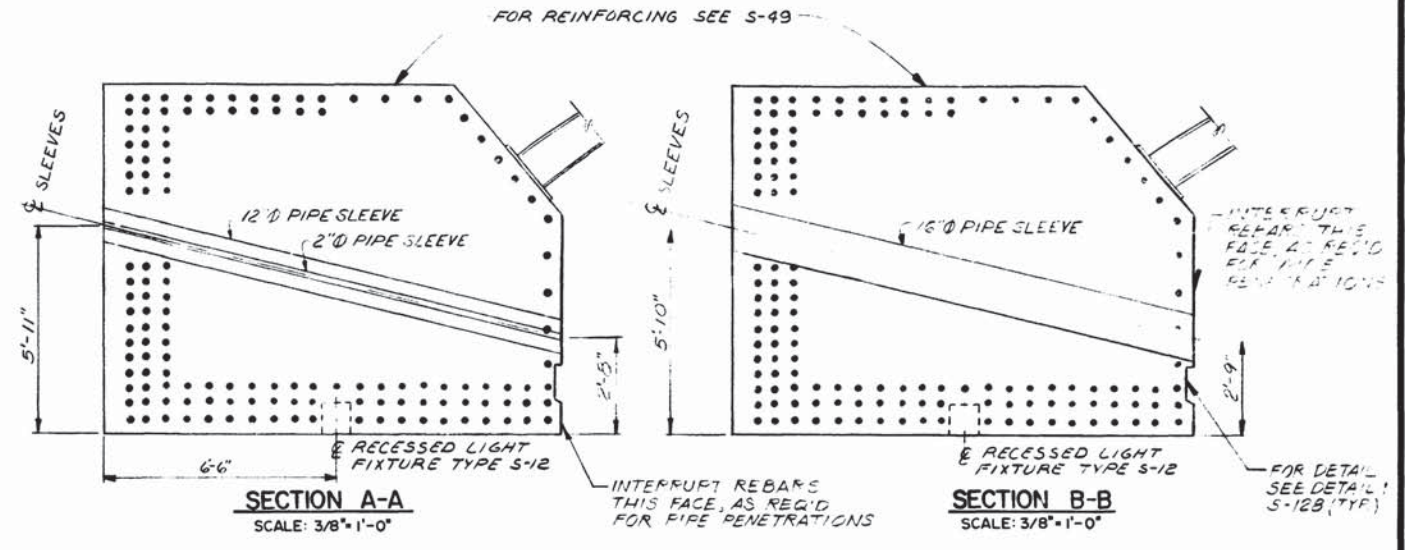
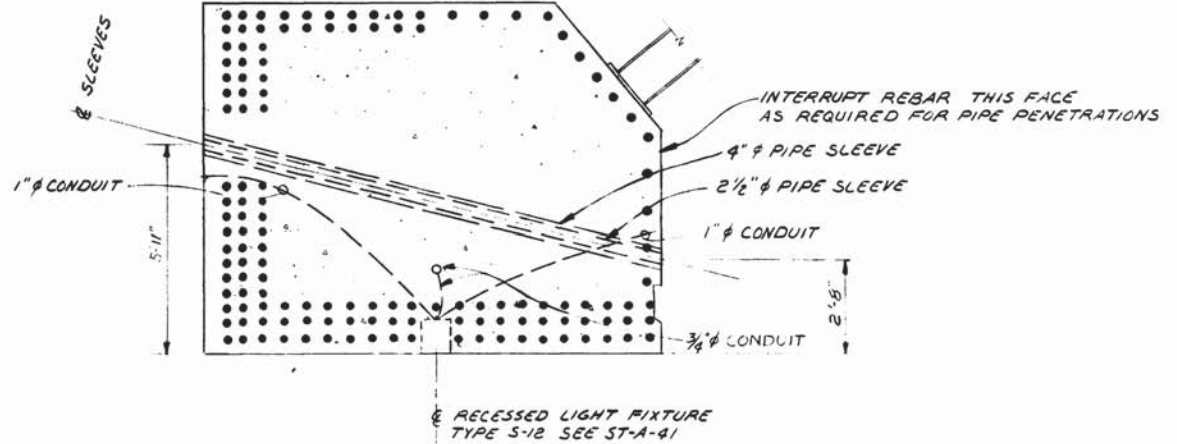


**ELEVATION L-L**  
SCALE: 3/8"=1'-0"

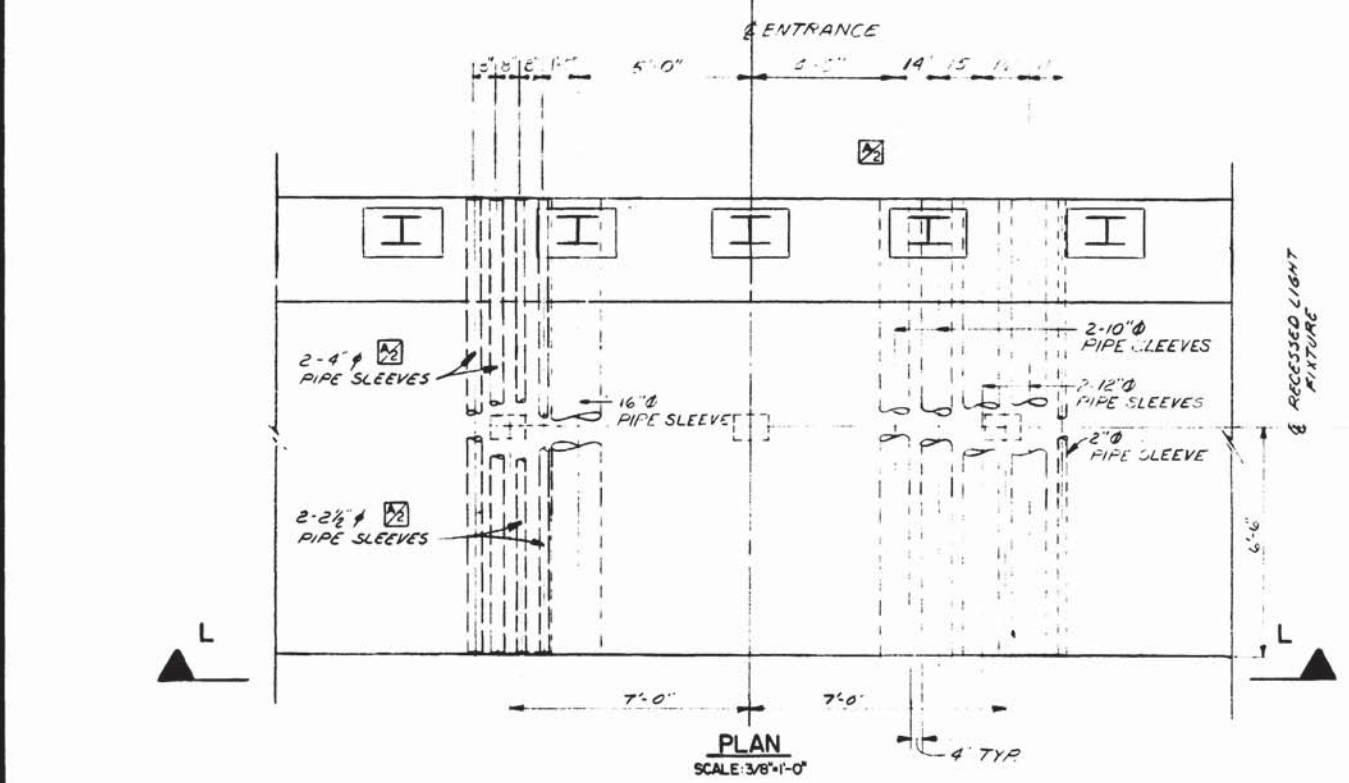


**SECTION A-A**  
SCALE: 3/8"=1'-0"

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



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



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

**NOTES:**  
1. PIPES PENETRATING COLLAR ARE STEEL SLEEVES AND MUST BE CUT OFF FLUSH WITH FRONT & REAR FACES OF THE COLLAR BEAM  
2. PIPE  $\phi$  = INSIDE DIAMETER

DESIGNED	R. A. BUTLER	10-16-75	DATE
DRAWN	F. L. AMOS	10-28-75	DATE
CHECKED	T. P. SMIRNOFF	11-5-75	DATE
APPROVED	<i>[Signature]</i>	5-12-76	DATE

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
S-41	PASSAGEWAY TO STATION	7/11/77	MFC
S-43	PASSAGEWAY AND MECHANICAL ROOM SECTIONS		



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHews • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 05-12-77

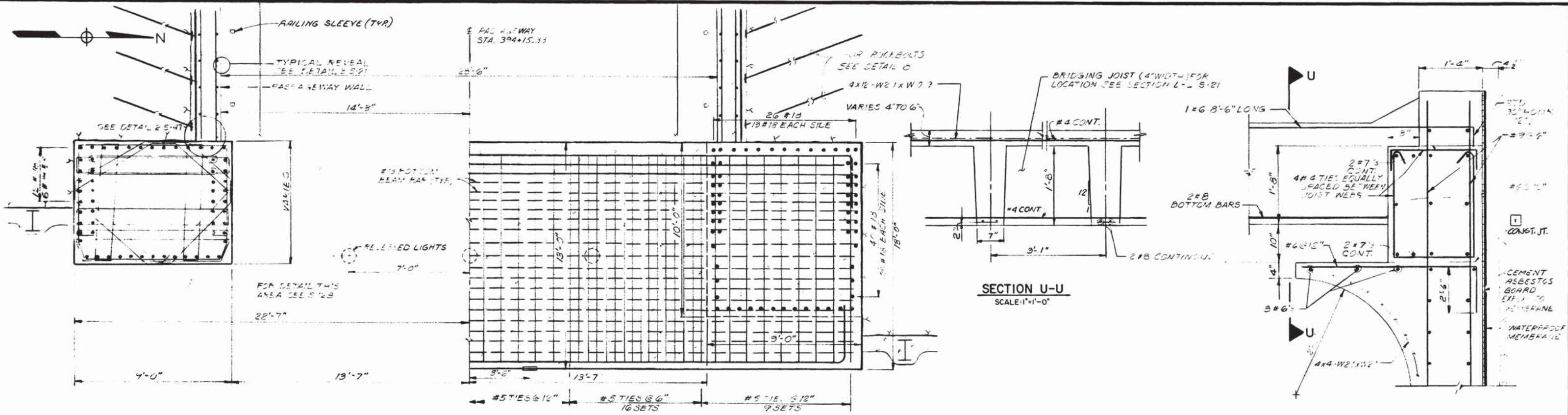
APPROVED *[Signature]*

**ROCKVILLE ROUTE  
BETHESDA STATION  
ENTRANCE BEAM PENETRATIONS**

SCALE: NOTED

DRAWING NO. A11b-S-51

M276-76



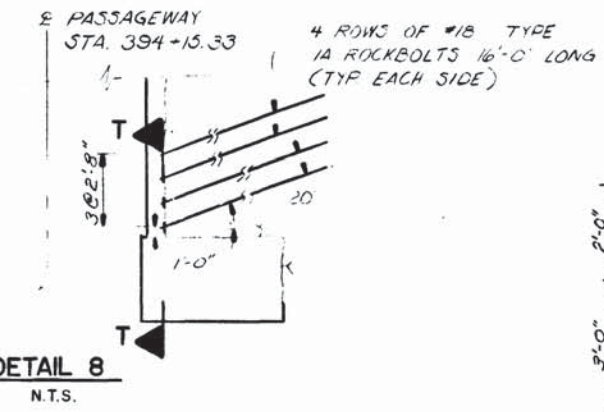
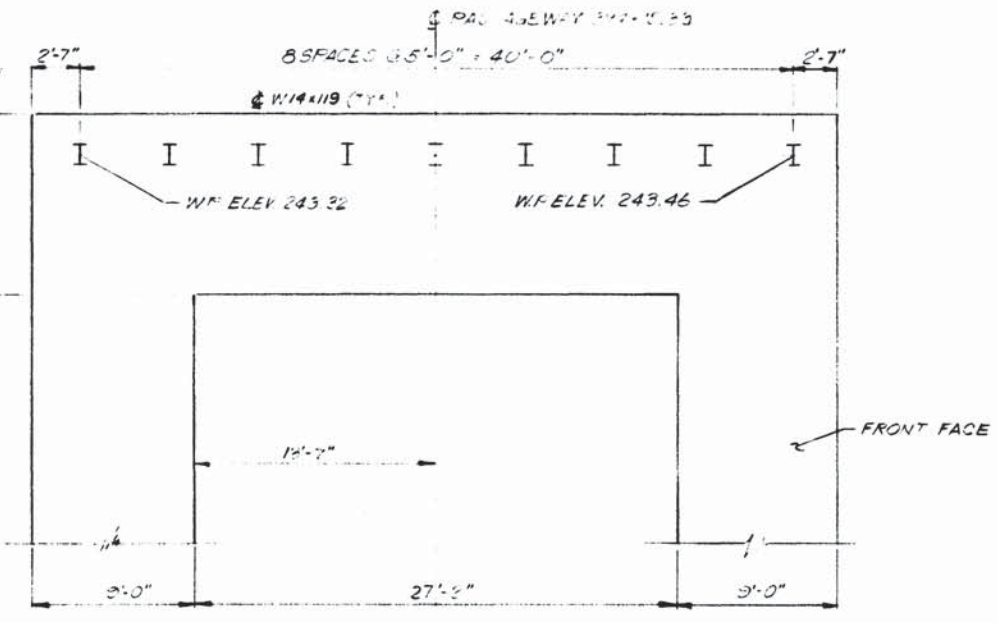
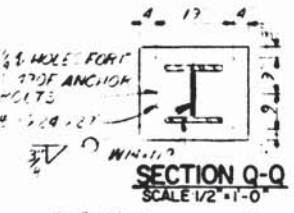
**SECTION U-U**  
SCALE: 1" = 1'-0"

**DETAIL 6**  
S-47  
SCALE: 1" = 1'-0"

**SECTION P-P**  
S-48  
SCALE: 3/8" = 1'-0"

**DETAIL 8**  
N.T.S.

**ROOF SCUTTLE OPENING DETAIL**  
S-41  
SCALE: 1/2" = 1'-0"



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
AS SHOWN IN POSITION  
DATE

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
R. A. BUTLER	10-15-73	S-45	ENTRANCE COLLAR	12-1-73	AK	1 REV. PER FIELD COND. AS BUILT
F. L. AMOS	11-4-75					
T. P. SMIRNOFF	11-5-75					



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

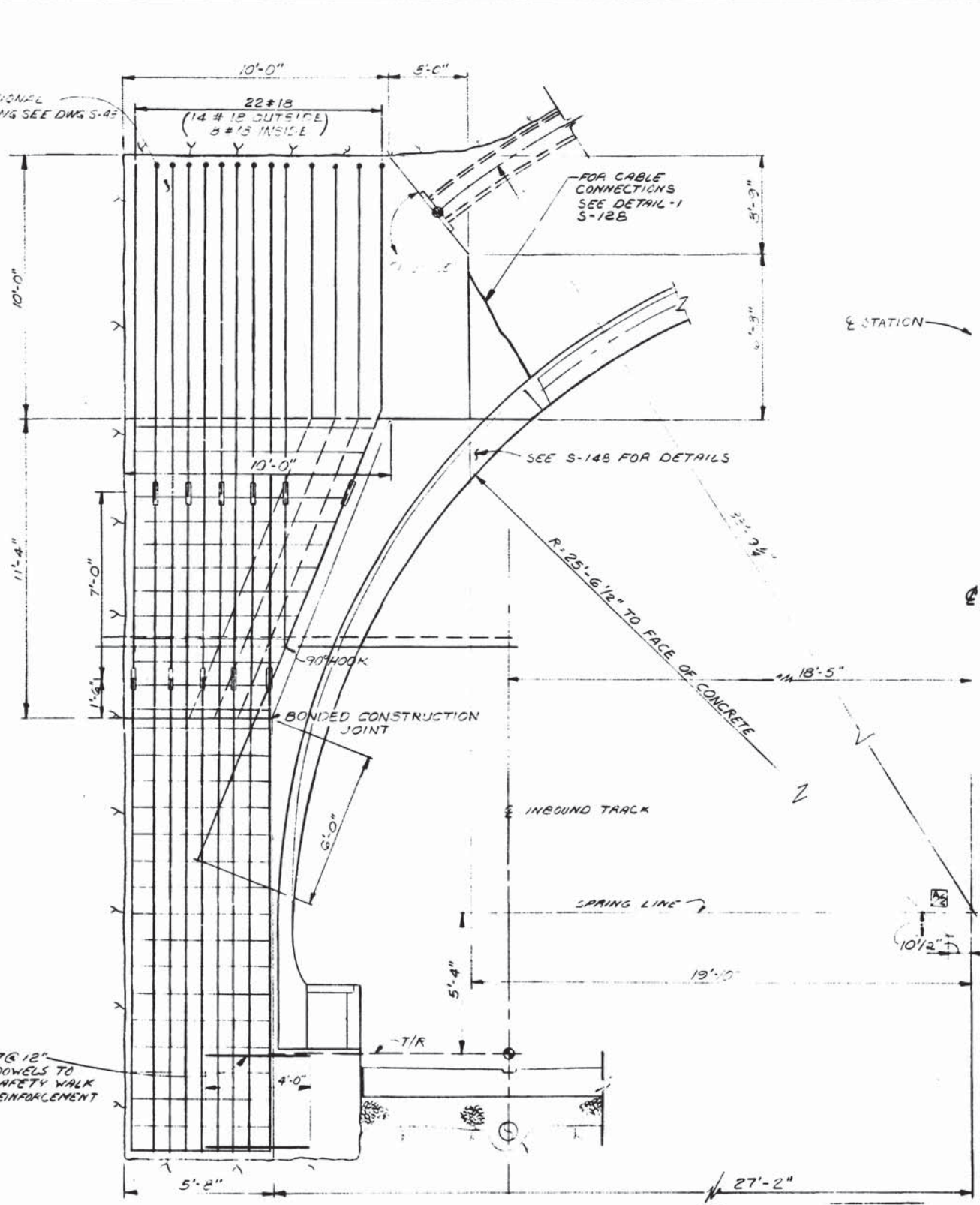
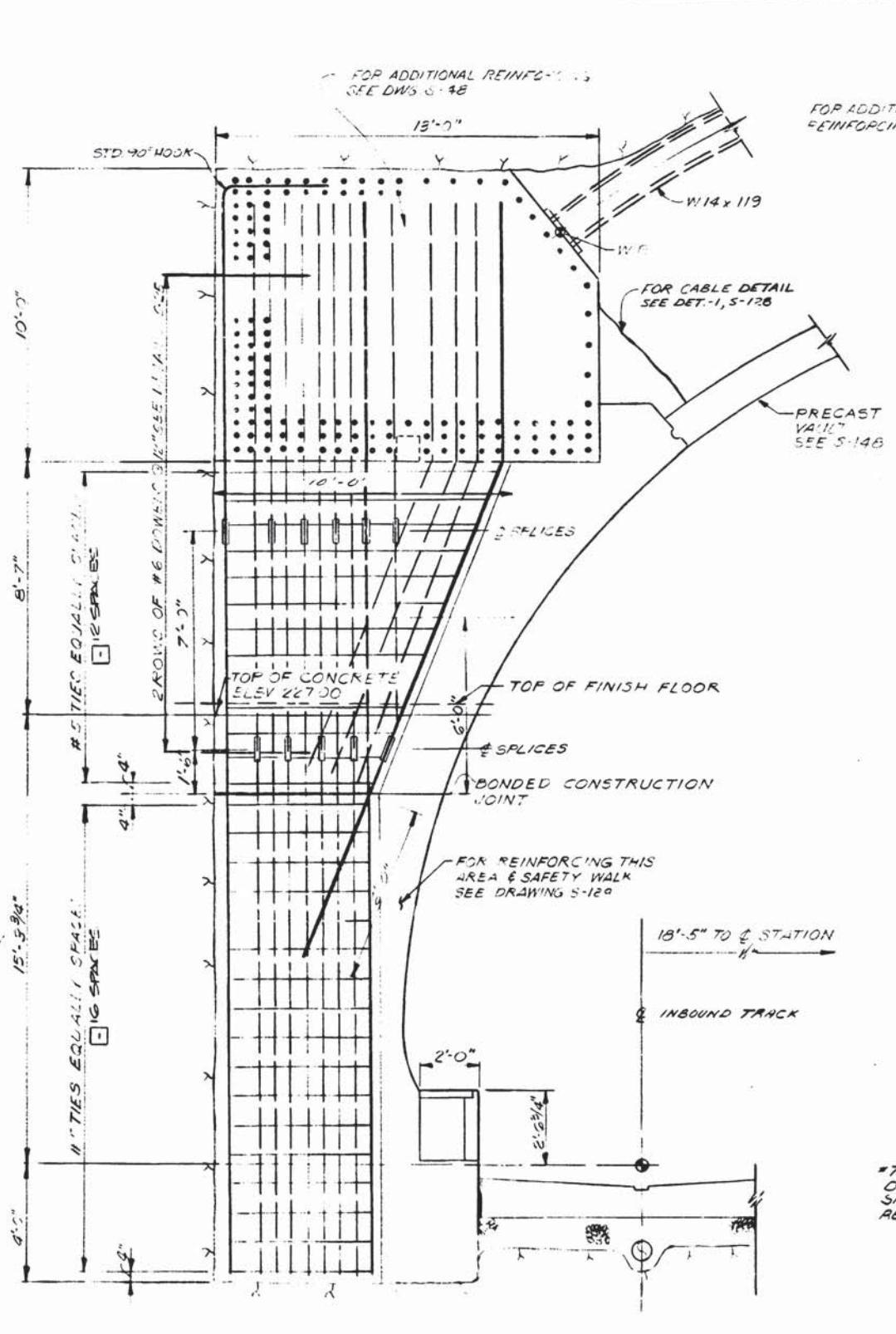
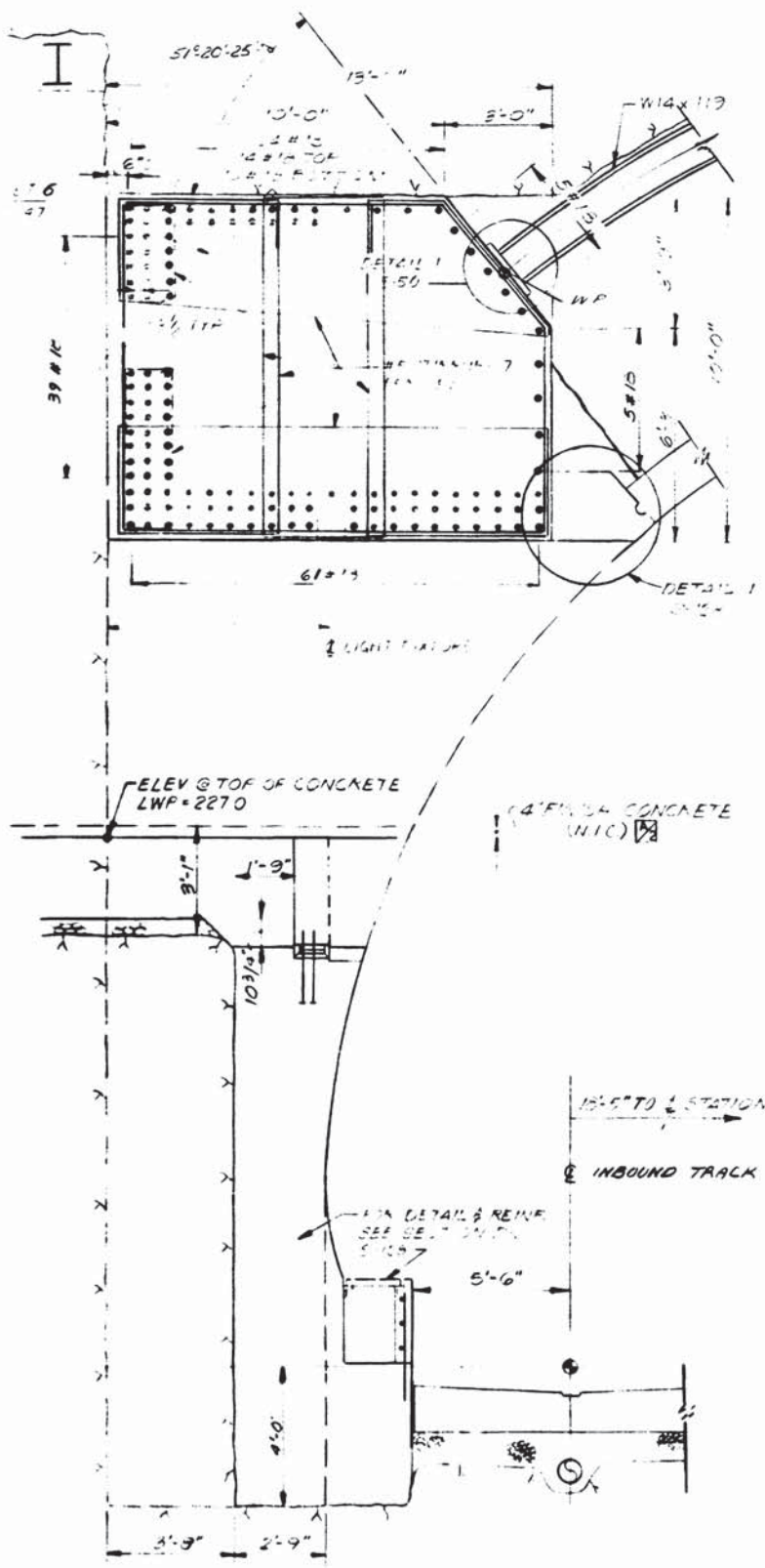
HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Cliff* DATE 11-12-77 APPROVED *Robert*

**ROCKVILLE ROUTE**  
BETHESDA STATION  
ENTRANCE BEAM & COLUMN SECTIONS & DETAILS

SCALE: 3/8" = 1'-0" AND AS NOTED

DRAWING NO. A11b-S-50 M276-75



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
ARCHITECTURAL CONSULTANT  
*Robert J. Beall*

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
R. A. BUTLER	10-3-75	S-45	ENTRANCE COLLAR	7/11/77	JLB	DELETED 3/4" DIMENSION & ADDED N.I.C. TO FINISH CONC.
F. L. AMOS	10-23-75	S-148	PRECAST VAULT AND PLATFORM DETAILS			
T. P. SMIRNOFF	10-24-75					



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

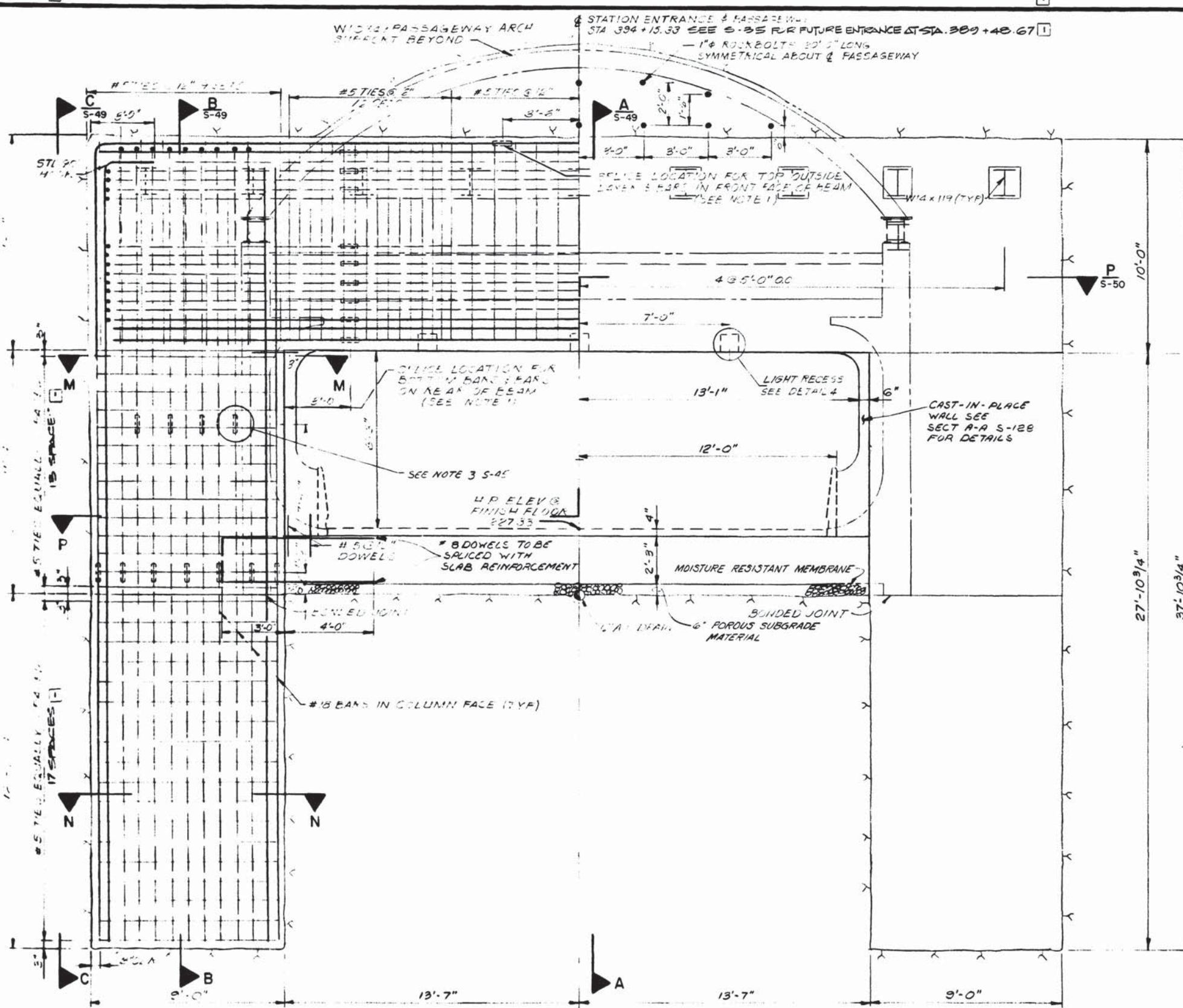
DE LEUW, CATHY & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

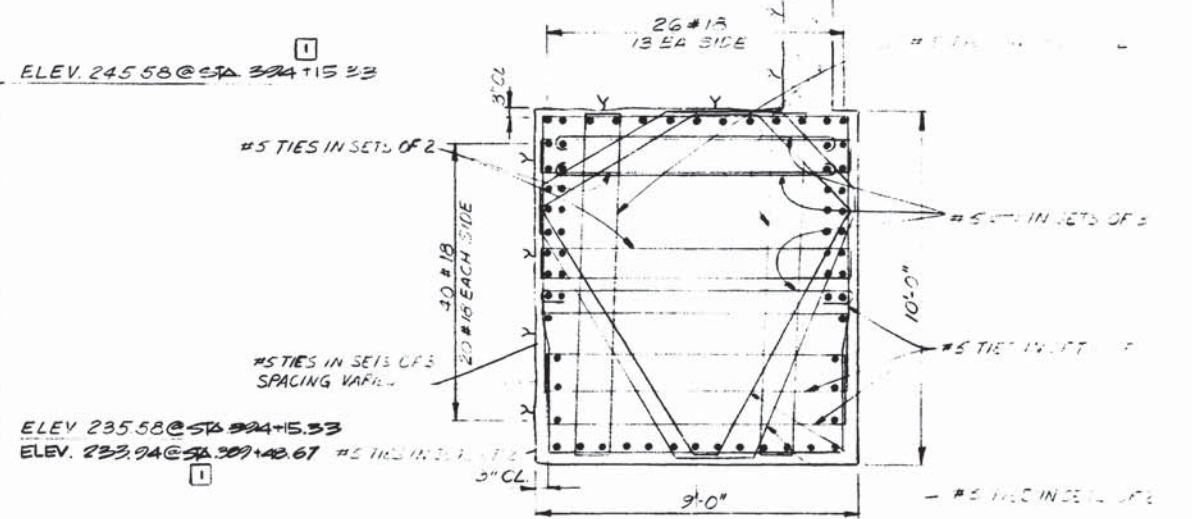
SUBMITTED *Cap...* DATE 05-12-77 APPROVED *Robert J. Beall*

**ROCKVILLE ROUTE**  
BETHESDA STATION  
ENTRANCE BEAM & COLUMN

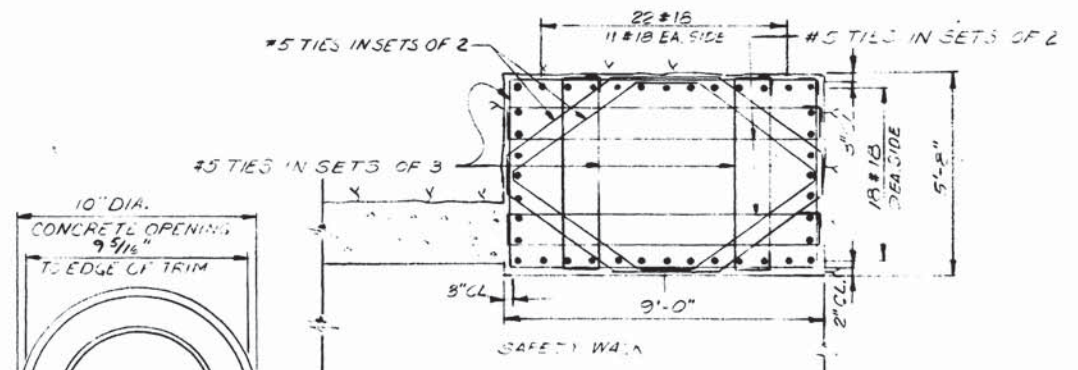
SCALE: 3/8" = 1'-0" DRAWING NO. A11b-S-49 M276-74



