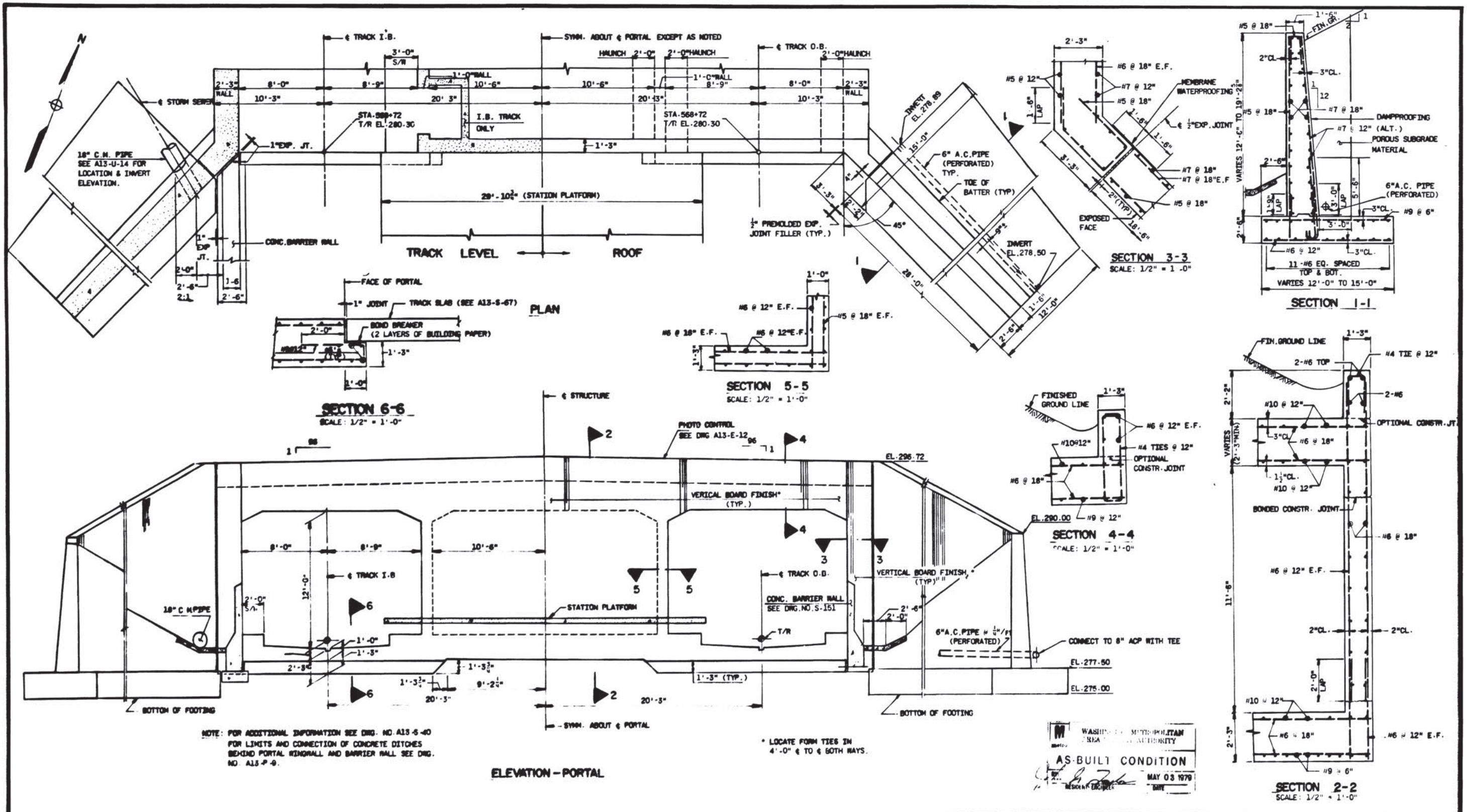
APPROVED: [Signature]

ROCKVILLE ROUTE CUT AND COVER STRUCTURE PLAN AND SECTIONS UNIT A5690

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

DRAWING NO. **A13-S-40**

M220-237



NOTE: FOR ADDITIONAL INFORMATION SEE DRG. NO. A13-S-40 FOR LIMITS AND CONNECTION OF CONCRETE DITCHES BEHIND PORTAL WINDOW AND BARRIER WALL. SEE DRG. NO. A13-P-9.

* LOCATE FORM TIES IN 4'-0" @ TO & BOTH RAYS.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 MAY 03 1970
 RESIDENT ENGINEER

DATE	NUMBER	DESCRIPTION	REVISIONS	
			DATE	BY
11/70	A13-S-1	KEY PLAN AND ELEV.		
11/70	A13-S-20	PLAN AND SECTIONS (P.1) 6000		
7/70	A13-S-3	PARTIAL PLATFORM PLAN AND DETAILS		
	A13-S-102	TYPICAL EXCAVATION DIAGRAM		
	A13-S-151	CONCRETE WALL DETAILS		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEJW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT

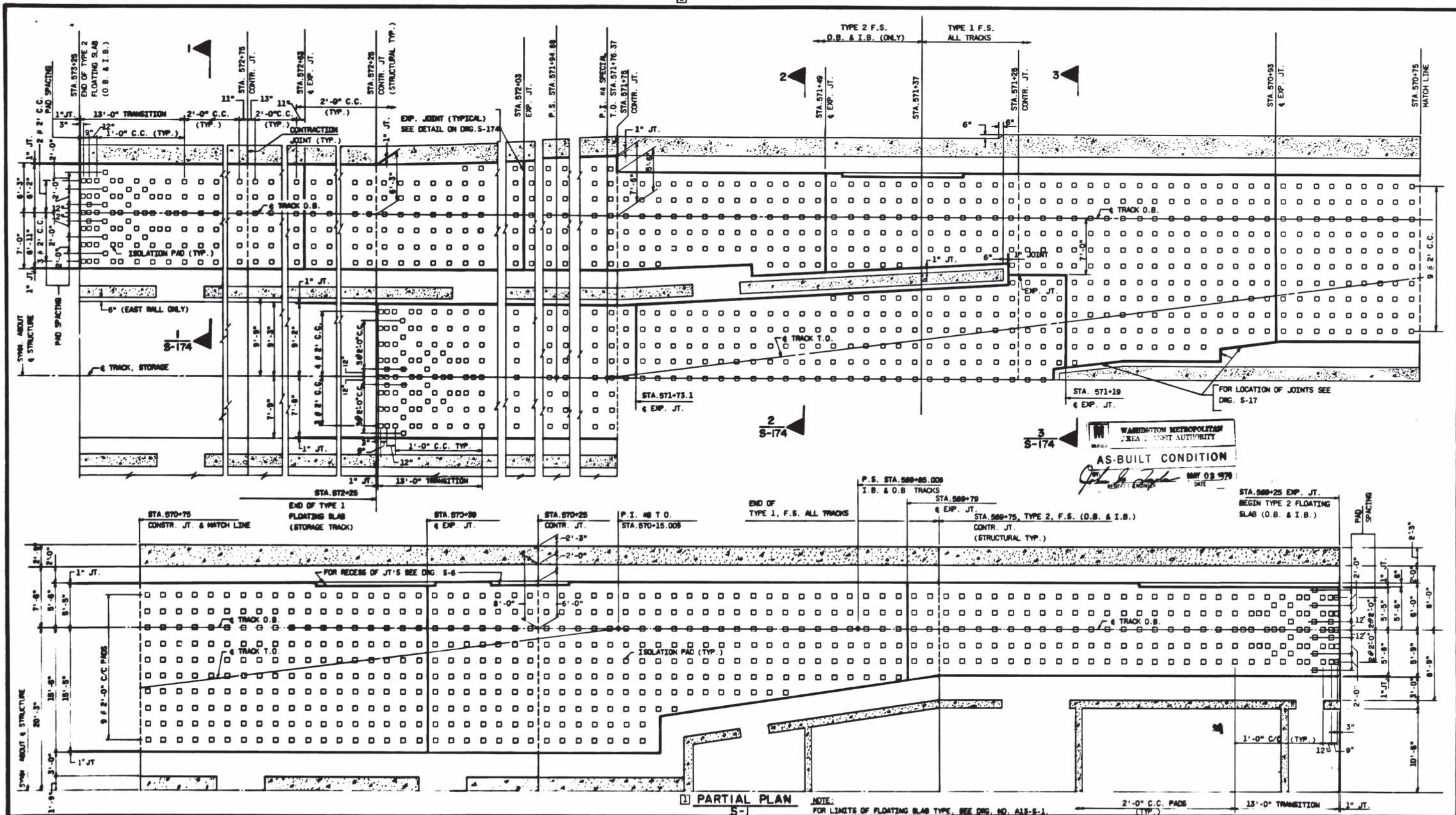
HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature]
 APPROVED: [Signature]

ROCKVILLE ROUTE
 CUT AND COVER STRUCTURE
 PORTAL PLAN AND SECTION
 UNIT A5690

SCALE: 1" = 1'-0" AND AS NOTED

DRAWING NO. **A13-S-44**
 M220-238



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 DATE: MAY 09 1979
 BY: [Signature]
 CHECKED BY: [Signature]

1 PARTIAL PLAN
 5-

NOTE:
 FOR LIMITS OF FLOATING SLAB TYPE, SEE DRG. NO. A13-S-1

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-1	KEY PLAN AND ELEVATION	10/15/76	G.P.
A13-S-173	FLOATING SLAB DETAILS		
A13-S-174	DRAINAGE DETAILS FOR FLOATING SLAB		

DATE	BY	DESCRIPTION
10/76	J.F.H.	DESIGNED
10/76	G. PARDELLI	DRAWN
10/76	CRIB LEE	CHECKED
10/76	[Signature]	APPROVED

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

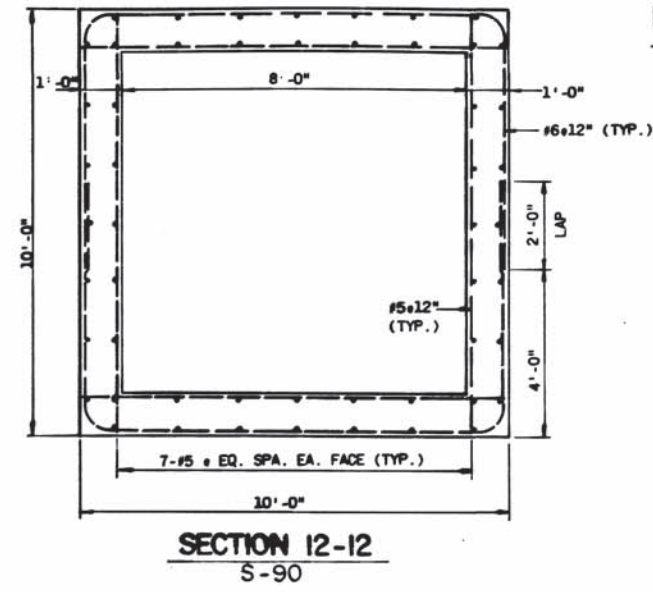
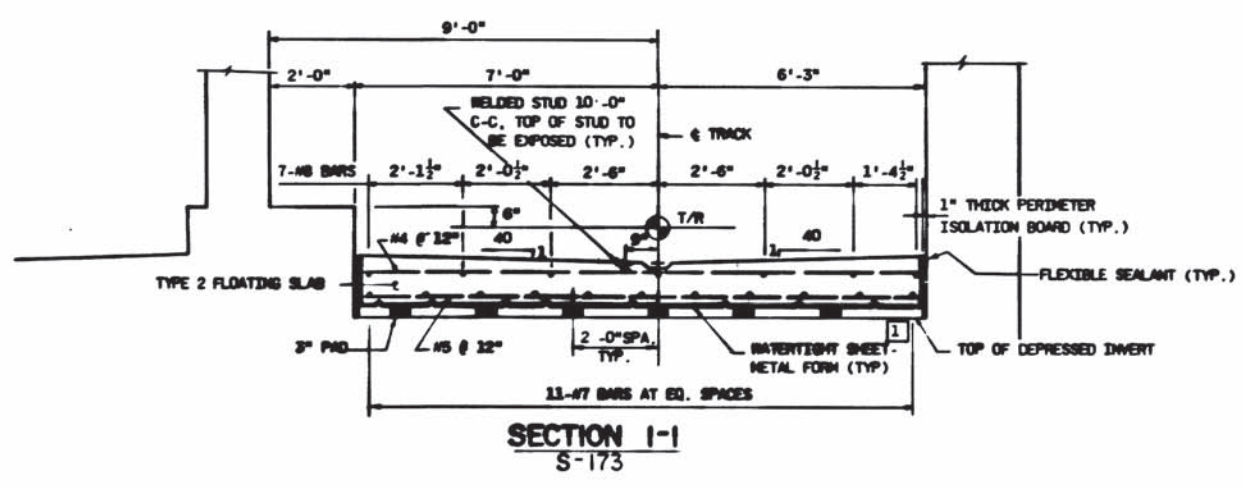
SUBMITTED: 10/15/76

ROCKVILLE ROUTE
 CUT AND COVER STRUCTURE
 FLOATING SLAB DETAILS

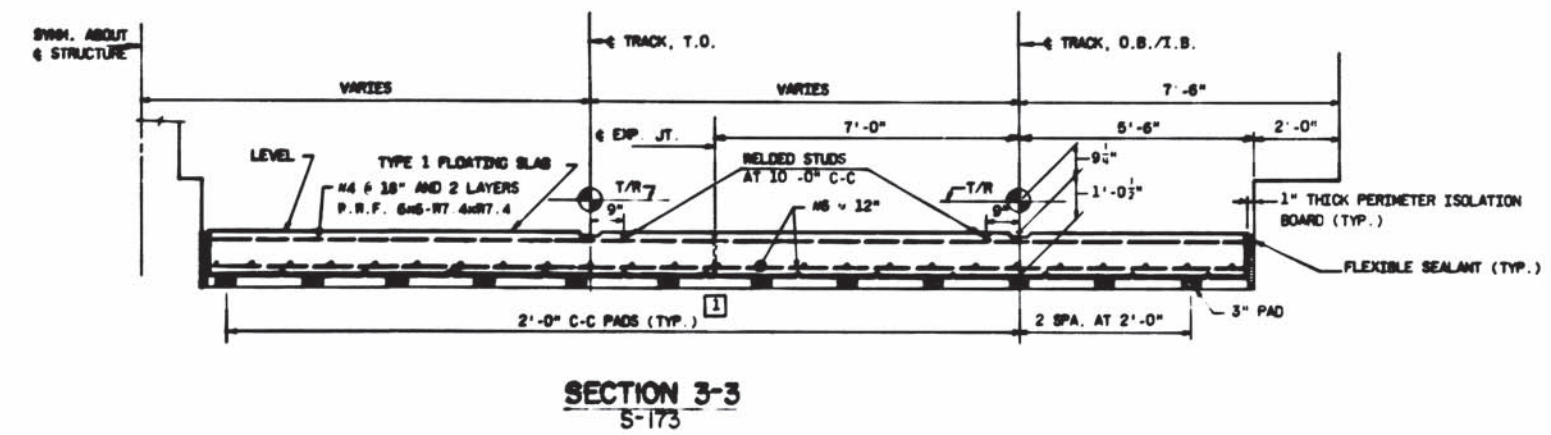
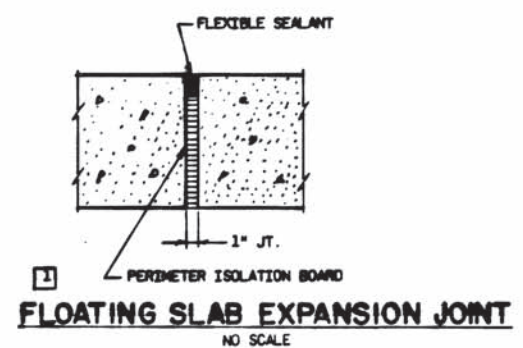
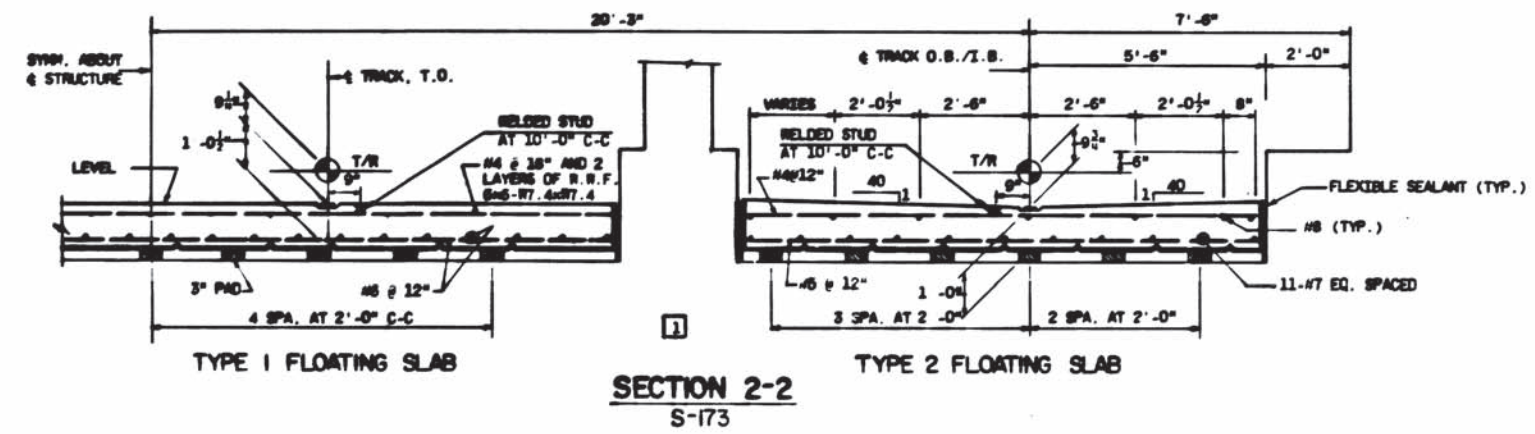
SCALE: 3/16" = 1'-0"

DRAWING NO. **A13-S-173**

M220-239



- NOTES:**
1. THE SWITCH ROD TROUGH DETAILS ARE SHOWN ON DRG. NO. A13-S-5.
 2. FOR LOCATION AND EXTENT OF FLOATING SLABS AND EXPANSION JOINTS, SEE KEY PLAN DRG. NO. A13-S-1.
 3. FOR ANCHORAGE CLEARANCE ENVELOPES SEE DRG. NO. A13-S-36.
 4. FOR MATERIALS AND INSTALLATION OF FLOATING SLAB, VIBRATION ISOLATION PADS AND PERIMETER ISOLATION BOARD, SEE "GENERAL PROVISIONS AND STANDARD SPECIFICATIONS FOR CONSTRUCTION PROJECT."
 5. FOR LAYOUT OF VIBRATION ISOLATION PADS UNDER FLOATING SLAB, SEE DRG. NO. A13-S-173.
 6. VIBRATION ISOLATION PADS SHALL HAVE THE FOLLOWING SIZES:
 FIBERGLASS PADS - 6"x6" BY 3" THICK
 RUBBER PADS - 5"x5" BY 3" THICK



WASHINGTON METROPOLITAN
 TRANSIT AUTHORITY
 AS-BUILT CONDITION
 MAY 03 1978

DESIGNED J.F.H. 6/75
 DRAWN A.W.HOOVER 8/75
 CHECKED T. MORRIS 7/75
 APPROVED [Signature] 10/75

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-173	FLOATING SLAB DETAILS	07/15/76	G.P.
S1-S-7	ELECTRICAL BONDING OF REINF. STEEL		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS
 SUBMITTED [Signature]

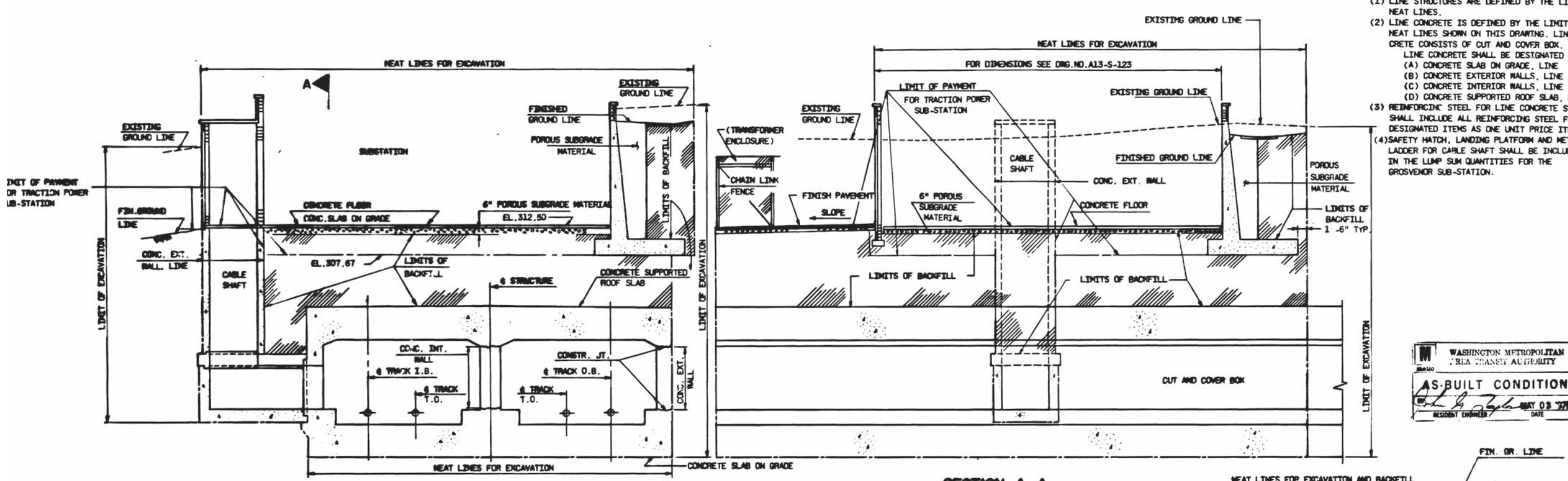
DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED [Signature]

ROCKVILLE ROUTE
 CUT AND COVER STRUCTURE
 FLOATING SLAB DETAILS

SCALE 1" = 1'-0"
 DRAWING NO. A13-S-174 M220-240

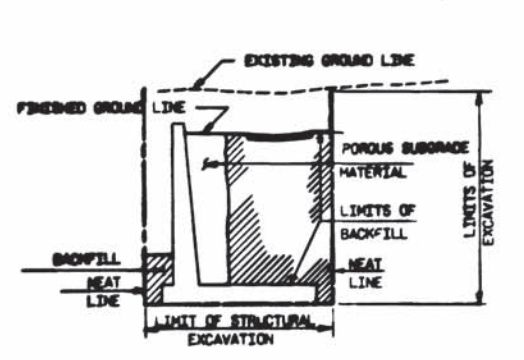
- CUT AND COVER LINE STRUCTURES**
- NOTES:**
- (1) LINE STRUCTURES ARE DEFINED BY THE LIMITS AND HEAT LINES.
 - (2) LINE CONCRETE IS DEFINED BY THE LIMITS AND HEAT LINES SHOWN ON THIS DRAWING. LINE CONCRETE CONSISTS OF CUT AND COVER BOX, LINE CONCRETE SHALL BE DESIGNATED AS FOLLOWS:
 - (A) CONCRETE SLAB ON GRADE, LINE
 - (B) CONCRETE EXTERIOR WALLS, LINE
 - (C) CONCRETE INTERIOR WALLS, LINE
 - (D) CONCRETE SUPPORTED ROOF SLAB, LINE
 - (3) REINFORCING STEEL FOR LINE CONCRETE STRUCTURES SHALL INCLUDE ALL REINFORCING STEEL FOR THE DESIGNATED ITEMS AS ONE UNIT PRICE ITEM.
 - (4) SAFETY HATCH, LANDING PLATFORM AND METAL LADDER FOR CABLE SHAFT SHALL BE INCLUDED IN THE LUMP SUM QUANTITIES FOR THE GROSVENOR SUB-STATION.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 RESIDENT ENGINEER: [Signature] DATE: MAY 03 '79

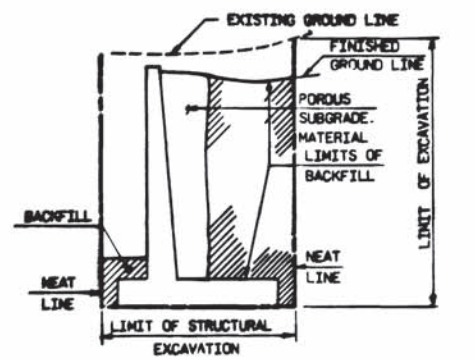


LINE SECTION THRU CUT & COVER BOX, CABLE SHAFT & SUBSTATION

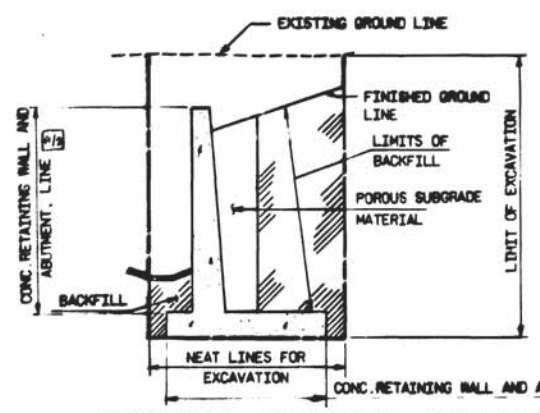
SECTION A-A



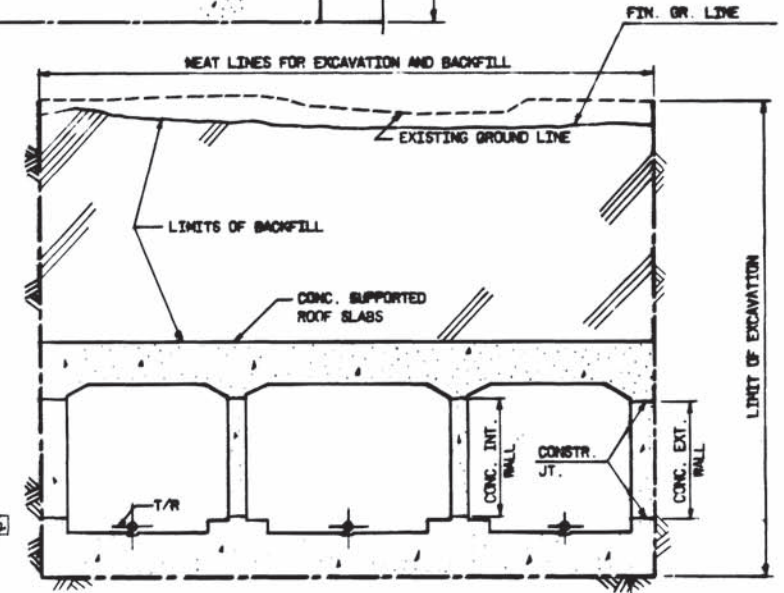
RETAINING WALL TYPE D EAST SIDE
 SUBSTATION FROM STA. 570+05 TO 570+32



RETAINING WALL TYPE A EAST SIDE
 SUBSTATION FROM STA. 570+32 TO 570+57



WINGWALL AT PORTAL UNIT A5690
 AT STA. 568+72
 OUTBOUND SHOWN INBOUND OPPOSITE HAND



SECTION THRU LINE CUT AND COVER BOX

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-162	TYPICAL EXCAVATION DIAGRAMS	2-12-76	C.L.
A13-S-123	FOUNDATION PLAN - GROSVENOR SUBSTATION		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

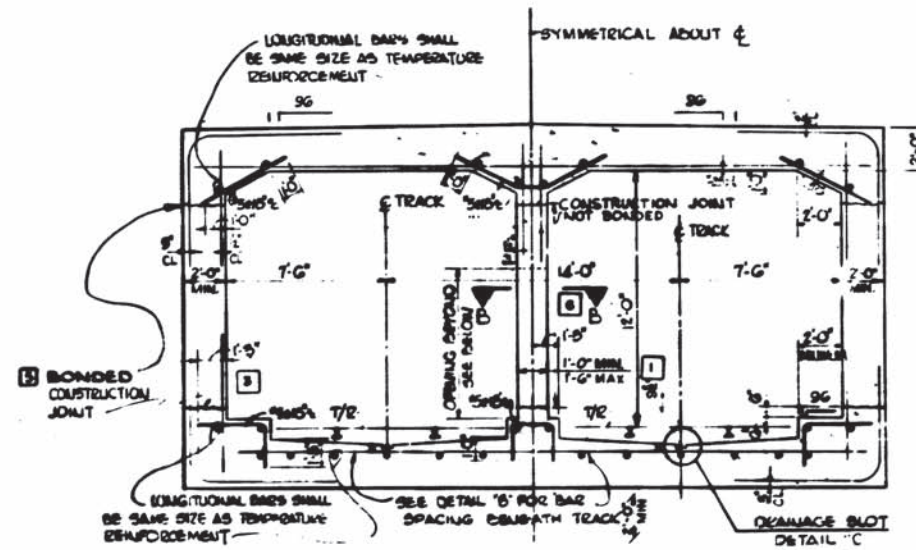
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT

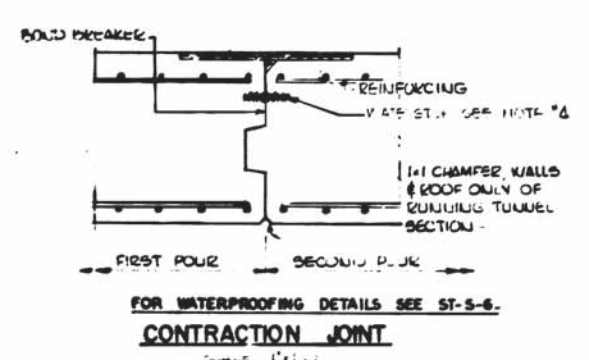
HARRY WIEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
 CUT AND COVER STRUCTURE
 LIMITS OF PAYMENT
 TYPICAL EXCAVATION AND BACKFILL DIAGRAMS

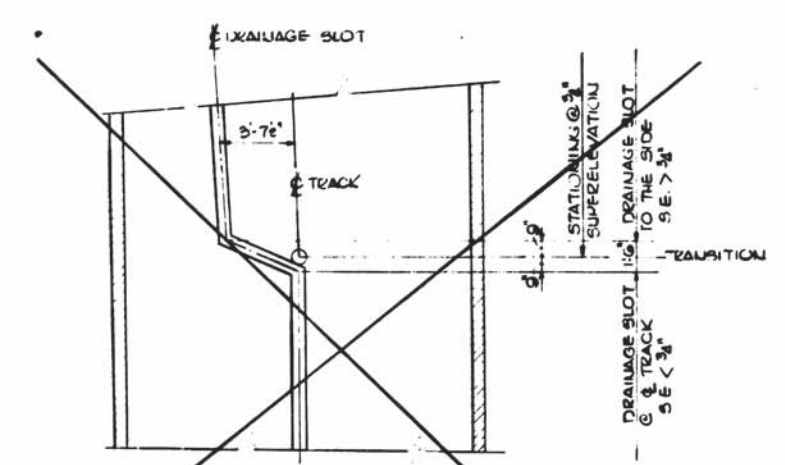
SCALE: 1/8" = 1'-0" DRAWING NO. A13-S-175 M220-241



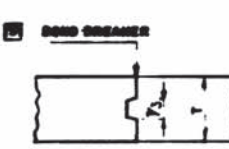
**DOUBLE BOX DETAILS
TANGENT SECTION**



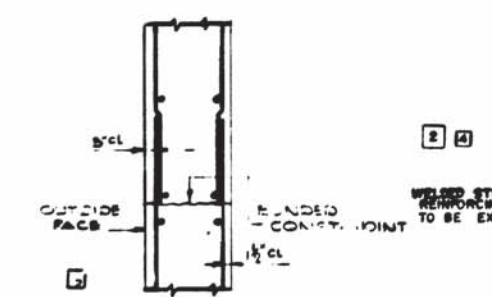
CONTRACTION JOINT
SCALE: 1"=1'-0"



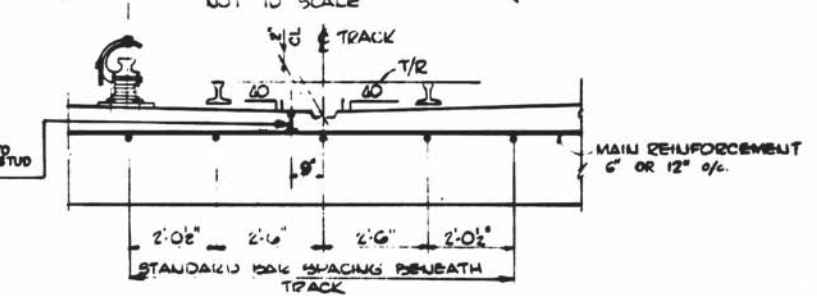
TYPICAL INVERT TRANSITION AT 3/4\"/>



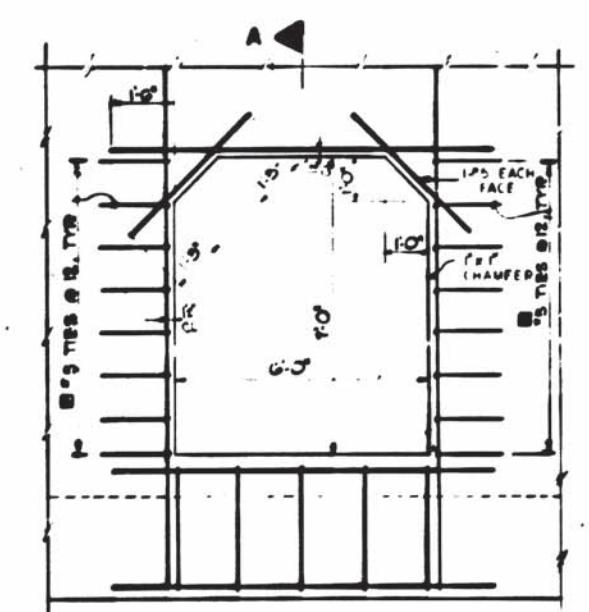
**SECTION B-B
CENTER WALL N.T.S.**



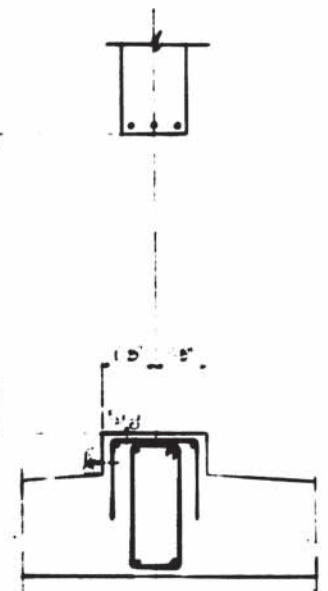
CONSTRUCTION JOINT
SCALE: 1"=1'-0"



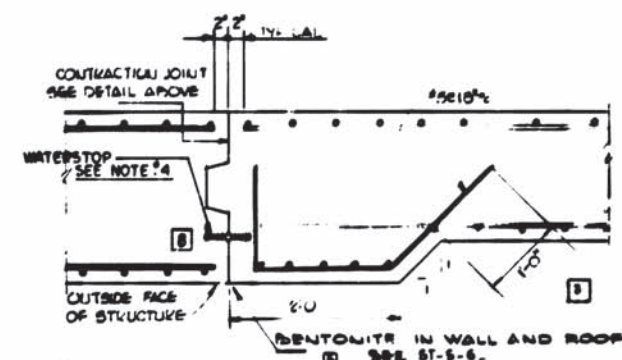
DETAIL B
SCALE: 1/2"=1'-0"



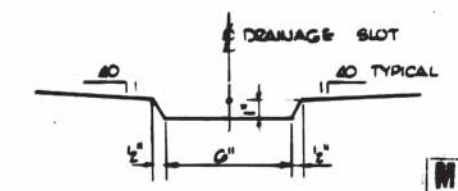
DETAIL OF OPENING IN CENTER WALL
SCALE: 1/2"=1'-0"



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



TRANSITION IN WALL, ROOF & SLABS
SCALE: 1"=1'-0"



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

WASHINGTON METROPOLITAN
TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1979
REVISION ENGINEER DATE

- NOTES:**
1. BOND BREAKER
 2. BENTONITE WATERPROOFING TREATMENT SHALL BE APPLIED AS SHOWN TO CONTRACTION JOINTS OF WALLS AND ROOF ONLY.
 3. CONCRETE PROTECTION FOR REINFORCING STEEL IS AS SHOWN ON DETAILS.
 4. WATERSTOP TO BE 6"X1/2" POLYVINYLCHLORIDE. WATERSTOP AND BONDBREAKER ARE TYPICAL FOR OUTSIDE WALLS, ROOF AND INVERT.
 5. BENTONITE PANELS ON ROOF SHALL BE PROTECTED BY A 4'-0" WIDE PANEL OF 1/8" HARDSHARD BEFORE BACKFILLING.

