

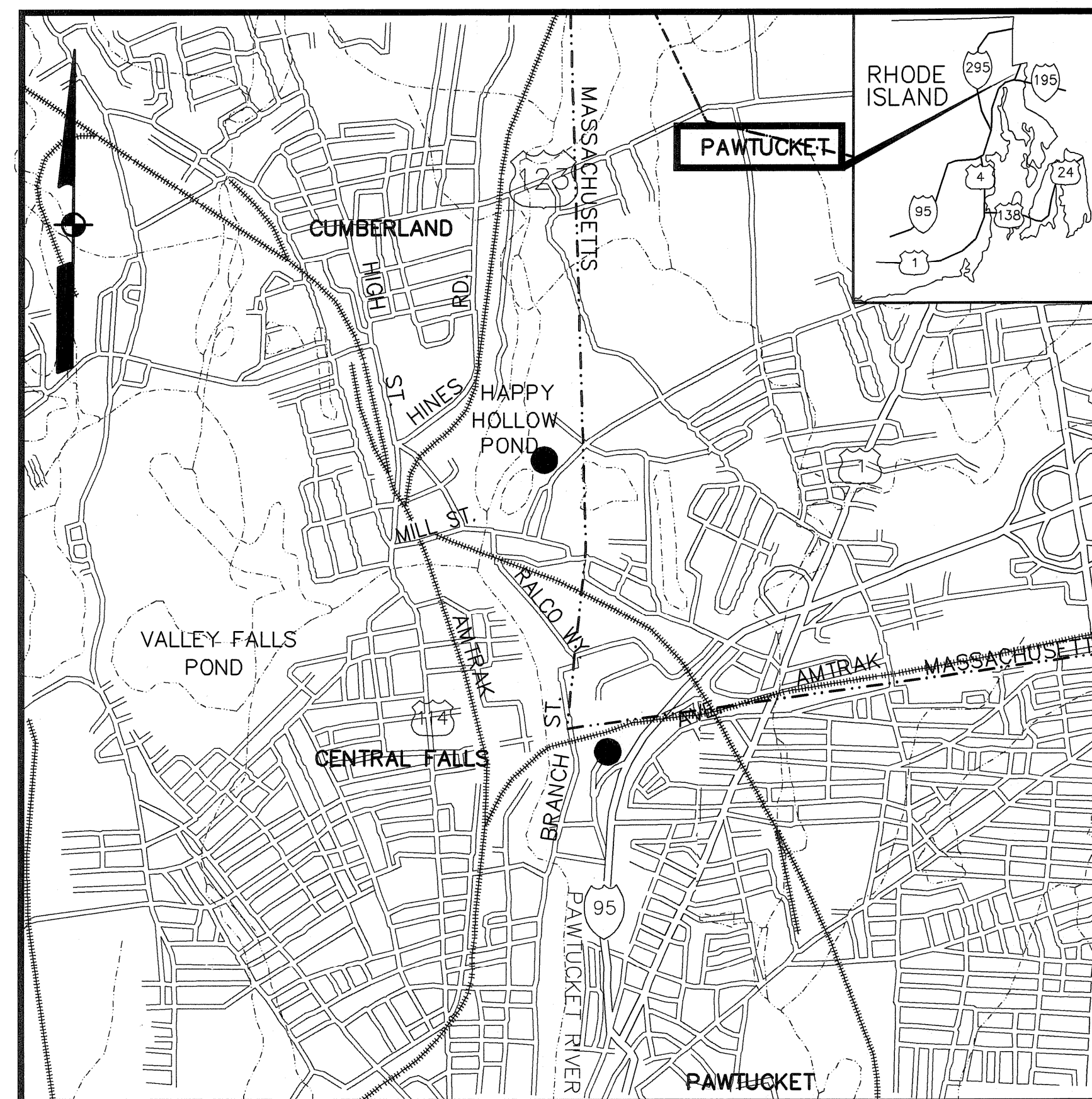
# CONTRACT DRAWINGS - FOR - Pawtucket Regional Water Treatment Facility Package 3 - Lower Level

Pawtucket, Rhode Island

INDEX

DWG.

TITLE



S-1  
S-2  
S-6  
S-7  
S-8  
S-9  
S-10

M-1  
M-2  
M-3  
M-4  
M-5  
M-6  
M-7  
M-8

FOR REFERENCE ONLY  
SEE PACKAGE 6

E-28 } FOR REFERENCE ONLY  
SEE PACKAGE 8

COVER

STRUCTURAL

BASEMENT LEVEL PLAN - EL. 40.50  
LOWER LEVEL PLAN - EL. 57.50  
SECTIONS AND DETAILS  
SECTIONS AND DETAILS  
SECTIONS AND DETAILS  
STRUCTURAL DETAILS AND NOTES  
SECTIONS AND DETAILS

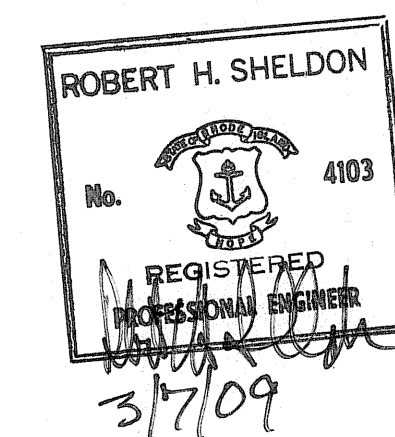
MECHANICAL

PLAN AT ELEVATION 40.50 (BASEMENT)  
PLAN AT ELEVATION 57.50 (LOWER LEVEL)  
PLAN AT ELEVATION 74.83 (UPPER LEVEL)  
PIPE GALLERY - PLANS AT ELEV. 52.00 AND 57.00  
PIPE GALLERY - PLANS AT ELEV. 52.00 AND 57.00  
SECTIONS AND DETAILS  
SECTIONS - PIPE GALLERY  
SECTIONS - PIPE GALLERY

ELECTRICAL

BUILDING GROUNDING AND LIGHTNING PROTECTION PLAN

LOCUS  
NOT TO SCALE



A Tyco International Ltd. Company

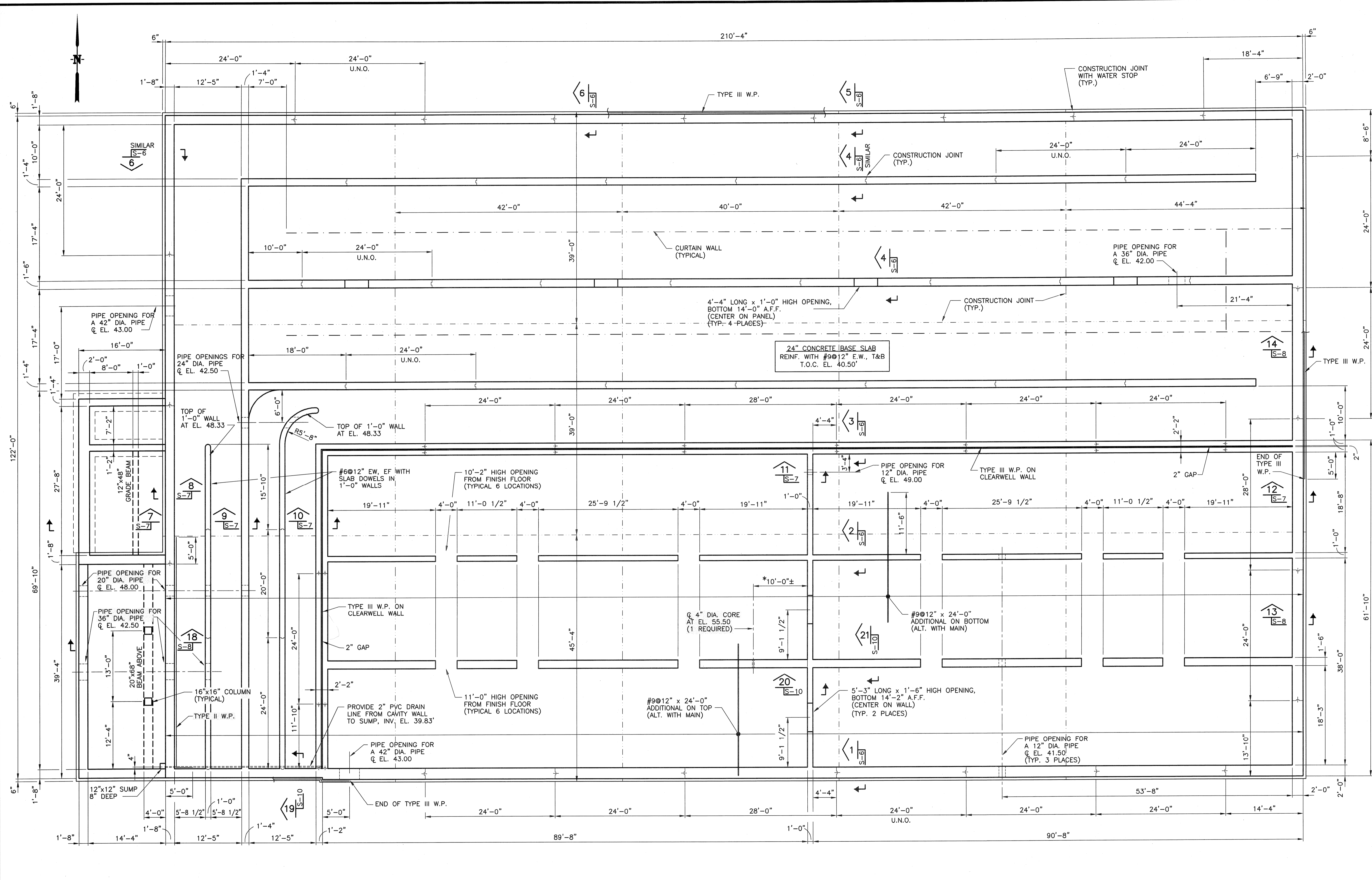
300 Baker Avenue Suite 290 Concord, Mass.

GENERAL NOTES

LOCATIONS OF ALL UTILITIES AND SUB-SURFACE STRUCTURES ARE FROM SURVEY AND RECORDS OF TOWN, CORPORATIONS, ETC., AND ARE CONSIDERED APPROXIMATE BOTH AS TO SIZE AND LOCATION AND ARE INDICATED ON THESE DRAWINGS TO GIVE BIDDERS A GENERAL IDEA OF EXISTING CONDITIONS TO BE INVESTIGATED BY THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT EACH BIDDER WILL NOT RELY UPON THESE DRAWINGS FOR SUCH INFORMATION, BUT THAT EACH BIDDER SHALL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE METHODS AND SHALL OBTAIN INFORMATION FROM UTILITY CORPORATIONS AND INDIVIDUALS AS TO THE LOCATION OF ALL SUB-SURFACE STRUCTURES.

ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.

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 Plot File Date Created: Aug/11/2008 1:19 PM



**BASEMENT LEVEL PLAN AT ELEVATION 40.50**  
 SCALE: 1/8" = 1'-0"

- NOTES:**
- ALL 1'-0" WALLS EXTENDING TO ELEVATION 48.33' TO BE REINFORCED WITH #6@12" EACH WAY, EACH FACE WITH DOWELS EXTENDING FROM BASE MAT.
  - NO ELECTRICAL CONDUITS TO BE EMBEDDED IN CONCRETE SLABS UNLESS NOTED OTHERWISE.

\*AVOID EXISTING REINFORCING STEEL.

**EARTH TECH**  
**AS-BUILT FILE**  
**JULY 2008**

**EarthTech**  
 A Tyco International Ltd. Company  
 300 BAKER AVENUE SUITE 390 CONCORD MA 01742 (978) 371-4000

NO.	REVISIONS	DATE
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1	ISSUED FOR RFI POSTED SET	10/21/06
0	ISSUED FOR CONSTRUCTION	4/05

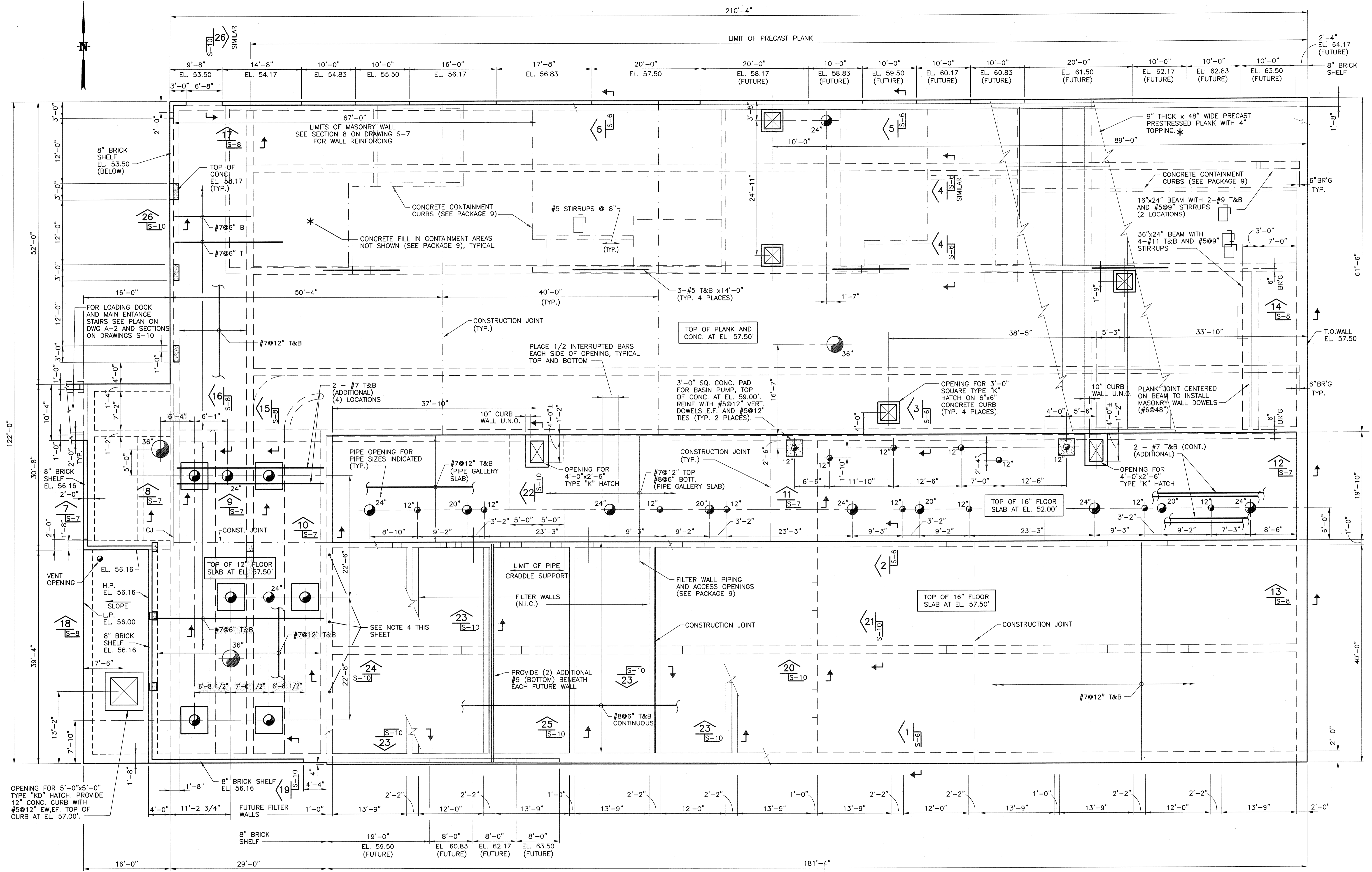
ROBERT H. SHELDON  
 No. 4103  
 Professional Engineer  
 State of Massachusetts  
 License No. 12177

PAWTUCKET, RHODE ISLAND  
**PAWTUCKET REGIONAL WATER TREATMENT FACILITY**  
**PKG 3 - LOWER CONCRETE**  
 BASEMENT LEVEL PLAN - EL. 40.50

DESIGNED BY	DWG SCALE
DRAWN BY	CONTRACT NO.
CHECKED BY	DATE
	OCTOBER 31, 2008

S-1  
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 Plot File Date Created: Aug/11/2008 1:20 PM



LOWER LEVEL PLAN AT ELEVATION 57.50  
 SCALE: 1/8" = 1'-0"

- NOTES:
- SEE DRAWING M-2 FOR LOCATION OF RECESSED VALVE OPERATOR BOXES IN FLOOR SLAB.
  - COORDINATE ALL PIPE OPENINGS THROUGH CONCRETE WALLS AND SLABS WITH MECHANICAL DRAWINGS FOR THE PROPER LOCATION OF APPROPRIATE WALLPIPE AND FLANGED SLEEVE FITTINGS.
  - FOR PIPE OPENINGS LESS THAN 12" DIA. SEE MECHANICAL DRAWINGS.
  - ACCESS OPENINGS SHOWN TO NOMINAL SIZE. ACTUAL SIZE TO SUIT HATCH MANUFACTURER.
  - PROVIDE ADDITIONAL DOWELS FOR CONCRETE COLUMNS WITHIN CONCRETE WALL, SEE DRAWING S-11 OF PACKAGE 9

- PROVIDE ADDITIONAL DOWELS FOR CONCRETE COLUMNS, SEE DRAWING S-11 OF PACKAGE 9.
- NO ELECTRICAL CONDUITS TO BE EMBEDDED IN CONCRETE SLABS UNLESS NOTED OTHERWISE.

\* - PLANK MANUFACTURER TO DESIGN TOPPING REINFORCING FOR COMPOSITE ACTION, SEE SPECIFICATIONS. SEE PACKAGE 9 FOR CONTAINMENT AREA CONCRETE FILL TO BE PLACED OVER TOPPING.