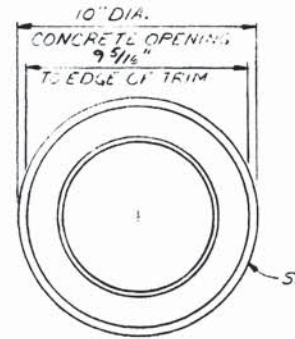
SECTION BB-BB  
S-40



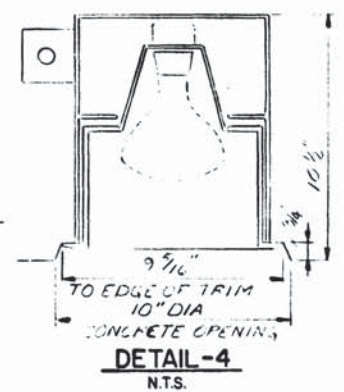
SECTION M-M



SECTION N-N



REFLECTED PLAN

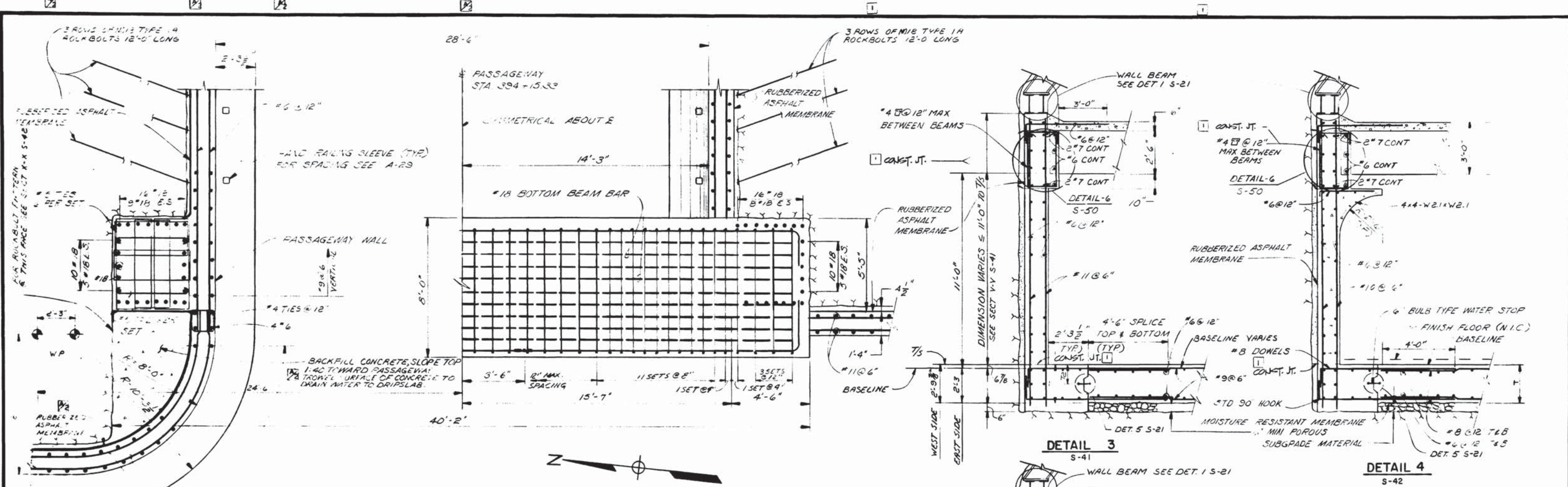


RECESSED LIGHT FIXTURE (TYPE S-12)

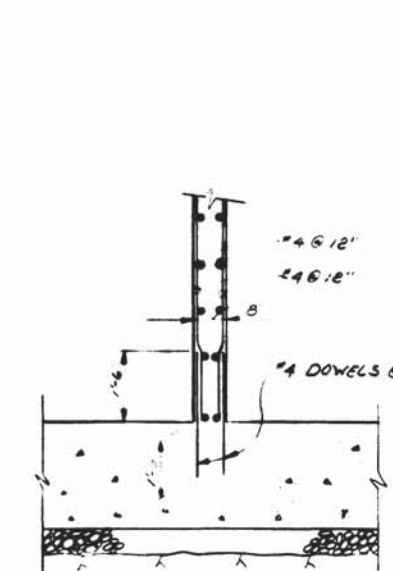
- VOTES
1. REINFORCING DETAILS SHOWN ARE SYMMETRICAL ABOUT THE CENTERLINE OF THE PASSAGEWAY
  2. REBAR SPLICES SHOWN FOR FRAME ARE TO BE ALTERNATED EACH SIDE OF THE PASSAGEWAY

AS  
A. H. Weese

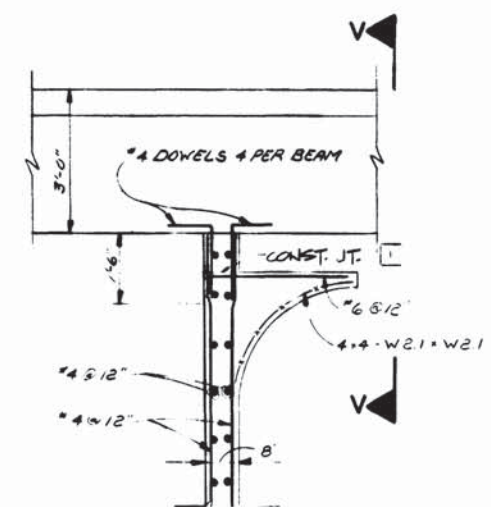
DESIGNED R. A. BUTLER 10-7-75 DATE	REFERENCE DRAWINGS	REVISIONS		<b>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</b>		<b>ROCKVILLE ROUTE BETHESDA STATION ENTRANCE BEAM &amp; COLUMN</b>														
DRAWN F. L. AMOS 10-21-75 DATE	<table border="1"> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>S-46</td> <td>ENTRANCE COLLAR SECTIONS AND DETAILS</td> <td>10-15-75</td> <td>HTW</td> <td>REV. FOR FIELD AND DS BU. 1</td> </tr> <tr> <td>S-47</td> <td>ENTRANCE COLLAR SECTIONS AND DETAILS</td> <td></td> <td></td> <td></td> </tr> </table>	NUMBER		DESCRIPTION	DATE	BY	DESCRIPTION	S-46	ENTRANCE COLLAR SECTIONS AND DETAILS	10-15-75	HTW	REV. FOR FIELD AND DS BU. 1	S-47	ENTRANCE COLLAR SECTIONS AND DETAILS				MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER		DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION																
S-46	ENTRANCE COLLAR SECTIONS AND DETAILS	10-15-75	HTW	REV. FOR FIELD AND DS BU. 1																
S-47	ENTRANCE COLLAR SECTIONS AND DETAILS																			
CHECKED T. P. SMIRNOFF 10-22-75 DATE				HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT		SCALE 3/8" = 1'-0"														
APPROVED [Signature] DATE				SUBMITTED [Signature] DATE 02-12-77		DRAWING NO. A11b-S-48 M276-73														



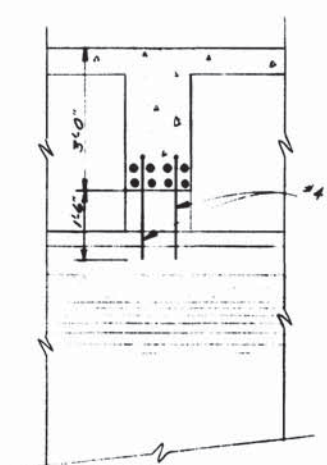
**SECTION P-P**  
S-45



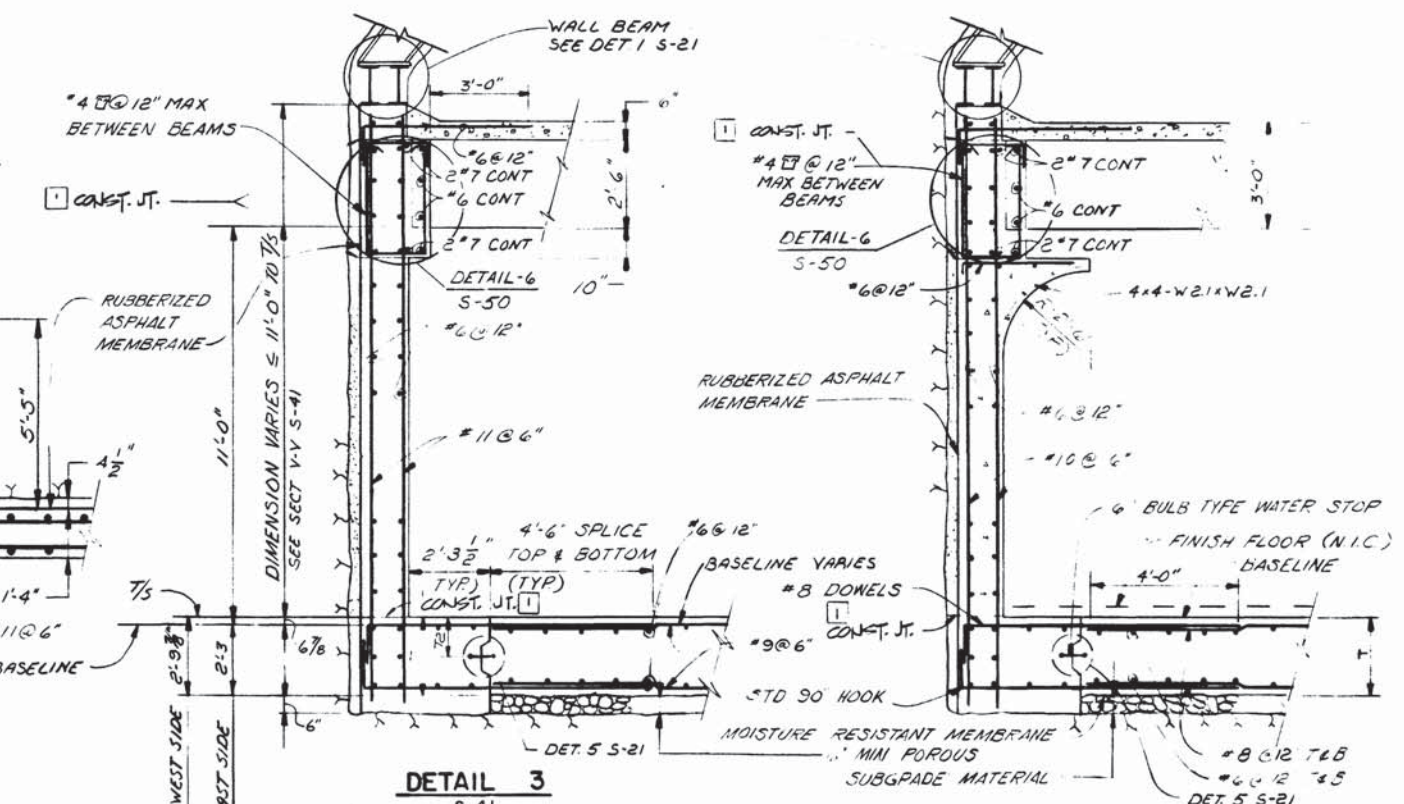
**DETAIL 7**  
S-41  
SCALE: 1/8" = 1'-0"



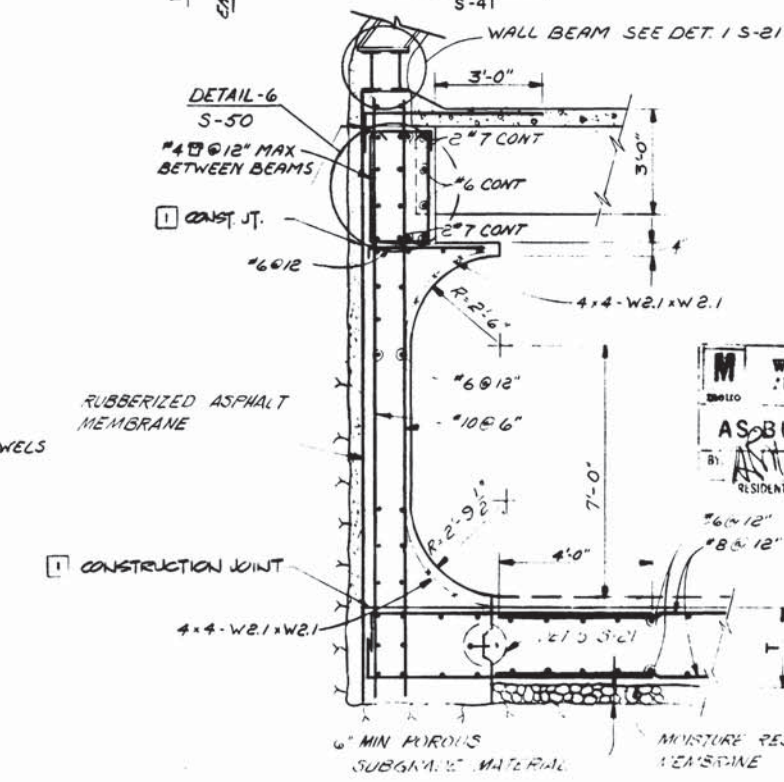
**DETAIL 8**  
S-41  
SCALE: 1/8" = 1'-0"



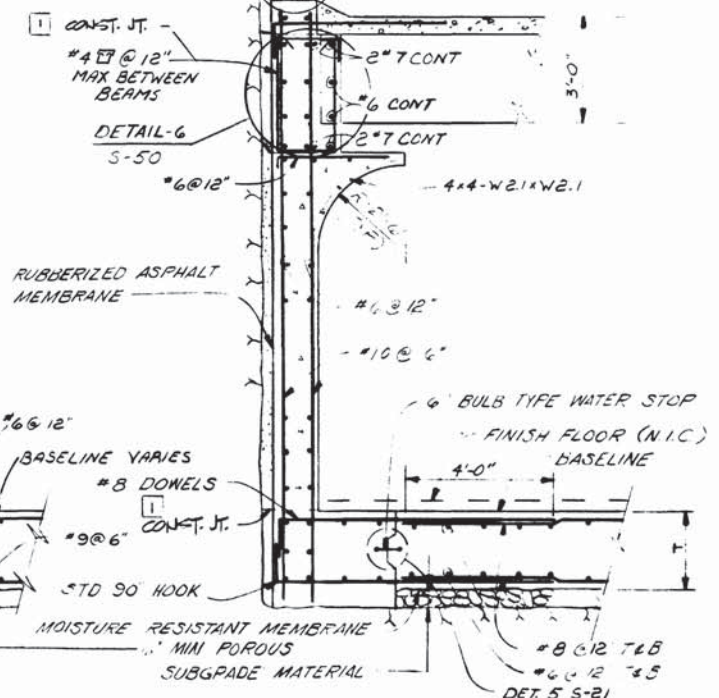
**SECTION V-V**  
SCALE: 1/8" = 1'-0"



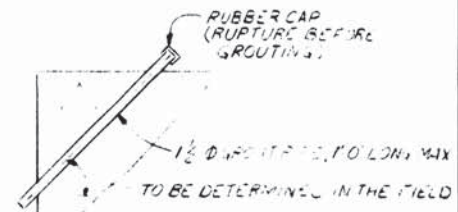
**DETAIL 3**  
S-41



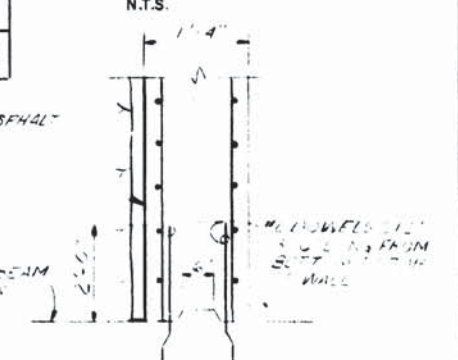
**DETAIL 5**  
S-42



**DETAIL 4**  
S-42



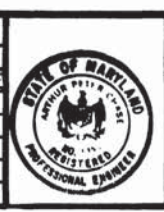
**DETAIL 6**  
S-46, S-49  
N.T.S.



**DETAIL 2**  
S-50  
N.T.S.

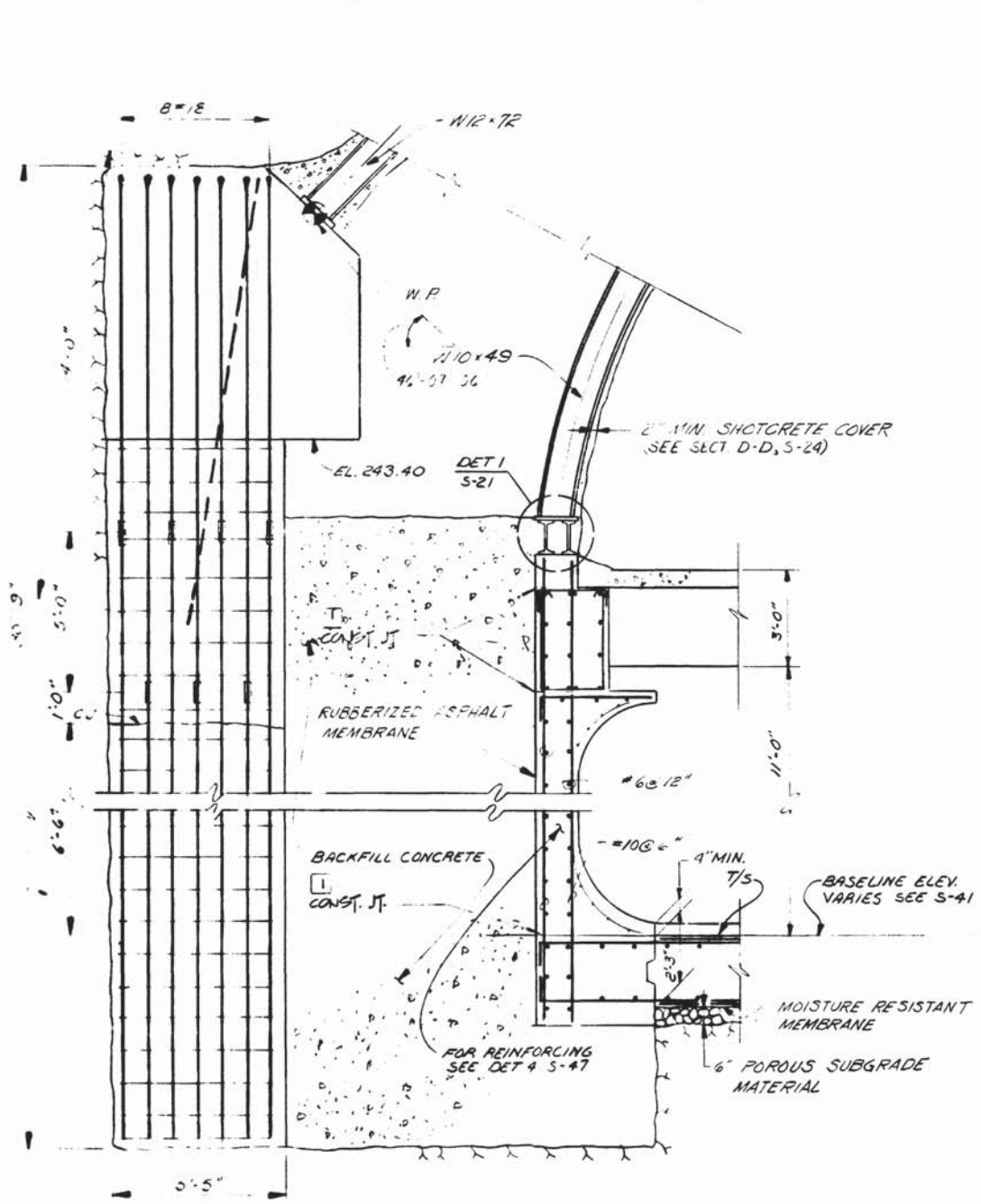
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
ASBUILT CONDITION  
RESIDENT ENGINEER

DESIGNED	R.A. BUTLER	7-12-76	DATE	NUMBER	DESCRIPTION	DATE	BY	REVISIONS
DRAWN	E.L. BURNETT	7-19-76	DATE	S-46	PLAN & COLUMN DETAILS	7/11/77	JLB	ADDED MEMBRANE & BACKFILL CONCRETE
CHECKED	T.P. SMIRNOFF	7-28-76	DATE	S-47	BONDING			CALLOUT, ADDED REF. TO DETAILS
APPROVED			DATE	S-44	ROOF SLAB DETAILS			REVISED PER FIELD ASBUILT

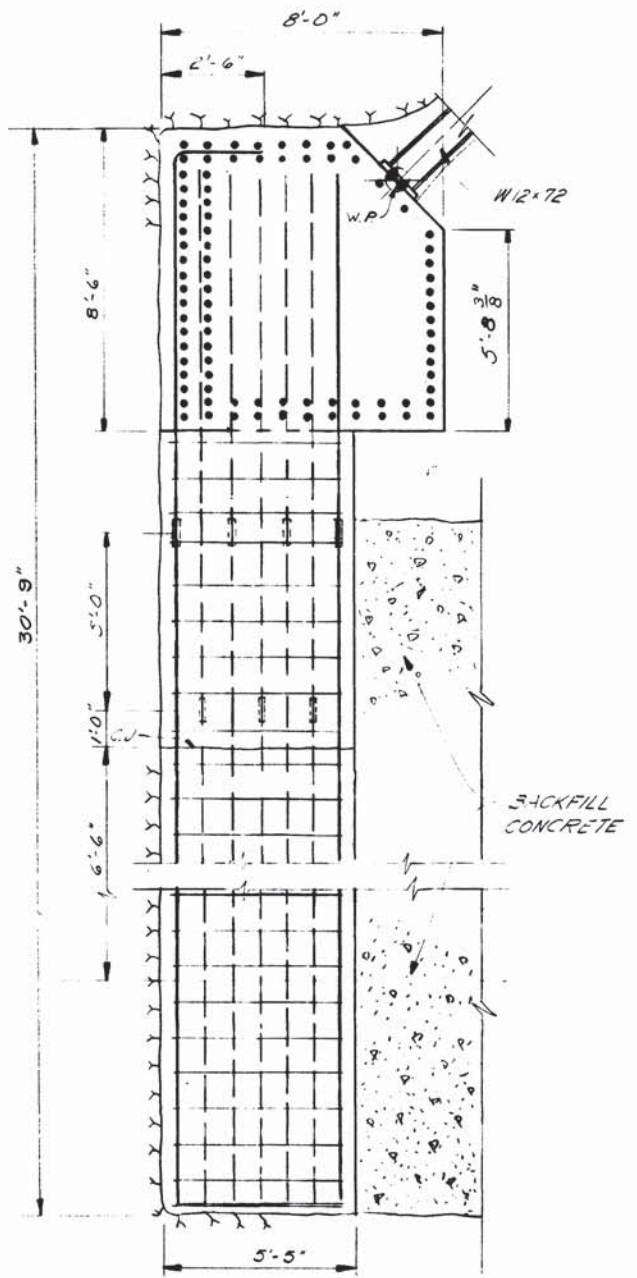


**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
MATHews • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER  
DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT  
HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

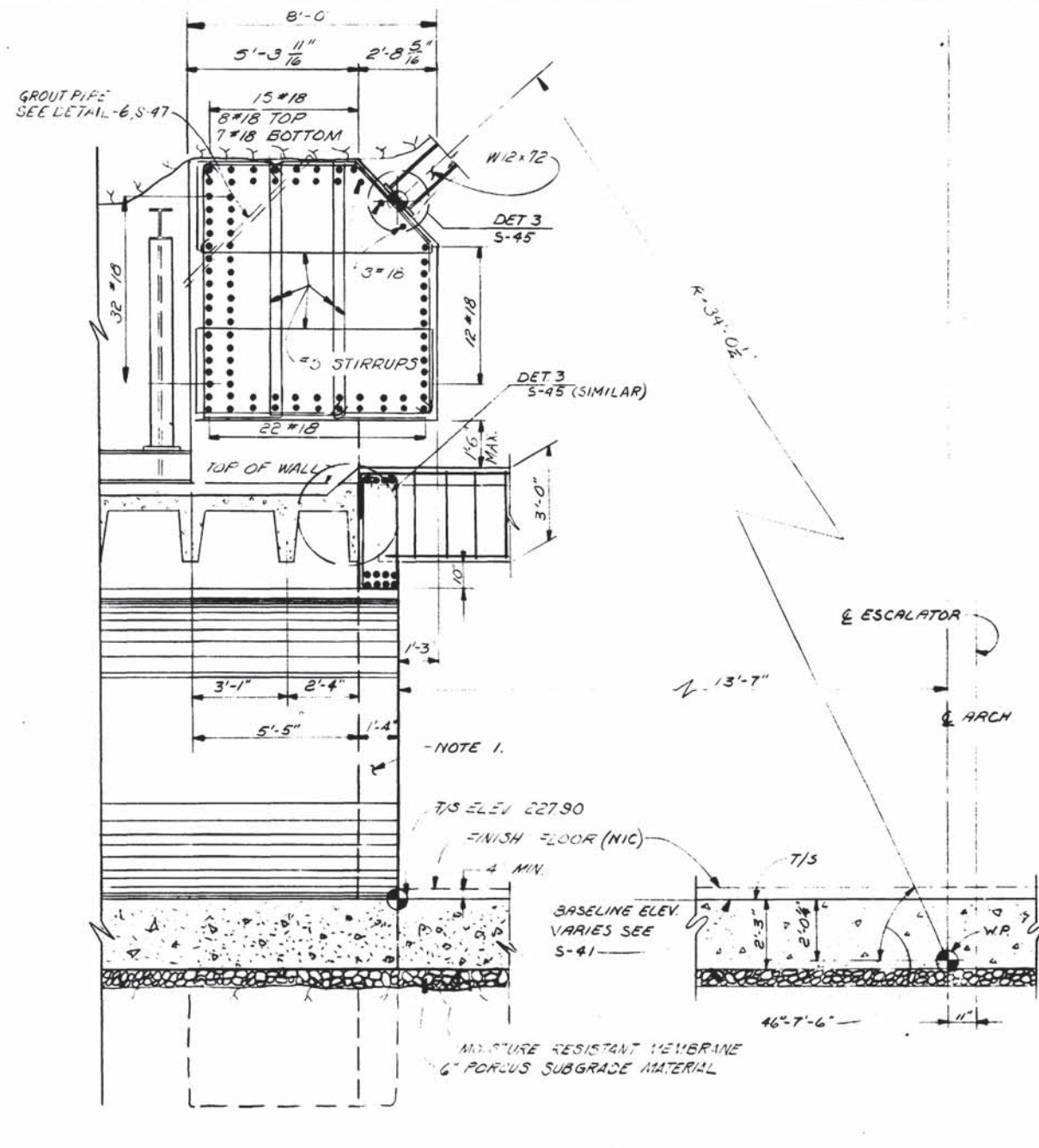
**ROCKVILLE ROUTE**  
BETHESDA STATION PASSAGEWAY  
BEAM & COLUMN SECTION  
SCALE: 1/8" = 1'-0"  
DRAWING NO. A11b-S-47  
M276-72



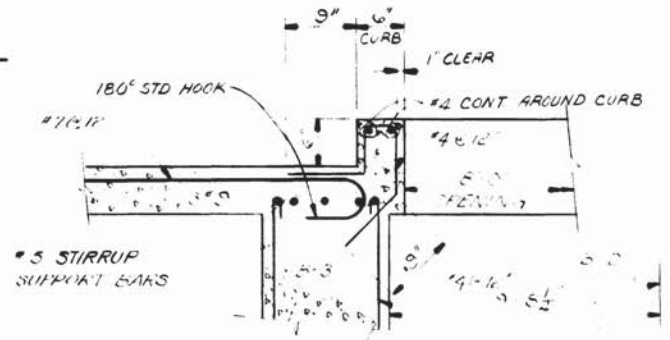
**SECTION A-A**  
S-45



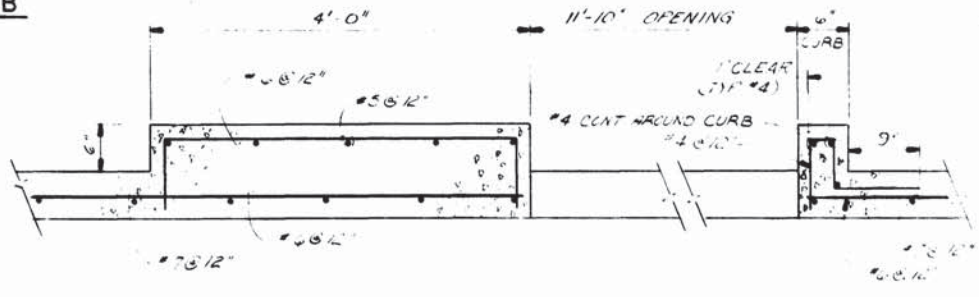
**SECTION B-B**  
S-45



**SECTION C-C**  
S-45



**SECTION BB-BB**  
S-43  
SCALE: 1" = 1'-0"



**SECTION CC-CC**  
S-43  
SCALE: 1" = 1'-0"

NOTE:  
FOR CARRIER BEAM SUPPORT  
COLUMNS SEE SECTION S-3  
S-45 AND SECTION M-A-S-47

WASHINGTON METROPOLITAN  
TRANSIT AUTHORITY  
AS BUILT CONDITION  
DATE: DEC 27 1982

DESIGNED	R.A. BUTLER	10-1-75	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	F.L. AMOS	10-2-75	DATE	1-47	REINFORCING	10-2-75	FR	REINFORCING
CHECKED	A.B. WIEBAND	10-9-75	DATE	ST-S-7	BONDING	10-9-75	FR	BONDING
APPROVED		10-9-75	DATE	A-33	DRIPSLAB TREATMENT	10-9-75	FR	DRIPSLAB TREATMENT



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SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

