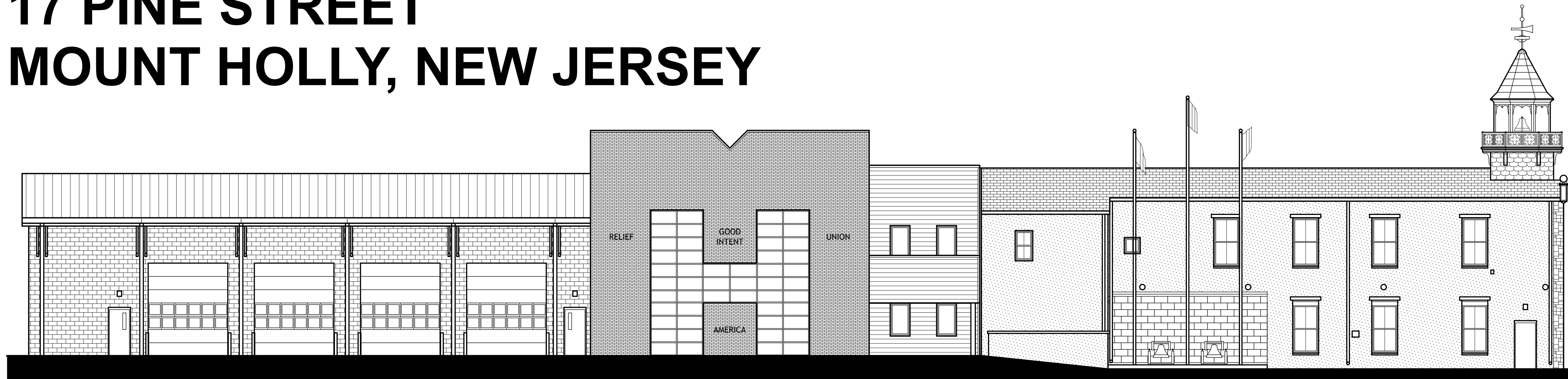


RELIEF FIRE COMPANY NO. 1 ADDITION / RENOVATION

BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23

17 PINE STREET

MOUNT HOLLY, NEW JERSEY



OWNER:

MT HOLLY FIRE DISTRICT NO. 1
 17 PINE STREET
 MT HOLLY, NJ. 08060
 609-261-7233

ARCHITECT:

REGAN YOUNG ENGLAND BUTERA, PC.
 456 HIGH STREET
 MT HOLLY, NJ. 08060
 609-265-2652, FAX 609-265-0333

SITE ENGINEER:

PENNONI ASSOCIATES, INC
 515 GROVE STREET, SUITE 1B
 HADDON HEIGHTS, NJ. 08035
 856-656-2890

STRUCTURAL ENGINEER:

HARRISON- HAMNETT, P.C.
 40 KNOWLES STREET
 PENNINGTON, NJ. 08534
 609-818-1808

MEP ENGINEERS:

KELTER AND GILLIGO CONSULTING ENGINEERS
 P.O. BOX 777, 14 WASHINGTON ROAD
 PRINCETON JUNCTION, NJ. 08550
 609-799-8336, FAX 609-275-9306

CONSTRUCTION MANAGER:

GREYHAWK CONSTRUCTION MANAGERS + CONSULTANTS
 2000 MIDLANTIC DRIVE, SUITE 210
 MOUNT LAUREL, NJ. 08554
 856-722-1800

KITCHEN CONSULTANT:

TAFF NASH FOOD SERVICE DESIGN
 4 SPRING HOUSE LANE
 DENVER, PA 17517

LIST OF DRAWINGS

CS	COVER SHEET	A3.1	PLAN DETAILS
CM0001	COVER	A3.2	PLAN DETAILS
CM0002	GENERAL NOTES	A3.3	PLAN DETAILS
CM0501	EXISTING CONDITIONS AND DEMOLITION PLAN	A4.0	WALL SECTIONS
CM1001	SITE PLAN	A4.1	WALL SECTIONS
CM1501	GRADING PLAN	A4.2	WALL SECTIONS
CM1701	UTILITY PLAN	A4.3	WALL SECTIONS
CM2001	LANDSCAPE PLAN	A4.4	WALL SECTIONS
CM2201	LIGHTING	A4.5	WALL SECTIONS
CM6001	CONSTRUCTION DETAILS-1	A4.6	WALL SECTIONS
CM6002	CONSTRUCTION DETAILS-2	A5.0	ROOF DETAILS
CM6003	CONSTRUCTION DETAILS-3	A5.1	ROOF DETAILS
CM8001	SOIL EROSION AND SEDIMENT CONTROL PLAN	A5.2	ROOF DETAILS
CM8501	SOIL EROSION AND SEDIMENT CONTROL NOTES	A5.3	ROOF DETAILS
CM8502	SOIL EROSION AND SEDIMENT CONTROL DETAILS	S-1	FOUNDATION PLAN
EC.1	EXISTING EXTERIOR PHOTOS	S-2	SECOND FLOOR FRAMING PLAN
EC.2	EXISTING INTERIOR PHOTOS	S-3	ROOF FRAMING PLAN
EC.3	EXISTING INTERIOR PHOTOS	S-4	FOUNDATION SECTIONS
A1.0	CODE ANALYSIS	S-5	WALL SECTIONS
A1.1	CODE ANALYSIS	S-6	ROOF SECTIONS
A1.2	COMCHECK ANALYSIS	S-7	TYPICAL DETAILS AND GENERAL NOTES
A1.3	USE GROUP, EGRESS AND SIGNAGE PLANS	HD1	FLOOR PLANS- HVAC DEMOLITION
A1.4	DEMOLITION FLOOR PLANS	H1	FIRST FLOOR PLAN AND MEZZANINE- HVAC
A1.5	DEMOLITION ELEVATIONS	H2	SECOND FLOOR PLAN- HVAC
A2.0	FIRE RATING PLAN	H3	ROOF PLAN- HVAC
A2.1	FINISH SCHEDULE AND WALL TYPES	H4	SYMBOLS, ABBREVIATIONS & SCHEDULES- HVAC
A2.2	FIRST FLOOR & ENLARGED PLANS	H5	FLOOR PLANS & SCHEDULES - HVAC ALT-BID
A2.3	SECOND FLOOR & ROOF PLANS	H6	SCHEDULES AND DETAILS- HVAC
A2.4	FURNITURE AND EQUIPMENT PLANS	H7	DETAILS- HVAC
A2.5	BUILDING ELEVATIONS	H8	CONTROLS DIAGRAMS- HVAC
A2.6	BUILDING SECTIONS	PD1	FIRST & SECOND FLOOR PLANS- PLUMBING DEMOLITION
A2.7	DOOR - WINDOW TYPES & DETAILS	P1	UNDERSIDE SLAB PLAN- PLUMBING
A2.8	ENLARGED PLANS	P2	FIRST FLOOR PLAN AND PARTIAL PLANS- PLUMBING
A2.9	ALTS- LOCKERS & MILLWORK	P3	SECOND FLOOR PLAN AND PARTIAL PLANS- PLUMBING
A2.10	MISC. DETAILS	P4	ROOF PLAN- PLUMBING
A2.11	MISC. DETAILS	P5	PARTIAL PLANS- PLUMBING
A2.12	MISC. DETAILS	P6	PARTIAL PLANS & DETAILS- PLUMBING
A2.13	REFLECTED CEILING PLANS	P7	SCHEDULES & DETAILS- PLUMBING
		P8	DOMESTIC WATER RISER DIAGRAMS- PLUMBING
		P9	SANITARY RISER DIAGRAMS- PLUMBING
		FP1	FIRST FLOOR PLAN- FIRE PROTECTION
		FP2	SECOND FLOOR PLAN- FIRE PROTECTION
		FP3	FIRST FLOOR PLAN- FIRE PROTECTION
		ED1	PLANS AND SYMBOLS LIST- ELECTRICAL DEMOLITION
		E1	SITE PLAN AND DETAILS- ELECTRICAL
		E2	FIRST FLOOR PLAN- LIGHTING
		E3	FIRST FLOOR PLAN-POWER
		E4	SECOND FLOOR PLAN- LIGHTING
		E5	SECOND FLOOR PLAN- POWER
		E6	ROOF PLAN- ELECTRICAL
		E7	DIAGRAMS AND SCHEDULES- ELECTRICAL
		IT1	FIRST FLOOR PLAN- INFORMATION TECHNOLOGY
		IT2	SECOND FLOOR PLAN- INFORMATION TECHNOLOGY

REGAN YOUNG, AIA
 21A00912100

REGAN YOUNG ENGLAND BUTERA
 REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
 456 HIGH STREET • MT. HOLLY, NEW JERSEY 08060 USA
 +1(609)265-2652/0333FAX • 21A00912100 • RYEBREAD.COM

REGAN YOUNG ENGLAND BUTERA, PC
 ARCHITECT

RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
 BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE **COVER SHEET**

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	RR
COMMISSION NO.:	5475B

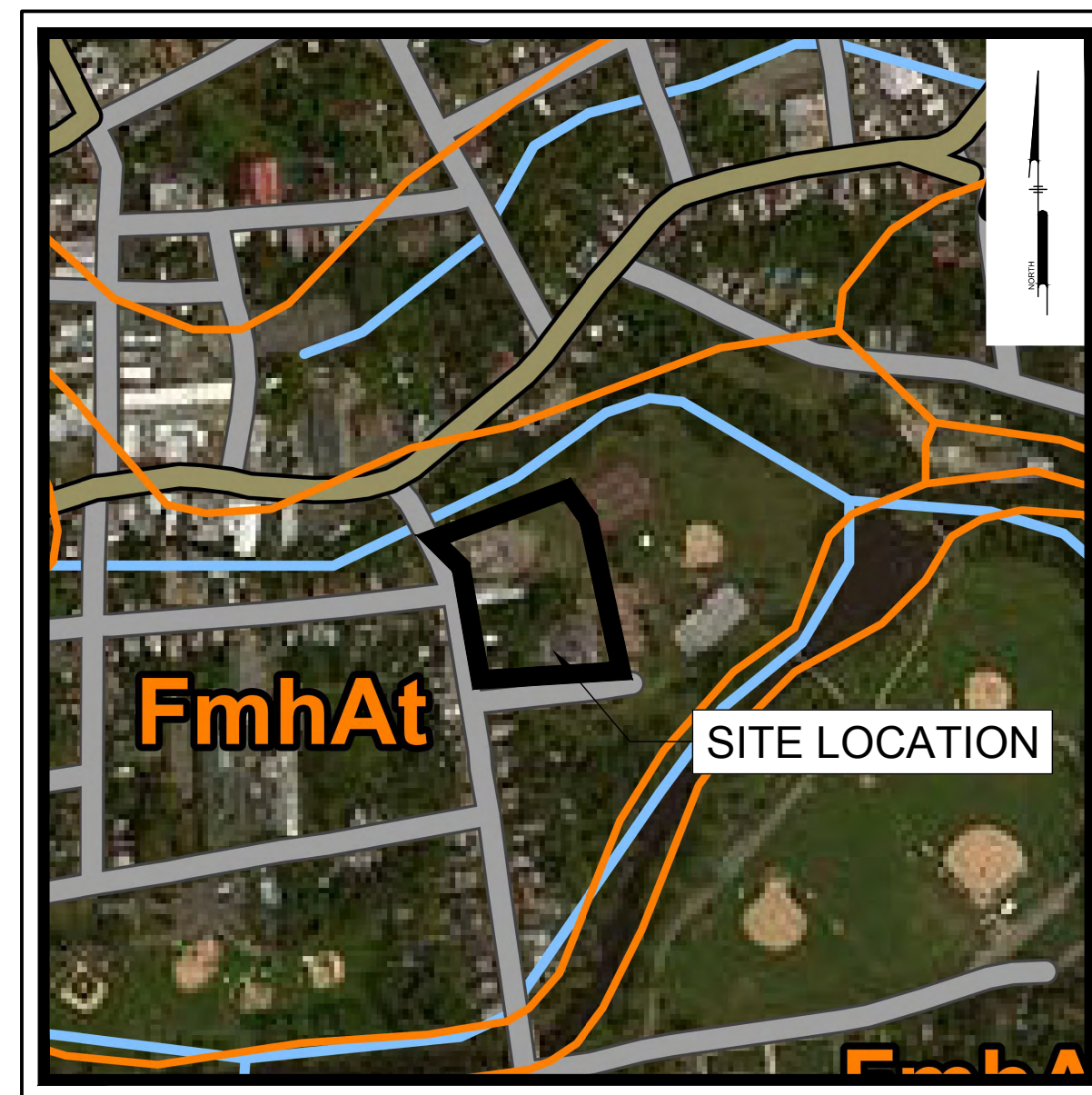
CS
 1 OF 1

RELIEF FIRE COMPANY NO. 1 ADDITION / RENOVATION

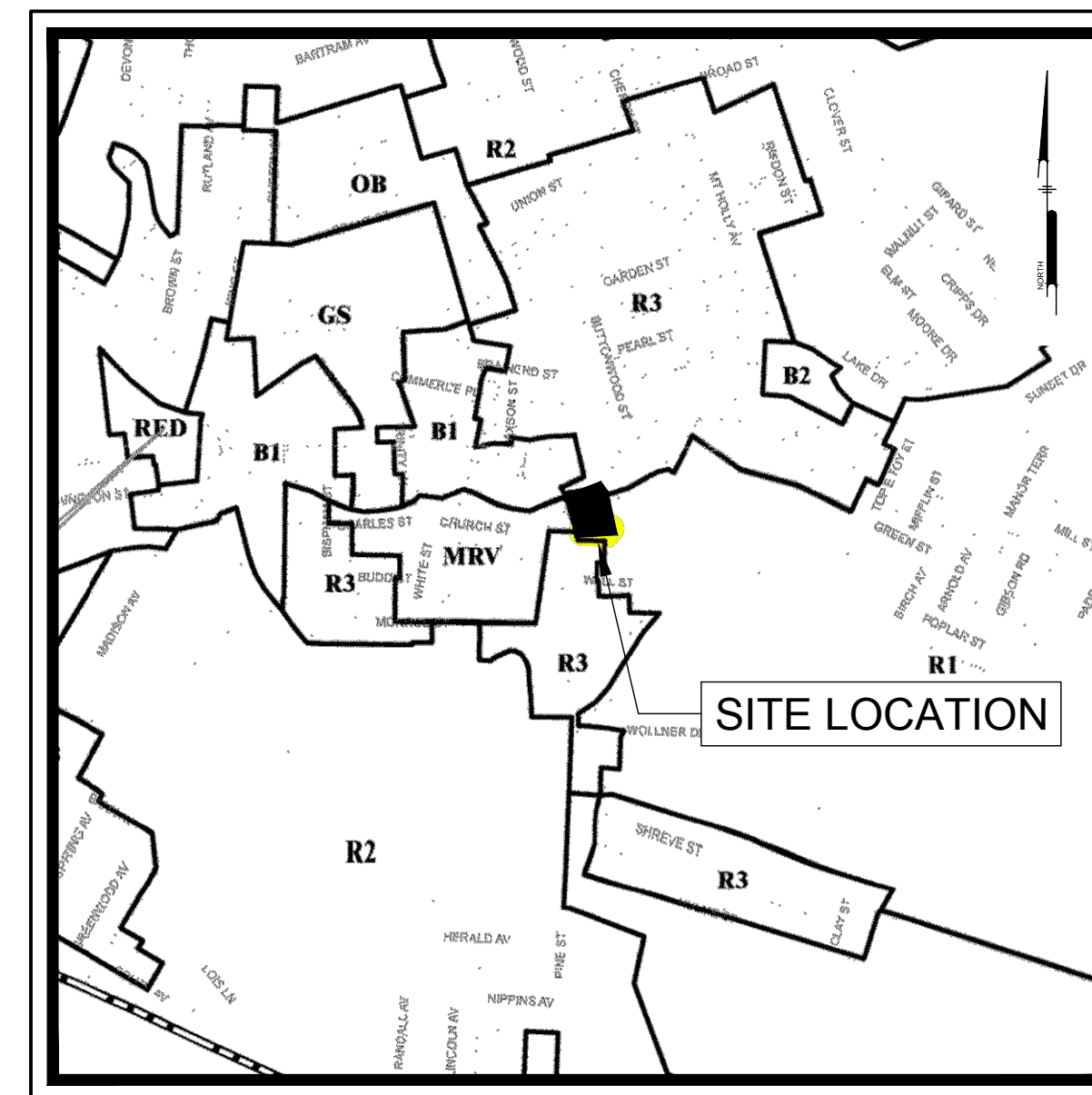
BLOCK 86; LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23

BURLINGTON COUNTY, NEW JERSEY

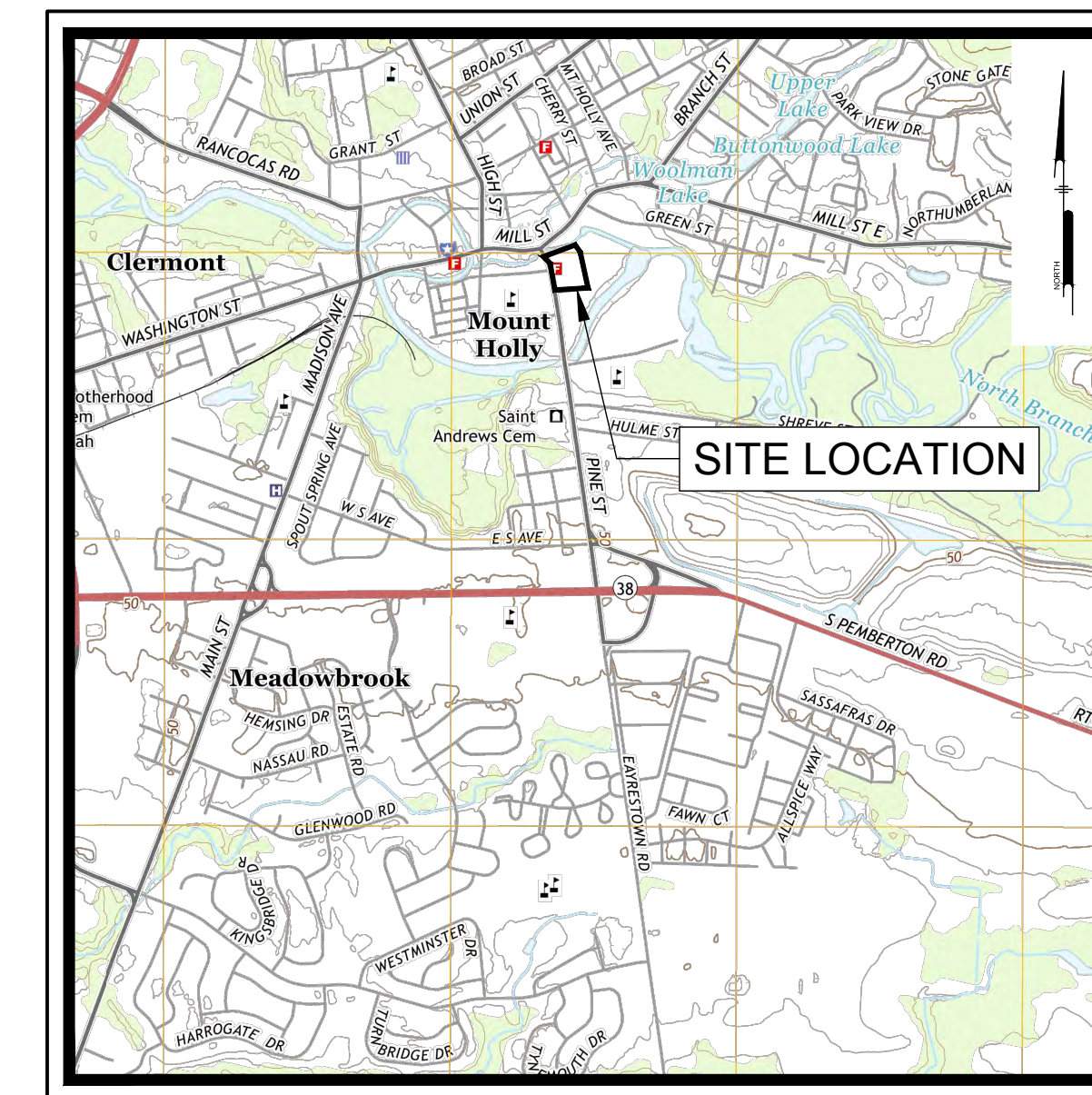
PREPARED FOR:
OWNER
MOUNT HOLLY FIRE DISTRICT NO.1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060



SOILS MAP
Scale: 1" = 400'



ZONING MAP
Scale: 1" = 1000'



USGS MAP
Scale: 1" = 2000'

PREPARED BY:
PENNONI ASSOCIATES INC.



515 Grove Street, Suite 1B
Haddon Heights, NJ 08035
T 856.547.0505
F 856.547.9174

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

SHEET NUMBER	DWG NO.	SHEET TITLE	DRAWING DATE	REVISION DATE
1	CM0001	COVER	8/18/2017	8/28/2020
2	CM0002	GENERAL NOTES	8/18/2017	8/28/2020
3	CM0501	EXISTING CONDITIONS AND DEMOLITION PLAN	8/18/2017	8/28/2020
4	CM1001	SITE PLAN	8/18/2017	8/28/2020
5	CM1501	GRADING PLAN	8/18/2017	8/28/2020
6	CM1701	UTILITY PLAN	8/18/2017	8/28/2020
7	CM2001	LANDSCAPE PLAN	8/18/2017	8/28/2020
8	CM2201	LIGHTING PLAN	11/30/2017	8/28/2020
9	CM6001	CONSTRUCTION DETAILS - 1	8/18/2017	8/28/2020
10	CM6002	CONSTRUCTION DETAILS - 2	8/18/2017	8/28/2020
11	CM6003	CONSTRUCTION DETAILS - 3	8/25/2020	8/28/2020
12	CM8001	SOIL EROSION AND SEDIMENT CONTROL PLAN	8/18/2017	8/28/2020
13	CM8501	SOIL EROSION AND SEDIMENT CONTROL NOTES	8/18/2017	8/28/2020
14	CM8502	SOIL EROSION AND SEDIMENT CONTROL DETAILS	8/18/2017	8/28/2020

ISSUED FOR BIDDING: 08/28/2020

Pennoni
PENNONI ASSOCIATES INC.
515 Grove Street, Suite 1B
Haddon Heights, NJ 08035
T 856.547.0505 F 856.547.9174
NJ COA NO. GA28033300

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
DISCREPANCIES BEFORE PROCEEDING WITH WORK
HUGH J. DOUGHERTY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 0E34634
Hugh Dougherty
08/28/2020

RELIEF FIRE COMPANY NO. 1
7 PINE STREET AND 23, TAX MAP SHEET 26
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY
COVER
MOUNT HOLLY FIRE DISTRICT NO. 1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060

DATE	NO.	DESCRIPTION
08/28/2020	10	ISSUED FOR BIDDING
07/02/2020	9	BURL. CNTY. S.C.D. RESUBMISSION
06/19/2020	8	BID PLANS
05/19/2020	7	PER COUNTY PLANNING BOARD ENGINEER
05/19/2020	6	PER NADUP COMMENTS
05/19/2020	5	BURL. CNTY. PER SUBMISSION RESUBMISSION
05/03/2019	4	NADUP AND GREENACHES RESUBMISSION
02/22/2019	3	NADUP AND GREENACHES RESUBMISSION
09/03/2019	2	BURL. CNTY. PER SUBMISSION
03/22/2019	1	NADUP SUBMISSION
		REVISIONS

PROJECT: MHFC1500
DATE: AUGUST 18, 2017
DRAWING SCALE: 1"=30'
DRAWN BY: JRB
APPROVED BY: HUD
CM0001
SHEET 1 OF 14

PROJECT STATUS: DATED: 08/28/2020 4:18 PM BY: Sam Baily PLOTTED: Pennoni Associates Inc. 08/28/2020 4:18 PM BY: Sam Baily

NEW JERSEY
ONE CALL
CALL BEFORE YOU DIG
1-800-272-1000

CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE REQUIREMENTS OF THE NEW JERSEY ONE-CALL DAMAGE PREVENTION SYSTEM AS STATED IN THE "UNDERGROUND FACILITY PROTECTION ACT". TICKET NUMBER(S):

SURVEY NOTES

EXISTING INFORMATION SHOWN BASED ON A FIELD SURVEY BY PENNONI ASSOCIATES INC. ON 2/26/2016.

REFERENCE:
- PLAN ENTITLED 'SURVEY - BLOCK 86, LOTS 4, 5, 10, 11, 22 & 22.01', BY LORD WORRELL RICHTER INC., JOB NO 11739, DATED 10/30/06, DWG NO. 24-136.

- PLAN ENTITLED 'TOPOGRAPHIC & BOUNDARY SURVEY', BY PENNONI ASSOCIATES, JOB NO MHFC1500, DATED 03/03/2016, LAST REVISED 03/20/2019, DWG NO. V0501

IT IS THE RESPONSIBILITY OF ALL DESIGNERS & CONTRACTORS UTILIZING THIS PLAN & THE INFORMATION CONTAINED THEREIN TO CALL THE NJ ONE-CALL SYSTEM AT 1-800-272-1100 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY, RECORD PLANS, AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE ARE SHOWN IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY EXPOSED UNDERGROUND UTILITIES FOR LOCATION.

VERTICAL INFORMATION BASED ON NAVD 1988.

UTILITY INSTALLATION NOTES

- 1. TRENCH DETAILS ARE INTENDED TO PROVIDE INFORMATION REGARDING BACKFILLING MATERIALS AND GENERAL MATERIAL DEPTHS AND PAYMENT LIMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND PRECLUDING ANY PONDING OF WATER IN ALL AREAS...
3. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT THE APPROXIMATE LOCATION OF KNOWN UTILITY STRUCTURES AND FACILITIES...

UTILITY INSTALLATION NOTES CONTINUED

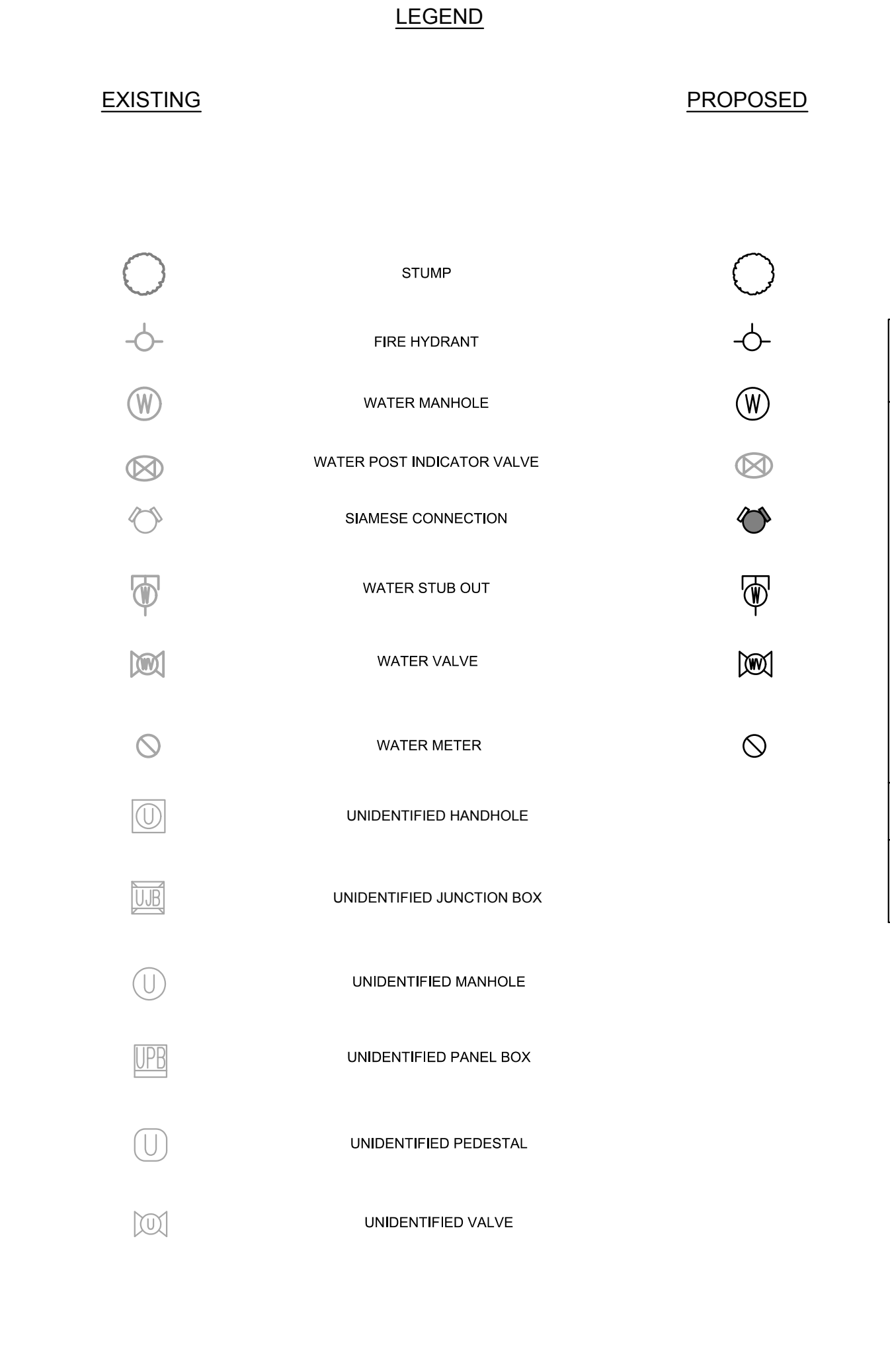
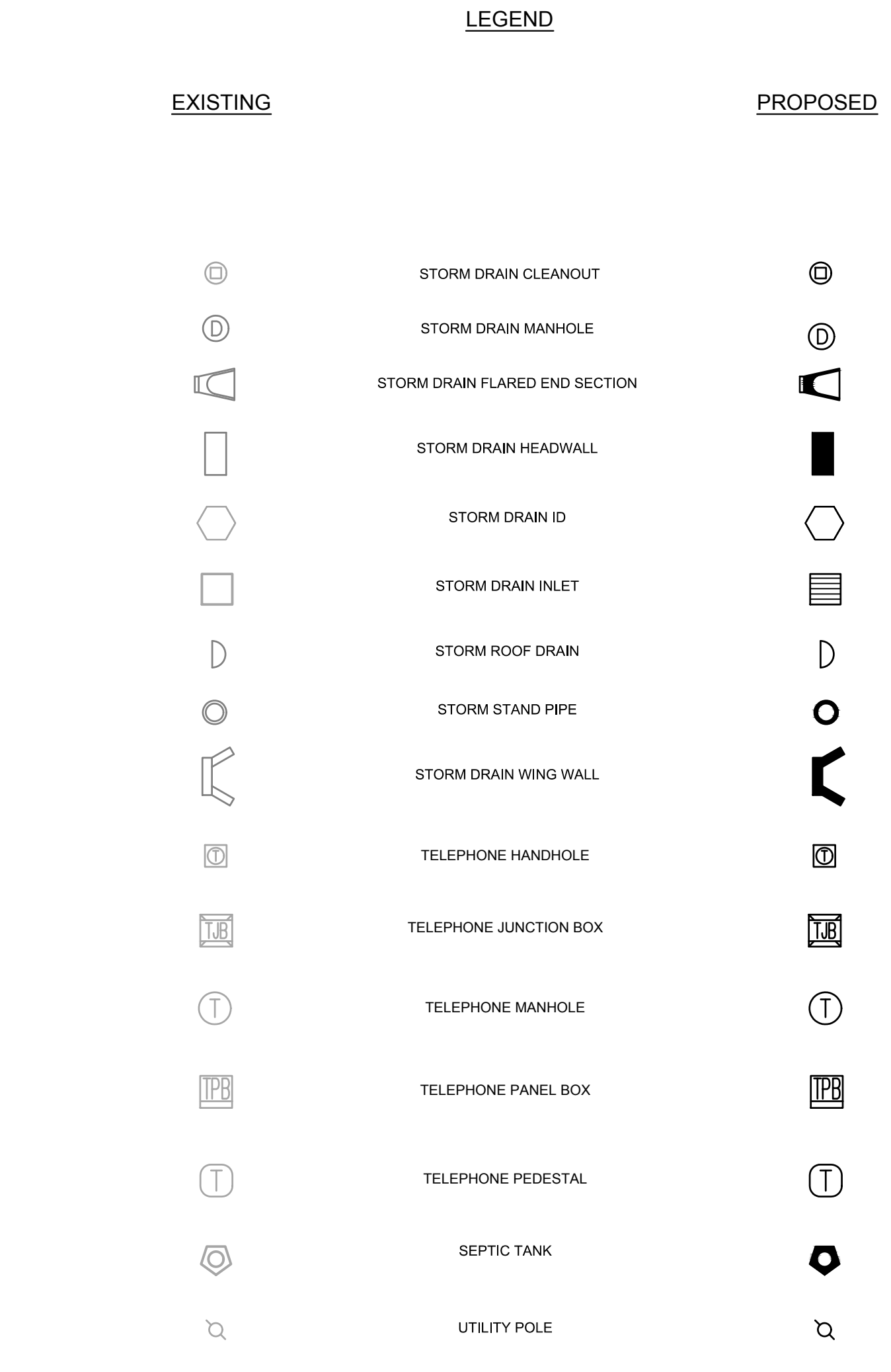
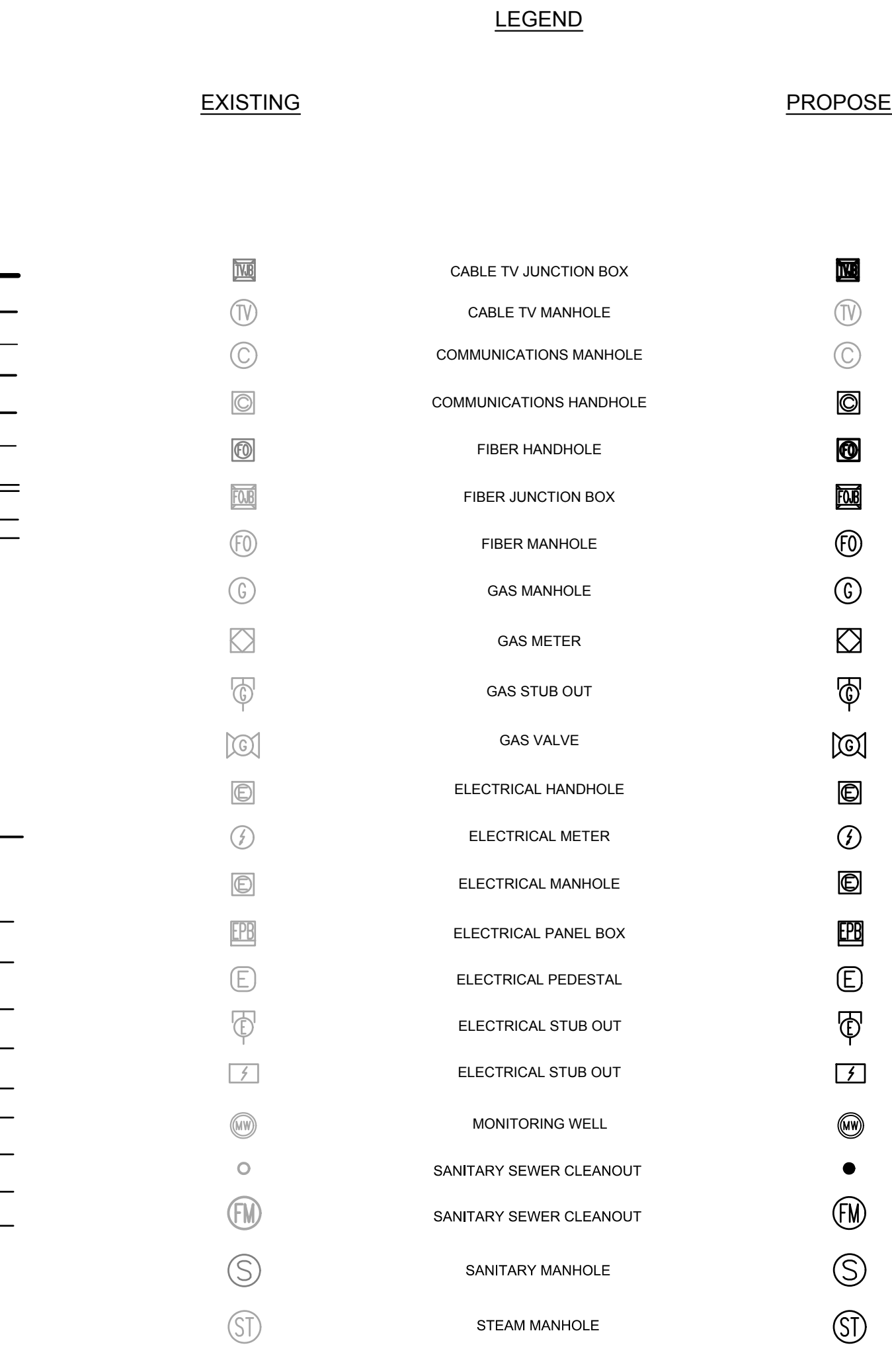
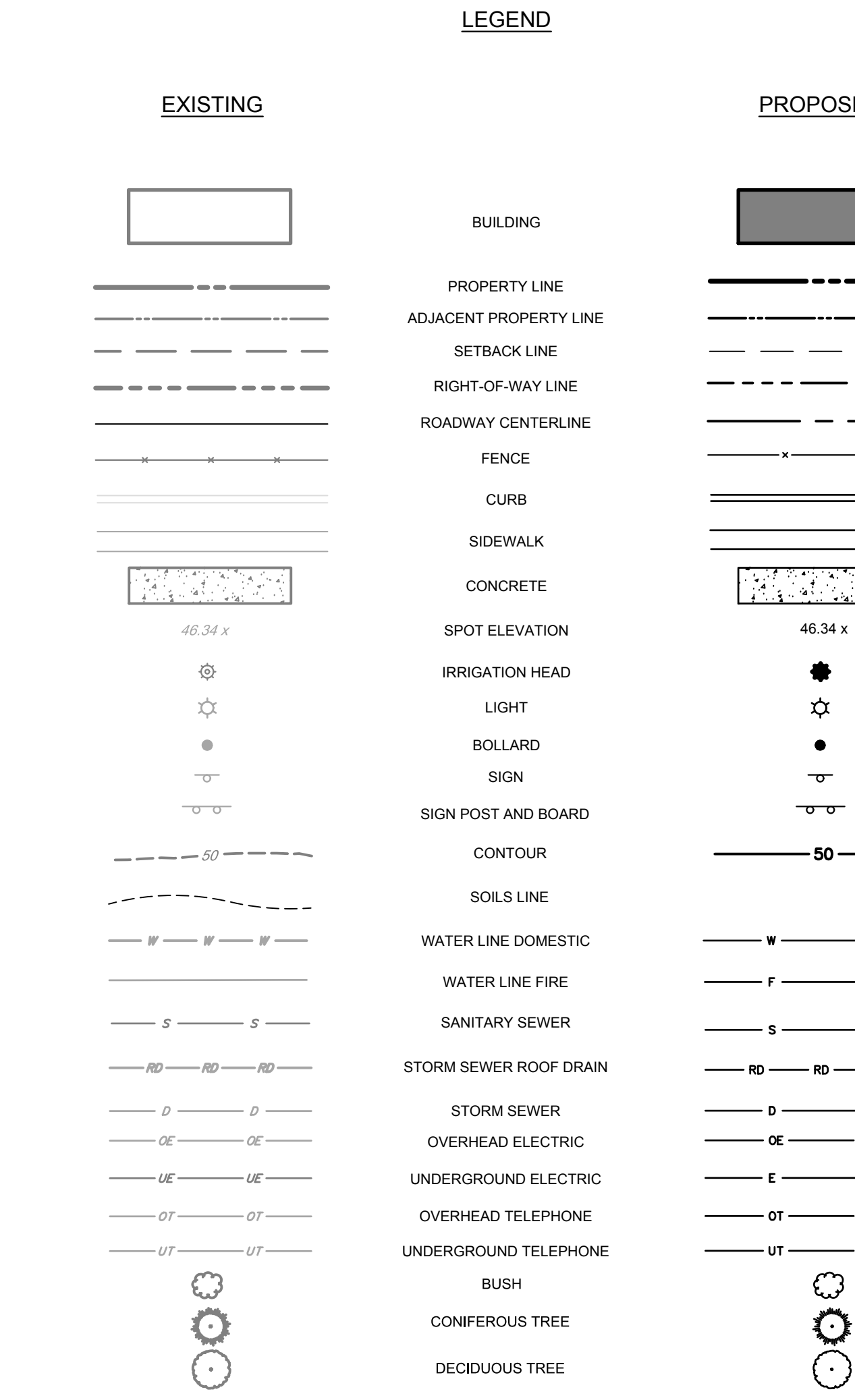
- 33. INSTALLATION OF ALL WATER/SEWER MAINS AND SERVICES SHALL COMPLY WITH LOCAL ORDINANCES.
34. THE SEPARATION OF DOMESTIC WATER AND FIRE SERVICE ALONG WITH THE NEW DOMESTIC WATER METER WILL BE INSTALLED WITHIN THE PROPOSED SERVICES MECHANICAL EQUIPMENT ROOM...
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST RELATED TO ANY REQUIRED ISOLATION OF THE WATERMAIN AND BY-PASSING OF THE SEWER IN ORDER TO MAKE A PROPOSED CONNECTION.

GENERAL NOTES:

- 1. THE OFFICE OF THE TOWNSHIP ENGINEER IS TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION OF ANY IMPROVEMENTS UNDER ITS JURISDICTION.
2. AS INDICATED IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' SUFFICIENT CONSTRUCTION WARNING SIGNS ARE TO BE PROVIDED AND MAINTAINED BY CONTRACTORS PERFORMING CONSTRUCTION WORK...
3. THE CONTRACTOR SHALL PROVIDE SUCH TEMPORARY DRAINAGE, SOIL EROSION, AND DUST ISOLATION MEASURES AS MAY BE DIRECTED BY THE TOWNSHIP ENGINEER OR OTHER AGENCIES OR DEPARTMENTS TO SATISFY ENVIRONMENTAL CONCERNS.

DEMOLITION NOTES:

- 1. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 241 AND OSHA STANDARDS.
2. CONTRACTOR SHALL NOTIFY OWNER AND THE ENGINEER 72 HRS. PRIOR TO INITIATING UTILITY ABANDONMENT.
3. ALL EXCAVATIONS AND OPEN AREAS REMAINING AFTER DEMOLITION SHALL BE BACKFILLED TO MATCH EXISTING GRADE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.

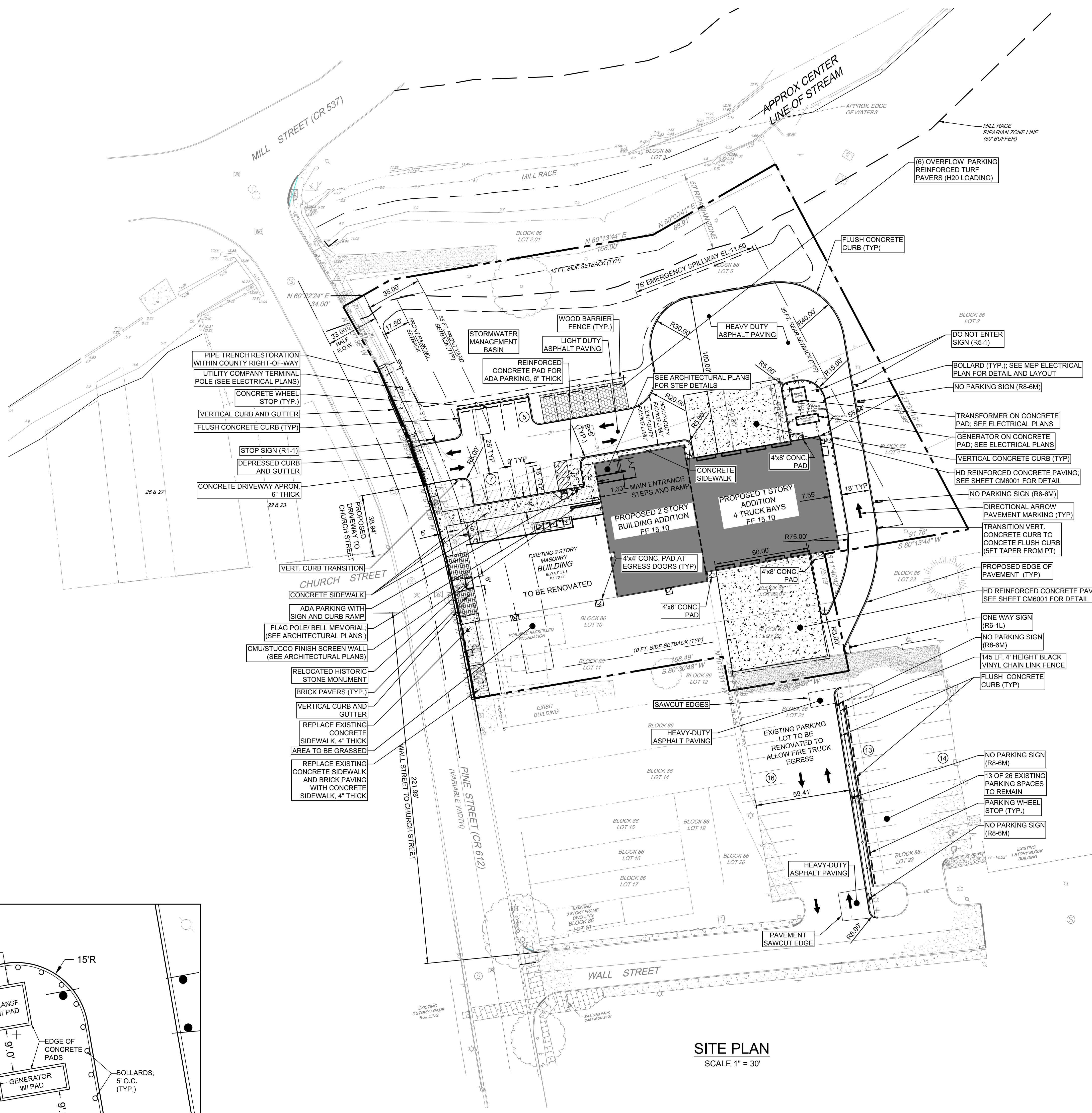
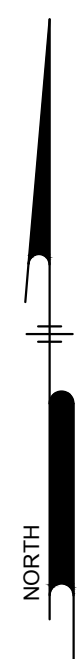


Pennonni logo and contact information for Pennoni Associates Inc., including address and phone numbers.

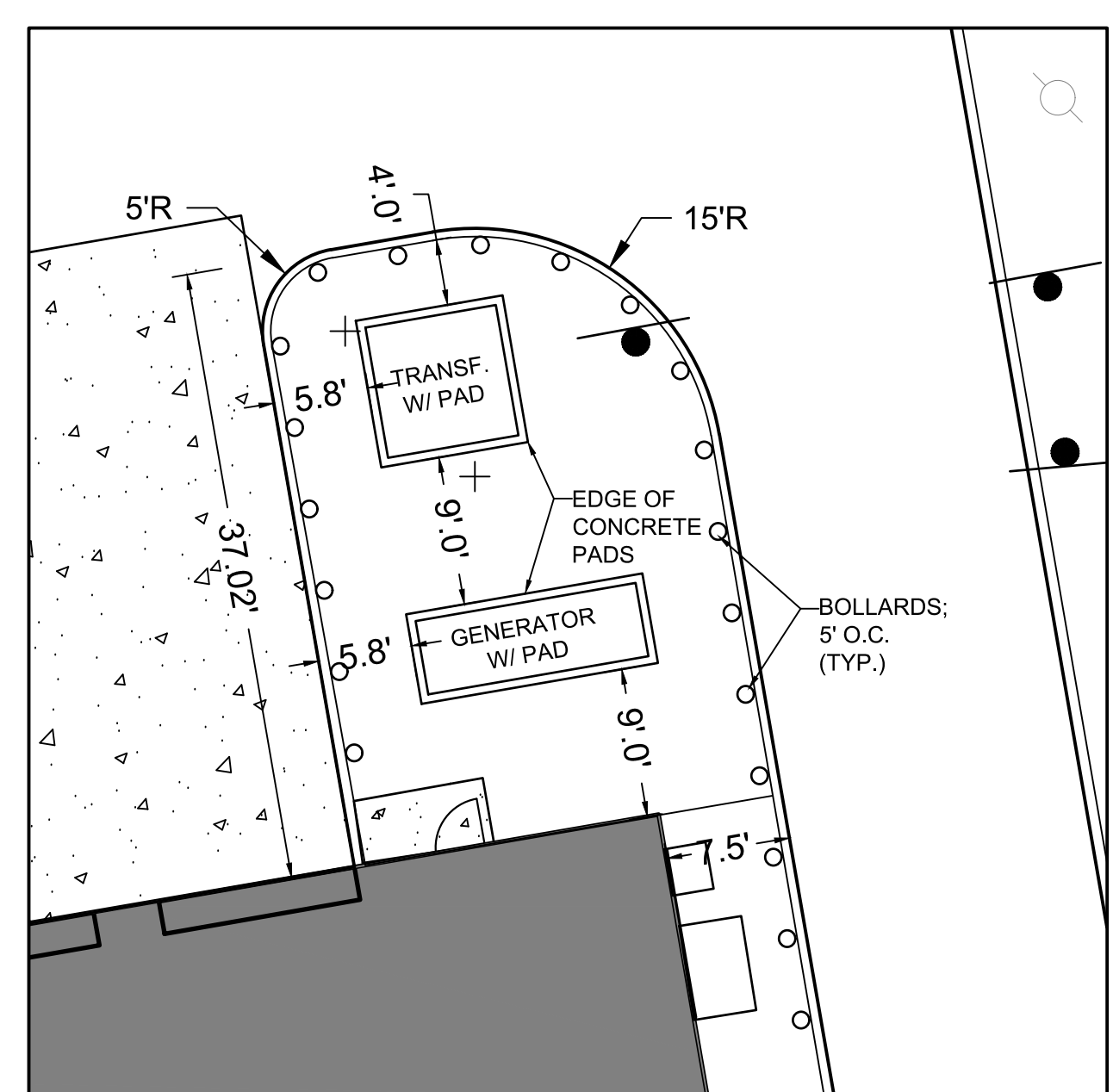
Professional Engineer information for Hugh J. Dougherty, including license number and signature.

Relief Fire Company No. 1 information, including address, location, and general notes.

Project summary table with columns for date, description, and status, and a project information section including project name, date, scale, and drawing details.



SITE PLAN
SCALE 1" = 30'



TRANSFORMER AND GENERATOR DETAIL
SCALE 1" = 10'

ZONE: R-1 (RESIDENTIAL) & R-3 (RESIDENTIAL)				
ORD. SECTION	ITEM	(NON-RESIDENTIAL USE) REQUIRED/PERMITTED	PROVIDED	STATUS
XIV-149	PERMITTED PRINCIPAL USE	ALL PUBLIC BUILDINGS AND PUBLIC USES	FIRE DEPARTMENT	C
BULK REQUIREMENTS (R-1)				
149-94	MIN. LOT AREA	15,000 SF	Lot 5-43,995 SF Lot 4-29,185 SF Lot 22.01-3,920 SF Lot 22-3,476 SF Lot 10-3,600 SF Lot 11-3,071 SF	ENC (Lots 22.01, 22.10 & 11)
	MIN. LOT WIDTH	100 FT	21.33 FT (Lot 11)	ENC
	MAX. BUILDING COVERAGE	N/A	N/A	N/A
	MIN. FRONT YARD SETBACK	35', EXCEPT WHERE EXISTING BUILDINGS ARE ON THE SAME SIDE OF THE STREET AND WITHIN 500' FROM AN ESTABLISHED SETBACK. NEW BUILDINGS SHALL CONFORM TO SUCH ESTABLISHED LINE. PROVIDED THAT NO NEW BLDG. MAY BE CLOSER THAN 25' TO THE FRONT PROPERTY LINE NOR BE SET BACK MORE THAN 50'.	INTO ROW LINE	ENC
	MIN. SIDE YARD SETBACK	NO SIDE YARD SHALL BE LESS THAN 10'. AGGREGATE WIDTH OF THE TWO SIDE YARDS COMBINED MUST EQUAL 35% OF THE LOT WIDTH AT THE BUILDING LINE	47 FT +/-	ENC
	MIN. REAR YARD SETBACK	35 FT	75 FT +/-	ENC
	MAX. BUILDING HEIGHT	2 1/2 STORIES OR 35 FT WHICH EVER IS LESS	>35 FT	NC

PARKING & LOADING REQUIREMENTS				
NON-RESIDENTIAL USES IN THE RESIDENTIAL ZONE PROVISIONS SHALL BE MADE FOR ONE SQUARE FOOT OF TOTAL PARKING AREA FOR EACH SQUARE FOOT OF GROSS FLOOR AREA. PARKING COUNT: 130 SPACES 9X18=162 SF / 21,000 SF / 162 SF = 129.6 SPACES TOTAL STANDARD PARKING = 130				
149-83.B.3	2010 ADA STANDARDS	ADA PARKING SPACES = 1 (VAN ACCESSIBLE);	1 SPACE	1 SPACE
		TOTAL ON-SITE PARKING	SPACES	SPACES
149-83.F.1.d	MIN. SPACE DIMENSIONS	MIN. ADA PARKING SPACE SIZE	9' x 18'	9' x 18'
149-83.C.1	NO PARKING AREA SHALL EXTEND INTO ANY FRONT YARD MORE THAN 1/2 THE FRONT YARD SETBACK REQUIREMENT		17.5'	9.00'
149-83.C	LOADING AREA	1 SPACE / 30,000 SF OF FLOOR AREA	N/A	N/A
149-83.C.1	LOADING AREA SIZE	10' WIDE X 60' LONG	N/A	N/A
149-85	VEHICULAR CIRCULATION DRIVEWAYS	10' WIDE FOR ONE WAY; 20' WIDE FOR TWO WAY WITH 15' RADIUS AT PUBLIC STREET; ALL DRIVEWAYS INTERSECTIONS WITH A PUBLIC STREET SHALL BE 90 DEGREES	18' & 25' TWO WAY DRIVEWAY	C
149-85	VEHICULAR CIRCULATION	DRIVEWAYS SHALL BE LOCATED NO CLOSER THAN 100' FROM EXISTING INTERSECTIONS OR OTHER DRIVEWAYS	100 FT.	C

LANDSCAPING & LIGHTING REQUIREMENTS				
	LIGHTING LEVEL	NOT LESS THAN 1 FOOT-CANDLE	>1 FC	C
	PARKING AREA LANDSCAPING STANDARDS	TREES ADJACENT TO PARKING AREAS SHALL HAVE AT LEAST A 4' NONPAVED RADIUS AREA SURROUNDING THEM AND SHALL BE PROTECTED FROM VEHICLES		C

OFF-STREET PARKING REQUIREMENTS				
	OFF STREET PARKING IMPERVIOUS COVERAGE	>30%	46.10%	C

NC = NON-COMFORMANCE
ENC = EXISTING NON-COMFORMANCE
C = CONFORMANCE
N/A = NOT APPLICABLE

OFFSITE IMPROVEMENTS

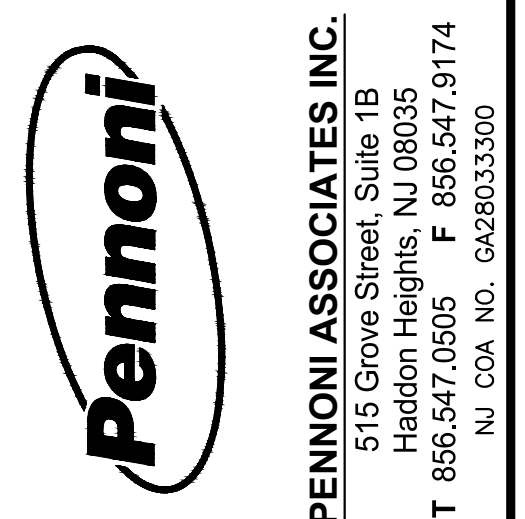
REMOVAL OF PARKING ISLAND ON LOT 21:
130 SF SMALL ISLAND
+ 260 SF LARGE ISLAND
390 SF INCREASE IN PAVEMENT (IMPERVIOUS)

INSTALLATION OF GRASS STRIP BETWEEN REMAINING ISLANDS ON LOT 21:
118 LF x 4 LF = 472 SF DECREASE IN PAVEMENT (IMPERVIOUS)

472 SF IMPERVIOUS AREA DECREASE
- 390 SF IMPERVIOUS AREA INCREASE
82 SF NET DECREASE IN IMPERVIOUS AREA

*STORMWATER CONTROLS NOT REQUIRED

NO.	DATE	REVISIONS
1	08/22/2018	EXISTING INFORMATION SHOWN BASED ON FIELD SURVEY BY PENNONI ASSOCIATES, INC ON 2/26/16.
2	08/22/2018	BLOCK AND LOT INFORMATION TAKEN FROM THE OFFICIAL TAX MAPS OF THE TOWNSHIP OF MOUNT HOLLY, PLATE 25.
3	08/22/2018	PENNONI PERFORMED A WETLANDS INVESTIGATION AT THE PROPOSED PROJECT AREA ON 2/17/16. THE INVESTIGATION CONCLUDED THAT THERE ARE NO WETLANDS PRESENT AT THE PROPOSED PROJECT AREA OR WITHIN THE VICINITY OF THE PROPOSED PROJECT AREA.



PENNONI ASSOCIATES, INC.
515 Grove Street, Suite 1B
Haddon Heights, NJ 08035
T 856.547.0505 F 856.547.9174
NJ COA NO. GA2633300

HUGH J. DOUGHERTY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE34634

Hugh Dougherty

RELIEF FIREHOUSE

17 PINE STREET
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 23 AND 25, TAX MAP SHEET 25
TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY

SITE PLAN

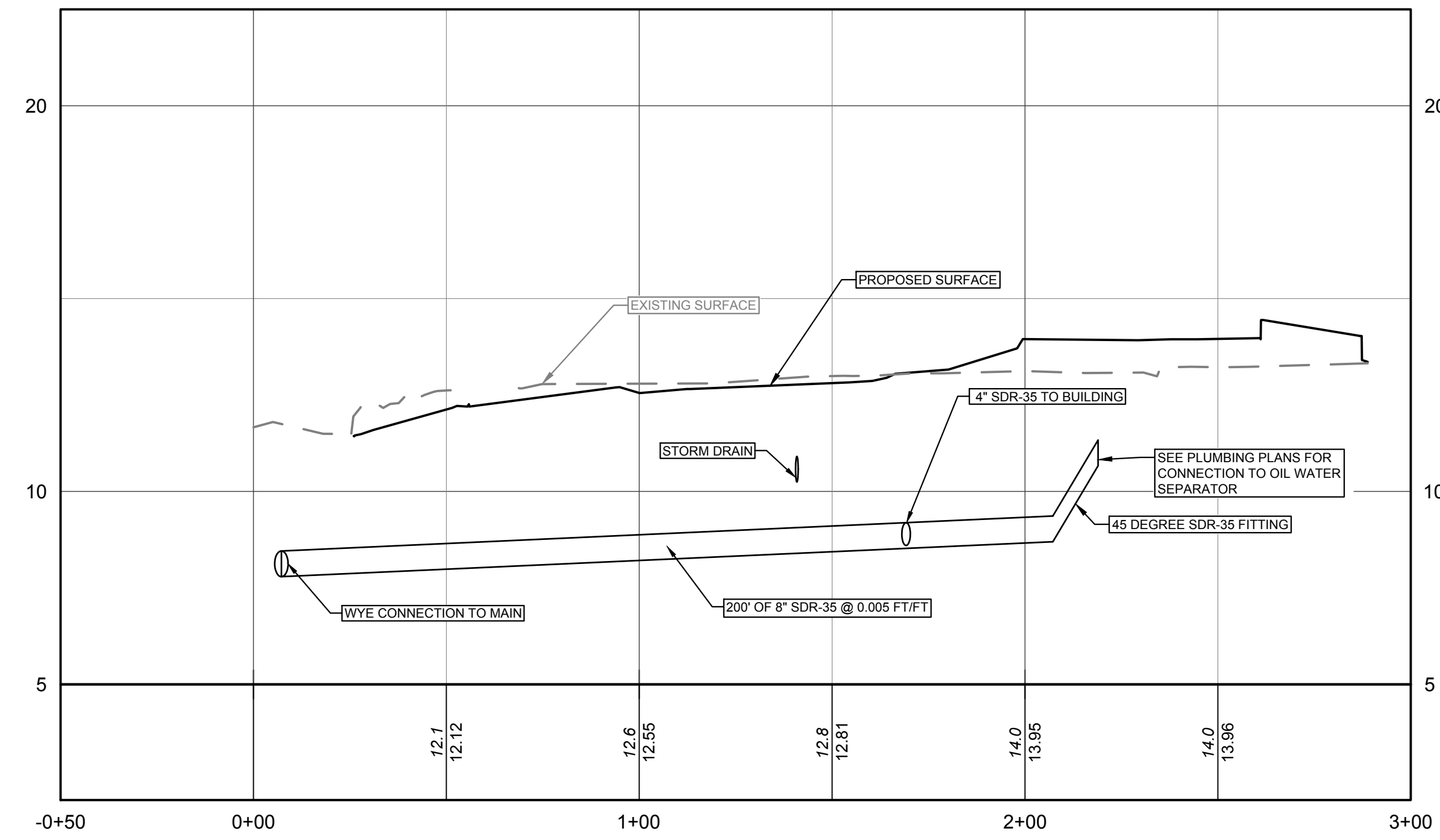
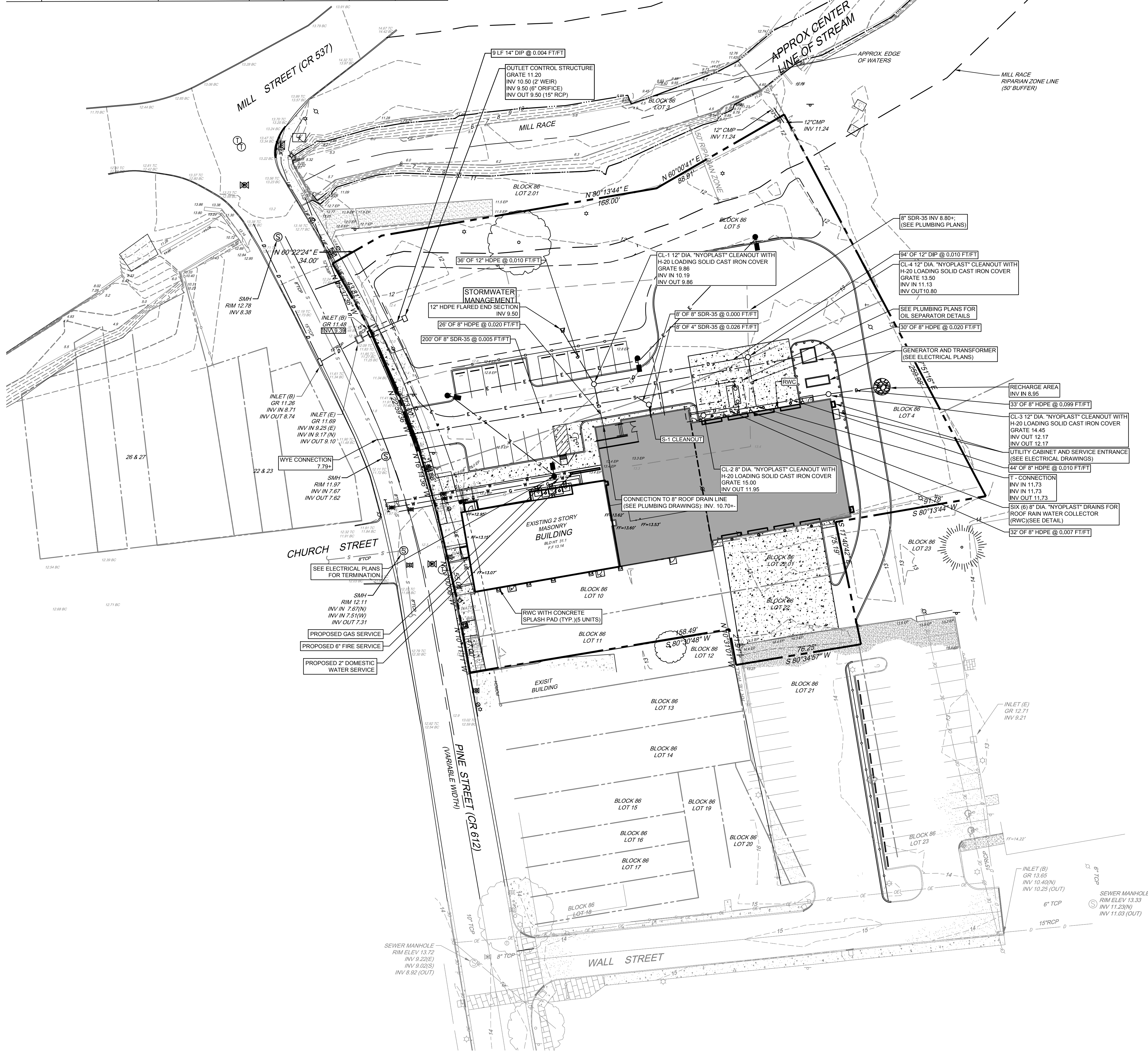
MOUNT HOLLY FIRE DISTRICT NO. 1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060

NO.	DATE	REVISIONS
1	08/22/2018	ISSUED FOR BIDDING
2	08/22/2018	BID PLANS
3	08/22/2018	FIRE COUNTY PLANNING BOARD ENGINEER
4	08/22/2018	PER NJDEP COMMENTS
5	08/22/2018	BURL. CNTY. PER BURMANSION REUBUMBISSON
6	08/22/2018	NJDEP AND GREENWICHES REUBUMBISSON
7	08/22/2018	NJDEP AND GREENWICHES REUBUMBISSON
8	08/22/2018	BURL. CNTY. PER BURMANSION
9	08/22/2018	NJDEP SUBMISSION

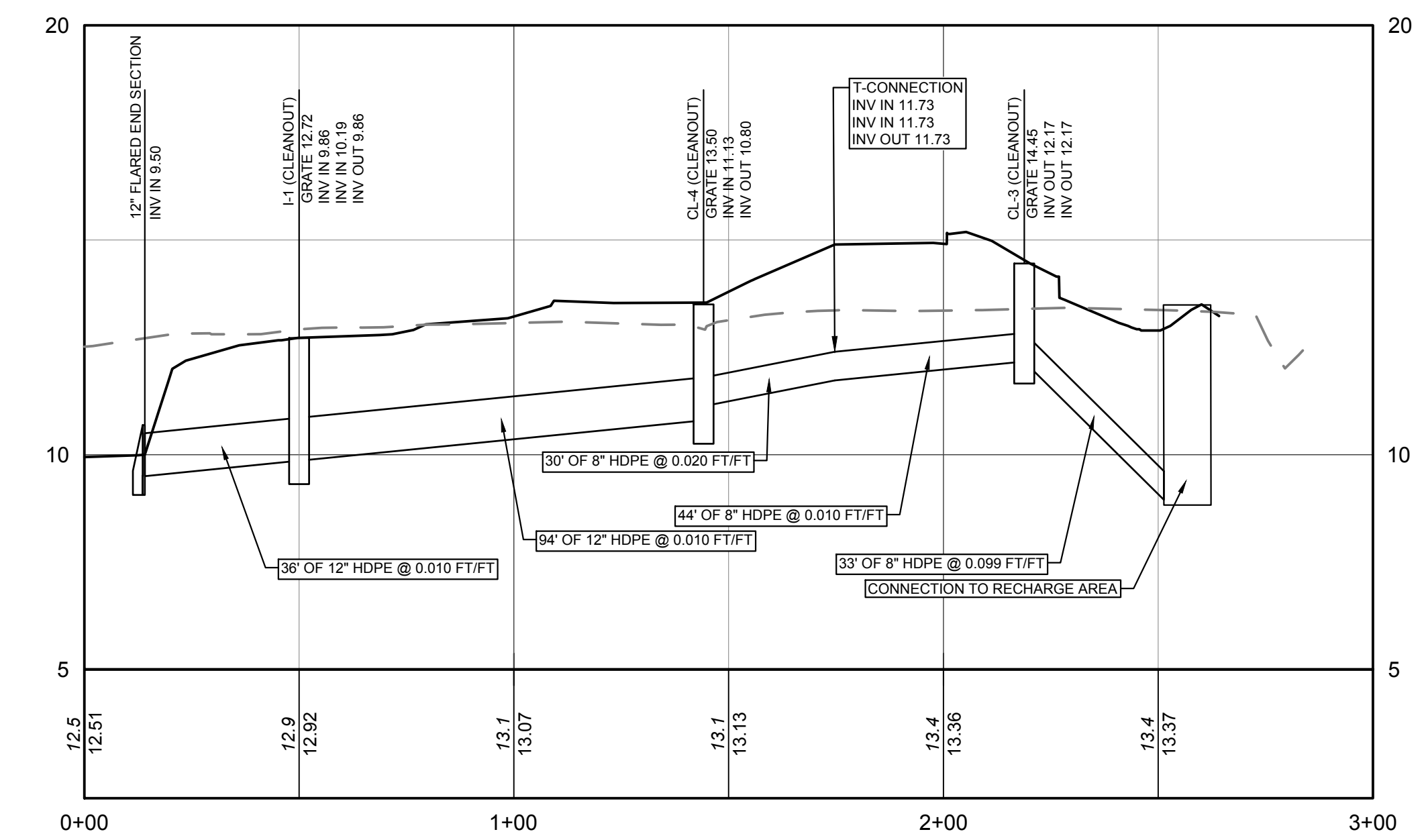
ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE BINDING FOR REUSE BY OWNER OR OTHERS ON OTHER PROJECTS WITHOUT WRITTEN VERIFICATION OR ASSUMPTION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED. LIABILITY FOR SUCH REUSE TO PENNONI ASSOCIATES, AND OWNER SHALL REMAIN UNLIMITED. PENNONI ASSOCIATES SHALL NOT BE RESPONSIBLE FOR ANY LOSSES AND EXPENSES INCURRED OUT OF OR RESULTING THEREFROM.