**EARTH TECH**  
 AS-BUILT FILE  
 JULY 2008

**EarthTech**  
 A Tyco International Ltd. Company  
 300 BAKER AVENUE SUITE 250 CONCORD MA 01742 (978) 371-4000

FULL SIZE DRAWING = 4"	REVISIONS
AS-BUILT DRAWING FILE 2	DATE
ISSUED FOR PER POSTED SET 1	R.D.
ISSUED FOR CONSTRUCTION	DATE
0	BR
NO.	DATE

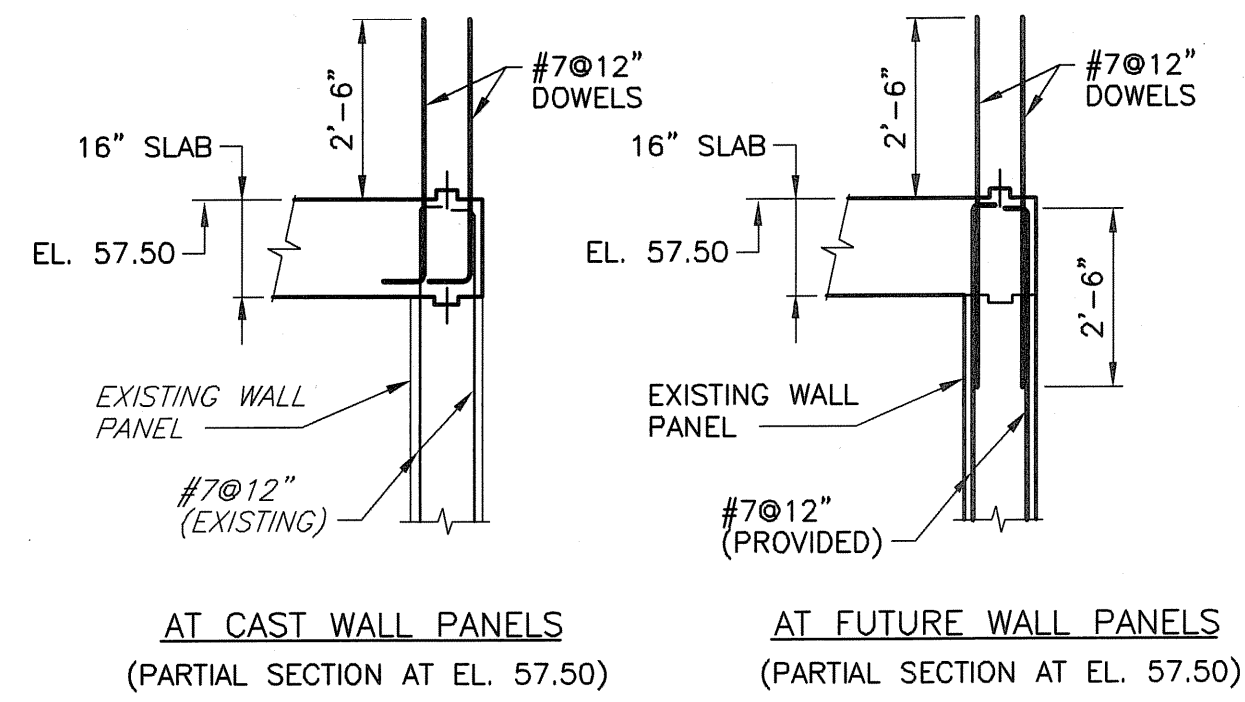
ROBERT H. SHELDON  
 No. 4883  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF MASSACHUSETTS  
 3/17/09

PAWTUCKET, RHODE ISLAND  
**PAWTUCKET REGIONAL  
 WATER TREATMENT FACILITY**  
**PKG 3 - LOWER CONCRETE**  
 LOWER LEVEL PLAN - EL. 57.50

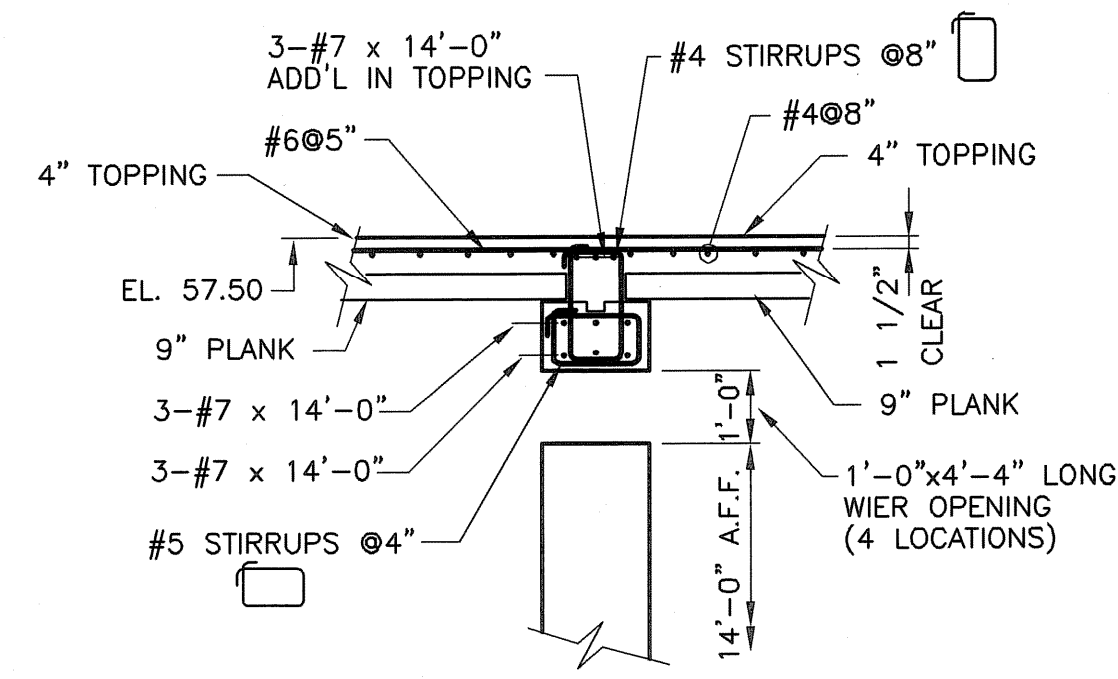
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DRAWN BY	CONTRACT NO
CHECKED BY	DATE
	OCTOBER 31, 2008

S-2

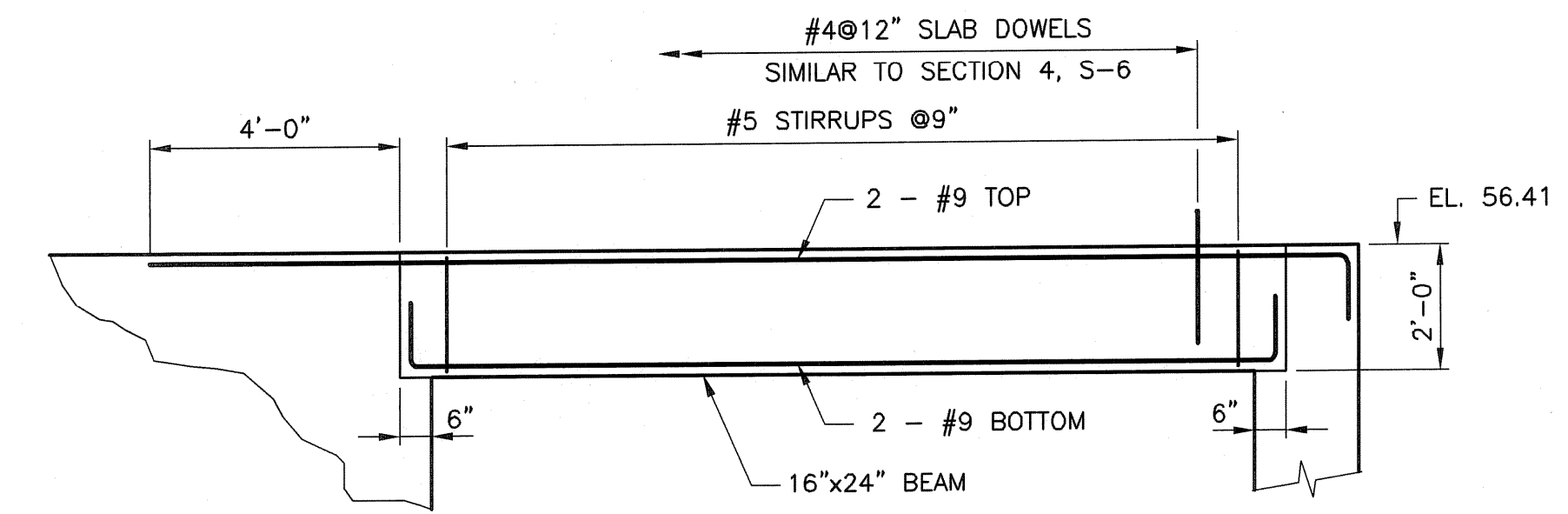
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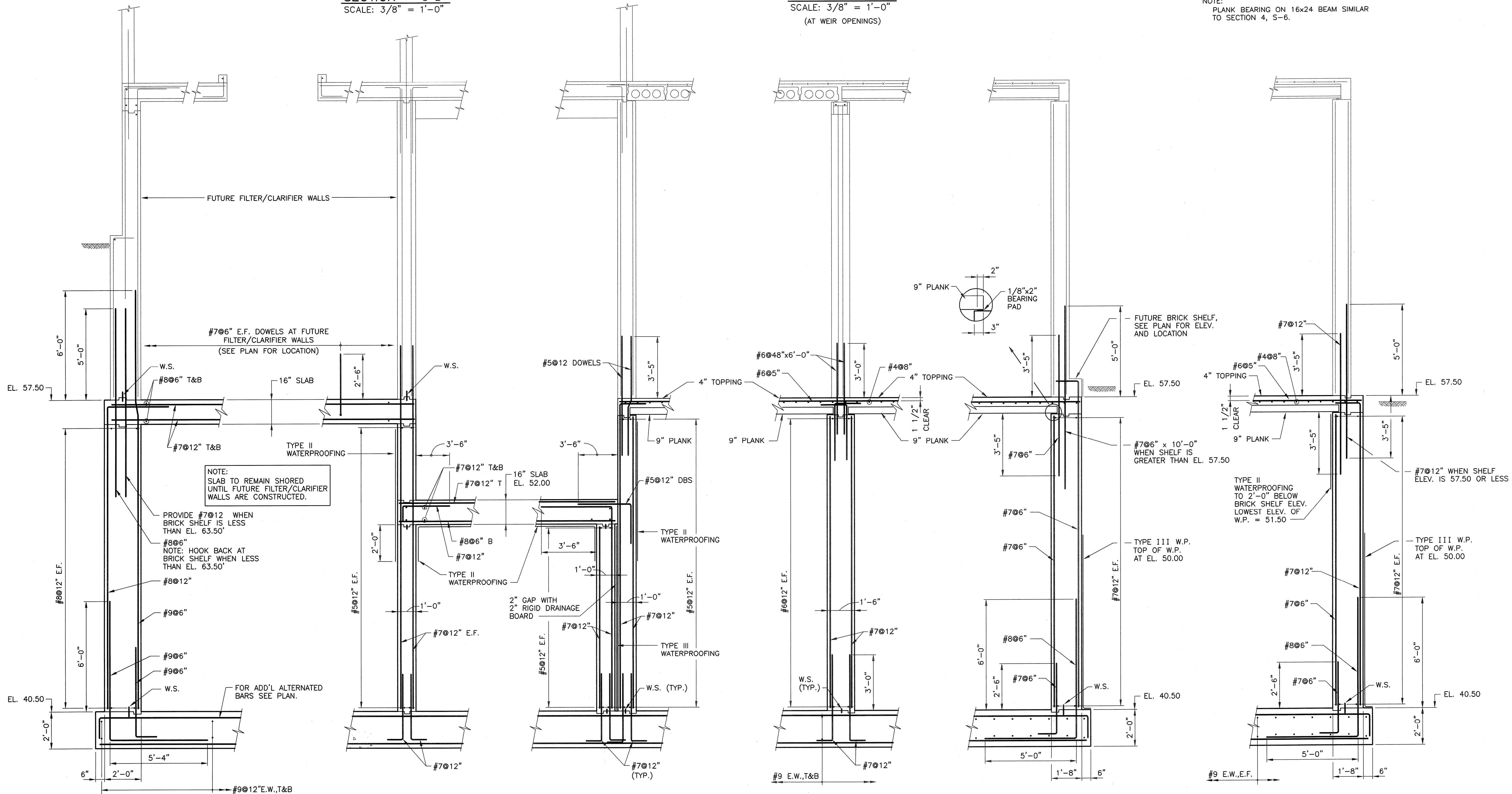
SECTION  $\frac{2}{S-2}$   
SCALE: 3/8" = 1'-0"



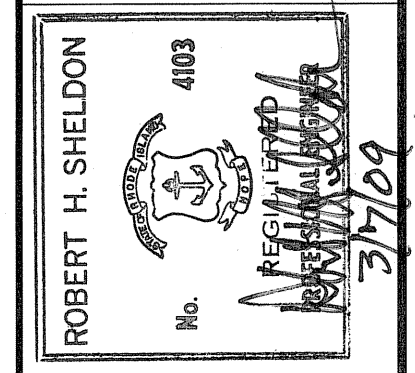
SECTION  $\frac{4}{S-2}$   
SCALE: 3/8" = 1'-0"  
(AT WEIR OPENINGS)



BEAM ELEVATION (TWO LOCATIONS)  
(NE CORNER OF DRAWING S-2)  
(16x24)



NO.	BY	DATE	REVISIONS
2	DPB	JULY 2008	AS-BUILT DRAWING FILE
1	RD	10/31/06	ISSUED FOR RFI POSTED SET
0	RD	4/05	ISSUED FOR CONSTRUCTION



PAWTUCKET, RHODE ISLAND  
PAWTUCKET REGIONAL  
WATER TREATMENT FACILITY  
PKG 3 - LOWER CONCRETE  
SECTIONS AND DETAILS

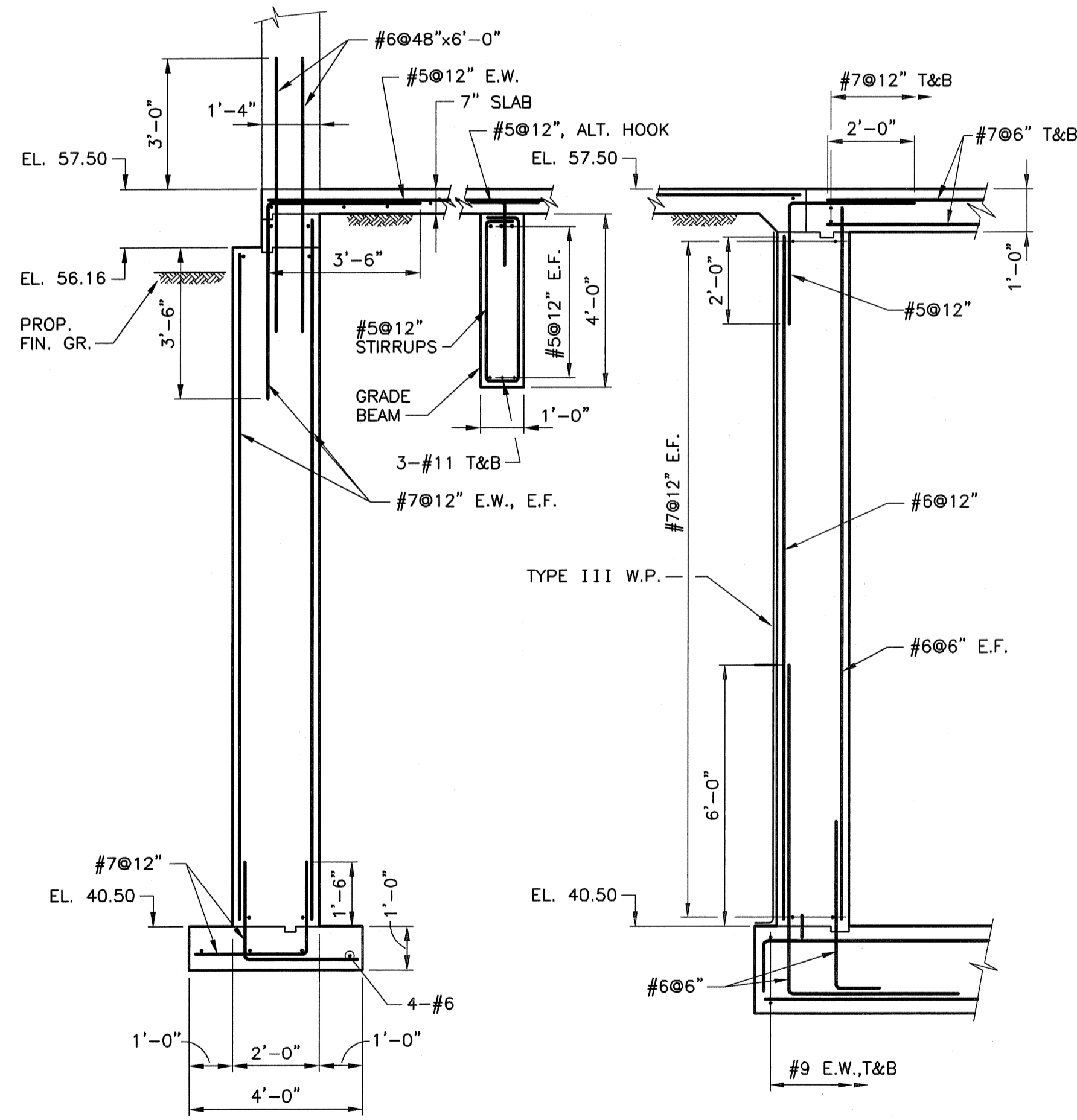
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	OCTOBER 31, 2008

EARTH TECH  
AS-BUILT FILE  
JULY 2008

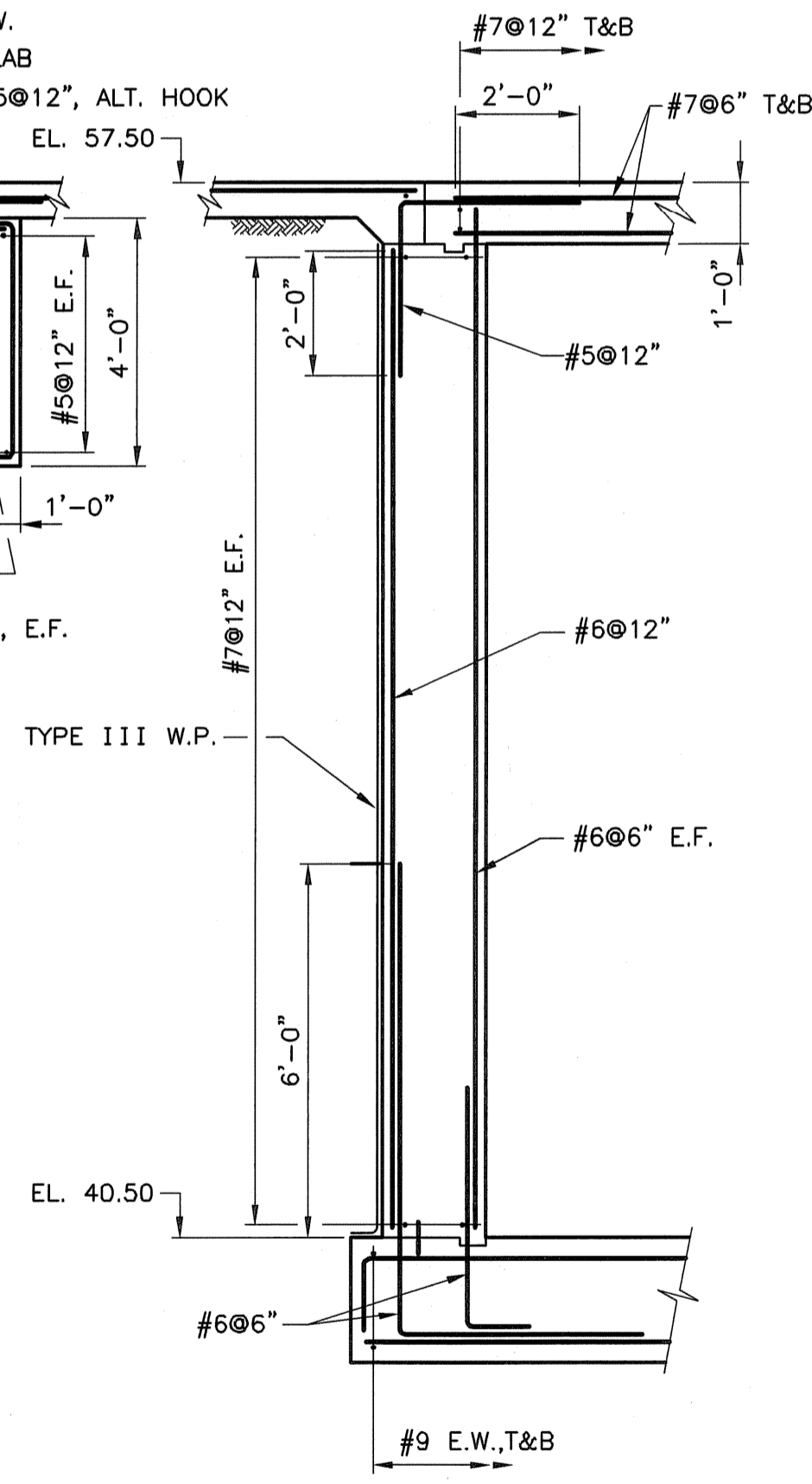
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SHEET OF