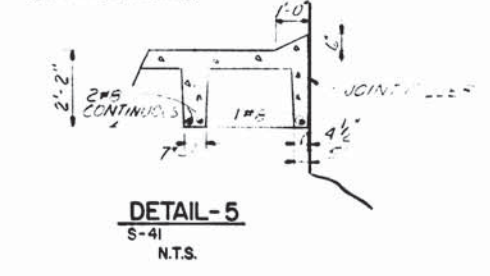
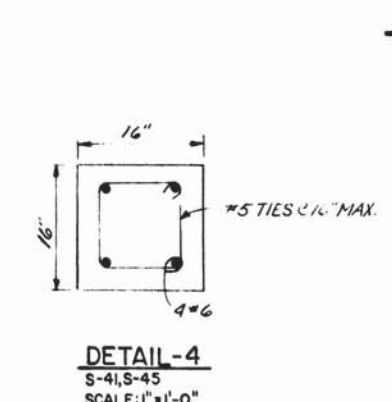
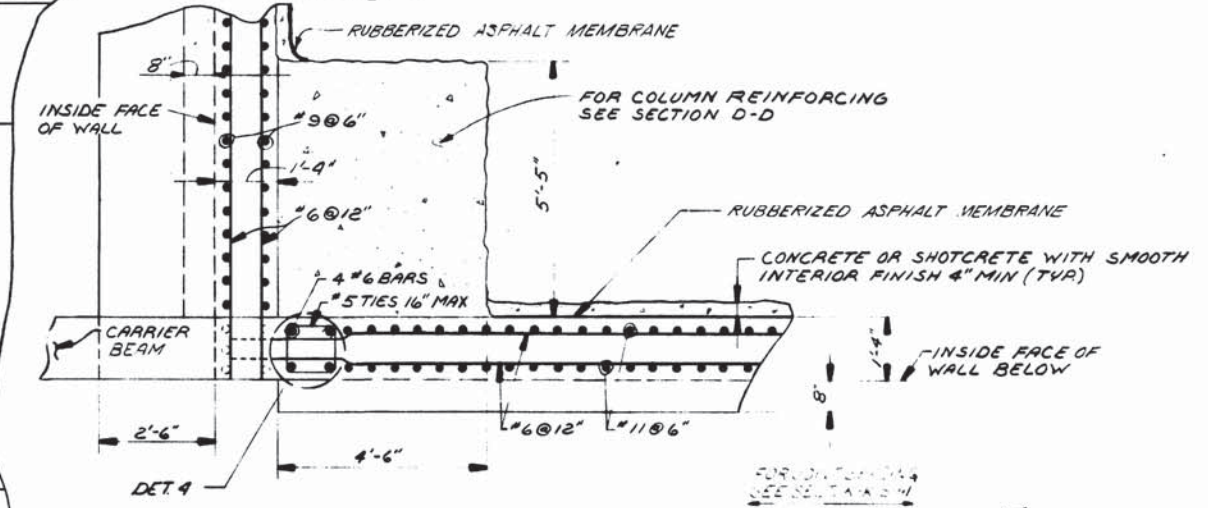
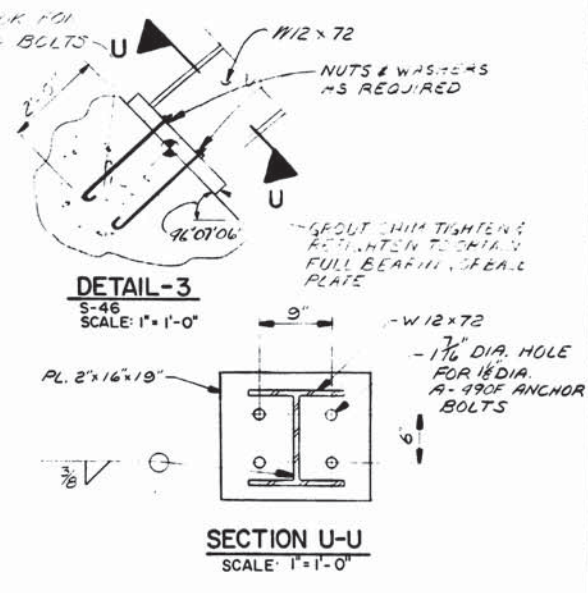
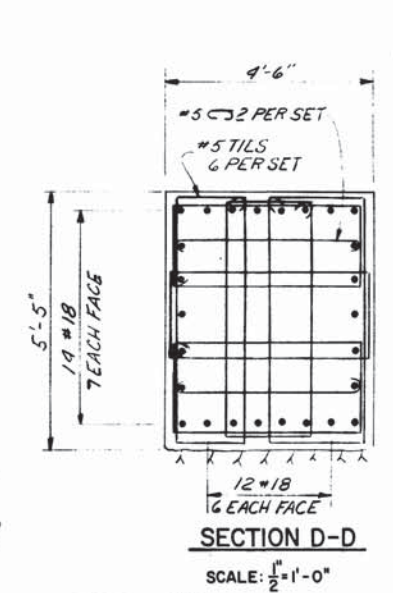
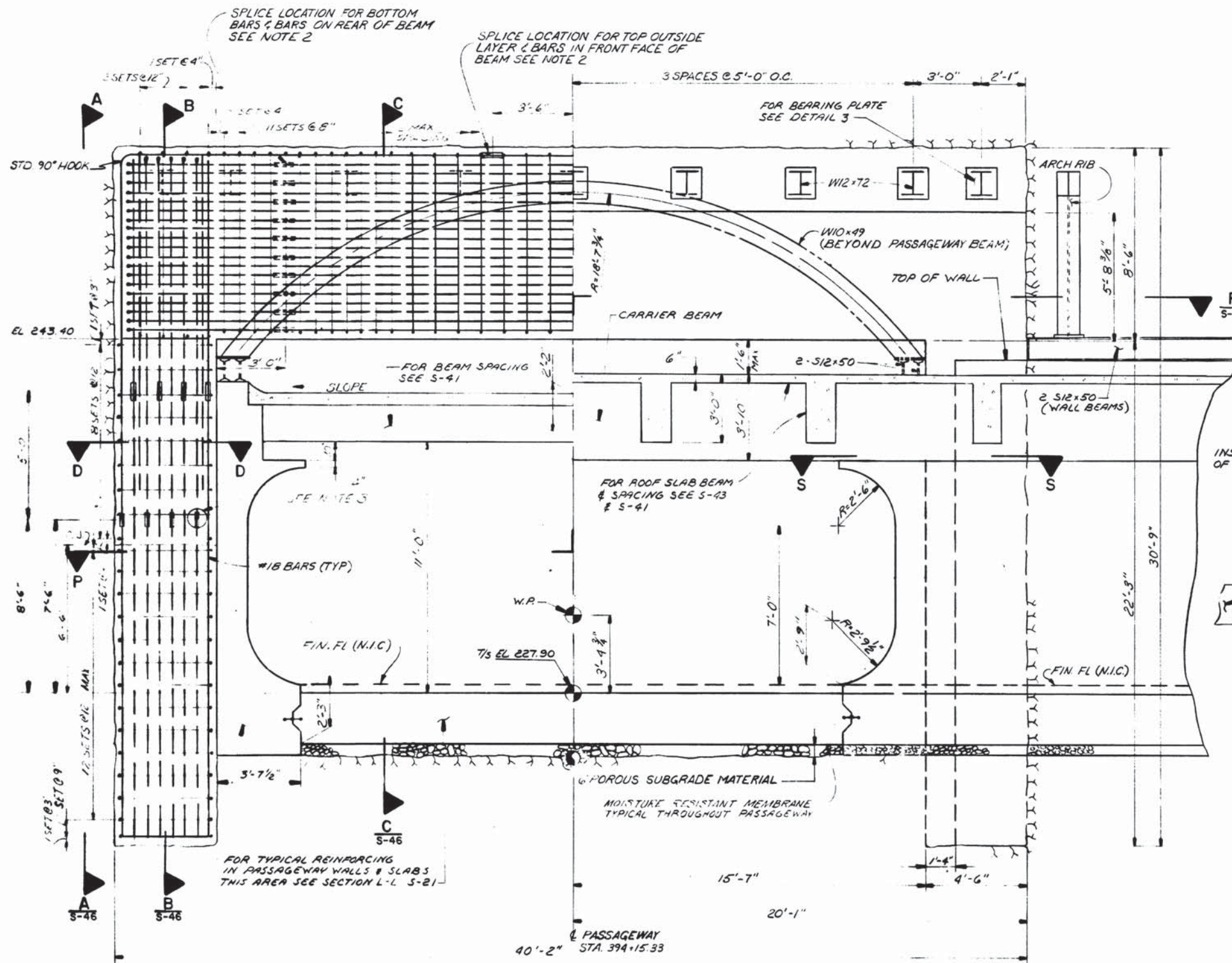
SUBMITTED: *[Signature]* DATE: 02-02-77

APPROVED: *[Signature]*

**ROCKVILLE ROUTE**  
BETHESDA STATION PASSAGEWAY  
BEAM & COLUMN SECTIONS

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

DRAWING NO. A11b-S-46 M276-71



- NOTES:
1. REINFORCING DETAILS SHOWN ARE SYMMETRICAL ABOUT THE CENTERLINE OF THE PASSAGEWAY.
  2. REBAR SPLICES SHOWN FOR FRAME ARE TO BE ALTERNATED EACH SIDE OF THE PASSAGEWAY.
  3. REBAR SPLICES FOR NO. 18 BARS TO BE CALDWELL OR THERMIT PROCESS SPLICES.

M  
R. K. K...  
K...

DESIGNED	R.A. BUTLER	11-10-78	DATE	NUMBER	DESCRIPTION	DATE	BY	REVISIONS	DESCRIPTION
DRAWN	J.A.D. KEELEY	11-19-79	DATE	S-46	COLLAR DETAILS				
CHECKED	A.B. WIEGAND	11-25-79	DATE	S-43	ROOF PLAN & DETAILS				
APPROVED			DATE	S-41	PASSAGEWAY SECTIONS				
			DATE	S-21	PASSAGEWAY REINF.				
			DATE	ST-S-7	BONDING				



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
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SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

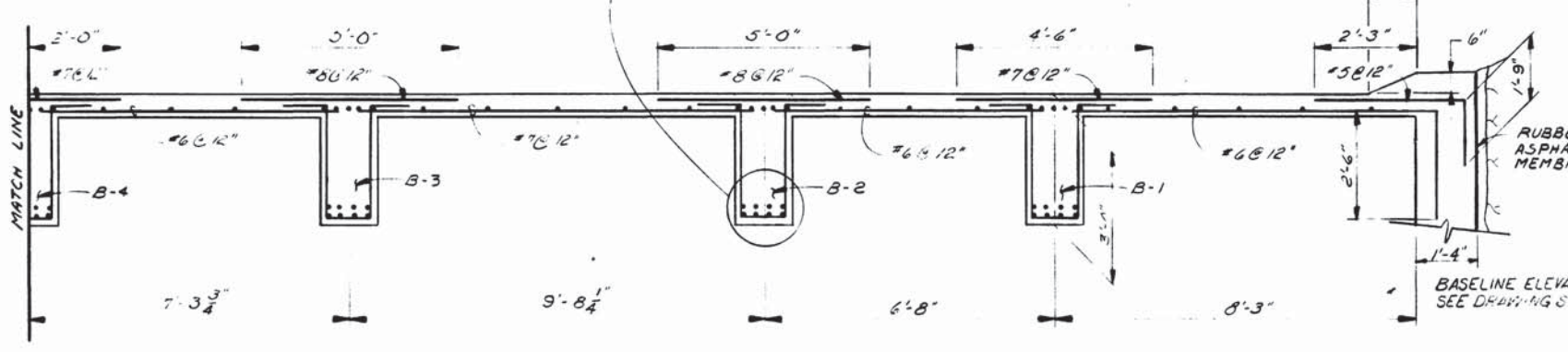
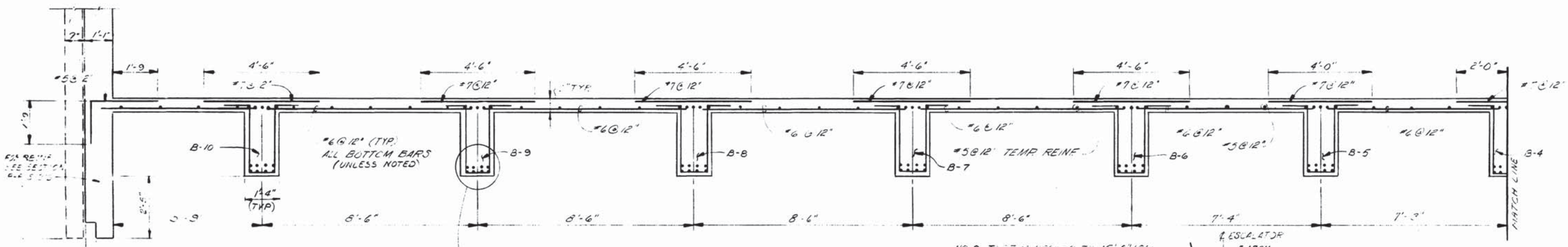
SUBMITTED [Signature] DATE 12-2-79 APPROVED [Signature]

**ROCKVILLE ROUTE**  
BETHESDA STATION PASSAGEWAY  
BEAM & COLUMNS

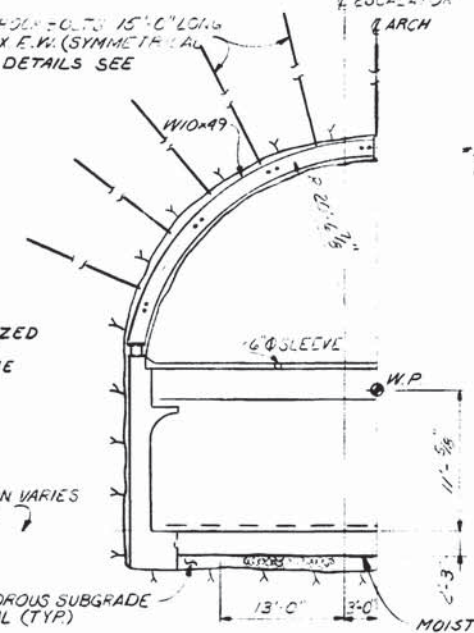
SCALE: AS NOTED

DRAWING NO. A11b-S-45

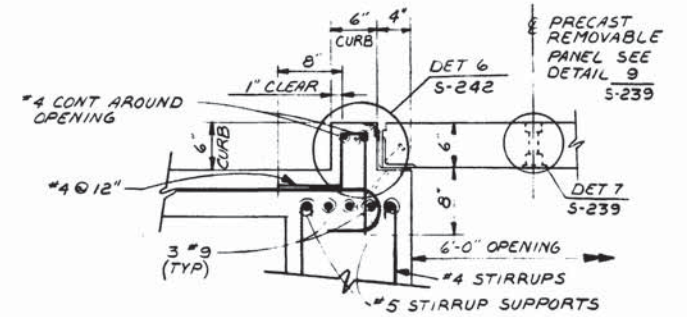
M276-70



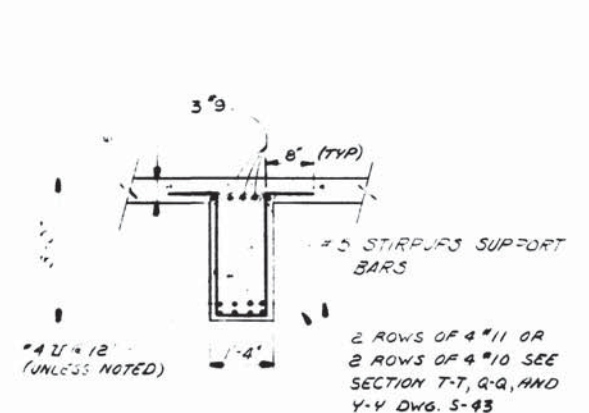
SECTION YY-YY  
S-43



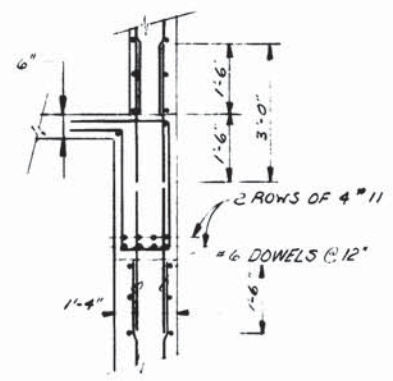
SECTION X-X  
S-43



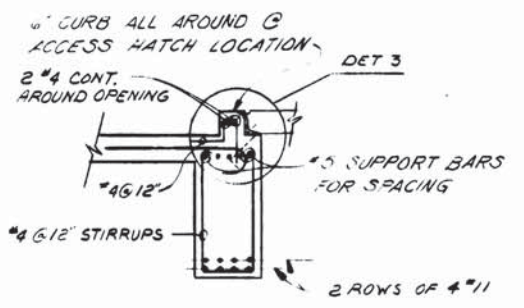
DETAIL 3  
SCALE: 1" = 1'-0"



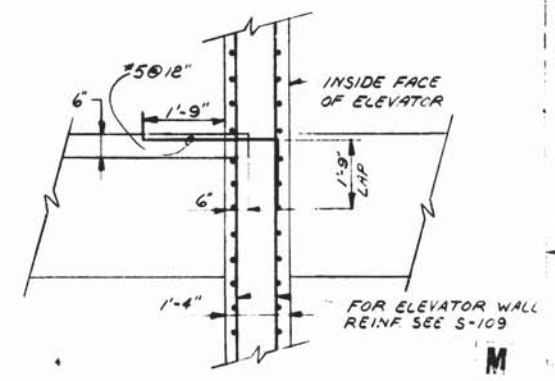
SECTION A-A  
S-43



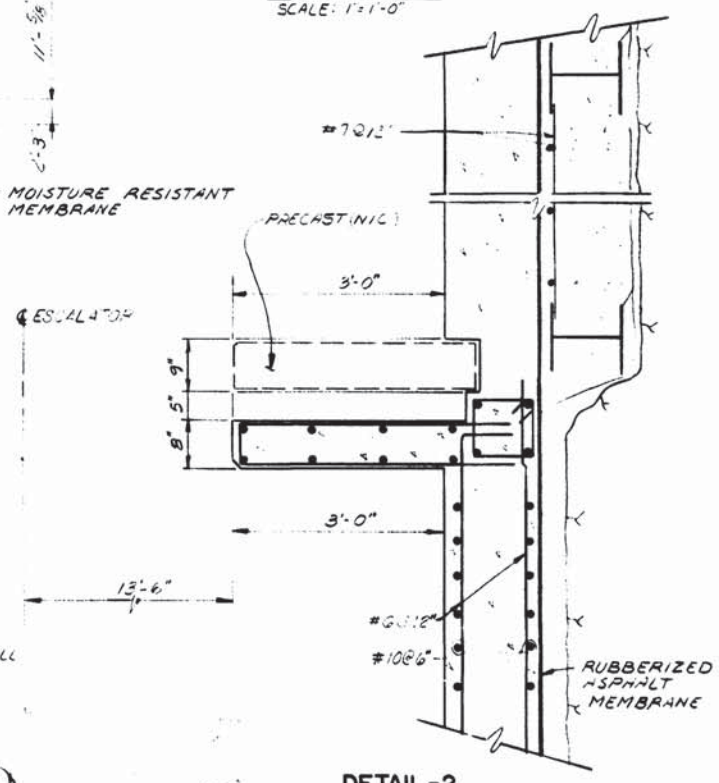
SECTION B-B  
S-43



SECTION C-C  
S-43



SECTION V-V  
S-43



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

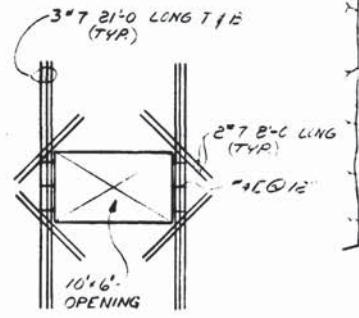
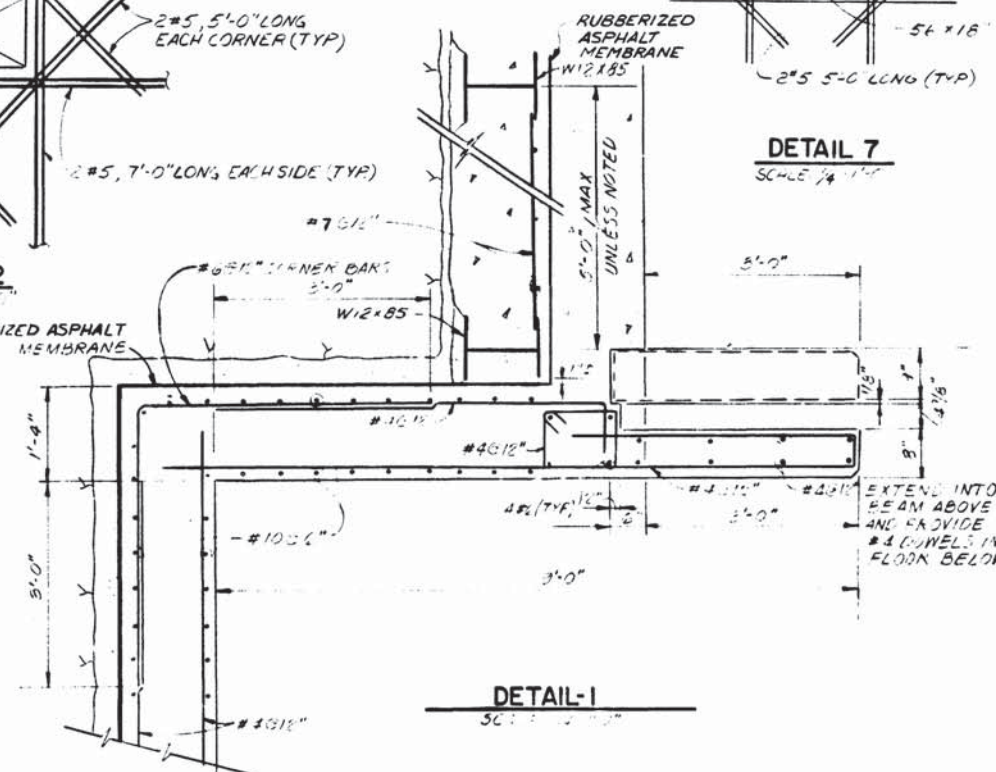
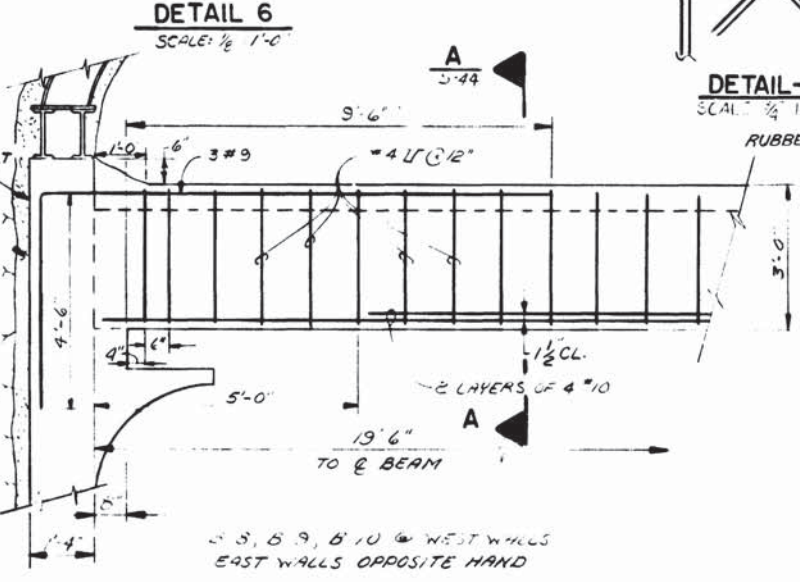
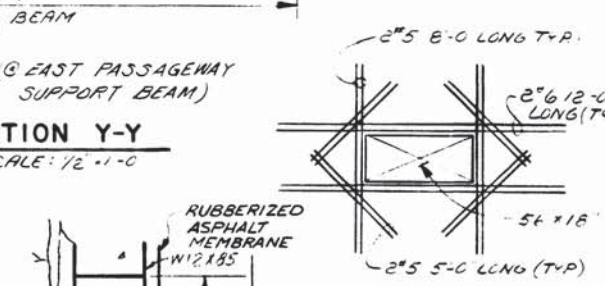
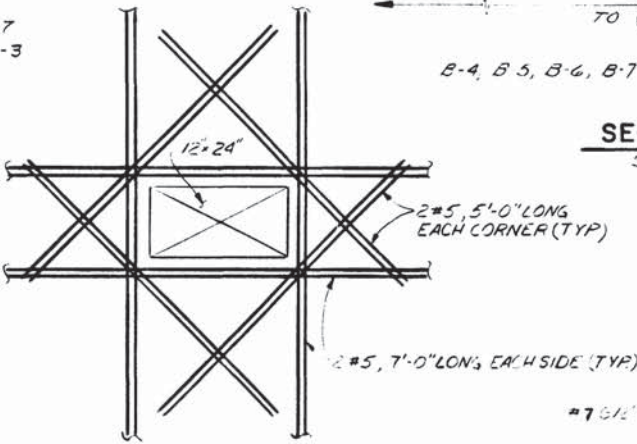
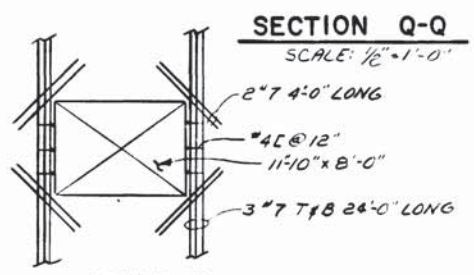
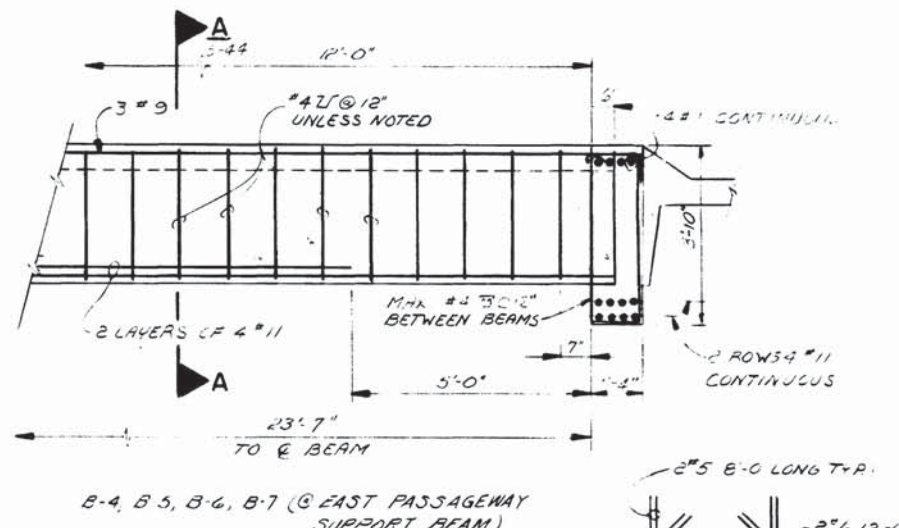
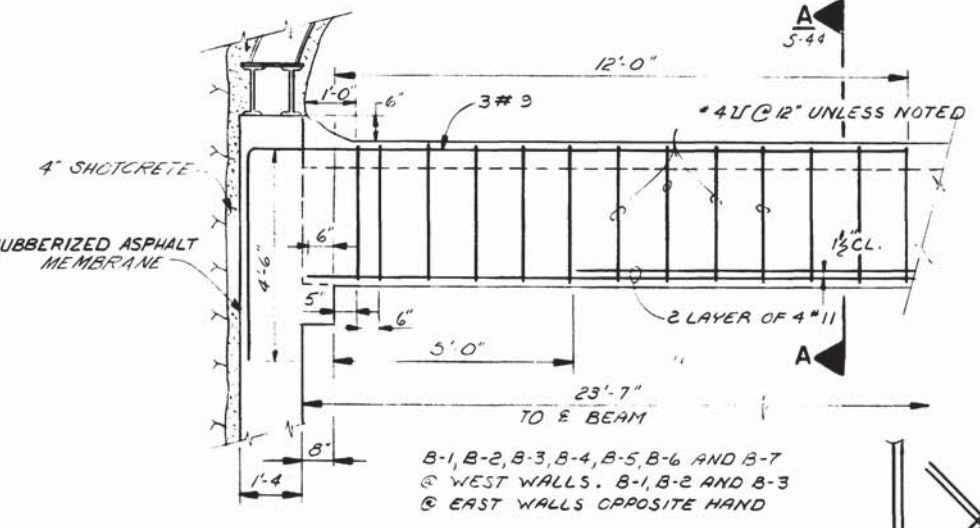
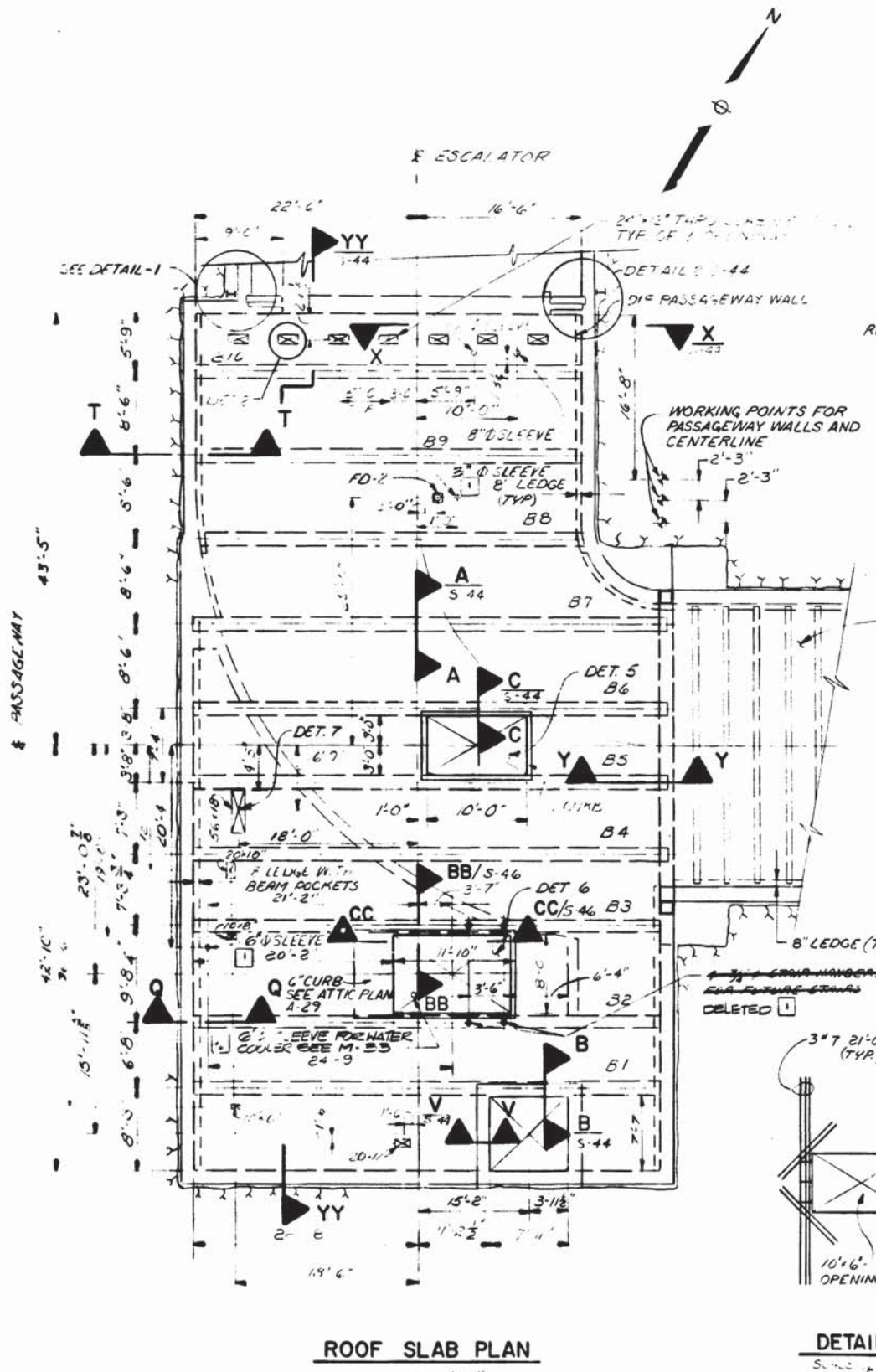
DESIGNED	REFERENCE DRAWINGS		REVISIONS		STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	ROCKVILLE ROUTE	
	NUMBER	DESCRIPTION	DATE	BY			DESCRIPTION	BETHESDA STATION PASSAGEWAY ROOF SLAB DETAILS
R.A. BUTLER	S-43	BETH. STA. PASS. ROOF SLAB				MATHews • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER	DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT	
E.L. BURNETT	SI-S-7	BONDING					HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT	
A.B. WIEGAND	5-129	SURFACE ELEVATOR & DETAILS						
DATE	DATE		DATE				SCALE: 1" = 1'-0"	DRAWING NO. A11b-S-44



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
 MATHews • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER  
 DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT  
 HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT  
 SUBMITTED: *R.P. Chase* DATE: 05-13-77 APPROVED: *Robert [Signature]*

ROCKVILLE ROUTE  
 BETHESDA STATION PASSAGEWAY  
 ROOF SLAB DETAILS  
 SCALE: 1" = 1'-0"  
 DRAWING NO. A11b-S-44 M276-69





NOTES

1. FOR JOINT DETAILS SEE DWG S-41 FOR TYPICAL REINFORCEMENT - SEE DETAIL S-50

2. FOR STAIRS CHASING BETWEEN BEAMS IN WALLS SEE DETAIL S-50

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RESIDENT ENGINEER

DESIGNED	R.A. BUTLER	7-19-76	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	E.L. BURNETT	7-21-76	DATE	A-29	PASSAGEWAY AND ANCILLARY PLAN	7-21-76	JN	1 REV PER FIELDWORK AS BUILD
CHECKED	T.P. SMIRNOFF	7-30-76	DATE	M-53	Mechanical Layout			2 REV PER FIELDWORK AS BUILD
APPROVED			DATE	A-33	DRIP SLAB TREATMENT			
			DATE	E-10	ELECTRICAL LAYOUT			
			DATE	SI-S-7	BONDING			
			DATE	S-44	ROOF-SLAB DETAILS			



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

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ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 07-12-77

