

Allegheny County Sanitary Authority
 3300 Preble Avenue
 Pittsburgh, PA 15233

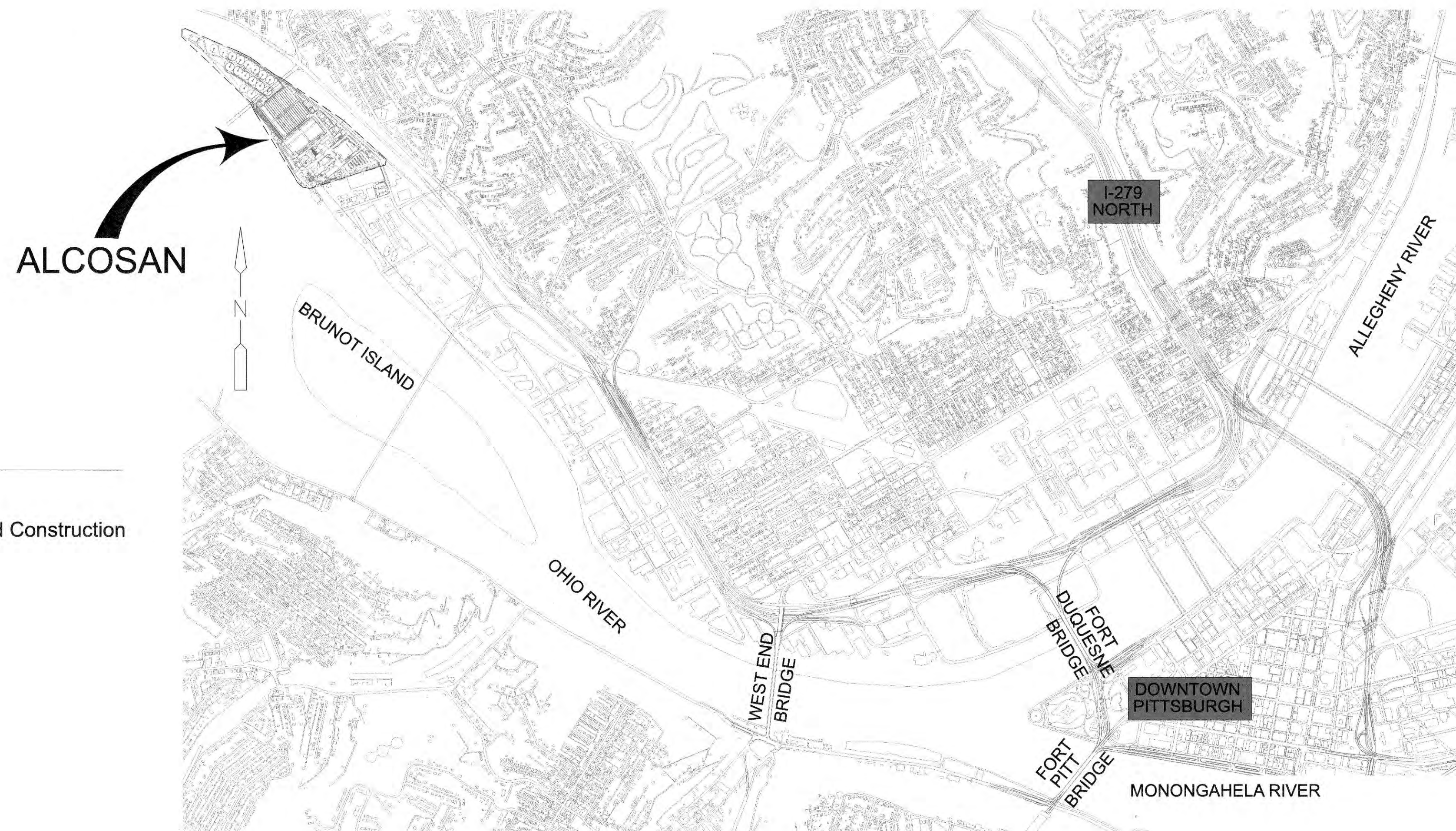
Contract No. 1714
 Roof Modifications for Screenings Garage
 and Power Generation Building



MEMBERS OF THE BOARD

- Corey O'Connor - Chairperson
- Rep. Harry Readshaw - Vice-Chairperson
- Sylvia Wilson - Treasurer
- Shannah Tharp-Gilliam, Ph.D. - Secretary
- Jack Shea
- John Weinstein
- Brenda L. Smith

- Arletta Scott Williams - Executive Director
- Kimberly Kennedy, P.E. - Director of Engineering and Construction



APPROVED	
<i>Arletta Scott Williams</i>	4/13/20
EXECUTIVE DIRECTOR	DATE
<i>Kimberly Kennedy</i>	4-13-20
DIRECTOR OF ENGINEERING AND CONSTRUCTION	DATE
<i>Deborah L. Joyce</i>	4/13/20
MANAGER OF CAPITAL PROJECTS	DATE
<i>Elijah A. Joyce</i>	4/8/20
PROJECT ENGINEER	DATE

SITE LOCATION PLAN
 N.T.S.

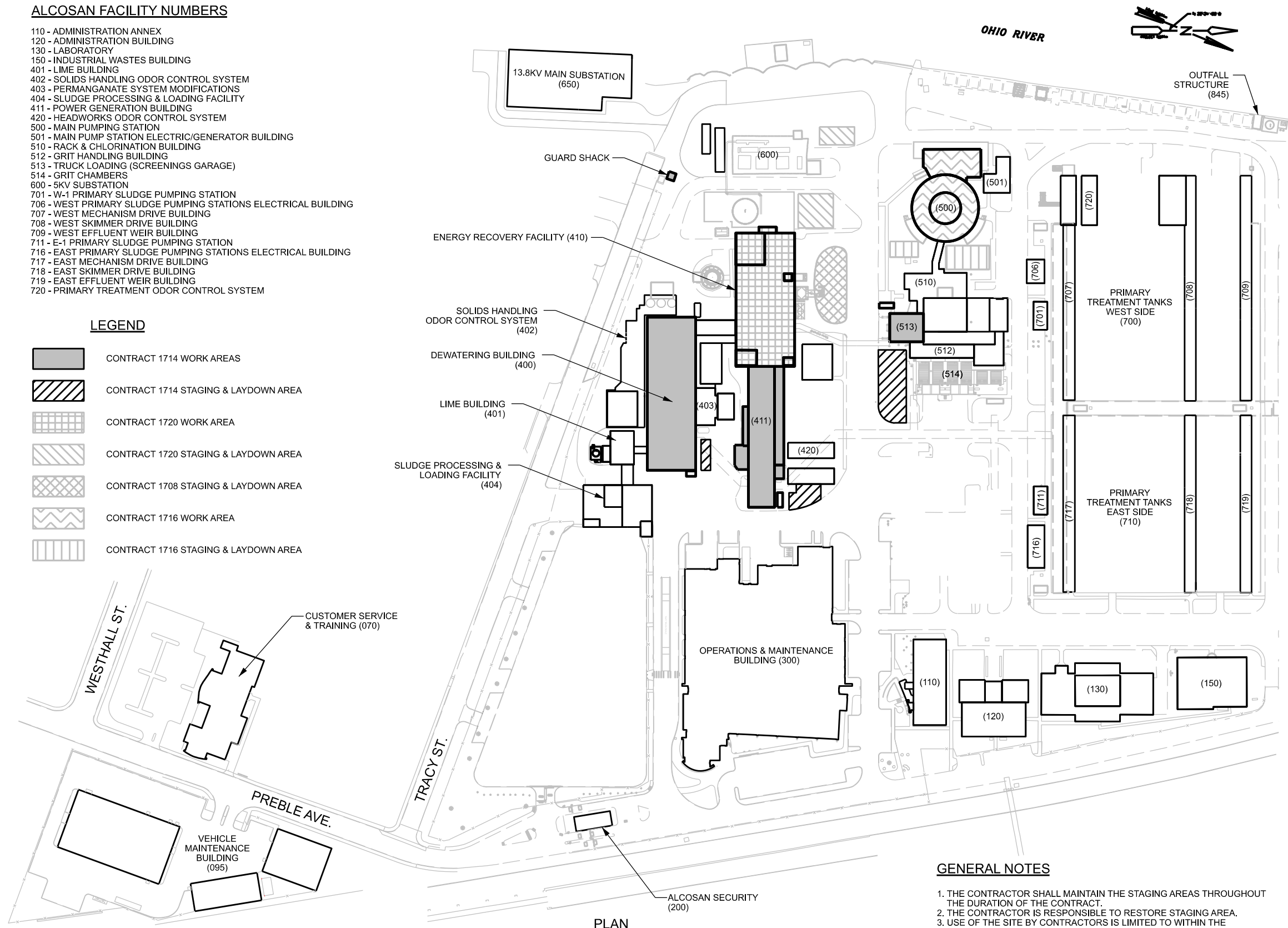
DESIGN SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

ALCOSAN FACILITY NUMBERS

- 110 - ADMINISTRATION ANNEX
- 120 - ADMINISTRATION BUILDING
- 130 - LABORATORY
- 150 - INDUSTRIAL WASTES BUILDING
- 401 - LIME BUILDING
- 402 - SOLIDS HANDLING ODOR CONTROL SYSTEM
- 403 - PERMANGANATE SYSTEM MODIFICATIONS
- 404 - SLUDGE PROCESSING & LOADING FACILITY
- 411 - POWER GENERATION BUILDING
- 420 - HEADWORKS ODOR CONTROL SYSTEM
- 500 - MAIN PUMPING STATION
- 501 - MAIN PUMP STATION ELECTRIC/GENERATOR BUILDING
- 510 - RACK & CHLORINATION BUILDING
- 512 - GRIT HANDLING BUILDING
- 513 - TRUCK LOADING (SCREENINGS GARAGE)
- 514 - GRIT CHAMBERS
- 600 - 5KV SUBSTATION
- 701 - W-1 PRIMARY SLUDGE PUMPING STATION
- 706 - WEST PRIMARY SLUDGE PUMPING STATIONS ELECTRICAL BUILDING
- 707 - WEST MECHANISM DRIVE BUILDING
- 708 - WEST SKIMMER DRIVE BUILDING
- 709 - WEST EFFLUENT WEIR BUILDING
- 711 - E-1 PRIMARY SLUDGE PUMPING STATION
- 716 - EAST PRIMARY SLUDGE PUMPING STATIONS ELECTRICAL BUILDING
- 717 - EAST MECHANISM DRIVE BUILDING
- 718 - EAST SKIMMER DRIVE BUILDING
- 719 - EAST EFFLUENT WEIR BUILDING
- 720 - PRIMARY TREATMENT ODOR CONTROL SYSTEM

LEGEND

-  CONTRACT 1714 WORK AREAS
-  CONTRACT 1714 STAGING & LAYDOWN AREA
-  CONTRACT 1720 WORK AREA
-  CONTRACT 1720 STAGING & LAYDOWN AREA
-  CONTRACT 1708 STAGING & LAYDOWN AREA
-  CONTRACT 1716 WORK AREA
-  CONTRACT 1716 STAGING & LAYDOWN AREA

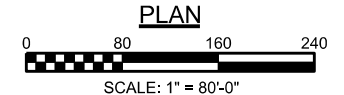


GENERAL NOTES

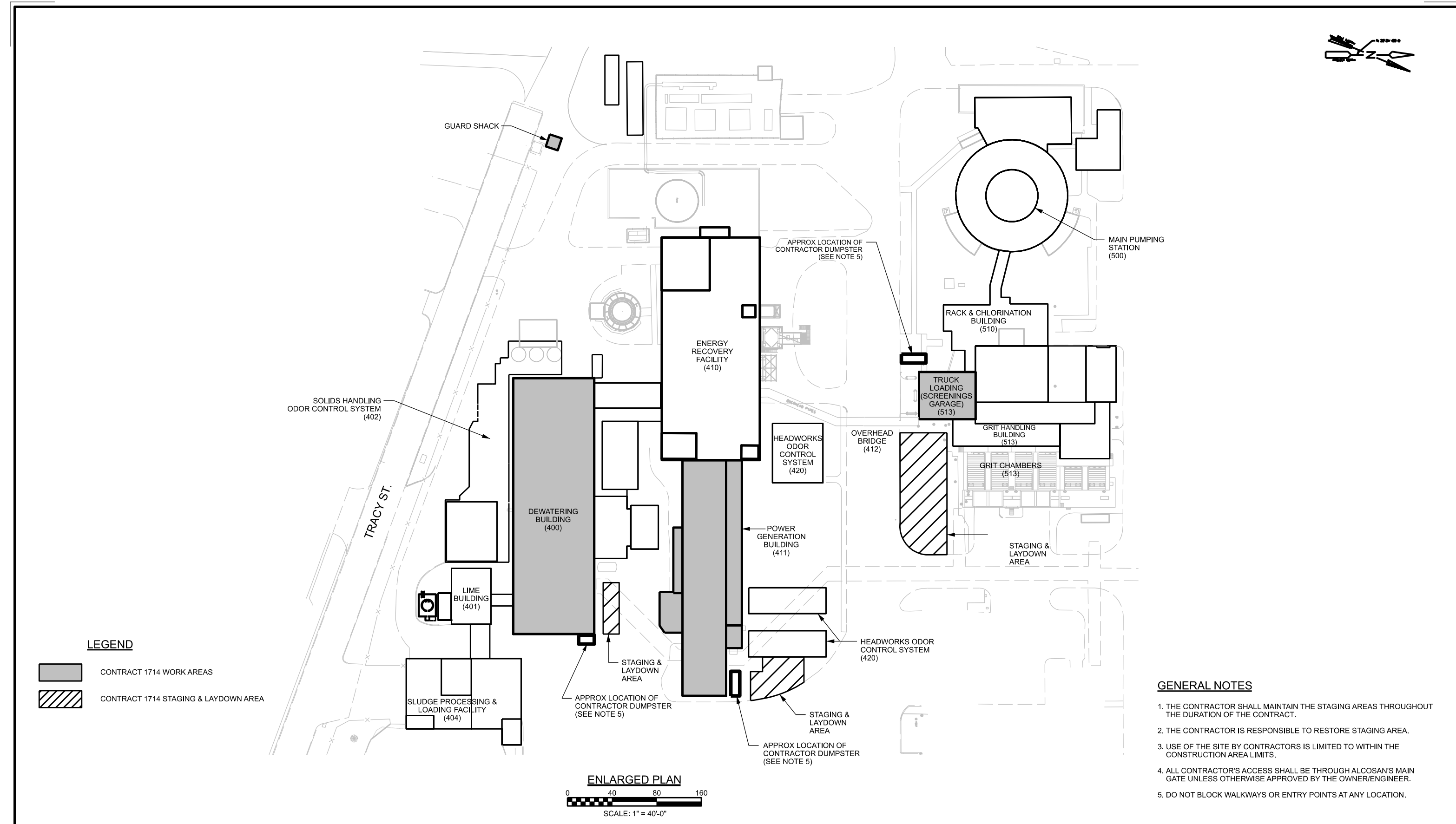
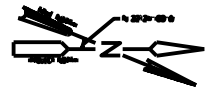
1. THE CONTRACTOR SHALL MAINTAIN THE STAGING AREAS THROUGHOUT THE DURATION OF THE CONTRACT.
2. THE CONTRACTOR IS RESPONSIBLE TO RESTORE STAGING AREA.
3. USE OF THE SITE BY CONTRACTORS IS LIMITED TO WITHIN THE CONSTRUCTION AREA LIMITS.
4. ALL CONTRACTOR'S ACCESS SHALL BE THROUGH ALCOSAN'S MAIN GATE UNLESS OTHERWISE APPROVED BY THE OWNER/ENGINEER.
5. DO NOT BLOCK WALKWAYS OR ENTRY POINTS AT ANY LOCATION.

CONTRACT DRAWING INDEX

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2	ENLARGED SITE UTILIZATION PLAN	1714-SU-02
3	DEWATERING BUILDING ASBUILT ROOF PLAN	400-A-01
4	OVERALL POWER GEN BUILDING ASBUILT ROOF PLAN	411-A-01
5	ENLARGED POWER GEN BUILDING ASBUILT ROOF PLAN	411-A-02
6	LOWER POWER GEN BUILDING & EMERGENCY GENERATOR ASBUILT ROOF PLAN	411-A-03
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10	ARCHITECTURAL EXTERIOR ELEVATION - SOUTH	400-A-203
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12	HVAC ROOF PLAN (EL. 796.00 TO 784.00)	400-H-151
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14	POWER GENERATION BUILDING STRUCTURAL STEEL MODIFICATIONS ROOF - LINES 5 TO 9 SECTIONS	916-CS-114
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18	POWER GENERATION BUILDING ARCHITECTURAL CAUSTIC TANK & ACID TANK ENCLOSURE SECTIONS & DETAILS	916-AE-009
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24	BOILER ROOM ROOF DRAIN PLAN	411-S-10
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26	POWER GENERATION BUILDING ARCHITECTURAL EMERGENCY GENERATOR ENCLOSURE SECTIONS	916-AE-007
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29	POWER GENERATION BUILDING STRUCTURAL STEEL MODIFICATIONS ROOF - LINES 1 TO 2 & 4 TO 8 PLANS & SECTIONS	1018-CS-130
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31	SCREENINGS GARAGE ROOF PLAN	SHEET 2 OF 3
32	SCREENINGS GARAGE DETAILS	SHEET 3 OF 3



Designed by: E. JOYCE Drawn by: K. WILCOX Checked by: S. MILLER	REVISION <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV No.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPV</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">▲</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REV No.	DATE	DESCRIPTION	APPV	▲						 <p>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN</p> <p>3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810</p> <p>www.alcosan.org</p>	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT ROOF MODIFICATIONS 1714-SU-01 SITE UTILIZATION PLAN	Contract: 1714 CAD File Name: 1714-SU-01.DGN Date: 04/09/2020 Sheet: 1 of 32
REV No.	DATE	DESCRIPTION	APPV											
▲														



LEGEND

- CONTRACT 1714 WORK AREAS
- CONTRACT 1714 STAGING & LAYDOWN AREA

GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN THE STAGING AREAS THROUGHOUT THE DURATION OF THE CONTRACT.
2. THE CONTRACTOR IS RESPONSIBLE TO RESTORE STAGING AREA.
3. USE OF THE SITE BY CONTRACTORS IS LIMITED TO WITHIN THE CONSTRUCTION AREA LIMITS.
4. ALL CONTRACTOR'S ACCESS SHALL BE THROUGH ALCOSAN'S MAIN GATE UNLESS OTHERWISE APPROVED BY THE OWNER/ENGINEER.
5. DO NOT BLOCK WALKWAYS OR ENTRY POINTS AT ANY LOCATION.

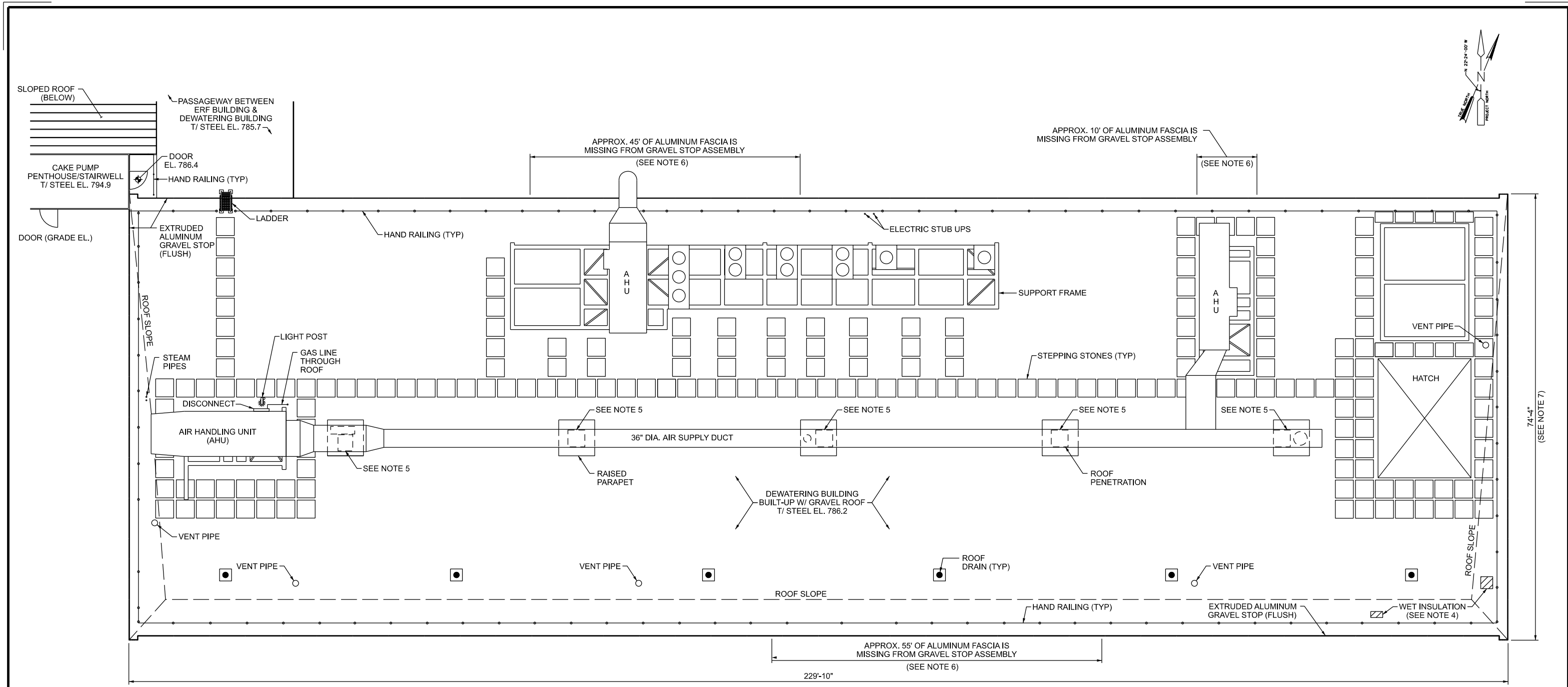
ENLARGED PLAN



SCALE: 1" = 40'-0"

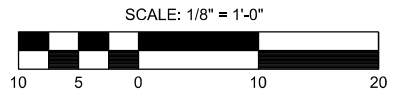
Designed by:	REVISION											
E. JOYCE	REV No.	DATE	DESCRIPTION	APPV								
Drawn by:												
K. WILCOX												
Checked by:												
S. MILLER												

 <small>ALLEGHENY COUNTY SANITARY AUTHORITY</small>	ARLETTA SCOTT WILLIAMS <small>EXECUTIVE DIRECTOR, ALCOSAN</small>	3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT ROOF MODIFICATIONS
1714-SU-02 ENLARGED SITE UTILIZATION PLAN LAYDOWN & DUMPSTER LOCATIONS			
Contract:	1714		
CAD File Name:	1714-SU-02.DGN		
Date:	04/09/2020		
Sheet:	2 of 32		

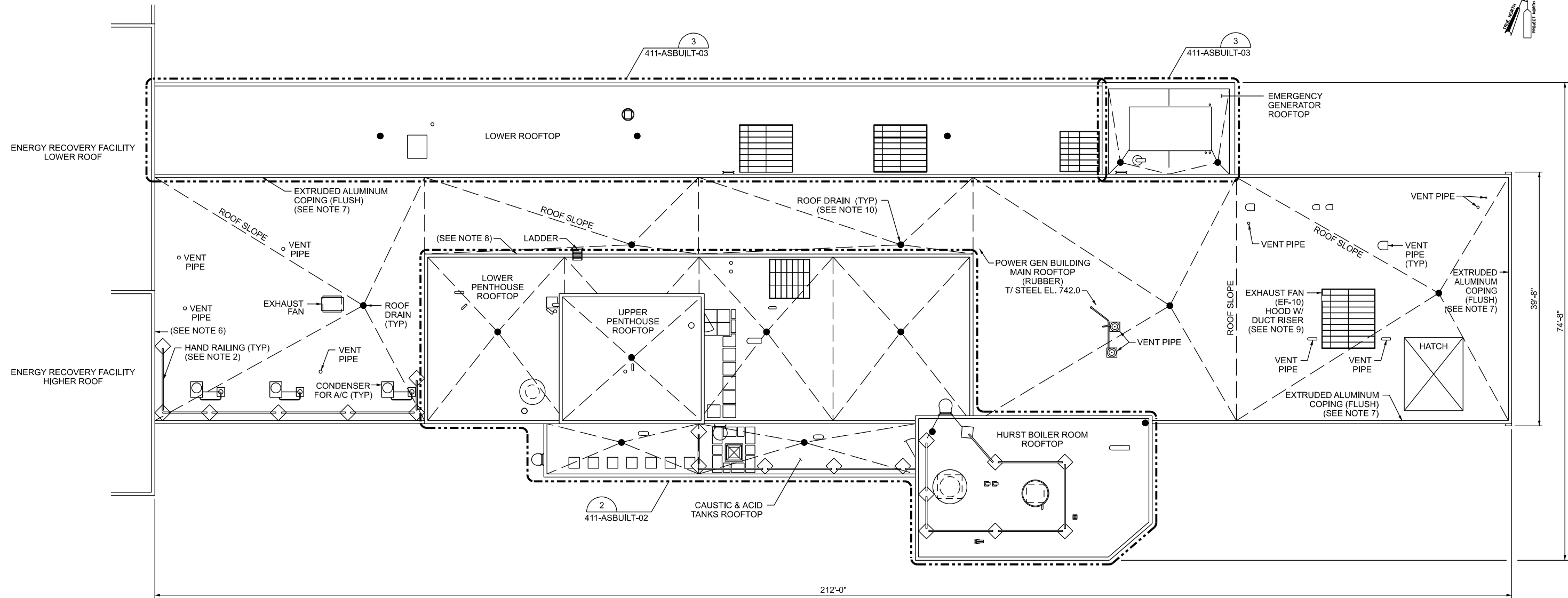
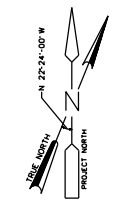


- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 2. THERE ARE 71 PITCH POCKETS (PENETRATIONS) NOT SHOWN THAT SHALL BE REPAIRED FOLLOWING THE PROCEDURES DETAILED IN SPECIFICATION 07510, BUILT-UP BITUMINOUS ROOFING.
 3. ALCOSAN PLANT ELEVATION AT GRADE IS 727.0
 4. HATCHING INDICATES 2 KNOWN AREAS OF SOFT/WET INSULATION (APPROXIMATE DIMENSIONS ARE 2'x2' and 1'x2') THAT SHALL BE REPLACED WITH NEW INSULATION. SEE SPECIFICATION 07510 FOR DETAILS.
 5. DIMENSIONS FOR EXISTING DUCTWORK AND ROOF PENETRATIONS ARE SHOWN ON REFERENCE DRAWINGS 12 (DWG 400-H-151) AND 11 (400-A-506, DETAIL H).
 6. REPLACE AREAS OF MISSING FASCIA/GRAVEL STOP TO MATCH EXISTING. SEE SPECIFICATION 07510 FOR DETAILS.
 7. EASTERN EDGE/CANT OF ROOF SHALL BE RECOATED/REPAIRED FOLLOWING THE PROCEDURES DETAILED IN SPECIFICATION 07510.
 8. SEE REFERENCE DRAWING 11 (DRAWING 400-A-506) FOR DETAILS OF EXISTING ROOF PERIMETER AND PENETRATIONS.

DEWATERING BUILDING ROOF PLAN



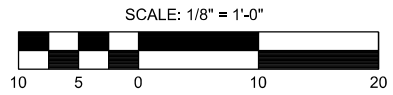
Designed by: E. JOYCE	REVISION			Contract: 1714		
	REV No.	DATE	DESCRIPTION		CAD File Name: 400-A-01.DGN	
						Date: 04/09/2020
Drawn by: K. WILCOX			 ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT ROOF MODIFICATIONS 400-A-01 DEWATERING BUILDING ASBUILT ROOF PLAN		
Checked by: S. MILLER						



OVERALL POWER GEN BUILDING ROOF PLAN 1

- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 2. EXISTING HAND RAILING IS A MODULAR SYSTEM WITH WEIGHTED MOVEABLE BASES. CONTRACTOR SHALL STORE AND REINSTALL HANDRAIL SYSTEM AFTER COMPLETION OF NEW ROOF.
 3. ALCOSAN PLANT ELEVATION AT GRADE IS 727.0
 4. INSTALL ANTI-SKID WALK PADS AROUND ALL ROOF-MOUNTED EQUIPMENT (HVAC UNITS, EXHAUST FANS/HOODS, ROOF HATCH), AT STEP-OFF POINTS AT TOP AND BOTTOM OF LADDERS AND OUTSIDE DOORWAY THRESHOLDS. ADDITIONALLY, INSTALL WALK PADS TO CREATE WALKING PATHS BETWEEN ROOF-MOUNTED EQUIPMENT, DOORWAYS AND LADDERS AT ELEVATION CHANGES. CONTRACTOR SHALL SUBMIT ROOF LAYOUT PLAN, INCLUDING ALL WALK PADS, FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF NEW ROOFS. REFERENCE SPECIFICATION 07540, THERMOPLASTIC ROOFING, FOR ADDITIONAL DETAILS.
 5. ALL CONCRETE SPLASH PADS AND CONCRETE PADS OUTSIDE OF DOOR THRESHOLDS SHALL BE STORED AND REINSTALLED AFTER COMPLETION OF NEW ROOF INSTALLATION.

6. SEE "SECTION B-B" ON REFERENCE DRAWING 16 (DRAWING 916-AE-003) FOR BUILDING INTERFACE DETAIL FOR MAIN ROOFTOP TO ENERGY RECOVERY FACILITY (INCINERATOR BUILDING).
7. SEE "SECTION A-A" ON REFERENCE DRAWING 16 (DRAWING 916-AE-003) FOR PERIMETER GRAVEL STOP/COPING DETAIL FOR MAIN ROOFTOP.
8. SEE "ROOF PLAN" ON REFERENCE DRAWING 13 (DRAWING 916-CS-113) AND SECTIONS "B-B" THROUGH "G-G" ON REFERENCE DRAWING 14 (DRAWING 916-CS-114) FOR COPING AND METAL WALL PANEL DETAILS FOR LOWER PENTHOUSE AND INTERFACE POINTS FOR METAL WALL PANELS AT MAIN ROOFTOP.
9. SEE "PARTIAL MAIN ROOF PLAN" ON REFERENCE DRAWING 29 (1018-CS-130) AND SECTIONS "F-F" AND "G-G" ON REFERENCE DRAWING 30 (1018-CS-131) FOR ROOF PENETRATION DETAILS FOR EXHAUST FAN (EF-10).
10. REFERENCE DRAWING 15 (916-M-191), 16 (916-AE-003) SHOW DETAILS FOR EXISTING DRAINS ON MAIN ROOFTOP.



Designed by: E. JOYCE	REVISION			Contract: 1714
	REV No.	DATE	DESCRIPTION	
Drawn by: K. WILCOX				Date: 04/09/2020
Checked by: S. MILLER				Sheet: 4 of 32



ALLEGHENY COUNTY SANITARY AUTHORITY

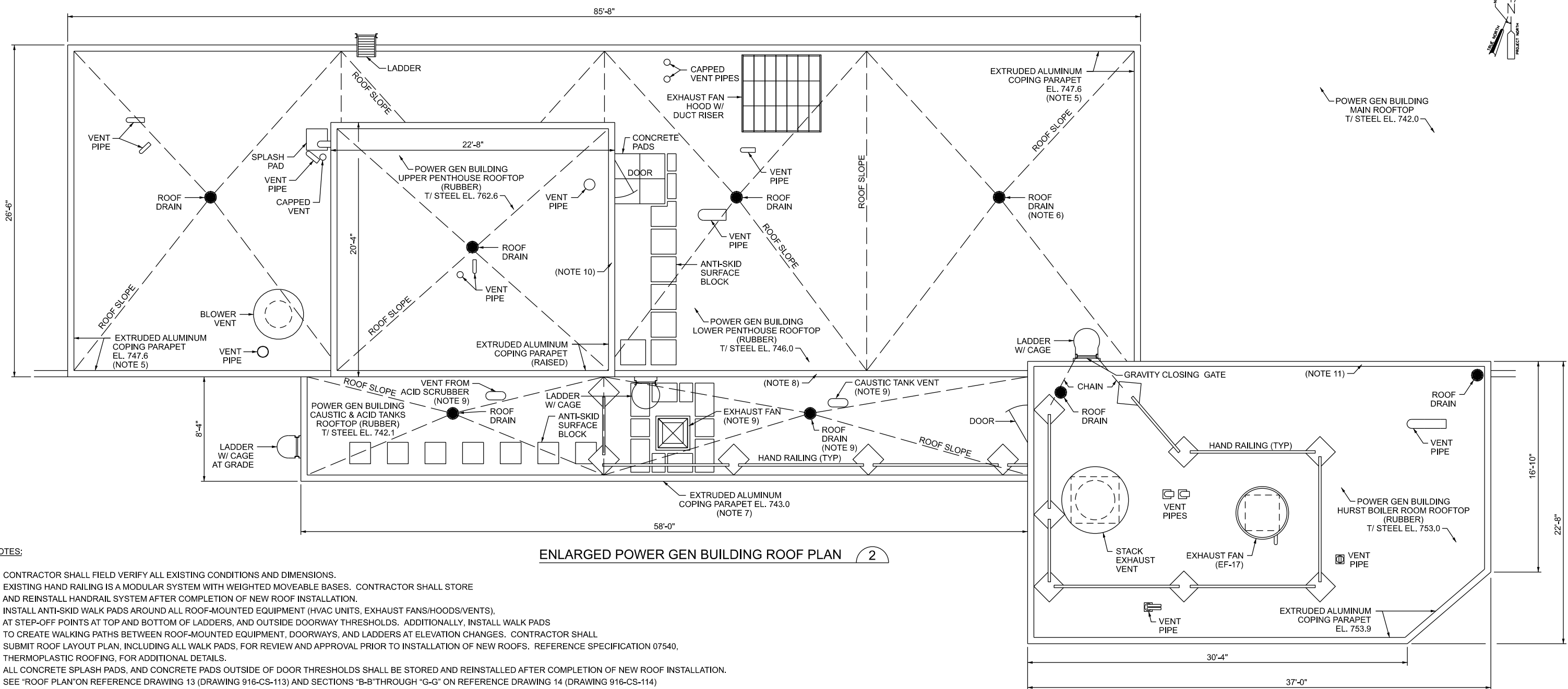
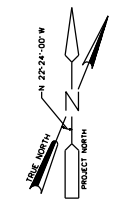
ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
ROOF MODIFICATIONS

411-A-01
OVERALL POWER GEN BUILDING
ASBUILT ROOF PLAN



ENLARGED POWER GEN BUILDING ROOF PLAN 2

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
2. EXISTING HAND RAILING IS A MODULAR SYSTEM WITH WEIGHTED MOVEABLE BASES. CONTRACTOR SHALL STORE AND REINSTALL HANDRAIL SYSTEM AFTER COMPLETION OF NEW ROOF INSTALLATION.
3. INSTALL ANTI-SKID WALK PADS AROUND ALL ROOF-MOUNTED EQUIPMENT (HVAC UNITS, EXHAUST FANS/HOODS/VENTS), AT STEP-OFF POINTS AT TOP AND BOTTOM OF LADDERS, AND OUTSIDE DOORWAY THRESHOLDS. ADDITIONALLY, INSTALL WALK PADS TO CREATE WALKING PATHS BETWEEN ROOF-MOUNTED EQUIPMENT, DOORWAYS, AND LADDERS AT ELEVATION CHANGES. CONTRACTOR SHALL SUBMIT ROOF LAYOUT PLAN, INCLUDING ALL WALK PADS, FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF NEW ROOFS. REFERENCE SPECIFICATION 07540, THERMOPLASTIC ROOFING, FOR ADDITIONAL DETAILS.
4. ALL CONCRETE SPLASH PADS, AND CONCRETE PADS OUTSIDE OF DOOR THRESHOLDS SHALL BE STORED AND REINSTALLED AFTER COMPLETION OF NEW ROOF INSTALLATION.
5. SEE "ROOF PLAN" ON REFERENCE DRAWING 13 (DRAWING 916-CS-113) AND SECTIONS "B-B" THROUGH "G-G" ON REFERENCE DRAWING 14 (DRAWING 916-CS-114) FOR COPING AND METAL WALL PANEL DETAILS FOR LOWER PENTHOUSE, AND INTERFACE POINTS FOR METAL WALL PANELS AT MAIN ROOFTOP.
6. SEE "ROOF PLAN" AND "SECTION A-A" ON REFERENCE DRAWING 15 (916-M-191), AND "ROOF DRAIN DETAIL" ON REFERENCE DRAWING 16 (916-AE-003) FOR EXISTING DRAINS ON LOWER PENTHOUSE ROOFTOP.
7. SEE "ROOF PLAN" ON REFERENCE DRAWING 17 (DRAWING 916-AE-008) AND "SECTION A-A" ON REFERENCE DRAWING 18 (DRAWING 916-AE-009) FOR COPING AND METAL WALL PANEL DETAILS FOR CAUSTIC & ACID TANKS ROOFTOP.
8. SEE "ROOF PLAN" ON REFERENCE DRAWING 17 (DRAWING 916-AE-008) AND "SECTION B-B" ON REFERENCE DRAWING 18 (DRAWING 916-AE-009) FOR CONNECTION DETAILS FOR CAUSTIC & ACID TANKS ROOFTOP AT INTERFACE WITH LOWER PENTHOUSE ROOFTOP METAL WALL PANELS.
9. SEE "ROOF PLAN" ON REFERENCE DRAWING 17 (DRAWING 916-AE-008) AND REFERENCE DRAWING 18 (DRAWING 916-AE-009) FOR EXHAUST FAN ROOF PENETRATION, EXISTING DRAIN, AND TANK VENT/PIPE SLEEVE DETAILS FOR CAUSTIC & ACID TANKS ROOFTOP.
10. SEE REFERENCE DRAWINGS 19 THROUGH 21 (CONTRACT 1220, DRAWINGS 411-A1, 411-A2, AND 411-S3) FOR DETAILS OF UPPER PENTHOUSE ROOFTOP (COPING, DRAIN, AND INTERFACE AT METAL WALL PANELS AND LOWER PENTHOUSE ROOFTOP).
11. SEE REFERENCE DRAWINGS 22 THROUGH 24 (CONTRACT 1254, DRAWINGS 411-S-06, 411-S-07, AND 411-S-10) FOR DETAILS OF HURST BOILER ROOM ROOFTOP (COPING, DRAINS, AND INTERFACE AT METAL WALL PANELS AND LOWER PENTHOUSE ROOFTOP AND CAUSTIC & ACID TANKS ROOFTOP).
12. ALCOSAN PLANT ELEVATION AT GRADE IS 727.0

Designed by: E. JOYCE	REVISION		
Drawn by: K. WILCOX	REV No.	DATE	DESCRIPTION
Checked by: S. MILLER	APPV		

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

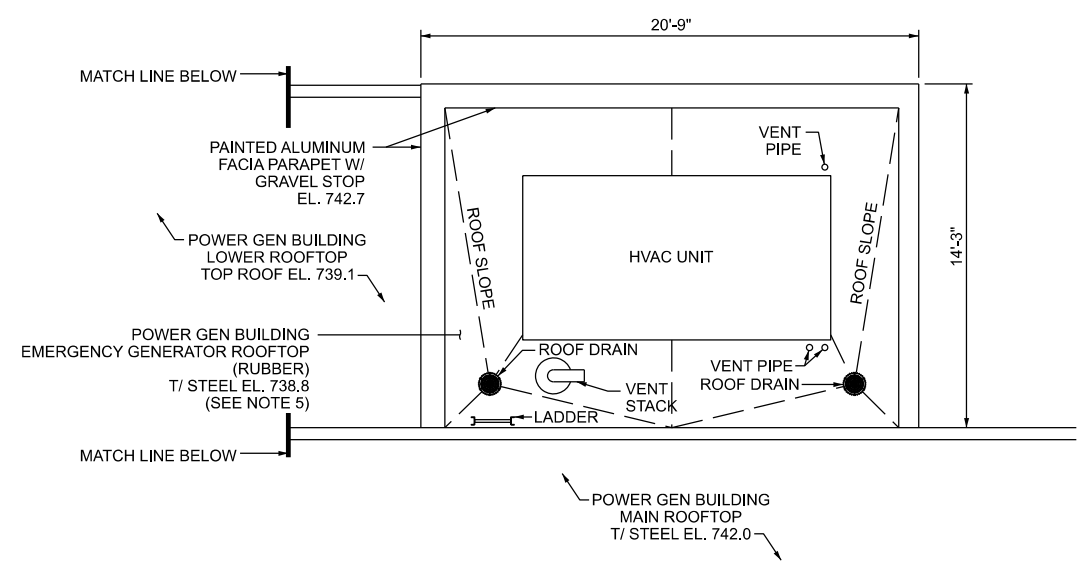
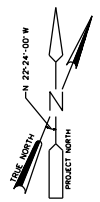
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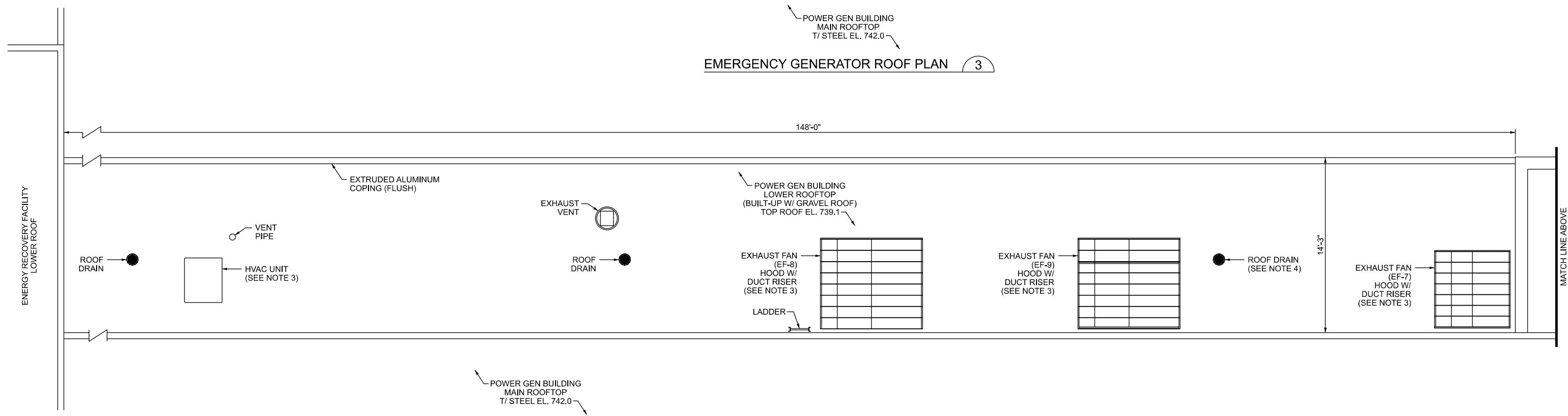
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
ROOF MODIFICATIONS

411-A-02
ENLARGED POWER GEN BUILDING
ASBUILT ROOF PLAN

Contract:	1714
CAD File Name:	411-ASBUILT-02.DGN
Date:	04/09/2020
Sheet:	5 of 32

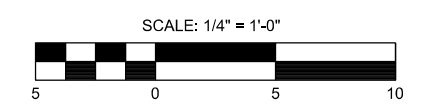


EMERGENCY GENERATOR ROOF PLAN 3

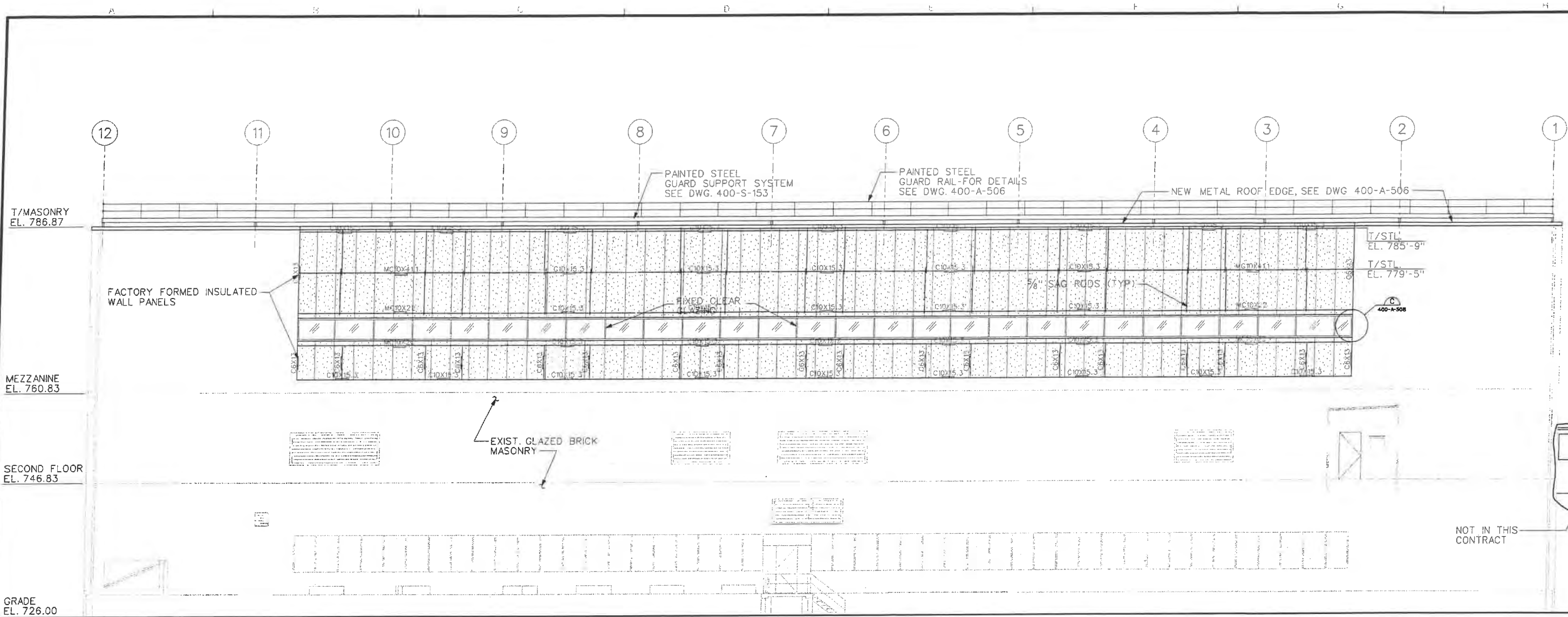


LOWER POWER GEN BUILDING ROOF PLAN 3

- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 2. INSTALL ANTI-SKID WALK PADS AROUND ALL ROOF MOUNTED EQUIPMENT (HVAC UNITS, EXHAUST FANS/HOODS/VENTS), AND AT STEP-OFF POINTS AT TOP AND BOTTOM OF LADDERS. ADDITIONALLY INSTALL WALK PADS TO CREATE WALKING PATHS BETWEEN ROOF-MOUNTED EQUIPMENT AND LADDERS AT ELEVATION CHANGES. CONTRACTOR SHALL SUBMIT ROOF LAYOUT PLAN, INCLUDING ALL WALK PADS, FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF NEW ROOFS. REFERENCE SPECIFICATION 07540, THERMOPLASTIC ROOFING, FOR ADDITIONAL DETAILS.
 3. SEE "PARTIAL LOW ROOF PLAN" ON REFERENCE DRAWING 29 (DRAWING 1018-CS-130) AND SECTIONS "A-A" THROUGH "D-D", AND "H-H" ON REFERENCE DRAWING 30 (DRAWING 1018-CS-131) FOR ROOF PENETRATION DETAILS FOR EXHAUST FANS EF-7, EF-8, EF-9 AND THE HVAC UNIT ON THE LOWER ROOFTOP.
 4. SEE "ROOF PLAN" ON REFERENCE DRAWING 27 (SHEET N-1) FOR EXISTING ROOF DRAIN DETAILS.
 5. SEE "ROOF PLAN" ON REFERENCE DRAWING 25 (DRAWING 916-AE-006) AND DETAILS "B-B" THROUGH "F-F" ON REFERENCE DRAWING 26 (DRAWING 916-AE-007) FOR DETAILS OF EMERGENCY GENERATOR ROOFTOP.
 6. SOME DEBRIS & MOSS IS PRESENT ON LOWER ROOFTOP.
 7. ALCOSAN PLANT ELEVATION AT GRADE IS 727.0.



Designed by: E. JOYCE	REVISION			APPV				ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT ROOF MODIFICATIONS	Contract:
	REV No.	DATE	DESCRIPTION							1714
Drawn by: K. WILCOX								3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	411-ASBUILT-03 LOWER POWER GEN BUILDING & EMERGENCY GENERATOR ASBUILT ROOF PLAN	CAD File Name: 411-ASBUILT-03.DGN
Checked by: S. MILLER							www.alcosan.org	Date: 04/09/2020		Sheet: 6 of 32



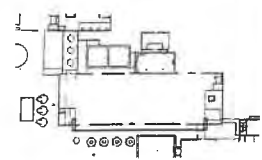
NOTE:
STEEL GIRTS BEHIND PANELS

T. FORSYTHE
DRAWN BY:
J. SEDER
CHECKED BY:
C. EASTER
EXAMINED BY:

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



400-A-105



REV.	DESCRIPTION	DATE	APP
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1			
2			
3			
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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
PITTSBURGH, PENNSYLVANIA

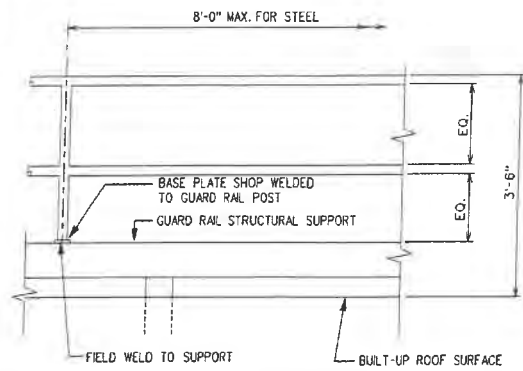
CONTRACT 1540

ARCHITECTURAL
EXTERIOR ELEVATION - SOUTH

SCALE: 1/8" = 1'-0" CONTRACT No. 1540 SHEET OF

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DATE PLOTTED: 12 APR 2000/17:53:24

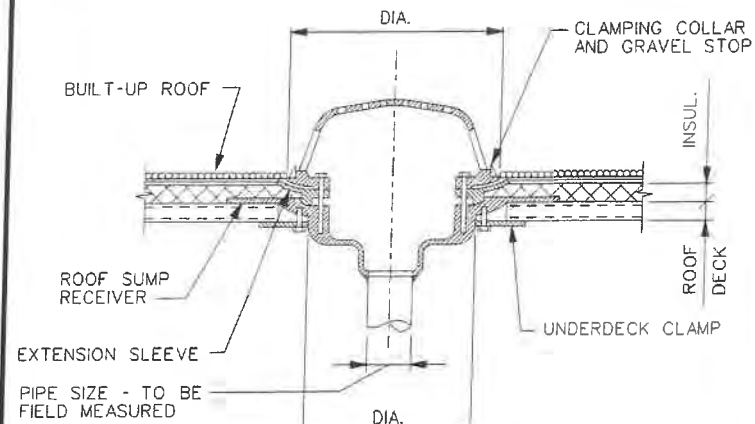
400-A-203



GUARD RAIL TYPICAL

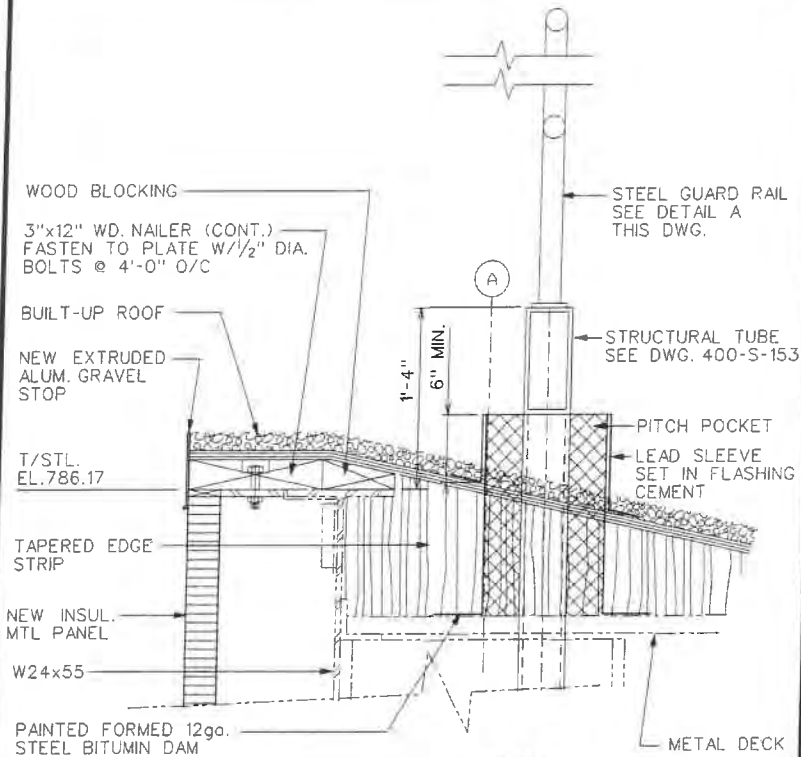
NOTES: RAILING SUPPLIER TO CERTIFY THAT DESIGN WILL MEET APPLICABLE CODES AND REGULATIONS.
 ALL RAILING SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 2" BETWEEN THE TOP RAIL AND ANY OTHER OBJECT.
 MATERIAL- RAILS AND POSTS:
 STEEL - 1/2" SCH. 40 PIPE
 FASTENERS:
 A325 HIGH STRENGTH BOLTS
 FINISHES- STEEL - PAINT PER SPECIFICATIONS
 WELDED PIPE RAILING - ALL WELDS GROUND SMOOTH TO A SATIN FINISH

DETAIL A
 NONE 400-A-506

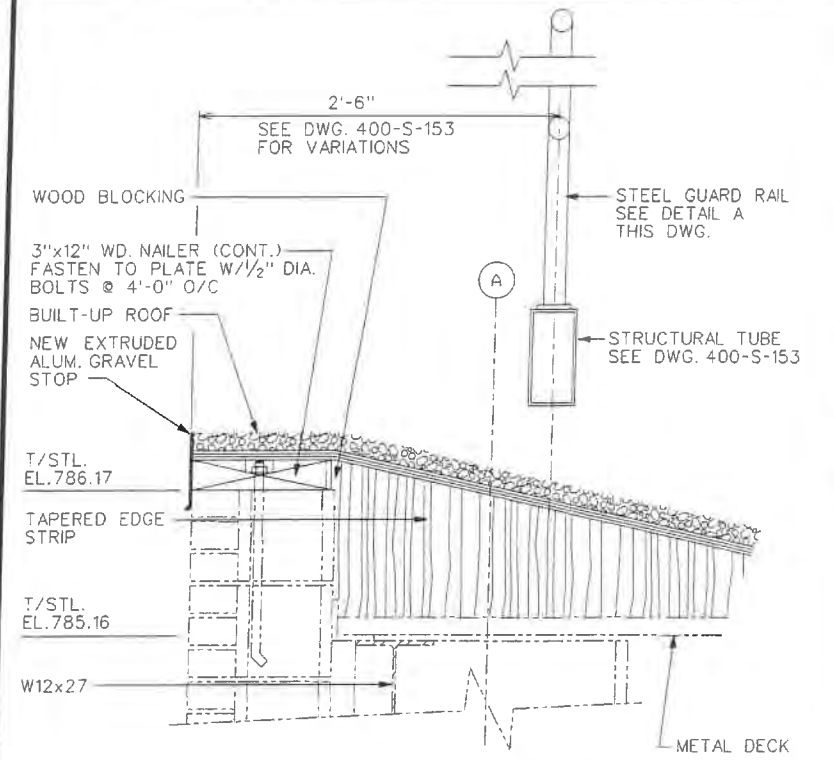


ROOF DRAIN
 DETAIL B

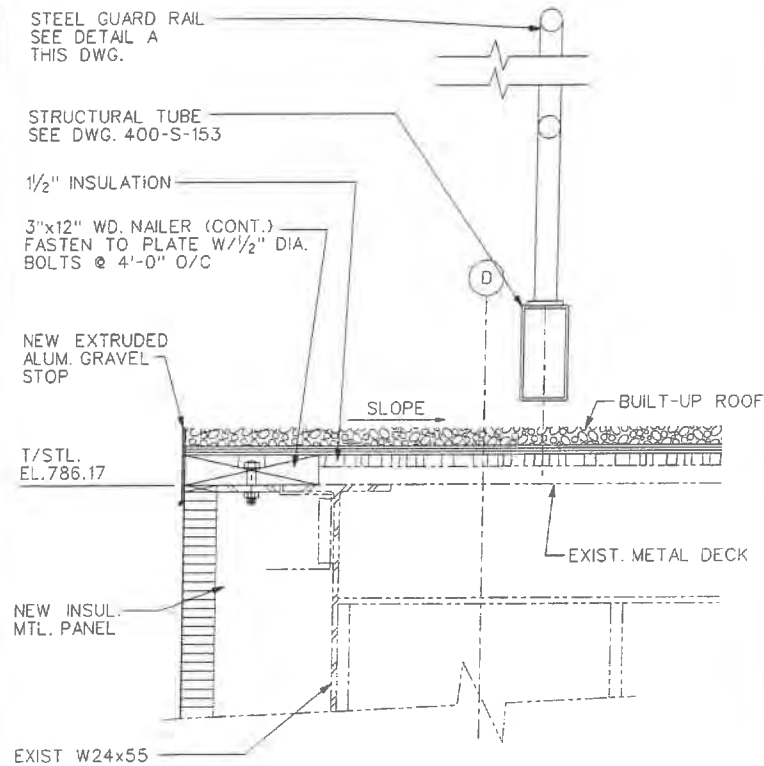
N.T.S. 400-A-105



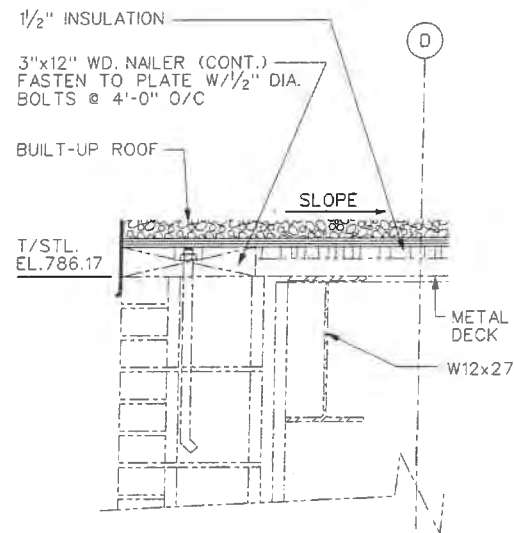
DETAIL C
 1/2" = 1'-0" 400-A-105
 400-ET-171



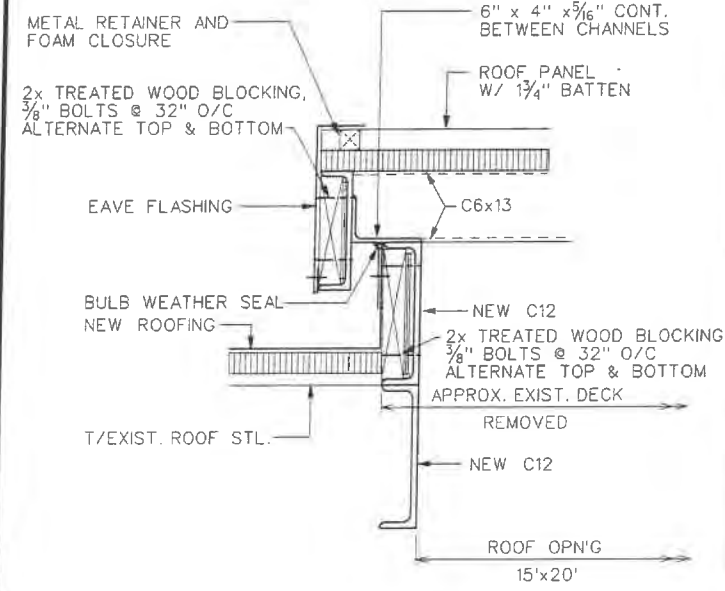
DETAIL D
 1/2" = 1'-0" 400-A-105



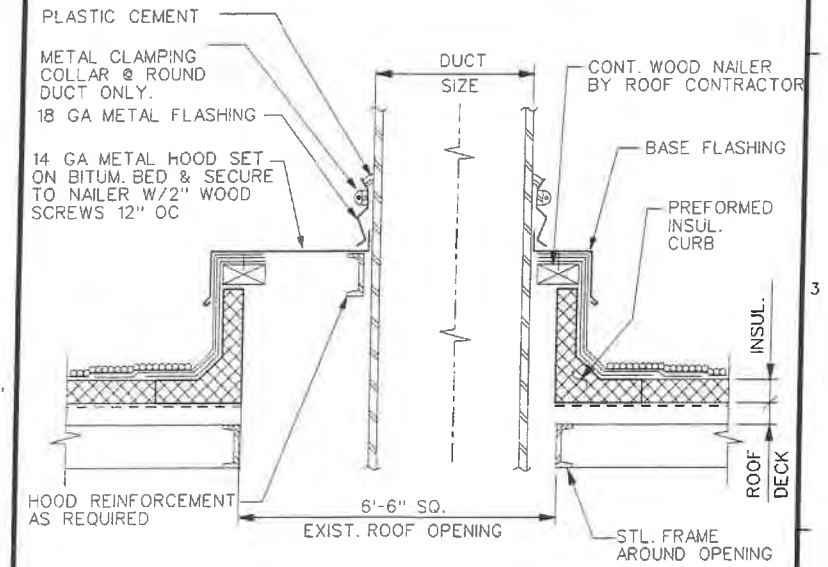
DETAIL E
 1/2" = 1'-0" 400-A-105



DETAIL F
 1/2" = 1'-0" 400-A-105



ROOF ACCESS HATCH
 DETAIL G
 1/2" = 1'-0" 400-A-105



DUCT PENETRATION
 DETAIL H
 N.T.S. 400-A-105

T. FORSYTHE
 DRAWN BY:
 J. SEDER
 CHECKED BY:
 C. EASTER
 EXAMINED BY:



REV.	DESCRIPTION	DATE	APP.
0			
1			
2			
3			
4			

ALLEGHENY COUNTY SANITARY AUTHORITY
 WASTEWATER TREATMENT PLANT
 PITTSBURGH, PENNSYLVANIA

CONTRACT 1540

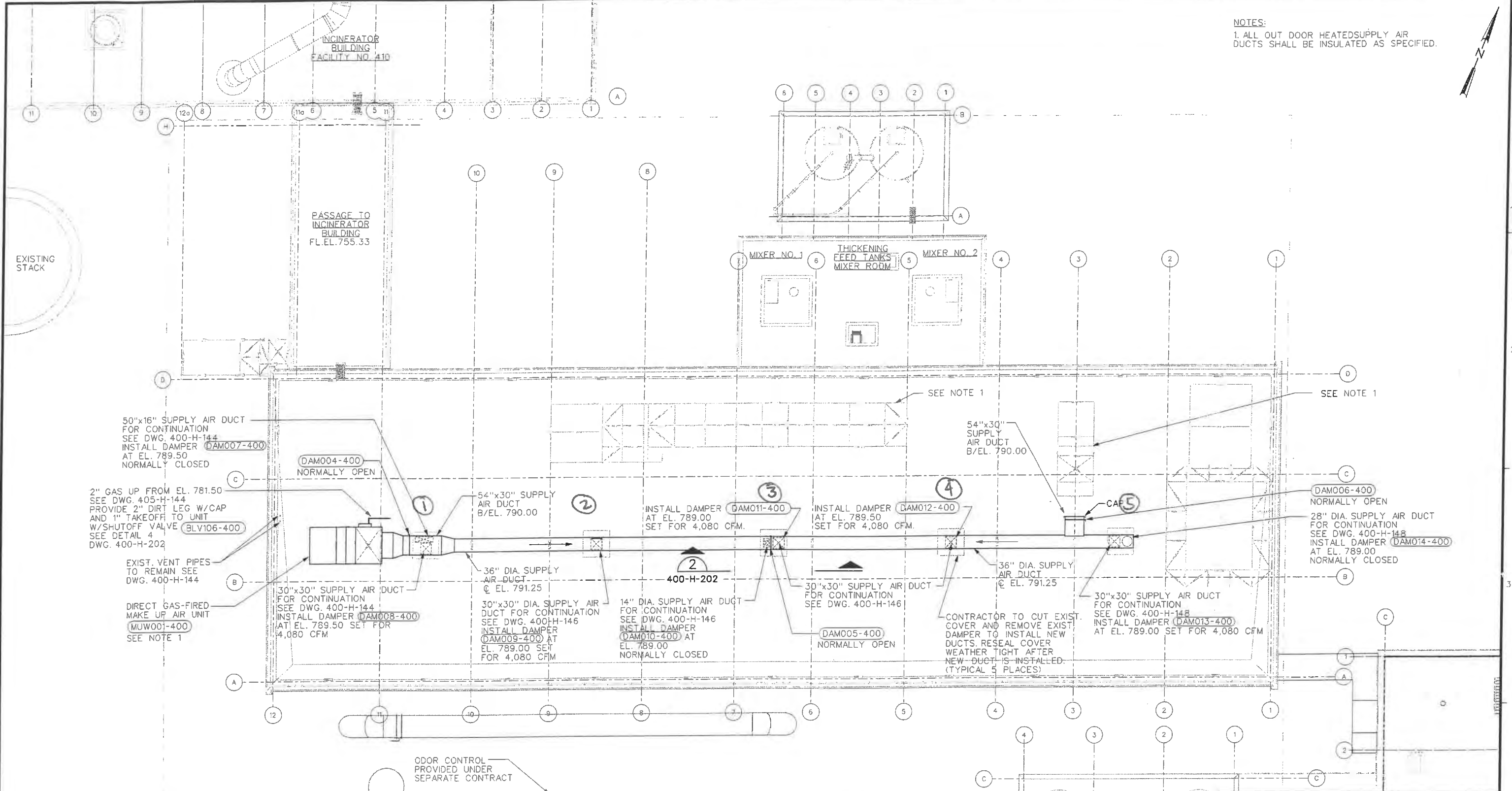
ARCHITECTURAL
 DETAILS

SCALE: AS NOTED CONTRACT No. 1540 SHEET OF

FILENAME: 223290\400A506 .P4A
 DATE PLOTTED: 12 APR 2000/16:53:59

400-A-506

NOTES:
 1. ALL OUT DOOR HEATED SUPPLY AIR DUCTS SHALL BE INSULATED AS SPECIFIED.