PROJECT: MHFC1500
DATE: AUGUST 18, 2017
DRAWING SCALE: 1"=30
DRAWN BY: JRB
APPROVED BY: HUD
CM1001
SHEET 4 OF 14

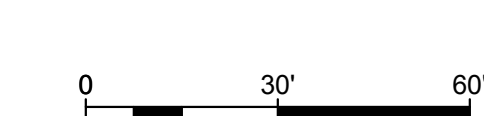
000 40K	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE TFTM OPTIC, 4000K, @ 1000mA.	LED	1	DSXW1_LED_20C_1000_40K_TFTM_MVOLT.ies	7711	0.95	73.2
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SEWER LATERAL 5+00
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



BASIN DRAINAGE 5+00
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



Pennoni
PENNONI ASSOCIATES, INC.
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T 856.547.0505 F 856.547.9174
NJ COA NO. GA26133200

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR DISCREPANCIES BEFORE PROCEEDING WITH WORK
HUGH J. DOUGHERTY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE44634
Hugh Dougherty

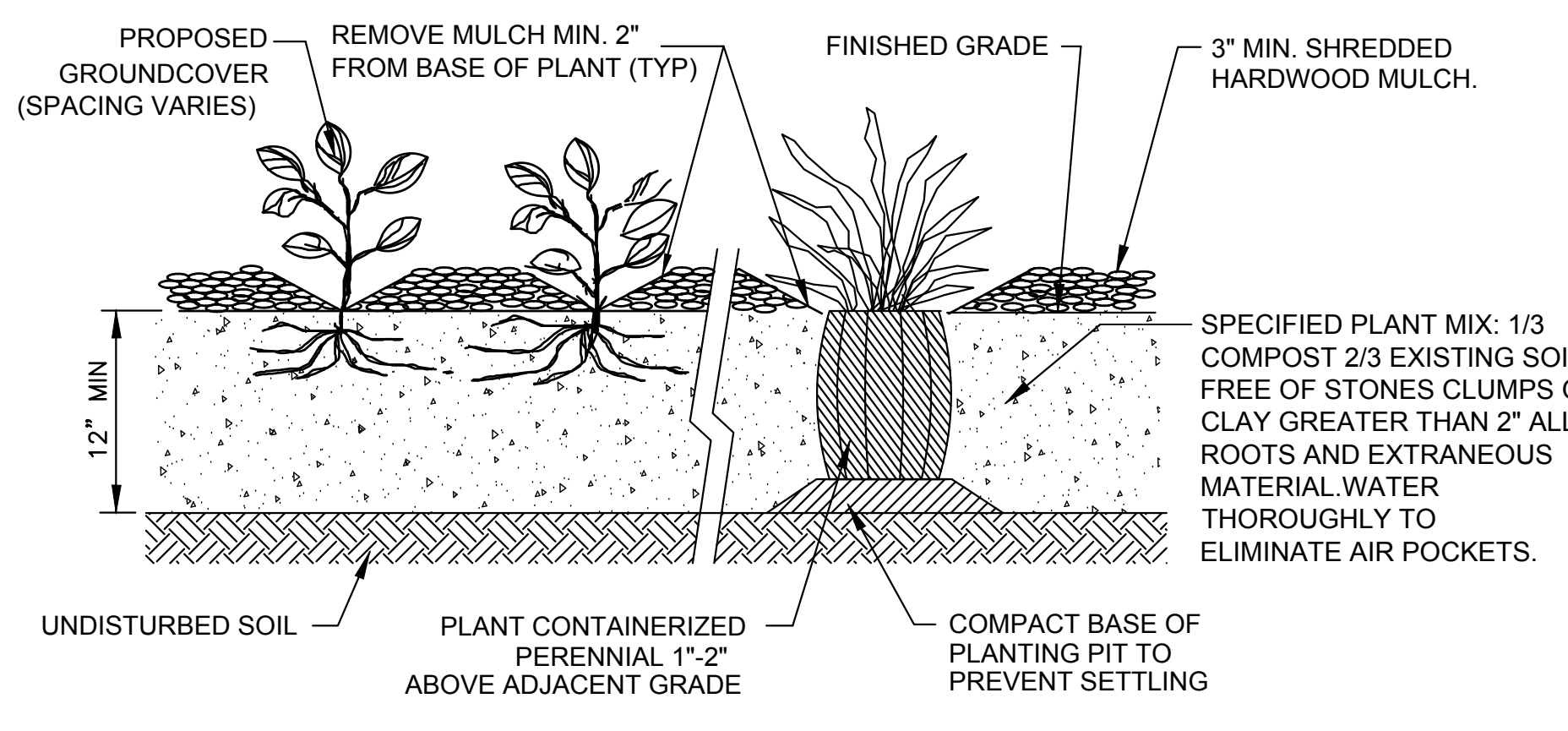
RELIEF FIRE COMPANY NO. 1
FINE STREET AND 23, TAX MAP SHEET 25
TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY
UTILITY PLAN
MOUNT HOLLY FIRE DISTRICT NO. 1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060

NO.	DATE	DESCRIPTION
10	08/28/2018	ISSUED FOR BIDDING
9	07/20/2018	BURL. CNTY. S.C.D. RESUBMISSION
8	07/19/2018	BP PLANS
7	07/19/2018	PER COUNTY PLANNING BOARD ENGINEER
6	07/19/2018	PER NJDEP COMMENTS
5	07/27/2018	BURL. CNTY. PE SUBMISSION RESUBMISSION
4	07/27/2018	NJDEP AND GREENWICHES RESUBMISSION
3	08/22/2018	NJDEP AND GREENWICHES RESUBMISSION
2	08/03/2018	BURL. CNTY. PE SUBMISSION
1	03/22/2018	NJDEP SUBMISSION

PROJECT	MHFC1500
DATE	AUGUST 18, 2017
DRAWING SCALE	1"=30'
DRAWN BY	JRB
APPROVED BY	HJD

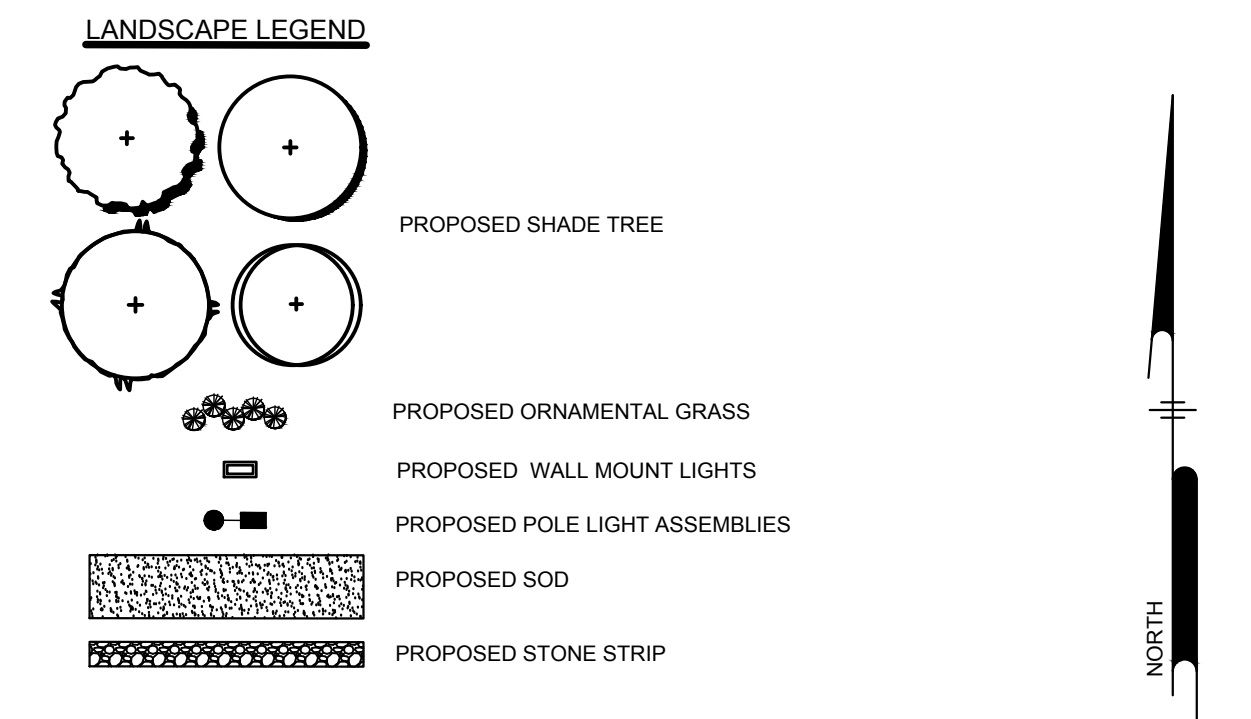
CM1701
SHEET 6 OF 14

C:\Users\jrb\Documents\Projects\1500\1500.dwg PLOT DATE: 08/28/2018 10:47:51 AM BY: John Baily PLOT TITLE: Pennoni\1500.dwg PROJECT STATUS:



PERENNIAL/GROUNDCOVER/ORN. GRASS PLANTING
NOT TO SCALE

PLANT SCHEDULE						
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
DECIDUOUS SHADE TREES						
PAC	2	PLATANUS X ACERFOLIA 'COLUMBIA'	COLUMBIA PLANTREE	2.5'-3" CAL.; 12-14' HGT.	B&B	FULL; LIMBED TO 7 FT.
AR	2	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2.5'-3" CAL.; 12-14' HGT.	B&B	FULL; LIMBED TO 7 FT.
QP	2	QUERCUS PHELLOS	WILLOW OAK	2.5'-3" CAL.; 12-14' HGT.	B&B	FULL; LIMBED TO 7 FT.
BN	3	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	2.5'-3" CAL.; 12-14' HGT.	B&B	FULL; MULTISTEMMED
ORNAMENTAL GRASS						
CA	39	CALAMAGROSTIS ACUTIFLORA KARL FOERSTER'	FEATHER REED GRASS	12-15' HGT.	#1 CONT.	SPACE 3'-0" O.C.



PLANTING NOTES

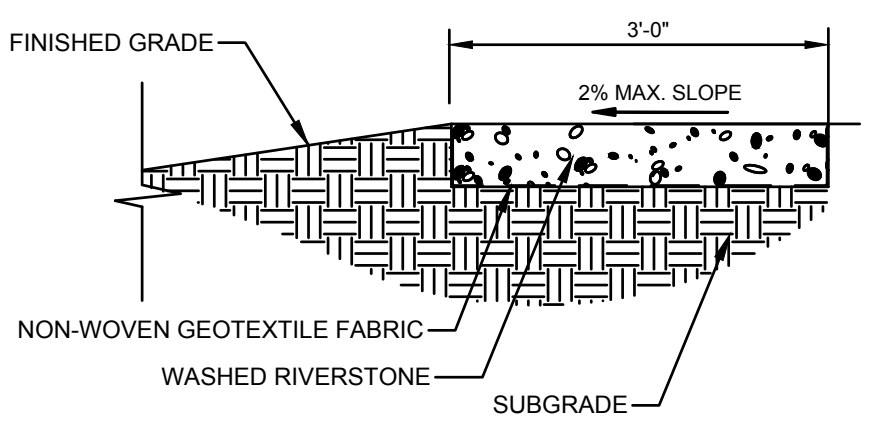
- ALL PLANT LOCATIONS SHALL BE STAKED IN THE FIELD AND LOCATIONS APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- TOPSOIL WITH A QUALITY ORGANIC SOIL AMENDMENT SHALL BE USED FOR ALL PLANTING AND SEEDING OPERATIONS.
- INSTALL 12" MINIMUM TOPSOIL MIXTURE IN GROUNDCOVER BEDS AND 24" IN SHRUB BEDS AND ISLANDS. 6" OF TOPSOIL ARE TO REMAIN ON ALL DISTURBED AREAS TO RECEIVE SOD OR SEED.
- NOTIFY ALL UTILITY COMPANIES AND LOCATE ALL UTILITIES PRIOR TO EXCAVATING PLANT PITS. PLANT LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID INTERFERENCE WITH UNDERGROUND UTILITIES.
- SHOULD ANY DISCREPANCY ARISE BETWEEN THE PLANTING PLAN AND THE PLANTING SCHEDULE, THE DEVELOPER IS RESPONSIBLE FOR THE QUANTITIES SHOWN ON THE LANDSCAPE PLAN.
- ALL PLANT MATERIAL SHALL BE OF NURSERY STOCK QUALITY AS DEFINED BY THE AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS AND SHALL BE FIRST QUALITY NURSERY GROWN STOCK FREE OF DISEASE AND OBJECTIONABLE DISFIGUREMENTS AND PLANTED IN CONFORMANCE WITH SOUND NURSERY PRACTICE AND APPLICABLE CITY STANDARDS.
- ALL NON-BIODEGRADABLE ROOT WRAPPING TO BE REMOVED COMPLETELY BEFORE PLANTING.
- ALL TREES SHALL BE BALLED AND BULLAPED, NURSERY GROWN STOCK.
- ALL PLANT MATERIAL AND LAWS SHALL BE PLANTED WITHIN THE RECOMMENDED SEASONAL TIME PERIODS AS PRESCRIBED BY ACCEPTED HORTICULTURAL PRACTICE. RECOMMENDED PLANTING TIMES ARE BETWEEN APRIL 15TH THRU MAY 31ST OR AUGUST 17TH THRU OCTOBER 15TH. FALL DIGGING AND TRANSPORT HAZARD TREE SPECIES (OAKS, ETC.) SHALL BE ONLY BE DUG AND PLANTED IN SPRING.
- ALL PLANT MATERIAL SHALL BE APPROVED UPON ARRIVAL TO THE SITE, UNLESS OTHERWISE NOTIFIED.
- PROPOSED PLANT MATERIAL MAY BE SUBSTITUTED BY SIMILAR PLANTS PRIOR TO INSTALLATION, SUBJECT TO APPROVAL BY THE CITY ENGINEER.
- A TEMPORARY FENCE, SUCH AS SNOW FENCE, SHALL BE ERECTED AT THE PERIMETER OF THE DRIPLINE OF ALL EXISTING VEGETATION INDICATED TO REMAIN PRIOR TO EXCAVATION, CONSTRUCTION OR SITE WORK. THIS FENCE SHALL BE REMOVED ONLY AT THE TIME OF COMPLETION OF ALL CONSTRUCTION AND FINAL GRADING.
- EXISTING TREES TO BE RELOCATED SHALL BE HANDLED ACCORDING TO ACCEPTABLE HORTICULTURE PRACTICE.
- ALL DISTURBED AREAS NOT SHOWN AS PLANTED OR LAWN SHALL BE TOPSOILED AND SEEDED OR RETURNED TO THEIR ORIGINAL STATE BEFORE DISTURBANCE AS DIRECTED BY THE CITY ENGINEER.
- ALL AREAS NOT RELATED TO THE PROPOSED DEVELOPMENT SHALL REMAIN IN THEIR NATURAL STATE. DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO WORK AREA AND AS DEFINED ON DWGS. CM0501 AND CM8001.
- PROPOSED TREES SHALL NOT BE PLANTED WITHIN EASEMENTS, DRIVEWAYS AND SITE TRIANGLES. THEREFORE, THE TREE LOCATIONS SHALL BE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD AS REQUIRED.
- ALL SHADE TREES IN PEDESTRIAN WALKS AREAS SHALL HAVE AN INITIAL LIMBS PRUNED STARTING AT A MINIMUM OF 7 FT. ABOVE FINISHED GRADE.
- ALL TREES SHALL BE MULCHED WITH A THREE INCH (3") MINIMUM DEPTH OF SHREDDED HARDWOOD BARK.
- PLANTS ARRANGED IN CONTINUOUS GROUPINGS SHALL BE SET IN MULCHED BEDS.
- PLANTING DEBRIS SHALL BE REMOVED FROM THE PROPERTY.
- NO HEALTHY TREE THAT IS SPECIAL BY VIRTUE OF HISTORY, UNUSUAL SIZE, OR AGE OR OF RAE SPECIES, SHALL BE REMOVED EXCEPT AS MAY BE REQUIRED FOR PROTECTION OF PUBLIC HEALTH, SAFETY AND WELFARE.
- NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF PLANTING. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT AND REGULAR GROWTH OF PLANTS.
- ALL SHRUBS SPACED 7 FT. O.C. OR CLOSER SHALL BE IN CONTINUOUS MULCHED BEDS.
- SEED ALL DISTURBED AREAS WITH REQUIRED SEED MIX (SEE DWG. CM8501 FOR SEEDING MIX SCHEDULE).
- TREES SHOULD BE PLANTED A MIN. OF FIVE (5) FEET FROM SIDEWALKS UNLESS IN TREE PITS.
- GUY WIRES AND STAKES WILL ONLY BE UTILIZED IF CONDITIONS MERIT AND WILL BE REMOVED BY THE CONTRACTOR AT THE END OF THE GUARANTEE PERIOD.

SEEDING NOTES

- SEED ALL AREAS DISTURBED BY CONSTRUCTION NOT OTHERWISE CONTAINING PLANTING BEDS, SIDEWALKS, BUILDINGS, ETC.
- BEFORE SEEDING, CONTRACTOR SHALL PROVIDE SOIL TESTS AND INCORPORATE NECESSARY SOIL AMENDMENTS PER SOIL TEST RECOMMENDATIONS.
- PERFORM ALL FINISH GRADING, WITHIN AREAS OF DISTURBANCE, NECESSARY TO BRING SITE TO REQUIRED FINISHED ELEVATIONS. FINISH GRADING SHALL CONSIST OF PREPARING SUBGRADE AND SPREADING TOPSOIL READY FOR SEEDING OPERATIONS.
- TOPSOIL SHALL BE UNIFORMLY SPREAD IN DISTURBED AREAS WITH BLADE GRADER, OR BY ANY OTHER APPROVED METHOD, TO A MINIMUM DEPTH OF 6 INCHES TO PERMIT 1 INCH OF SETTLEMENT. CORRECT ANY SURFACE IRREGULARITIES TO PREVENT FORMATION OF LOW SPOTS AND POCKETS THAT WOULD RETAIN WATER. PRIOR TO FINE GRADING, REMOVE ALL EXISTING ANNUAL TYPE VEGETATION.
- SOW SEED AT THE RECOMMENDED SEEDING RATE AS SHOWN IN THE SEEDING MIX SCHEDULE AS NOTED ON EROSION CONTROL PLANS.
- SEED SHALL BE APPLIED APRIL 15TH THRU MAY 31ST OR AUGUST 17TH THRU OCTOBER 15TH.
- ON ALL SLOPES 3:1 OR GREATER, USE AN ORGANIC SOIL STABILIZER SUCH AS 'CON-TACK' OR EQUAL AT THE RATE OF 25 LBS PER 1,000 GALLONS OR AT RATES RECOMMENDED BY THE MANUFACTURER.
- KEEP NEWLY SEEDER GRASS AREAS MOISTENED DURING SEED GERMINATION AND UNTIL THE GRASS COVERS AT LEAST 75% OF THE SEEDER AREA TO A HEIGHT OF 2 TO 3 INCHES.
- ALL AREAS AND SPOTS, WHICH DO NOT SHOW A PROMPT CATCH OF GRASS, SHALL THEN BE RE-SEEDER, AND THE OPERATION REPEATED UNTIL COMPLETE COVERAGE IS OBTAINED.
- SEE DWG. CM8501 FOR SEEDING SPECIFICATIONS AND RATES.

NOTES:

- INSTALL ALUMINUM EDGING 12" ABOVE FINISHED GRADE.
- LOCATE ANCHORING STAKES NO MORE THAN 3 FEET O.C.
- RIVERSTONE GRAVEL SIZE: 1"-3" DIAMETER
- RIVER STONE GRAVEL COLOR: COMBINED HUES OF GRAY, BROWN, BLUE, RED AND TAN
- POSITIVE DRAINAGE SHALL BE PROVIDED FOR THE ALL AREAS. GRADES AWAY FROM BUILDING SHALL BE 2% MIN.



STONE STRIP DETAIL
NOT TO SCALE

LANDSCAPE MAINTENANCE NOTES AND GUARANTEE

PLANT MATERIAL GUARANTEE

ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWO (2) YEARS BY THE CONTRACTOR TO BE IN HEALTHY AND VIGOROUS CONDITION FROM THE DATE OF ACCEPTANCE THE OWNER. ANY AND ALL PLANT MATERIAL THAT DIES OR FAILS TO THRIVE SHALL BE IMMEDIATELY REPLACED WITH LIKE SPECIES. IT IS UNDERSTOOD THAT THE CONTRACTOR WILL PROVIDE ADEQUATE AND TIMELY CARE DURING THE GUARANTEE PERIOD TO THE HIGHEST HORTICULTURAL STANDARDS.

MAINTENANCE

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF SITE VEGETATION DURING THE GUARANTEE PERIOD TO INCLUDE BUT NOT BE LIMITED TO:
- FERTILIZER:** SPRING AND FALL FERTILIZER APPLICATIONS.
 - PRUNING:** PRUNING SHALL BE LIMITED OR REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DIFFERENCES/SAFETY REASONS. PRUNING OF SHRUBS AND TREES SHALL BE LIMITED TO THE PRUNING NECESSARY TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES.
 - PEST CONTROL:** PRE-EMERGENT WEED CONTROL FOR MOWN LAWNS AND SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMENT FOR INSECT INFESTATION AND DISEASE MAY BE APPLIED AND SHALL BE SPECIFIC TO THE PROBLEM.
 - MULCHING:** MULCHING SHALL BE MAINTAINED AT A DEPTH OF 3" IN PLANT BEDS AND AROUND BASE OF TREES.
 - MOWING:** MOWN LAWN SEED MIX SHALL BE MOWN AT REGULAR INTERVALS THROUGHOUT THE GROWING SEASON. GRASS HEIGHT SHOULD NOT EXCEED 4 INCHES BEFORE CUTTING. MOWER BLADES SHALL BE SET AT 3 INCHES UNLESS OTHERWISE DIRECTED.
 - PLANT PROTECTION:** AVOID EXCESS INTRUSION INTO THE ROOT ZONE AREA OF ESTABLISHED PLANTINGS.
 - WATERING:** UNLESS STATED OTHERWISE IN THESE DOCUMENTS, PROVIDE APPROXIMATELY 1-INCH OF RAINFALL/WATER PER WEEK THROUGHOUT THE GROWING SEASON FOR THE FIRST YEAR.

PERENNIAL AND GROUNDCOVER MAINTENANCE

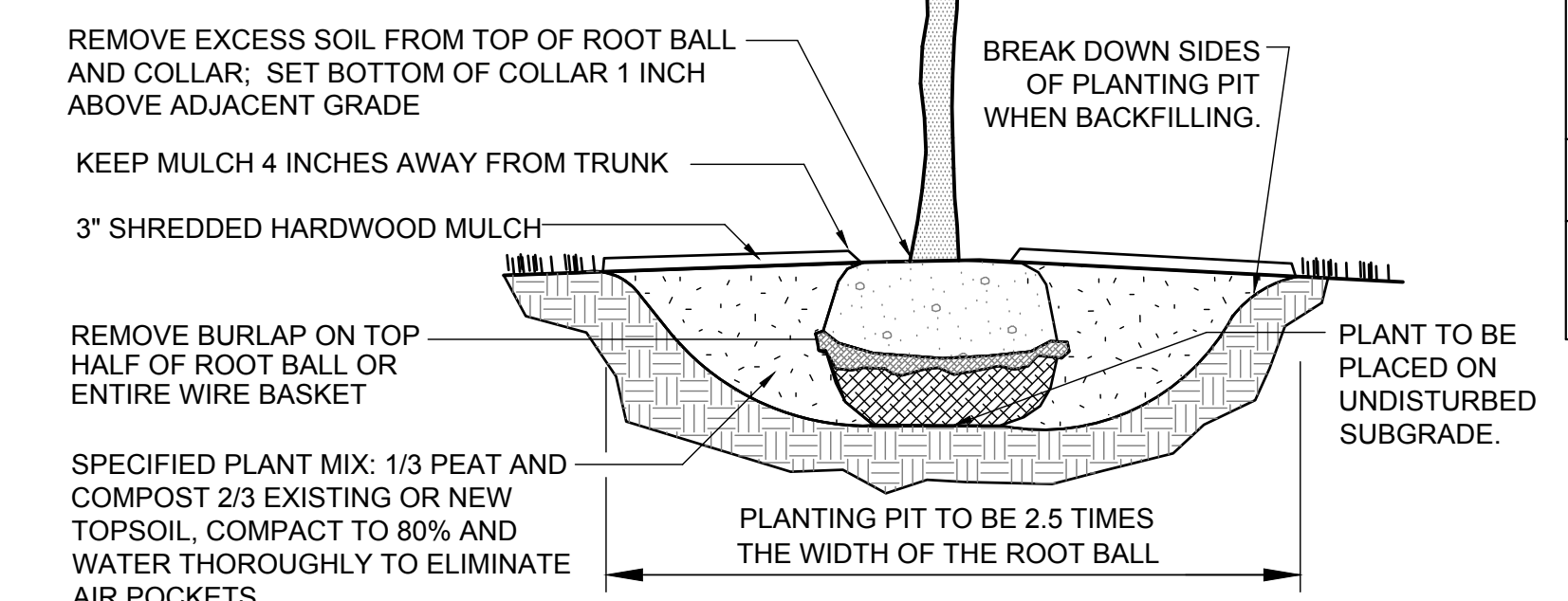
- WEED CONTROL CAN BE A PROBLEM UNTIL THE GROUNDCOVERS/PERENNIALS HAVE SPREAD AND FILLED IN THE AREA. CONTROL OF PERSISTENT, PERENNIAL WEEDS, SUCH AS BERMUDAGRASS AND NUTGRASS SHOULD BE ACHIEVED BEFORE PLANTING. A GRANULAR PRE-EMERGENT HERBICIDE SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS TO ALL BED SURFACES IMMEDIATELY AFTER MULCHING. APPLY ADDITIONAL MULCH AFTER PLANTING TO REPLENISH AS NEEDED TO MAINTAIN A DEPTH OF 3 INCHES.
- FERTILIZER - MOST GROUNDCOVERS WILL BENEFIT FROM AN APPLICATION OF FERTILIZER IN LATE WINTER TO EARLY SPRING. USE 2 TO 4 POUNDS OF A COMPLETE FERTILIZER PER 1,000 SQUARE FEET. WATER OR BRUSH FERTILIZER OFF THE FOLIAGE AFTER BROADCASTING.

TREE PROTECTION NOTES

- THOSE TREES WHICH ARE WITHIN TWENTY (20) FEET OF ANY PROPOSED EXCAVATION OR GRADING OPERATION, OR IN ANY OTHER LOCATION DEEMED APPROPRIATE BY THE ENGINEER, SHALL BE PROTECTED BY INSTALLING AND MAINTAINING A FENCE AT THE DRIP LINE.
- NO BOARDS OR OTHER MATERIAL SHALL BE NAILED TO TREES DURING CONSTRUCTION.
- HEAVY EQUIPMENT OPERATORS ARE PROHIBITED FROM DAMAGING EXISTING TREE TRUNKS AND ROOTS. FEEDER ROOTS SHALL NOT BE CUT CLOSER THAN TWENTY (20) FEET FROM TREE TRUNKS UNLESS APPROVED BY THE ENGINEER.
- PROTECTIVE DRAINABLE MATTINGS AND A MINIMUM 4" SHREDDED MULCH SHALL BE APPLIED TO THE ENTIRE ROOT AREAS WHERE HEAVY EQUIPMENT CAN NOT AVOID ROOTS.
- TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED FROM FURTHER DAMAGE BY BEING TREATED IMMEDIATELY.
- TREE LIMBS DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY PRUNED AND TREATED IMMEDIATELY.
- DAMAGED TREES SHALL BE FERTILIZED TO AID IN THEIR RECOVERY.
- CONSTRUCTION DEBRIS SHALL NOT BE DISPOSED OF NEAR OR AROUND TREES.

NOTES:

- USE DIGGING FORK NOT SPADE TO PREVENT GLAZING OF PIT EDGES
- PRUNE DEAD AND DAMAGED BRANCHES IN ACCORDANCE WITH RECOGNIZED HORTICULTURAL PRACTICES.
- DO NOT PRUNE LEADER.
- SET PLANTS PLUMB AND FACE TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT AREAS.
- COMPLETELY REMOVE ALL TREE WRAP AFTER INSTALLATION
- ONLY STAKE TREES OVER 3" CALIBER OR ON SLOPES GREATER THAN 4:1



DECIDUOUS TREE PLANTING
NOT TO SCALE



HUGH J. DOUGHERTY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE34634
Hugh Dougherty

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RELIEF FIRE COMPANY NO. 1
17 PINE STREET AND 23 TAX MAP SHEET 25
BLOCK 88, LOTS 4, 5, 10, 11, 12
TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY

LANDSCAPE PLAN
MOUNT HOLLY FIRE DISTRICT NO. 1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060

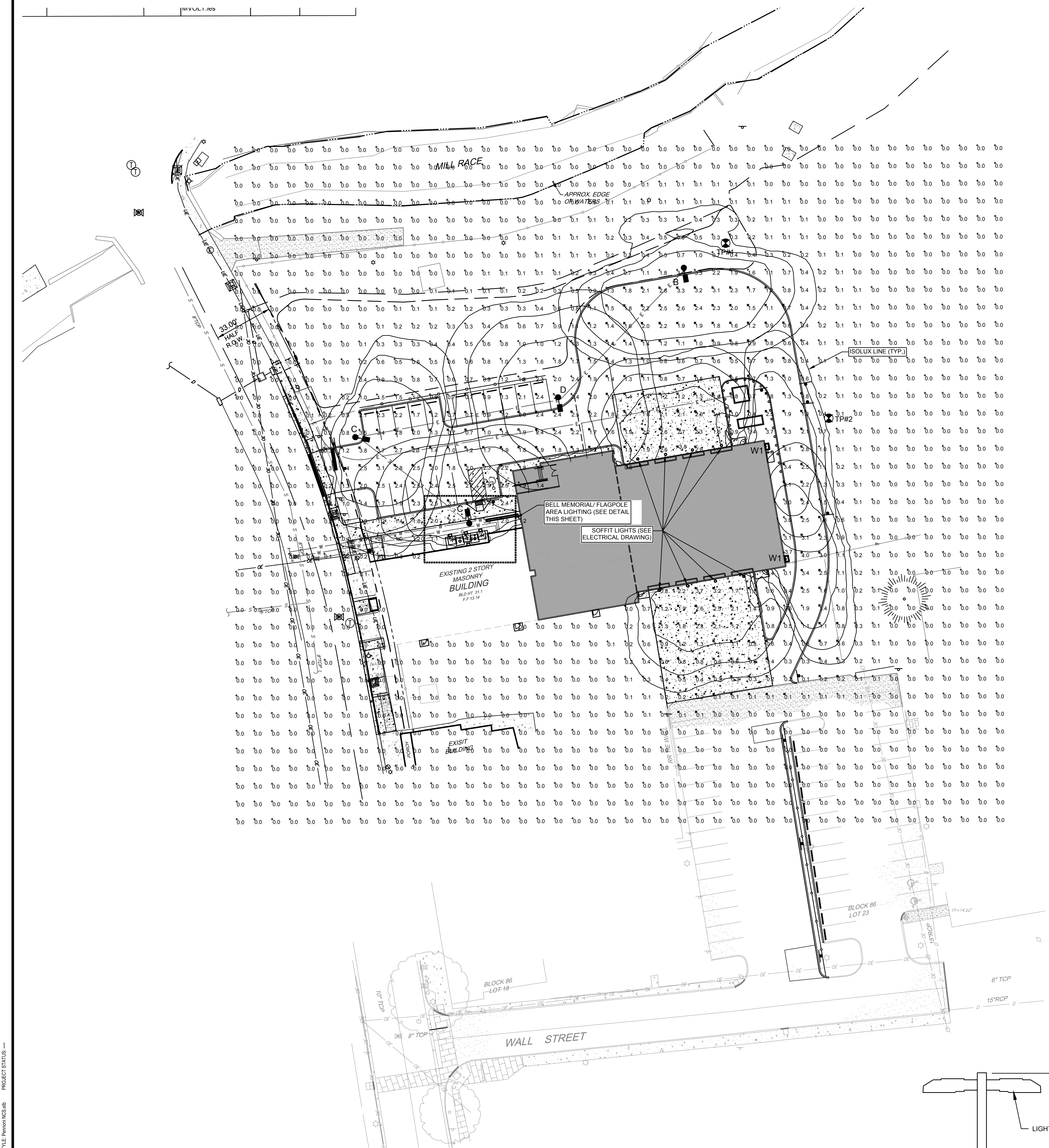
DATE	NO.	REVISIONS
08/26/2010	10	ISSUED FOR BIDDING
07/09/2010	9	BURL. CNTY. S.C.D. RESUBMISSION
07/19/2010	8	BMP PLANS
07/19/2010	7	PERE COUNTY PLANNING BOARD ENGINEER
07/19/2010	6	PER NURSEY COMMENTS
07/19/2010	5	BURL. CNTY. PER SUBMISSION REBUBMISSION
07/19/2010	4	NURSEY AND GREENWICHES REBUBMISSION
07/19/2010	3	NURSEY AND GREENWICHES REBUBMISSION
07/19/2010	2	BURL. CNTY. PER SUBMISSION
07/19/2010	1	NURSEY SUBMISSION

DATE	NO.	REVISIONS
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07/19/2010	2	BURL. CNTY. PER SUBMISSION
07/19/2010	1	NURSEY SUBMISSION

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PROJECT: MHFC1500
DATE: AUGUST 18, 2017
DRAWING SCALE: 1"=30'
DRAWN BY: JRB
APPROVED BY: HUD

CM2001
SHEET 7 OF 14



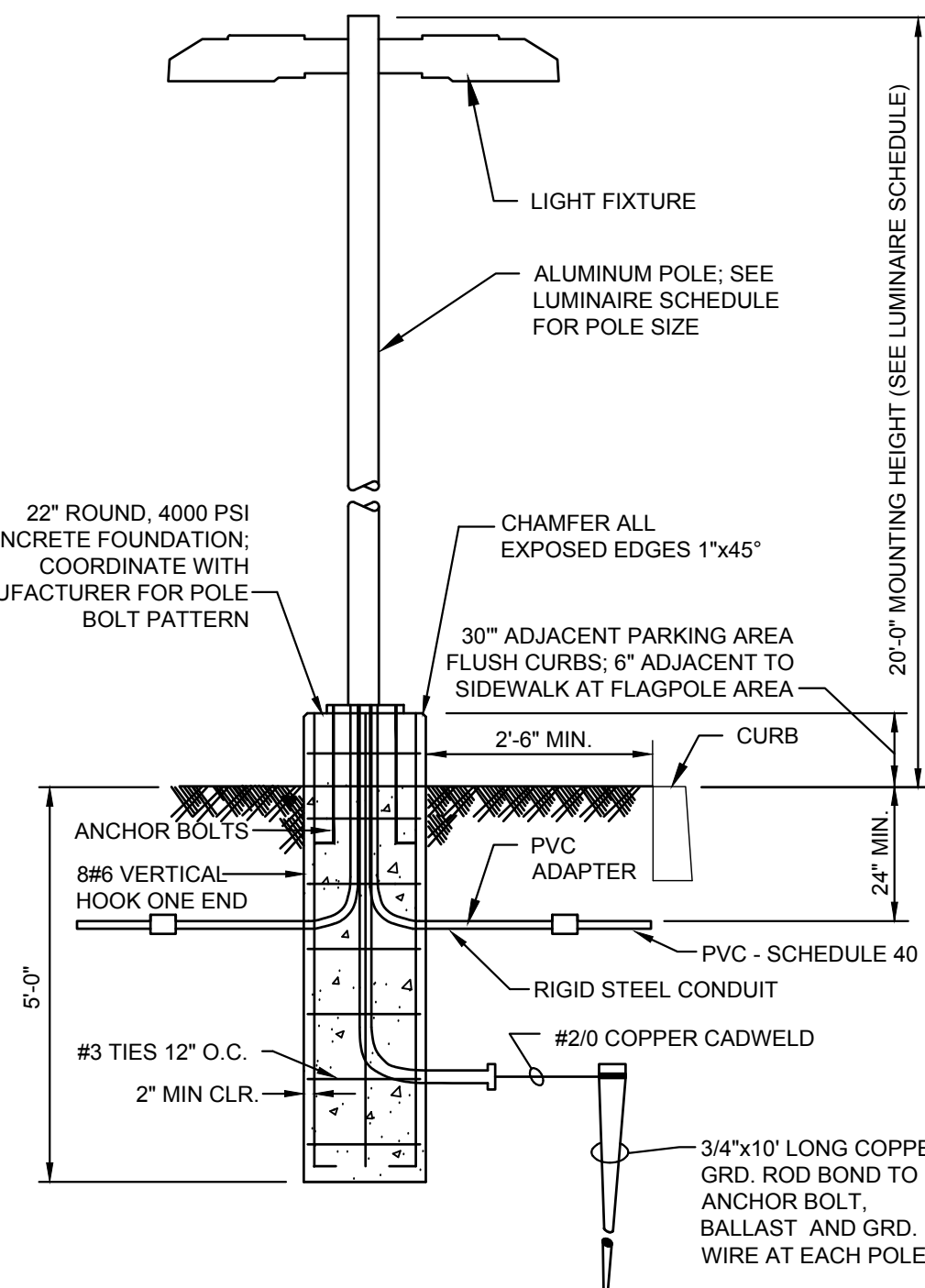
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	File Name	Lumens Per Lamp	Light Loss Factor	Wattage
	B	1	Lithonia Lighting	DSX1_LED_P3_40K_T3M_MVOLT	DSX1 LED P3 40K T3M MVOLT	LED	1	DSX1_LED_P3_40K_T3M_MVOLT.ies	12214	0.95	102
	C	2	Lithonia Lighting	DSX1_LED_P3_40K_T4M_MVOLT_HS	DSX1 LED P3 40K T4M MVOLT with house-side shield	LED	1	DSX1_LED_P3_40K_T4M_MVOLT_HS.ies	8552	0.95	102
	D	1	Lithonia Lighting	DSX1_LED_P3_40K_T5M_MVOLT	DSX1 LED P3 40K T5M MVOLT	LED	1	DSX1_LED_P3_40K_T5M_MVOLT.ies	13055	0.95	102
	W1	2	Lithonia Lighting	DSXW1_LED_20C_1000_40K_T2M_MVOLT	DSXW1 LED W1 (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA	LED	1	DSXW1_LED_20C_1000_40K_T2M_MVOLT.ies	7373	0.95	73.2

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	X	1.6 fc	4.1 fc	0.1 fc	41.0:1	16.0:1
Site	+	0.4 fc	4.2 fc	0.0 fc	N/A	N/A

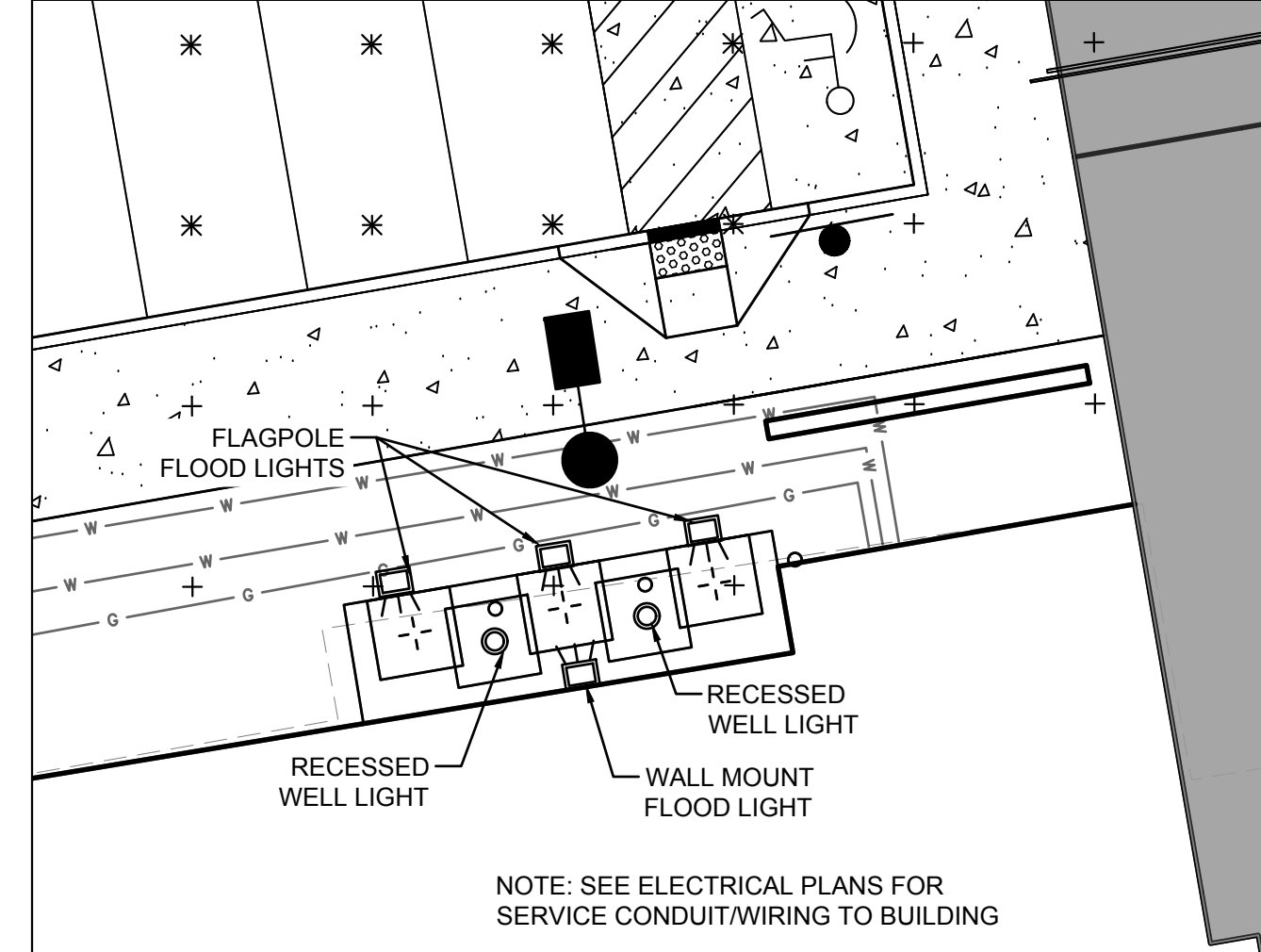
Note
1. Fixtures Mounted at 20' (Pole) and 15' (Wall)
2. Calculations Taken at Grade
3. Calculations are estimations based on the information provided and may vary with actual conditions

- LIGHTING NOTES:**
- SEE ELECTRICAL PLANS FOR ALL CONDUIT LOCATIONS, SIZING AND CABLE INFORMATION.
 - ALL OUTDOOR LIGHTING NOT ESSENTIAL FOR SAFETY PURPOSES SHALL BE ACTIVATED BY AUTOMATIC CONTROL DEVICES AND TURNED OFF DURING NON-OPERATING HOURS.

LIGHT POLE FOUNDATION DETAIL
NTS



FLAGPOLE/BELL AREA LIGHTING DETAIL
SCALE 1" = 10'



D-Series Size 1 LED Area Luminaire

Specifications
EPA: 1.08 ft²
Length: 33"
Width: 13.34"
Height: 7.12"
Weight (max): 27 lbs

Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability. All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency. This luminaire is A+ Certified when ordered with DTL controls marked by a shaded background. DTL, DLL equipped luminaires meet the A+ specification for luminaire to photometric interoperability. This luminaire is part of an A+ Certified solution for ROAM™ or XPhon™. Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background.

To learn more about A+, visit www.energybrands.com/a+.

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately. See Product Link to DTL, DLL.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DBDXD

Series	LEDs	Power/Current	Color Temperature	Distribution	Height	Mounting	Shipped included
DSX1 LED	DIC 10128 (4000K)	100W 350mA	40K	T3M Type III beam	120"	SPA	SPA Spare part mounting
DSX1 LED	DIC 20128 (4000K)	200W 700mA	40K	T3M Type III beam	240"	SPA	SPA Spare part mounting
DSX1 LED	DIC 30128 (4000K)	300W 1050mA	40K	T3M Type III beam	480"	SPA	SPA Spare part mounting

D-Series Size 1 LED Wall Luminaire

Specifications
Width: 13.34"
Depth: 10.7"
Height: 6.38"
Weight: 12 lbs

Back Box (BBW, ELCW)
Width: 13.34"
Depth: 10.7"
Height: 6.38"
Weight: 5 lbs

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DBDXD

Series	LEDs	Power/Current	Color Temperature	Distribution	Height	Mounting	Shipped included
DSXW1 LED	DIC 10128 (4000K)	100W 350mA	40K	T3M Type III beam	120"	DBDXD	DBDXD Spare part mounting
DSXW1 LED	DIC 20128 (4000K)	200W 700mA	40K	T3M Type III beam	240"	DBDXD	DBDXD Spare part mounting
DSXW1 LED	DIC 30128 (4000K)	300W 1050mA	40K	T3M Type III beam	480"	DBDXD	DBDXD Spare part mounting

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POLE MOUNT FIXTURE (A-C)

Lumière BOCA 696

LED / Halogen Ground-mount Recessed

Top Product Features

- Adjustable beam: 22° tilt, 360° rotation
- 12.25" and 41" beam spread options
- 2700K, 3000K, 4000K, 5000K and Amber, dimmable
- IP67 thermoplastic compression molded recessed housing
- Suitable for indoor or outdoor use

Product Certification

- IP67
- UL
- ETL
- CE
- SERAA
- SERASA

RECESSED WELL LIGHT FIXTURE

WALL MOUNT FIXTURE (W1 AND W2)

Lithonia Lighting RSS

Anchor Base Poles

ROUND STRAIGHT STEEL

FEATURES & SPECIFICATIONS

WEATHER RESISTANT - Round straight steel anchor base pole for up to 10' mounting height. This pole provides a robust yet effective option for mounting lights and fixtures.

CONSTRUCTION - Pole shaft with 1.75" wall thickness and a neck of 1.75" wall thickness with a 10" diameter at the top. A 2" diameter neck at the top provides for easy installation. The pole is finished with a powder-coat finish. Shaft wall thickness of 1.75" and 2.5" are available with other pole diameters.

Base Cap - Two piece ABS plastic fly base cap with each pole assembly. Additional base cap options are available upon factory request. Options include fabricated two piece steel and heavy duty two piece cast aluminum fly base cap. All base caps are finished to match pole.

Anchor Base Feet - Anchor base is fabricated from hot rolled carbon steel plate that conforms with ASTM A36. Anchor base conforms to ASTM F1554 Grade 55 and is pre-painted with two coats of zinc rich primer. Both have an 1.25" diameter. All anchor bolts are hot dip galvanized minimum 12" nominal size. Anchor bolts are made of steel rod having a maximum yield strength of 55,000 psi and a yield strength of 75,000 psi minimum.

Hardware - All structural hardware are high-strength galvanized carbon steel. All non-structural hardware are galvanized or zinc plated carbon steel or stainless steel.

Finish - Standard powder coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Custom finishes include Sandstone, Charcoal Gray, Teal Green, Bright Red and Steel Blue colors. Anodized Aluminum and Special finishes are available by quote and include, but are not limited to, hot dip galvanized, flake over for flake galvanized, A4, Color, Clear Coat and Electrocoat finishes. Factory applied primer paint finish is available for customer field paint applications.

WARRANTY - 1 year limited warranty. Complete warranty terms located at: www.lithonia.com/usa/Systems/Forms/and_conditions.aspx

NOTE: Actual performance may differ as a result of real-world environment and application. Specifications subject to change without notice.

RECESSED WELL LIGHT FIXTURE

WALL MOUNT FIXTURE (W1 AND W2)