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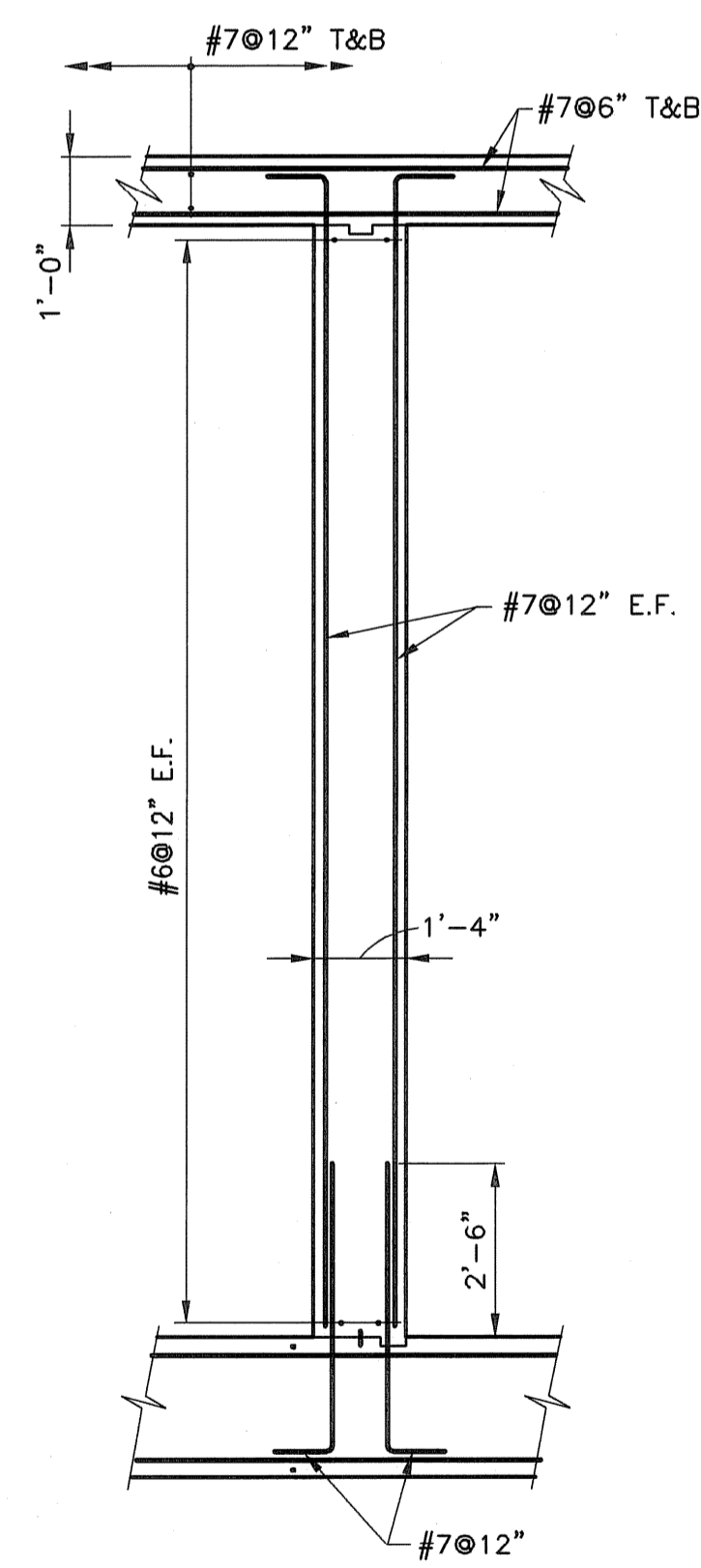
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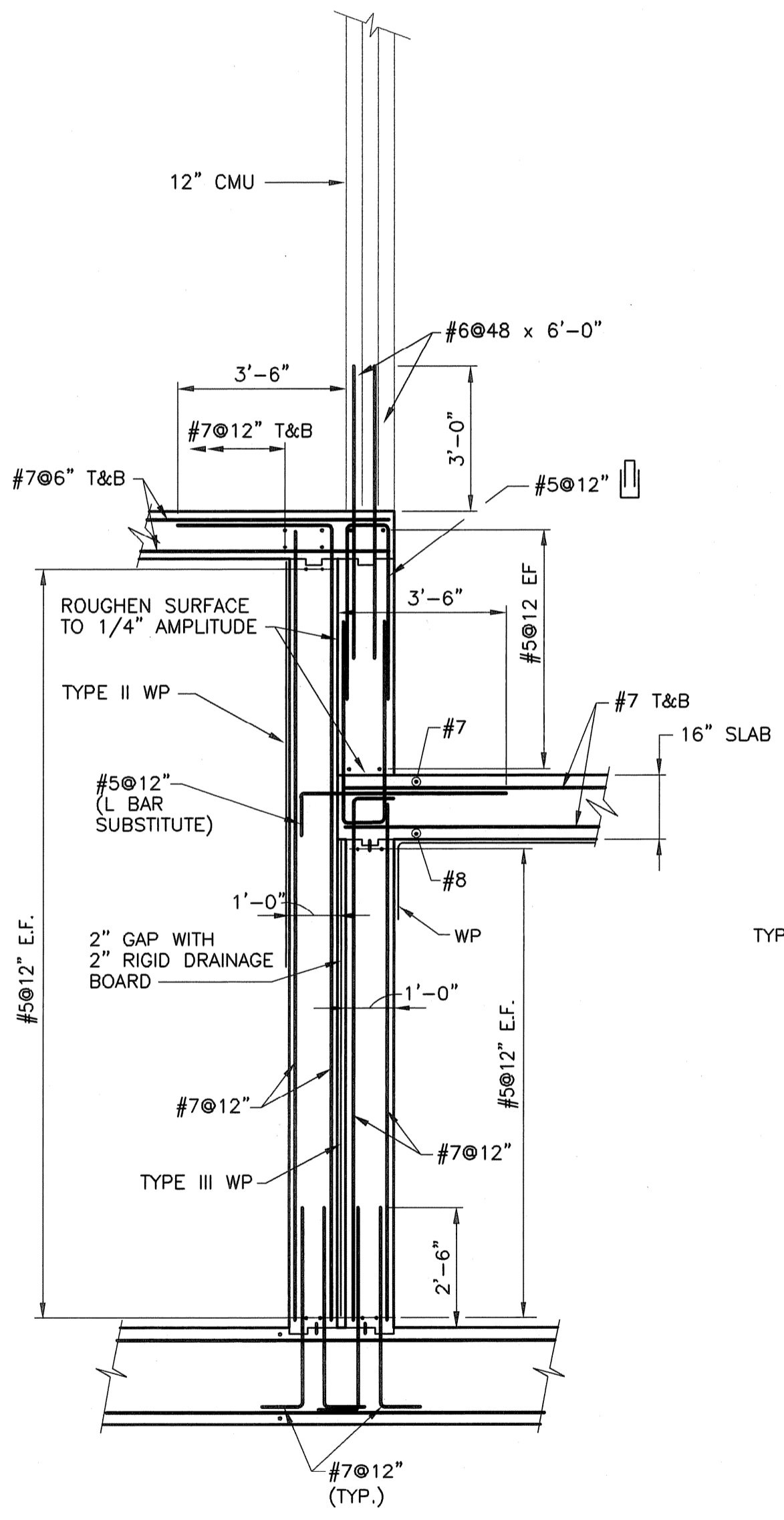
SECTION  $\frac{7}{S-7}$   
 SCALE:  $\frac{3}{8}'' = 1'-0''$



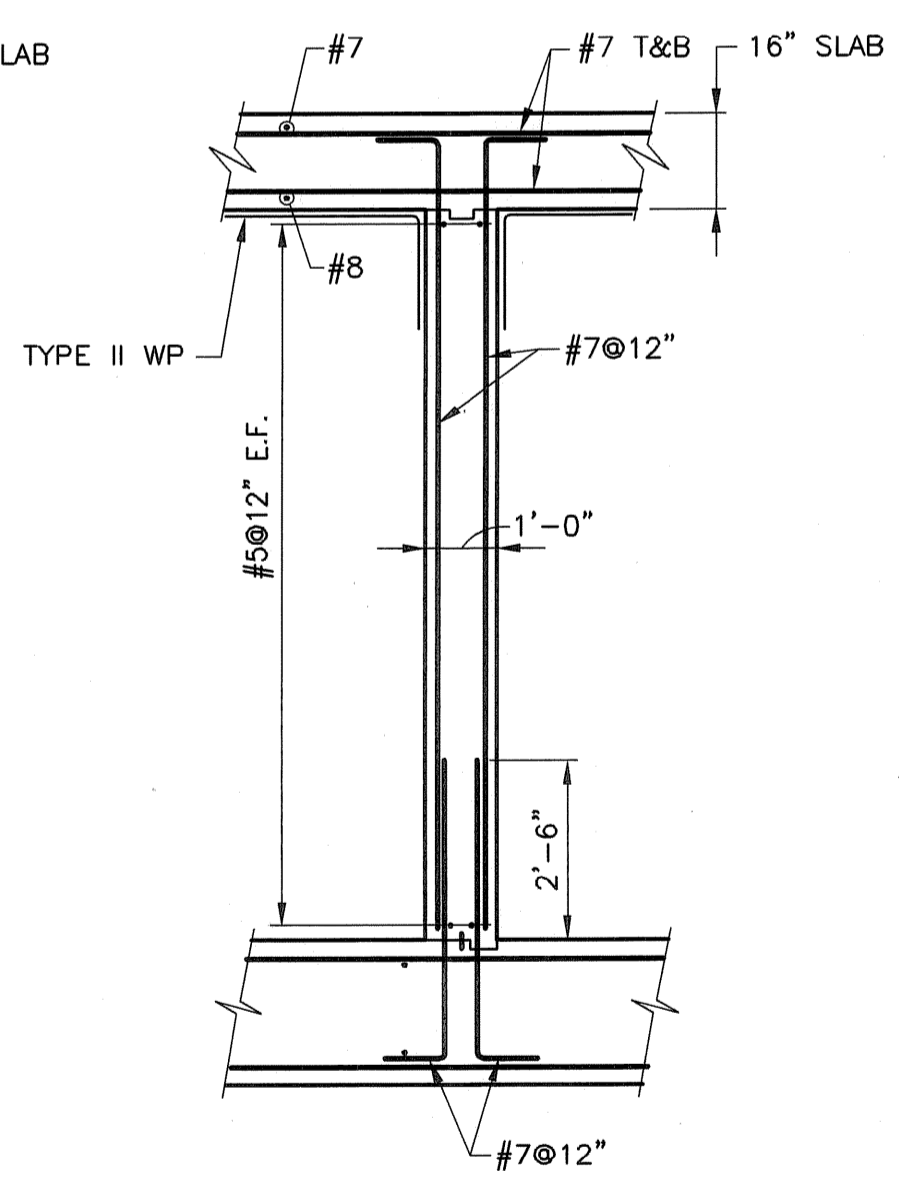
SECTION  $\frac{8}{S-7}$   
 SCALE:  $\frac{3}{8}'' = 1'-0''$



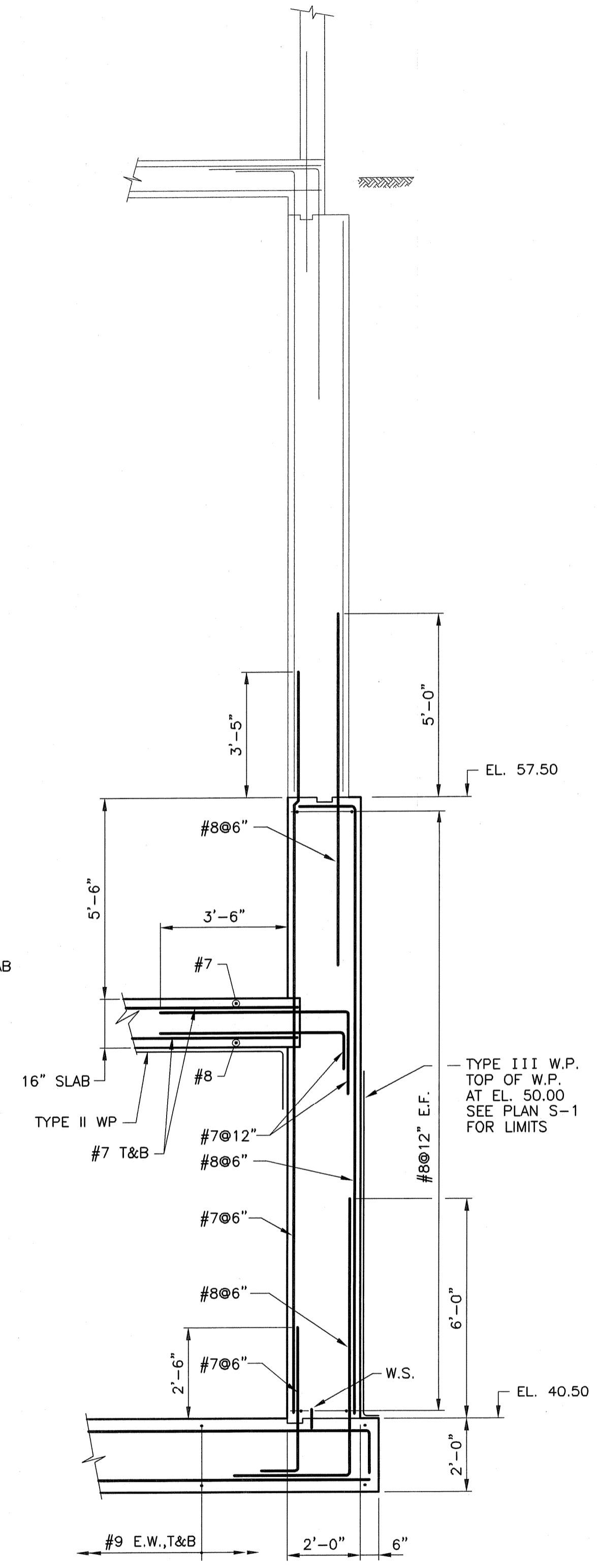
SECTION  $\frac{9}{S-7}$   
 SCALE:  $\frac{3}{8}'' = 1'-0''$



SECTION  $\frac{10}{S-7}$   
 SCALE:  $\frac{3}{8}'' = 1'-0''$



SECTION  $\frac{11}{S-7}$   
 SCALE:  $\frac{3}{8}'' = 1'-0''$



SECTION  $\frac{12}{S-7}$   
 SCALE:  $\frac{3}{8}'' = 1'-0''$

FULL SIZE DRAWING = 4"	
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1	ISSUED FOR RFI POSTED SET
2	AS-BUILT DRAWING FILE
DATE	BY
4/05	ED.
10/31/06	NO.
JULY 2008	DPB

ROBERT H. SHELDON  
 No. 4103  
 5/10/09

PAWTUCKET, RHODE ISLAND  
 PAWTUCKET REGIONAL  
 WATER TREATMENT FACILITY  
 PKG 3 - LOWER CONCRETE  
 SECTIONS AND DETAILS

DESIGNED BY	DPB	DWG SCALE	$\frac{3}{8}'' = 1'-0''$
DRAWN BY	DPB	CONTRACT NO.	
CHECKED BY		DATE	OCTOBER 31, 2008

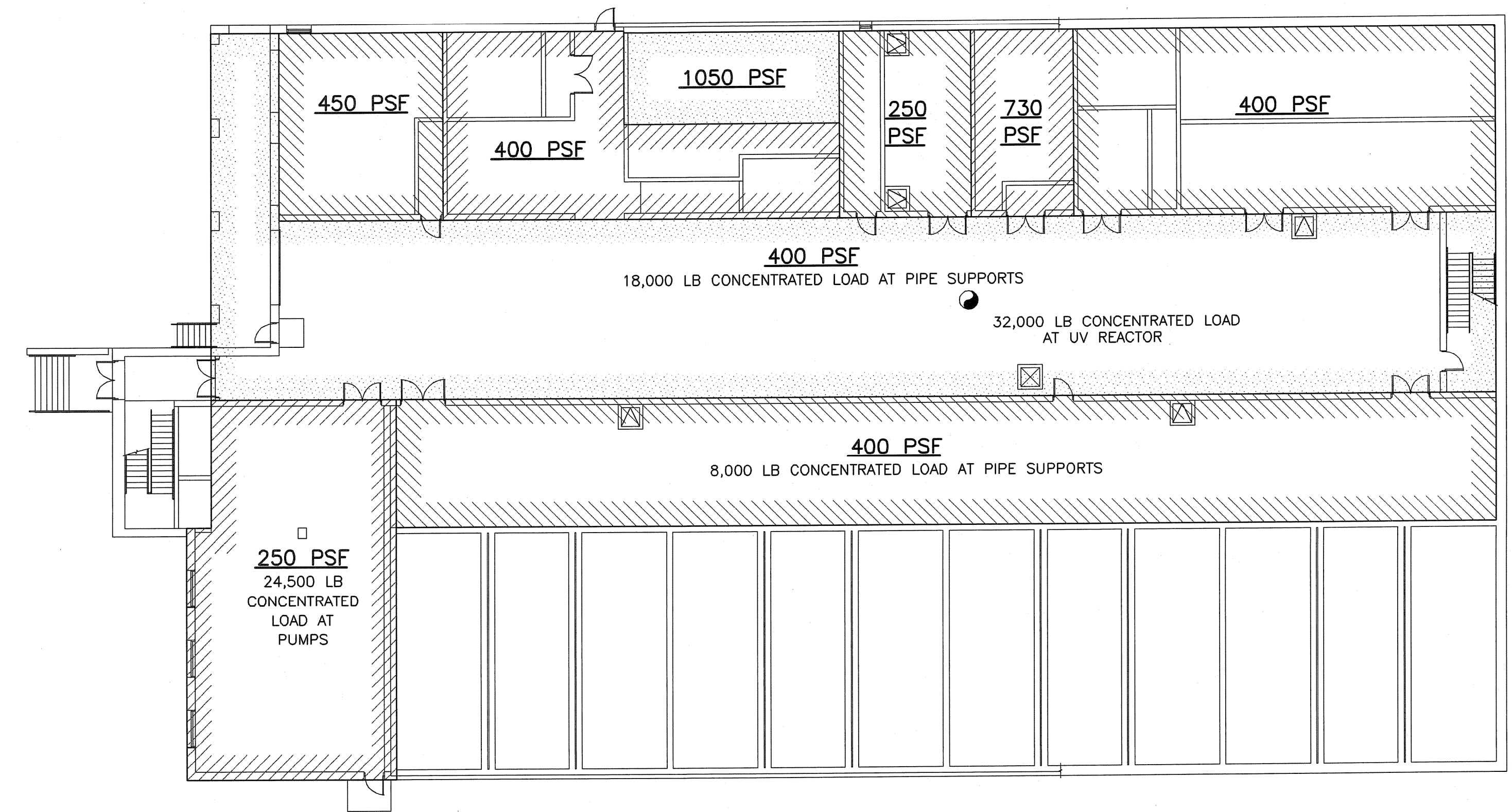
EARTH TECH  
 AS-BUILT FILE  
 JULY 2008

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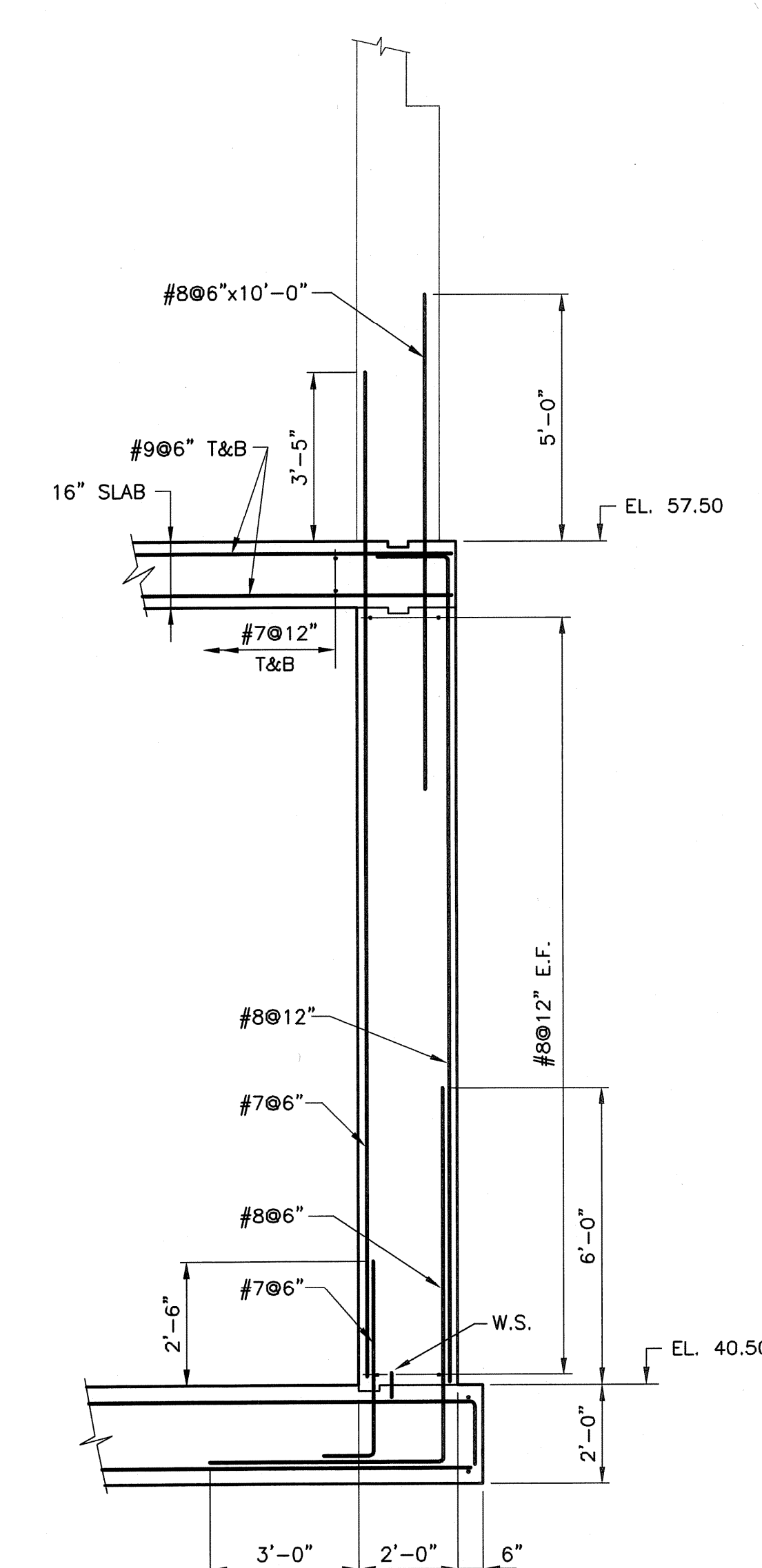
ROBERT H. SHELDON  
No. 4103  
Professional Engineer  
State of Massachusetts  
No. 11110