TYPICAL JOINT DETAILS

NO.	DATE	BY	DESCRIPTION	REVISIONS
1	9-20-71	J.A.S.	RELOCATED WATERSTOP	DELETED NOTE 1.
2	3-3-71	J.A.S.	GENERAL	REVISED NOTE-SEC. B-B
3	8-1-69	J.A.S.	SECTION "B-B" ADDED	NOTE 4

NO.	DATE	BY	DESCRIPTION
1	9-20-71	J.A.S.	REVISED INV DIM & CONTR JOINT, ADDED CONIC PROTECTION FOR REINF DIMENSIONS
2	7-11-69	J.A.S.	ADDED NELSON STUDS AT INVERT
3	8-29-69	J.A.S.	REVISED REINF DIMENSIONS
4	8-18-69	J.A.S.	ADDED ST. 0.8 & 1.0
5	8-27-69	J.A.S.	GENERAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

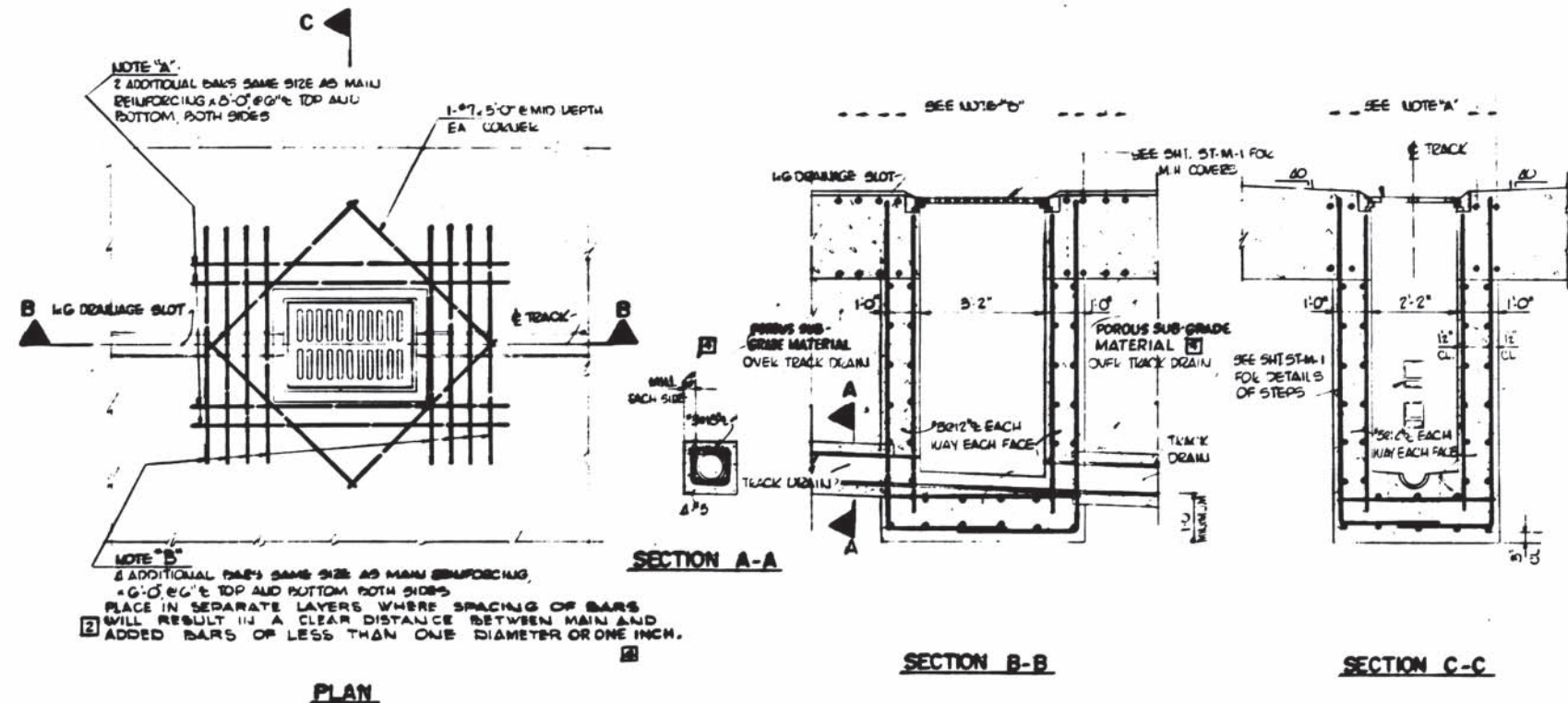
APPROVED: *Walter H. Lynn*
Ray T. Baker 1-10-69

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

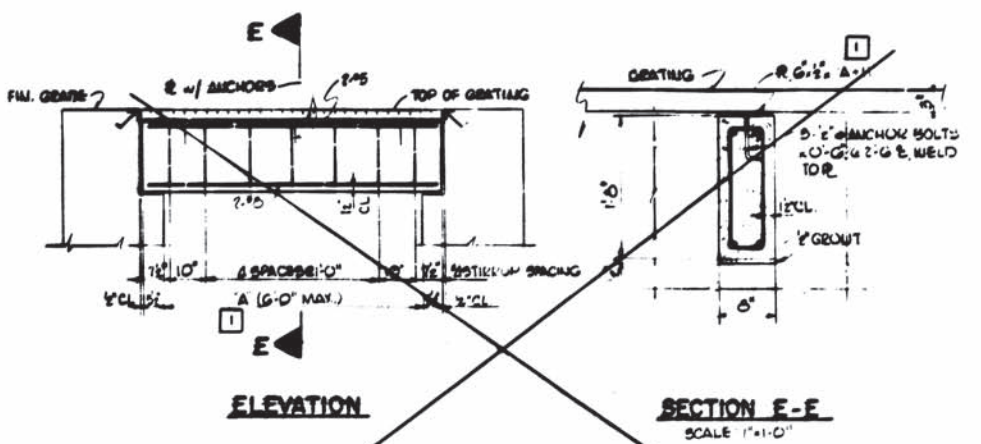
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

STRUCTURAL STANDARD DRAWING
CUT AND COVER SECTIONS
TYPICAL DETAILS AND REINFORCEMENT
SECTION NO. A13

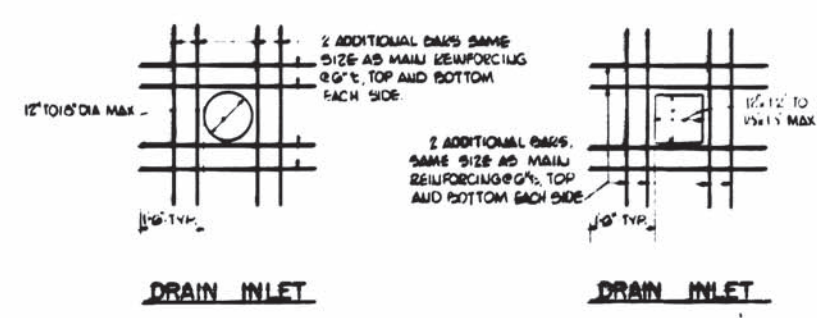
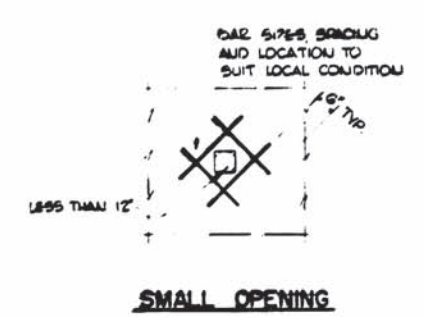
SCALE: 1/2"=1'-0" AND AS NOTED
DRAWING NO. ST-S-1
M220-242



STANDARD MANHOLE REINFORCING



**TYPICAL REMOVABLE PRECAST BEAM FOR GRATING SUPPORT AT FAN AND VENT SHAFTS
MAXIMUM SPACING 3'-4" O.C.**



TYPICAL ADDITIONAL REINFORCING AT OPENINGS

NOTES:
1. CONCRETE PROTECTION FOR DEWELDED STEEL IS AS SHOWN ON DETAILS.

DESIGNED C.A. BELLAN
DRAWN J.A. BOND
CHECKED H. J. ...
APPROVED ...

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
ST-M-1	DRAINAGE DETAILS AND CASTINGS	5-28-68	J.A.B.
ST-M-9	FRAMES AND GRATINGS	5-1-68	J.A.B.
		9-28-70	J.A.B.
		1/10/77	J.A.B.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED: *Harold W. Jones*
Paul J. Dodge 1-10-69

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

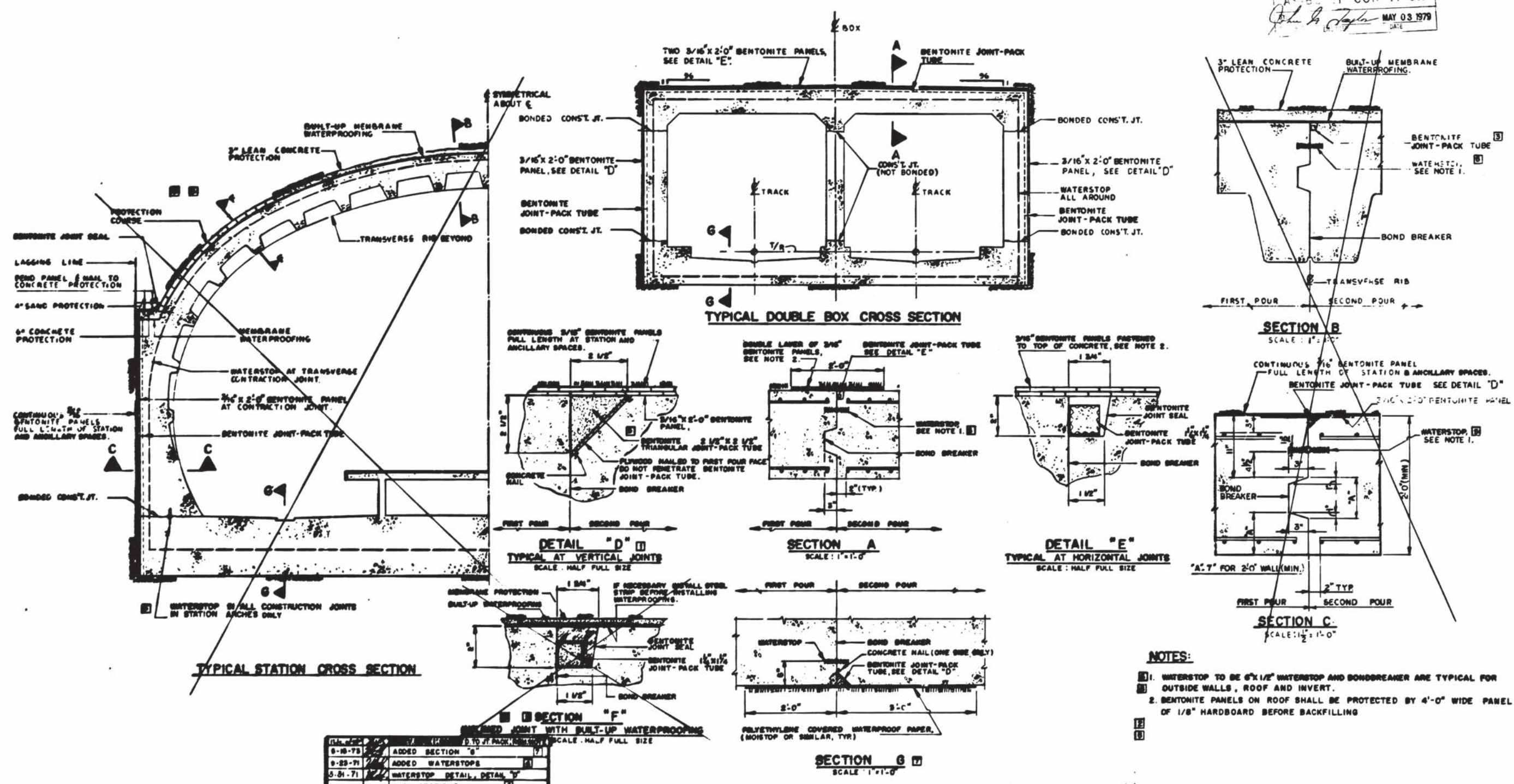
HARRY WEEBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

STRUCTURAL STANDARD DRAWING
DRAINAGE AND VENTILATION STRUCTURES
TYPICAL DETAILS AND REINFORCEMENT
SECTION NO. A13

SCALE: 1" = 1'-0"
AND AS NOTED

DRAWING NO. ST-S-4
M220-243

WASHINGTON METROPOLITAN
TRANSIT AUTHORITY
ACCEPTED FOR CONSTRUCTION
John H. Taylor
DATE MAY 03 1979



- NOTES:**
1. WATERSTOP TO BE 6"x1/2" WATERSTOP AND BONDBREAKER ARE TYPICAL FOR OUTSIDE WALLS, ROOF AND INVERT.
 2. BENTONITE PANELS ON ROOF SHALL BE PROTECTED BY 4'-0" WIDE PANEL OF 1/8" HARDBOARD BEFORE BACKFILLING

DATE	BY	DESCRIPTION
9-10-73		ADDED SECTION 'G'
9-29-71		ADDED WATERSTOPS
5-31-71		WATERSTOP DETAIL, DETAIL 'F' AND SECTIONS

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
ST-9-7	ELECTRICAL BONDING OF REINFORCING STEEL	1-8-69	J.A.S.	DETAIL 'F' TYPICAL AT VERTICAL JOINTS
		3-8-69		NOTE-3 ADDED AND ACUSTIC SLABS REMOVED
		8-11-69		DETAIL 'F' ADDED-NOTE REVISED
		10-20-69		GENERAL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

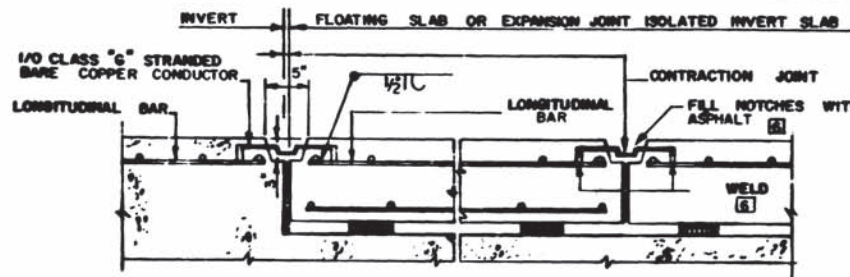
HARRY WEEBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED: *Harold H. Taylor*
Ray J. ... 1-10-69

STRUCTURAL STANDARD DRAWING
CUT AND COVER
WATERPROOFING DETAILS
SECTION NO. A13

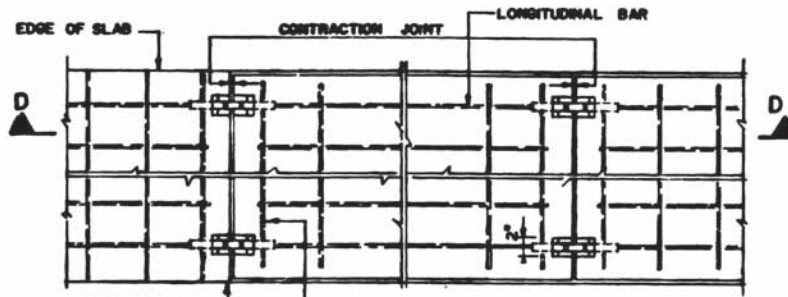
SCALE: 1/4"=1'-0"
AND AS NOTED

DRAWING NO. ST-S-6
M220-244



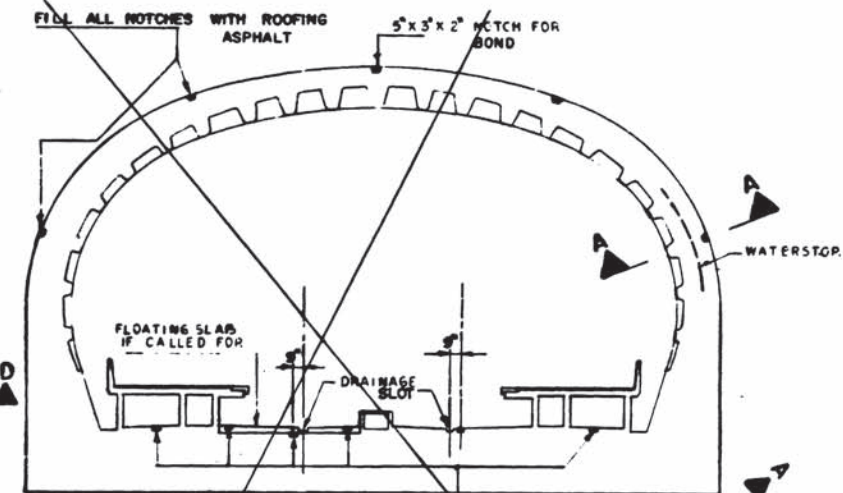
SECTION D-D
SCALE 1" = 1'-0"

TYPICAL BONDING FOR FLOATING SLAB OR EXPANSION JOINT ISOLATED INVERT SLAB.

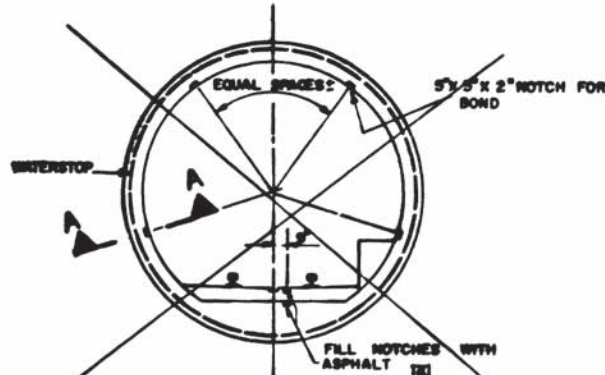


PLAN
SCALE 1" = 1'-0"

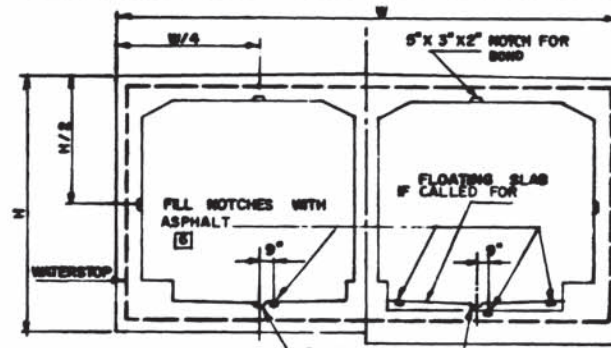
TRANSVERSE BAR WELD TO ALL LONGITUDINAL BARS
SEE DETAIL BELOW FOR WIRE FABRIC BONDING



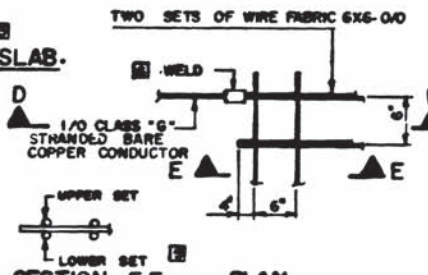
TYPICAL CUT & COVER STATION
SCALE: 1/8" = 1'-0"



TYPICAL CAST-IN-PLACE TUNNEL LINING
SCALE 3/16" = 1'-0"

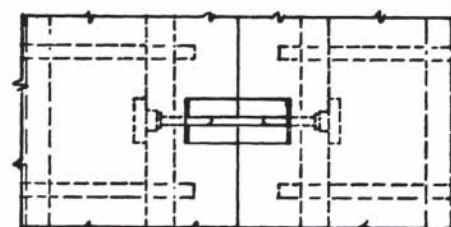


DETAIL WITHOUT FLOATING SLAB
SCALE 3/16" = 1'-0"

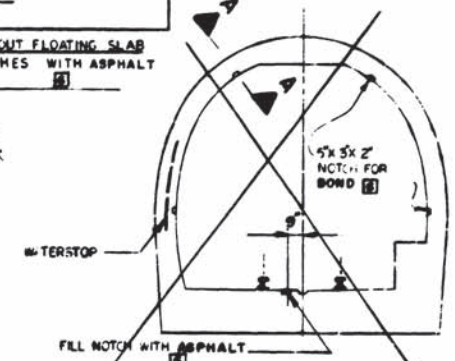


SECTION E-E
SCALE 1" = 1'-0"

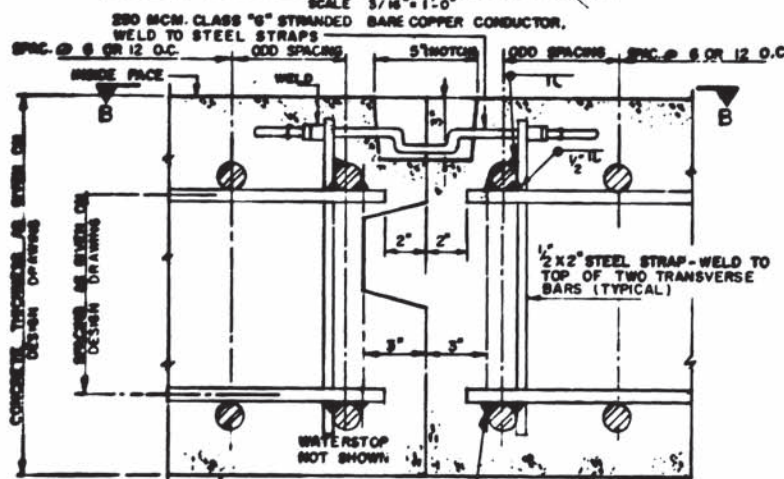
BONDING DETAIL FOR WIRE FABRIC



TYPICAL CUT & COVER BOX
SCALE 3/16" = 1'-0"

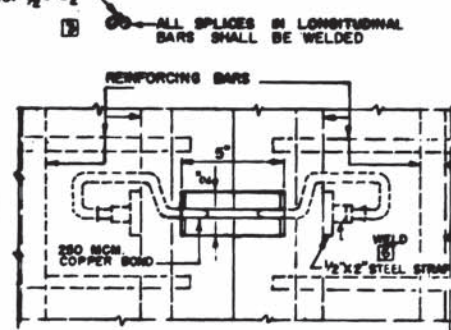


TYPICAL HORSESHOE TUNNEL LINING
SCALE: 3/16" = 1'-0"



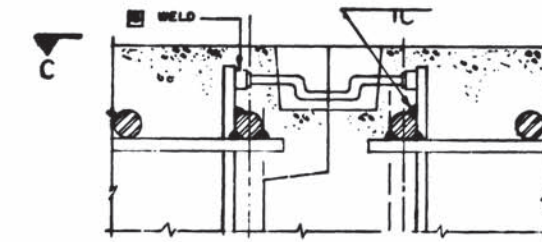
SECTION A-A
SCALE 3" = 1'-0"

END TRANSVERSE BARS WELDED TO ALL LONGITUDINAL BARS AND ALL END TRANSVERSE BARS WELDED TOGETHER TO FORM A COMPLETE CONTINUOUS DOUBLE CAGE



SECTION B-B
SCALE 3" = 1'-0"

SECTION C-C
SCALE 3" = 1'-0"



NOTE: THE BONDING ASSEMBLY SHALL BE SHOP WELDED.

SECTION A-A
SCALE 3" = 1'-0"

OPTIONAL BONDING DETAILS

- NOTES**
- BONDS SHALL BE LOCATED AT THE CONTRACTION JOINT AT EACH END OF A STRUCTURAL UNIT.
 - BOND LOCATIONS SHOWN ARE APPROXIMATE. ADJUST AS REQUIRED TO AVOID ELECTRICAL CONDUITS, ETC.
 - TYPICAL BONDING DETAILS SHALL APPLY TO ROCK TUNNELS WITH CONCRETE LININGS.
 - AT AN UNDERGROUND TUNNEL LOCATION ADJACENT TO EACH TRACTION SUBSTATION INSTALL 2-250 MCM COPPER BONDS. EACH SHALL BE WELDED TO REINFORCING STEEL. ROUTE OTHER ENDS OF BONDS INTO A 12x16x4 JUNCTION BOX. FROM JUNCTION BOX, ROUTE ONE 2" PVC CONDUIT TO THE TRACTION SUBSTATION FOR FUTURE STRAY CURRENT CORROSION CONTROL CABLING. JUNCTION BOX TO BE CONVENIENTLY LOCATED FOR SIMPLEST CONDUIT ROUTING.
 - ALL UNDERGROUND STRUCTURES SHALL HAVE THE PERIMETER ELEMENTS BONDED BY METHODS SIMILAR TO THOSE INDICATED ON THIS DRAWING TO FORM A COMPLETE CONTINUOUS DOUBLE CAGE, AND ADJACENT UNITS SHALL BE BONDED TOGETHER, WHERE IT IS NECESSARY TO PLACE THE COPPER CONDUCTOR IN EARTH IT SHALL BE INSULATED.

APPROVED: *[Signature]* MAY 03 1979

DATE	BY	DESCRIPTION
10-22-68	JAS	1) REVISED BONDING NOTE
3-21-69	JAS	2) GENERAL REVISION
10-22-69	JAS	3) NOTE 3 AND BAR WELDING ADDED
7-22-70	JAS	4) OPTIONAL BONDING DETAILS
3-20-71	JAS	5) ADD REF # 5, 6 & REVISED NOTE 3
		REV TYP BOND DET. ADD TYP BOND FOR FLOAT SLAB.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED: *[Signature]* 1-10-69

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

STRUCTURAL STANDARD DRAWING
ELECTRICAL BONDING OF REINFORCING STEEL
SECTIONS & DETAILS
SECTION NO. A13

SCALE: AS NOTED
DRAWING NO.: ST-S-7
M220-245

LOADS

CRITERIA

STRUCTURES	DEAD LOADS (DL)	LIVE LOADS (LL) AND OTHER LOADS		DESIGN LOADING COMBINATIONS & ALLOWABLE UNIT STRESSES
		VERTICAL	HORIZONTAL	
DECK STRUCTURE	OWN WEIGHT	ROADWAY LOADS 1. BASIC LOADING (LL) AS SHOWN ON APPLICABLE REFERENCES * ART 1.2.5, 1.2.7, 1.2.8, 1.3.1 TO 1.3.7 2. IMPACT (I) ART 1.2.12 3. UNDER AND WITH TRAFFIC LANE AS SHOWN ON DRAWINGS OR SPECIFIED 4. ART 1.2.8 (REDUCTION IN LOAD INTENSITY) DOES NOT APPLY OPERATING LOADS FROM CONSTRUCTION EQUIPMENT (LL) WITH NOT LESS THAN 50% IMPACT SIDEWALK AND PEDESTRIAN ISLAND LOADS (LL) 250 PSF OR VEHICULAR LOADS WHICHEVER ARE GREATER	LONGITUDINAL FORCES (LF) ART 1.2.13, EXCEPT REFERENCE TO ART 1.2.8 WIND LOADS (W) 20 PSF ON EXPOSED AREA OF VEHICLES AND EQUIPMENT, BUT NOT LESS THAN 100 LBS PER LINEAR FOOT OF DECK STRUCTURE APPLIED NORMAL TO THE DIRECTION IN WHICH LENGTH IS MEASURED LATERAL EARTH (E) AND HYDROSTATIC (H) PRESSURE SAME AS FOR EXCAVATION RETAINING STRUCTURES	LOADING SHALL CONSIST OF THE FOLLOWING $DL + LL + I + E + H$ AT 100% OF UNIT STRESS OR $DL + LL + I + E + H + LF + W$ AT 125% OF UNIT STRESS WHICHEVER IS GREATER NOTE: THE VALUE OF LL IS THE MAXIMUM TOTAL LIVE LOAD OBTAINED BY COMBINING THE VARIOUS LIVE LOADS THAT MIGHT EXIST AT ONE TIME
		UTILITY FACILITIES TO BE SUPPORTED ARE SHOWN ON THE UTILITY PLANS		
	RAILROADS		(LL) ART 1.2.11(C)	
CURBS AND SIDEWALKS	OWN WEIGHT	100 PSF	(LL) ART 1.2.11 (D)	
EXCAVATION - RETAINING STRUCTURE	OWN WEIGHT AND REACTIONS FROM DEAD LOADS OF DECK STRUCTURE AND BRACING SYSTEM	REACTIONS FROM ALL LIVE LOADS EXCLUDING IMPACT ON DECK STRUCTURE (LL)	LATERAL EARTH PRESSURE DUE TO HEIGHT OF SOIL AND SURCHARGE (E) HYDROSTATIC PRESSURE (H) AXIAL LOADS FROM END BULKHEAD WHERE APPLICABLE (E) AND (H)	$DL + LL + E + H$ AT 120% OF UNIT STRESS
			SIMPLE BEAR REACTIONS FROM WALL SYSTEMS (E AND H) AXIAL LOADS FROM END WALLS WHERE APPLICABLE (E) AND (H)	
	AXIAL LOAD EQUAL TO 2% OF THE DESIGN AXIAL LOAD IN THE BRACED MAIN MEMBER			120% OF UNIT STRESS

- TEMPORARY EARTH RETAINING AND DECK STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS SHOWN ON THIS DRAWING ON THE DRAWING TITLED "LATERAL PRESSURES FOR THE DESIGN OF TEMPORARY EARTH RETAINING STRUCTURES" AND APPLICABLE SPECIFICATIONS
- UNLESS MODIFIED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS THE STRUCTURAL DESIGN SHALL BE GOVERNED BY THE CURRENT EDITIONS OF THE FOLLOWING MANUALS, CODES OR SPECIFICATIONS:
 - ROADWAY DECK "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS" EXCEPT DEFLECTION DUE TO LIVE LOAD PLUS IMPACT SHALL NOT EXCEED 1/800 OF THE SPAN.
 - TEMPORARY RETAINING STRUCTURES AND OTHER TEMPORARY STRUCTURES:
 - STEEL: "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 - WELDING: "STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY" D1.1.
 - REINFORCED CONCRETE: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" OF THE AMERICAN CONCRETE INSTITUTE
 - LUMBER: "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" OF THE NATIONAL FOREST PRODUCTS ASSOCIATION
- THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE ENGINEER COMPLETE COMPUTATIONS AND WORKING DRAWINGS FOR TEMPORARY STRUCTURES. THE DESIGN SHALL BE IN ACCORDANCE WITH THE GIVEN LOADS ON THIS SHEET AND GOOD ENGINEERING PRACTICE AND WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- EARTH RETAINING STRUCTURES SHALL BE ANALYZED FOR THE VARIOUS CONDITIONS THAT MAY OCCUR DURING THE LIFE OF THE STRUCTURE, SUCH AS THE SEVERAL STAGES OF EXCAVATION, CONST., INSTALLATION, REMOVAL AND RELOCATION OF STRUTS. THE WORKING DRAWINGS SHALL SHOW CONSTRUCTION SEQUENCE AND DETAILS OF POSTING, DIAGONAL LACING, WEB STIFFENERS, ETC.
- WHERE THE LOADING CONDITIONS ON OPPOSITE SIDES OF AN EXCAVATION ARE NOT EQUAL, THE STABILITY OF THE TEMPORARY RETAINING STRUCTURE SHALL BE ANALYZED TO TAKE THIS CONDITION INTO ACCOUNT.
- SOLDIER BEAMS MAY BE CONSIDERED FULLY BRACED IN THE PLANE OF THE WALL.
- THE LOADS IN WALES AND STRUTS FOR FLEXIBLE OR RIGID WALL SYSTEMS SHALL BE COMPUTED BY ASSUMING THE WALL TO BE HINGED AT A SUPPORT POINT BELOW THE BOTTOM OF THE EXCAVATION AND AT EACH STRUT EXCEPT THE TOP ONE.
- STRUTS SHALL BE PRESTRESSED TO 50% OF THEIR MAXIMUM DESIGN LOAD.
- ALL COMPRESSION MEMBER CONNECTIONS, IN ADDITION TO BEING DESIGNED FOR THEIR COMPRESSIVE LOADS, SHALL BE DESIGNED FOR TENSION AND SHEAR EQUAL TO A MINIMUM OF 10% OF THE COMPRESSIVE LOAD UNLESS ACTUAL TENSION AND SHEAR LOADS ARE GREATER.
- WHERE THE BOTTOM OF THE TRACK-DRAIN TRENCH IS BELOW A 1-VERTICAL TO 2-HORIZONTAL INFLUENCE LINE FROM THE BOTTOM OF THE INVERT AT THE SIDE OF EXCAVATION, ADEQUATE BRACING TO RESIST LATERAL PRESSURES SHALL BE INSTALLED IN THE TRACK-DRAIN TRENCH.
- THE CONTRACTOR MAY SUBMIT ALTERNATIVE TEMPORARY EARTH-SUPPORT STRUCTURES FOR REVIEW BY THE ENGINEER.

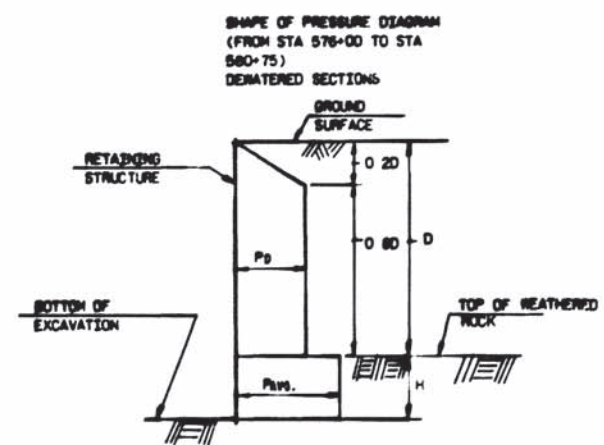
* REFERENCES ARE TO ARTICLES IN "THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS 1973

Charles J. Zerk
MAY 03 1978

DESIGNED BY: <i>A. B. ...</i> CHECKED BY: <i>...</i> APPROVED BY: <i>...</i>	REFERENCE DRAWINGS NUMBER DESCRIPTION _____ _____	REVISIONS DATE BY DESCRIPTION 3-30-78 [1] CHANGE NOTES 1 AND 2, DATE OF AASHTO REFERENCE AND TITLE REVISED [2] CHANGE: ROADWAY DECK W/ CRITERIA 2 [3] CHANGE: WELDING CODE, DATE OF AASHTO REFERENCE	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY APPROVED BY: <i>...</i>	DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT	STRUCTURAL STANDARD DRAWING CRITERIA FOR THE DESIGN OF TEMPORARY STRUCTURES SECTION NO. A13
	SCALE: NONE	DRAWING NO.: ST-5-9	M220-246		

LATERAL PRESSURE DUE TO WEIGHT OF SOIL AND WATER

STATION TO STATION	DMM (FT)	D (FT)	H (FT)	a (FT)	DEWATERED SECTIONS			SECTIONS NOT DEWATERED							
					MAIN BRACING MEMBERS P _b (PSF)	SOLDIER BEAMS P _s (PSF)	ROCK PRESSURE P _{avg} (PSF)	FLEXIBLE			RIGID				
								MAIN BRACING MEMBERS P _b (PSF)	SHEETING P _s (PSF)	HYDROSTATIC PRESSURE P _w (PSF)	ROCK PRESSURE P _{avg} (PSF)	MAIN BRACING MEMBERS P _b (PSF)	WALL P _w (PSF)	HYDROSTATIC PRESSURE P _w (PSF)	ROCK PRESSURE P _{avg} (PSF)
568+72 TO 569+75	40	40	>	40	1275	(A) 1020 (B) 785	—	1185	(A) 935 (B) 700	—	—	1485	1485	—	—
569+75 TO 571+25	55	55	>	55	1750	(A) 1400 (B) 1080	—	1805	(A) 1285 (B) 985	—	—	2045	2045	—	—
571+25 TO 574+25	60	60	—	56	1930	(A) 1545 (B) 1180	—	1785	(A) 1415 (B) 1080	290	—	2250	2250	250	—
574+25 TO 576+00	50	50	—	42	1800	(A) 1280 (B) 980	—	1450	(A) 1180 (B) 870	900	—	1850	1850	500	—
576+00 TO 577+25	43	35	8	32	985	(A) 785 (B) 580	1800	—	—	—	—	—	—	—	—
577+25 TO 578+75	42	22	20	31	625	(A) 500 (B) 375	1785	—	—	—	—	—	—	—	—
578+75 TO 580+75	36	28	10	26	780	(A) 625 (B) 470	1580	—	—	—	—	—	—	—	—



ADDITIONAL LATERAL PRESSURE DUE TO SURCHARGE LOADS

TRAFFIC AND CONSTRUCTION EQUIP LOADS

BUILDING FOR CONSTRUCTION LOADS

DISTRIBUTION OF HORIZ. PRESSURE ON VERTICAL PLANE

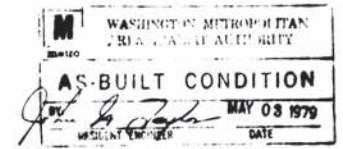
	DISTRIBUTION OF HORIZ. PRESSURE IN PLAN	
	AREAL LOAD OR FINITE LINE LOAD PARALLEL TO EXCAVATION	FOOTING LOAD OR LINE LOAD PERPENDICULAR TO EXCAVATION
ISOLATED (INDIVIDUAL) FOOTING CONSIDERED AS POINT LOAD	0.6	0.4
CONTINUOUS FOOTING CONSIDERED AS LINE LOAD PARALLEL TO RETAINING STRUCTURE	0.4	0.25
AREAL LOAD	0.4	0.25
CONTINUOUS FOOTING CONSIDERED AS LINE LOAD PERPENDICULAR TO RETAINING WALL	0.6	0.4

THIS LATERAL PRESSURE IS BASED ON AN ASSUMED TRAFFIC AND CONSTRUCTION EQUIPMENT SURCHARGE OF 600 P.S.F. FOR MORE SEVERE CONSTRUCTION LOADING SPECIAL ANALYSIS MUST BE MADE.

HORIZONTAL PRESSURES ON RETAINING STRUCTURES NEED NOT BE CONSIDERED FOR SURCHARGE LYING AT A DISTANCE a = 1 FROM THE RETAINING STRUCTURE.