Lumark NIGHT FALCON

DESCRIPTION

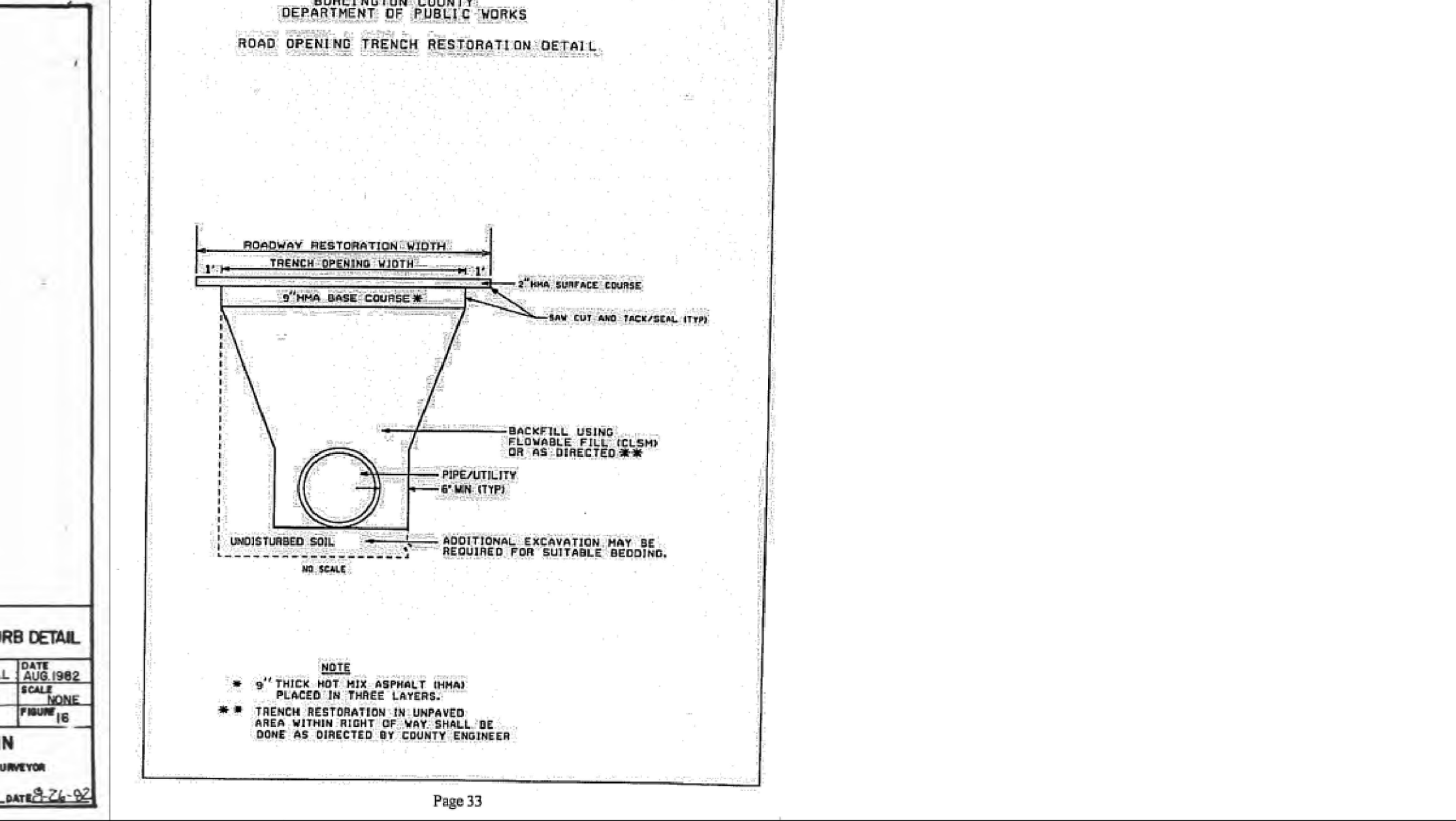
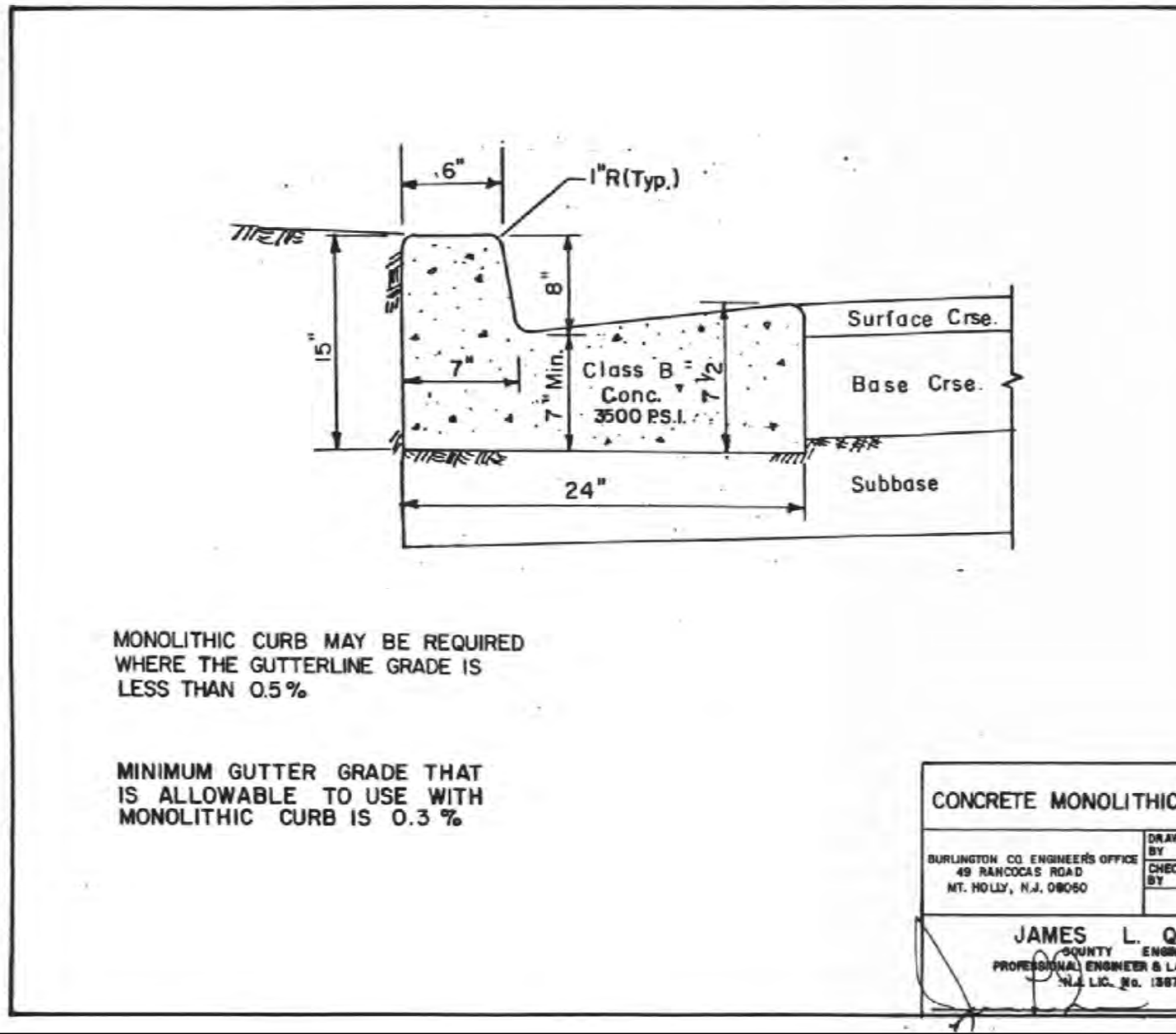
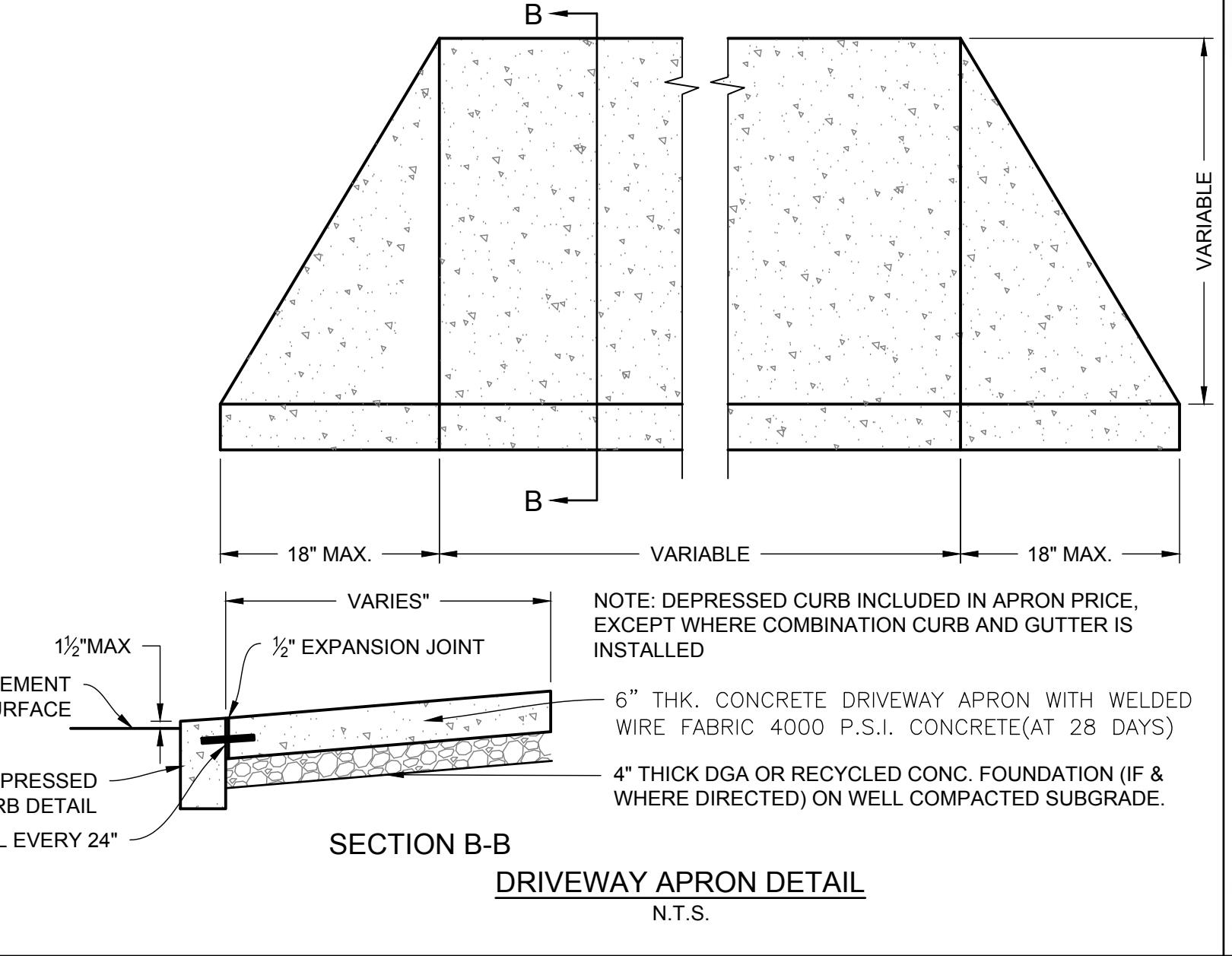
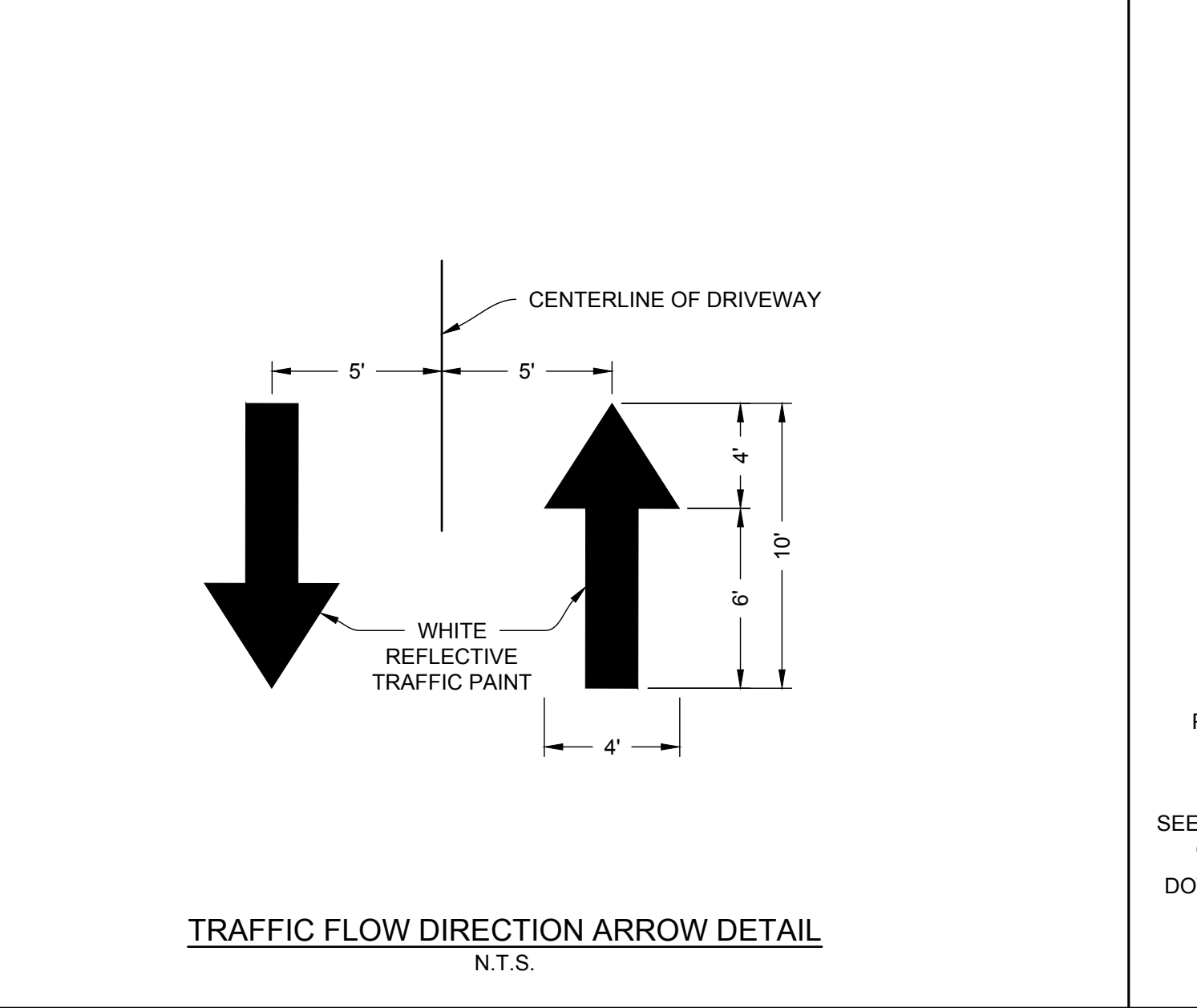
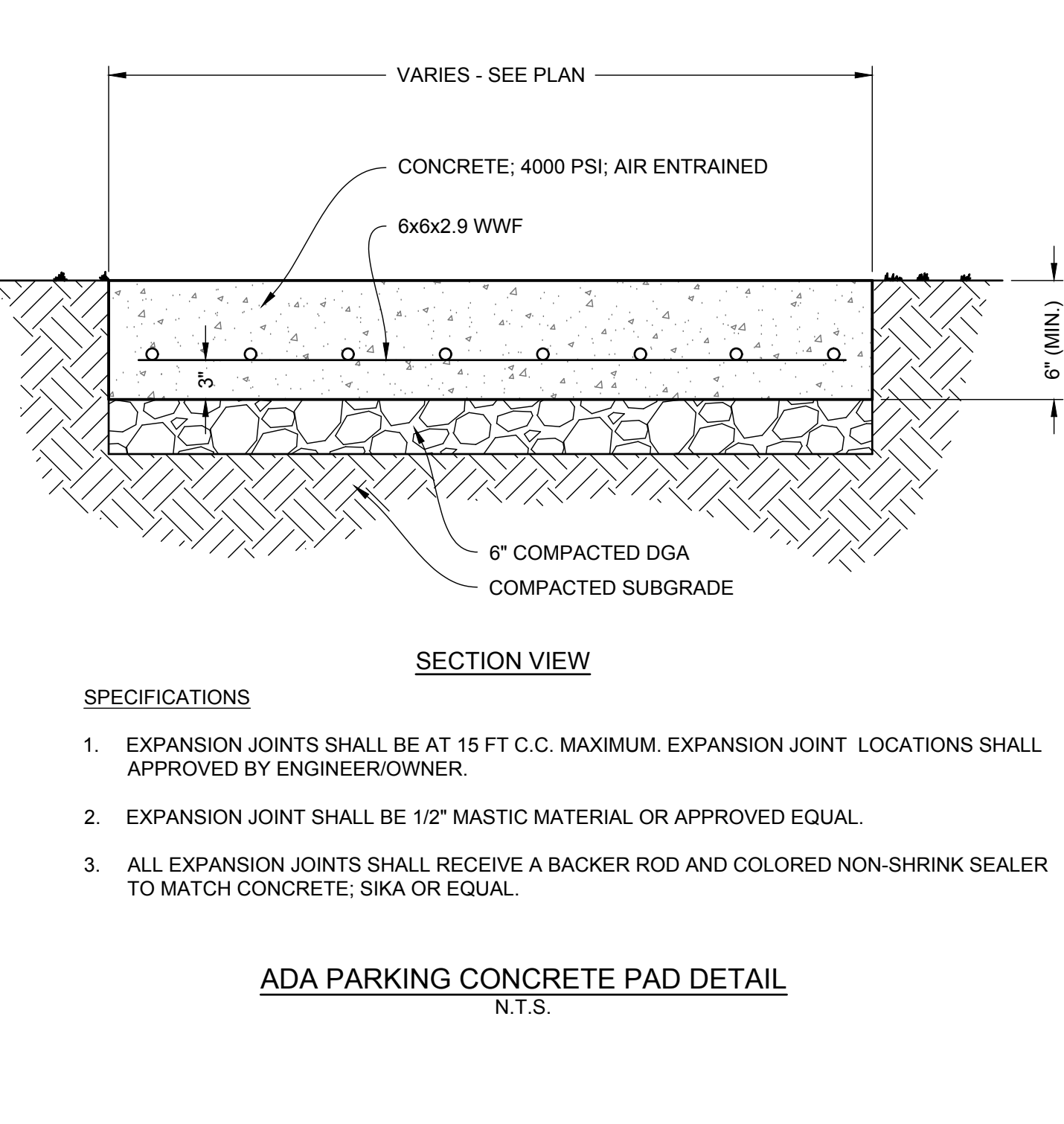
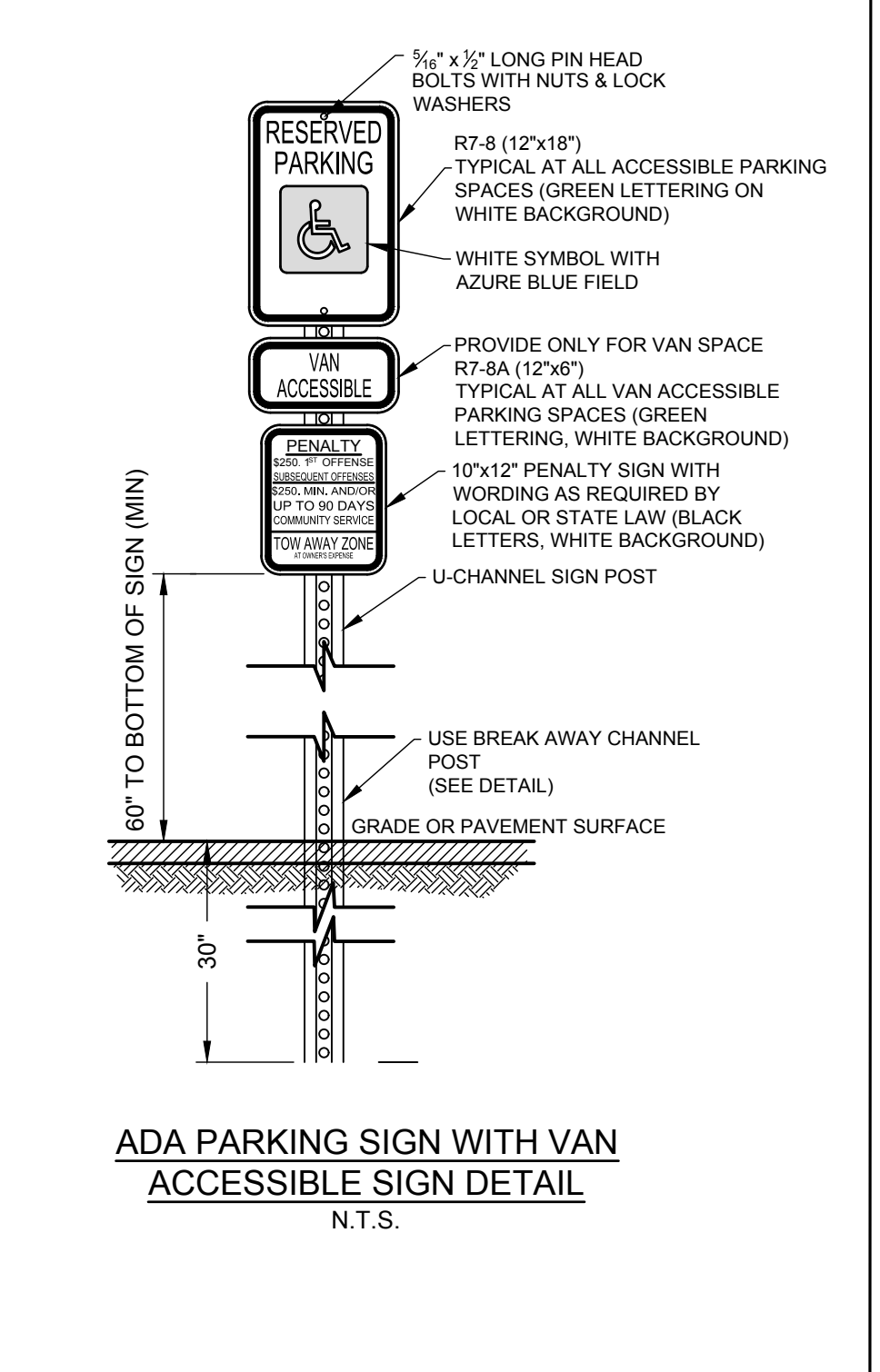
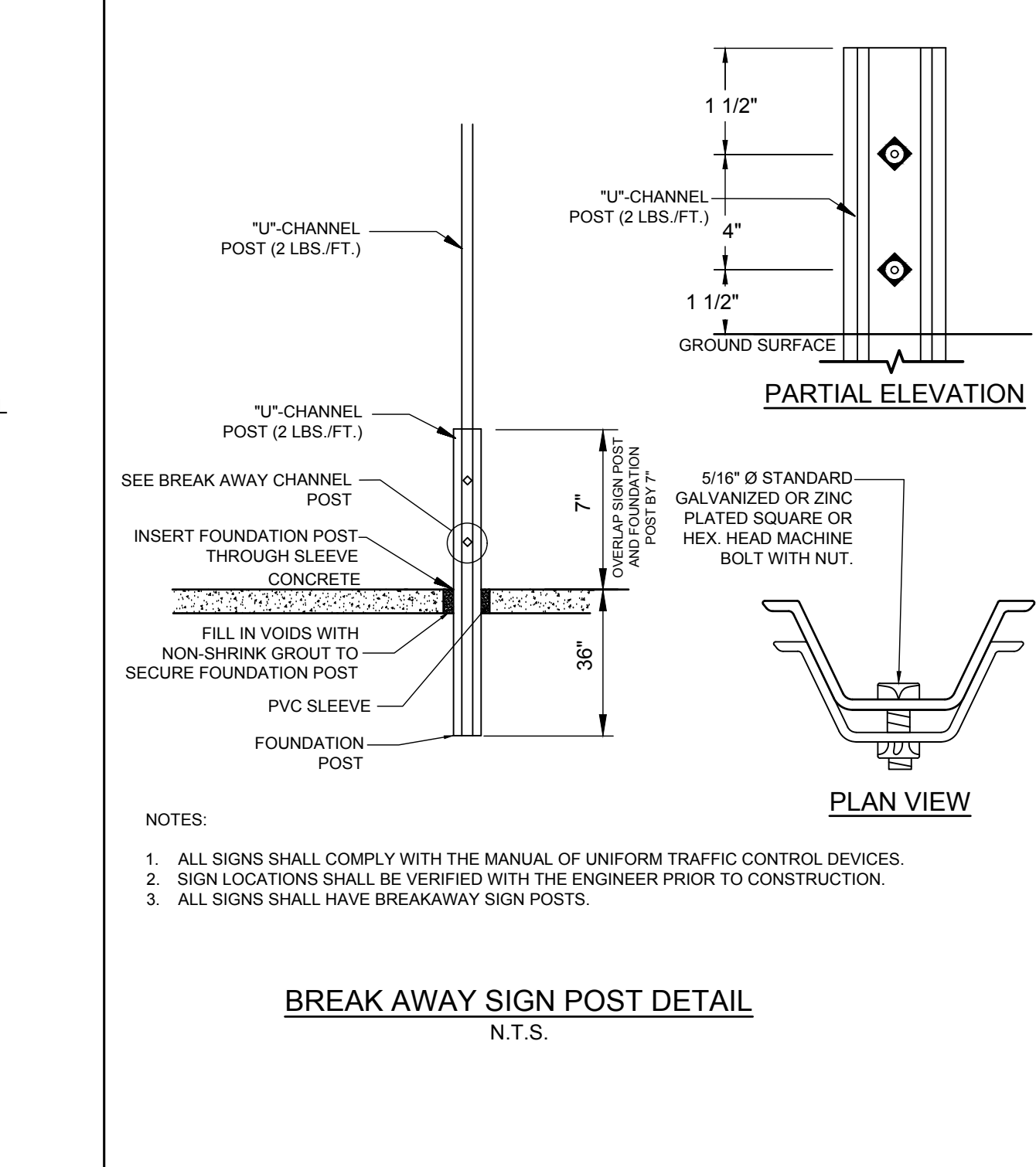
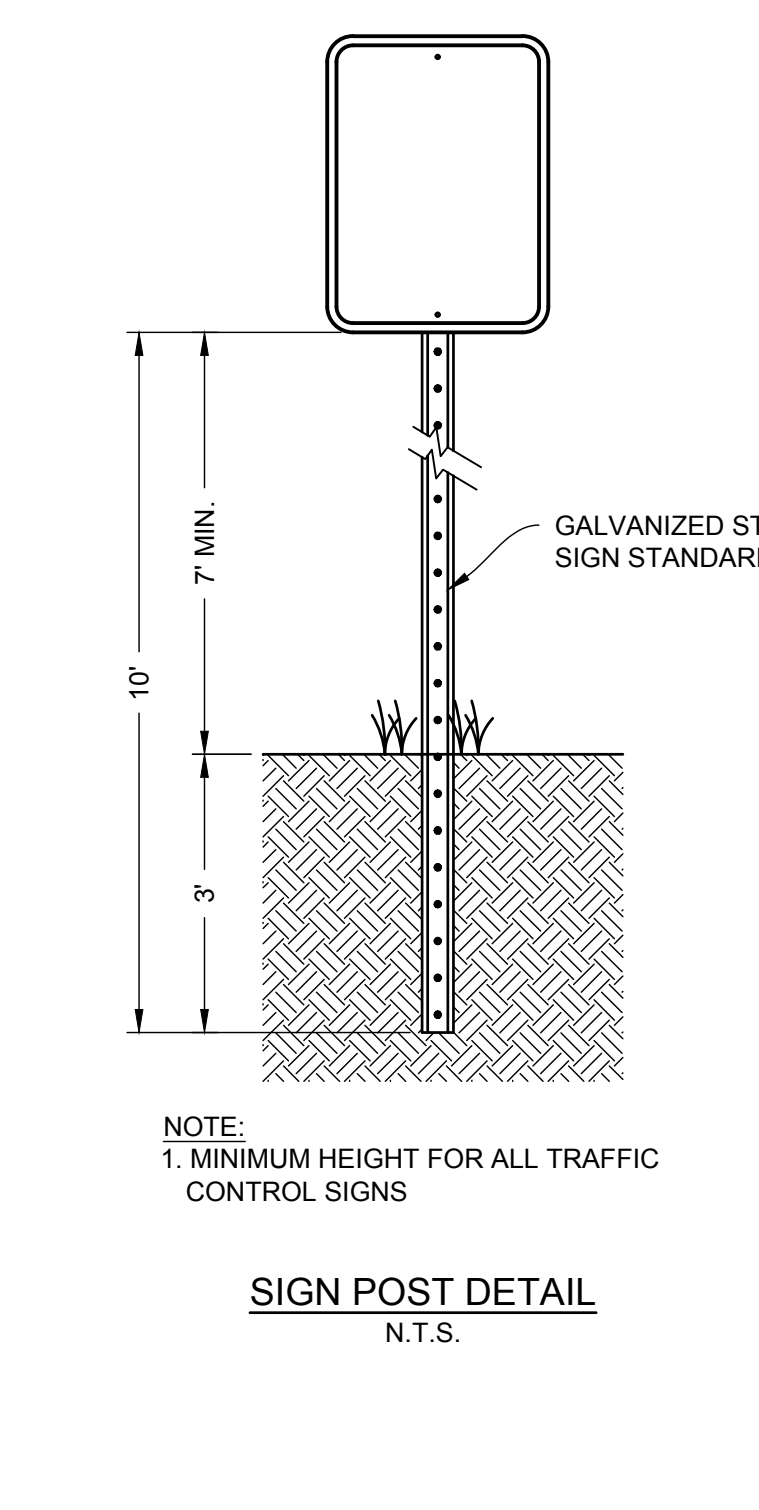
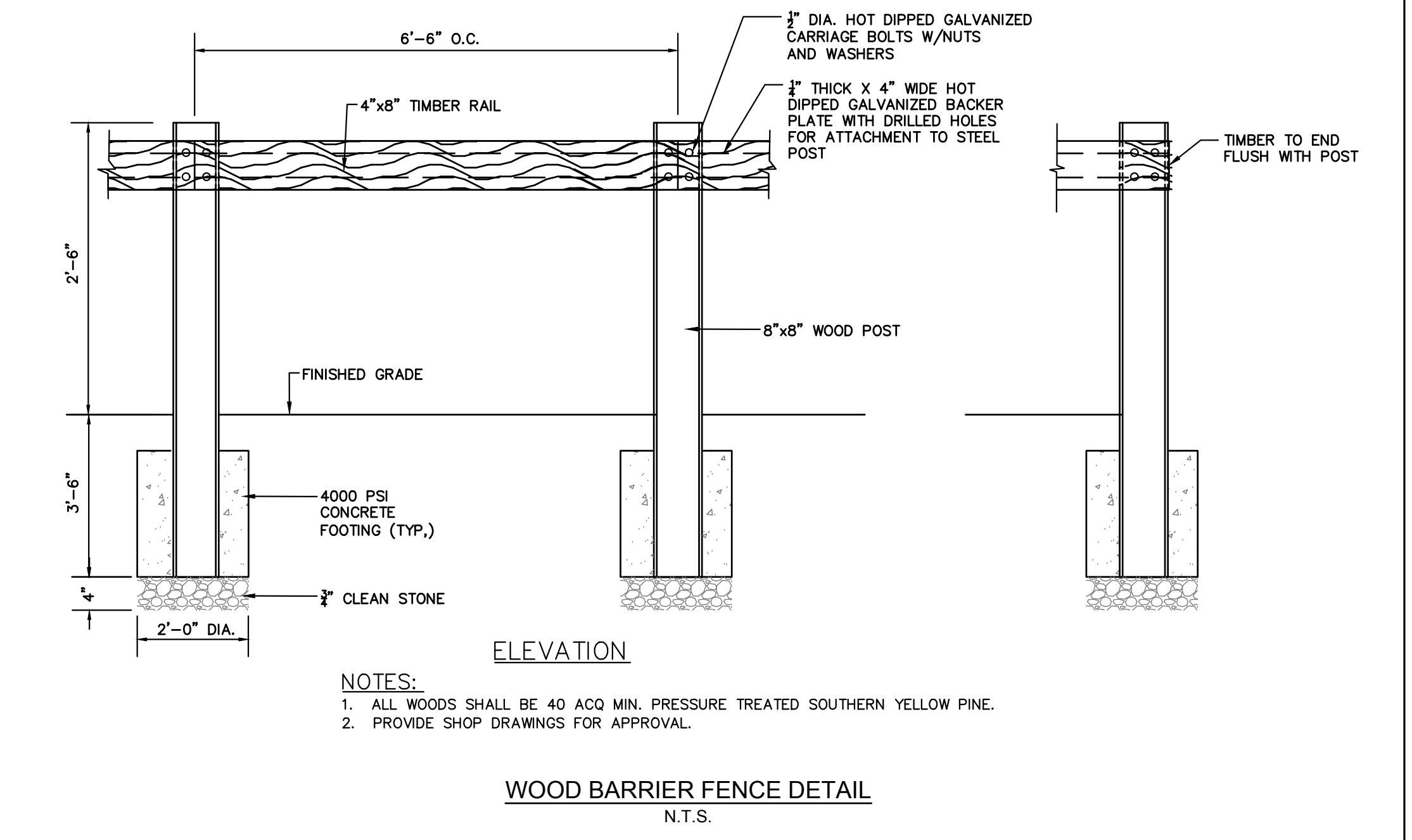
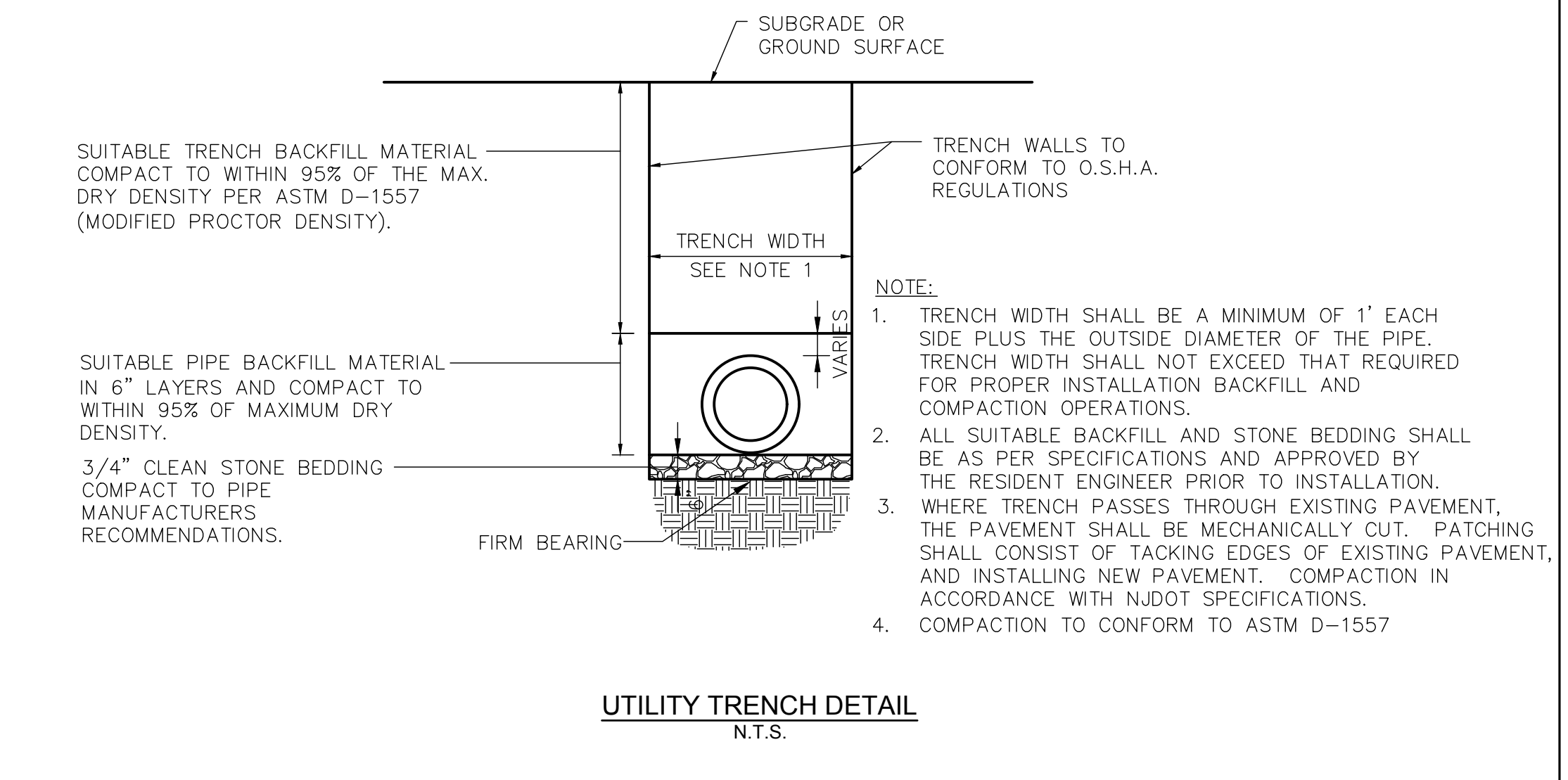
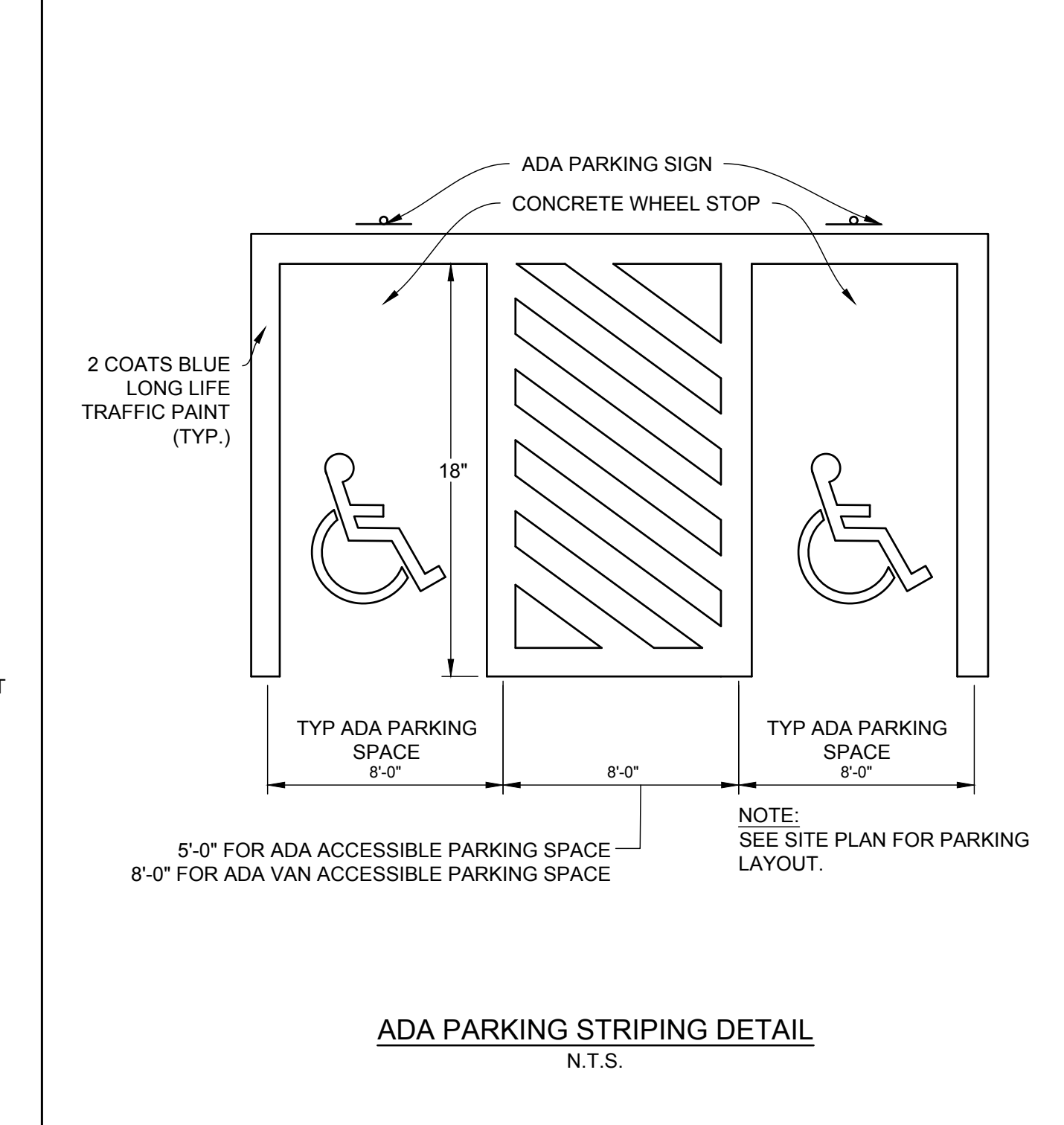
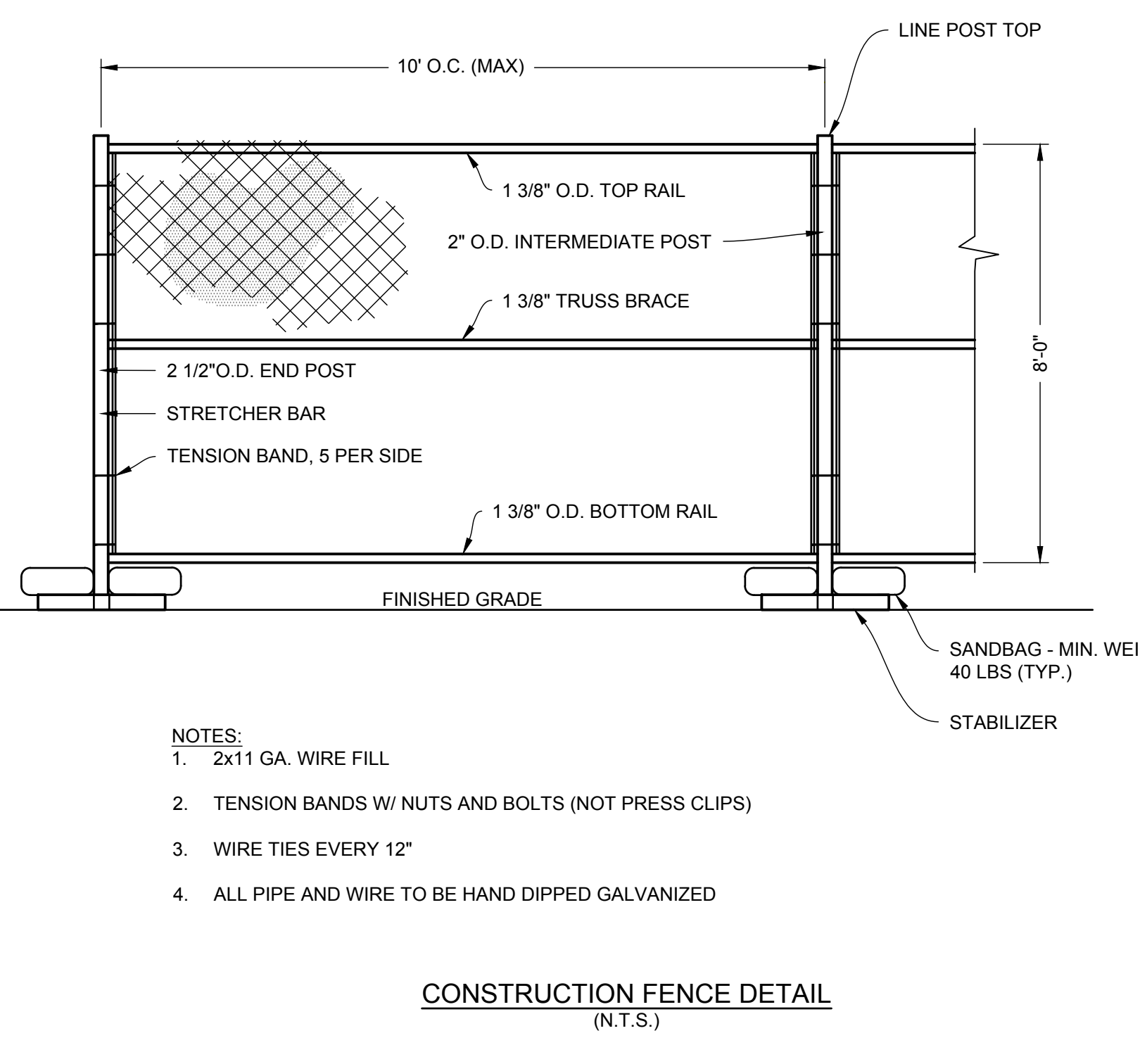
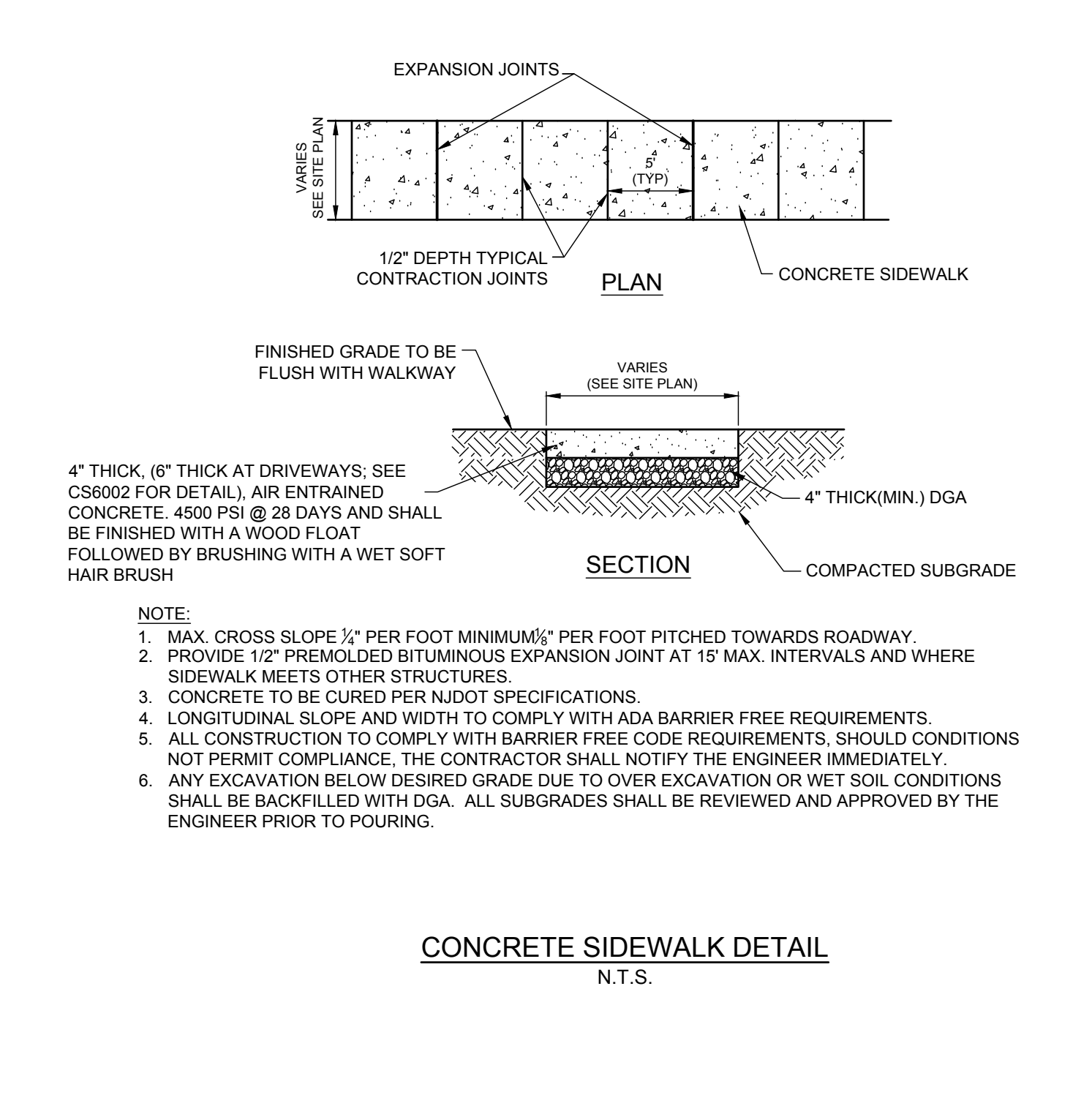
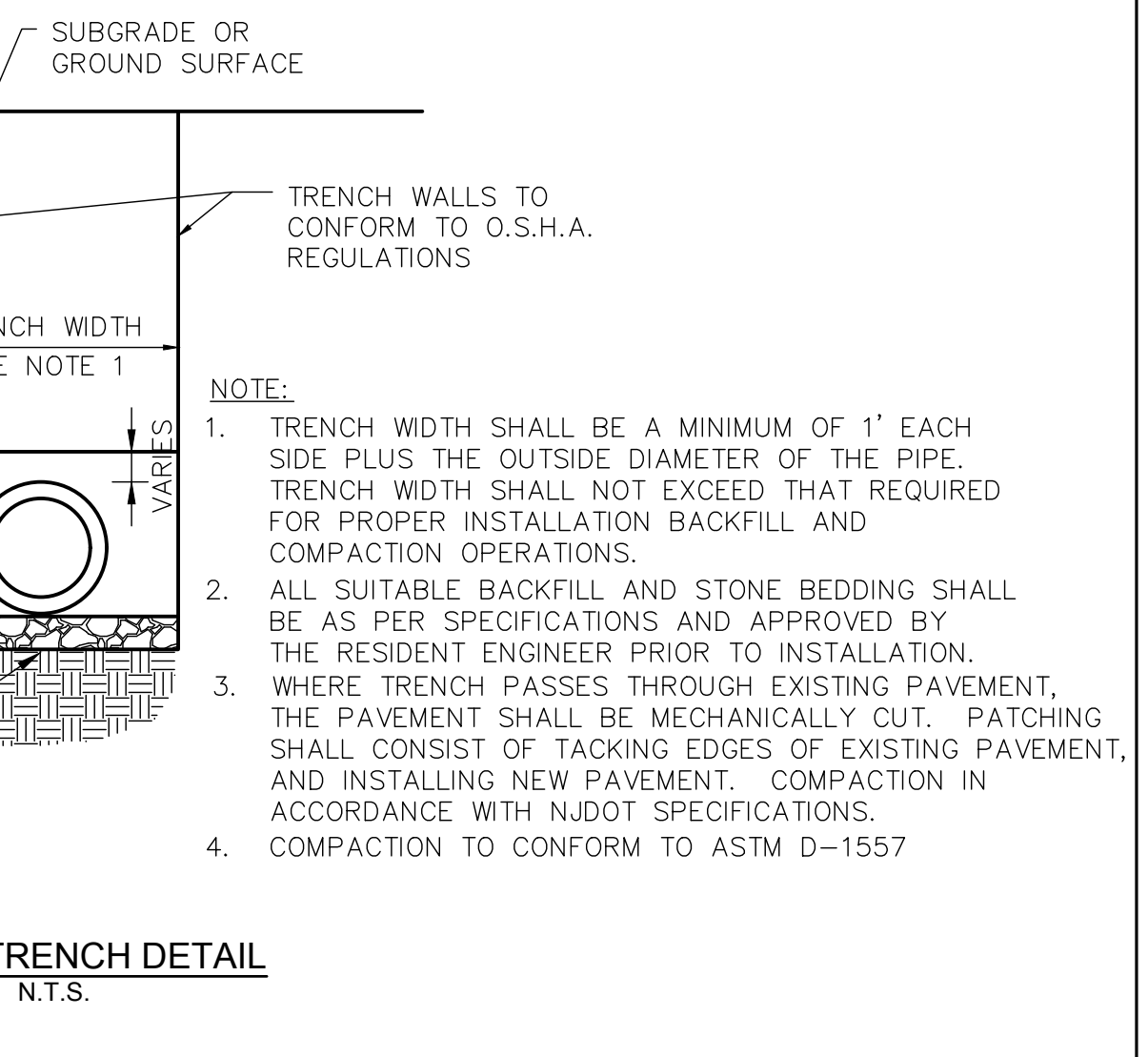
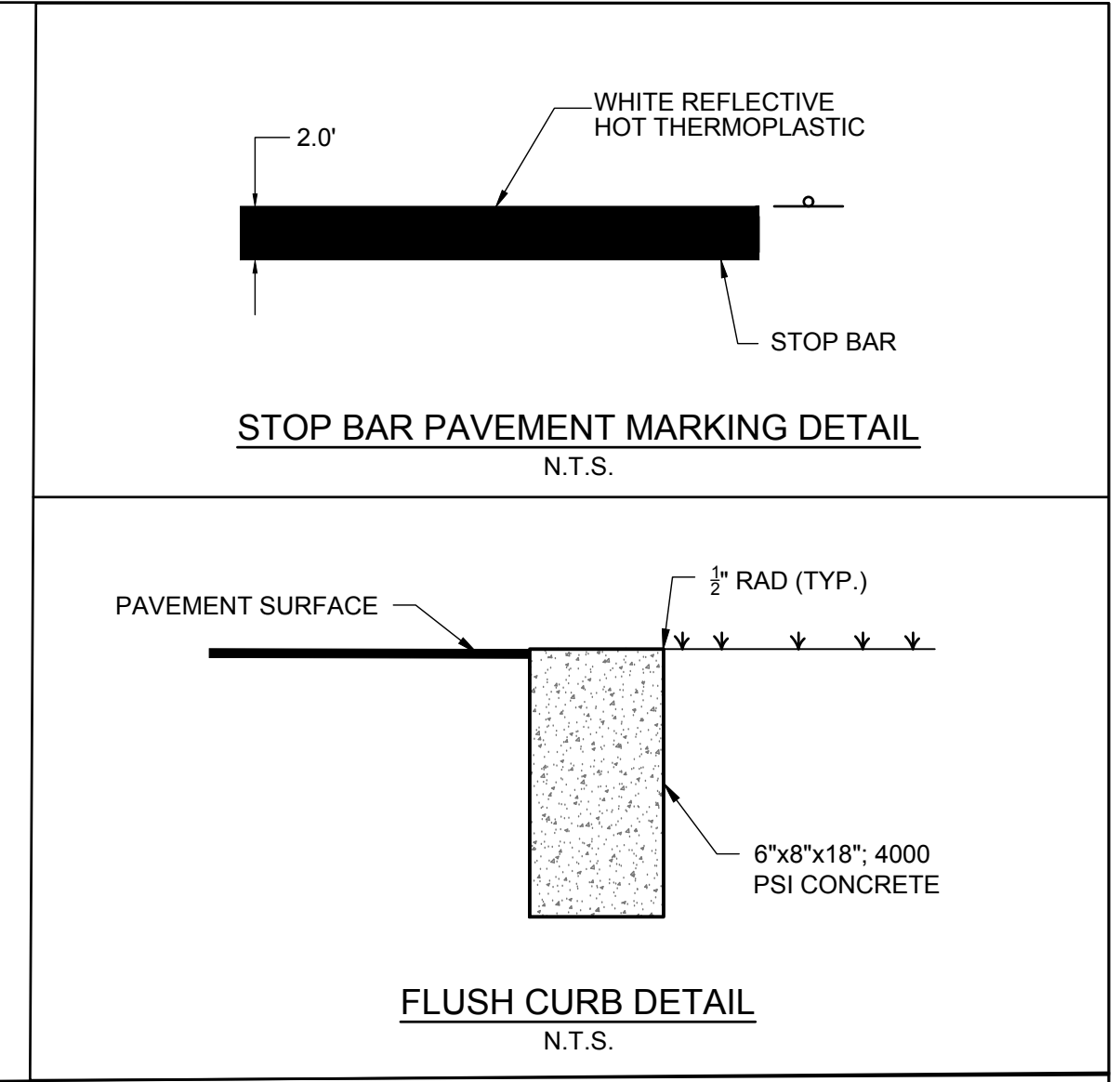
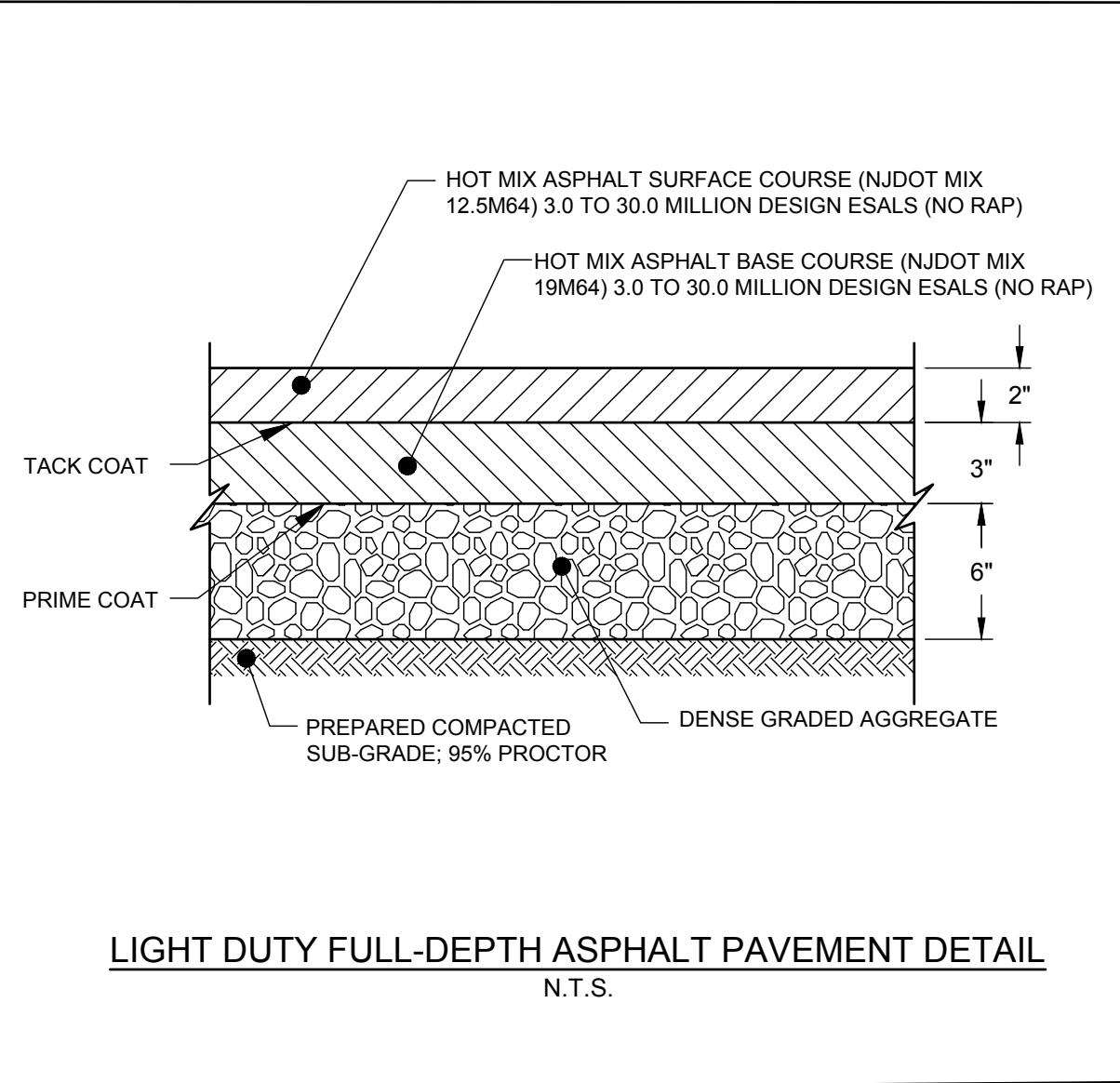
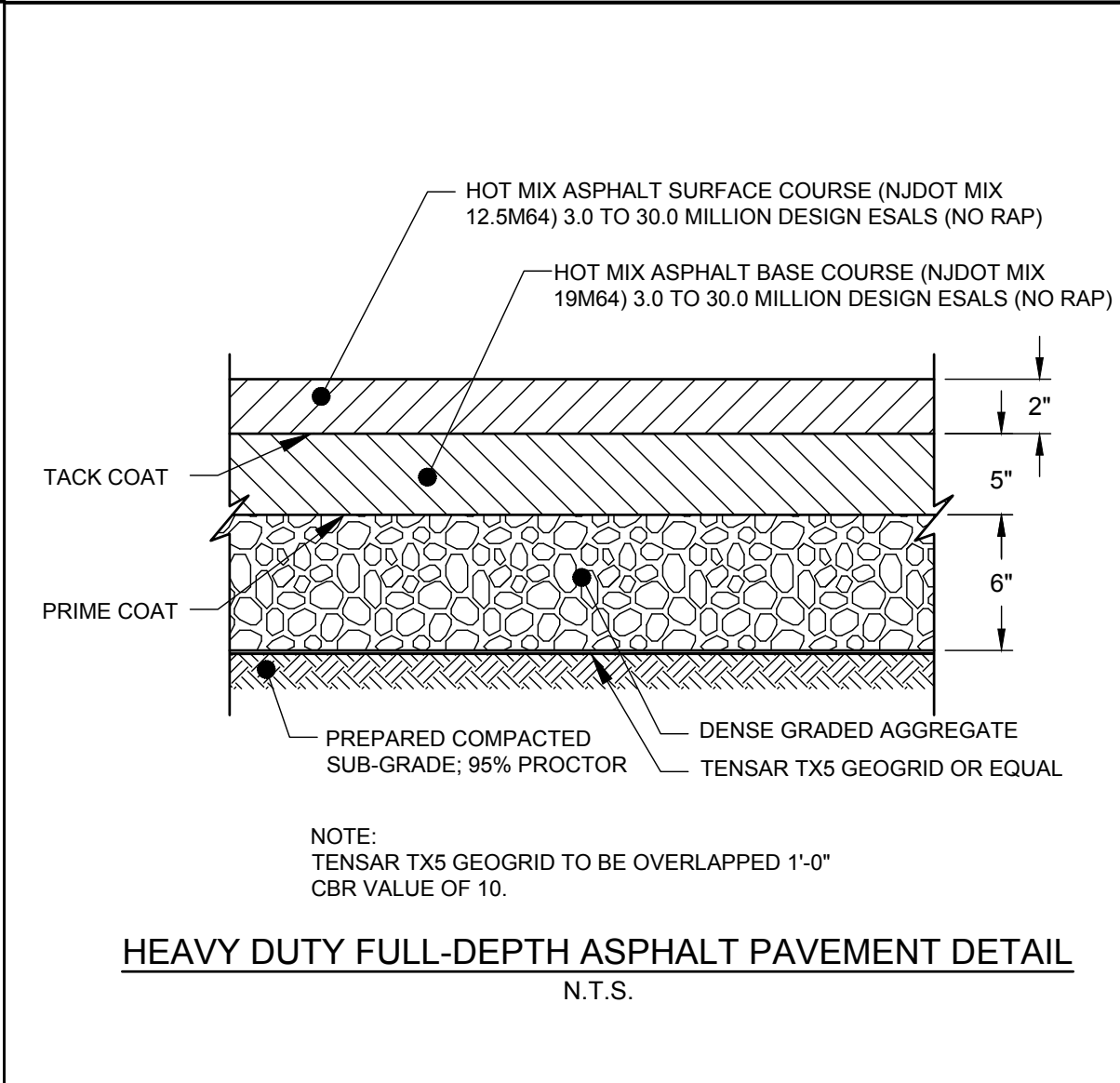
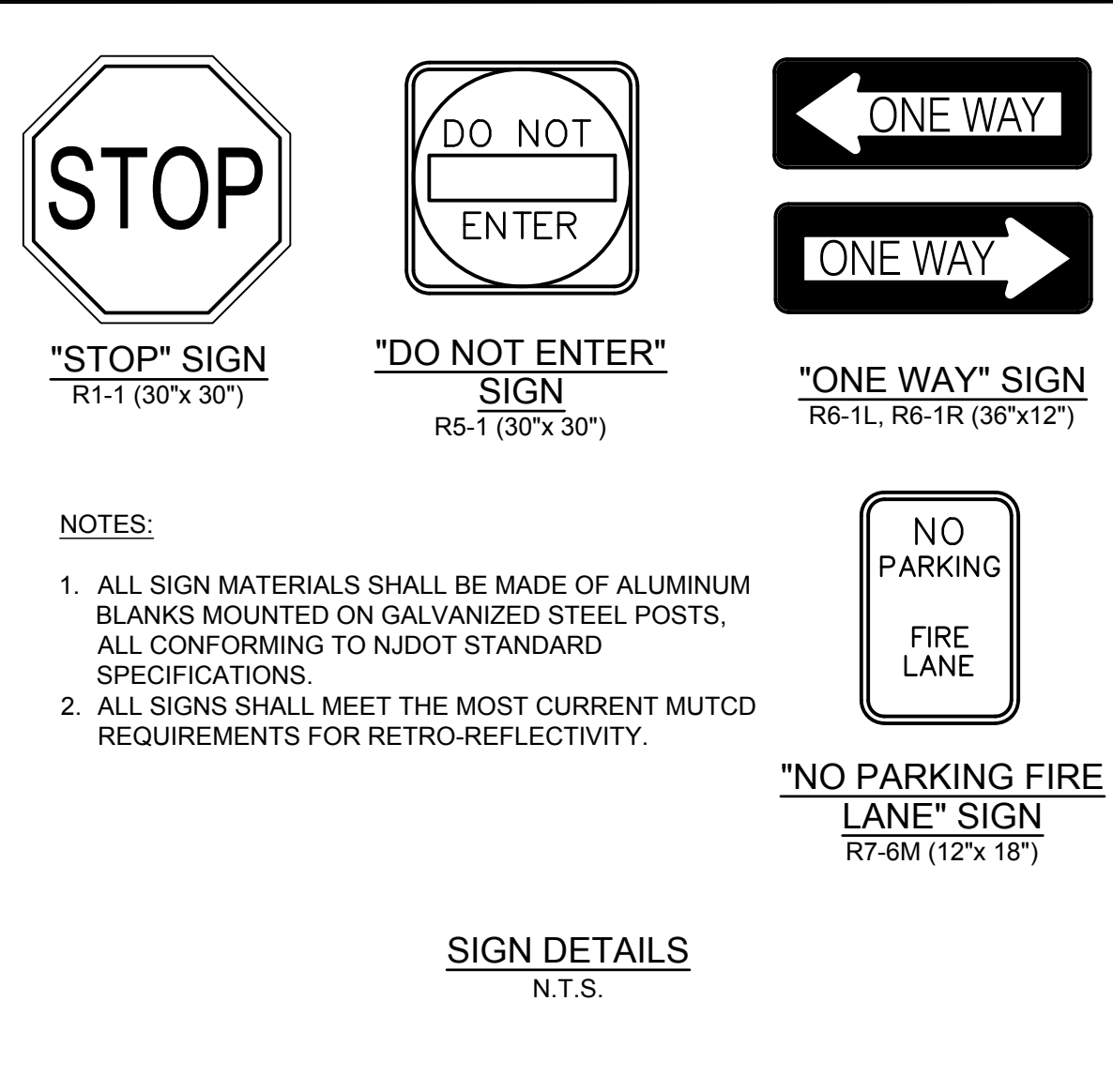
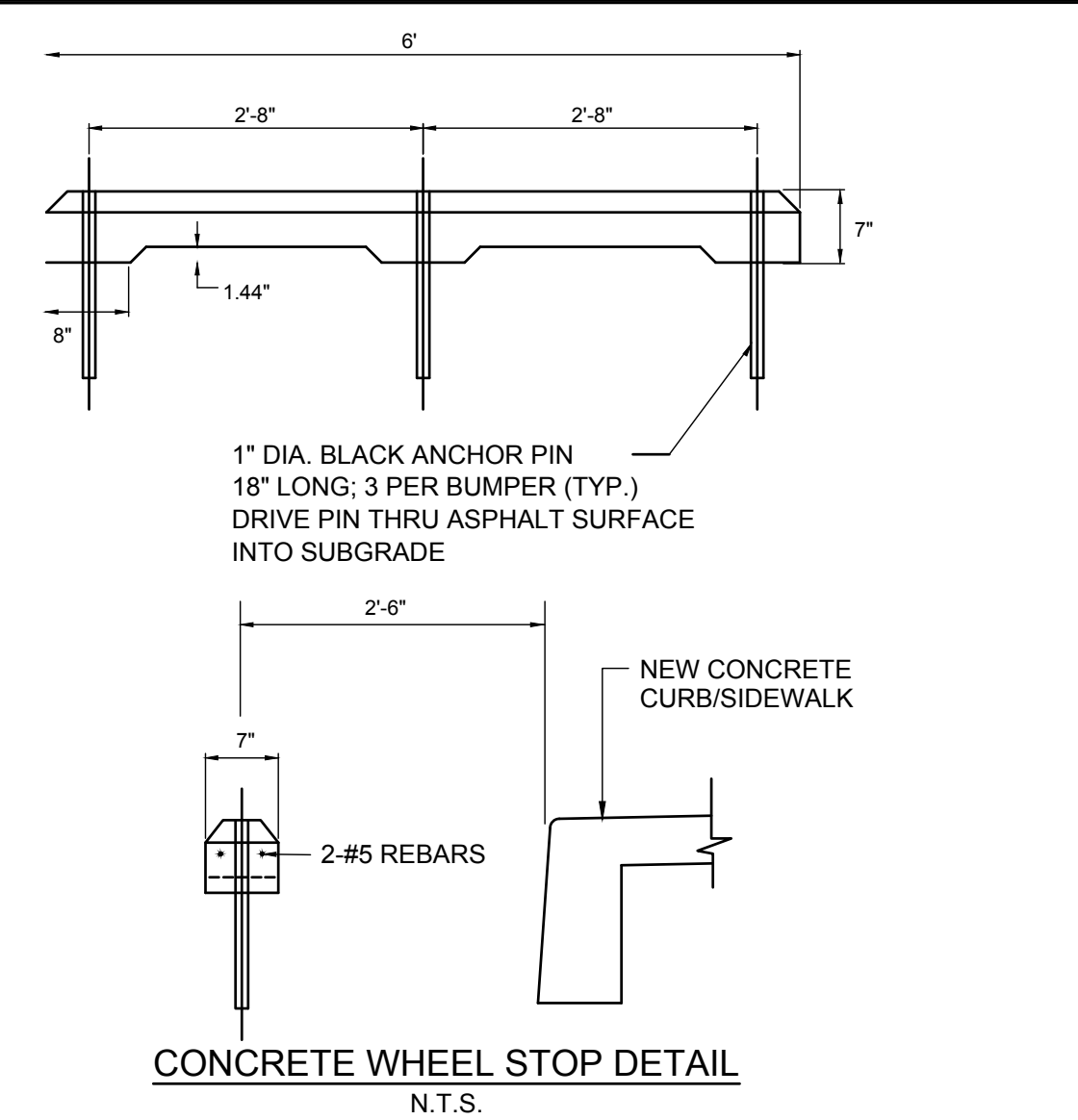
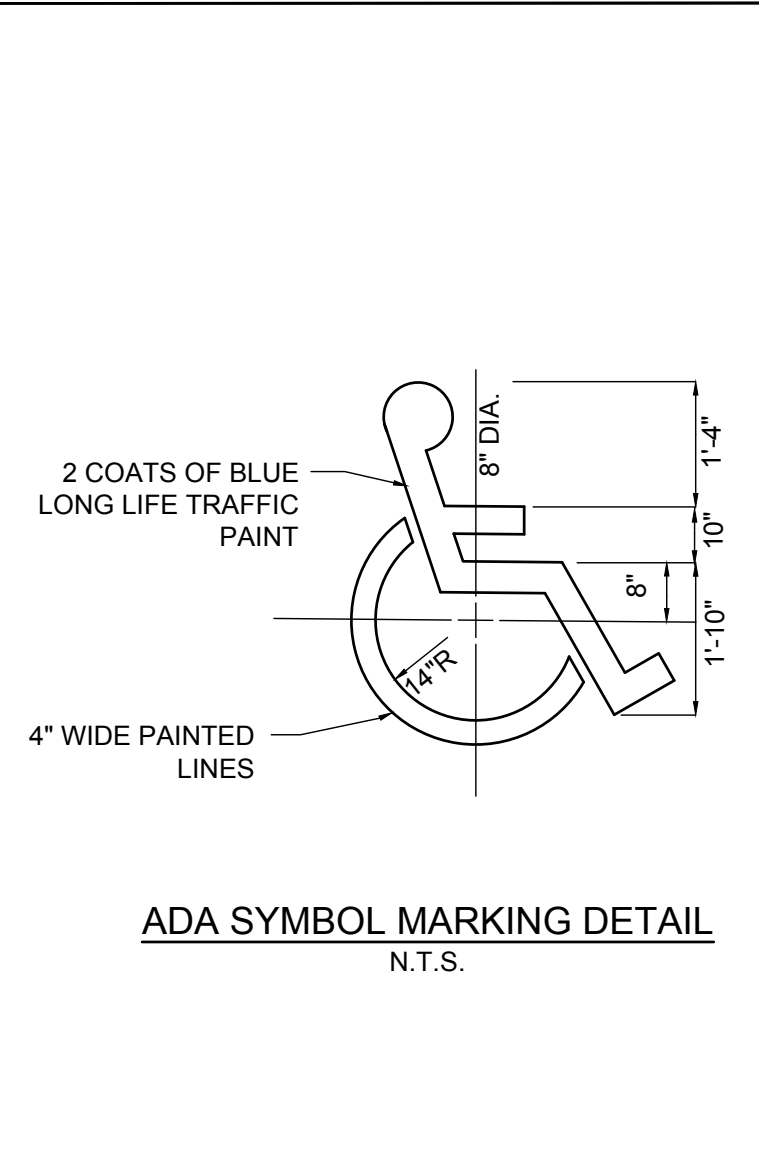
The Night Falcon™ LED Floodlight luminaire combines high efficiency, color, superior thermal management and energy efficiency in a sleek, slim design. This luminaire is ideal for illuminating large areas. The luminaire is available in 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0, 23.0, 24.0, 25.0, 26.0, 27.0, 28.0, 29.0, 30.0, 31.0, 32.0, 33.0, 34.0, 35.0, 36.0, 37.0, 38.0, 39.0, 40.0, 41.0, 42.0, 43.0, 44.0, 45.0, 46.0, 47.0, 48.0, 49.0, 50.0, 51.0, 52.0, 53.0, 54.0, 55.0, 56.0, 57.0, 58.0, 59.0, 60.0, 61.0, 62.0, 63.0, 64.0, 65.0, 66.0, 67.0, 68.0, 69.0, 70.0, 71.0, 72.0, 73.0, 74.0, 75.0, 76.0, 77.0, 78.0, 79.0, 80.0, 81.0, 82.0, 83.0, 84.0, 85.0, 86.0, 87.0, 88.0, 89.0, 90.0, 91.0, 92.0, 93.0, 94.0, 95.0, 96.0, 97.0, 98.0, 99.0, 100.0.