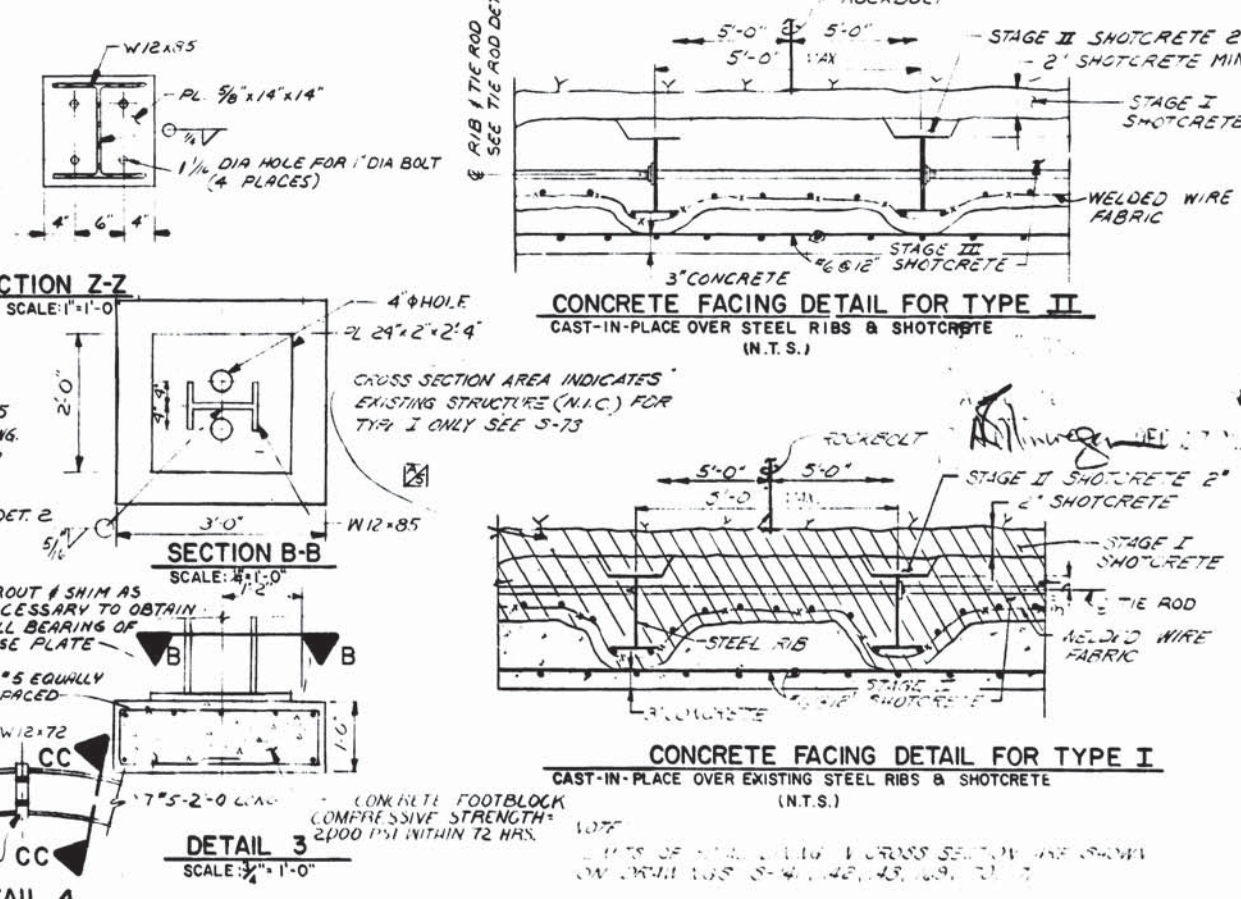
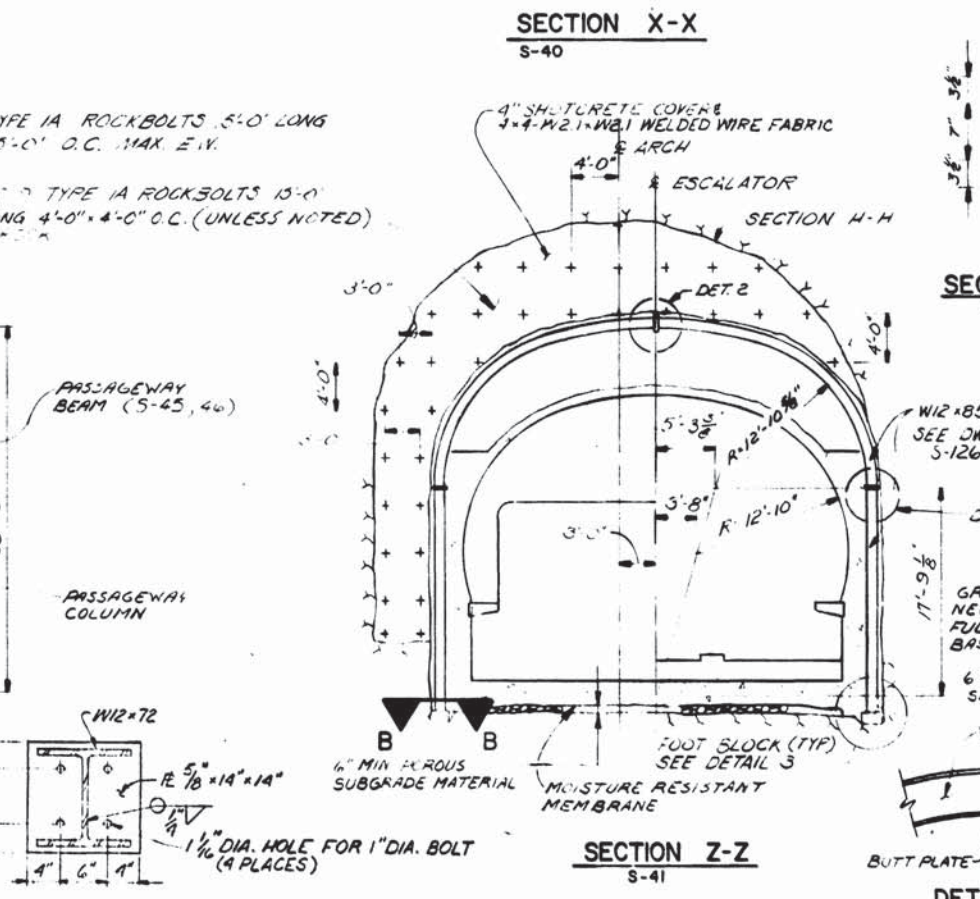
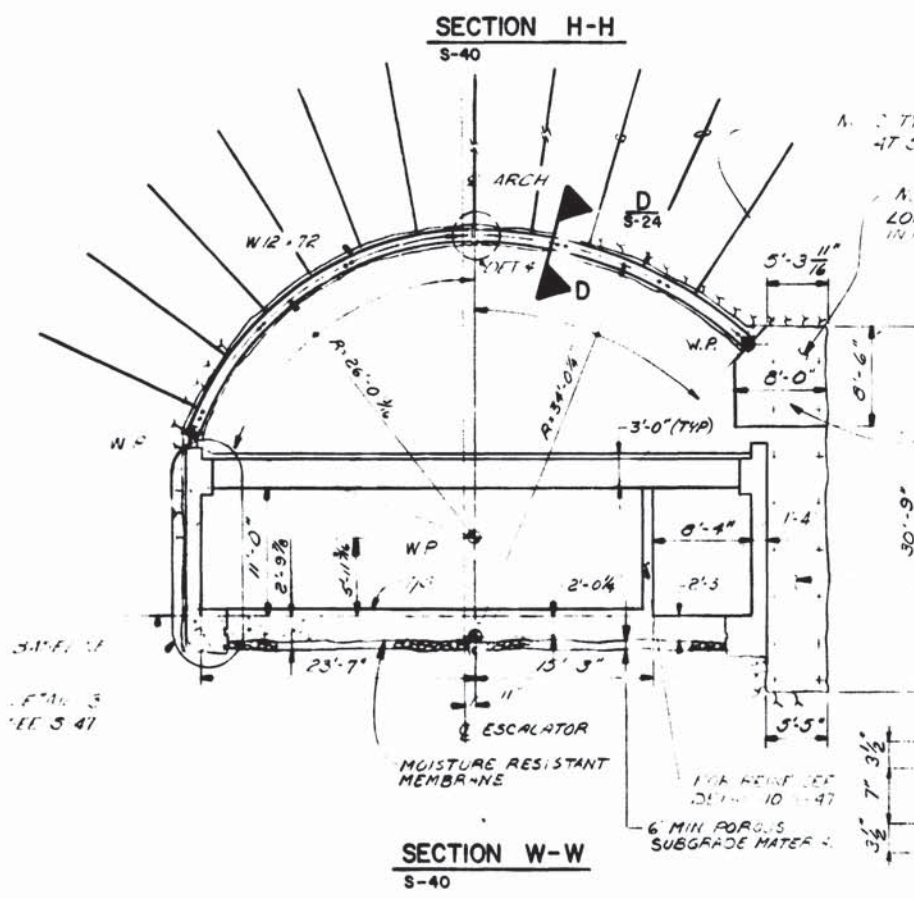
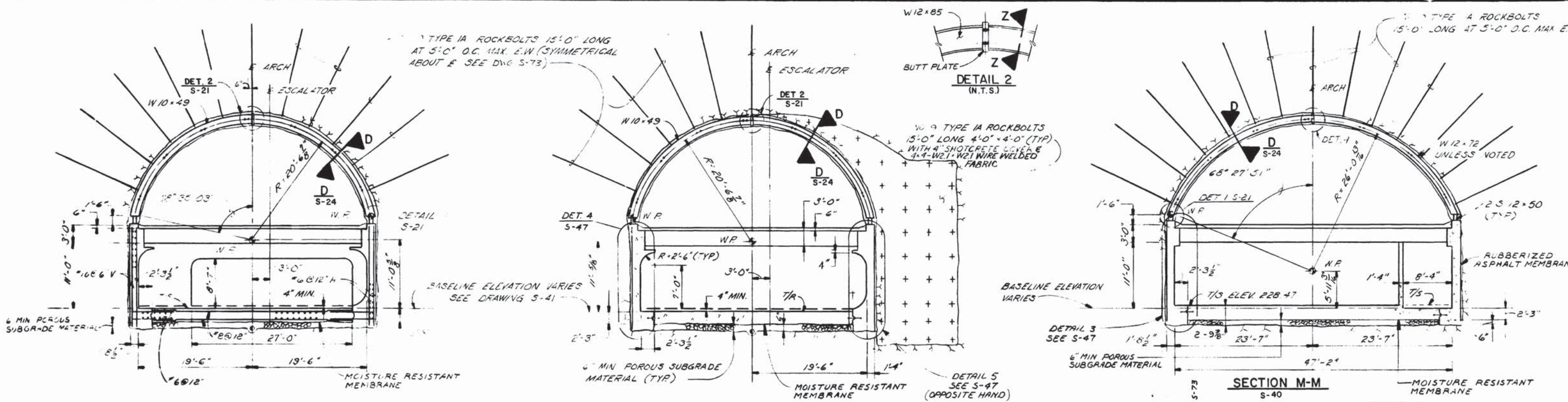
APPROVED *[Signature]*

**ROCKVILLE ROUTE**  
BETHESDA STATION PASSAGEWAY  
ROOF SLAB PLAN & DETAILS

SCALE AS NOTED

DRAWING NO. A11b-S-43

M276-68



ST-S-7 BONDING		REFERENCE DRAWINGS		REVISIONS	
DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY
R.A. BUTLER	12-2-73	S-21	PASSAGEWAY ROCK SUPPORT	11/28/77	MFC
E.L. BURBETT	12-8-73	S-24	SUPPORT OF EXCAVATED STATIONS		
A.B. WIEGAND	12-12-73	S-41	PASSAGEWAY SECTIONS		
		S-45	PASSAGEWAY BEAM & COLUMN		
		S-46	PASSAGEWAY BEAM & COLUMN SECTIONS		
		S-47	PASSAGEWAY BEAM & COLUMN SECTIONS		



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GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

APPROVED: *Robert J. Weese*

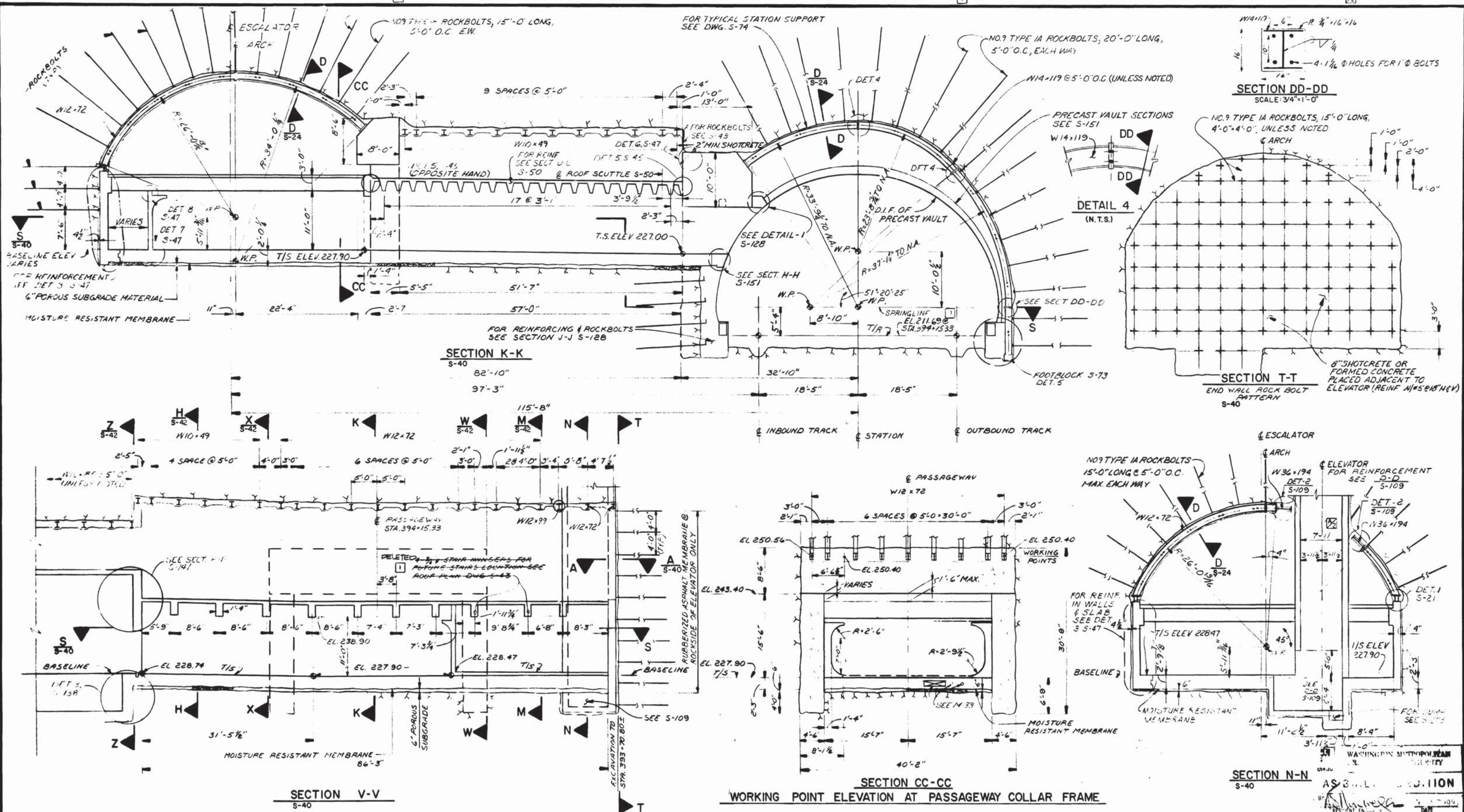
**ROCKVILLE ROUTE  
BETHESDA STATION PASSAGEWAY  
SECTIONS**

SCALE: 1" = 1'-0" 10 2 4 6 8 10

DRAWING NO. **A11b-S-42**

DATE: 12-2-73

PROJECT NO. **M276-67**



DESIGNED R.A. BUTLER  
 DRAWN E.L. BURNETT  
 CHECKED A.B. WIEGAND  
 APPROVED [Signature]

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	DESCRIPTION
S-126	ESCALATOR SECTIONS	7/11/77	REVISED DIMENSIONS
S-137	ESCALATOR PLAN	11/15/77	REVISED PER FIELD AND ASBUILT
A-29	ARCHITECTURAL PLAN		
M-33	MECHANICAL LAYOUT		
E-10	ELECTRICAL LAYOUT		
S-141	BETH. STA. SERVICE AREA SECTIONS		



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

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 SECTION DESIGNER

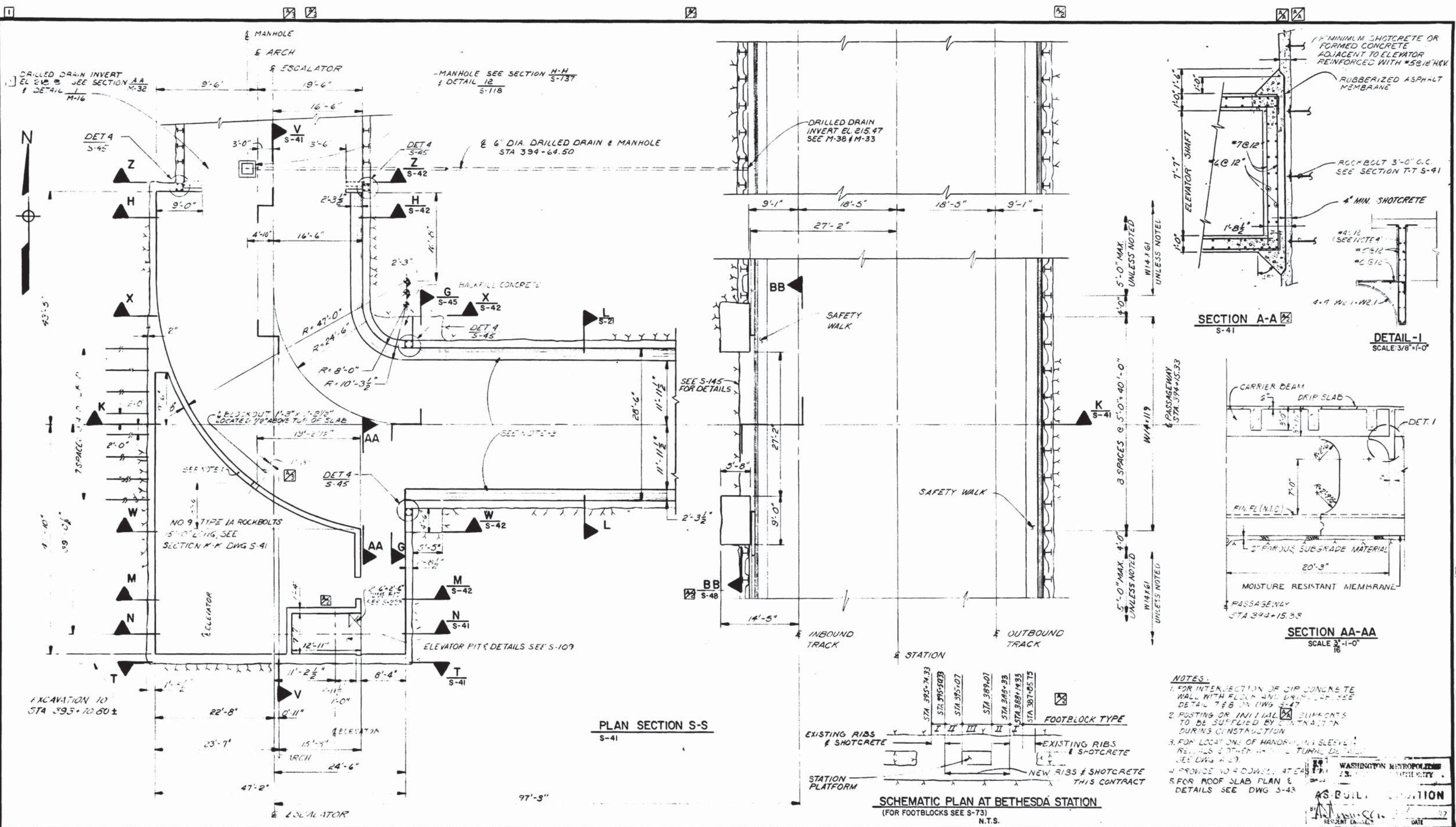
DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED [Signature] DATE 08-12-77 APPROVED [Signature]

**ROCKVILLE ROUTE**  
 BETHESDA STATION PASSAGEWAY  
 SECTIONS

SCALE: 1" = 1'-0" 10 2 4 6 8 10  
 DRAWING NO. A11b-S-41 M276-66



DESIGNED	R.A. BUTLER	8-9-76	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	J.L. BISHOP	8-23-76	DATE	S-41	BETHESDA STA. PASSAGWAY TO STATION	7/11/77	MFC	REVISED ELEVATOR PIT & SCHEMATIC.
CHECKED	A.B. WEGAND	8-26-76	DATE	S-42	BETHESDA STA. PASSAGWAY TO ESCALATOR			ROTATED SECTION A-A
APPROVED			DATE	S-43	BETHESDA STA. PASSAGWAY & MECH. RM. SECT.	10/11/77	FLA	ADDED BLOCKOUT
			DATE	A-29	BETHESDA STA. PASSAGWAY ANCILLARY PLAN	1/31/78	JL	REV NOTE 2
			DATE	M-33	BETHESDA STA. ENT. ANCILLARY PLAN & SECT.			
			DATE	T-S-7	BUILDING			



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DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *APC* DATE 2-12-77 APPROVED *K...*

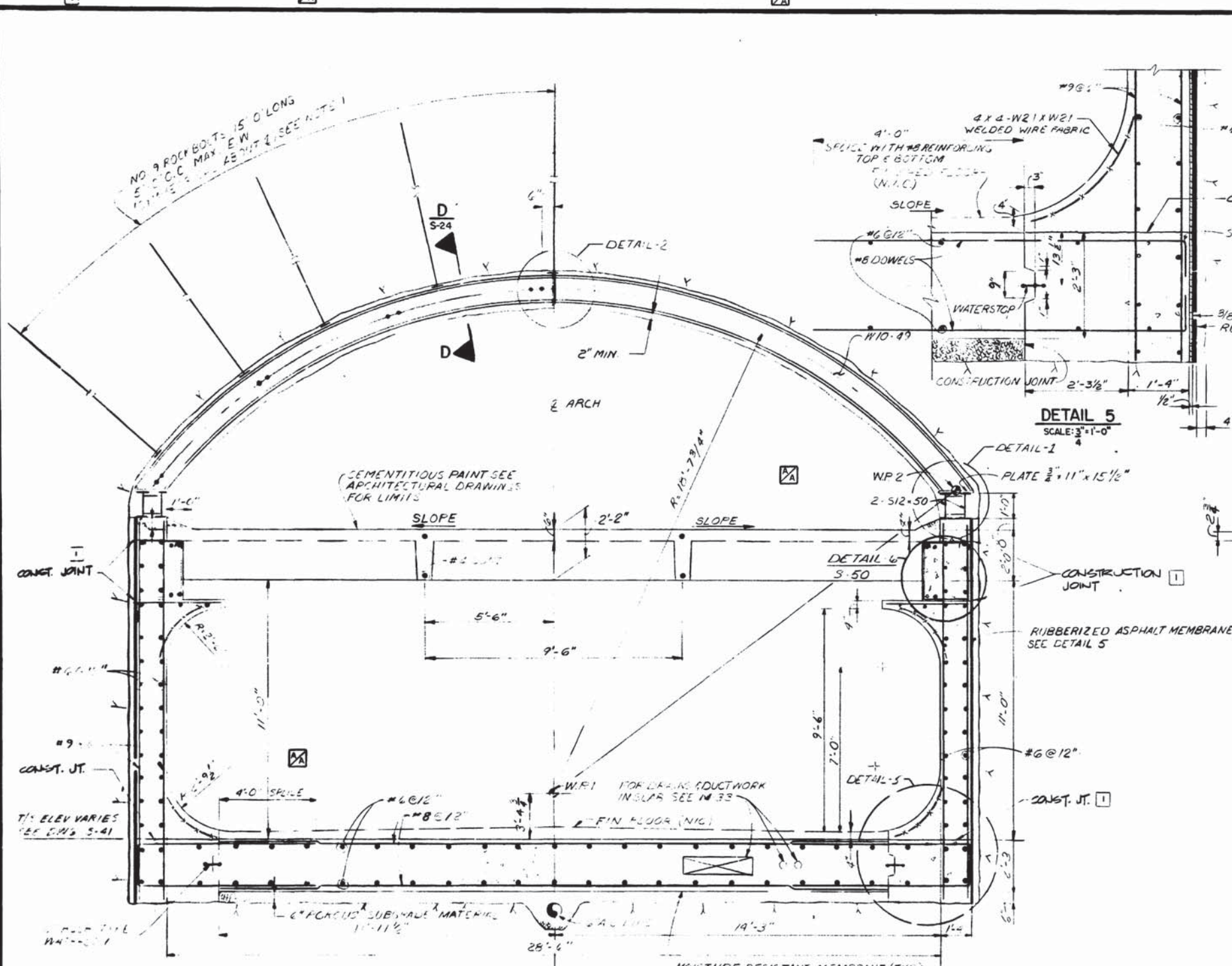
**ROCKVILLE ROUTE**  
BETHESDA STATION PASSAGWAY  
PLAN

SCALE 1" = 1'-0" 10 2 4 6 8 10

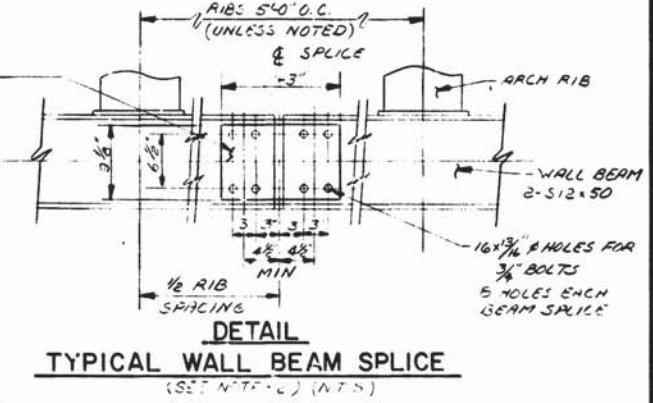
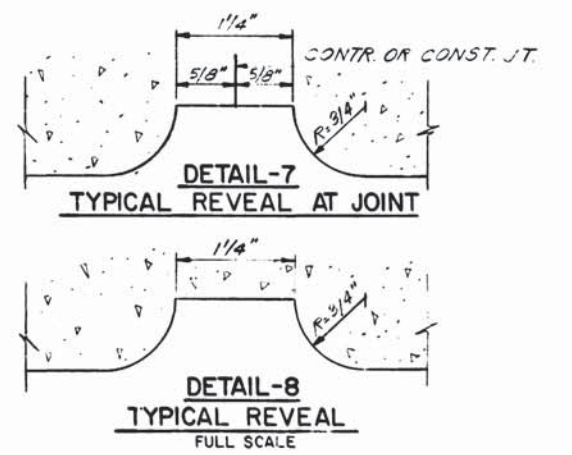
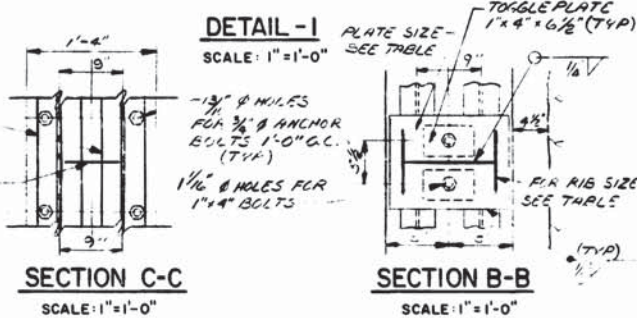
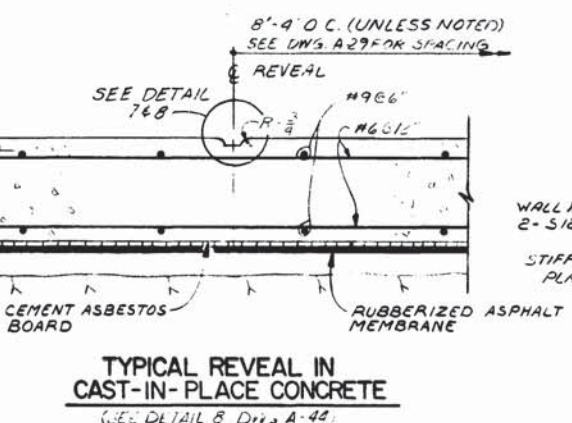
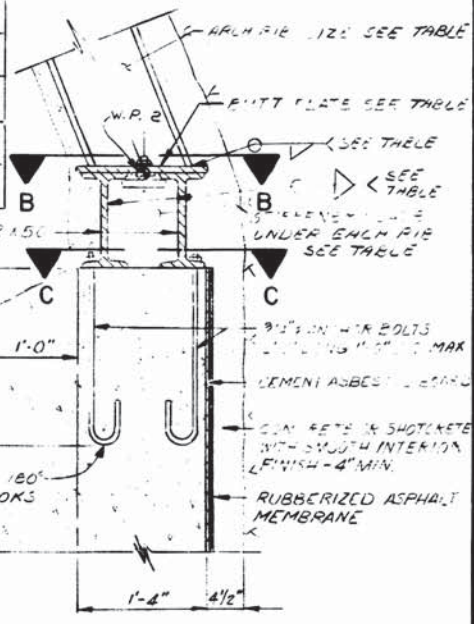
DRAWING NO. A11b-S-40 M276-65

- NOTES:**
- FOR INTERSECTION OF CIP CONCRETE WALL WITH FLOOR AND DRIP SLAB, SEE DETAIL 7 & 8 ON DWG S-47
  - POSTING OR INITIAL SUPPORTS TO BE SUPPLIED BY CONTRACTOR DURING CONSTRUCTION
  - FOR LOCATIONS OF HANDHOLES SLEEVES, REELS & OTHER HANDHOLES, SEE DWG S-49
  - PROVIDE NO. 4 DOWNES AT EACH
  - FOR ROOF SLAB PLAN & DETAILS SEE DWG S-43

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
AS BUILT  
DATE



SECTION NO.	SECTION	ARCH RIB SIZE	BUTT PLATE SIZE	BUTT WELD	STIFFENER SIZE	STIFF WELD
S-42	H-H, X X	W10 X 49	3/4" x 11" x 15 1/2"	1/4"	R 1/2"	1/4"
S-41	K-K	W12 X 72	3/4" x 16" x 14"	3/8"	R 1/2"	1/4"
S-42	M-M, W-W	W12 X 72 W12 X 99	3/4" x 16" x 10"	3/8"	R 1 1/2"	1/4"



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ASBULL CONDITION

A. M. Wilson

DATE

DESIGNED		REFERENCE DRAWINGS		REVISIONS	
R.A. BUTLER	9-1-75	S-40, 41	PASSAGEWAY PLAN & SECTIONS	1/31/78	DELETED POSTING
J.L. BISHOP	9-4-75	1-29	PASSAGEWAY-ANCILLARY PLAN	7/20/82	REVISED PER FIELD CONDITIONS
T.P. SMIRHOFF	9-15-75	M-33	ENTRANCE PLAN & SECTION		
		S-24	SUPPORT OF EXCAVATED STA.		
		A-28	CEMENTITIOUS POINT		
		S-50	ENT. BEAM & COLLAR DETAILS		



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SECTION DESIGNER

DE LEUW, CATHY & COMPANY  
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HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