- DEFINITION OF SYMBOLS:**
- a D' = DISTANCE FROM RETAINING STRUCTURE TO: (1) FOOTING LOAD (2) PARALLEL LINE LOAD, (3) LEADING EDGE OF AREAL LOAD, (4) PERPENDICULAR LINE LOAD (FT)
 - B' = LENGTH OF AREAL LOAD IN DIRECTION PARALLEL TO THE SIDE OF EXCAVATION (FT)
 - a = DEPTH FROM GROUND SURFACE TO G.W.T. (FT)
 - D = DEPTH FROM HORIZONTAL LOADING PLANE TO BOTTOM OF EXCAVATION (FT)
 - G.W.T. = GROUND WATER TABLE
 - P_b = CALCULATED LATERAL EARTH PRESSURE TO BE USED IN DESIGN OF TEMPORARY RETAINING STRUCTURES (PSF) USE THE BUOYANT WEIGHTS FOR SOIL BELOW THE G.W.T. FOR COMPUTING P_b.
 - P'_b = CALCULATED MAXIMUM LATERAL PRESSURE DUE TO SURCHARGE (PSF)
 - Q' = A SURCHARGE (1) PARALLEL TO RETAINING STRUCTURE AND AREAL LOAD (PLF) (2) FROM ISOLATED FOOTING (LBS) (3) PERPENDICULAR TO A RETAINING STRUCTURE (1-a) D'W (LBS).
 - W' = LINEAR LINE LOAD (PLF) EXTENDING TO DISTANCE = D' PERPENDICULAR TO RETAINING STRUCTURE
 - a, n, m = DIMENSIONLESS FACTORS
 - P_w = HYDROSTATIC PRESSURE (PSF)
 - D = DEPTH FROM GROUND SURFACE TO BOTTOM OF EXCAVATION OR TOP OF WEATHERED ROCK, WHERE APPLICABLE (FT)
 - H = DEPTH FROM TOP OF WEATHERED ROCK TO BOTTOM OF EXCAVATION (FT)
 - P_{avg} = CALCULATED AVERAGE LATERAL ROCK PRESSURE TO BE USED IN DESIGN OF TEMPORARY RETAINING STRUCTURES (PSF).

- NOTES:**
1. CALCULATIONS ARE BASED ON THE ASSUMPTION THAT THE EXCAVATION IS DEWATERED, WHEN CONSTRUCTED WITH SOLDIER BEAMS AND LAGGING, OR WHEN OTHER POSITIVE METHODS OF DRAINING THE SOIL ARE USED.
 2. LOADS FROM STRUCTURES NOT UNDERPINNED ARE TO BE DETERMINED BY THE CONTRACTOR AND REVIEWED BY THE ENGINEER.
 3. FOR EVALUATION OF THE LATERAL PRESSURE UNDER A GIVEN SET OF CONDITIONS, LATERAL PRESSURE FROM SURCHARGE LOADS SHALL BE SUPERPOSED ON LATERAL PRESSURE FROM SOIL WEIGHT (TRAPEZOIDAL DIAGRAM) AND WATER (TRIANGULAR DIAGRAM).
 4. IF ANY LOADINGS OCCUR WHICH ARE NOT DESCRIBED HEREON, ADEQUATE MEASURES MUST BE TAKEN FOR THESE CONDITIONS, SUBJECT TO REVIEW BY THE ENGINEER.
 5. PRESSURE TABULATED PRECEDED BY (A) TO BE USED FOR EXCAVATION SUPPORT DESIGN. PRESSURE TABULATED PRECEDED BY (B) TO BE USED FOR STRUT REMOVAL DESIGN FOLLOWING CONSTRUCTION OF INVERT SLAB.
 6. HYDROSTATIC PRESSURES SHALL BE INCREASED AS REQUIRED IF G.W.T. IS FOUND TO BE AT A HIGHER ELEVATION THAN INDICATED IN THE ABOVE TABLE.
 7. USE MIN. 3 INCHES OF LAGGING THICKNESS UP TO 25 FEET EXCAVATION FROM GROUND SURFACE AND USE MIN. 4 INCHES OF LAGGING THICKNESS FOR OVER 25 FEET EXCAVATION FROM GROUND SURFACE. IF SOLDIER PILE SPACING IS GREATER THAN 7 FEET OR THE PRESENCE OF UNUSUALLY HEAVY CONSTRUCTION SURCHARGE OR PARTICULARLY SOFT COHESIVE SOILS ARE ANTICIPATED, GREATER LAGGING THICKNESS MAY BE REQUIRED.
 8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL OF EXCAVATION SUPPORT METHOD TO RESIST LATERAL PRESSURES. THE CONTRACTOR IS ADVISED THAT DESIGN PRESSURES INDICATED HEREIN ARE MINIMUM.
 9. MATERIALS SHOWN BY THE BORING LOGS TO HAVE STANDARD PENETRATION RESISTANCE OF 60 OR MORE BLOWS PER FOOT, ARE GENERALLY CEMENTED AND CONTAIN ROCK-LIKE REMNANTS. THE CONTRACTOR IS ADVISED THAT EXCAVATION SUPPORT USING FLEXIBLE SHEET PILE CONSTRUCTION METHODS (SECTIONS NOT DEWATERED) MAY NOT BE POSSIBLE.



DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
J.F.H. SMITH	5/75				
J.F.H. SMITH	6/75				
S.P. LEE	6/75				
APPROVED	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER

BUCHART-HORN

CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

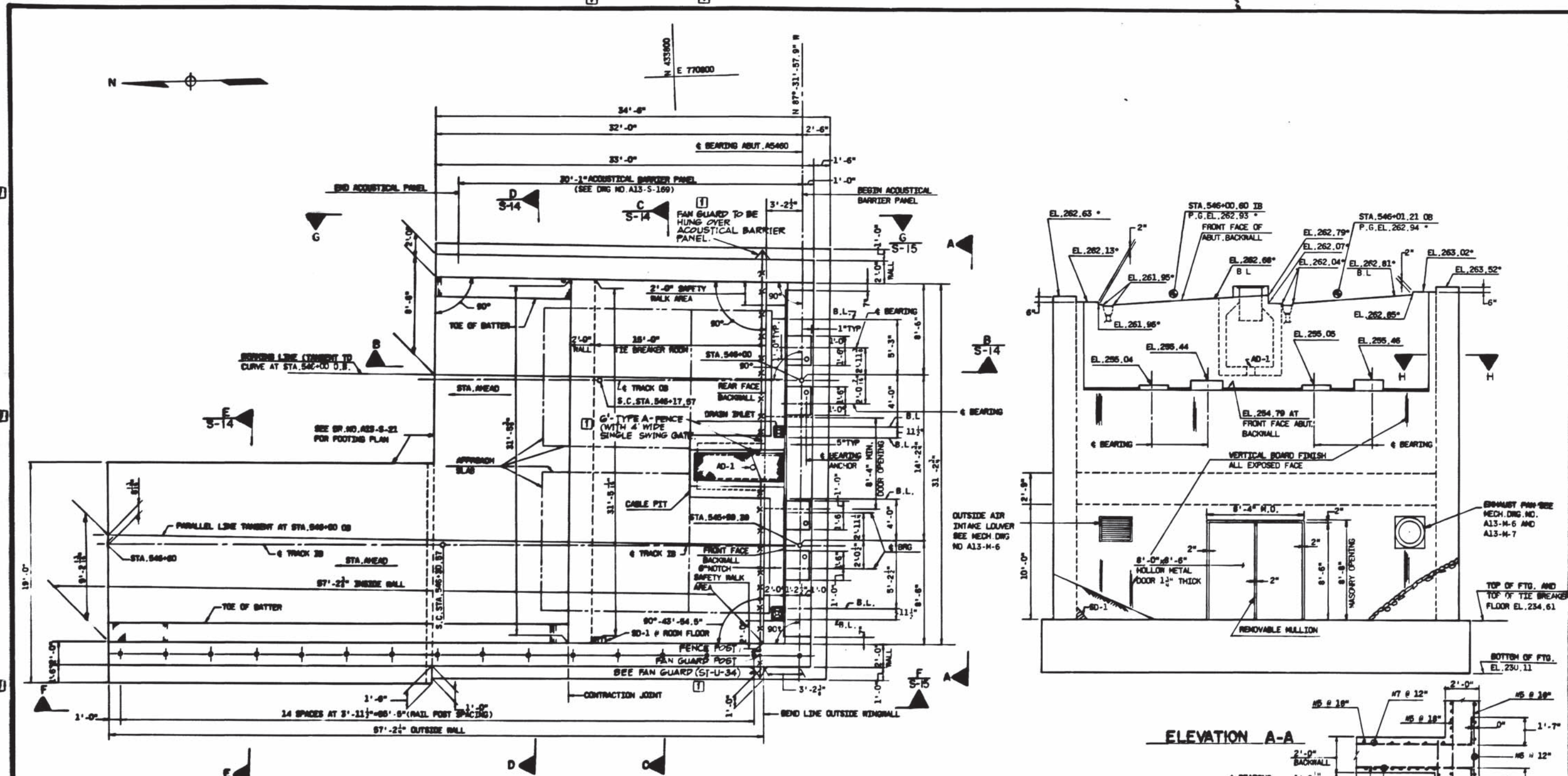
ROCKVILLE ROUTE

LATERAL PRESSURES FOR THE DESIGN OF
TEMPORARY EARTH RETAINING STRUCTURES

SCALE: NO SCALE

DRAWING NO. A13-S-172

M220-247



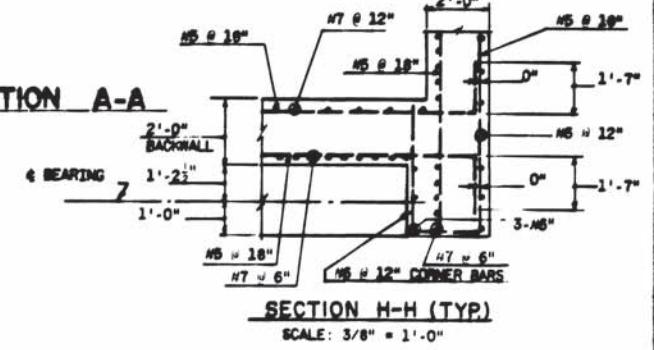
PLAN ABUTMENT A5460 AND TIE BREAKER STATION

ELEVATION A-A

SECTION H-H (TYP)

NOTE:
 * INDICATES ELEVATIONS TAKEN AT FRONT FACE OF ABUTMENT BACKWALL.
 B.L. INDICATES BREAK LINE TOP OF ABUT. BACKWALL.
 FOR DRAINAGE DETAILS SEE DRG. NO. A13-M-21.
 FOR PVC TRACTION POWER CONDUITS LOCATION SEE DRG. NO. A13-E-44.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 HARRY WEISSE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANTS
 DATE: MAY 03 1979



REVISIONS	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
REVISIONS	1	REVISED PER FIELD AND AS-BUILT			
REVISIONS	2	REVISED PER FIELD AND AS-BUILT			
REVISIONS	3	REVISED PER FIELD AND AS-BUILT			
REVISIONS	4	REVISED PER FIELD AND AS-BUILT			
REVISIONS	5	REVISED PER FIELD AND AS-BUILT			
REVISIONS	6	REVISED PER FIELD AND AS-BUILT			
REVISIONS	7	REVISED PER FIELD AND AS-BUILT			
REVISIONS	8	REVISED PER FIELD AND AS-BUILT			
REVISIONS	9	REVISED PER FIELD AND AS-BUILT			
REVISIONS	10	REVISED PER FIELD AND AS-BUILT			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEISSE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANTS

APPROVED: [Signature]

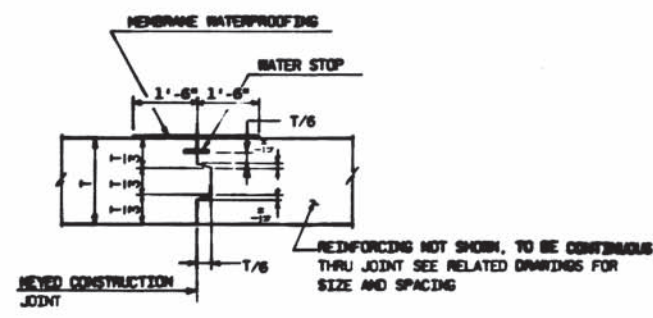
ROCKVILLE ROUTE
 AERIAL STRUCTURE
 PLAN AND ELEVATION ABUT. AND TIE BREAKER STATION
 ABUTMENT A5460 O.B. AND I.B.

SCALE: 1/4" = 1'-0" AND AS NOTED

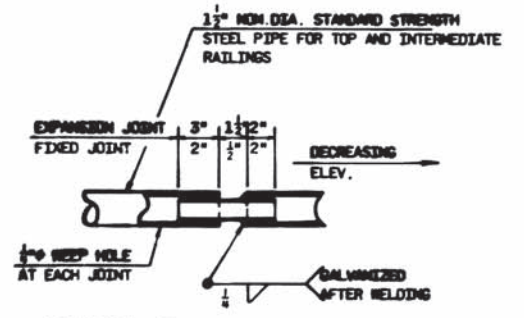
DRAWING NO. A13-S-16

M220-248

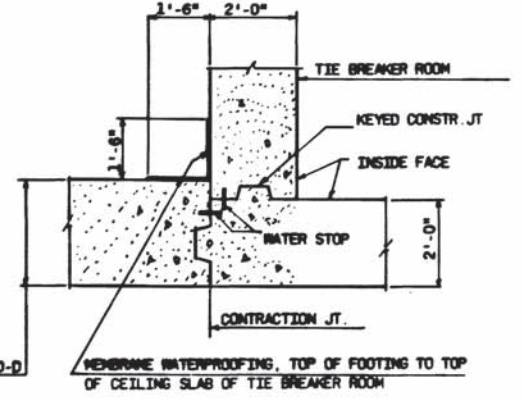
WATER STOP TO BE POLYVINYLCHLORIDE 6"x2"
 ALL FACTORY SUPPLIED OR JOB FABRICATED
 SPLICES SHALL BE MADE WITH A THERMOSTATICALLY CONTROLLED ELECTRIC HEAT SEALING TOOL. A BOND BREAKER SHALL BE APPLIED TO OTHER SURFACE OF JT. (TYP. FOR ALL CONTRACTION AND CONSTRUCTION JTS.)



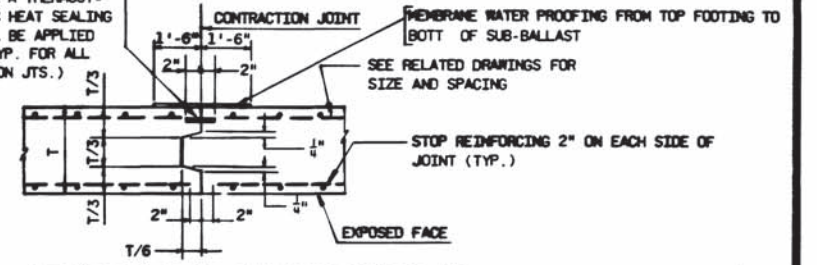
TYPICAL KEY DETAIL AT CONSTRUCTION JT.
 NO SCALE



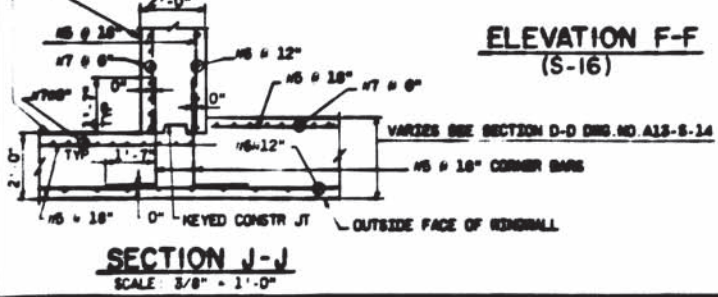
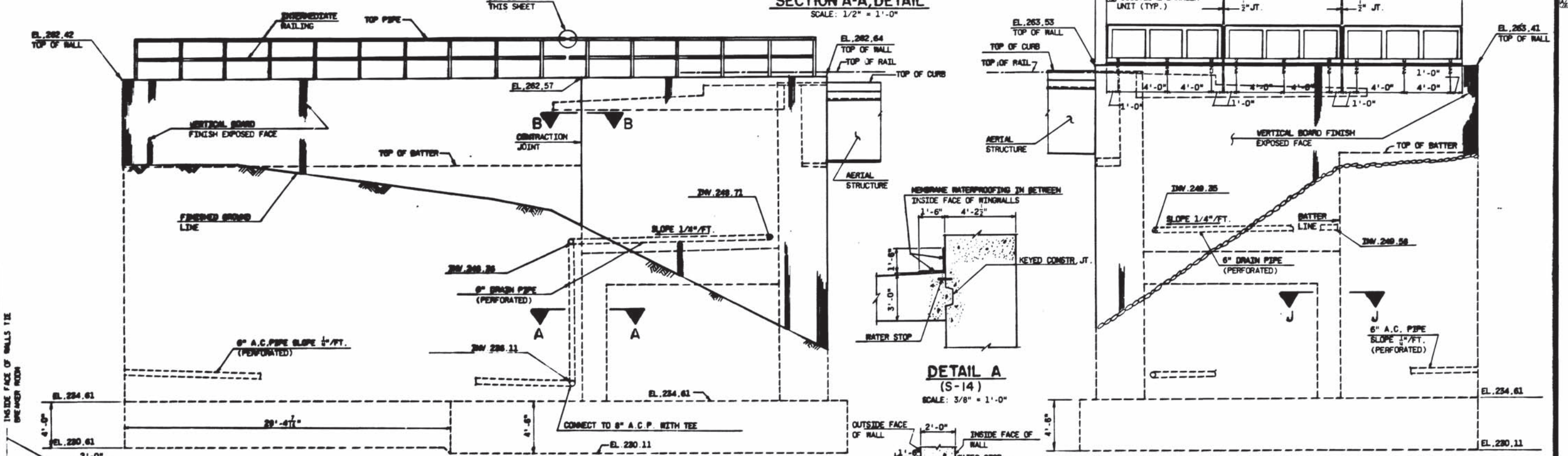
DETAIL A
 NO SCALE



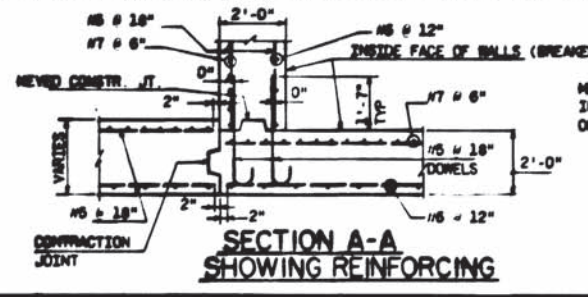
SECTION A-A, DETAIL
 SCALE: 1/2" = 1'-0"



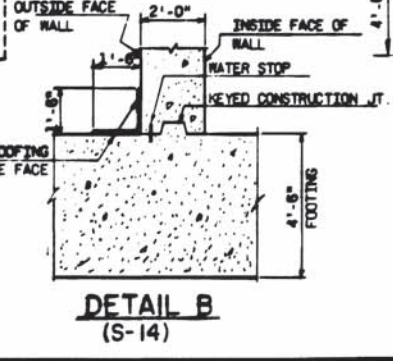
SECTION B-B, CONTRACTION JT.
 NO SCALE



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

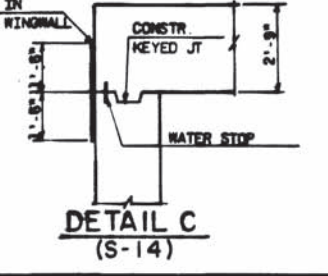


SECTION A-A SHOWING REINFORCING



DETAIL B (S-14)

ELEVATION G-G
 AS-BUILT CONDITION
 MAY 03 1978
 RESIDENT ENGINEER



DETAIL C (S-14)

REVISIONS	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
	1	1-12-78	C.L.		ISSUED ACoustICAL MATERIAL AND REVISED KEY WORD.

REFERENCE DRAWINGS	NUMBER	DESCRIPTION
	A13-S-14	PLAN & ELEV. ABUT. A5460 & TIE BREAKER STA.
	A13-S-14	SECTION ABUT. & TIE BREAKER STATION

APPROVED	DATE
C.P. LEE	4/78
G. PARDOLFI	4/78
T.C. PM	5/78
Field Engineer	10/78

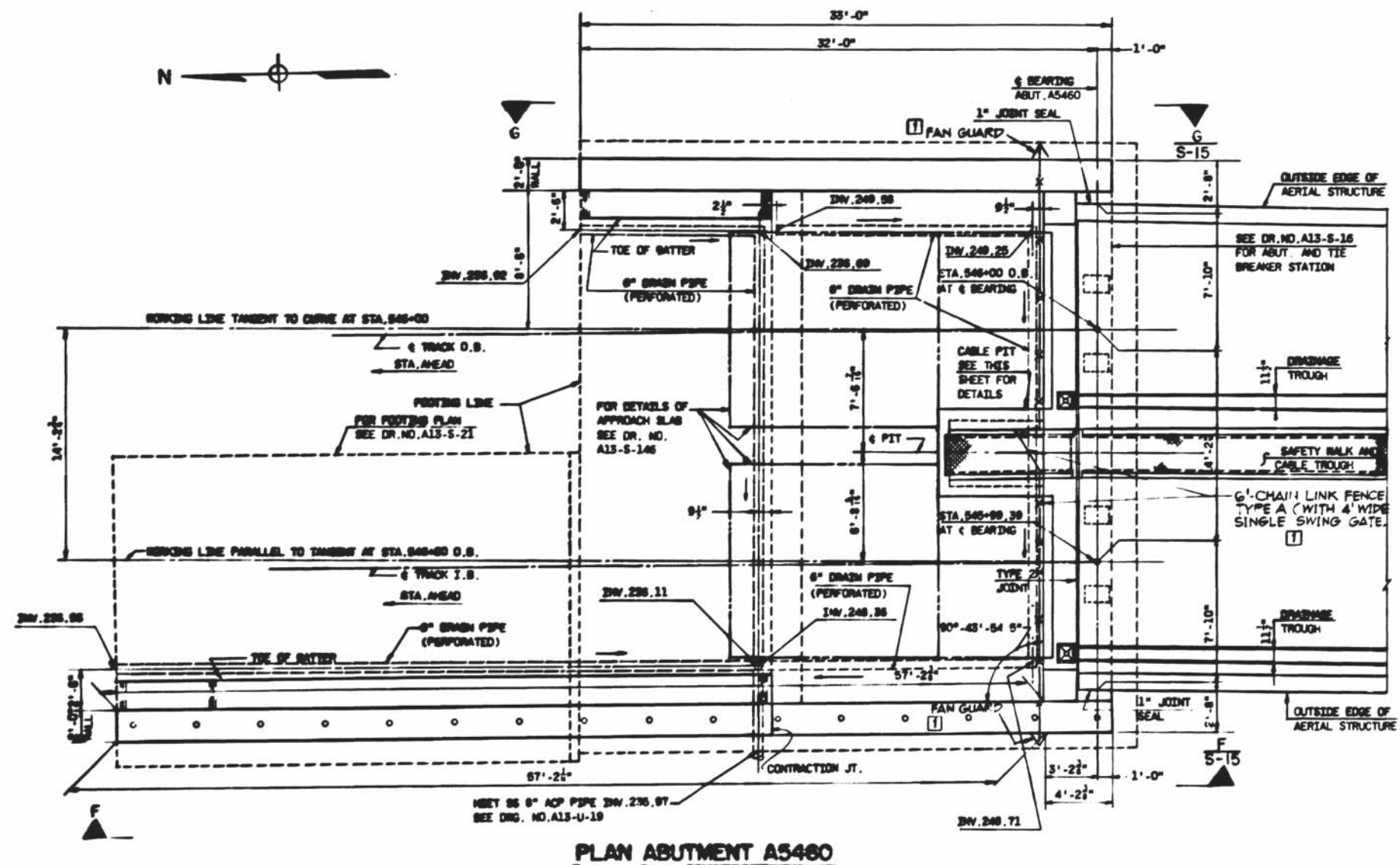
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WESSE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

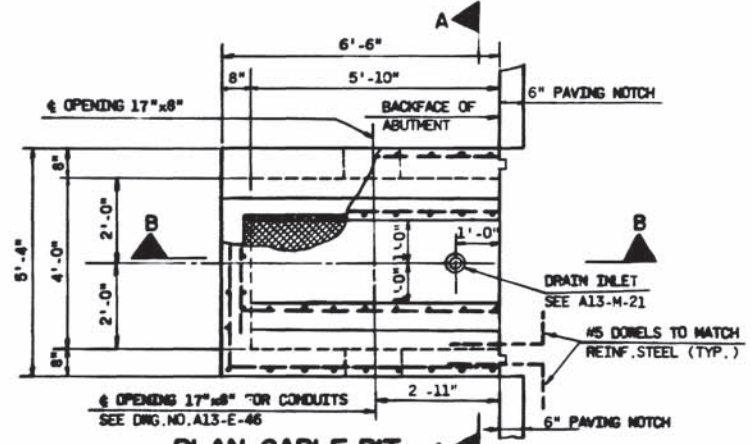
ROCKVILLE ROUTE
 AERIAL STRUCTURE
 WINDOW ELEVATIONS AND DETAILS
 ABUTMENT A5460 O.B. AND I.B.

DRAWING NO. A13-S-15 M220-250

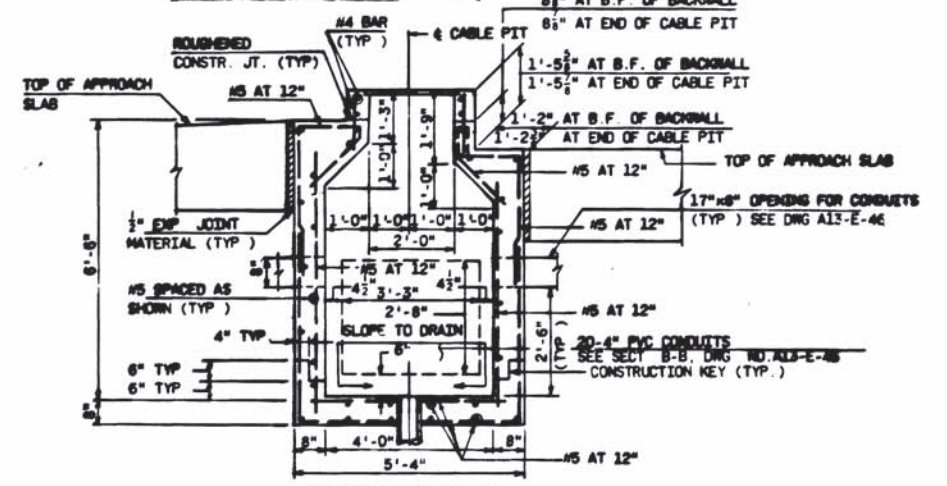


PLAN ABUTMENT A5460

NOTE: SLOPE ALL 6" DRAIN PIPE 1" PER FT. IN DIRECTION SHOWN.

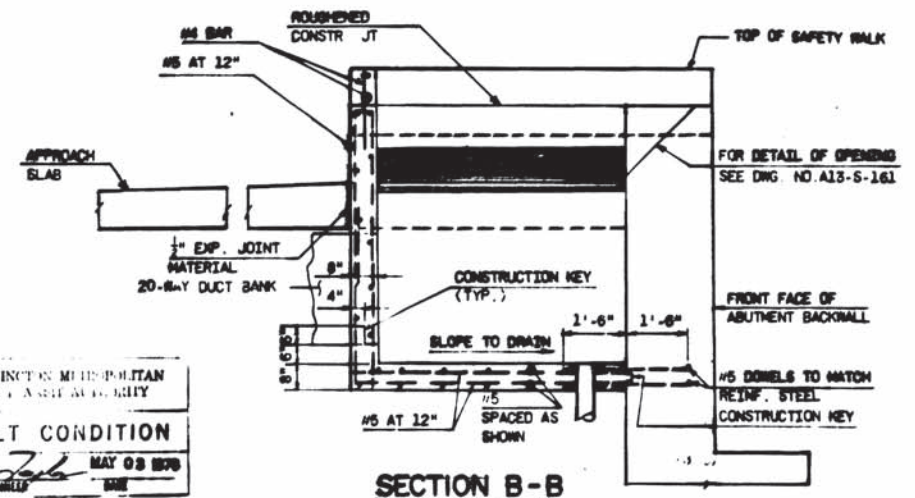


PLAN CABLE PIT



SECTION A-A

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



SECTION B-B

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

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 MAY 03 1978
 HARRY WEZSE & ASSOCIATES

REVISIONS	DATE	BY	DESCRIPTION
1	3-21-78	JD	REVISED PER FIELD CONDITION "AS-BUILT"

REVISIONS	DATE	BY	DESCRIPTION
1	3-21-78	JD	REVISED PER FIELD CONDITION "AS-BUILT"

REVISIONS	DATE	BY	DESCRIPTION
1	3-21-78	JD	REVISED PER FIELD CONDITION "AS-BUILT"

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

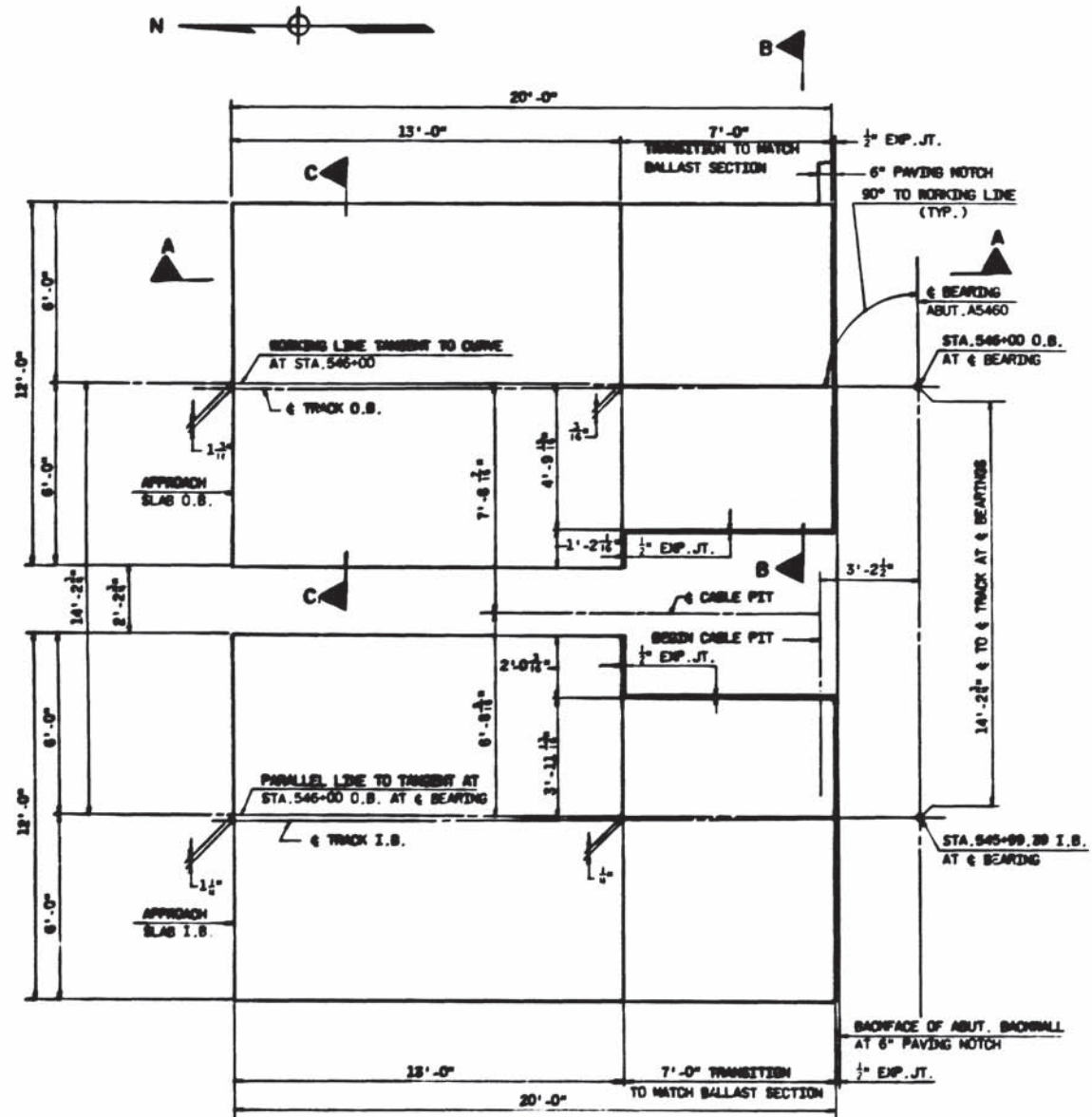
DE LEJW, CATHEN & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEZSE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

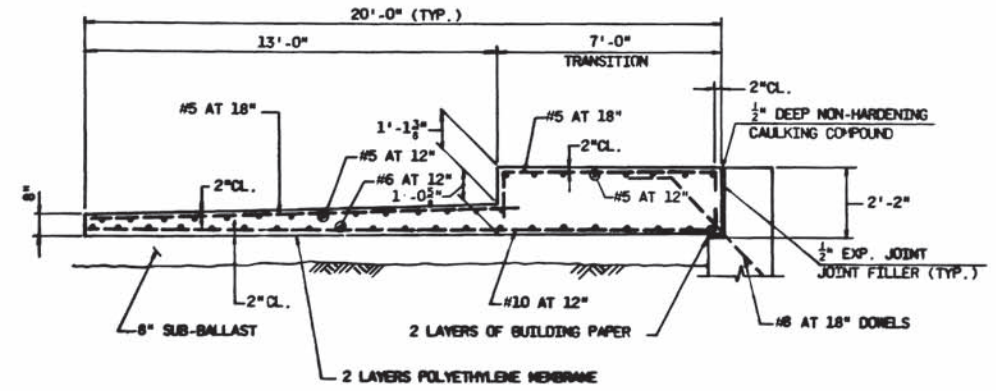
ROCKVILLE ROUTE
 AERIAL STRUCTURE
 GENERAL PLAN & CABLE PIT DETAILS
 ABUTMENT A5460 OB AND IB

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

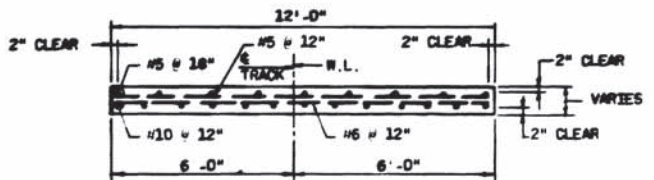
DRAWING NO. **A13-S-18**
 M220-251



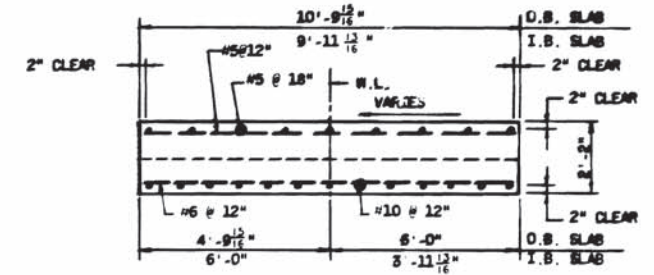
PLAN APPROACH SLAB
SCALE: 3/8" = 1'-0"



SECTION A-A (TYP.)
SCALE: 3/8" = 1'-0"



SECTION C-C (TYP.)
SCALE: 3/8" = 1'-0"



SECTION B-B (TYP.)
SCALE: 3/8" = 1'-0"

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
DATE: MAY 03 1978

REVISIONS	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

REFERENCE DRAWINGS	NUMBER	DESCRIPTION
A13-S-16	PLAN & ELEV. ABUT. A5460 & TIE BREAKER	
A15-S-16	GENERAL PLAN & CABLE PIT DETAILS	



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

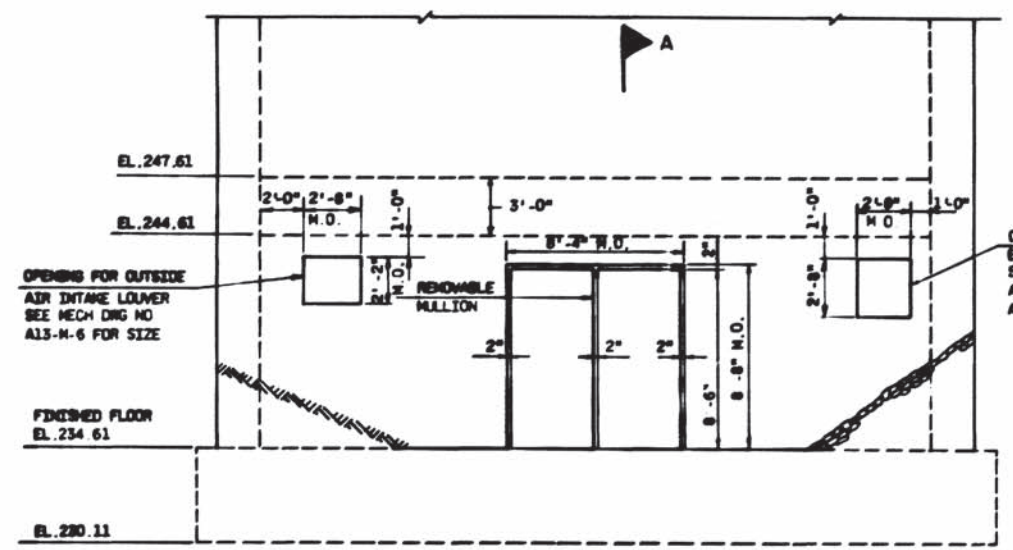
DE LEUW, CATHY & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEEBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

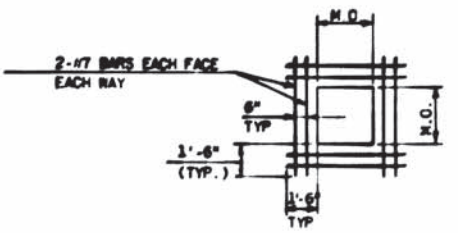
ROCKVILLE ROUTE
AERIAL STRUCTURE
PLAN AND DETAILS APPROACH SLAB
ABUTMENT A5460 O.B. AND I.B.