FEATURES

- High efficiency LED
- Color rendering index (CRI) > 90
- Adjustable beam
- Dimmable
- IP67
- UL
- ETL
- CE
- SERAA
- SERASA

FLOOD LIGHT FIXTURE

NO.	DATE	REVISIONS
1	02/15/2018	ISSUED FOR BIDDING
2	02/15/2018	FOR COMMENTS
3	02/15/2018	FOR COMMENTS
4	02/15/2018	FOR COMMENTS
5	02/15/2018	FOR COMMENTS
6	02/15/2018	FOR COMMENTS
7	02/15/2018	FOR COMMENTS
8	02/15/2018	FOR COMMENTS
9	02/15/2018	FOR COMMENTS
10	02/15/2018	FOR COMMENTS
11	02/15/2018	FOR COMMENTS
12	02/15/2018	FOR COMMENTS
13	02/15/2018	FOR COMMENTS
14	02/15/2018	FOR COMMENTS
15	02/15/2018	FOR COMMENTS



Pennoni
PENNONI ASSOCIATES INC.
515 Grove Street, Suite 1B
Haddon Heights, NJ 08035
T 856.547.0505 F 856.547.9174
NJ REG. NO. GA2633300

HUGH J. DOUGHERTY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE34634
08/26/2020
Hugh Dougherty

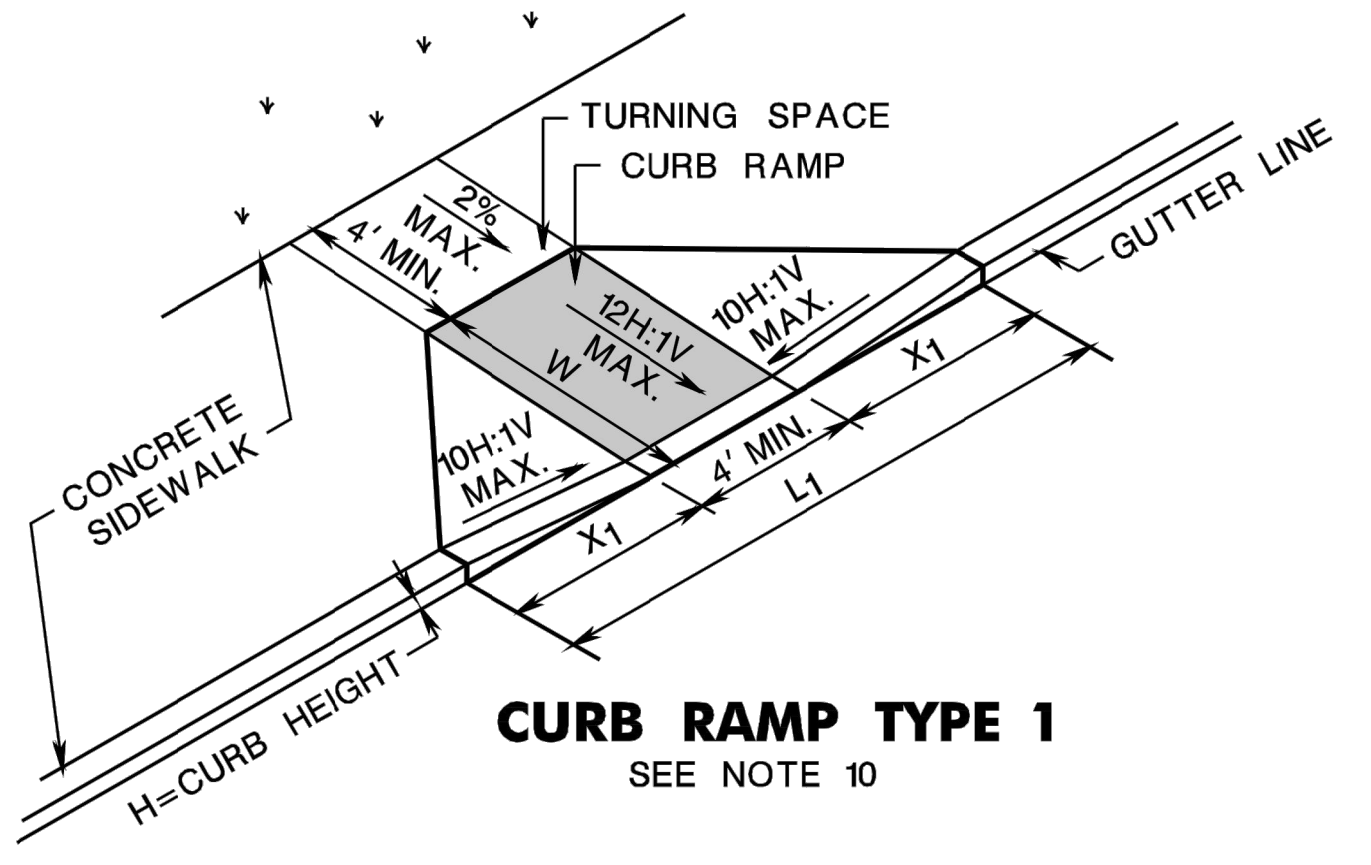
ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR DISCREPANCIES BEFORE PROCEEDING WITH WORK

RELIEF FIREHOUSE
17 PINE STREET AND 23 TAX MAP SHEET 25
BLOCK 88, LOTS 4, 5, 10, 11 HADDON HEIGHTS, NEW JERSEY
TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY

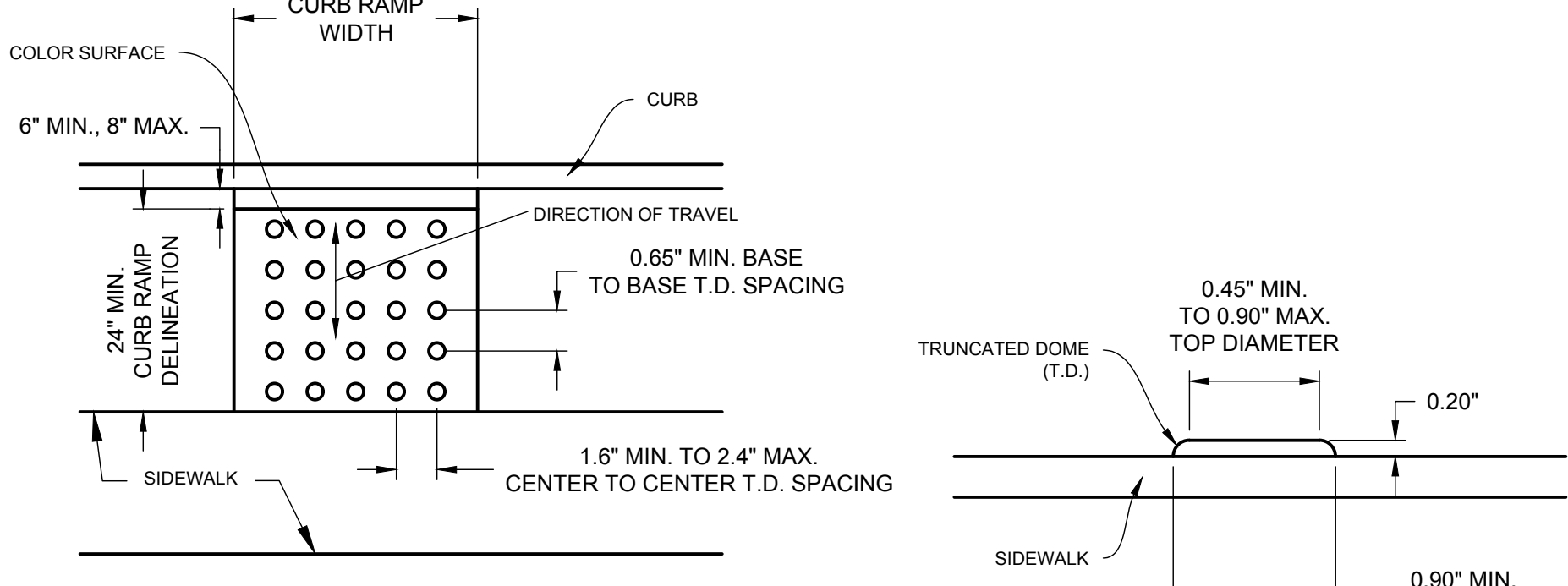
CONSTRUCTION DETAILS - 1
MOUNT HOLLY FIRE DISTRICT NO. 1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060

NO.	DATE	REVISIONS
1	08/26/2020	ISSUED FOR BIDDING
2	07/09/2021	SMR
3	07/09/2021	SMR
4	07/09/2021	SMR
5	07/09/2021	SMR
6	07/09/2021	SMR
7	07/09/2021	SMR
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PROJECT: MHF1500
DATE: AUGUST 18, 2017
DRAWING SCALE: NTS
DRAWN BY: JRB
APPROVED BY: HUD
CM6001
SHEET 9 OF 14



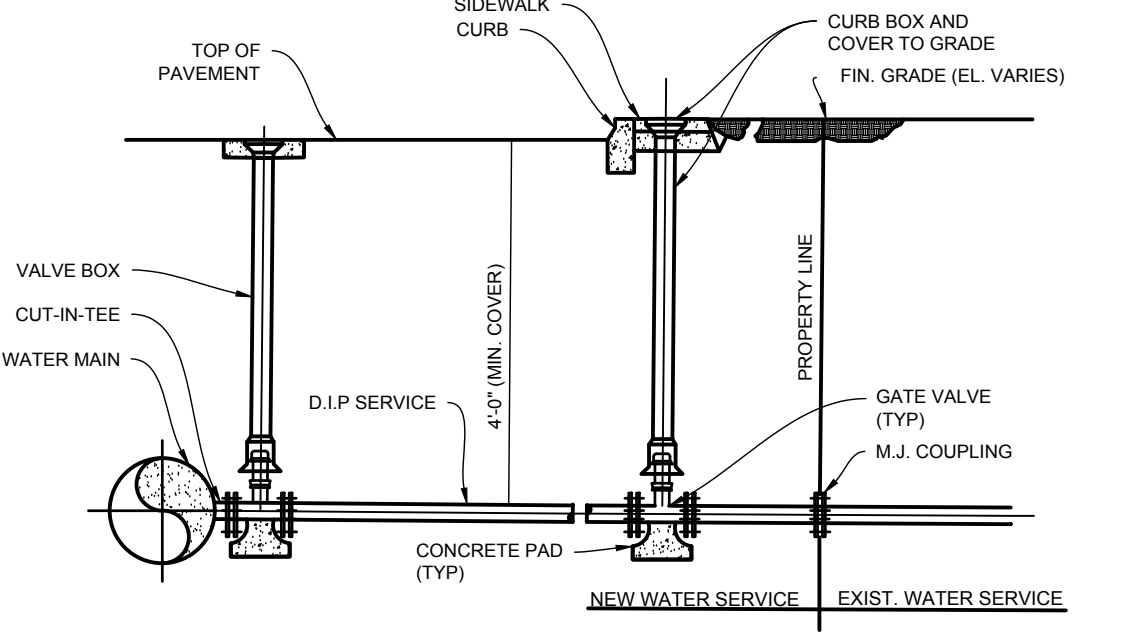
CURB RAMP TYPE 1
SEE NOTE 10



DETECTABLE WARNING SURFACE
ADA CURB RAMP DETAILS
N.T.S.

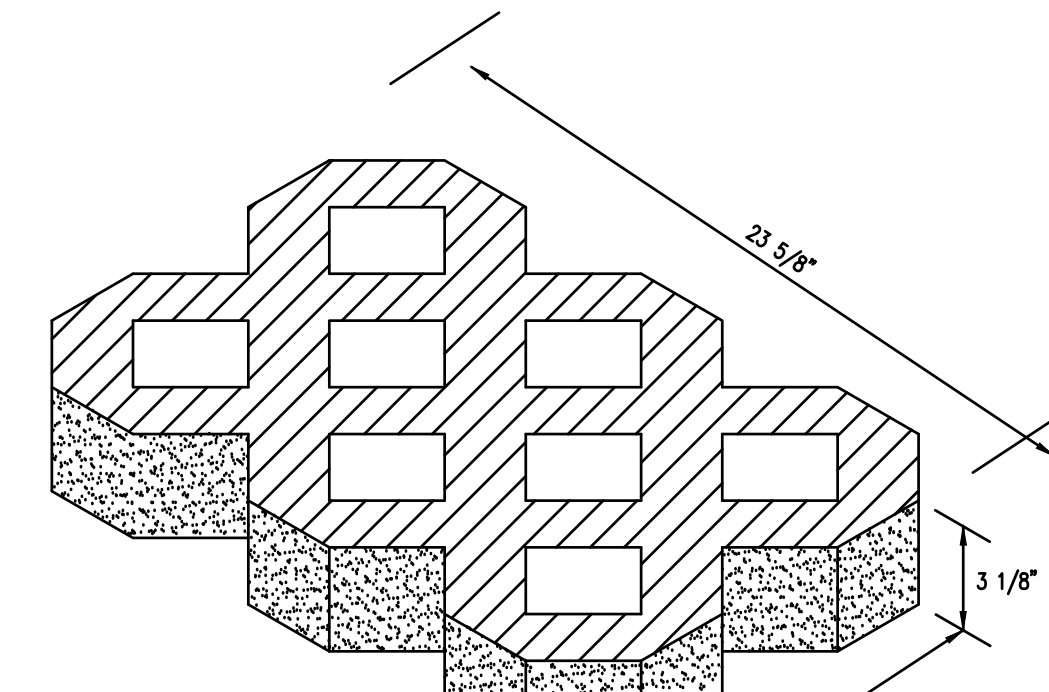
- NOTE: WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
- NOTES:**
1. LANDING AREA: APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
 2. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRASTICALLY IN AREA OF PROPOSED CURB RAMP.
 3. CURB (DROPPED CURB) GUTTER LINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
 4. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
 5. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
 6. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
 7. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
 8. PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERFERED WITHIN THE SAME INTERSECTION.
 9. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS, WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.
 10. CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN.

- GENERAL CONSTRUCTION NOTES:**
1. ALL CONCRETE SHALL BE NJDOT CLASS "B" (4,000 PSI)
 2. STANDARD DETAIL DIMENSIONS ARE TO BE FOLLOWED UNLESS MODIFIED BY THE ENGINEER TO ACCOMMODATE FIELD CONDITIONS.
 3. PLACE EXPANSION JOINTS WHERE EVER RAMP MEETS SIDEWALK OR ADJACENT CURB.
 4. TRANSITION FROM RAMP TO STREETS OR WALKS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
 5. BROOM FINISH ALL RAMP SURFACES PERPENDICULAR TO THE DIRECTION OF TRAFFIC TO CREATE A SKID RESISTANT SURFACE.



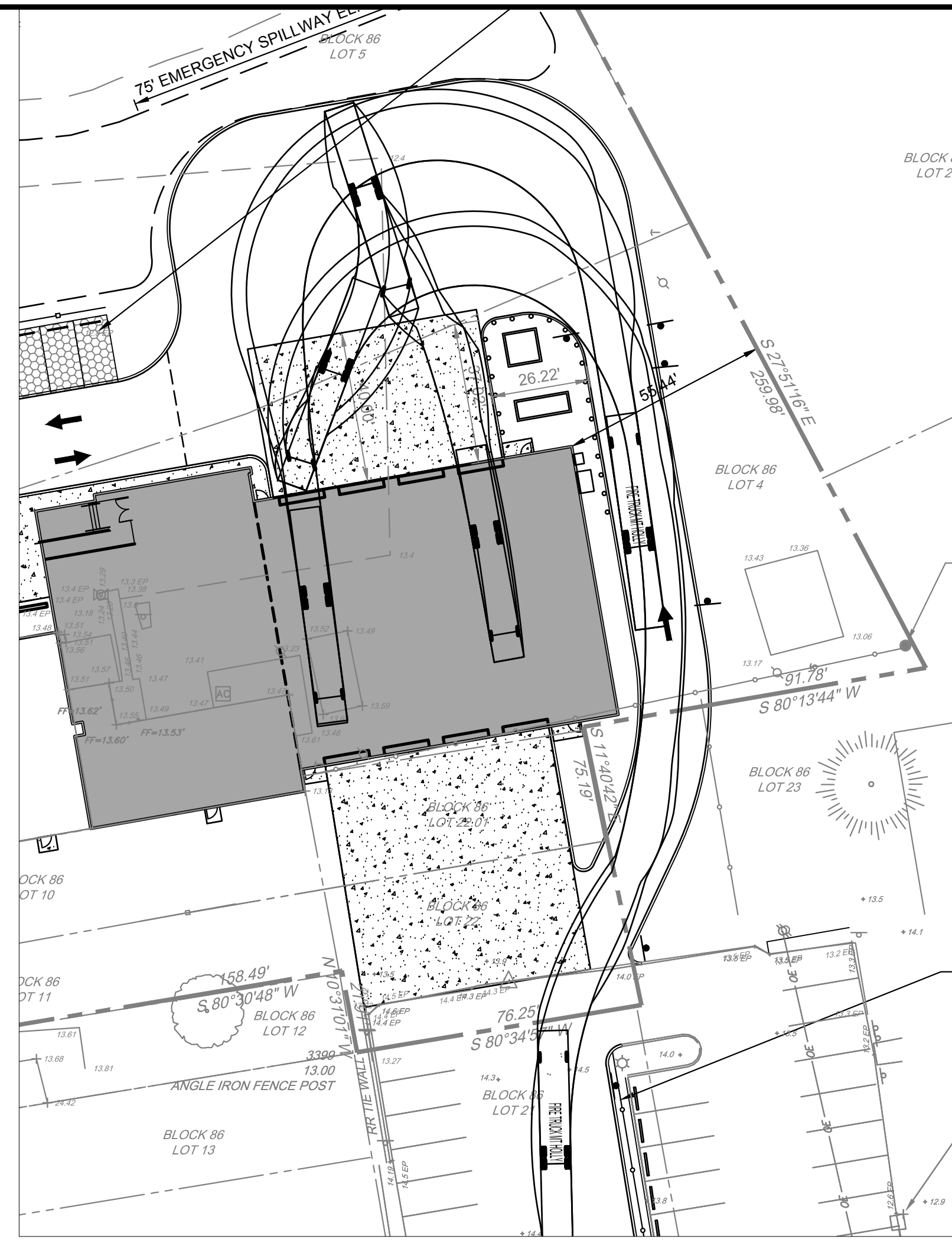
TYPICAL WATER SERVICE CONNECTING LARGER THAN 2-INCH DIAMETER
N.T.S.

- NOTES:**
1. CONTRACTOR SHALL PROVIDE ALL
 2. EXPANSION JOINTS 7" WIDE SHALL BE INSTALLED IN THE CURB 20' APART AND FILLED WITH CELLULAR COMPRESSION MATERIAL AS SPECIFIED AND RECESSED 2" FROM FACE AND TOP OF CURB. EXPANSION JOINTS TO BE INCLUDED IN PRICE BID FOR CURB. CONSTRUCTION JOINT SHALL BE CUT MID-POINT BETWEEN EXP. JOINTS.
 3. WHERE NO ELEVATION IS GIVEN ON THE PLAN, MATCH THE PROJECTED TOP OF EXISTING CURB. THE PROJECTED TOP OF CURB SHALL BE DETERMINED BY A STRING LINE.

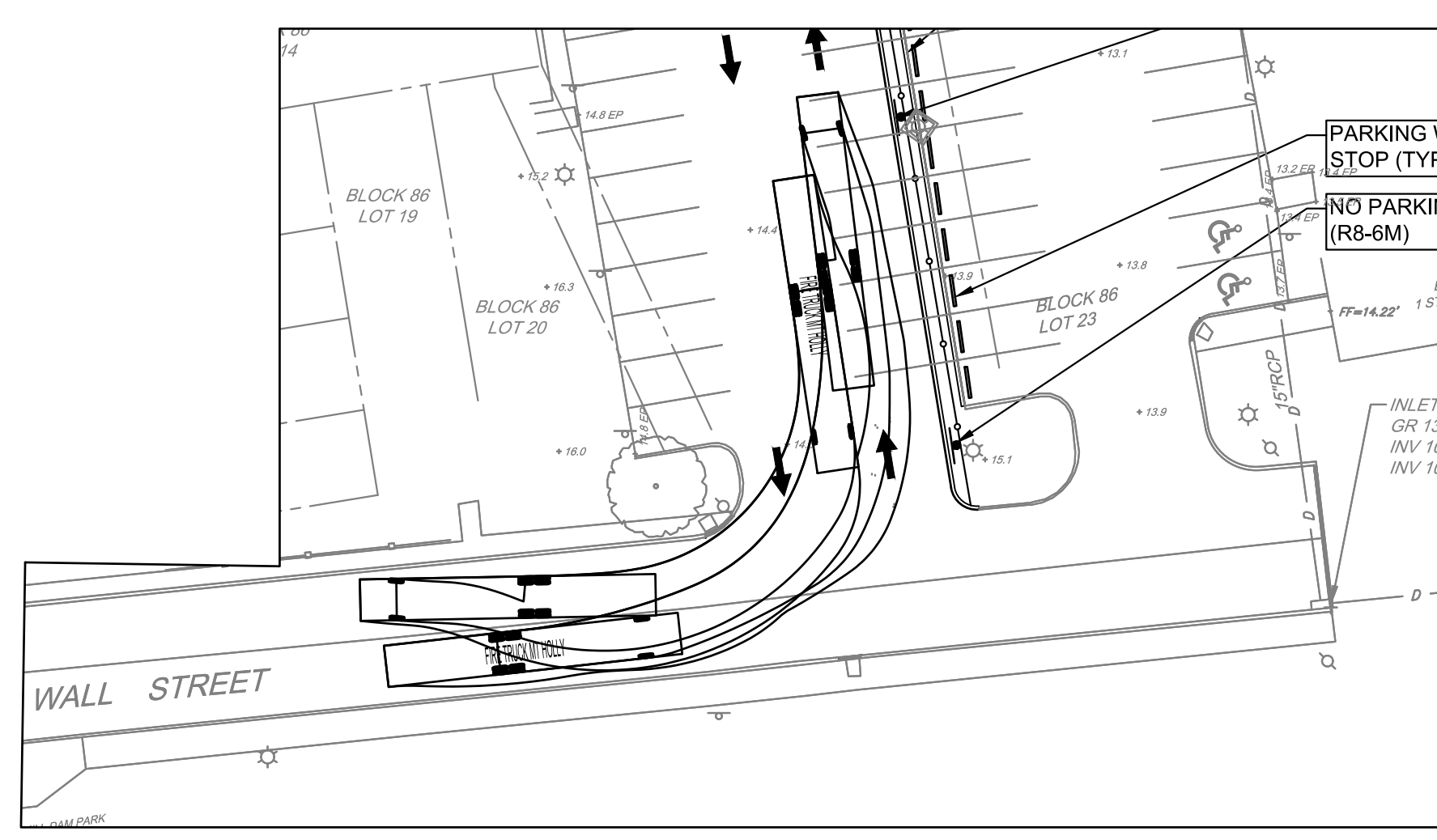


GRASS PAVER DETAIL
N.T.S.

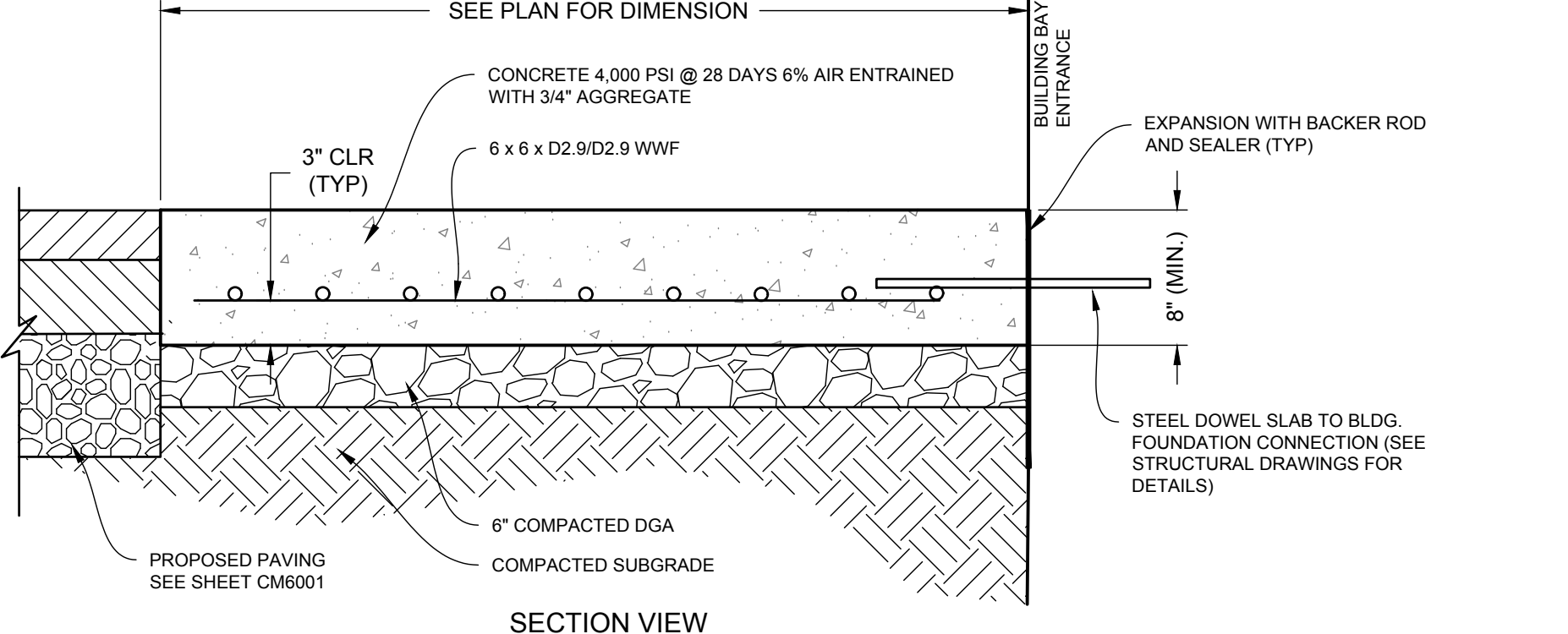
- NOTES:**
1. TURF PAVERS AS MANUFACTURED BY THE E.P. HENRY CORPORATION AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
 2. AREA TO BE EXCAVATED TO REQUIRED DEPTH AND SOIL SUBGRADE TO BE COMPACTED TO AT LEAST 90% OF MODIFIED PROCTOR DENSITY.
 3. THE SETTING BED SHALL BE 4" THICK DGA
 4. UNIT JOINTS SHALL BE FILLED WITH SANDY LOAM TOPSOIL AND SEEDED.



FIRE TRUCK MANEUVERS INTO BAYS

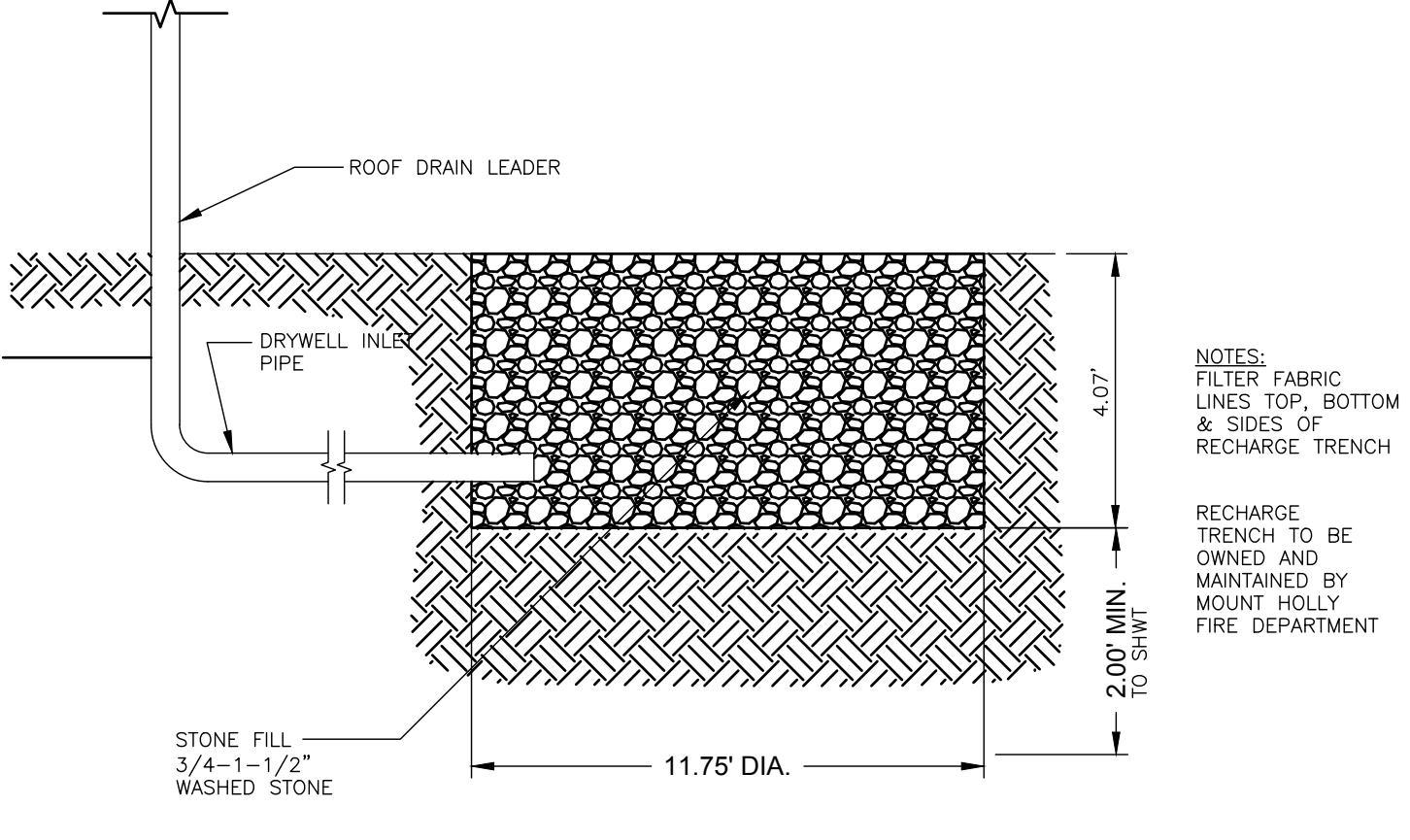


LOT 21 PARKING LOT MANEUVERS

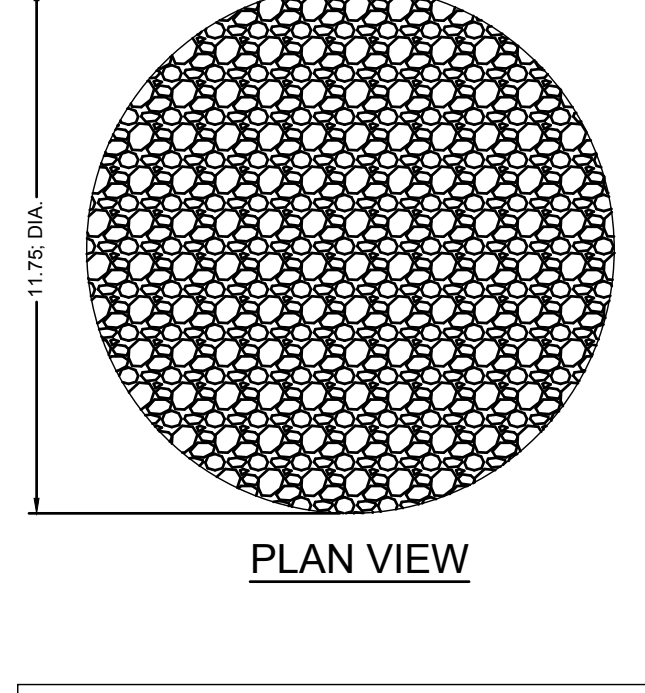


HEAVY DUTY CONCRETE REINFORCED PAVING DETAIL
N.T.S.

- SPECIFICATIONS:**
1. EXPANSION JOINTS SHALL BE AT 20 FT C.C. MAXIMUM. SEE SITE PLAN FOR EXPANSION JOINT LOCATIONS. JOINTS SHALL APPROVED BY ENGINEER/OWNER.
 2. EXPANSION JOINT SHALL BE 1/2" MASTIC MATERIAL OR APPROVED EQUAL.
 3. ALL EXPANSION JOINTS SHALL RECEIVE A BACKER ROD AND COLORED NON-SHRINK SEALER TO MATCH CONCRETE. SIKA OR EQUAL.

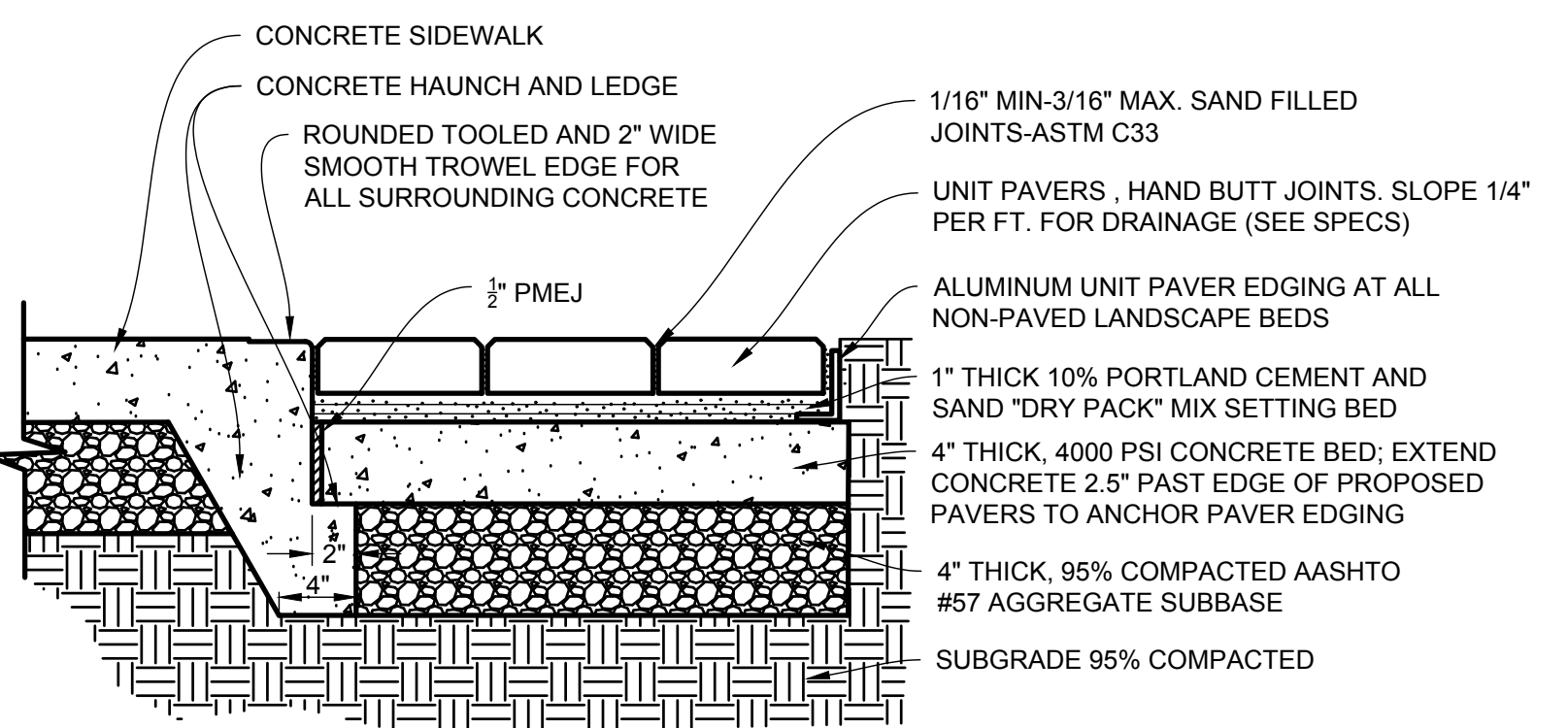


ROOF RECHARGE TRENCH DETAIL
N.T.S.



NOTES:
FILTER FABRIC LINES TOP, BOTTOM & SIDES OF RECHARGE TRENCH
RECHARGE TRENCH TO BE OWNED AND MAINTAINED BY MOUNT HOLLY FIRE DEPARTMENT

CALCULATIONS:
11.75 LF DIA. RECHARGE TRENCH, AREA = 108.62 SF
STONES - 40# (0.40) VOID RATIO
DEPTH = 4.07 FEET
SURFACE AREA = π(5.88)² = 108.62 SF
TOTAL STORAGE = 4.07 x 108.62 x 0.40 = 176.83 CF
TOTAL STORAGE = 176.83 > 175.50 CF REQUIRED

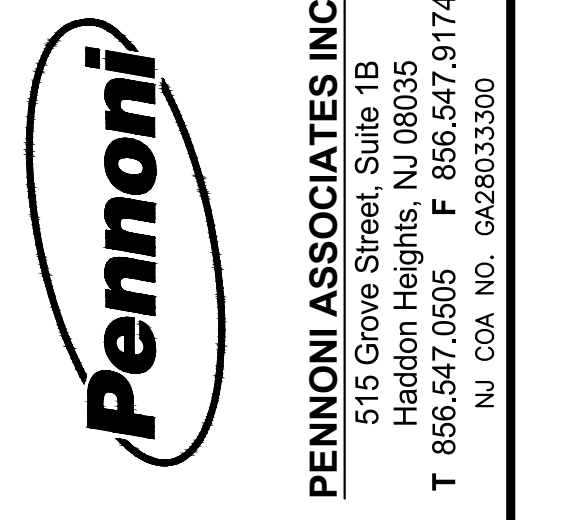


UNIT PAVER SIDEWALK DETAIL
N.T.S.

MINIMUM SIZE OF CONCRETE THRUST BLOCKS

D	TEES & CROSSERS			90° BENDS			45° BENDS			270° BENDS			11/4" BENDS			REDUCERS		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	DxD	A	B
6"	2'-0"	8"	1'-3"	2'-6"	8"	1'-3"	1'-6"	8"	1'-3"	1'-6"	8"	1'-3"	1'-6"	8"	1'-3"	6" x 4"	1'-6"	1'-0"
8"	2'-6"	8"	1'-6"	3'-0"	8"	1'-6"	1'-6"	8"	1'-9"	1'-6"	8"	1'-9"	1'-6"	8"	1'-9"	8" x 4"	2'-0"	1'-0"
10"	3'-0"	10"	2'-0"	3'-6"	10"	2'-0"	2'-3"	10"	2'-0"	1'-6"	10"	2'-0"	1'-6"	10"	2'-0"	10" x 6"	2'-4"	1'-3"
12"	3'-6"	10"	2'-9"	3'-9"	10"	2'-9"	2'-6"	10"	2'-6"	1'-6"	10"	2'-6"	1'-6"	10"	2'-6"	10" x 8"	2'-6"	1'-6"

WATER MAIN THRUST BLOCK DETAIL
N.T.S.



HUGH J. DOUGHERTY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. G63464

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR DISCREPANCIES BEFORE PROCEEDING WITH WORK

RELIEF FIREHOUSE
17 PINE STREET
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 23 AND 23 TAX MAP SHEET 25
TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY

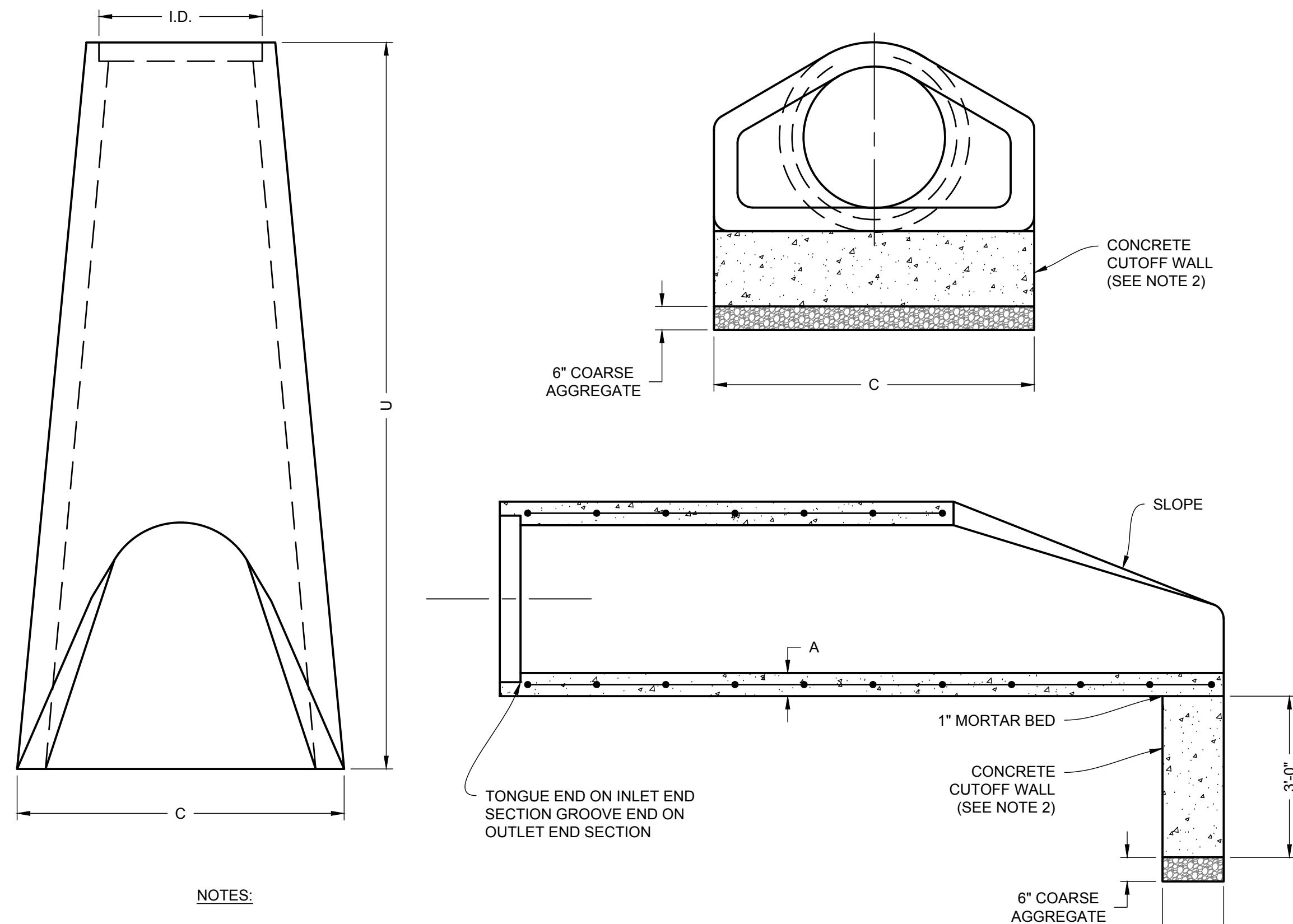
CONSTRUCTION DETAILS - 2
MOUNT HOLLY FIRE DISTRICT NO. 1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060

NO.	ISSUED FOR	DATE	REVISIONS
1	ISSUED FOR BIDDING	08/26/2020	
2	BID PLANS	08/26/2020	
3	FIRE COUNTY PLANNING BOARD ENGINEER	08/26/2020	
4	PER NJDEP COMMENTS	09/23/2020	
5	BURL. CNTY. FIRE SUBMISSION REUBMISSION	09/23/2020	
6	NJDEP AND GREENHOUSES REUBMISSION	09/23/2020	
7	NJDEP AND GREENHOUSES REUBMISSION	09/23/2020	
8	BURL. CNTY. FIRE SUBMISSION	09/23/2020	
9	NJDEP SUBMISSION	09/23/2020	
10	BURL. CNTY. S.C.D. REUBMISSION	09/23/2020	

PROJECT: **MHFC1500**
DATE: **AUGUST 18, 2017**
DRAWING SCALE: **1"=30'**
DRAWN BY: **JRB**
APPROVED BY: **HUD**

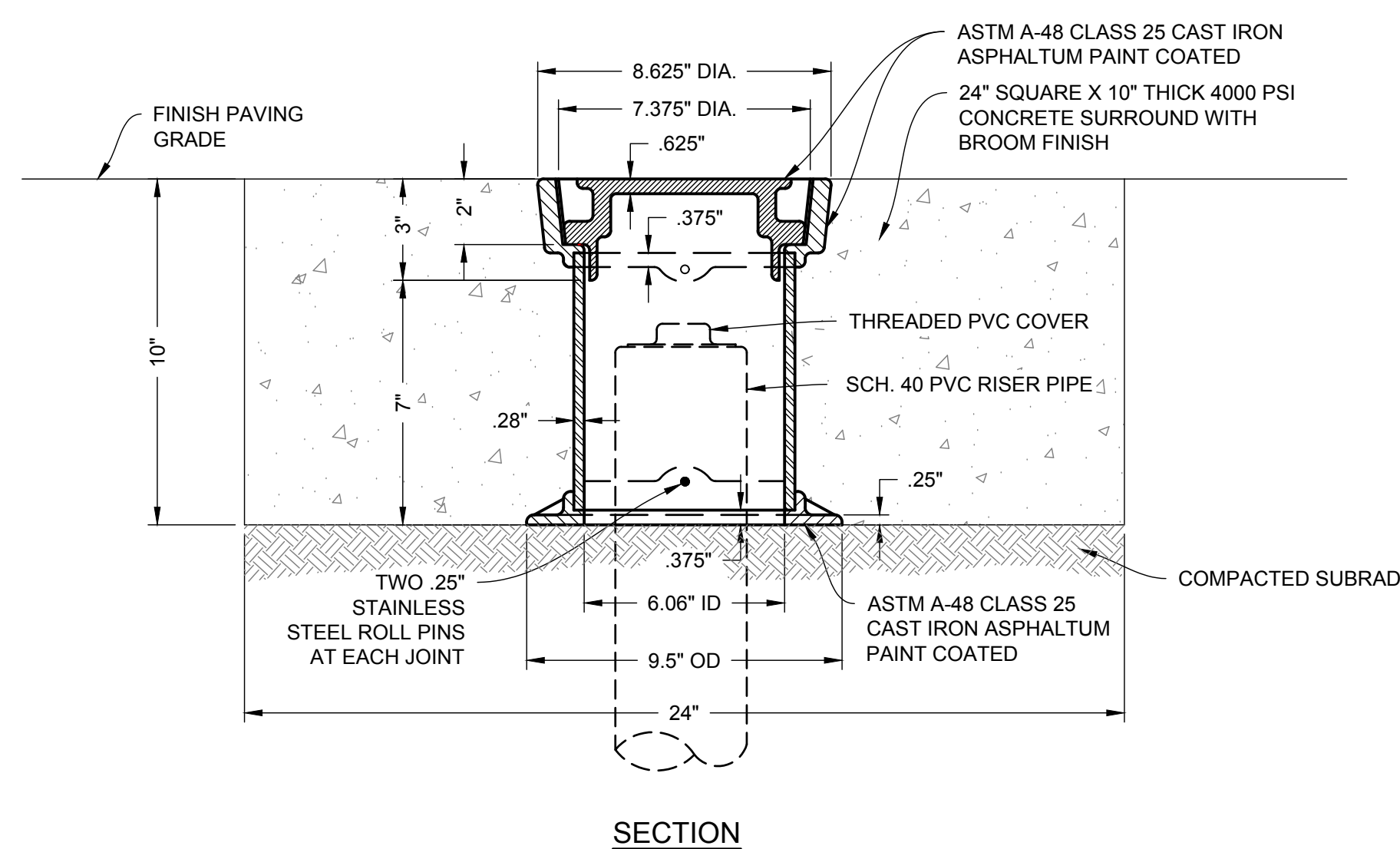
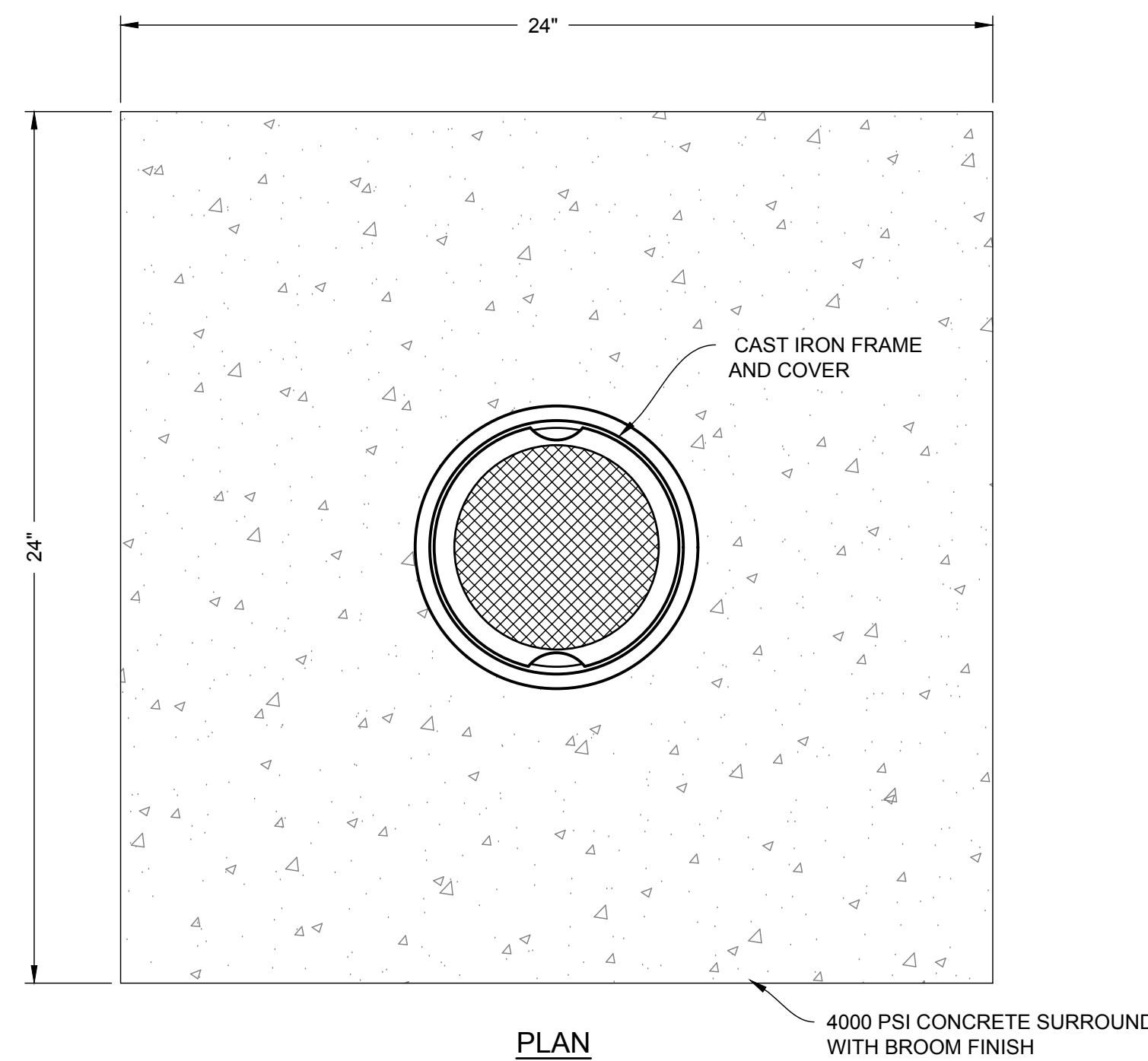
CM6002
SHEET 10 OF 14

DIMENSIONS (INCHES)												
I.D.	12	15	18	21	24	27	30	36	42	48	54	60
A	2	2 1/4	2 1/2	2 3/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
U	72	72	72	72	72	72	72	96	96	96	96	96
C	28	34.5	41	47.5	54	60.5	67	80	87	94	101	108

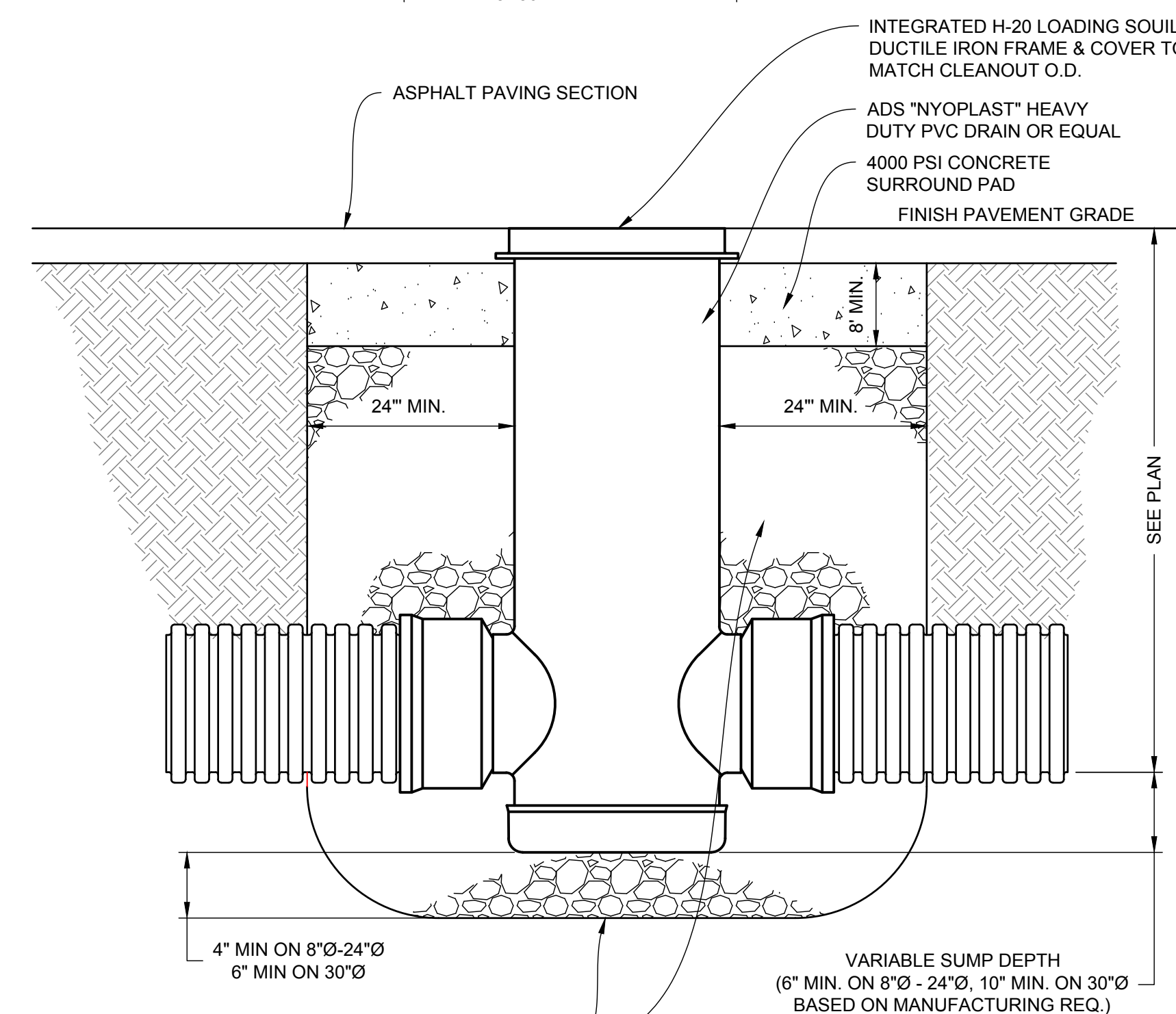
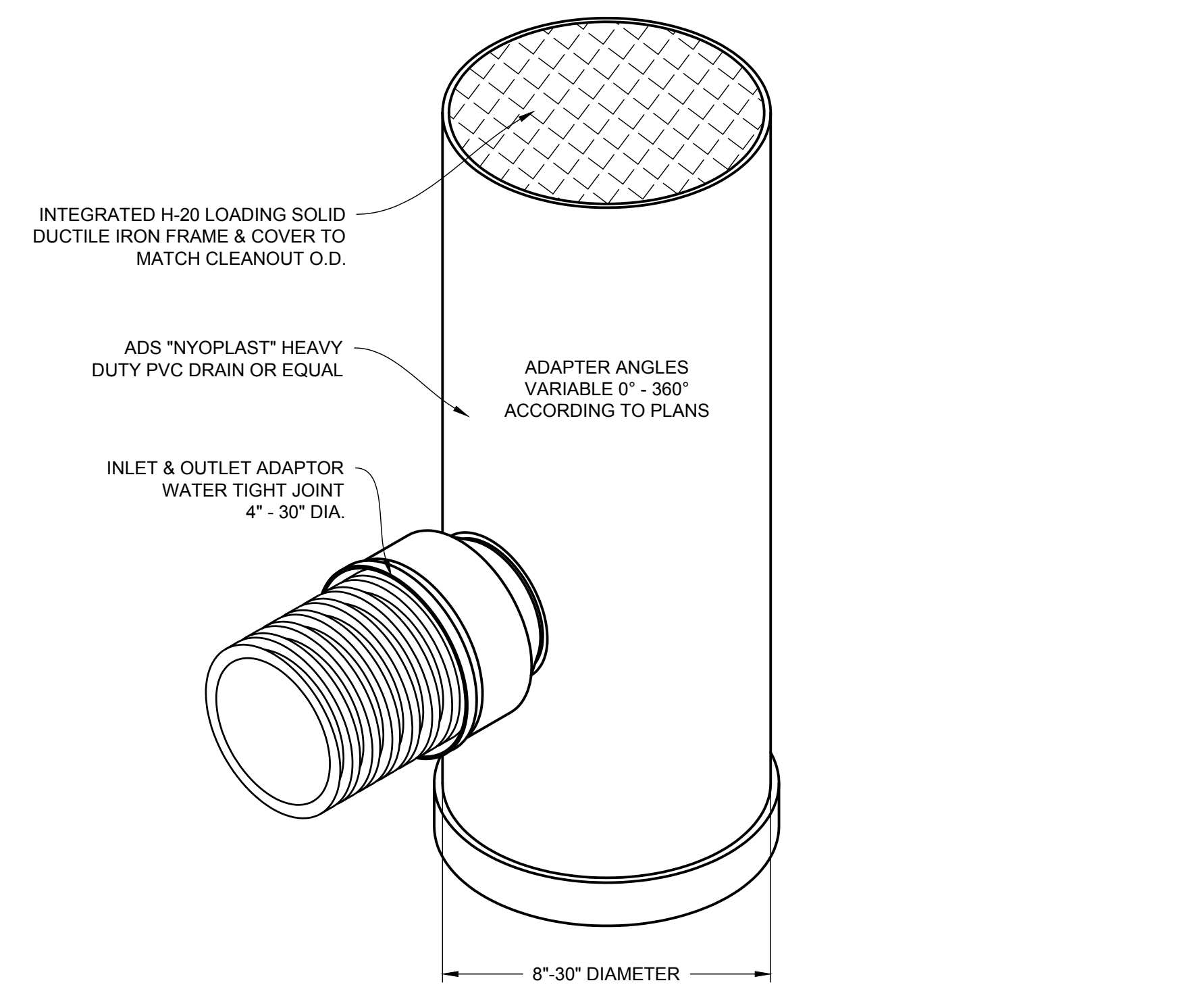


- NOTES:**
- MINOR VARIATIONS TO THE ABOVE DIMENSIONS ARE ACCEPTABLE WITH THE EXCEPTION OF THE INSIDE DIAMETER DIMENSION.
 - A 1 INCH THICK MORTAR BED AND A 6 INCH DEEP LAYER OF COARSE AGGREGATE ARE REQUIRED WHEN A PRECAST CONCRETE CUTOFF WALL IS USED.
 - NO SEPARATE PAYMENT WILL BE MADE FOR THE CONCRETE CUTOFF WALL. THE COST OF THE CONCRETE CUTOFF WALL SHALL BE INCLUDED IN THE COST OF THE END SECTION.
 - THE WIDTH OF THE CONCRETE CUTOFF WALL SHALL BE EQUAL TO THE MAXIMUM WIDTH OF THE END SECTION AS INDICATED ON THE DETAIL BY DIMENSION "C". HOWEVER, IF THE ACTUAL MAXIMUM WIDTH EXCEEDS THE CHART VALUE OF "C", THE WIDTH OF THE CONCRETE CUTOFF WALL SHALL EQUAL THE ACTUAL MAXIMUM WIDTH OF THE END SECTION.

CONCRETE PIPE END SECTION DETAIL
N.T.S.



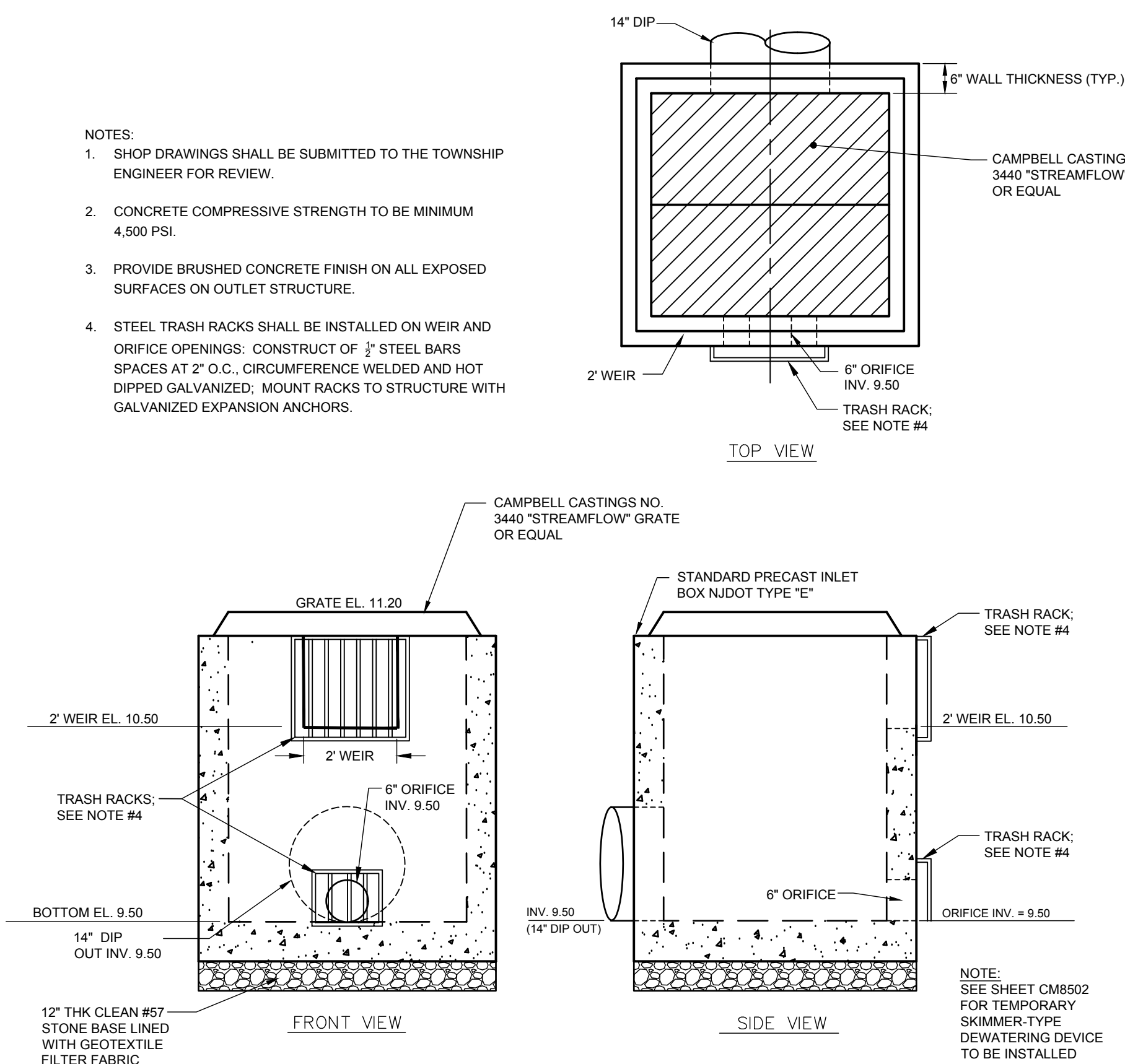
SANITARY CLEANOUT COVER IN PAVED OR CONCRETE AREA
(GENCO PART NO. CC4 OR APPROVED EQUAL)
N.T.S.