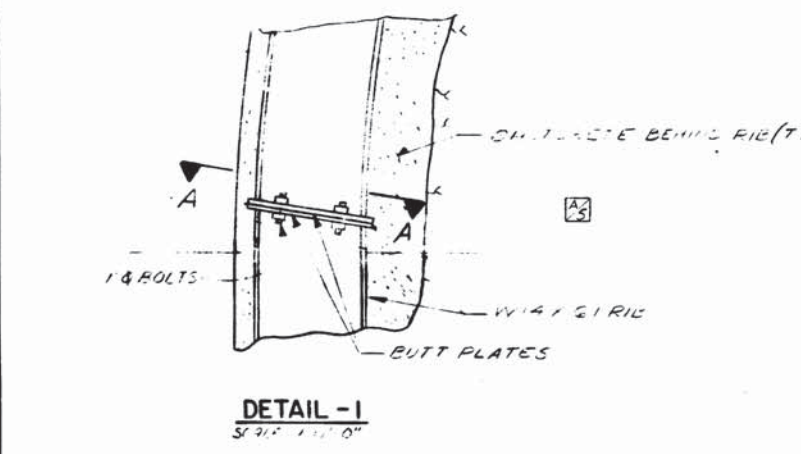
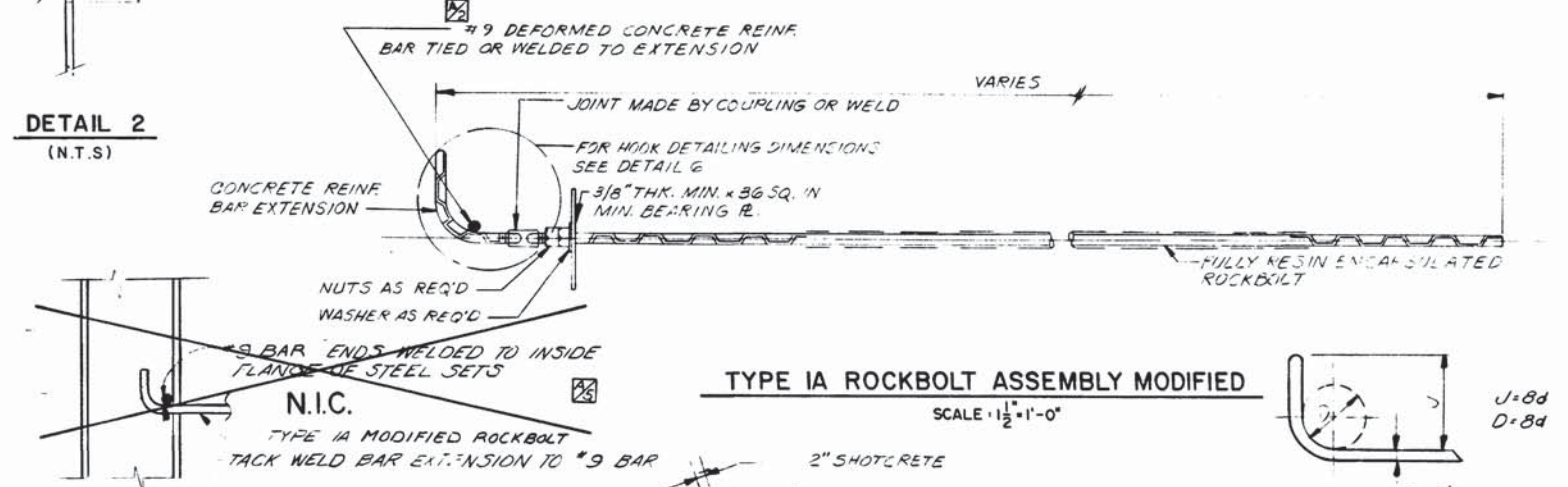
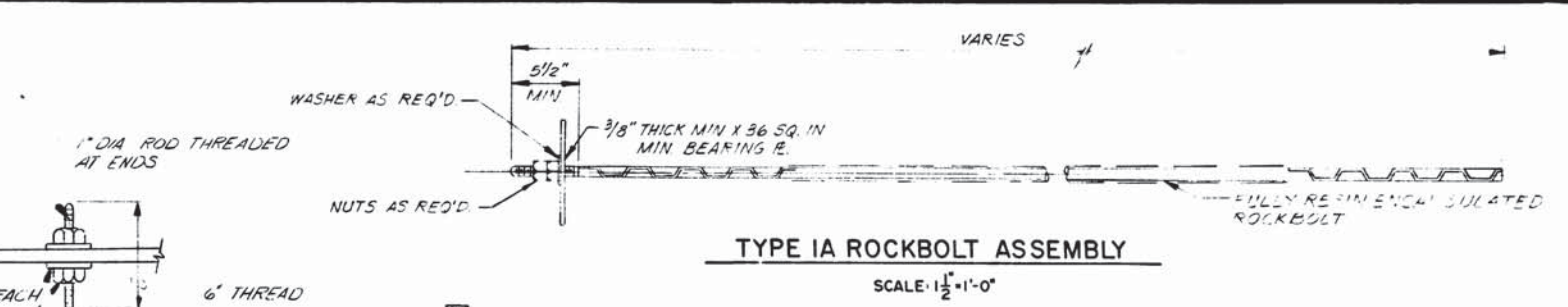
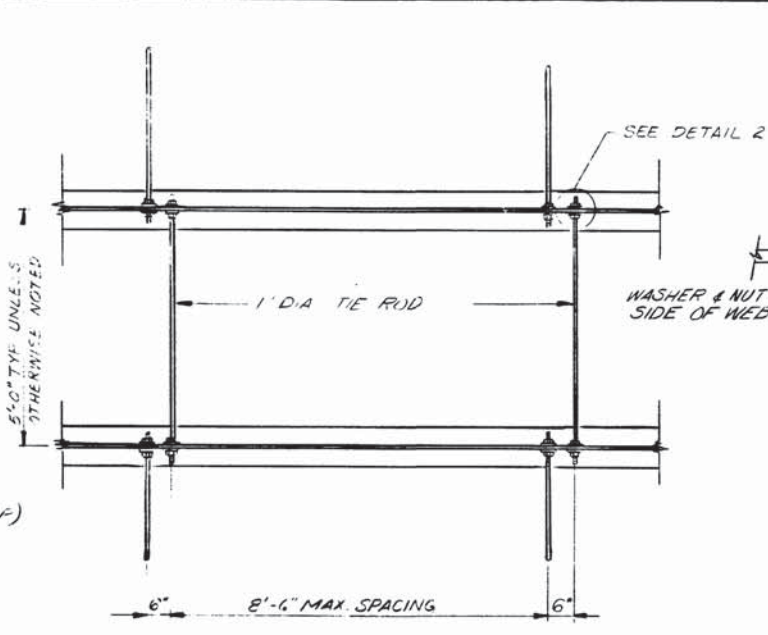
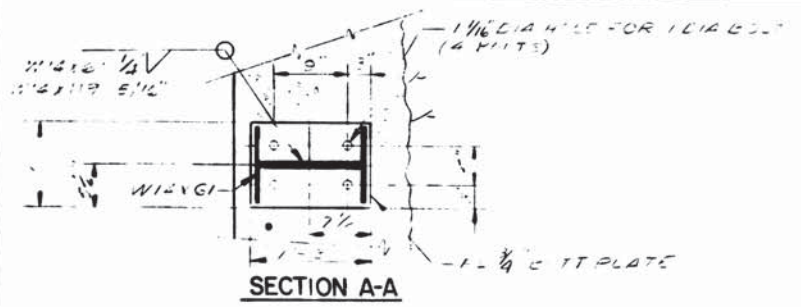
SUBMITTED [Signature] DATE 08-07-77

APPROVED [Signature]

ROCKVILLE ROUTE  
BETHESDA STATION  
PASSAGEWAY ROCK SUPPORT

SCALE 3/4" = 1'-0" AND AS NOTED

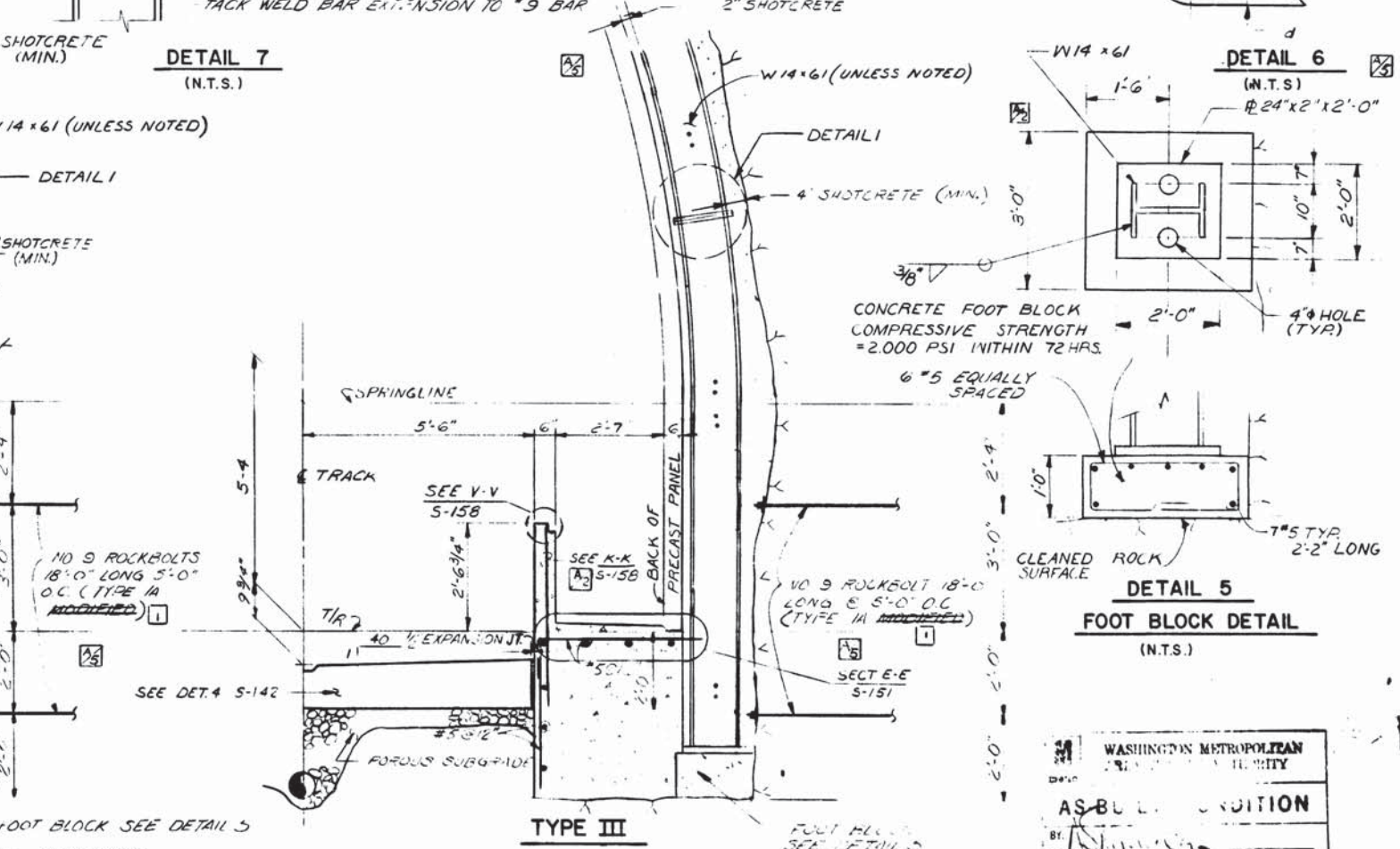
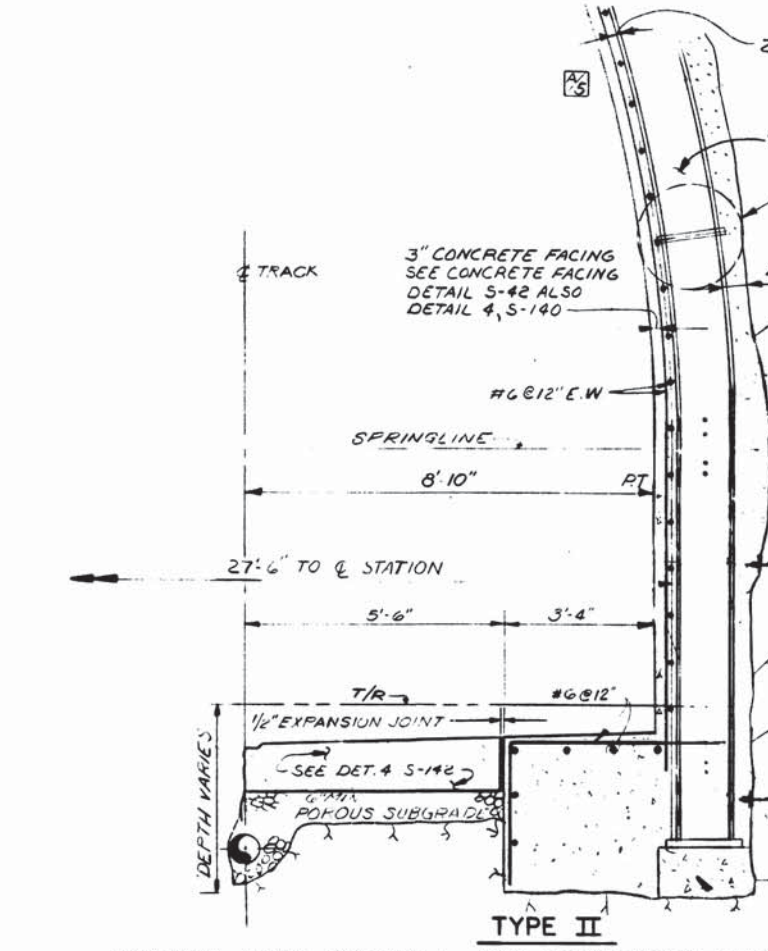
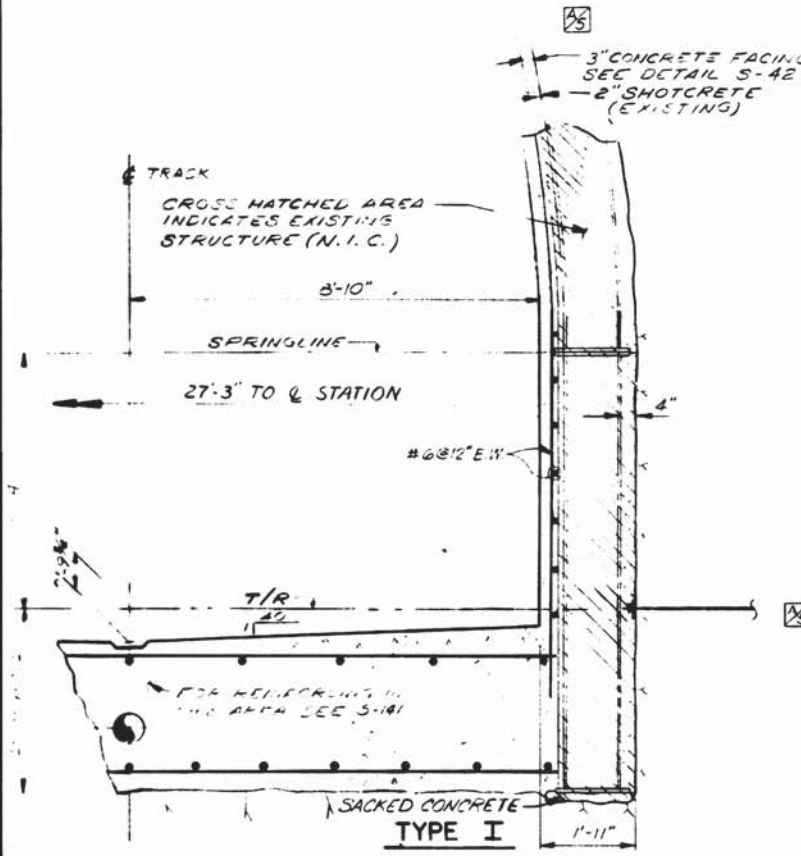
DRAWING NO. A11b-S-21 M276-64



TYPICAL TIE ROD DETAIL  
(APPLICABLE TO ALL ARCH SUPPORT SYSTEMS IN THIS CONTRACT)

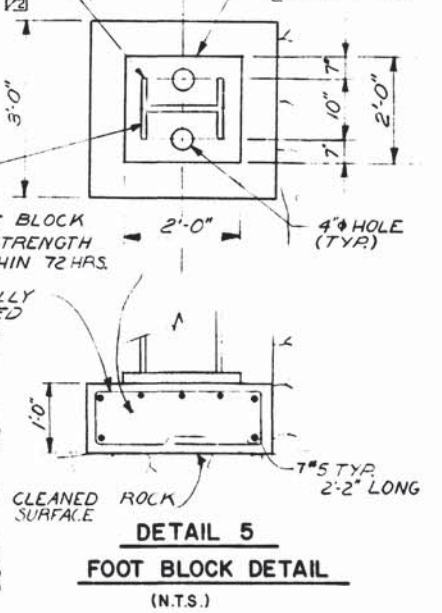
DETAIL 2  
(N.T.S.)

TYPE IA ROCKBOLT ASSEMBLY MODIFIED  
SCALE: 1/2" = 1'-0"



STATION AREA SIDEWALL AND FOOTBLOCK CROSS SECTIONS

DETAIL 6  
(N.T.S.)



DETAIL 5  
FOOT BLOCK DETAIL  
(N.T.S.)

DESIGNED R.A. BUTLER 02-02-76  
DRAWN F.L. AMOS 03-02-76  
CHECKED A.B. WIEGAND 03-09-76  
APPROVED [Signature] 05-13-77

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
S-24	SUPPORT OF EXCAVATED STATIONS	7/11/77	JLB	ADDED WELD SIZE & CHANGED #8 TO #9 BAR
S-40	BETHESDA STA. PASSAGEWAY PLAN			
S-142	NORTH SERVICE AREA SECTION B-B & DETAILS	11/28/77	MFC	REVISED FOOTBLOCK AND BUTT PLATE LOCATION
S-158	PRECAST VAULT DETAILS			
ST-S-7	BONDING		HTN	DELETED PER FIELD COND. AS BUILT
S-42	BETH. STA. PASSAGEWAY SECTIONS			

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
S-24	SUPPORT OF EXCAVATED STATIONS	7/11/77	JLB	ADDED WELD SIZE & CHANGED #8 TO #9 BAR
S-40	BETHESDA STA. PASSAGEWAY PLAN			
S-142	NORTH SERVICE AREA SECTION B-B & DETAILS	11/28/77	MFC	REVISED FOOTBLOCK AND BUTT PLATE LOCATION
S-158	PRECAST VAULT DETAILS			
ST-S-7	BONDING		HTN	DELETED PER FIELD COND. AS BUILT
S-42	BETH. STA. PASSAGEWAY SECTIONS			



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESSE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

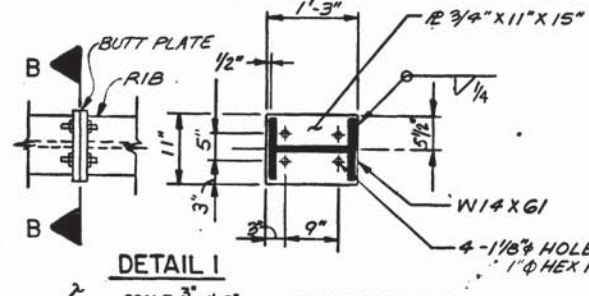
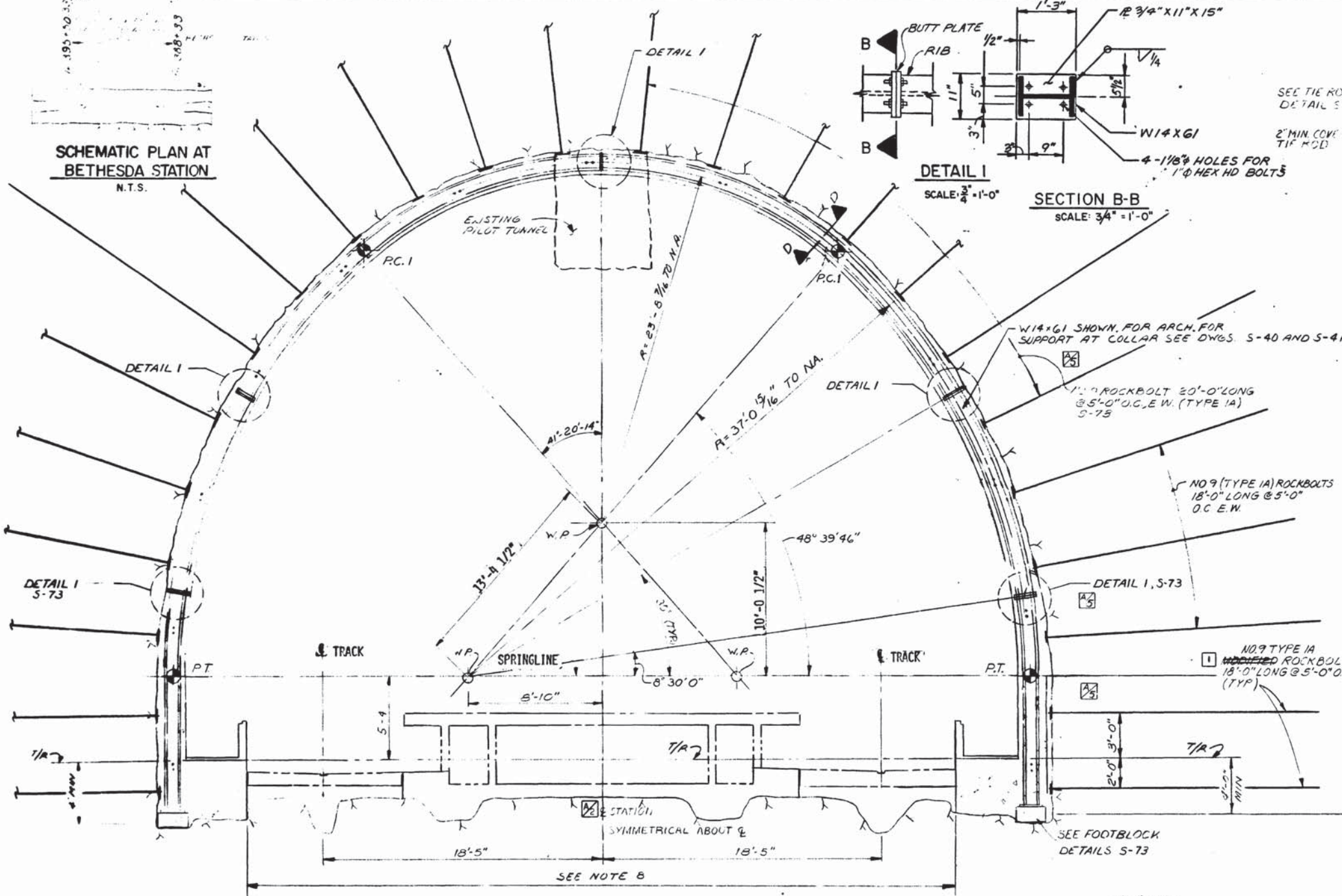
SUBMITTED [Signature] DATE 05-13-77 APPROVED [Signature]

**ROCKVILLE ROUTE**  
SUPPORT OF EXCAVATED STATION  
DETAILS

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

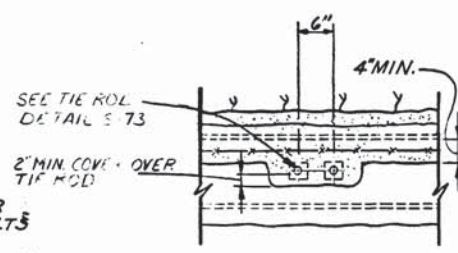
DRAWING NO. A11b-S-73 M276-63

**SCHEMATIC PLAN AT BETHESDA STATION**  
N.T.S.

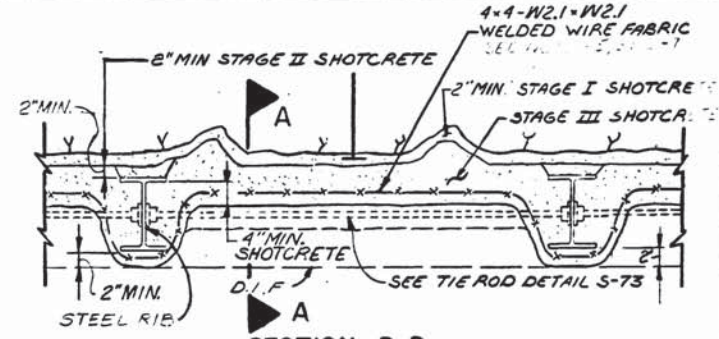


**DETAIL I**  
SCALE: 3/4" = 1'-0"

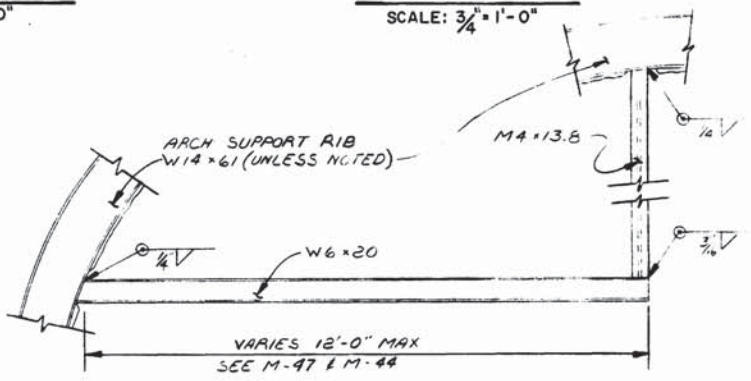
**SECTION B-B**  
SCALE: 3/4" = 1'-0"



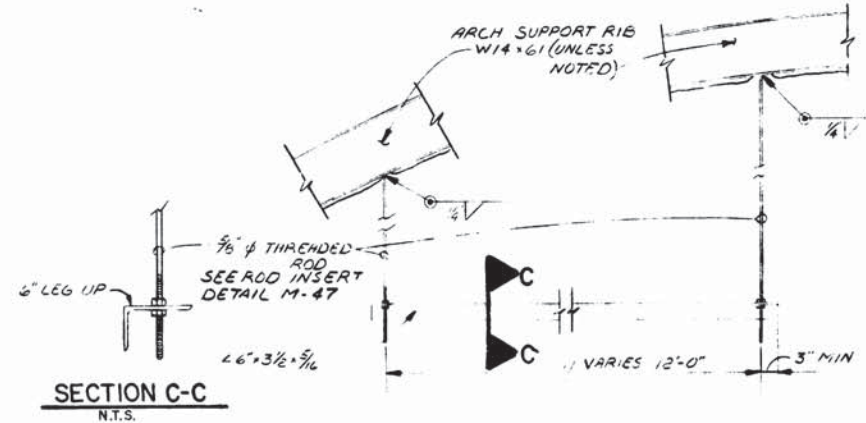
**SECTION A-A**  
SCALE: 3/4" = 1'-0"



**SECTION D-D**  
SCALE: 3/4" = 1'-0"



**TYPICAL PIPE ANCHOR SUPPORT (AT STATION ENDS)**  
SCALE: 1/2" = 1'-0"



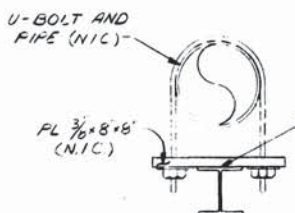
**SECTION C-C**  
N.T.S.

**TYPICAL TRAPEZE HANGER (PS-7)**  
SCALE: 1/2" = 1'-0"  
SEE M-47

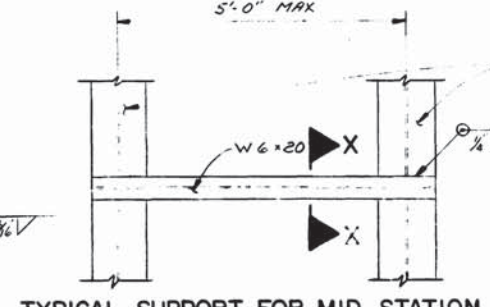
**TYPICAL STATION VAULT SUPPORT**  
SCALE: 1/4" = 1'-0"

**NOTES:**

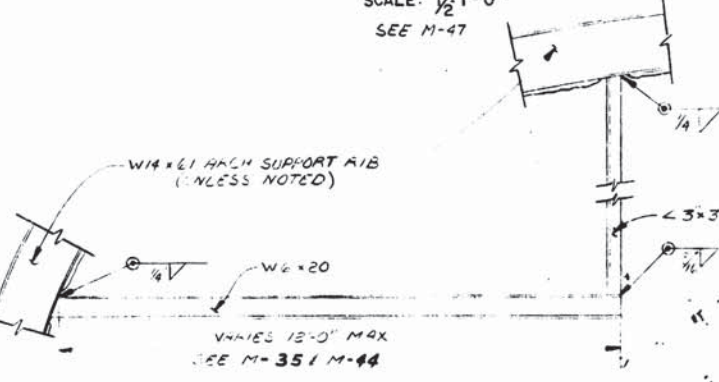
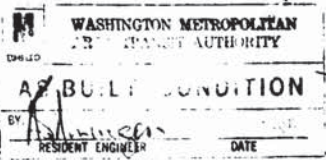
1. PILOT TUNNEL DRIVEN IN CONTRACT 1A0011.
2. ALL STATION SUPPORT RIBS ARE TO BE W14x61 UNLESS NOTED.
3. ALL PIPE SUPPORTS TO BE INSTALLED IN A11b CONTRACT FOR LOCATIONS, SEE M-35 & M-44
4. SPACING BETWEEN ADJACENT PIPE HANGERS OR PIPE SUPPORT NOT TO EXCEED 10'-0".
5. SHOTCRETE OR CONCRETE COVERING TO BE REMOVED FROM FLANGE OF RIB. AREA TO BE WELDED TO BE CLEANED THOROUGHLY TO BARE METAL.
6. ROCKBOLTS BELOW SPRINGLINE ARE TYPE 1A MODIFIED. [ ] ROCKBOLTS ABOVE SPRINGLINE ARE TYPE 1A.
7. FOR EXCAVATION SUPPORT AT STATION COLLARS SEE S-40 & S-41.
8. FOR STATION PLATFORM & INVERT CONCRETE SEE DWG. NOS. S-140, 145, 146, 147, 168 & 239. FOR INVERT CONCRETE IN ANCILLARY SPACE AREA SEE DWG. NOS. S-43 & S-41.



**SECTION X-X**  
N.T.S.



**TYPICAL SUPPORT FOR MID STATION EXPANSION LOOP ANCHORS**  
SCALE: 1/2" = 1'-0"



**TYPICAL PIPE GUIDE SUPPORT**  
SCALE: 1/2" = 1'-0"

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
R. A. BUTLER	2-12-76	2-12-76	3-1-76	S-40 S-41	PASSAGEWAY TO STA. PLAN & SECT.	11/28/77	FLA ADDED CALL OUT 1/2"
E. L. BURNETT JR.	3-1-76	S-41	3-19-76	S-73	ARCH AT COLLAR	10-15-82	MFC REVISED BUTT PLATE LOCATION
T. P. SMARNOFF	3-19-76	M-47	11-35-44	M-47	PIPE SUPPORTS		HTJ DELETED PER FIELD COND. AS BUILT
					PIPE SUPPORT LOCATION		

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHews • CHATELAIN • BEALL  
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SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

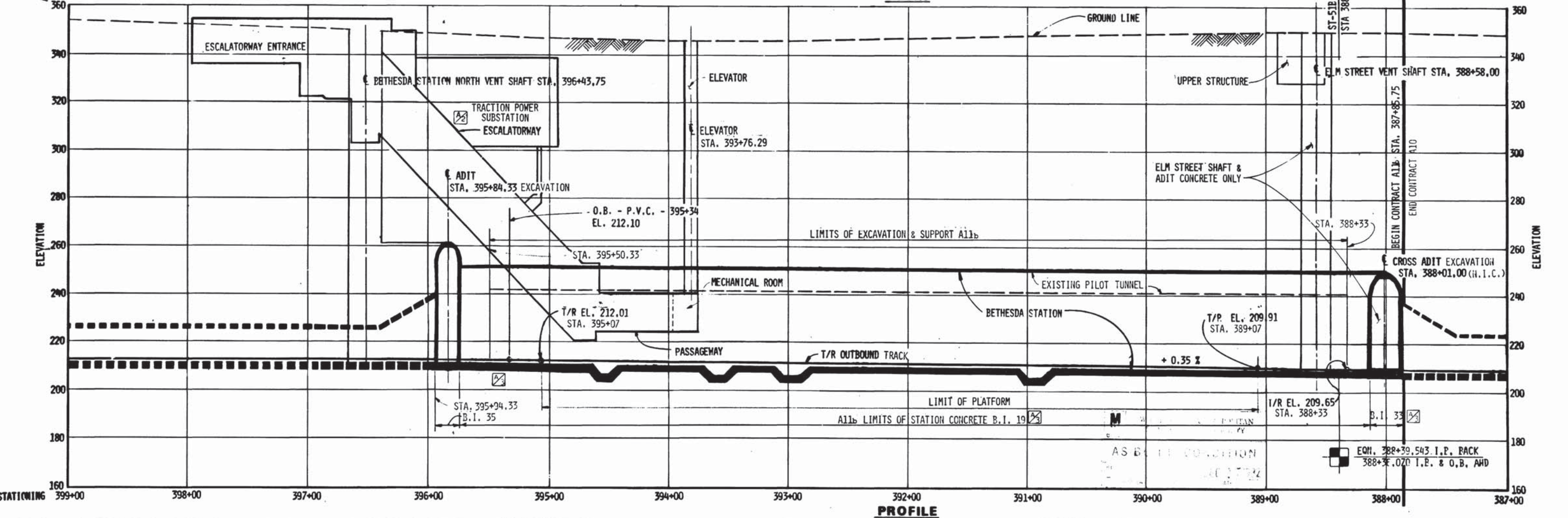
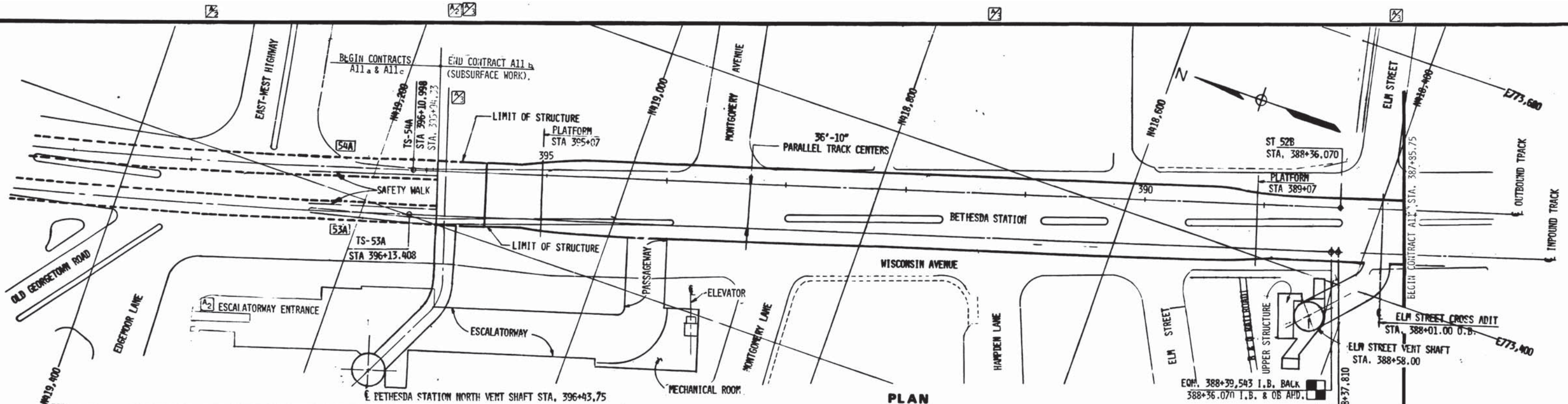
HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE  
SUPPORT OF EXCAVATED STATIONS  
PIPE SUPPORT DETAILS

AS NOTED

DRAWING NO. A11b-S-24

M276-62



DESIGNED	R.A. BUTLER	3/1/75	DATE
DRAWN	J.L. BISHOP	3/2/75	DATE
CHECKED	T.P. SMIRNOFF	3/4/75	DATE
APPROVED	<i>[Signature]</i>	5/6/77	DATE

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
PP-13	PLAN & PROFILE	7/11/77	JLB	REVISED SUBSTATION (A)
PP-14	PLAN & PROFILE	10-12-77	FLA	REVISED STATIONING



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

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SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 05-13-77 APPROVED *[Signature]*

**ROCKVILLE ROUTE  
KEY PLAN AND PROFILE  
BETHESDA STATION**

SCALE  
HORIZ. 1" = 40'  
VERT. 1" = 20'

DRAWING NO.  
A11b-S-10

M276-61



## STRUCTURAL NOTES

### A. GENERAL

1. PROJECT DATUM IS SEA LEVEL DATUM (1929 GENERAL ADJUSTMENT). SEE DATUM REFERENCE DWG. A11b-G-8
2. LOCATIONS, DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES, WHERE SHOWN ON THESE DRAWINGS, ARE APPROXIMATE ONLY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL SUCH INFORMATION INDEPENDENTLY IN THE FIELD.
3. ARRANGEMENT AND DESIGNATION OF PROJECT COMPONENTS ARE SHOWN ON DRAWING NO. S-10.
4. TOP OF RAIL ELEVATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. TRACK IS NOT PART OF THIS CONTRACT.
5. VERTICAL DIMENSIONS FOR ALL CONSTRUCTION ARE SHOWN FROM TOP OF OUTBOUND RAIL ELEVATION. TOP-OF-RAIL SHALL MEAN TOP OF LOW RAIL IN SUPERELEVATED SECTIONS.
6. LONGITUDINAL HORIZONTAL DIMENSIONS ARE BASED UPON STATIONING ALONG THE CENTERLINE OF THE OUTBOUND TRACK. (SEE DWG. NOS. PP-13 AND PP-14). TRANSVERSE HORIZONTAL DIMENSIONS ARE MEASURED PERPENDICULAR TO THE CENTERLINE OF THE OUTBOUND TRACK.
7. ELEVATIONS SHOWN: +0'-0" INDICATES ABOVE TOP OF RAIL AND -0'-0" INDICATES BELOW TOP OF RAIL.
8. FOR CONCRETE FINISHING SEE ARCHITECTURAL DRAWING A-40

### B. TEMPORARY UNDERPINNING, SHEETING, SHORING AND BULKHEADS

1. TEMPORARY UNDERPINNING, SHEETING, SHORING AND BULKHEADS SHALL BE DESIGNED BY THE CONTRACTOR IN CONFORMITY WITH THE SPECIFICATIONS AND INFORMATION GIVEN ON DRAWING S-211 AND S-213

### C. REINFORCED CONCRETE

1. DESIGN OF REINFORCED CONCRETE IS BASED UPON THE "ACI STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-71).
2. EXCEPT OTHERWISE SHOWN ON THE DRAWINGS DESIGN STRESS FOR CAST-IN-PLACE CONCRETE BASED UPON  $f'_c = 3500$  PSI,  $f_c = 0.40f'_c$  FOR ALL STRUCTURES, FOR SHOTCRETE AND FOR PRECAST CONCRETE STATION VAULTS  $f'_c = 5000$  PSI.
3. REINFORCING STEEL DESIGN STRESS IS AS FOLLOWS:

$$f_s = 24,000 \text{ PSI (ASTM A615-GRADE 60)}$$

$$\text{WELDED WIRE FABRIC } f_s = 30,000 \text{ PSI (ASTM A185)}$$

4. REINFORCEMENT DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE ACI MANUAL OF STANDARD PRACTICE (ACI 315). SPLICES AND EMBEDMENT LENGTHS NOT GIVEN ON THE CONTRACT DRAWINGS SHALL BE ASSUMED TO BE IN TENSION AND SHALL CONFORM TO THE REQUIREMENTS OF THE ABOVE MENTIONED CODE.
5. ALL REINFORCEMENT IN CONCRETE RETAINING WALLS, UNDERGROUND STRUCTURES, AERIAL AND SIMILAR STRUCTURES SHALL BE MADE ELECTRICALLY CONTINUOUS. THIS INCLUDES INTERFACE WITH ADJACENT CONTRACTS; CHIP OUT EXISTING CONCRETE TO MAKE CONNECTION WHERE NECESSARY. ALL SOLDIER PILES LEFT IN PLACE SHALL BE BONDED FOR CONTINUITY. UNLESS OTHERWISE SHOWN OR NOTED ELECTRICALLY BONDED CIRCUMFERENTIAL CONTRACTION JOINTS ARE TO BE CONSTRUCTED IN ALL STRUCTURES AT A MAXIMUM INTERVAL OF 50'-0" MEASURED HORIZONTALLY. DETAILS OF ELECTRICAL BONDING ARE SHOWN ON DWG. ST-S-7.

6. EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" x 3/4" UNLESS OTHERWISE NOTED.
7. CONSTRUCTION JOINTS AND REINFORCING STEEL SPLICES SHALL BE WHERE SHOWN ON THE DRAWINGS. ADDITIONAL HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS MAY BE PROPOSED BY THE CONTRACTORS SUBJECT TO APPROVAL BY THE ENGINEER. ALL CONSTRUCTION JOINTS IN EXTERIOR WALLS SHALL BE BONDED JOINTS.
8. DUCT OPENINGS IN CONCRETE FLOORS AND WALLS INDICATED WITH FIRE DAMPERS (SHOWN ON MECHANICAL DRAWINGS) SHALL HAVE THE DAMPERS INSTALLED AS A PART OF THIS CONTRACT. THE OPENING DIMENSIONS INDICATED AT STRUCTURAL DRAWINGS ARE OUTSIDE DIMENSIONS OF THE PENETRATING DUCTWORK. SEE NOTE 1 ON DRAWING M-1 FOR MORE DETAILS.

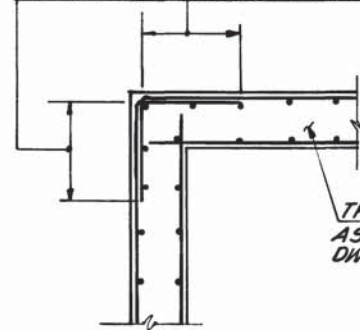
### D. STRUCTURAL STEEL

1. DESIGN OF STRUCTURAL STEEL IS BASED UPON THE "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" ADOPTED FEB. 12, 1969 BY THE AISC AND ITS SUPPLEMENTS.
2. WELDING DESIGN IS BASED UPON THE "AWS STRUCTURAL WELDING CODE, D1.1-75 WITH REV1-76.
3. DESIGN STRESS FOR STRUCTURAL STEEL IS AS SPECIFIED BY THE AISC CONSTRUCTION MANUAL FOR A36 STEEL.
4. ALL BOLTS FOR CONNECTING STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A325 EXCEPT SHOWN OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE FRICTION TYPE CONNECTIONS. BOLTS NOT OTHERWISE SHOWN SHALL BE 3/4" DIA. IN 13/16" DIA. HOLES.
5. WELDED CONNECTIONS SHOWN WITHOUT WELD SIZES SHALL BE MADE WITH 1/4" FILLET WELDS ALL AROUND.
6. WHERE SHOP HOLES ARE TO BE USED AS A TEMPLATE FOR DRILLING FIELD HOLES, THEY SHALL BE SUBPUNCHED AND REAMED TOGETHER WITH THE DRILLED HOLES.

### E. ROCKBOLTS

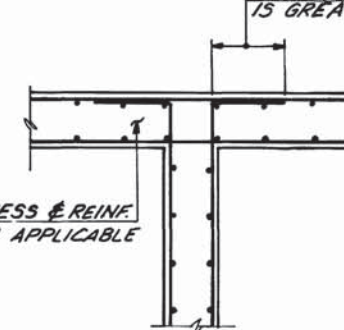
1. ROCKBOLT LENGTHS GIVEN ON THE DRAWINGS ARE MINIMUM.
2. ALL ROCKBOLTS ARE # 9 UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
3. ALL ROCKBOLTS FOR PERMANENT SUPPORT ARE TYPE 1A OR TYPE 1A MODIFIED.
4. SEE S-73 FOR ROCKBOLT DETAILS.

30 DIA. OR 2'-0" WHICHEVER IS GREATER

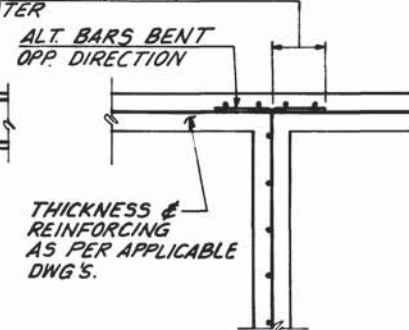


TYPICAL CORNER DETAIL

30 DIA. OR 2'-0" WHICHEVER IS GREATER



CONCRETE WALL INTERSECTION  
DOUBLE CURTAIN OF REINFORCEMENT



CONCRETE WALL INTERSECTION  
SINGLE CURTAIN OF REINFORCEMENT

## TYPICAL CONCRETE WALL REINFORCING DETAILS

NO SCALE:

NOTE: UNLESS OTHERWISE SHOWN OR NOTED, THESE DETAILS APPLICABLE FOR ALL CAST IN PLACE CONCRETE WALLS.

### F. SUPPORT OF EXCAVATION

1. ALL PILES AT ELM ST. SHAFT LEFT IN PLACE AS SHOWN ON CP-1A0112-100-7-1 EXCEPT THE TOP OF PILES 6, 7, 8, 9, 10 AND 11 CUT TO ELEV. 348.0
2. ALL PILES AT ENTRANCE LEFT IN PLACE AS SHOWN ON CP-1A0112-101-1-1 AND CP-1A0112-101-2-1 EXCEPT THE TOP OF PILES 25W THROUGH 30W, 20-1 THROUGH 25E THROUGH 30E CUT TO ELEV. 330.0

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
G.T.	11-75	5-100	ABBREVIATION & SYMBOLS	7/8/77	G.T. REVISE NOTES A, B & C S
DRAWN	K.V. BOUDO			2/20/06	REVISED NOTES PER FIELD
CHECKED	G.T.				CONDITION AS SHOWN
APPROVED	5/11				



## WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

SUBMITTED *Stewart & Beall* DATE 5/16/77

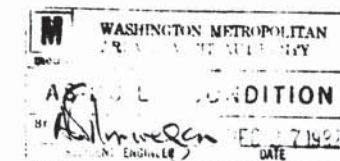
DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT  
HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

APPROVED *Robert J. ...*

## ROCKVILLE ROUTE STRUCTURAL NOTES

SCALE NONE

DRAWING NO. **A11b-S-101 M276-60**



ABBREVIATIONS

A.A.S.H.T.O.	- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DWLS.	- DOWELS	L.W.P.	- LOWER WORK POINT ⊕	∠	- ANGLE
ABT.	- ABOUT	DWG.	- DRAWING	M.B.T.	- MACHINE BORED TUNNEL	SPC.	- SPACE
ASB. CEM.	- ASBESTOS CEMENT (PIPE)	EA.	- EACH	MH.	- MANHOLE	SQ.	- SQUARE
A.C.I.	- AMERICAN CONCRETE INSTITUTE	E.F.	- EACH FACE	MAX.	- MAXIMUM	STD.	- STANDARD
ADD'N.	- ADDITIONAL	E.W.	- EACH WAY	MECH.	- MECHANICAL	STA.	- STATION
AHD.	- AHEAD	EL. OR ELEV.	- ELEVATION	MEZZ.	- MEZZANINE	STL.	- STEEL
A.I.S.C.	- AMERICAN INSTITUTE OF STEEL CONSTRUCTION	ELEC.	- ELECTRICAL	MIN.	- MINIMUM	STIFF.	- STIFFENER
ALT.	- ALTERNATE	EQ.	- EQUAL	MISC.	- MISCELLANEOUS	STIR	- STIRRUP
ANCH.	- ANCHOR	EON	- EQUATION	N	- NORTH	ST.	- STREET
AB.	- ANCHOR BOLT	EQUIP	- EQUIPMENT	N.I.C.	- NOT IN CONTRACT	STRUC	- STRUCTURAL
APPROX.	- APPROXIMATE	EXIST	- EXISTING	NO. OR #	- NUMBER	SUPPTG	- SUPPORTING
ARCH.	- ARCHITECTURAL	EXP	- EXPANSION	OPP	- OPPOSITE	SYMM.	- SYMMETRICAL
ASTM	- AMERICAN SOCIETY FOR TESTING AND MATERIALS	EXT	- EXTERIOR	O.C OR O/C	- ON CENTER	TEMP.	- TEMPERATURE
AVE.	- AVENUE	FT.	- FEET OR FOOT	OPNG.	- OPENING	THK.	- THICK
BAL.	- BALANCE	FIN.	- FINISH	O.B.	- OUTBOUND	T	- TOP
BK.	- BACK	FLG.	- FLANGE	O.D.	- OUTSIDE DIAMETER	T/C	- TOP OF CURB
B. P.	- BASE PLATE OR BEARING PLATE	FL.	- FLOOR OR FULL LENGTH	R	- PLATE	T/R	- TOP OF RAIL
BSMT.	- BASEMENT	F D	- FLOOR DRAIN	PLATF	- PLATFORM	T/LR	- TOP OF LOW RAIL
BM.	- BEAM	FTG.	- FOOTING	PT.	- POINT	T/HR	- TOP OF HIGH RAIL
BRG.	- BEARING	GA	- GAGE	P.C.	- POINT OF CURVE	T/S	- TOP OF SLAB
BEGIN.	- BEGINNING	GALV.	- GALVANIZED	P.I.	- POINT OF INTERSECTION	T.L.	- TOTAL LOAD
BTWN.	- BETWEEN	GIRD.	- GIRDER	P.I.T.O.	- POINT OF INTERSECTION OF TURNOUT	TYP.	- TYPICAL
B. OR BOT.	- BOTTOM	G.W.L.	- GROUND WATER LEVEL	P.S.	- POINT OF SWITCH	U.W.P.	- UPPER WORK POINT ⊕
BLDG.	- BUILDING	H.P.	- HIGH POINT	P.O.T.	- POINT ON TANGENT	VERT. OR V	- VERTICAL
BLVD.	- BOULEVARD	H.P.R.	- HYDROSTATIC PRESSURE RELIEF	P.C.F.	- POUNDS PER CUBIC FOOT	WT.	- WEIGHT
☐	- CENTERLINE	H.S.	- HIGH STRENGTH	P.L.F.	- POUNDS PER LINEAR FOOT	W	- WIDE FLANGE
CL.	- CLEAR, CLEARANCE	H.K.	- HOOK	P.S.F.	- POUNDS PER SQUARE FOOT	W/	- WITH
COL.	- COLUMN	HORIZ OR H	- HORIZONTAL	P.S.I.	- POUNDS PER SQUARE INCH	W/O	- WITHOUT
CONC.	- CONCRETE	I.B.	- INBOUND	P.V.C.	- POINT OF VERTICAL CURVE	W.O.	- WEB OPENING
CONN.	- CONNECTION	I.D.	- INSIDE DIAMETER OR INSIDE DIMENSION	PVC.	- POLYVINYL CHLORIDE	W.W.F.	- WELDED WIRE FABRIC
CONST.	- CONSTRUCTION	IN.	- INCH	PREC.	- PRECAST	W.P.	- WORKING POINT ⊕
CONTR. JT.	- CONTRACTION JOINT	INT.	- INTERIOR	R.	- RADIUS	F.R.P.	- FIBERGLASS REINFORCED PLASTIC PIPE
CONT.	- CONTINUOUS	ISOL.	- ISOLATION	REF.	- REFERENCE		
C.O.	- CLEAN OUT	JT.	- JOINT	REINF.	- REINFORCING OR REINFORCEMENT		
D.L.	- DEAD LOAD	KIP	- 1000 POUNDS	REM'D	- REMOVED		
DET.	- DETAIL	KSF	- KIPS PER SQUARE FOOT	REQ'D	- REQUIRED		
DIA.	- DIAMETER	KSI	- KIPS PER SQUARE INCH	RKVL.	- ROCKVILLE		
DIAG.	- DIAGONAL	K.O.	- KNOCK-OUT	RM.	- ROOM		
D.I.F.	- DEFINED INSIDE FACE	LBS.	- POUNDS	RTE.	- ROUTE		
DIM.	- DIMENSION	L.L.	- LIVE LOAD	SCHED.	- SCHEDULE		
DN.	- DOWN	LG.	- LONG	S.E.	- SUPERELEVATION		
DO.	- DITTO	LONG.	- LONGITUDINAL	SECT.	- SECTION		
		L.L.H.	- LONG LEG HORIZONTAL	SIM.	- SIMILAR		
		L.L.V.	- LONG LEG VERTICAL				
		L.P.	- LOW POINT				

SYMBOLS

	SECTION DESIGNATION
	DRAWING NUMBER ON WHICH SECTION APPEARS
	DETAIL (OR SECTION) DESIGNATION
	DRAWING NUMBER ON WHICH DETAIL APPEARS
	DENOTES: STRUCTURE (N.I.C.)

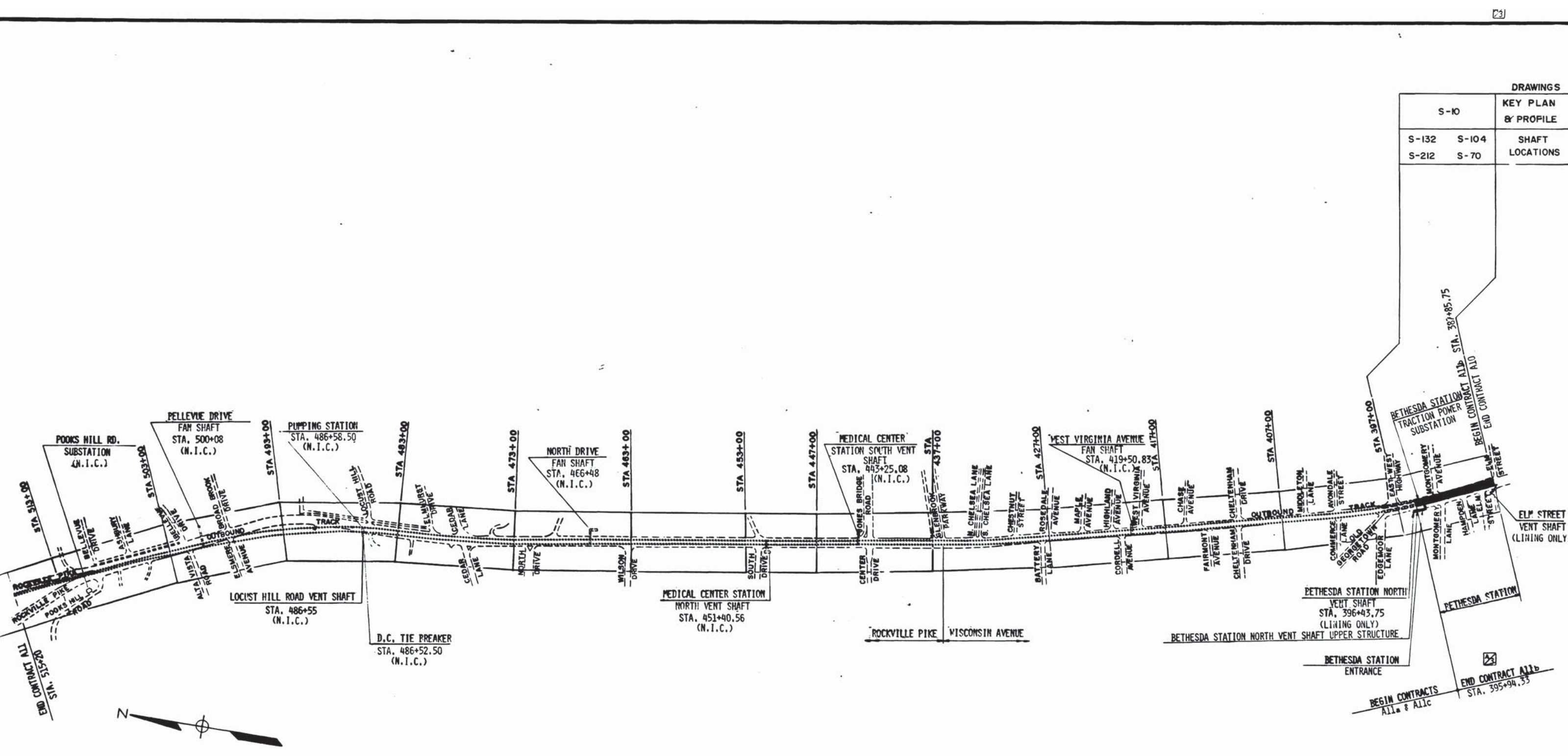
WASHINGTON METROPOLITAN  
AREA TRANSIT AUTHORITY

AS BUILT CONDITION

*Robert Weese* DEC 2 2012

DESIGNED		E.V.R.		5-74		DATE		REFERENCE DRAWINGS				REVISIONS					<b>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</b>				<b>ROCKVILLE ROUTE</b>			
DRAWN		E.V.R.		5-74		DATE		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		<b>ABBREVIATIONS AND SYMBOLS</b>							
CHECKED		S.C.T.		1-75		DATE		4-11-12								SCALE NONE								
APPROVED		<i>Stewart H. Beall</i>		5-77		DATE										DRAWING NO. <b>A11b-S-100</b> M-276-59								
								MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER				DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT				HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT								
								SUBMITTED <i>Stewart H. Beall</i> DATE 5/16/77				APPROVED <i>Robert Weese</i>												

DRAWINGS		KEY PLAN & PROFILE
S-10		
S-132	S-104	SHAFT LOCATIONS
S-212	S-70	



LEGEND:  
 - - - - - NOT INCLUDED IN CONTRACT A11b  
 ————— INCLUDED IN CONTRACT A11b

BEGIN CONTRACTS All & A11c  
 END CONTRACT A11b STA. 395+94.53

*Handwritten signature: H. Weese*

DESIGNED	R. A. BUTLER	2-2-76	DATE
DRAWN	J. A. D. KEELEY	2-11-76	DATE
CHECKED	T. P. SMIRNOFF	4-14-76	DATE
APPROVED	<i>[Signature]</i>		DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
		10/12/77	JADK	REVISED END CONTRACT STA. 395



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

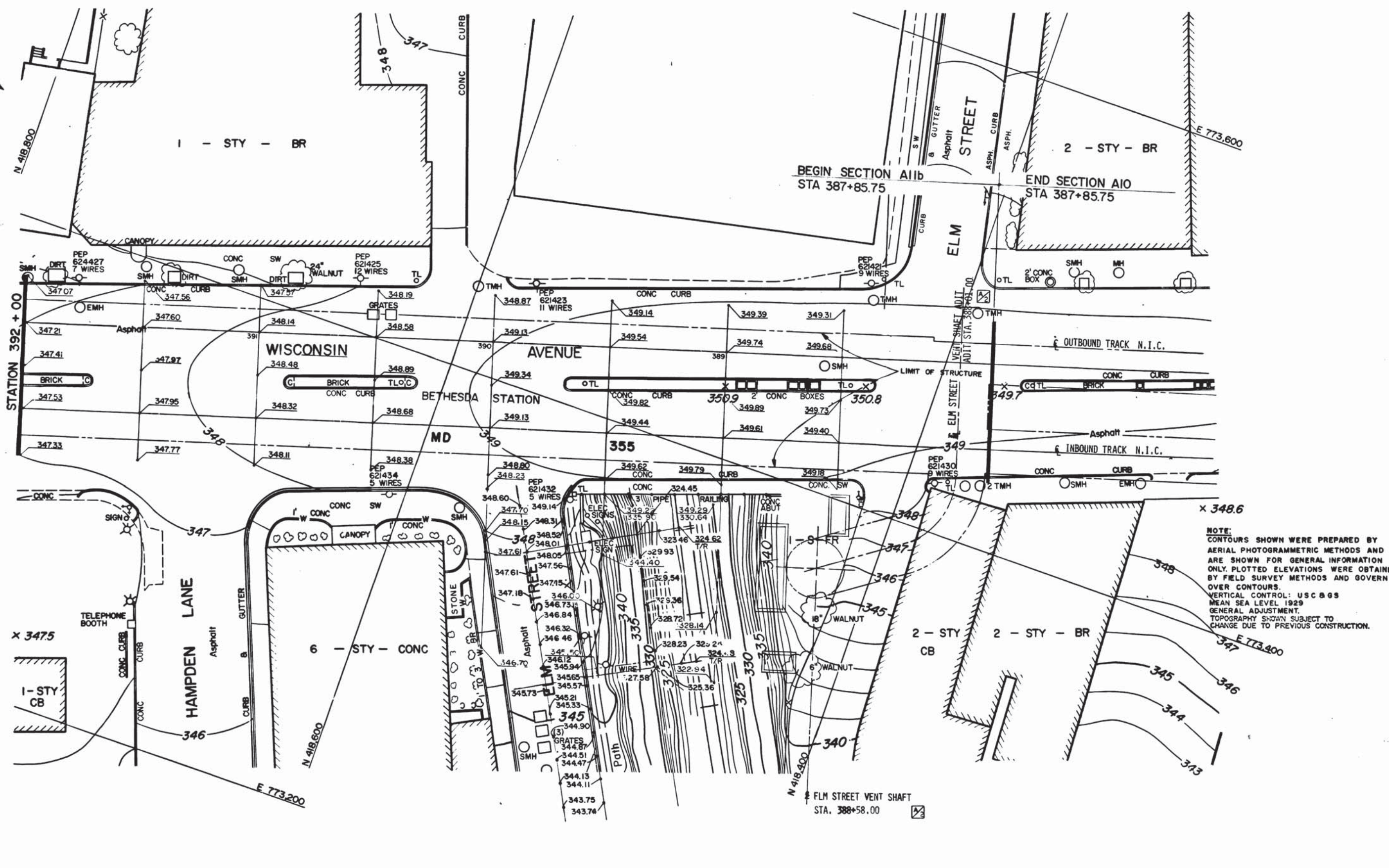
HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 05-12-77 APPROVED *[Signature]*

**ROCKVILLE ROUTE**  
 KEY PLAN OF STRUCTURAL DRAWINGS

SCALE 1" = 400'

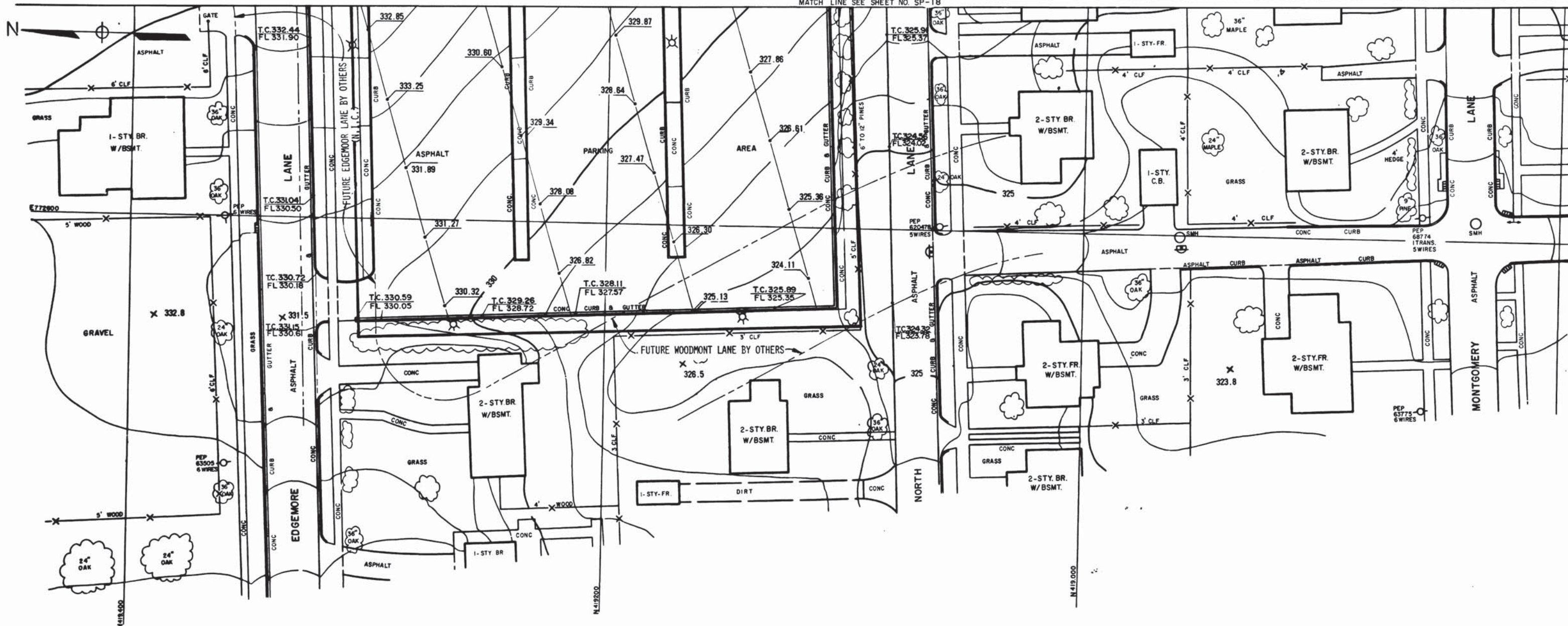
DRAWING NO. A11b-S-1 M276-58



NOTE:  
 CONTOURS SHOWN WERE PREPARED BY  
 AERIAL PHOTOGRAMMETRIC METHODS AND  
 ARE SHOWN FOR GENERAL INFORMATION  
 ONLY. PLOTTED ELEVATIONS WERE OBTAINED  
 BY FIELD SURVEY METHODS AND GOVERN  
 OVER CONTOURS.  
 VERTICAL CONTROL: USC & GS  
 MEAN SEA LEVEL 1929  
 GENERAL ADJUSTMENT.  
 TOPOGRAPHY SHOWN SUBJECT TO  
 CHANGE DUE TO PREVIOUS CONSTRUCTION.

DESIGNED <b>H. STONER</b> DATE 11-18-73	REFERENCE DRAWINGS	REVISIONS		<b>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</b>  <b>MATHEWS • CHATELAIN • BEALL</b> ENGINEERS AND ARCHITECTS SECTION DESIGNER		<b>DE LEUW, CATHIER &amp; COMPANY</b> GENERAL ENGINEERING CONSULTANT  <b>HARRY WEESE &amp; ASSOCIATES</b> GENERAL ARCHITECTURAL CONSULTANT		<b>ROCKVILLE ROUTE</b> SURVEY PLOTS STA 392+00 TO STA 387+00	
DRAWN <b>P. STANIER</b> DATE 11-18-73	NUMBER DESCRIPTION	DATE BY DESCRIPTION							

MATCH LINE SEE SHEET NO. SP-18



NOTE:  
 CONTOURS SHOWN WERE PREPARED BY AERIAL PHOTOGRAMMETRIC METHODS AND ARE SHOWN FOR GENERAL INFORMATION ONLY. PLOTTED ELEVATIONS WERE OBTAINED BY FIELD SURVEY METHODS AND GOVERN OVER CONTOURS. TOPOGRAPHY SHOWN SUBJECT TO CHANGE DUE TO PREVIOUS CONSTRUCTION.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
H.L. STONER JR.	1-2-75					
L.A. WALTERS	1-2-75					
J.R.V. DICKSON	5-8-75					



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 2-13-77 APPROVED *[Signature]*

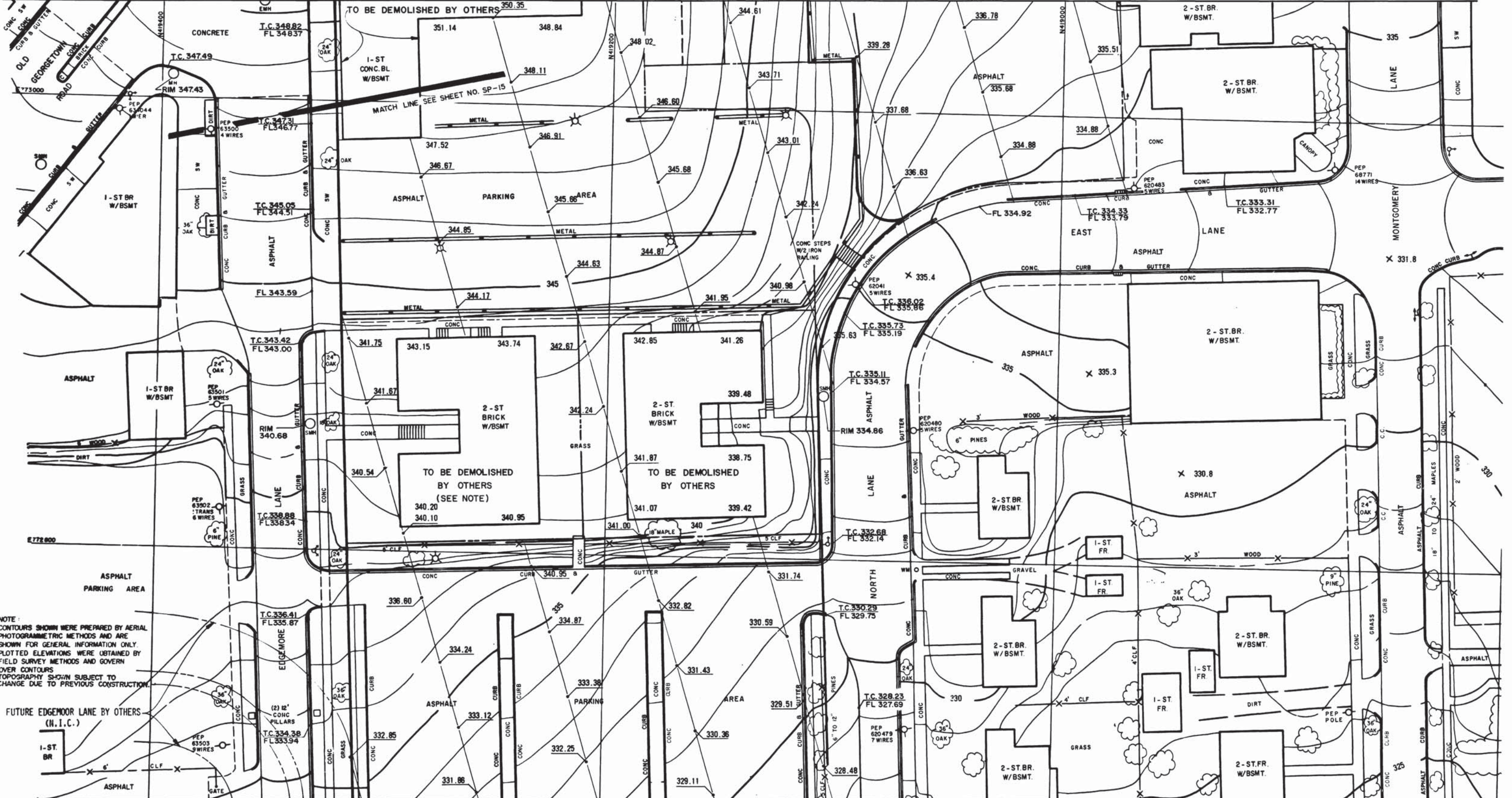
**ROCKVILLE ROUTE SURVEY PLOT**  
 BETHESDA STATION  
 FROM STA. 397+86.06 TO STA. 393+48.53

SCALE 1" = 20'

DRAWING NO. A11b - SP-19 M276-27



MATCH LINE SEE SHEET NO SP-17



MATCH LINE SEE SHEET NO. SP-19

NOTE: CONTOURS SHOWN WERE PREPARED BY AERIAL PHOTOGRAMMETRIC METHODS AND ARE SHOWN FOR GENERAL INFORMATION ONLY. PLOTTED ELEVATIONS WERE OBTAINED BY FIELD SURVEY METHODS AND GOVERN OVER CONTOURS. TOPOGRAPHY SHOWN SUBJECT TO CHANGE DUE TO PREVIOUS CONSTRUCTION.