NOTE:
 1. FOR STRUCTURAL FRAMING OF FUTURE ROOF MOUNTED HVAC SEE DWG. 400-S-141

PLAN
 3/32" = 1'-0" 400-H-151

ALLEGHENY COUNTY SANITARY AUTHORITY
 WASTEWATER TREATMENT PLANT
 PITTSBURGH, PENNSYLVANIA

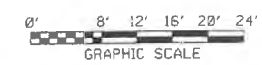
CONTRACT 1540

HVAC
 ROOF PLAN
 (EL. 796.00 TO 784.00)

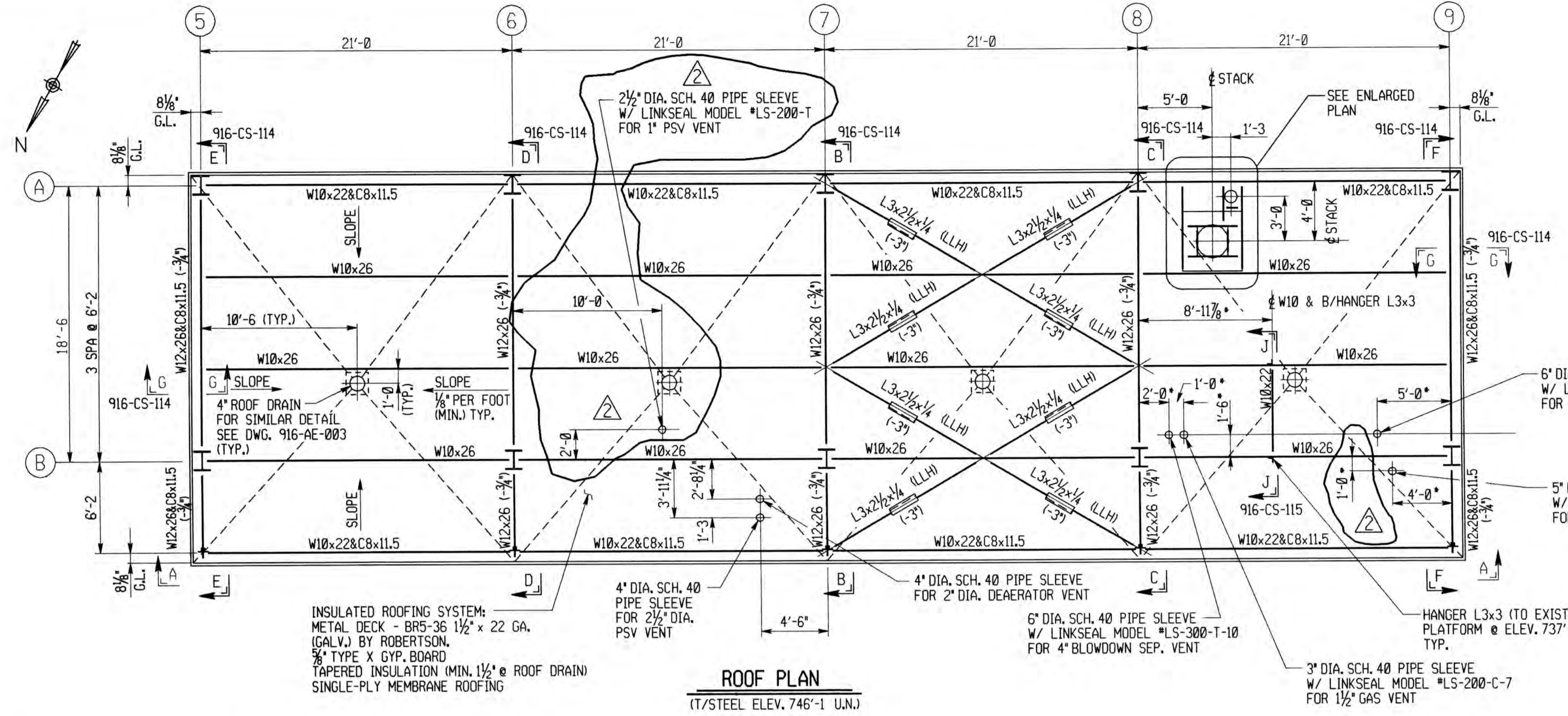
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FILENAME: 223290\400H151 .P4A
 DATE PLOTTED: 12 APR 2000/16:54:25 400-H-151

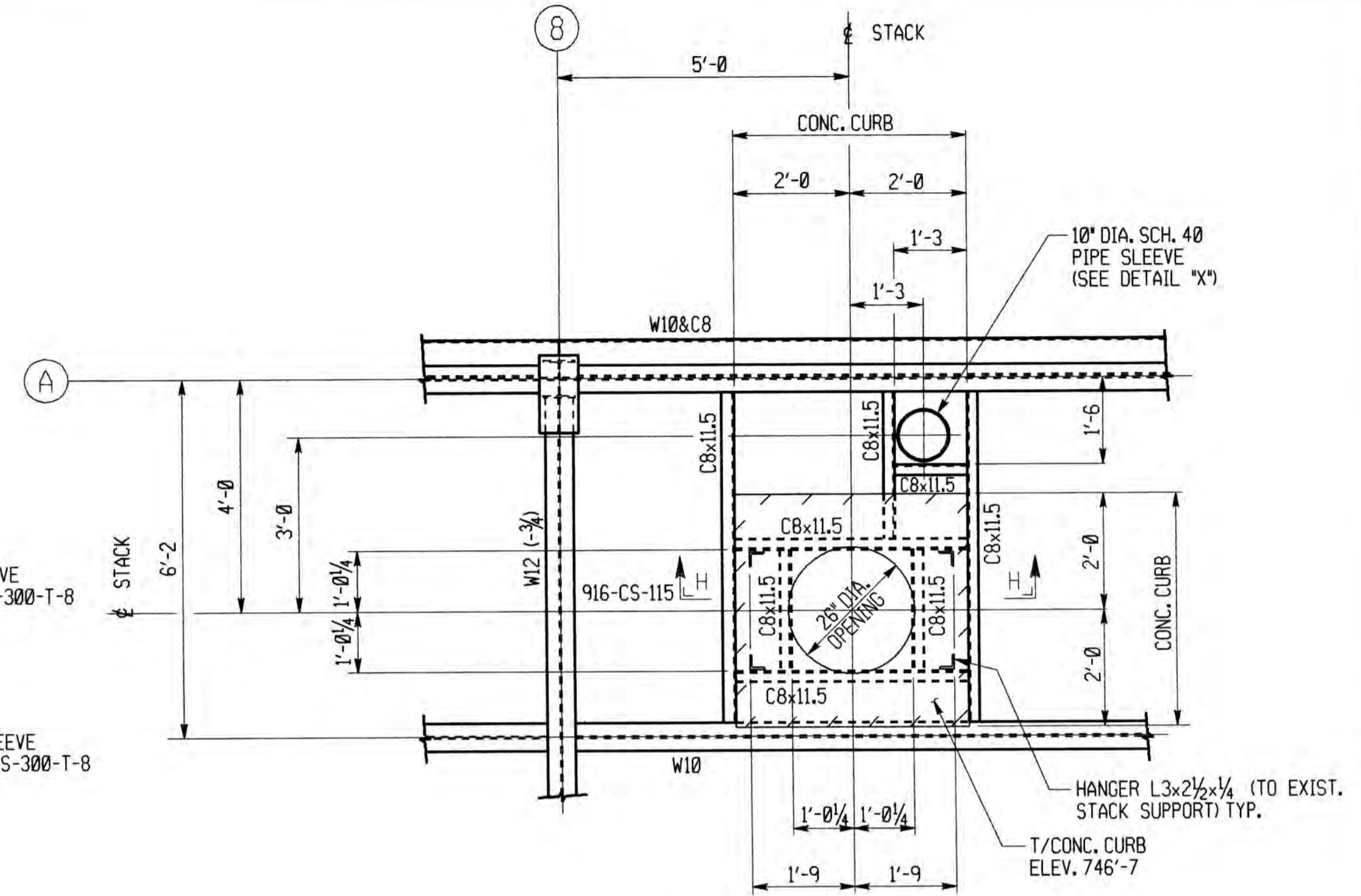
J. YINGST
 DRAWN BY:
 L. KOCH
 CHECKED BY:
 C. EASTER
 EXAMINED BY:



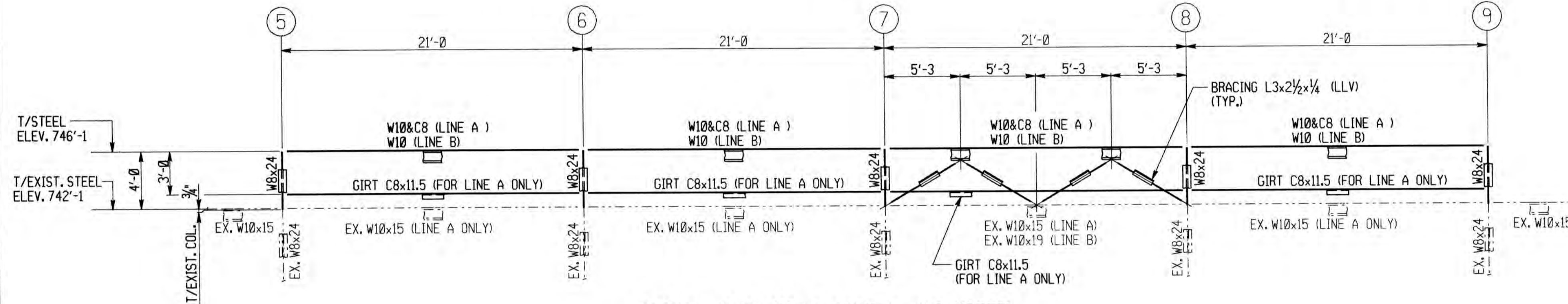
REV.	DESCRIPTION	DATE	APP.
0			
1			
2			
3			
4			



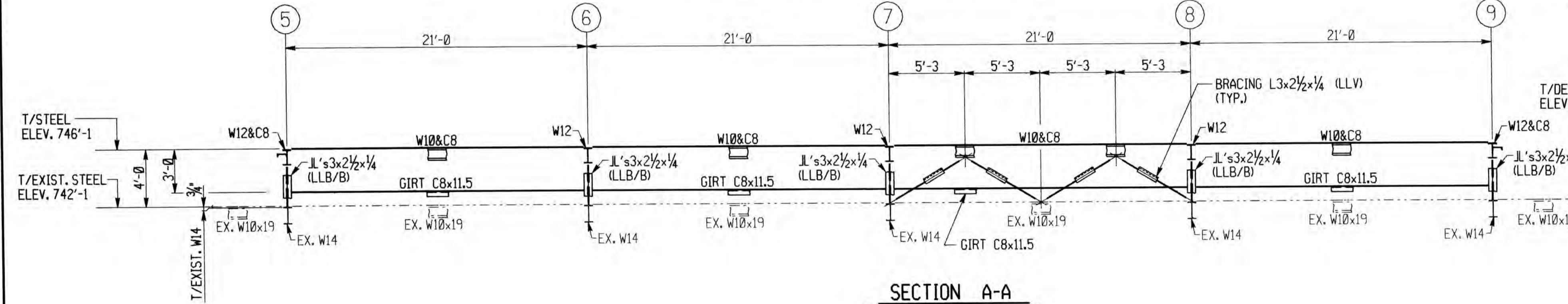
ROOF PLAN
(T/STEEL ELEV. 746'-1 U.N.)



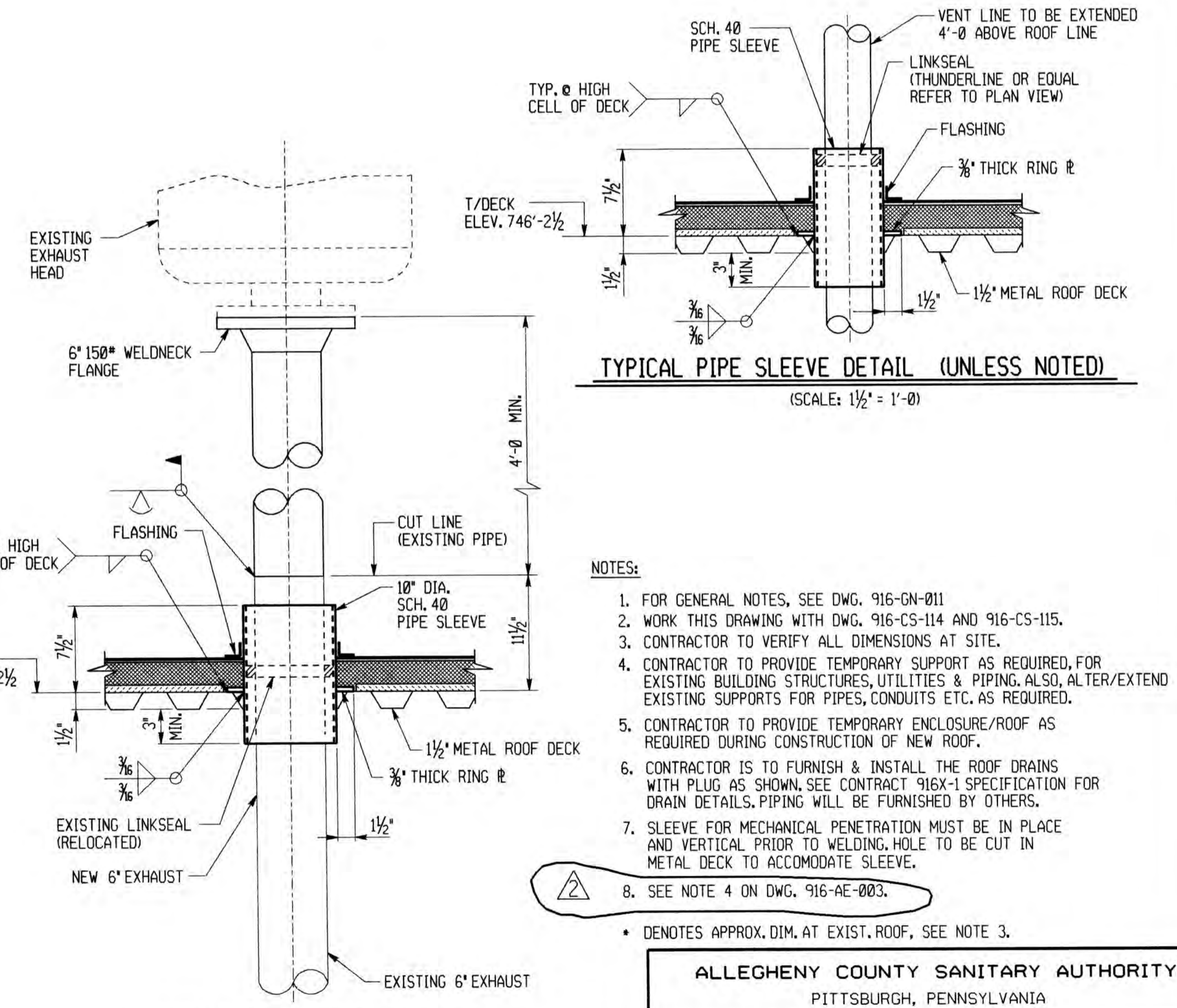
ENLARGED PLAN
(SCALE: 1/2" = 1'-0")



PARTIAL ELEVATION @ LINE A (AS NOTED)
(LOOKING SOUTH)
PARTIAL ELEVATION @ LINE B (AS NOTED)
(LOOKING SOUTH)



SECTION A-A



PIPE SLEEVE DETAIL "X"
(SCALE: 1/2" = 1'-0")

- NOTES:**
- FOR GENERAL NOTES, SEE DWG. 916-GN-011
 - WORK THIS DRAWING WITH DWG. 916-CS-114 AND 916-CS-115.
 - CONTRACTOR TO VERIFY ALL DIMENSIONS AT SITE.
 - CONTRACTOR TO PROVIDE TEMPORARY SUPPORT AS REQUIRED, FOR EXISTING BUILDING STRUCTURES, UTILITIES & PIPING. ALSO, ALTER/EXTEND EXISTING SUPPORTS FOR PIPES, CONDUITS ETC. AS REQUIRED.
 - CONTRACTOR TO PROVIDE TEMPORARY ENCLOSURE/ROOF AS REQUIRED DURING CONSTRUCTION OF NEW ROOF.
 - CONTRACTOR IS TO FURNISH & INSTALL THE ROOF DRAINS WITH PLUG AS SHOWN. SEE CONTRACT 916X-1 SPECIFICATION FOR DRAIN DETAILS. PIPING WILL BE FURNISHED BY OTHERS.
 - SLEEVE FOR MECHANICAL PENETRATION MUST BE IN PLACE AND VERTICAL PRIOR TO WELDING. HOLE TO BE CUT IN METAL DECK TO ACCOMMODATE SLEEVE.
 - SEE NOTE 4 ON DWG. 916-AE-003.
- DENOTES APPROX. DIM. AT EXIST. ROOF, SEE NOTE 3.

DRAWN BY JP
CHECKED BY BP
EXAMINED BY J
DATE PLOTTED 11-NOV-1993

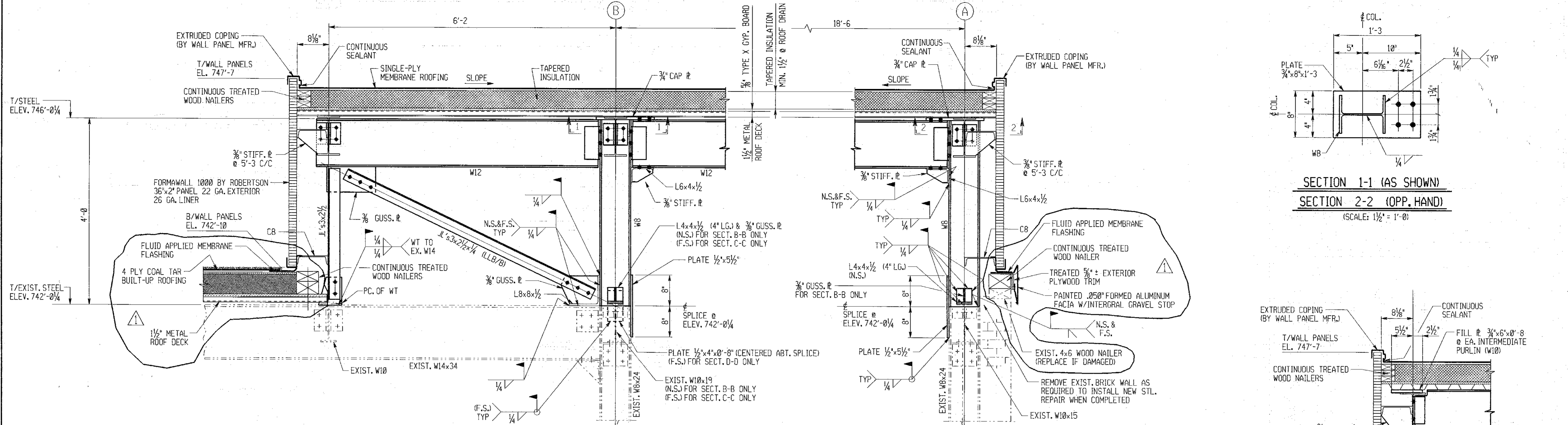


ICDS#	/usr/nms/dgn/916cs113.dgn	REV.	DESCRIPTION	DATE	APP.	APPROVED
SE DWG.#	916-CS-113	0	RELEASED W/CONTRACT 916X-1	7/93		
		1	RELEASED W/CONTRACT 916X-1 ADDENDUM No. 1	7/93		
		2	REVISED ROOF PENETRATIONS	11/93		
		3				

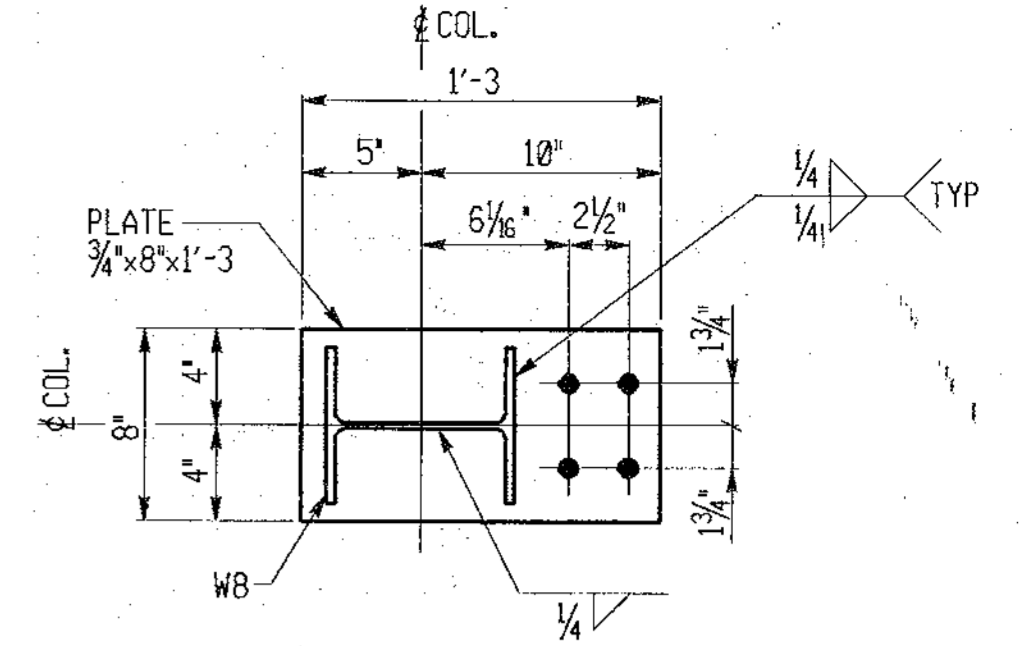
EXECUTIVE DIRECTOR,	PA. PE-026064-E	DATE
DIRECTOR OF ENGR. & CONST.,	PA. PE-19592-E	DATE

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

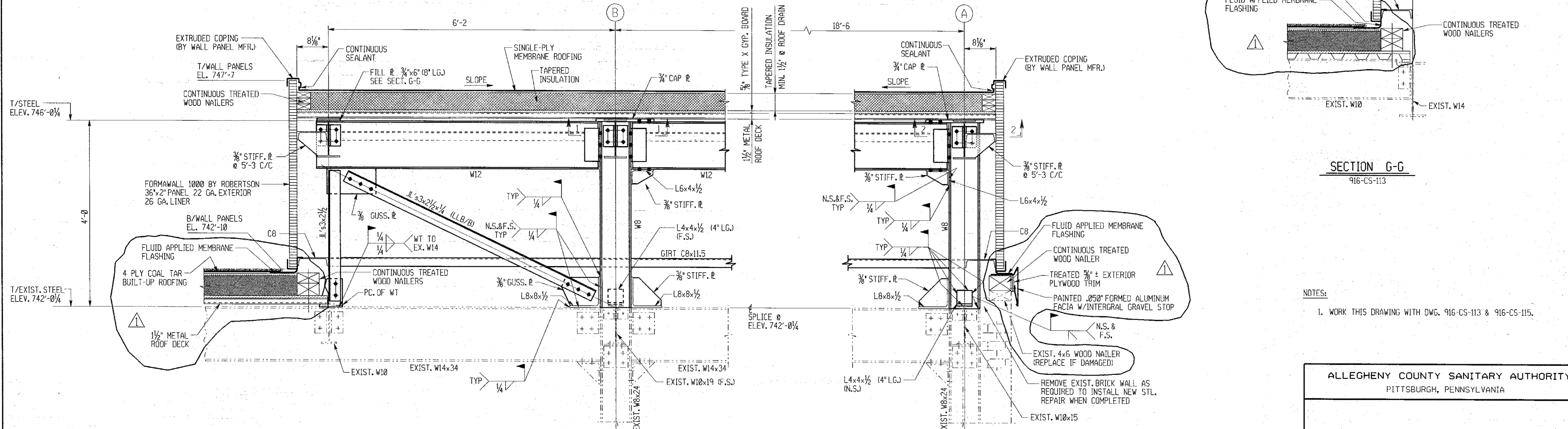
POWER GENERATION BUILDING
STRUCTURAL STEEL MODIFICATIONS
ROOF - LINES 5 TO 9
PLANS, ELEVATIONS & DETAILS



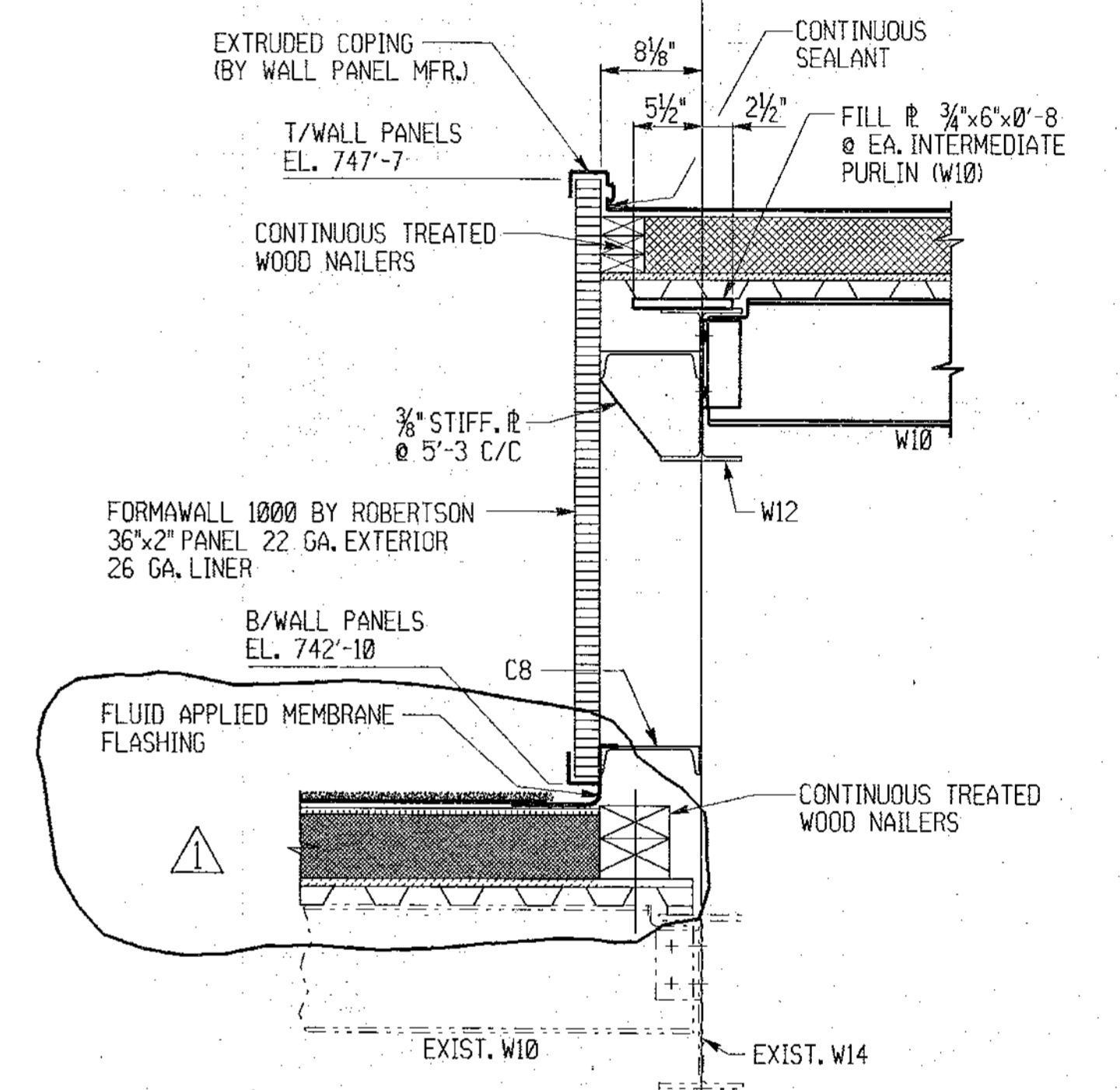
SECTION B-B (AS NOTED)
SECTION C-C (AS NOTED)
SECTION D-D (AS NOTED)
 916-CS-113



SECTION 1-1 (AS SHOWN)
SECTION 2-2 (OPP. HAND)
 (SCALE: 1/2\"/>



SECTION E-E (AS SHOWN)
SECTION F-F (OPP. HAND)
 916-CS-113



SECTION G-G
 916-CS-113

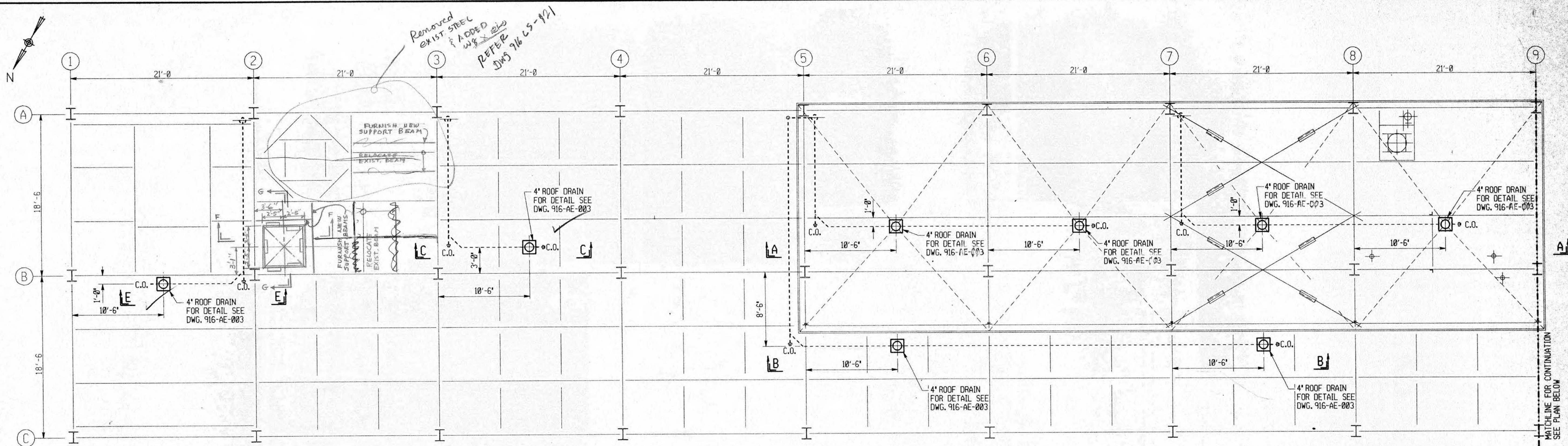
NOTES:
 1. WORK THIS DRAWING WITH DWG. 916-CS-113 & 916-CS-115.

ALLEGHENY COUNTY SANITARY AUTHORITY
 PITTSBURGH, PENNSYLVANIA

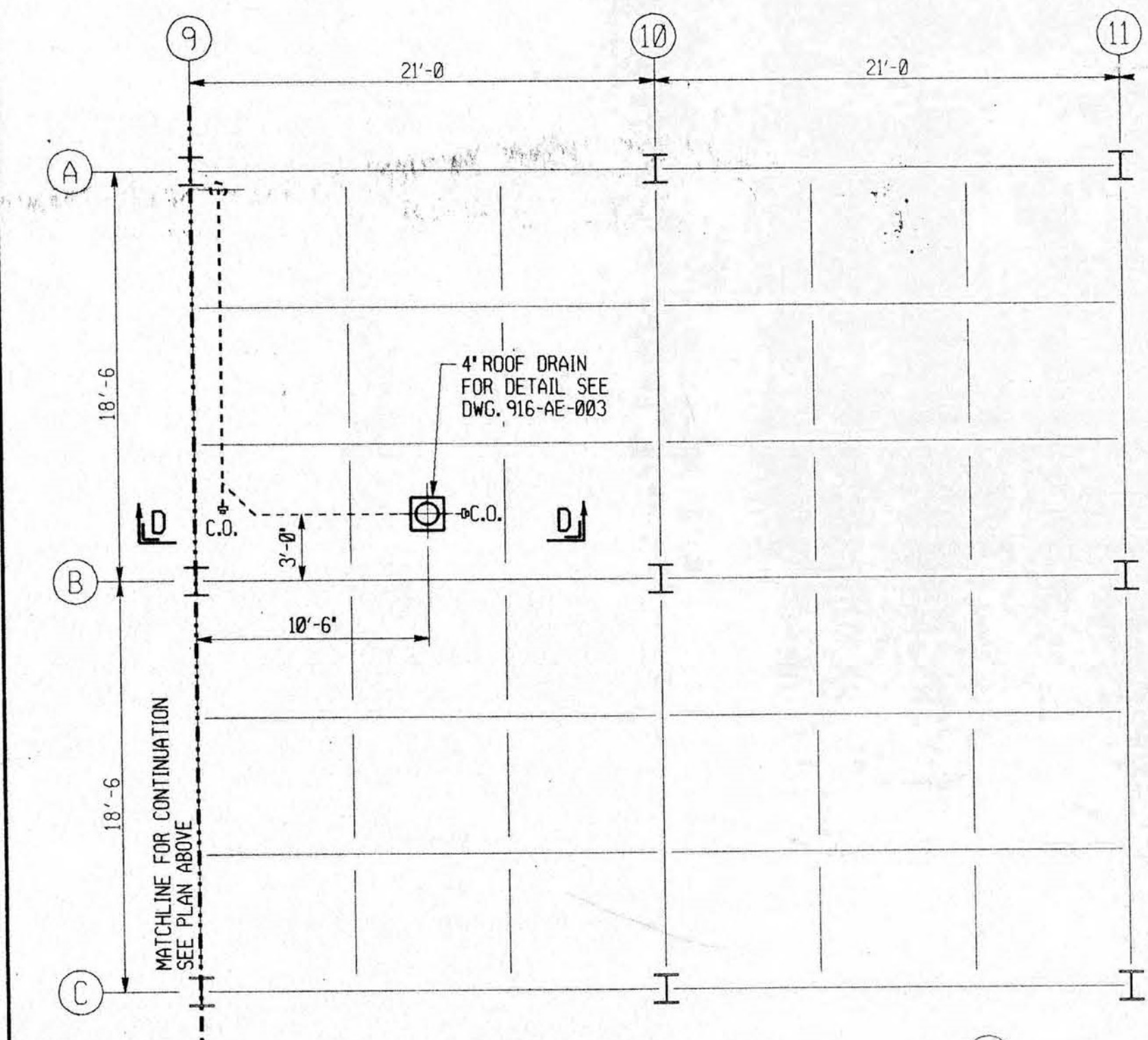
POWER GENERATION BUILDING
 STRUCTURAL STEEL MODIFICATIONS
 ROOF - LINES 5 TO 9
 SECTIONS

DRAWN BY JP
 CHECKED BY B.P.
 EXAMINED BY PVC
 DATE PLOTTED 22-JUL-1993

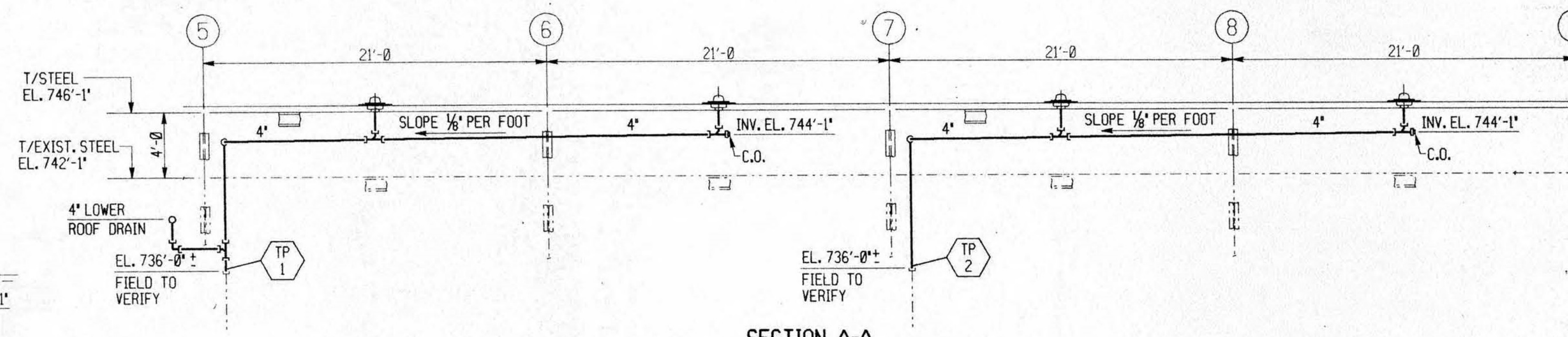
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	SE TECHNOLOGIES, INC.	1	RELEASED W/CONTRACT 916X-1 ADDENDUM No. 1	7/93		<i>Joseph N. Lepp</i> 7/26/93 DIRECTOR OF ENGR. & CONST. PA. PE#15592-E
		2				
		3				



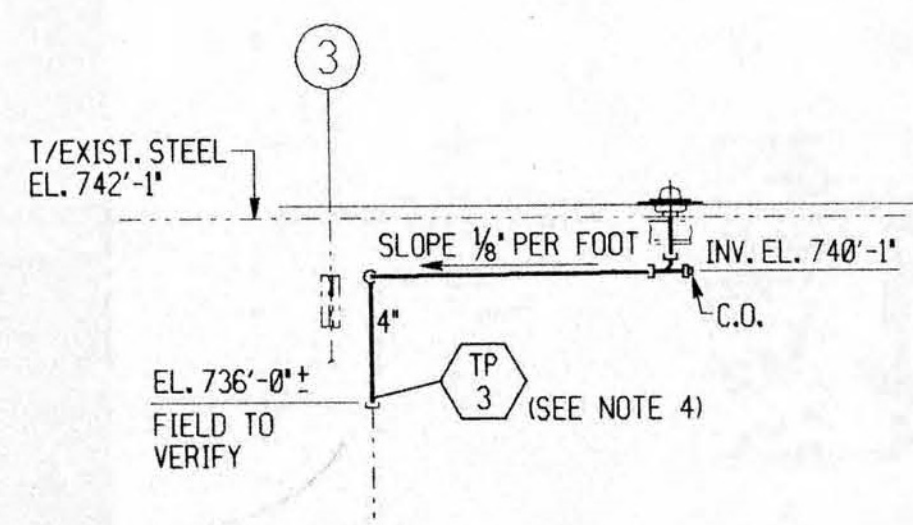
ROOF PLAN



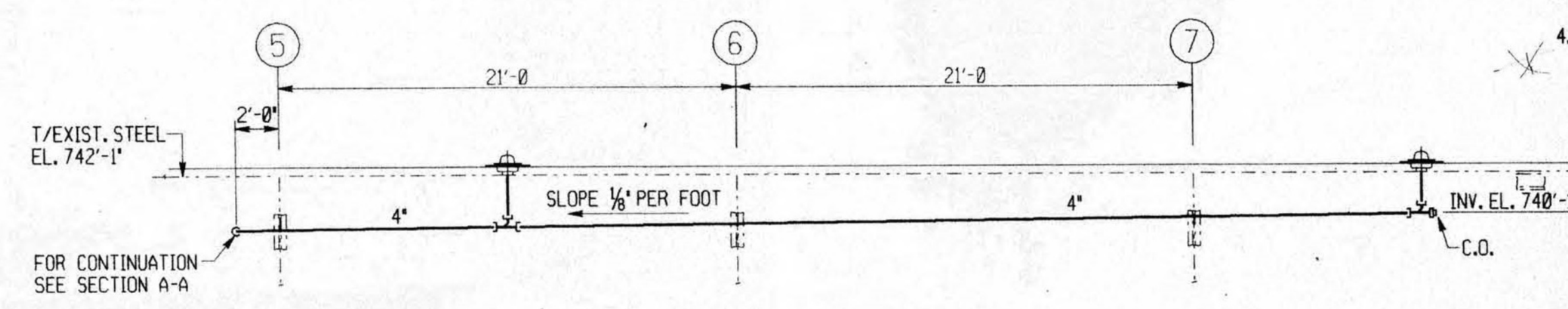
ROOF PLAN



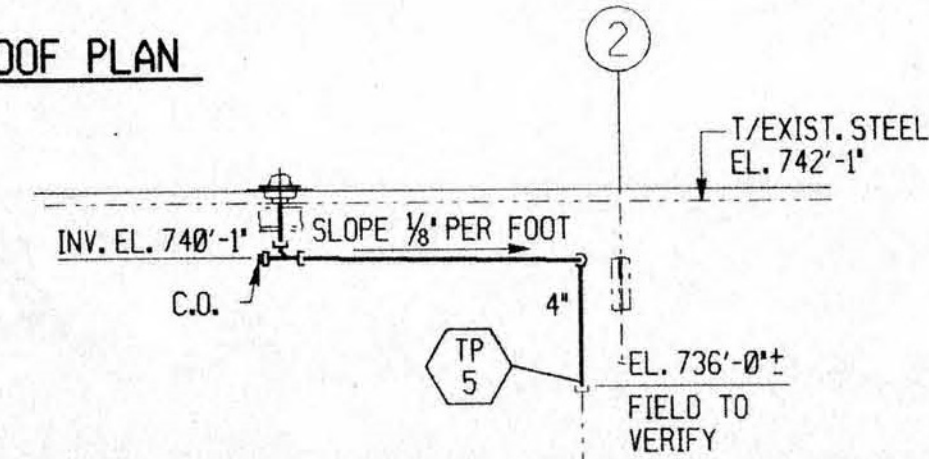
SECTION A-A



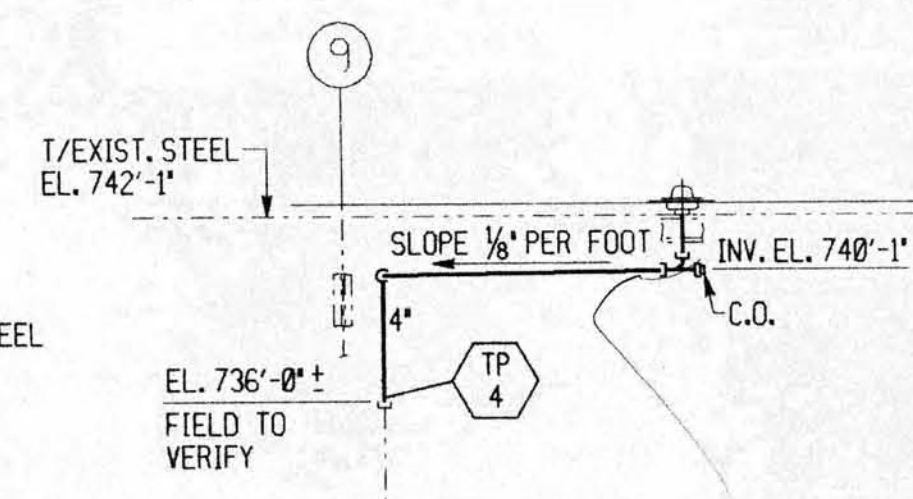
SECTION C-C



SECTION B-B



SECTION E-E



SECTION D-D

NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSION AND ELEVATIONS.
2. ROOF DRAIN PIPING MATERIALS SHALL BE PER SECTION 15050.
3. PIPE SUPPORTS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND GOOD PIPING PRACTICES.
4. CONTRACTOR SHALL REMOVE EXISTING ROOF DRAIN PIPING BACK TO ELEVATION SHOWN OR WHATEVER IS REQUIRED TO ELIMINATE SPOOL PIECE CONTAINING BRANCH CONNECTION FOR OLD PENTHOUSE ROOF DRAIN.