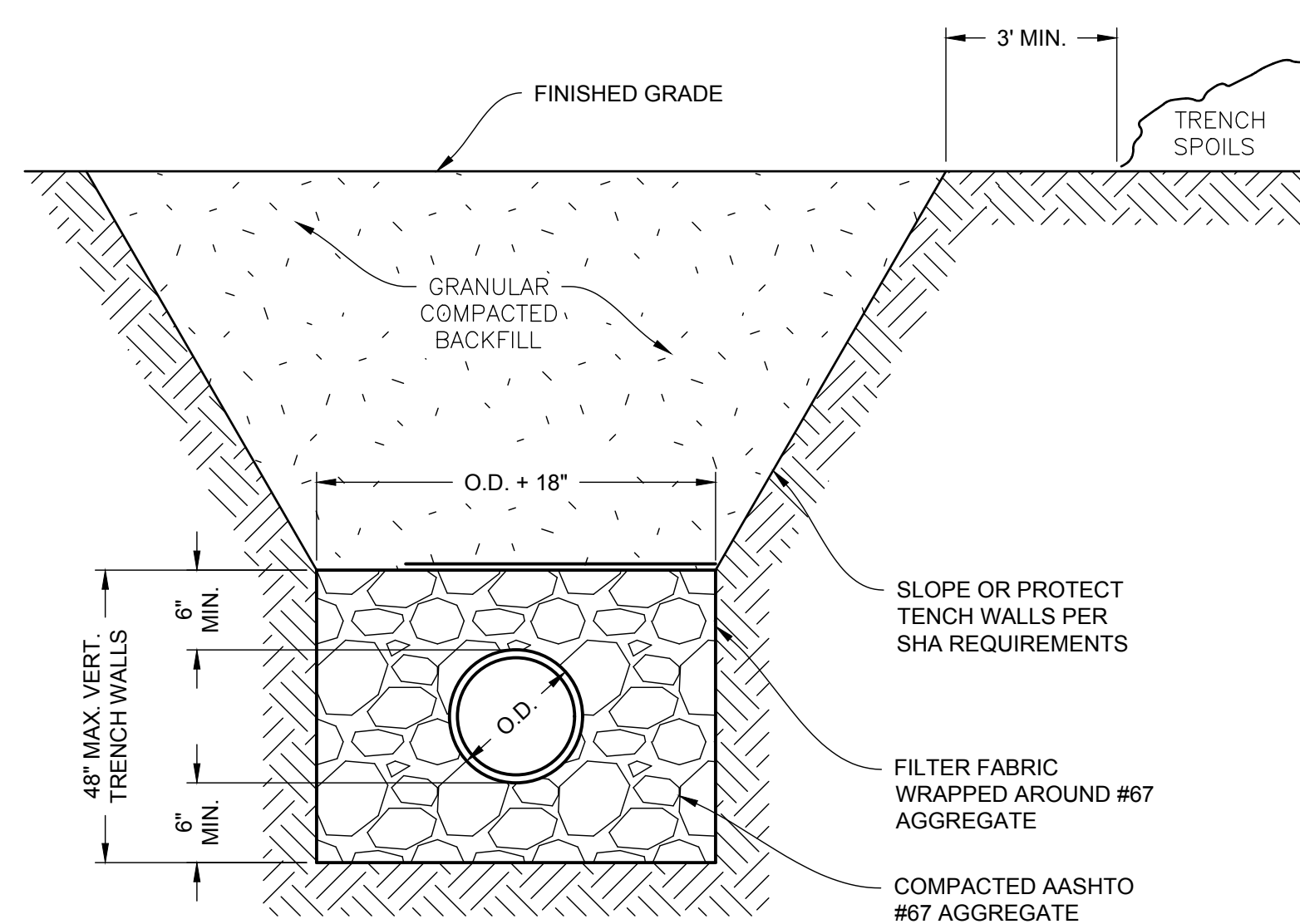
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321, OR AS DETERMINED BY LOCAL STANDARDS & SITE ENGINEER. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

NYLOPLAST STORM CLEANOUT (H-20 LOADING) DETAIL
NOT TO SCALE

- NOTES:**
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE TOWNSHIP ENGINEER FOR REVIEW.
 - CONCRETE COMPRESSIVE STRENGTH TO BE MINIMUM 4,500 PSI.
 - PROVIDE BRUSHED CONCRETE FINISH ON ALL EXPOSED SURFACES ON OUTLET STRUCTURE.
 - STEEL TRASH RACKS SHALL BE INSTALLED ON WEIR AND ORIFICE OPENINGS. CONSTRUCT OF 1/2" STEEL BARS SPACES AT 2" O.C., CIRCUMFERENCE WELDED AND HOT DIP GALVANIZED. MOUNT RACKS TO STRUCTURE WITH GALVANIZED EXPANSION ANCHORS.

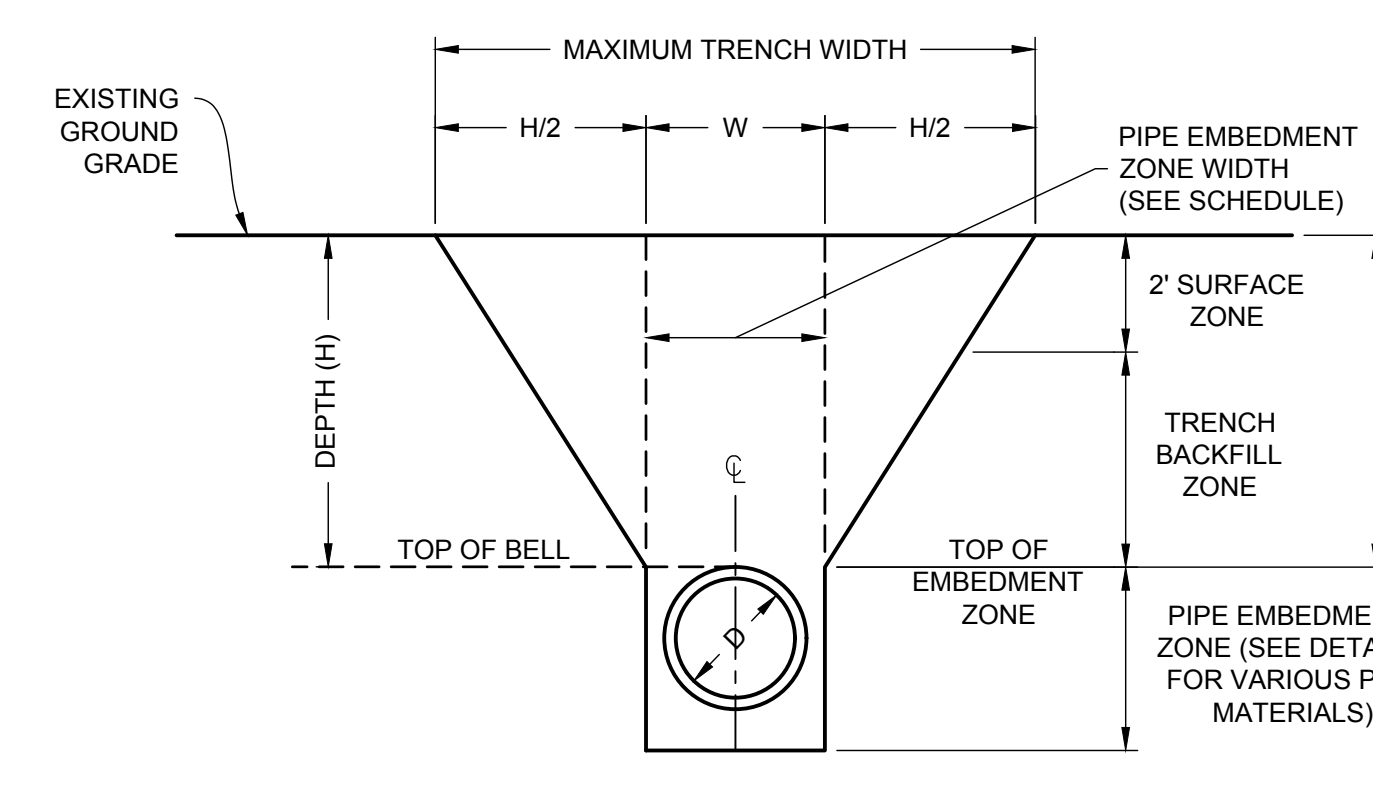


BASIN OUTLET CONTROL STRUCTURE
N.T.S.



NOTE: TRENCHING OPERATIONS SHALL CONFORM TO ALL OSHA REQUIREMENTS IF THE PIPE DIAMETER EXCEEDS 48". THE MINIMUM 12" COVER SHALL STILL APPLY. THIS TRENCH IS SUITABLE FOR USE UNDER WET OR UNSTABLE SOIL CONDITIONS.

HDPE PIPE TRENCH
N.T.S.



PIPE EMBEDMENT ZONE WIDTH SCHEDULE

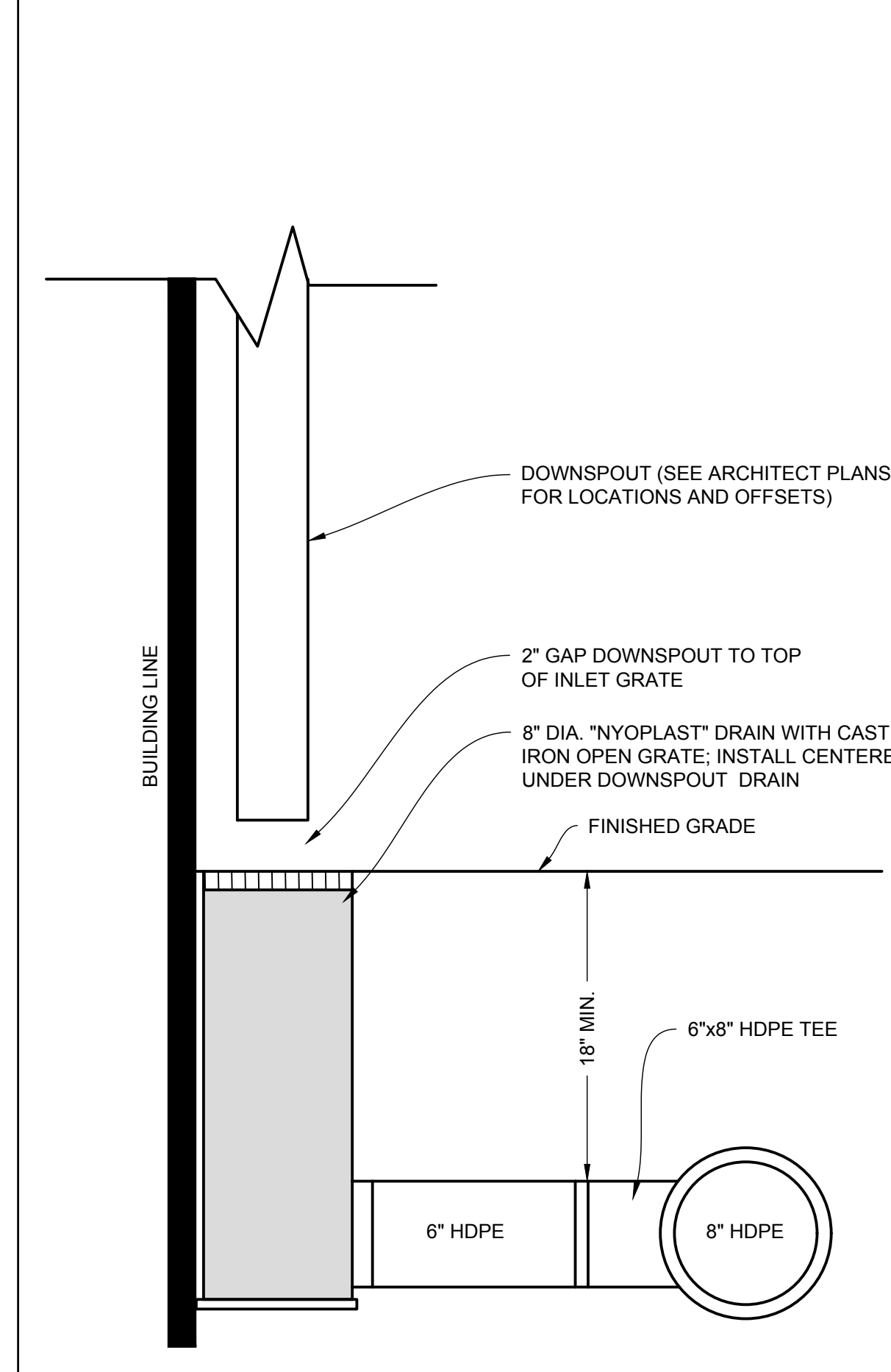
INSIDE DIA. OF PIPE (D)	4"	6"	8", 10", 12"	15"	18"	21"	24"	27"
EMBEDMENT ZONE WIDTH (W)	3'-0"	3'-6"	3'-6"	4'-0"	4'-0"	4'-0"	4'-0"	4'-6"

TRENCH EXCAVATION AND BACKFILL NOTES:

- THE MAXIMUM DRY DENSITIES SHALL BE DETERMINED IN ACCORDANCE WITH ASTM DESIGNATION D1557. THE MINIMUM PERCENTAGE OF COMPACTION TO BE ACHIEVED BY THE CONTRACTOR IN THE VARIOUS ZONES IS AS FOLLOWS:

ZONE	PIPE MATERIAL	LOCATION	INITIAL COMPACTION
SURFACE ZONE:	ALL	ALL	95%
	ALL	ALL	90%
TRENCH BACKFILL ZONE:	ALL	ALL	95%
PIPE EMBEDMENT ZONE:	ALL	ALL	95%
- THE PIPE EMBEDMENT ZONE WIDTH AND THE MAXIMUM TRENCH WIDTH SHALL NOT EXCEED THE PERMISSIBLE WIDTHS SHOWN. IF PERMISSIBLE WIDTH IS EXCEEDED, THE PIPE SHALL BE INSTALLED IN A HIGHER CLASS BEDDING THAN SHOWN ON THE DRAWINGS OR THE SPECIFIED PIPE SHALL BE REPLACED WITH PIPE OF GREATER CRUSHING STRENGTH OR BOTH, TO ACHIEVE SUITABLE CONDITIONS.
- SUITABLE MATERIAL FROM EXCAVATIONS SHALL BE FREE OBJECTIONABLE QUANTITIES OF ORGANIC MATTER, CLAYS, TREES, STUMPS, FROZEN MATERIAL, RUBBLE, REFUSE, CINDERS, ROCK AND OTHER MATERIALS CONSIDERED DELETERIOUS BY THE AUTHORITY AND SHALL NOT HAVE FINES IN EXCESS OF 10 PERCENT PASSING THE NO. 200 SIEVE NOR STONE OR GRAVEL LARGER THAN 2 INCHES.
- FOR PIPE MATERIALS OTHER THAN PVC, PIPE EMBEDMENT ZONE MAY BE INCREASED BY 6 INCHES.

SANITARY PIPE EMBEDMENT
N.T.S.

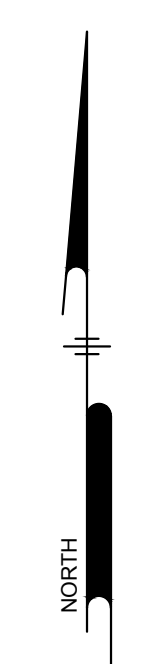
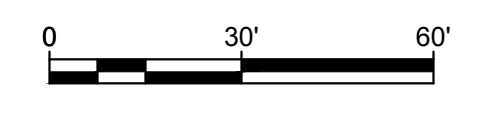
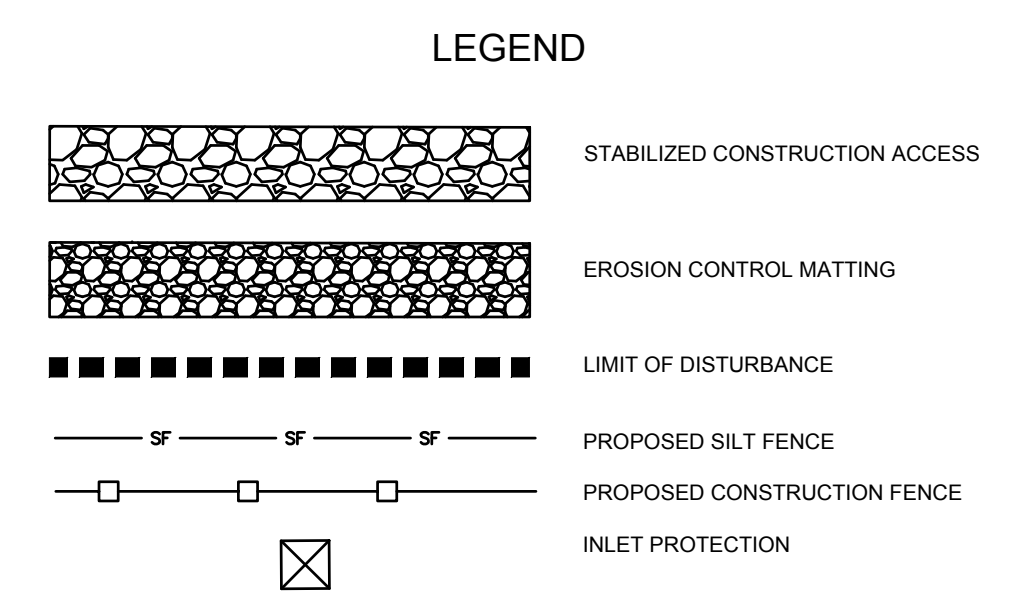
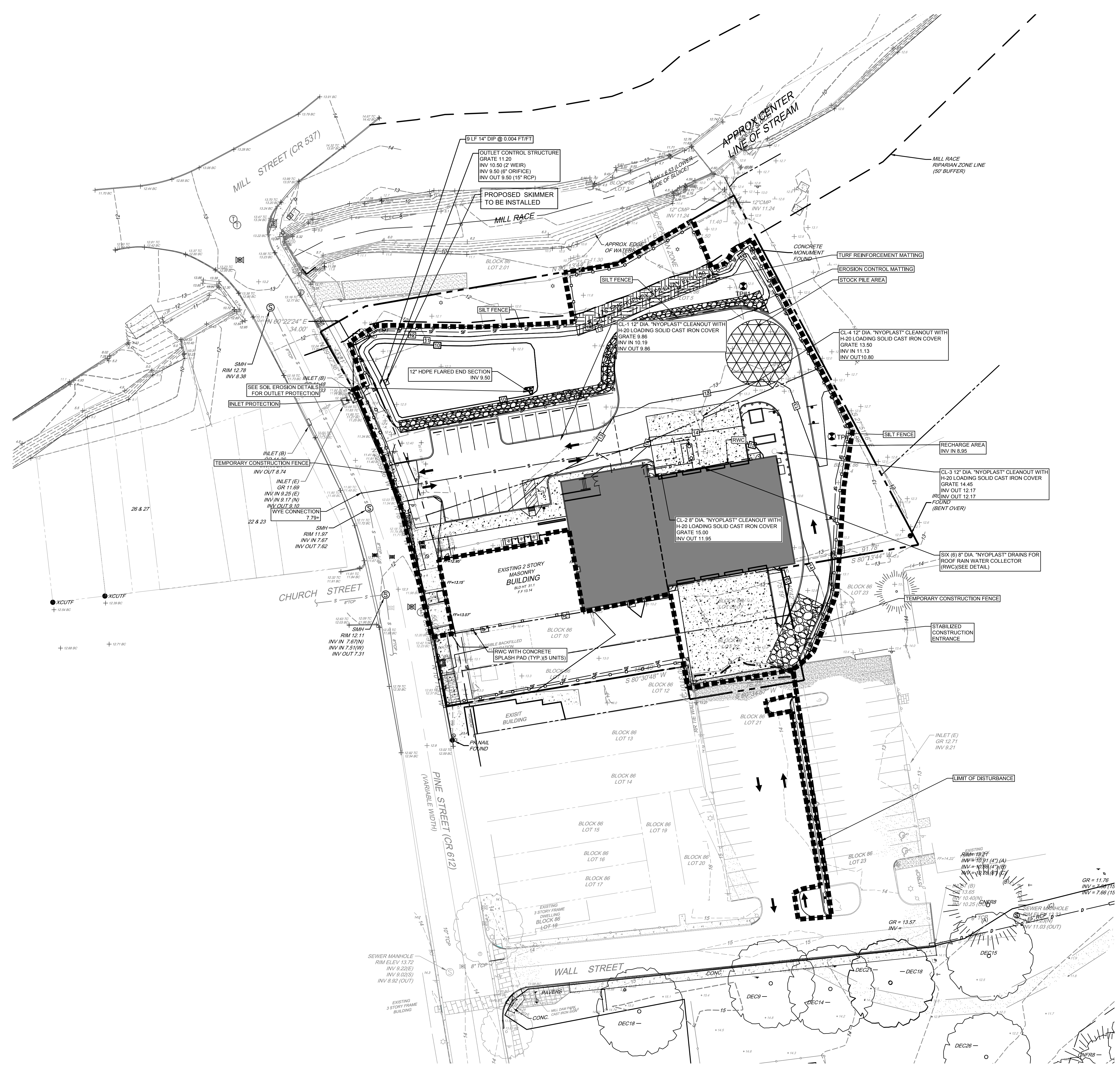


DOWNSPOUT (RWC) DRAIN
N.T.S.

NO.	ISSUED FOR	DATE	NO.	REVISIONS
10	ISSUED FOR BEDDING	08/26/2018	1	
9	BURL. CNTY. S.C.D. RESUBMISSION	07/30/2018	2	
8	BBP PLANS	07/19/2018	3	
7	PER COUNTY PLANNING BOARD ENGINEER	07/19/2018	4	
6	PER NJDEP COMMENTS	07/19/2018	5	
5	BURL. CNTY. PE SUBMISSION REUBMISSION	07/19/2018	6	
4	NJDEP AND GREENWICHES RESUBMISSION	07/19/2018	7	
3	NJDEP AND GREENWICHES RESUBMISSION	07/19/2018	8	
2	BURL. CNTY. PE SUBMISSION	07/19/2018	9	
1	NJDEP SUBMISSION	07/19/2018	10	

PROJECT: MHFC1500
DATE: AUGUST 18, 2017
DRAWING SCALE: 1"=30'
DRAWN BY: JRB
APPROVED BY: HUD
CM6003
SHEET 11 OF 14

C:\Users\jdoogherty\OneDrive\Documents\Pennoni\CM8001.dwg PLOTTED: 08/28/2018 10:58:01 AM BY: John Baily PLOT STYLE: Pennoni.ctb PROJECT STATUS:



DATE	NO.	REVISIONS
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07/09/2018	9	BURL. CNTY. S.C.D. RESUBMISSION
08/19/2018	8	BBP PLANS
07/19/2018	7	PER COUNTY PLANNING BOARD ENGINEER
07/19/2018	6	PER COUNTY COMMENTS
07/19/2018	5	PER NJDEP COMMENTS
08/27/2018	4	BURL. CNTY. PER SUBMISSION RESUBMISSION
08/27/2018	3	NJDEP AND GREENHOUSES RESUBMISSION
08/27/2018	2	NJDEP AND GREENHOUSES RESUBMISSION
08/27/2018	1	BURL. CNTY. PER SUBMISSION
08/27/2018	1	NJDEP RESUBMISSION

PROJECT	MHFC1500
DATE	AUGUST 18, 2017
DRAWING SCALE	1"=30'
DRAWN BY	JRB
APPROVED BY	HJD
CM8001	
SHEET	12 OF 14

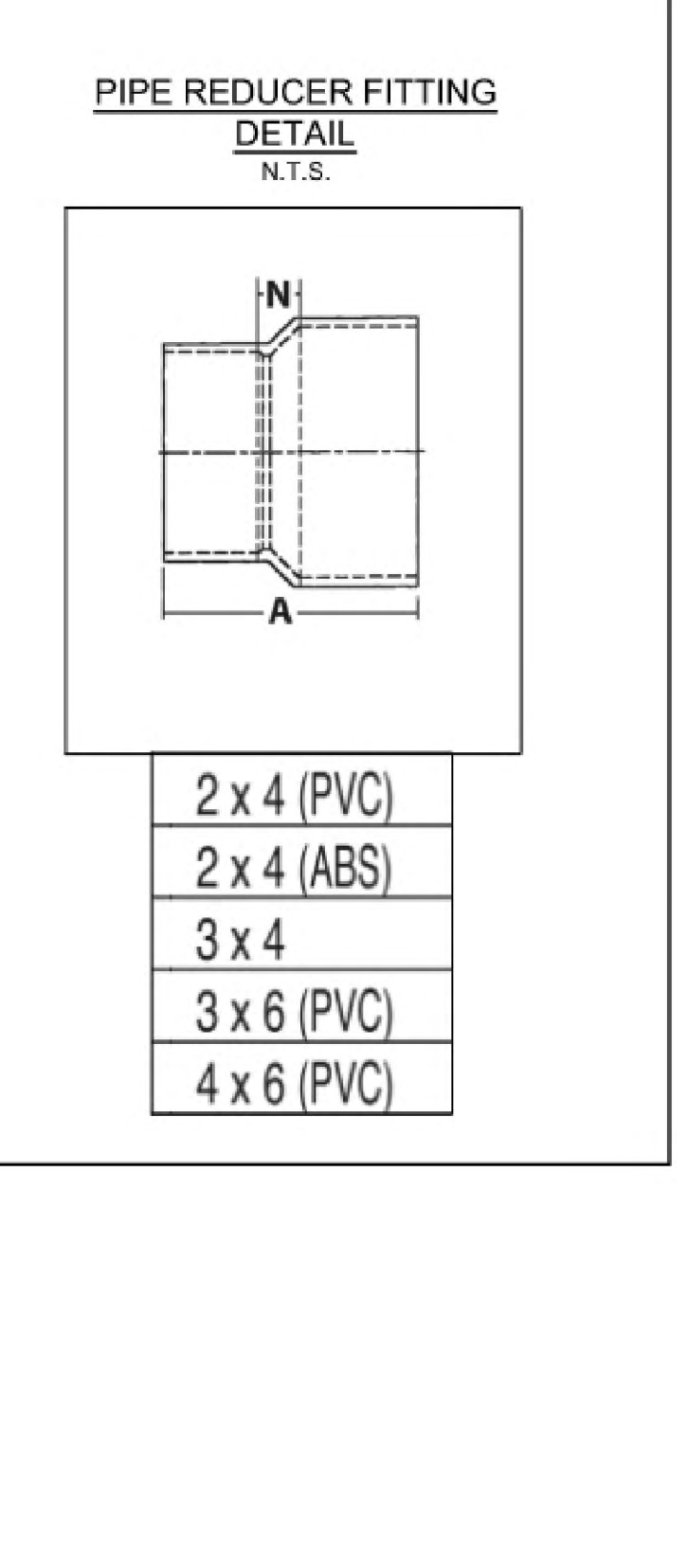
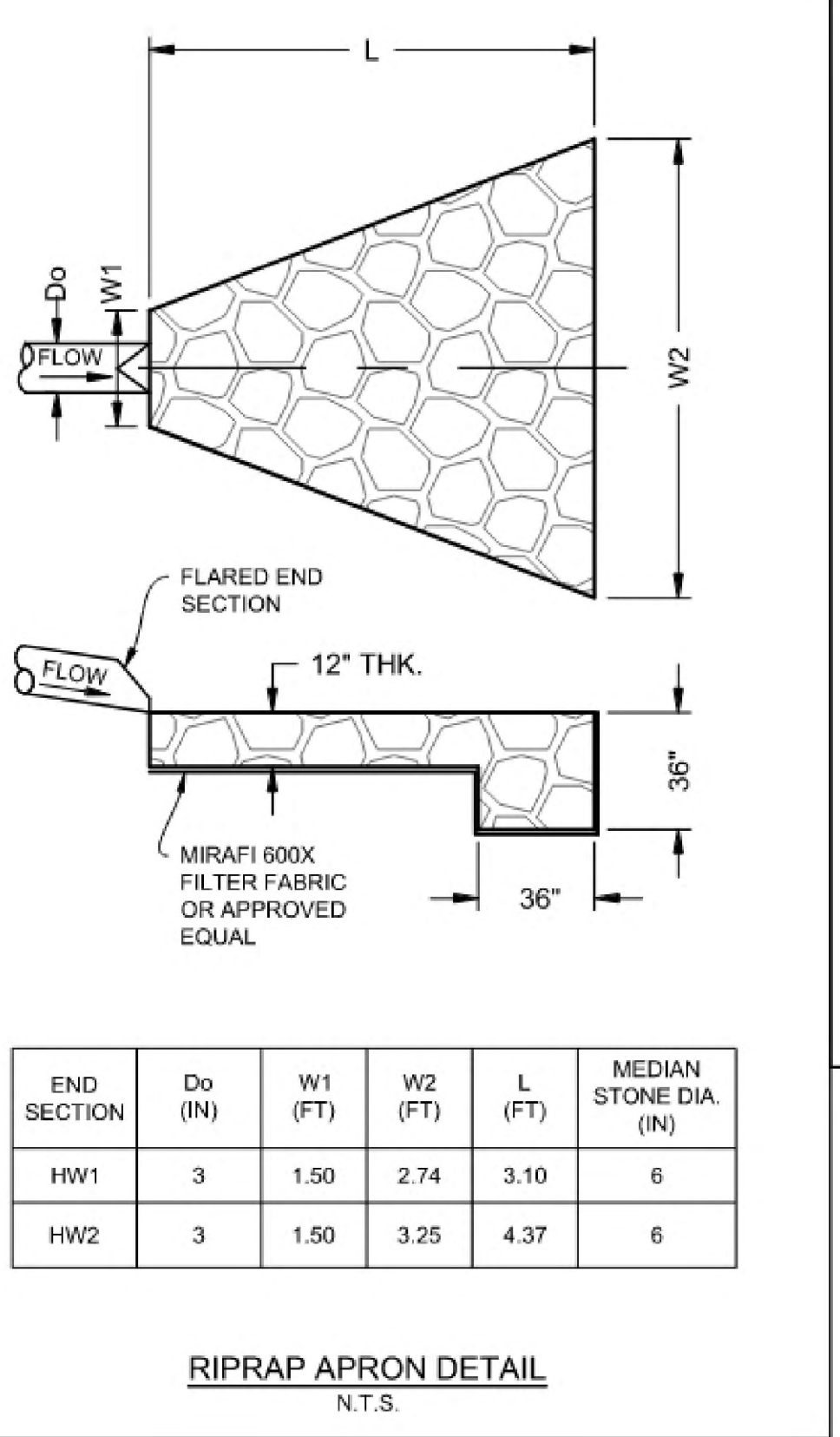
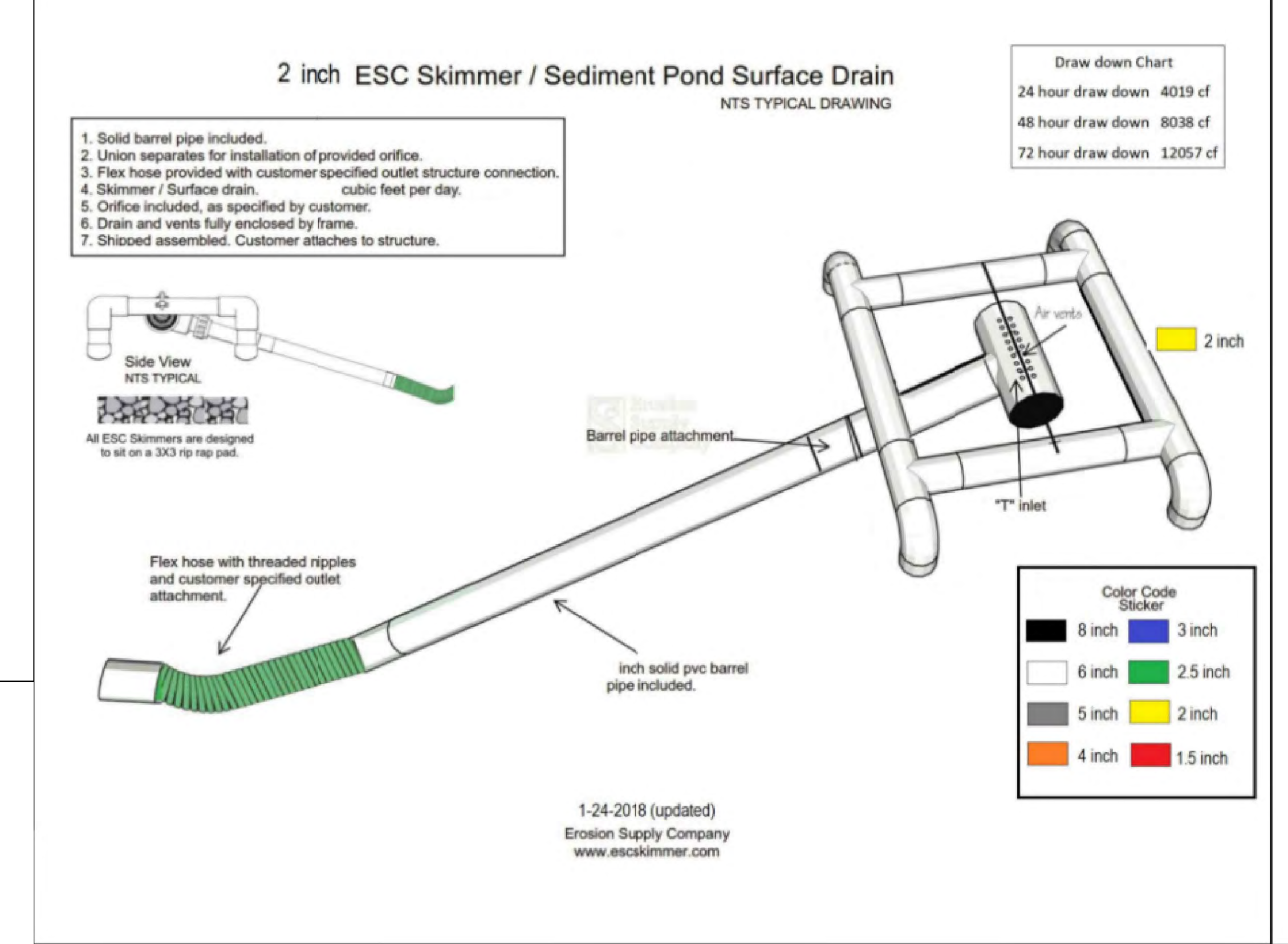
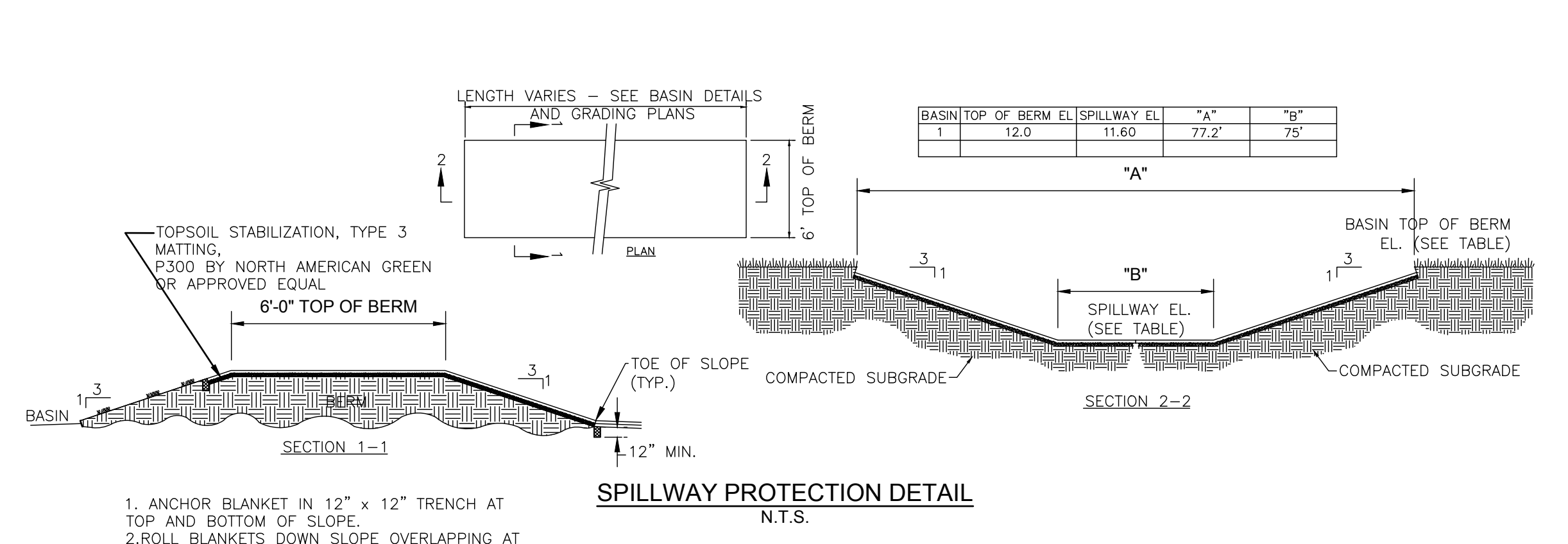
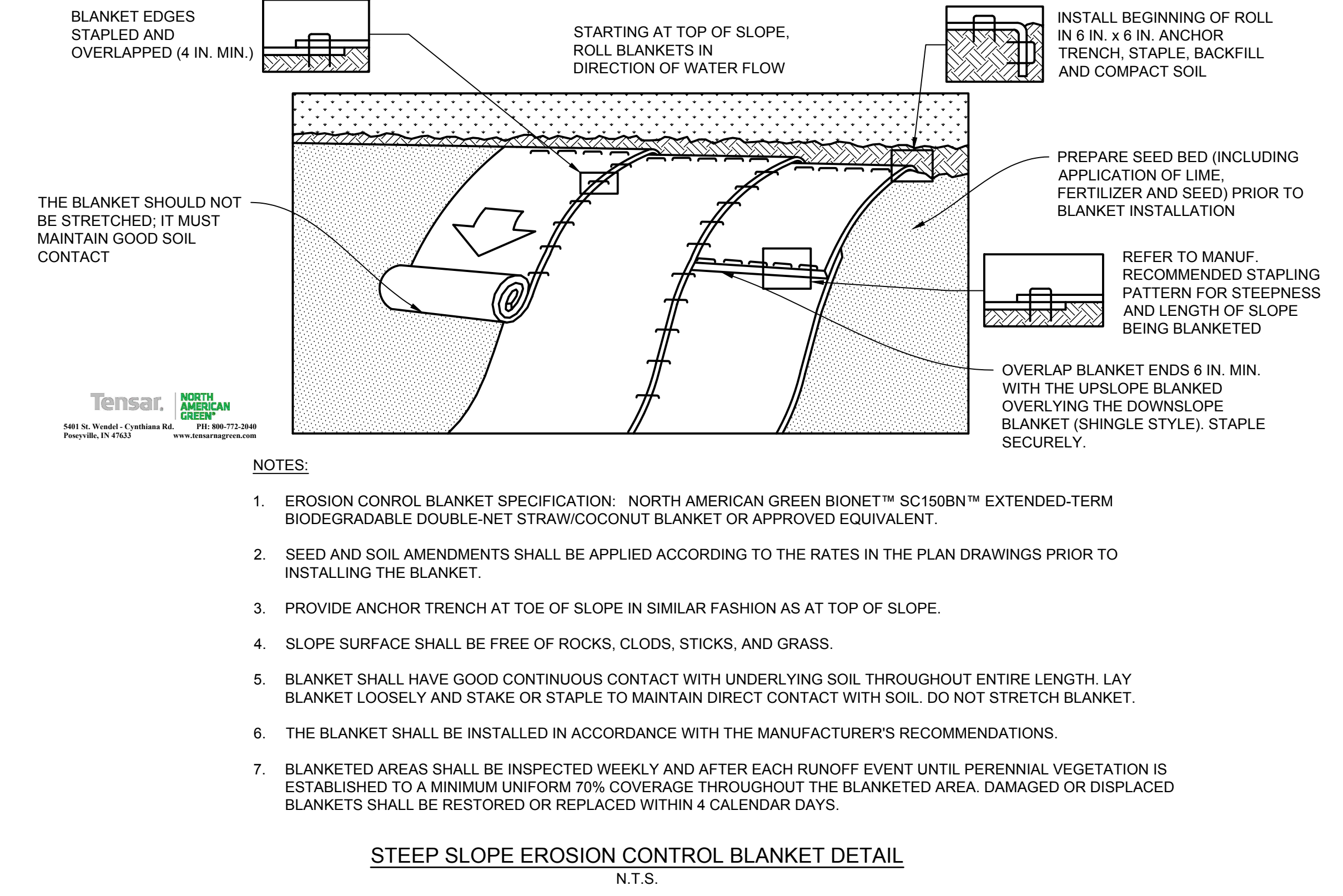
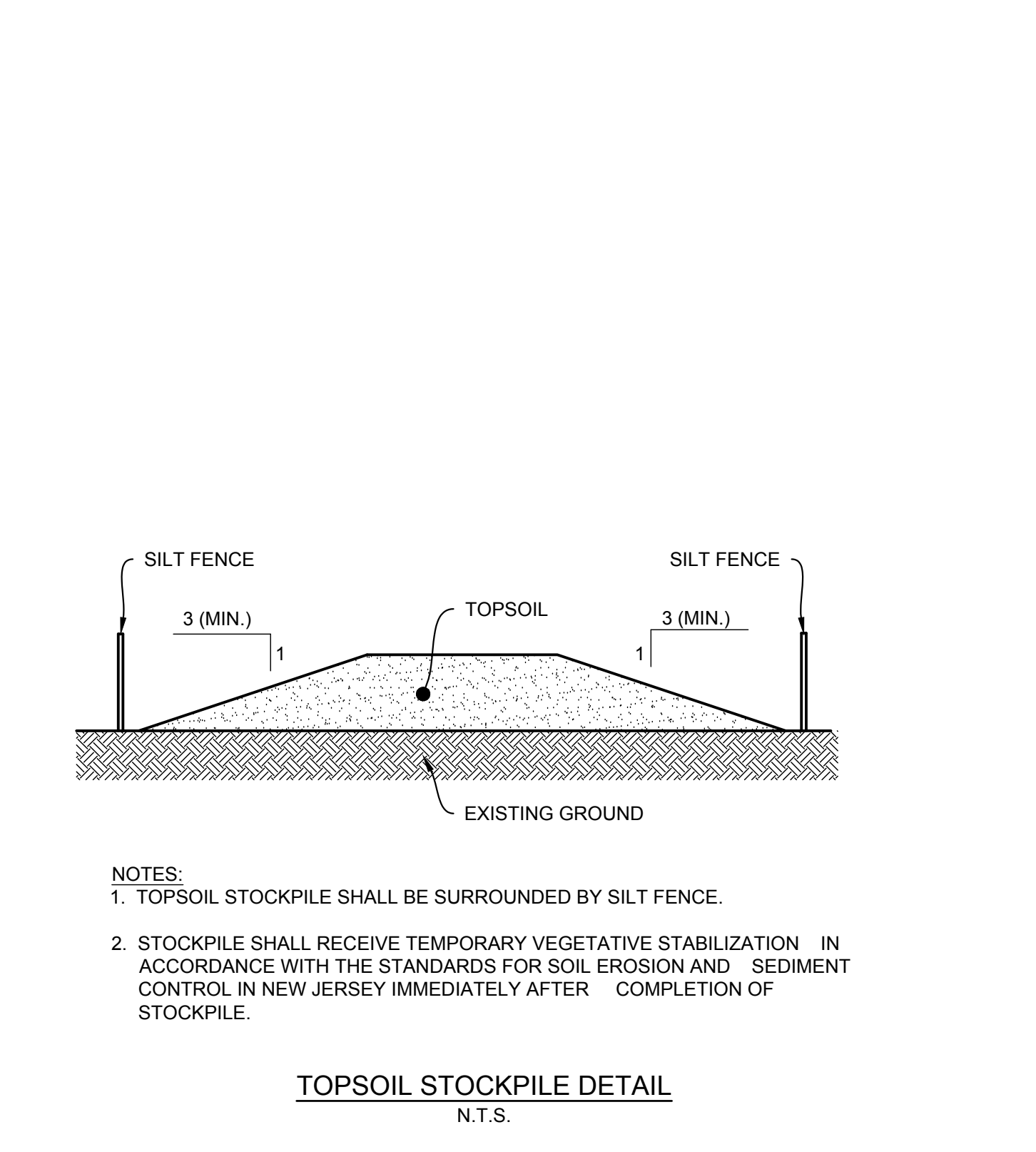
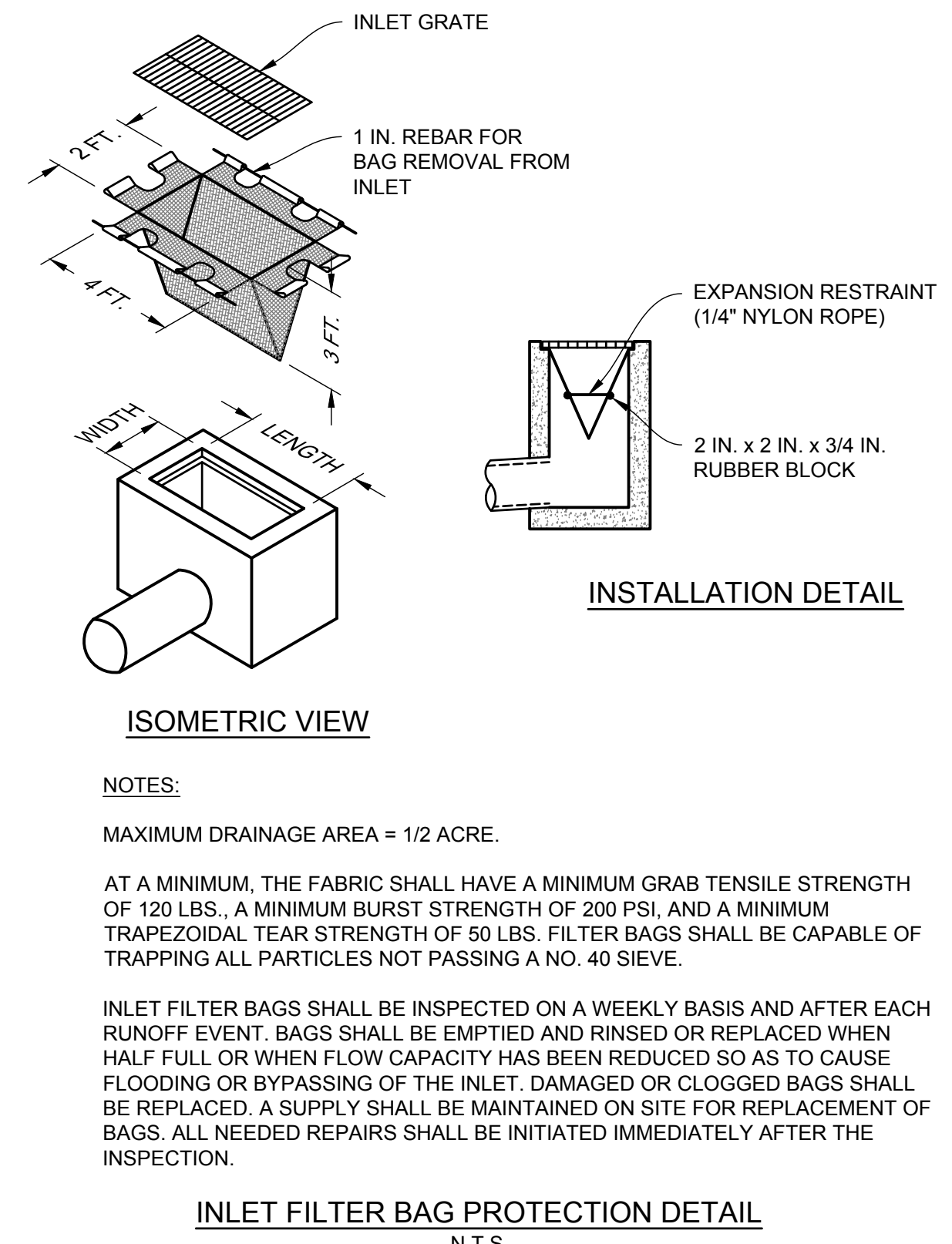
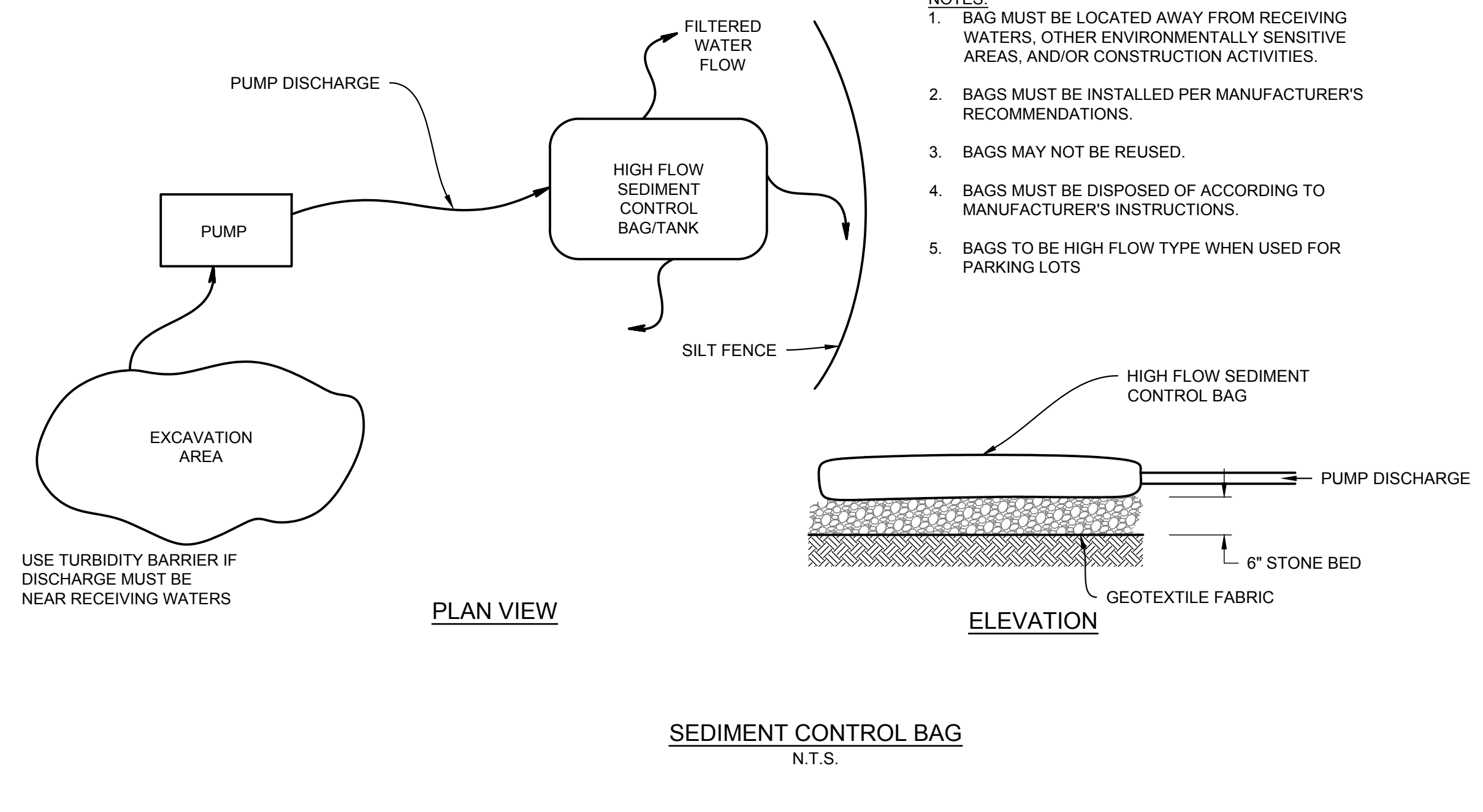
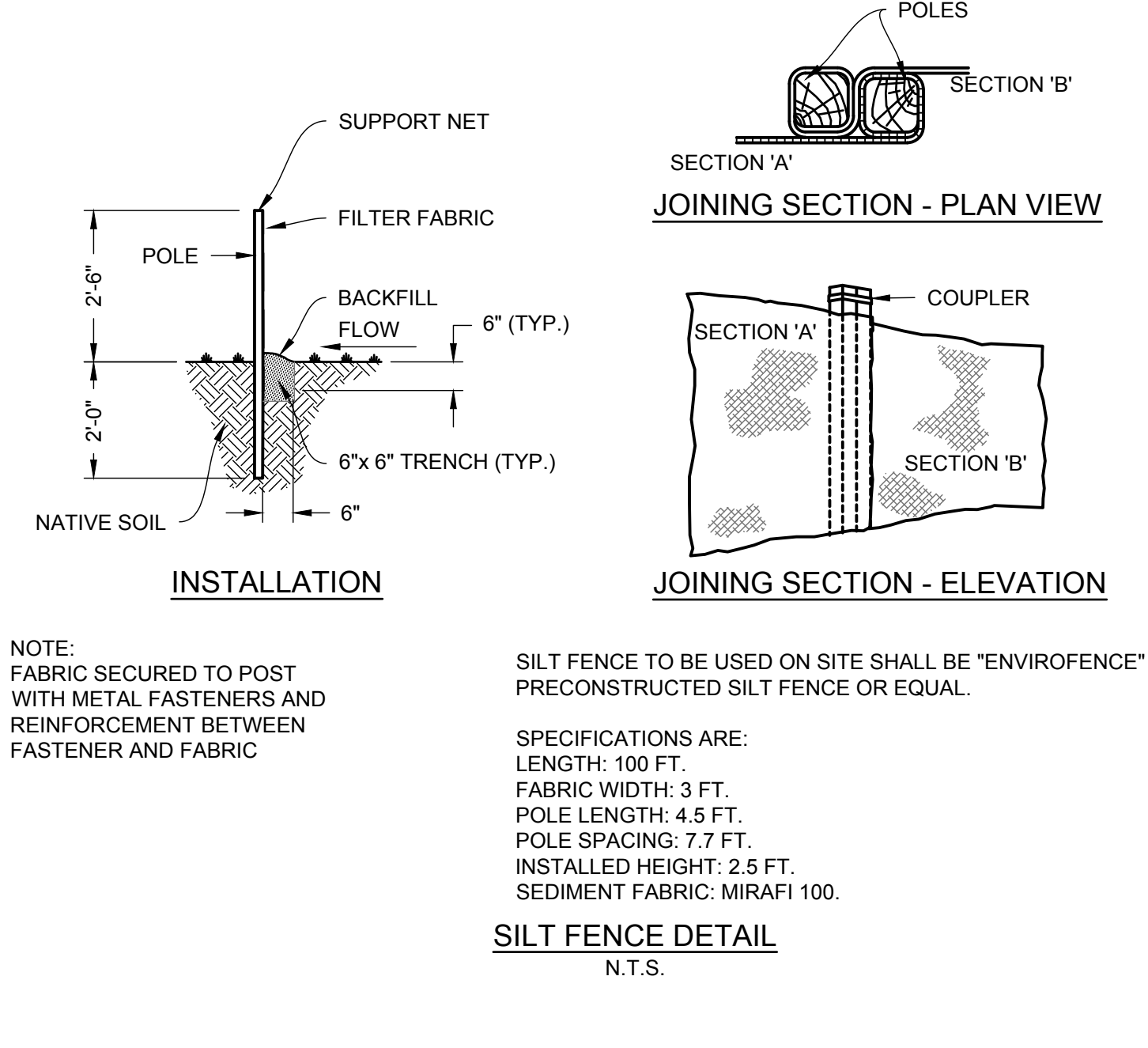
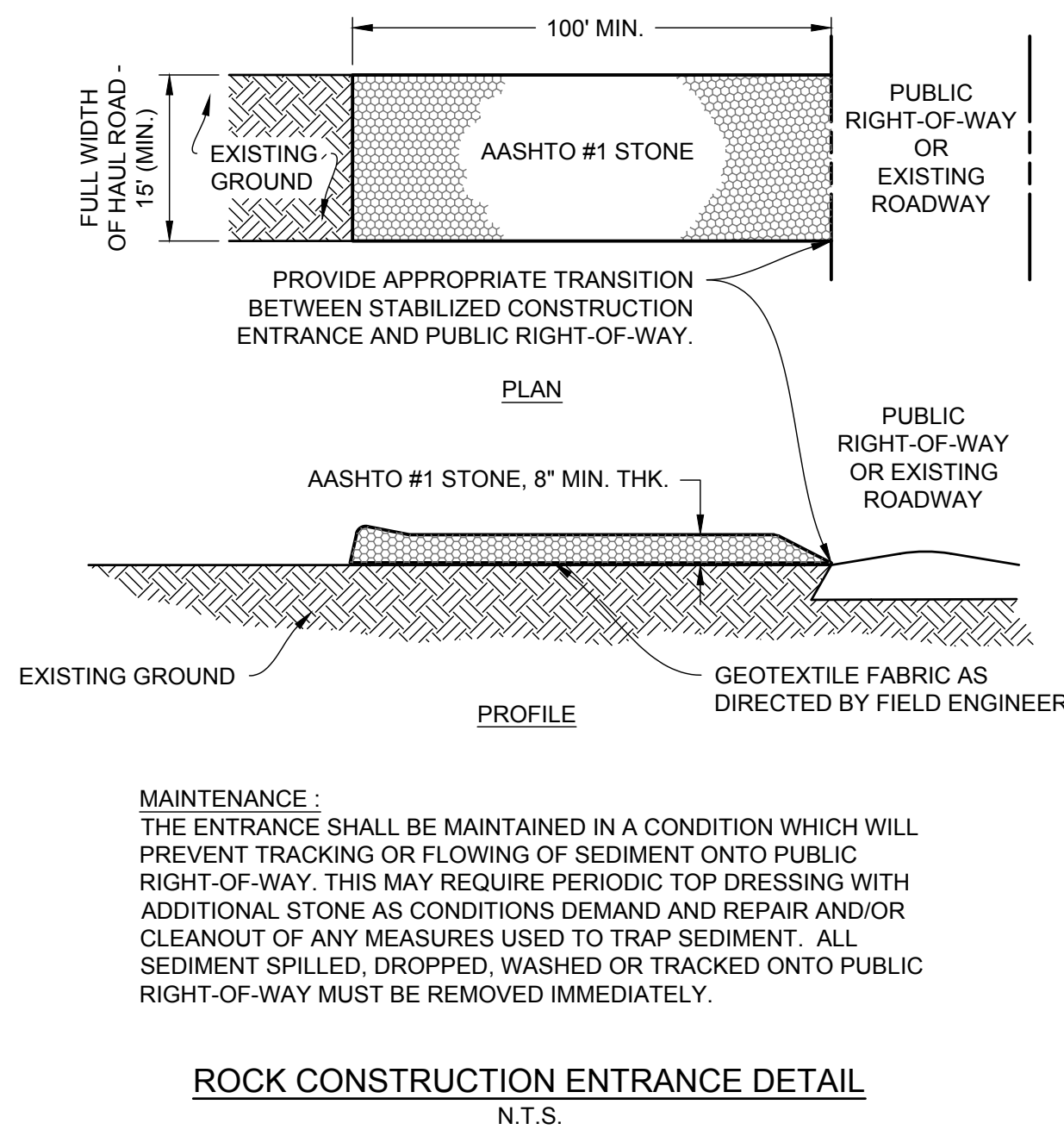
ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
 DISCREPANCIES BEFORE PROCEEDING WITH WORK

HUGH J. DOUGHERTY
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. GE34634

Hugh Dougherty

RELIEF FIREHOUSE
 17 PINE STREET
 BLOCK 88, LOTS 4, 5, 10, 11
 TAX MAP SHEET 26
 TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY
SOIL EROSION AND SEDIMENT CONTROL PLAN
 MOUNT HOLLY FIRE DISTRICT NO. 1
 P.O. BOX 741
 MOUNT HOLLY, NEW JERSEY 08060

Pennoni
PENNONI ASSOCIATES, INC.
 515 Grove Street, Suite 1B
 Haddon Heights, NJ 08035
 T 856.547.0505 F 856.547.9174
 NJ COA. NO. GA28633300



PROJECT STATUS: —

PLOTTED: 08/08/2018 03:10 PM BY: John Bailey, BUCKLE UP CONSULTANTS, INC.