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

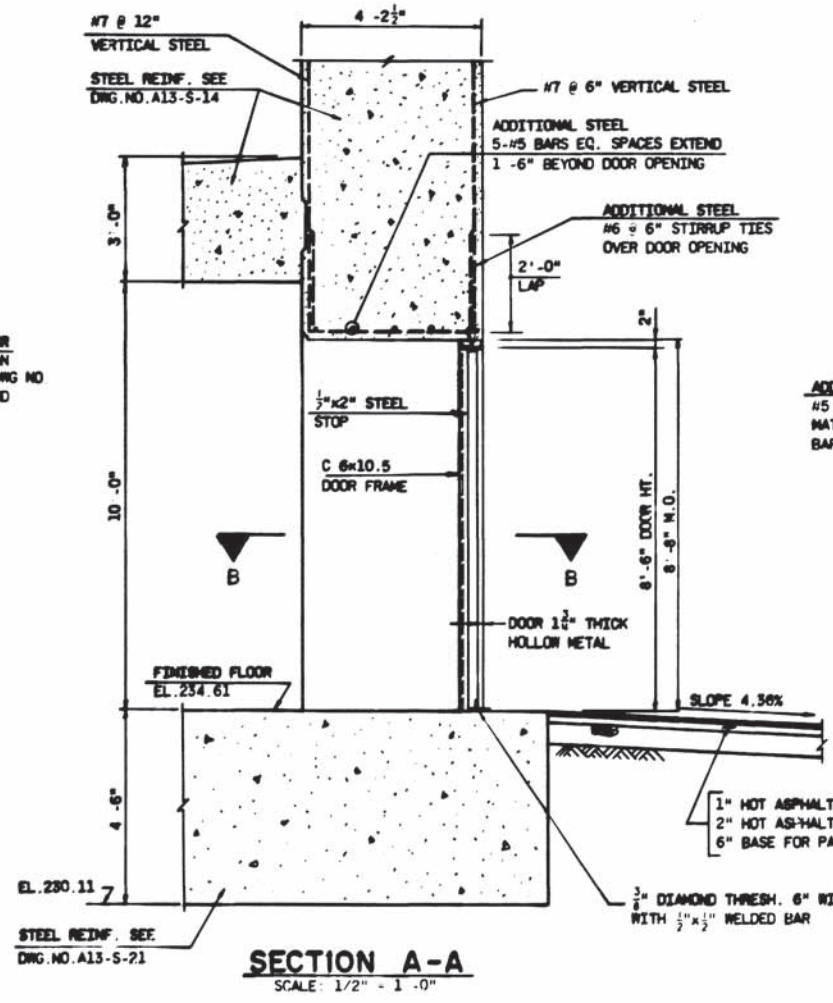
DRAWING NO. A13-S-146 M220-253



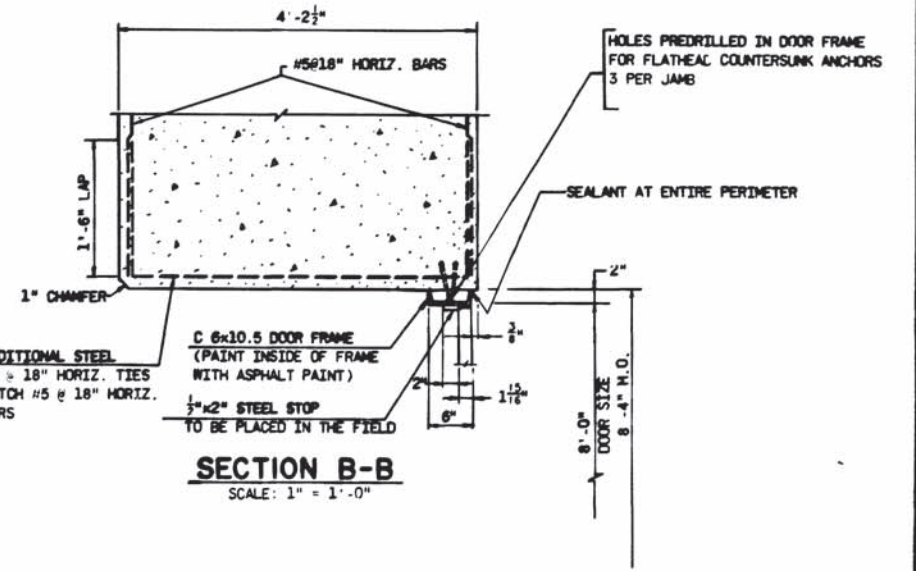
SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



ADDITIONAL REINFORCING AROUND OPENINGS
NO SCALE



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



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

NOTES:
NO ARCHITECTURAL FINISHES FOR INTERIOR FACES OF WALLS OF TIE BREAKER STATION SHALL BE REQUIRED. HOLLOW METAL DOOR SHALL BE PAINTED ACCORDING TO SECTION 910 OF GENERAL PROVISIONS AND STANDARD SPECIFICATIONS FOR CONSTRUCTION PROJECTS, AND SHALL BE PAID UNDER PAY ITEM 153, ARCHITECTURAL FINISHES.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1979
DATE

DESIGNED	C. P. LEE	6/75
DRAWN	G. PARODOLF	6/75
CHECKED	T. C. PAM	6/75
APPROVED	<i>[Signature]</i>	6/75

NUMBER	DESCRIPTION	DATE	BY
A13-S-16	PLAN AND ELEV. ABUT AND TIE BREAKER STATION	1-12-76	C.L.
A13-M-6	SUBSTATION & TIE BREAKER STATION-M.T.V.A.C. PLAN		
A13-M-7	SCHEDULES		

REVISIONS	DESCRIPTION
1	ADD NOTES FOR WALLS AND DOOR FINISHES



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

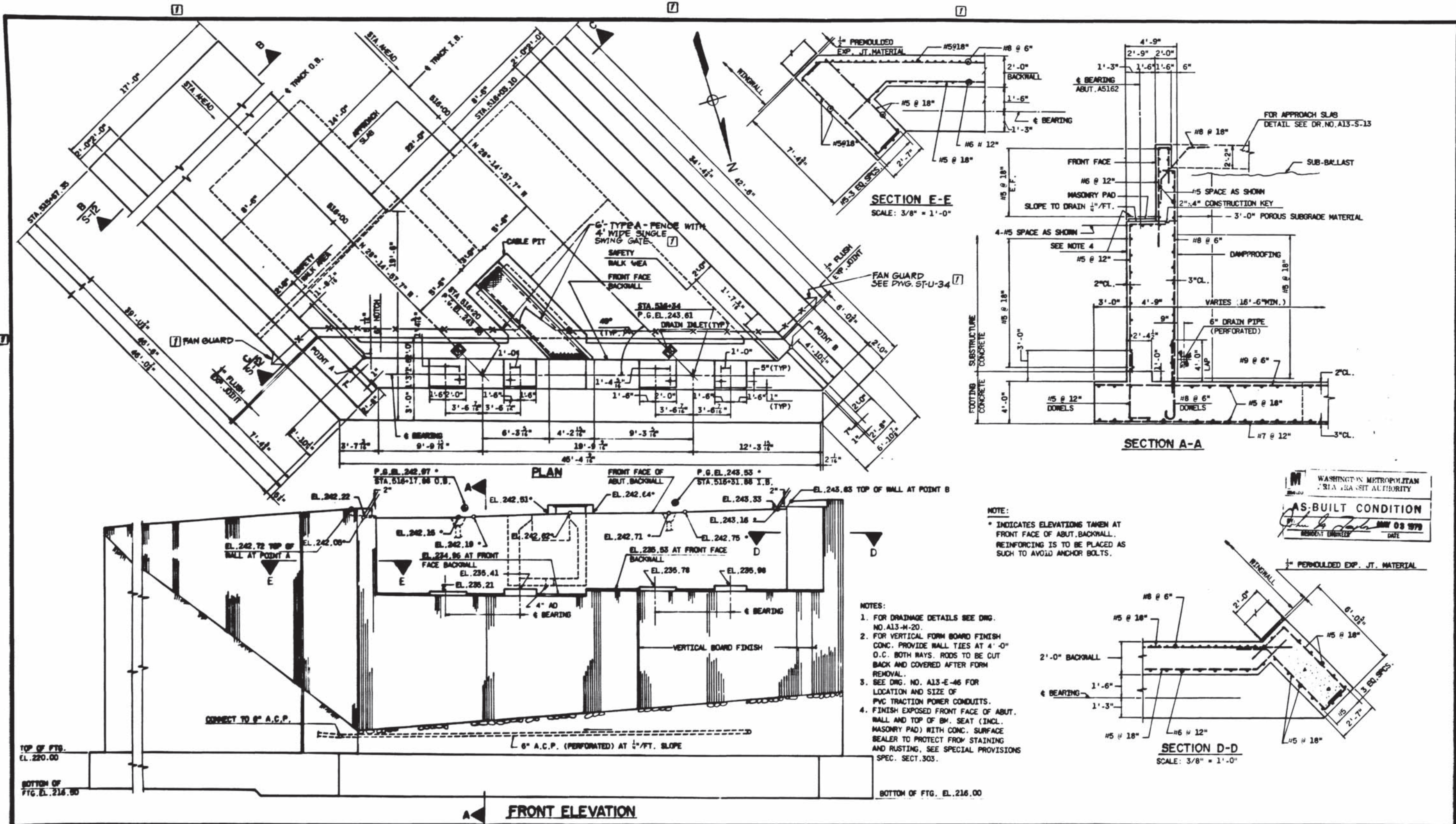
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* APPROVED *[Signature]*

ROCKVILLE ROUTE
AERIAL STRUCTURE
TIE BREAKER STATION AT ABUT. A5460
ELEVATION AND SECTIONS

SCALE: 1/4" = 1'-0" AND AS NOTED

DRAWING NO. **A13-S-163** M220-254



NOTE:
 * INDICATES ELEVATIONS TAKEN AT FRONT FACE OF ABUT. BACKWALL. REINFORCING IS TO BE PLACED AS SUCH TO AVOID ANCHOR BOLTS.

- NOTES:
1. FOR DRAINAGE DETAILS SEE DRG. NO. A13-M-20.
 2. FOR VERTICAL FORM BOARD FINISH CONC. PROVIDE WALL TIES AT 4'-0" O.C. BOTH WAYS. RODS TO BE CUT BACK AND COVERED AFTER FORM REMOVAL.
 3. SEE DRG. NO. A13-E-46 FOR LOCATION AND SIZE OF PVC TRACTION POWER CONDUITS.
 4. FINISH EXPOSED FRONT FACE OF ABUT. WALL AND TOP OF BM. SEAT (INCL. MASONRY PAD) WITH CONC. SURFACE SEALER TO PROTECT FROM STAINING AND RUSTING. SEE SPECIAL PROVISIONS SPEC. SECT. 303.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 REVISION NUMBER DATE
 03 1979

DESIGNED C.P. LEE 3/75
 DRAWN S. WOODRUFF 3/75
 CHECKED Y.C. PAM 4/75
 APPROVED [Signature] 4/75

NUMBER	DESCRIPTION	DATE	BY	REVISION
A13-3-7	KEY PLAN AND ELEVATION, STA. 517+00 TO 526+00	3/75	TL	REV. PER FIELD COND. AS-BUILT
A13-3-11	GEN. PLAN AND MIDWALL ELEV. ABUT. A5162			
A13-3-12	FOOTING PLAN AND MIDWALL SEC. ABUT. A5162			
A13-3-13	APPROACH SLAB AND CABLE PIT DETAILS			
A13-3-14	DRAINAGE PLAN AND SLAB, ABUT. A5162			
A13-3-110	BEARING ASSUMPTIONS			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT

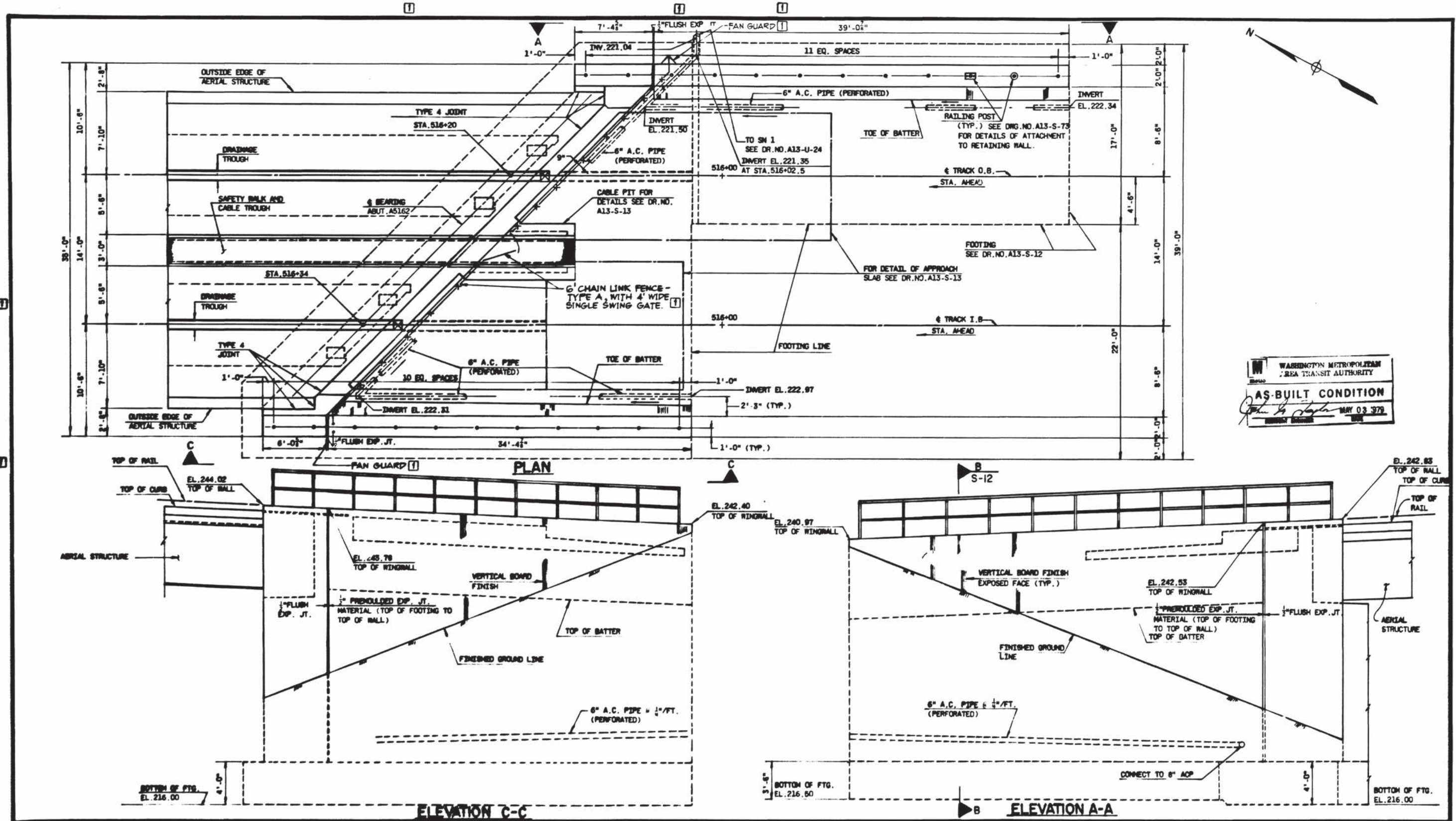
HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED [Signature]
 APPROVED [Signature]

ROCKVILLE ROUTE AERIAL STRUCTURE PLAN & ELEVATION ABUTMENT A5162 O.B. AND I.B.

SCALE: 1/4" = 1'-0" AND AS NOTED

DRAWING NO. A13-S-10 M220-255



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 MAY 03 1979

DESIGNED	G.P. LEE	3/75
DRAWN	G. PANDOLFINO	3/76
CHECKED	V.C. PEE	5/75

NUMBER	DESCRIPTION	DATE	BY	REVISIONS
A13-S-10	PLAN AND ELEVATION ABUT. A5162	3/25/75	GL	11 REV PER FIELD COND AS-BUILT
A13-S-12	FOOTING PLAN AND WINGWALL SECTIONS			
A13-S-13	APPROACH SLAB AND CABLE PIT DETAILS			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEBER & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTING

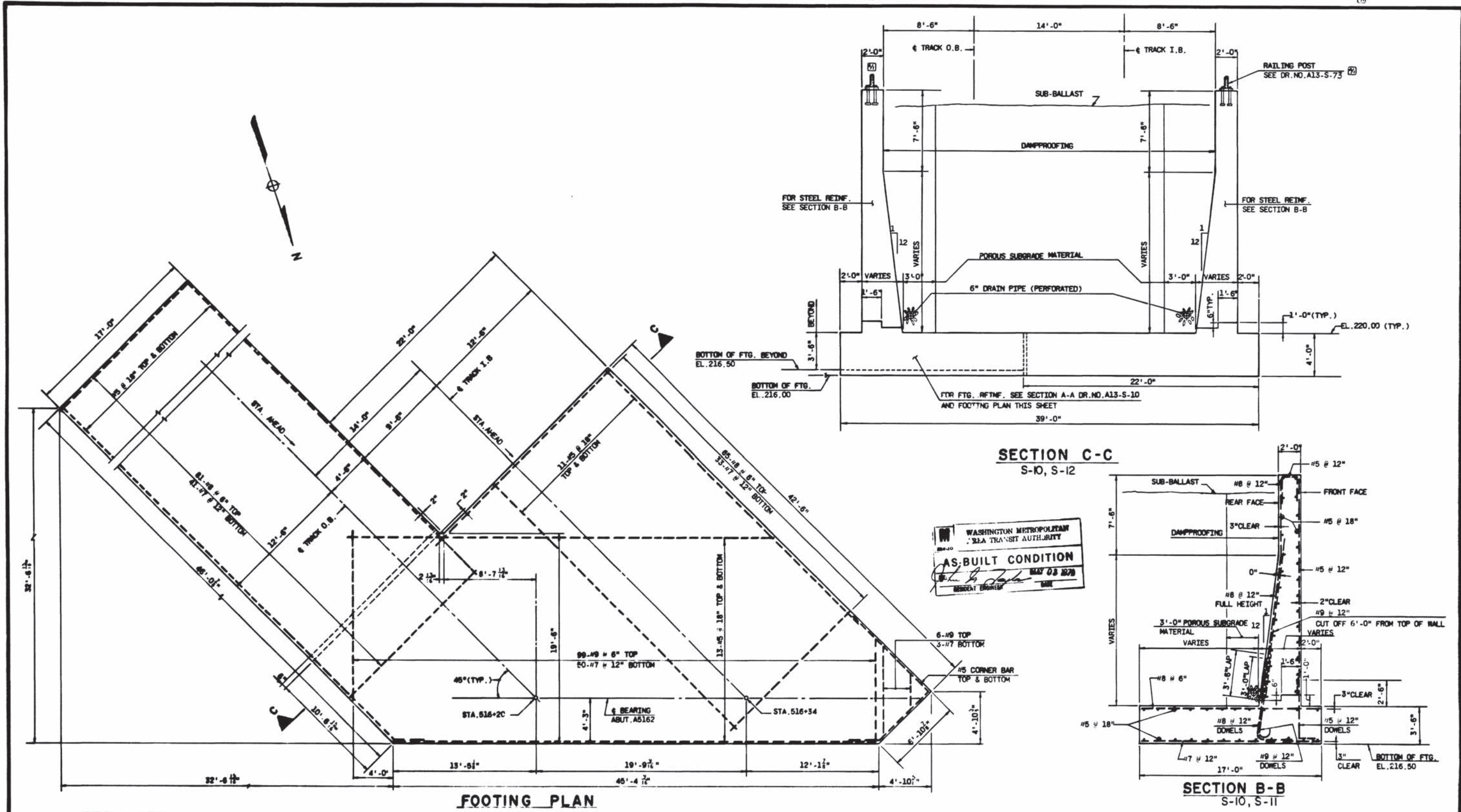
APPROVED: *[Signature]*

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 GENERAL PLAN AND WINGWALL ELEVATIONS
 ABUTMENT A5162 O.B. AND I.B.

SCALE: 1/4" = 1'-0" AND AS NOTED

DRAWING NO. A13-S-11

M220-256



WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 MAY 03 1978
 RESIDENT ENGINEER

DESIGNED	S.P. LEE	8/75
DRAWN	S.P. BROWLING	8/75
CHECKED	T.C. PAN	8/75
APPROVED	<i>John C. Brown</i>	10/75

NUMBER	DESCRIPTION	DATE	BY
A13-S-10	PLAN AND ELEVATION ABUT. A5162	C.E.	1-9-76
A13-S-11	GEN. PLAN AND WINGWALL SECTIONS		

REVISIONS	DESCRIPTION
1	REVISED TO REFLECT TRACK NO. AND RAIL POST ANCHORAGE DETAILS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT

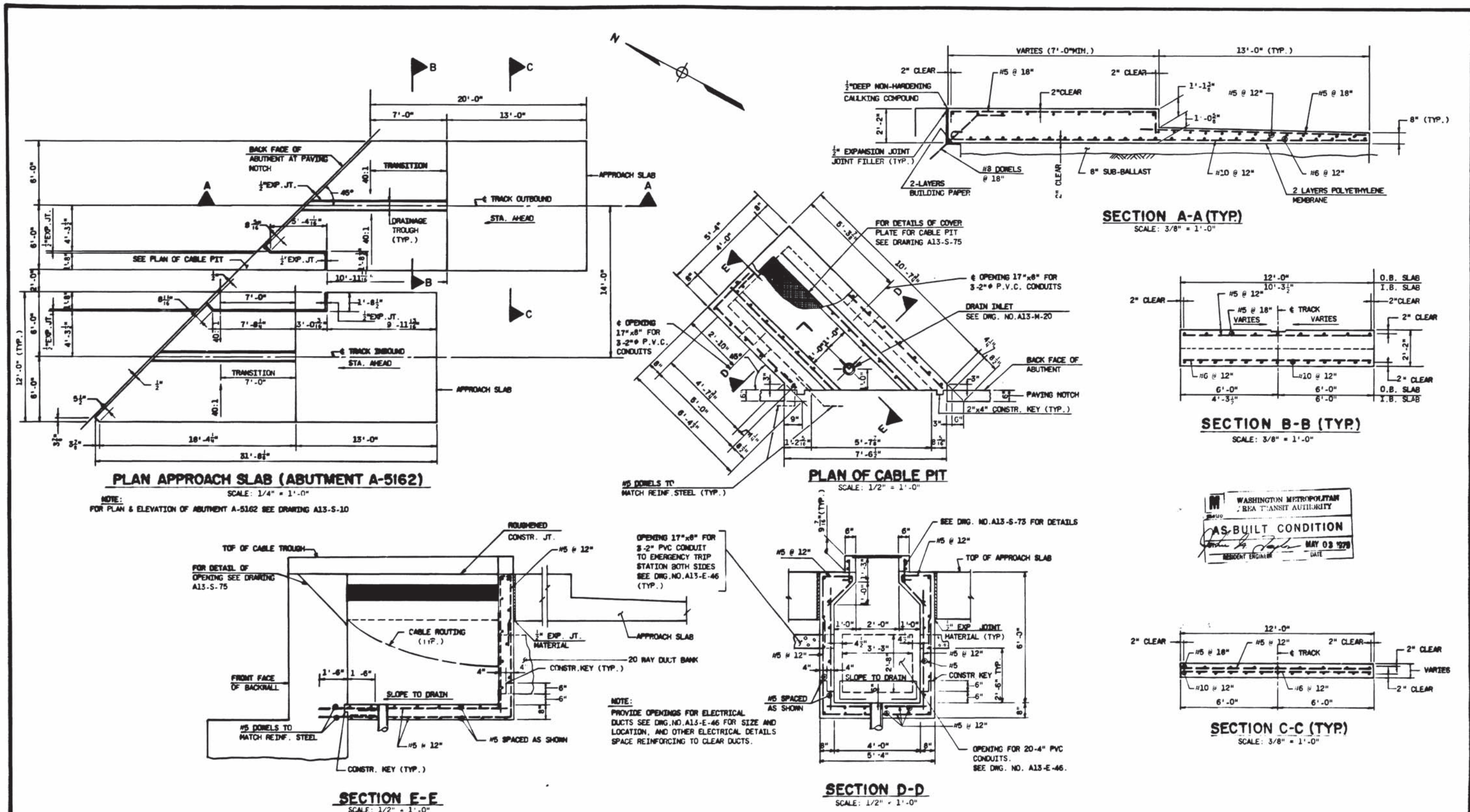
HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* APPROVED *[Signature]*

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 FOOTING PLAN AND WINGWALL SECTIONS
 ABUTMENT A5162 OB AND IB

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

DRAWING NO. A13-S-12 M220-257



NOTE:
FOR PLAN & ELEVATION OF ABUTMENT A-5162 SEE DRAWING A13-S-10

#5 DOMELS TO
MATCH REINF. STEEL (TYP.)

OPENING 17"x8" FOR
3-2" P.V.C. CONDUIT
TO EMERGENCY TRIP
STATION BOTH SIDES
SEE DNG. NO. A13-E-46
(TYP.)

NOTE:
PROVIDE OPENINGS FOR ELECTRICAL
DUCTS SEE DNG. NO. A13-E-46 FOR SIZE AND
LOCATION, AND OTHER ELECTRICAL DETAILS
SPACE REINFORCING TO CLEAR DUCTS.

SEE DNG. NO. A13-S-75 FOR DETAILS

OPENING FOR 20-4" PVC
CONDUITS.
SEE DNG. NO. A13-E-46.

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
RESIDENT ENGINEER DATE
MAY 03 1978

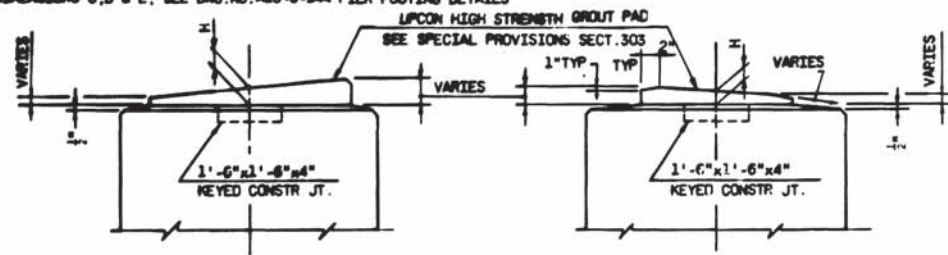
DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
C.P. LEE	3/75	A13-S-10	PLAN AND ELEVATION ABUT. A5162			
G. PARDOLFINO	3/75	A13-S-75	SAFETY WALK AND CABLE TROUGH DETAILS			
Y.C. PAN	5/75					
APPROVED	10/75					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		ROCKVILLE ROUTE	
SECTION DESIGNER BUCHART-HORN CONSULTING ENGINEERS AND PLANNERS		AERIAL STRUCTURE APPROACH SLAB & CABLE PIT DETAILS ABUTMENT A5162 O.B. AND I.B.	
DE LEUW, CATHAR & COMPANY GENERAL ENGINEERING CONSULTANT		DRAWING NO. A13-S-13	
HARRY WEISZ & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT		M220-258	
SCALE: 1/4" = 1'-0" AND AS NOTED		DATE: MAY 03 1978	

COLUMN SCHEDULE

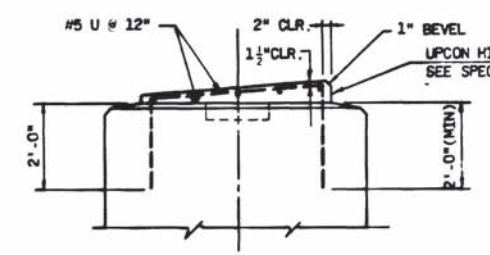
PIER NO. OR FRAME NO.	STATION I.B.	STATION O.B.	DIM. 'C' & TO TRACK	OFFSET		TOP OF COLUMN ELEV.	TOP OF FOOTING ELEV.	BOTTOM FOOTING ELEV.	COLUMN DIA.	H	BEARING & PIER OR FRAME	BARS A	BARS B	PITCH	DIM. F	DIM. G	REMARKS
				DIM. 'D'	DIM. 'E'												
5186	518+64	518+64	14'-0"	7'-0"	7'-0"	244.72	211.00	205.00	6'-6"	5 1/4"	S 61°-45'-2.3" W	30#18	5/8"	3 3/8"	4'-2"	5'-0"	
5199	519+92.05	519+92	14'-0 7/16"	7'-0 7/16"	7'-0 7/16"	249.73	217.00	212.00	6'-6"	6 1/2"	S 61°-57'-22.3" W	17#18	5/8"	3 3/8"	4'-2"	5'-0"	
5212	521+20.33	521+20	14'-2 1/16"	7'-1 1/16" (+)	7'-1 1/16" (+)	253.89	227.00	221.00	6'-6"	8 3/8"	S 63°-05'-43.2" W	24#18	5/8"	3 3/8"	4'-2"	5'-0"	
5238	523+85.53	523+84	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	259.68	221.00	216.00	7'-6"	9 3/8"	S 67°-55'-39.5" W	44#18	5/8"	3 3/8"	4'-2"	6'-3"	
5248	524+86.02	524+84	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	261.88	223.00	218.00	6'-6"	8 3/8"	S 69°-54'-47.1" W	22#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5258	525+84.51	525+82	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	262.52	225.00	220.00	6'-6"	8 3/8"	S 71°-51'-32.1" W	36#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5268	526+82.88	526+80	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	262.63	225.00	220.00	6'-6"	8 3/8"	S 73°-48'-16.7" W	24#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5279	527+85.54	527+82	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	262.27	232.00	227.00	6'-6"	8 3/8"	S 76°-01'-42.1" W	33#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5290	529+08.10	529+04	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	261.87	241.00	236.00	6'-6"	8 3/8"	S 78°-15'-7.6" W	19#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5302	530+20.65	530+16	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	261.48	239.00	234.00	6'-6"	8 3/8"	S 80°-28'-33.2" W	20#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5313	531+83.20	531+28	14'-2 3/8"	7'-1 7/16"	7'-1 7/16"	261.08	239.00	234.00	6'-6"	8 3/8"	S 82°-41'-58.2" W	19#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5324	532+45.74	532+40	14'-2 1/16"	7'-1 1/16" (+)	7'-1 1/16" (+)	260.70	239.00	234.00	6'-6"	8 3/8"	S 84°-52'-14.5" W	20#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5335	533+88.13	533+52	14'-1 1/16"	7'-0 1/16" (+)	7'-0 1/16" (+)	260.33	235.00	230.00	6'-6"	6 3/8"	S 86°-25'-45" W	13#18	5/8"	3 3/8"	3'-8"	5'-4 1/2"	
5345	534+80.31	534+54	14'-0 3/16"	7'-0 3/16" (+)	7'-0 3/16" (+)	260.00	232.00	227.00	6'-0"	5 1/4"	S 87°-11'-1.6" W	23#18	5/8"	3 3/8"	3'-8"	4'-9"	
5356	535+56	535+56	14'-0"	7'-0"	7'-0"	259.62	233.00	228.00	6'-0"	4 3/8"	S 87°-20'-6.9" W	17#18	5/8"	3 3/8"	3'-8"	4'-9"	
5366	536+58.02	536+58	14'-0 1/16"	7'-0 1/16"	7'-0 1/16"	259.30	233.00	228.00	6'-0"	4 3/8"	S 87°-24'-27.2" W	23#18	5/8"	3 3/8"	3'-8"	4'-9"	
5376	537+80.19	537+80	14'-1 1/16"	7'-0 1/16" (+)	7'-0 1/16" (+)	256.41	232.00	227.00	6'-6"	6 3/8"	S 88°-06'-33" W	18#18	5/8"	3 3/8"	4'-8"	4'-10"	
5392	539+20.65	539+20	14'-2 1/16"	7'-1 1/16" (+)	7'-1 1/16" (+)	255.82	226.00	219.00	7'-6"	8 3/8"	N 89°-19'-17.1" W	44#18	5/8"	3 3/8"	4'-8"	5'-10"	
5403	540+31.36	540+30	14'-2 1/16"	4'-7 1/16"	9'-7 1/16"	255.32	225.00	219.00	7'-0"	7 3/8"	N 87°-10'-54.8" W	32#18	5/8"	3 3/8"	4'-8"	5'-10"	
5435	543+80	543+80	14'-0"	7'-0"	7'-0"	254.33	222.00	217.00	6'-6"	4 3/8"	N 85°-03'-24.2" W	19#18	5/8"	3 3/8"	4'-8"	4'-10"	
5447	544+74.87	544+75	14'-1 1/8"	7'-0 1/8"	7'-0 1/8"	255.41	226.00	221.00	6'-6"	5 1/4"	N 85°-35'-08.5" W	28#18	5/8"	3 3/8"	4'-2"	5'-0"	
A5174 WEST	517+83.92	517+42	16'-2"	57'-10"	-	237.00	218.50	214.00	7'-0"	4"	S 31°-45'-02.2" W	28#18	5/8"	3 3/8"	-	-	
A5174 EAST				49'-0"		239.38	209.50	205.00	7'-0"	4"		28#14	5/8"	3 3/8"	-	-	
A5225 WEST	522+85.94	522+82	15'-10"	45'-2"	-	252.65	222.50	217.00	7'-0"	4"	S 39°-18'-24" W	34#18	5/8"	3 3/8"	-	-	
A5225 EAST				52'-0"		253.48	218.00	213.00	7'-0"	4"		28#14	5/8"	3 3/8"	-	-	
A5419 WEST	541+81.82	541+80	14'-0 1/2"	19'-11 1/2"	-	254.25	223.00	217.00	7'-0"	4"	N 85°-18'-23.1" W	34#18	5/8"	3 3/8"	-	-	
A5419 EAST				31'-0"		254.24	223.00	217.00	7'-0"	4"		34#14	5/8"	3 3/8"	-	-	

NOTE: OR LOCATION OF DIMENSIONS C, D & E, SEE DRG. NO. A13-S-144 PIER FOOTING DETAILS

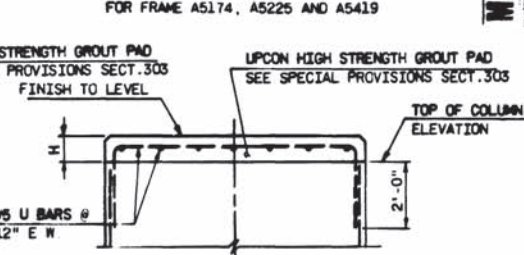


SECTION A-A

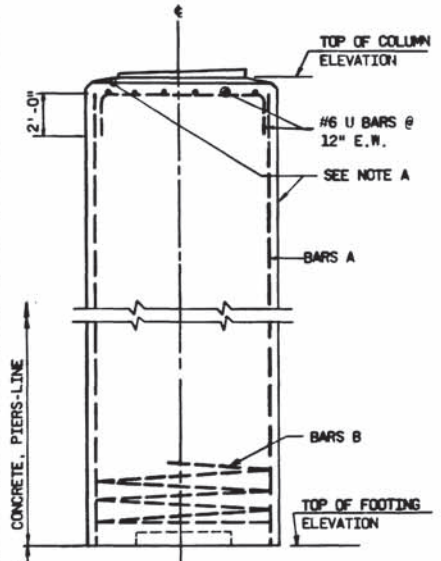
SECTION B-B



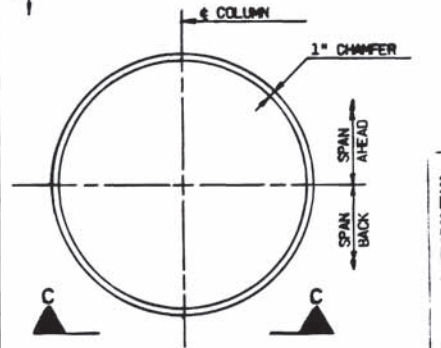
GROUT PAD REINFORCEMENT DETAIL



SECTION C-C

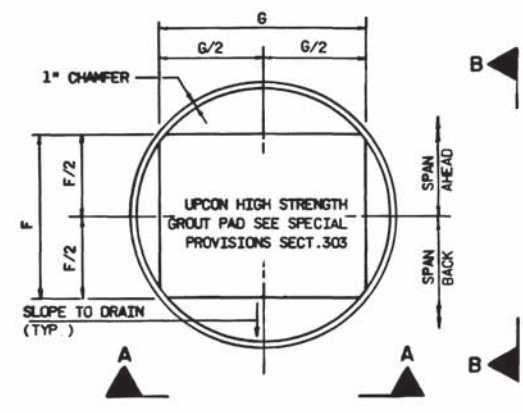


COLUMN ELEVATION



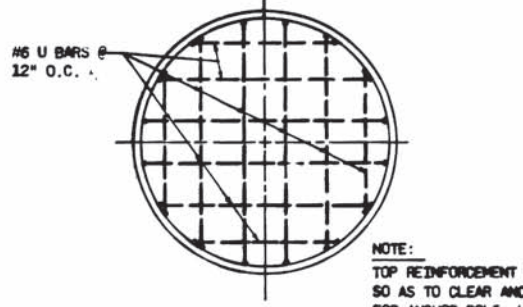
COLUMN PLAN

FOR FRAME A5174, A5225 AND A5419

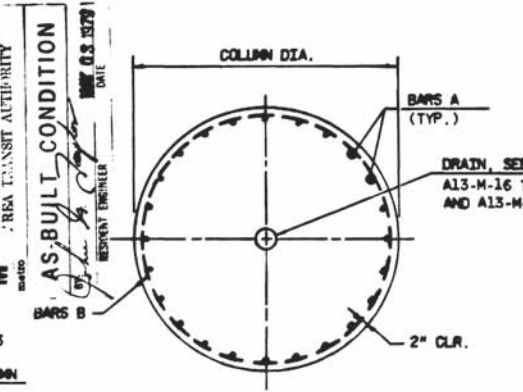


COLUMN PLAN

NOTE: COPE THE GROUT PAD AT CHAMFER LINE WHERE IT EXTENDS BEYOND THE COLUMN LINE.