FUTURE EDGE MOORE LANE BY OTHERS (N.I.C.)

DESIGNED H. L. STONER JR. 1-2-75  
 DRAWN L. A. WALTERS 1-2-75  
 CHECKED J. R. V. DICKSON 5-8-75  
 APPROVED [Signature] [Date]

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT

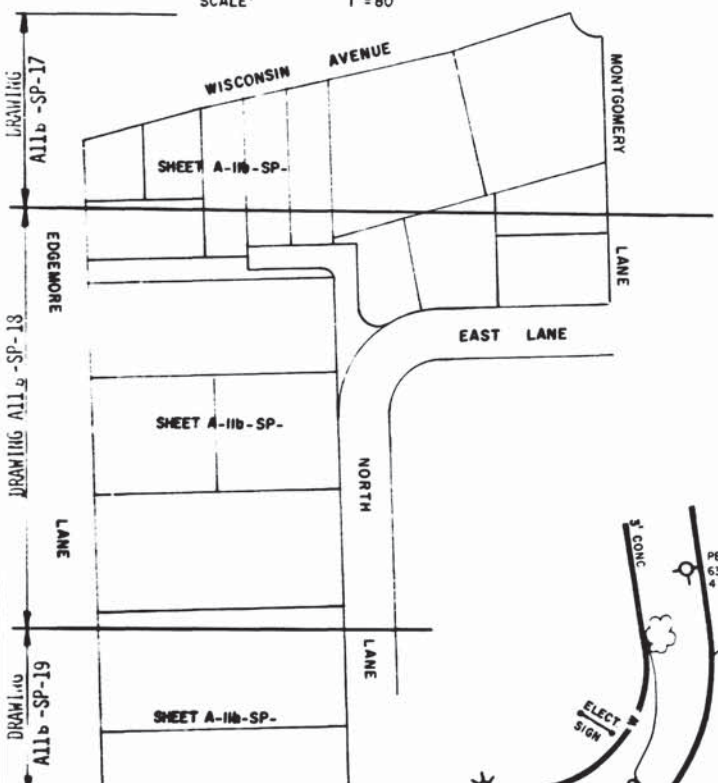
SUBMITTED [Signature] DATE 5-3-77 APPROVED [Signature]

**ROCKVILLE ROUTE**  
 SURVEY PLOT  
 BETHESDA STATION  
 FROM STA. 397+86.06 TO STA. 393+48.53

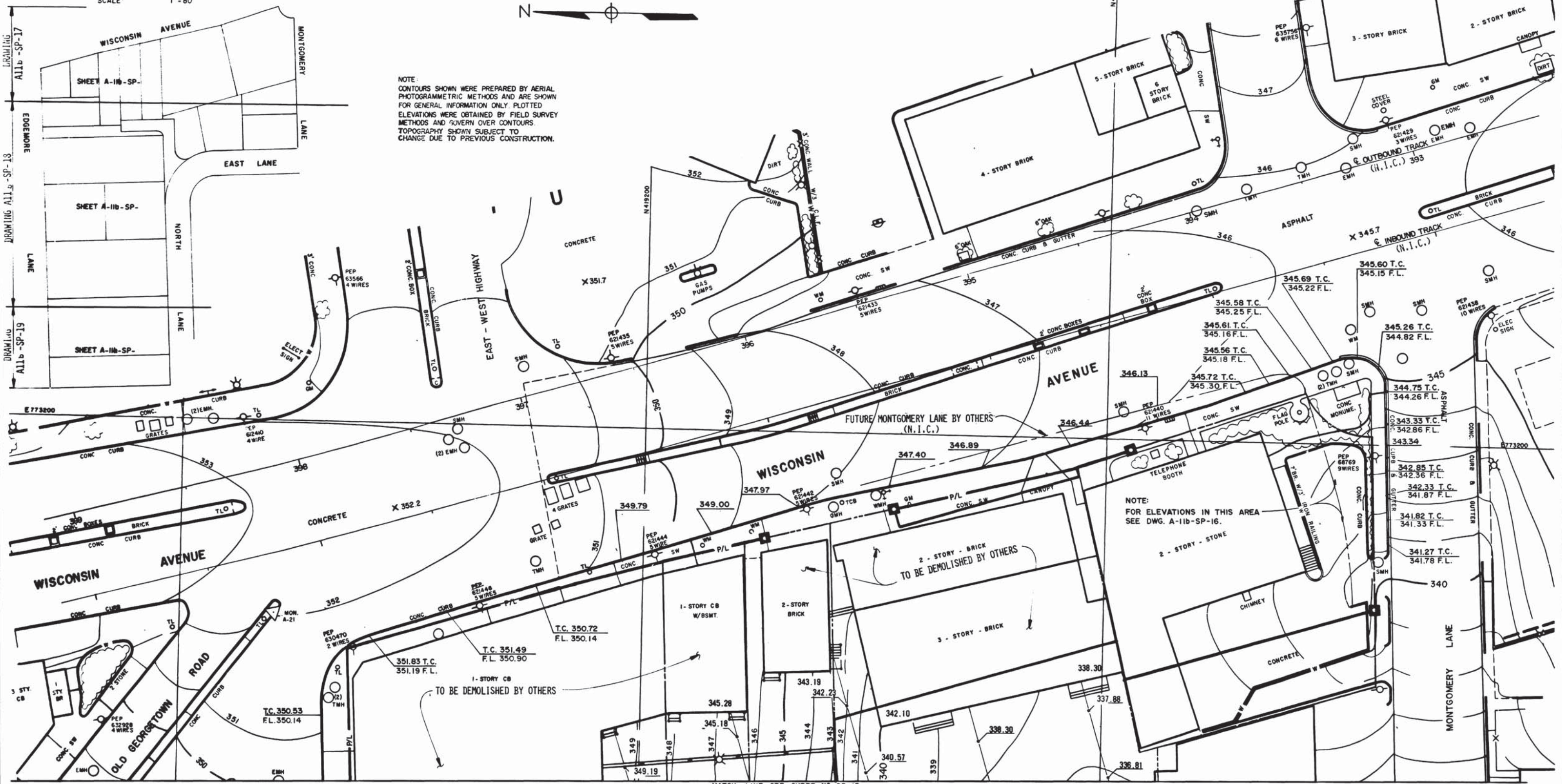
SCALE 1" = 20'

DRAWING NO. A11b - SP-18 M276-26

**KEY MAP**  
**BETHESDA STATION**  
 SCALE 1" = 80'



NOTE:  
 CONTOURS SHOWN WERE PREPARED BY AERIAL PHOTOGRAMMETRIC METHODS AND ARE SHOWN FOR GENERAL INFORMATION ONLY. PLOTTED ELEVATIONS WERE OBTAINED BY FIELD SURVEY METHODS AND GOVERN OVER CONTOURS. TOPOGRAPHY SHOWN SUBJECT TO CHANGE DUE TO PREVIOUS CONSTRUCTION.



NOTE:  
 FOR ELEVATIONS IN THIS AREA SEE DWG. A-11b-SP-16.

MATCH LINE SEE SHEET # SP-18

DESIGNED		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DATE	NUMBER	DESCRIPTION	DATE	DESCRIPTION
1-2-75	M.L. STONER JR.				
1-2-75	L.A. WALTERS				
5-9-75	J.R.V. DICKSON				



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

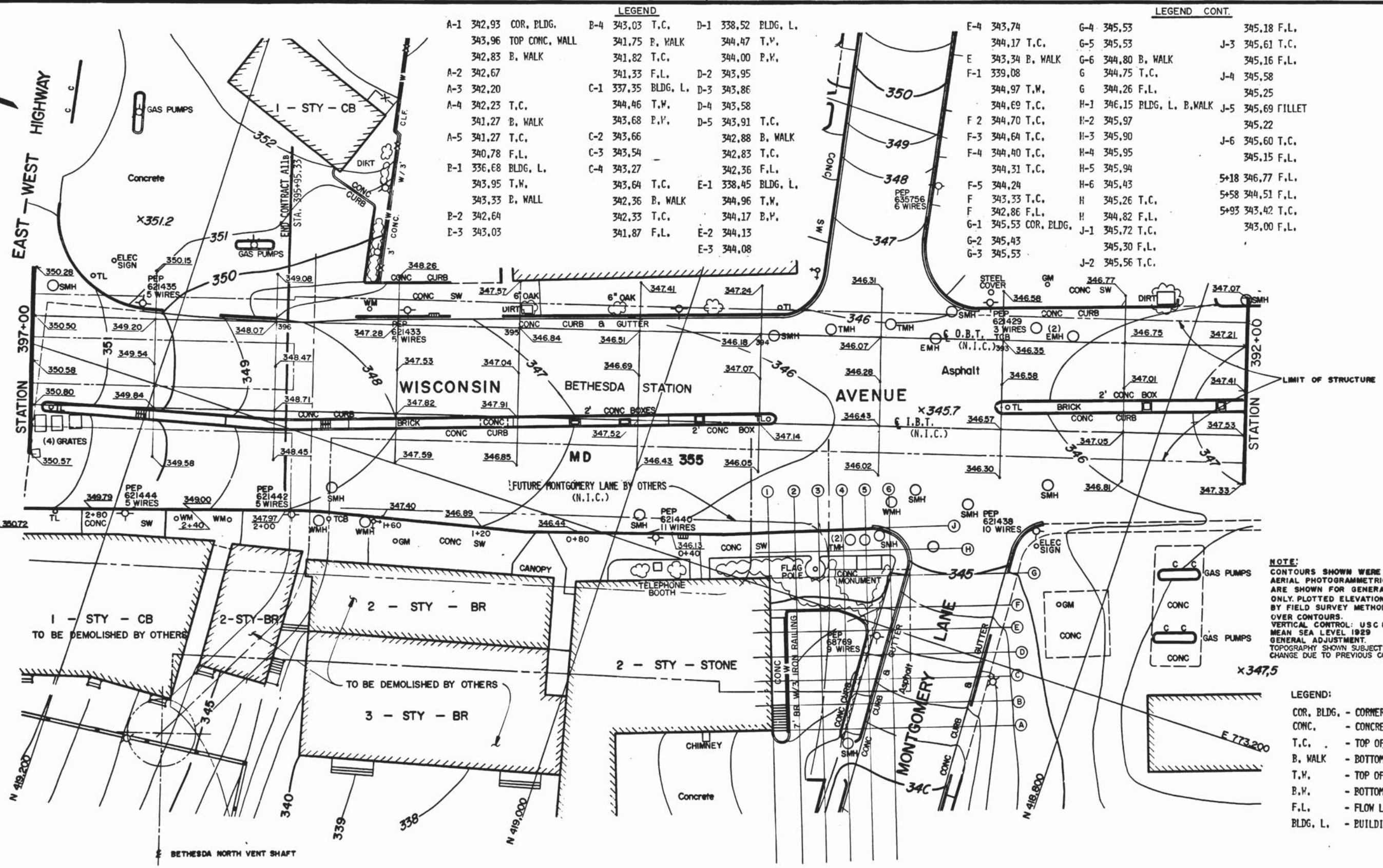
HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 02-12-77 APPROVED *[Signature]*

**ROCKVILLE ROUTE**  
 SURVEY PLOT  
 BETHESDA STATION  
 FROM STA. 397+86.06 TO STA. 393+48.53

SCALE 1" = 20'

DRAWING NO. **A11b - SP-17** M276-25



**LEGEND**

A-1 342.93 COR. BLDG.	B-4 343.03 T.C.	D-1 338.52 BLDG. L.
343.96 TOP CONC. WALL	341.75 B. WALK	344.47 T.V.
342.83 B. WALK	341.82 T.C.	344.00 P.V.
A-2 342.67	341.33 F.L.	D-2 343.95
A-3 342.20	C-1 337.35 BLDG. L.	D-3 343.86
A-4 342.23 T.C.	344.46 T.W.	D-4 343.58
341.27 B. WALK	343.68 P.V.	D-5 343.91 T.C.
A-5 341.27 T.C.	C-2 343.66	342.88 B. WALK
340.78 F.L.	C-3 343.54	342.83 T.C.
B-1 336.68 BLDG. L.	C-4 343.27	342.36 F.L.
343.95 T.W.	343.64 T.C.	E-1 338.45 BLDG. L.
343.33 B. WALL	342.36 B. WALK	344.96 T.W.
B-2 342.64	342.33 T.C.	344.17 B.V.
B-3 343.03	341.87 F.L.	E-2 344.13
		E-3 344.08

**LEGEND CONT.**

E-4 343.74	G-4 345.53	345.18 F.L.
344.17 T.C.	G-5 345.53	J-3 345.61 T.C.
E 343.34 B. WALK	G-6 344.80 B. WALK	345.16 F.L.
F-1 339.08	G 344.75 T.C.	J-4 345.58
344.97 T.W.	G 344.26 F.L.	345.25
344.69 T.C.	H-1 346.15 BLDG. L. B.WALK	J-5 345.69 FILLET
F 2 344.70 T.C.	H-2 345.97	345.22
F-3 344.64 T.C.	H-3 345.90	J-6 345.60 T.C.
F-4 344.40 T.C.	H-4 345.95	345.15 F.L.
344.31 T.C.	H-5 345.94	5+18 346.77 F.L.
F-5 344.24	H-6 345.43	5+58 344.51 F.L.
F 343.33 T.C.	H 345.26 T.C.	5+93 343.42 T.C.
F 342.86 F.L.	H 344.82 F.L.	343.00 F.L.
G-1 345.53 COR. BLDG.	J-1 345.72 T.C.	
G-2 345.43	345.30 F.L.	
G-3 345.53	J-2 345.56 T.C.	

**NOTE:**  
 CONTOURS SHOWN WERE PREPARED BY AERIAL PHOTOGRAMMETRIC METHODS AND ARE SHOWN FOR GENERAL INFORMATION ONLY. PLOTTED ELEVATIONS WERE OBTAINED BY FIELD SURVEY METHODS AND GOVERN OVER CONTOURS.  
 VERTICAL CONTROL: USC & GS MEAN SEA LEVEL 1929 GENERAL ADJUSTMENT.  
 TOPOGRAPHY SHOWN SUBJECT TO CHANGE DUE TO PREVIOUS CONSTRUCTION.

**LEGEND:**

- COR. BLDG. - CORNER OF BUILDING
- CONC. - CONCRETE
- T.C. - TOP OF CURB
- B. WALK - BOTTOM OF WALK
- T.W. - TOP OF WALL
- B.V. - BOTTOM OF WALL
- F.L. - FLOW LINE
- BLDG. L. - BUILDING LINE

DESIGNED	H. STONER	11-18-73
DATE		
DRAWN	P. STANIER	11-18-73
DATE		
CHECKED	J.R.V. DICKSON	5-8-75
DATE		
APPROVED		
DATE		

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY

REVISIONS	
DATE	DESCRIPTION



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT

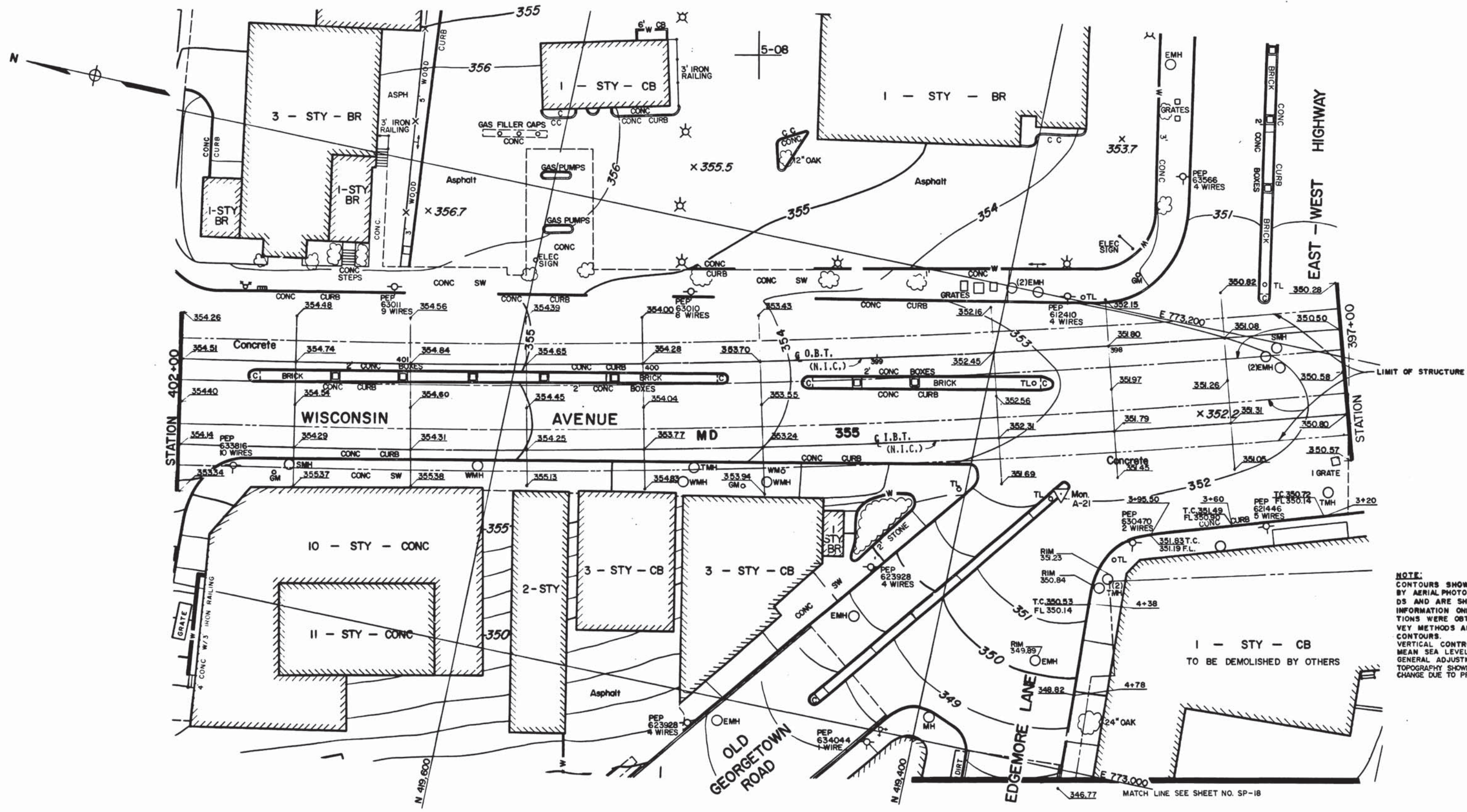
SUBMITTED *A.P. Green* DATE 2-13-75 APPROVED *Robert Miller*

**ROCKVILLE ROUTE**  
 SURVEY PLOTS  
 STA 397+00 TO STA 392+00

SCALE 1" = 20'

DRAWING NO. Allb - SP-16 M276-24





**NOTE:**  
 CONTOURS SHOWN WERE PREPARED BY AERIAL PHOTOGRAMMETRIC METHODS AND ARE SHOWN FOR GENERAL INFORMATION ONLY. PLOTTED ELEVATIONS WERE OBTAINED BY FIELD SURVEY METHODS AND GOVERN OVER CONTOURS.  
 VERTICAL CONTROL: USC&GS MEAN SEA LEVEL 1929 GENERAL ADJUSTMENT.  
 TOPOGRAPHY SHOWN SUBJECT TO CHANGE DUE TO PREVIOUS CONSTRUCTION.

DESIGNED H. STONER 11-18-73  
 DATE  
 DRAWN S. BLANCK 11-18-73  
 DATE  
 CHECKED J.R.V. DICKSON 5-8-79  
 DATE  
 APPROVED [Signature] 5-8-79  
 DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

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 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHAR & COMPANY  
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANT

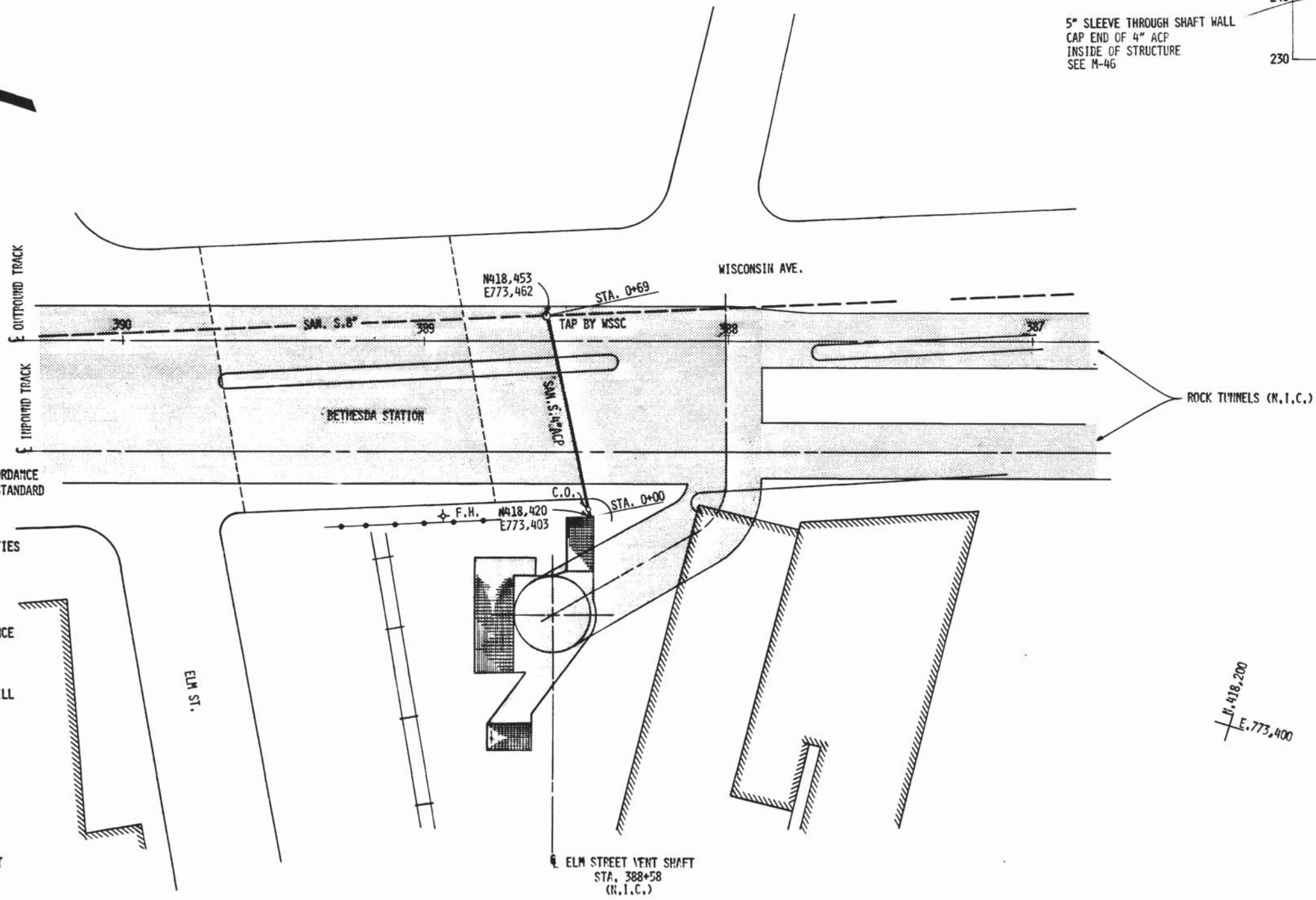
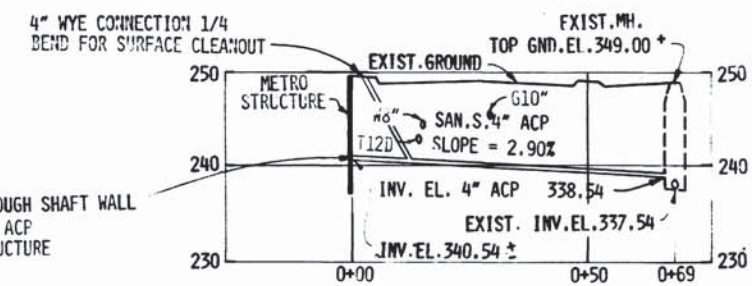
SUBMITTED: [Signature] DATE 05-13-77 APPROVED: [Signature]

**ROCKVILLE ROUTE**  
 SURVEY PLOTS  
 STA 402+00 TO STA 397+00

SCALE: 1" = 20'

DRAWING NO.  
 A11b-SP-15 M276-23





**GENERAL NOTES**

1. ALL SANITARY SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE GENERAL SPECIFICATIONS AND STANDARD DETAILS OF THE WSSC.
2. MAIN LINE SEWER PIPE TO BE A.C.P. TYPE II, CLASS 2400
3. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF WSSC FACILITIES BEFORE BEGINNING CONSTRUCTION.
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A COMMITMENT FOR SERVICE.
5. ALL ON-SITE SEWER LINE MATERIALS MUST BE INSPECTED BY WSSC INSPECTORS BEFORE INSTALLATION. NOTIFY THE QUALITY ASSURANCE SECTION, PHONE 277-7700, EXT. 372 OR 572 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE MATERIAL WILL BE INSPECTED AND IF PASSED AN APPROVAL SYMBOL WILL BE STAMPED ON EACH ITEM OF MATERIAL AND A CERTIFICATE OF COMPLIANCE WILL BE ISSUED TO THE SUPERINTENDENT.
6. INSPECTION OF THE ON-SITE SEWER SYSTEMS SHALL BE DONE BY A REGISTERED PROFESSIONAL ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE AND SAID ENGINEER SHALL CERTIFY THAT ALL CONSTRUCTION HAS BEEN DONE IN ACCORDANCE WITH THESE REGULATIONS AND THE COMMISSION'S GENERAL SPECIFICATIONS.
7. THE ENGINEERS CERTIFICATION ACCOMPANIED BY THE SEWER AIR-TEST RECORDS SHALL BE SUBMITTED TO THE COMMISSION PRIOR TO FINAL INSPECTION OF THE PLUMBING IN THE BUILDING.
8. THE ON-SITE CONTRACTOR SHALL NOTIFY THE COMMISSION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION OF THE ON-SITE SYSTEM.
9. AN "AS-BUILT" PLAN MUST BE SUBMITTED WHEN THE ON-SITE WORK IS COMPLETED SHOWING ANY CHANGES AND INCLUDING TIES FOR THE MANHOLES, AND LATERALS ACCOMPANIED BY THE QUALIFYING AIR-TEST DATE AND CERTIFICATION OF COMPLIANCE. THE AS-BUILT DRAWINGS SHALL BE REPRODUCIBLE MATERIALS.

DESIGNED		REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
1-0-14	NOTES AND LEGEND	10-12-77	FLA	ADDED GENERAL NOTES		
1-1-14	ELM ST. VERT SHAFT COMPOSITE UTILITIES					
1-1-36	PAVING DETAILS					



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

DE LEUW, CATHY & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

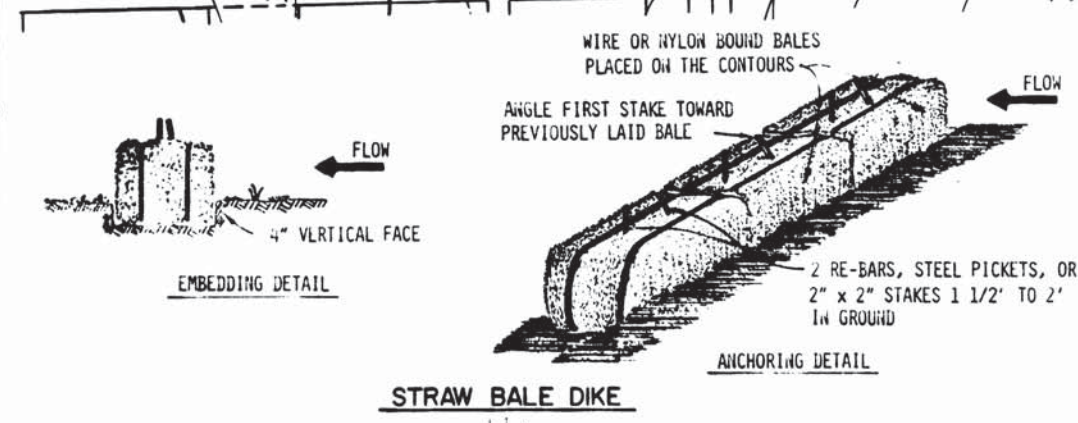
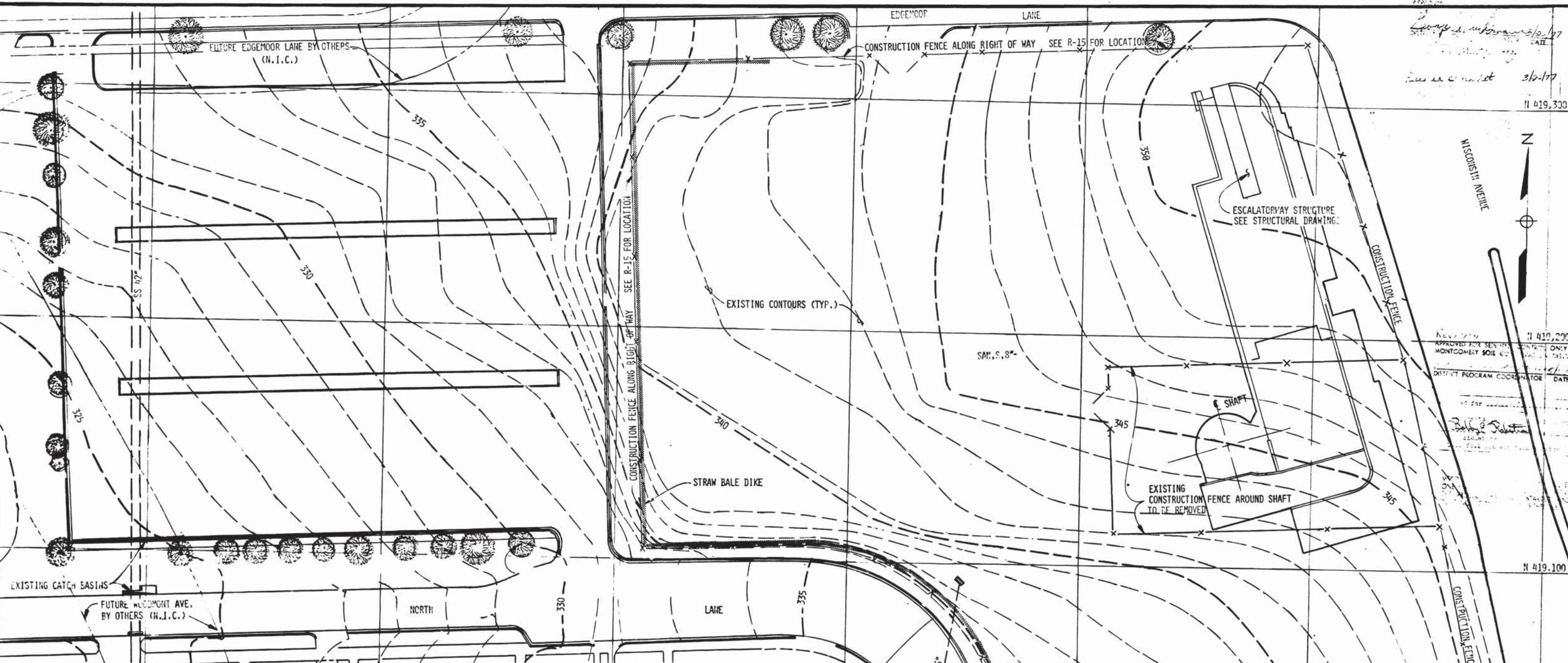
SUBMITTED: *[Signature]* DATE: 05-13-77 APPROVED: *[Signature]*

**ROCKVILLE ROUTE  
UTILITIES - SEWER  
ELM STREET VENT SHAFT**

SCALE: 1" = 20'

DRAWING NO. **A11b-U-6**

**M276-38**



- NOTES:
1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
  3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
  4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

DESIGNED	H.P. LUDWIG	3-11-77	DATE
DRAWN	E.L. BURNETT	3-15-77	DATE
CHECKED	A.B. WIEGAND	3-16-77	DATE
APPROVED	<i>[Signature]</i>		DATE

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
R-15	RIGHT-OF-WAY BETH. STA.			