NO.	ISSUED FOR REVISIONS	DATE	DESCRIPTION
01	ISSUED FOR BIDDING	07/09/2018	
02	REVISIONS	08/15/2018	1. BUREAU OF ENGINEERING
03	REVISIONS	08/15/2018	2. BUREAU OF ENGINEERING
04	REVISIONS	08/15/2018	3. BUREAU OF ENGINEERING
05	REVISIONS	08/15/2018	4. BUREAU OF ENGINEERING
06	REVISIONS	08/15/2018	5. BUREAU OF ENGINEERING
07	REVISIONS	08/15/2018	6. BUREAU OF ENGINEERING
08	REVISIONS	08/15/2018	7. BUREAU OF ENGINEERING
09	REVISIONS	08/15/2018	8. BUREAU OF ENGINEERING
10	REVISIONS	08/15/2018	9. BUREAU OF ENGINEERING

PROJECT: MHFC1500

DATE: AUGUST 18, 2017

DRAWING SCALE: 1"=30'

DRAWN BY: JRB

APPROVED BY: HUD

CM8502

SHEET 14 OF 14

PROJECT: MHFC1500

DATE: AUGUST 18, 2017

DRAWING SCALE: 1"=30'

DRAWN BY: JRB

APPROVED BY: HUD

CM8502

SHEET 14 OF 14



ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR DISCREPANCIES BEFORE PROCEEDING WITH WORK

HUGH J. DOUGHERTY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE34634

Hugh Dougherty

RELIEF FIREHOUSE
17 PINE STREET AND 23 TAX MAP SHEET 25
BLOCK 88, LOTS 4, 5, 10, 11
TOWNSHIP OF MOUNT HOLLY, BURLINGTON COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL DETAILS

MOUNT HOLLY FIRE DISTRICT NO. 1
P.O. BOX 741
MOUNT HOLLY, NEW JERSEY 08060

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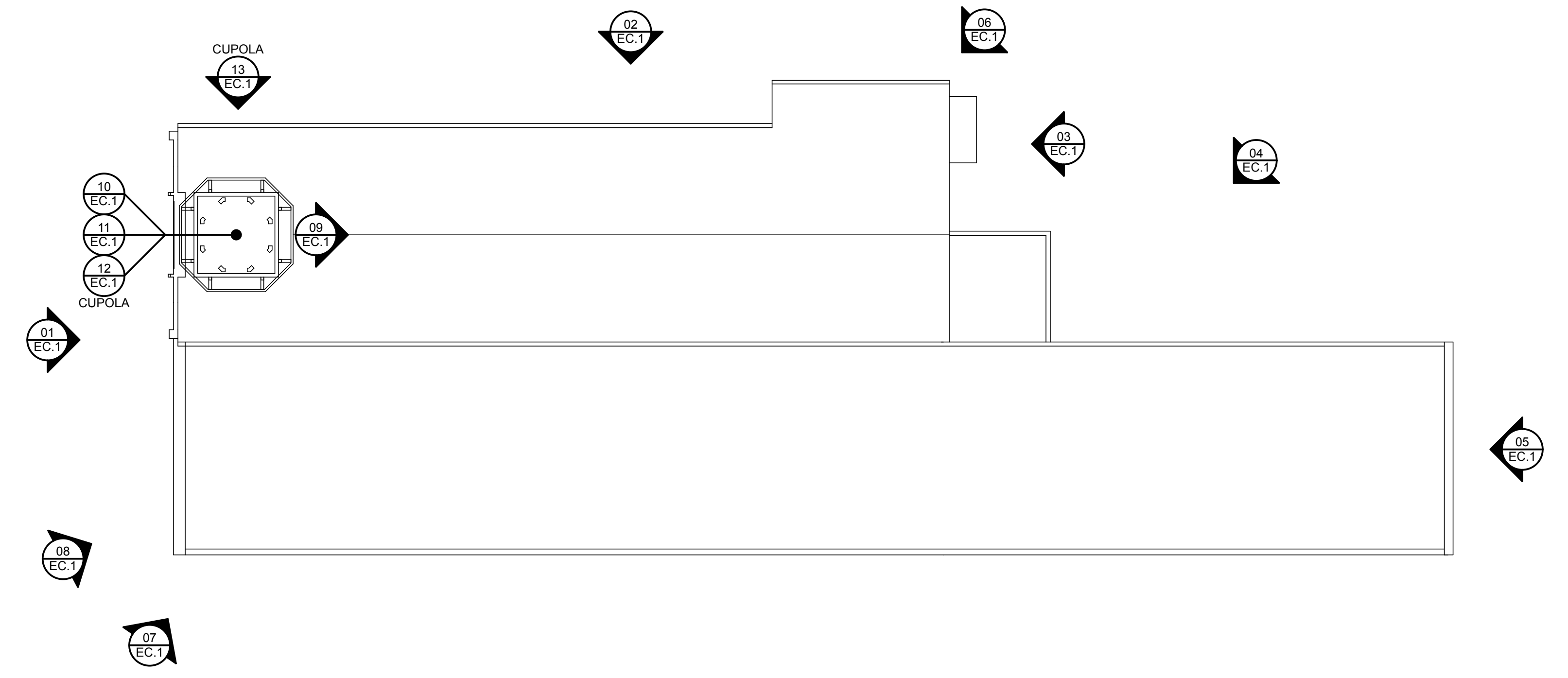
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05	08/15/2018	REVISIONS
06	08/15/2018	REVISIONS
07	08/15/2018	REVISIONS
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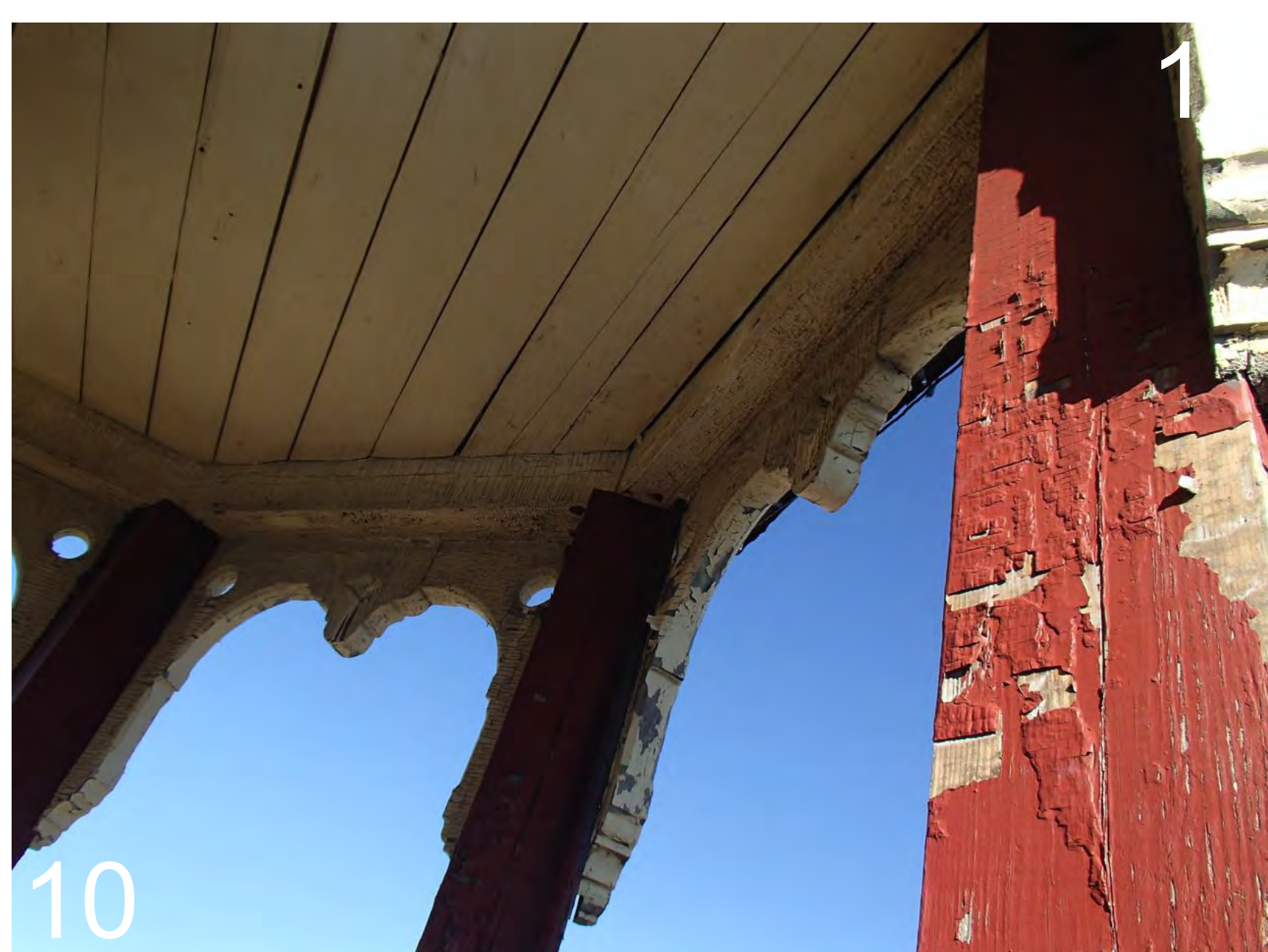
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REGAN YOUNG, AIA
21A00912100

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
466 HIGH STREET • MT. HOLLY, NEW JERSEY 08060 USA
+1(609)265-2652/0333FAX • 21A00912100 • RYEBREAD.COM

MTHAIR RELIEF ADDITION/RENOVATIONS
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.1 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY

TITLE: **EXISTING EXTERIOR PHOTOS**

DRAWING DATE:
01 JULY 2020

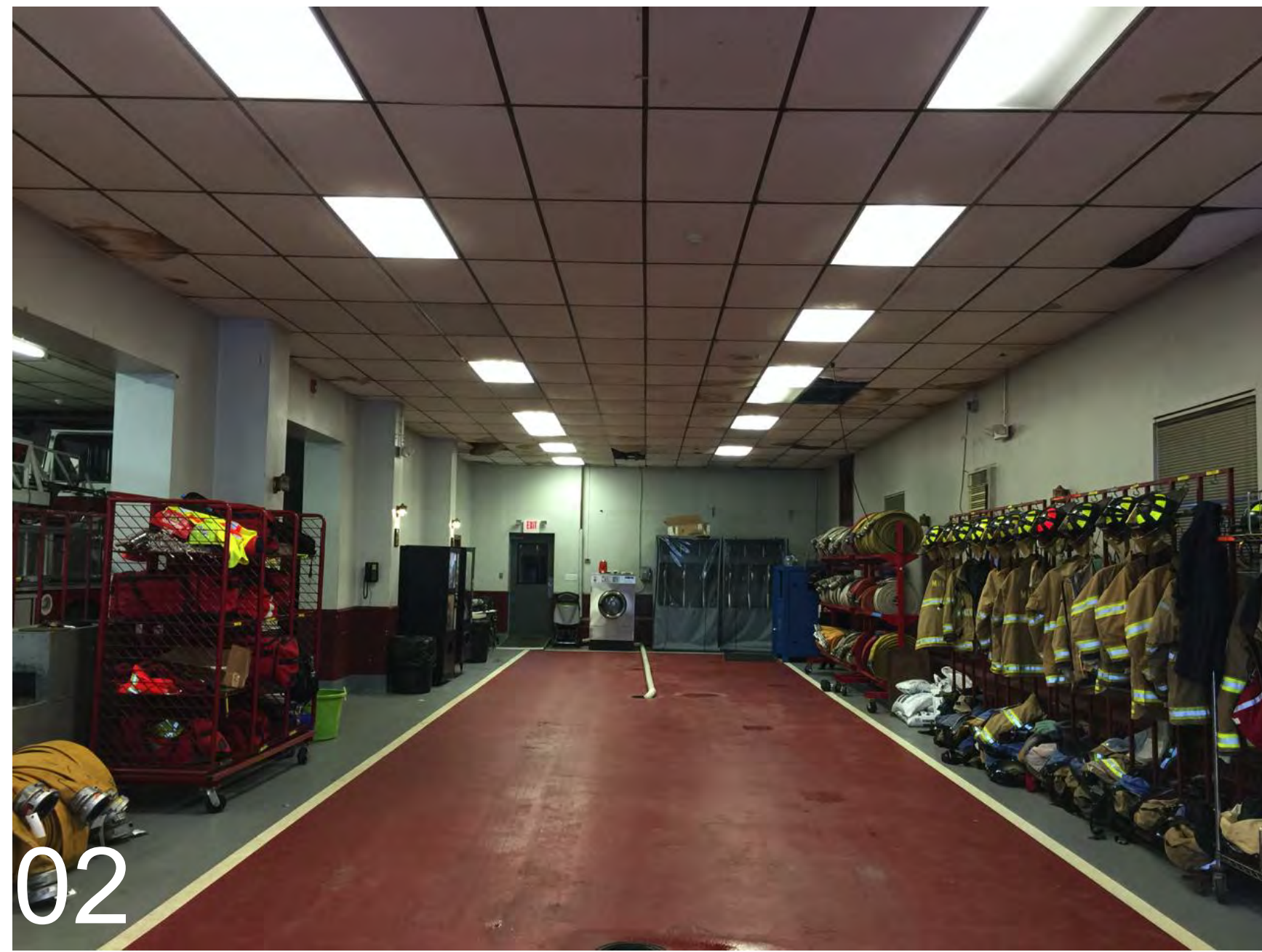
REVISION DATE:

DRAWN BY:
RR PF

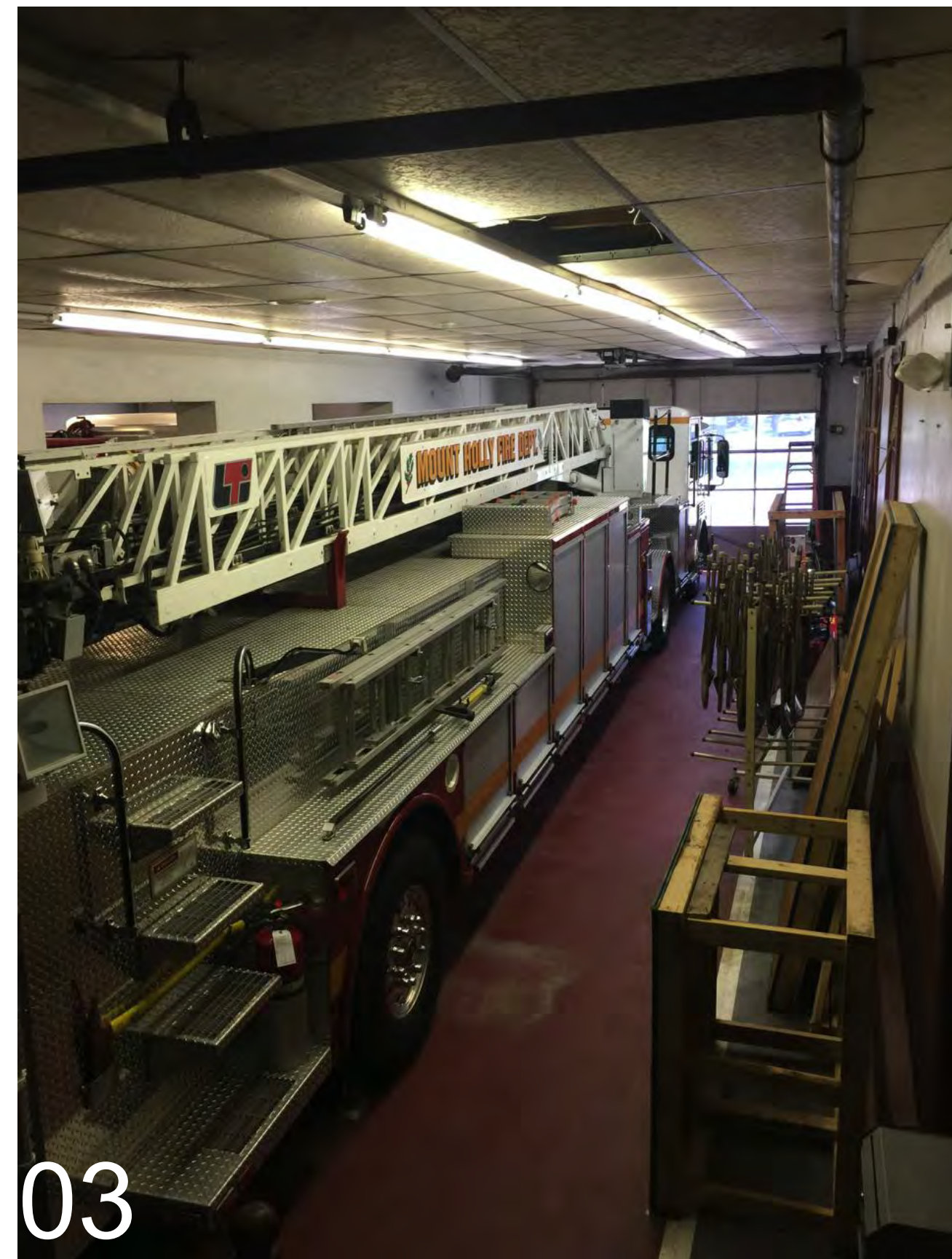
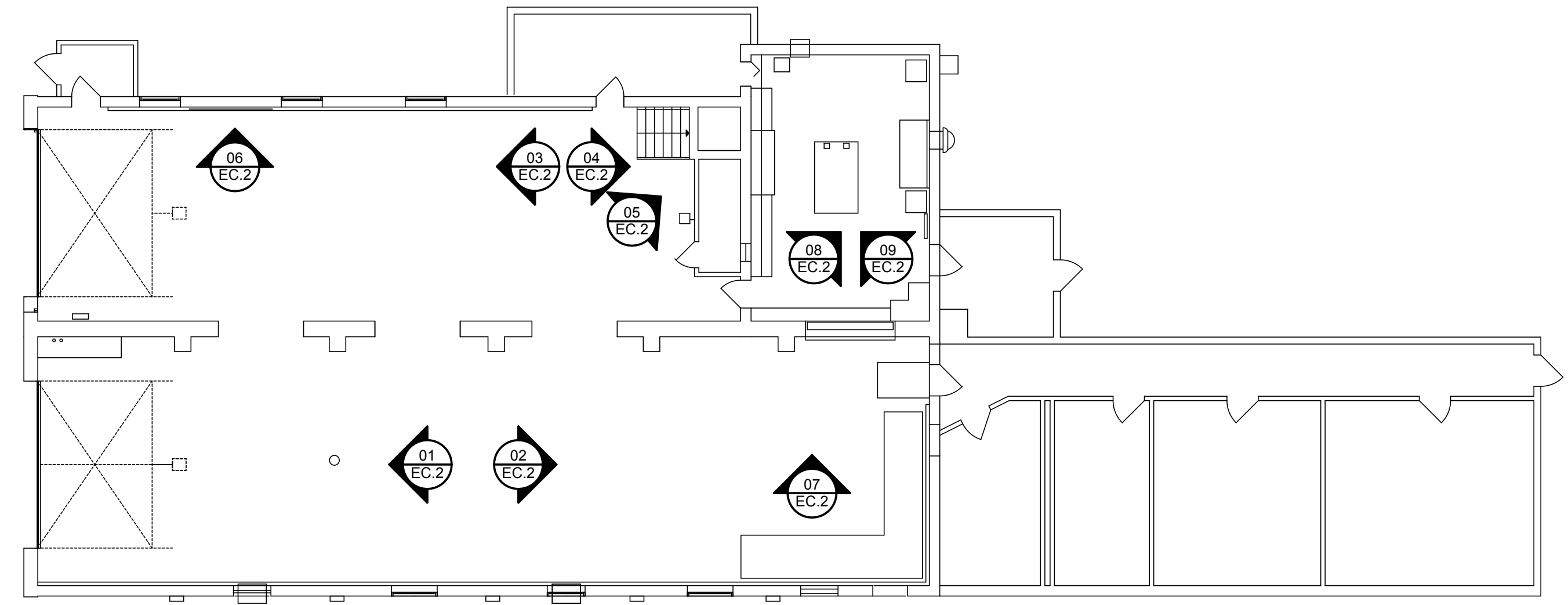
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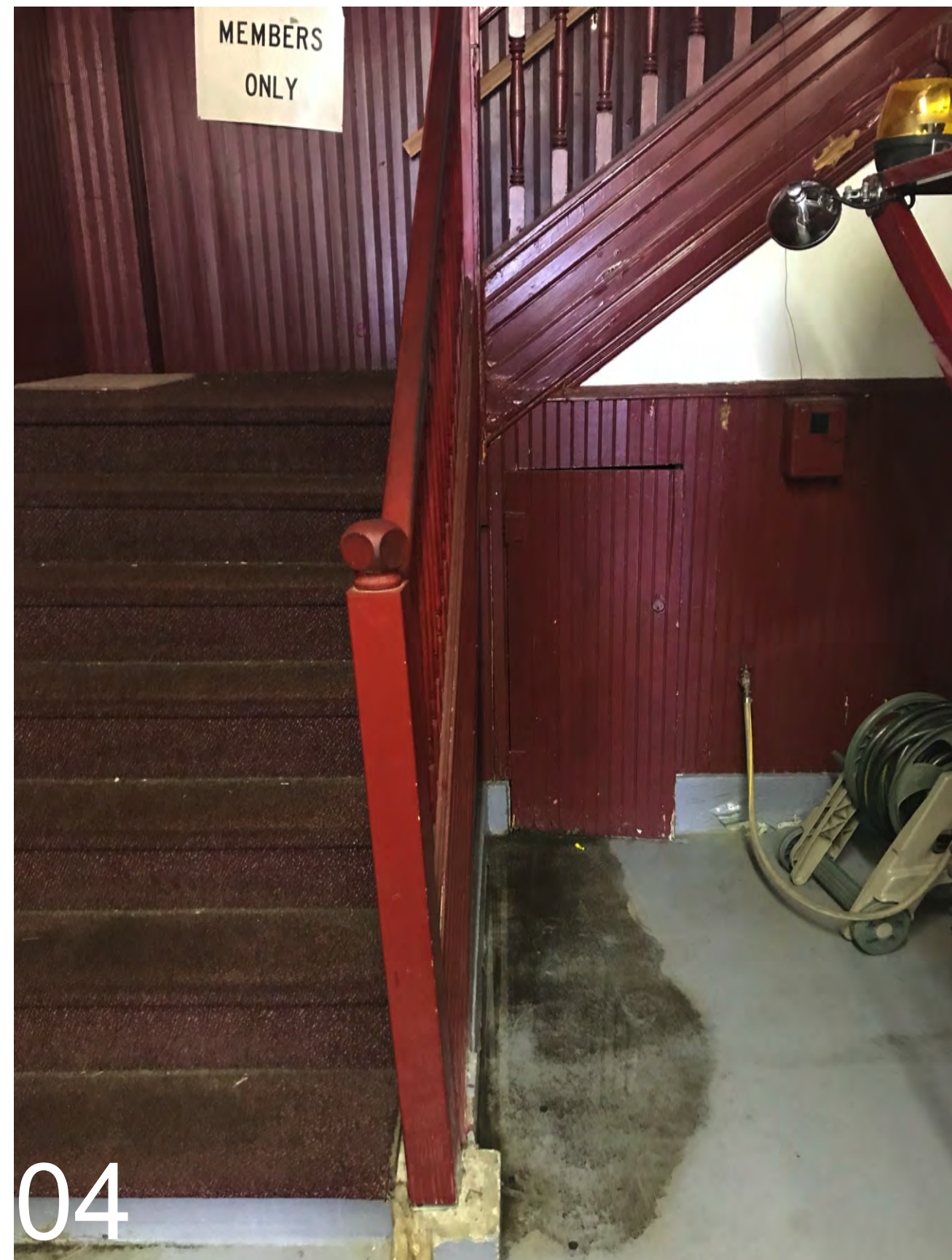
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REGAN YOUNG, AIA
21A00912100

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REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
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MTHFR RELIEF ADDITION/RENOVATIONS
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.1 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY

TITLE: **EXISTING INTERIOR PHOTOS**

DRAWING DATE:
01 JULY 2020
REVISION DATE:

DRAWN BY:
RR PF
COMMISSION NO.:
5475B

EC.2
2 OF 37



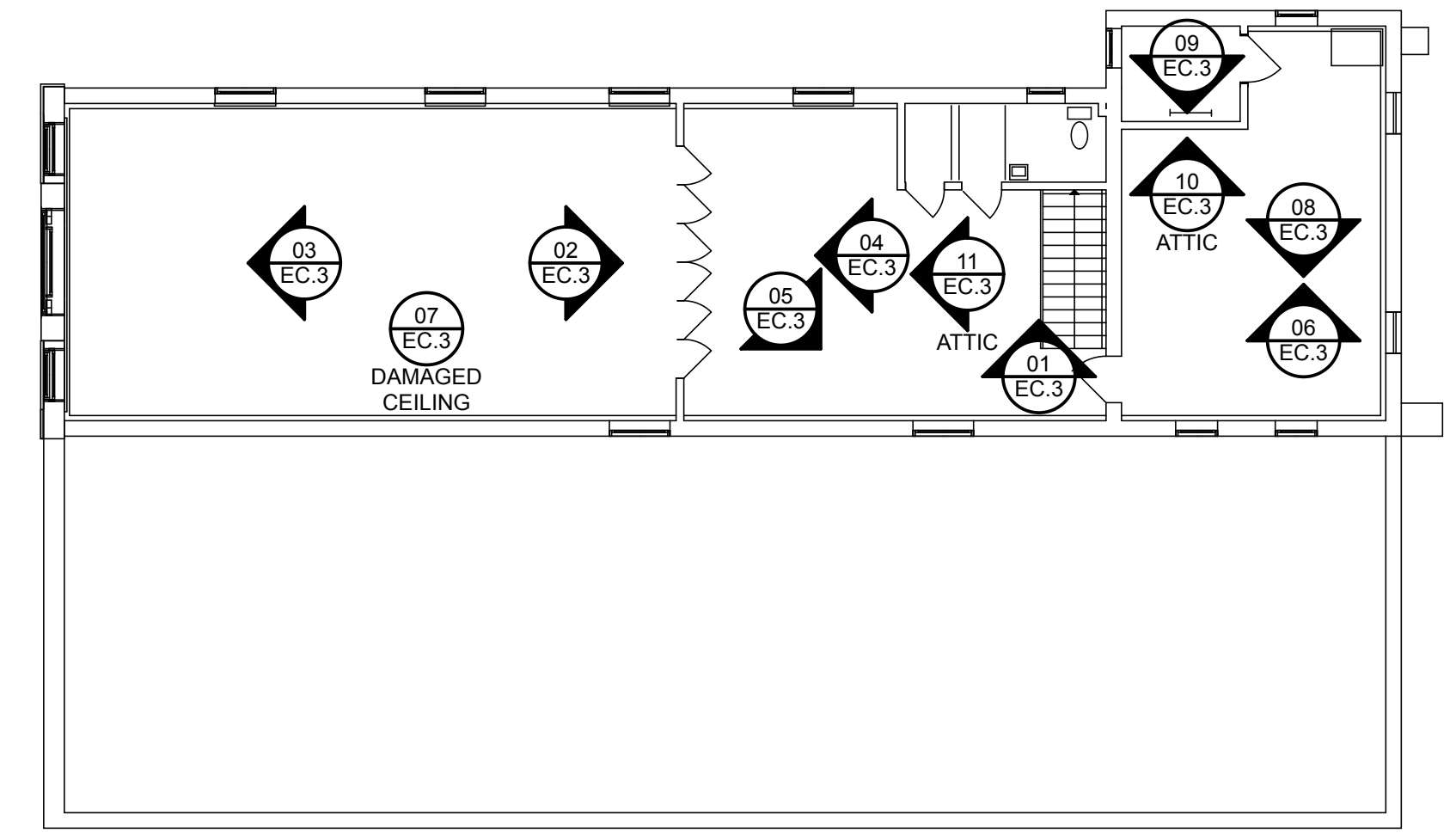
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REGAN YOUNG, AIA
21A00912100

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
466 HIGH STREET • MT. HOLLY, NEW JERSEY 08060 USA
+1(609)265-2652/0333FAX • 21A00912100 • RYE@REGAN.COM

MTHFR RELIEF ADDITION/RENOVATIONS
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.1 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: **EXISTING INTERIOR PHOTOS**

DRAWING DATE:
01 JULY 2020
REVISION DATE:

DRAWN BY:
RR PF
COMMISSION NO.:
5475B

EC.3
3 OF 37

1000.0 Administration
(Not Applicable)

1000.0 NJUCC Excerpts

5:23-2.1(c) *New Jersey Uniform Construction Code (NJUCC)* shall control all matters concerning construction, alteration, addition, repair, removal, demolition, use, location, and occupancy of all buildings and structures and their service equipment, and shall apply to existing or proposed buildings and structures in the State of New Jersey.

5:23-2.5 As the building is being increased in floor area, the increased portion of the structure shall conform to the *NJUCC* requirements applicable to new construction, while any related work within the existing structure shall conform with the *NJUCC* 5:23-6, *Rehabilitation Subcode*.

5:23-2.15 Application for a Construction Permit shall be submitted by the Contractor(s) per *NJUCC* Section 5:23-2.15.

5:23-2.16(h) A true copy of the construction permit shall be kept on the site of operations open to inspection during the entire time of prosecution of the Work and until the completion of the same.

5:23-2.16(f) At Least 24 hours notice of start of work under a construction permit shall be given to the Construction Official.

5:23-2.16(j) The issuance of the construction permit shall be conditioned upon payment of appropriate fees, the Contractor's & Owner's assurance that the Work will conform to the requirements of the Code applicable to the Work for which the permit has been issued, including prior approvals and any approved amendments thereto, that the permit is a license to proceed with the Work and shall not be construed as authority to violate, cancel, or set aside any of the provisions of the regulations, that the Owner & Contractor will assist the Enforcing Agency in its inspection work, and that all crows required to be paid by the applicant in connection with the Work have been paid.

5:23-2.18(b) The Construction Official and appropriate Subcode Officials shall carry out periodic inspections during the progress of the Work to ensure that Work inspected conforms to the requirements of the Code.

5:23-2.18(b)2 Inspections for all subcodes of construction shall be limited to those required for one- and two-family dwellings plus the following: fire suppression systems; heat producing devices; and any special inspections required by any subcode of the regulations. The mid-point inspection shall include a review for compliance with *IBC/NJ* Chapter 11.

5:23-2.18(c) The Contractor shall notify the enforcing agency when the Work is ready for any required inspection specified by the *NJUCC* or required by the Construction Official or appropriate Subcode Official. This notice shall be given at least 24 hours prior to the time the inspection is desired. This notice shall represent an attestation on the part of the Contractor that the Work has been completed in conformance with the *NJUCC* and is ready for inspection.

5:23-2.18(c)2 The Contractor shall allow for Code Inspections to be performed within three business days of the time for which they are requested. The Work shall not proceed in a manner that will preclude the inspection until it has been made.

5:23-2.18(d) Upon completion of the Work, and before the issuance of a Certificate of Use and Occupancy required by the *NJUCC*, a final inspection shall be made, and any violations of the code shall be noted and the holder of the permit shall be notified of any discrepancies by the Construction Official.

5:23-2.21(e)4 The Contractor shall perform the necessary services and be present on the construction site on a regular and periodic basis to determine that the Work is proceeding in accordance with the *NJUCC* and any conditions of the construction permit.

5:23-2.21(d) At the completion of the construction, the Contractor shall submit to the Construction Official a report as to the satisfactory completion and the readiness of the project for occupancy and shall certify that, to the best of his/her knowledge and belief, such has been done substantially in accordance with the *NJUCC* and with the plans and specifications, with any substantial deviations noted.

5:23-2.21(e) The actual construction of the Work shall be the responsibility of the Contractor(s) as identified on the approved construction permit, and shall involve execution of the Work in accordance with the regulations, execution & control of all methods of construction in a safe & satisfactory manner, and execution all Work in accordance with the *NJUCC* and those portions of the plans and specifications controlled by the *NJUCC*. The Contractor(s) shall render all such construction services as required to effect a safe & satisfactory installation of the project.

5:23-2.21(e)5 Upon completion of the construction, the Contractor(s) shall certify to the best of their knowledge & belief that such has been done substantially in accordance with the *NJUCC* and with those portions of the plans & specifications controlled by the *NJUCC*, with any substantially deviations specifically noted.

5:23-2.23(d) No Addition which increases the height or area of an existing building or structure shall be used until a Certificate of Occupancy shall have been issued by the Construction Official certifying that the Work has been completed in accordance with the provisions of the *NJUCC*, except as otherwise provided in their rules.

5:23-2.29(a) The Owner of any premises upon which a building or structure is to be constructed shall be deemed to have consented to inspection, by the Enforcing Agency, of the entire premises and of any construction being performed on it until a Certificate of Occupancy has been issued.

5:23-3.5(a) Every building and structure and part thereof designed for business, factory, and industrial, high hazard, mercantile, or storage use (Use Groups B, F, H, M, & S) as defined by the *IBC/NJ* shall be posted on all floors by the Owner with a suitably designed placard in a form designated by the Building Subcode official, which shall be securely fastened to the structure in a readily visible place, stating the Use Group, and the maximum allowable Live Load & Occupancy Load.

5:23-3.5(b) Every building and structure and part thereof designed for use as a place of public assembly or as an institutional building for harboring people for penal, correctional, educational, medical, or other care or treatment (Use Groups A, E, & I) shall be posted with an approved placard designating the maximum Occupancy Load.

5:23-3.5(c) All posting signs shall be furnished by the Owner and shall be of permanent design; they shall not be removed, or defaced and, if lost, removed or defaced, shall be immediately replaced.

5:23-3.14(a)1 The Building subcode for new construction is the *International Building Code/2018, New Jersey Edition (IBC/NJ)*, as adopted by *NJUCC*.

5:23-3.15(a)1 The Plumbing subcode for new construction is the *National Standard Plumbing Code/2018 (NPC)*, as adopted by *NJUCC*.

5:23-3.16(a)1 The Electrical subcode for new construction is the *National Electrical Code/2017 (NEC)*, as adopted by *NJUCC*.

5:23-3.17(a)1 The Fire Protection Subcode shall be those portion of subcodes as adopted by *NJUCC* 5:23-3.17.

5:23-3.18(a)1 The Energy subcode for new construction is ASHRAE Standard 90.1 (*ASHRAE*), as adopted by *NJUCC*.

5:23-3.20(a)1 The Mechanical subcode for new construction is the *International Mechanical Code/2018 (IMC)*, as adopted by *NJUCC*.

5:23-3.22(a)1 The Fuel Gas subcode for new construction is the *International Fuel Gas Code/2018 (IFGC)*, as adopted by *NJUCC*.

5:23-6.3(a) Because the extent and nature of the Work on the existing building involves the removal and replacement or covering of existing interior or exterior finish, trim, doors, windows, or other materials with new materials that serve the same purpose and do not change the configuration of space, the project shall be deemed "Renovations".

5:23-6.5(e) The Work shall not cause any diminution of existing structural strength, system capacity, or mechanical ventilation below that which exists at the time of application for a permit, or that which is required by the applicable subcodes of the *NJUCC*, whichever is lower. The replacement of fixtures, equipment, or appliances shall not increase loads on these systems unless the system is upgraded in accordance with the applicable subcode of the *NJUCC* to accommodate the increased load.

5:23-6.5(e)1 Newly introduced fixed loads shall not exceed the uniformly distributed live loads or concentrated live load criteria of Table 1607.1 of *IBC/NJ* and shall not create deflection that exceeds the standards set forth in *NJUCC* 5:23-6.5(c)1.i,ii&iii. Fixed loads shall mean uniform or concentrated loads and shall include but not be limited to, equipment, files, library stacks, or similar loading conditions.

5:23-6.5(e)1.1 For wood frame construction, deflection shall not exceed L/180 for roofs with a slope of 3 in 12 or less or L/120 for roofs with a slope of greater than 3 in 12 and for floors.

5:23-6.5(e)3 No work shall be undertaken that diminishes accessibility below that which is required by the *IBC/NJ Chapter 11, Accessibility*.

5:23-6.5(d)1-4 The following products and practices shall not be used: 1) wood paneling used as an interior finish not in conformance with *NJUCC* 5:23-6.11; Table 2) carpeting used for floor covering that fails to meet the DOC FF-1 "Pill Test"; 3) unlisted or unapproved electrical products, and, 4) plumbing materials listed under *NJUCC* 5:23-6.5(d)4.

5:23-6.5(d)7 A mirror shall not be placed in or adjacent to any means of egress so as to confuse the direction of egress or give the appearance of a doorway, exit, or passageway. Draperies or similar hangings shall not obscure an exit.

5:23-6.5(e)3.1 When replacement doors are installed in buildings required to comply with the *IBC/NJ Chapter 11, Accessibility*, replacement hardware shall comply with *ICC/ANSI A117.1, Section 404.2.6*.

5:23-6.5(e)4 Replacement glass shall comply with the "Safety Glazing" requirements of the *IBC/NJ* and shall be installed in the "Specific Hazardous Locations" as specified by *IBC/NJ* Sections 2406.4 & 2406.5.

5:23-6.5(e)5 Where a fireproofing material is removed that is integral to the rating of an existing fire-rated assembly, the material shall be replaced so that the rating is preserved.

5:23-6.5(e)8 When a new refrigerant is introduced, the requirements of the *International Mechanical Code (IMC)* applicable to that refrigerant shall be met. This shall apply to the installation of new equipment, the replacement of existing equipment with equipment using a different refrigerant, or the replacement of the refrigerant in existing equipment with a different refrigerant.

5:23-6.5(e)9 When the work being performed exposes wood framing of any wall, floor, ceiling, or roof, fireblocking shall be provided as required by *IBC/NJ* Section 718.2. The fireblocking material shall comply with *IBC/NJ* Section 718.2.1.

5:23-6.5(e)10 When the work being performed exposes the roof decking/sheathing or the framing of any wall, floor, ceiling, or roof assembly that is part of the building thermal envelope (encloses conditioned space) any accessible voids in insulation shall be filled using insulation meeting the R-values of Table 5.5-4 or 5.5-5 of the *Commercial Energy Code*.

5:23-6.5(e)11 When the fenestration (windows, skylights, or doors) is newly installed or replaced, the U-factor (thermal transmittance) shall not exceed the U-factor of Table 5.5-4 or 5.5-5 of the *Commercial Energy Code*.

5:23-6.5(e)12 Ducts that are newly installed or replaced shall be installed with insulation meeting Section 6.4.4.1.2 of the *Commercial Energy Code*.

5:23-6.5(e)13 The total replacement of a building lighting system or newly installed lighting system shall meet Section 9.1.2 of the *Commercial Energy Code*.

5:23-6.5(e)14 In buildings containing a fuel burning appliance or having an attached garage, carbon monoxide detection equipment shall be installed in accordance with *IBC/NJ* Section 915.

5:23-6.5(h) All materials and methods used shall comply with requirements specified in *NJUCC* 5:23-6.8, *Materials & Methods*.

5:23-6.5(h)2 Newly installed and replacement handrails and guardrails shall comply with *IBC/NJ* Sections 1011.11, 1012.8, 1014, and 1015, respectively. Where 50% or more of a handrail or guardrail on a flight or on a level is replaced, then this shall be considered a complete replacement and shall comply with the above referenced sections. The repair or replacement of less than 50% of a handrail or guardrail shall be permitted to match the existing handrail or guardrail.

5:23-6.9(a)15 Newly created stages, platforms, and technical production areas shall comply with *IBC/NJ* Section 410.

5:23-6.9(a)24 Newly installed (note replacing an existing device) electrical service equipment, switchboards, panelboards, motor control centers, and other electrical equipment containing overcurrent, switching, or control devices likely to require examination, adjustment, servicing, or maintenance while energized shall conform with the requirements specified in *NJUCC* 5:23-6.8, *Materials & Methods*, and, in addition, shall conform with the requirements specified in Sections 110.26 (Space About Electrical Equipment – 600 Volts, Nominal or Less), 110.32 (Work Space About Equipment – Over 600 Volts, Nominal), 110.33 (Entrance and Access to Work Spaces), 404.8 (Accessibility and Grouping), and 408.18 (Clearances), as applicable, of the *NEC*.

5:23-6.9(a)24.ii Newly installed panelboards (not replacements) shall comply with *ICC/ANSI A117.1* Sections 309.2 and 309.3

5:23-6.9(a)25 Newly installed (note replacing an existing device) heating, air conditioning, or refrigeration equipment likely to require examination, adjustment, servicing, or maintenance shall conform with the requirements specified in *NJUCC* 5:23-6.8, *Materials & Methods*, and, in addition, shall conform with Section 210.63 (Heating, Air Conditioning, and Refrigeration Equipment Outlet) and, if newly installed in an attic, underfloor space, utility room, or basement, Section 210.70 (Lighting Outlets Required), as applicable, of the *NEC*.

5:23-6.9(a)29 Newly installed heating and cooling equipment shall have controls meeting Sections 6.4.3, 6.5, 7.4.4, and 7.4.6 of the *Commercial Energy Code*, as applicable. Systems include, but are not limited to, the heating and cooling of air or liquids and the ventilation or exhausting of spaces.

5:23-6.9(a)30 Newly installed systems that included piping carrying fluids shall meet Section 6.4.4.1.3 or Section 7.4.3 of the *IMC*, as applicable.

5:23-6.9(a)31 Newly installed heating and cooling equipment shall be sized in accordance with Sections 6.4.2.1, and 7.4.1 of the *Commercial Energy Code*.

0300.0 Use & Occupancy Classification

0301.1 The following Use Classifications apply to this project:

0303.3 Because the existing building will include assembly spaces similar to community halls, lecture halls, and museums, it shall be classified per the *IBC/NJ* as Use Group A-3, Assembly.

0303.1.2 A room or space used for Assembly purposes with an Occupant Load of less than 50 persons and accessory to another occupancy shall be classified per the *IBC/NJ*, as Use Group B, Business.

0304.1 Because this new support space will be used for office, professional or service-type transactions, its use shall be classified per the *IBC/NJ*, as Use Group B, Business.

0310.3 Because this new support space will be also house bank rooms for sleeping, this portion of its use shall be classified per the *IBC/NJ*, as Use Group R-2, Residential.

0311.3 Because this new equipment bays' use is similar to a parking garage, they shall be classified per the *IBC/NJ*, as Use Group S-2, Low-Hazard Storage.

0400.0 Special Detailed Requirements Based on Use & Occupancy

0406.2.1 Automatic garage door openers shall be listed and labeled in accordance with UL 325.

0406.2.4 Motor-Vehicle Occupancies floor surfaces shall be of concrete or similar approved noncombustible and nonsorbent materials. The area of floor used for the parking of automobiles or other vehicles shall be sloped to facilitate the movement of liquids to a drain or toward the main vehicle entry doorway.

0406.2.9 Equipment and appliances having an ignition source and located in motor-vehicle occupancies shall be elevated such that the source of ignition is not less than 18" above the floor surface on which the equipment or appliance rests. Rooms or spaces that communicate directly with the motor-vehicle occupancy through openings shall be considered part of the motor-vehicle occupancy.

0410.3 Permanent platforms shall be constructed of materials as required to the type of construction of the building in which the permanent platform is located. Where the space beneath the permanent platform is used for storage or any purpose other than equipment, wiring, or plumbing, the floor assembly shall be not less than 1-hour fire-resistance-rated construction. Where the space beneath the permanent platform is used only for equipment, wiring, or plumbing, the underside of the permanent platform need not be protected.

0420.2 Walls separating sleeping units in the same building and walls separating sleeping units from other occupancies contiguous to them in the same building shall be constructed as Fire Partitions in accordance with *IBC/NJ* Section 708.

0420.3 Floor assemblies separating sleeping units in the same building and floor assemblies separating sleeping units from other occupancies contiguous to them in the same building shall be constructed as Horizontal Assemblies in accordance with *IBC/NJ* Section 711.

0420.4 Group R occupancies shall be equipped throughout with an automatic sprinkler system in accordance with *IBC/NJ* Section 903.2.8.

0420.5 Fire alarm systems and smoke alarms shall be provided in Use Group R-2 in accordance with *IBC/NJ* Section 907.2.9. Single- or multiple-station smoke alarms shall be provided in Use Group R-2 in accordance with *IBC/NJ* Section 907.2.10.

0500.0 General Building Heights & Areas

0311.3 Because this new equipment bays' use is similar to a parking garage, they shall be classified per the *IBC/NJ*, as Use Group S-2, Low-Hazard Storage.

0400.0 Special Detailed Requirements Based on Use & Occupancy

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0500.0 General Building Heights & Areas

Table 504.3 Allowable Building Height in Feet above Grade Plane -
• Use Group A-3, Construction Type V-B (existing), Sprinklered = 40'
• Use Group B, Construction Type V-B, Sprinklered = 40'
• Use Group R-2, Construction Type V-B, Sprinklered = 60'
• Use Group S-2, Construction Type V-B, Sprinklered = 40'

! Proposed Building Heights
A-3 27'-6"
B 23'-8"
R-2 23'-8"
S-2 23'-0"

Table 504.4 Allowable Number of Stories above Grade Plane -
• Use Group A-3, Construction Type V-B (existing), Sprinklered = 2
• Use Group B, Construction Type V-B, Sprinklered = 3
• Use Group R-2, Construction Type V-B, Sprinklered = 3
• Use Group S-2, Construction Type V-B, Sprinklered = 3

! Proposed Stories above Grade Plane
A-3 2
B 2
R-2 2
S-2 1

Table 504.6.2 Allowable Area Factor -
• Use Group A-3, Construction Type V-B (existing), Sprinklered, 2-Story = 18,000 SF
• Use Group B, Construction Type V-B, Sprinklered, 2-Story = 27,000 SF
• Use Group R-2, Construction Type V-B, Sprinklered, 2-Story = 21,000 SF
• Use Group S-2, Construction Type V-B, Sprinklered, 1-Story = 54,000

! Proposed Areas
First Floor
• A-3, Assembly & B, Business (Existing Building) 4,293 SF
• B, Business (Addition) 6,046 SF
• S-2, Storage (Addition) 6,096 SF
Total 15,435 SF
Second Floor
• Mezzanine, S-2, Storage 747 SF
• B, Business (Existing Building) 2,070 SF
• B, Business (Addition) 4,646 SF
• R-3, Residential (Addition) 400 SF
Total 4,988 SF
! Proposed Volume of Addition 259,378 CF

0505.2 A mezzanine in compliance with *IBC/NJ* Section 505.2 shall be considered a portion of the story below. Such a mezzanine shall not contribute to either the building area or number of stories regulated by *IBC/NJ* Section 503.1. The area of the mezzanine shall be included in determining the fire area. The clear height above and below the mezzanine floor construction shall be not less than 7'.

0505.2.1 The aggregate area of a mezzanine within a room shall be not greater than one-third of the floor area of that room or space in which it is located. The enclosed portion of a room shall not be included in a determination of the floor area of the room in which the mezzanine is located. In determining the allowable mezzanine area, the area of the mezzanine shall not be included in the floor area of the room.

0505.2.3 A mezzanine shall be open and unobstructed to the room in which such mezzanine is located except for walls not more than 42" in height, columns, & posts.

0508.3.1 Nonseparated mixed use occupancies shall be individually classified in accordance with *IBC/NJ* Section 302.1. *IBC/NJ* requirements shall apply to each portion of the building based on the Occupancy classification of that space. In addition, the most restrictive provisions of *IBC/NJ* Chapter 9 shall apply to the nonseparated occupancies shall apply to the total nonseparated Occupancy area.

0508.3.2 The allowable building area, height, and number of stories of the building or portion thereof shall be based on the most restrictive allowances for the Occupancy groups under consideration for the type of construction of the building in accordance with *IBC/NJ* Section 503.1.

0508.3.3.2 No separation is required between nonseparated Occupancies, except R-2 sleeping units shall be separated from other sleeping units and from other Occupancies contiguous to them in accordance with the requirements of *IBC/NJ* Section 420.

0509.4 The Incidental Uses listed on *IBC/NJ* Table 509 shall be separated from the remainder of the building or equipped with an automatic sprinkler system, or both, in accordance with the provisions of that Table

Table 0509, Incidental Uses
• Furnace Room where any piece of equipment is over 400,000 BTU per hour input
..... 1-hour separation or provide automatic sprinkler system
• Rooms with Boilers where the largest piece of equipment is over 15 PSI and 10 horsepower 1-hour separation or provide automatic sprinkler system
• Laundry Room over 100 SF 1-hour separation or provide automatic sprinkler system

0509.4.1 Where *IBC/NJ* Table 509 specifies a fire-resistance-rated separation, the Incidental Uses shall be separated from the remainder of the building by a Fire Barrier constructed in accordance with *IBC/NJ* Section 707 or a Horizontal Assembly constructed in accordance with *IBC/NJ* Section 711, or both. Construction supporting 1-hour Fire Barriers or Horizontal Assemblies used for Incidental Use separations in buildings of Construction Type IIB is not required to be fire-resistance rated unless required by other sections of the *IBC/NJ*.

0509.4.2 Where *IBC/NJ* Table 509 permits an automatic sprinkler system without a Fire Barrier, the Incidental Uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. The walls shall extend from the top of the foundation or floor assembly below to the underside of the floor or roof sheathing, deck, or slab above. Doors shall be self- or automatic-closing upon detection of smoke in accordance with *IBC/NJ* Section 716.2.6.6. Doors shall not have air transfer openings and shall not be undercut in excess of the clearance permitted in accordance with NFPA 80. Walls surrounding the Incidental Use shall not have air transfer openings unless provided with smoke dampers in accordance with *IBC/NJ* Section 710.8.

0509.4.2.1 Where an automatic sprinkler system is provided in accordance with *IBC/NJ* Table 509, only the space occupied by the Incidental Use need be equipped with such a system.

0600.0 Types of Construction

0602.5 Proposed construction system for the Addition is classified as Type V-B, in which the structural elements, exterior walls, and interior walls are of any materials permitted by the *IBC/NJ*.

Table 0601, Fire-Resistance Rating Requirements for Building Elements (hours)
• Primary Structural Frame 0
• Exterior Bearing Walls 0
• Interior Bearing Walls 0
• Nonbearing Walls 0
• Floor construction 0
• Roof construction 0

0700.0 Fire-Resistance-Rated Construction

0705.2.2 Projections from walls of Type V Construction shall be of any approved material.

0707.1 Fire Barriers installed as required by *IBC/NJ* Section 0509, Incidental Uses, shall comply with *IBC/NJ* Section 707.

0707.2 Fire Barriers shall be of materials permitted by the building type construction.

0707.3.7 The Fire Barriers separating Incidental Uses from other spaces in the building shall have a fire-resistance rating not less than that indicated in *IBC/NJ* Table 509.

0707.5 Fire Barriers shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab, or deck above and shall be securely attached thereto. Such Fire Barriers shall be continuous though concealed space, such as the space above a suspended ceiling. Joints and voids at intersections shall comply with *IBC/NJ* Sections 707.8 and 707.9.

0707.6 Openings in Fire Barriers shall be protected in accordance with *IBC/NJ* Section 716. Openings shall not be limited to 156 SF where adjoining floor areas are equipped throughout with an automatic sprinkler system installed in accordance with *IBC/NJ* Section 903.3.1.1.

0707.7 Penetrations in Fire Barriers shall comply with *IBC/NJ* Section 714.

0707.8 Joints made in or between Fire Barriers, and joints made at the intersection of Fire Barriers with underside of a fire-resistance-rated floor or roof sheathing, slab, or deck above, and the exterior vertical wall intersection shall comply with *IBC/NJ* Section 715.

0707.10 Penetrations in a Fire Barrier by ducts and air transfer openings shall comply with *IBC/NJ* Section 717.

0708.1 Fire Partitions installed as required by *IBC/NJ* Section 0420.2, Use Group R-2, shall comply with *IBC/NJ* Section 708.

0708.2 Fire Partitions shall be of materials permitted by the building type construction.

0708.3.2 Sleeping unit separations in buildings of Construction Type V-B shall have a fire-resistance-rating of not less than ½ hour in buildings equipped throughout with an automatic-sprinkler system in accordance with *IBC/NJ* Section 903.3.1.1.

0708.4 Fire Partitions shall extend from the top of the foundation or floor/ceiling assembly below and be securely attached to the underside of the floor or roof sheathing, slab, or deck above, or to the fire-res



COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
 Project Title: MT HOLLY FIRE RELIEF ADDITION 2020
 Location: Mount Holly, New Jersey
 Climate Zone: 4a
 Project Type: Addition
 Vertical Glazing / Wall Area: 10%
 Performance Sim. Specs: EnergyPlus 8.1.0.009 (EPW: USA_PA_Philadelphia.intl.AP.724080_TMY3.epw)

Construction Site: 17 PINE STREET
 MT HOLLY, New Jersey 08060
 Owner/Agent: REGAN YOUNG
 Designer/Contractor: REGAN YOUNG
 RYEBREAD ARCHITECTS
 456 HIGH STREET
 MT HOLLY, New Jersey 08060
 609-265-2652
 rnr@ryebread.com

Building Area	Floor Area
1-Equipment Bays (Fire Station) - Nonresidential	5903
2-Admin Areas (Office) - Nonresidential	4476

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor: Unheated Slab-On-Grade, Vertical 3 ft., [Bldg. Use 1 - Equipment Bays] (c)	241	---	10.0	0.510	0.520
Floor: Unheated Slab-On-Grade, Vertical 3 ft., [Bldg. Use 2 - Admin Areas] (c)	211	---	10.0	0.510	0.520
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Equipment Bays]	5903	---	20.0	0.048	0.032
Roof: Insulation Entirely Above Deck, [Bldg. Use 2 - Admin Areas]	4476	---	20.0	0.048	0.032
NORTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 2 - Admin Areas]	1357	18.0	10.0	0.052	0.064
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specs, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	401	---	---	0.300	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	12	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	12	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	12	---	---	0.520	0.380
Ext. Wall: Concrete Block, 12in., Partially Grouted, Cells Empty, Normal Density, Furring None, [Bldg. Use 1 - Equipment Bays]	1505	---	5.0	0.133	0.104
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Equipment Bays]	168	---	---	0.040	0.310
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Equipment Bays]	168	---	---	0.040	0.310
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Equipment Bays]	168	---	---	0.040	0.310
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Equipment Bays]	21	---	---	0.310	0.370
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Equipment Bays]	21	---	---	0.310	0.370
EAST					
Ext. Wall: Concrete Block, 12in., Partially Grouted, Cells Empty, Normal Density, Furring None, [Bldg. Use 1 - Equipment Bays]	1474	---	10.0	0.080	0.104
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 2 - Admin Areas]	360	18.0	10.0	0.052	0.064
SOUTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 2 - Admin Areas]	1373	18.0	10.0	0.052	0.064
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	15	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	15	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	15	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	15	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	15	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	15	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	15	---	---	0.520	0.380
Ext. Wall: Concrete Block, 12in., Partially Grouted, Cells Empty, Normal Density, Furring None, [Bldg. Use 1 - Equipment Bays]	1505	---	5.0	0.133	0.104
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Equipment Bays]	168	---	---	0.250	0.310
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Equipment Bays]	168	---	---	0.250	0.310
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Equipment Bays]	168	---	---	0.250	0.310
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Equipment Bays]	21	---	---	0.310	0.370
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Equipment Bays]	21	---	---	0.310	0.370
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Equipment Bays]	21	---	---	0.310	0.370
WEST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 2 - Admin Areas]	775	18.0	10.0	0.052	0.064
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	12	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	12	---	---	0.520	0.380
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Per Project Specifications, SHGC 0.29, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	12	---	---	0.520	0.380
Door: Insulated Metal, Perf. Specs.: Product ID Per Project Specs, SHGC 0.68, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	109	---	---	0.440	0.680
Door: Insulated Metal, Perf. Specs.: Product ID Per Project Specs, SHGC 0.68, VT 0.31, [Bldg. Use 2 - Admin Areas] (b)	109	---	---	0.440	0.680

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
 (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

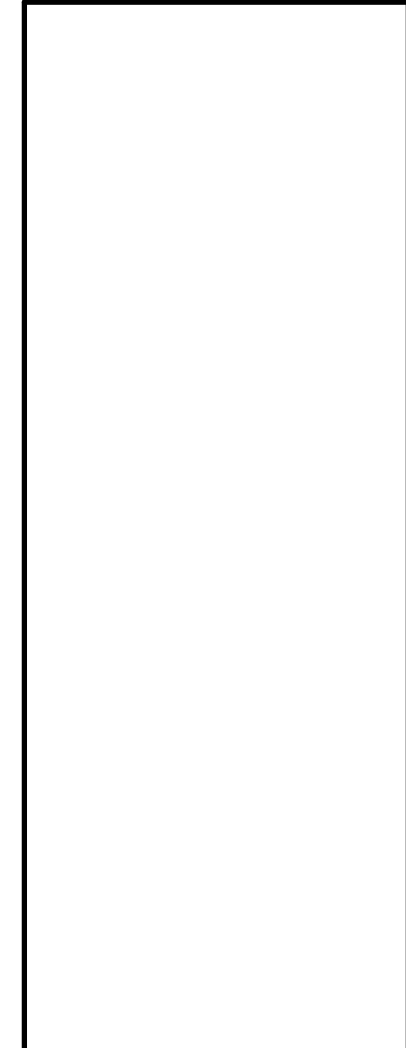
Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

REGAN YOUNG, AIA
 21A00912100

REGAN YOUNG ENGLAND BUTERA
 REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
 456 HIGH STREET • MT. HOLLY, NEW JERSEY 08060 USA
 +1(609)265-2652/0333FAX • 21A00912100 • RYEBREAD.COM



RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
 BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY

TITLE: **COMCHECK COMPLIANCE DATA**

DRAWING DATE:

01 JULY 2020

REVISION DATE:

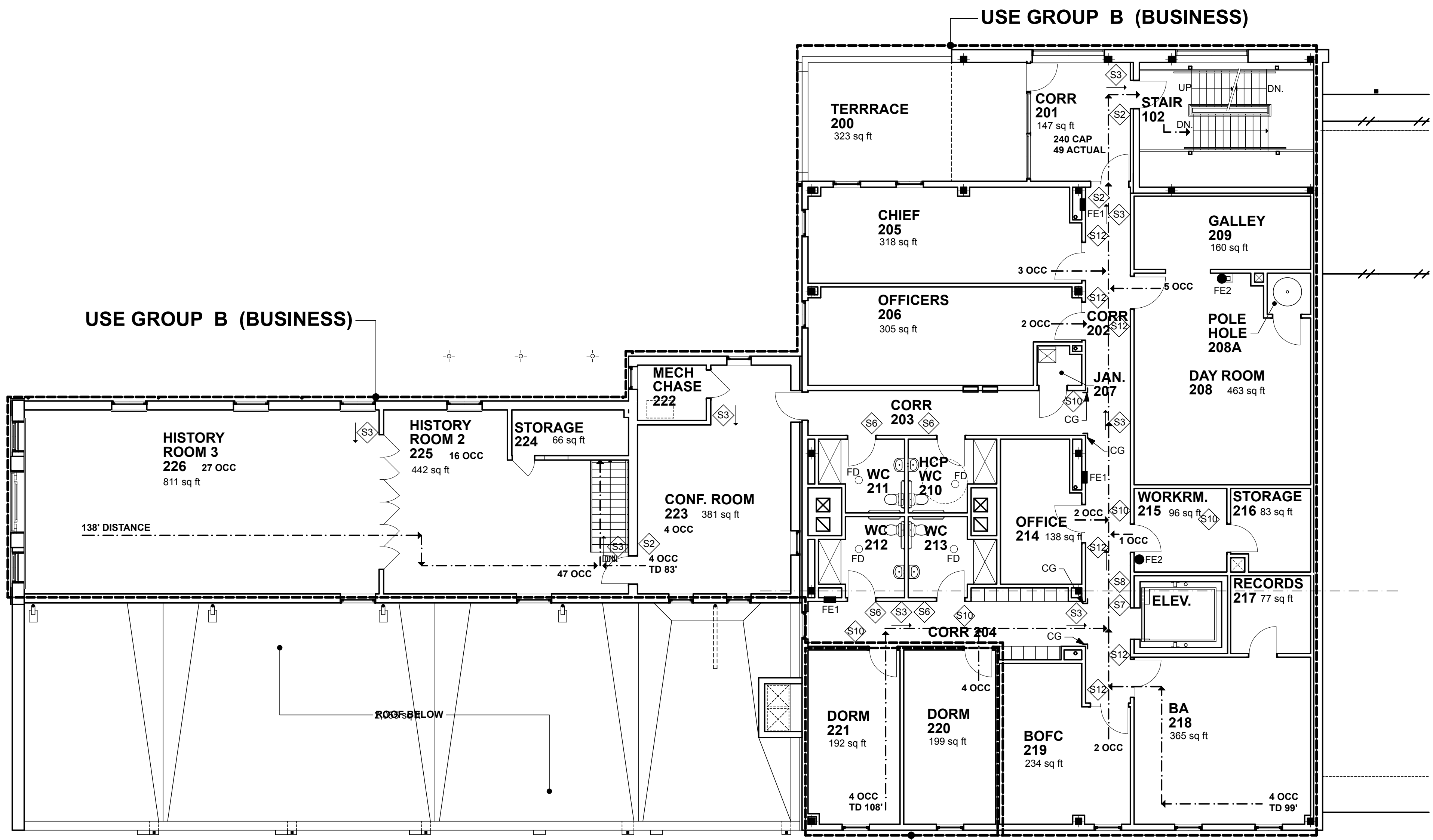
DRAWN BY:

RR

COMMISSION NO.:

5475B

A1.2



SECOND FLOOR PLAN 1/8" = 1'-0" **03**

KEY:

- DIRECTION OF EGRESS TO EXIT
- # OCC OCCUPANT LOAD
- # TD TRAVEL DISTANCE
- # CAP DOOR EGRESS CAPACITY
- # ACTUAL ACTUAL OCCUPANTS EXITING DOOR
- REMOVABLE FLOOD GATE PROTECTION BY THE OWNER.

FIRE EXTINGUISHER SCHEDULE:

- FE1 FULLY RECESSED CABINET AND FIRE EXTINGUISHER
- FE2 SURFACE MOUNTED FIRE EXTINGUISHER ON BRACKET

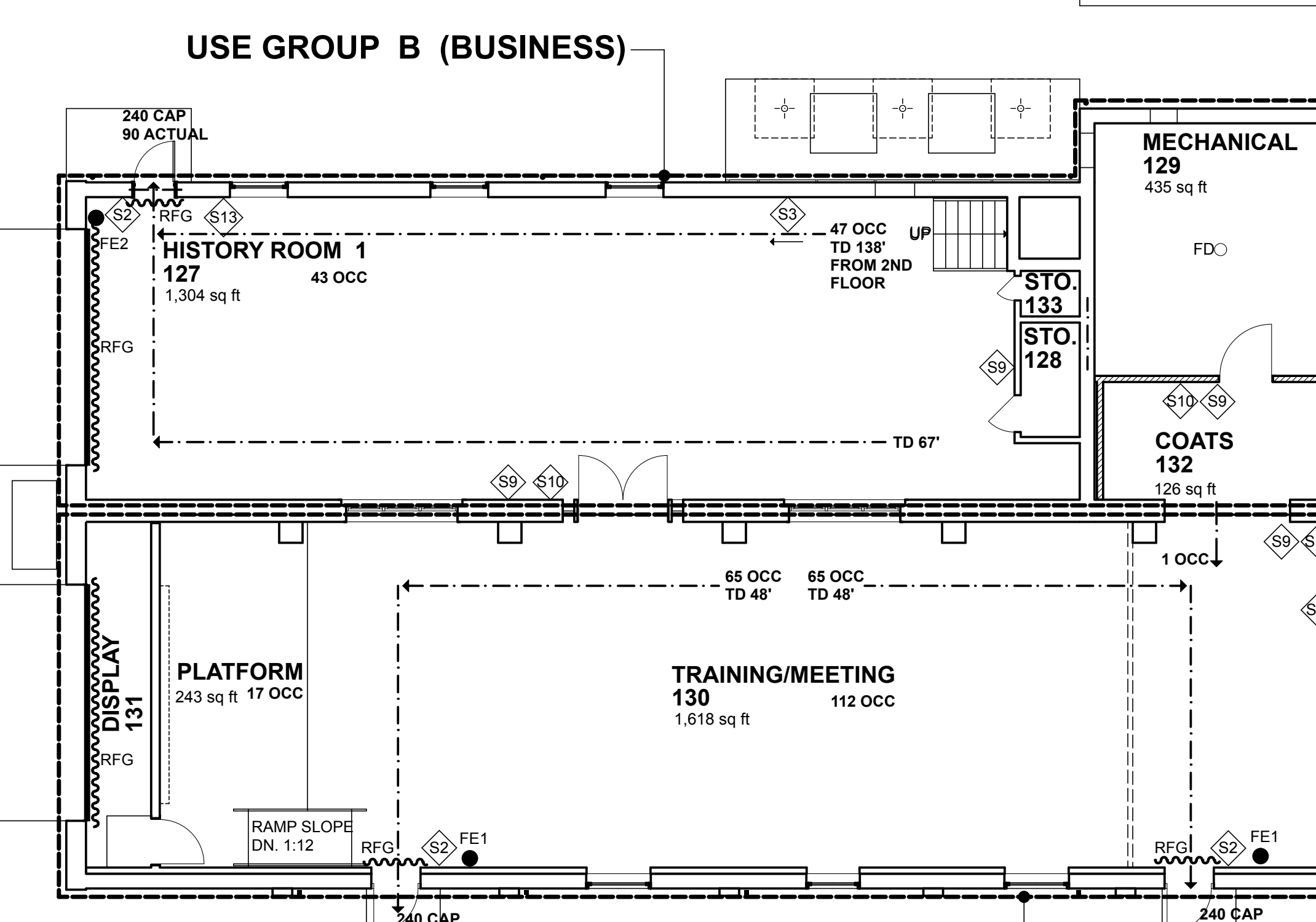
NOTES:

- FOLLOW SPECIFICATIONS FOR ADDITIONAL INFORMATION ON EXTINGUISHER TYPE AND RATING.
- COORDINATE FINAL LOCATION W/ ARCHITECT IN FIELD.
- CG TO PROVIDE SOLID BLOCKING FOR ALL FIRE EXTINGUISHER CABINETS AND WALL MOUNTED BRACKETS.

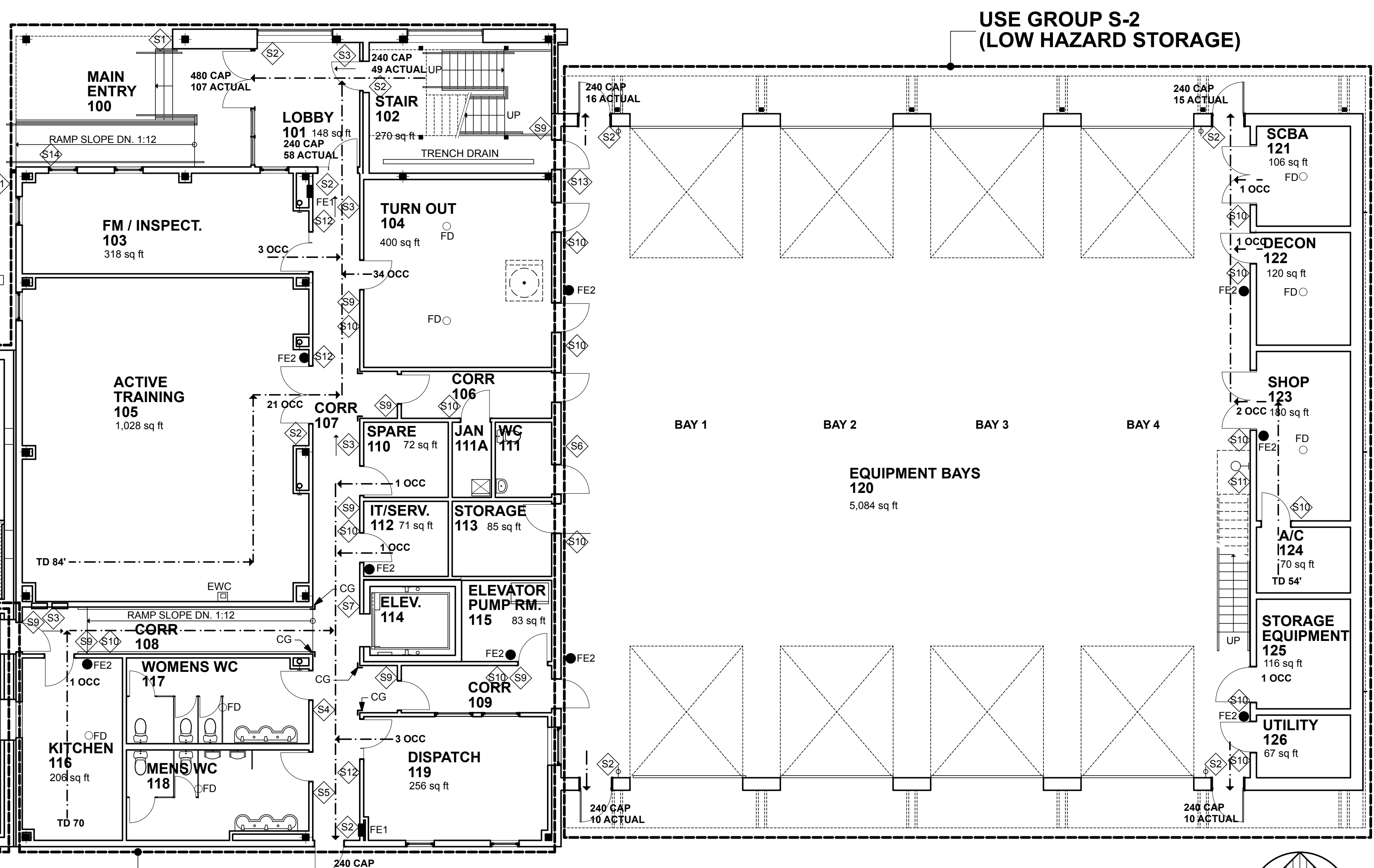
WALL PROTECTION KEY:

- CG VERTICALLY MOUNTED SURFACE CORNER GUARDS

NOTE: INSTALL DOOR HARDWARE PROTECTION BUMPERS BEHIND EACH DOOR SWING - TYPICAL FOR ALL DOOR LOCATION.



FIRST FLOOR PLAN 1/8" = 1'-0" **01**



MEZZANINE PLAN SCALE: 1/8" = 1'-0" **02**

SIGNAGE DETAILS

SIGNAGE MOUNTED ON GLASS:
SIGNAGE REQUIRED TO BE MOUNTED TO GLASS SHALL HAVE A BLANK BACK PANEL MADE OF THE SAME MATERIAL AND OF THE SAME SIZE AND COLOR AS THE SIGN ADHERED TO THE OPPOSITE SIDE OF THE GLASS.