TYPICAL TOP REINFORCEMENT



TYPICAL COLUMN SECTION

DATE	BY	DESCRIPTION
10/15/76	G.P.	BAR DESIGNATION CHANGED PER P.C.O.#6



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

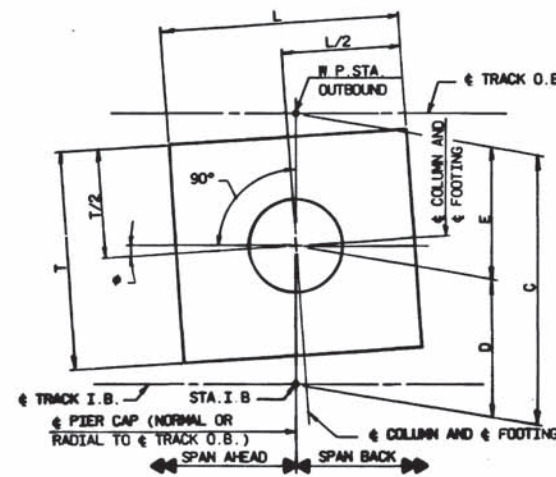
SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHNER & COMPANY
GENERAL ENGINEERING CONSULTANT

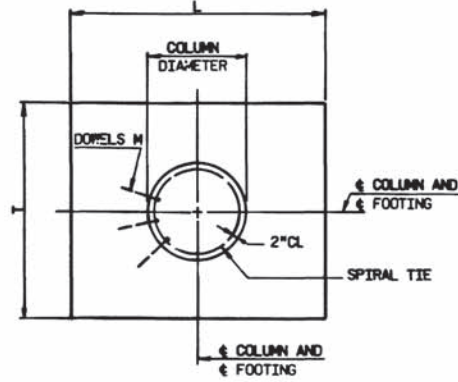
HARRY WIEBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
AERIAL STRUCTURE
COLUMN SCHEDULE AND DETAILS

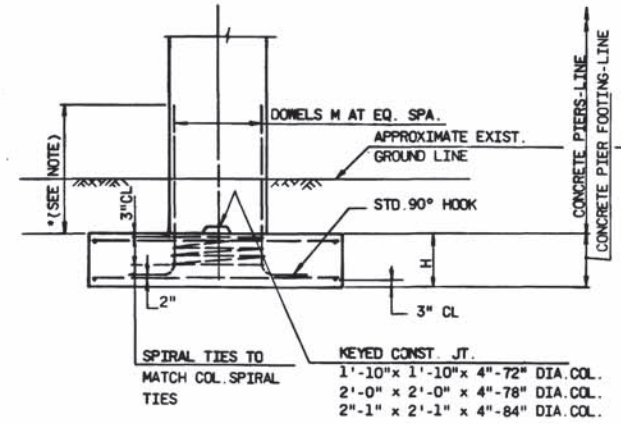
SCALE: N.O. SCALE
DRAWING NO.: A13-S-140
M220-259



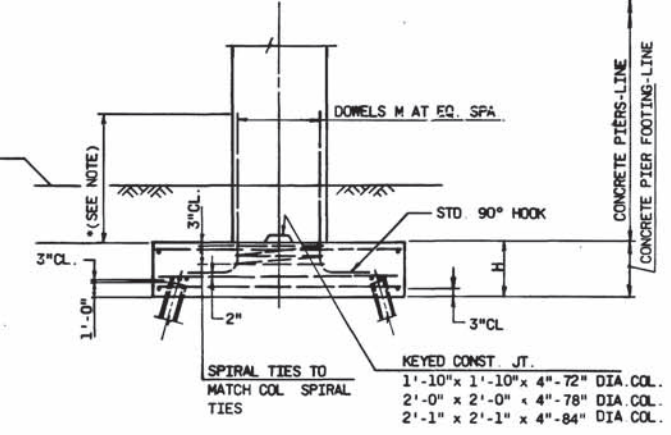
FOOTING LAYOUT AT PIERS



PLAN-FOOTING DOWEL REINF.



**ELEVATION-FOOTING DOWEL REINF.
(WITHOUT PILES)**



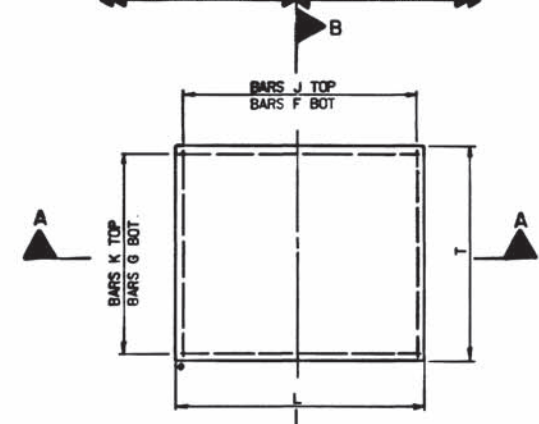
**ELEVATION-FOOTING DOWEL REINF.
(WITH PILES)**

***NOTE:**
 SPLICES OF COLUMN BARS TO DOWEL BARS SHALL BE MADE ONLY BY FULL PENETRATION BUTT WELDS.
 LAP SPLICES WILL NOT BE PERMITTED.
 MINIMUM EXTENSION OF DOWELS ABOVE TOP OF FOOTING SHALL BE 2'-0".

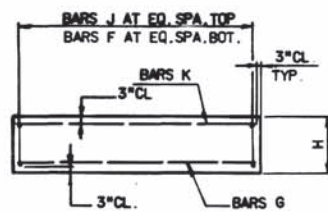
NOTE:
 THIS SHEET TO BE USED IN CONJUNCTION WITH DWG. NO. A13-S-145 AND DWG. NO. A13-S-140.

ALL PILES SHALL BE HP 12x74. MAXIMUM DESIGN LOADS FOR PILES ARE 95 TONS PER PILE.

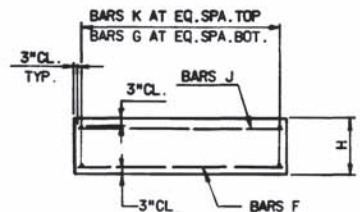
← INDICATES DIRECTION OF BATTER. (1:4)
 MAXIMUM DESIGN PRESSURE FOR SPREAD FOOTINGS ARE 4 TONS PER SQ. FOOT.
 ⊙ INDICATES TEST PILE.
 LOAD TEST ONE TEST PILE FOR EACH PILE FOOTING.



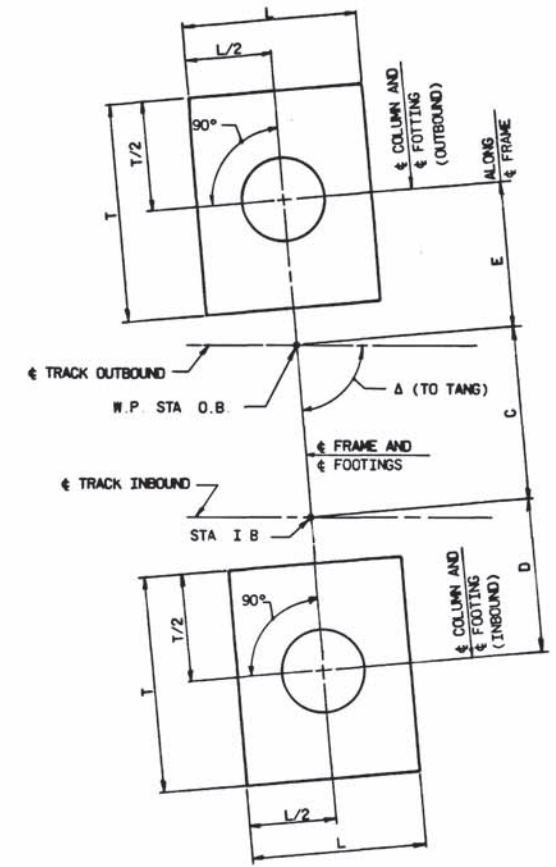
**PLAN-FOOTING REINF.
(WITHOUT PILES)**



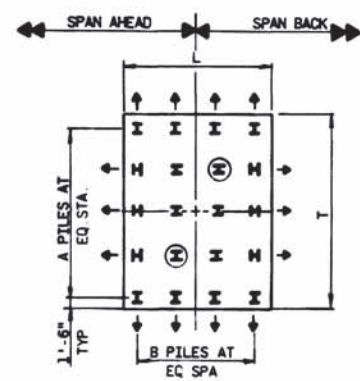
SECTION A-A



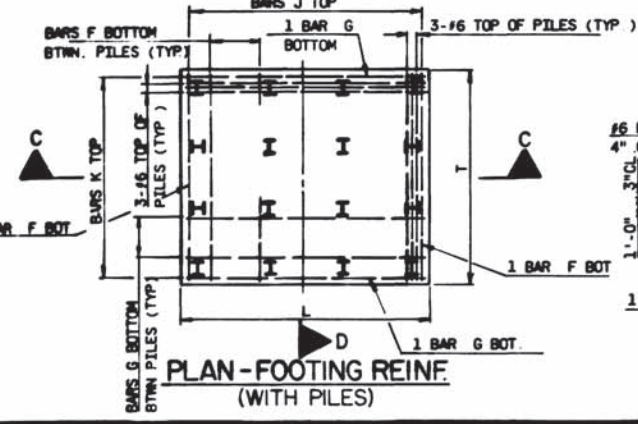
SECTION B-B



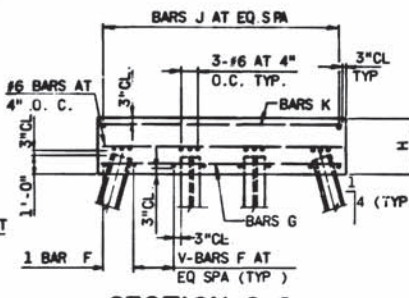
FOOTING LAYOUT AT FRAMES



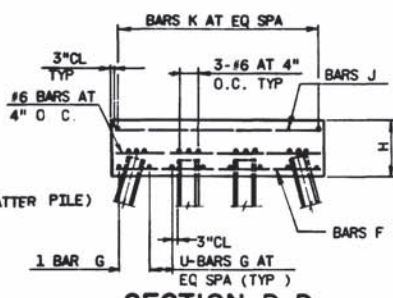
PILING PATTERN



**PLAN-FOOTING REINF.
(WITH PILES)**



SECTION C-C



SECTION D-D

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
A13-S-2	KEY PLAN AND ELEV. STA. 547+00 TO 586+00						
A13-S-3	" " " " STA. 536+00 TO 525+00						
A13-S-4	" " " " STA. 525+00 TO 515+20						
A13-S-145	PIER FOOTING SCHEDULE AND UTIL. PROV. DETAILS						
A13-S-140	COLUMN SCHEDULE AND DETAILS						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

**ROCKVILLE ROUTE
 AERIAL STRUCTURE
 PIER FOOTING DETAILS**

SCALE: NO SCALE

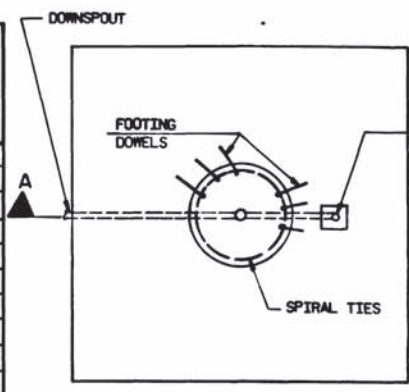
DRAWING NO. A13-S-144

M220-260

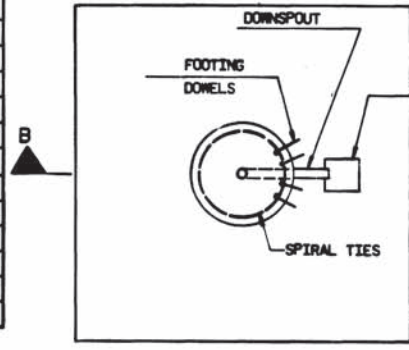
AS-BUILT CONDITION
 DATE: MAY 03 1979

FOOTING SCHEDULE															ACTUAL DESIGN LOAD (TONS/SQ. FT.)			
PIER NO. OR FRAME NO.	STATION O.B.	ANGLE		BOTTOM FOOTING ELEVATION	FOOTING DIMENSIONS			PILING		COLUMN DIA.	FOOTING REINFORCEMENT							
		φ	Δ		T	L	H	NO. OF PILES			V	U	BARS-F	BARS-G		BARS-J	BARS-K	DOWELS M
A5186	518+64.00	15°	-	205.00	23'-0"	29'-0"	6'-0"	-	-	6'-6"	-	-	58-#10	52-#11	29-#7	23-#7	30-#18	4.02
A5199	519+92.00	0°	-	212.00	21'-0"	20'-0"	5'-0"	-	-	6'-6"	-	-	40-#9	42-#9	20-#6	21-#6	17-#18	3.53
A5212	521+20.00	24°	-	221.00	27'-0"	26'-0"	6'-0"	-	-	6'-6"	-	-	52-#11	54-#11	26-#6	27-#6	24-#18	3.92
A5238	523+84.00	31°	-	216.00	31'-0"	31'-0"	5'-0"	5	5	7'-6"	10	#14	10	#14	31-#6	31-#6	44-#18	96°
A5248	524+84.00	0°	-	218.00	23'-0"	23'-0"	5'-0"	-	-	6'-6"	-	-	46-#10	46-#10	23-#6	23-#6	22-#18	3.93
A5258	525+82.00	0°	-	220.00	23'-0"	27'-0"	5'-0"	-	-	6'-6"	-	-	54-#10	54-#11	27-#9	23-#9	36-#18	3.95
A5268	526+80.00	0°	-	220.00	23'-0"	23'-0"	5'-0"	-	-	6'-6"	-	-	46-#10	46-#10	23-#6	23-#6	24-#18	3.93
A5279	527+92.00	0°	-	227.00	26'-0"	25'-0"	5'-0"	-	-	6'-6"	-	-	54-#11	52-#11	25-#8	26-#8	33-#18	3.88
A5290	529+04.00	0°	-	236.00	25'-0"	23'-0"	5'-0"	-	-	6'-6"	-	-	46-#11	50-#10	23-#7	25-#7	19-#18	3.70
A5302	530+16.00	0°	-	234.00	25'-0"	25'-0"	5'-0"	-	-	6'-6"	-	-	80-#11	50-#11	25-#7	25-#7	20-#18	3.88
A5313	531+28.00	0°	-	234.00	25'-0"	23'-0"	5'-0"	-	-	6'-6"	-	-	46-#11	50-#10	23-#7	25-#7	19-#18	3.70
A5324	532+40.00	0°	-	234.00	25'-0"	25'-0"	5'-0"	-	-	6'-6"	-	-	90-#11	50-#11	25-#7	25-#7	20-#18	3.88
A5335	533+52.00	0°	-	230.00	22'-0"	22'-0"	5'-0"	-	-	6'-6"	-	-	44-#10	44-#10	22-#7	22-#7	13-#18	3.83
A5345	534+54.00	0°	-	227.00	22'-0"	25'-0"	5'-0"	-	-	6'-0"	-	-	90-#10	44-#11	25-#7	22-#7	23-#18	3.94
A5356	535+56.00	0°	-	228.00	22'-0"	22'-0"	5'-0"	-	-	6'-0"	-	-	44-#10	44-#10	22-#7	22-#7	17-#18	3.83
A5366	536+58.00	0°	-	228.00	22'-0"	25'-0"	5'-0"	-	-	6'-0"	-	-	50-#10	44-#11	25-#7	22-#7	23-#18	3.94
A5376	537+60.00	0°	-	227.00	22'-0"	21'-0"	5'-0"	-	-	6'-6"	-	-	42-#10	44-#9	21-#6	22-#6	18-#18	3.81
A5392	539+20.00	0°	-	219.00	27'-0"	33'-0"	7'-0"	-	-	7'-8"	-	-	66-#10	54-#14	33-#10	27-#10	44-#18	4.00
A5403	540+30.00	8°	-	219.00	26'-0"	26'-0"	6'-0"	-	-	7'-0"	-	-	52-#11	52-#11	26-#9	26-#9	32-#18	3.98
A5435	543+50.00	0°	-	217.00	19'-0"	15'-0"	5'-0"	5	4	6'-6"	6	#11	6	#8	15-#6	19-#6	19-#18	75.5*
A5447	544+75.00	0°	-	221.00	25'-0"	25'-0"	5'-0"	-	-	6'-6"	-	-	50-#11	50-#11	25-#8	25-#8	28-#18	3.90
A5174 WEST	517+42.00	60°	-	214.00	21'-0"	18'-0"	4'-6"	-	-	7'-0"	-	-	36-#9	42-#9	18-#6	21-#6	28-#18	3.90
A5174 EAST			-	205.00	18'-0"	18'-0"	4'-6"	-	-	7'-0"	-	-	36-#9	36-#9	18-#6	18-#6	28-#14	3.53
A5225 WEST	522+52.00	64°	-	217.00	27'-0"	21'-0"	5'-6"	-	-	7'-0"	-	-	42-#11	54-#9	21-#9	27-#6	34-#18	3.92
A5225 EAST			-	213.00	15'-0"	18'-0"	5'-0"	3	4	7'-0"	5	#9	9	#9	18-#6	15-#6	28-#14	74.2*
A5419 WEST	541+90.00	90°	-	217.00	27'-0"	24'-0"	6'-0"	5	4	7'-0"	10	#11	8	#10	24-#6	27-#6	34-#18	96.0*
A5419 EAST			-	217.00	21'-0"	24'-0"	6'-0"	4	4	7'-0"	10	#7	8	#10	24-#6	21-#6	34-#14	86.0*

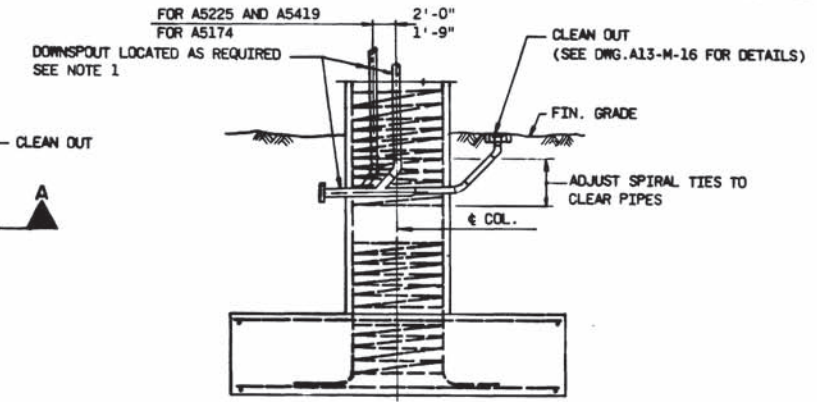
NOTE:
THIS SHEET TO BE USED IN CONJUNCTION WITH DRG. NO. A13-S-144.
* INDICATES TONS PER PILE.



PLAN

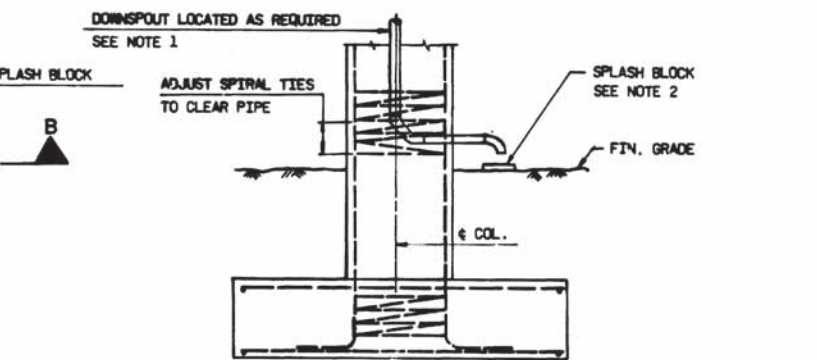


PLAN



SECTION A-A

PIER NOS. A5174, A5186, A5199, A5212, A5238, A5248, A5258, A5335, A5345, A5356, A5366, A5376, A5392, A5403, A5419, A5447



SECTION B-B

PIER NOS. A5225, A5279, A5290, A5302, A5313, A5324, A5435

- NOTES:
- FOR SIZE AND LOCATION OF DOWNSPOUT SEE DRG. NO. A13-M-16, A13-M-17, A13-M-18, A13-M-19, A13-M-24, A13-M-25, AND A13-M-26.
 - FOR SIZE AND LOCATION OF SPLASH BLOCK SEE DRG. NO. A13-U-22.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1978
RESIDENT ENGINEER

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
T. C. PAN	8/75	A13-S-144	PIER FOOTING DETAILS	10-11-76	GMS
G. PAPPALFIO	8/75				
E. P. SARABANDAN	7/75				
APPROVED	10/75				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED [Signature]

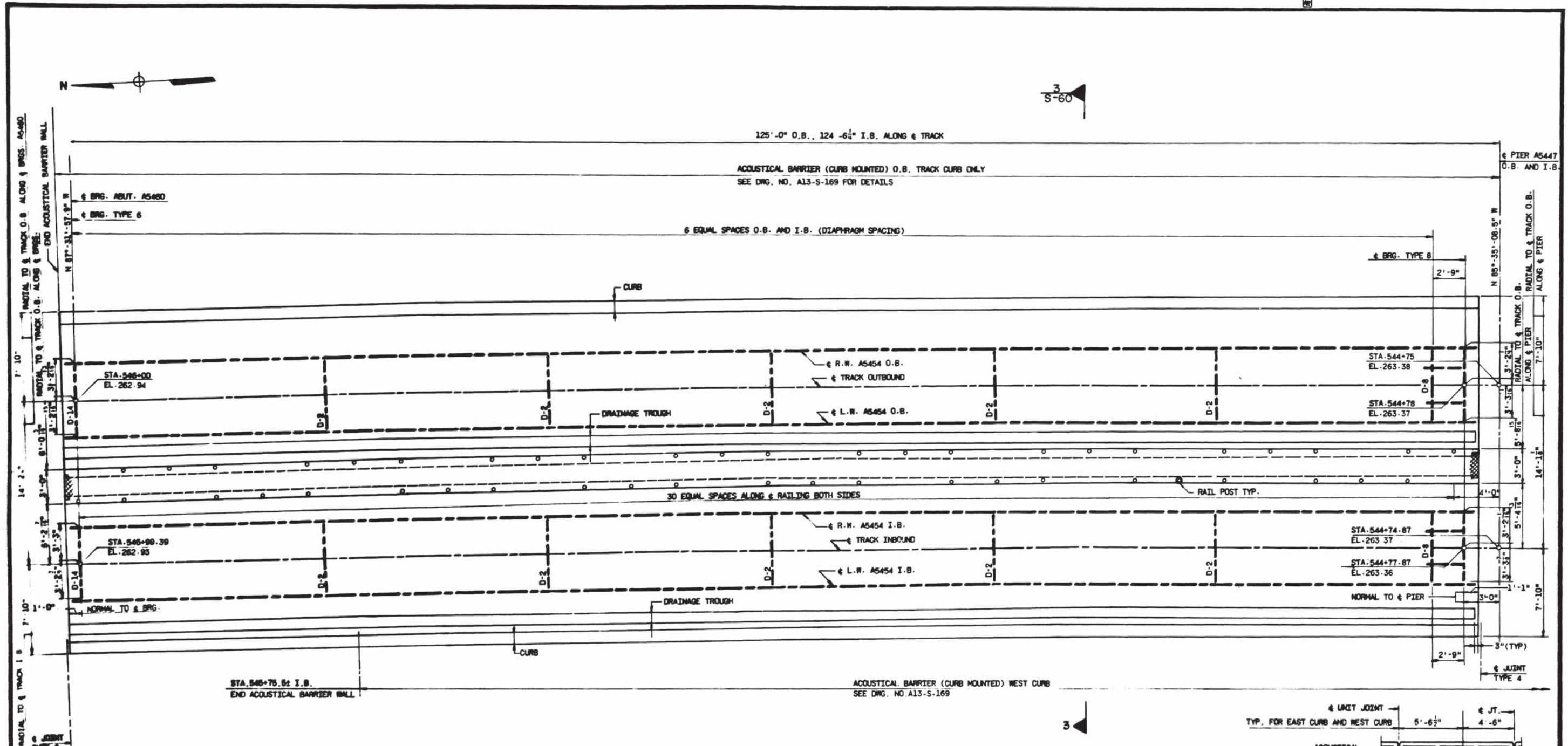
APPROVED [Signature]

ROCKVILLE ROUTE
AERIAL STRUCTURE
PIER FOOTING SCHEDULE AND
UTILITY PROVISION DETAIL

SCALE: NO SCALE

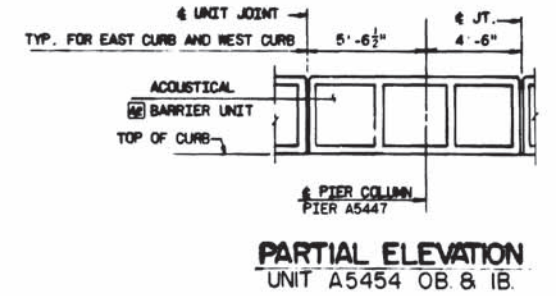
DRAWING NO. A13-S-145

M220-261



PLAN

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1979
RESIDENT ENGINEER



REVISIONS	REFERENCE DRAWINGS		REVISIONS	
	NUMBER	DESCRIPTION	DATE	BY
DESIGNED	C.P. LEE	12/76		
DRAWN	G. PARROLF 100	12/76		
CHECKED	A.N. PATEL	5/75		
APPROVED	<i>[Signature]</i>	12/76		
	A13-S-72	SAFETY WALK AND CABLE TROUGH DETAILS	2-12-76	C.L.
	A13-S-112	BEARING ASSEMBLIES		
	A13-S-110	DIAPHRAGM DETAILS		
	A13-S-89	BOX GIRDER SCHEDULE		
	A13-S-113	BEARING ASSEMBLIES		
	A13-S-100	ACROUSTICAL BARRIER ELEV., SECT. & DET.		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHY & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEZENE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* APPROVED *[Signature]*

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A5454 OB. AND I.B.
PLAN

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

DRAWING NO. **A13-S-63** M220-262



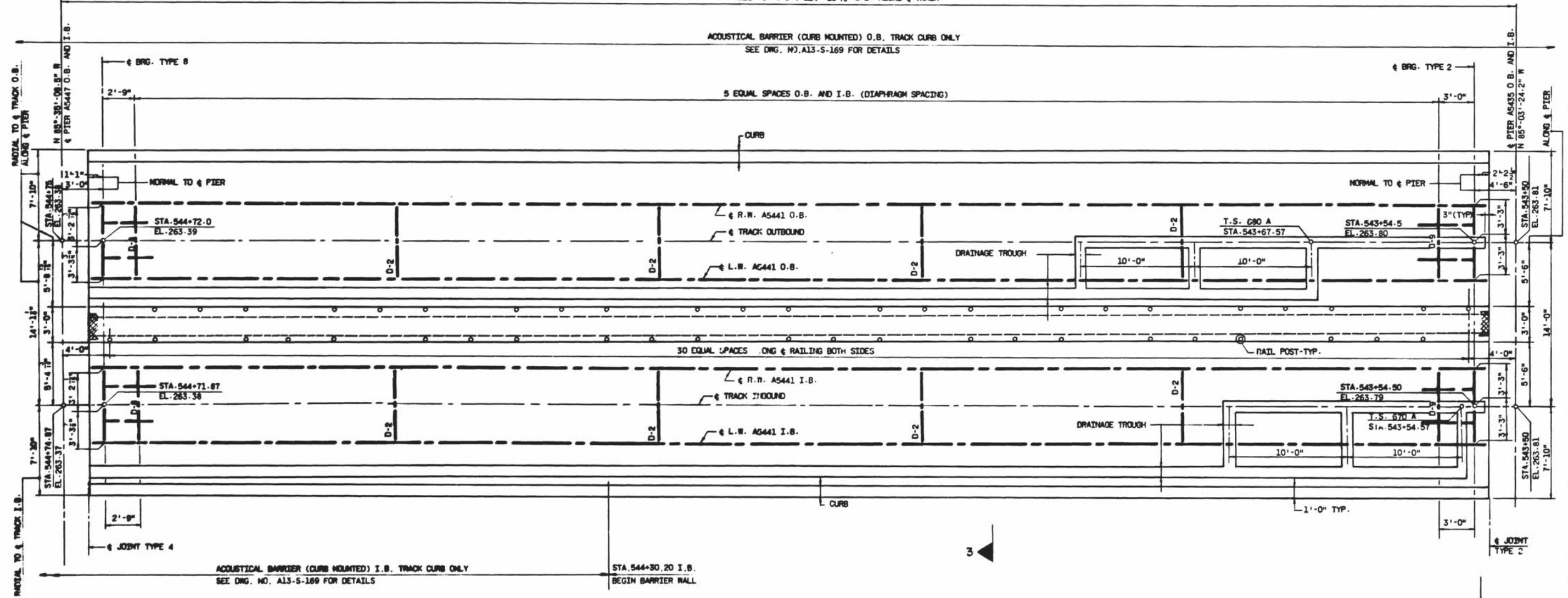
3
S-60

1
S-7

125'-0" O.B., 124'-10" I.B. ALONG TRACK

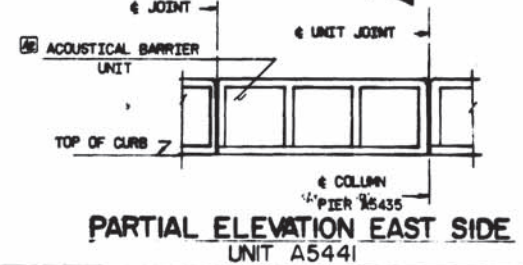
ACOUSTICAL BARRIER (CURB MOUNTED) O.B. TRACK CURB ONLY
SEE DWG. NO. A13-S-169 FOR DETAILS

5 EQUAL SPACES O.B. AND I.B. (DIAPHRAGM SPACING)



PLAN

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1979
REGISTERED ENGINEER



PARTIAL ELEVATION EAST SIDE
UNIT A5441

DESIGNED	C.P. LEE	12/74
DRAWN	S. PARODI/ING	12/74
CHECKED	A.H. PATEL	8/75
APPROVED	<i>[Signature]</i>	12/77

NUMBER	DESCRIPTION	DATE	BY	REVISIONS
A13-S-73	SAFETY WALK AND CABLE TROUGH DETAILS	2-12-76	C.L.	ADMITTED ACOUSTICAL MATERIAL AND REVISED KEY WORD
A13-S-112	BEARING ASSEMBLIES			
A13-S-110	DIAPHRAGM DETAILS			
A13-S-98	BOX GIRDER SCHEDULE			
A13-S-169	ACOUSTICAL BARRIER ELEV., SECT. & DETAIL			

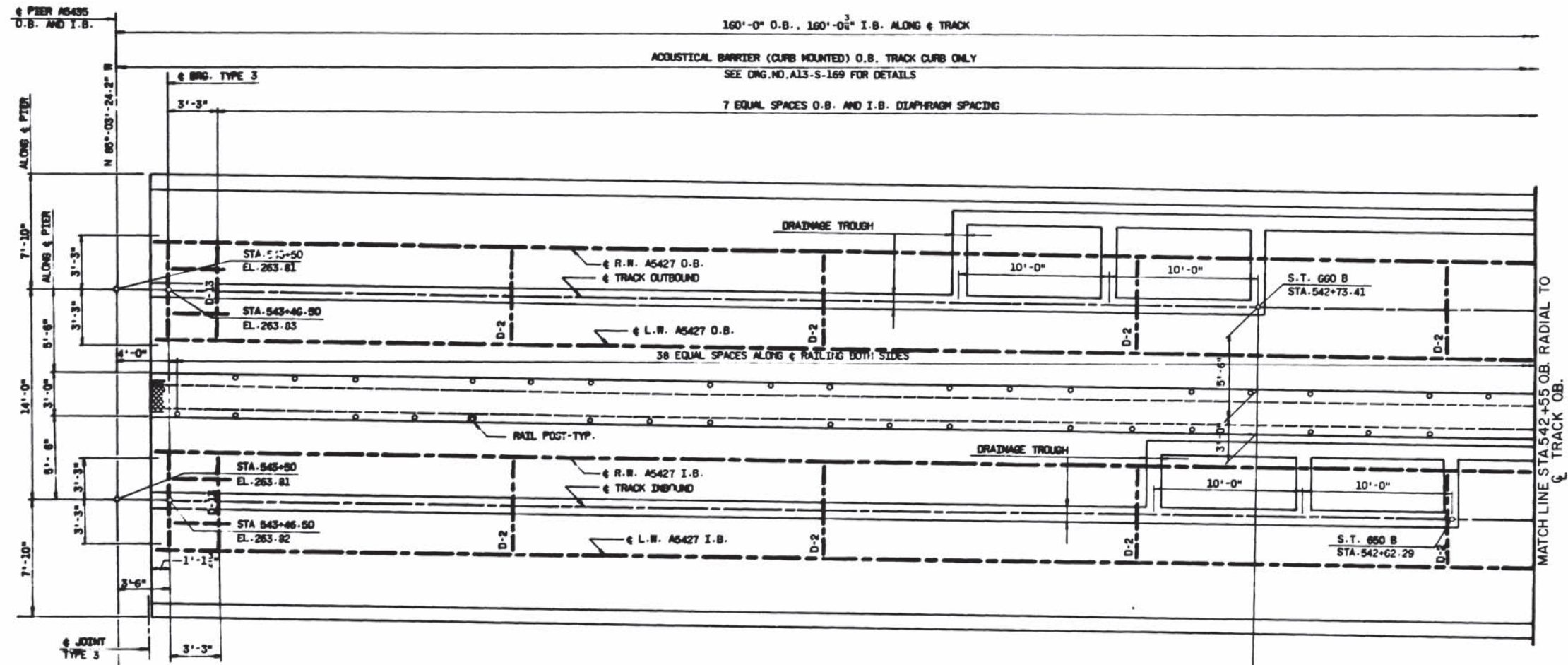
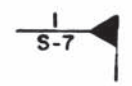


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS
SUBMITTED *[Signature]*

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT
HARRY WERBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT
APPROVED *[Signature]*

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A 5441 O.B. AND I.B.
PLAN
SCALE 1" = 1'-0" 1 0 1 2 3 4 5
DRAWING NO. A13-S-56
M220-263



PLAN

EQU. STA. 542+75.29 I.B. BACK =
STA. 542+73.41 I.B. & O.B. AHEAD

WASHINGTON METROPOLITAN
TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1979
RESIDENT ENGINEER

DESIGNED	C.P. LEE	12/76
DRAWN	G. PARDELLINO	12/76
CHECKED	A.M. PATEL	6/76
APPROVED	<i>[Signature]</i>	DATE

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A13-S-73	SAFETY WALK AND CABLE TROUGH DETAIL			
A13-S-112	BEARING ASSEMBLIES			
A13-S-110	DIAPHRAGM DETAILS			
A13-S-88	B'X GIRDER SCHEDULE			
A13-S-168	ACOUSTICAL BARRIER ELEV. SECT. & DETAILS			

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHIER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEZBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* APPROVED *[Signature]*

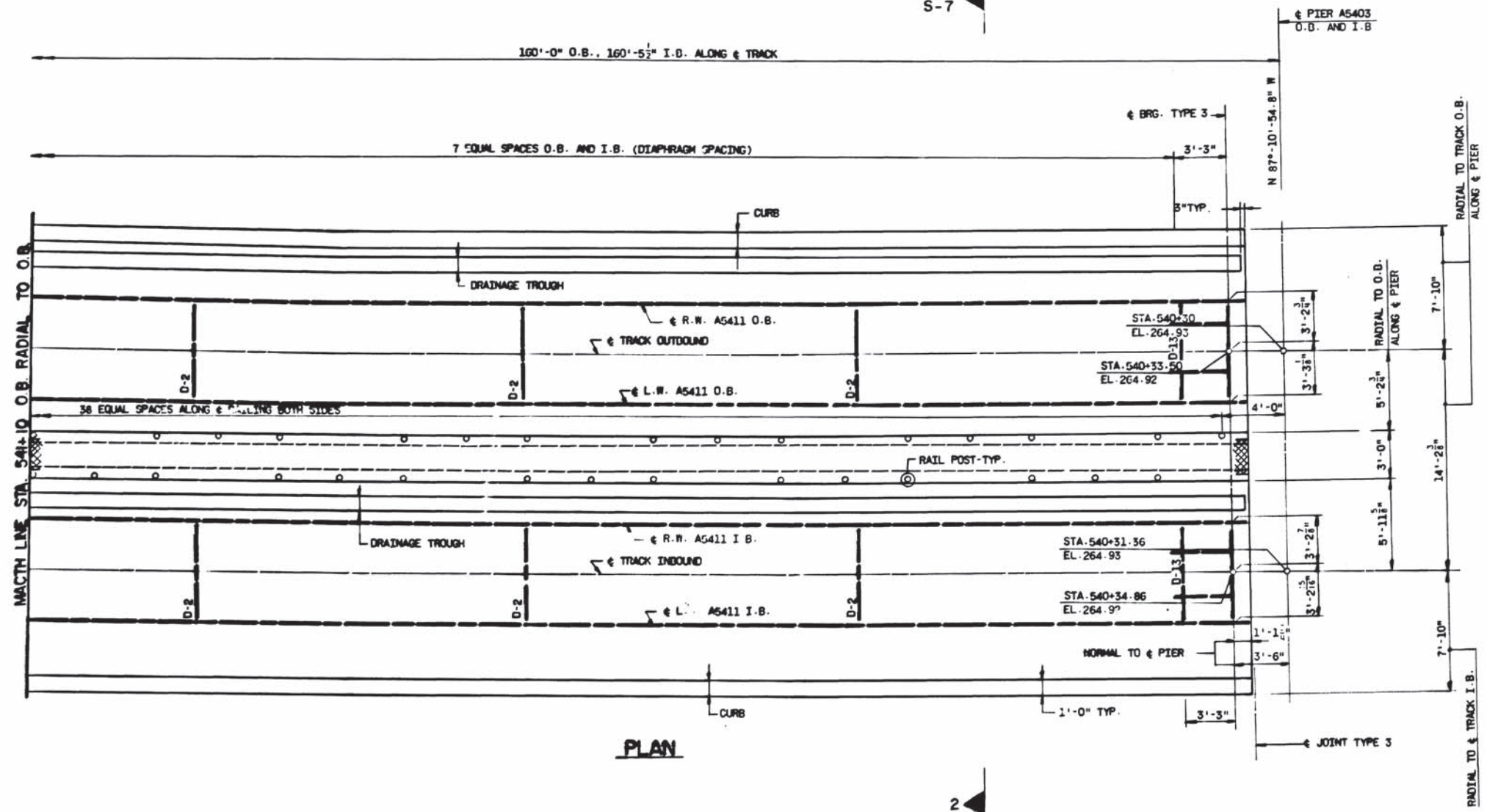
ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A 5427 O.B. AND I.B.
PARTIAL PLAN