AS - BUILT
 CERTIFIED BY: _____
 CONSULTANTS: _____

ALLEGHENY COUNTY SANITARY AUTHORITY
 PITTSBURGH, PENNSYLVANIA

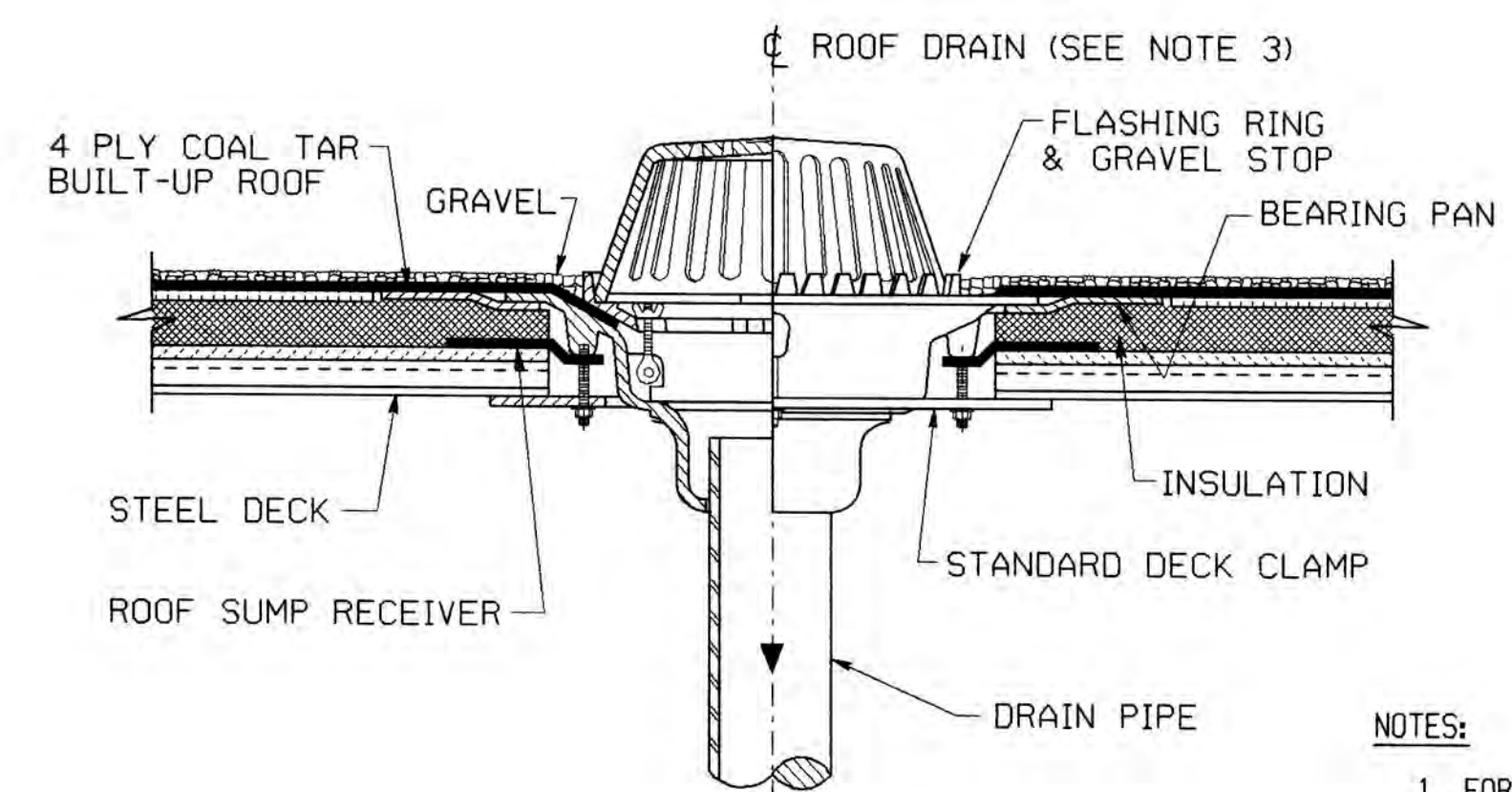
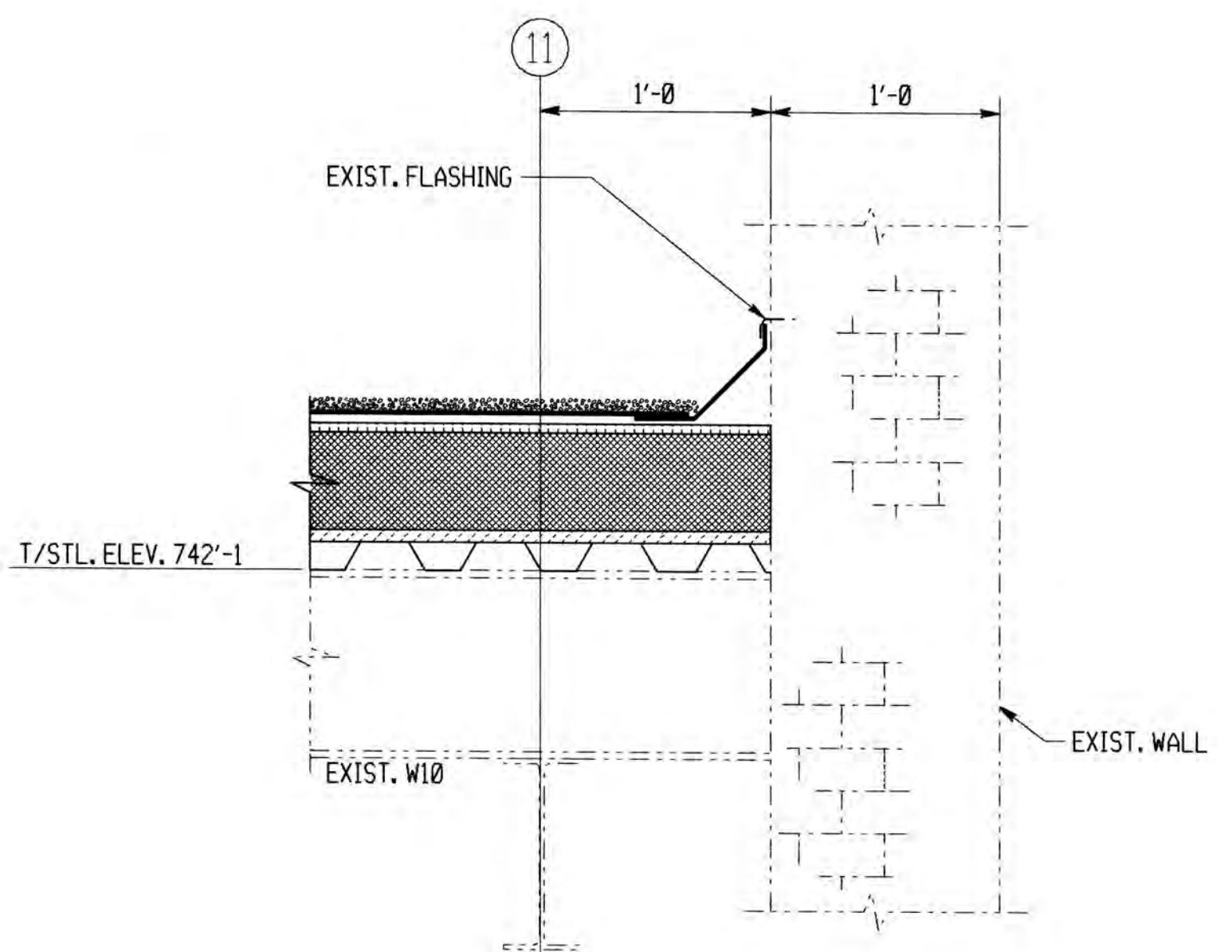
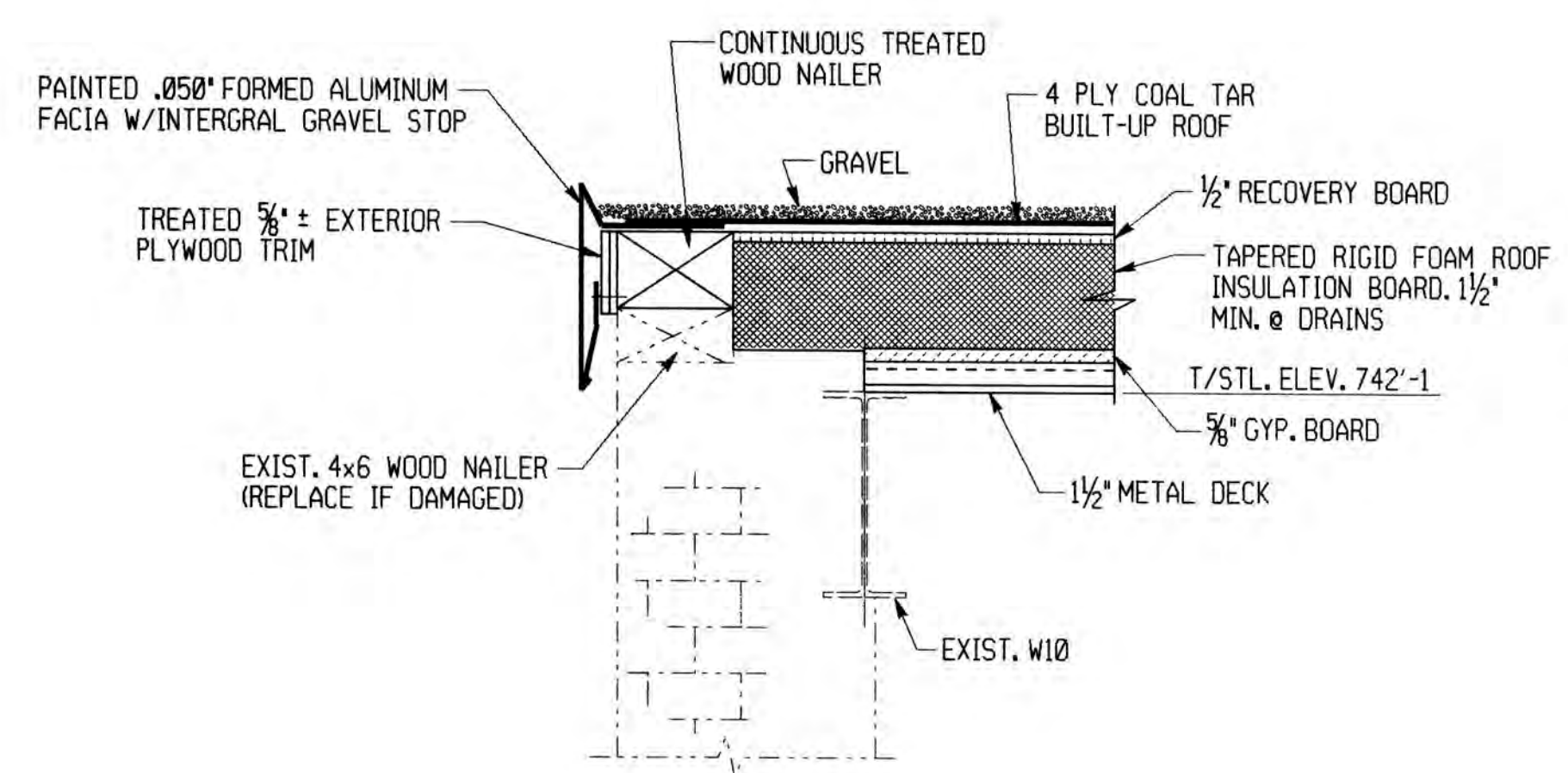
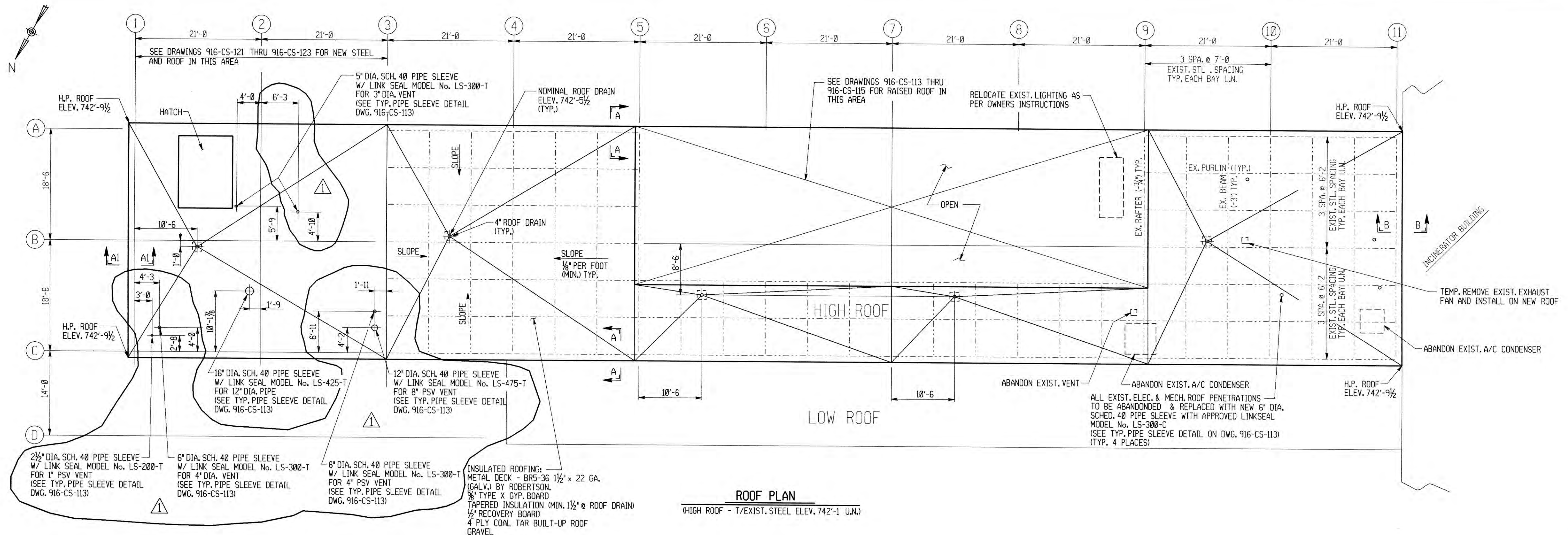
POWER GENERATION BUILDING
 MODIFICATIONS TO ROOF
 ROOF DRAINS
 PLANS, ELEVATIONS & DETAILS

IGDS* /usr/ezp/work/916m191.dgn
 SE DWG.* 916-M-191
SE TECHNOLOGIES, INC.
 ENGINEER
 7/26/93

REV.	DESCRIPTION	DATE	APP.
0	RELEASED W/CONTRACT 916X-1	7-93	
1	RELEASED W/CONTRACT 916X-1 ADDENDUM #1 - GENERAL REVISION	7-93	
2			
3			

APPROVED
 William C. Trapp
 EXECUTIVE DIRECTOR, PA. PE-026064
 7/26/93
 Joseph W. Stenberg
 DIRECTOR OF ENGR. & CONST., PA. PE-19592-E
 7/26/93

DRAWN BY: WJM
 CHECKED BY: DPK
 EXAMINED BY: GMS
 DATE PLOTTED: 22-JUL-1993



- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 916-GN-011.
 2. SEE NOTES 3 TO 7 ON DWG. 916-CS-113.
 3. ROOF DRAINS: TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. MODEL No. Z-100 ERC AS MANUFACTURED BY ZURN CORP. OR OWNER APPROVED EQUAL. DRAINS SHALL BE CAST IRON WITH THREADED OR CAULKED BOTTOM OUTLET, AS REQUIRED, FLANGED BODY, REMOVABLE DOME STRAINER, NONPUNCTURE TYPE FLASHING RING WITH INTEGRAL GRAVEL STOP, ROOF SUMP RECEIVER, DECK CLAMP AND BODY EXTENSION.
 4. FINAL LOCATION OF ROOF PENETRATIONS TO BE APPROVED BY OWNER PRIOR TO INSTALLATION OF PIPE SLEEVE. ALL LINKSEALS NOT PRESENTLY USED TO BE TURNED OVER TO OWNER.

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

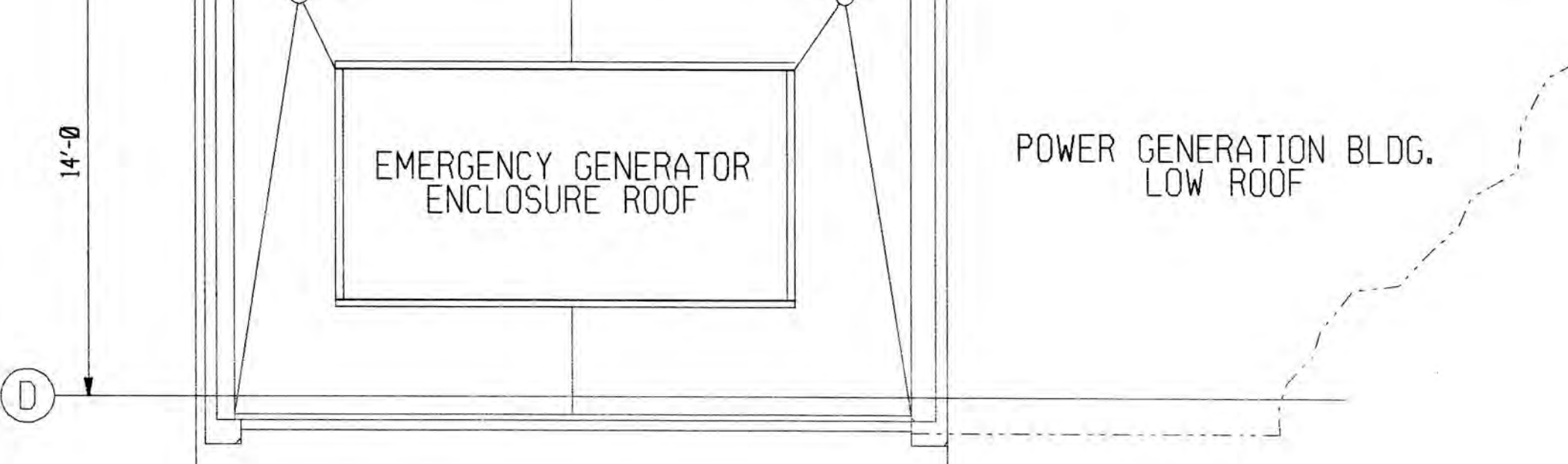
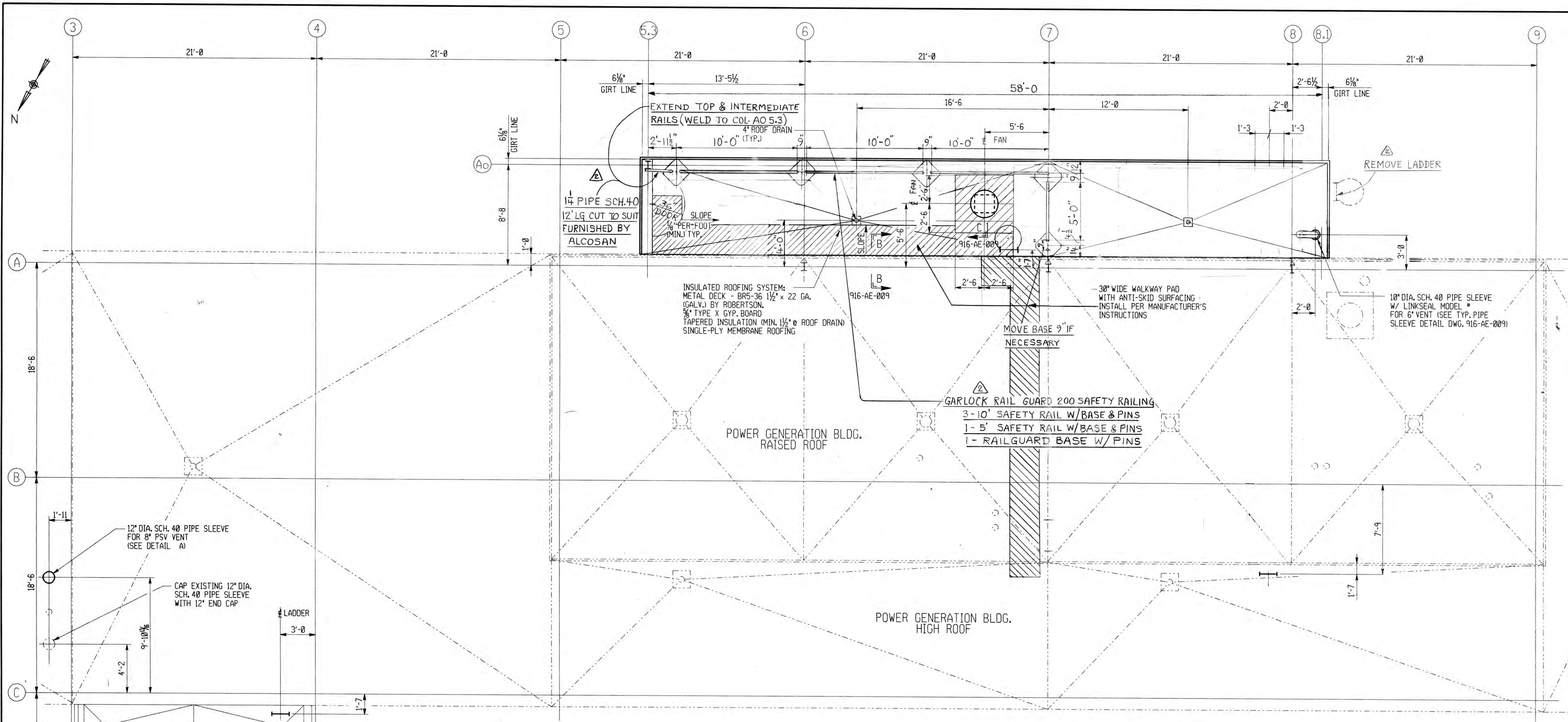
POWER GENERATION BUILDING
ARCHITECTURAL
ROOF REPLACEMENT
PLAN, SECTIONS & DETAIL

REV.	DESCRIPTION	DATE	APP.	APPROVED
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1	REVISED ROOF PENETRATIONS	11/93		
2				
3				

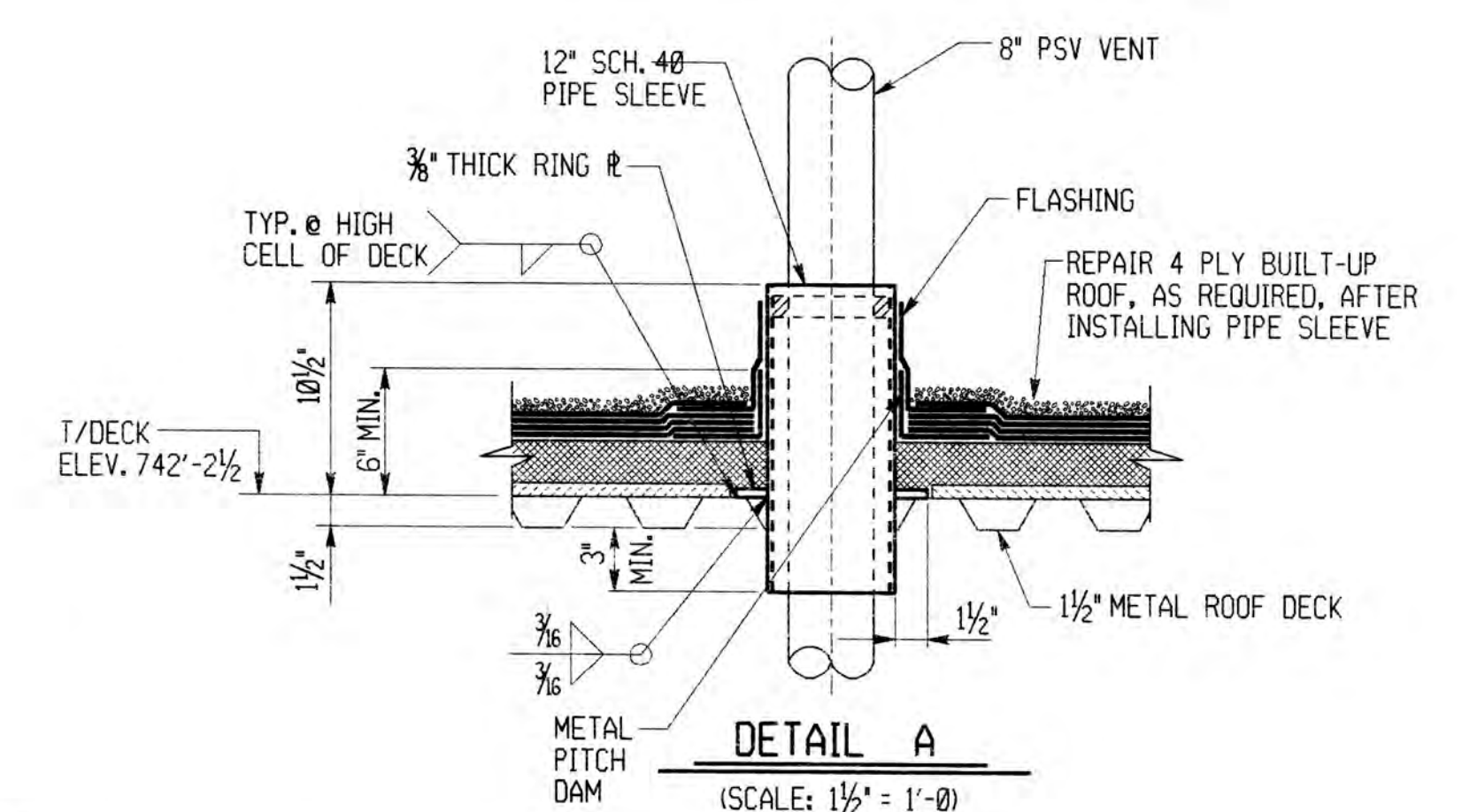
IGDS* /usr/nms/dgn/916ae003.dgn
SE DWG.# 916-AE-003
PARESH CHINIWALLA
SE TECHNOLOGIES, INC.
SCALE: 1/8" = 1'-0" U.N. CONTRACT 916X-1 SHEET 19 OF 19

DRAWN BY JP
CHECKED BY GP
EXAMINED BY
DATE PLOTTED 11-NOV-1993

SE CONTRACT NO. 920557



ROOF PLAN



△ GENERAL REVISION

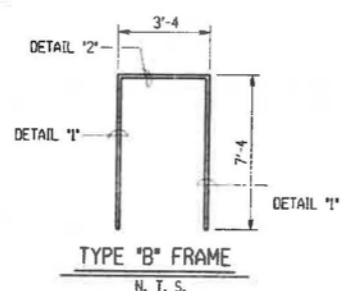
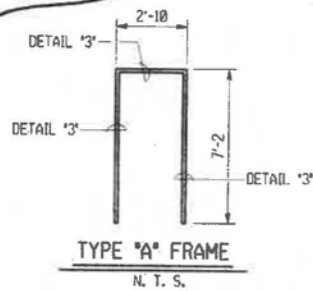
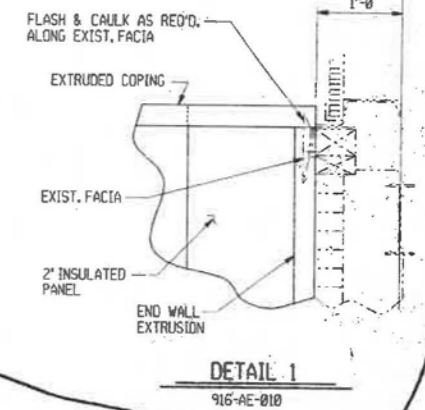
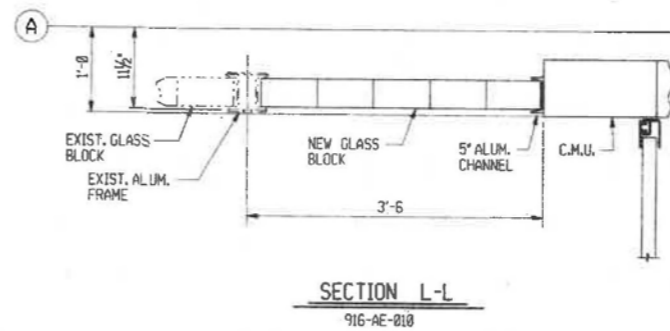
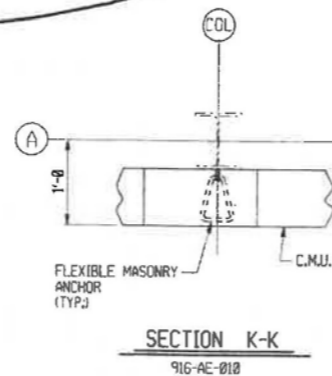
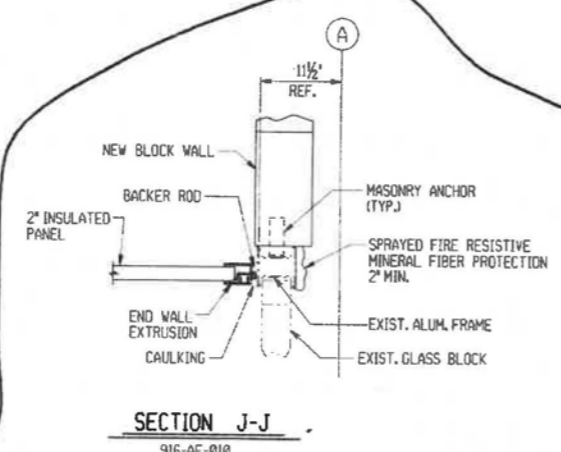
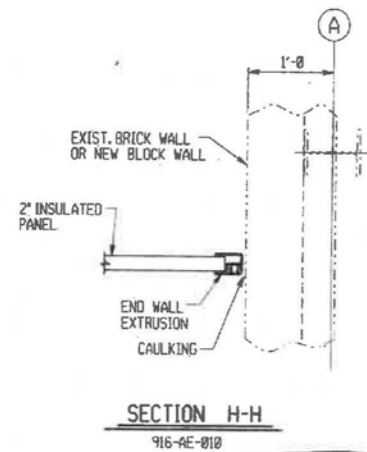
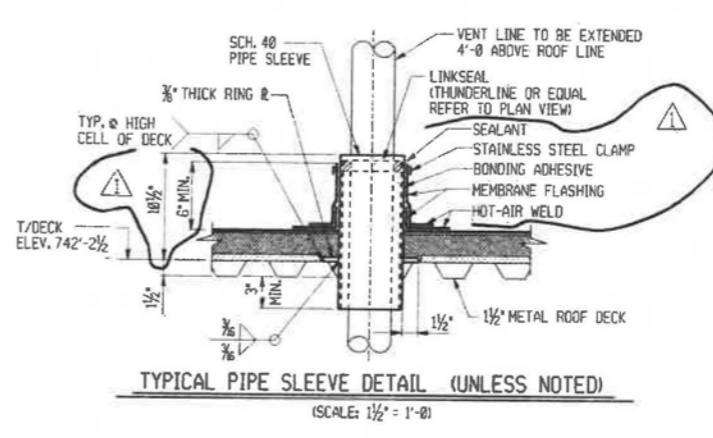
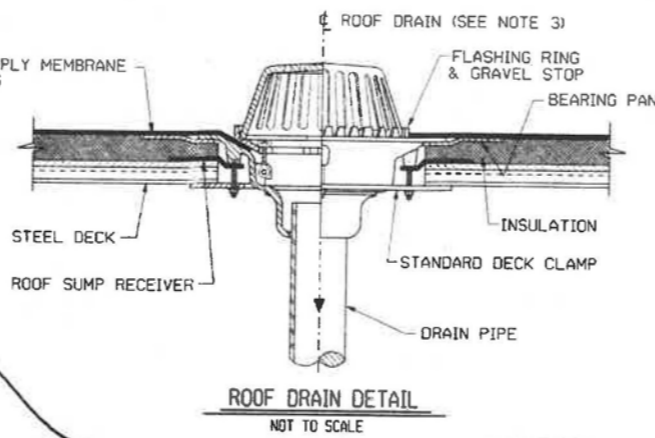
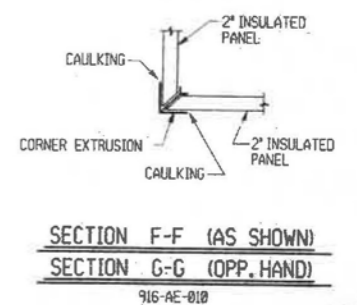
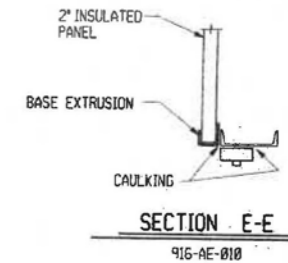
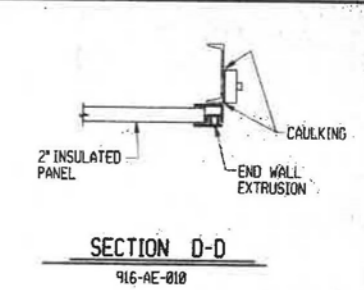
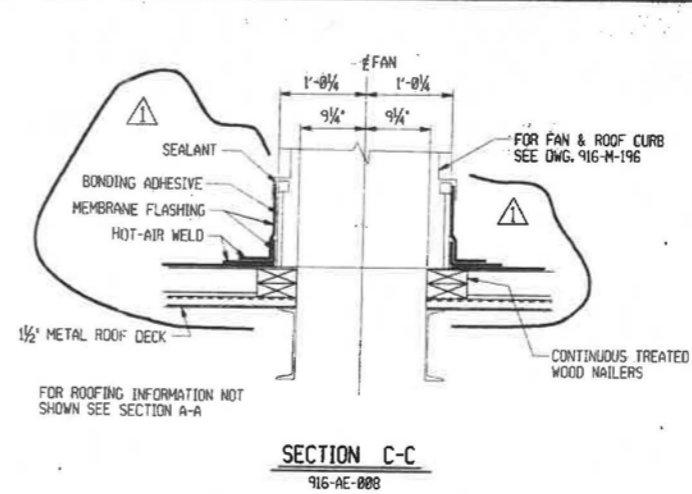
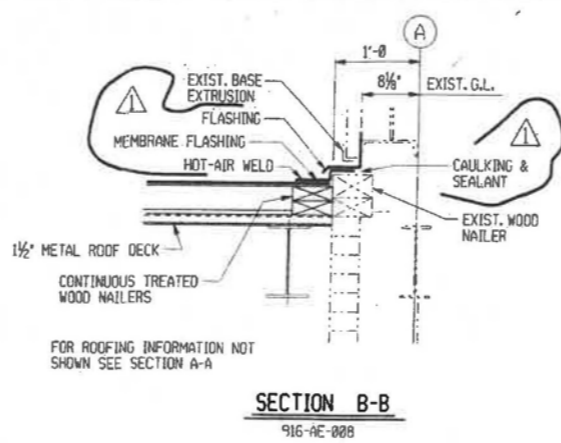
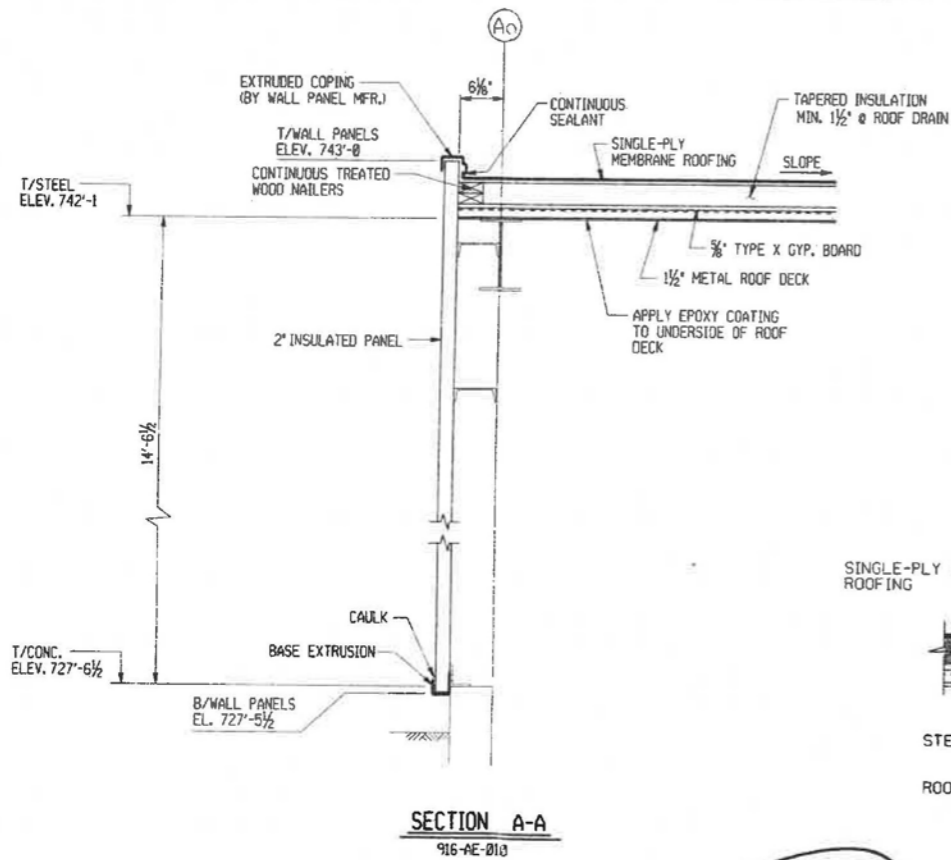
- NOTES:**
- FOR GENERAL NOTES, SEE DWG. 916-GN-015.
 - WORK THIS DRAWING WITH DWG. 916-AE-009, 916-AE-010, 916-CF-026, 916-CS-136, 916-CS-137 & 916-CS-138.

DRAWN BY JP
 CHECKED BY CEM
 EXAMINED BY
 DATE PLOTTED 28-JAN-1994

	IGDS# /usr/nms/dgn/916ae008.dgn	REV.	DESCRIPTION	DATE	APP.	APPROVED
	SE DWG.# 916-AE-008	0	RELEASED WITH CONTRACT 916W-1	1-20-94		William C. Trudy
	SE TECHNOLOGIES, INC.	1	RELEASED WITH CONTRACT 916W-1 ADDENDUM #1	1-94		EXECUTIVE DIRECTOR, PA.PE.06064-E
		2	ADD RAILING / REMOVE LADDER	6-30-04	JF	Director of ENGR. & CONST. PA. PE-19592-E

ALLEGHENY COUNTY SANITARY AUTHORITY
 PITTSBURGH, PENNSYLVANIA

POWER GENERATION BUILDING
 ARCHITECTURAL
 CAUSTIC TANK & ACID TANK ENCLOSURE
 PLANS & ELEVATIONS



DOOR SCHEDULE															
OPENING NUMBER	QUANTITY	NOMINAL DOOR OPENING DIMENSION	DOOR			FRAME			CLOSURES SEE SPEC. FOR TYPE	PANIC HARDWARE "CECO" NO. P87	THRESHOLD "CECO" NO. 4241 (ALUM) OR EQUAL	LOCK	COMMENTS		
			HAND & SWING	TYPE	THICKNESS	MAT'L	TYPE	DEPTH						GAUGE	MAT'L
D1	1	2'-6" x 7'-0"	LHR	I	1 3/4"	GALV. STEEL	A	4 3/4"	16 GA.	GALV. STEEL	NA	YES	YES	C	
D2	1	3'-0" x 7'-0"	LHR	I	1 3/4"	GALV. STEEL	B	4 3/4"	16 GA.	GALV. STEEL	NA	YES	YES	C	2HR FIRE RATING

C = CYLINDRICAL

NOTES FOR DOOR SCHEDULE

- ALL DOORS, HARDWARE & ASSOCIATED ITEMS REFER TO EQUIPMENT AS MANUFACTURED BY "CECO" U.N.
- ALL HARDWARE FINISH SHALL BE US26 DULL CHROME.
- PROVIDE 3 KEYS FOR DOORS.

NOTES:

- FOR GENERAL NOTES, SEE DWG. 916-GN-015.
- WORK THIS DRAWING WITH DWG. 916-AE-008 & 916-AE-010.
- MODEL NO. Z-100 ETC AS MANUFACTURED BY ZURN CORP. OR OWNER APPROVED EQUAL. DRAINS SHALL BE CAST IRON WITH THREADED OR CAULKED BOTTOM OUTLET, AS REQUIRED, FLANGED BODY, REMOVABLE DOME STRAINER, NONPUNCTURE TYPE FLASHING RING WITH INTEGRAL GRAVEL STOP, ROOF SUMP RECEIVER, DECK CLAMP AND BODY EXTENSION.

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

POWER GENERATION BUILDING
ARCHITECTURAL
CAUSTIC TANK & ACID TANK ENCLOSURE
SECTIONS & DETAILS

DRAWN BY JP
CHECKED BY
EXAMINED BY
DATE PLOTTED 27-JAN-1994

DETAIL '1'
N. T. S.

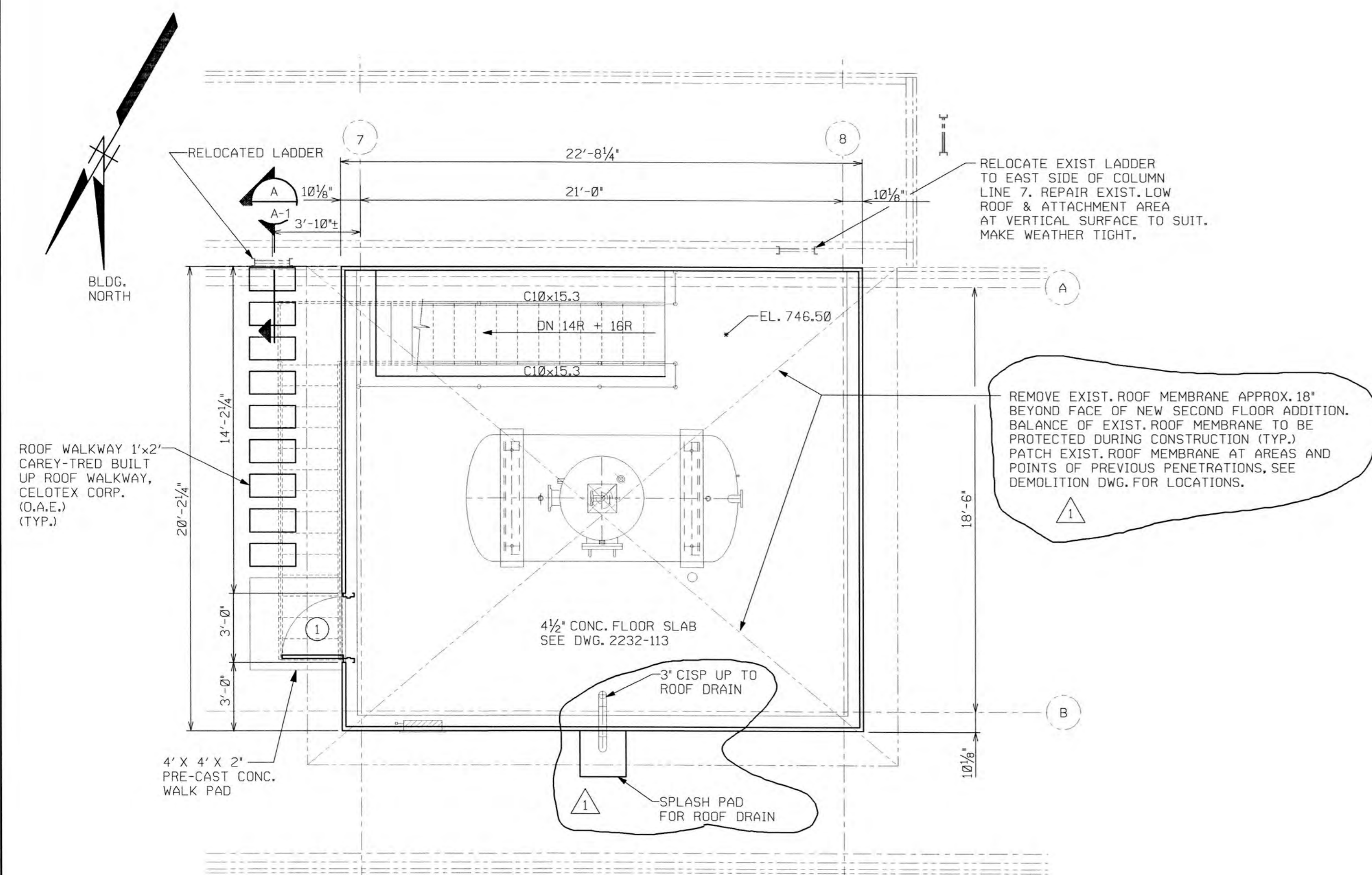
DETAIL '2'
N. T. S.

DETAIL '3'
N. T. S.

TYPE '1' DOOR
HOLLOW METAL
DOOR ELEV.

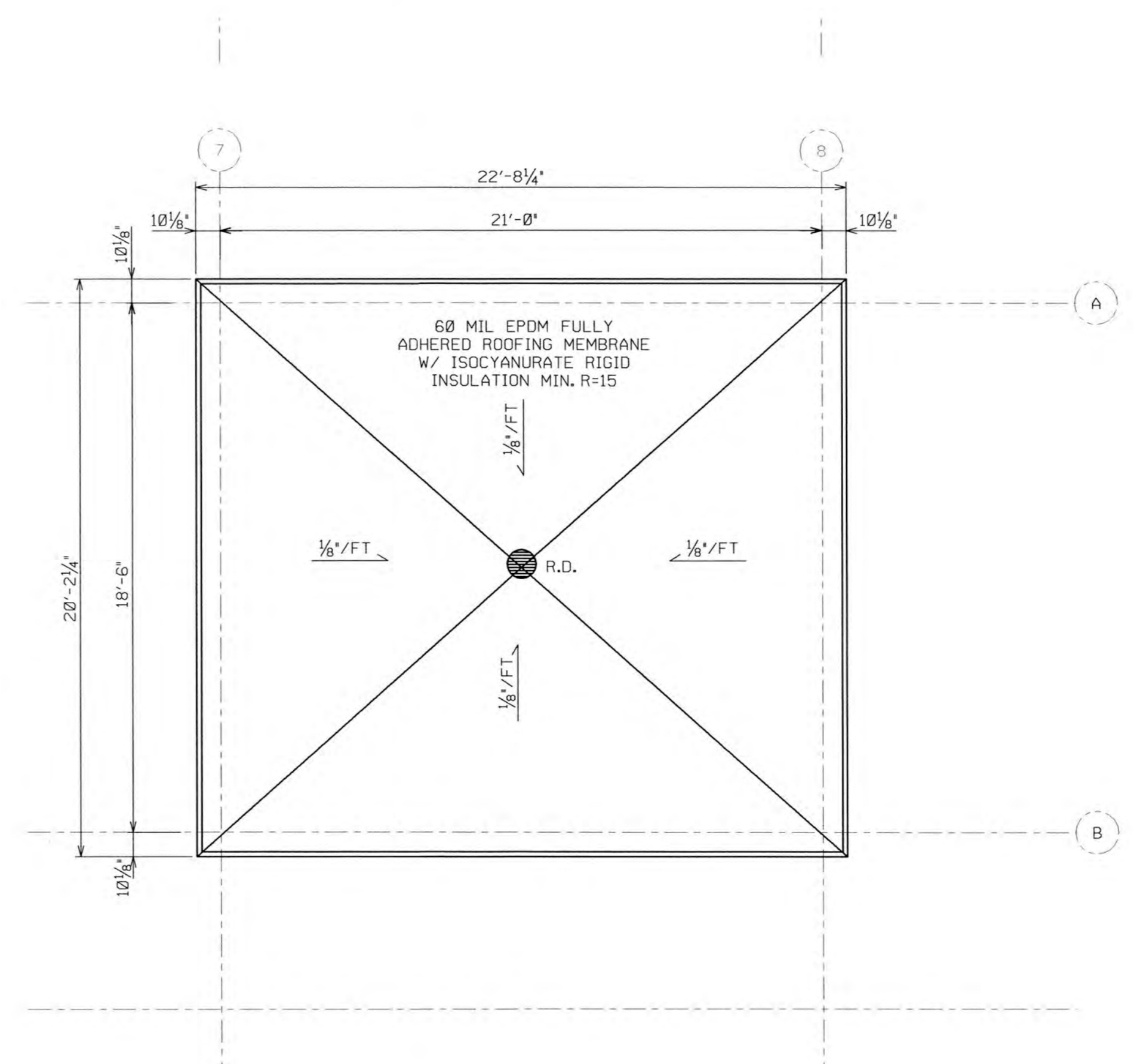


REV.	DESCRIPTION	DATE	APP.	APPROVED
0	RELEASED WITH CONTRACT 916W-1	1-28-94		William C. Troch
1	RELEASED WITH CONTRACT 916W-1 ADDENDUM #1	1-31-94		Joseph W. Longgip
2				
3				

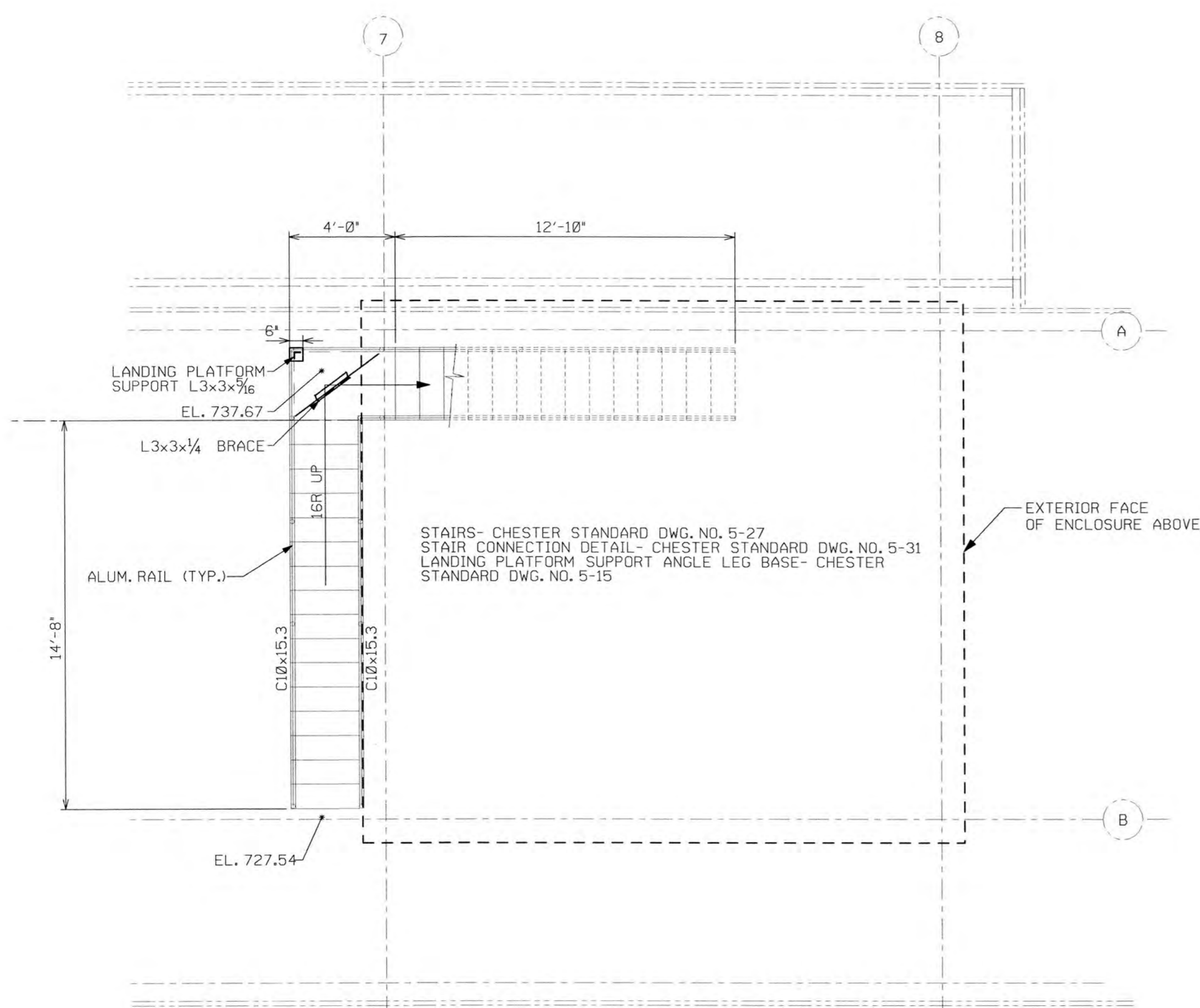


SECOND FLOOR ADDITON PLAN
SCALE: 1/4"=1'-0"

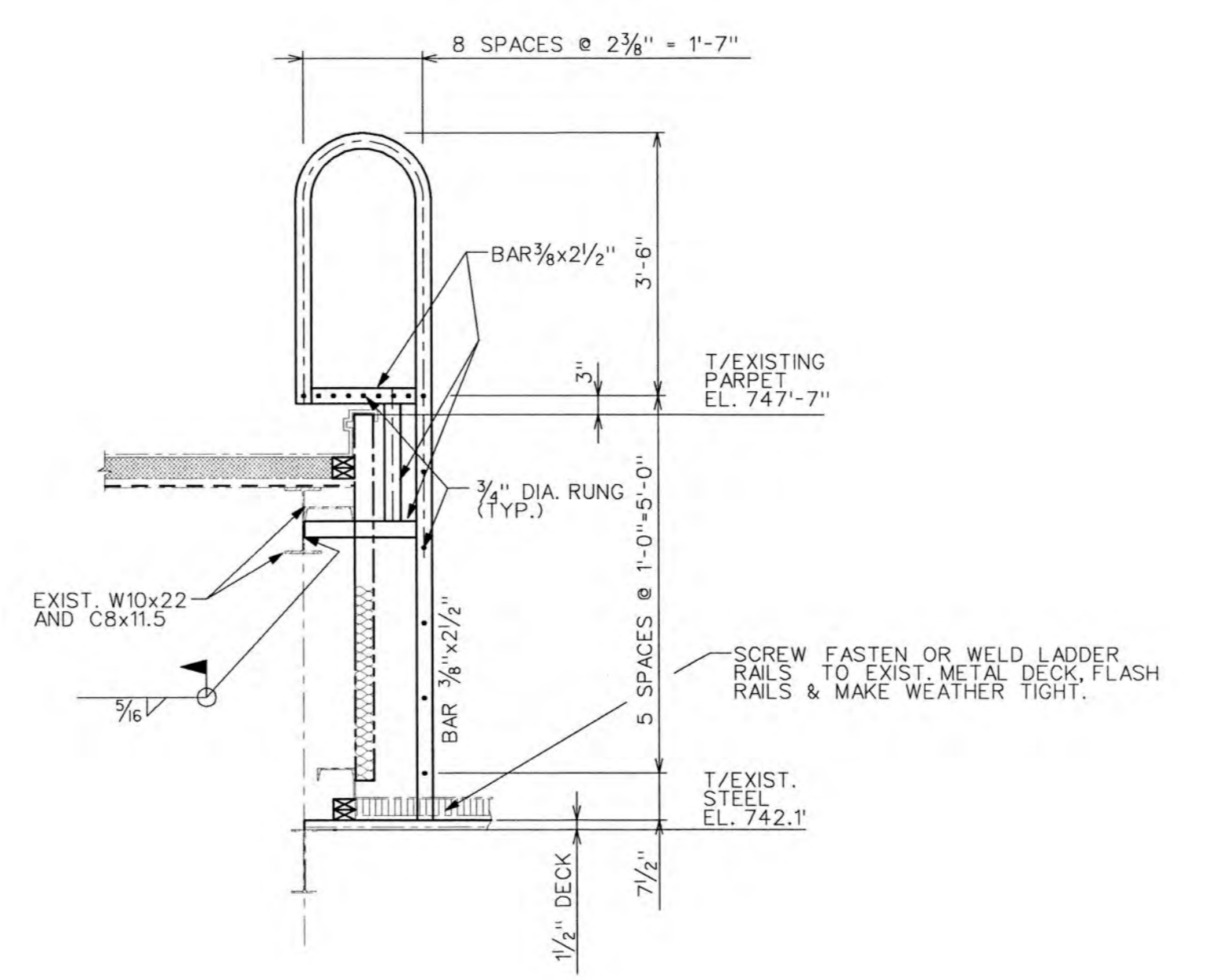
DOOR ① 2'-8" x 7'-0" x 1 3/4" FRP FACED, 'SPECIALITE' (O.A.E.)
HARDWARE: CONTINUOUS HINGE
EXIT DEVICE
WEATHER STRIPPING
THRESHOLD
CLOSER



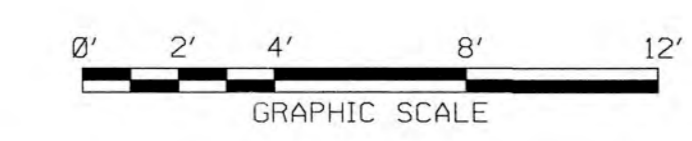
ROOF PLAN
SCALE: 1/4"=1'-0"



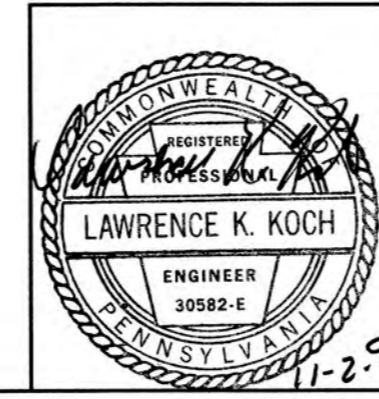
FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"



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



DRAWN BY: WJK
CHECKED BY: JS
EXAMINED BY:
ALCOSAN EXAMINED BY:



DWG. NO. 2232111\2232-115 .ARC
DATE 02 NOV 1999/10:45:53

REV.	DESCRIPTION	DATE	APP.	APPROVED
1	ISSUED FOR BIDS	10-12-99		
2	ADDENDUM NO. 2	11-2-99		
				EXECUTIVE DIRECTOR _____ DATE _____
				DIRECTOR OF ENGR. & CONST. _____ DATE _____
				PROJECT MANAGER _____ DATE _____

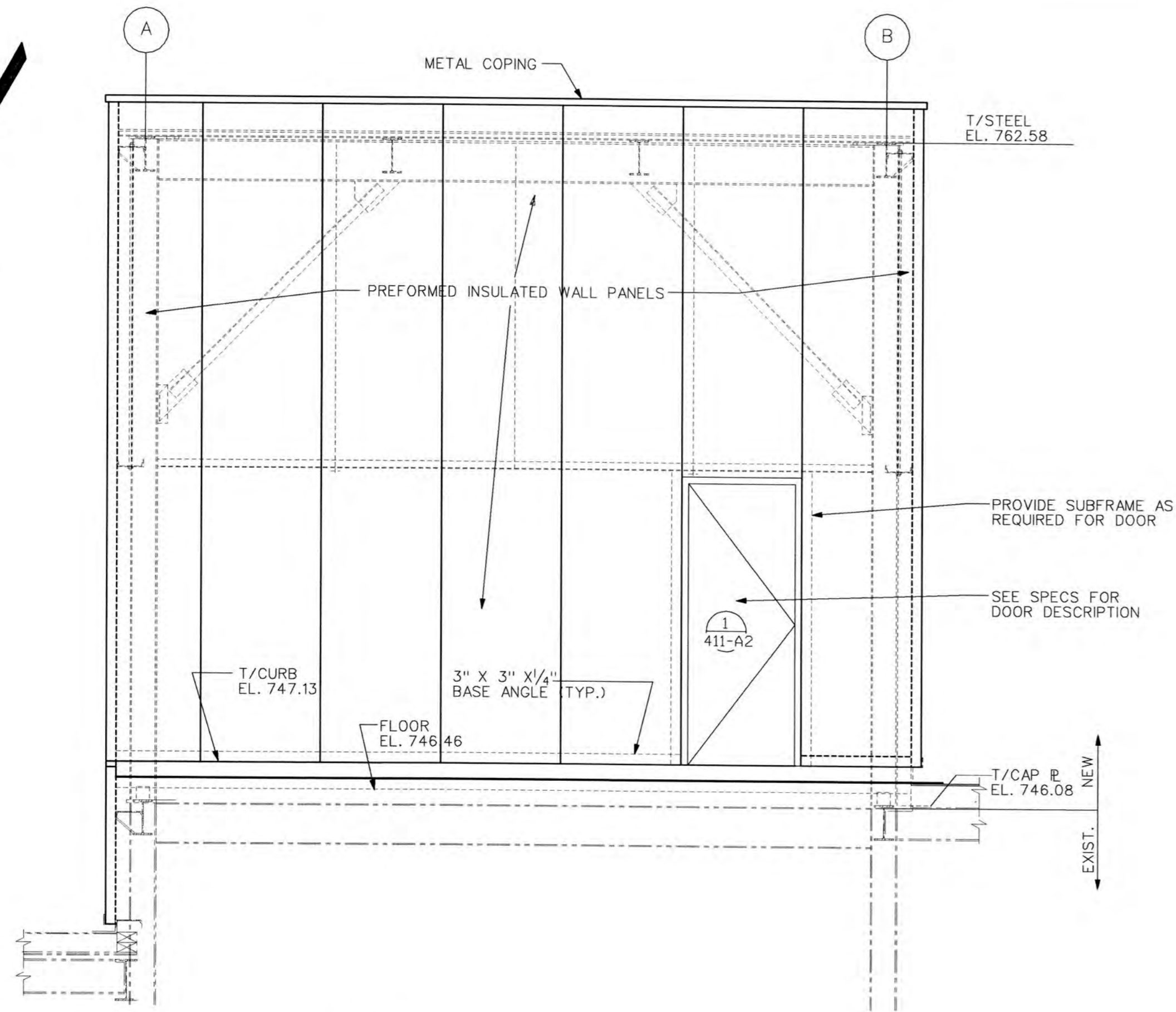
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
PITTSBURGH, PENNSYLVANIA

DEAERATOR AND BOILER FEED
PUMP MODIFICATIONS

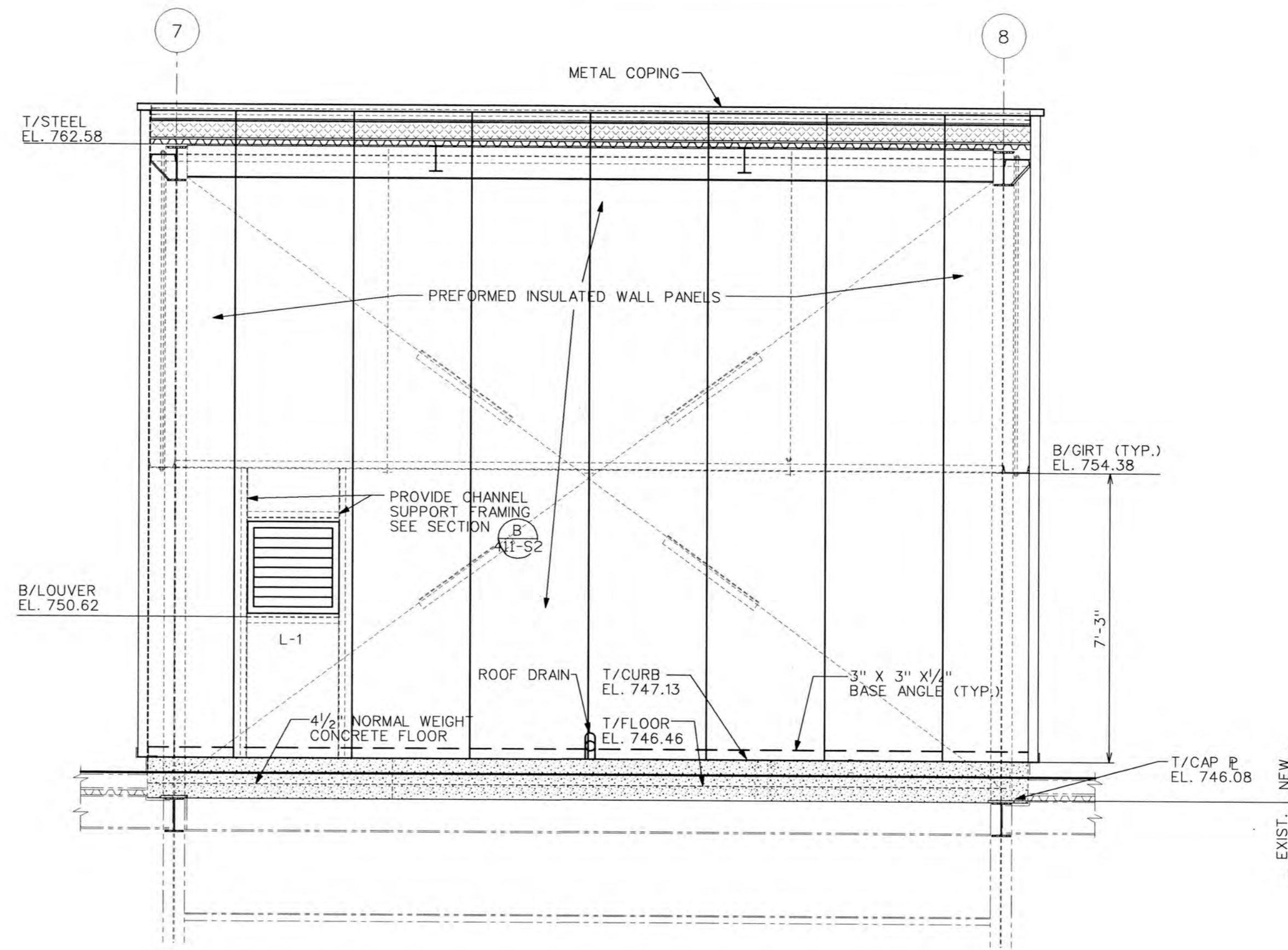
POWER GENERATION PLAN
ARCHITECTURAL PLANS