MOUNTING LOCATION AND HEIGHT:
WHERE PERMANENT IDENTIFICATION WITH TACTILE CHARACTERS IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. AT DOUBLE LEAF DOORS, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE FLOOR OR GROUND, CENTERED ON THE SIGN, BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

48-INCHES MINIMUM TO 60-INCHES MAXIMUM ABOVE FINISH FLOOR TO THE BASELINE OF THE CHARACTERS.

RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGNS:
LETTERS AND NUMERALS SHALL BE RAISED 1/32-INCH, UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8 INCH HIGH, BUT NO HIGHER THAN 2 INCHES. PICTORIALS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTORIAL. THE BORDER DIMENSION OF THE PICTORIAL SHALL BE 2-INCHES MINIMUM IN HEIGHT. REFER TO TABLES 703.4.2.4 & 703.5 FOR REQUIRED CHARACTER AND BRAILLE DIMENSIONS.

FINISH AND CONTRAST:
THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE MATTE, OR OTHER NON GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
REFER TO ICC/ANSI A117.1-2009 FOR ADDITIONAL REQUIREMENTS

ELEVATOR CONTROL SYMBOLS
ALL CONTROL SYMBOLS TO COMPLY WITH ANSI A117.1 2009

Control Button Type	Raised Symbol	Braille Message
DOOR OPEN		op/en
REAR/SIDE DOOR OPEN		op/en
DOOR CLOSE		close
REAR/SIDE DOOR CLOSE		close
MAIN		ma"n
ALARM		al"ar"m
PHONE		ph"one"
EMERGENCY STOP (WHEN PROVIDED)		"st"op

TYPE: S1 ENTRANCE

TYPE: S2 EXIT

TYPE: S3 EXIT W/ DIRECTION ARROW

TYPE: S4 WOMEN

TYPE: S5 MEN

TYPE: S6 RESTROOM

TYPE: S7 ELEVATOR

TYPE: S8 IN CASE OF FIRE USE STAIRS

TYPE: S9 DO NOT ENTER AUTHORIZED PERSONNEL ONLY

TYPE: S10 ROOM NAME

TYPE: S11 EMERGENCY EYE WASH

TYPE: S12 ROOM NUMBER ROOM NAME BRAILLE TEXT INTERCHANGEABLE SLOT TEXT

TYPE: S13 MAXIMUM OCCUPANCY # OCCUPANCY

TYPE: S14 (REFLECTIVE) ROOF TRUSS

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MOUNT HOLLY, NEW JERSEY

USE GROUP, EGRESS AND SIGNAGE PLANS

DRAWING DATE: **01 JULY 2020**

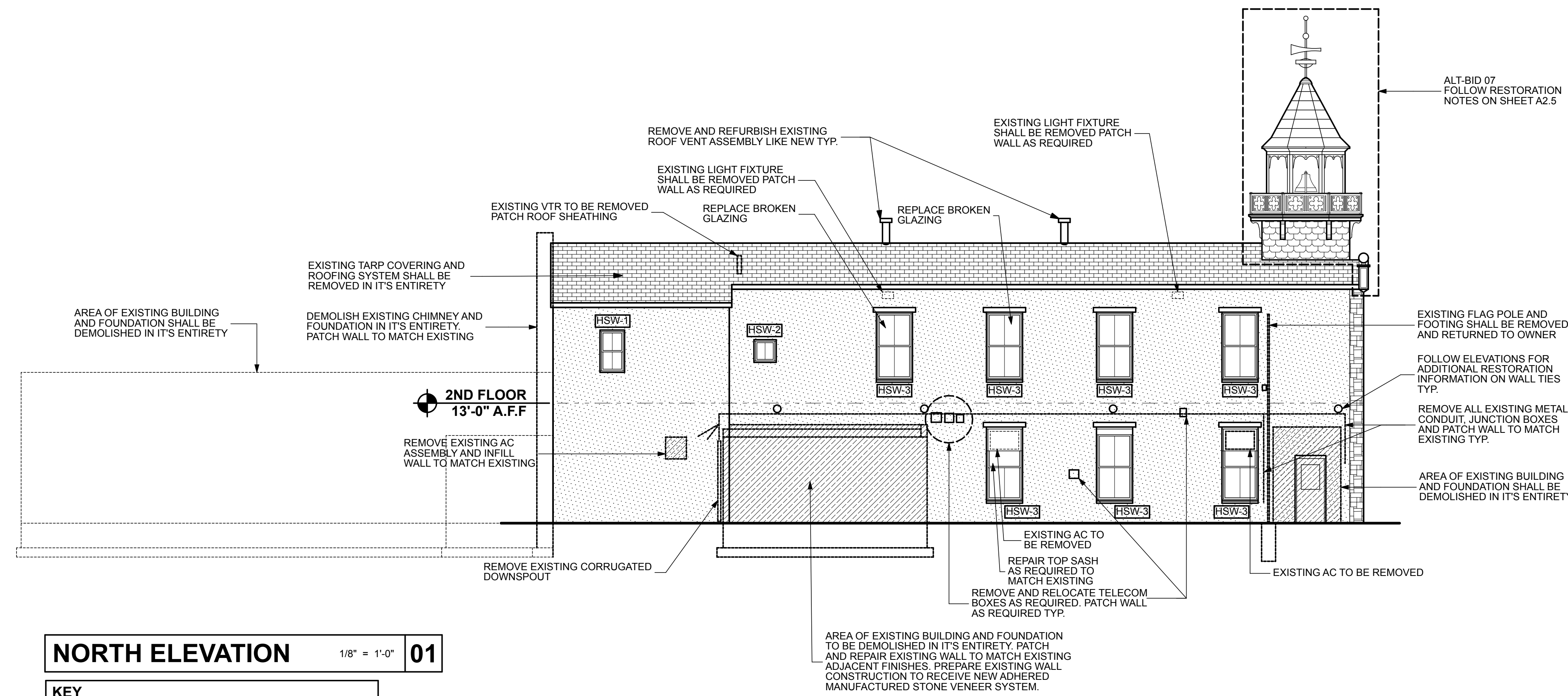
REVISION DATE:

DRAWN BY: **RR**

COMMISSION NO.: **5475B**

A1.3

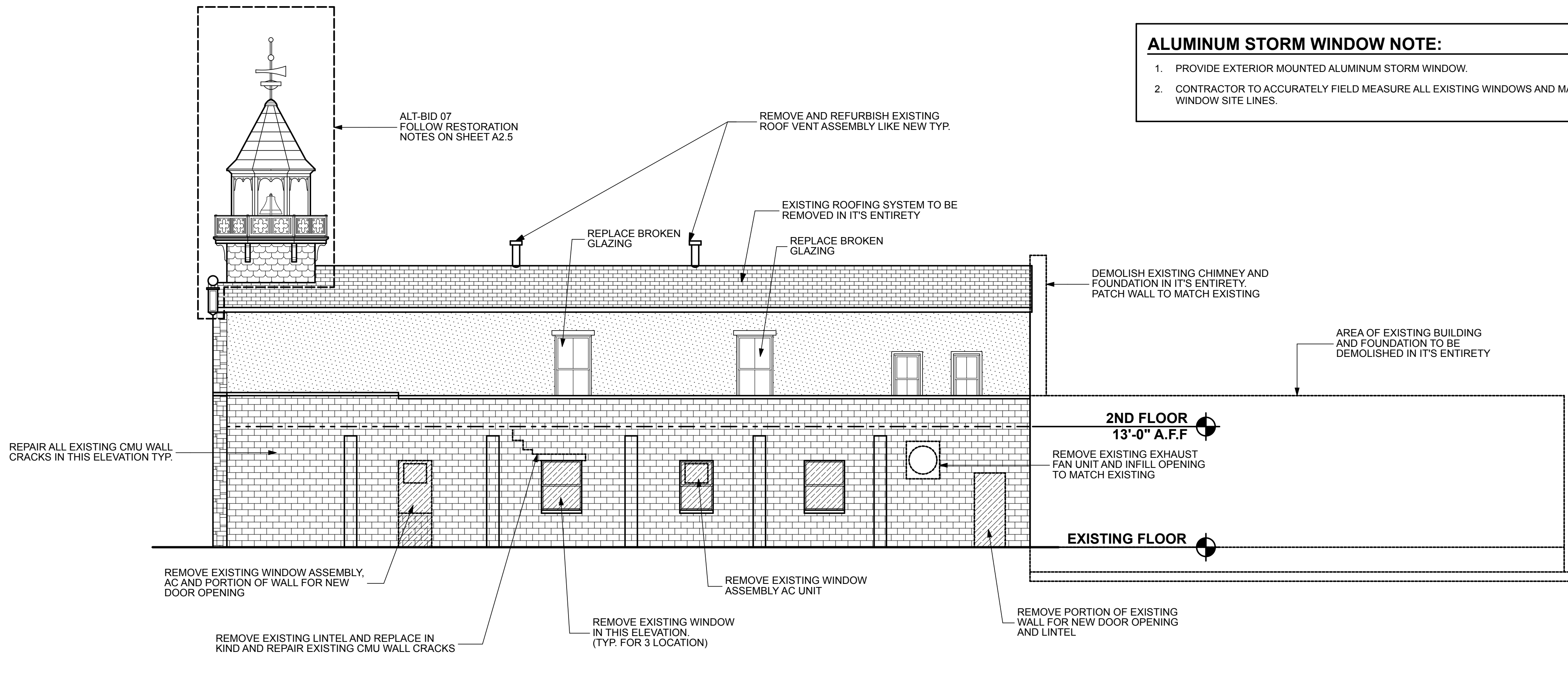
7 OF 37



NORTH ELEVATION 1/8" = 1'-0" **01**

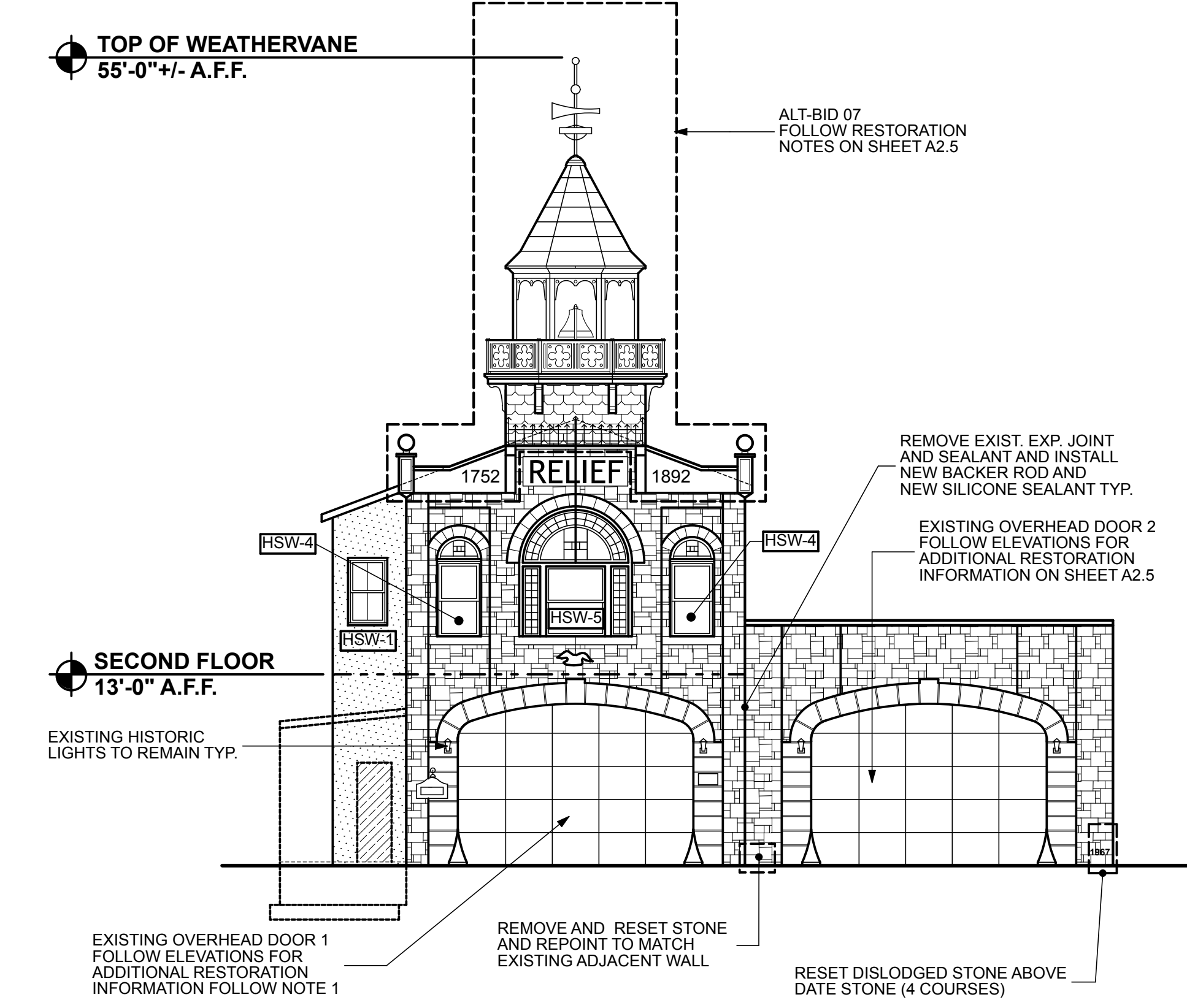
KEY
[HSW-#] HISTORIC STORM WINDOW, FOLLOW SHEET A2.5 AND A2.7 FOR ADDITIONAL INFORMATION

ALUMINUM STORM WINDOW NOTE:
1. PROVIDE EXTERIOR MOUNTED ALUMINUM STORM WINDOW.
2. CONTRACTOR TO ACCURATELY FIELD MEASURE ALL EXISTING WINDOWS AND MAINTAIN EXISTING WINDOW SITE LINES.



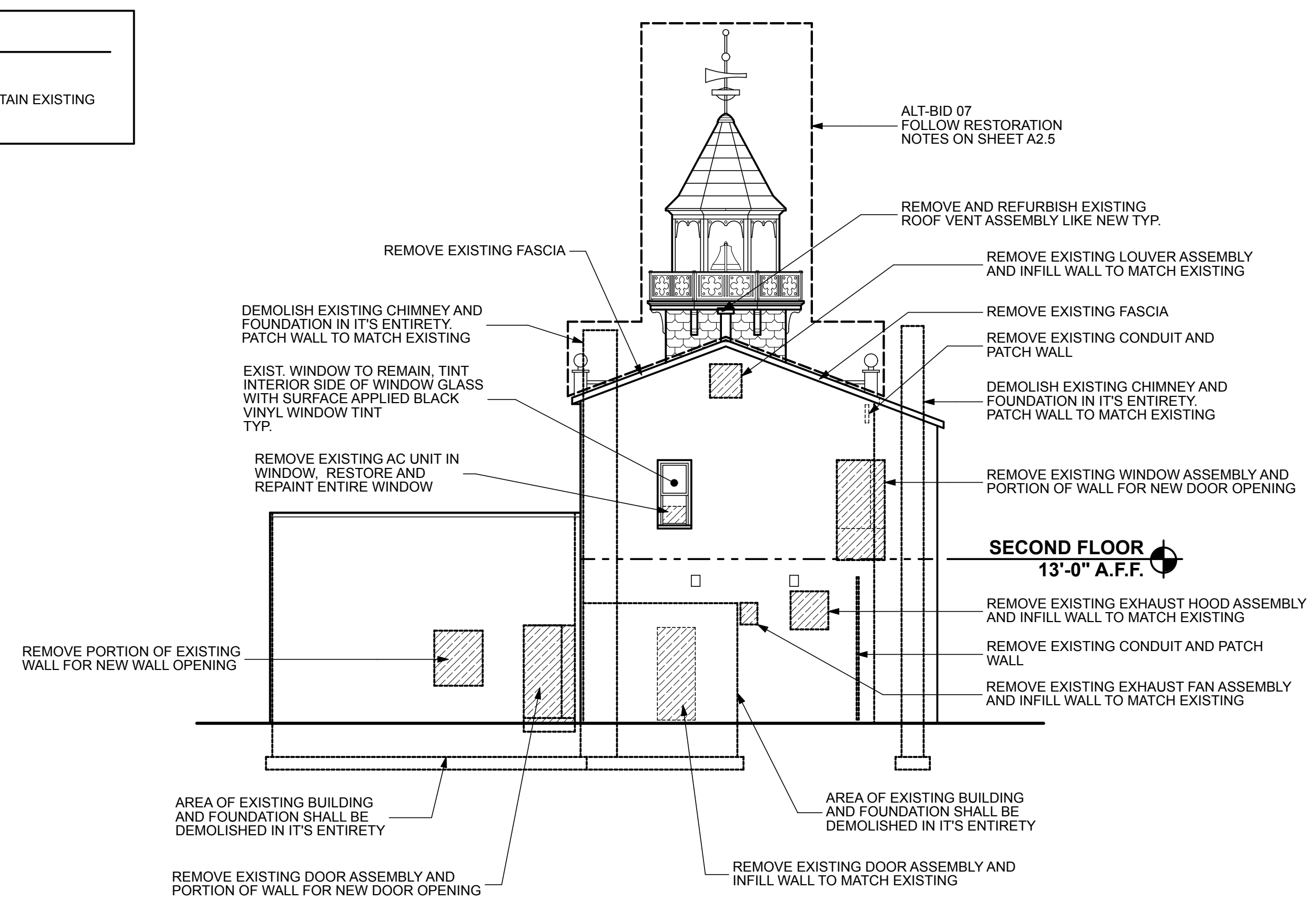
SOUTH ELEVATION 1/8" = 1'-0" **03**

NOTE:
G.G. SHALL REMOVE ALL VEGETATION GROWTH OFF BUILDING.



WEST ELEVATION (PINE STREET) 1/8" = 1'-0" **02**

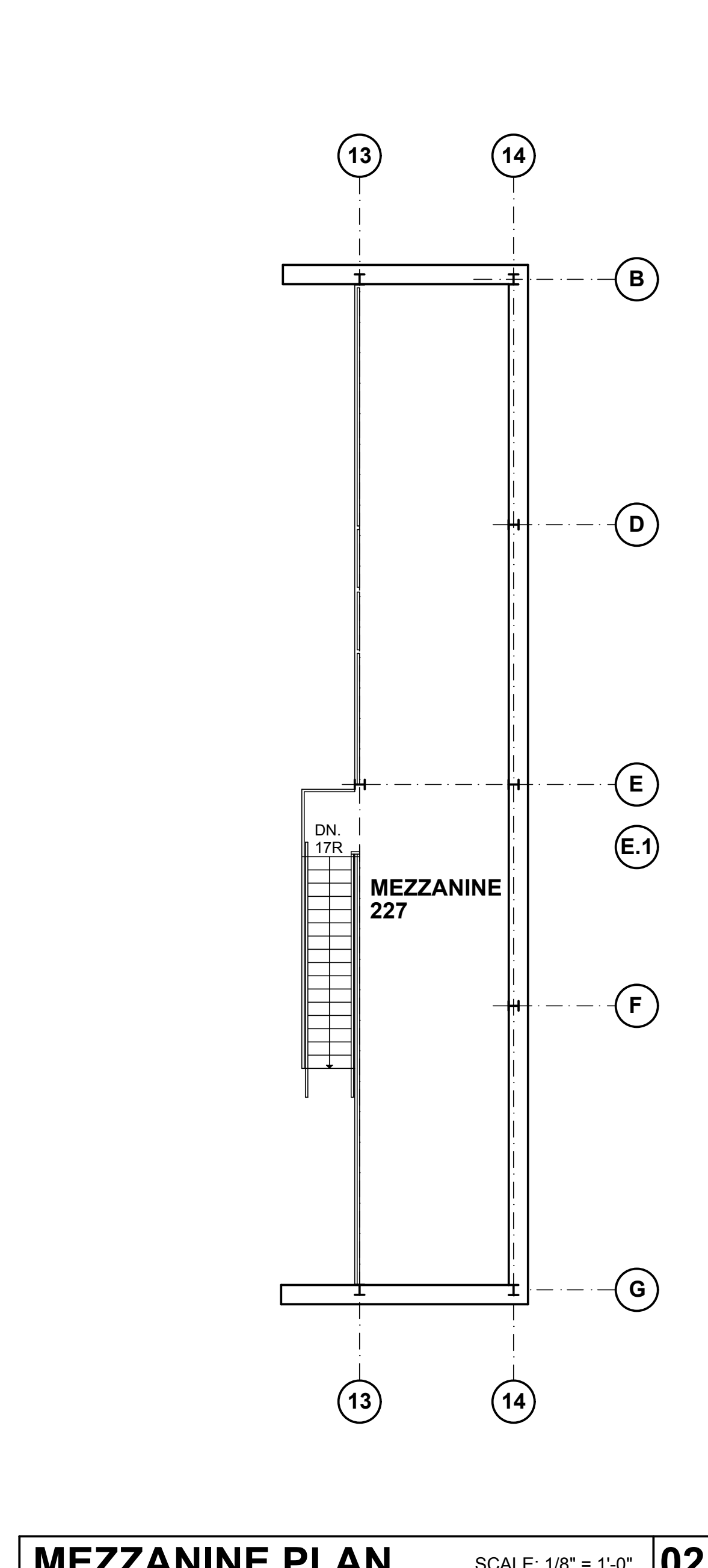
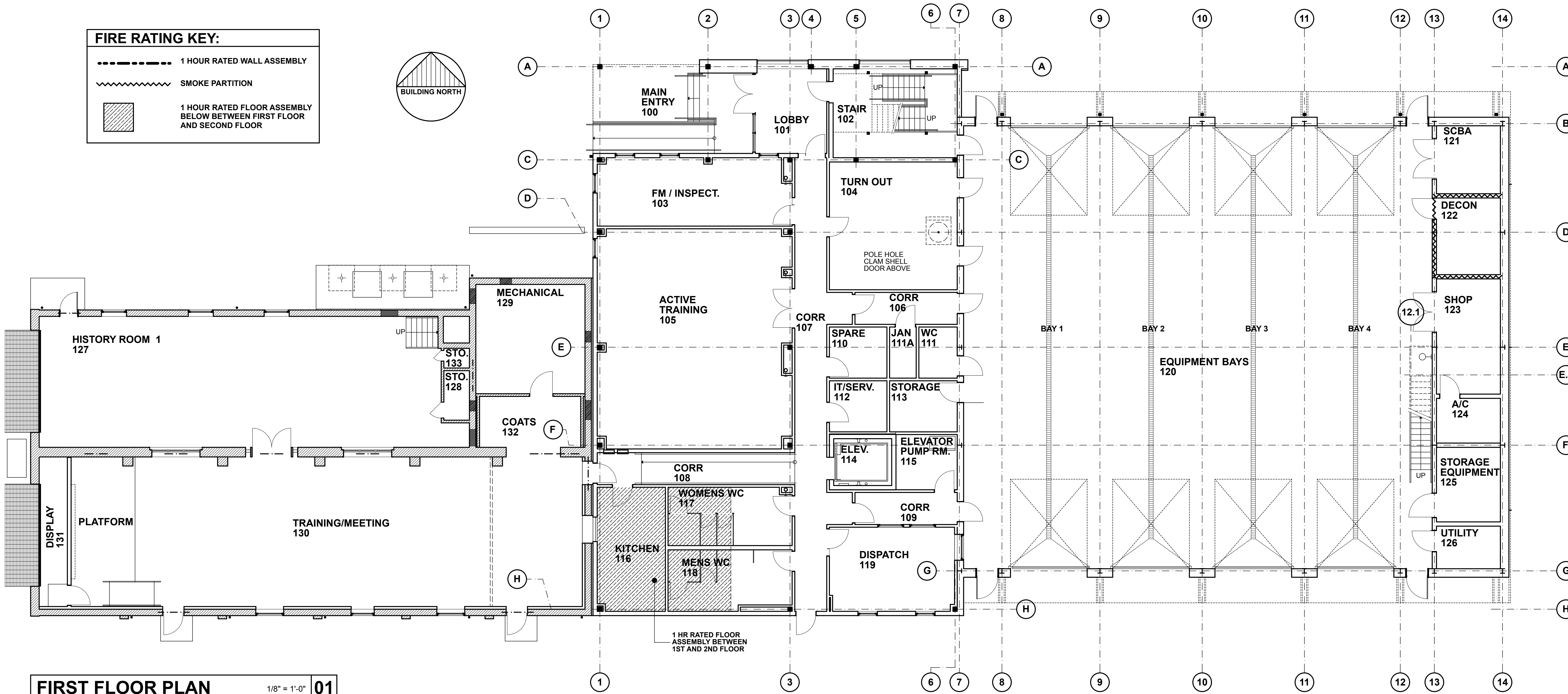
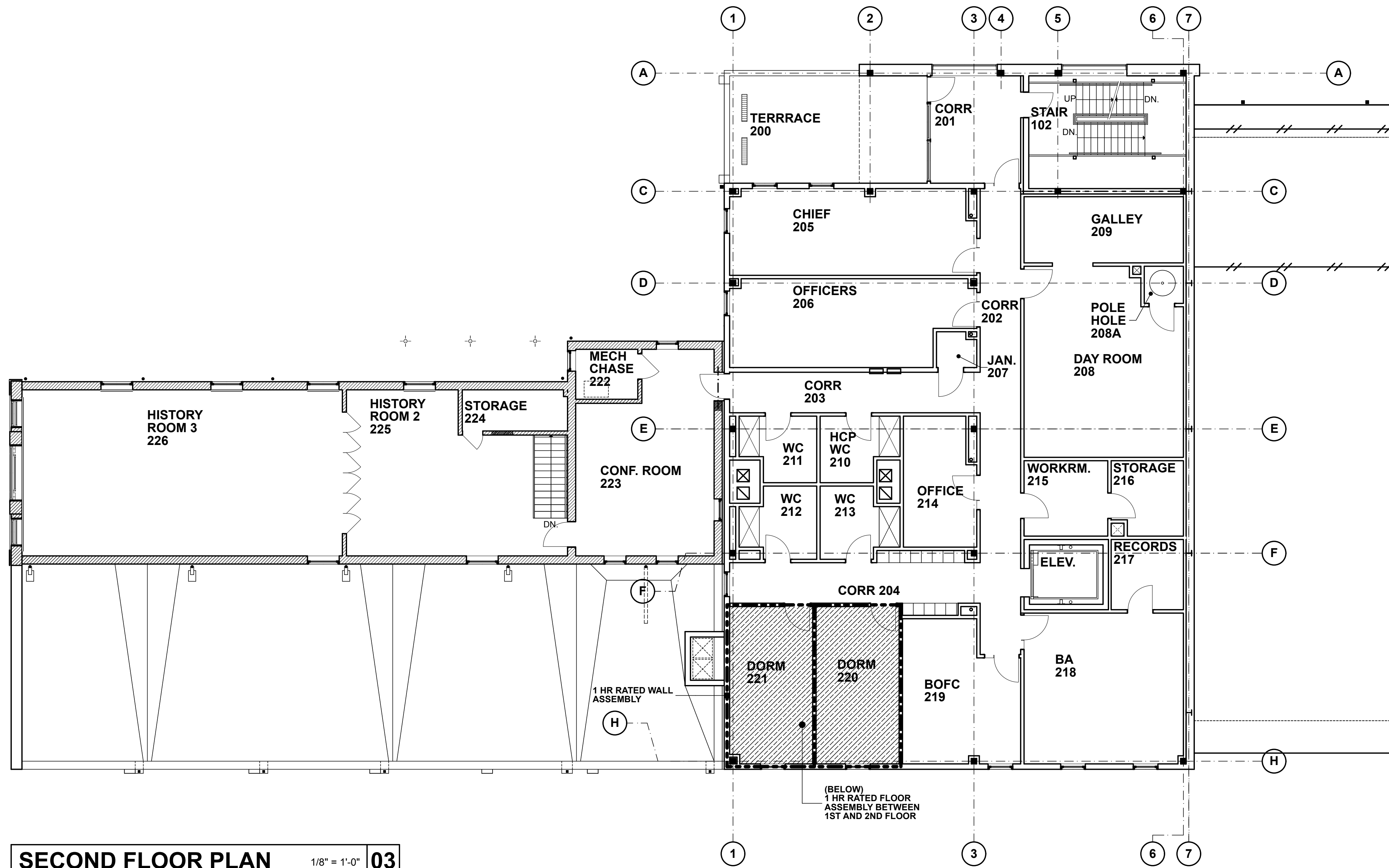
NOTE 1 EXISTING OVERHEAD DOOR 1 MUST REMAIN OPERATIVE TO PERMIT OWNER TO PLACE HISTORIC FIRE HOUSE, PUMPER, AND OTHER HISTORIC ARTIFACTS IN HISTORY ROOM 1(127). FOLLOW SHEET A1.4 FOR ADDITIONAL NOTES.



EAST ELEVATION 1/8" = 1'-0" **04**

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17 PINE STREET
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TITLE: **DEMOLITION ELEVATIONS**

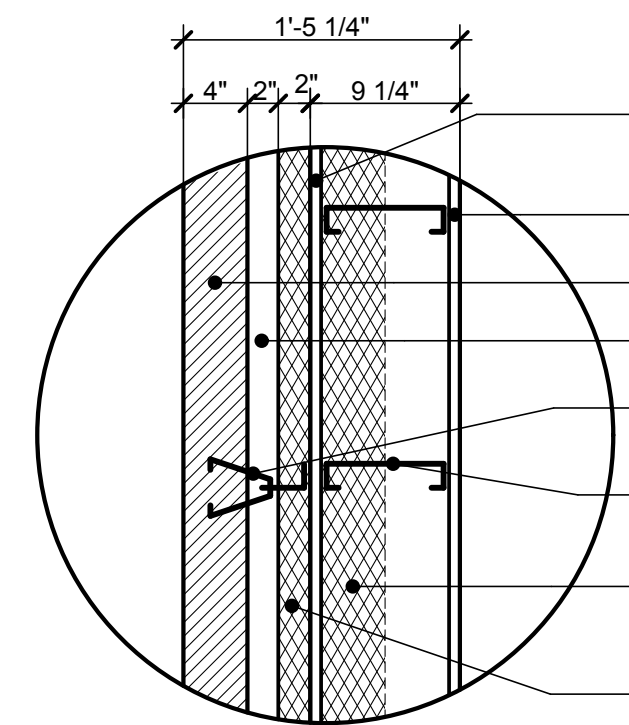
DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	RR
COMMISSION NO.:	5475B



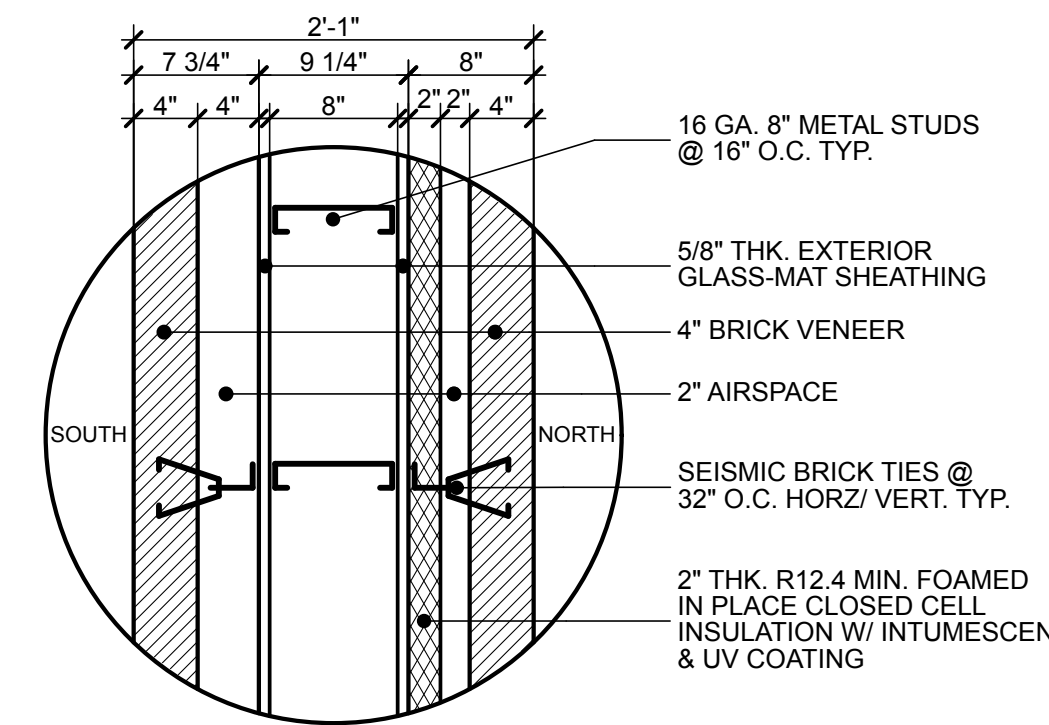
ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	CEILING	WALLS				REMARKS
					NORTH	EAST	SOUTH	WEST	
100	MAIN ENTRY	CONC.	N/A	METAL 8'-0" A.F.F.	N/A	N/A	N/A	N/A	
101	LOBBY	LVT-1	RUBBER	APC2 8'-0" A.F.F.	PTD/DW	CT-1	PTD/DW	PTD/DW	OPEN GRATE METAL STAIRS AND LANDING, RAILINGS, GUARDS AND STAIR TREADS AND RISERS. (DO NOT PAINT)
102	STAIR	CONC.	RUBBER	OPEN PTD MTL DECK	PTD/DW (HPC)	PTD/CMU (HPC)	PTD/CMU (HPC)	PTD/CMU (HPC)	HPC-ALL WALL FINISHES. DO NOT PAINT STAIRS, LANDINGS, RAILINGS, GUARDS AND STAIR TREADS AND RISERS
103	FM / INSPECTION	CPT TL	RUBBER	APC1 9'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
104	TURN OUT	RF	RF	OPEN PMD	PTD/CMU	PTD/CMU			SLIP RESISTANT RESINOUS FLOORING
105	ACTIVE TRAINING	CONC.	RUBBER	OPEN PMD 8'-0" A.F.F.	PTD/DW	PTD/DW			PAINT STEEL BEAMS COLOR "GREY" SPRINKLER LINES COLOR "RED" DO NOT PAINT STEEL DECK AND MECHANICAL DUCTS
106	CORRIDOR	LVT-1	RUBBER	APC2 8'-0" A.F.F.					
107	CORRIDOR								
108	CORRIDOR								
109	CORRIDOR			APC2 8'-0" A.F.F.					
110	SPARE	LVT-1	RUBBER	APC1 8'-0" A.F.F.			PTD/DW		
111	WC	RF	RF	APC1 8'-0" A.F.F.			PTD/CMU		
111A	JANITOR	LVT-1	RUBBER	APC1 8'-0" A.F.F.			PTD/DW		
112	I7/ SERVER	LVT-1	RUBBER	APC1 8'-0" A.F.F.			PTD/DW		
113	STORAGE	LVT-1	RUBBER	APC1 8'-0" A.F.F.	PTD/DW	PTD/CMU	PTD/DW	PTD/DW	
114	ELEVATOR	CONC.		OPEN	CMU	CMU	CMU	CMU	
115	ELEVATOR PUMP ROOM	CONC.	RUBBER	OPEN	HPC	HPC	HPC	HPC	
116	KITCHEN	RF	RF	APC3 8'-0" A.F.F.	HPC	HPC	HPC	HPC	
117	WOMENS WC	RF	RF	APC1 8'-0" A.F.F.	CT-2	CT-2	CT-2	CT-2	FULL HEIGHT CERAMIC TILE WALLS
118	MENS WC	RF	RF	APC1 8'-0" A.F.F.	CT-2	CT-2	CT-2	CT-2	FULL HEIGHT CERAMIC TILE WALLS
119	DISPATCH	CPT TILE	RUBBER	APC1 8'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
120	EQUIPMENT BAYS	CONC.	RUBBER	OPEN/ PTD MTL DECK	HPC	HPC	HPC	HPC	HPC-ALL WALL FINISHES
121	SCBA								
122	DECON								
123	SHOP								
124	A/C								
125	STORAGE EQUIPMENT								
126	UTILITY	CONC.	RUBBER	OPEN/ PTD MTL DECK	HPC	HPC	HPC	HPC	HPC-ALL WALL FINISHES
127	HISTORY ROOM 1	LVT-2	EXISTING CONC.	(*)	PTD	PTD	PTD	PTD	(*) PRIME AND PAINT NEW WOOD BOARD CEILING
128	STORAGE	CONC.	WOOD	EXISTING	PTD	PTD	PTD	PTD	
129	MECHANICAL	CONC.	NA	EXISTING	HPC	HPC	HPC	HPC	HPC-ALL WALL FINISHES
130	TRAINING/ MEETING	CPT TL	RUBBER	APC1 11'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	PAINT STEEL BEAMS COLOR "GREY" SPRINKLER LINES COLOR "RED" DO NOT PAINT STEEL DECK AND MECHANICAL DUCTS
131	DISPLAY	CPT TL	RUBBER	APC1 11'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
132	COATS	CPT TL	RUBBER	APC1 8'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
200	TERRACE	CFAR	CFAR	METAL 8'-0" A.F.F.	SIDING	SIDING			SLIP RESISTANT CFAR
201	CORRIDOR	CPT TL	RUBBER	APC2 8'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
202	CORRIDOR			APC2 8'-0" A.F.F.					
203	CORRIDOR			APC2 8'-0" A.F.F.					
204	CORRIDOR			APC2 8'-0" A.F.F.					
205	CHIEF			APC1 8'-0" A.F.F.					
206	OFFICERS	CPT TL		APC1 9'-0" A.F.F.					
207	JANITOR	CONC		APC1 8'-0" A.F.F.					
208	DAY ROOM	LVT-1		APC1 8'-0" A.F.F.					
208A	POLE HOLE	LVT-1	RUBBER	APC1 8'-0" A.F.F.					
209	GALLEY	LVT-1	RUBBER	APC3 8'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
210	HCP WC	RF	RF	PTD/DW 8'-0" A.F.F.	CT-2	CT-2	CT-2	CT-2	FULL HEIGHT CERAMIC TILE WALLS
211	WC								FULL HEIGHT CERAMIC TILE WALLS
212	WC								FULL HEIGHT CERAMIC TILE WALLS
213	WC	RF	RF	PTD/DW 8'-0" A.F.F.	CT-2	CT-2	CT-2	CT-2	FULL HEIGHT CERAMIC TILE WALLS
214	OFFICE	CPT	RUBBER	APC1 8'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
215	WORKROOM	LVT-1	RUBBER	APC1 8'-0" A.F.F.					
216	STORAGE	LVT-1	RUBBER	APC1 8'-0" A.F.F.					
217	RECORDS	LVT-1	RUBBER	APC1 8'-0" A.F.F.					
218	BA/ OFFICE	CPT TL	RUBBER	APC1 8'-0" A.F.F.					
219	BOFC								
220	DORM								
221	DORM	CPT TL	RUBBER	APC1 9'-0" A.F.F.	PTD/DW	PTD/DW	PTD/DW	PTD/DW	
222	MECHANICAL CHASE	LVT-1	RUBBER	GWB	PTD/ PL	PTD/ PL	PTD/ PL	PTD/ PL	
223	CONFERENCE ROOM	CPT TL	WOOD	EXIST METAL					PRIME AND PAINT HISTORIC METAL CEILING
224	STORAGE	LVT-1	RUBBER	PTD/ PL					REPAIR PLASTER CEILING, PRIME AND PAINT
225	HISTORY ROOM 2	CPT TL	WOOD	PTD/ PL					PRIME AND PAINT HISTORIC METAL CEILING
226	HISTORY ROOM 3	CPT TL	WOOD	PTD/ PL	PTD/ PL	PTD/ PL	PTD/ PL	PTD/ PL	PRIME AND PAINT HISTORIC METAL CEILING
227	MEZZANINE	CONC.	N/A	OPEN/ PTD MTL DECK	HPC	HPC	HPC	HPC	HPC-ALL FINISHES

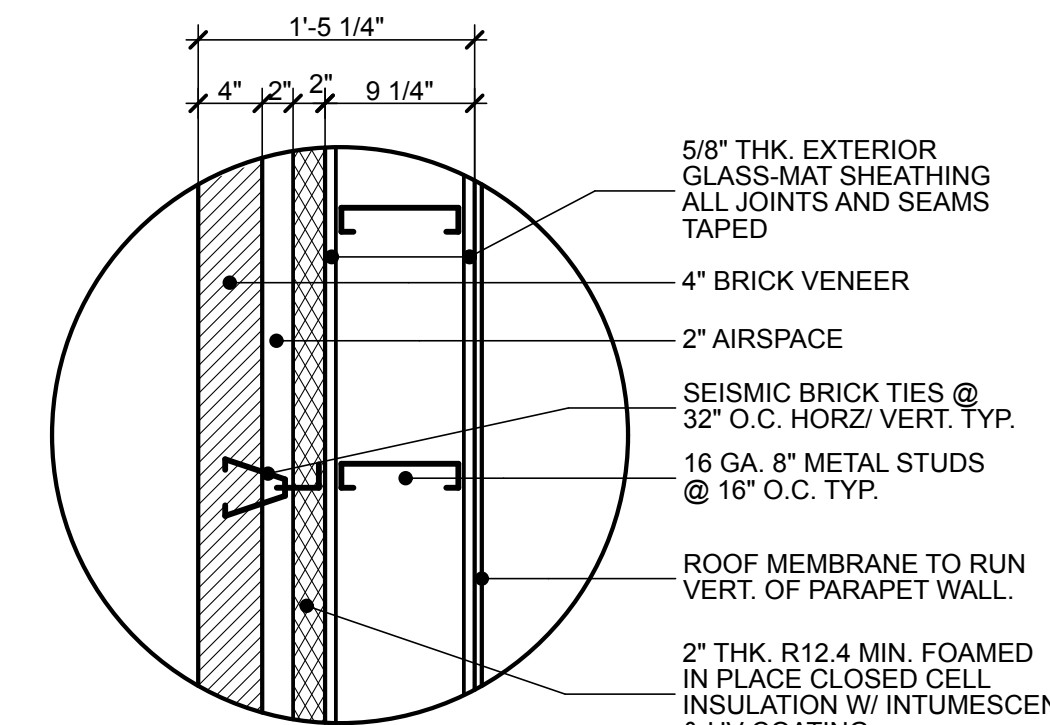
WALL TYPES



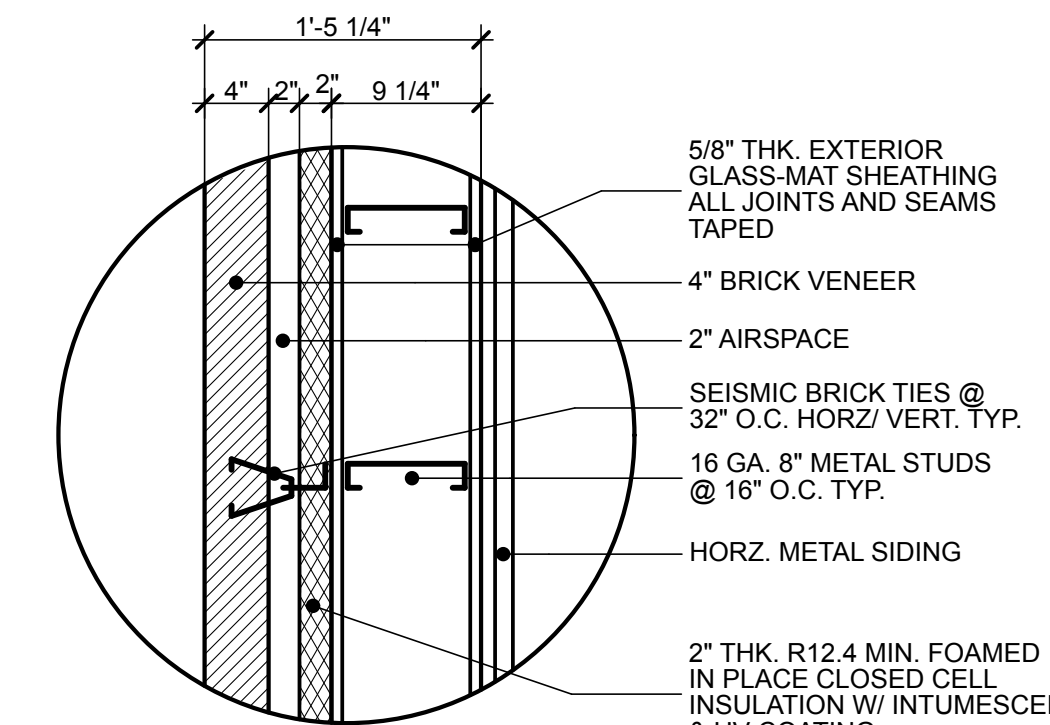
WALL TYPE W1



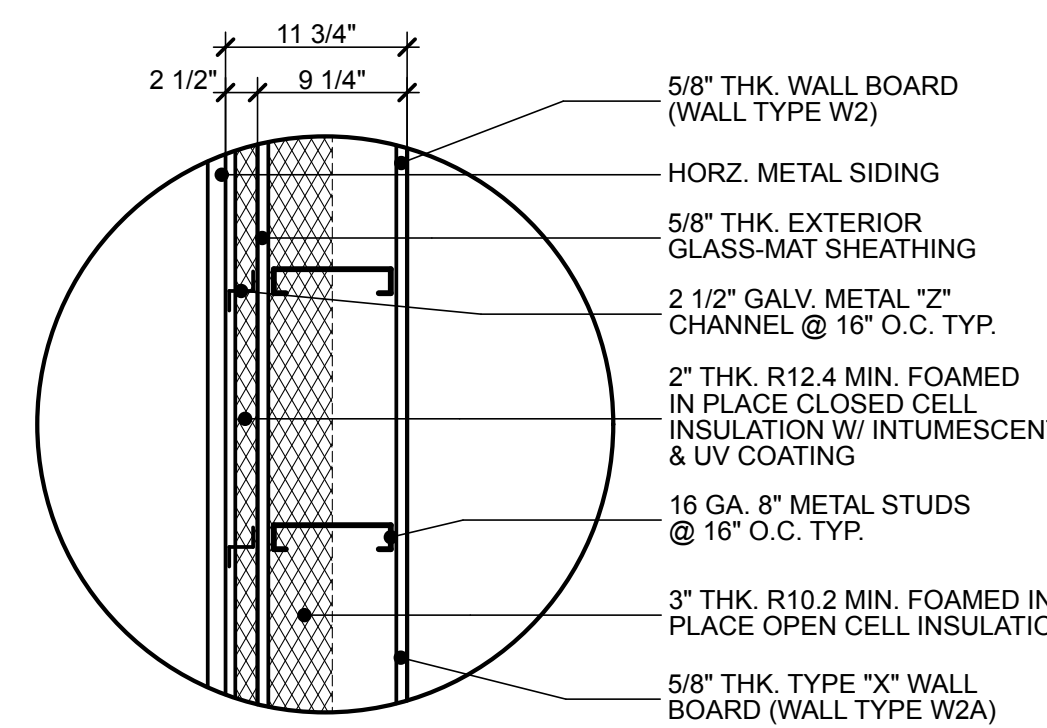
WALL TYPE W1A



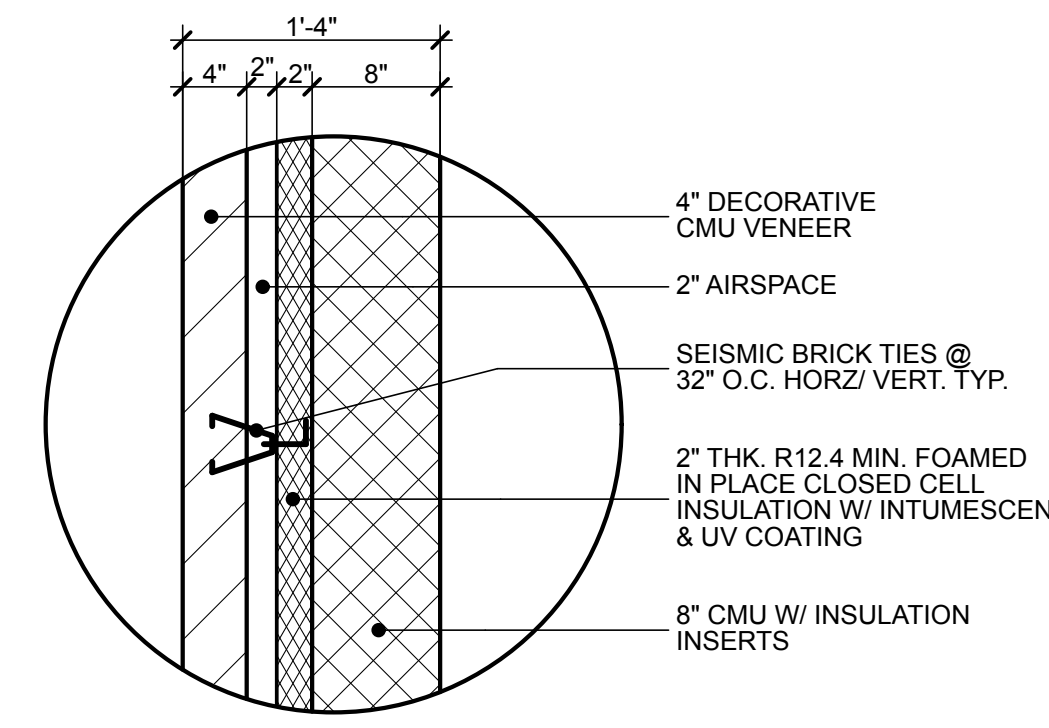
WALL TYPE W1B



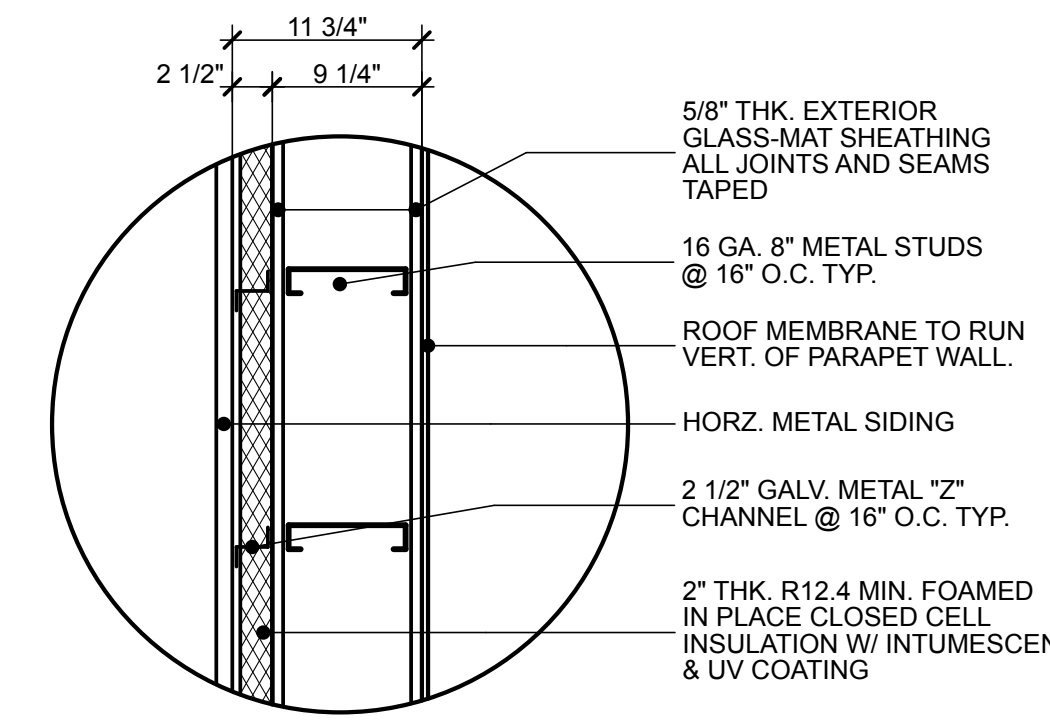
WALL TYPE W1C



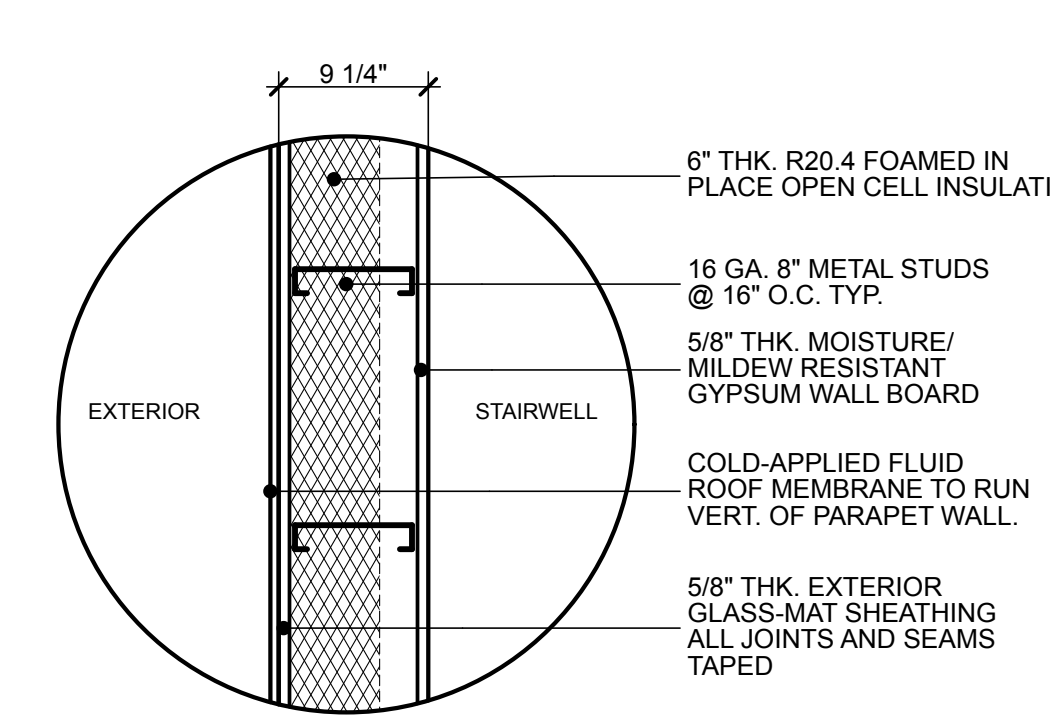
WALL TYPE W2, W2A



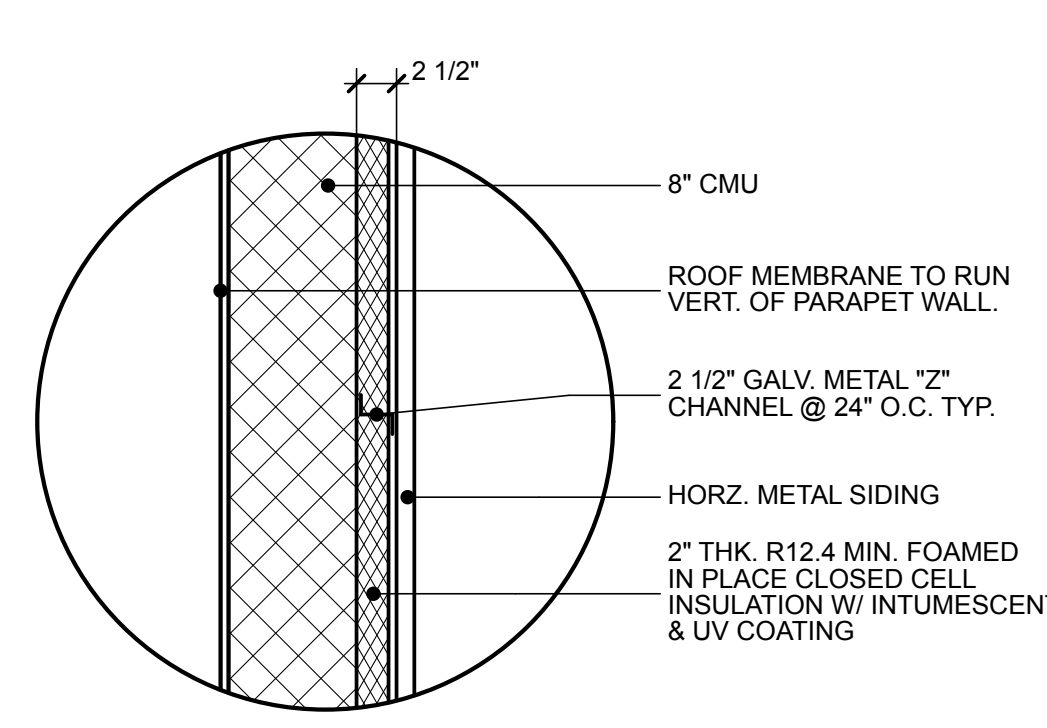
WALL TYPE W3



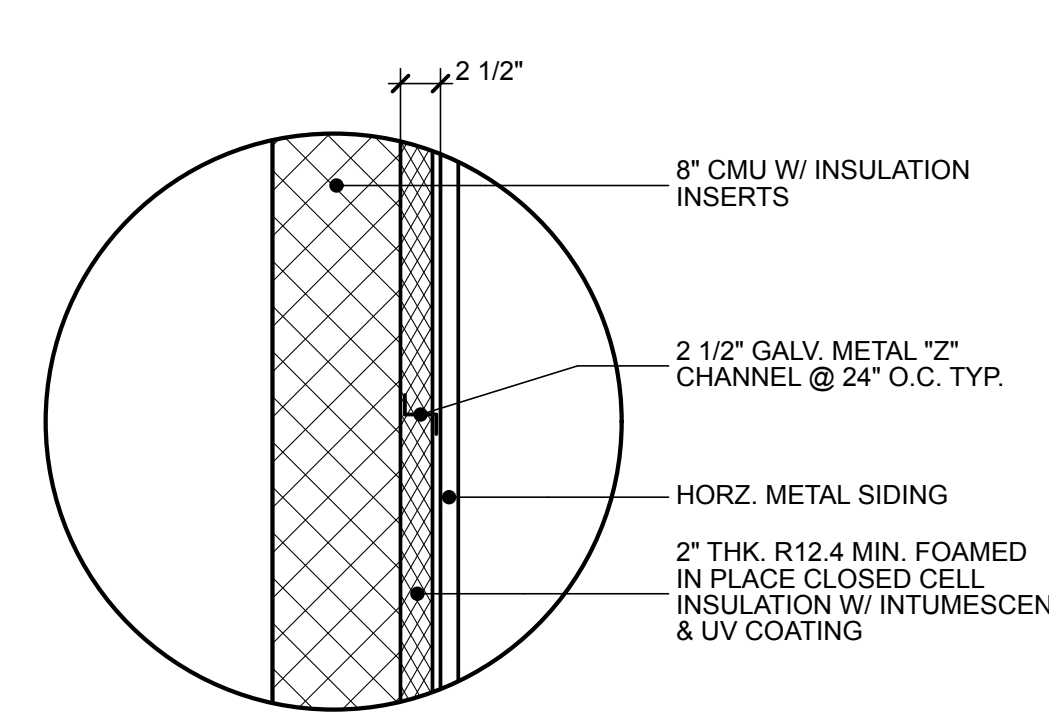
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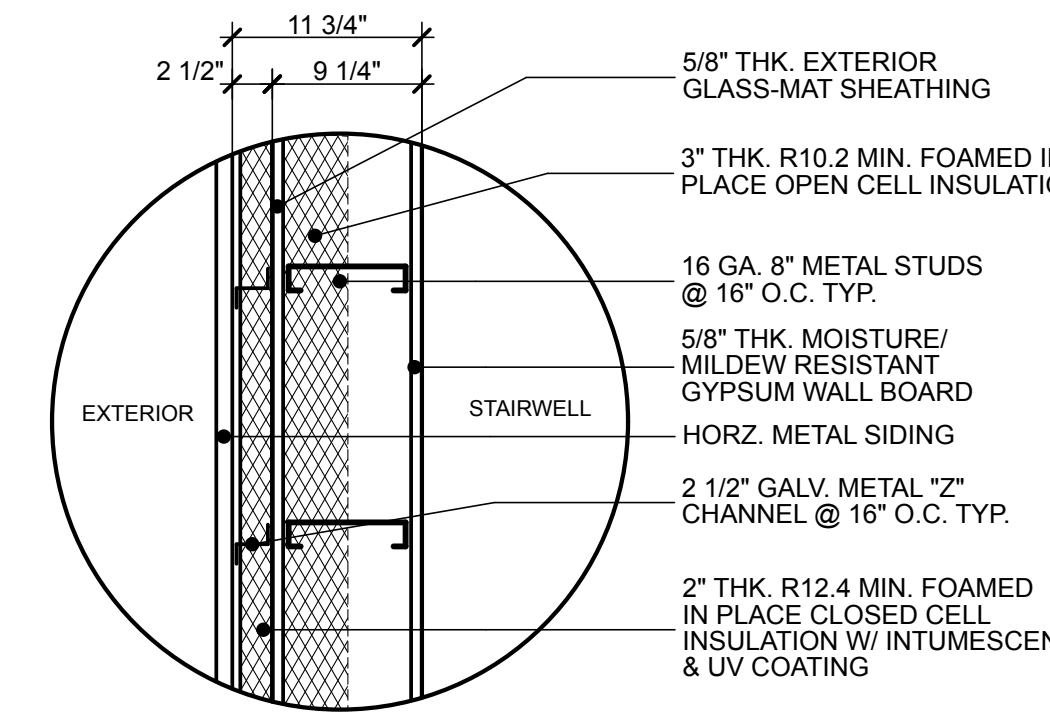
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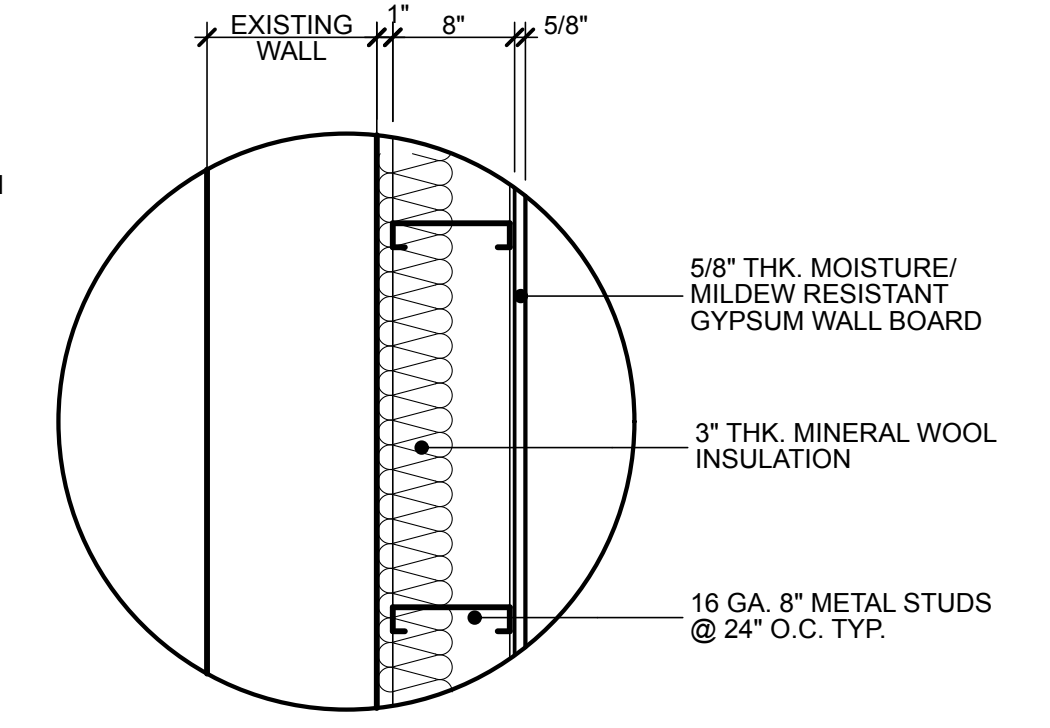
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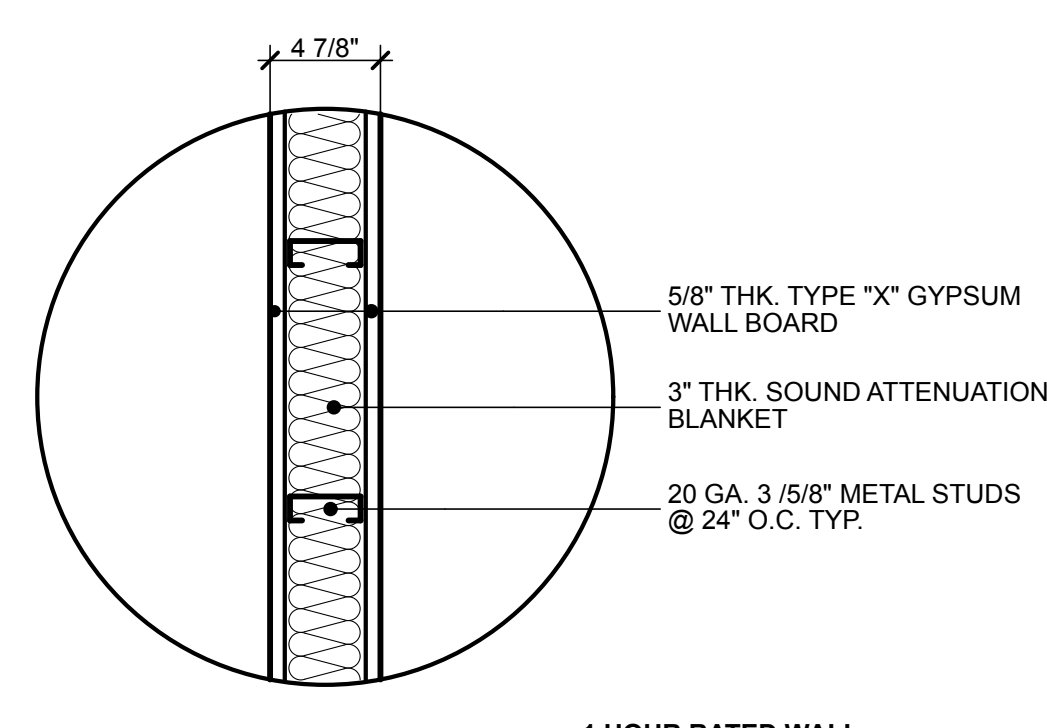
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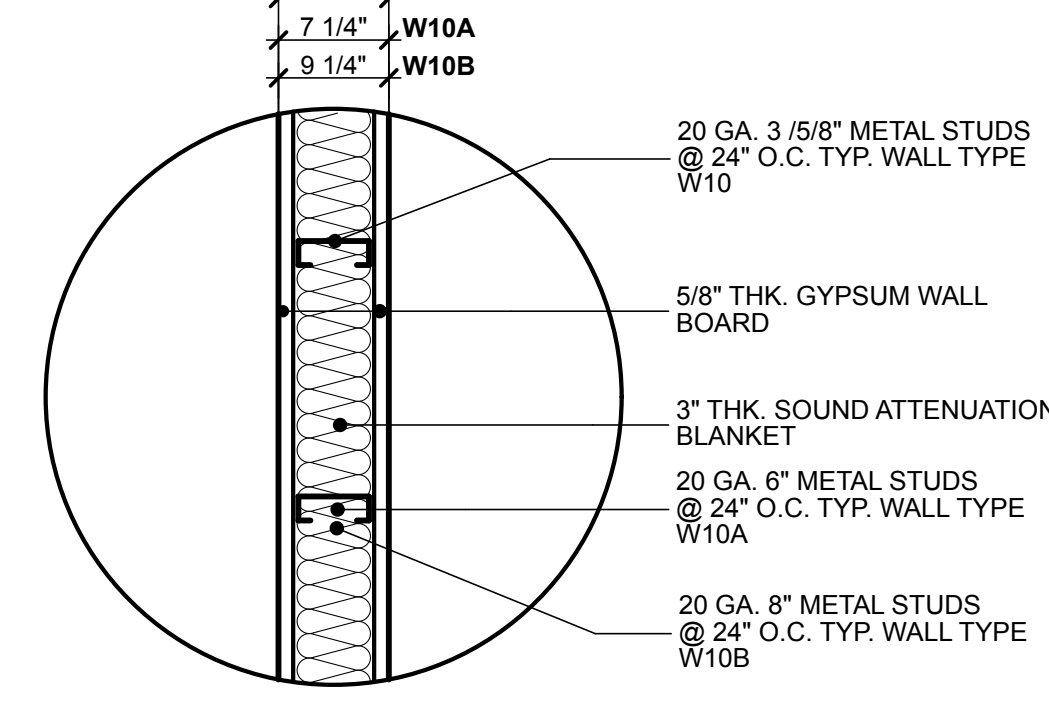
WALL TYPE W7