SCALE: 1/4" = 1'-0" 1 0 1 2 3 4 5

DRAWING NO. A13-S-62 M220-264



2
S-7



PLAN

2

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
John S. [Signature] MAY 03 2005
RESIDENT ENGINEER

DESIGNED G.P. LEE 12/74
DRAWN G. PARDOLFINO 12/74
CHECKED A.M. PATEL 5/75
APPROVED *[Signature]* 10/75

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-73	SAFETY WALK AND CABLE TROUGH DETAILS		
A13-S-112	BEARING ASSEMBLIES		
A13-S-110	DIAPHRAGM DETAILS		
A1	BOX GIRDER SCHEDULE		

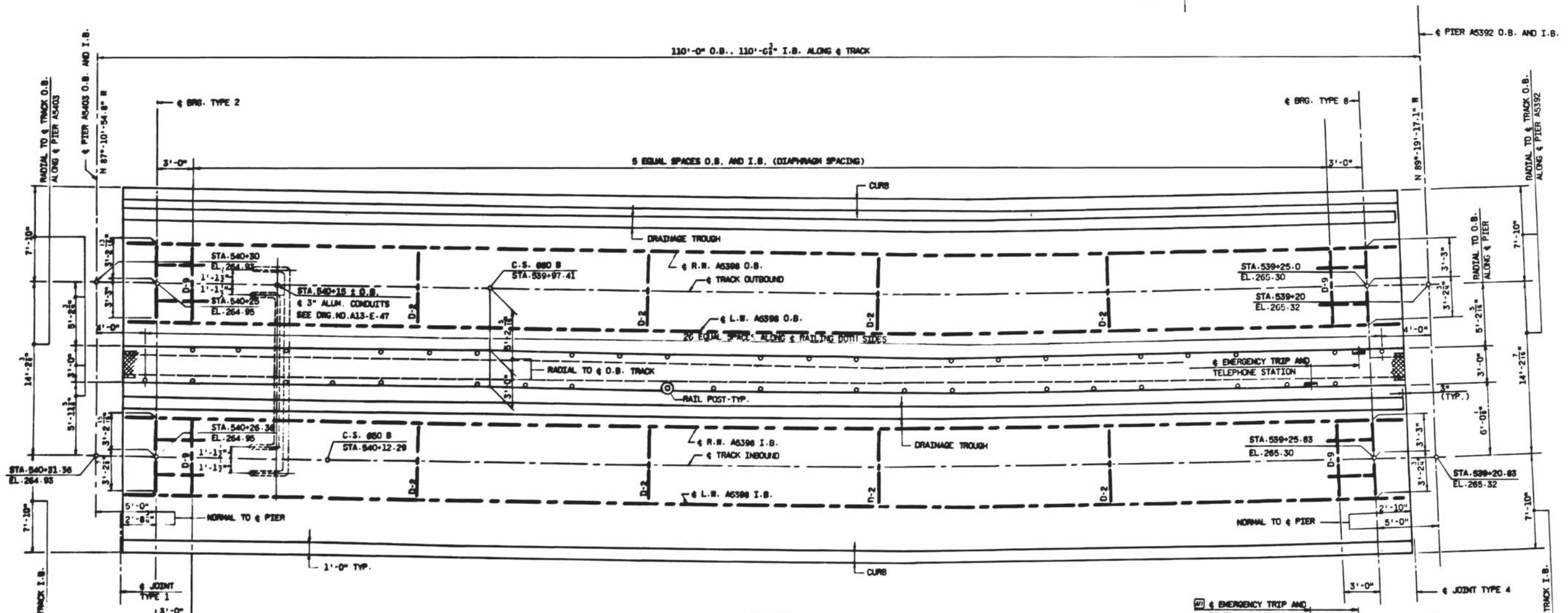


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS
SUBMITTED *[Signature]*
DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT
HARRY WEERE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT
APPROVED *[Signature]*

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A 5411 O.B. AND I.B.
PARTIAL PLAN
SCALE 1/4" = 1'-0"
DRAWING NO. A13-S-54
M220-267

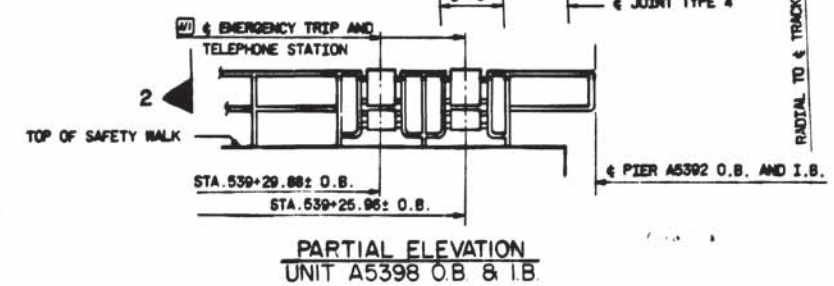


2
S-7



PLAN

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
RESIDENT ENGINEER DATE



PARTIAL ELEVATION
UNIT A5398 O.B. & I.B.

DESIGNED	C.P. LEE	12/76
DRAWN	G. PARSONS	12/76
CHECKED	A.H. PATEL	5/75
APPROVED	<i>[Signature]</i>	

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A13-S-73	SAFETY WALK AND C&B F TROUGH DETAILS	1-22-76	A.P.	REVISED EMERGENCY TRIP STATION LOCATION
A13-S-112	BEARING ASSEMBLIES			
A13-S-110	DIAPHRAGM DETAILS			
A13-S-89	BOX GIRDER SCHEDULE			
A13-S-100	TYP. RAILING DETAILS AND EMERGENCY TRIP AND TELEPHONE STATION			

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE *[Signature]*

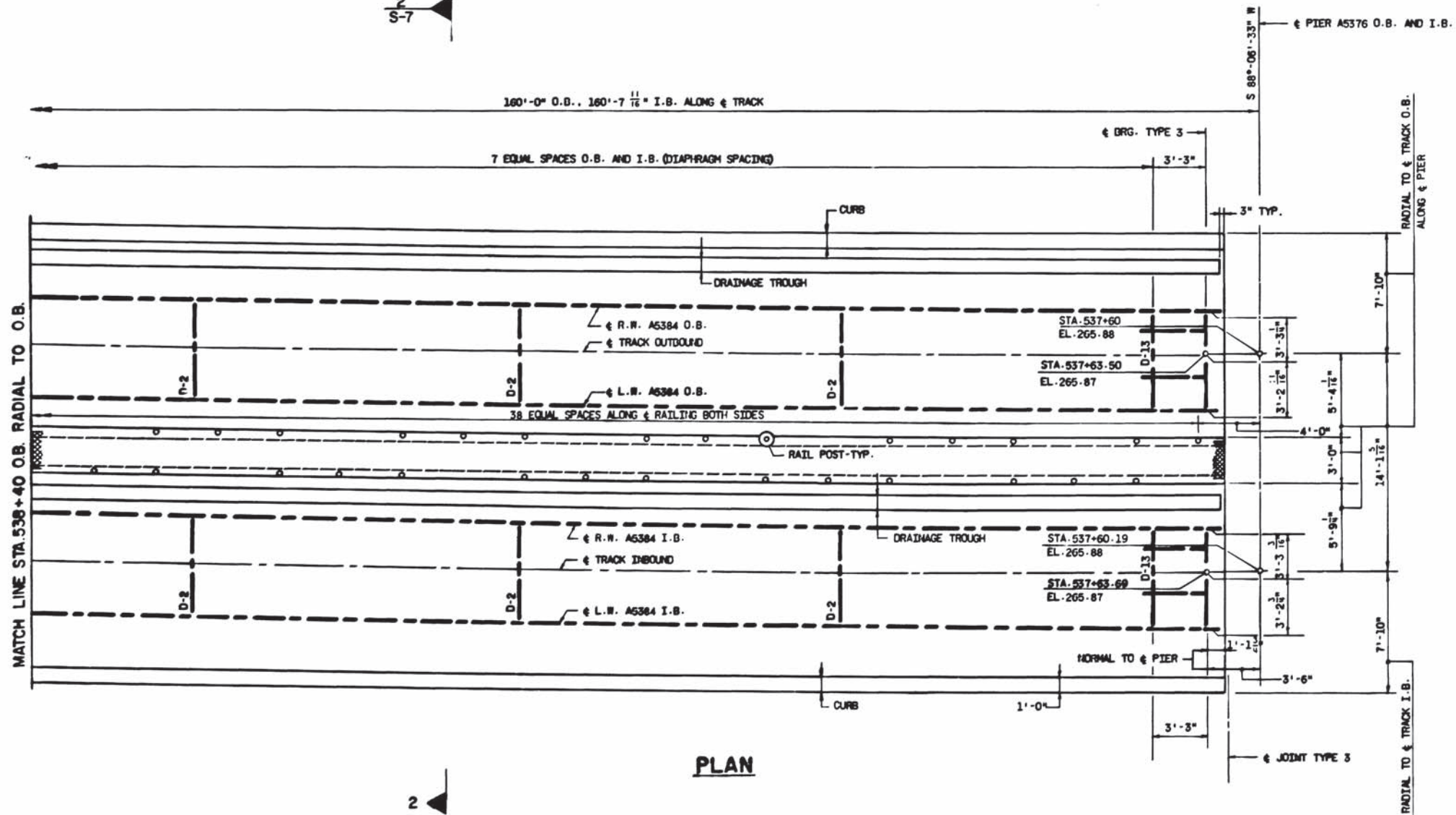
ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A 5398 O.B. AND I.B.
PLAN

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

DRAWING NO. **A13-S-48** M220-268



2
S-7



WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 RESIDENT ENGINEER: *[Signature]* DATE: MAY 03 1979

DESIGNED: S.P. LEE 12/78
 DRAWN: S. PAROLFINO 12/78
 CHECKED: A.M. PATEL 6/79
 APPROVED: *[Signature]* 10/79

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A12-S-73	SAFETY WALK AND CABLE TROUGH DETAILS		
A12-S-112	BEARING ASSEMBLIES		
A12-S-118	DIAPHRAGM DETAILS		
A12-S-48	BOX GIRDER SCHEDULE		

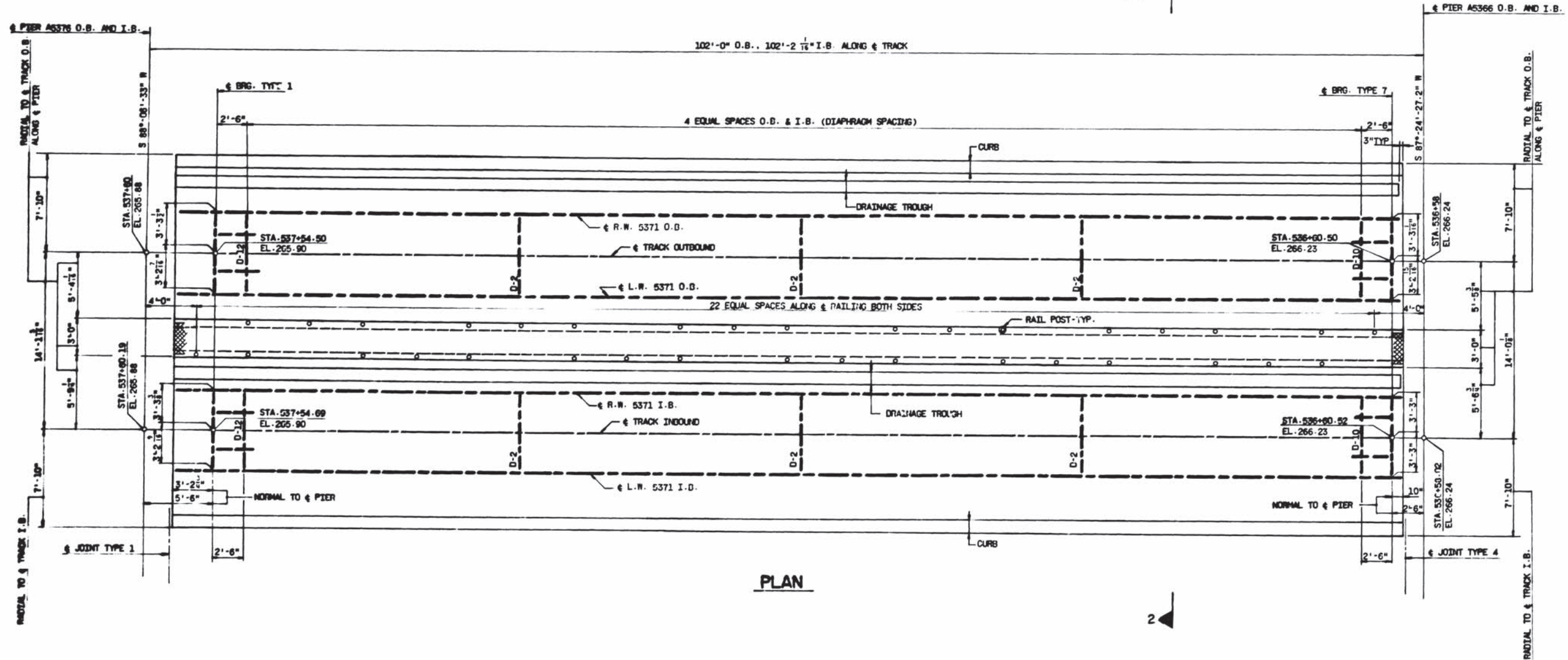
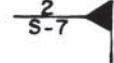


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS
 SUBMITTED: *[Signature]*

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED: *[Signature]*

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A 5384 O.B. AND I.B.
 PARTIAL PLAN

SCALE: 1/4" = 1'-0"
 DRAWING NO: A13-S-46
 M220-270



WASHINGTON METROPOLITAN
TRANSIT AUTHORITY

AS-BUILT CONDITION

Report Engineer: [Signature] DATE: 05-79

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
112-S-73	SAFETY WALK AND CABLE TROUGH DETAILS		
112-S-112	BEARING ASSEMBLIES		
112-S-110	DIAPHRAGM DETAILS		
112-S-03	BOX GIRDER SCHEDULE		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEZBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature]

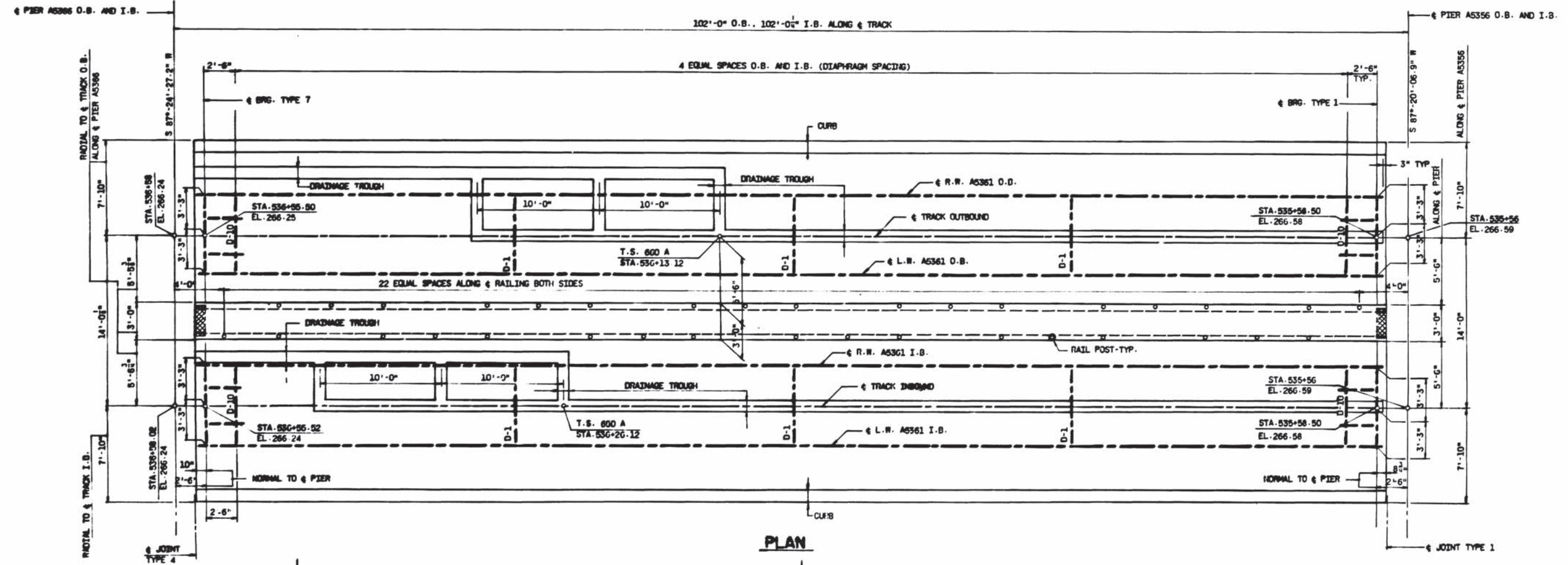
APPROVED: [Signature]

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A5371 O.B. AND I.B.
PLAN

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

DRAWING NO. A13-S-41

M220-271



PLAN

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
GENERAL ENGINEER DATE MAY 03 1979

DESIGNED	C.P. LEE	12/74
DRAWN	G. PAROLFINO	12/74
CHECKED	A.M. PATEL	5/75
APPROVED	<i>[Signature]</i>	5/75

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A13-S-73	SAFETY WALK AND CABLE TROUGH DETAILS			
A13-S-112	BEARING ASSEMBLIES			
A13-S-110	DIAPHRAGM DETAILS			
A13-S-08	BOX GIRDER SCHEDULE			

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

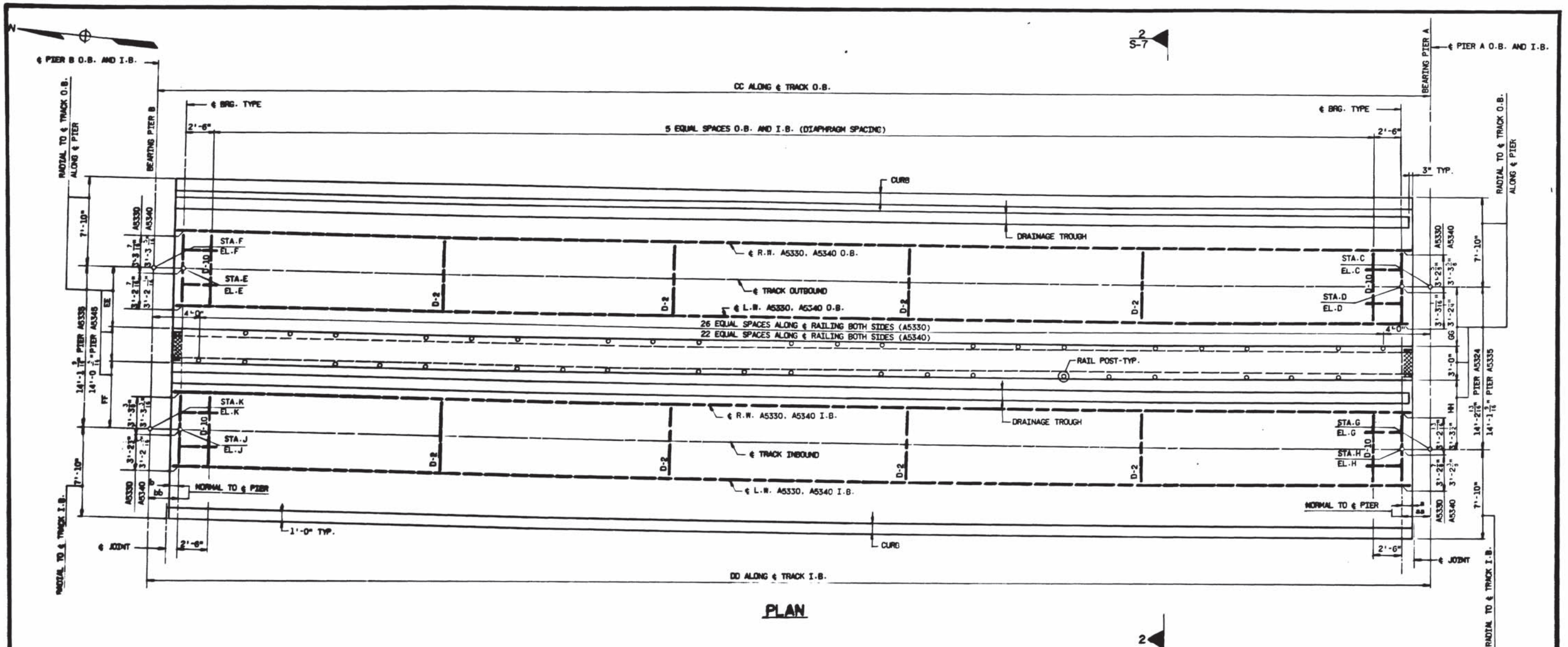
HARRY WESSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* APPROVED *[Signature]*

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A 5361 O.B. AND I.B.
PLAN

SCALE 1" = 10'

DRAWING NO. A13-S-39 M220-272



PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 John G. Taylor MAY 03 1979
 RESIDENT ENGINEER DATE

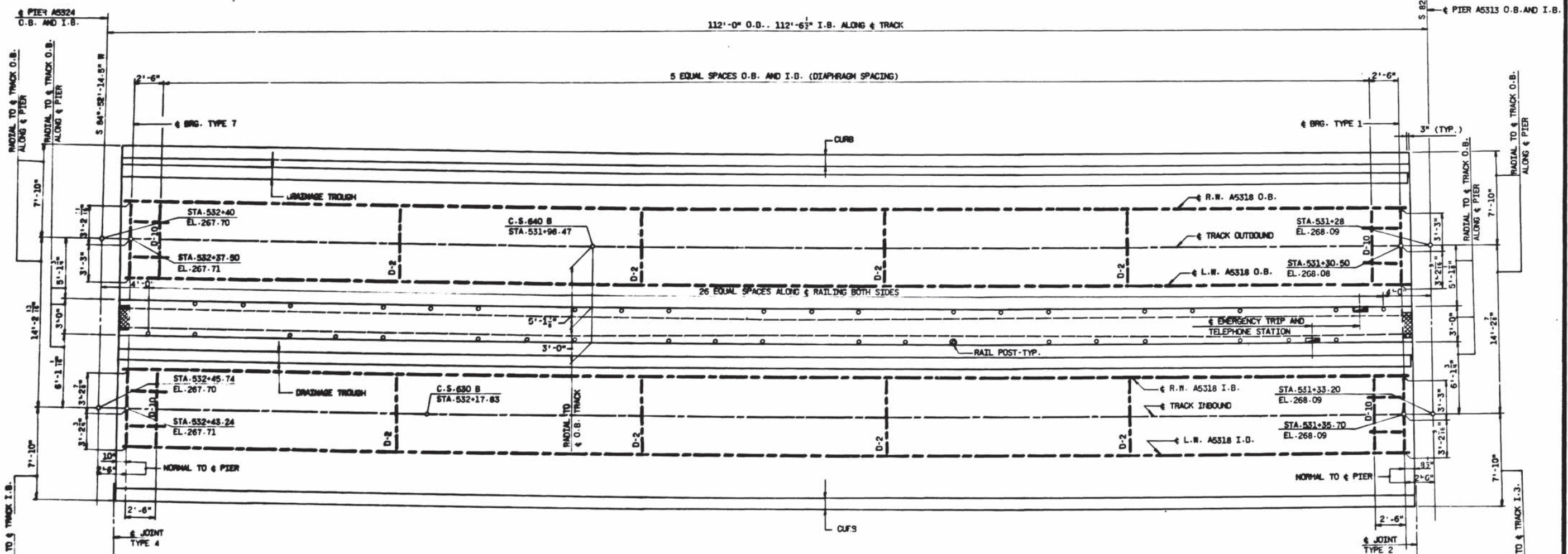
UNIT	PIER A	PIER B	STA. C	STA. D	STA. E	STA. F	STA. G	STA. H	STA. J	STA. K	EL. C	EL. D	EL. E	EL. F	EL. G	EL. H	EL. J	EL. K	PIER A		PIER B		CC	DD	EE	FF	GG	HH	BEARING		TYPE OF JT.		BRG. TYPE	
																			a	bb	b	bb							PIER A	PIER B	PIER A	PIER B	PIER A	PIER B
A5330	A5324	A5336	532+40	532+42.80	533+49.80	533+52	532+45.74	532+48.24	533+56.63	533+58.13	267.70	267.69	267.32	267.31	267.70	267.69	267.32	267.31	0°-10"	2°-6"	0°-8"	2°-6"	112°-0"	112°-4 ¹¹ / ₁₆ "	5°-3 ⁷ / ₁₆ "	5°-10 ¹ / ₁₆ "	5°-1 ³ / ₁₆ "	5°-1 ¹ / ₁₆ "	S84°-52'-14.6"W	S86°-25'-45"W	4	1	7	1
A5340	A5336	A5346	533+52	533+54.80	534+51.80	534+54	533+58.13	533+60.63	534+57.81	534+60.31	267.31	267.30	266.96	266.95	267.31	267.30	266.96	266.95	0°-8 ³ / ₁₆ "	2°-6"	0°-10"	2°-6"	102°-0"	102°-2 ³ / ₁₆ "	5°-4 ¹⁵ / ₁₆ "	5°-7 ³ / ₁₆ "	5°-3 ⁷ / ₁₆ "	5°-10 ¹ / ₁₆ "	S86°-25'-45"W	S87°-11'-01.6"W	1	4	1	7

- O.B. & I.B.

DESIGNED: C.P. LEE 12/78 DRAWN: G. PARODOLINO 12/78 CHECKED: A.N. PATEL 5/75 APPROVED: [Signature] 10/78	REFERENCE DRAWINGS <table border="1"> <tr><th>NUMBER</th><th>DESCRIPTION</th></tr> <tr><td>A12-5-73</td><td>SAFETY WALK AND CABLE TROUGH DETAILS</td></tr> <tr><td>A12-5-112</td><td>BEARING ASSEMBLIES</td></tr> <tr><td>A12-5-110</td><td>DIAPHRAGM DETAILS</td></tr> <tr><td>A12-5-88</td><td>BOX GIRDER SCHEDULE</td></tr> </table>	NUMBER	DESCRIPTION	A12-5-73	SAFETY WALK AND CABLE TROUGH DETAILS	A12-5-112	BEARING ASSEMBLIES	A12-5-110	DIAPHRAGM DETAILS	A12-5-88	BOX GIRDER SCHEDULE	REVISIONS <table border="1"> <tr><th>DATE</th><th>BY</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	DATE	BY	DESCRIPTION								WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY SECTION DESIGNER BUCHART-HORN CONSULTING ENGINEERS AND PLANNERS SUBMITTED: [Signature]	DE LEUW, CATHAR & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEZBE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT APPROVED: [Signature]	ROCKVILLE ROUTE AERIAL STRUCTURE UNITS A5330, A5340 O.B. AND I.B. PLAN SCALE: 1" = 10' DRAWING NO. A13-S-45 M220-274
NUMBER	DESCRIPTION																								
A12-5-73	SAFETY WALK AND CABLE TROUGH DETAILS																								
A12-5-112	BEARING ASSEMBLIES																								
A12-5-110	DIAPHRAGM DETAILS																								
A12-5-88	BOX GIRDER SCHEDULE																								
DATE	BY	DESCRIPTION																							

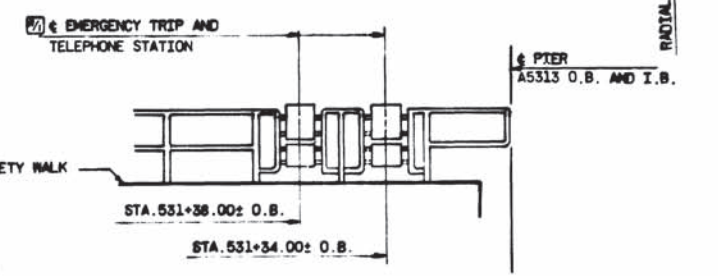


2
S-7



PLAN

2



PARTIAL ELEVATION
UNIT A5318 O.B. & I.B.

WASHINGTON METROPOLITAN
RAIL TRANSIT AUTHORITY
AS-BUILT CONDITION
RESIDENT ENGINEER
MAY 03 1979
DATE

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
C.P. LEE	12/78	A13-S-73	SAFETY WALK AND CABLE TROUGH DETAILS	1-29-78	REVISED EMERGENCY TRIP STATION LOCATION
G. PARDELLI	12/78	A13-S-113	BEARING ASSEMBLIES		
A.M. PATEL	3/79	A13-S-110	DIAPHRAGM DETAILS		
		A13-S-88	BOX GIRDER SCHEDULE		
		A13-S-168	TYP. RAILING DETAILS AND EMERGENCY TRIP AND TELEPHONE STATION		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS
SUBMITTED *[Signature]*

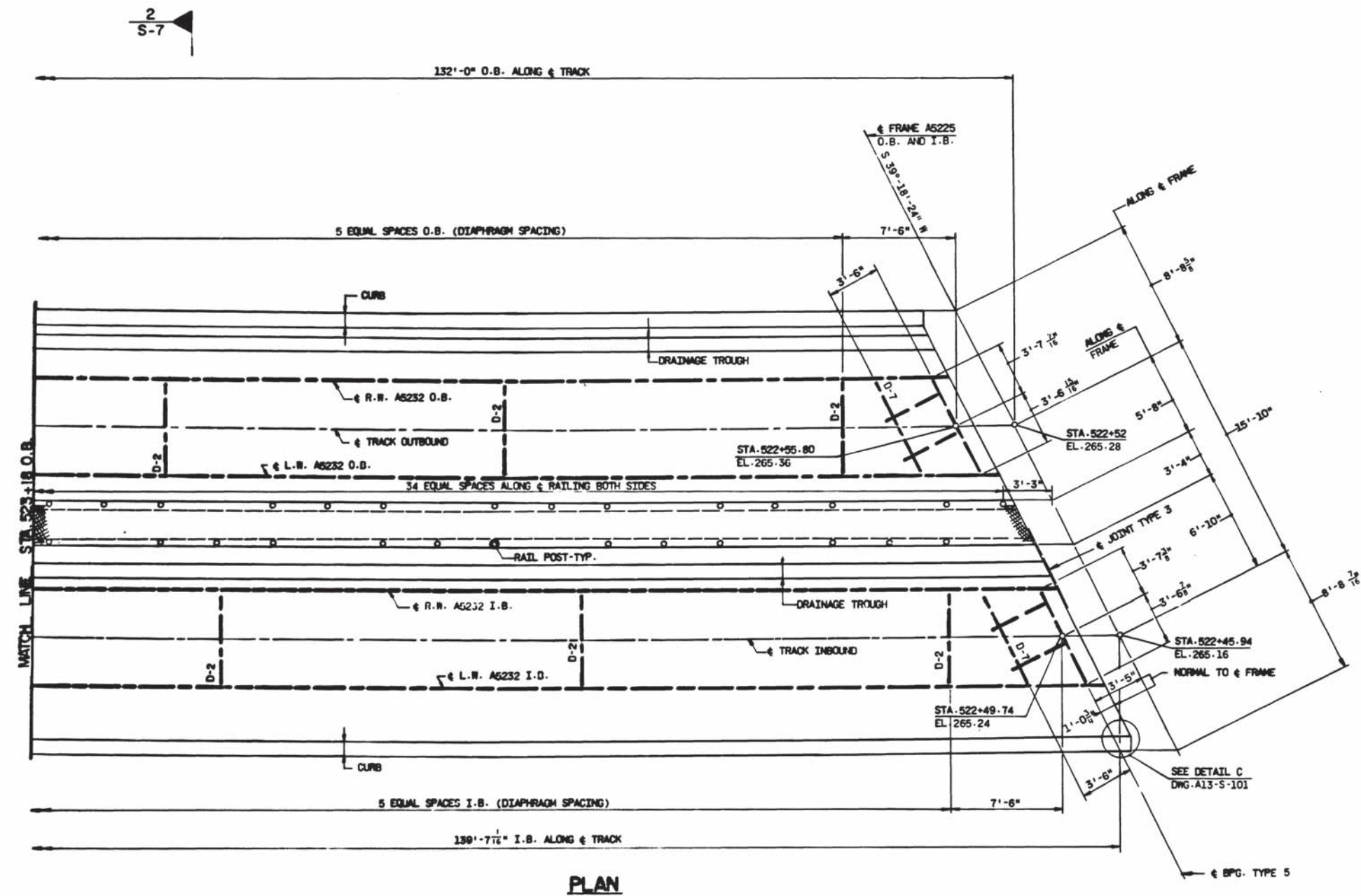
DE LEIJW, CATHIER & COMPANY
GENERAL ENGINEERING CONSULTANT
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT
APPROVED *[Signature]*

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A 5318 O.B. AND I.B.
PLAN

SCALE: 1" = 10'-0"

DRAWING NO. **A13-S-35**

M220-275



PLAN

WASHINGTON METROPOLITAN
TRANSIT AUTHORITY
AS BUILT CONDITION
MAY 03 1979
REVISOR: [Signature] DATE

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
C.P. LEE	12/78	A13-S-73	SAFETY WALK AND CABLE TROUGH DETAILS		
S. PARODOLFIN	12/78	A13-S-74	BEARING ASSEMBLIES		
A.H. PATEL	5/79	A13-S-80	DIAPHRAGM DETAILS		
		A13-S-81	BOX GIRDER SCHEDULE		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature] APPROVED: [Signature]

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A 5232 O.B. AND I.B.
PARTIAL PLAN

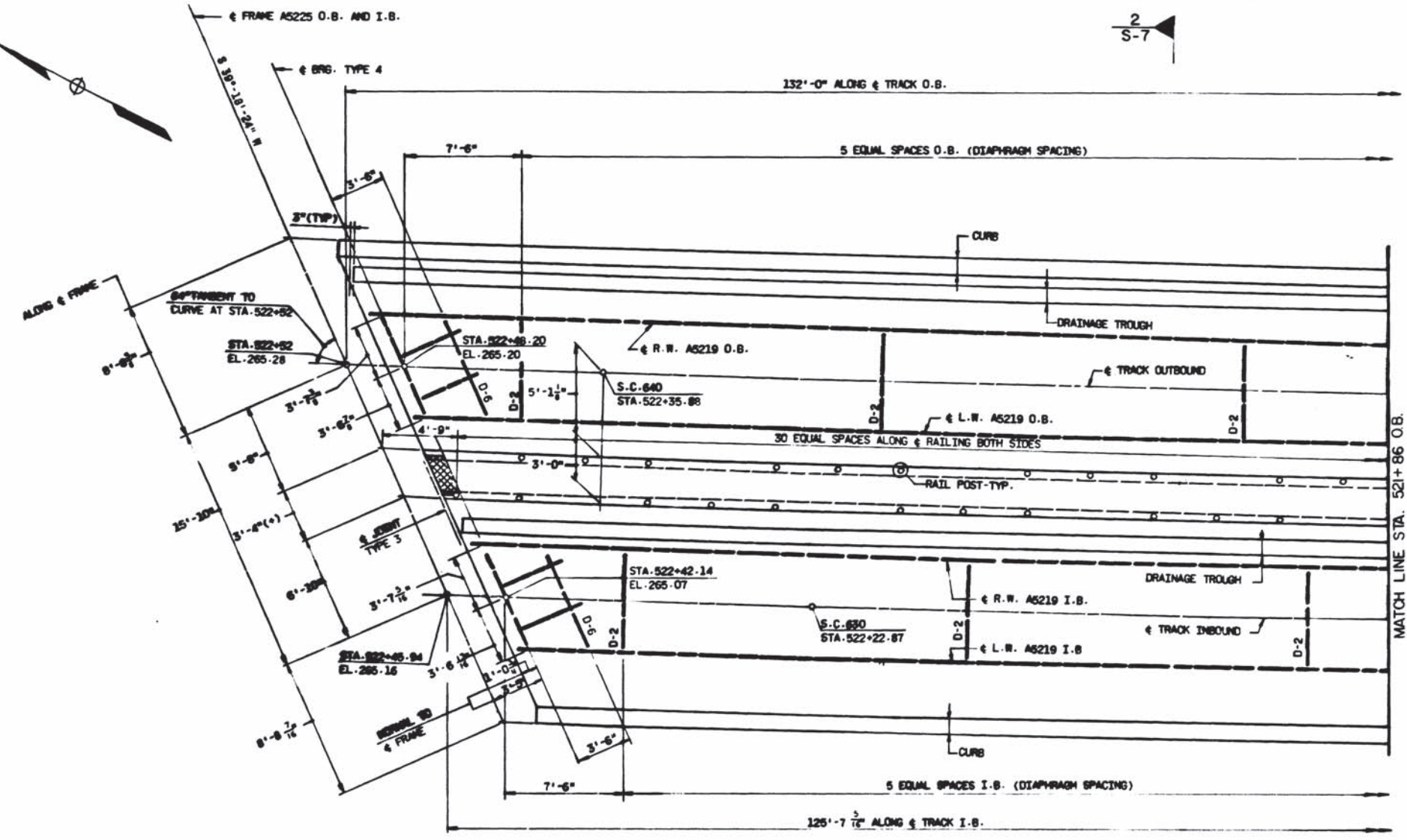
SCALE: 1/4" = 1'-0"