PAWTUCKET, RHODE ISLAND  
**PAWTUCKET REGIONAL  
WATER TREATMENT FACILITY**  
**PKG 3 - LOWER CONCRETE**  
SECTIONS AND DETAILS

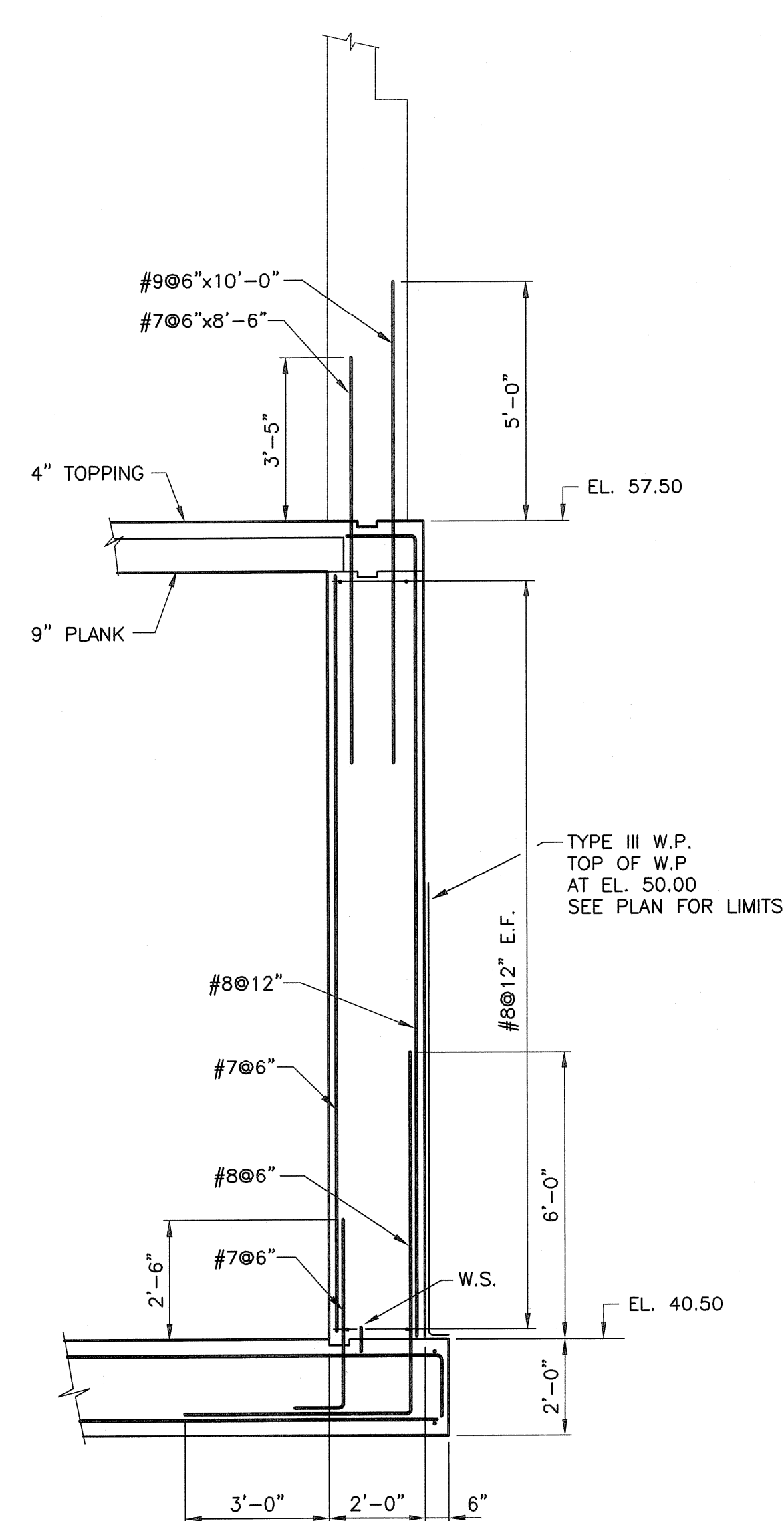
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CHECKED BY	CONTRACT NO.
	DATE
	OCTOBER 31, 2006



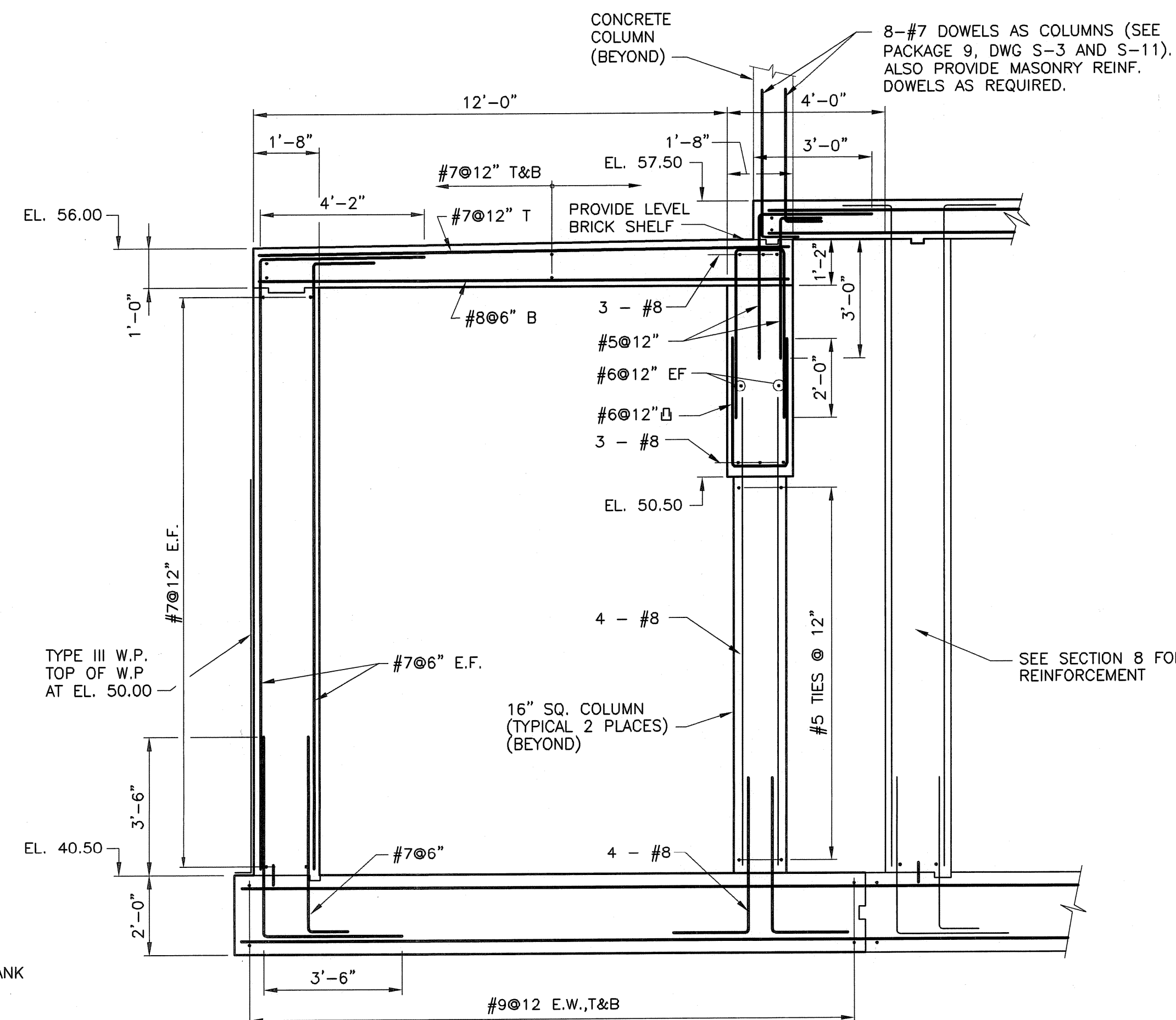
DESIGN LIVE LOAD DIAGRAM AT FLOOR EL. 57.50  
SCALE: 1/16" = 1'-0"



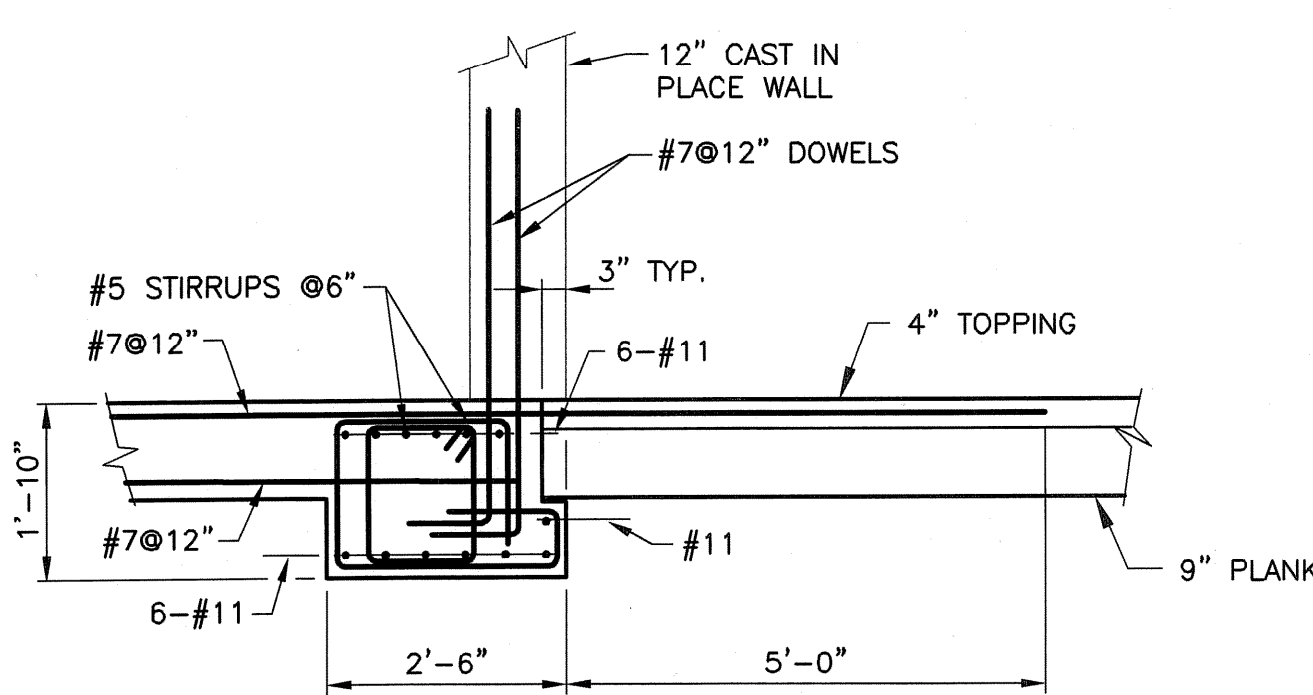
SECTION 13  
S-2  
SCALE: 3/8" = 1'-0"



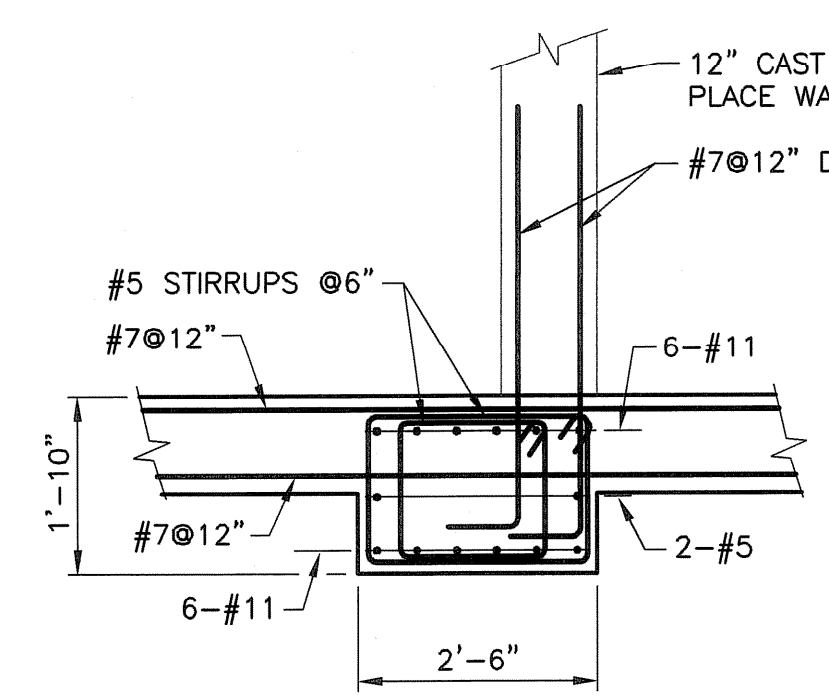
SECTION 14  
S-2  
SCALE: 3/8" = 1'-0"



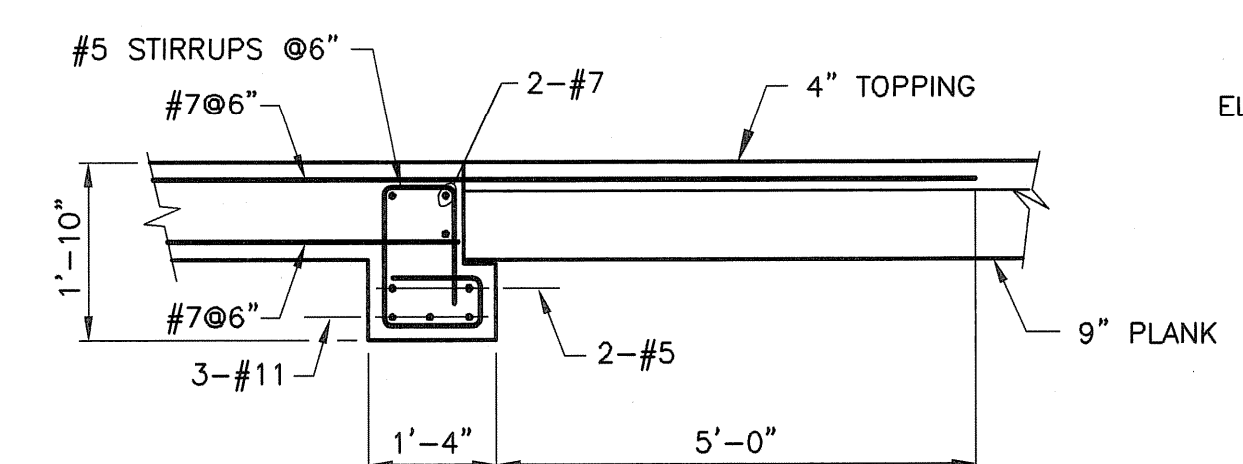
SECTION 18  
S-2  
SCALE: 3/8" = 1'-0"



SECTION 15  
S-2  
SCALE: 1/2" = 1'-0"



SECTION 16  
S-2  
SCALE: 1/2" = 1'-0"



SECTION 17  
S-2  
SCALE: 1/2" = 1'-0"

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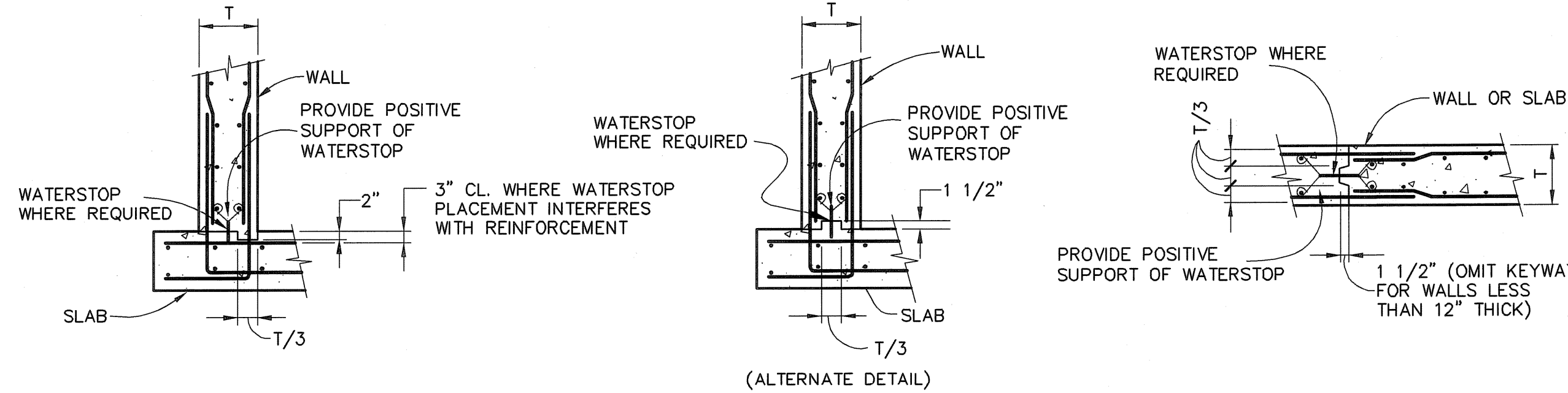
**EARTH TECH**  
AS-BUILT FILE  
JULY 2008

CONCRETE PROTECTION FOR REINFORCEMENT(A)				
MEMBER	EXPOSED TO			
	AIR	WEATHER & AIR OVER LIQUID	EARTH & LIQUID	SALT WATER
FOOTING	—	—	2"(B)	4"
WALL COLUMN BEAM	1 1/2"	2"	2"(B)	3"(B)
SLAB	TOP	1 1/2"(C)	2"	3"
	BOTTOM	3/4"(D)	2"	3"(B)

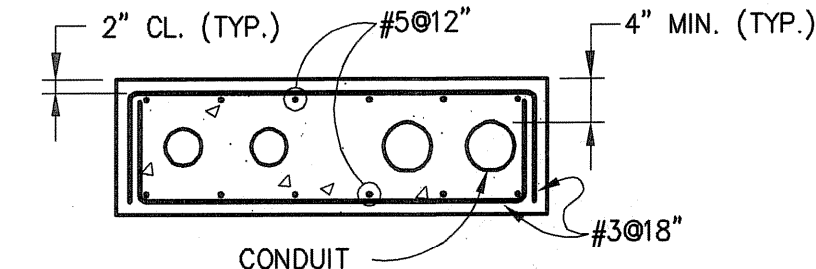
MINIMUM RE-BAR SPLICE LENGTHS (in.)*		
BAR SIZE	TOP BARS**	OTHER BARS
4	20	16
5	24	18
6	26	20
7	39	30
8	46	35
9	52	40
10	57	44
11	64	49

\* THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE, UNCOATED BARS, CLEAR SPACING NOT LESS THAN FOUR BAR DIAMETERS, AND CLEAR COVER NOT LESS THAN TWO BAR DIAMETERS.  
 \*\* WHERE SPACING BETWEEN BARS IS LESS THAN FOUR BAR DIAMETERS, OR CLEAR COVER IS LESS THAN TWO BAR DIAMETERS, INCREASE SPLICE LENGTHS SHOWN BY 67%.  
 HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS AS DEFINED BY A.C.I. 318-95.