SCALE: 1/4"=1'-0" CONTRACT 1220 SHEET

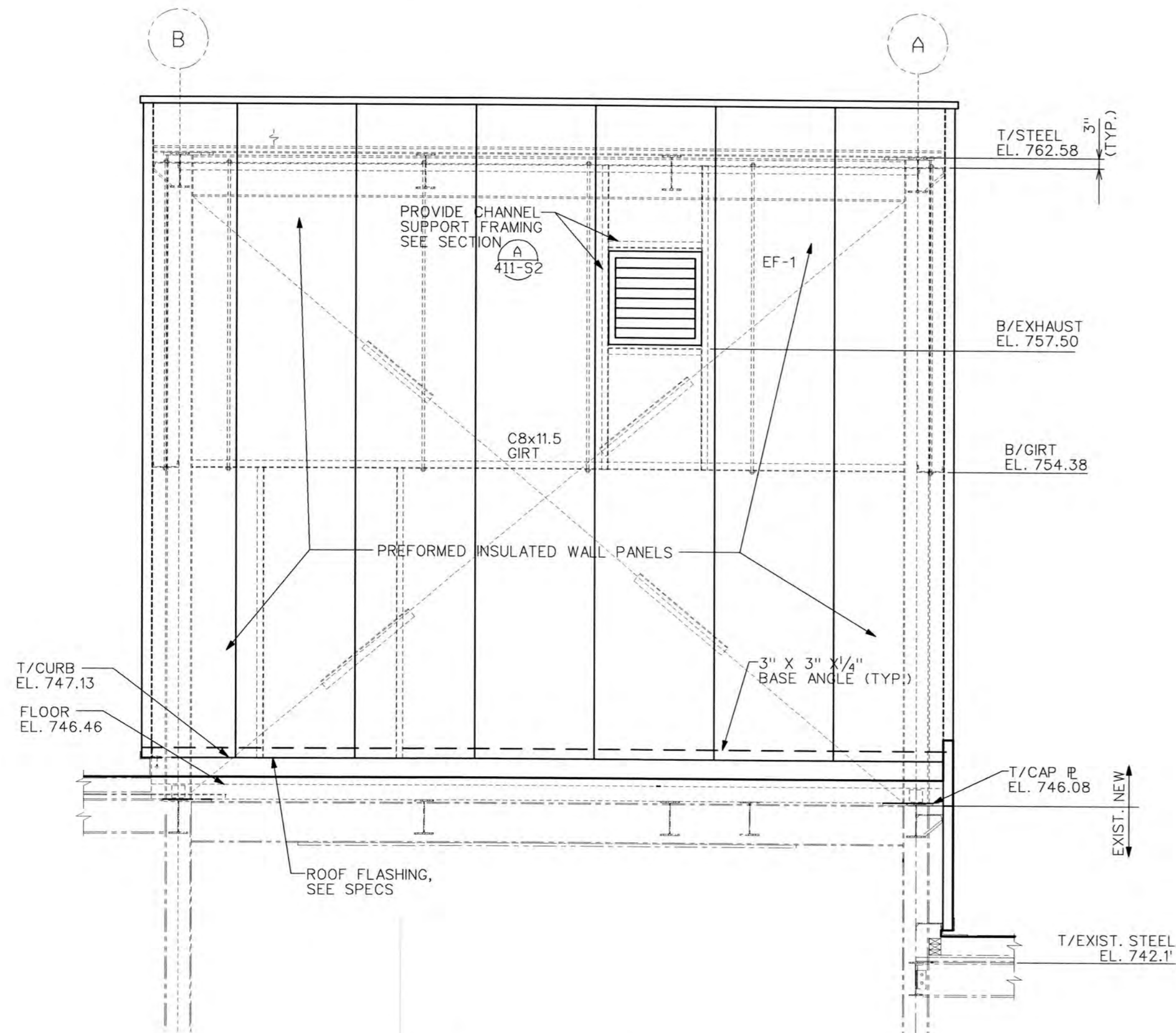
DWG. NO. 411-A1



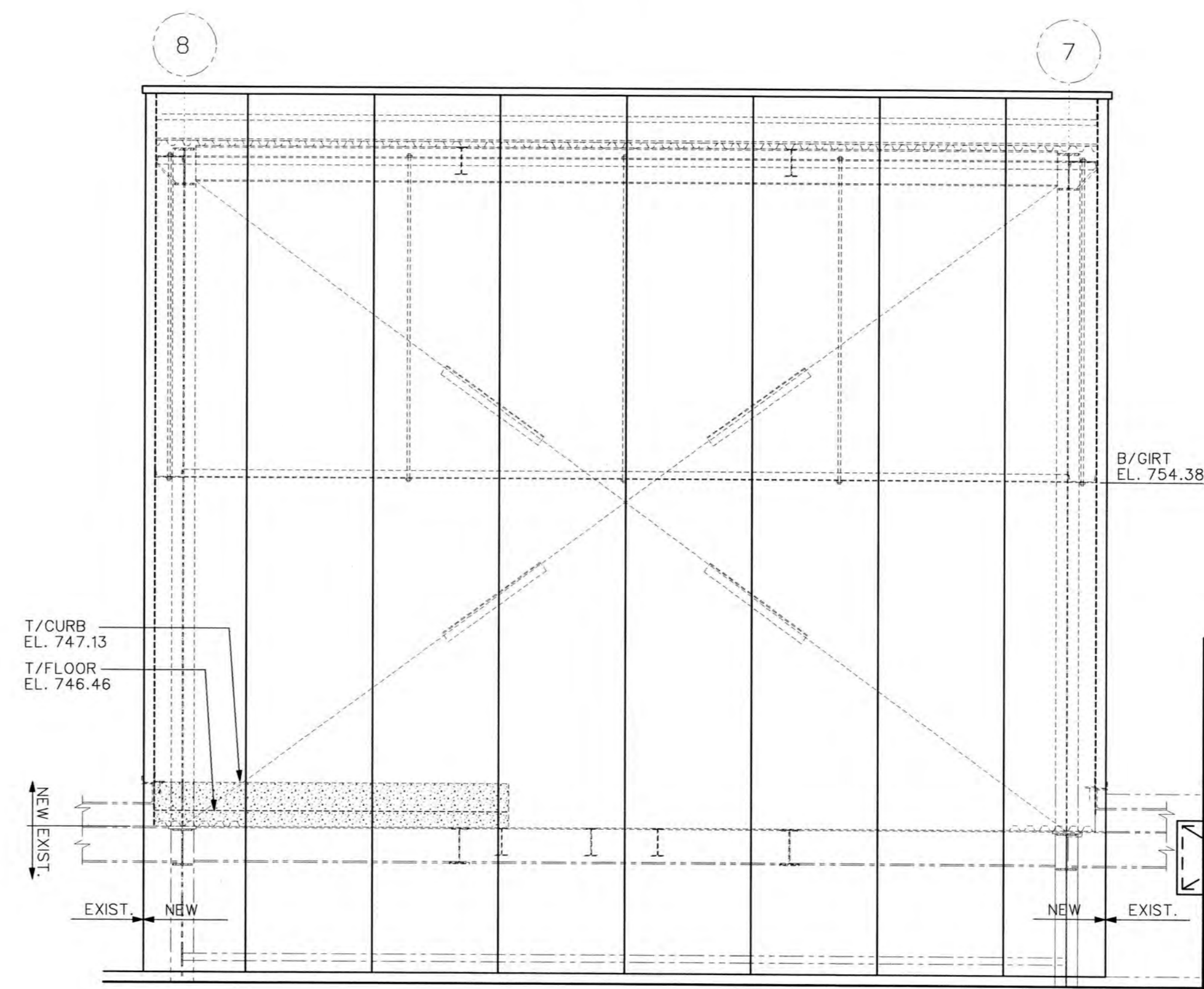
EAST
SCALE: 3/8"=1'-0"
A
411-A2



NORTH
SCALE: 3/8"=1'-0"
B
411-A2



WEST
SCALE: 3/8"=1'-0"
C
411-A2



SOUTH
SCALE: 3/8"=1'-0"
D
411-A2

DRAWN BY: WJK
CHECKED BY: JS
EXAMINED BY:
ALCOSAN EXAMINED BY:



DWG. NO. 2232111\2232-116 .ARC
DATE 13 OCT 1999/10:20:15

REV.	DESCRIPTION	DATE	APP.	APPROVED
1	ISSUED FOR BIDS	10-12-99		
				EXECUTIVE DIRECTOR _____ DATE _____
				DIRECTOR OF ENGR. & CONST. _____ DATE _____
				PROJECT MANAGER _____ DATE _____



ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
PITTSBURGH, PENNSYLVANIA

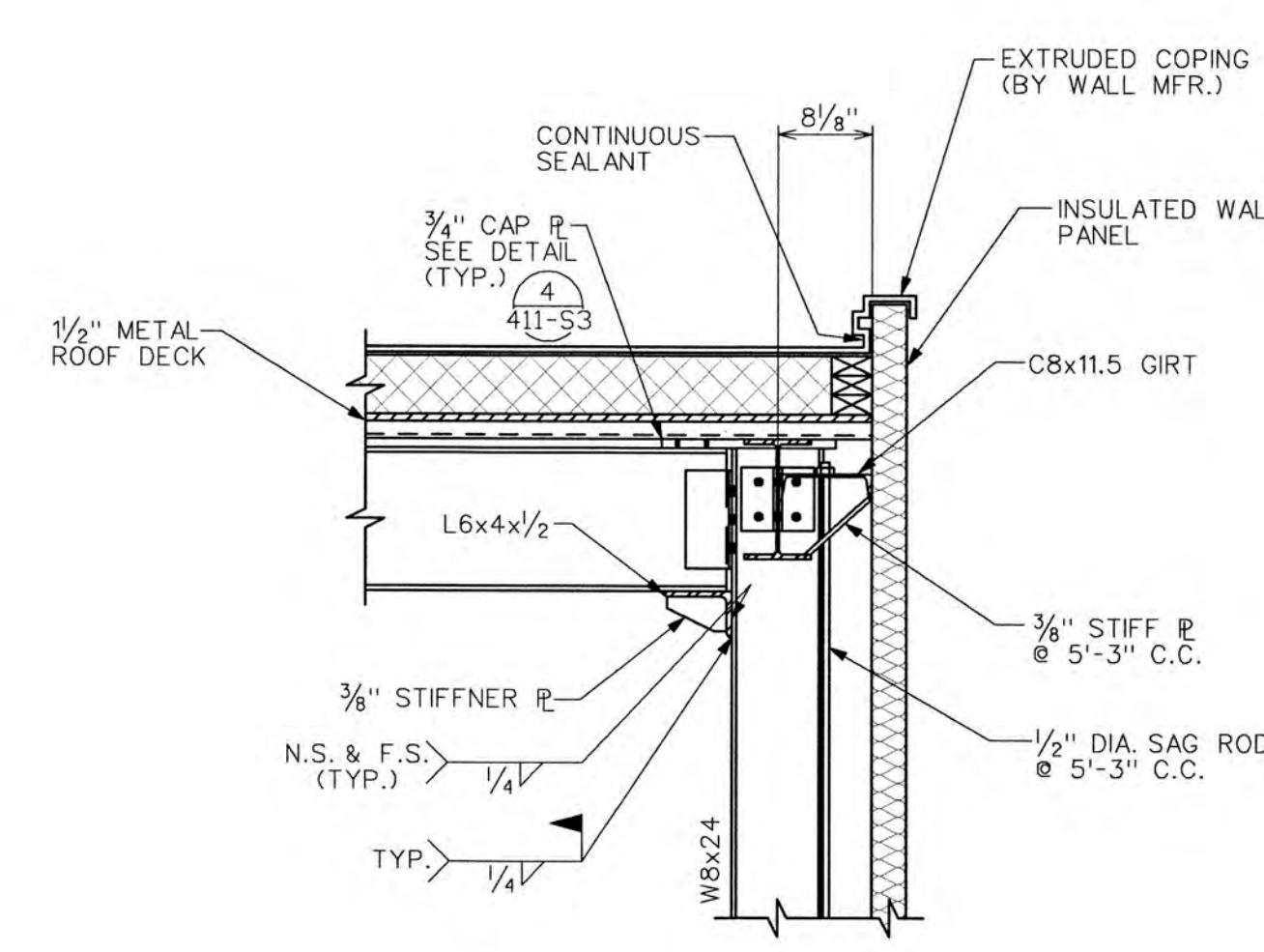
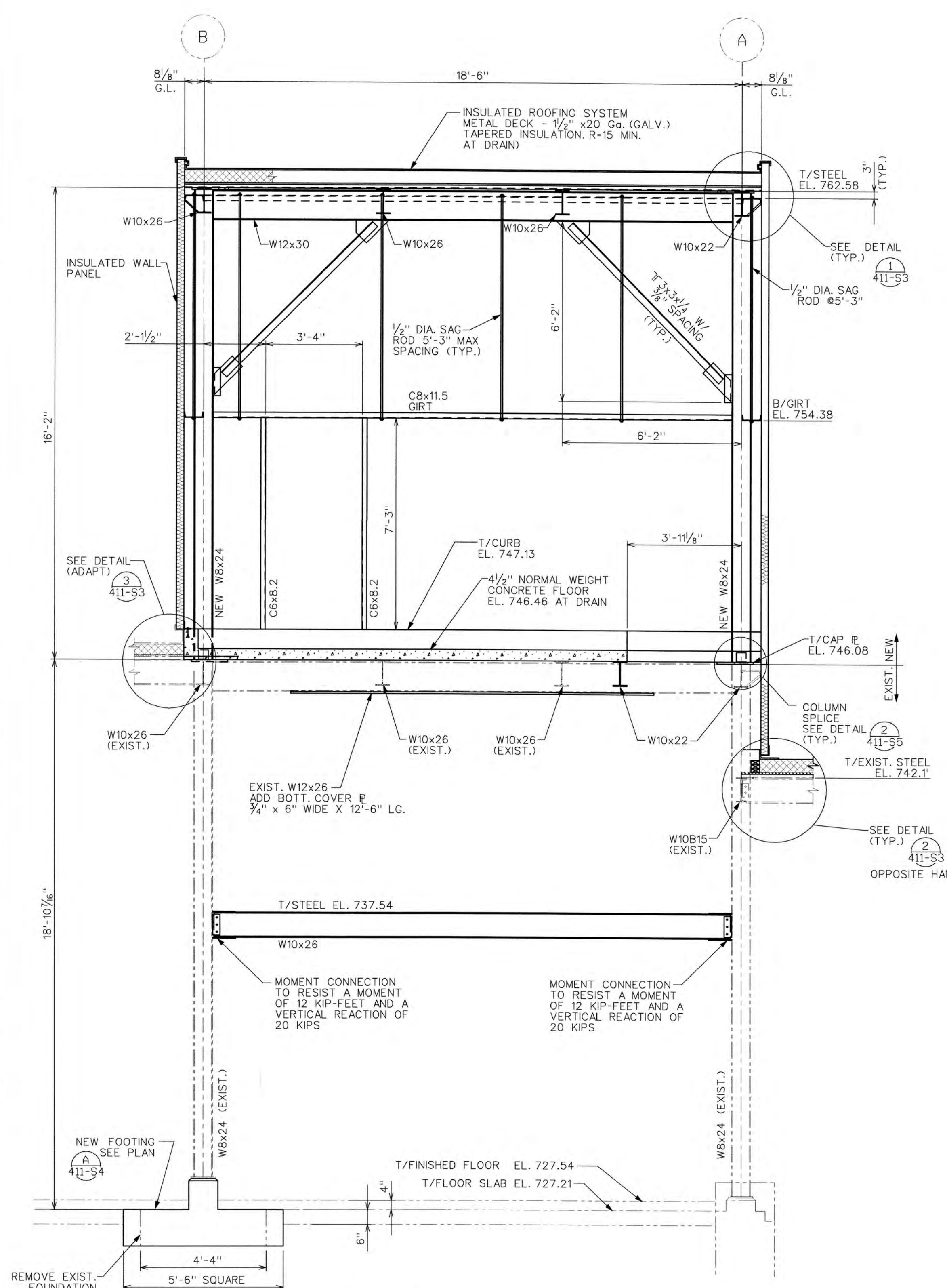
DEAERATOR AND BOILER FEED
PUMP MODIFICATIONS

POWER GENERATION BUILDING
ARCHITECTURAL ELEVATIONS

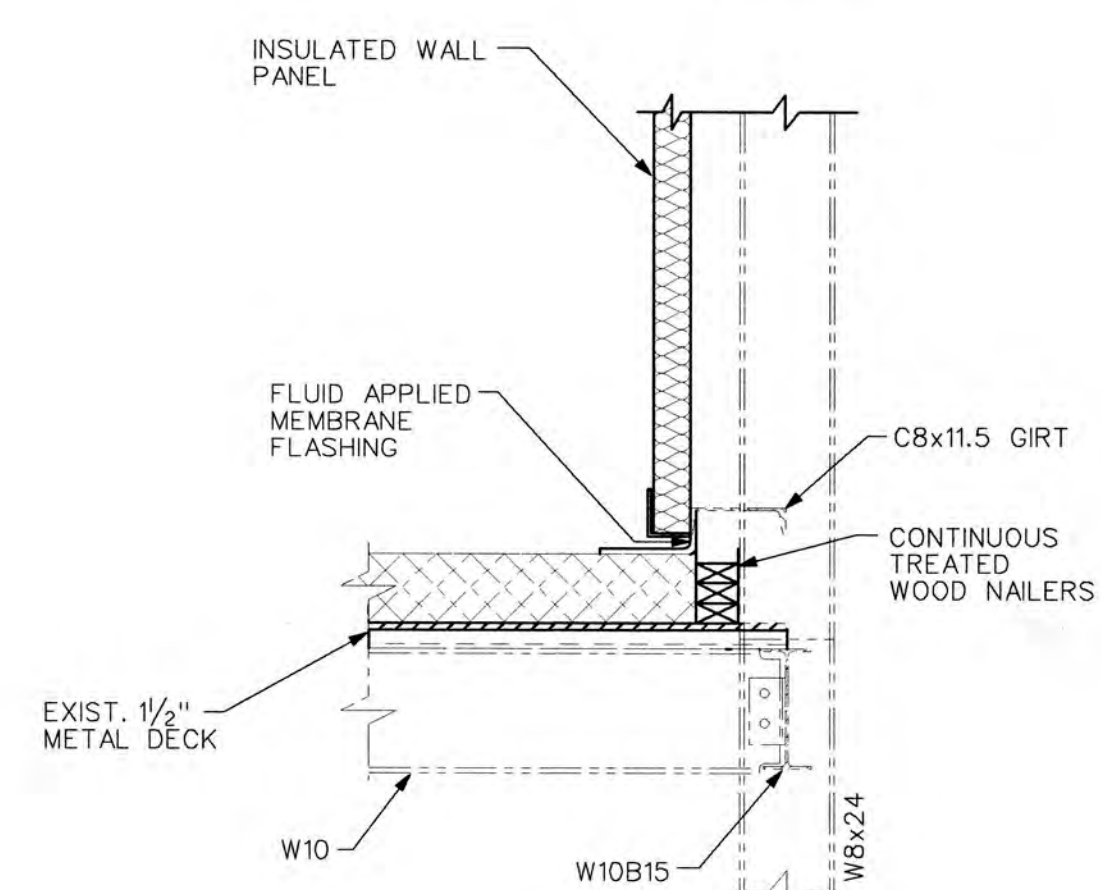
3/8"=1'-0"

SCALE: 1/4"=1'-0" CONTRACT 1220 SHEET 3 OF 18

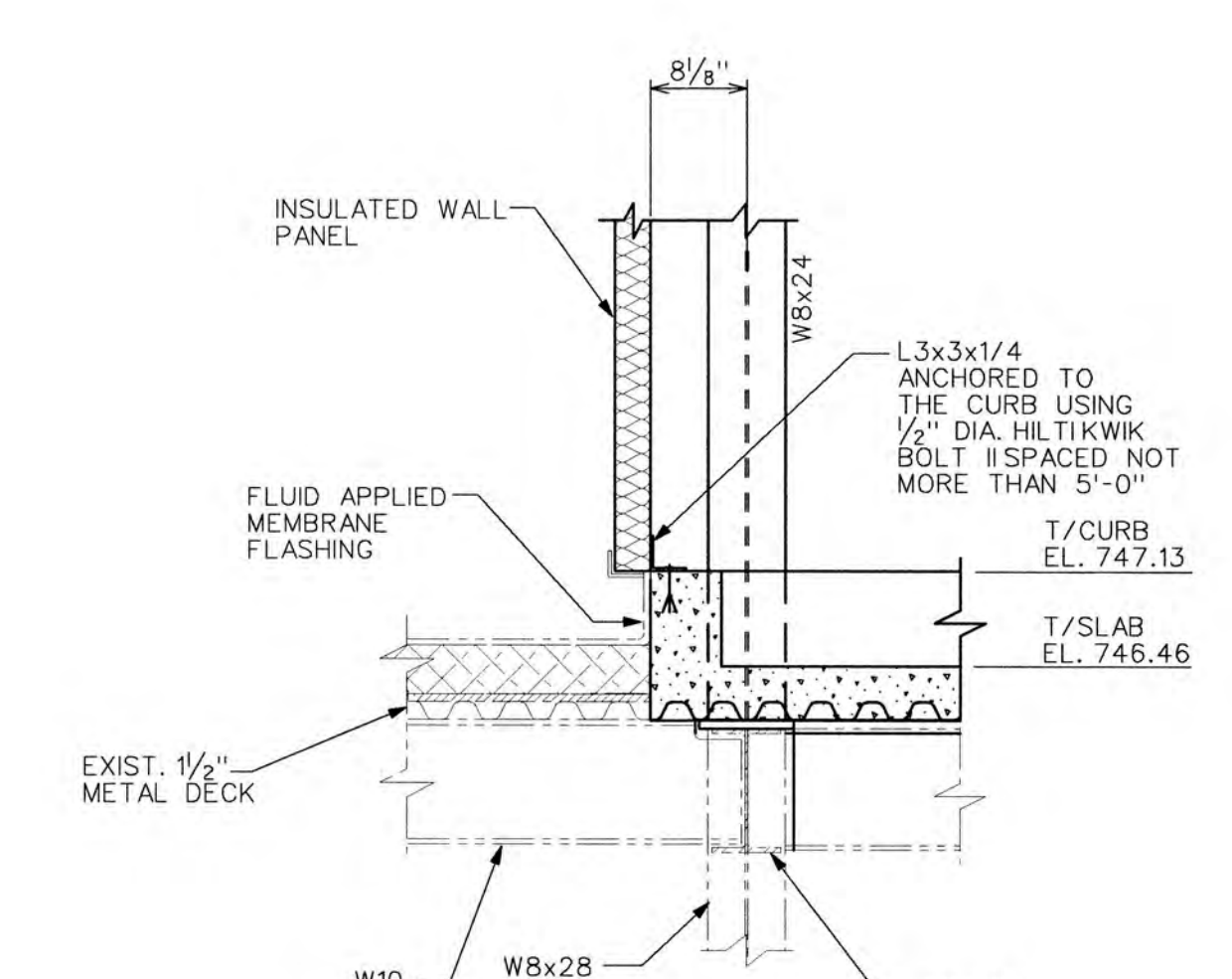
DWG. NO. 411-A2



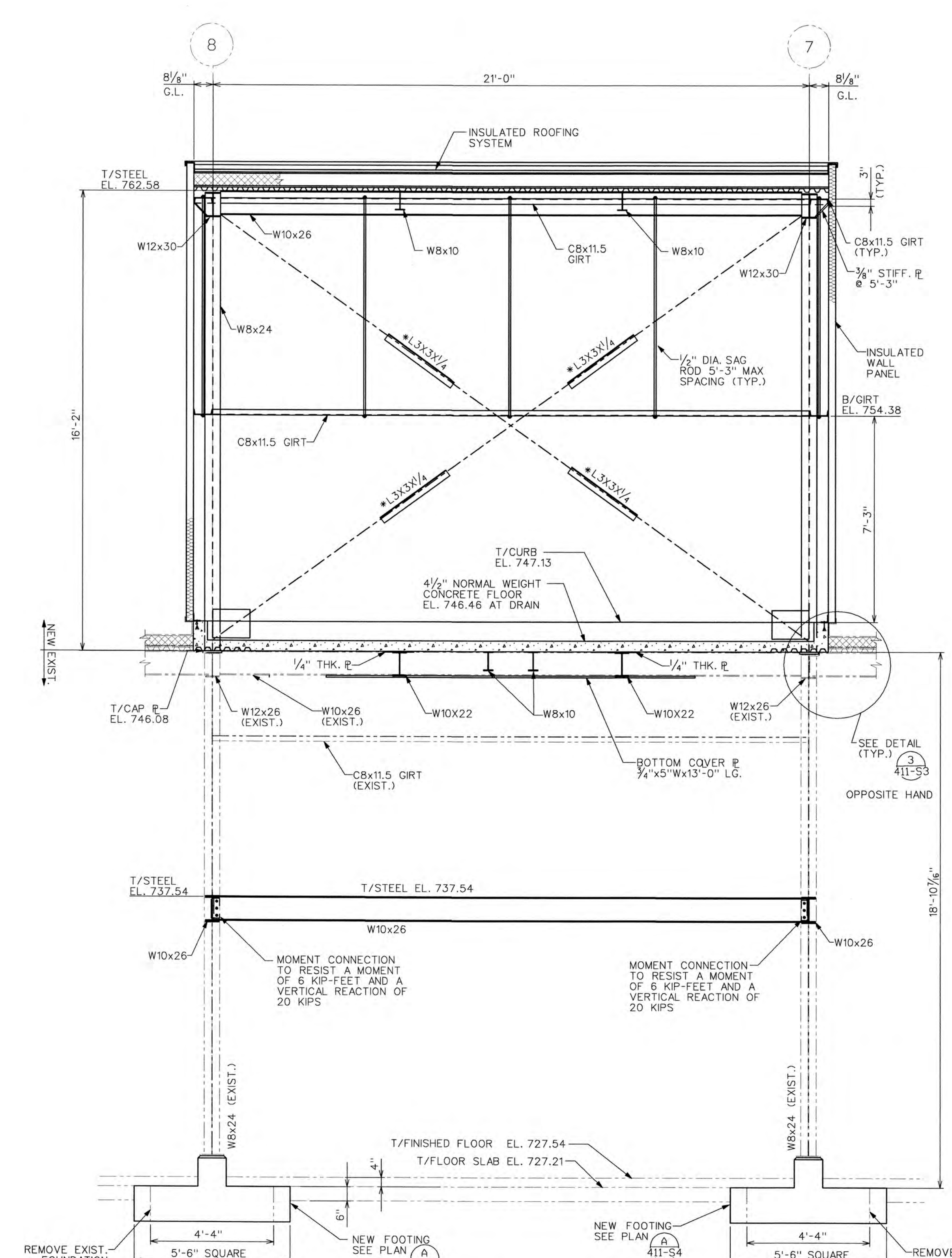
DETAIL 1
SCALE: 3/4"=1'-0"
411-S2 411-S3



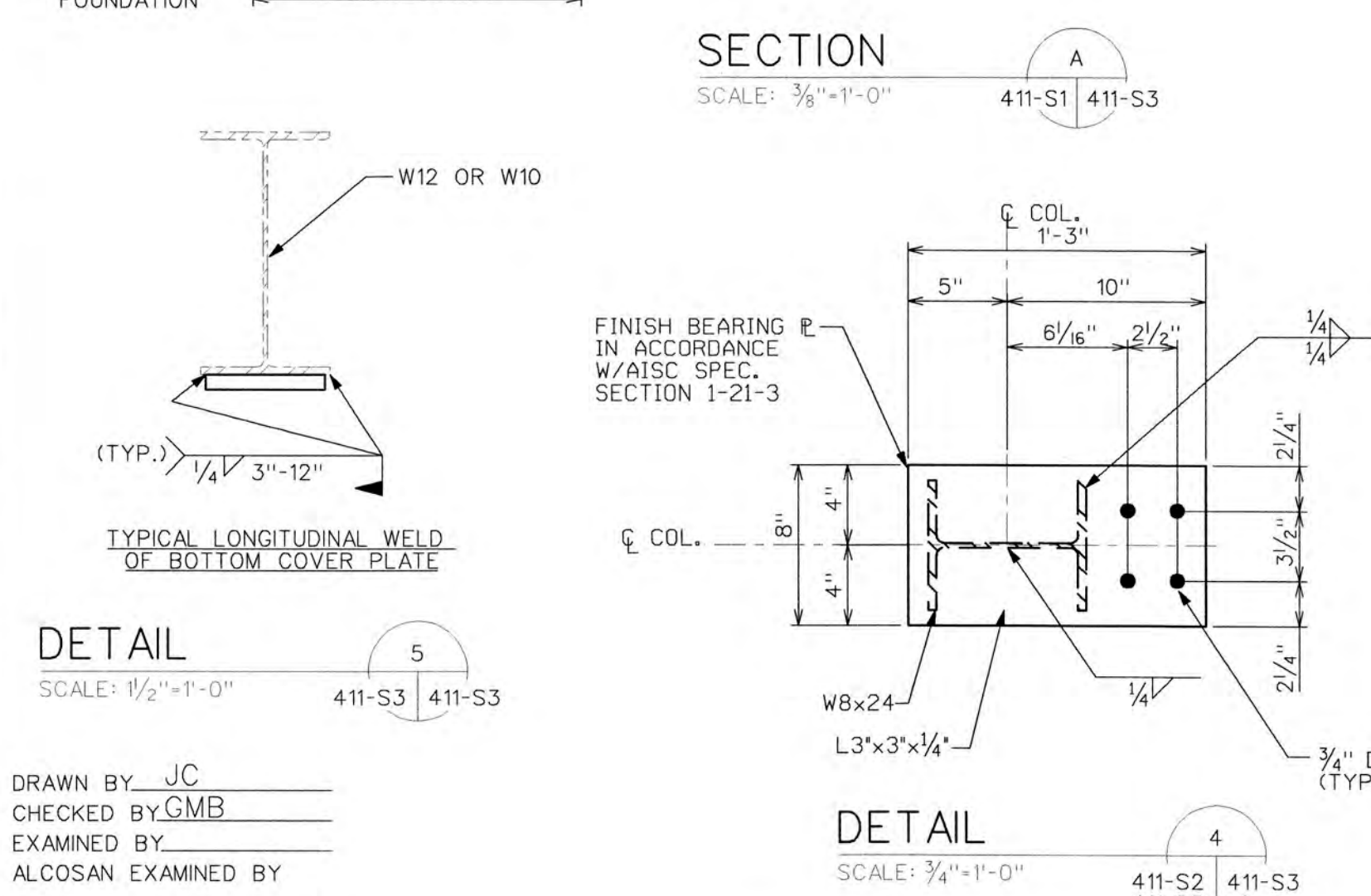
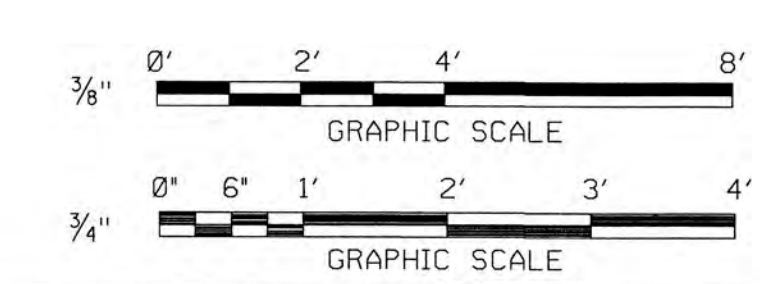
DETAIL 2
SCALE: 3/4"=1'-0"
411-S2 411-S3



DETAIL 3
SCALE: 3/4"=1'-0"
411-S2 411-S3



* THE OUTSTANDING LEG OF THE ANGLE X-BRACES SHALL BE TOWARDS THE INSIDE OF THE BUILDING.



GENERAL NOTES:
IN ORDER TO WELD THE BOTTOM COVER PLATES ON THE EXISTING BEAMS AND INSTALL NEW BEAMS IN THE FIRST FLOOR, INTERFERING PIPING SHALL BE TEMPORARILY OR PERMANENTLY REROUTED AND GAGES, CONTROL PANELS AND OTHER OBSTRUCTIONS SHALL BE TEMPORARILY OR PERMANENTLY RELOCATED AS APPROVED BY THE ENGINEER IN CHARGE.

DRAWN BY: JC
CHECKED BY: GMB
EXAMINED BY:
ALCOSAN EXAMINED BY:

EDWARD JOHN WEINHEIMER
ENGINEER
15973-E

CHESTER ENGINEERS
DWG. NO. 223211\2232-112 .STR
DATE 20 OCT 1999/16:05:27

REV.	DESCRIPTION	DATE	APP.	APPROVED
1	ISSUED FOR BIDS	10-12-99		
2	ADDENDUM NO. 1	10-27-99		
			EXECUTIVE DIRECTOR	DATE
			DIRECTOR OF ENGR. & CONST.	DATE
			PROJECT MANAGER	DATE

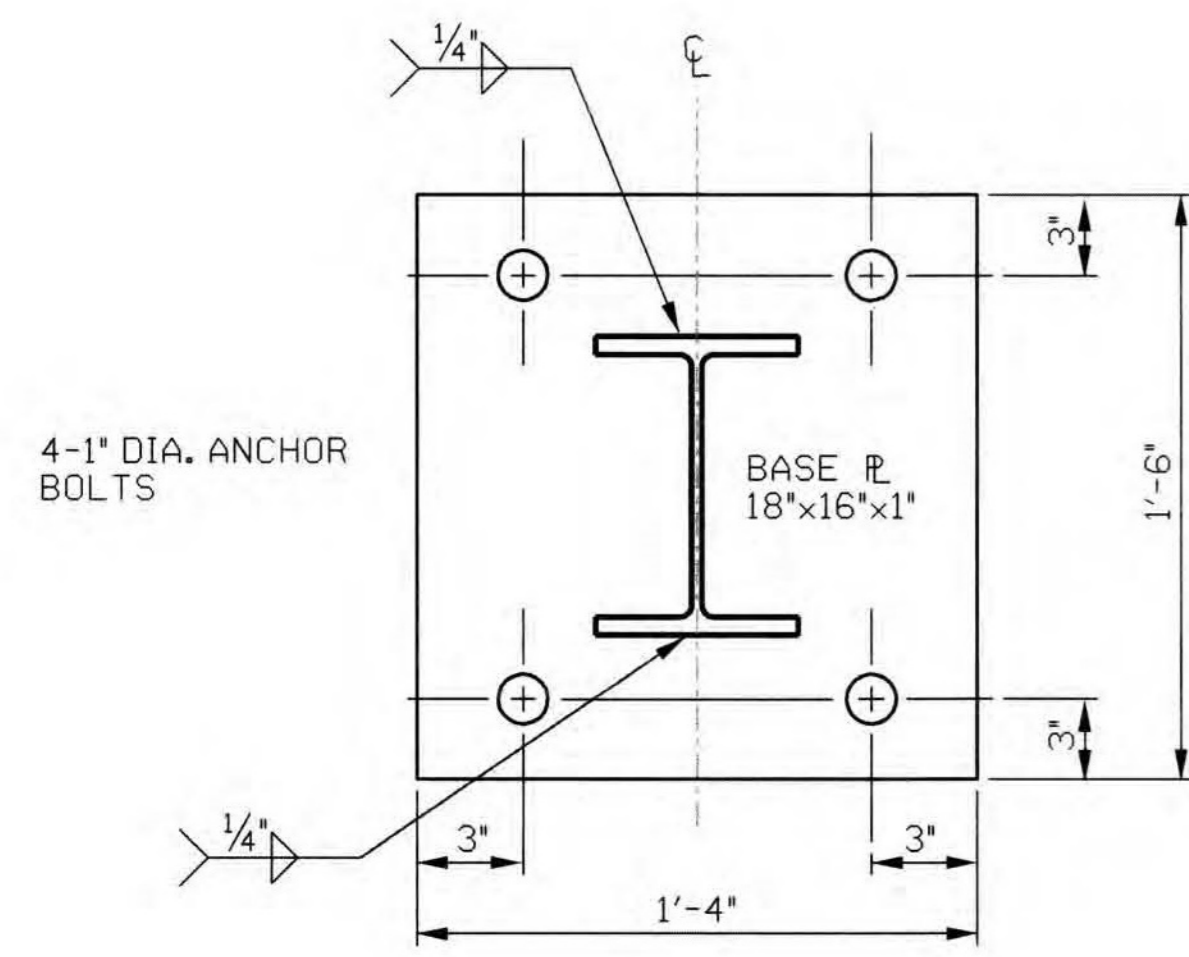
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
PITTSBURGH, PENNSYLVANIA

DEAERATOR AND BOILER FEED
PUMP MODIFICATIONS

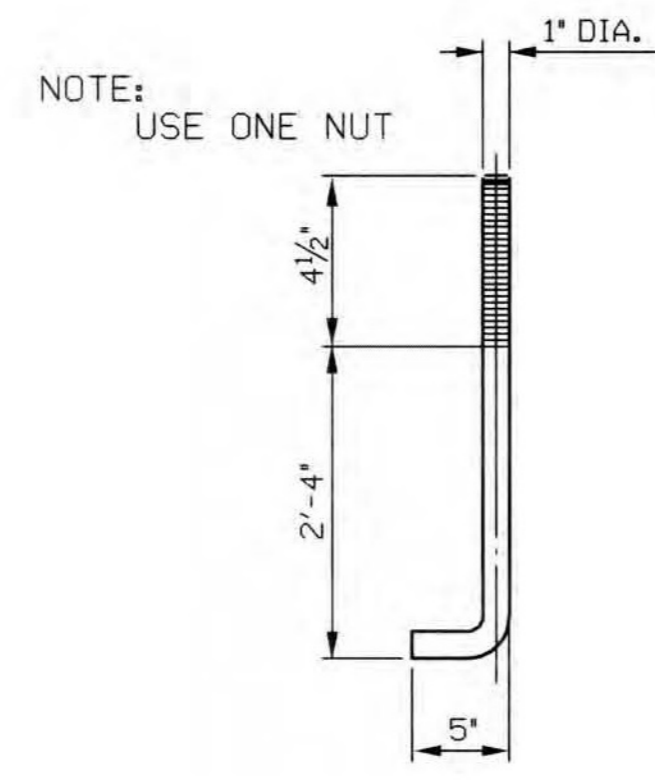
POWER GENERATION BUILDING
SECOND FLOOR ADDITION
BUILDING SECTIONS

SCALE: AS SHOWN CONTRACT 1220 SHEET 6 OF 18

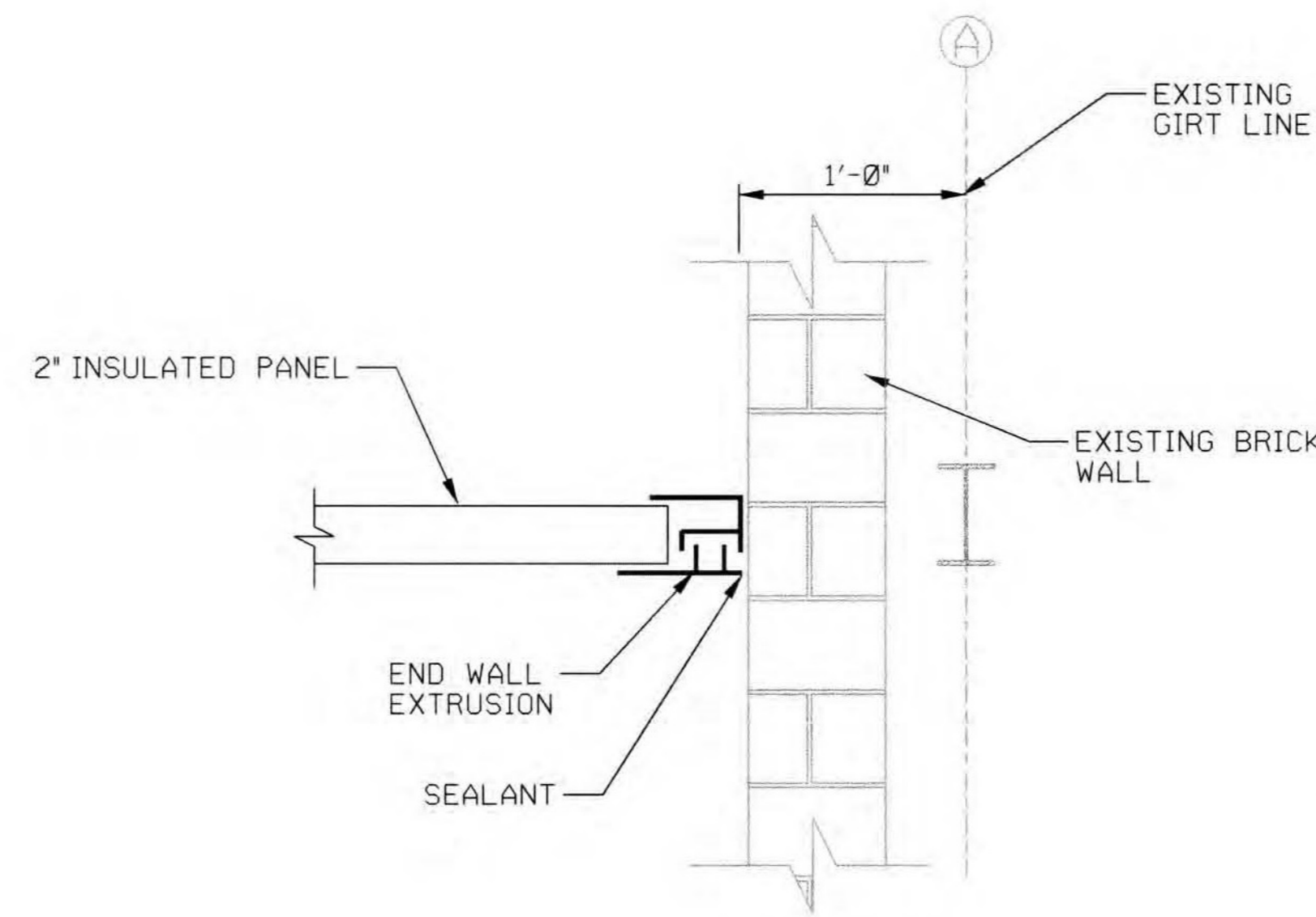
DWG. NO. 411-S3



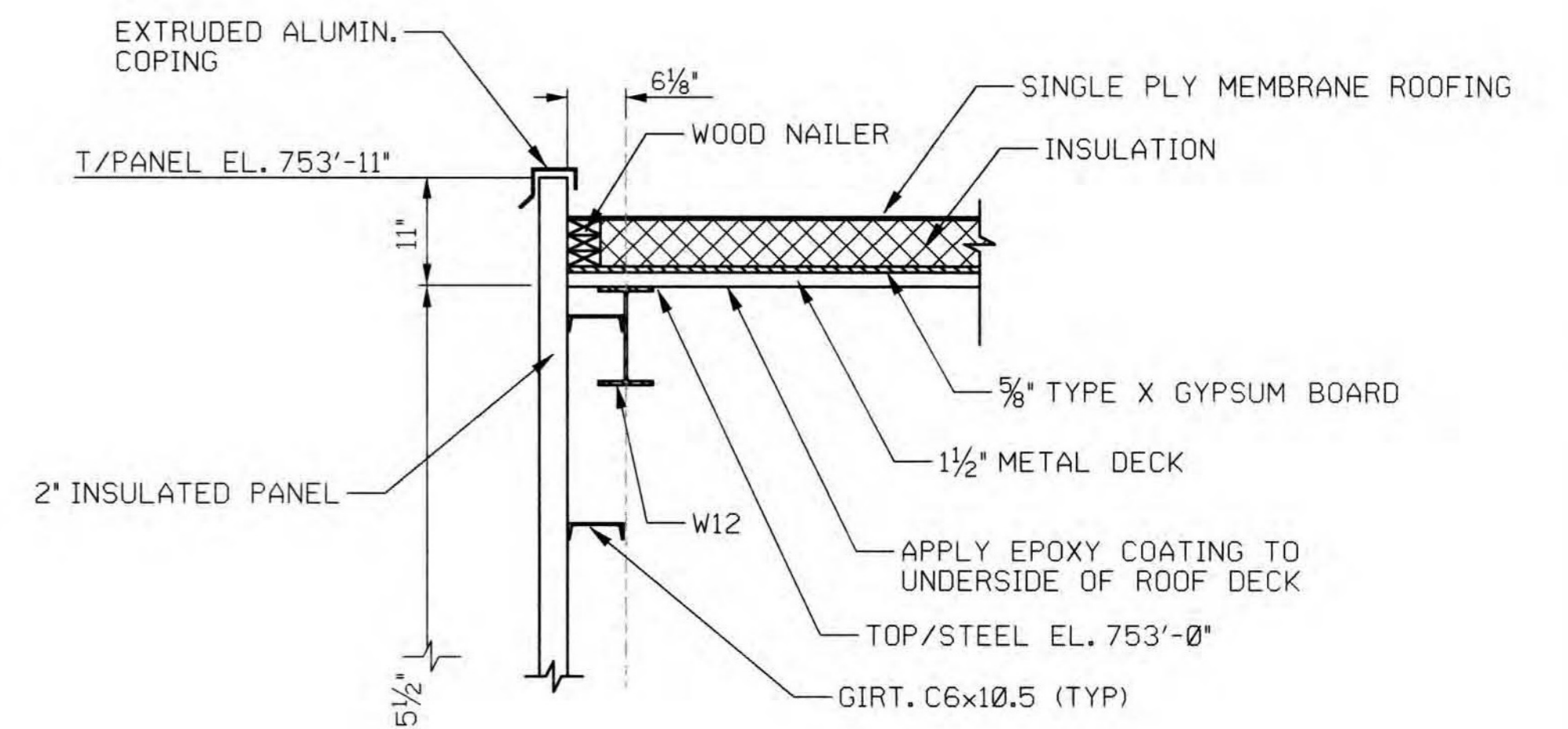
BASE PLATE (TYP.)
NTS



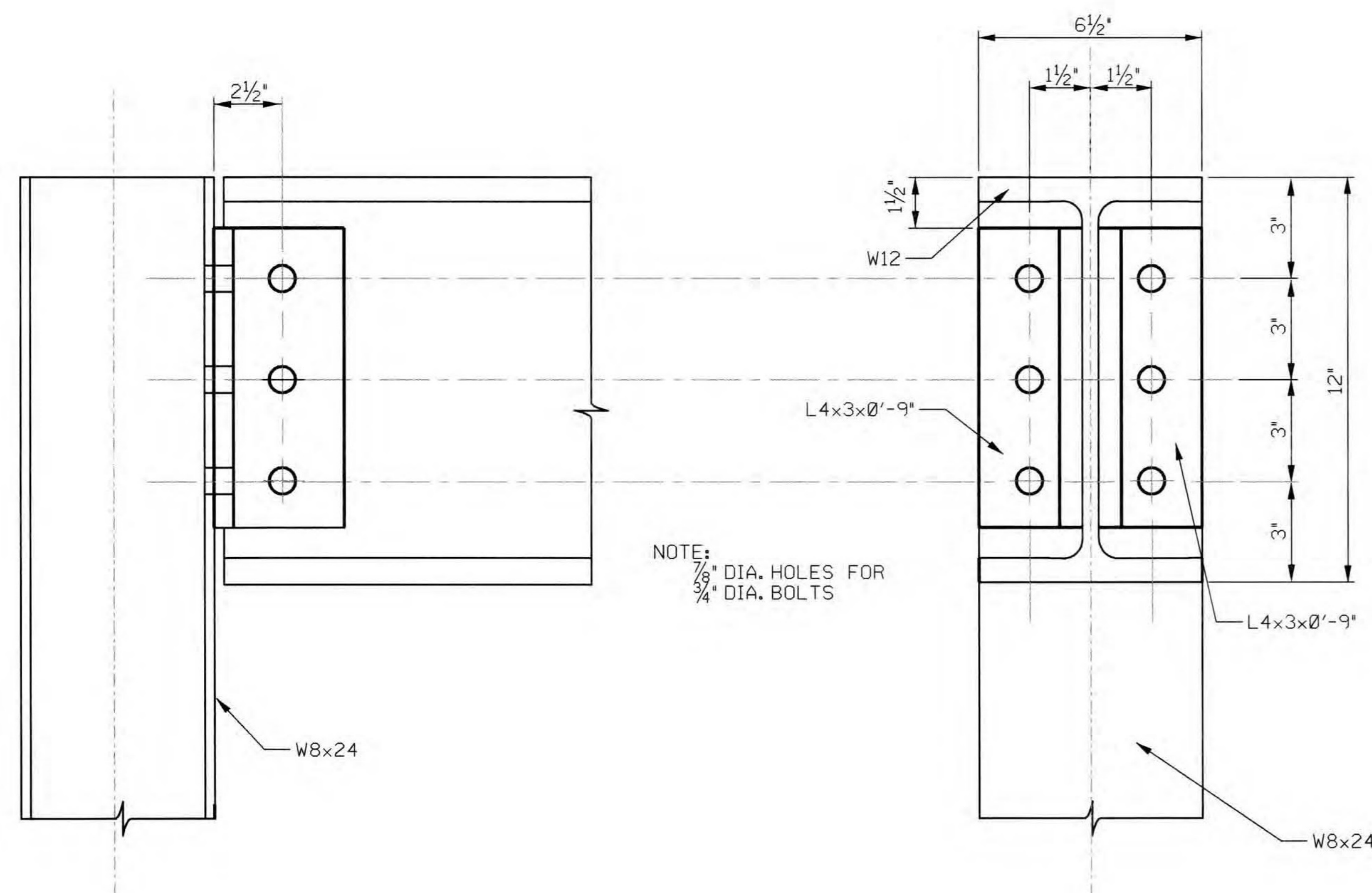
ANCHOR BOLT (TYP.)
NTS



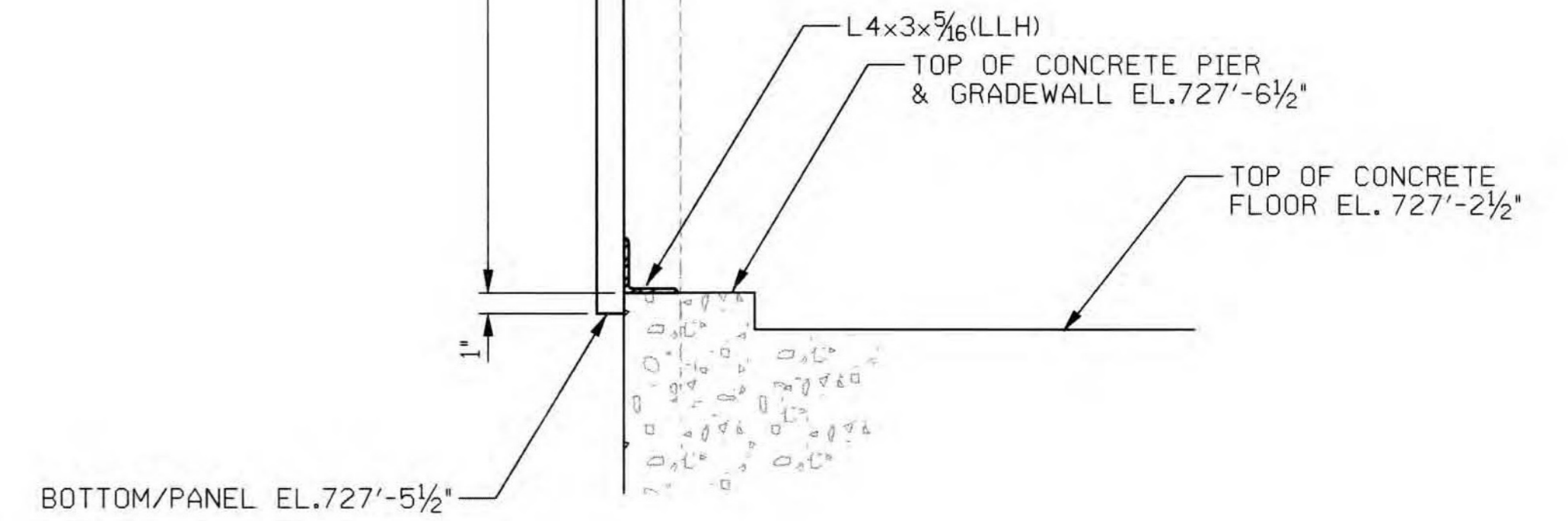
PANEL CONNECTION (TYP.)
NTS



EXTERIOR WALL (TYP.)
NTS



W12 BEAM TO W8 COL. CONNECTION
NTS



K. BABIN
DRAWN BY:
H. WEAVER
CHECKED BY:
H. WEAVER
EXAMINED BY:

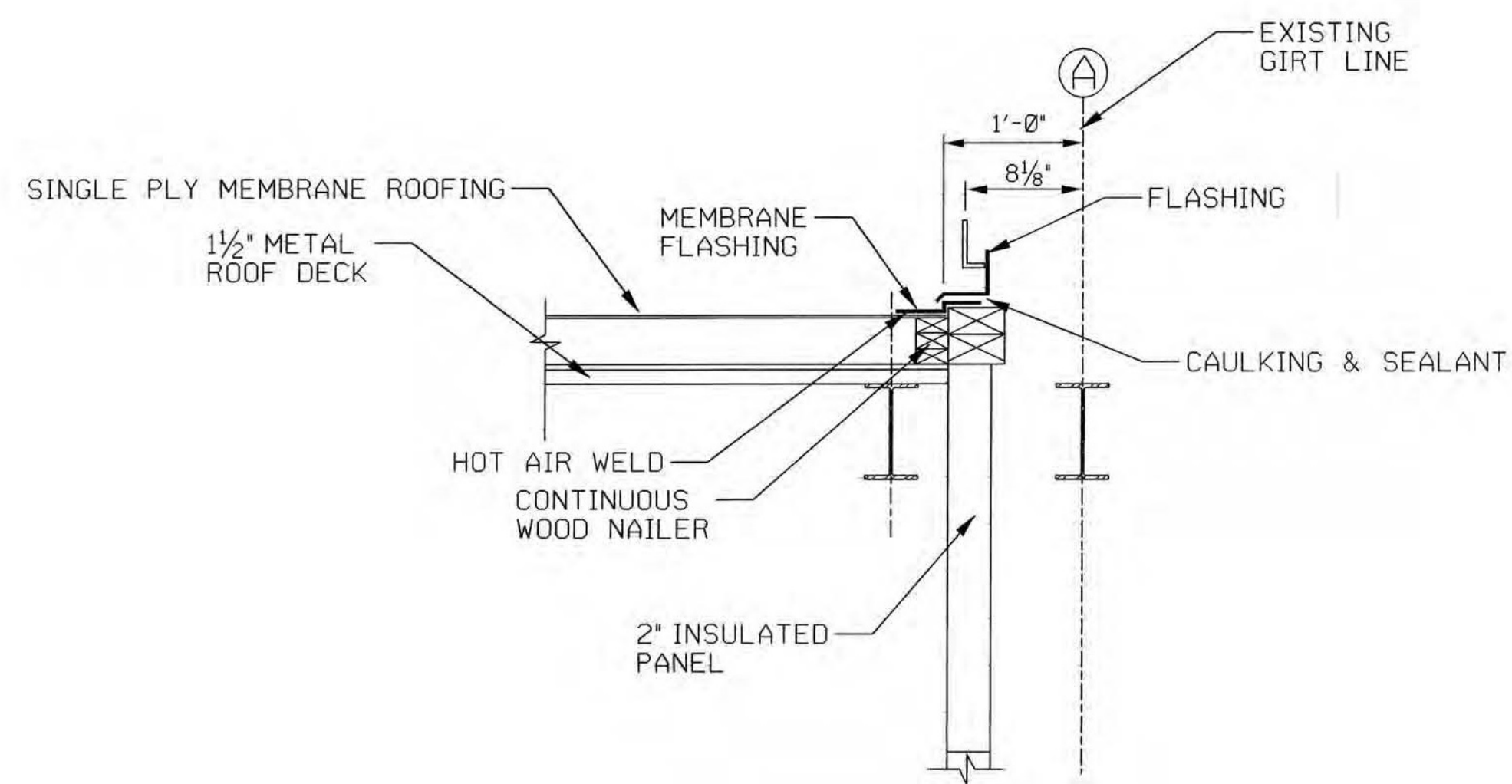
REV.	DESCRIPTION	DATE	APP.
5			
4			
3			
2			
1			

ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
PITTSBURGH, PENNSYLVANIA

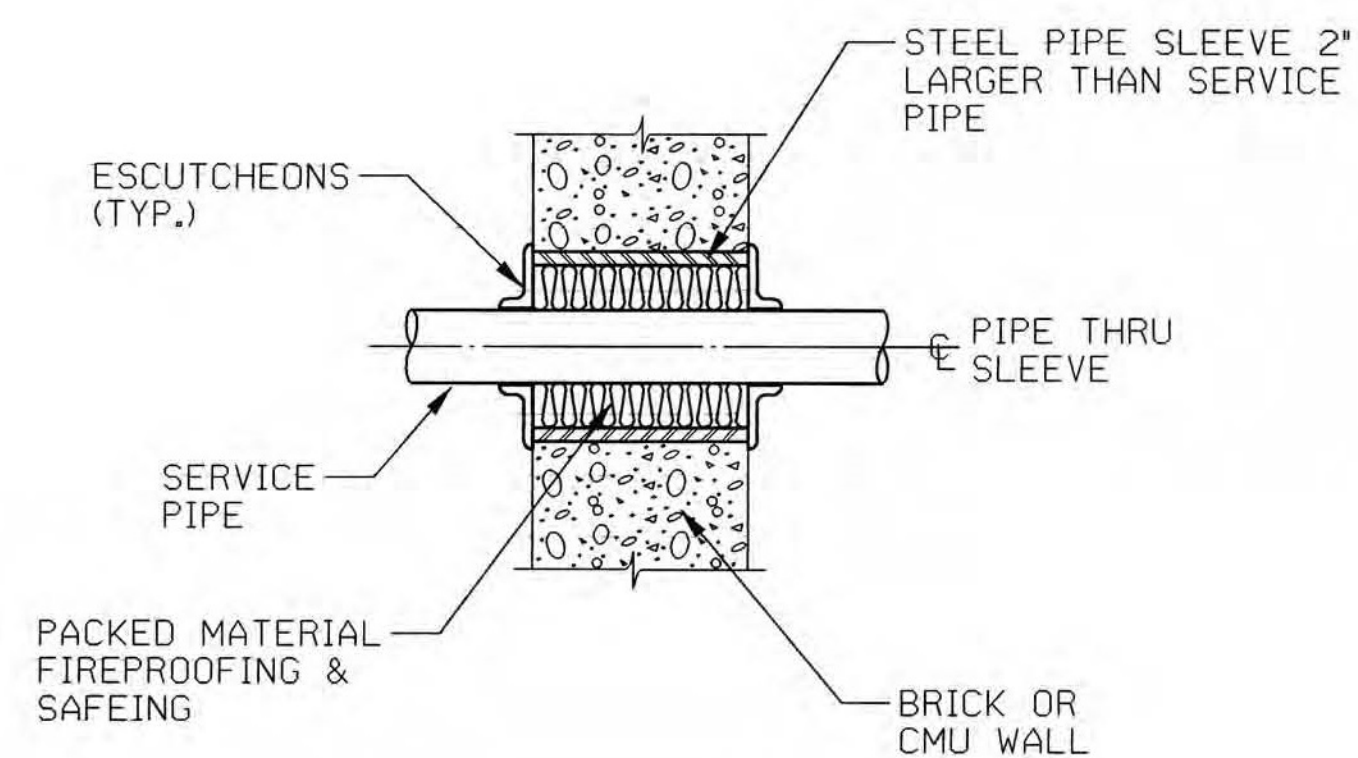
NEW STANDBY BOILER
411-S-06
BOILER ROOM
STRUCTURAL STEEL
DETAILS & SECTIONS

SCALE: AS SHOWN CONTRACT NO. 1254

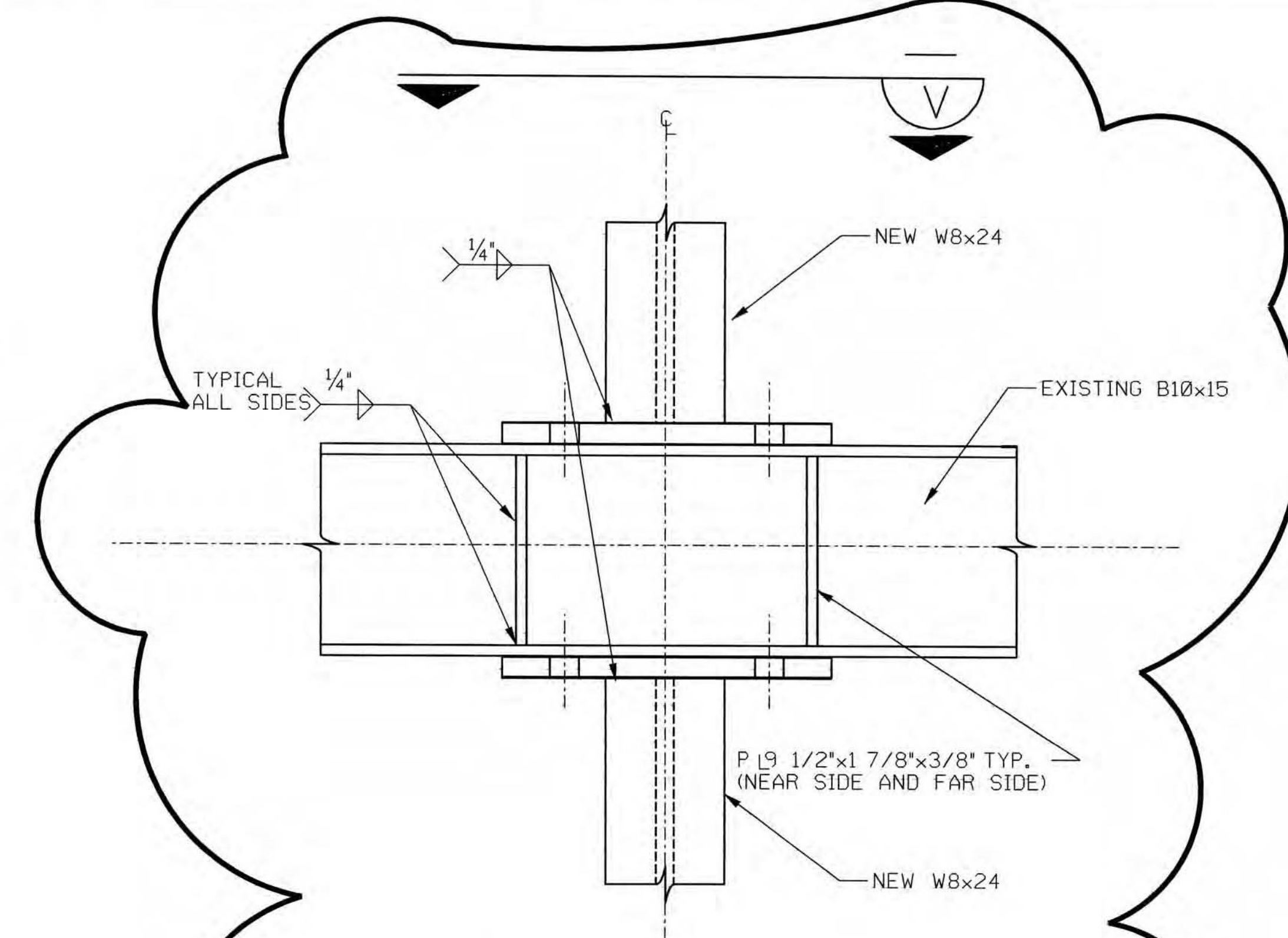
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DATE PLOTTED: 09-13-02



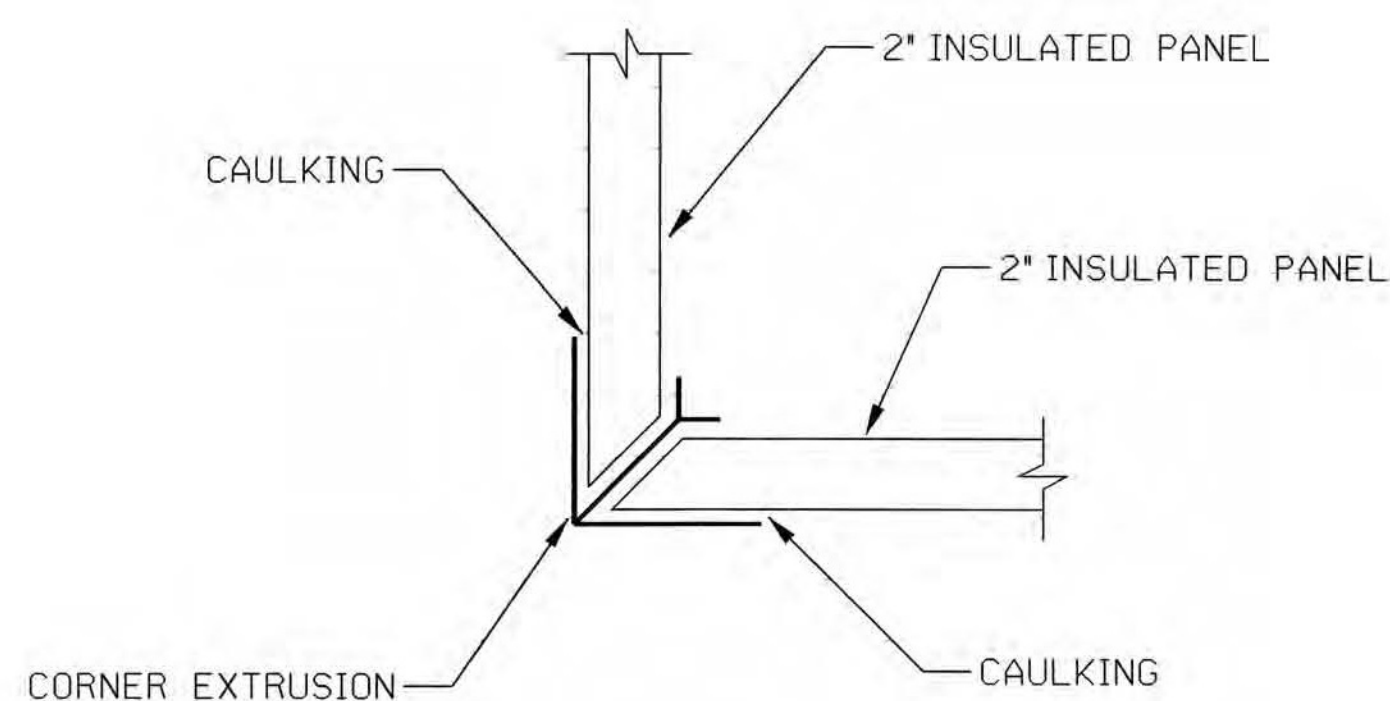
ROOF CONNECTION
NTS



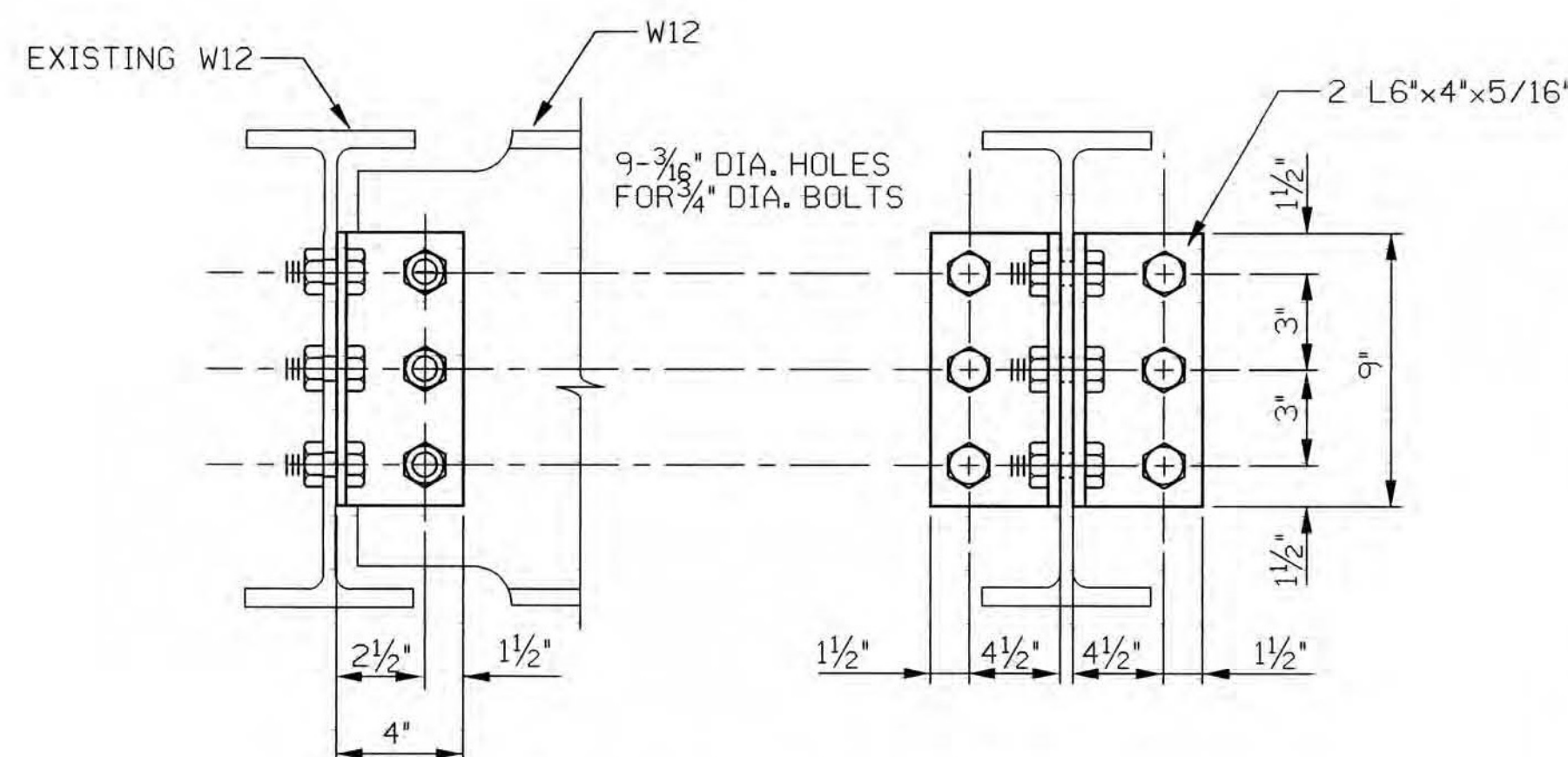
PIPE PENETRATION
NTS



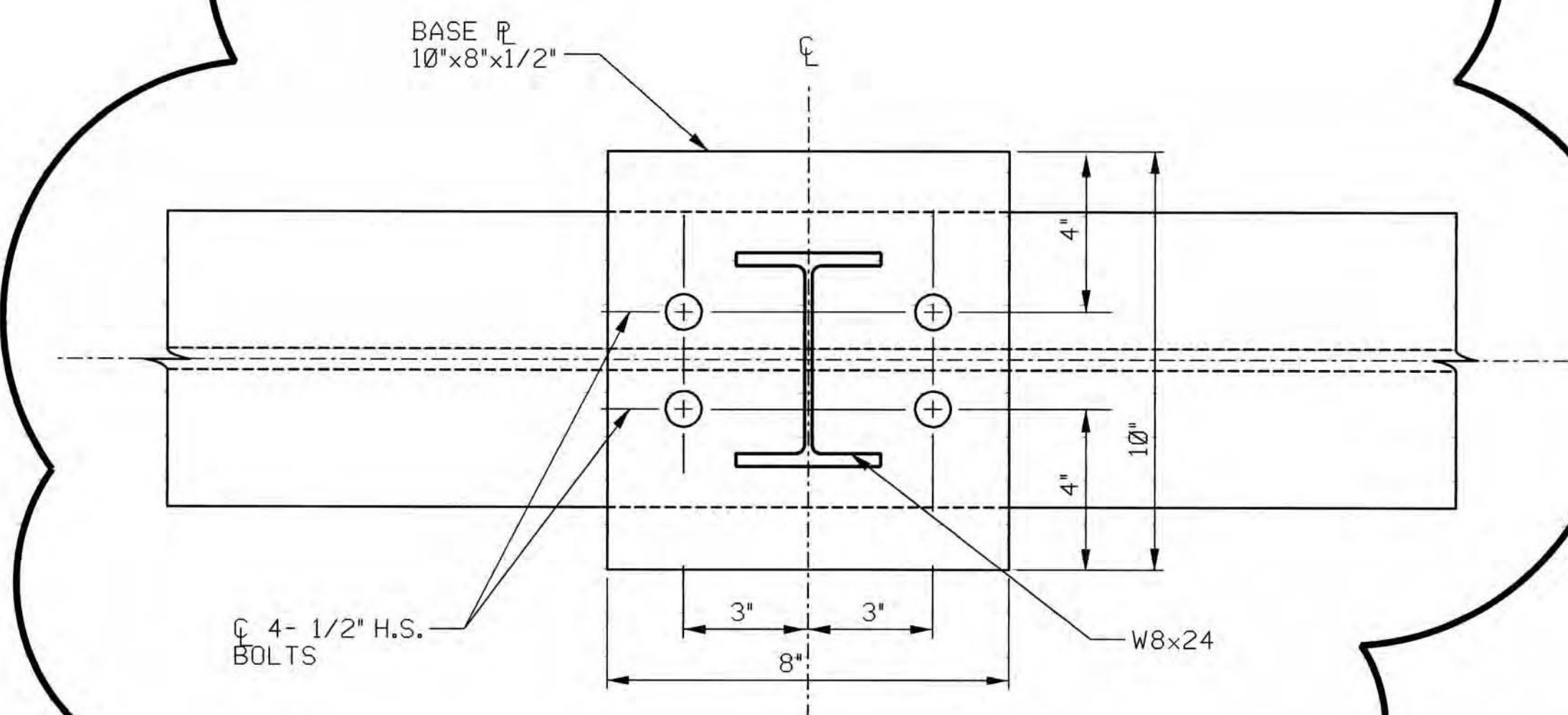
COLUMN CONNECTION
NTS



PANEL CORNER
NTS

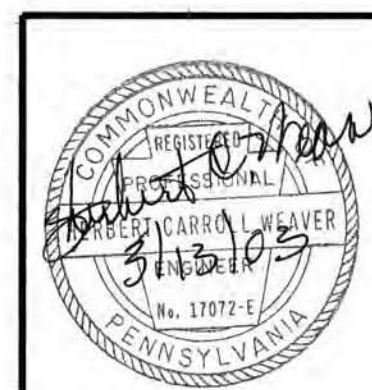


TYPE I CONNECTION
NTS



SECTION
NTS

K. BABIN
DRAWN BY:
H. WEAVER
CHECKED BY:
H. WEAVER
EXAMINED BY:



ALLEGHENY COUNTY
sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCO SAN

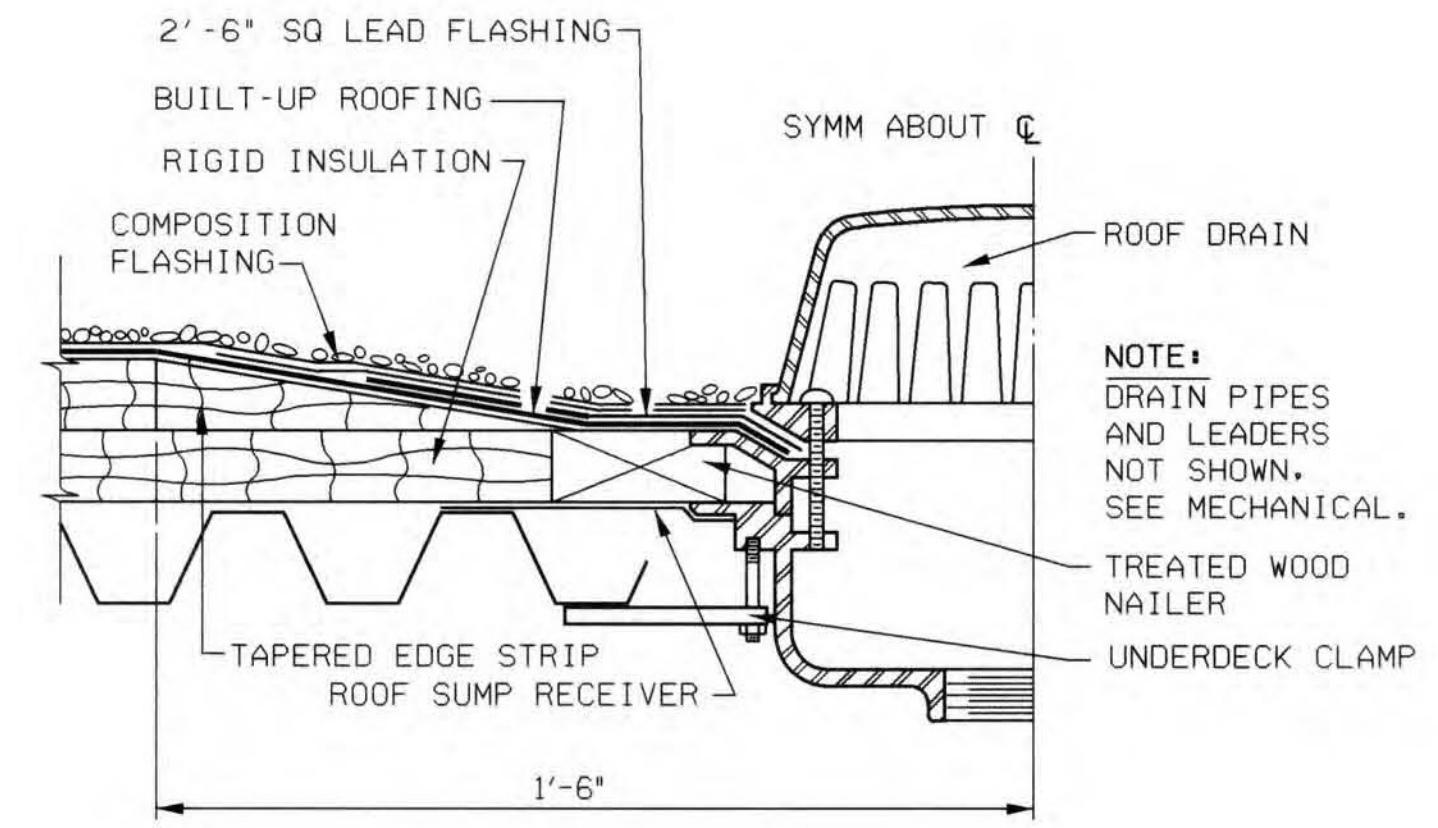
REV.	DESCRIPTION	DATE	APP.
5			
4			
3			
2			
1	PCO No. 01	3/13/03	HCW

ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
PITTSBURGH, PENNSYLVANIA

NEW STANDBY BOILER
411-S-07
BOILER ROOM
STRUCTURAL STEEL
DETAILS

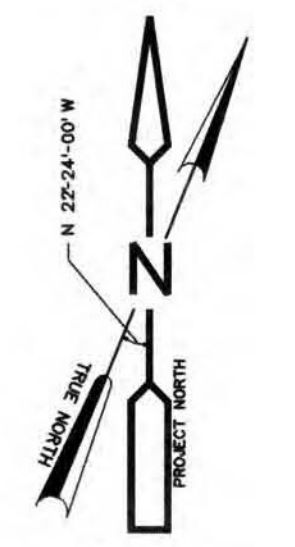
SCALE: AS SHOWN CONTRACT NO. 1254

FILENAME: 411s07.dgn
DATE PLOTTED: 3-10-03

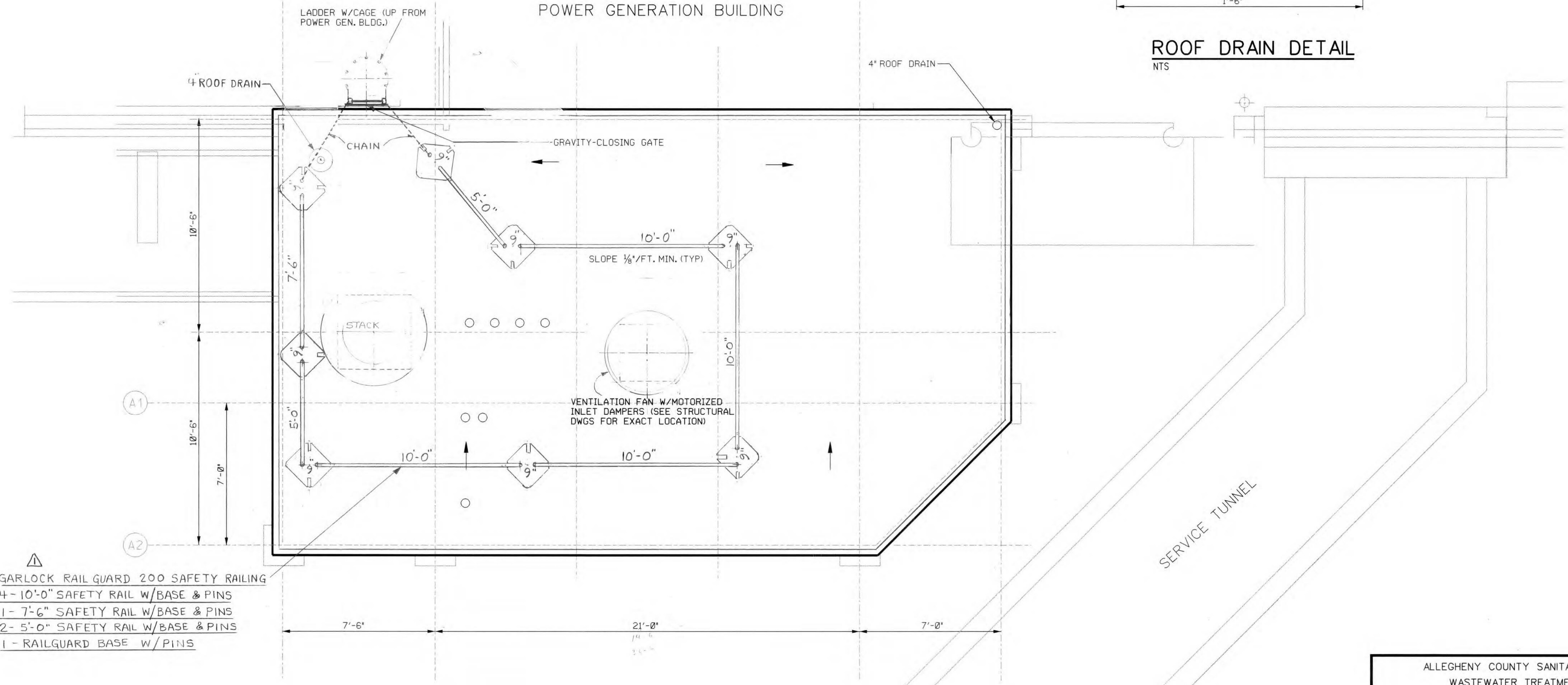


ROOF DRAIN DETAIL
NTS

NOTE:
DRAIN PIPES
AND LEADERS
NOT SHOWN.
SEE MECHANICAL.



POWER GENERATION BUILDING



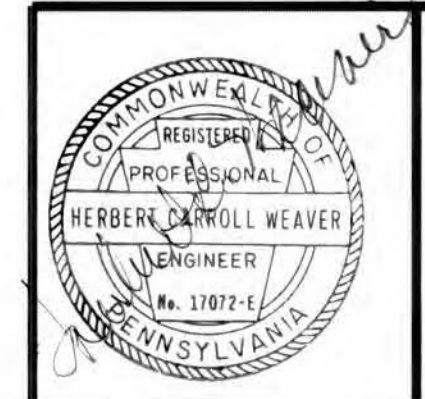
PLAN
3/8" = 1'-0"

- NOTES:
1. TOP OF STEEL EL. 753.0
 2. USE TYPE 1.5B VULCRAFT DECK TYPE B-18 OR EQUAL.

- △ GARLOCK RAIL GUARD 200 SAFETY RAILING
- 4- 10'-0" SAFETY RAIL W/BASE & PINS
 - 1- 7'-6" SAFETY RAIL W/BASE & PINS
 - 2- 5'-0" SAFETY RAIL W/BASE & PINS
 - 1- RAILGUARD BASE W/PINS

ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT PITTSBURGH, PENNSYLVANIA	
NEW STANDBY BOILER	
411-S-10 ROOF DRAIN PLAN	
SCALE: AS SHOWN	CONTRACT NO. 1254
FILENAME: 411s10.dgn	DATE PLOTTED: 09-13-02

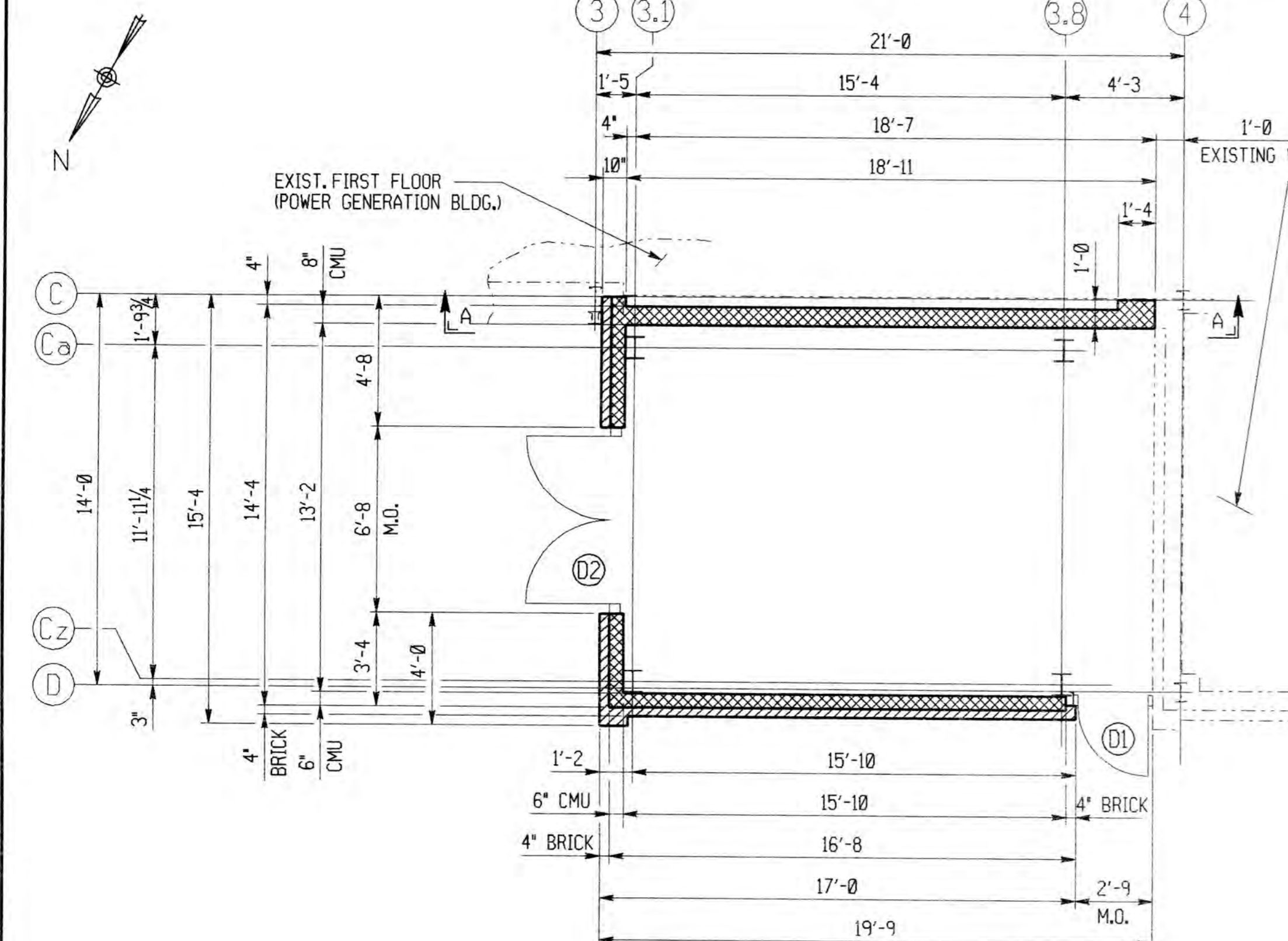
K. BABIN
DRAWN BY:
H. WEAVER
CHECKED BY:
H. WEAVER
EXAMINED BY:



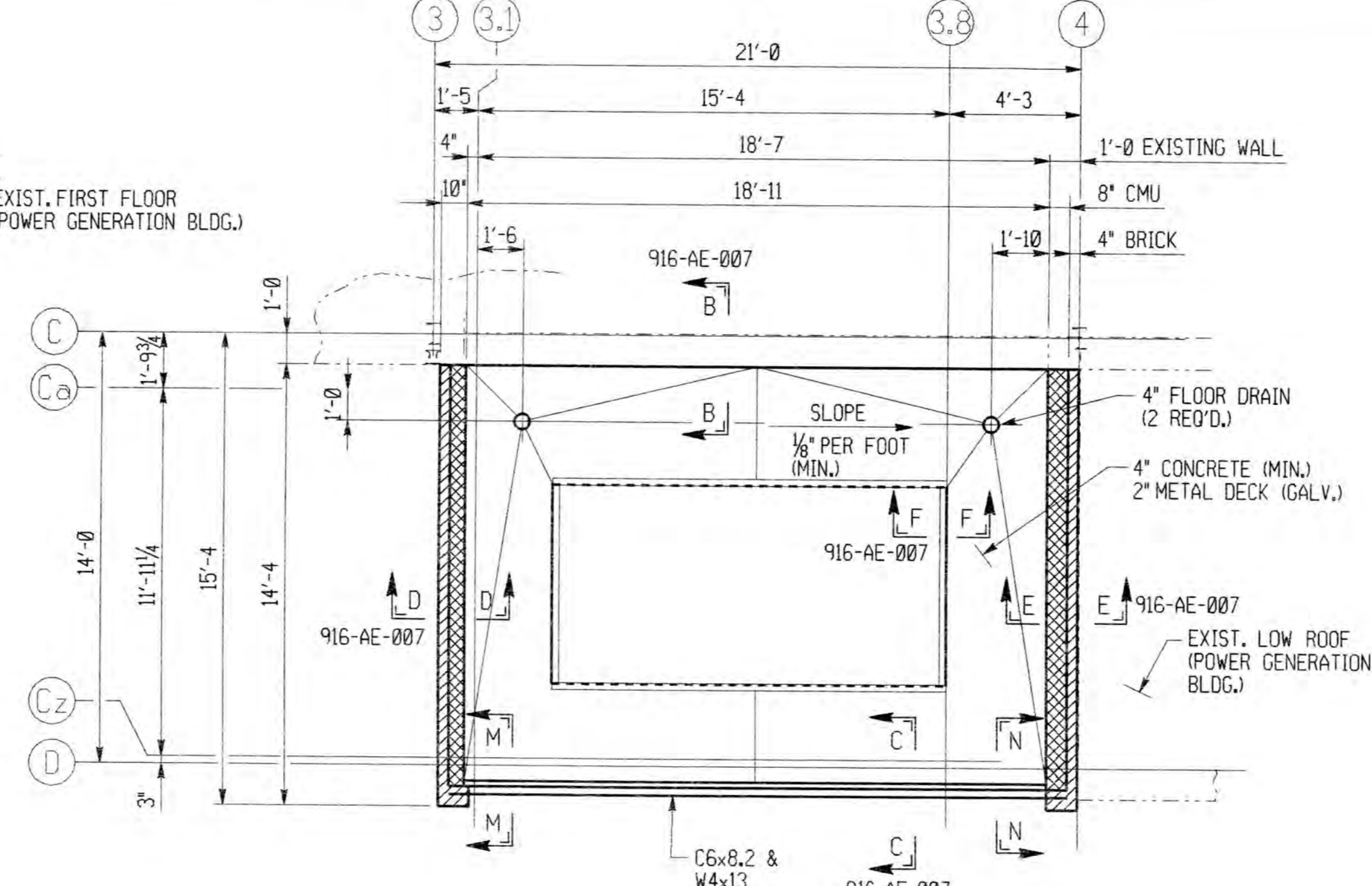
alcosan
alleggheny county sanitary authority

ARLETTA S. WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

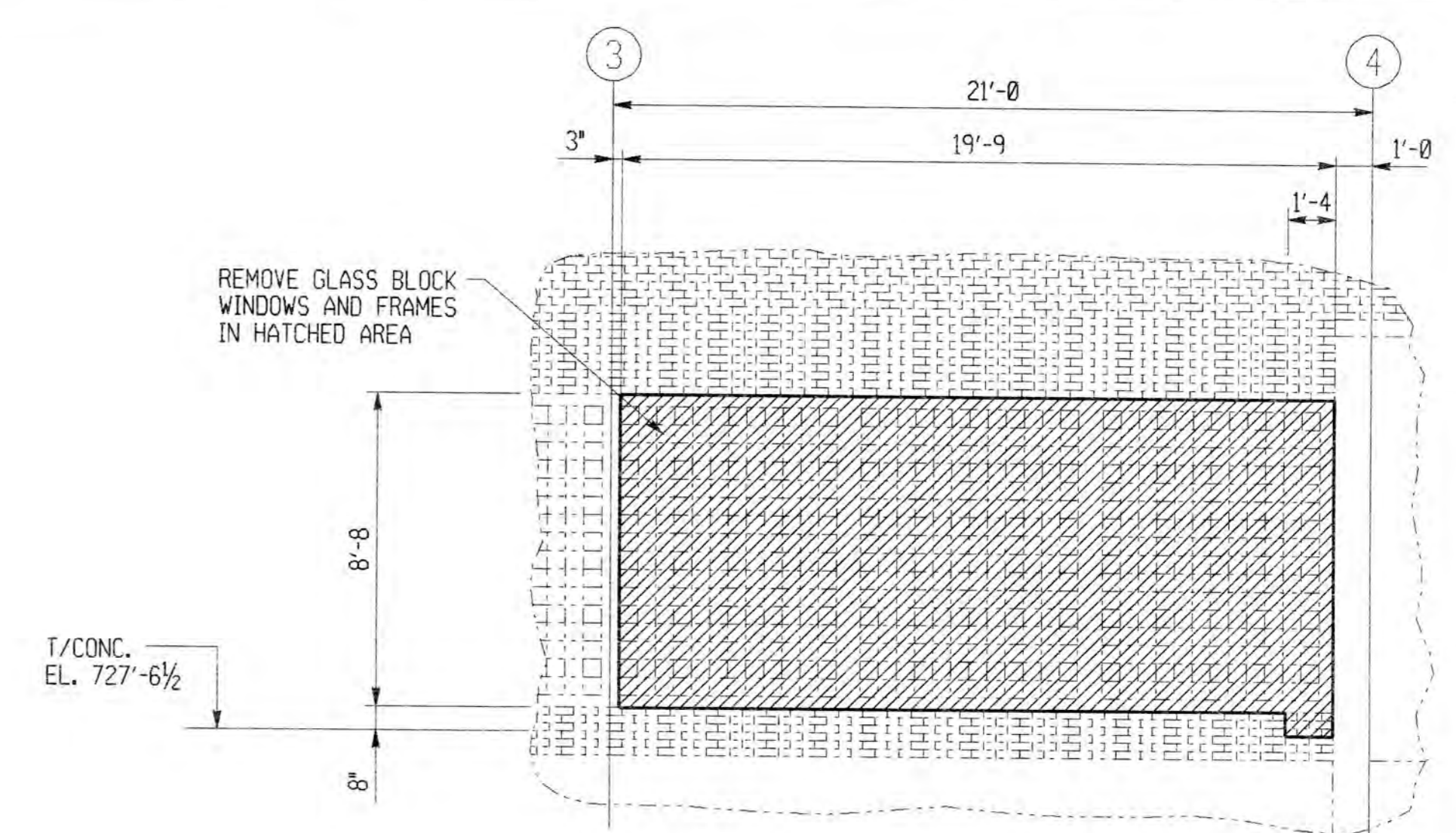
REV.	DESCRIPTION	DATE	APP.
5			
4			
3			
2			
1	ADDED SAFETY RAILINGS	7-1-04	UF



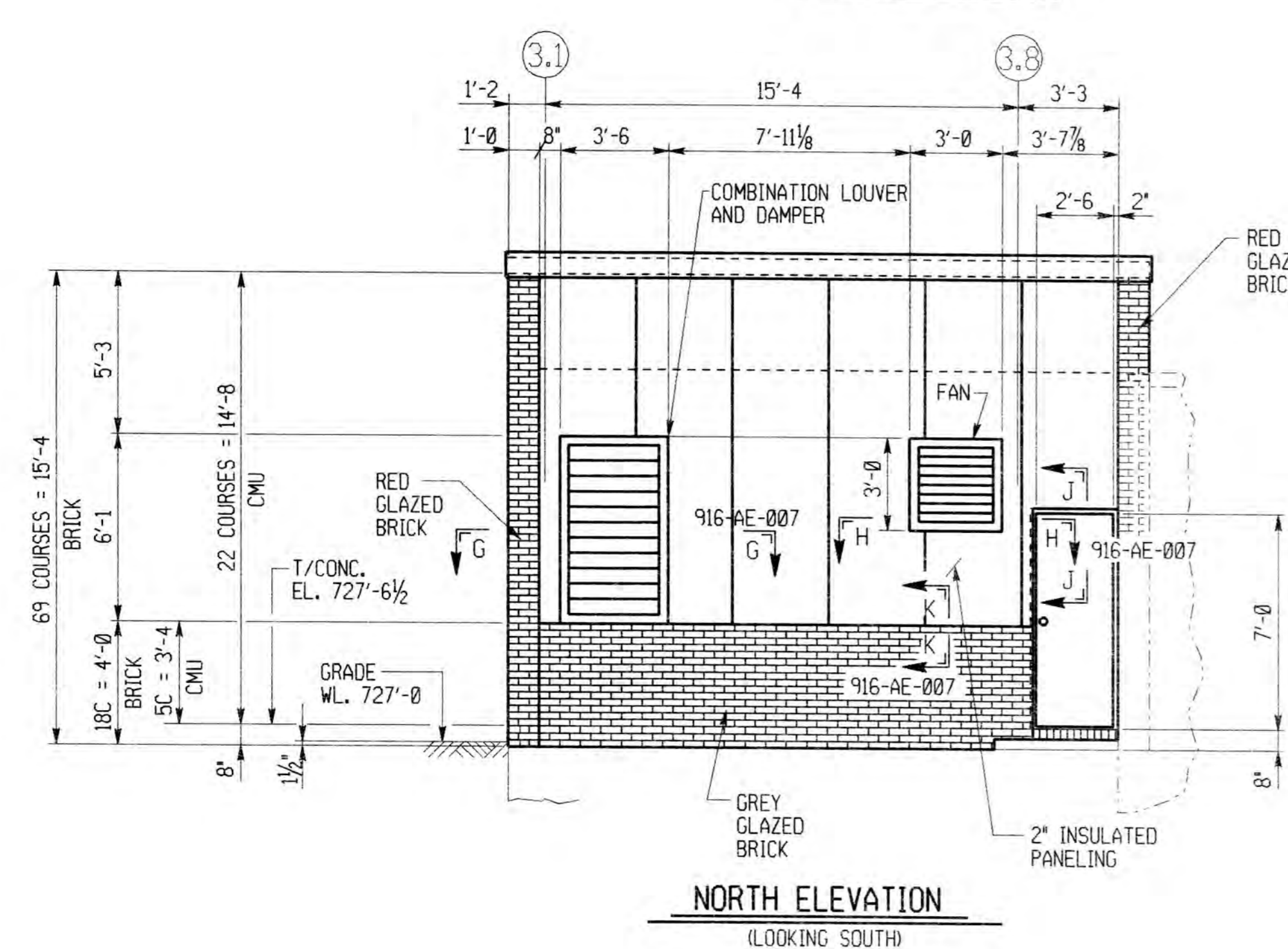
FLOOR PLAN



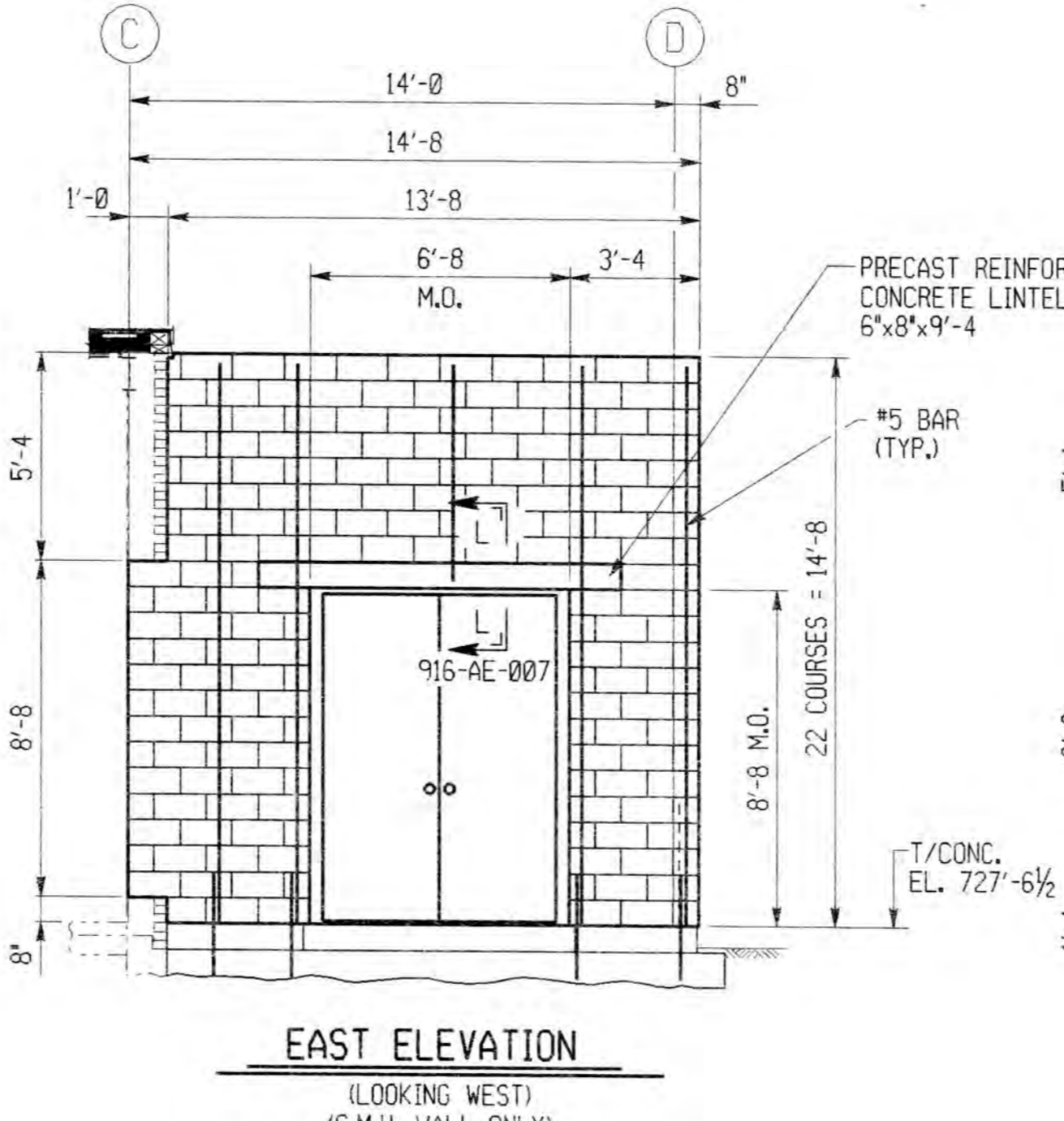
ROOF PLAN



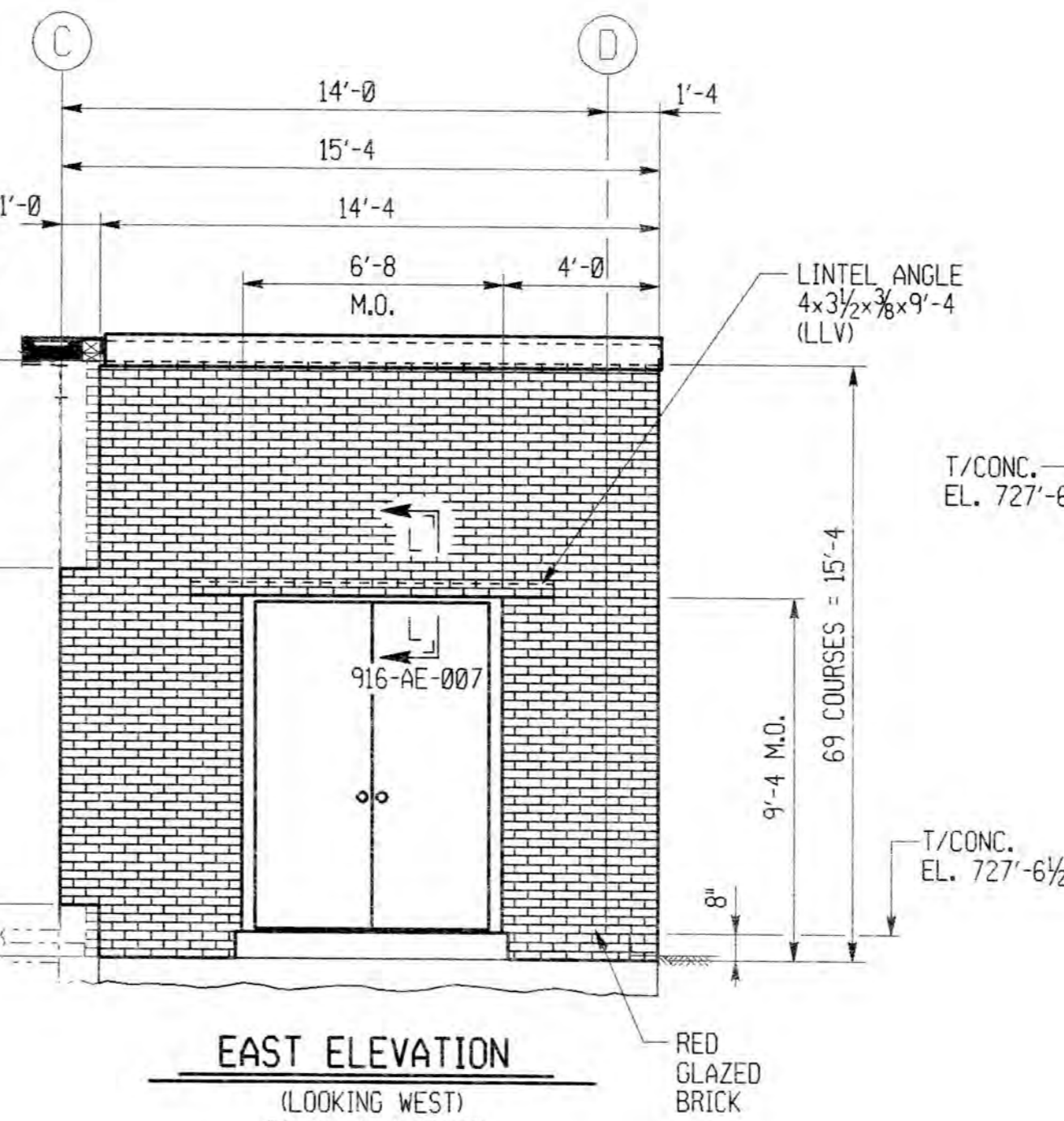
SECTION A-A (DEMOLITION)



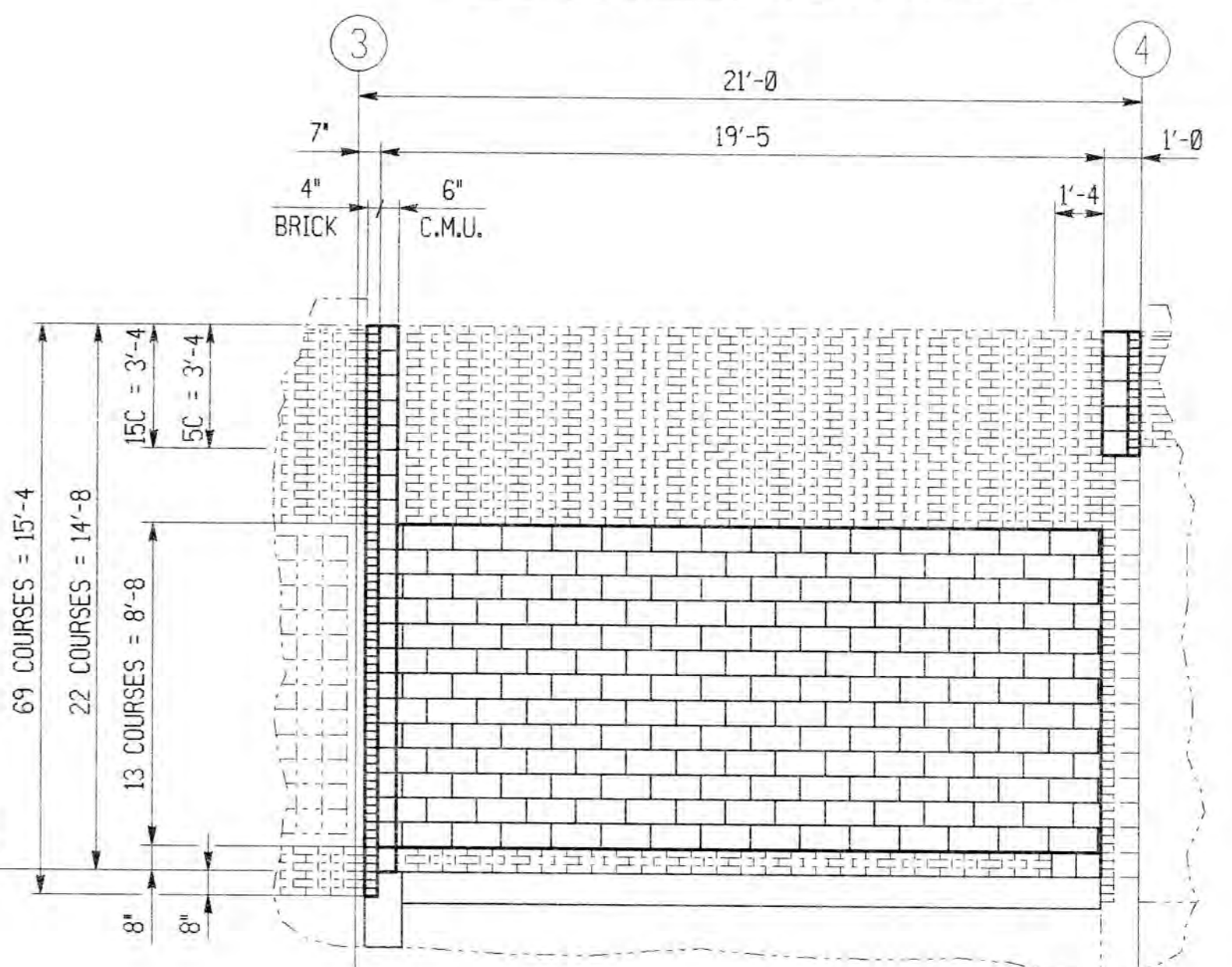
NORTH ELEVATION (LOOKING SOUTH)



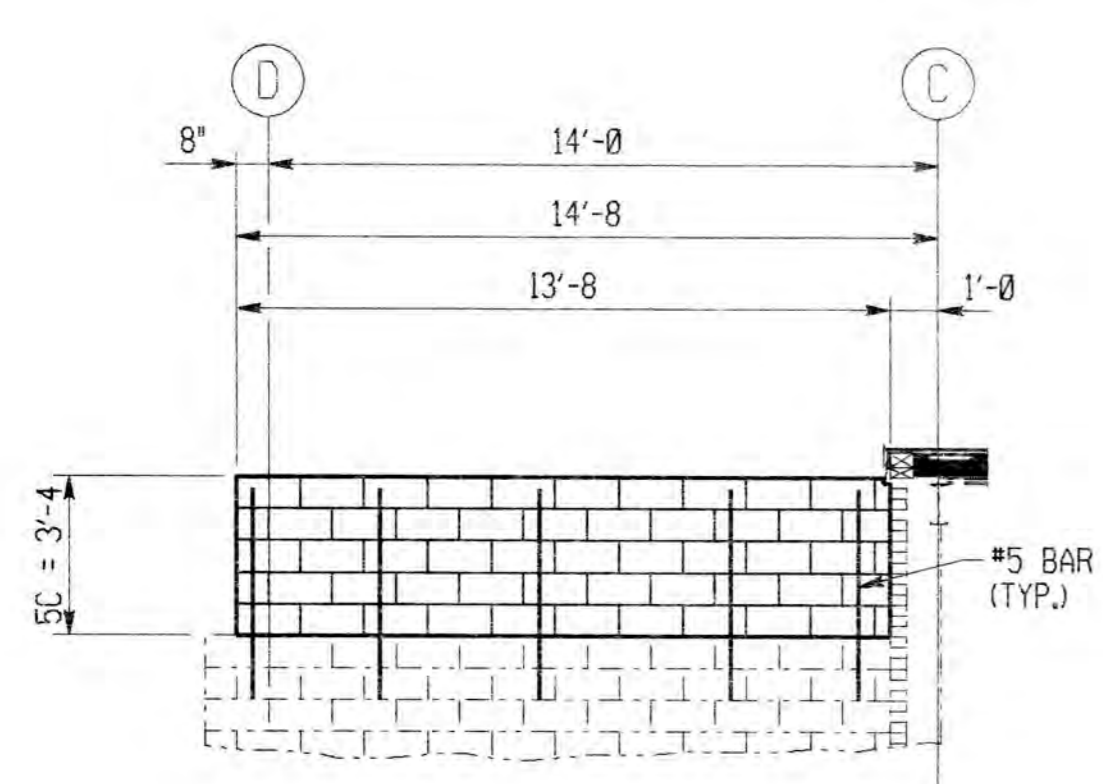
EAST ELEVATION (LOOKING WEST) (C.M.U. WALL ONLY)



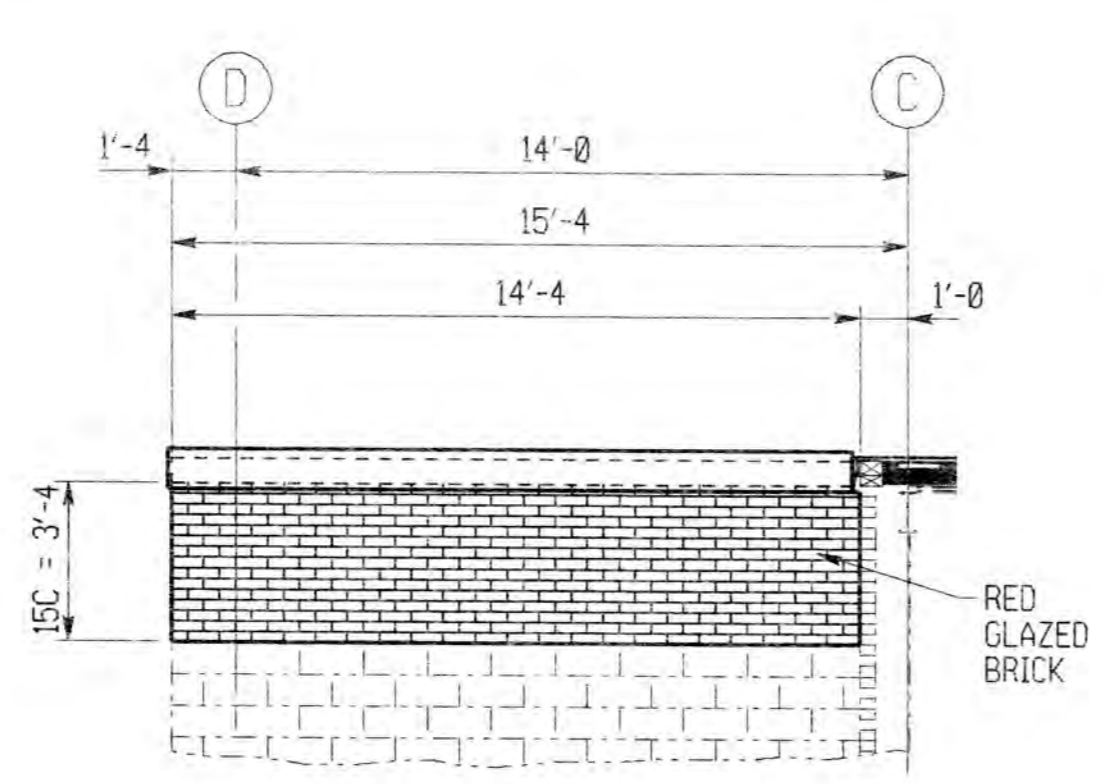
EAST ELEVATION (LOOKING WEST) (BRICK WALL ONLY)



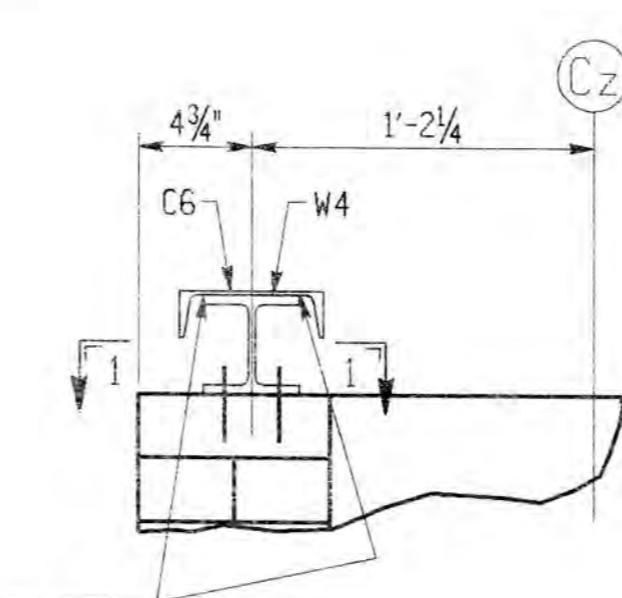
SECTION A-A



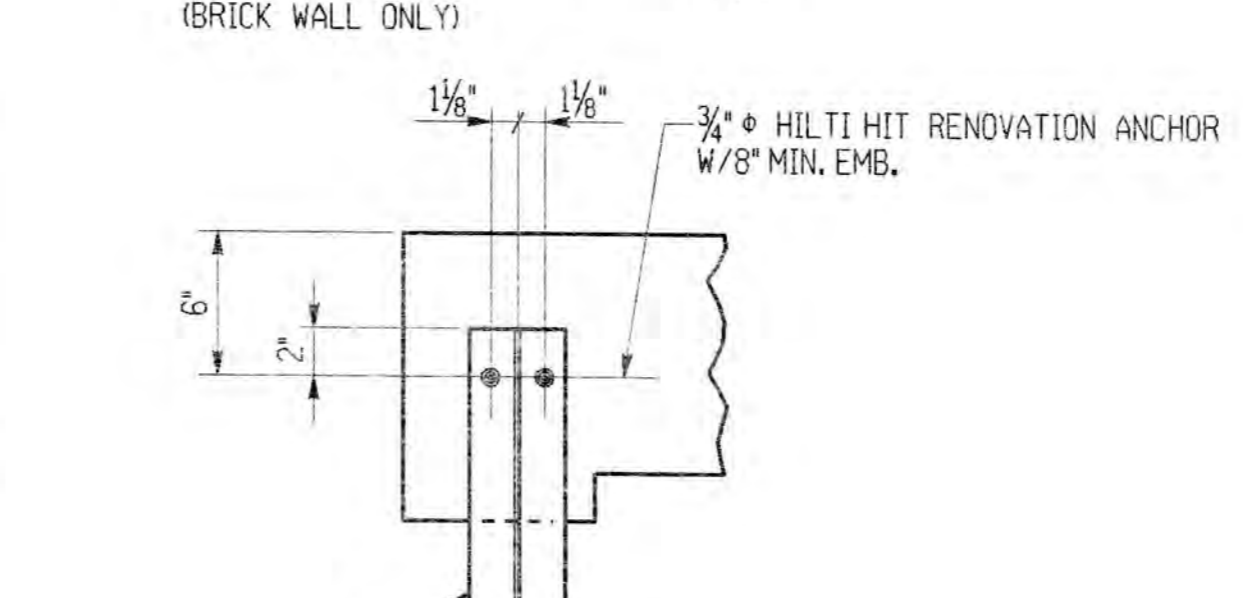
WEST ELEVATION (LOOKING EAST) (C.M.U. WALL ONLY)



WEST ELEVATION (LOOKING EAST) (BRICK WALL ONLY)



SECTION M-M (AS SHOWN)



SECTION N-N (OPP. HAND)

SECTION 1-1

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

- NOTES:
- FOR GENERAL NOTES, SEE DWG. 916-GN-015.
 - WORK THIS DRAWING WITH DWG. 916-CF-023, 916-CS-136 & 916-AE-007.
 - BRICK SHALL BE RED OR GREY GLAZED BRICK TO MATCH EXISTING BUILDING.
 - TOP COURSE OF CMU ON ALL EXTERIOR WALLS TO BE SOLID.