DRAWING NO. A13-S-31

M220-278



2
S-7



PLAN

2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 Resident Engineer: *[Signature]* MAY 02 1978

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
C.P. LEE	1/76	A13-S-74	SAFETY BALK AND CADLE TROUGH DETAILS			
G. PARROLFINO	1/76	A13-S-112	BEARING ASSEMBLIES			
A.H. PATEL	8/75	A13-S-110	DIAPHRAGM DETAILS			
		A13-S-82	BOX GIRDER SCHEDULE			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WIEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *[Signature]* APPROVED: *[Signature]*

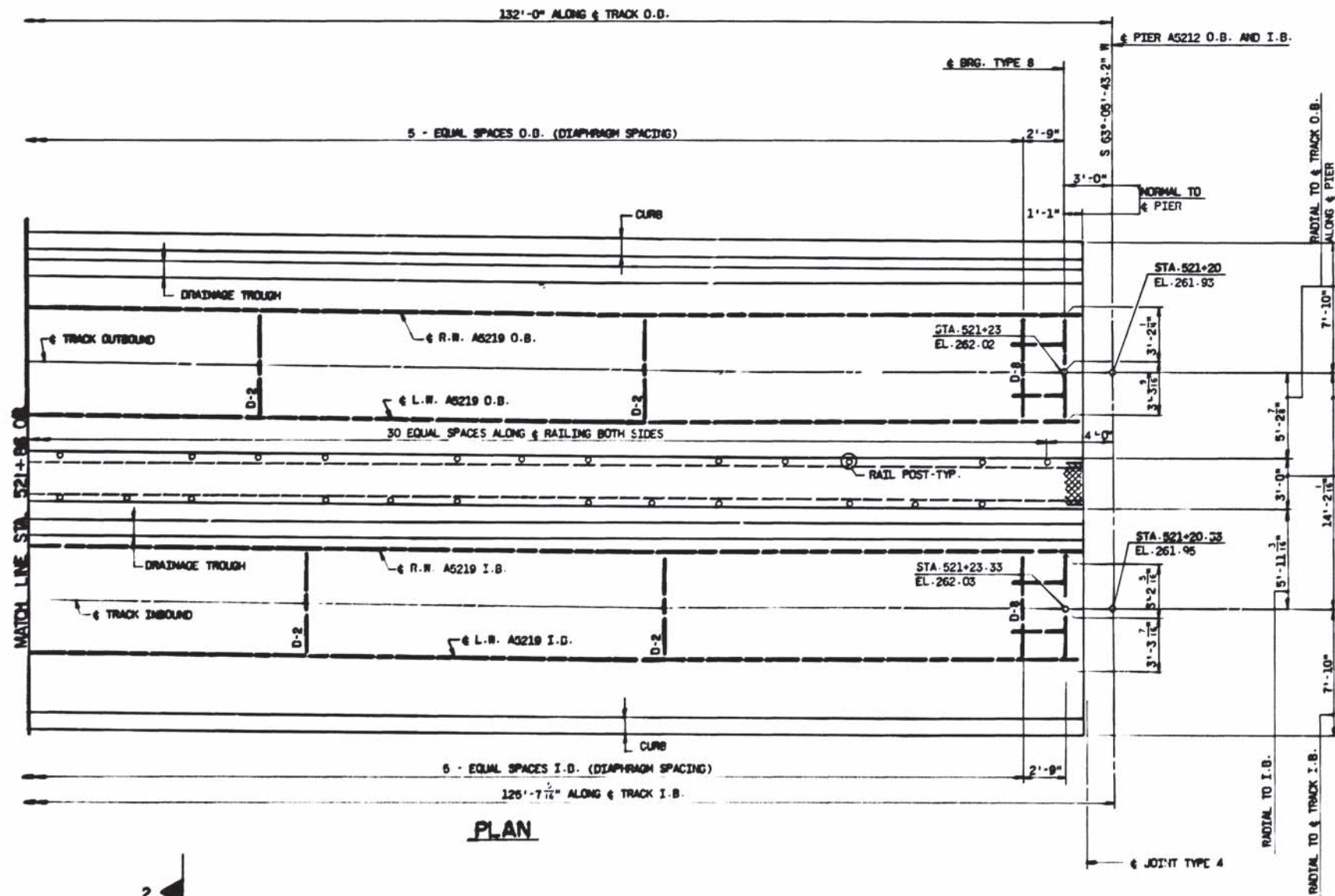
ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A 5219 O.B. AND I.B.
 PARTIAL PLAN

SCALE: 1" = 10'-0"

DRAWING NO. A13-S-30 M220-279



2
S-7



PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 DATE: MAY 03 1978

DESIGNED	C.P. LEE	1/76
DRAWN	G. PAROLFINO	1/76
CHECKED	A.H. PATEL	4/76
APPROVED	<i>[Signature]</i>	4/76

NUMBER	DESCRIPTION	DATE	BY	REVISIONS
A12-5-72	SAFETY BALK AND CABLE TROUGH DETAILS			
A12-5-112	BEARING ASSEMBLIES			
A12-5-119	DIAPHRAGM DETAILS			
A12-5-82	JOCK GUNDER SCHEDULE			

DATE	BY	REVISIONS



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT

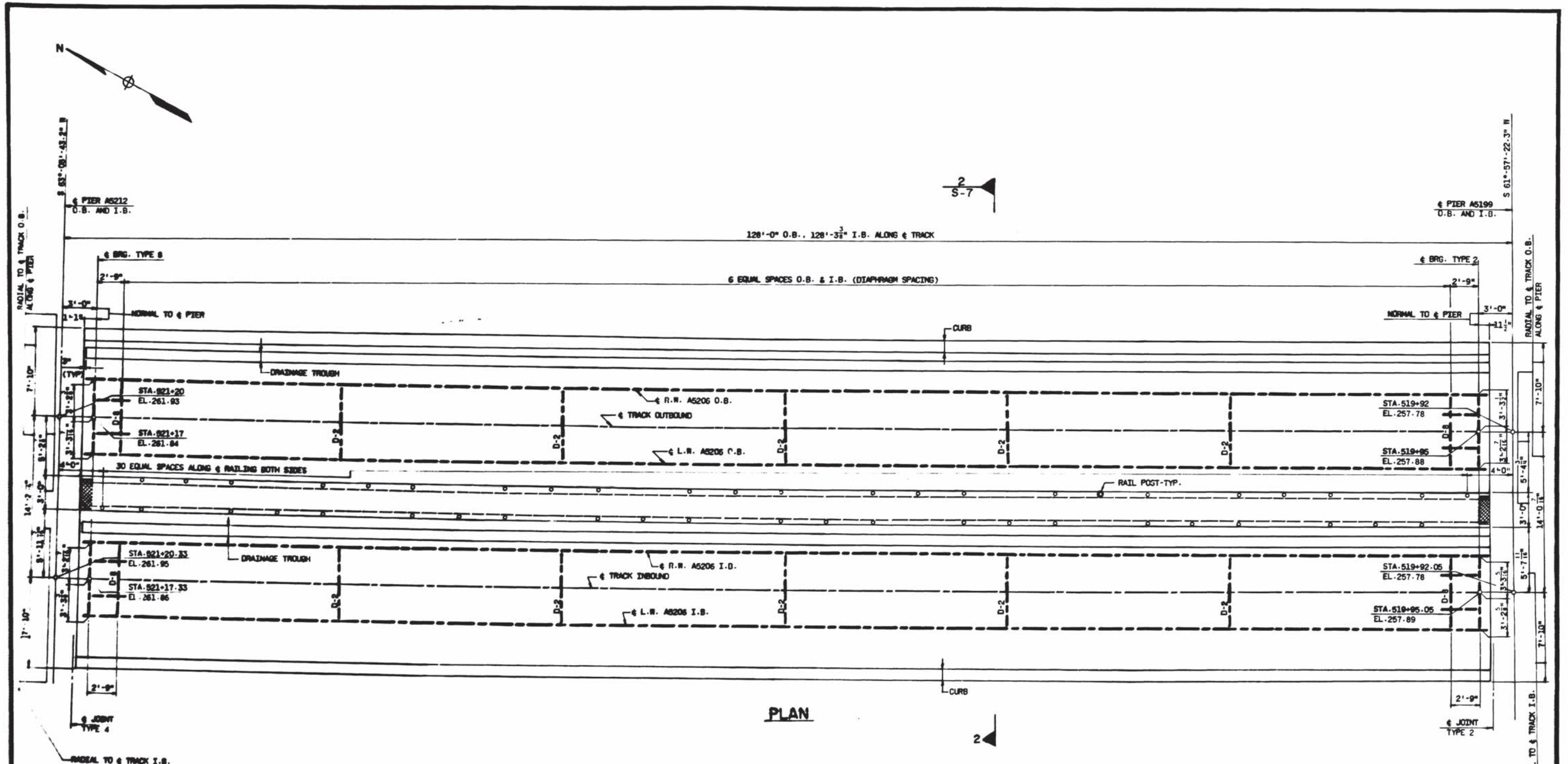
HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* APPROVED *[Signature]*

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A 5219 O.B. AND I.B.
 PARTIAL PLAN

SCALE: 1" = 10'-0"

DRAWING NO. **A13-S-29** M220-280



PLAN

WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 MAY 03 1979
 RESIDENT ENGINEER

REVISION	DATE	BY	DESCRIPTION
1	1/75	C.P. LEE	ISSUED
2	1/75	G. PARDELLINO	CHANGED
3	7/75	A.M. PATEL	CHANGED
4	8/75	Jed [Signature]	APPROVED

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A13-S-72	SAFETY WALK AND CABLE TROUGH DETAILS			
A13-S-112	BEARING ASSEMBLIES			
A13-S-110	DIAPHRAGM DETAILS			
A13-S-88	BOX GIRDER SCHEDULE			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

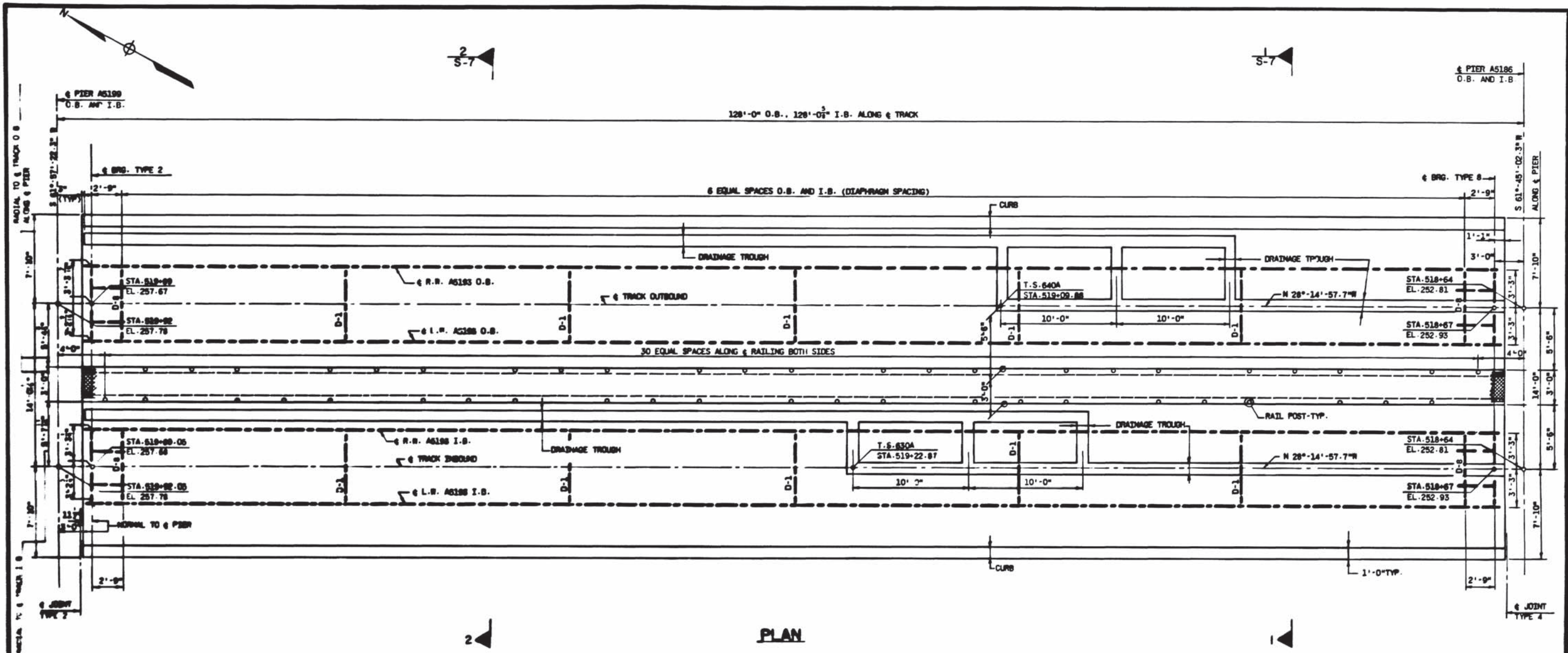
DE LEUW, CATHEN & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A5206 QB AND I.B.
 PLAN

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

DRAWING NO. A13-S-28 M220-281



PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 MAY 03 1978
 RESIDENT ENGINEER

REVISIONS	REFERENCE DRAWINGS		REVISIONS	
	NUMBER	DESCRIPTION	DATE	BY
1	113-S-173	SAFETY BALK AND CABLE TROUGH DETAILS		
2	113-S-112	BEARING ASSEMBLIES		
3	113-S-174	DIAPHRAGM DETAILS		
4	113-S-08	FOR GIRDERS SCHEDULE		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LIEW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature]
 APPROVED: [Signature]

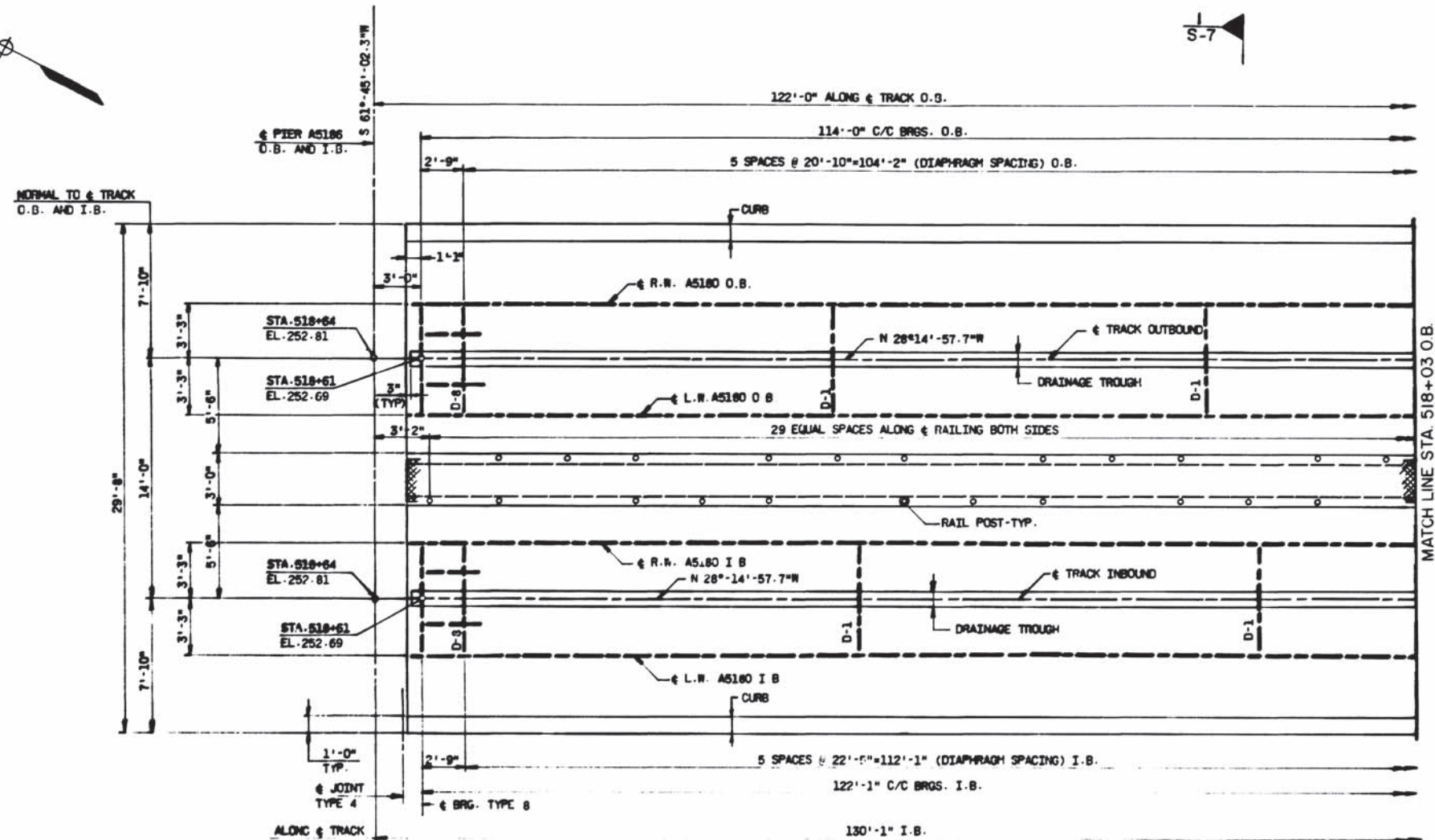
ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A 5183 O.B. AND I.B.
 PLAN

SCALE: 1" = 10'-0"

DRAWING NO. A13-S-27
 M220-282



S-7



PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 Resident Engineer: *John H. Taylor* DATE: MAY 08 1978

DESIGNED	C.P. LEE	1/75
DRAWN	G. PAPPOLINO	1/75
CHECKED	A.M. PATEL	4/75
APPROVED	<i>John H. Taylor</i>	4/75

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-23	SAFETY WALK AND CABLE TROUGH DETAILS		
A17-S-422	BEARING ASSEMBLIES		
A17-S-410	DIAPHRAGM DETAILS		
A13-S-93	BOX GIRDER SCHEDULE		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHIER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *John H. Taylor* APPROVED: *John H. Taylor*

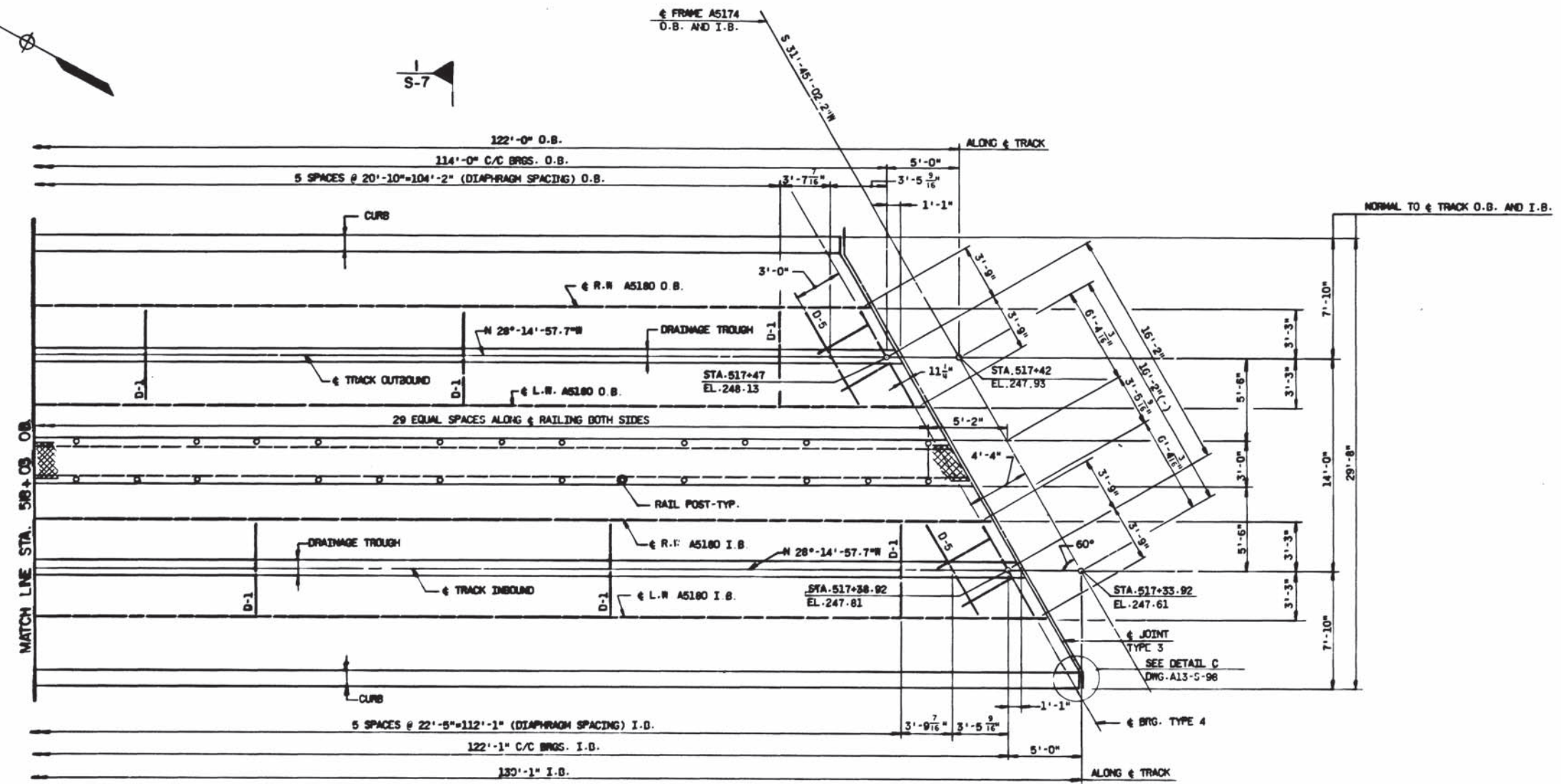
ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A5180 O.B. AND I.B.
 PARTIAL PLAN

SCALE: 1" = 10'-0"

DRAWING NO. **A13-S-26** M220-283



S-7



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 RESIDENT ENGINEER: *[Signature]* DATE: MAY 03 1979

DESIGNED: C.P. LEE 1/75
 DRAWN: S. PARODOLFI 1/75
 CHECKED: A.N. PATEL 4/75
 APPROVED: *[Signature]* 10/75

NUMBER	DESCRIPTION
A12-S-74	SAFETY WALK AND CABLE TROUGH DETAILS
A12-S-112	BEARING ASSEMBLIES
A12-S-110	DIAPHRAGM DETAILS
A12-S-83	BOX GIRDER SCHEDULE

DATE	BY	DESCRIPTION

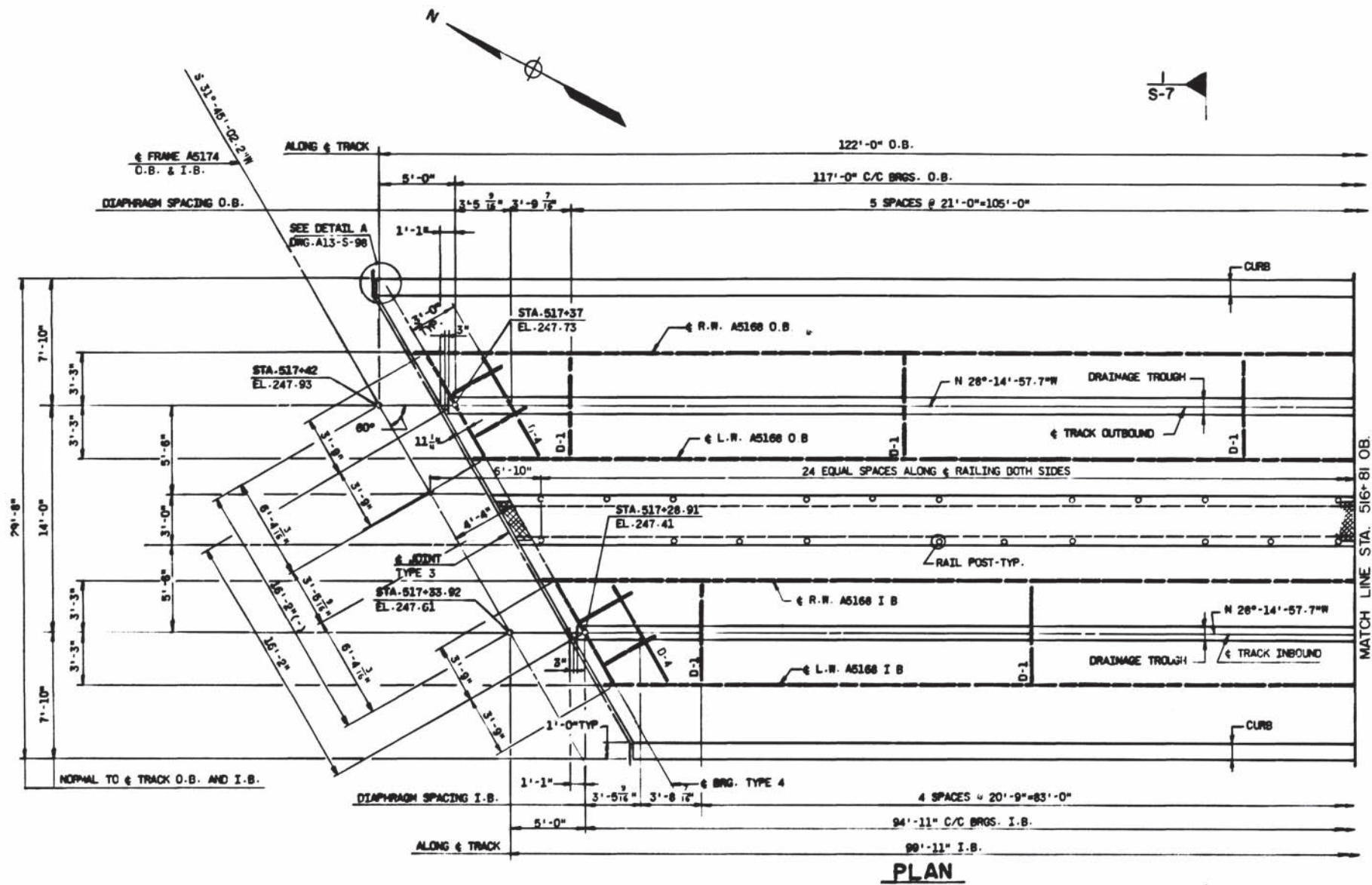


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS
 SUBMITTED: *[Signature]*

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEISE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED: *[Signature]*

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A5180 O.B. AND I.B.
 PARTIAL PLAN

SCALE: 1" = 1'-0"
 DRAWING NO. A13-S-25
 M220-284



PLAN

WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 MAY 03 1979

DESIGNED C.P. LEE 1/75
 DRAWN G. PARODI 1/75
 CHECKED A.N. PATEL 8/75
 APPROVED [Signature] 8/75

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-74	SAFETY WALK AND CABLE TROUGH DETAILS		
A13-S-112	BEARING ASSEMBLIES		
A13-S-116	DIAPHRAGM DETAILS		
A13-S-99	JOX GIRDER SCHEDULE		

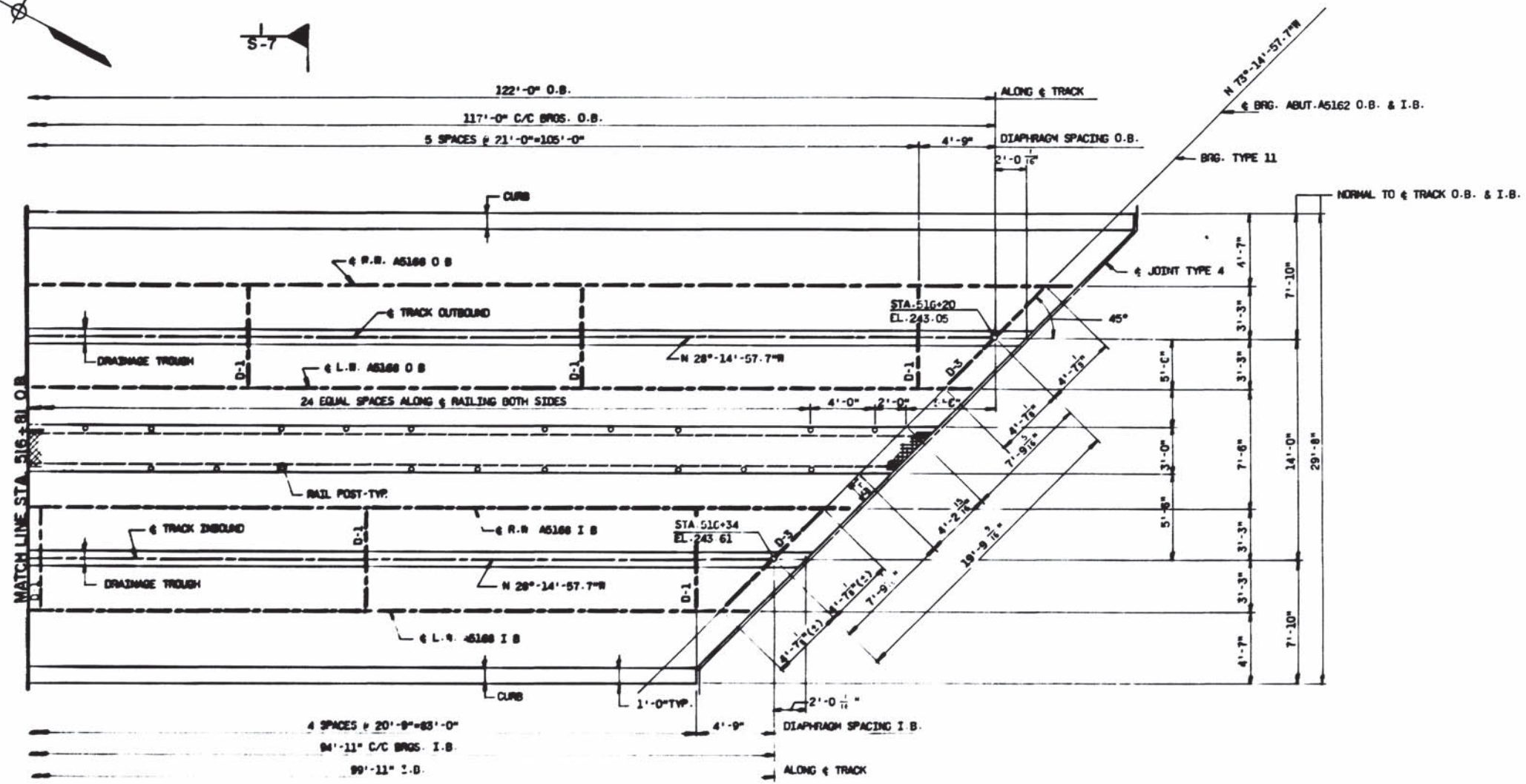


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS
 SUBMITTED [Signature]

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEZBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED [Signature]

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 UNIT A 5168 O.B. AND I.B.
 PARTIAL PLAN

SCALE 1" = 10'-0"
 DRAWING NO. A13-S-24
 M220-285



PLAN

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
RESIDENT ENGINEER DATE

DESIGNED	C.P. LEE	1/75
DRAWN	G. PARROTT	1/75
CHECKED	A.H. PATEL	5/75
APPROVED	<i>[Signature]</i>	5/75

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-73	SAFETY BALK AND CABLE TROUGH DETAILS		
A13-S-110	BEARING ASSEMBLIES		
A13-S-110	DIAPHRAGM DETAILS		
A13-S-80	BOX GIRDER SCHEDULE		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHNER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED *[Signature]*

ROCKVILLE ROUTE
AERIAL STRUCTURE
UNIT A5168 O.B. AND I.B.
PARTIAL PLAN

SCALE: 1" = 1'-0"

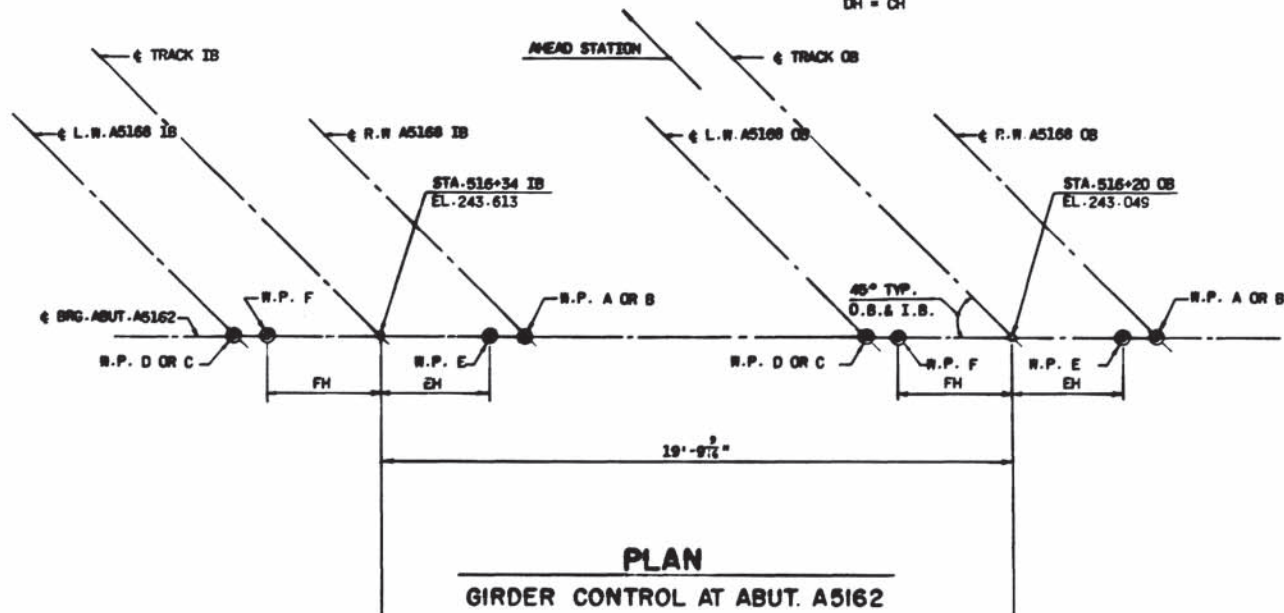
DRAWING NO. **A13-S-23**

DATE: MAY 03 1978

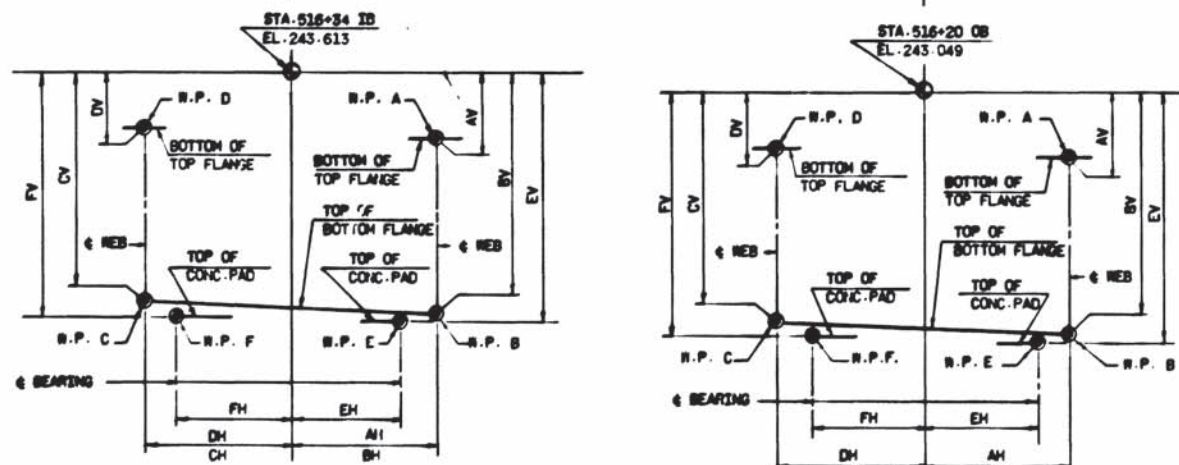
M220-286

ABUT. NUMBER	TRACK	STATION	ELEVATION	DIMENSIONS (FEET)									
				AV	BV	CV	DV	EV	FV	AH	DH	EH	FH
A5162	OB	516+20.00	243.049	2.054	7.554	7.294	1.794	7.837	7.637	4.596	4.596	3.536	3.536
	IB	516+34.00	243.613	2.054	7.554	7.294	1.794	7.837	7.637	4.596	4.596	3.536	3.536