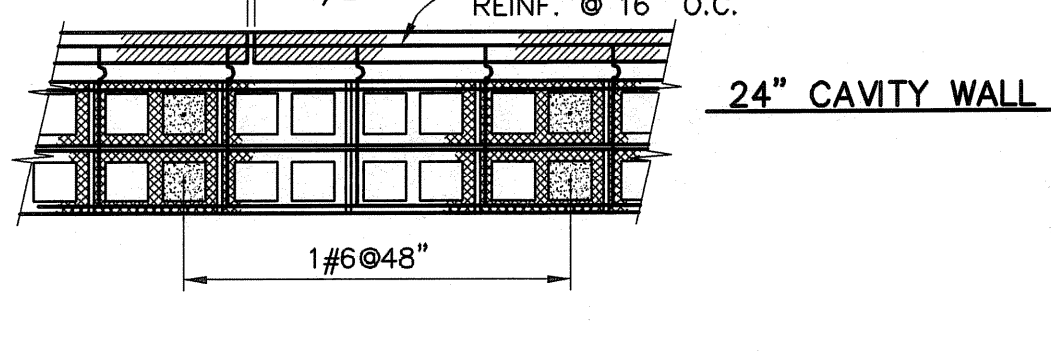
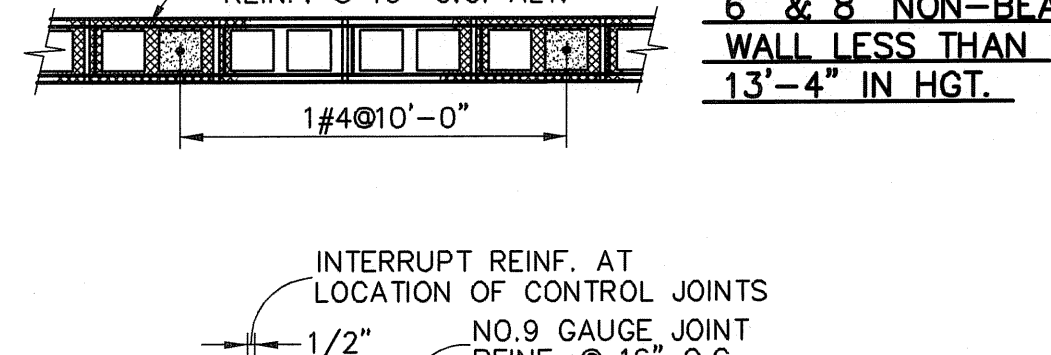
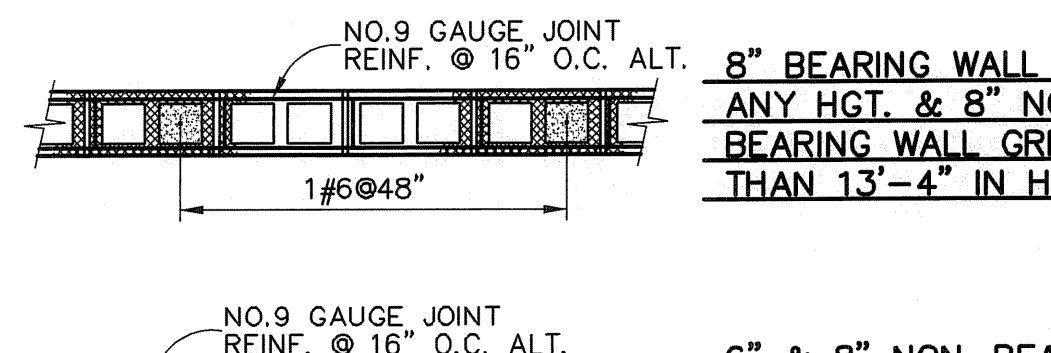
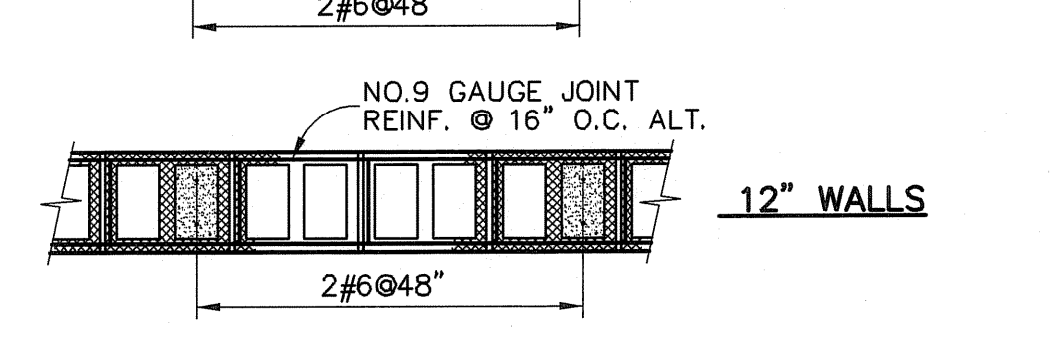
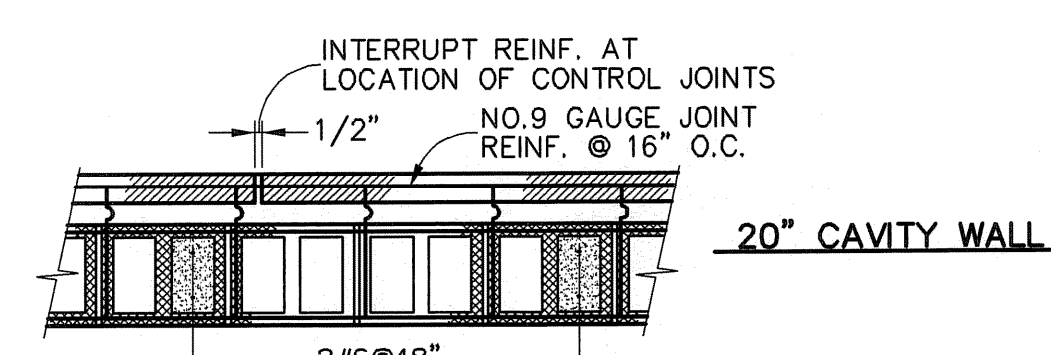
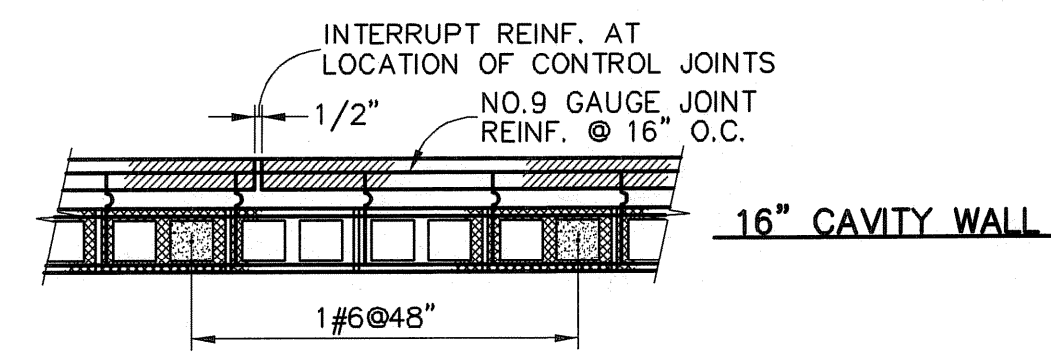
- (A) APPLICABLE TO ALL CAST-IN-PLACE CONCRETE, EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.  
 (B) INCREASE 1" WHEN CAST AGAINST EARTH.  
 (C) 3/4" WHEN MEMBRANE OR WEARING SURFACE USED,  
 (D) 1 1/2" WHERE REQ'D TO CLEAR WATERSTOP.



CONSTRUCTION JOINT DETAILS (UNLESS OTHERWISE NOTED)

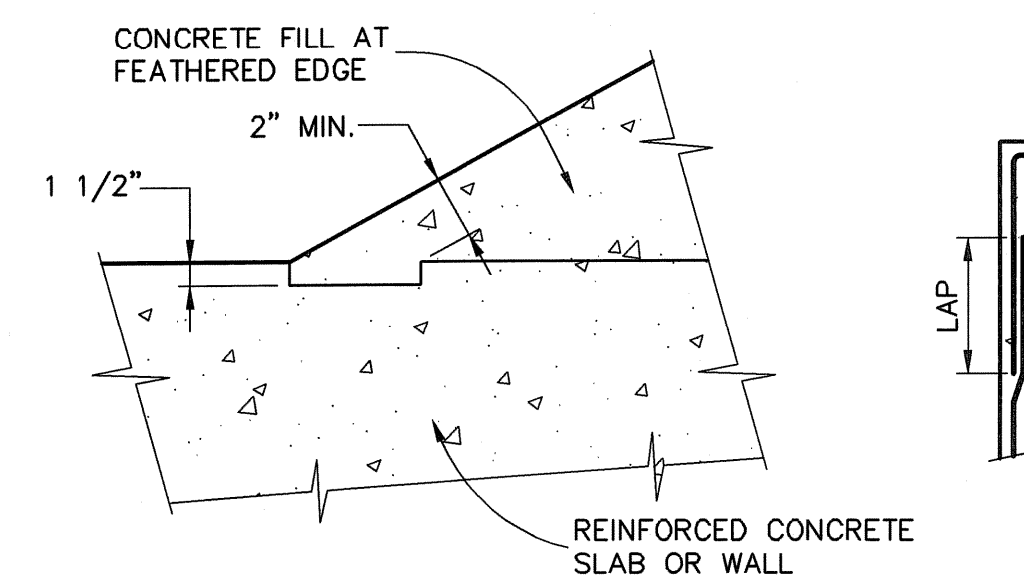


TYPICAL DUCTBANK REINFORCING DETAIL FOR SIZE OF DUCTBANK AND CONDUITS SEE ELECTRICAL DRAWINGS

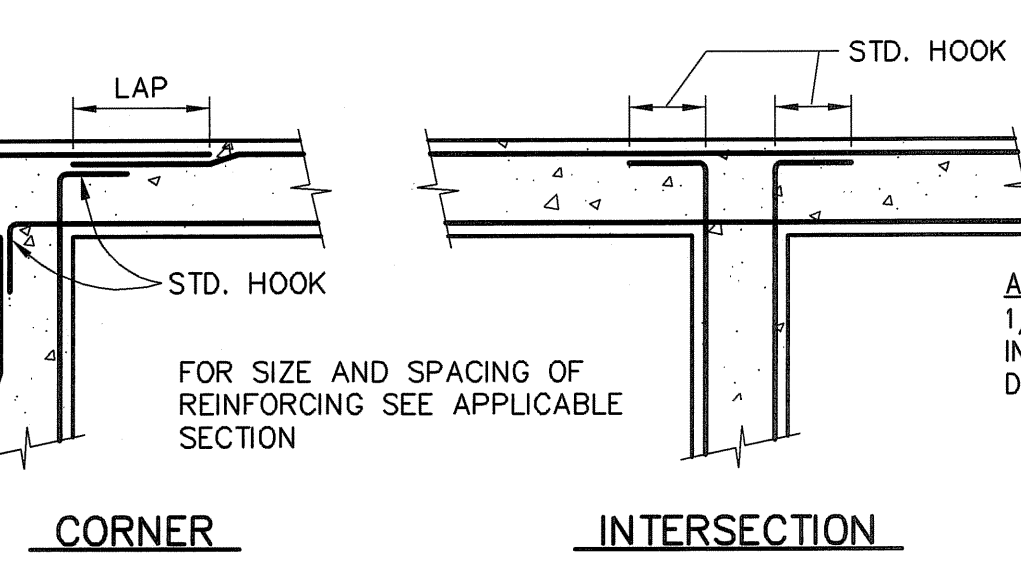


TYPICAL MASONRY REINFORCING DETAILS (NOT TO SCALE)

- NOTES:  
 1. VERTICAL REINFORCING SHALL BE LAID OUT SUCH THAT EACH SIDE OF OPENINGS, CORNERS, INTERSECTIONS AND ENDS OF WALLS ARE REINFORCED.  
 2. VERTICAL REINFORCING AT SIDE OF OPENINGS SHALL BE CONTINUOUS THROUGH LINTELS.  
 3. PROVIDE 2-#5 HORZ. BARS AT TOP AND BOTTOM OF OP'NGS (EXTEND 25" PAST FACE OF OP'NG), AND AT KNOCK-OUT BLOCK BOND BEAM AT TOP OF WALL.

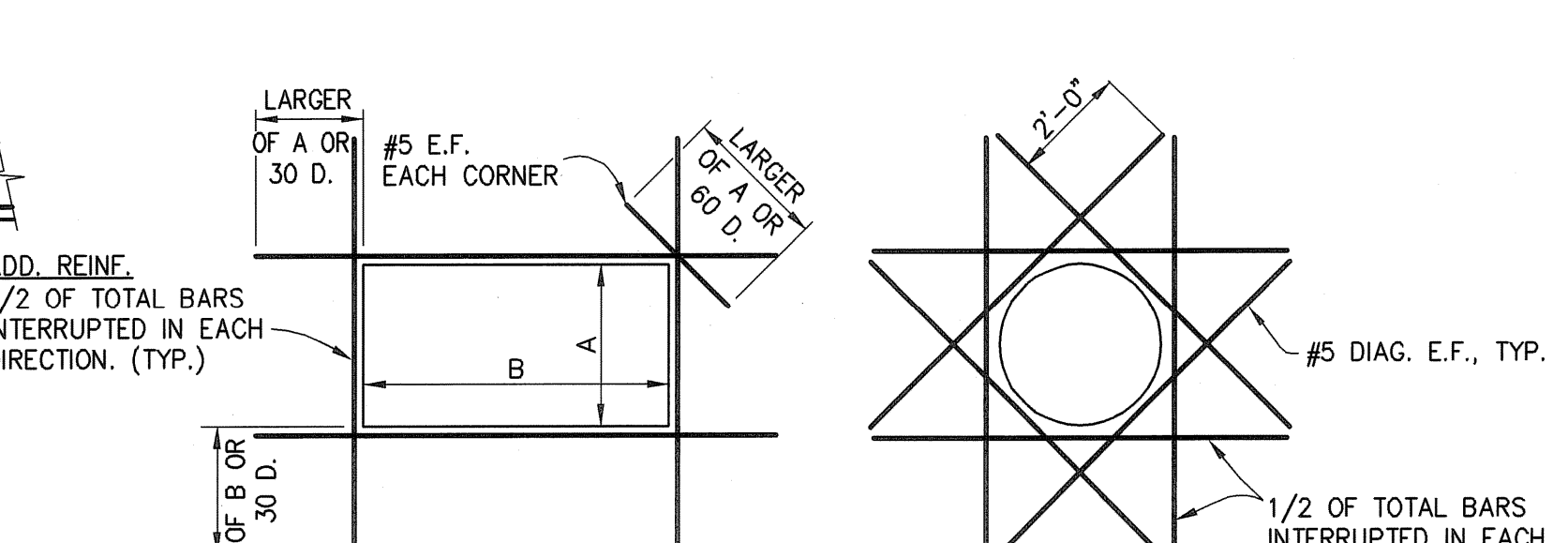


CONCRETE FILL AT SLAB OR WALL DETAIL

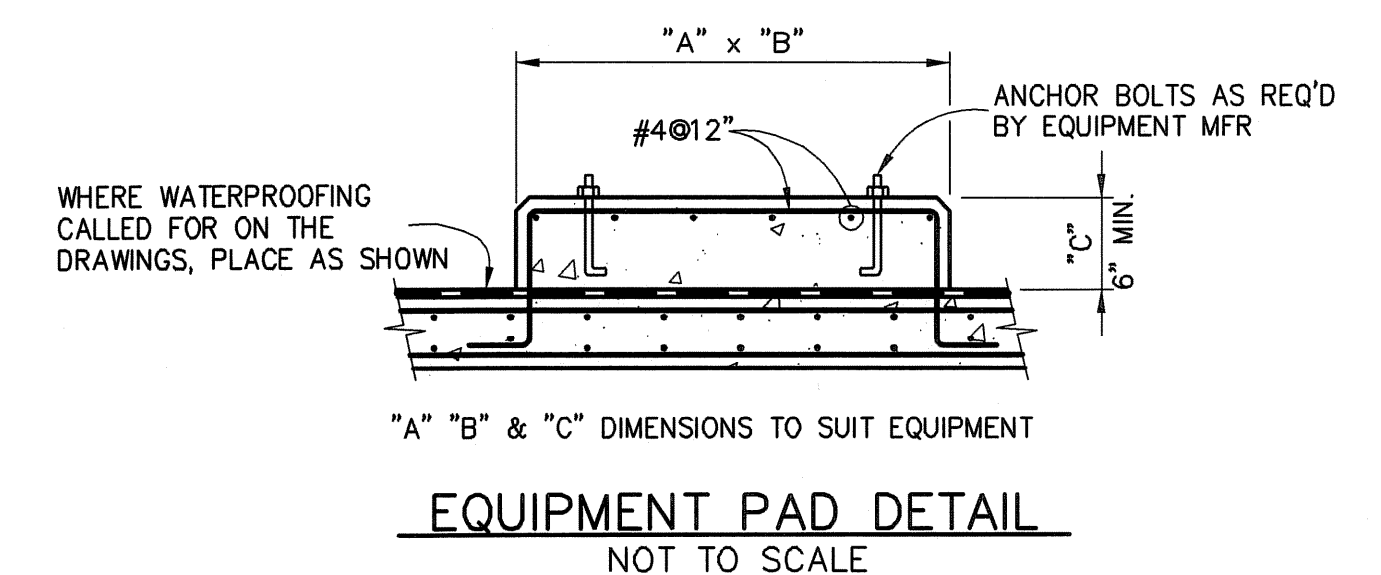


WALL REINFORCING DETAILS (UNLESS OTHERWISE NOTED)

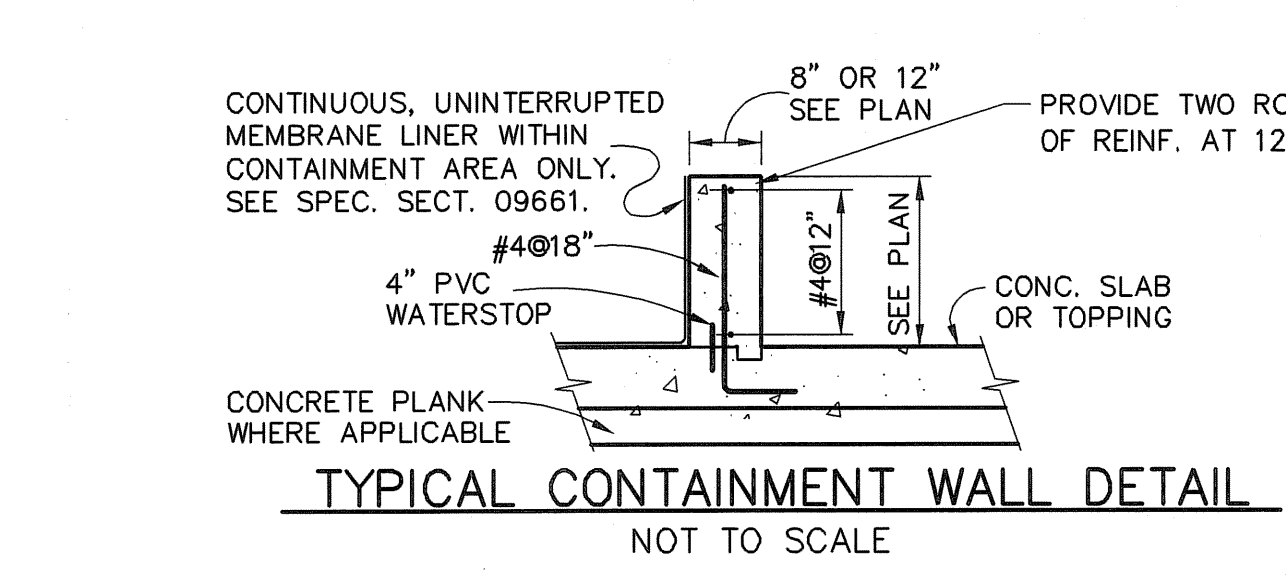
NOTE: VERTICAL REINFORCING NOT SHOWN.