DRAWN BY LS
 CHECKED BY CEM
 EXAMINED BY
 DATE PLOTTED 27-JAN-1994

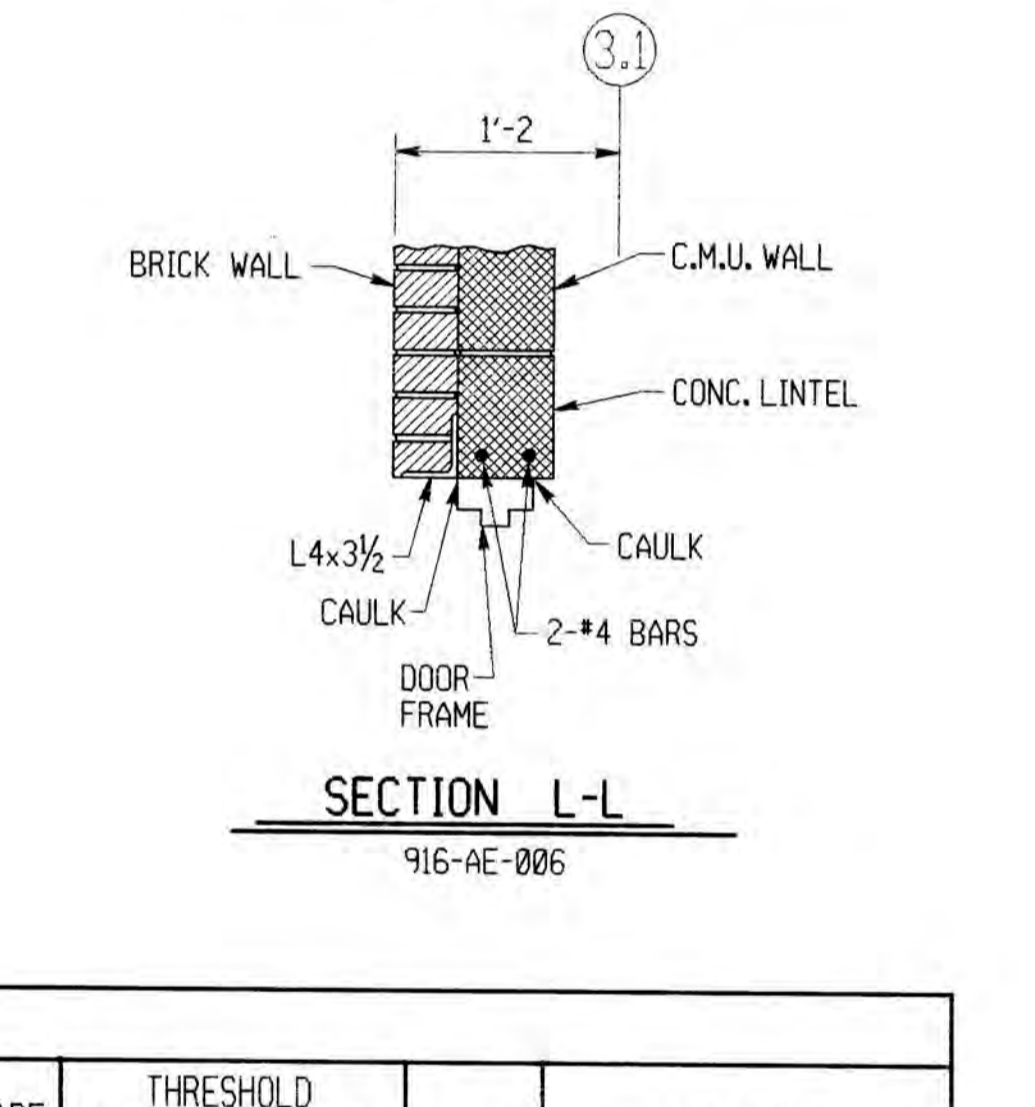
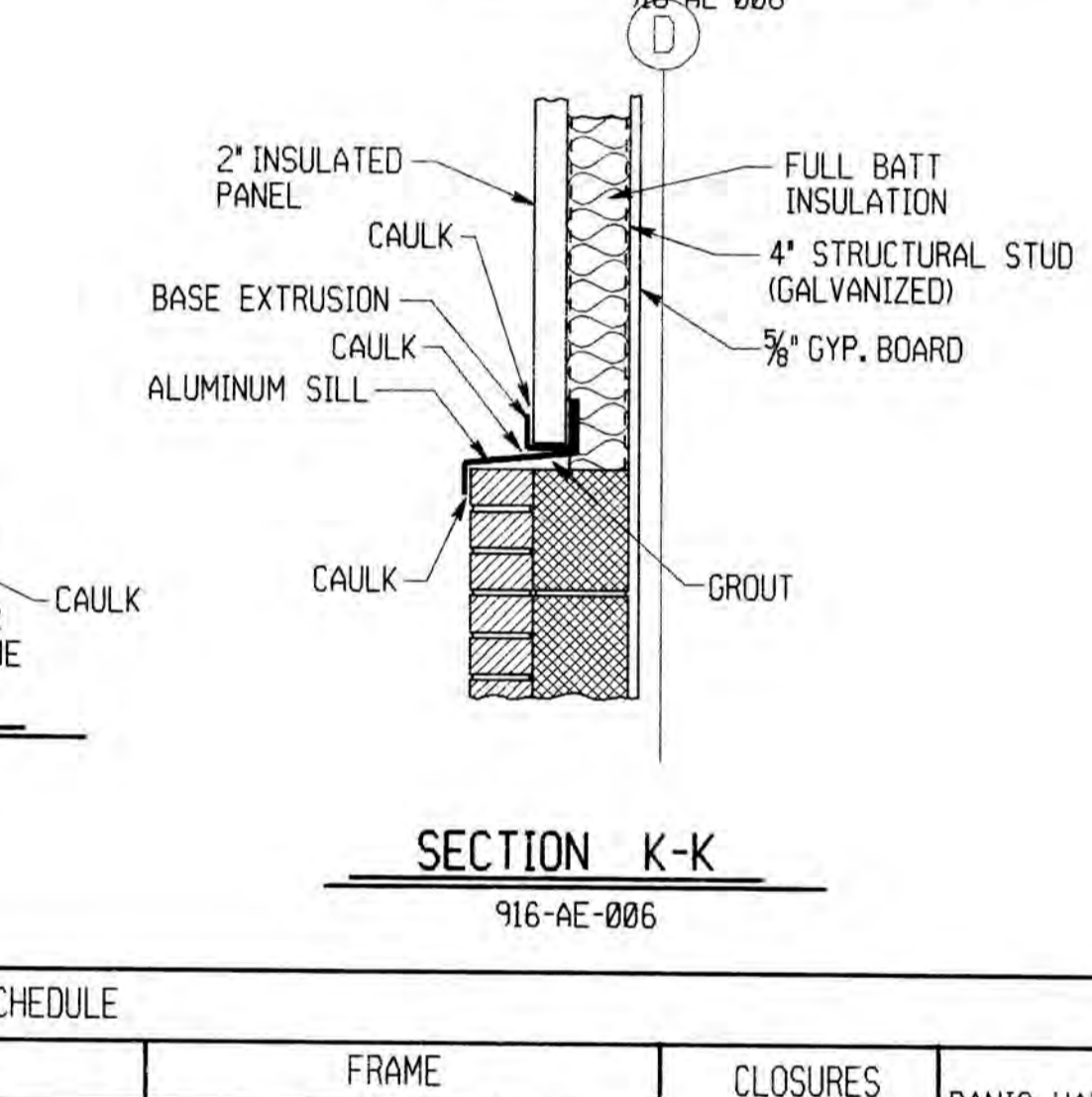
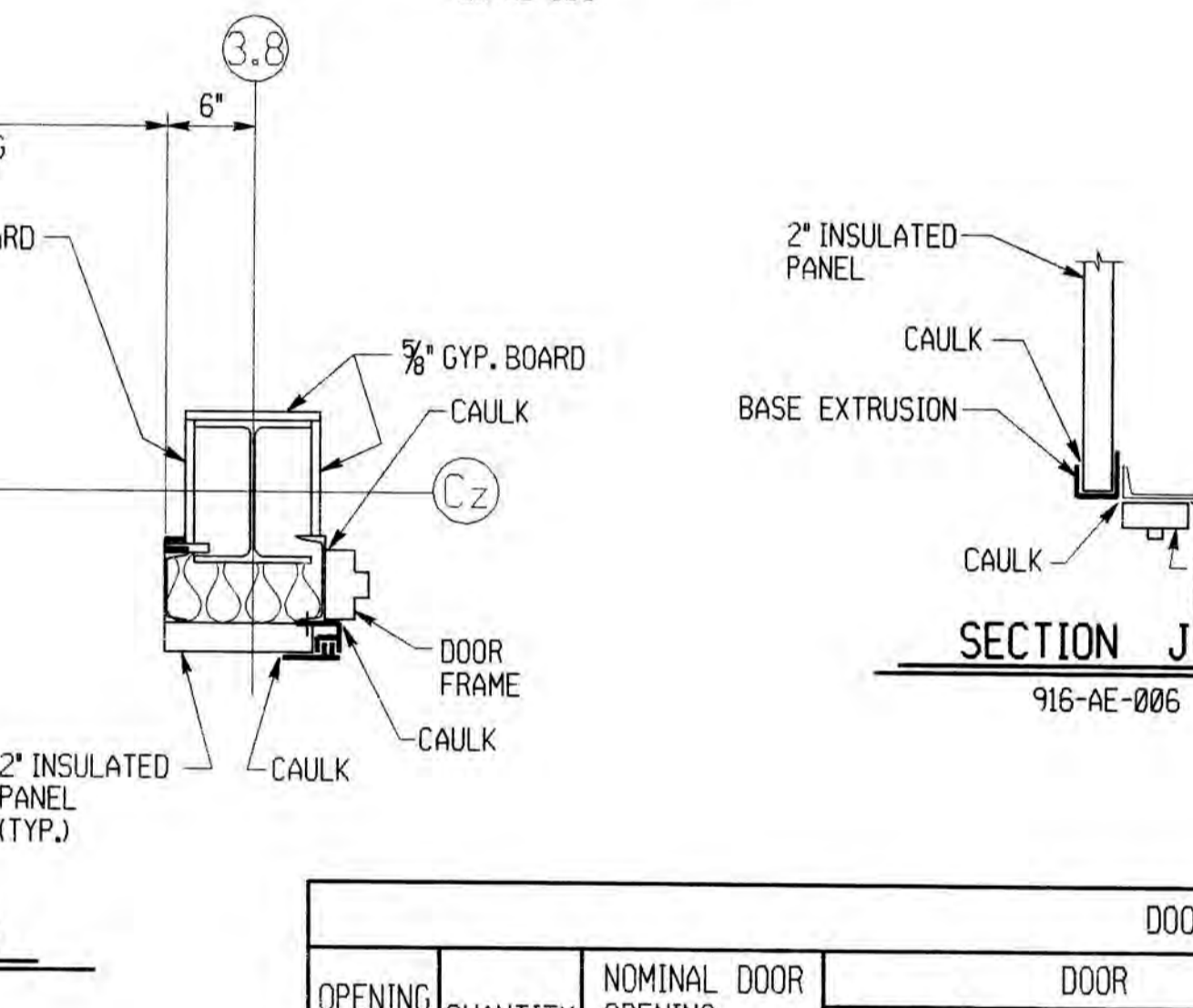
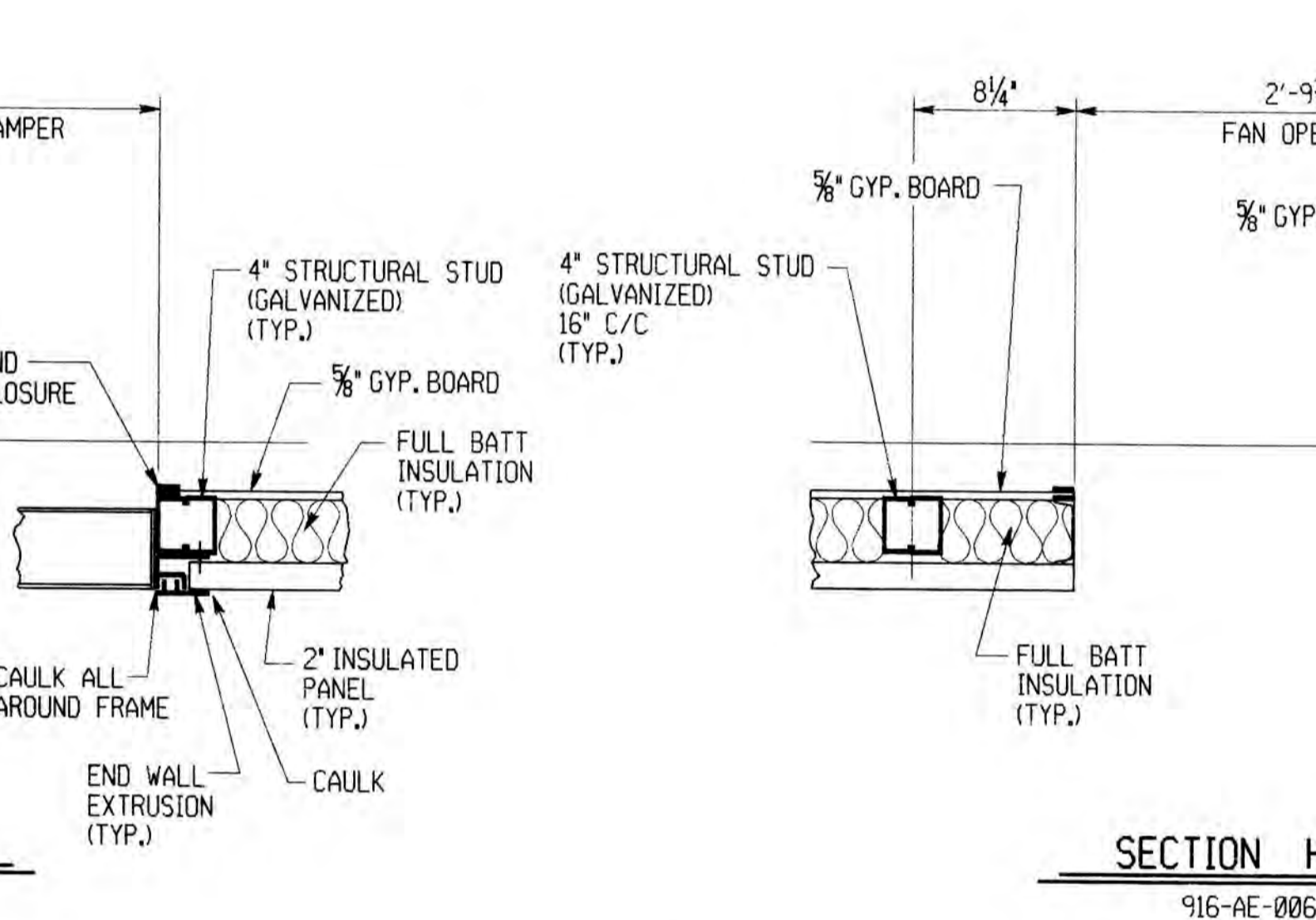
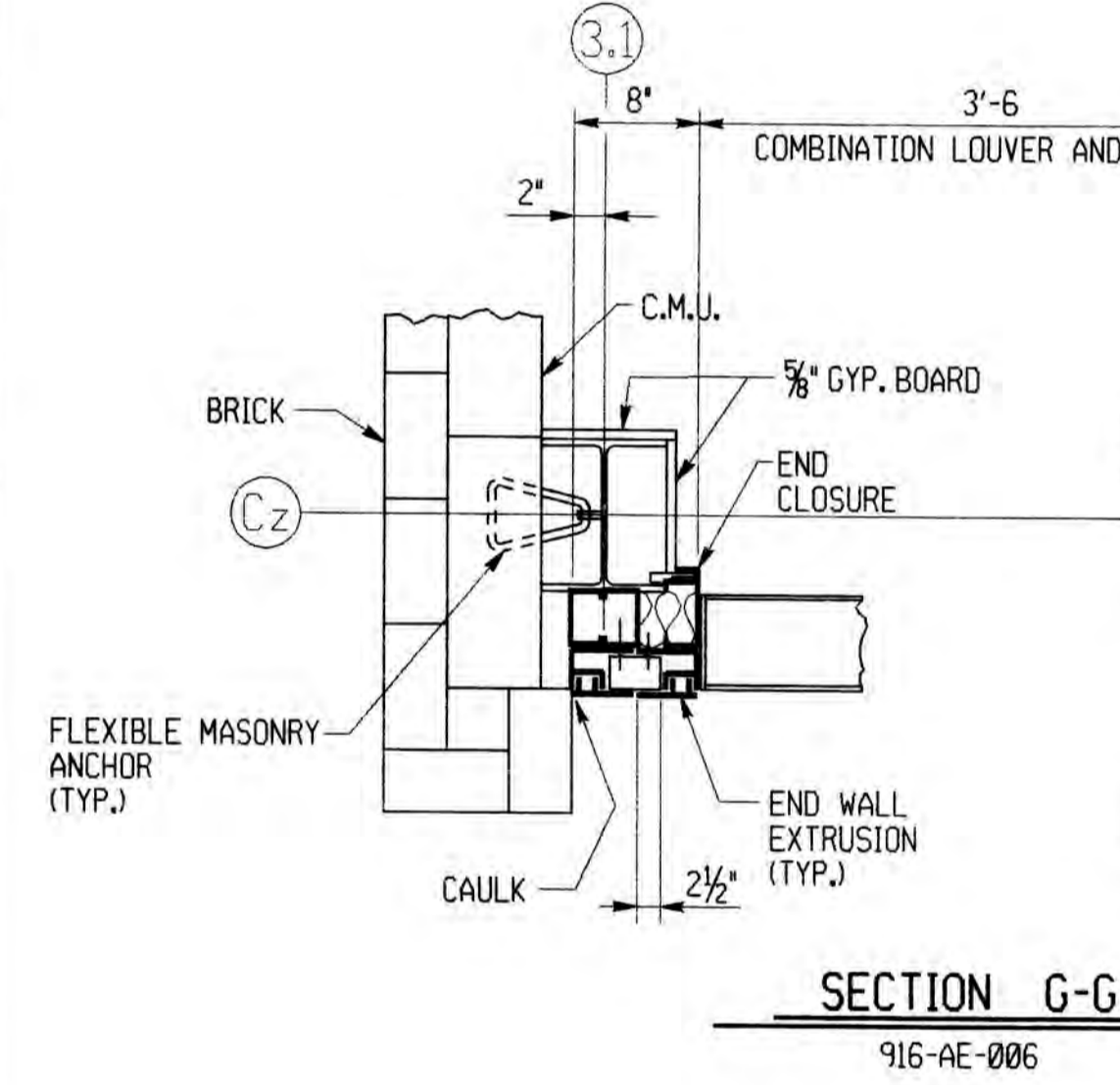
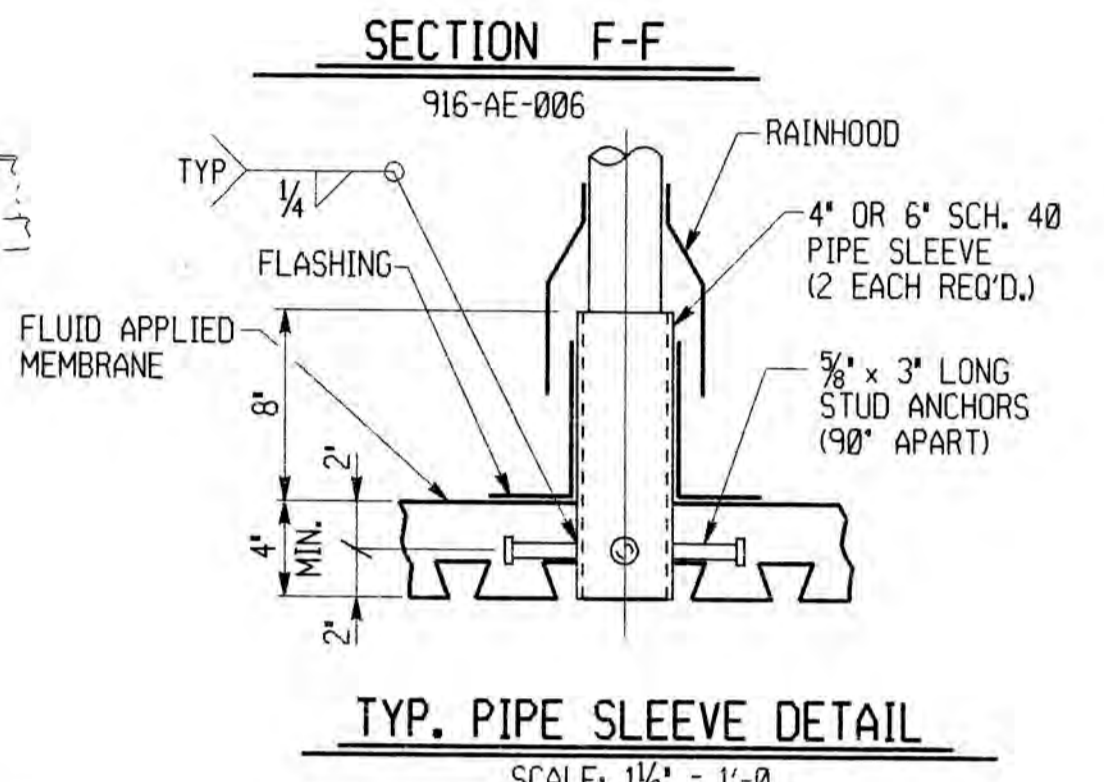
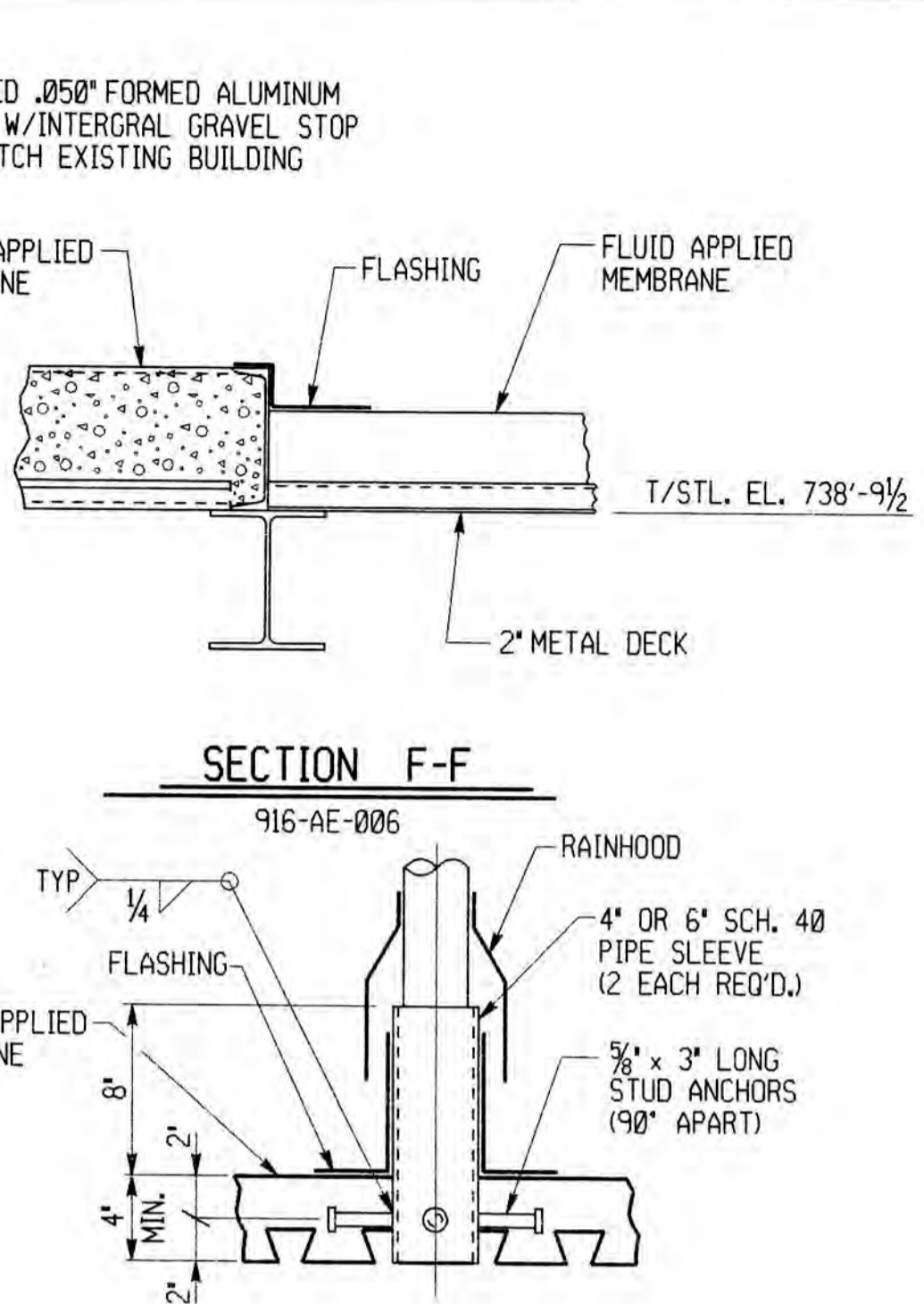
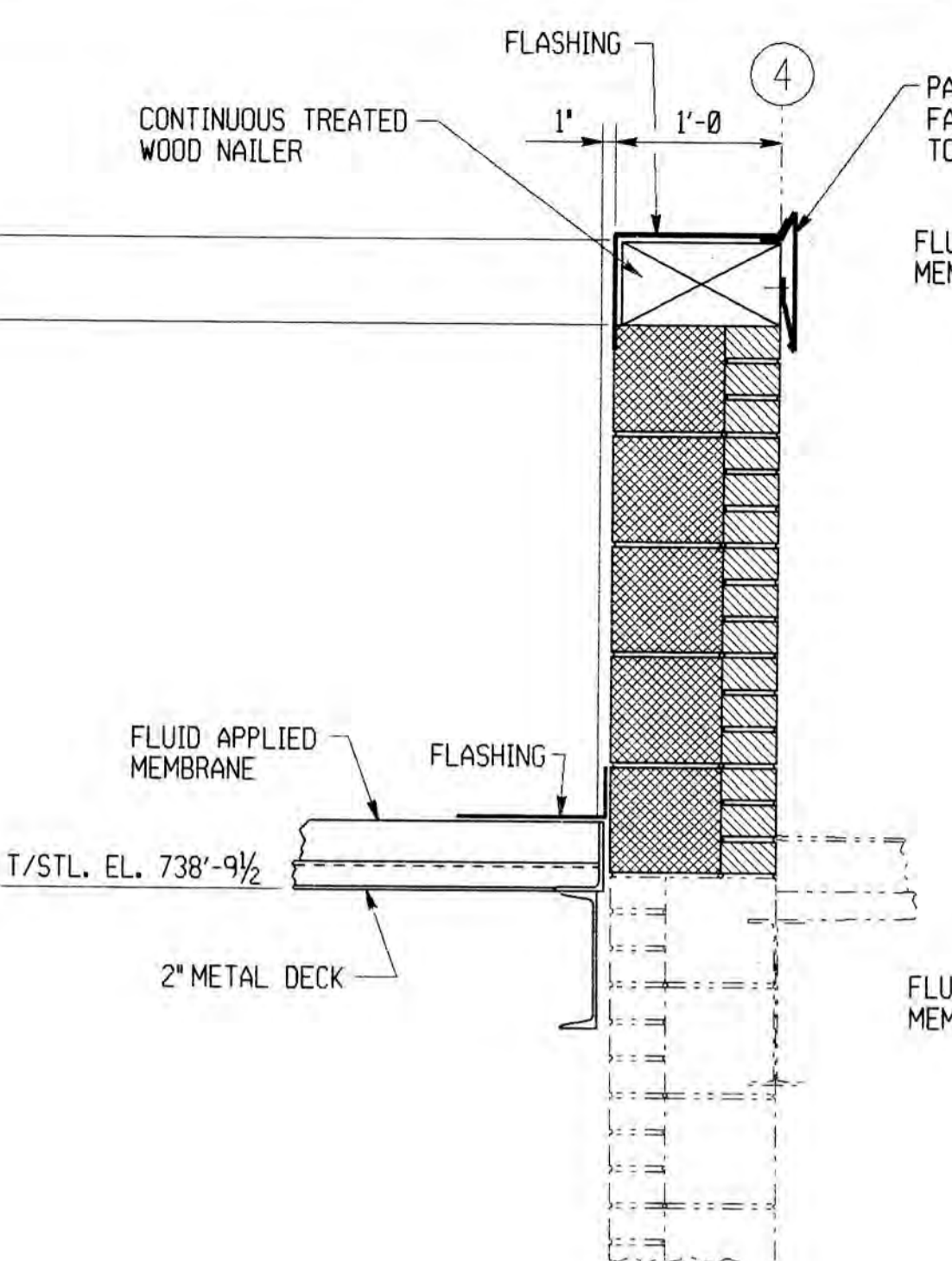
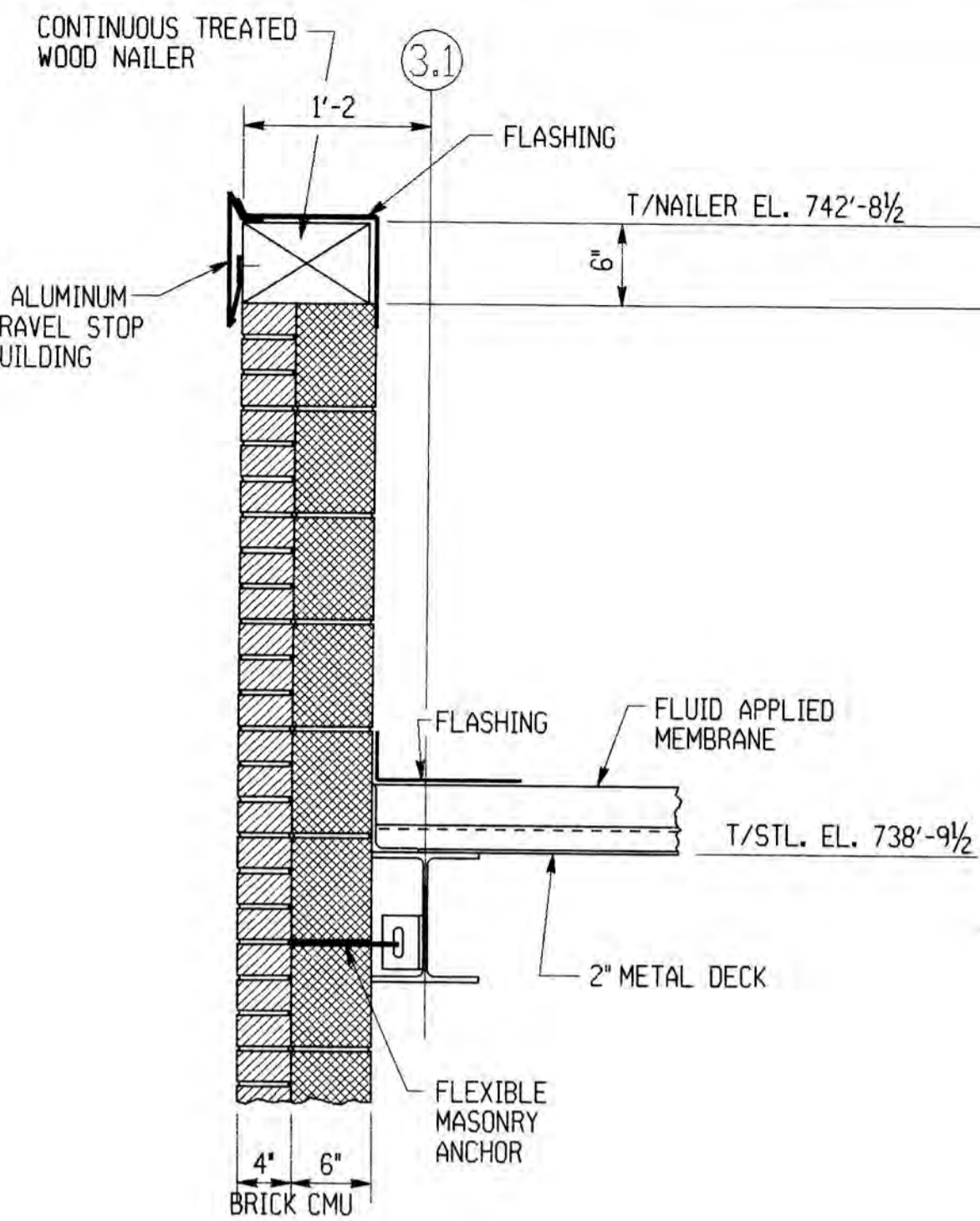
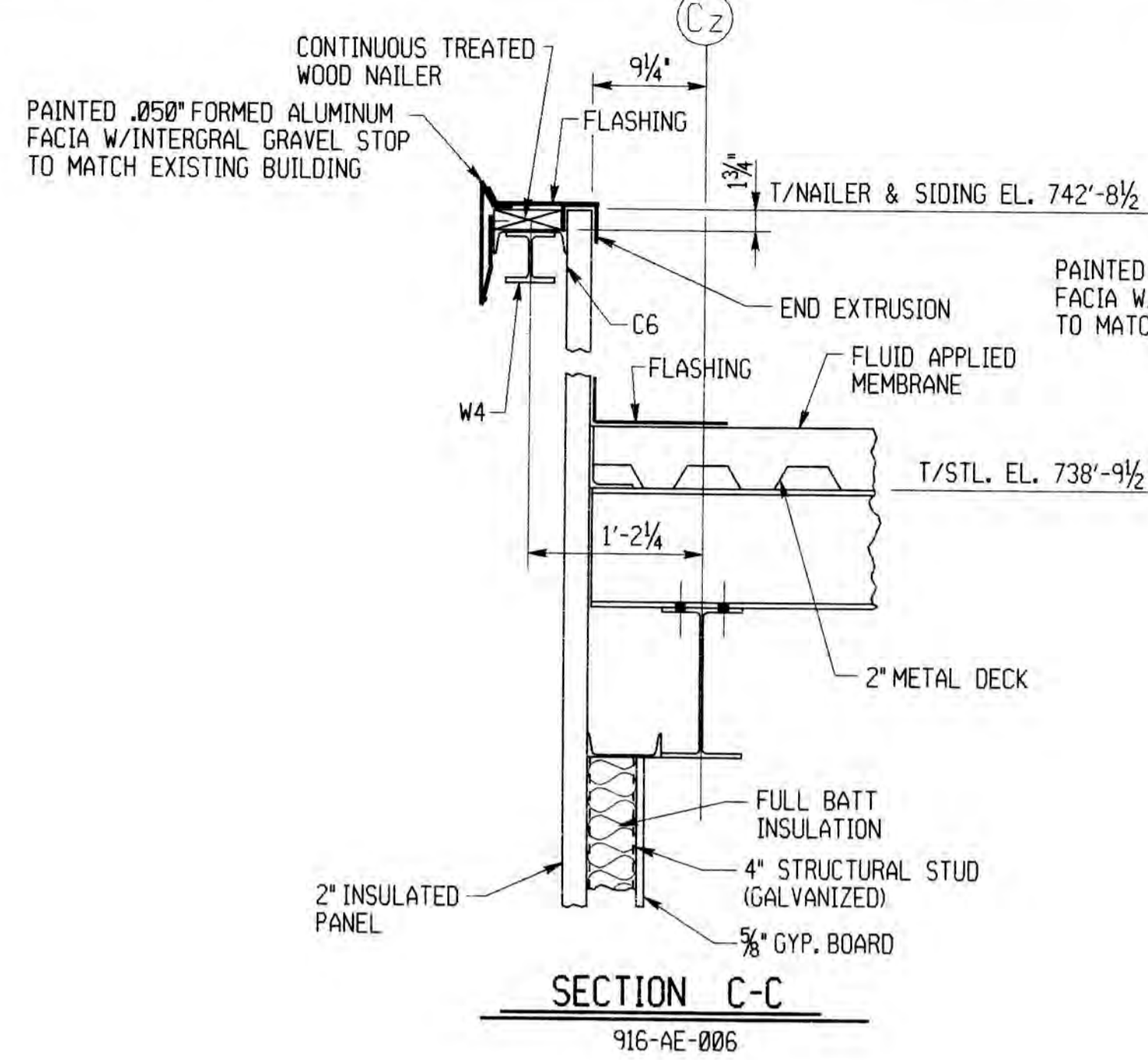
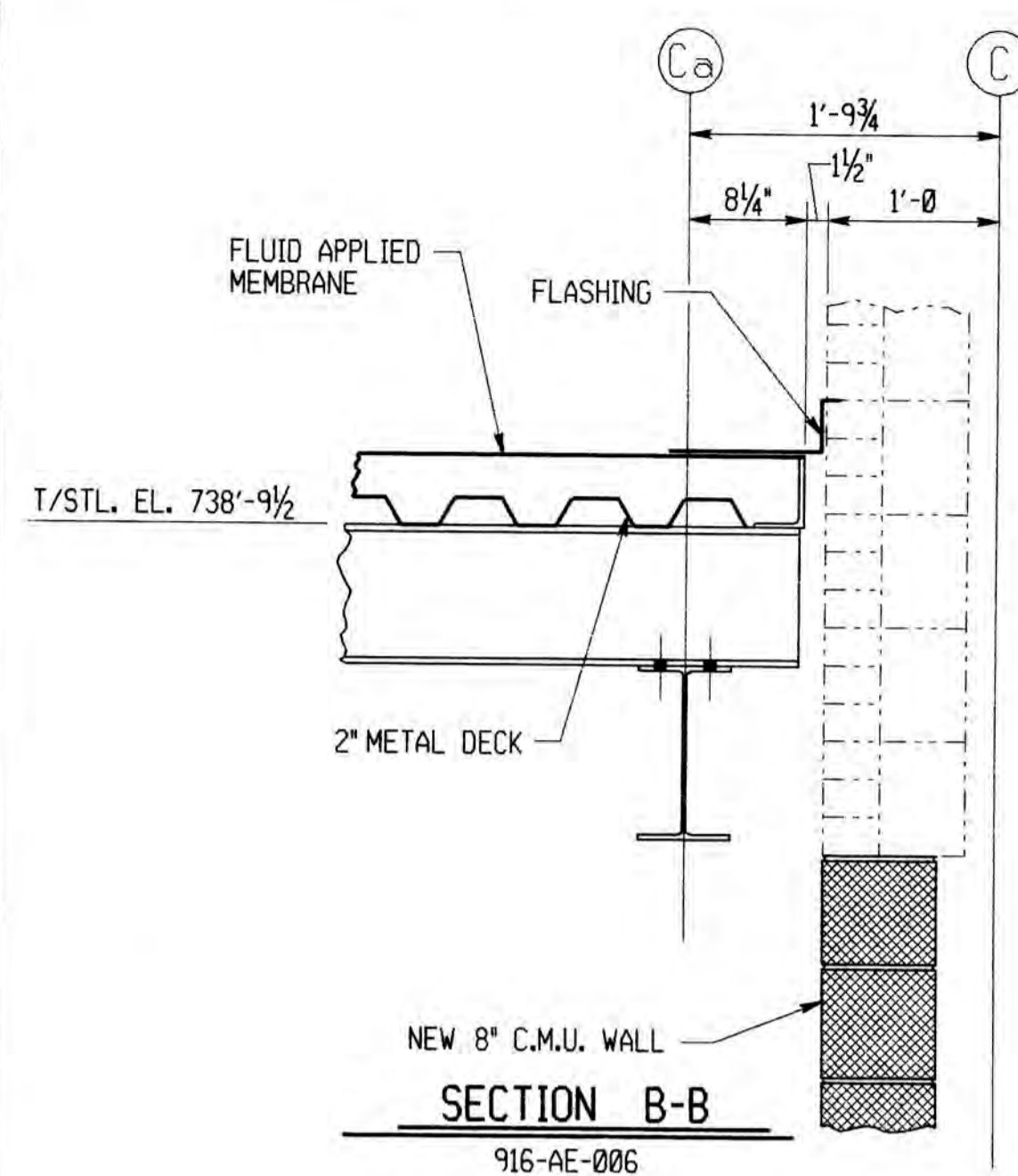
IGDS# /usr/nms/dgn/916ae006.dgn
 SE DWG.# 916-AE-006
SE TECHNOLOGIES, INC.
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE # ME000108
 PENNSYLVANIA

REV.	DESCRIPTION	DATE	APP.	APPROVED
0	RELEASED WITH CONTRACT 916W-1 ADDENDUM No. 1	1-94		William C. Tref EXECUTIVE DIRECTOR, PA 05-026064-E DATE 2/7/94
1				Joseph W. Stenzel DIRECTOR OF ENGR. & CONST., PA. PE-19592-E DATE 2/7/94
2				
3				

ALLEGHENY COUNTY SANITARY AUTHORITY
 PITTSBURGH, PENNSYLVANIA

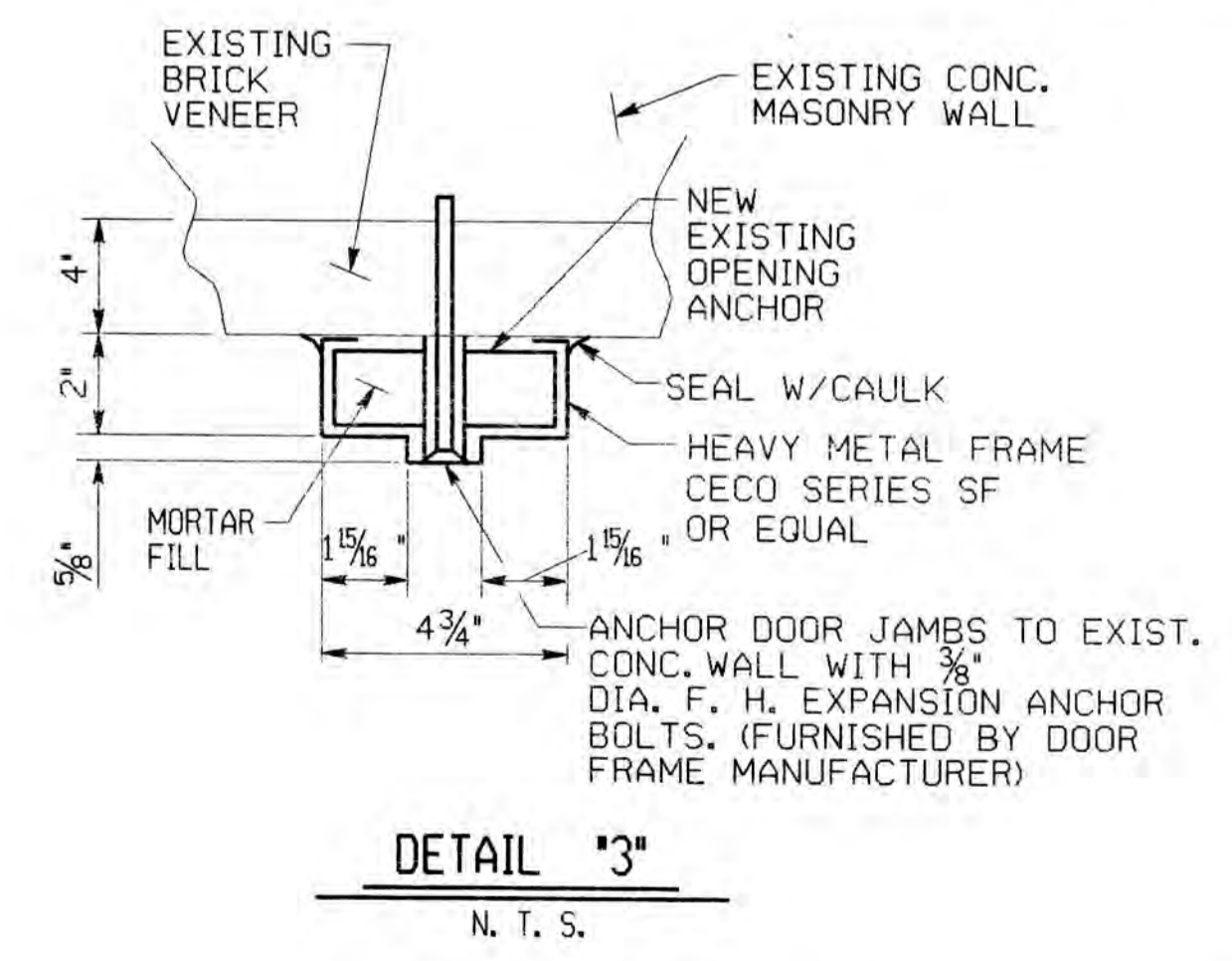
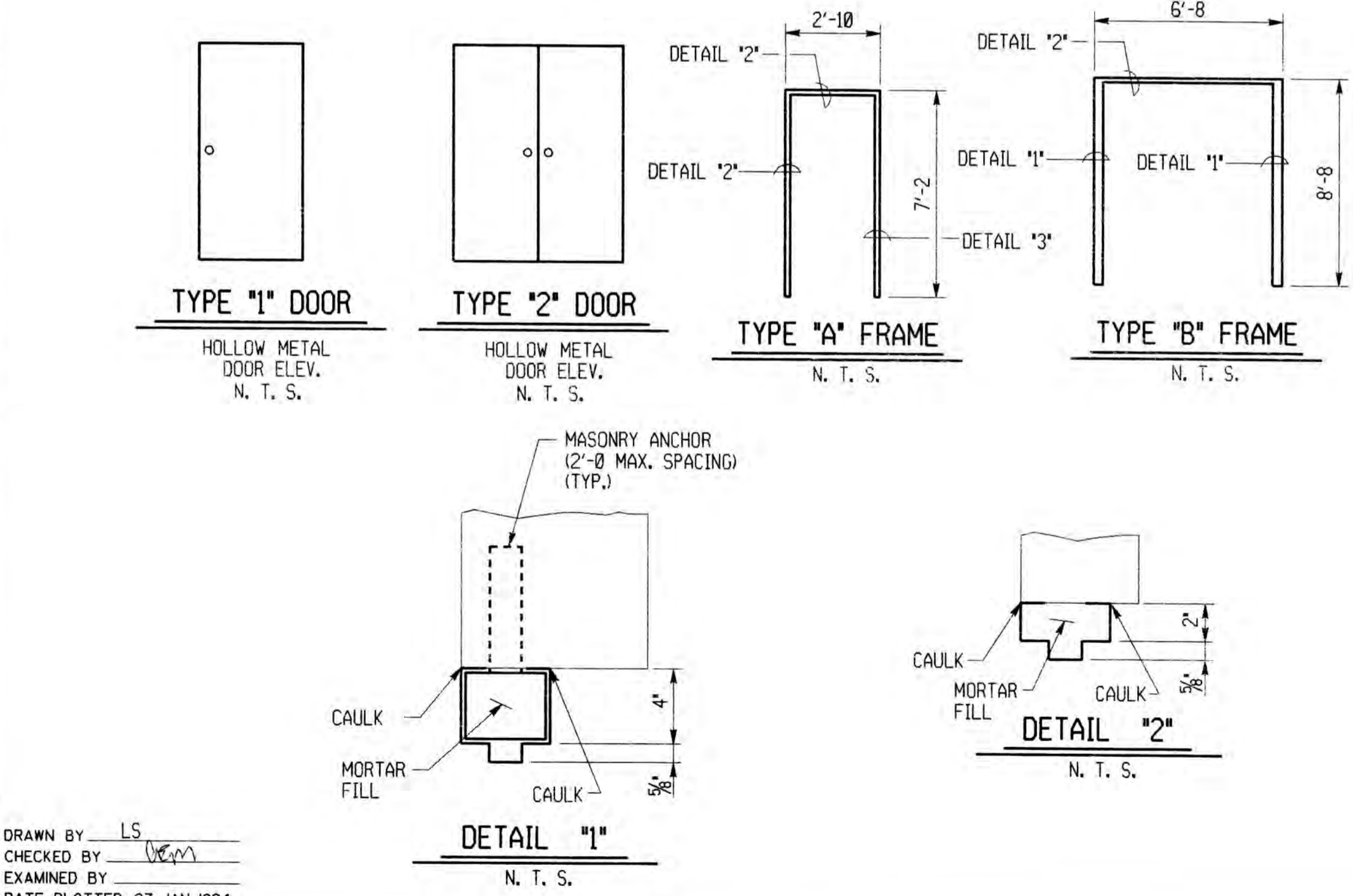
POWER GENERATION BUILDING
 ARCHITECTURAL
 EMERGENCY GENERATOR ENCLOSURE
 PLAN, ELEVATIONS & SECTIONS

SCALE: 1/4"=1'-0" U.N. CONTRACT 916W-1 SHEET 3 OF 3



DOOR SCHEDULE														
OPENING NUMBER	QUANTITY	NOMINAL DOOR OPENING DIMENSION	DOOR			FRAME			CLOSURES SEE SPEC. FOR TYPE	PANIC HARDWARE "CECO" NO. P87	THRESHOLD "CECO" NO. 4241 (ALUM) OR EQUAL	LOCK	COMMENTS	
			HAND & SWING	TYPE	THICKNESS	MAT'L	TYPE	DEPTH						GAUGE
D1	1	2'-6 x 7'-0	RHR	1	1 3/4"	ALUMINUM	A	4 3/4"	16 GA.	ALUMINUM	NA	YES	C	
D2	1	6'-0 x 8'-6	RHRA	2	1 3/4"	ALUMINUM	B	4 3/4"	16 GA.	ALUMINUM	NA	YES	C	

- NOTES FOR DOOR SCHEDULE**
1. ALL DOORS, HARDWARE & ASSOCIATED ITEMS REFER TO EQUIPMENT AS MANUFACTURED BY "CECO" U.N.
 2. ALL HARDWARE FINISH SHALL BE US26 DULL CHROME.
 3. PROVIDE 3 KEYS FOR EACH LOCK.
 4. C = CYLINDRICAL LOCK.



WALL & FLOOR FINISH SCHEDULE			
SURFACE	COATING	COLOR	REMARKS
C.M.U.	PAINT SYSTEM	YELLOW	COLOR TO MATCH GLAZED YELLOW BRICKS SEE SPEC. SECTION 00099
BRICK	NOT REQUIRED		
GYPSON BOARD	PAINT SYSTEM	YELLOW	COLOR TO MATCH GLAZED YELLOW BRICKS SEE SPEC. SECTION 00099
CONCRETE	"PHILLYCLAD"		SEE SPEC. SECTION 09900

- NOTES:**
1. WORK THIS DRAWING WITH DWG. 916-AE-006.
 2. APPLY CAULKING TO ALL VERTICAL 2" PANEL JOINTS.