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 2-12-77

APPROVED *[Signature]*

**ROCKVILLE ROUTE**

SEDIMENTATION CONTROL  
BETHESDA STATION

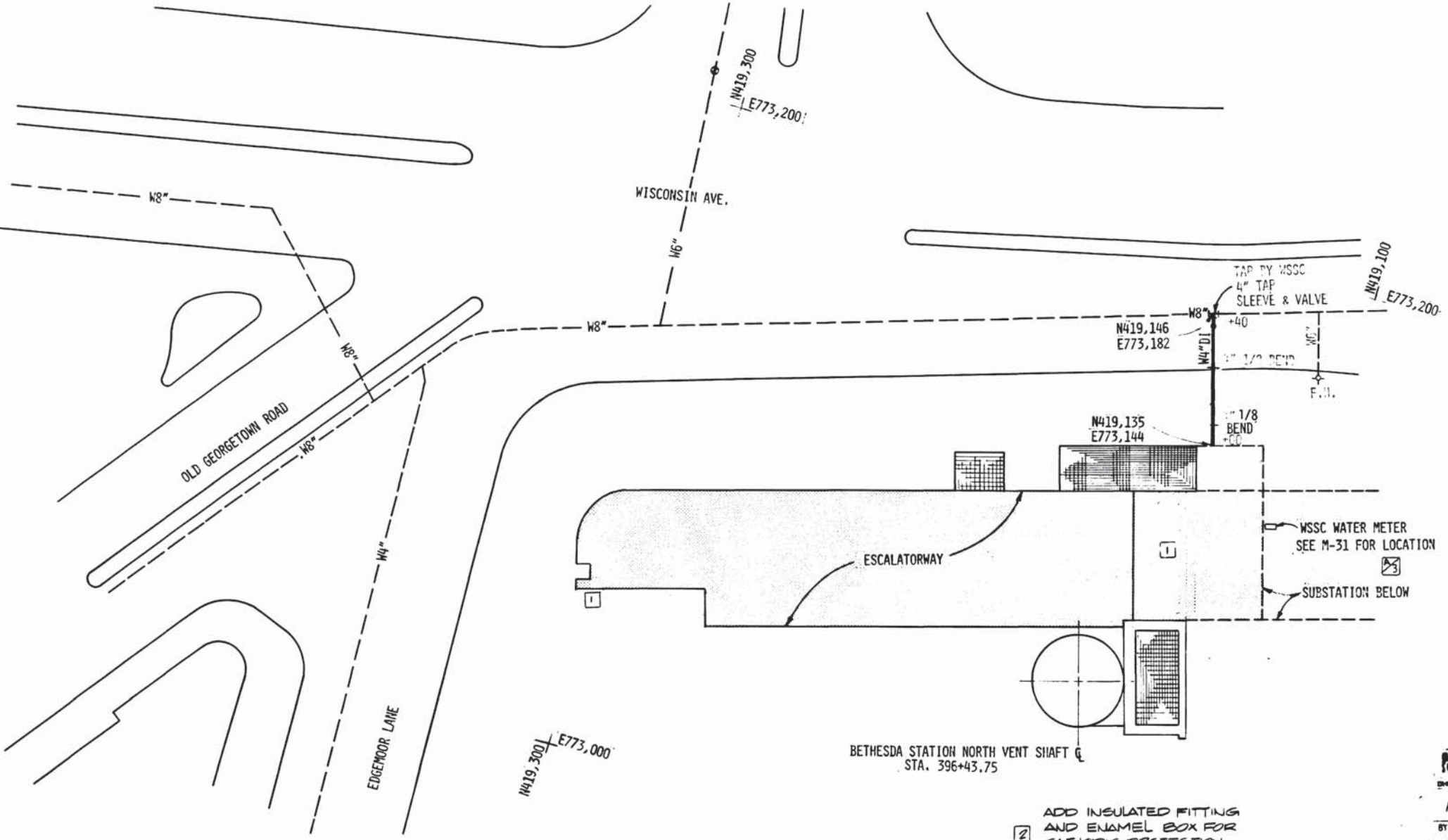
SCALE 1" = 20'

DRAWING NO. A11b-U-4 M276-37



**GENERAL NOTES**

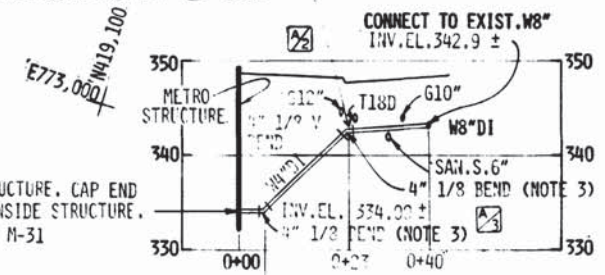
1. ALL WATER MAIN CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE GENERAL SPECIFICATIONS AND STANDARD DETAILS OF THE WSSC.
2. MAIN LINE 4" WATER PIPE TO BE CEMENT LINED DUCTILE IRON, CLASS 2
3. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF WSSC FACILITIES BEFORE BEGINNING CONSTRUCTION.
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A COMMITMENT FOR SERVICE.
5. ALL ON-SITE WATER LINE MATERIALS MUST BE INSPECTED BY WSSC INSPECTORS BEFORE INSTALLATION. NOTIFY THE QUALITY ASSURANCE SECTION, PHONE 277-7700, EXT. 372 OR 572 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE MATERIAL WILL BE INSPECTED AND IF PASSED AN APPROVAL SYMBOL WILL BE STAMPED ON EACH ITEM OF MATERIAL AND A CERTIFICATE OF COMPLIANCE WILL BE ISSUED TO THE SUPERINTENDENT.
6. INSPECTION OF THE ON-SITE WATER SYSTEMS SHALL BE DONE BY A REGISTERED PROFESSIONAL ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE AND SAID ENGINEER SHALL CERTIFY THAT ALL CONSTRUCTION HAS BEEN DONE IN ACCORDANCE WITH THESE REGULATIONS AND THE COMMISSION'S GENERAL SPECIFICATIONS.
7. THE ENGINEERS CERTIFICATION ACCOMPANIED BY THE SEWER AIR-TEST RECORDS SHALL BE SUBMITTED TO THE COMMISSION PRIOR TO FINAL INSPECTION OF THE PLUMBING IN THE BUILDING.
8. THE ON-SITE CONTRACTOR SHALL NOTIFY THE COMMISSION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION OF THE ON-SITE SYSTEM.
9. AN "AS-BUILT" PLAN MUST BE SUBMITTED WHEN THE ON-SITE WORK IS COMPLETED SHOWING ANY CHANGES AND INCLUDING TIES FOR THE LOCATION OF VALVES, BENDS, FIRE HYDRANTS, AND LATERALS ACCOMPANIED BY THE QUALIFYING AIR-TEST DATE AND CERTIFICATION OF COMPLIANCE. THE AS-BUILT DRAWINGS SHALL BE REPRODUCIBLE MATERIALS.



BETHESDA STATION NORTH VENT SHAFT  
STA. 396+43.75

ADD INSULATED FITTING AND ENAMEL BOX FOR CATHODIC PROTECTION SEE PROFILE ON DWG ST-E-302

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
**AS-BUILT CONDITION**  
BY: [Signature] DATE: [Blank]



- NOTES:**
1. NOTIFY THE WASHINGTON GAS LIGHT CO. 48 HOURS PRIOR TO ANY CONSTRUCTION.
  2. CONSTRUCTION OPERATIONS IN THE PROXIMITY OF EXISTING UTILITIES SHALL PROCEED WITH EXTREME CAUTION AND WITHOUT INTERRUPTION OF SERVICE.
  3. BLOCK AND STRAP 4" 1/8 VERTICAL BENDS. SEE BUTTRESSES FOR LOWER 1/8 VERTICAL BENDS ST-U-32 AND ELEVATION FOR 1/8 UPPER VERTICAL BENDS ST-U-33



DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1-U-14	NOTES AND LEGEND	7-11-77	JAVK	REVISED UTILITY CROSSINGS IN PROFILE AND ADDED NOTES 1, 2			
U-13	BETHESDA STA. ENT. COMPOSITE UTILITIES						
M-45	BETHESDA STA. CHILLER PLANT						
1-U-36	PAVING DETAILS						



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHews • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS

SECTION DESIGNER

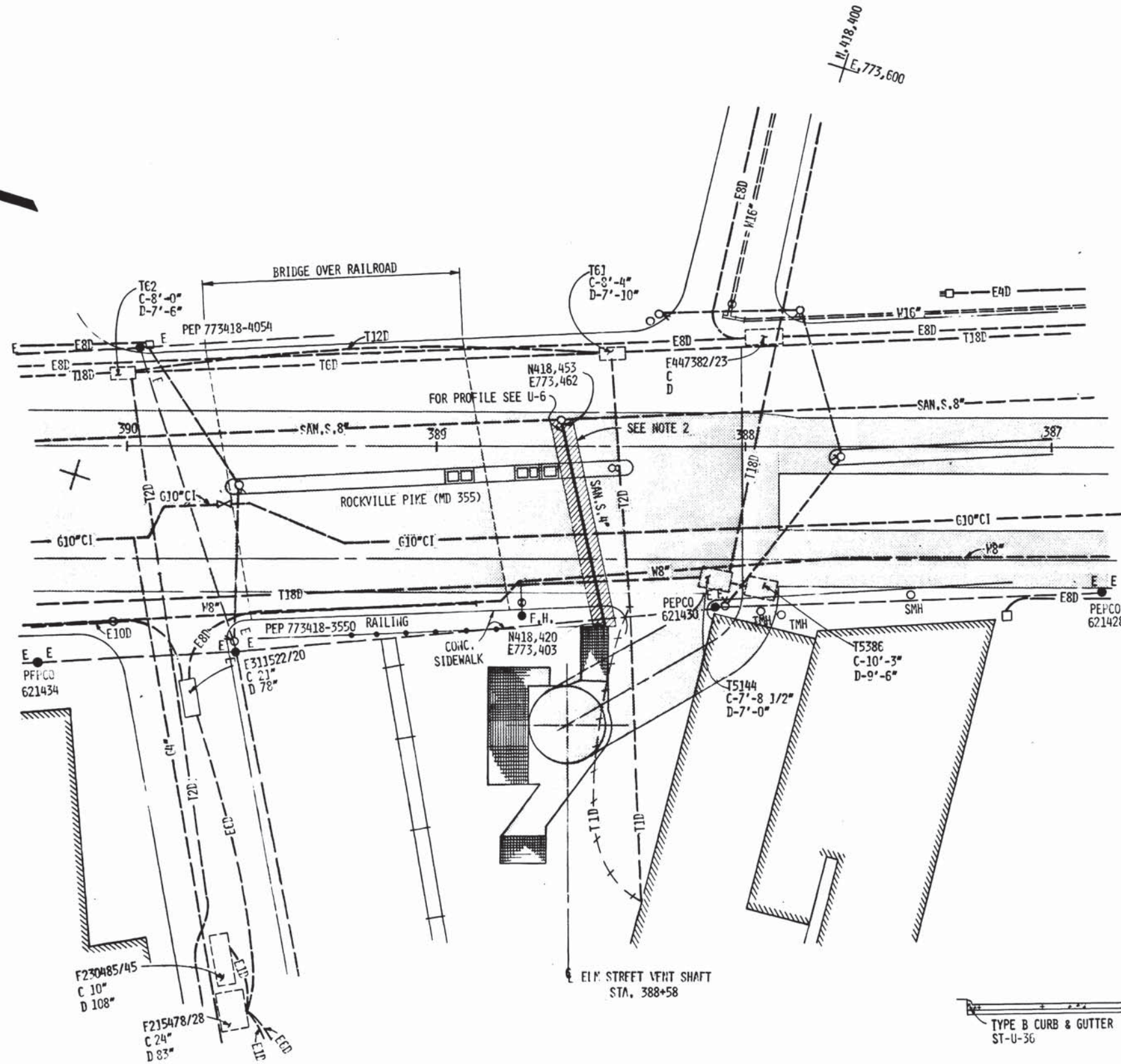
DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

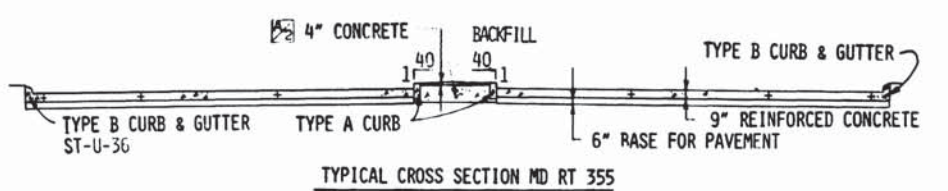
SUBMITTED: [Signature] DATE: 02-12-77 APPROVED: [Signature]

**ROCKVILLE ROUTE  
UTILITIES-WATER  
BETHESDA STATION NORTH VENT SHAFT**

SCALE: 1"=20'  
DRAWING NO. A11b-U-3  
M276-36



NOTE: 1. SEE NOTE DRAWING U-13  
 2. WHERE REQUIRED, RESTORE STREETS AND SIDEWALK PER DRAWING ST-U-36



DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
F.L. AMOS	3-18-73	ST-U-14	NOTES AND LEGEND	7/11/77	JLB	REVISED MEDIAN SECTION OF ROADWAY
J.L. BISHOP	3-20-73	U-6	ELM ST. VENT SHAFT UTILITIES-SEWER			
J.R.V. DICKSON	3-22-73	ST-U-36	PAVING DETAILS			
APPROVED	DATE					



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL DESIGNER

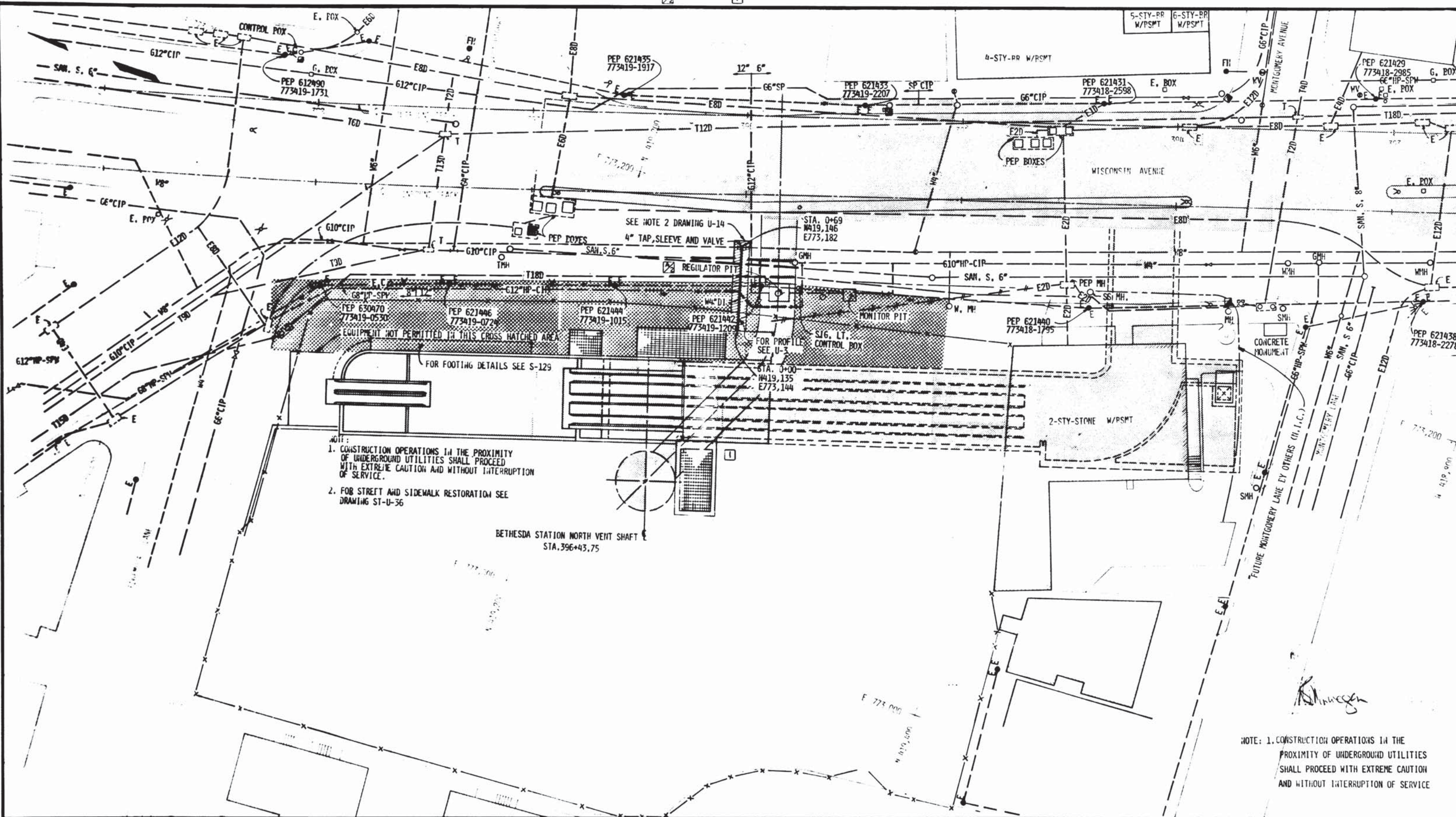
SUBMITTED *[Signature]* DATE 07-12-77 APPROVED *[Signature]*

**ROCKVILLE ROUTE**  
**COMPOSITE-UTILITIES**  
**ELM STREET VENT SHAFT**

SCALE 1"=20'

DRAWING NO. **A11b-U-14**

**M276-35**



- NOTE:
1. CONSTRUCTION OPERATIONS IN THE PROXIMITY OF UNDERGROUND UTILITIES SHALL PROCEED WITH EXTREME CAUTION AND WITHOUT INTERRUPTION OF SERVICE.
  2. FOR STREET AND SIDEWALK RESTORATION SEE DRAWING ST-U-36

NOTE: 1. CONSTRUCTION OPERATIONS IN THE PROXIMITY OF UNDERGROUND UTILITIES SHALL PROCEED WITH EXTREME CAUTION AND WITHOUT INTERRUPTION OF SERVICE

DESIGNED	F. L. AMOR	8-12-78
DRAWN	J. L. BRIDOP	9-14-78
CHECKED	J. R. DICKSON	9-18-78
APPROVED		

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
1-U-14	NOTES AND LEGEND	7/11/77	JLB	MAINTAIN IN PLACE 610", SAN. S. 6", T18D & 612" 1/2"
2	UTILITIES-WATER	2/2/82	VD	REV PER REV # 6 AS-BJ-JT

DATE	BY	DESCRIPTION
7/11/77	JLB	MAINTAIN IN PLACE 610", SAN. S. 6", T18D & 612" 1/2"
2/2/82	VD	REV PER REV # 6 AS-BJ-JT



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
ENGINEERS AND ARCHITECTS  
SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 02-2-77 APPROVED *[Signature]*

**ROCKVILLE ROUTE  
COMPOSITE UTILITIES  
BETHESDA STATION ENTRANCE**

SCALE: 1" = 20'

DRAWING NO. A11b-U-13 M276-34





ABBREVIATIONS

AC	ASBESTOS CEMENT DUCT OR CONDUIT
ACP	ASBESTOS CEMENT PIPE
AV	AIR VALVE
BR	BRICK
BKC	BRICK & CONCRETE
BO	BLOW-OFF
CB	CATCH BASIN OR DROP INLET
CC	CONCRETE CONDUIT
CIP	CAST IRON PIPE
CIPC	CAST IRON PIPE, CEMENT LINED
CMP	CORRUGATED METAL PIPE
COMB S	COMBINED SYSTEM SEWER
CONC	CONCRETE
CP	CONCRETE PIPE
CTU	CAR TRACKS, UNDERGROUND THIRD RAIL
CTT	CAR TRACKS, TROLLEY
CWP	CREOSOTED WOOD PIPE
CYL	CYLINDER PIPE, VITRIFIED CLAY
DI	DUCTILE IRON PIPE
DLM	DUCTILE IRON PIPE, CEMENT LINED & COATED, MECH. JOINT
DILMR	DUCTILE IRON PIPE, CEMENT LINED & COATED, MECH. JOINT RESTRAINED
DILP	DUCTILE IRON PIPE, CEMENT LINED & COATED, PUSH-ON JOINT
D	DUCT
E	ELECTRIC
EXIST	EXISTING
FA	FIRE ALARM
FD	FIBRE DUCT
FH	FIRE HYDRANT
FR	FRAME
G	GAS
GHP	GAS, HIGH PRESSURE
GHPW	GAS, HIGH PRESSURE, WRAPPED
KD	KORDUCT
MH	MANHOLE
MTD	MULTIPLE TILE DUCT OR CONDUIT
P	PEDESTRIAN SIGNAL

PM	PARKING METER
PCP	PRESTRESSED CONCRETE PIPE
PC	POLICE COMMUNICATIONS
PR	PEDESTRIAN & REGULATORY SIGNALS
PROP	PROPOSED
R	REGULATORY SIGNAL (NO LEFT TURN, ONE WAY)
RCP	REINFORCED CONCRETE PIPE
RCPR	REINFORCED CONCRETE PIPE, RUBBER JOINT
REC	RECORD
SAN S	SANITARY SEWER
SP	STEEL PIPE
SPW	STEEL PIPE, WRAPPED
SS	STORM SEWER
STM	STEAM LINE
STD	STANDARD
STY	STORY
TDL	TRAFFIC DETECTOR LOOP
T	TELEPHONE
TT	TRAFFIC TREADLE
VCP	VITRIFIED CLAY PIPE
VCPX	VITRIFIED CLAY PIPE - EXTRA STRENGTH
VCPXR	VITRIFIED CLAY PIPE - EXTRA STRENGTH RUBBER GASKET
W	WATER
WIP	WROUGHT IRON PIPE
WSLP	WELDED STEEL CEMENT LINED & COATED PIPE
WSP	WELDED STEEL PIPE
WU	WESTERN UNION
E	12-D MTD (4X3) ELECTRICAL, 12 WAY, MULTIPLE TITLE DUCT (4 WIDE X 3 HIGH)
SAN S	12" VCPXR SANITARY SEWER, EXTRA STRENGTH VITRIFIED CLAY PIPE, RUBBER GASKET.
COMB S	18" RCP COMBINED SEWER 18" REINFORCED CONCRETE PIPE

SYMBOLS

	EXISTING FACILITY
	EXISTING SEWERS 27" DIA. & LARGER
	EXISTING WATER MAINS 16" & LARGER
	MAINTAIN SERVICE & REPLACE
	MAINTAIN COMPLETE IN PLACE
	REMOVE & REPLACE
	FUTURE FACILITY (BY OTHERS)
	PROPOSED FACILITY
	PROPOSED SEWERS 27" DIA. & LARGER
	PROPOSED WATER MAINS 16" & LARGER
	EXPOSE & MAINTAIN EXISTING CABLES & REPLACE DUCTS & MANHOLES
	EXISTING CATCH BASINS & CONNECTIONS, STANDARD & ELONGATED
	PROPOSED CATCH BASINS & CONNECTIONS, STANDARD & ELONGATED
	EXISTING ALLEY BASINS & CONNECTIONS, SINGLE & DOUBLE
	PROPOSED ALLEY BASINS & CONNECTIONS, SINGLE & DOUBLE
	EXISTING ALLEY BASINS (DROP INLET) TO BE REMOVED & REPLACED
	SEWER MANHOLES, EXISTING & PROPOSED
	EXISTING SEWER MANHOLE - COVERED
	WATER VALVES, EXISTING & PROPOSED
	GAS VALVE
	TEMPORARY FACILITY
	UTILITY POLE - GUY POLE
	ELECTRIC - AERIAL
	TELEPHONE
	JOINT ELECTRIC AND TELEPHONE
	STREET LIGHT - WITH TRAFFIC LIGHT
	TRAFFIC LIGHT - PEDESTRIAN SIGNAL ON POLE, NO STREET LIGHT.
	STREET AND TRAFFIC LIGHT WITH PEDESTRIAN SIGNAL
	RELATORY SIGNALS (ONE WAY, NO LEFT TURN)
	COMBINATION OF SIGNALS
	LIGHT POLE - BRACKET TYPE, EXISTING & PROPOSED
	LIGHT POLE, EXISTING & PROPOSED
	TRAFFIC SIGNAL CONTROL PANEL EXISTING & PROPOSED
	POLICE COMMUNICATIONS & FIRE ALARM
	ABANDONED STREET CAR TRACK - 3RD RAIL
	ABANDONED STREET CAR TRACK - TROLLEY
	ABANDONED FACILITY
	EXISTING FACILITY TO BE ABANDONED
	EXISTING UTILITY MANHOLES SHOWING COMPANY NUMBER: C - SURFACE TO INSIDE TOP D - HEADROOM
	PROPOSED UTILITY MANHOLE
	PRIVATE VAULT
	CATHODIC TEST STATION
	TRAFFIC DETECTOR LOOP
	EXISTING TRAFFIC TREADLE
	EXISTING CATENARY POLE
	PARKING METER
	EXISTING TRAFFIC SIGN
	WATER METER
	FIRE HYDRANT & CONNECTION EXISTING & PROPOSED

NOTES

- FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN COMPILED FROM INFORMATION FURNISHED BY VARIOUS UTILITY OWNERS. ACCURACY AND COMPLETENESS IS NOT GUARANTEED.
- BUILDING SERVICE CONNECTIONS TO ABUTTING PROPERTIES GENERALLY ARE NOT SHOWN, BUT MUST BE MAINTAINED.
- SIZE OF VCP, CP & RCP SEWERS IS EXPRESSED IN INCHES, VIZ 12", 36" & 108". SIZE OF BR & BKC SEWERS IS EXPRESSED IN FEET & INCHES, VIZ 3'-0", 4'-6" & 5'-0".
- PRIOR TO ABOUT 1929, WHEN BELL & SPIGOT VCP WITH BITUMINOUS JOINTS WAS ADOPTED AS STANDARD, VCP SEWERS UTILIZED CYLINDRICAL PIPE (NO BELL & SPIGOT) WITH CONCRETE CRADLE AND CONCRETE COLLAR AROUND BUTT JOINTS OF PIPE.
- ELECTRIC MANHOLES DESIGNATED BY COMPANY NUMBERS 40 & ABOVE ARE GENERALLY NETWORK MANHOLES HOUSING ELECTRIC TRANSFORMERS ALL HAVE VENTILATING GRATE COVERS.
- THESE SYMBOLS AND ABBREVIATIONS HAVE BEEN ADOPTED FOR USE IN METRO DESIGNS AND MAY NOT BE IN COMPLETE AGREEMENT WITH THOSE NORMALLY UTILIZED BY INDIVIDUAL UTILITIES OR JURISDICTIONS.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
E A P	10-9-67				
DRAWN	10-23-67			12-30-68	ADDED DUCT ABBREVIATION 1
CHECKED				5-31-72	REVISED & ADDED NEW SYMBOLS 2
APPROVED				2-19-73	REVISED & ADDED SYMBOLS 3
				3/12/74	REVISED, DELETED & ADDED SYMBOLS 4



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DE LEUW, CATHAR & COMPANY  
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
GENERAL ARCHITECTURAL CONSULTANT

APPROVED \_\_\_\_\_

UTILITY STANDARD DRAWING  
ABBREVIATIONS, SYMBOLS & GENERAL NOTES  
SECTION NO. A11b

SCALE: NOT TO SCALE

DRAWING NO: ST-U-14 M276-32

COMPOSITE UTILITIES  
AFFECTED UTILITIES

U-2  
U-28  
U-37  
U-19

U-6  
U-26  
U-32  
U-18  
U-38

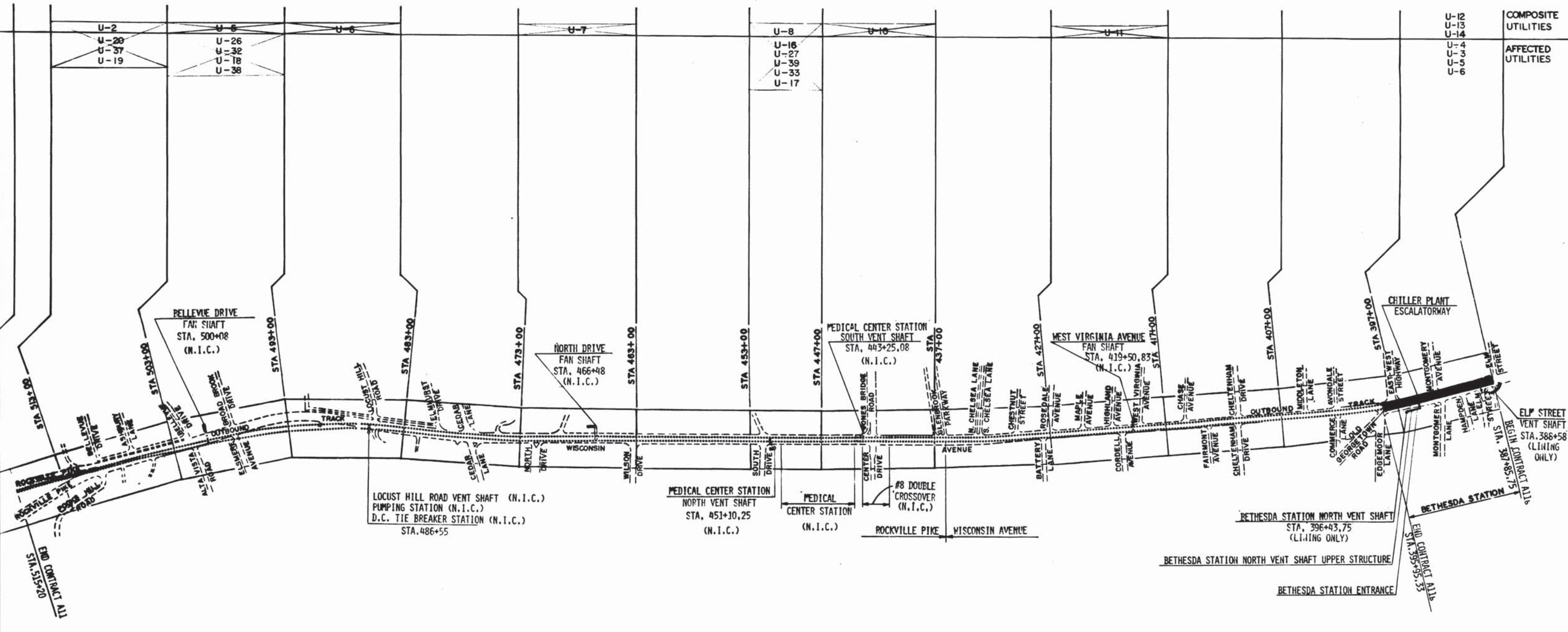
U-7

U-8  
U-16  
U-27  
U-39  
U-33  
U-17

U-10

U-11

U-12  
U-13  
U-14  
U-4  
U-3  
U-5  
U-6



LEGEND  
 — INCLUDED IN CONTRACT A11b  
 - - - - - NOT INCLUDED IN CONTRACT A11b

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
 HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANTS

DESIGNED	J.A.D. KEZLEY	2-3-79	DATE
DRAWN	J.A.D. KEZLEY	2-4-79	DATE
CHECKED	J.R.V. DICKSON	2-9-79	DATE
APPROVED	<i>[Signature]</i>	2-11-79	DATE

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

MATHEWS • CHATELAIN • BEALL  
 ENGINEERS AND ARCHITECTS  
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY  
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES  
 GENERAL ARCHITECTURAL CONSULTANTS

SUBMITTED *[Signature]* DATE 2-12-79 APPROVED *[Signature]*

**ROCKVILLE ROUTE**  
 KEY PLAN OF UTILITY DRAWINGS

SCALE: 1" = 400' feet

DRAWING NO. A11b-U-1 M276-31