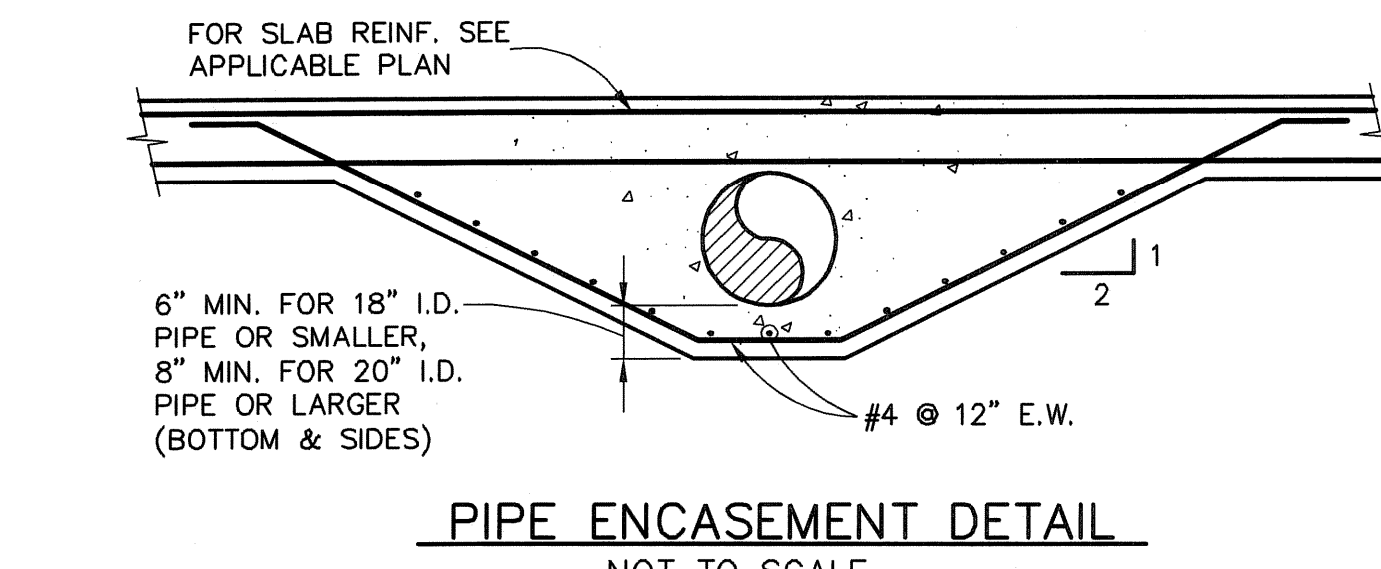
ADDITIONAL REINFORCING AROUND OPENINGS GREATER THAN 1'-0" (UNLESS OTHERWISE NOTED)



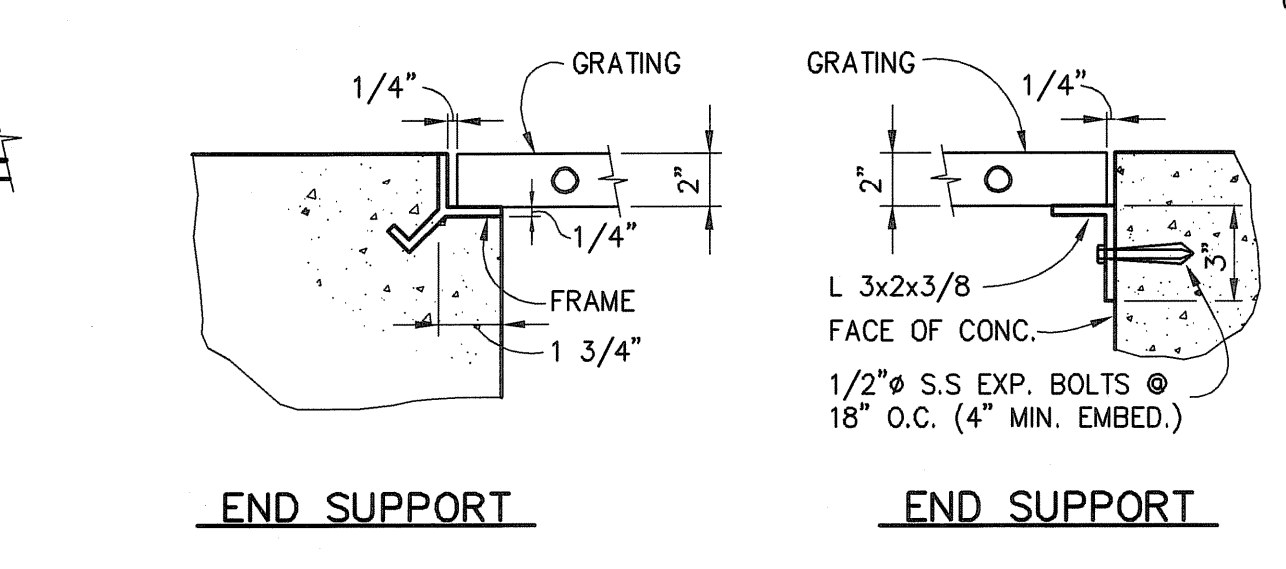
EQUIPMENT PAD DETAIL (NOT TO SCALE)



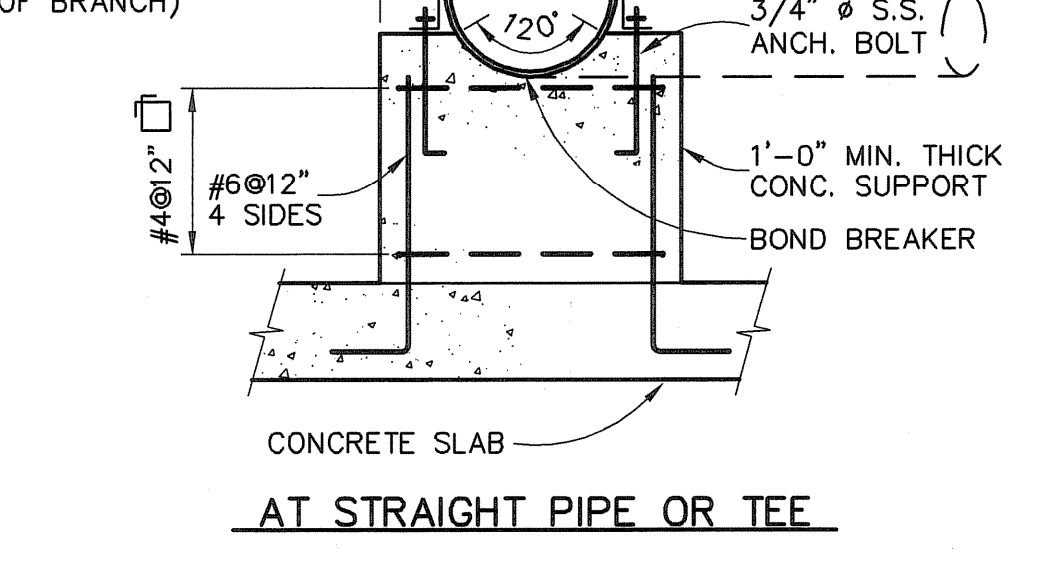
TYPICAL CONTAINMENT WALL DETAIL (NOT TO SCALE)



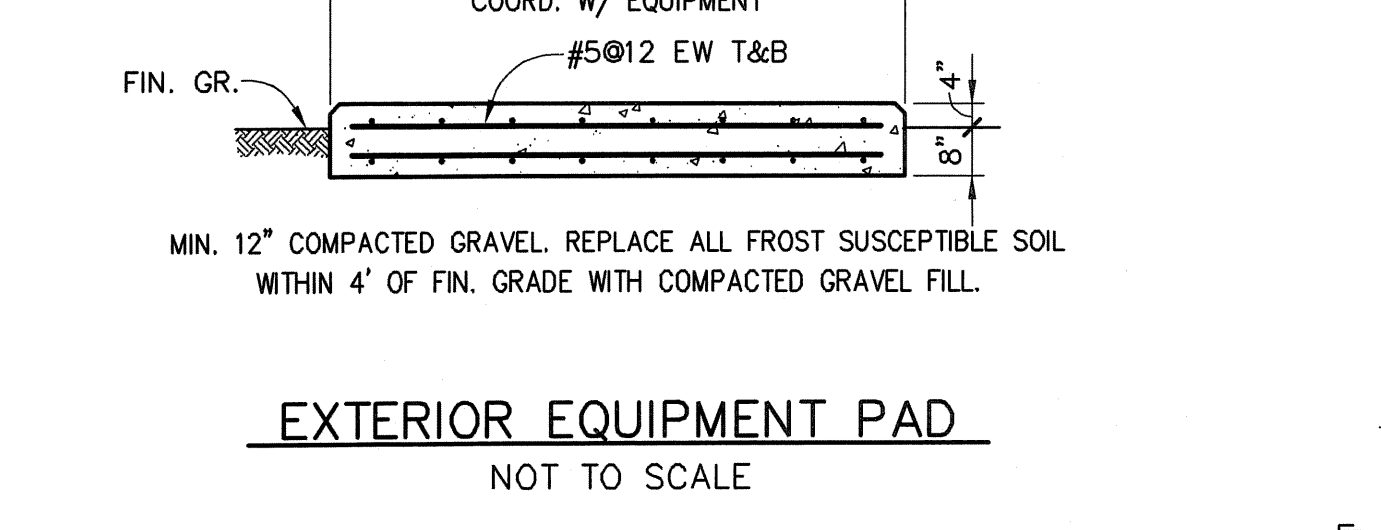
PIPE ENCASEMENT DETAIL (NOT TO SCALE)



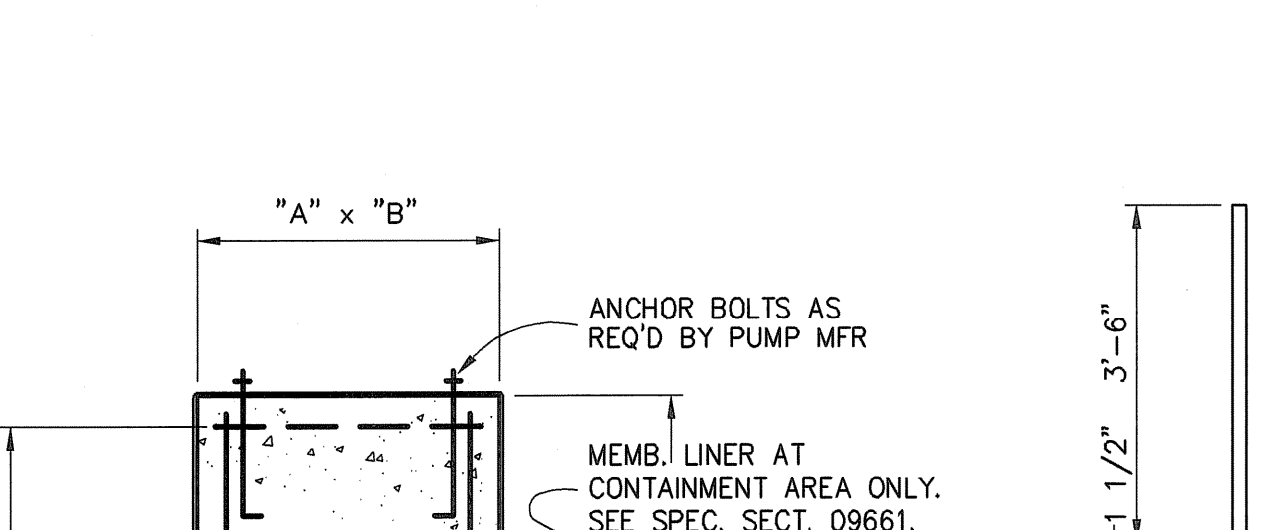
TYPICAL FRP GRATING DETAILS (NOT TO SCALE)



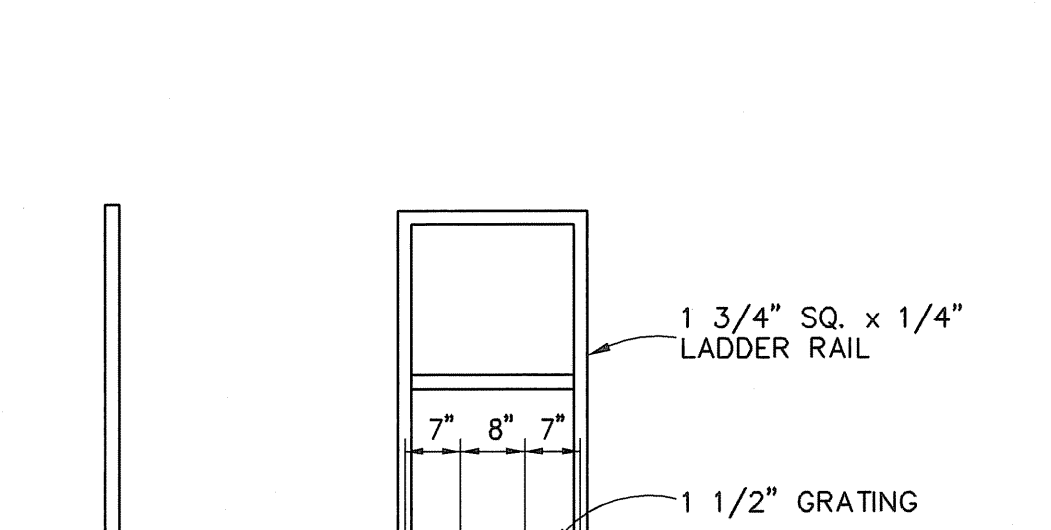
TYPICAL PIPE SUPPORT DETAIL (NOT TO SCALE)



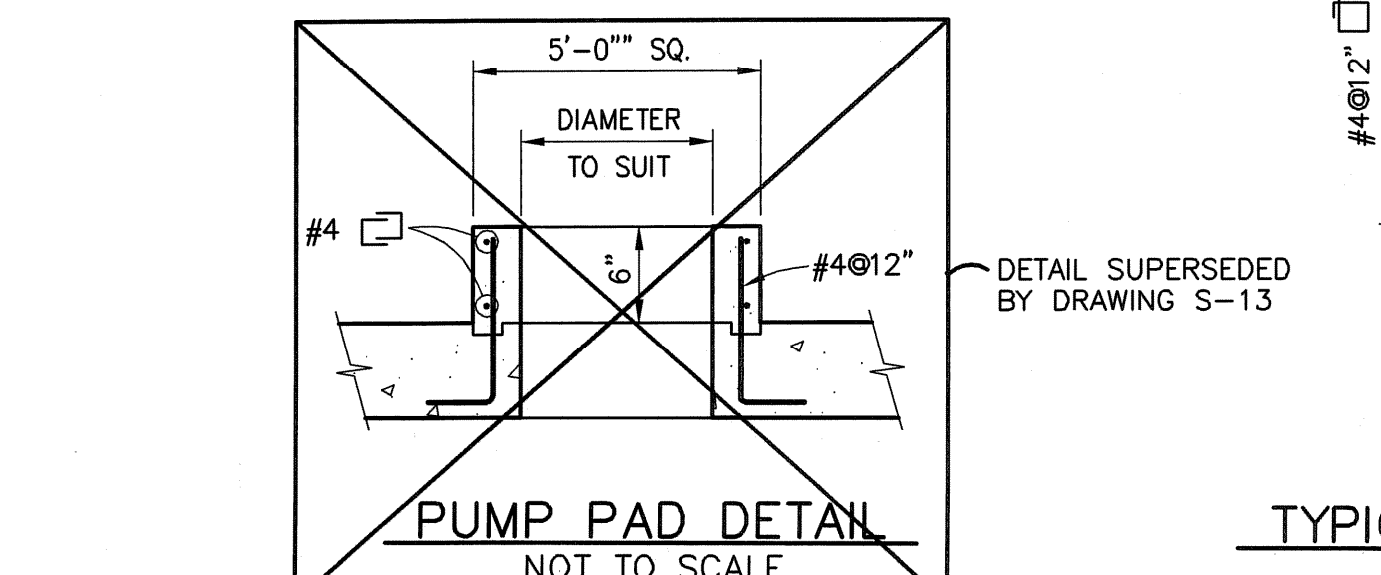
EXTERIOR EQUIPMENT PAD (NOT TO SCALE)



TYPICAL CHEMICAL PUMP PAD DETAIL (NOT TO SCALE)



EXTENDED WALKTHRU FRP LADDER (SCALE: 1/2\"/>



PUMP PAD DETAIL (NOT TO SCALE)

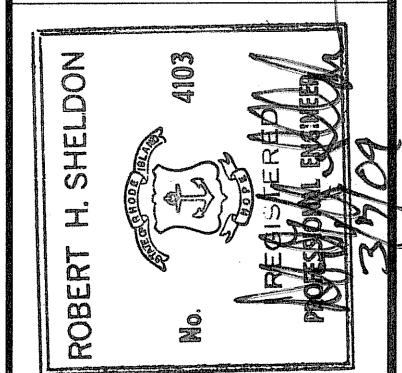
STRUCTURAL NOTES

- GENERAL  
 1. THESE NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL STRUCTURES IN THE PROJECT, AS APPLICABLE.  
 2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, HEATING AND VENTILATING DRAWINGS AND SPECIFICATIONS. DRAWINGS SHALL BE REFERRED TO FOR SIZE AND LOCATION OF OPENINGS FOR VENTS, PIPES, DUCTS, ETC.  
 3. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.  
 4. BUILDING CODE: RHODE ISLAND STATE BUILDING CODE (1998) AND AMENDMENTS.  
 5. DESIGN LIVE LOADS  
 ROOF -30 PSF PLUS SNOW DRIFT (SEE DIAGRAMS)  
 FLOORS -100 PSF - ROOF OVER PUMP ROOM  
 -AS INDICATED ON PLANS
- EARTHQUAKE  
 SEISMIC HAZARD GROUP II  
 SEISMIC PERFORMANCE C  
 CATEGORY  
 SOIL PROFILE TYPE S1  
 BASIC STRUCTURAL SYSTEM LOAD BEARING MASONRY SHEAR WALLS  
 RESPONSE MODIFICATION FACTOR (R) 3  
 DEFLECTION AMPLIFICATION FACTOR (cd)  
 ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

- FOUNDATIONS  
 1. NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS WHICH HAVE NOT BEEN CURED FOR AT LEAST 7 DAYS.  
 2. BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL SUPPORTING FRAMED SLABS HAVE BEEN PLACED AND THE FORMS REMOVED. BACKFILL SHALL BE PLACED AND COMPACTED ON ALL SIDES OF STRUCTURE SIMULTANEOUSLY.  
 3. NO FOOTINGS SHALL BE PLACED ON LOOSE OR DISTURBED SOILS, IN WATER NOR ON FROZEN GROUND.  
 4. A MINIMUM OF 12 INCHES OF CRUSHED STONE SHALL BE PLACED BENEATH THE MAT FOR THE 5 MG WATER STORAGE TANK AND THE WETWELL IN THE FILTRATION BUILDING. A MINIMUM OF 12 INCHES OF COMPACTED GRAVEL SHALL BE PLACED BENEATH ALL OTHER FOUNDATION MATS, FOOTINGS, AND SLAB-ON-GRADE.  
 5. COMPACT ALL FILL UNDER THE SLAB-ON-GRADE AND ANY OTHER AREAS NOTED TO AT LEAST 95% OF MAXIMUM DENSITY AS SPECIFIED. VERIFY FIELD DENSITY AS SPECIFIED.  
 6. STRUCTURES MUST BE PROTECTED AGAINST BUOYANCY AT ALL TIMES DURING CONSTRUCTION.

- CONCRETE  
 1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI, UNLESS OTHERWISE NOTED.  
 2. REINFORCING STEEL SHALL COMPLY WITH THE FOLLOWING:  
 A. ASTM DESIGNATION A615 GRADE 60.  
 B. REINFORCEMENT SHALL COMPLY WITH THE TABLE, "CONCRETE PROTECTION FOR REINFORCEMENT", UNLESS OTHERWISE NOTED.  
 C. FOR MINIMUM BAR SPLICE LENGTHS SEE TABLE SHOWN ON THIS DRAWING.  
 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.  
 4. CONTRACTOR SHALL COORDINATE LOCATIONS OF FLOOR DRAINS, PIPING, ELECTRICAL CONDUITS, GROUNDS, SLEEVES, INSERTS, ETC. WITH CONCRETE CONSTRUCTION.  
 5. CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE KEYS. USE OF CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS WILL REQUIRE APPROVAL OF THE ENGINEERS.  
 6. WATERSTOPS ARE NOT NECESSARILY SHOWN AT EVERY JOINT, BUT WHERE THEY ARE SHOWN, IT IS INTENDED THAT THEY BE COMPLETE AND CONTINUOUS THROUGHOUT THAT PARTICULAR STRUCTURE. WATERSTOPS IN VERTICAL JOINTS SHALL EXTEND TO THE ELEVATION OF FINISH GROUND GRADE, EXCEPT FOR TANKS THEY SHALL EXTEND FULL HEIGHT.  
 7. PROVIDE WALL SLEEVES WITH INTERMEDIATE WALL COLLARS AT ALL CAST/DUCTILE IRON AND PLASTIC PIPE PENETRATIONS, UNLESS OTHERWISE INDICATED.  
 8. PROVIDE ALL NECESSARY CHAIRS, CHAIR BARS, SPACERS ETC. WIRED SECURELY TO HOLD REINFORCING IN POSITION. THESE ACCESSORIES SHALL BE PLASTIC BOOTED WHERE CONCRETE IS TO BE EXPOSED TO WEATHER OR MOISTURE.  
 9. BEAMS AND COLUMNS SHALL NOT BE PENETRATED UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.  
 10. ALL EXPOSED CORNERS OF CONCRETE BEAMS AND WALLS SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED.