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

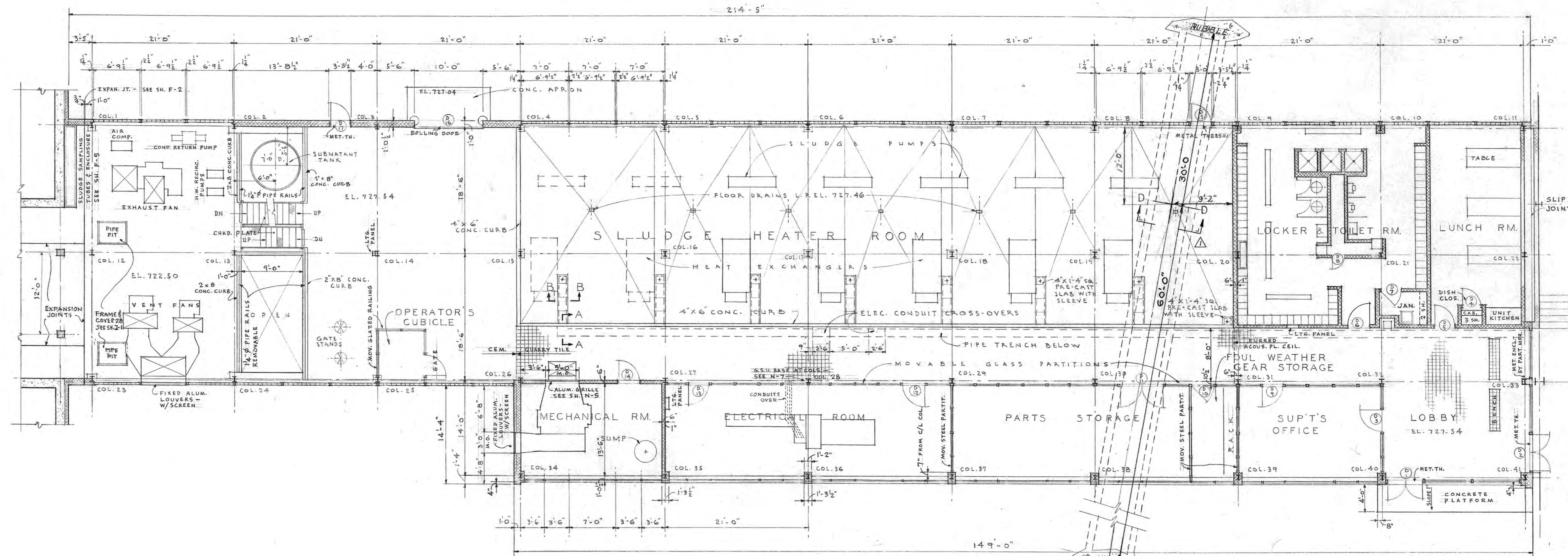
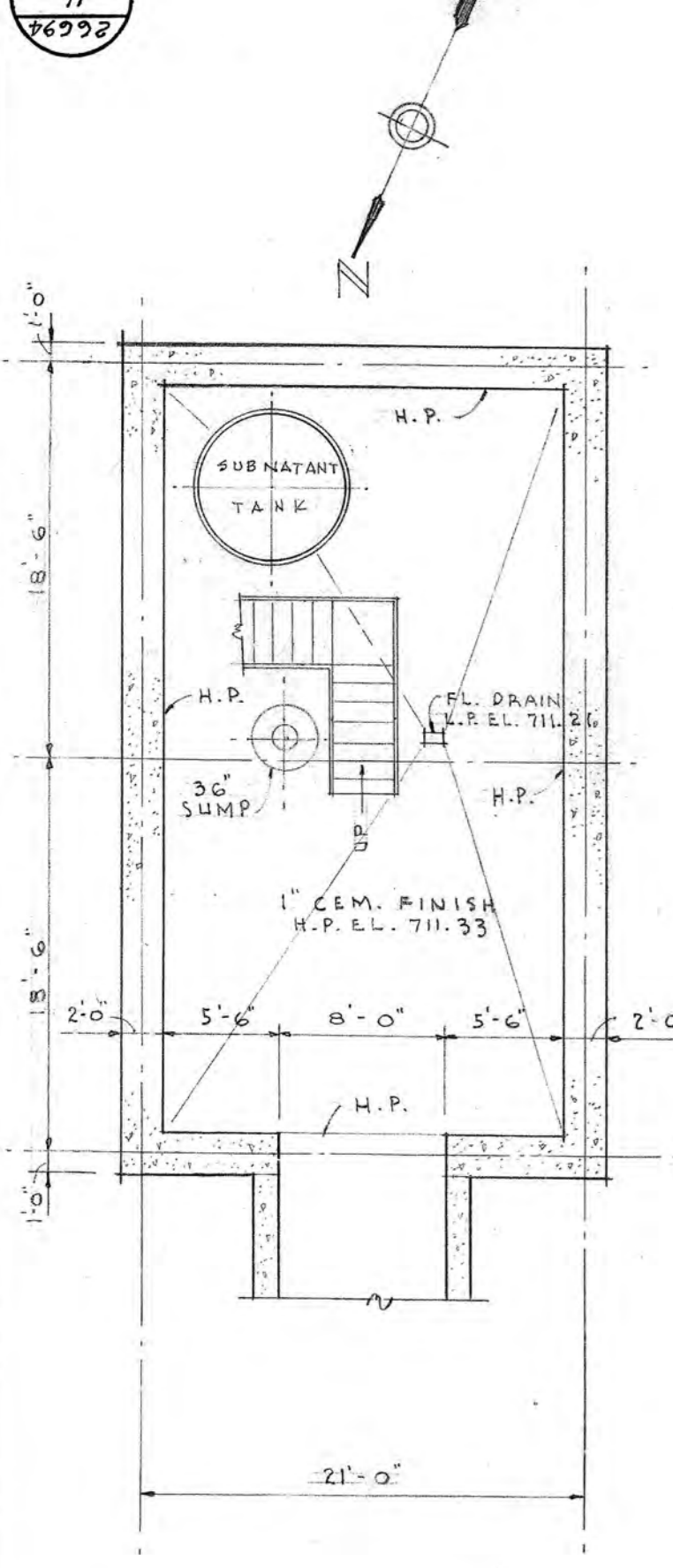
POWER GENERATION BUILDING
ARCHITECTURAL
EMERGENCY GENERATOR ENCLOSURE
SECTIONS

DRAWN BY LS
CHECKED BY [Signature]
EXAMINED BY [Signature]
DATE PLOTTED 27-JAN-1994

IGDS# /usr/nms/dgn/916ae007.dgn
REV. 0
DESCRIPTION RELEASED WITH CONTRACT 916W-1 ADDENDUM No. 1
DATE 1-94
APP. [Signature]
APPROVED [Signature]
DATE 2/7/94
DATE 2/2/94

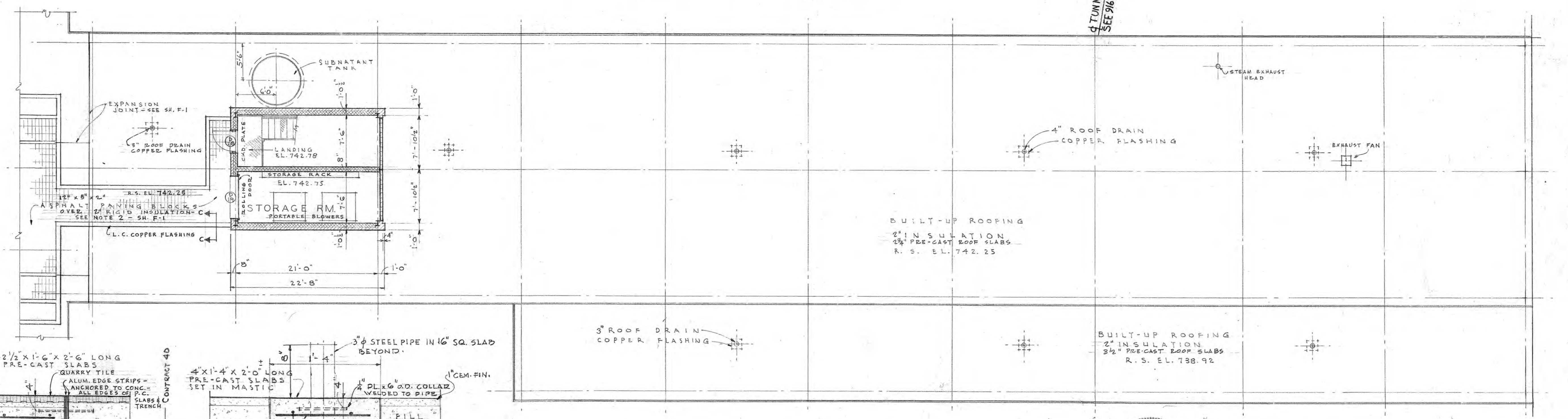
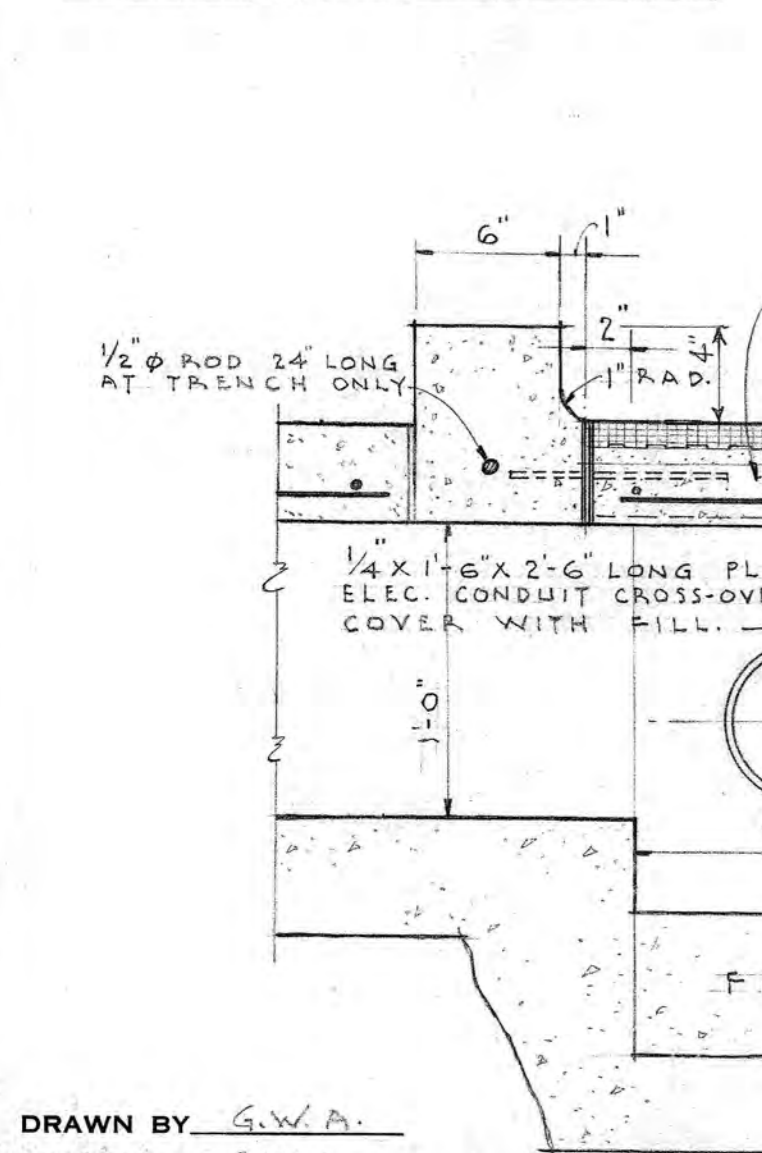
3561
H
76992

BASEMENT PLAN



FLOOR PLAN D-4 OCCUPANCY

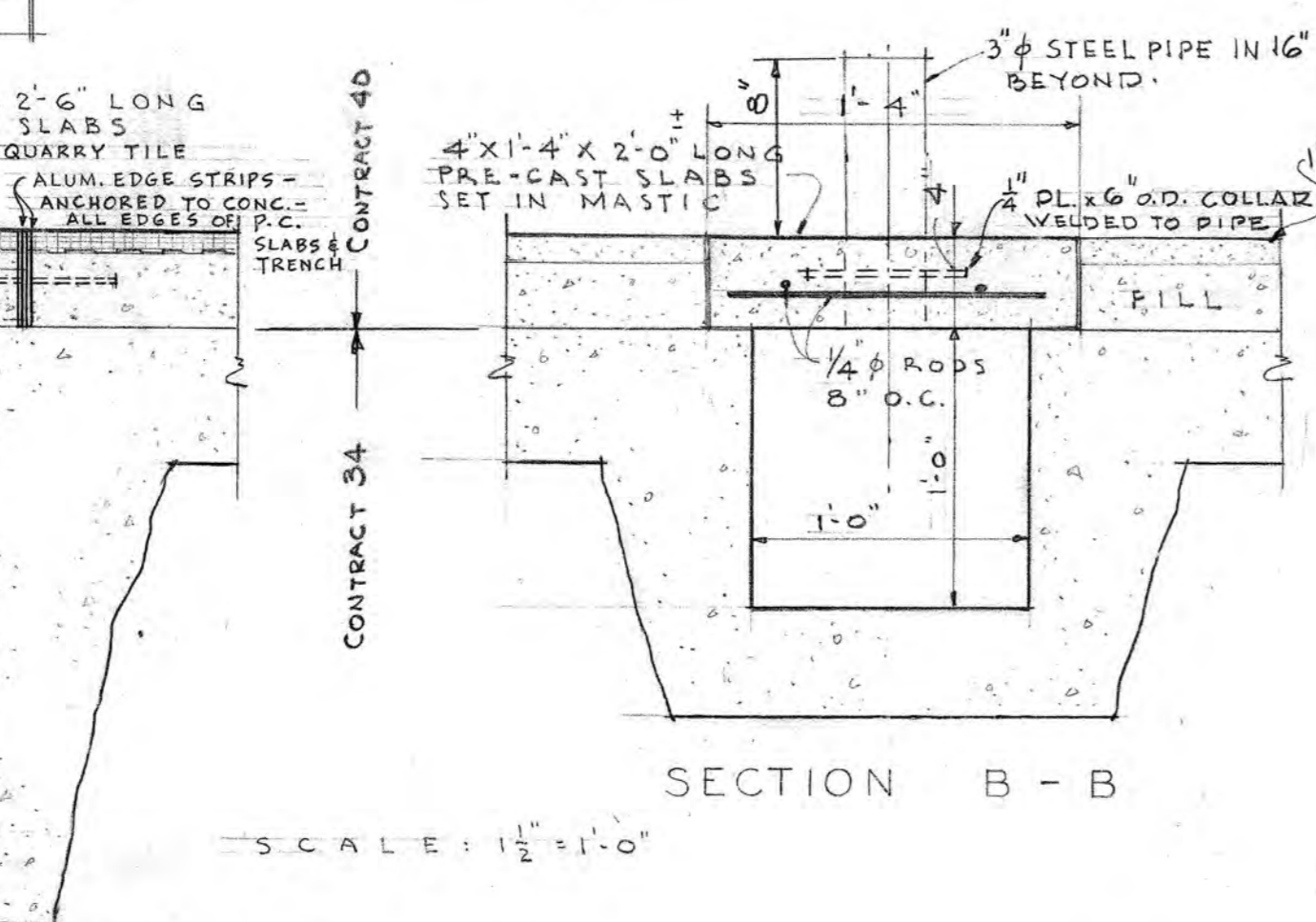
PENT-HOUSE ROOF PLAN



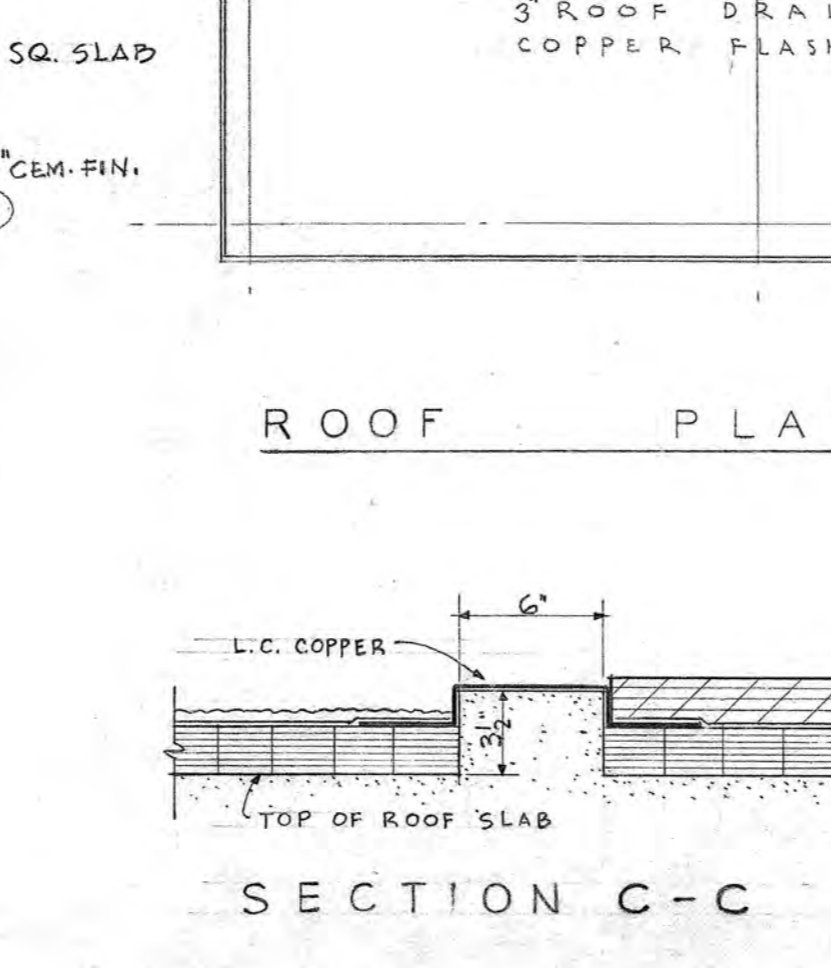
ROOF PLAN

DRAWN BY G.W.A.
TRACED BY G.W.A.
CHECKED BY ULL

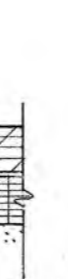
SECTION A-A



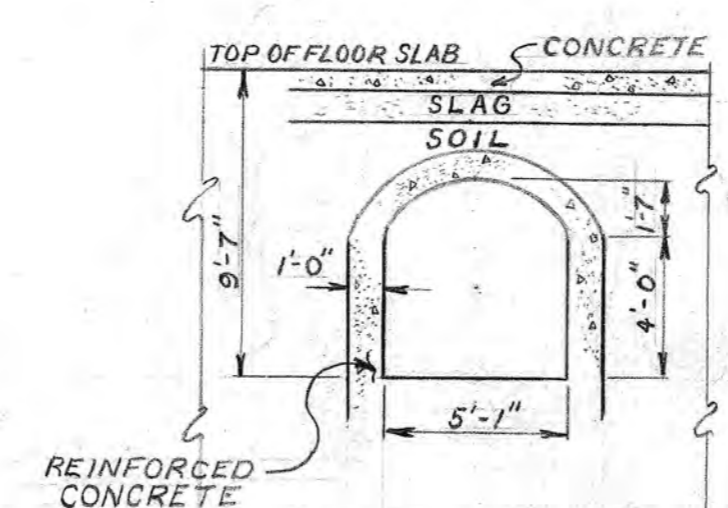
SECTION B-B



SECTION C-C

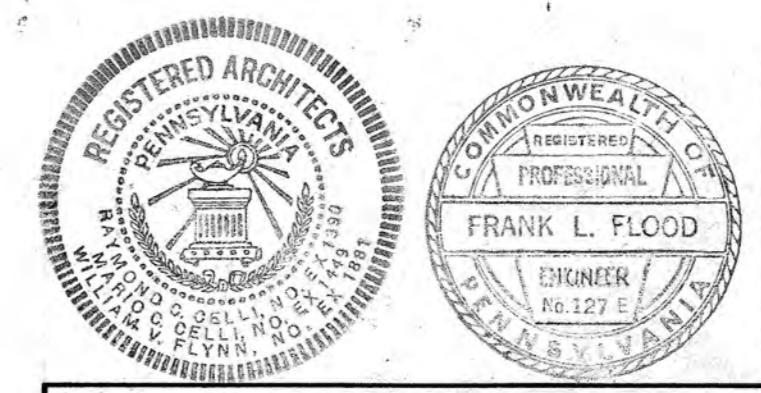


SECTION D-D



DIVISION OF CONTRACTS NOT FULLY INDICATED ON THIS DRAWING

REV.	DESCRIPTION	DATE
1	ADDED BELOW-FOUNDATION TUNNEL	11-35

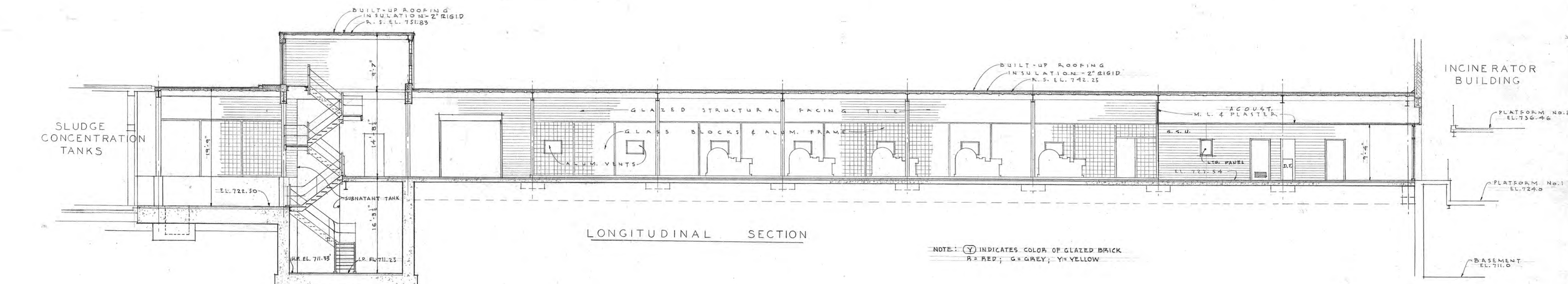
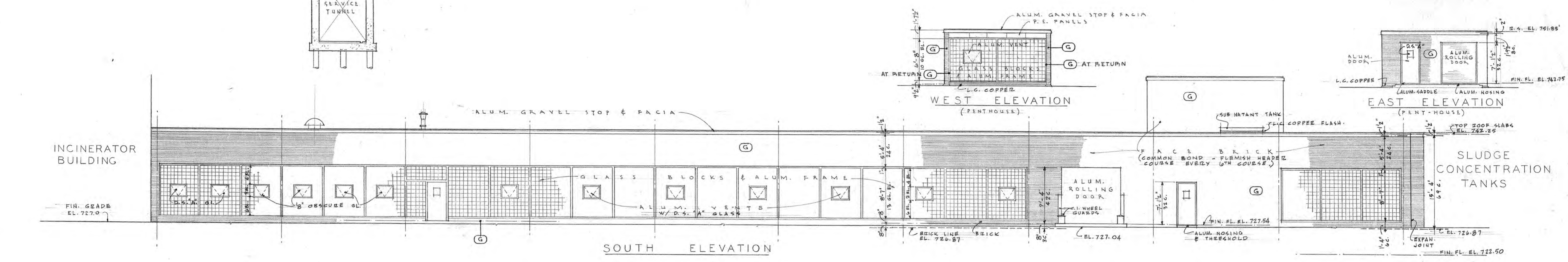
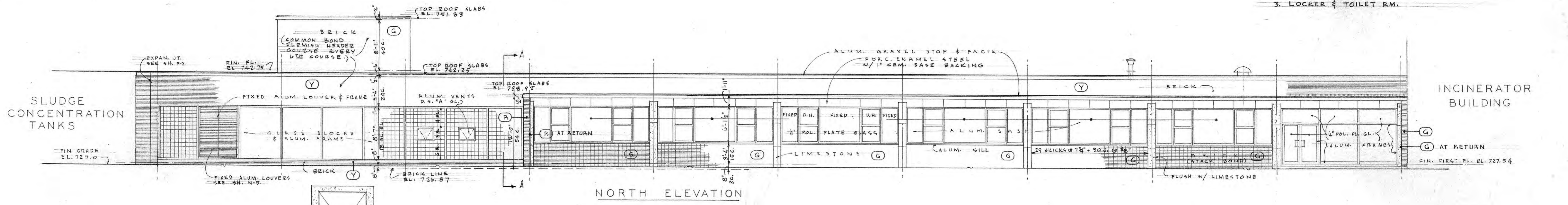


APPROVED
FOR METCALF & EDDY, ENGINEERS
Frank L. Flood 5/1/53
REG. PROF. ENGR. PA. NO. 127-E DATE
FOR CELLI-FLYNN, CONSULTING ARCHITECTS
Wm C. Celli 9/2/53
REG. ARCH. PA. NO. 14 4 9 DATE

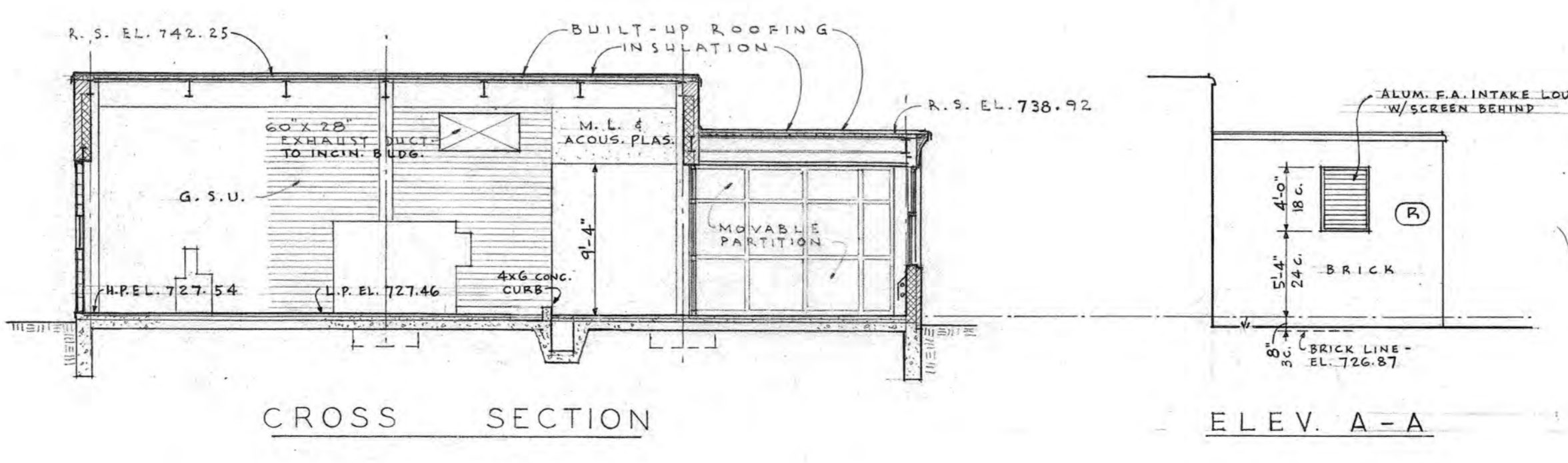
ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA
PITTSBURGH SEWAGE TREATMENT PLANT
SLUDGE HEATER BUILDING
ARCHITECTURAL
PLANS
SCALE: 1/8" = 1' - 0"
1953
METCALF & EDDY
ENGINEERS-BOSTON, MASS.
CELLI-FLYNN CONSULTING ARCHITECTS, MCKEESPORT, PA.

15861
H
56992

INSECT SCREENS
 SHALL BE REQUIRED FOR ALL WINDOWS IN THE FOLLOWING AREAS:
 1. SUPT'S. OFFICE
 2. LUNCH ROOM
 3. LOCKER & TOILET RM.



NOTE: Y INDICATES COLOR OF GLAZED BRICK
 R = RED; G = GREY; Y = YELLOW



DRAWN BY G.W.A.
 TRACED BY G.W.A.
 CHECKED BY CCE

DIVISION OF CONTRACTS NOT FULLY INDICATED ON THIS DRAWING

REGISTERED ARCHITECTS
 COMMONWEALTH OF PENNSYLVANIA
 REGISTERED PROFESSIONAL ENGINEER
 FRANK L. FLOOD
 ENGINEER No. 127-C
 PENNSYLVANIA

APPROVED
 FOR METCALF & EDDY, ENGINEERS
 Frank L. Flood 5/8/53
 REG. PROF. ENGR. PA. NO. 127-E DATE
 FOR CELLI-FLYNN, CONSULTING ARCHITECTS
 M. C. Celli 9/16/53
 REG. ARCH. PA. NO. 1449 DATE

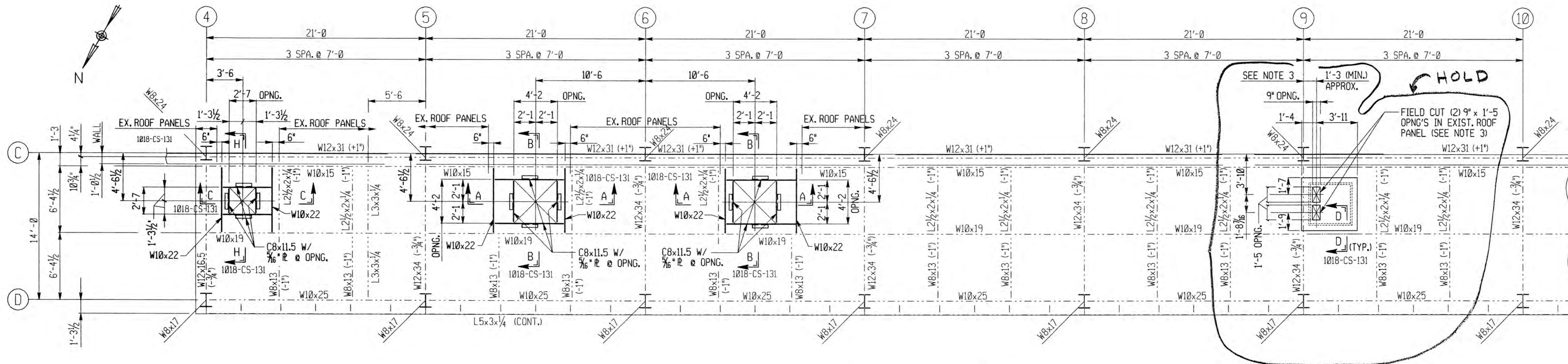
ALLEGHENY COUNTY SANITARY AUTHORITY
 PITTSBURGH, PENNSYLVANIA

PITTSBURGH SEWAGE TREATMENT PLANT

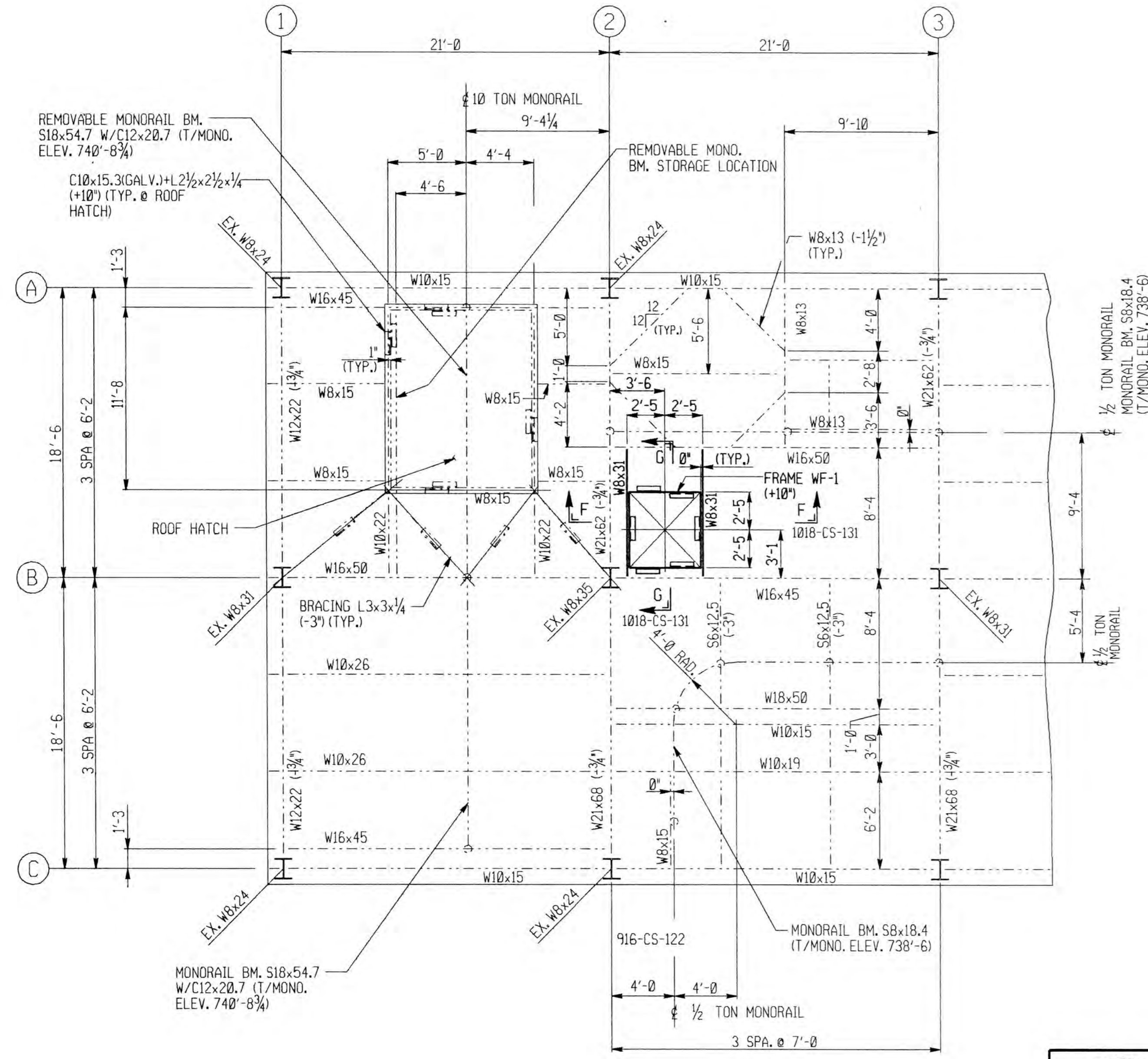
SLUDGE HEATER BUILDING
 ARCHITECTURAL
 ELEVATIONS AND SECTIONS

SCALE: 1/8" = 1' - 0"
 1953

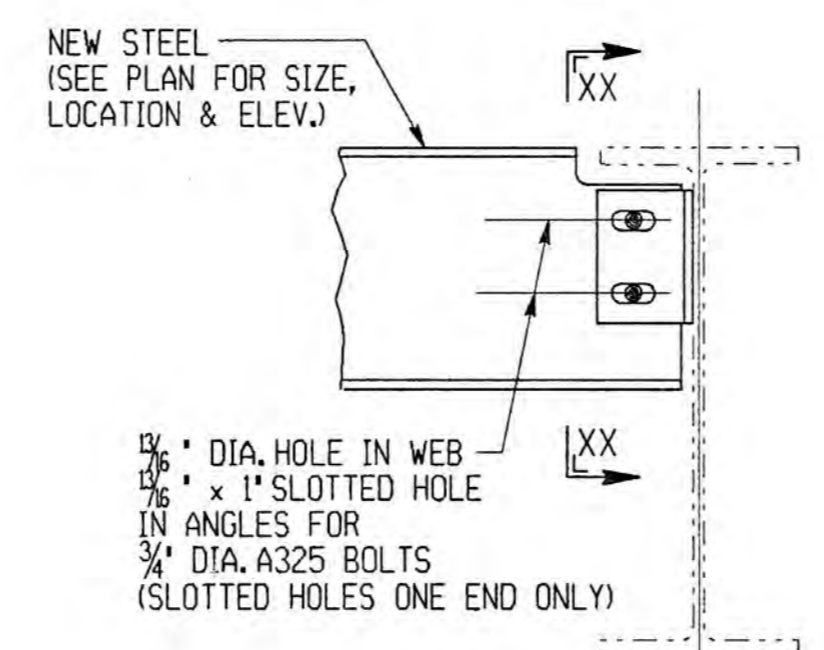
METCALF & EDDY
 ENGINEERS-BOSTON, MASS.
 CELLI-FLYNN CONSULTING ARCHITECTS, MCKEESPORT, PA.



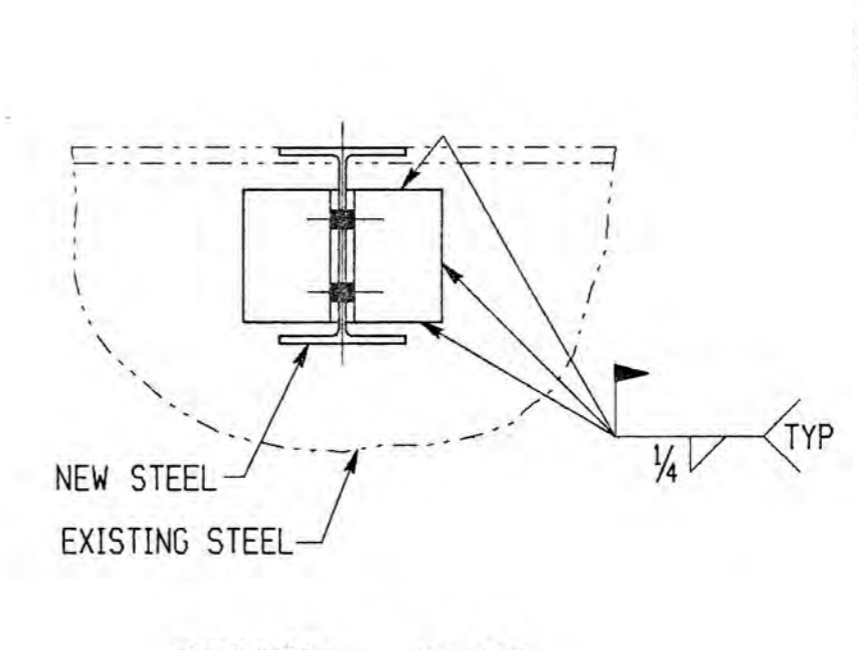
PARTIAL LOW ROOF PLAN
 (LOW ROOF - T/STEEL ELEV. 738'-8 1/4" U.N.)



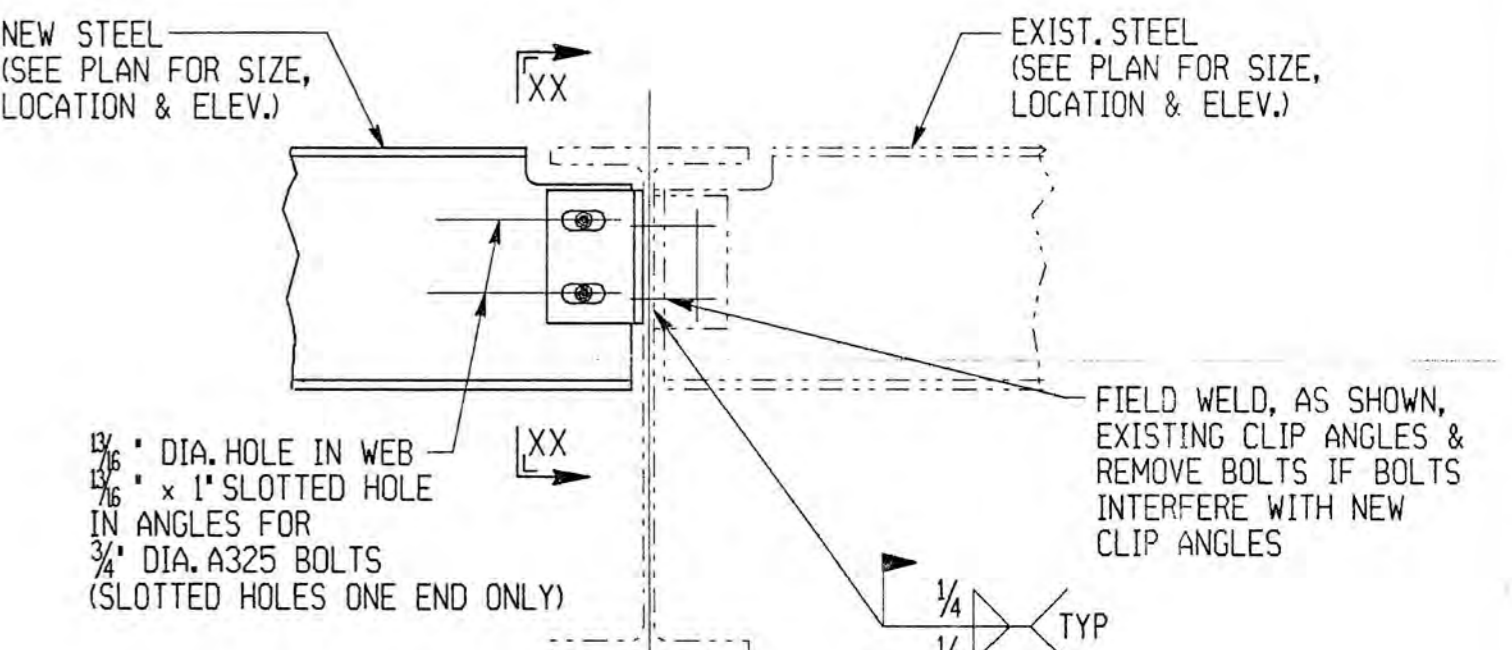
PARTIAL MAIN ROOF PLAN
 (HIGH ROOF - T/STEEL ELEV. 742'-1" U.N.)



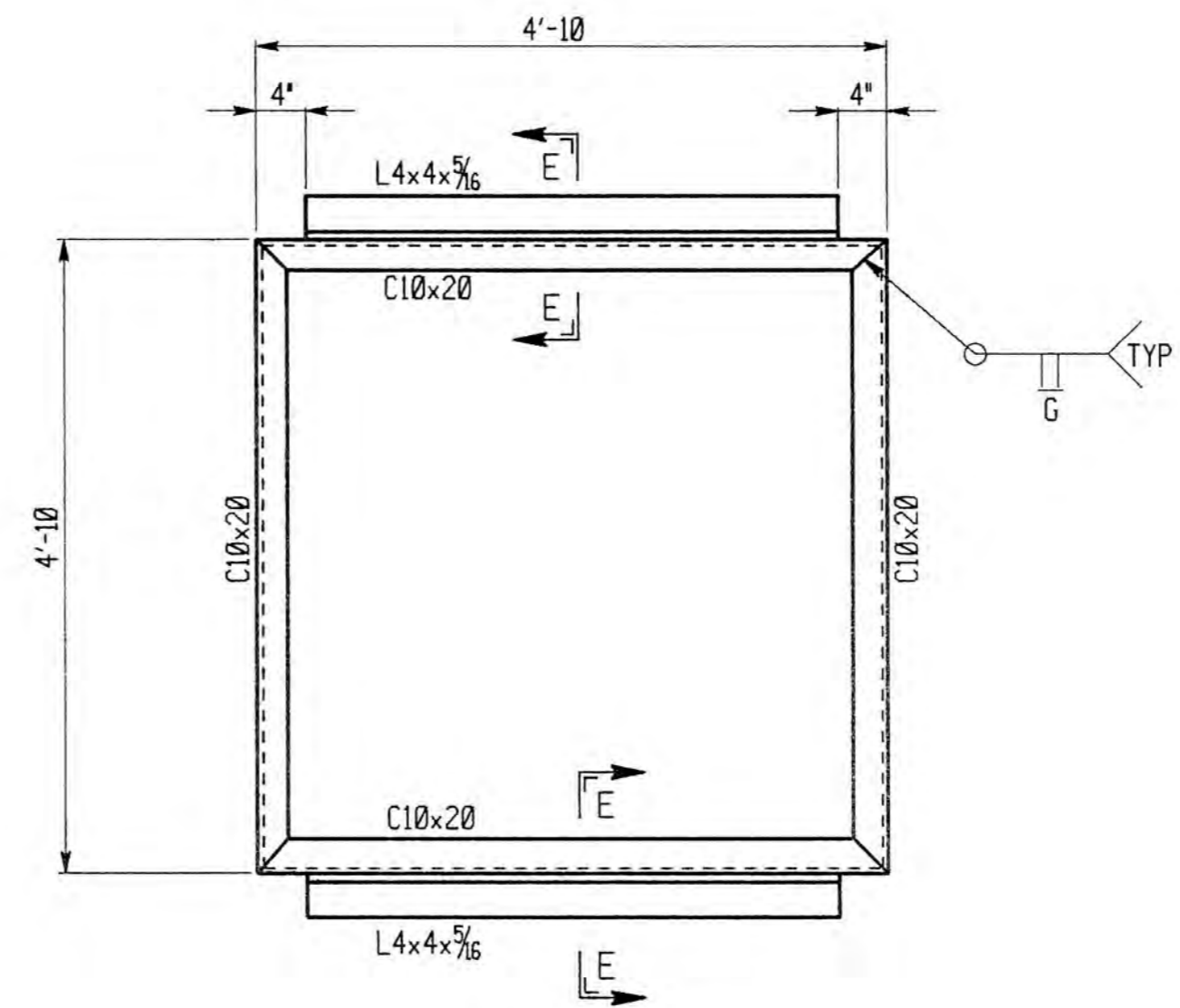
TYPICAL CONNECTION DETAIL
 (NEW STEEL TO EXISTING STEEL)
 SCALE: 1 1/2" = 1'-0"



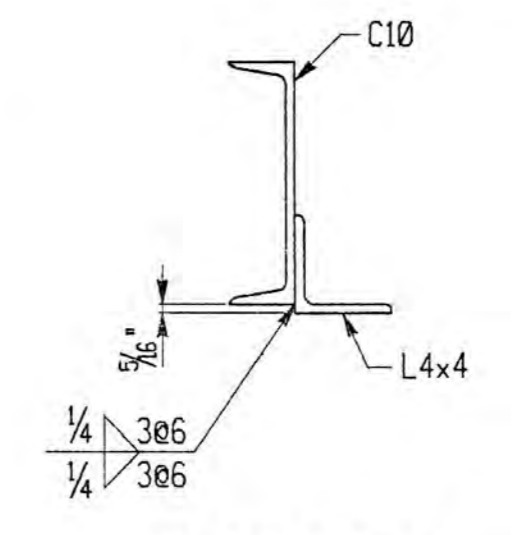
SECTION XX-XX
 SCALE: 1 1/2" = 1'-0"



TYPICAL CONNECTION DETAIL
 (NEW STEEL TO EXISTING STEEL W/ INTERFERENCE)
 SCALE: 1 1/2" = 1'-0"



PLAN - FRAME WF-1
 SCALE: 3/4" = 1'-0"



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

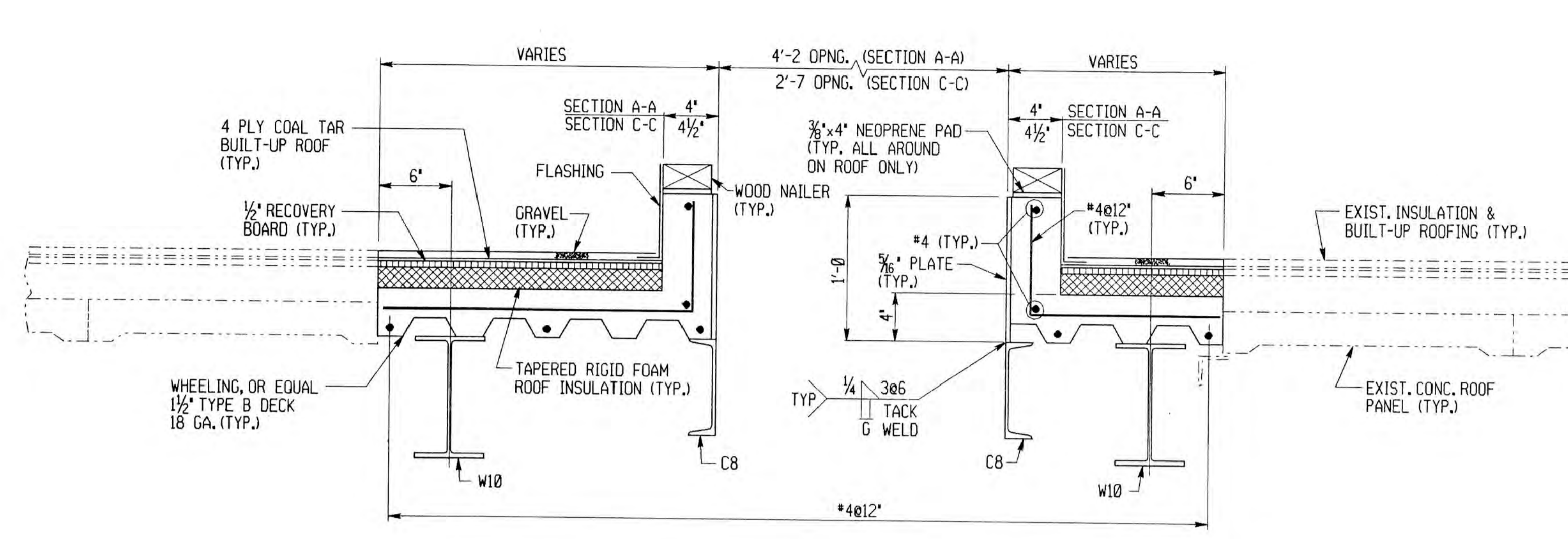
- NOTES:**
- FOR GENERAL NOTES, SEE DWG. 1018-GN-014.
 - WORK THIS DRAWING WITH DWG. 1018-CS-131
 - FIELD TO LOCATE CENTERLINE OF ROOF PANEL NEAREST TO 1'-3" (MIN.) WEST OF COLUMN LINE 9 AND USE AS CENTERLINE FOR 9' x 1'-5" OPNG'S.

ALLEGHENY COUNTY SANITARY AUTHORITY
 PITTSBURGH, PENNSYLVANIA

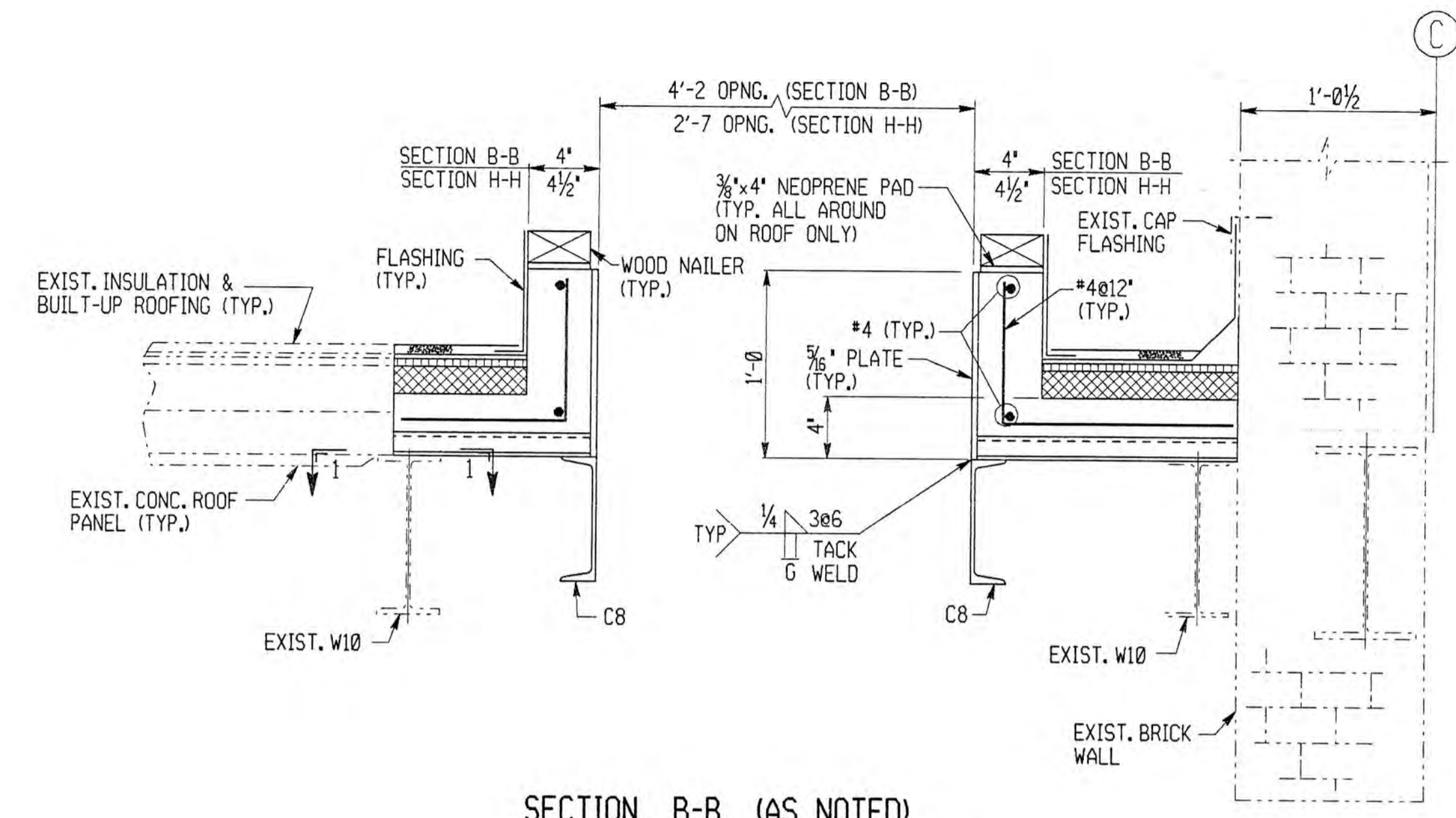
POWER GENERATION BUILDING
 STRUCTURAL STEEL MODIFICATIONS
 ROOF - LINES 1 TO 2 & 4 TO 8
 PLANS & SECTIONS

DRAWN BY JP
 CHECKED BY Oem
 EXAMINED BY
 DATE PLOTTED 03-NOV-1993

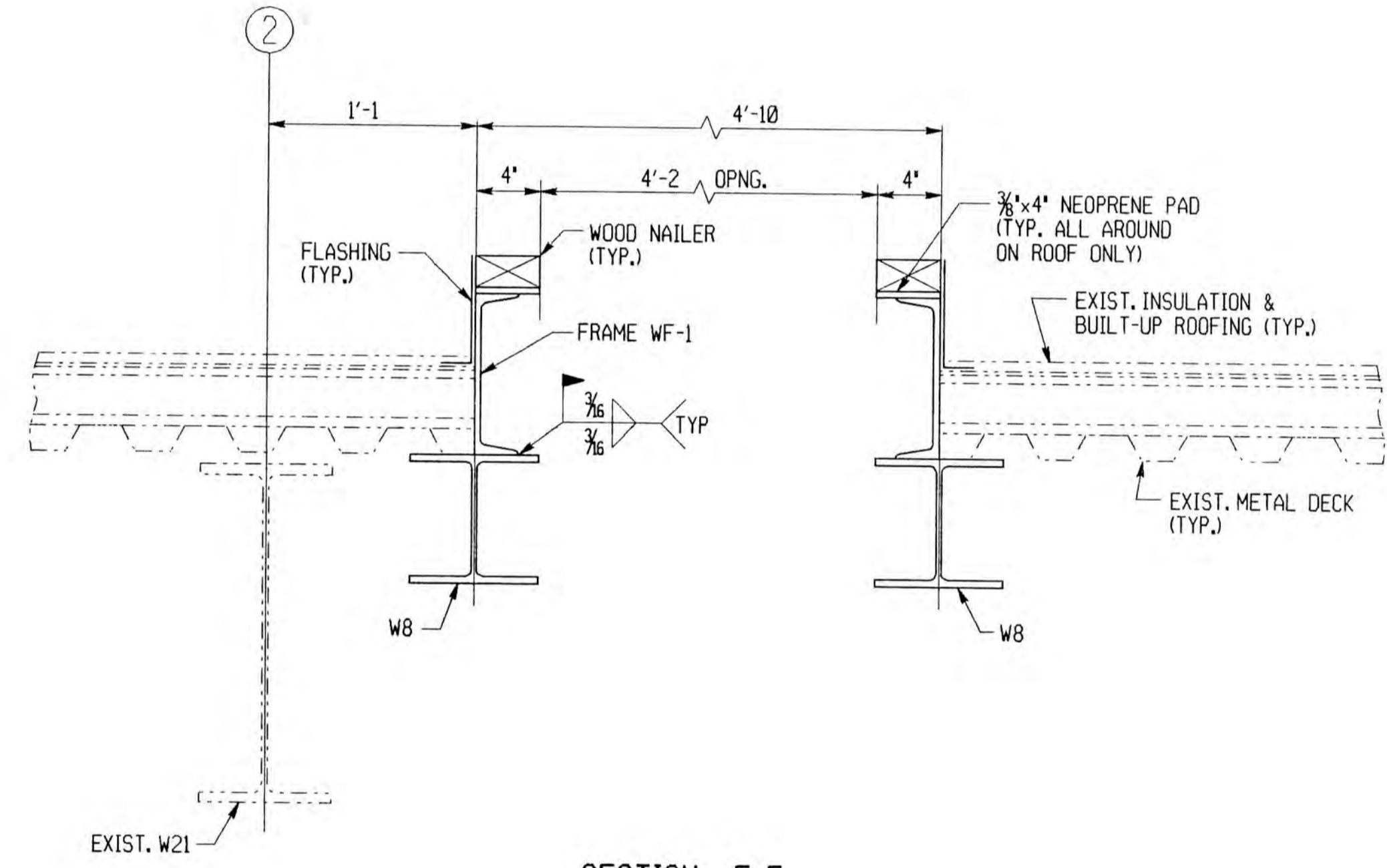
	IGDS# /usr/ezp/work/1018sl30.dgn	REV.	DESCRIPTION	DATE	APP.	APPROVED
	SE DWG.# 1018-CS-130	0	RELEASED WITH CONTRACT 1018C	11/93		<i>William C. Paul</i> EXECUTIVE DIRECTOR, PA. PE # 26064-E
		1				<i>Joseph W. Long</i> DIRECTOR OF ENGR. & CONSTR. PA. PE-19592-E
		2				