NOTE:
AH = BH
DH = CH



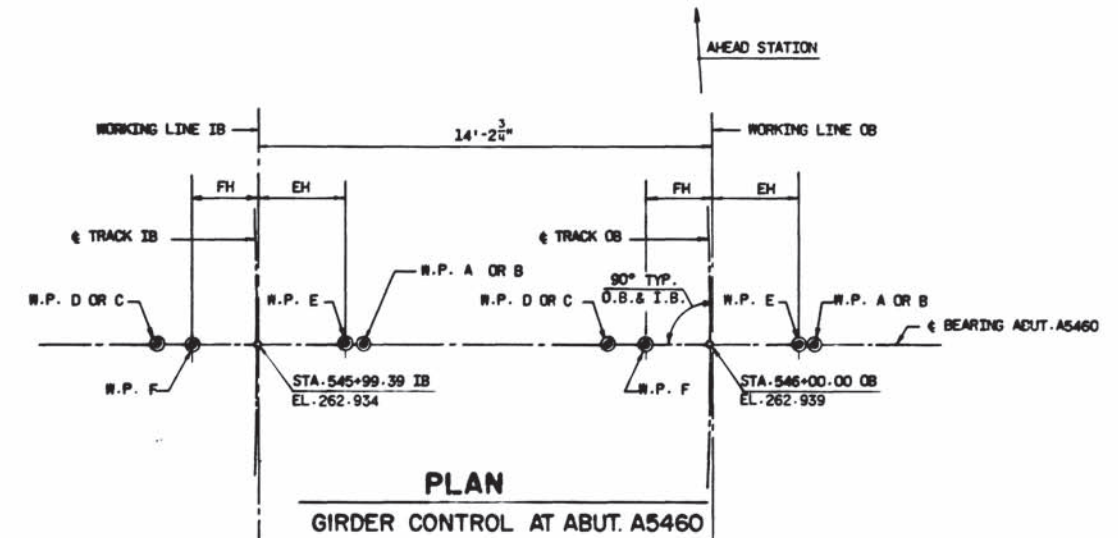
PLAN
GIRDER CONTROL AT ABUT. A5162



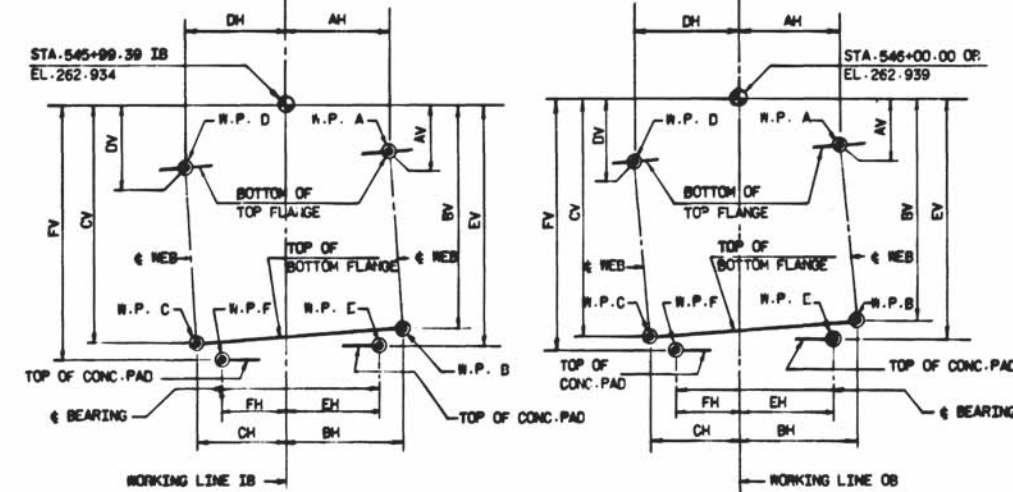
ELEVATION

NOTE:
OB = OUTBOUND
IB = INBOUND
W.P. = WORKING POINT
R.W. = RIGHT WEB
L.W. = LEFT WEB

ABUT. NUMBER	TRACK	STATION	ELEVATION	DIMENSIONS (FEET)											
				AV	BV	CV	DV	EV	FV	AH	BH	CH	DH	EH	FH
A5460	OB	546+00.00	262.939	1.422	6.903	7.440	1.959	7.480	7.893	3.234	3.689	2.789	3.244	2.946	2.037
	IB	545+99.39	262.934	1.441	6.924	7.437	1.954	7.499	7.893	3.249	3.683	2.797	3.231	2.940	2.044



PLAN
GIRDER CONTROL AT ABUT. A5460



ELEVATION

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
NEWBURY CHARTER
DATE

DESIGNED: S.P. LEE 3/75
DRAWN: G. PARODOLINO 3/75
CHECKED: S.S. PATEL 5/75
APPROVED: [Signature] 10/75

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A13-S-10	PLAN AND ELEV. ABUT. A5162 OB AND IB		
A13-S-16	PLAN AND ELEV. ABUT. AND TIE BREAKER		
	STATION ABUT. A5460 OB AND IB		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEJW, CATHY & COMPANY
GENERAL ENGINEERING CONSULTANT

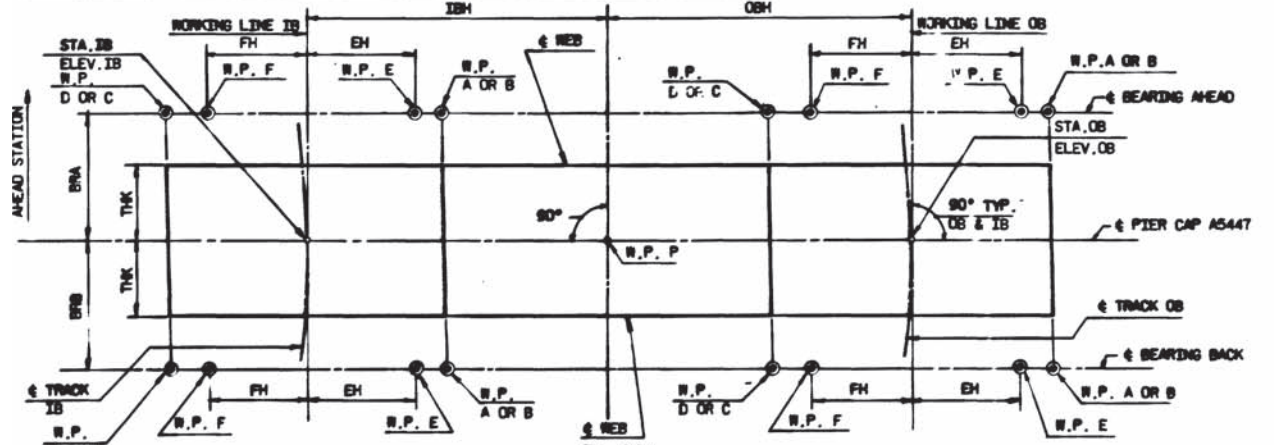
HARRY WEISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature]
APPROVED: [Signature]

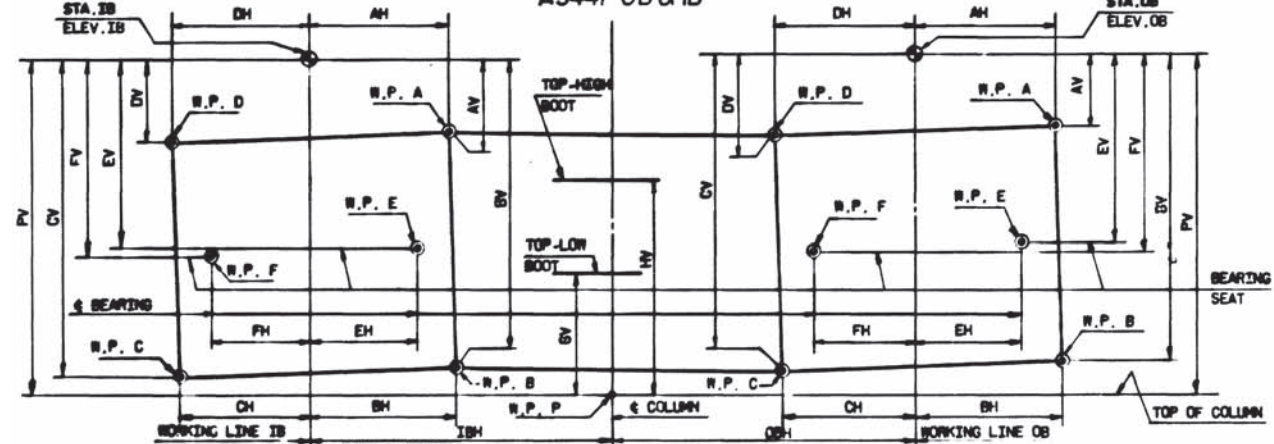
ROCKVILLE ROUTE
AERIAL STRUCTURE
BOX GIRDER GEOMETRY CONTROL
AT ABUTMENTS A5162 AND A5460

SCALE: NO SCALE
DRAWING NO.: A13-S-121
M220-287

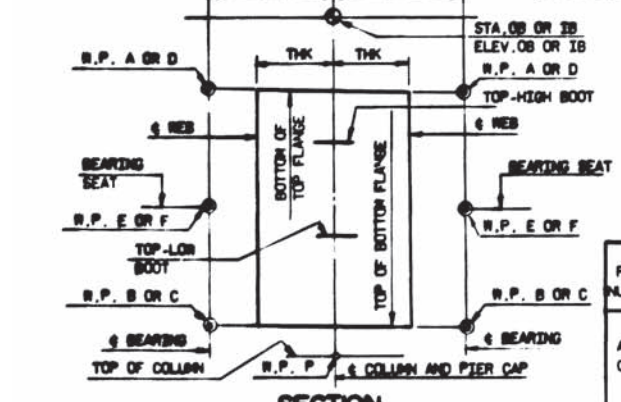
PIER NUMBER	OB AND IB	STATION AND ELEVATION	BEARING LOCATION	DIMENSION (FEET)																				
				AV	BV	CV	DV	EV	FV	PV	AH	BH	CH	DH	EH	FH	BRA	BRB	THK	OBH	IBH	GV	HV	
A5447	OB	544+75.00	BACK	1.664	7.160	7.401	1.905	4.481	4.663		3.183	3.388	3.108	3.312	2.525	2.359								
		263.377	AHEAD	1.673	7.169	7.424	1.928	4.492	4.684	7.966	3.184	3.400	3.095	3.311	2.531	2.346	3.000	3.000	1.75	7.046	7.046			
	IB	544+74.87	BACK	1.661	7.157	7.402	1.906	4.479	4.663		3.173	3.381	3.114	3.322	2.517	2.365								
		267.370	AHEAD	1.671	7.167	7.425	1.929	4.491	4.684	7.969	3.167	3.385	3.110	3.328	2.515	2.360								



PLAN
A5447 OB & IB



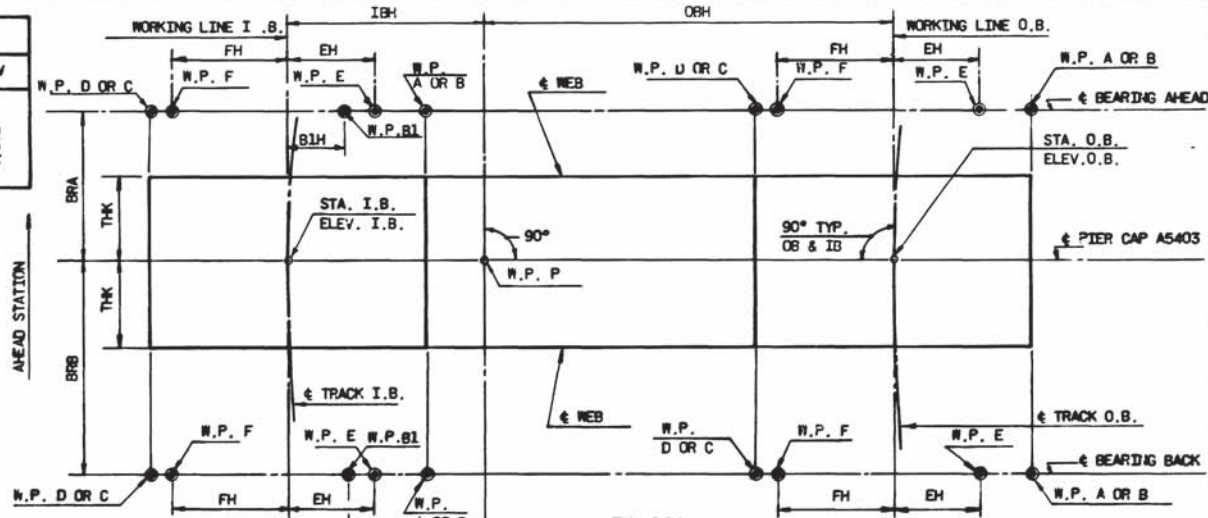
ELEVATION



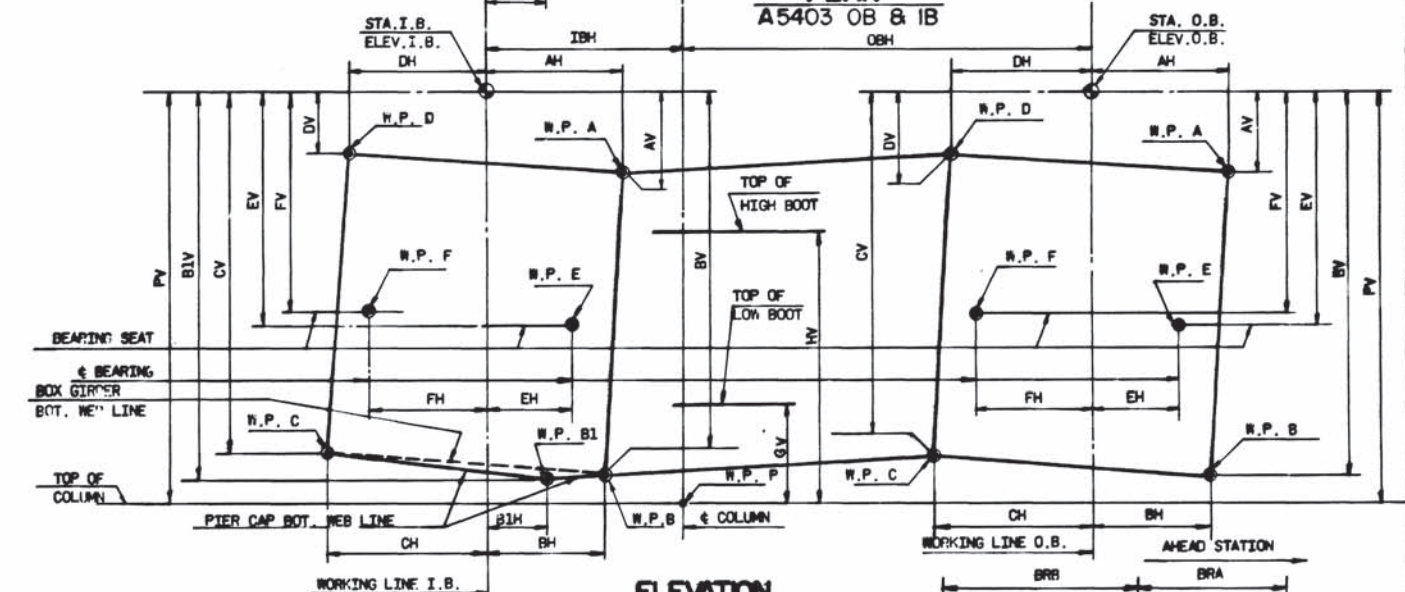
SECTION

NOTE:
 O.B. = OUTBOUND
 I.B. = INBOUND
 W.P. = WORKING POINT
 WORKING LINE A-B DENOTES LINE BETWEEN W.P. A AND W.P. B (TYPICAL FOR ALL WORKING POINTS)

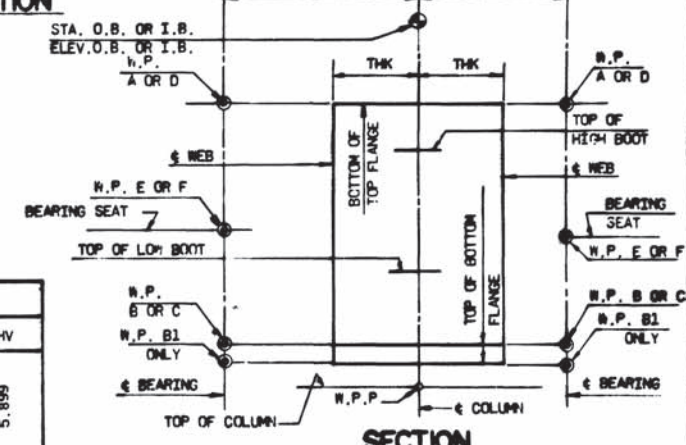
PIER NUMBER	OB AND IB	STATION AND ELEVATION	BEARING LOCATION	DIMENSION (FEET)																					
				AV	BV	B1V	CV	DV	EV	FV	PV	AH	BH	B1H	CH	DH	EH	FH	BRA	BRB	THK	OBH	IBH	GV	HV
A5403	OB	540+30.00	BACK	1.926	8.910	-	8.468	1.484	5.490	5.168		3.240	2.764	-	3.721	3.245	2.015	2.714							
		264.934	AHEAD	1.952	8.937	-	8.510	1.525	5.525	5.213	9.612	3.230	2.770	-	3.716	3.256	2.022	2.713	3.500	5.000	2.000	9.606	4.589		
	IB	540+31.36	BACK	1.929	8.911	8.993	8.448	1.466	5.489	5.152		3.248	2.749	1.339	3.735	3.236	2.001	2.714							
		264.928	AHEAD	1.956	8.940	9.020	8.493	1.509	5.525	5.199	9.606	3.244	2.763	1.339	3.722	3.241	2.014	2.707							



PLAN
A5403 OB & IB



ELEVATION



SECTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 MAY 03 1979
 REBERT BRUNER

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	DESCRIPTION
MTS-3-190	COLUMN SCHEDULE AND DETAILS		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

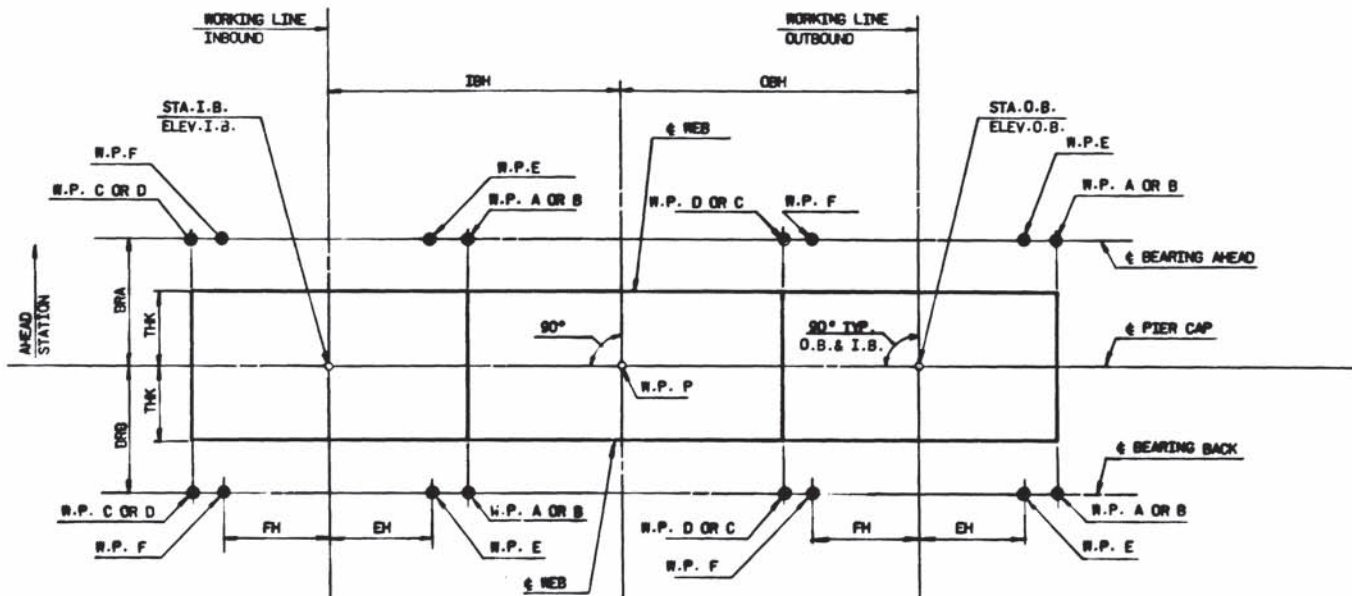
DE LEUW, CATHIER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WESSE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

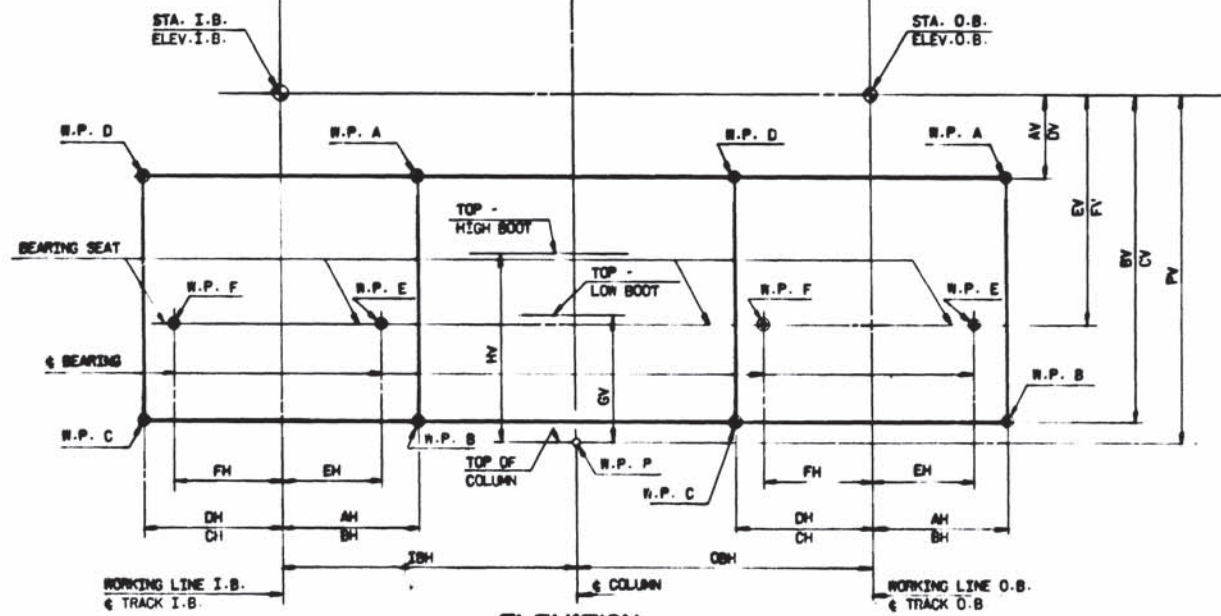
APPROVED: *[Signature]*

ROCKVILLE ROUTE AERIAL STRUCTURE PIER CAP GEOMETRY LAYOUT PIERS A 5403 AND A5447

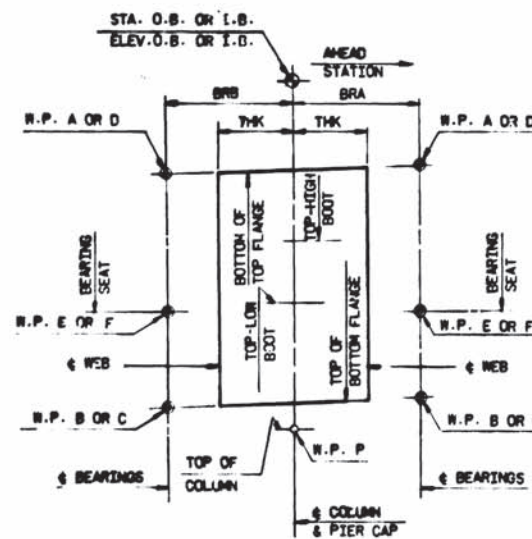
SCALE: NO SCALE
 DRAWING NO: A13-S-119
 M220-288



PLAN



ELEVATION



SECTION

PIER NUMBER	STATION AND ELEVATION	BEARING LOCATION	DIMENSIONS (FEET)															
			AV	BV	EV	PV	AH	EH	BRA	BRB	THK	OBH	IBH	CV	FV			
A5186 OB: IB	518+64	BACK	2.044	7.544	4.836		3.250	2.50										
	252.81	AHEAD	1.804	7.304	4.596	8.086	3.250	2.50	3.000	3.000	1.750	7.000	7.000		2.662	4.662		
A5356 OB: IB	535+56	BACK	1.915	6.415	4.550		3.250	2.50										
	266.59	AHEAD	1.933	6.433	4.568	6.975	3.250	2.50	2.500	2.500	1.500	7.000	7.000		2.551	3.551		
A5435 OB: IB	543+50	BACK	1.912	8.912	5.558		3.250	2.50										
	263.81	AHEAD	1.940	8.940	5.581	9.485	3.250	2.50	4.500	3.500	2.000	7.000	7.000		2.559	3.559		

NOTE:

- OB - DENOTES OUTBOUND TRACK
- IB - DENOTES INBOUND TRACK
- WORKING LINE A-B DENOTES LINE BETWEEN W.P. A AND W.P. B (TYP. FOR ALL WORKING POINTS)
- AV = DV
- BV = CV
- EV = FV
- AH = BH = CH = DH
- EH = FH
- W.P. = WORKING POINT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 MAY 03 1978
 DATE

DESIGNED C.P. LEE 2/75
 DRAWN S. PAROLFINO 2/75
 CHECKED A.N. PATEL 6/75
 APPROVED [Signature] 8/75

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A13-S-140	COLUMN SCHEDULE AND DETAILS			

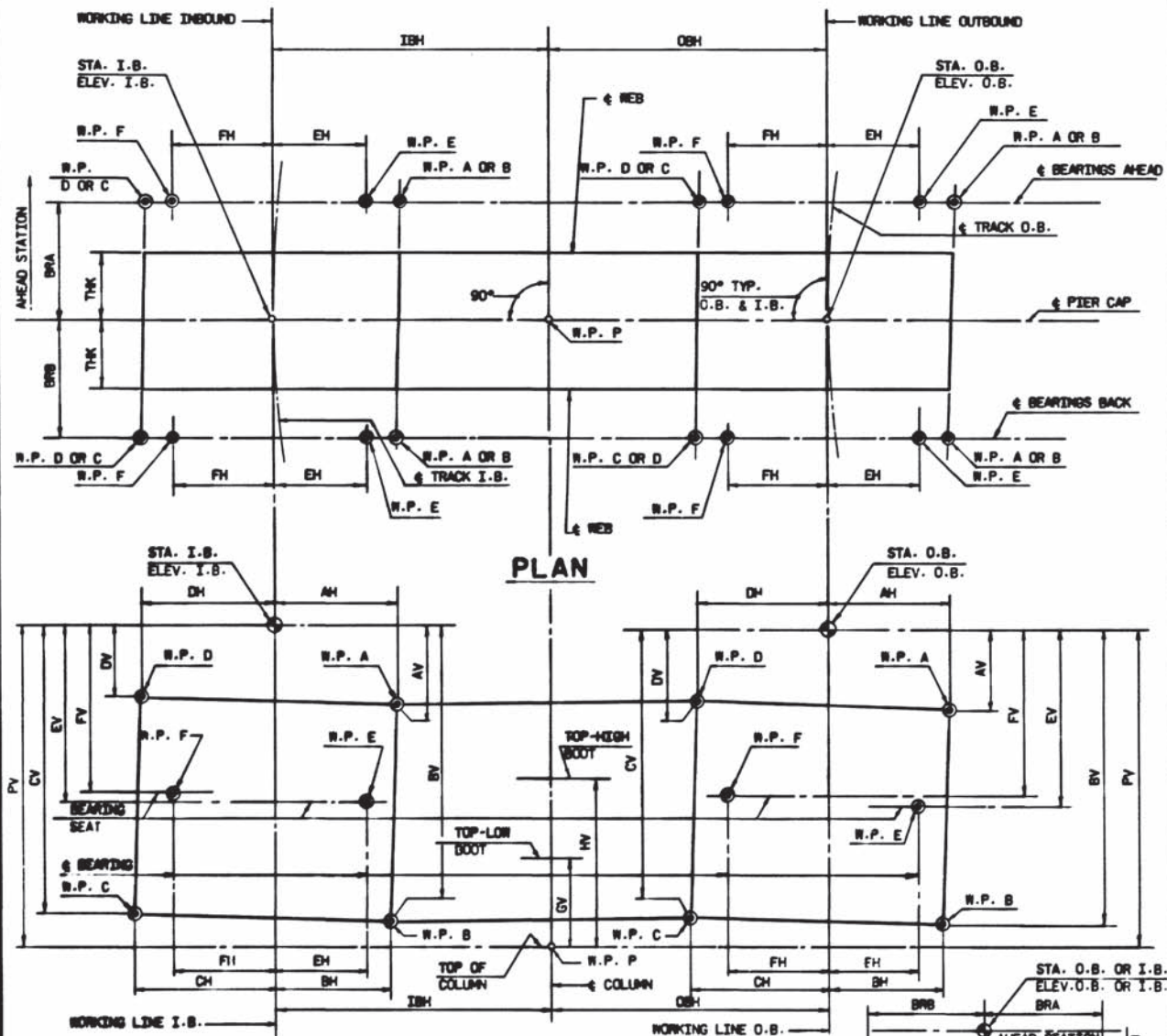
DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS
 SUBMITTED [Signature]

DE LEUW, CATHIER & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEISE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED [Signature]

ROCKVILLE ROUTE
 AERIAL STRUCTURE
 PIER CAP GEOMETRY LAYOUT
 PIERS A5186, A5356, A5435
 SCALE: NO SCALE
 DRAWING NO. A13-S-92
 M220-289



PIER NUMBER	O.B. AND I.B.	STATION AND ELEVATION	BEARING LOCATION	DIMENSIONS (FEET)																				
				AV	BV	CV	DV	EV	FV	PV	AH	BH	CH	DH	EH	FH	BRA	BRB	THK	OBH	IBH	GV	HV	
A5199	O.B.	519+92.00	BACK	2.011	7.509	7.341	1.843	4.900	4.772	8.042	3.285	3.142	3.355	3.213	2.393	2.527								
		257.776	AHEAD	1.797	7.295	7.114	1.616	4.684	4.547		3.293	3.140	3.358	3.204	2.390	2.523								
		513+92.05	BACK	2.008	7.507	7.354	1.885	4.899	4.783	8.049	3.274	3.144	3.354	3.225	2.394	2.533	3.000	3.000	1.750	7.017	7.017	2.735	4.735	
A5212	O.B.	257.783	AHEAD	1.794	7.293	7.126	1.628	4.684	4.557		3.276	3.135	3.363	3.222	2.385	2.535								
		521+20.00	BACK	2.027	7.514	7.074	1.587	4.748	4.423	8.041	3.199	2.826	3.659	3.286	2.078	2.705								
		261.929	AHEAD	1.855	7.342	6.889	1.402	4.574	4.240		3.191	2.807	3.677	3.294	2.059	2.717	3.000	3.000	1.750	7.086	7.086	2.847	4.847	
A5238	O.B.	521+20.33	BACK	2.030	7.517	7.067	1.580	4.749	4.418	8.059	3.205	2.825	3.660	3.279	2.077	2.701								
		261.947	AHEAD	1.857	7.343	6.880	1.394	4.574	4.233		3.193	2.801	3.683	3.291	2.053	2.718								
		523+84.00	BACK	2.030	7.498	6.805	1.336	4.693	4.194	8.003	3.251	2.665	3.798	3.212	1.919	2.728	3.750	3.000	1.750	7.121	7.121	2.919	4.919	
A5248	O.B.	267.680	AHEAD	1.932	7.400	6.707	1.238	4.595	4.096		3.252	2.666	3.797	3.211	1.920	2.727								
		523+85.53	BACK	2.029	7.497	6.804	1.335	4.692	4.193	8.039	3.251	2.665	3.798	3.212	1.919	2.728								
		267.716	AHEAD	1.931	7.399	6.706	1.237	4.594	4.095		3.252	2.666	3.797	3.211	1.920	2.727								
A5258	O.B.	524+84.00	BACK	2.009	6.483	5.790	1.315	4.525	4.018	6.990	3.251	2.771	3.692	3.212	2.025	2.702								
		268.869	AHEAD	1.963	6.437	5.744	1.269	4.479	3.972		3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.894	3.894	
		524+86.02	BACK	2.009	6.483	5.790	1.315	4.525	4.018	7.025	3.251	2.771	3.692	3.212	2.025	2.702								
A5258	O.B.	268.904	AHEAD	1.963	6.437	5.744	1.269	4.479	3.972		3.251	2.771	3.692	3.212	2.025	2.702								
		525+82.00	BACK	1.995	6.469	5.776	1.301	4.418	3.910	6.983	3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.884	3.884	
		269.506	AHEAD	1.976	6.450	5.757	1.282	4.399	3.891		3.251	2.771	3.692	3.212	2.025	2.702								
A5268	O.B.	525+84.51	BACK	1.995	6.469	5.776	1.301	4.418	3.910	7.011	3.251	2.771	3.692	3.212	2.025	2.702								
		269.534	AHEAD	1.976	6.450	5.757	1.282	4.399	3.891		3.251	2.771	3.692	3.212	2.025	2.702								
		526+80.00	BACK	1.982	6.456	5.763	1.288	4.498	3.991	6.990	3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.884	3.884	
A5268	O.B.	269.622	AHEAD	1.990	6.464	5.771	1.296	4.506	3.999		3.251	2.771	3.692	3.212	2.025	2.702								
		526+82.99	BACK	1.982	6.456	5.763	1.288	4.498	3.991	7.006	3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.884	3.884	
		269.638	AHEAD	1.990	6.464	5.771	1.296	4.506	3.999		3.251	2.771	3.692	3.212	2.025	2.702								
A5279	O.B.	527+92.00	BACK	1.977	6.451	5.758	1.283	4.400	3.892	7.002	3.251	2.771	3.692	3.212	2.025	2.702								
		269.267	AHEAD	1.995	6.469	5.776	1.301	4.418	3.910		3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.898	3.898	
		527+95.54	BACK	1.977	6.451	5.758	1.283	4.400	3.892	7.011	3.251	2.771	3.692	3.212	2.025	2.702								
A5290	O.B.	269.276	AHEAD	1.995	6.469	5.776	1.301	4.418	3.910		3.251	2.771	3.692	3.212	2.025	2.702								
		529+04.00	BACK	1.977	6.451	5.758	1.283	4.493	3.986	7.004	3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.894	3.894	
		268.875	AHEAD	1.995	6.469	5.776	1.301	4.511	4.004		3.251	2.771	3.692	3.212	2.025	2.702								
A5302	O.B.	529+08.10	BACK	1.977	6.451	5.758	1.283	4.493	3.986	7.011	3.251	2.771	3.692	3.212	2.025	2.702								
		268.882	AHEAD	1.995	6.469	5.776	1.301	4.511	4.004		3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.895	3.895	
		530+16.00	BACK	1.977	6.451	5.758	1.283	4.400	3.892	7.006	3.251	2.771	3.692	3.212	2.025	2.702								
A5302	O.B.	268.483	AHEAD	1.995	6.469	5.776	1.301	4.418	3.910		3.251	2.771	3.692	3.212	2.025	2.702								
		530+20.65	BACK	1.977	6.451	5.758	1.283	4.400	3.892	7.011	3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.895	3.895	
		268.488	AHEAD	1.995	6.469	5.776	1.301	4.418	3.910		3.251	2.771	3.692	3.212	2.025	2.702								
A5313	O.B.	531+28.00	BACK	1.977	6.451	5.758	1.283	4.493	3.986	7.007	3.251	2.771	3.692	3.212	2.025	2.702								
		268.091	AHEAD	1.994	6.468	5.775	1.300	4.510	4.003		3.251	2.771	3.692	3.212	2.025	2.702	2.500	2.500	1.500	7.121	7.121	2.895	3.895	
		531+33.20	BACK	1.977	6.451	5.758	1.283	4.493	3.986	7.010	3.251	2.771	3.692	3.212	2.025	2.702								
A5324	O.B.	268.094	AHEAD	1.994	6.468	5.775	1.300	4.510	4.003		3.251	2.771	3.692	3.212	2.025	2.702								
		532+40.00	BACK	1.960	6.440	5.830	1.350	4.401	3.952	7.001	3.224	2.801	3.670	3.248	2.054	2.708	2.500	2.500	1.500	7.116	7.116	2.882	3.882	
		267.699	AHEAD	1.916	6.457	5.857	1.376	4.419	3.977		3.218	2.803	3.670	3.254	2.056	2.711								
A5335	O.B.	532+45.74	BACK	1.965	6.444	5.809	1.351	4.401	3.935	7.002	3.237	2.798	3.671	3.232	2.051	2.701	2.500	2.500	1.500	7.116	7.116	2.882	3.882	
		267.700	AHEAD	1.981	6.460	5.837	1.358	4.420	3.961		3.235	2.803	3.667	3.235	2.057	2.700								
		533+52.00	BACK	1.926	6.419	6.047	1.554	4.507	4.229	6.978	3.289	3.032	3.458	3.200	2.283	2.578								
A5345	O.B.	267.707	AHEAD	1.943	6.436	6.075	1.582	4.526	4.255		3.303	3.052	3.438	3.187	2.304	2.561								
		533+58.13	BACK	1.927	6.420	6.045	1.552	4.508	4.227	6.978	3.277	3.018	3.472	3.212	2.269	2.591	2.500	2.500	1.500	7.085	7.085	2.780	3.780	
		267.307	AHEAD	1.943	6.436	6.073	1.580	4.526	4.254		3.296	3.044	3.446	3.194	2.295	2.569								
A5345	O.B.	534+54.00	BACK	1.892	6.390	6.235	1.736	4.413	4.295	6.947	3.276	3.169	3.329	3.222	2.419	2.525	2.500	2.500	1.500	7.035	7.035	2.621	3.621	
		266.950	AHEAD	1.908	6.407	6.262	1.763	4.431	4.321		3.270	3.170	3.328	3.228	2.420	2.528								
		534+60.31	BACK	1.889	6.388	6.249	1.750	4.413	4.307	6.946	3.262	3.166	3.332	3.236	2.417	2.533								
A5366	O.B.	266.949	AHEAD	1.905	6.404	6.277	1.778	4.431	4.334		3.261	3.173	3.326	3.238	2.423	2.531								
		536+58.00	BACK	1.881	6.380	6.305	1.805	4.413	4.355	6.940	3.251	3.190	3.301	3.248	2.449	2.524	2.500	2.500	1.500	7.035	7.035	2.621	3.621	
		266.237	AHEAD	1.899	6.398	6.314																		