NO.	DATE	BY	REVISIONS
2	JULY 2008	DPB	AS-BUILT DRAWING FILE
1	10/31/06	R.D.	ISSUED FOR INT. POSTED SET
0	4/05	R.D.	ISSUED FOR CONSTRUCTION



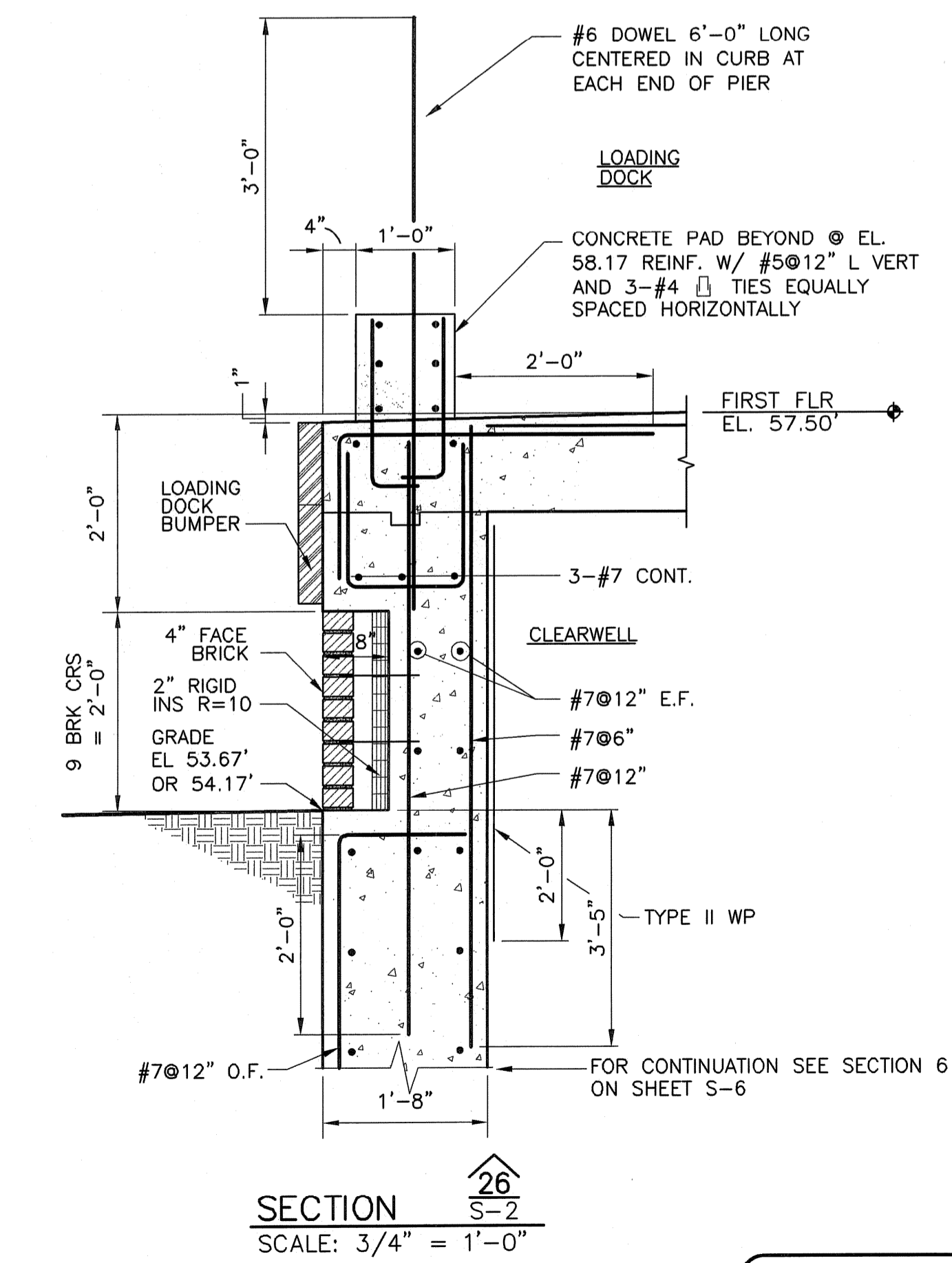
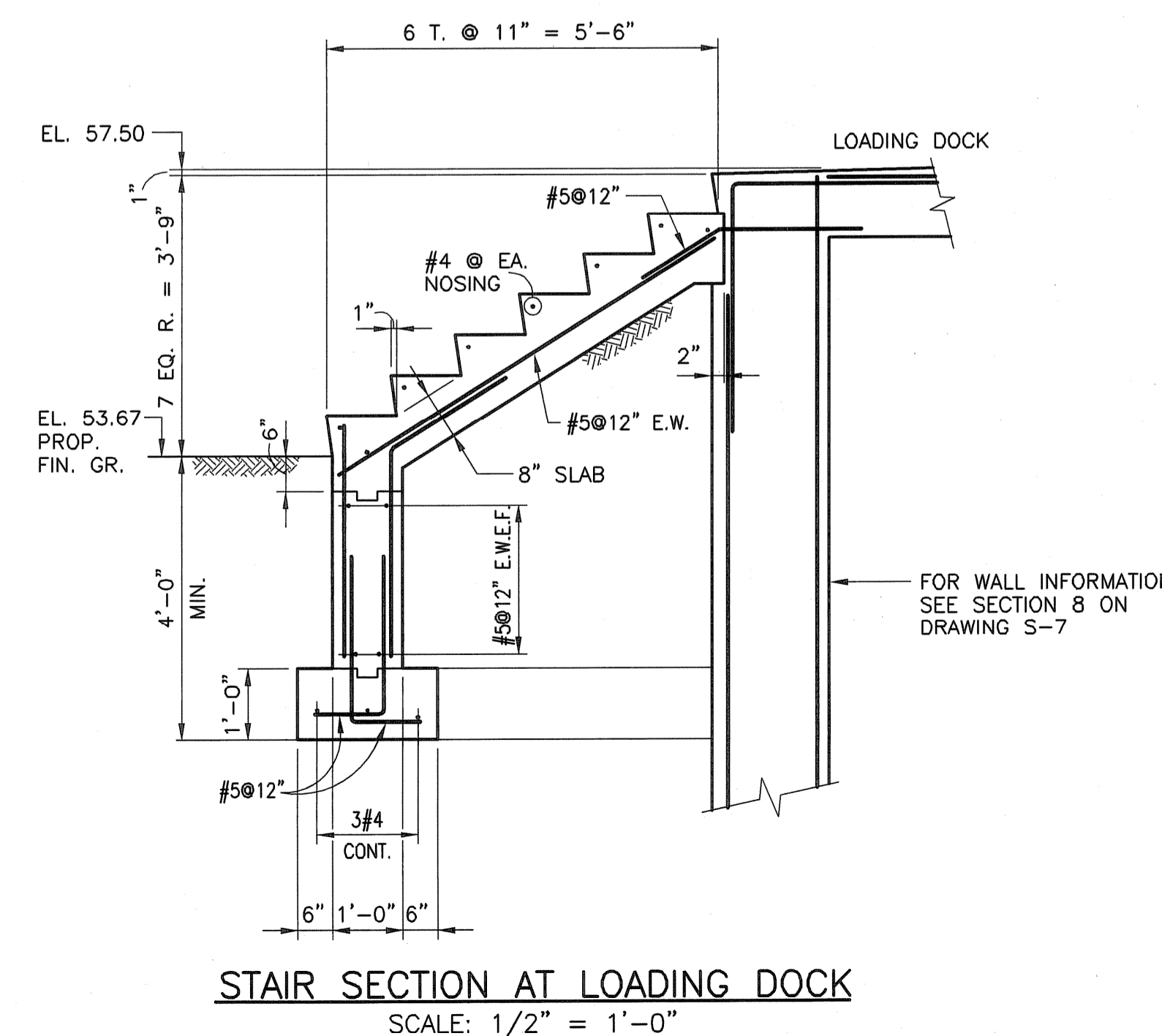
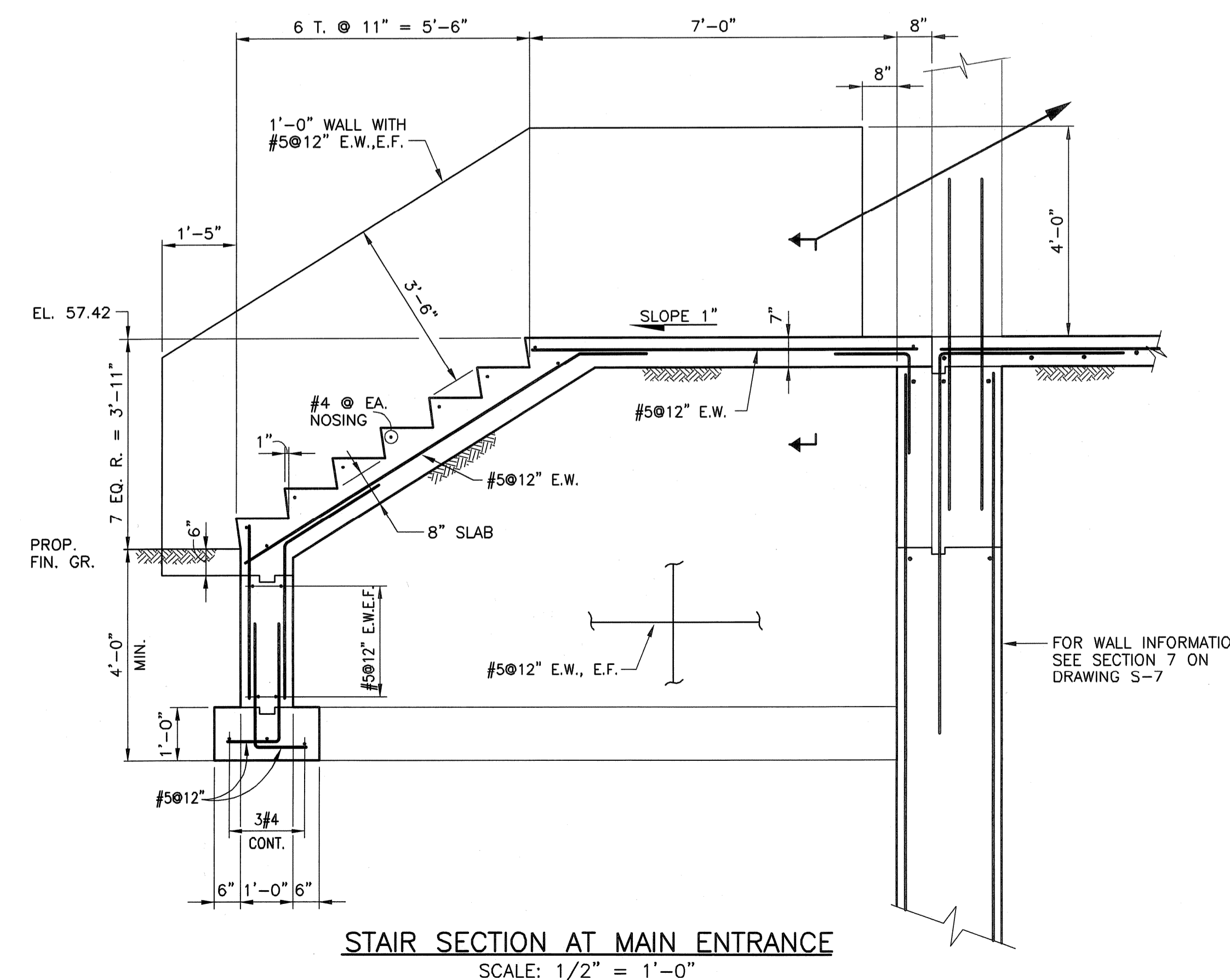
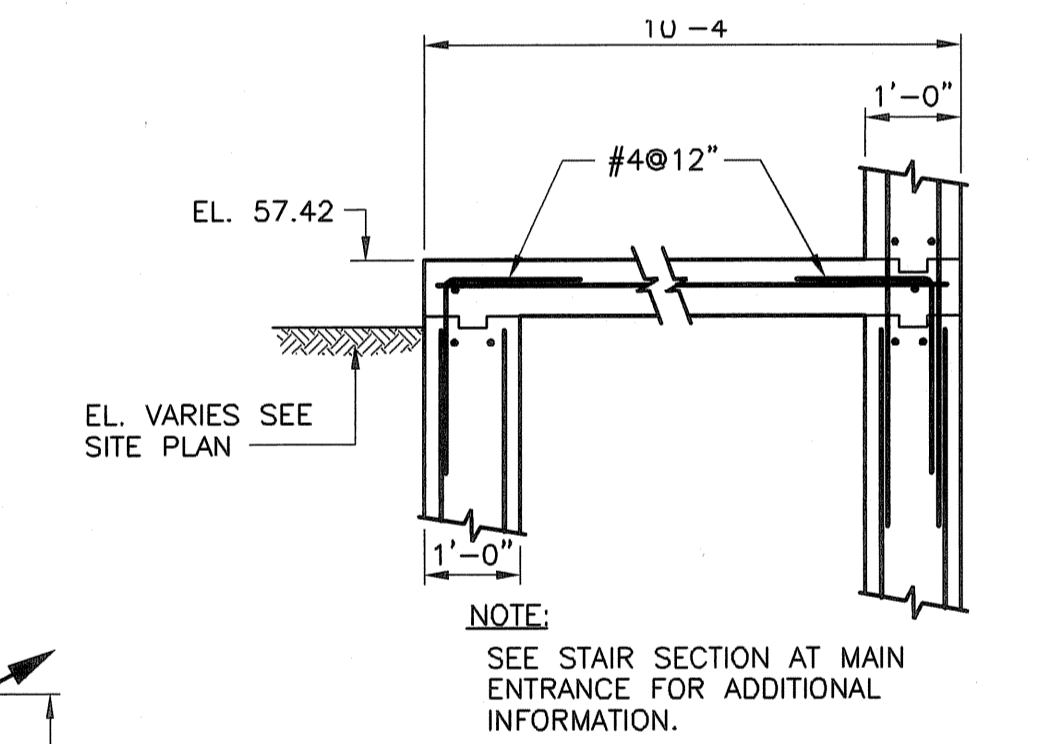
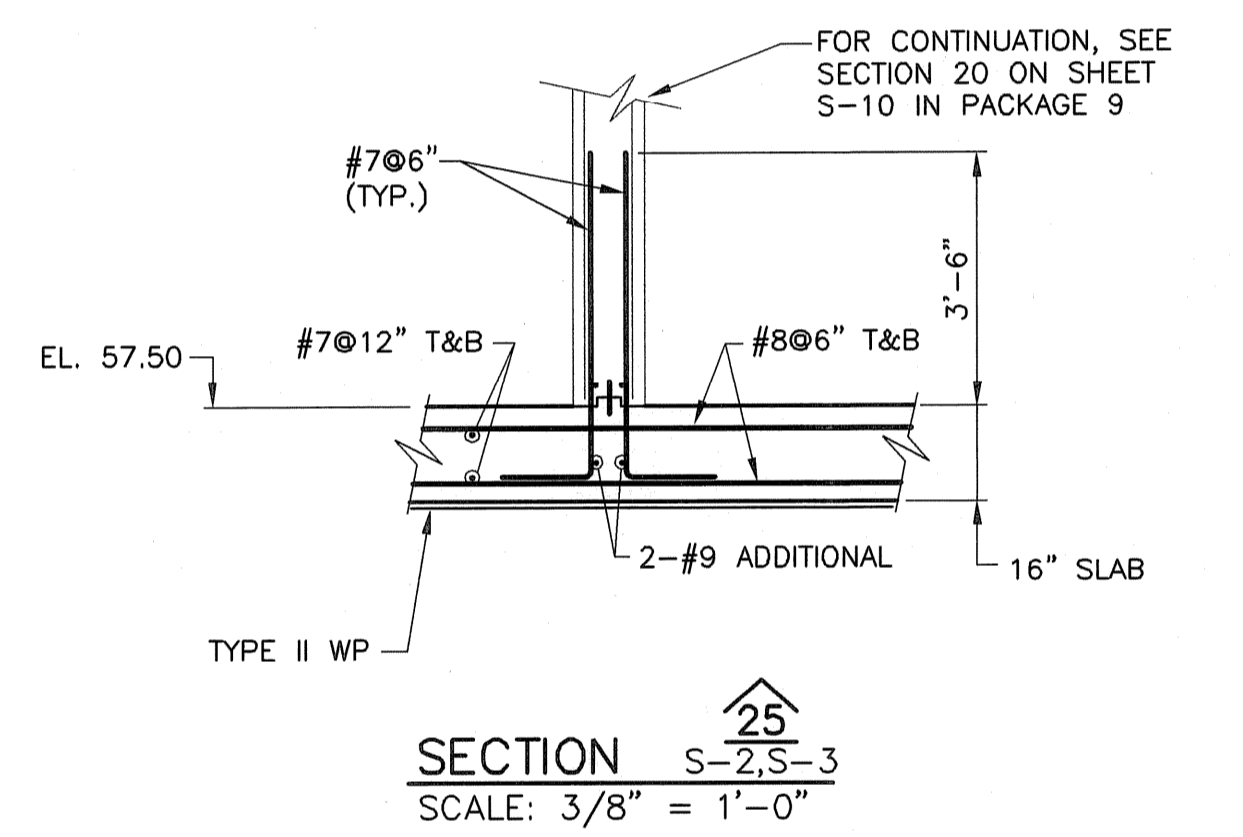
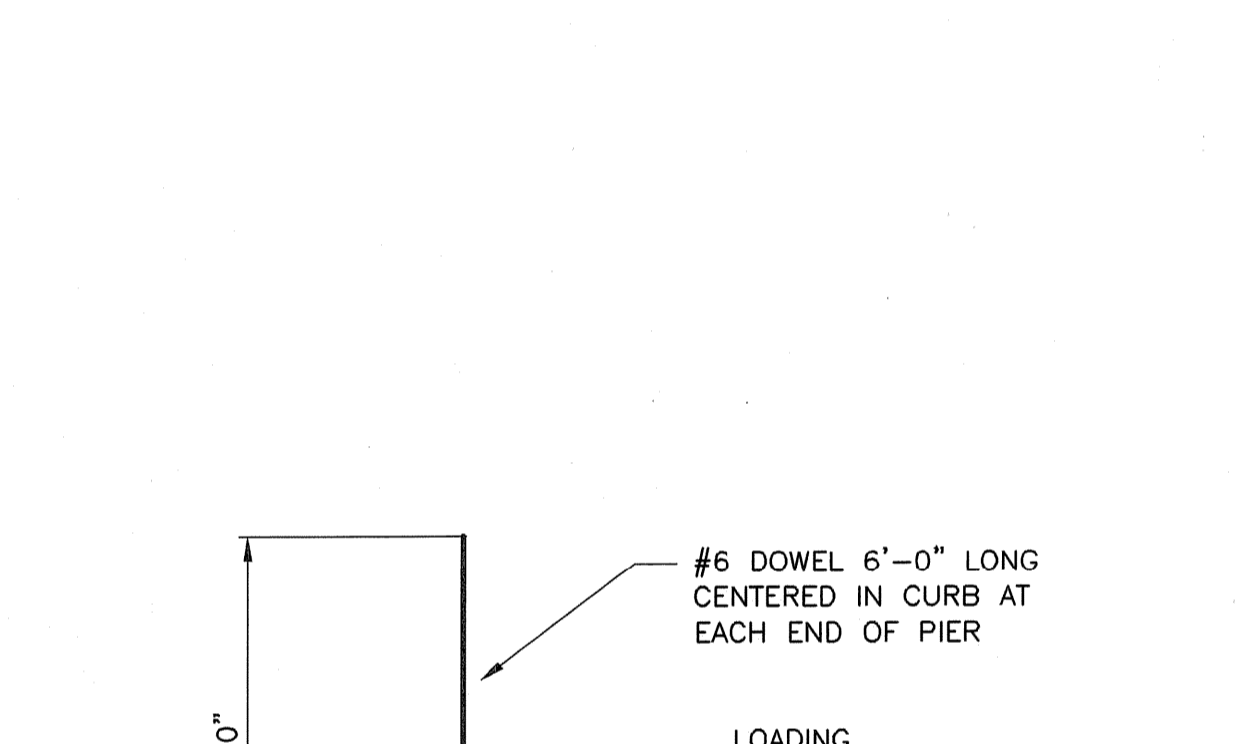
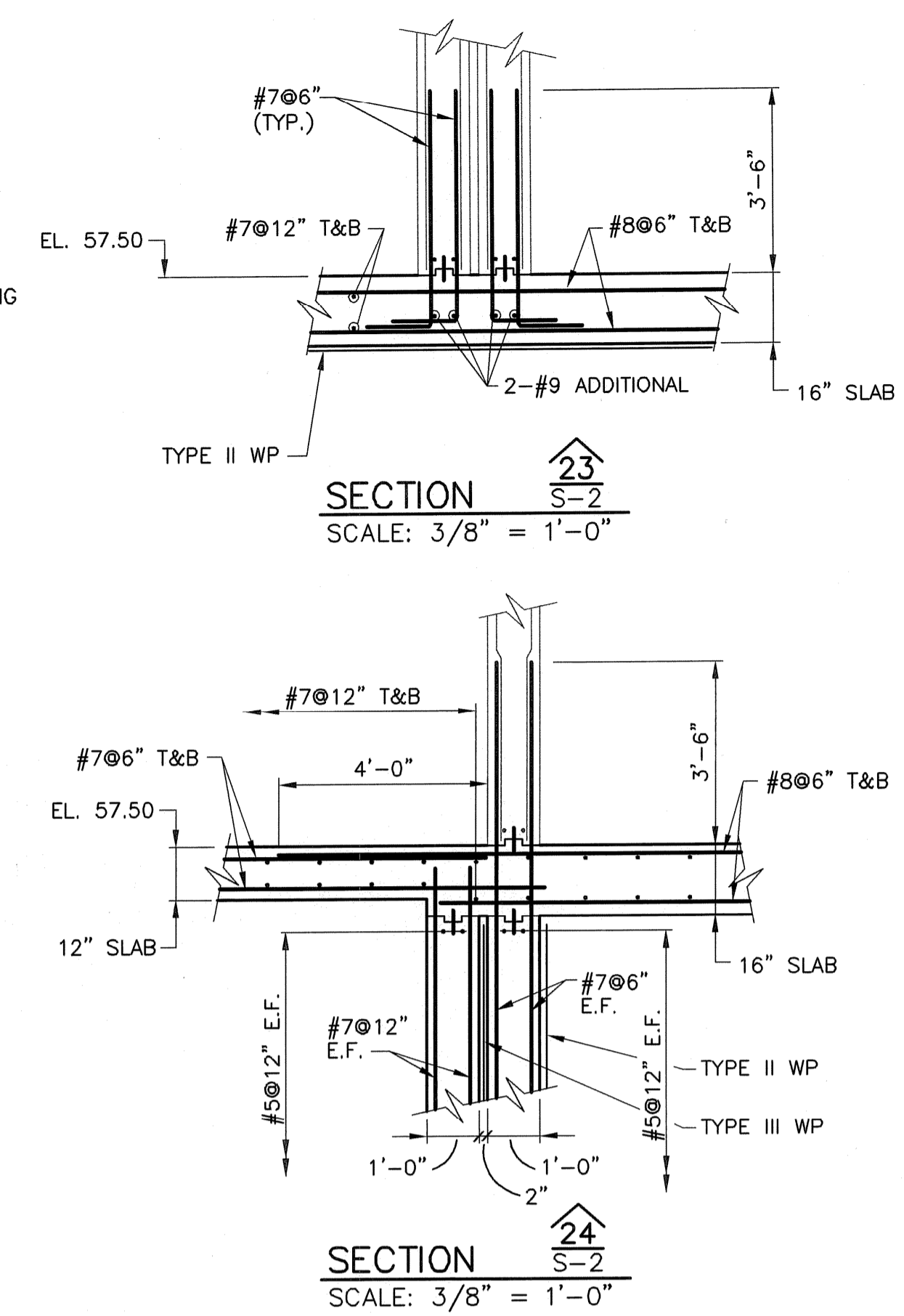
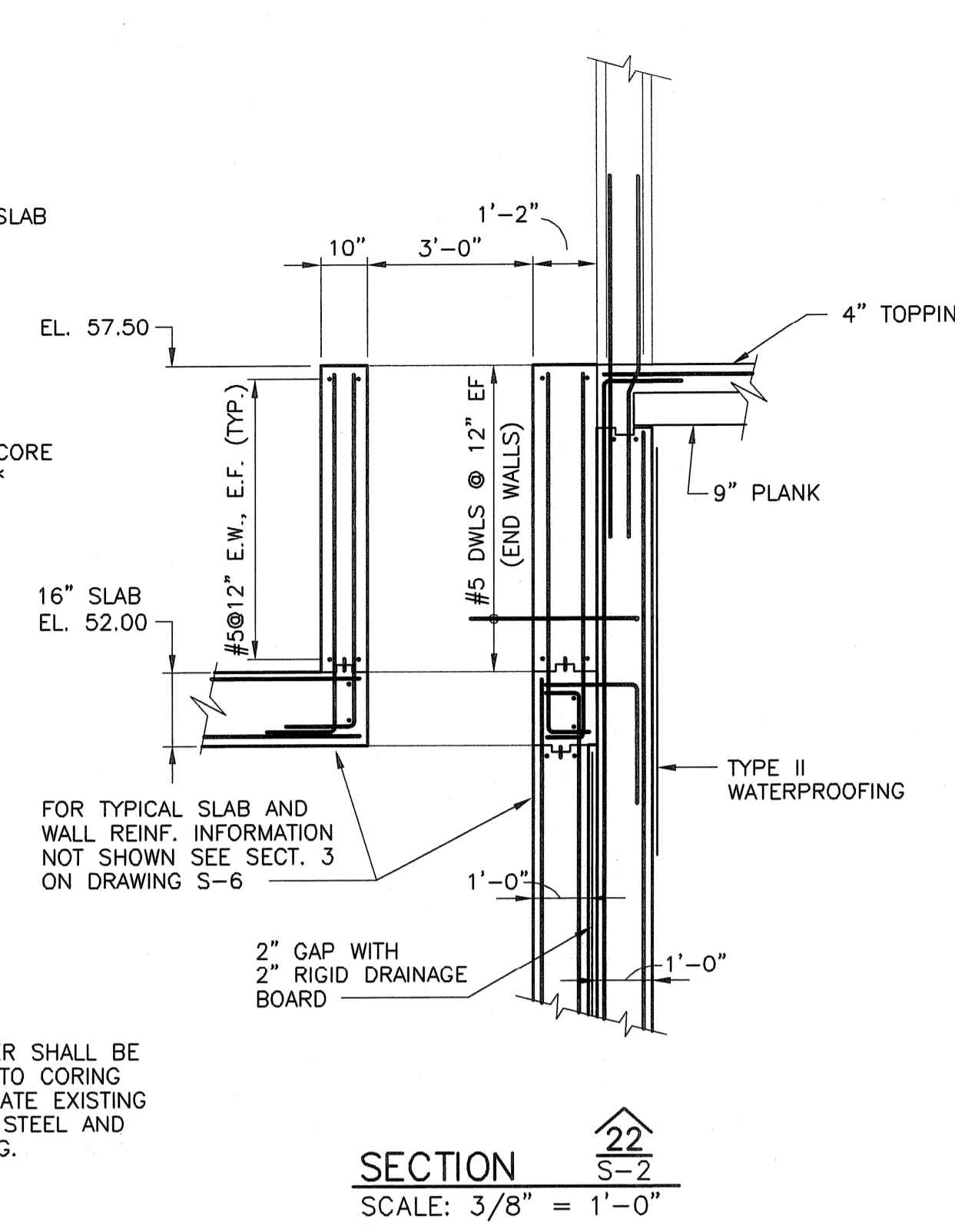
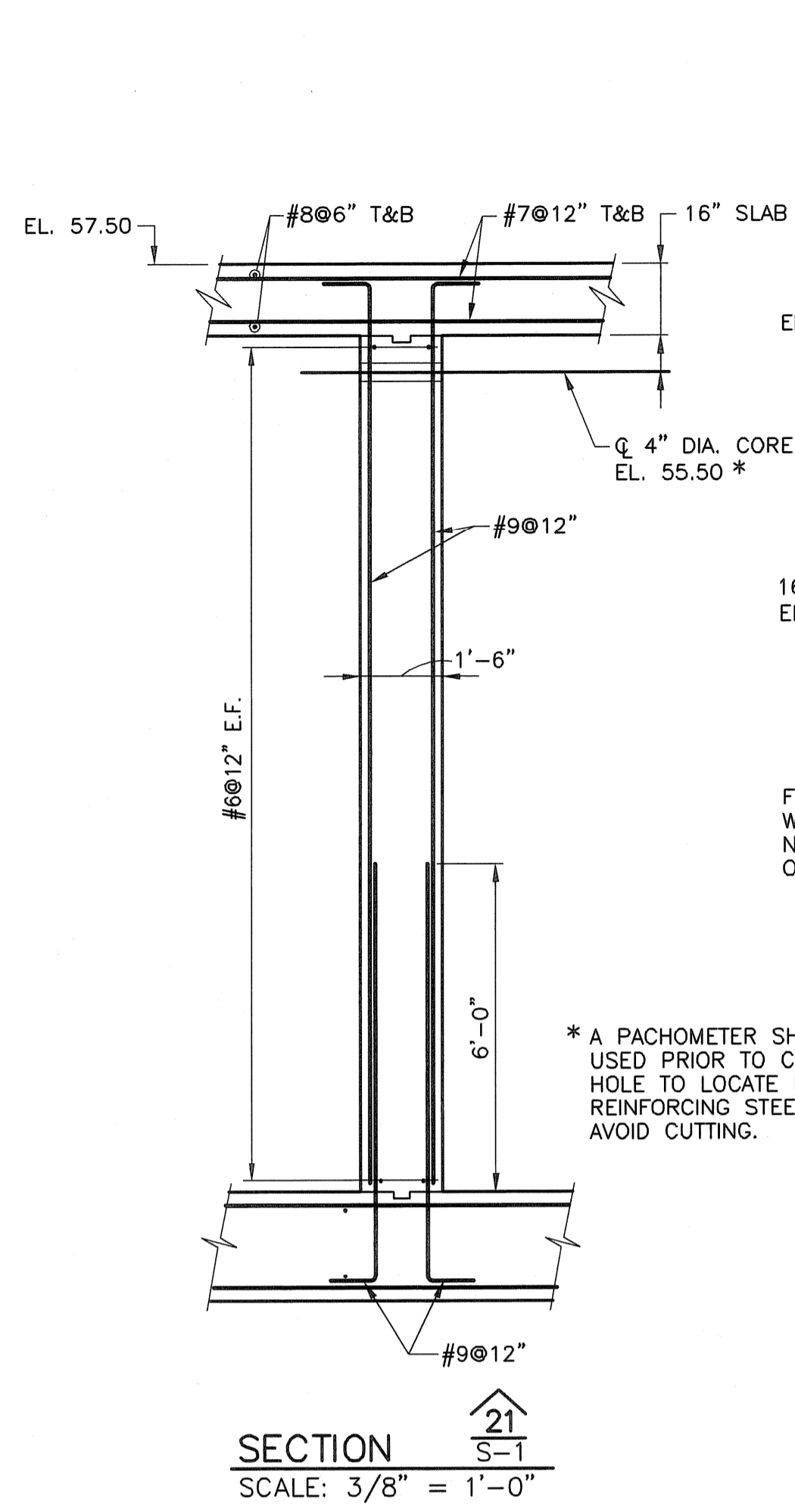
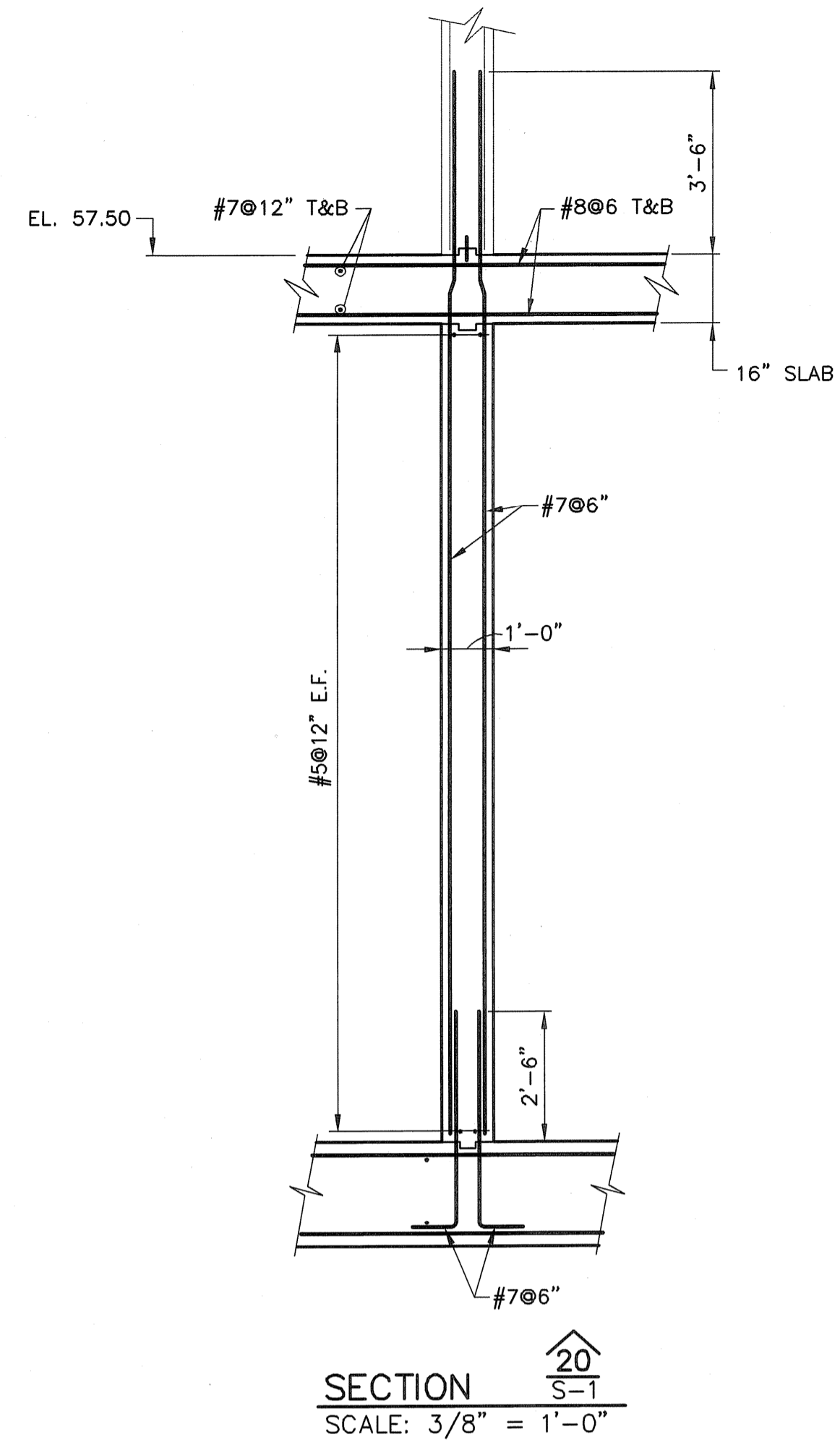
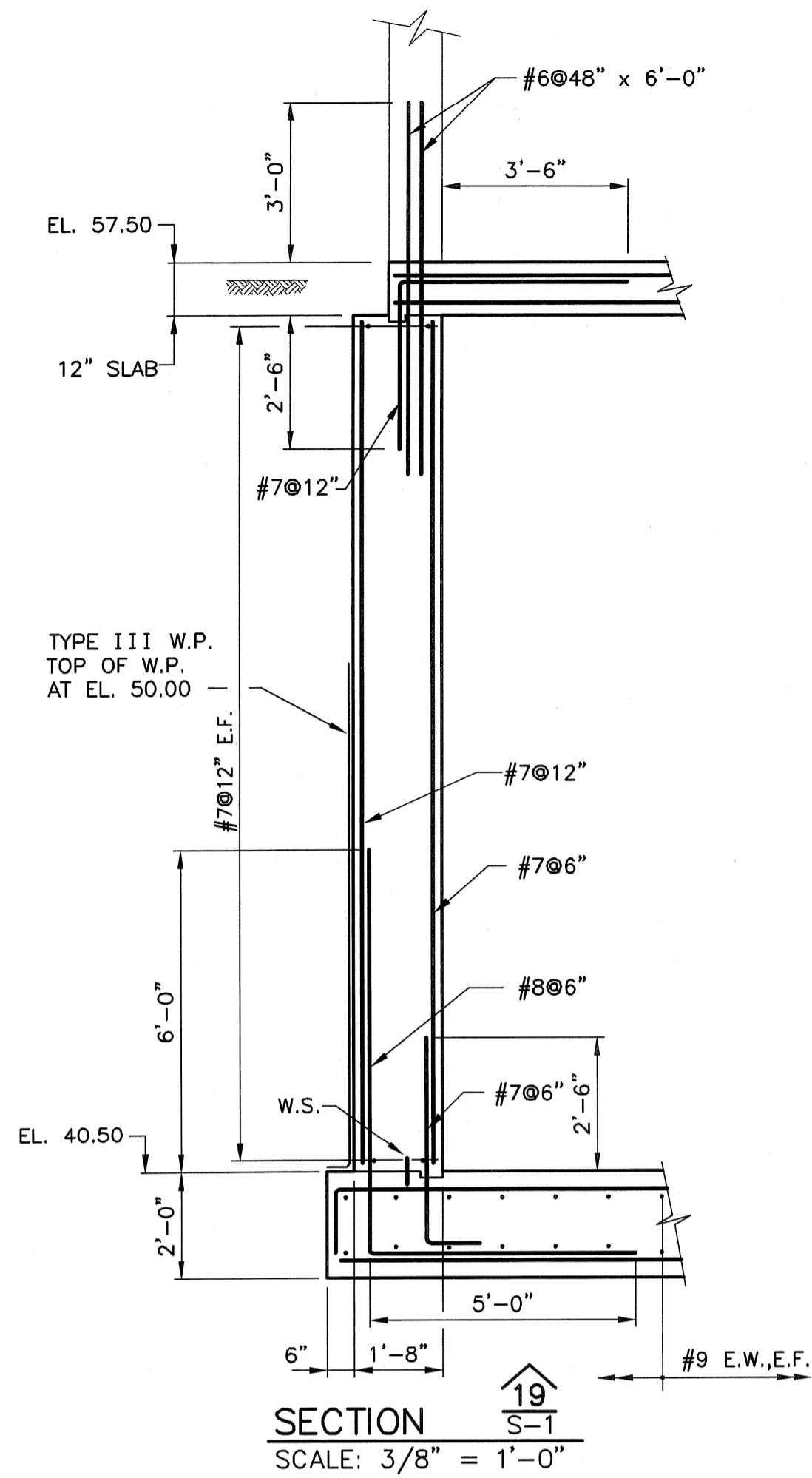
PAWTUCKET, RHODE ISLAND  
 PAWTUCKET REGIONAL  
 WATER TREATMENT FACILITY  
 PKG 3 - LOWER CONCRETE  
 STRUCTURAL DETAILS AND NOTES

DESIGNED BY	DWG SCALE
DPB	AS NOTED
DRAWN BY	CONTRACT NO.
DPB	
CHECKED BY	DATE
	OCTOBER 31, 2008

EARTH TECH  
 AS-BUILT FILE  
 JULY 2008

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EARTH TECH  
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NO.	BY	DATE	REVISIONS
2	DPB	JULY 2008	AS-BUILT DRAWING FILE
1	R.D.	10/31/06	ISSUED FOR RFI POSTED SET
0	R.D.	4/05	ISSUED FOR CONSTRUCTION

ROBERT H. SHELDON  
 No. 4103  
 PROFESSIONAL ENGINEER  
 STATE OF MASSACHUSETTS

PAWTUCKET, RHODE ISLAND  
**PAWTUCKET REGIONAL WATER TREATMENT FACILITY**  
**PKG 3 - LOWER CONCRETE**  
 SECTIONS AND DETAILS

DESIGNED BY	DPB	DWG SCALE	3/8" = 1'-0"
DRAWN BY	DPB	CONTRACT NO.	
CHECKED BY		DATE	OCTOBER 31, 2006

S-10 SHEET OF