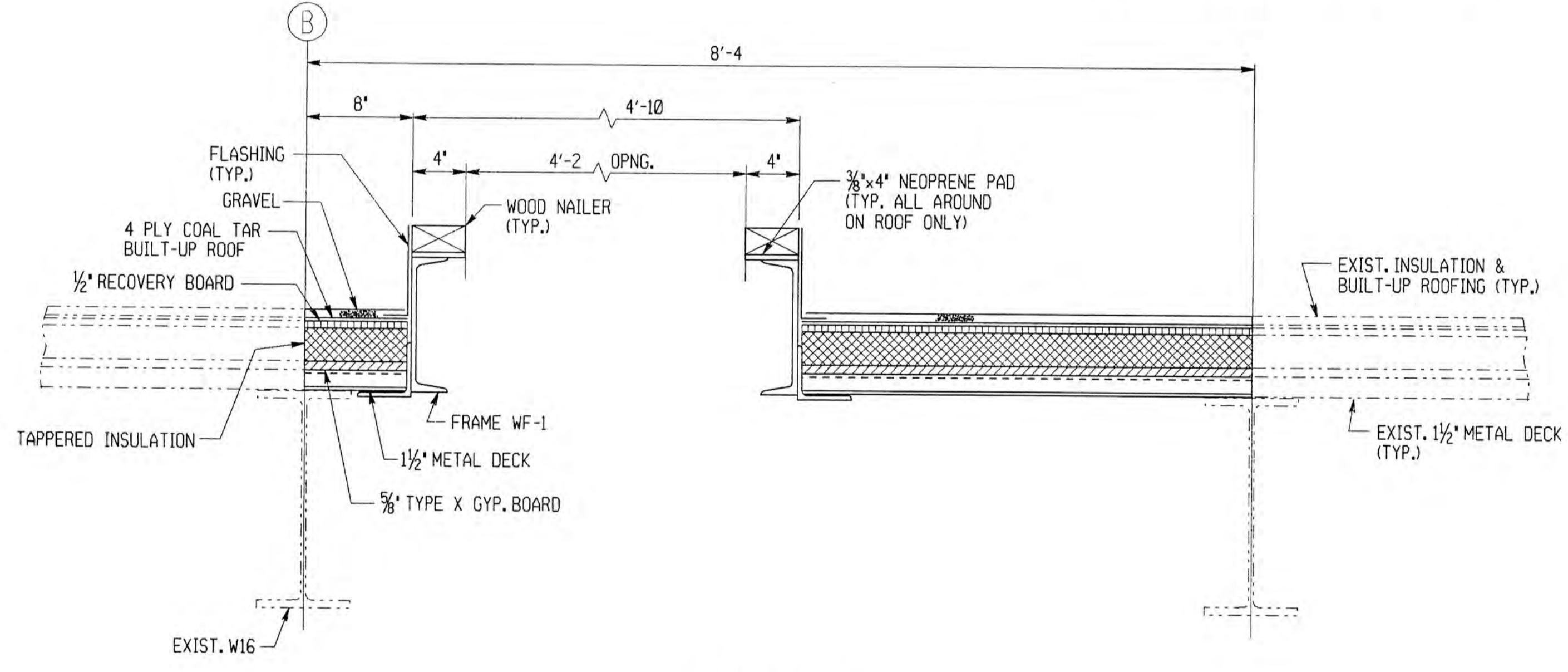
SECTION A-A (AS SHOWN & NOTED)
SECTION C-C (SIMILAR & NOTED)
 1018-CS-130



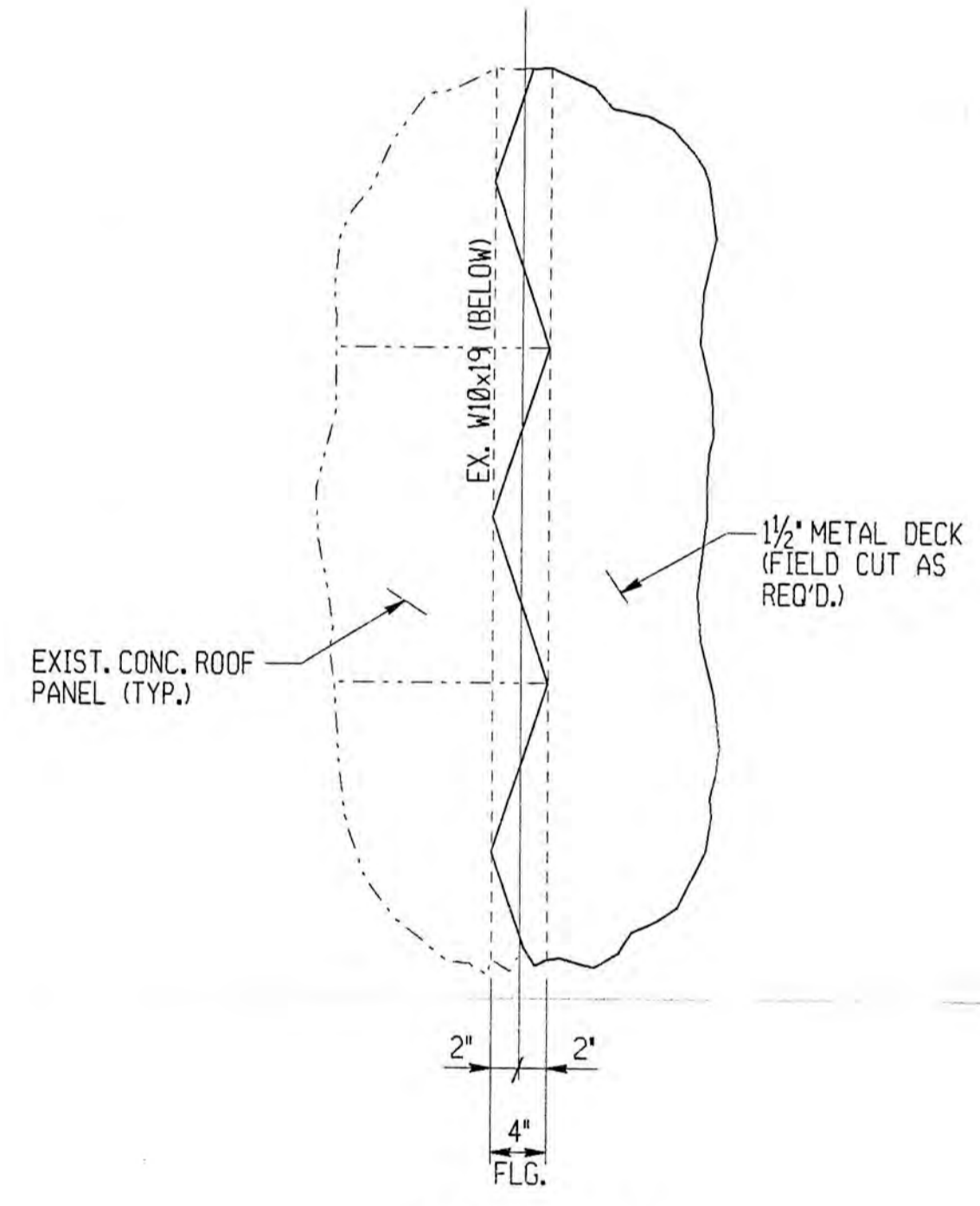
SECTION B-B (AS NOTED)
SECTION H-H (AS NOTED)



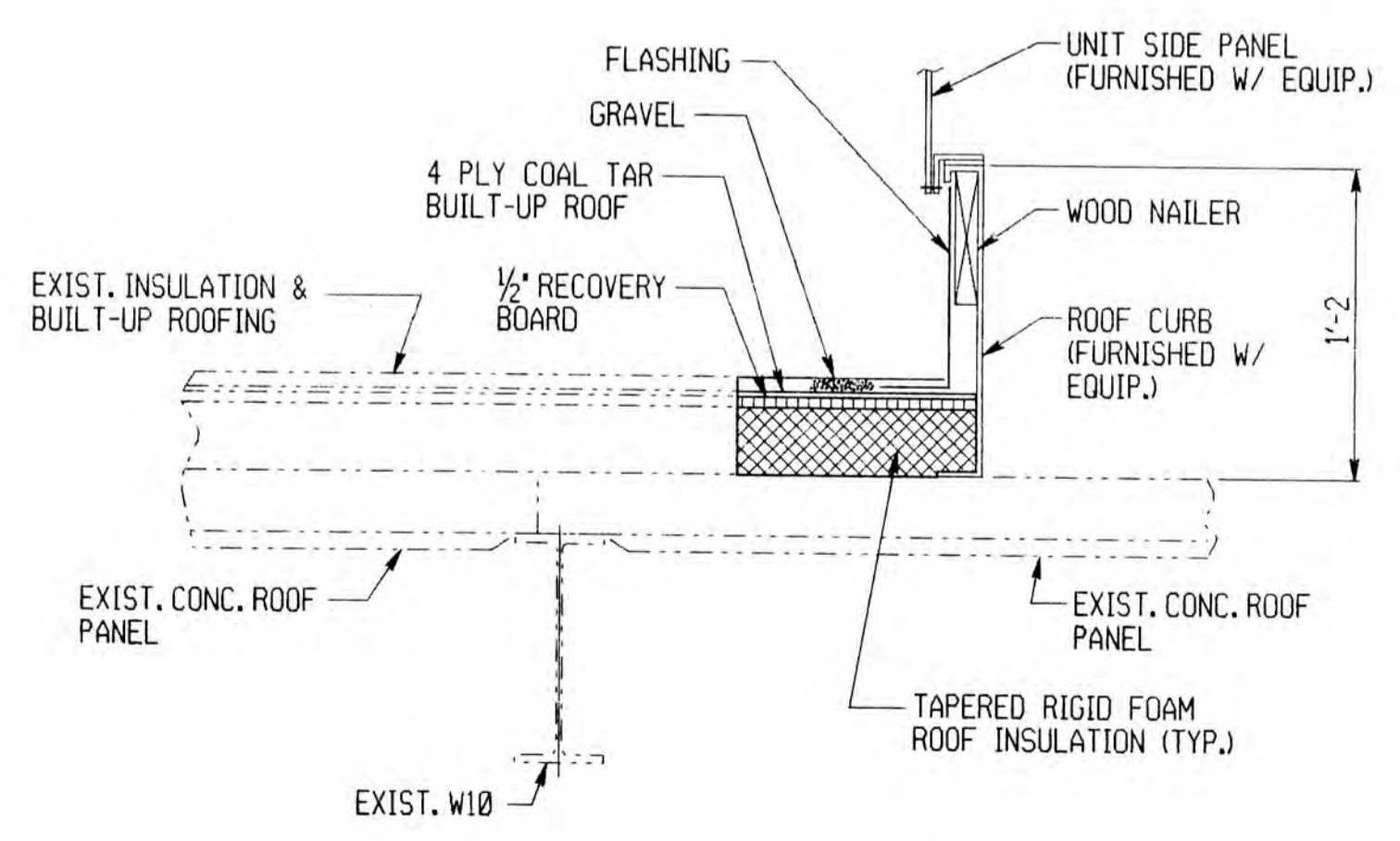
SECTION F-F
 1018-CS-130



SECTION G-G
 1018-CS-130



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



SECTION D-D
 1018-CS-130

- NOTES:**
1. FOR GENERAL NOTES, SEE DWG. 1018-GN-014.
 2. WORK THIS DRAWING WITH DWG. 1018-CS-130

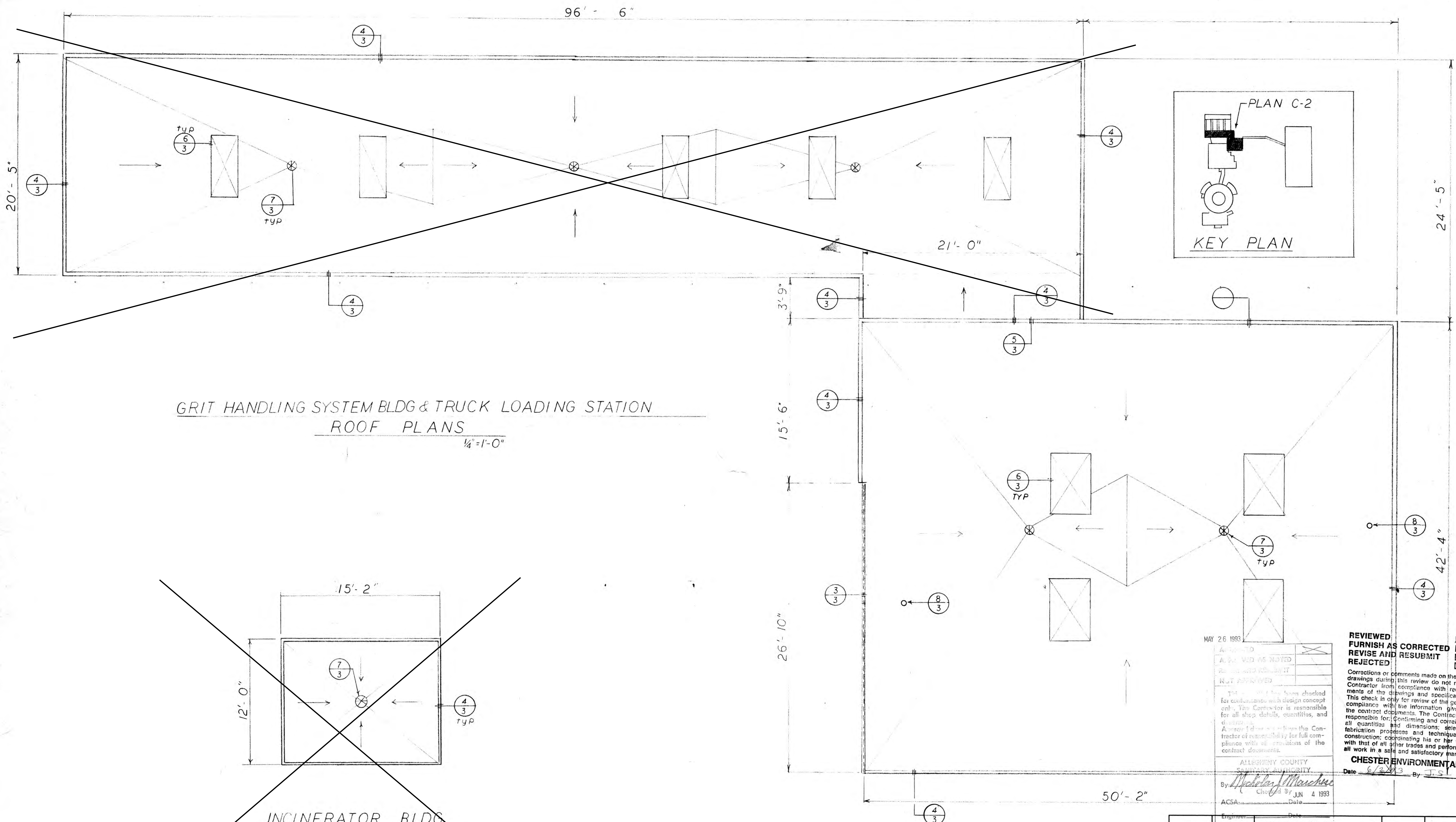
DRAWN BY JP
 CHECKED BY CEM
 EXAMINED BY
 DATE PLOTTED 03-NOV-1993



REV.	DESCRIPTION	DATE	APP.	APPROVED
0	RELEASED WITH CONTRACT 1018C	11/93		William C. Tran EXECUTIVE DIRECTOR, PA. PE-026064-E
1				Joseph W. ... DIRECTOR OF ENGR. & CONSTR. PA. PE-19592-E
2				
3				

ALLEGHENY COUNTY SANITARY AUTHORITY
 PITTSBURGH, PENNSYLVANIA

POWER GENERATION BUILDING
 STRUCTURAL STEEL MODIFICATIONS
 ROOF - LINES 1 TO 2 & 4 TO 8
 SECTIONS



GRIT HANDLING SYSTEM BLDG & TRUCK LOADING STATION
 ROOF PLANS
 1/4" = 1'-0"

~~INCINERATOR BLDG
 ROOF PLAN
 1/4" = 1'-0"~~

MAY 26 1993

APPROVED	<input checked="" type="checkbox"/>
AS NOTED	<input type="checkbox"/>
REVISIONS	<input type="checkbox"/>
NOT APPROVED	<input type="checkbox"/>

This drawing has been checked for compliance with design concept only. The Contractor is responsible for all shop details, quantities, and dimensions. A proper drawing shows the Contractor of responsibility for full compliance with all provisions of the contract documents.

ALLEGHENY COUNTY
 SANITARY AUTHORITY

By: *Michael J. Marchese*
 Checked By: JUN 4 1993
 Date: _____
 ACSA: _____ Date: _____
 Engineer: _____ Date: _____

REVIEWED
FURNISH AS CORRECTED
REVISE AND RESUBMIT
REJECTED

Corrections or comments made on the shop drawings during this review do not relieve Contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general compliance with the information given in the contract documents. The Contractor is responsible for: confirming and coordinating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.

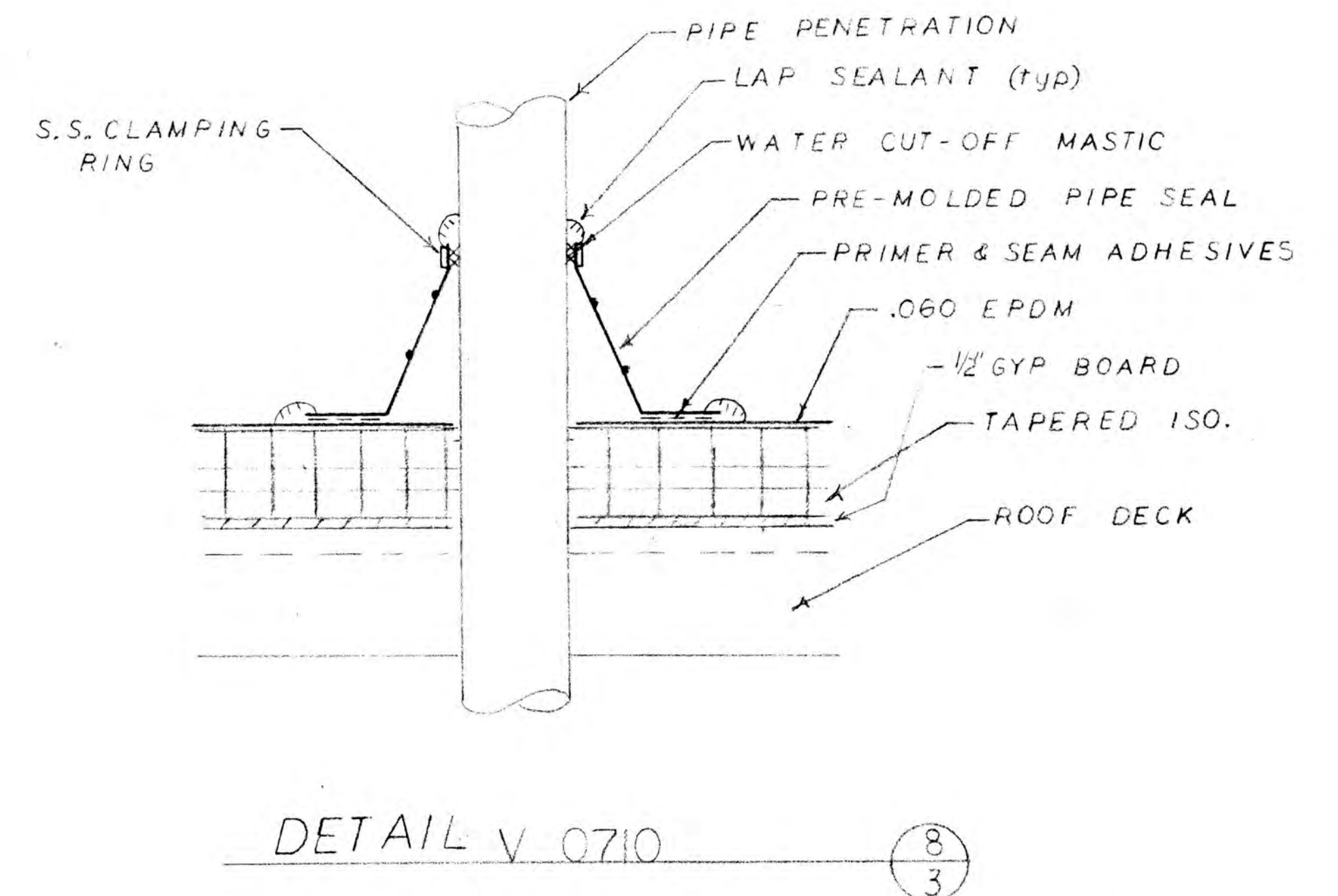
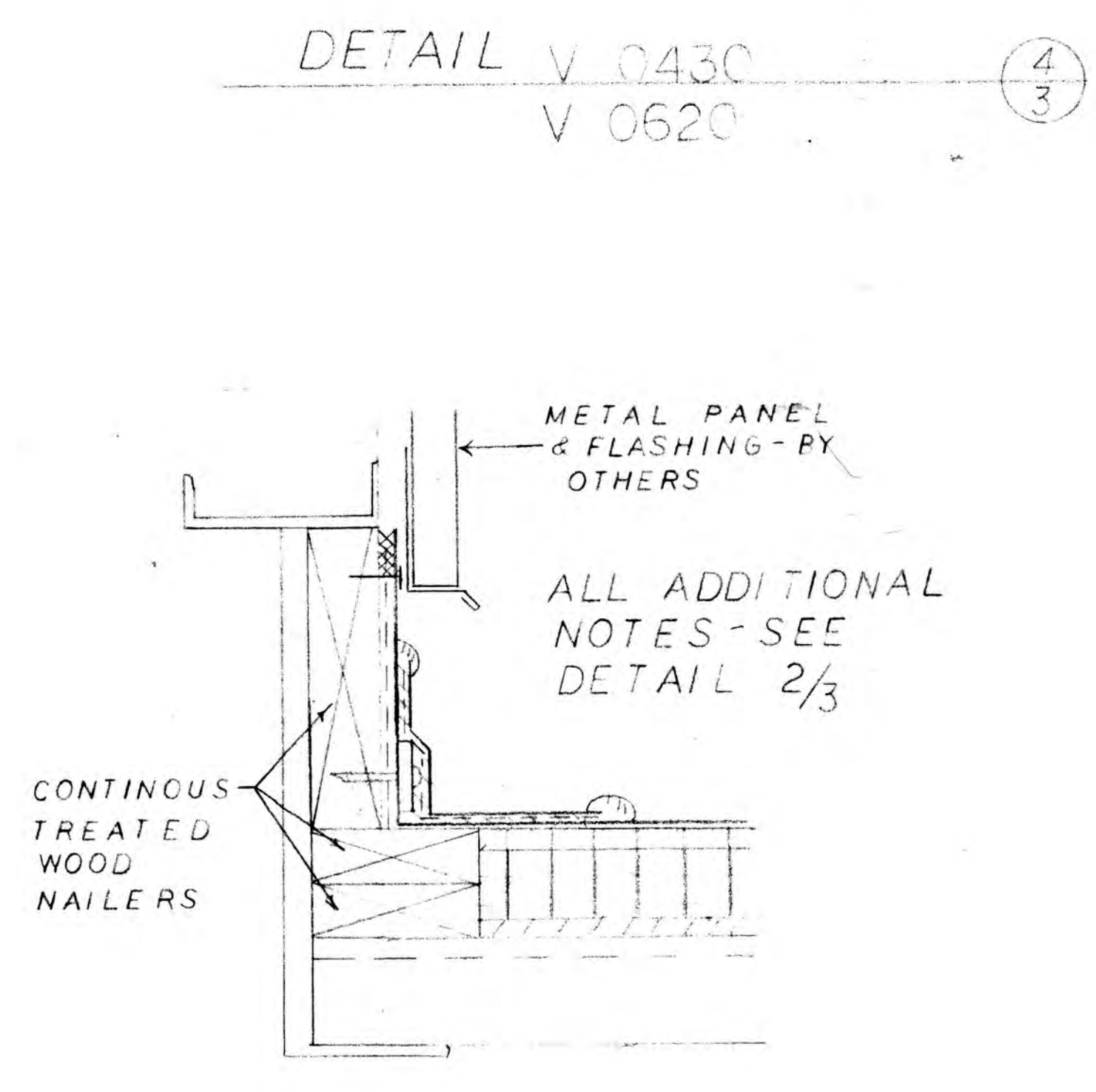
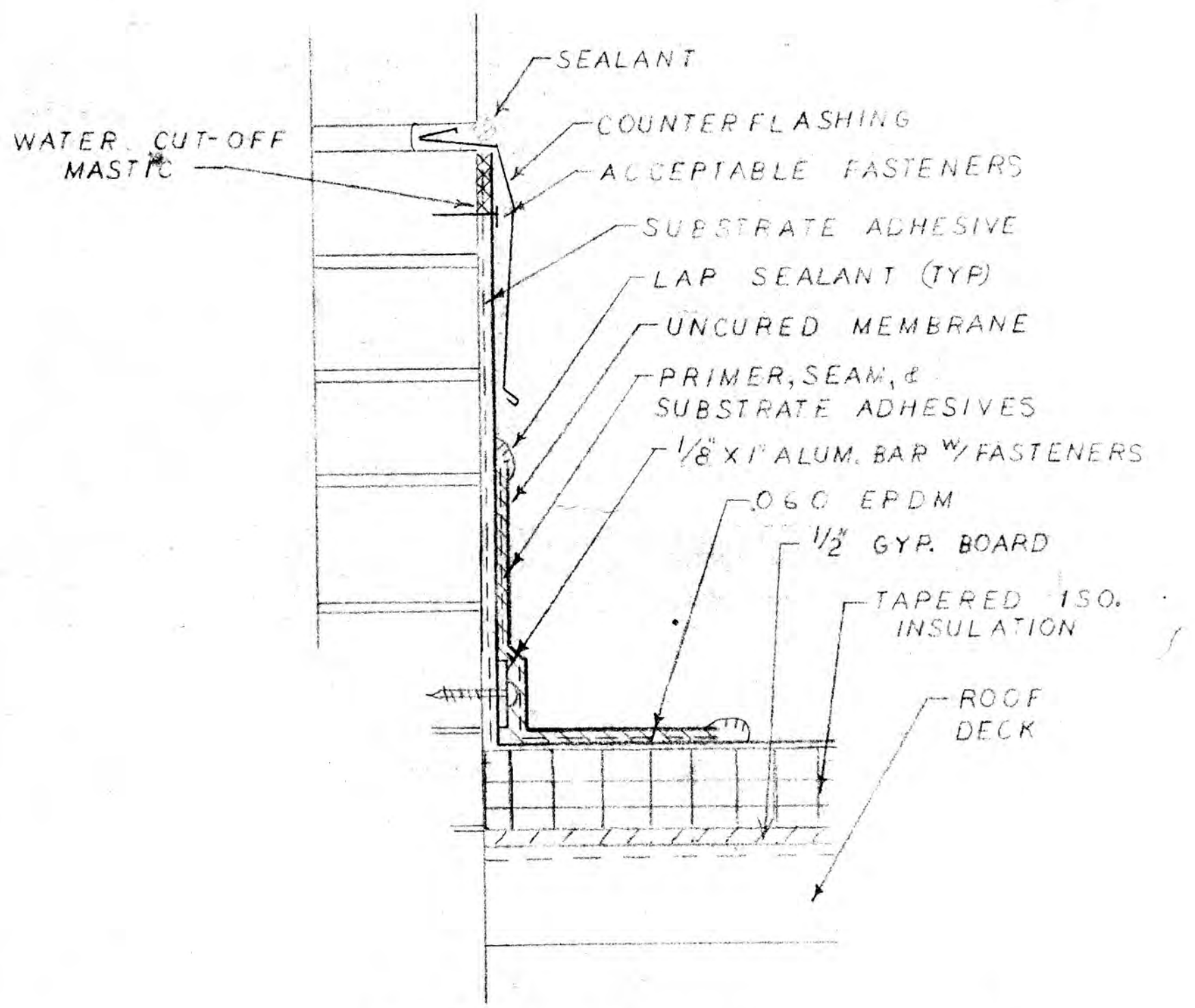
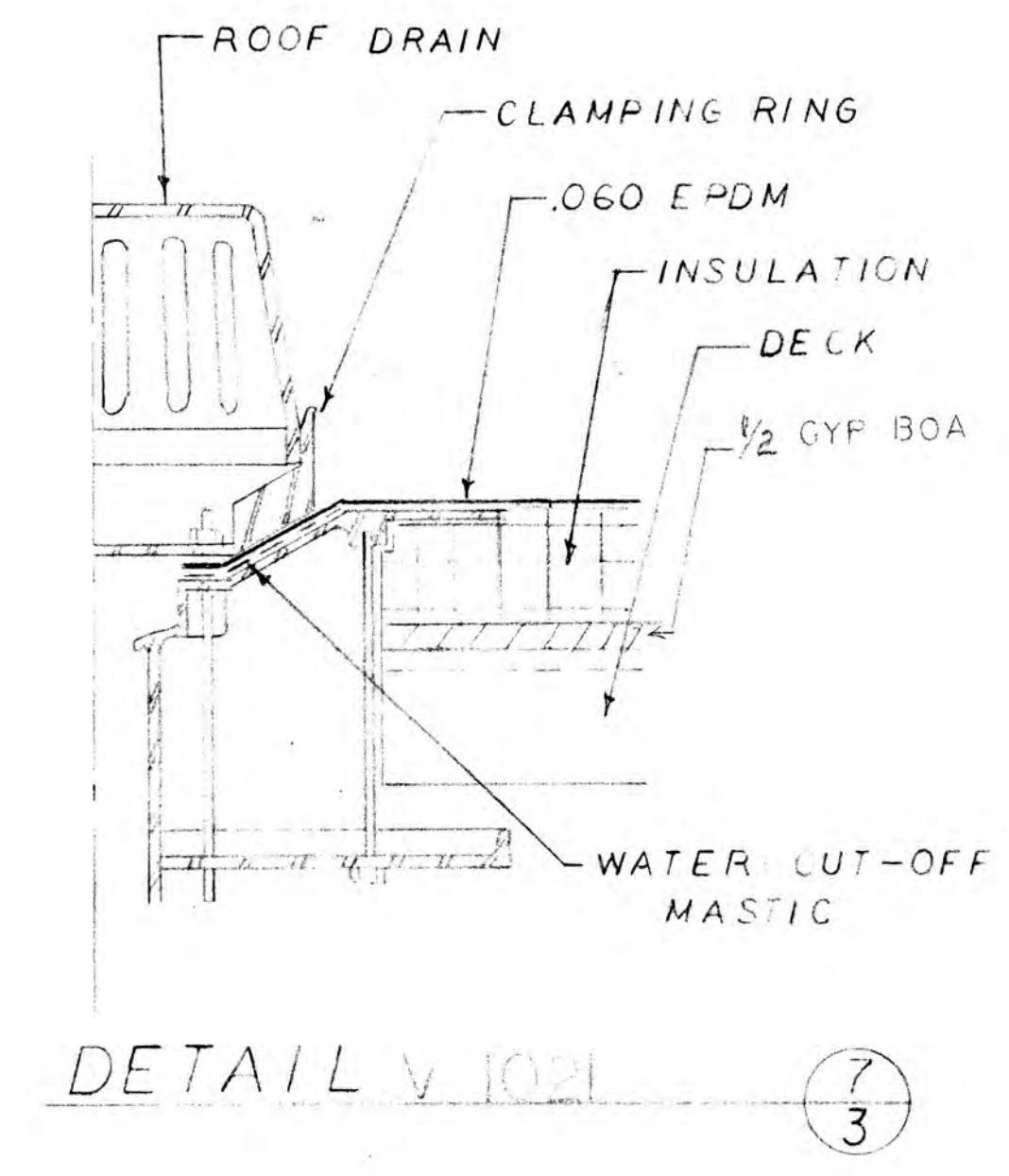
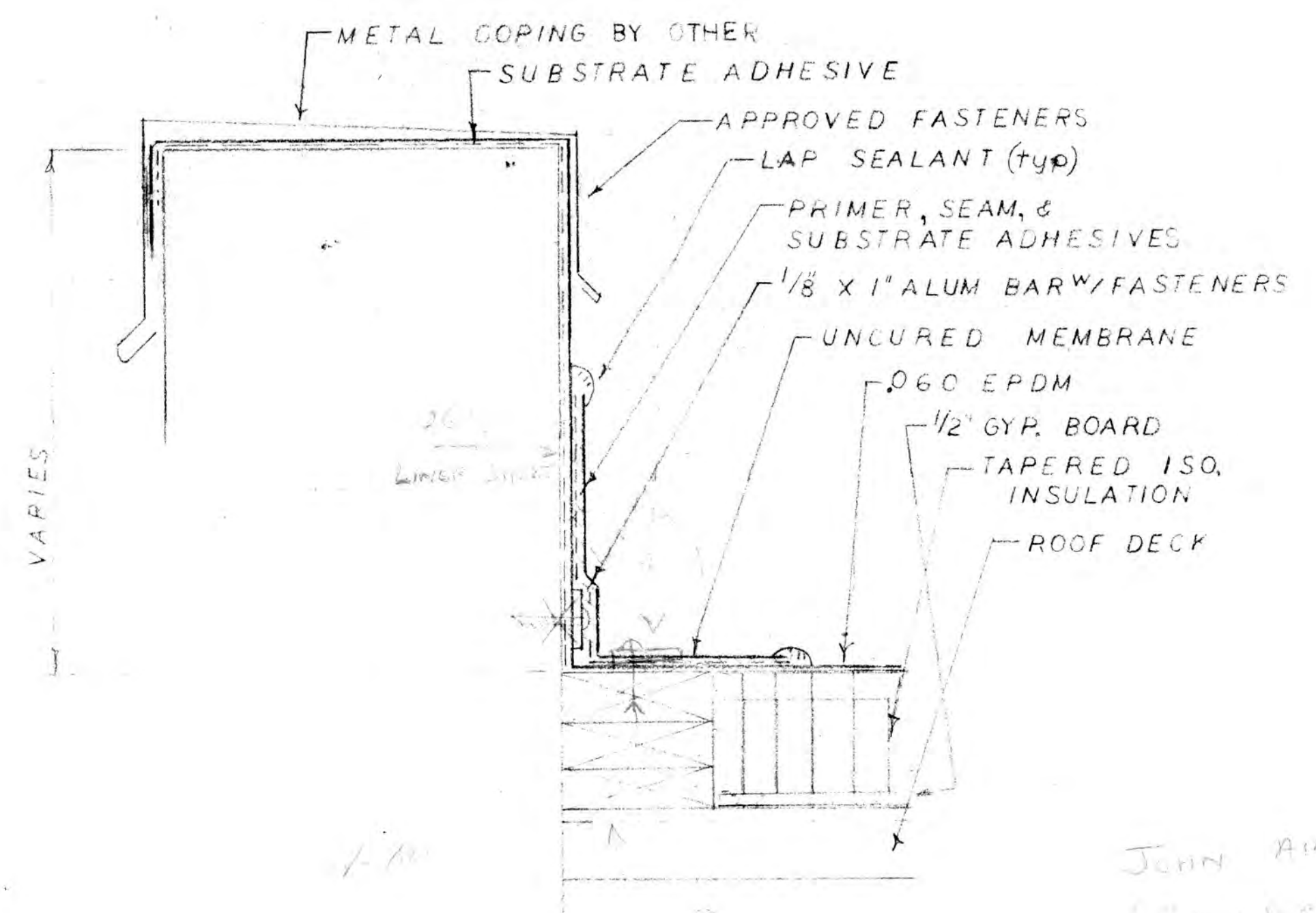
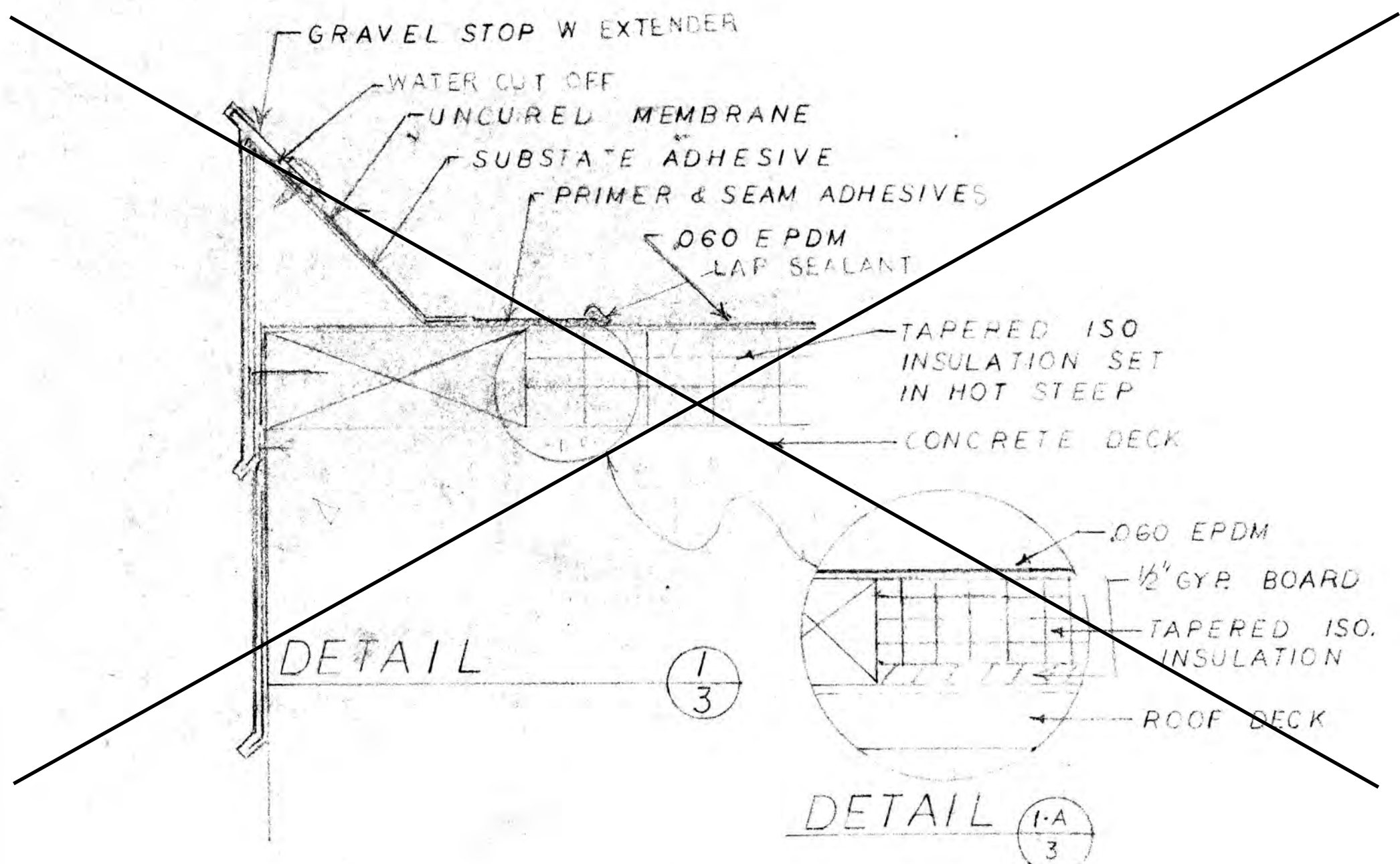
CHESTER ENVIRONMENTAL
 Date: 6/2/93 By: J.S.

NO.	DATE	SUBMITTAL	REV.	BY

NO. DATE SUBMITTAL REV. BY

CASSADY-PIERCE CO. JOB NAME: **ALLEGHENY COUNTY SANITARY AUTHORITY**
 2295 PREBLE AV.
 PGH, PA. 15233
 (412)321-8987

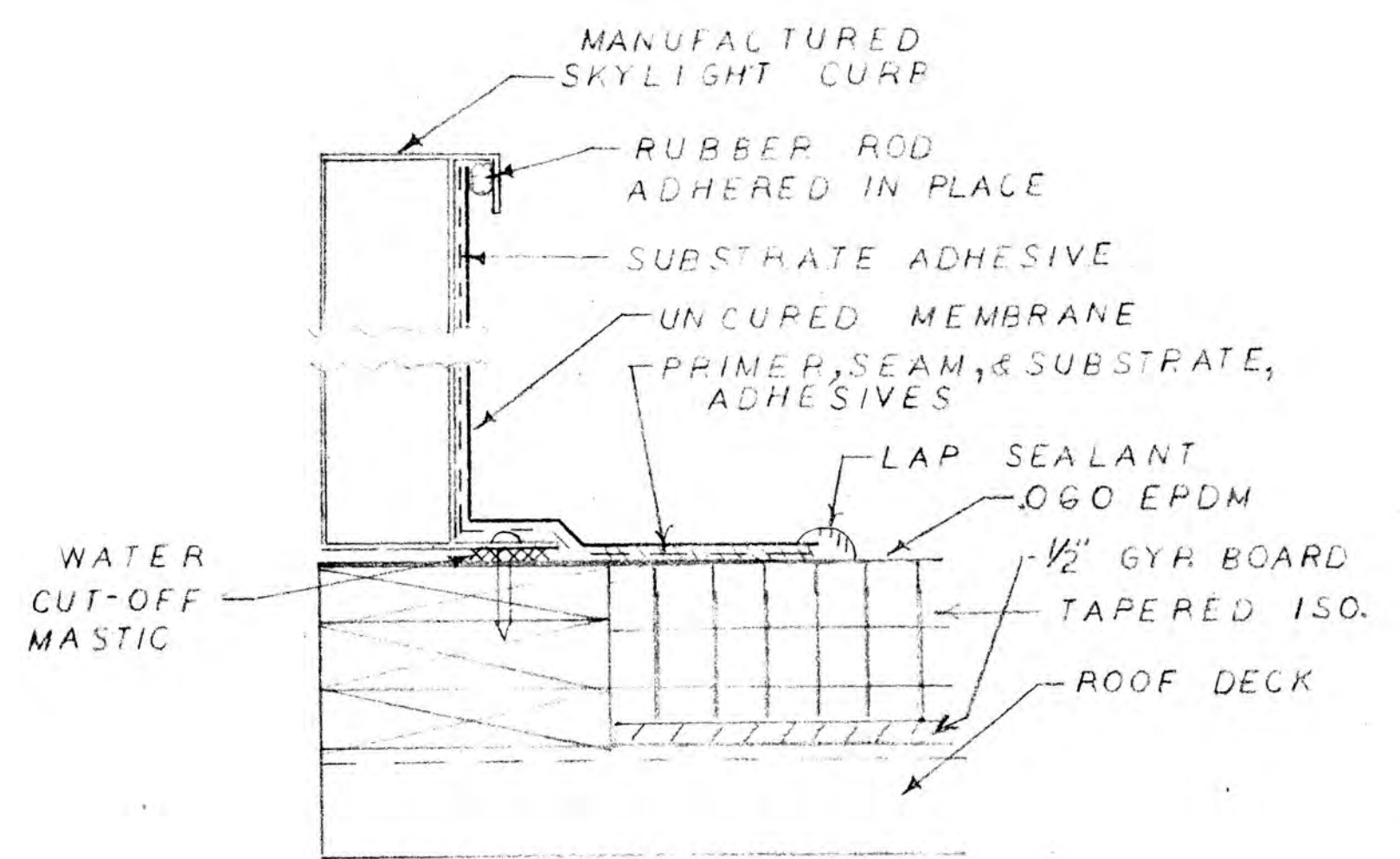
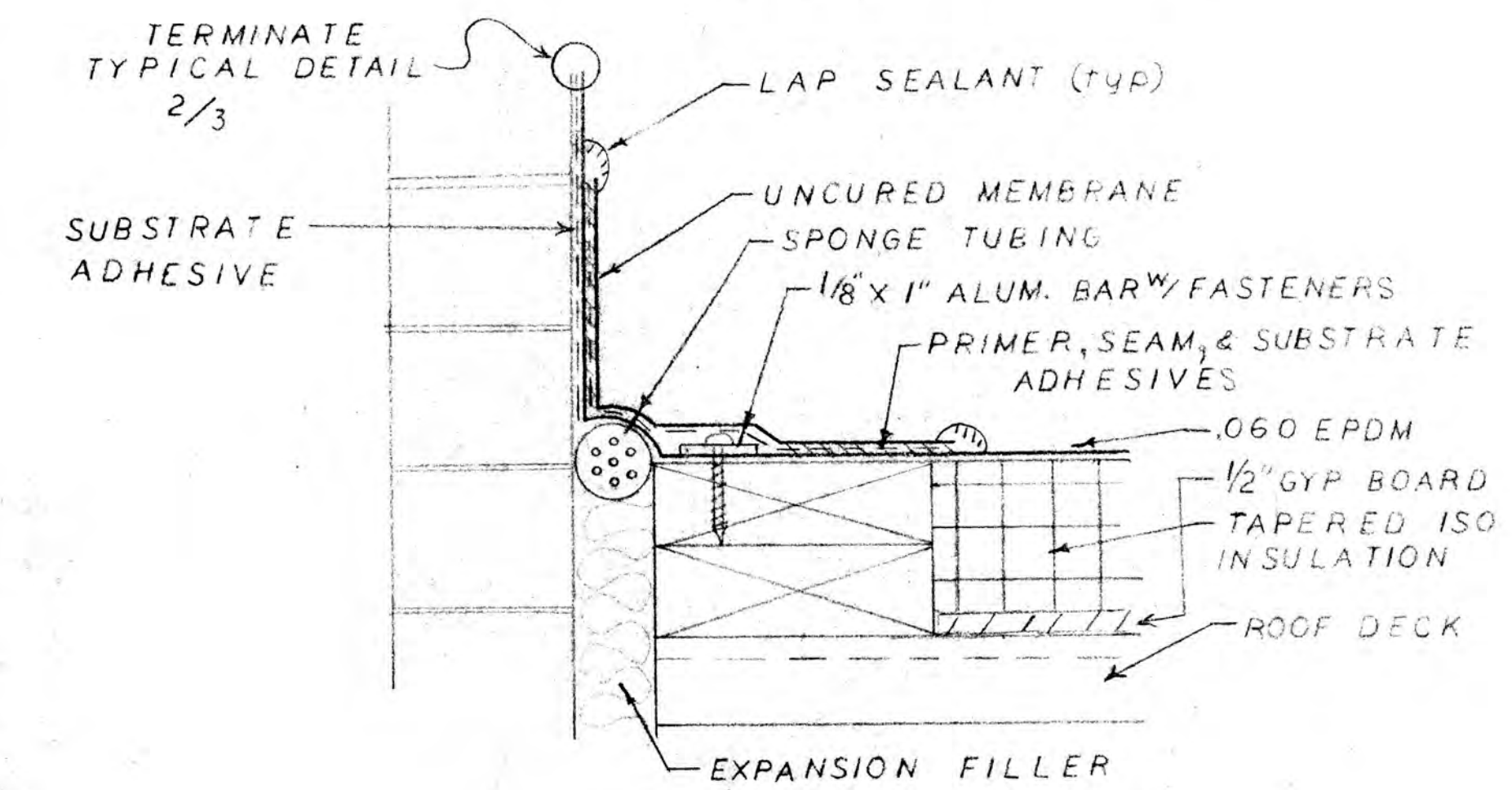
DESCRIPTION: **ROOF PLAN** DRAWN BY/DATE: **A MCK 4-30-93** CONTRACT NO.:
 CHECKED BY: _____ 2 SHEET OF 3



DETAIL V 0620
V 0410 (2/3)

DETAIL V 0620 (5/3)

DETAIL V 0710 (8/3)



DETAIL V 1161 (3/3)

DETAIL V 0651 (6/3)

JOHN AM
1-700-222-4211

REVIEWED
FURNISH AS CORRECTED
REVISE AND RESUBMIT
REJECTED
 Corrections or comments made on the shop drawings during this review do not relieve Contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general compliance with the information given in the contract documents. The Contractor is responsible for: Confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.
 DATE 10/2/93 By J.S.

MAY 26 1993

APPROVED	<input type="checkbox"/>
APPROVED BUT NOT RECOMMENDED	<input checked="" type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
NOT APPROVED	<input type="checkbox"/>

This drawing has been checked for conformance with design concept only. The Contractor is responsible for all shop details, quantities, and dimensions.
 Approval does not relieve the Contractor of responsibility for full compliance with the provisions of the contract documents.

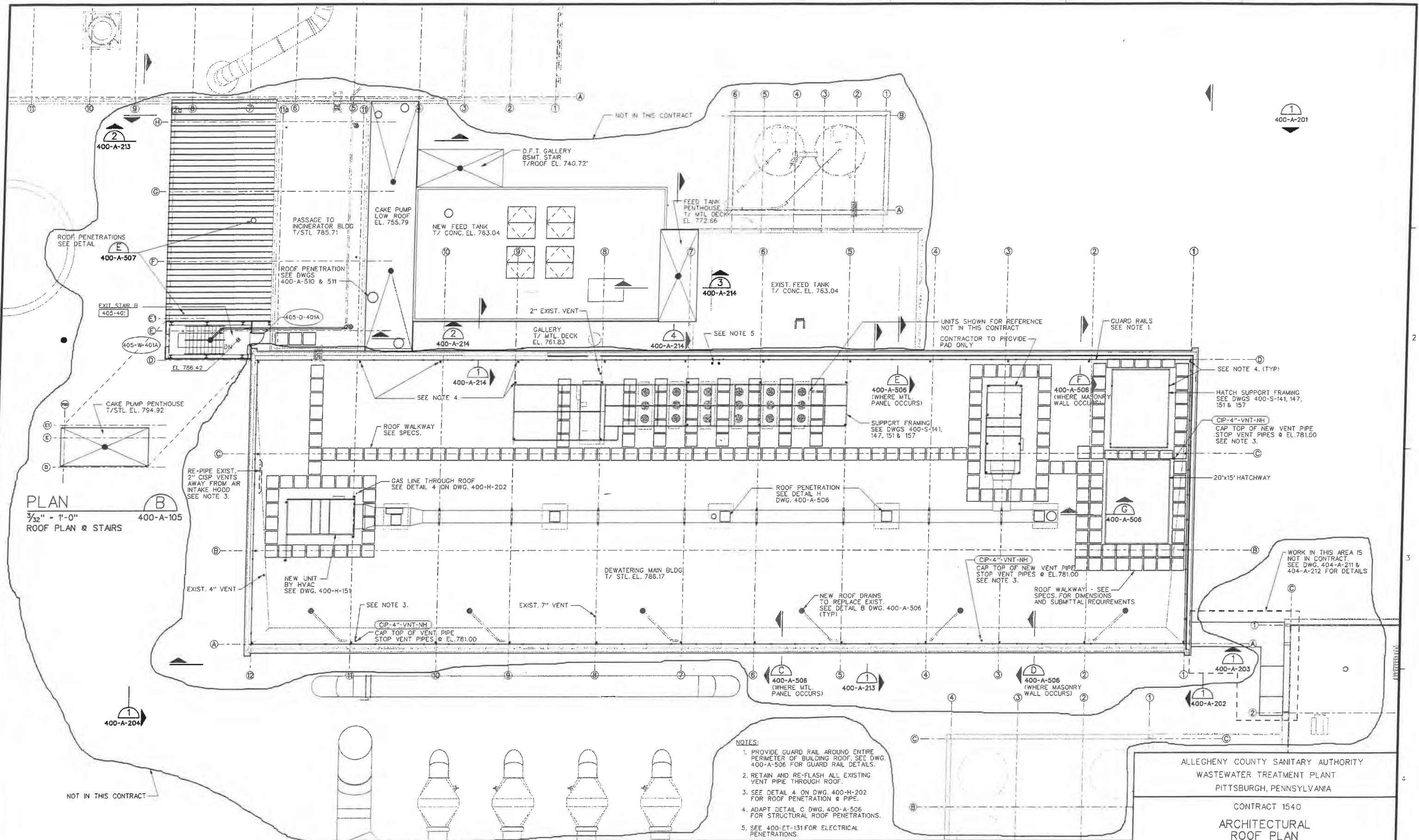
ALLEGHENY COUNTY
 SANITARY AUTHORITY
 By: *Nicholas J. Marchese*
 Checked By: _____ Date: JUN 4 1993
 ACSA: _____ Date: _____
 Engineer: _____ Date: _____

NO.	DATE	SUBMITTAL	REV.	BY

NO. DATE SUBMITTAL REV. BY

CASSADY-PIERCE CO. JOB NAME: **ALLEGHENY COUNTY SANITARY AUTHORITY**
 2295 PREBLE AV
 PGH, PA. 15233
 (412)321-8987

DESCRIPTION: **DETAILS** DRAWN BY/DATE: **AMCK 4-30-93** CONTRACT NO. _____
 CHECKED BY: _____ SHEET 3 OF 3



PLAN
 $\frac{3}{32}'' = 1'-0''$
 ROOF PLAN & STAIRS

PLAN
 $\frac{3}{32}'' = 1'-0''$
 GRAPHIC SCALE

- NOTES:**
1. PROVIDE GUARD RAIL AROUND ENTIRE PERIMETER OF BUILDING ROOF. SEE DWG. 400-A-506 FOR GUARD RAIL DETAILS.
 2. RETAIN AND RE-FLASH ALL EXISTING VENT PIPE THROUGH ROOF.
 3. SEE DETAIL 4 ON DWG. 400-H-202 FOR ROOF PENETRATION & PIPE.
 4. ADAPT DETAIL C DWG. 400-A-506 FOR STRUCTURAL ROOF PENETRATIONS.
 5. SEE 400-ET-131 FOR ELECTRICAL PENETRATIONS.

ALLEGHENY COUNTY SANITARY AUTHORITY
 WASTEWATER TREATMENT PLANT
 PITTSBURGH, PENNSYLVANIA

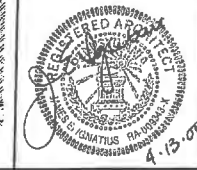
CONTRACT 1540
 ARCHITECTURAL
 ROOF PLAN

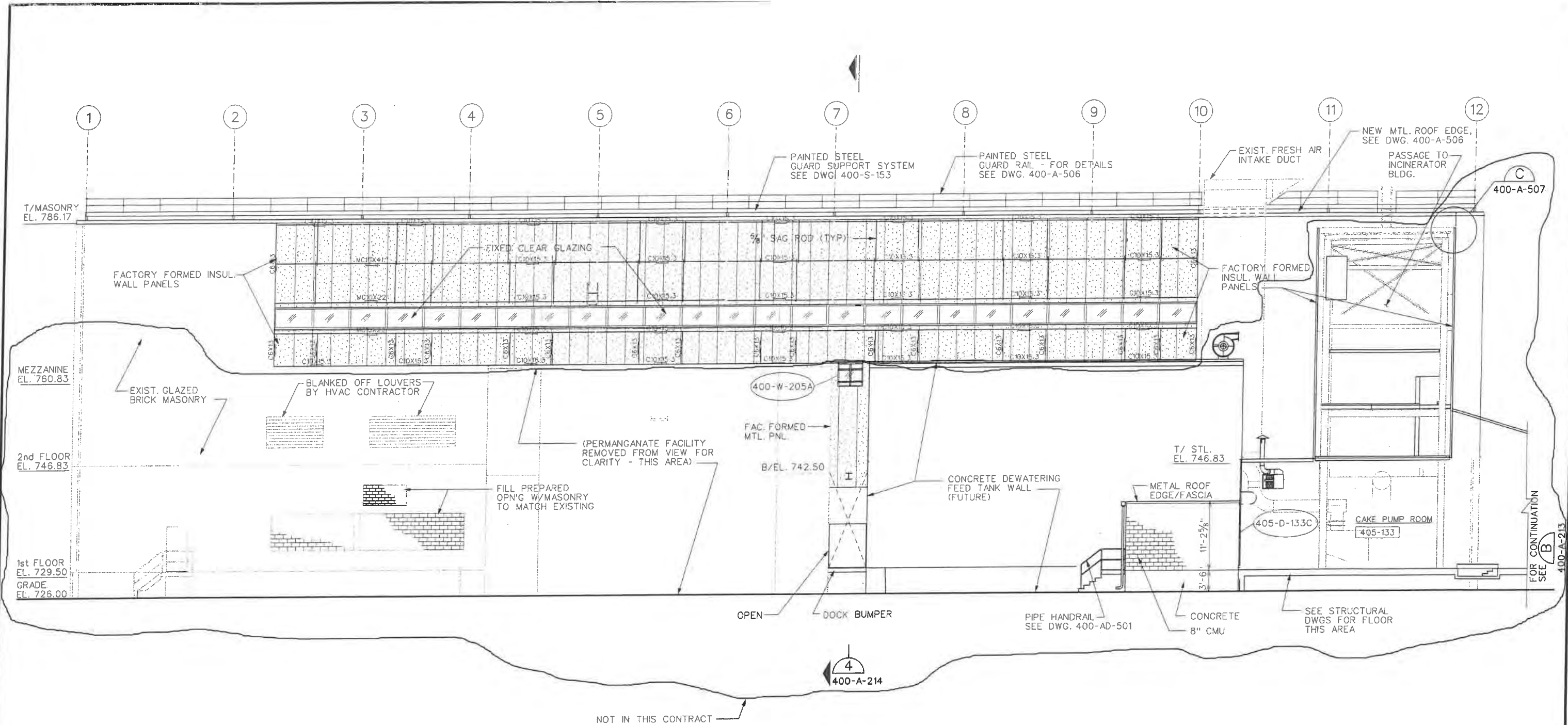
REV.	DESCRIPTION	DATE	APP
0			
1			
2			
3			
4			

SCALE: $\frac{3}{32}'' = 1'-0''$ CONTRACT No. 1540 SHEET OF

FILENAME: 223290\400A105 .P4A
 DATE PLOTTED: 12 APR 2000/16:53:41 400-A-105

T. FORSYTHE
 DRAWN BY:
 J. SEDER
 CHECKED BY:
 C. EASTER
 EXAMINED BY:

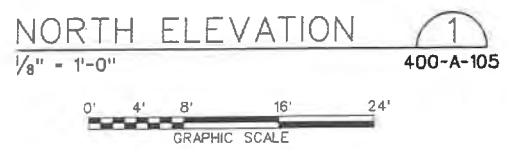




NOTE:
STEEL GIRTS BEHIND PANELS

NOT IN THIS CONTRACT

T. FORSYTHE
DRAWN BY:
J. SEDER
CHECKED BY:
C. EASTER
EXAMINED BY:



REV.	DESCRIPTION	DATE	APP.
0			
1			
2			
3			
4			

ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
PITTSBURGH, PENNSYLVANIA

CONTRACT 1540

ARCHITECTURAL
EXTERIOR ELEVATION - NORTH

SCALE: 1/8" = 1'-0" CONTRACT No. 1540 SHEET OF

FILENAME: 223290\400A201 .P4A
DATE PLOTTED: 12 APR 2000/17:46:53

400-A-201