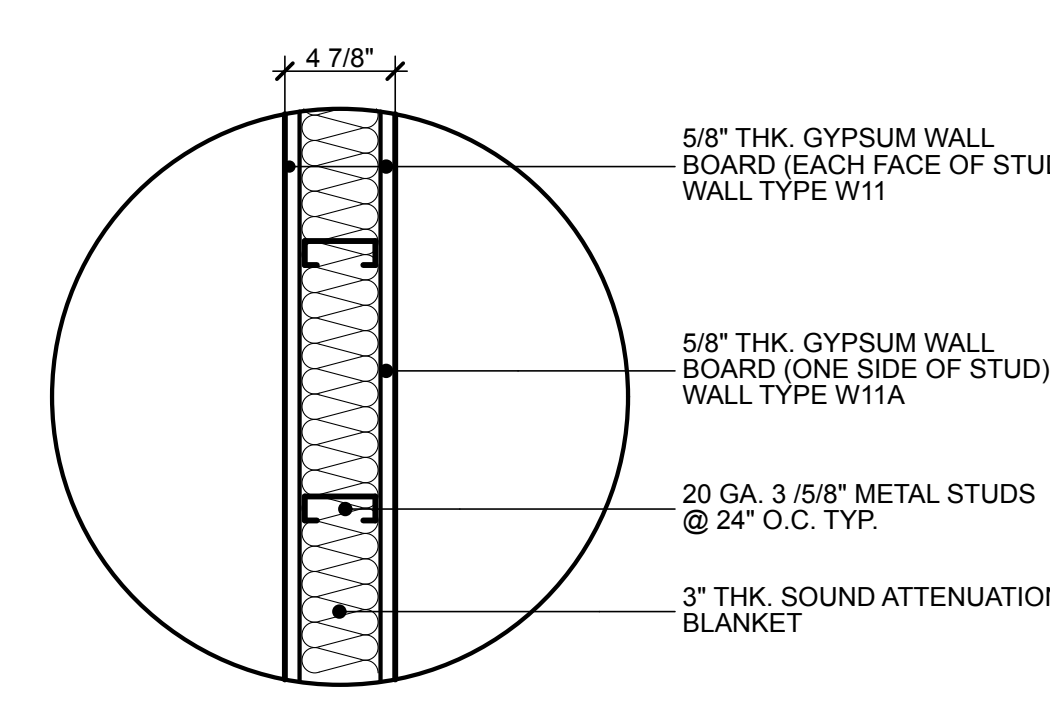
WALL TYPE W8



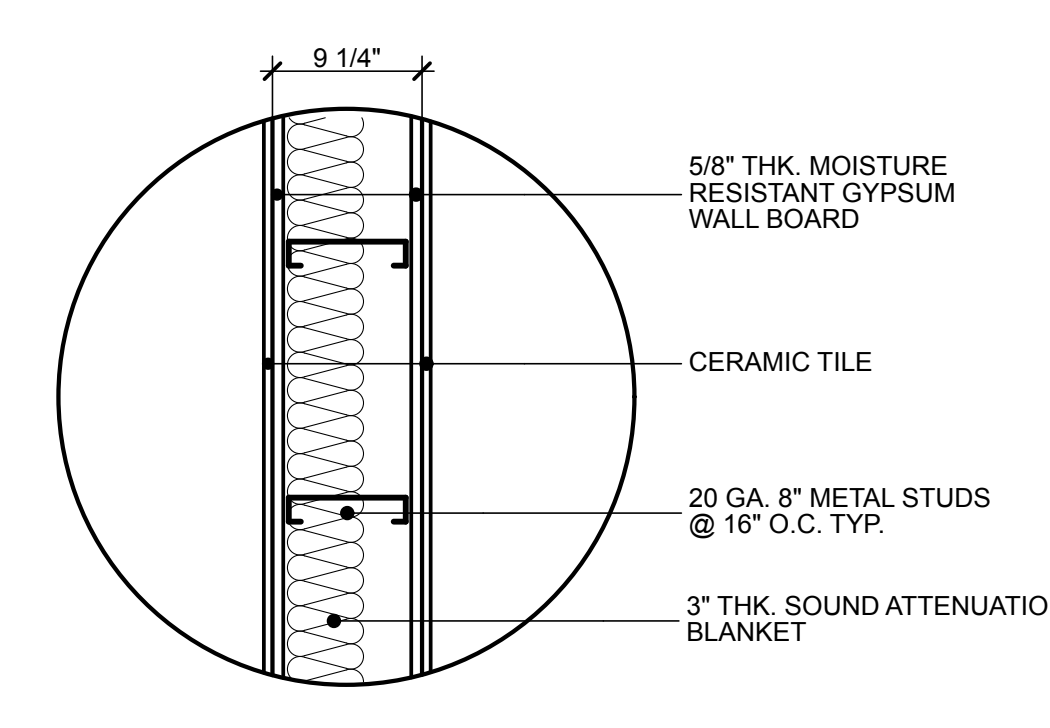
WALL TYPE W9



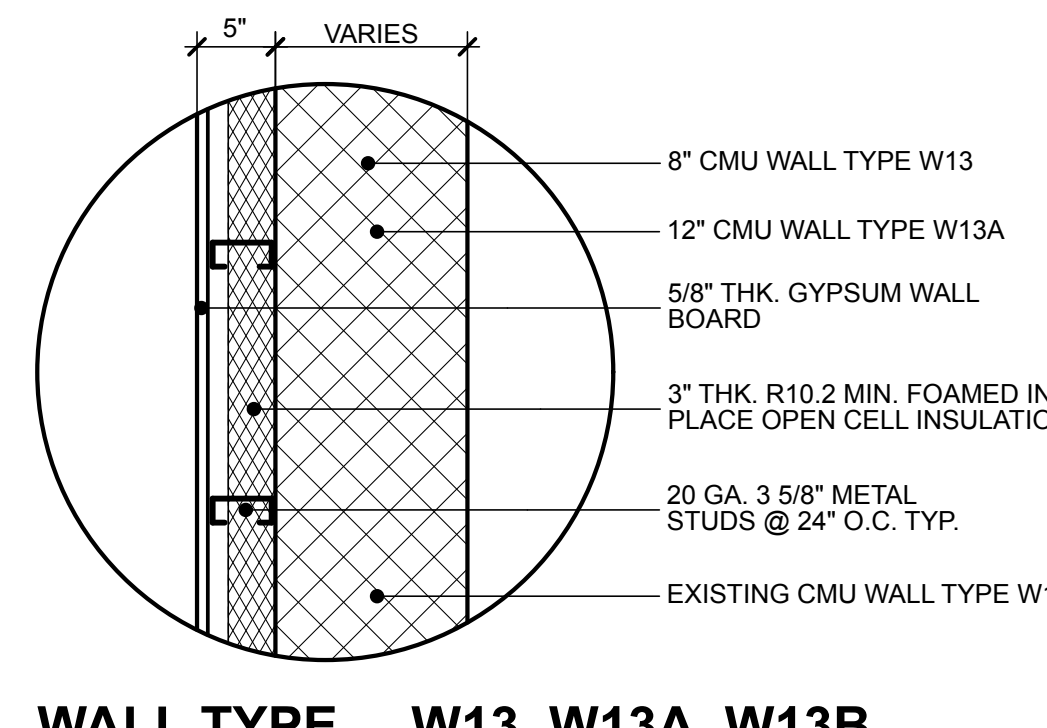
WALL TYPE W10, W10A, W10B



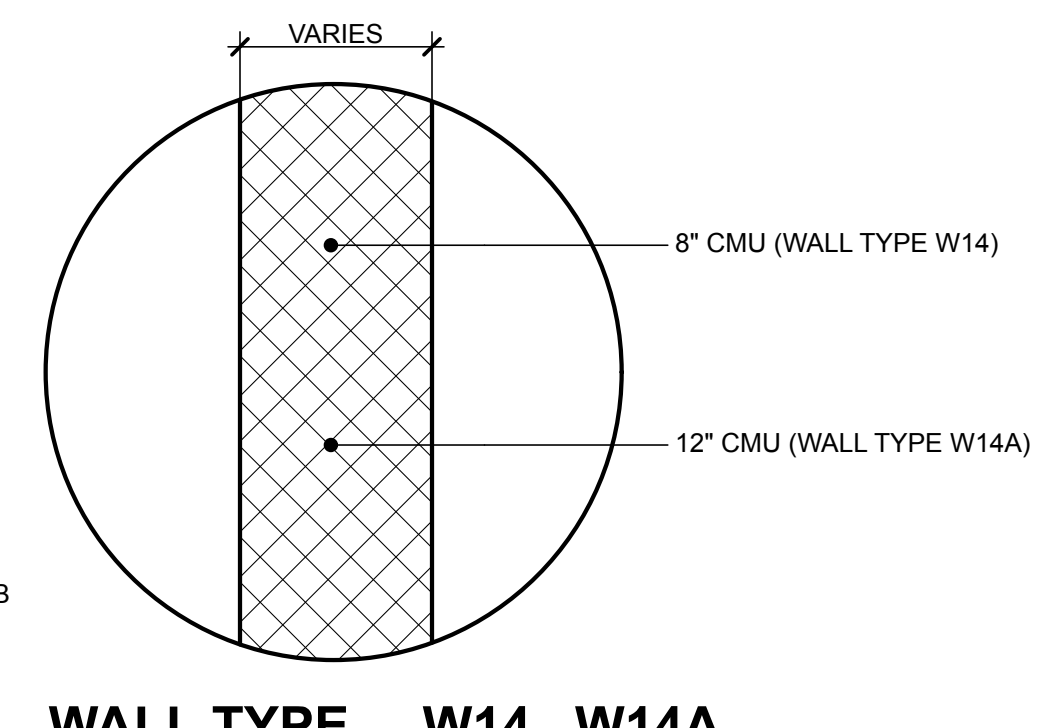
WALL TYPE W11, W11A



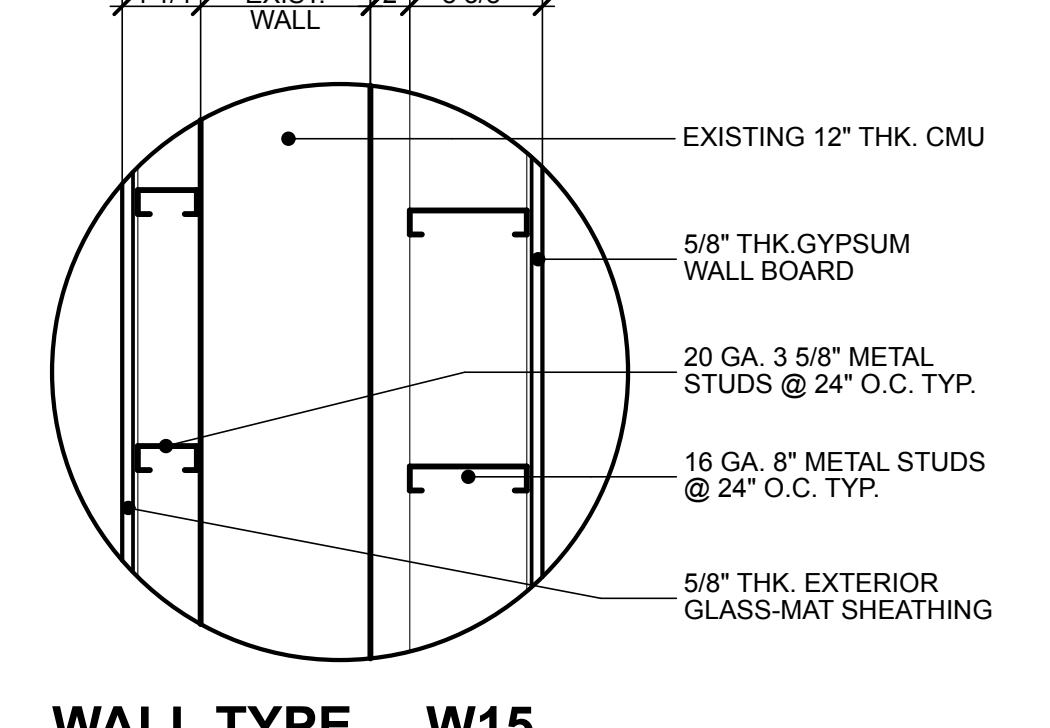
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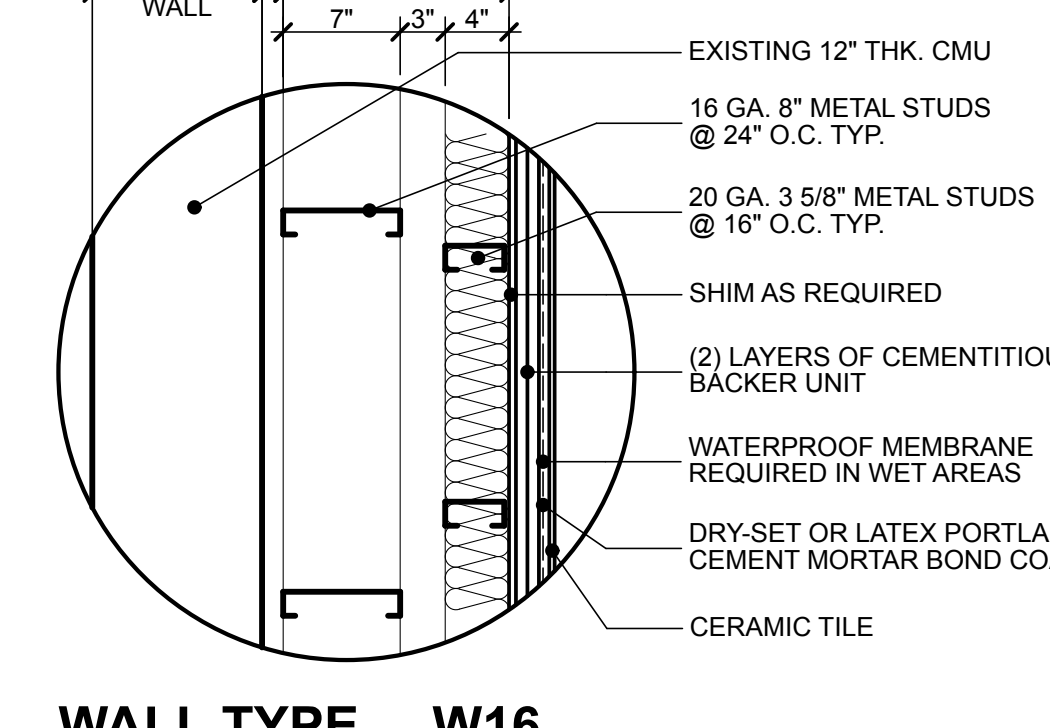
WALL TYPE W13, W13A, W13B



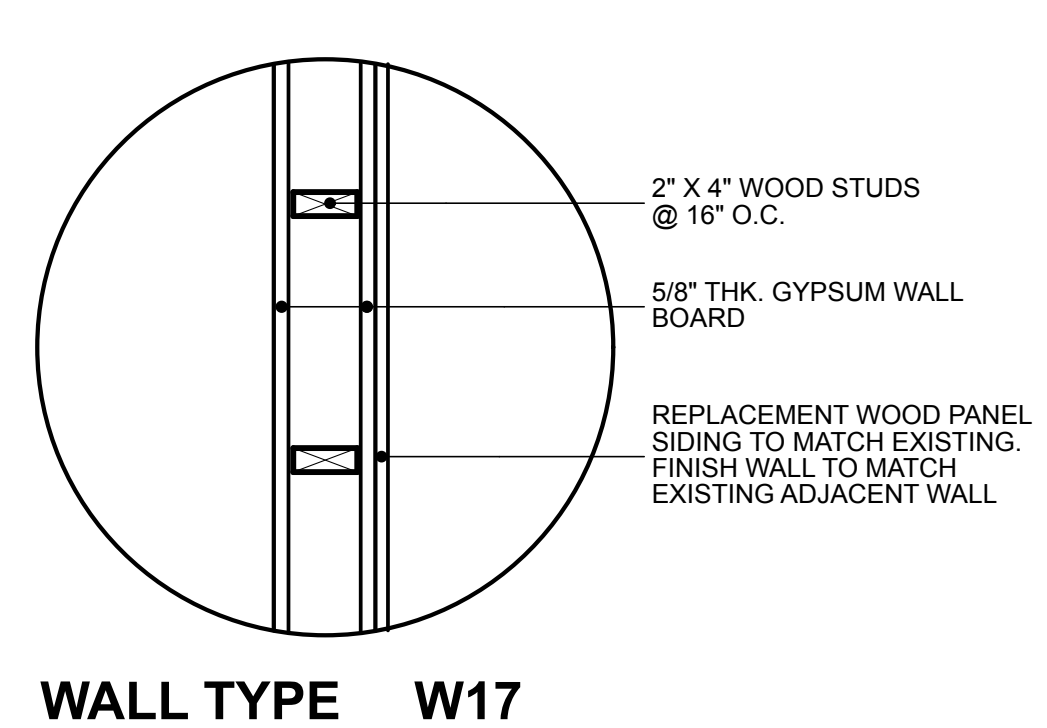
WALL TYPE W14, W14A



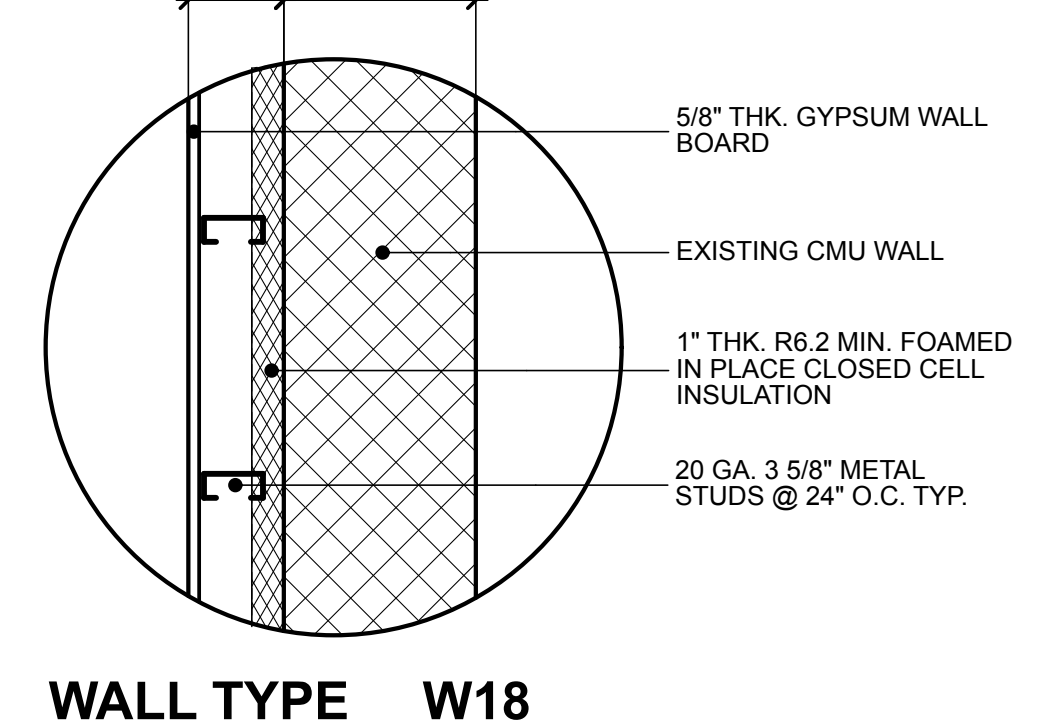
WALL TYPE W15



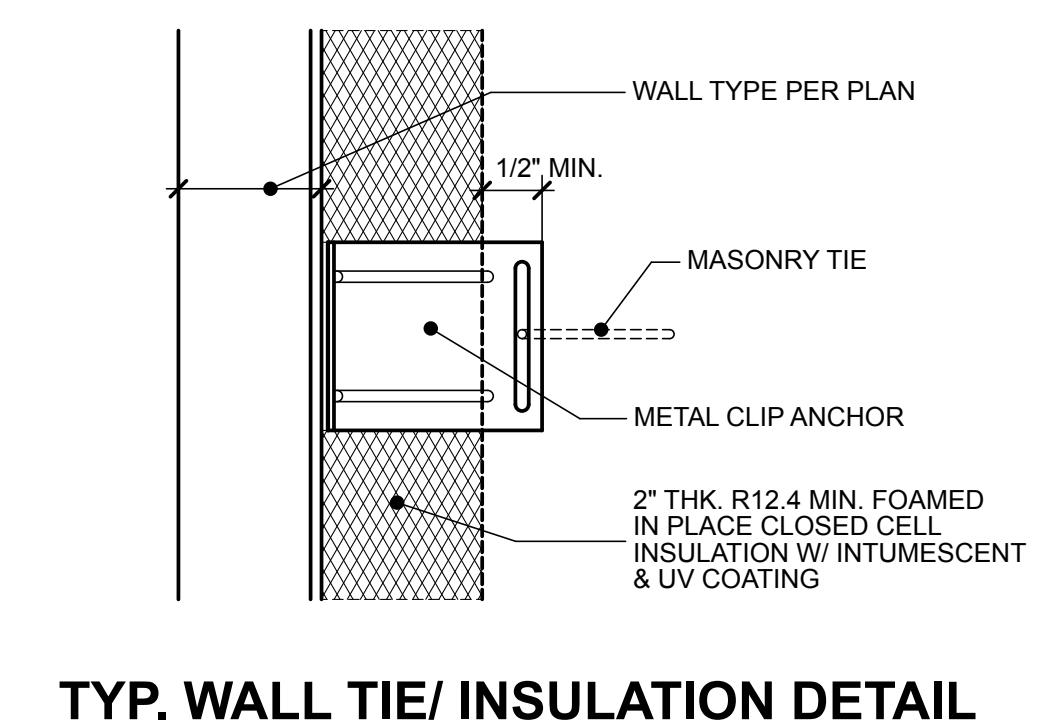
WALL TYPE W16



WALL TYPE W17



WALL TYPE W18



TYP. WALL TIE/ INSULATION DETAIL

- NOTES:**
- ALL EXTERIOR STEEL INCLUDING LINTELS TO BE PAINTED WITH HIGH PERFORMANCE COATING TYP.
 - CONTRACTORS TO ASSUME A MAXIMUM OF THREE (3) DIFFERENT PAINT COLORS PER ROOM (TYP).
 - ALL EXPOSED CONCRETE SHALL BE SEALED AND POLISHED EXCEPT EQUIPMENT BAYS (NOT POLISHED), EQUIPMENT BAYS SEALED ONLY. FOLLOW SPECIFICATION 033860, CONCRETE TREATMENT.
 - ALL EXPOSED GAS PIPING SHALL BE FIELD PAINTED "YELLOW" TYP.
 - ALL EXPOSED FIRE PROTECTION PIPING SHALL BE FIELD PAINTED "RED" TYP.
 - ALL EXPOSED STEEL BEAMS SHALL BE FIELD PAINTED "GREY" TYP.
 - ALL EXISTING FINISHES TO BE REMOVED WHERE NEW FINISHES ARE NOTED. TYPICAL UNLESS OTHERWISE NOTED.
 - ALL SHOWERS TO HAVE SLIP RESISTANT FINISH ON RF FLOORING (TYP). UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE ONE PAINT COLOR PER ROOM.

CONC.	CONCRETE (SMOOTH FINISH W/ WATERPROOF COATING)
CPT-1	CARPET TILE
CT-1	1"X1" GLASS CERAMIC TILE
CT-2	8"X8" CERAMIC TILE
LVT-1	LUXURY VINYL TILE
LVT-2	LUXURY VINYL TILE- REPLICATE WOOD PLANK FLOORING
PTD/ PL	REPAINT EXISTING PLASTER WALL, SCRAPE, PRIME AND PAINT (2 COATS EGG SHELL FINISH) EXISTING WALL.
PTD/ DW	PRIME AND PAINTED (2 COATS EGG SHELL FINISH) DRYWALL
APC1	2x4 ACOUSTICAL PANEL CEILING
APC2	2x2 ACOUSTICAL PANEL CEILING
APC3	2x4 ACOUSTICAL PANEL CEILING- KIT. UPGRADE
CFAR	COLD FLUID APPLIED ROOF
HPC	HIGH PERFORMANCE COATINGS
RF	SLIP RESISTANT RESINOUS FLOORING
TILE	MULTI- PATTERNED CERAMIC TILE FOLLOW DETAIL
OPEN	OPEN PAINTED METAL DECK CEILING (PAINTED WITH HIGH PERFORMANCE COATINGS)
PMD	
N/A	NOT APPLICABLE

GENERAL NOTES:

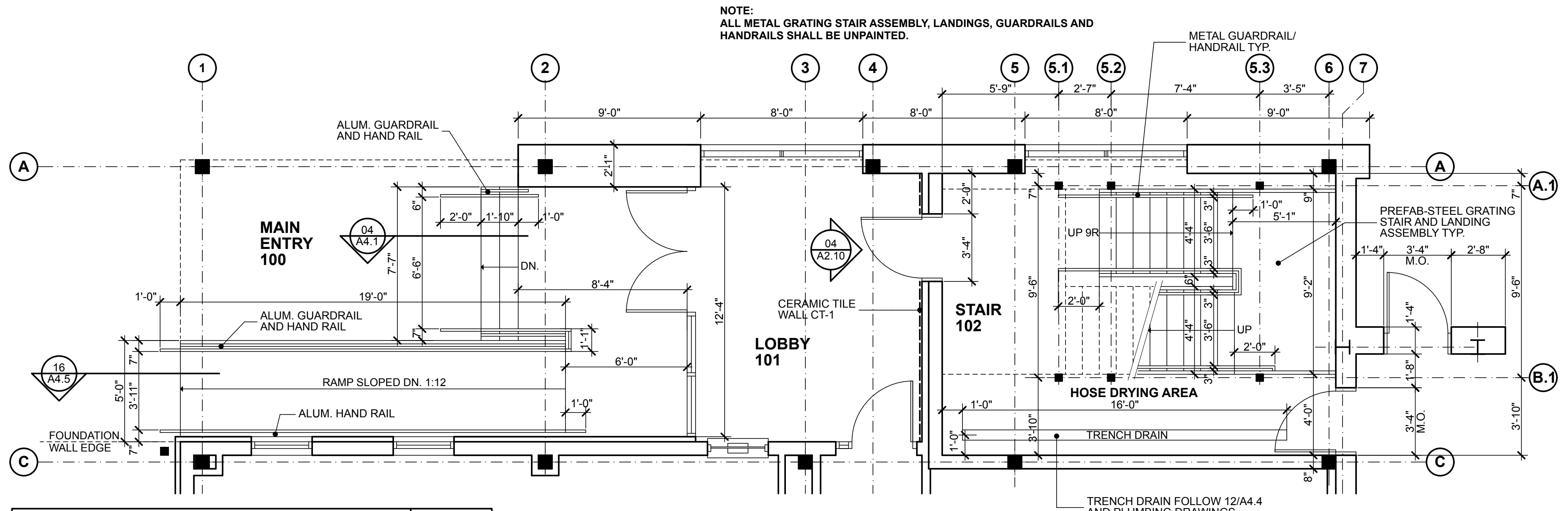
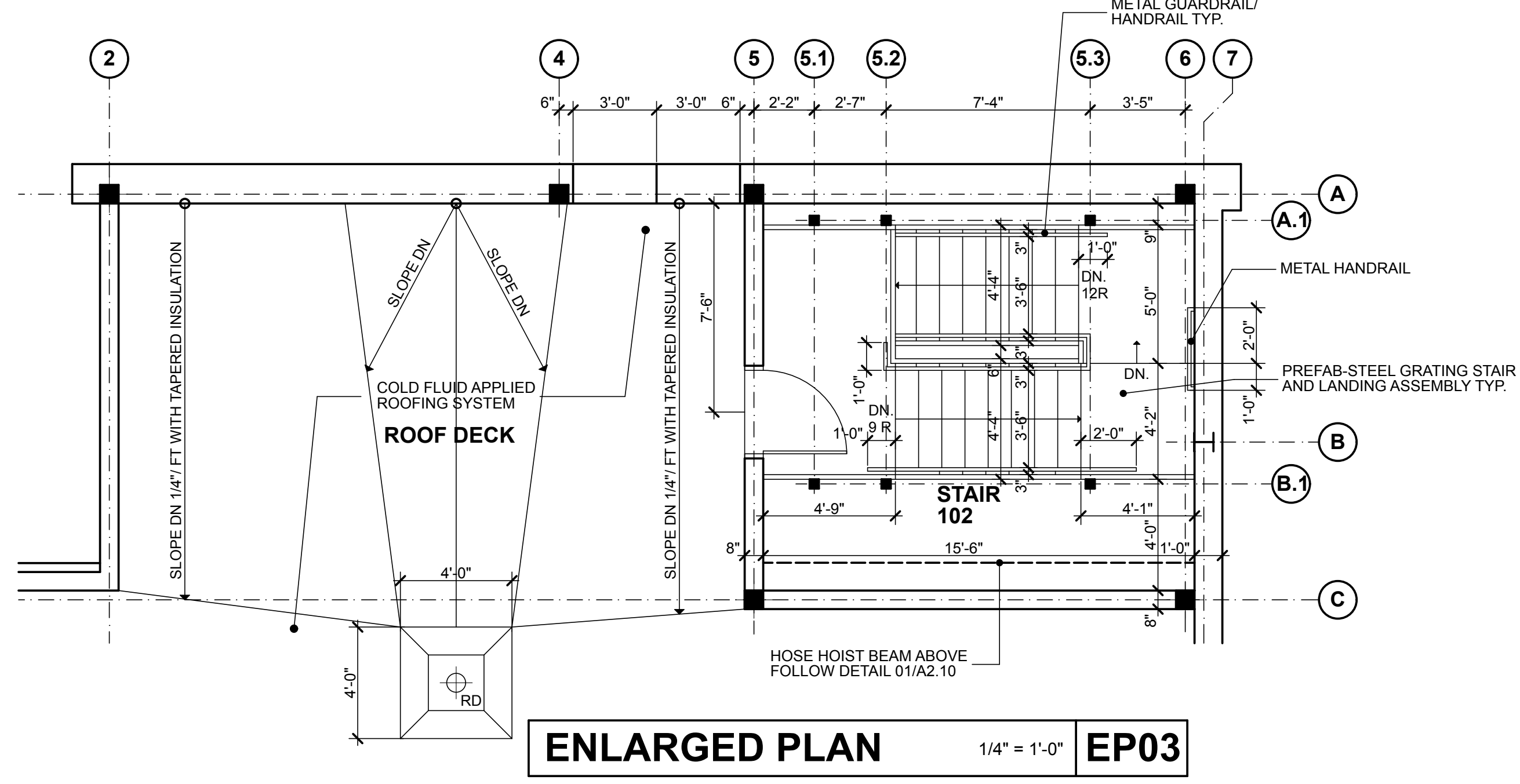
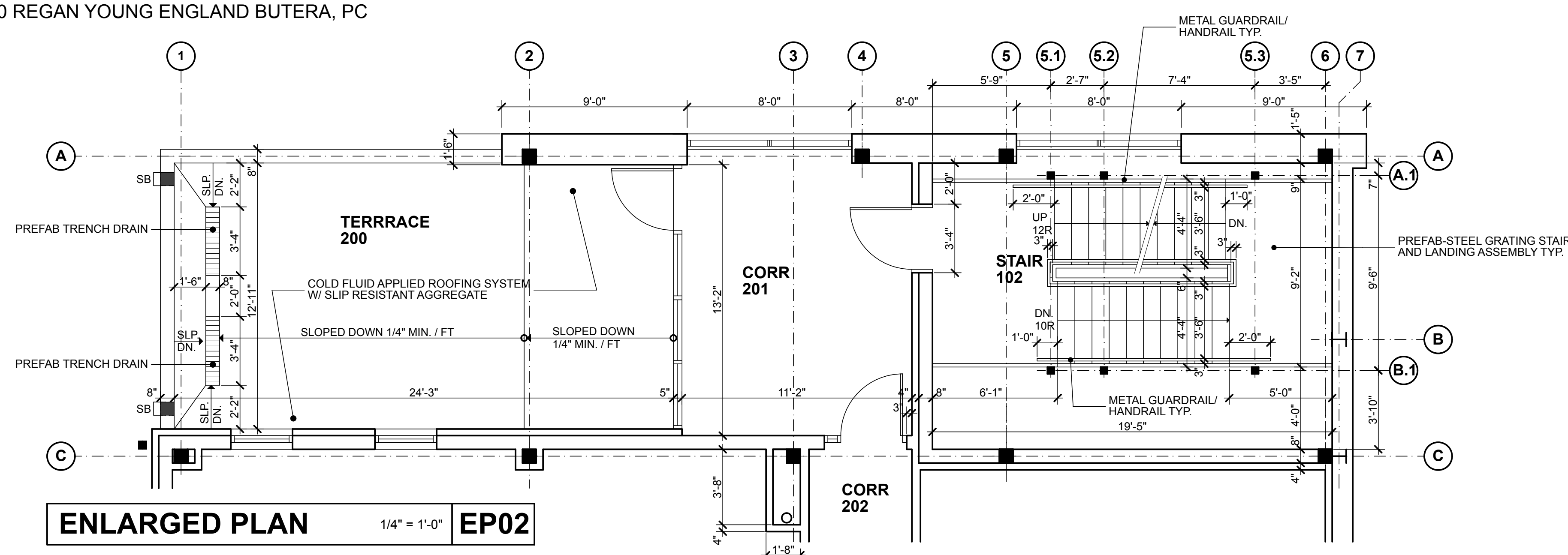
- ALL SPRAYED IN PLACE INSULATION SERVING AS CONTINUOUS IN WALL CAVITY SHALL BE CLOSED CELL FOAM TYPE TYP.
- ALL EXTERIOR WALLS WITH METAL SIDING SHALL HAVE INTUMESCENT AND UV COATINGS INSTALLED ON CONTINUOUS SPRAY FOAM INSULATION. TYP.
- PROVIDE HORIZONTAL FIRE BLOCKING 10'-0" A.F.F (TYP. AT ALL METAL STUDS PARTITIONS).
- TAPE ALL JOINTS ON ALL EXTERIOR GLASS-MAT SHEATHING

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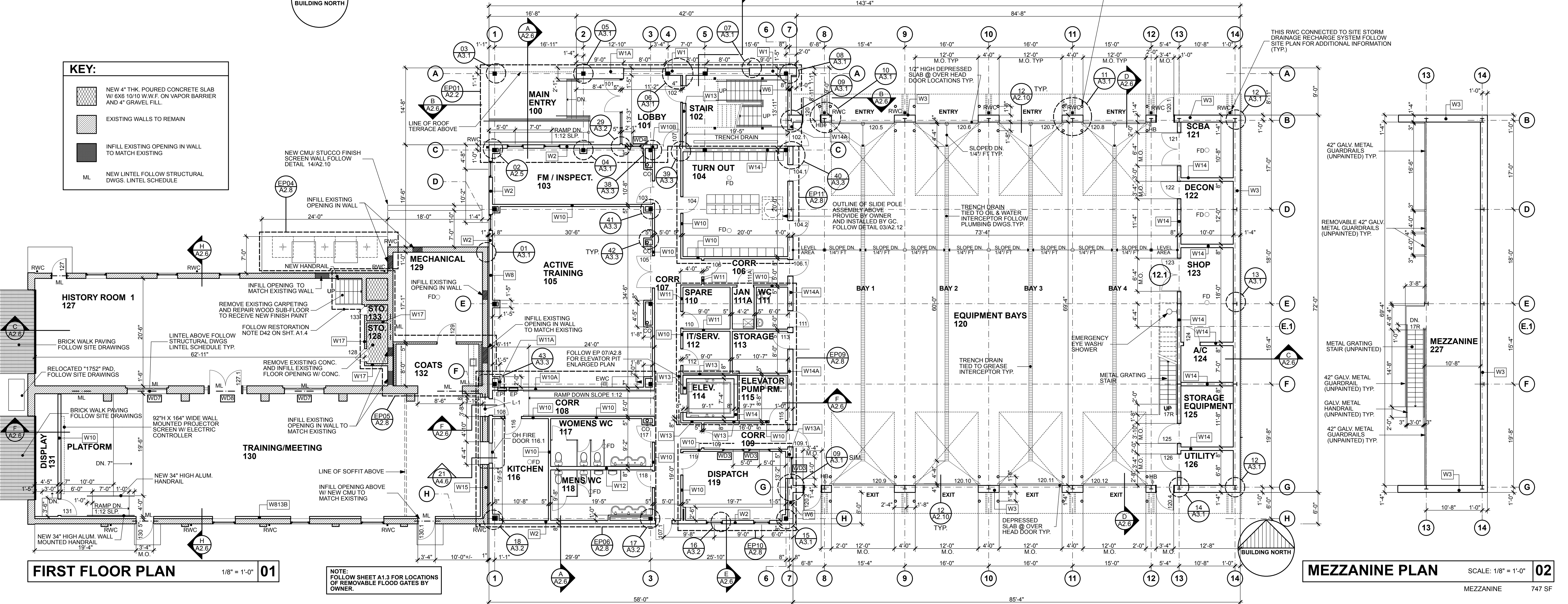
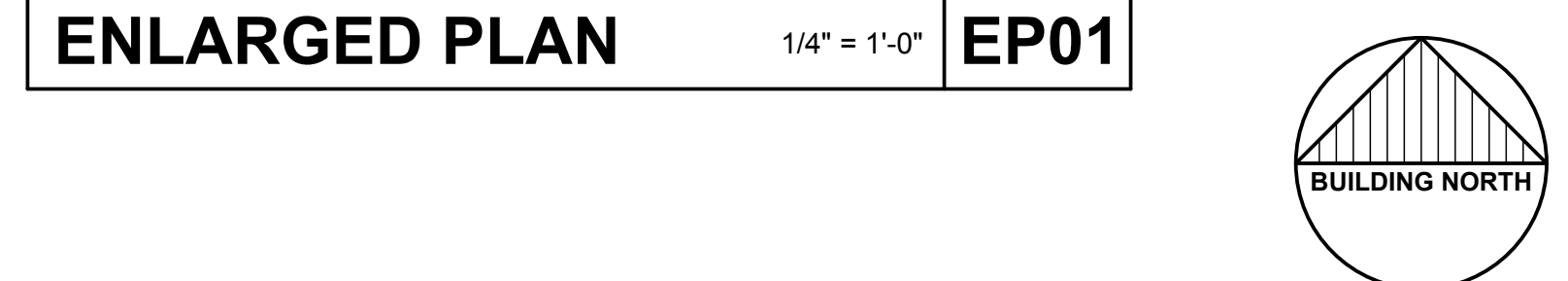
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TITLE
FINISH SCHEDULE/ WALL TYPES

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
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COMMISSION NO.:	5475B



NOTE: ALL METAL GRATING STAIR ASSEMBLY, LANDINGS, GUARDRAILS AND HANDRAILS SHALL BE UNPAINTED.



NOTE: FOLLOW SHEET A1.3 FOR LOCATIONS OF REMOVABLE FLOOD GATES BY OWNER.

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TITLE: **FIRST FLOOR & ENLARGED PLANS**

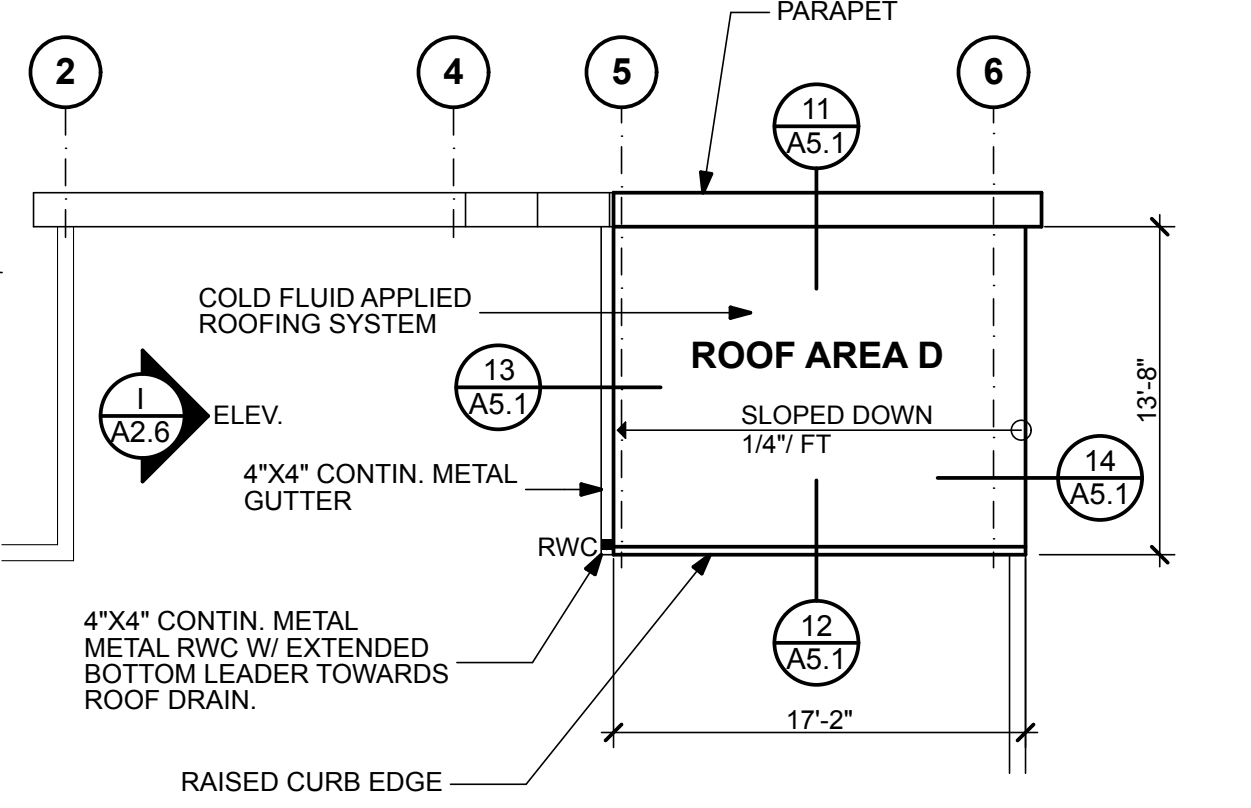
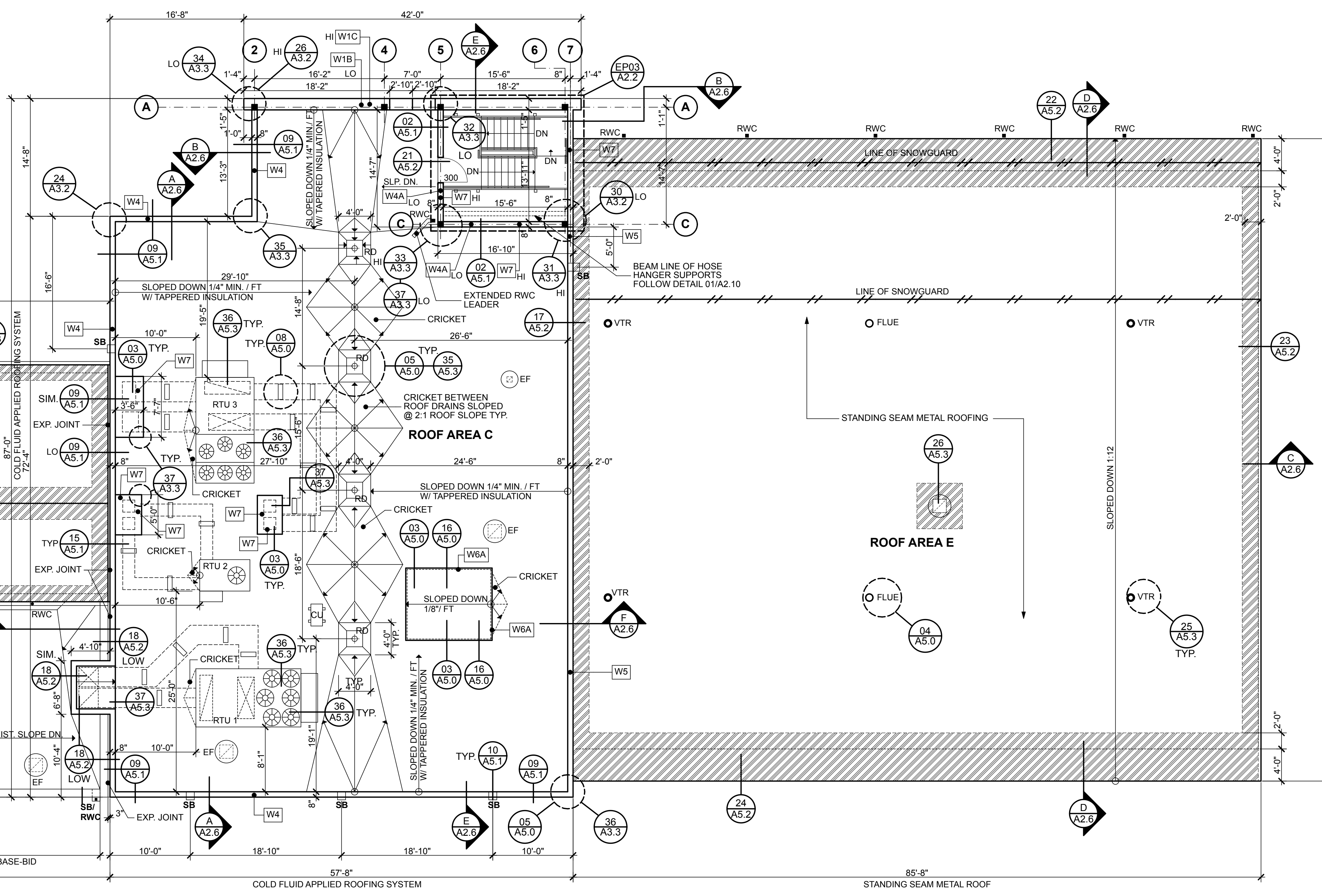
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KEY

- SELF ADHERING ICE DAM SHIELD
- REMOVE AND REPLACE EXISTING WOOD SHEATHING DECK
- RWC 4" ROUND RAIN WATER CONDUCTOR @ HISTORIC PORTION OF BUILDING
- RWC 4" X 4" METAL RAIN WATER CONDUCTOR
- SB/ OVERFLOW SCUPPER BOX
- RD INTERNAL ROOF DRAIN TIED TO UNDERGROUND SITE DRAINAGE SYSTEM (4"X4" SLOPED DRAIN AREA)



STAIR TOWER ROOF PLAN 1/8" = 1'-0" **03**

ROOFING SYSTEM DESIGN PRESSURES:

FIELD OF ROOF (ZONE 1)	26.77 PSF
PERIMETER (ZONE 2)	44.92 PSF
PERIMETER (ZONE 3)	67.61 PSF

UNDER ROOF RAIN LOAD DATA:

RAIN INTENSITY (IN/HR):	9.3
ROOF RAINFALL DESIGN ARE (ft2):	6,827
MIN. GUTTER WIDTH (IN):	6" RECTANGULAR
MIN. GUTTER DEPTH (IN):	5"
NUMBER OF DOWNSPOUTS:	6
MIN. DOWNSPOUT SIZE (IN)	4"X5"

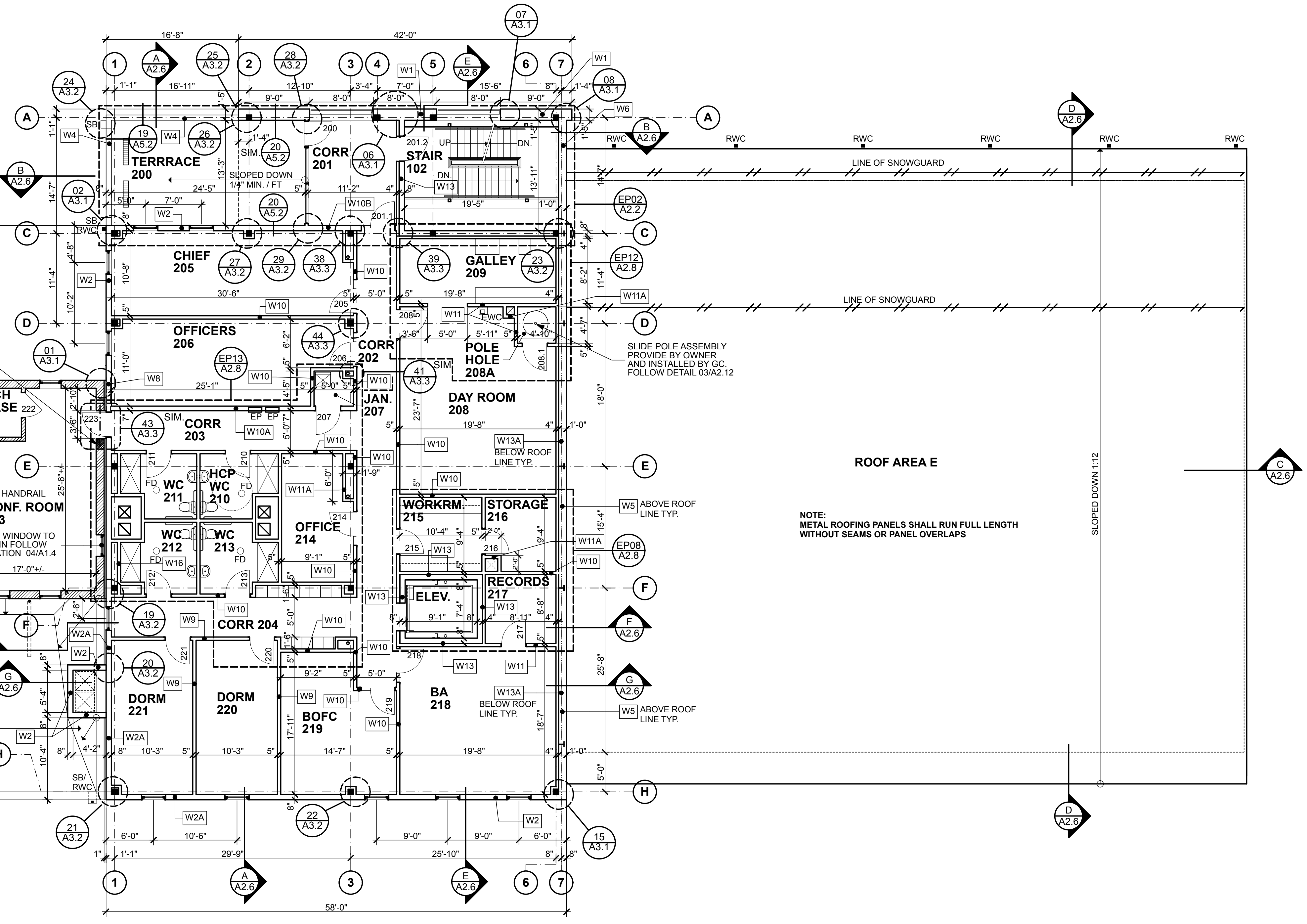
CALCULATIONS ARE DERIVED FROM SMACNA ARCHITECTURAL SHEET METAL MANUAL (7TH EDITION). RAIN INTENSITY BASED IN TRENTON, NJ (100 YEARS)

ROOF PLAN 1/8" = 1'-0" **02**

KEY:

- NEW 4" THK. POURED CONCRETE SLAB W/ 6X6 10/10 W.W.F. ON VAPOR BARRIER AND 4" GRAVEL FILL.

NOTE: REPAIR ALL INTERIOR PLASTER CRACKS TYP.



SECOND FLOOR PLAN 1/8" = 1'-0" **03**



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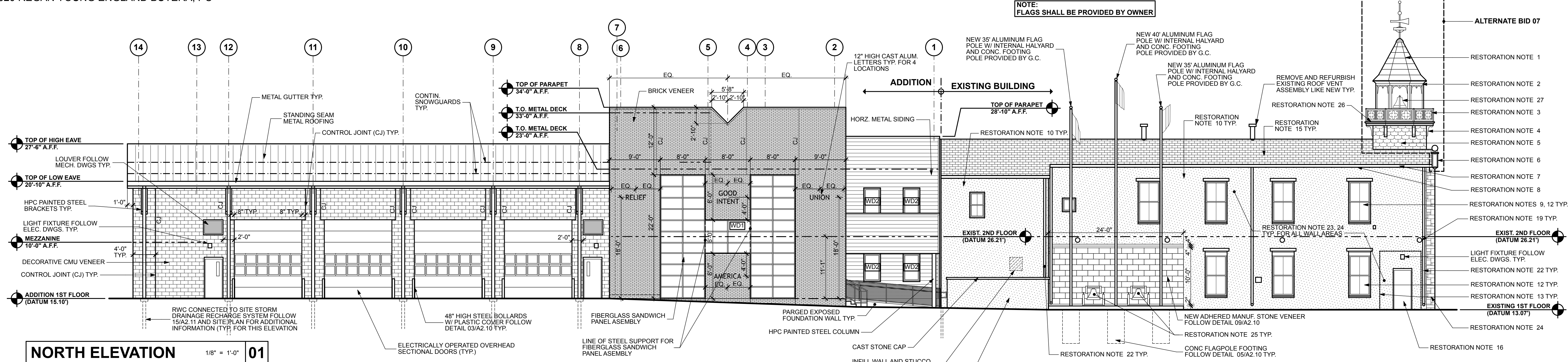
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TITLE: **SECOND FLOOR & ROOF PLANS**

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NORTH ELEVATION 1/8" = 1'-0" **01**

HISTORIC GUTTER NOTE:

REPLACE ALL EXISTING METAL GUTTER WITH NEW 5" HALF ROUND PAINTED TCS GUTTER THOROUGHLY SOLDER TOP LEADERS INTO GUTTER ASSEMBLY. NEW TCS GUTTER SHALL BE PREPARED AND PAINTED (BRUSHED APPLIED). COLOR SELECTED BY ARCHITECT. ALL NEW HANGERS AND MISC. ACCESSORIES SHALL MATCH EXISTING.

HISTORIC DOWNSPOUT (RWC) NOTE:

REPLACE ALL EXISTING DOWNSPOUT, TOP AND BOTTOM LEADERS WITH NEW ROUND RWC CORRUGATED METAL TCS RWC. THOROUGHLY SOLDER TOP AND BOTTOM LEADERS INTO NEW TCS METAL GUTTER ASSEMBLY. TCS METAL RWC SHALL BE PREPARED AND PAINTED (BRUSHED APPLIED). COLOR SELECTED BY ARCHITECT. DIAMETER OF NEW TCS METAL RWC AND ALL POST, KEYS, ETC. TO MATCH EXISTING.

GENERAL PAINTING NOTE:

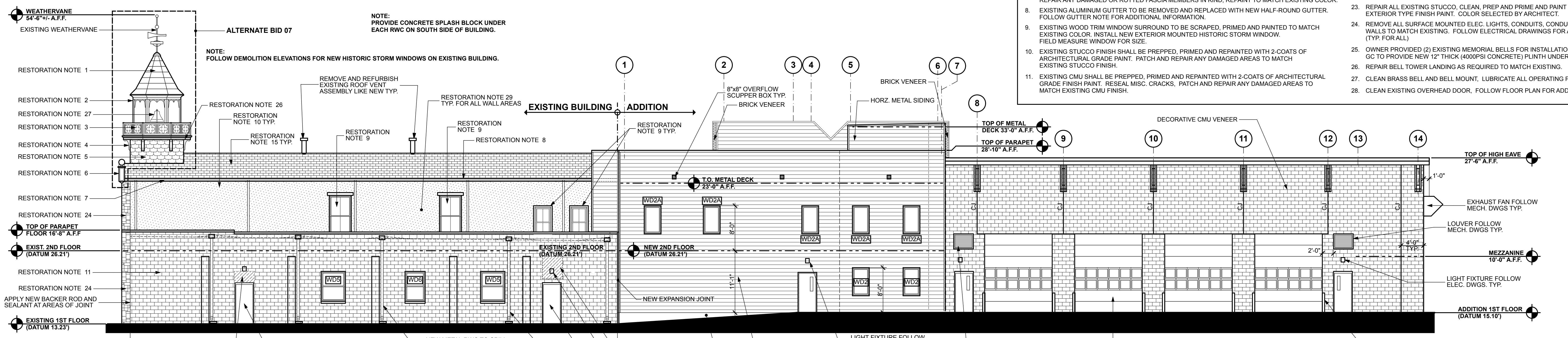
- CLEAN, PREPARE, PRIME AND PAINT PREVIOUSLY PAINTED SURFACES TO RECEIVE NEW PAINT.
- THIS INCLUDES BUT IS NOT LIMITED TO: WOOD SIDING, TRIMS, SOFFIT, FASCIA, DECORATIVE WINDOW AND ELEMENTS, BALLUSTERS, HANDRAILS, BRACKETS, CORNICES, CEILING SURFACES, DOORS TRIMS AND SASH TRIMS.
- CONTRACTOR TO ASSUME 4 DIFFERENT EXTERIOR PAINT COLORS. COLORS TO BE SELECTED BY ARCHITECTS DURING CONSTRUCTION. NOTE: REPAINTING OF ALL GULLIA COMPONENTS TO MATCH EXISTING.
- ALL EXTERIOR STEEL COLUMNS, DOORS, FRAMES AND TRIMS SHALL BE FINISHED W/ HPC (TYP).

ALUMINUM STORM WINDOW NOTE:

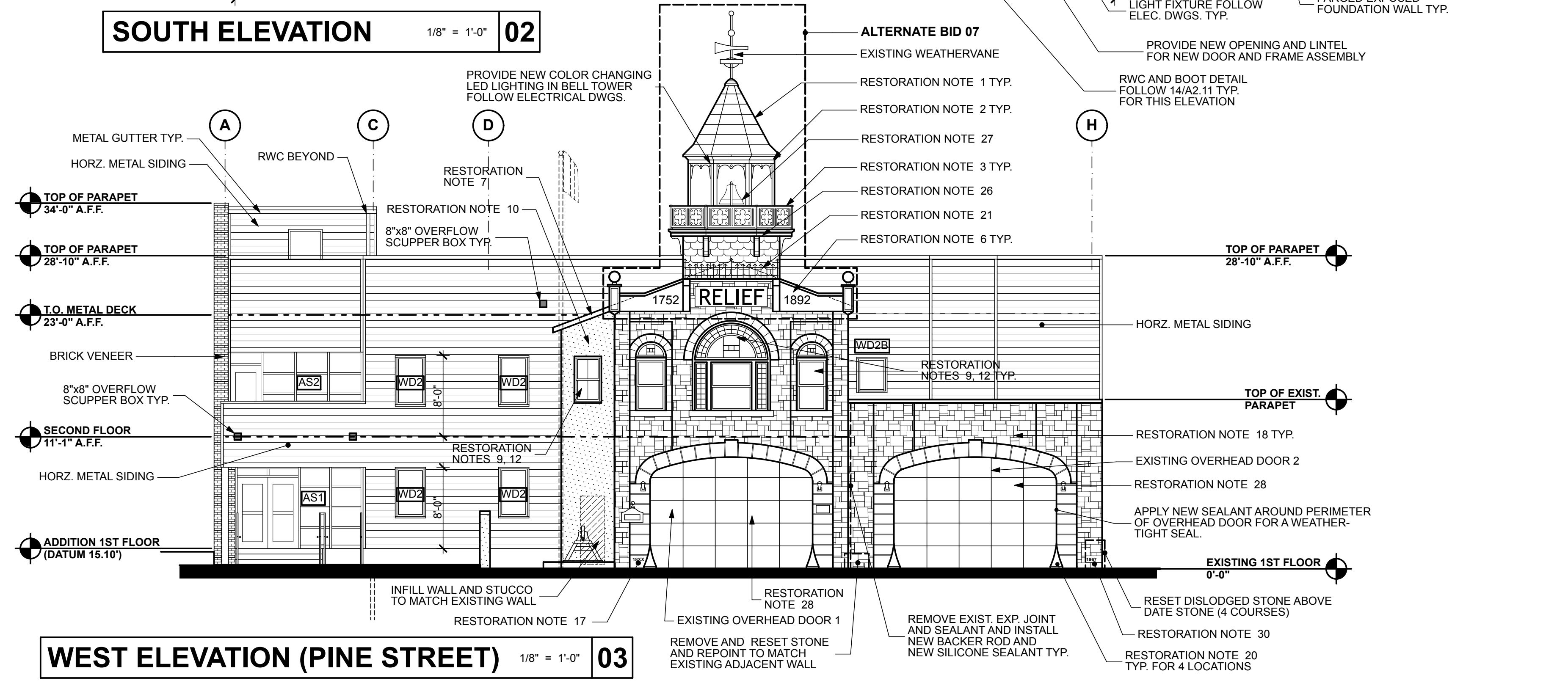
- PROVIDE EXTERIOR MOUNTED ALUMINUM STORM WINDOW.
- CONTRACTOR TO ACCURATELY FIELD MEASURE ALL EXISTING WINDOWS AND MAINTAIN EXISTING WINDOW SITE LINES.

BASE-BID RESTORATION NOTES:

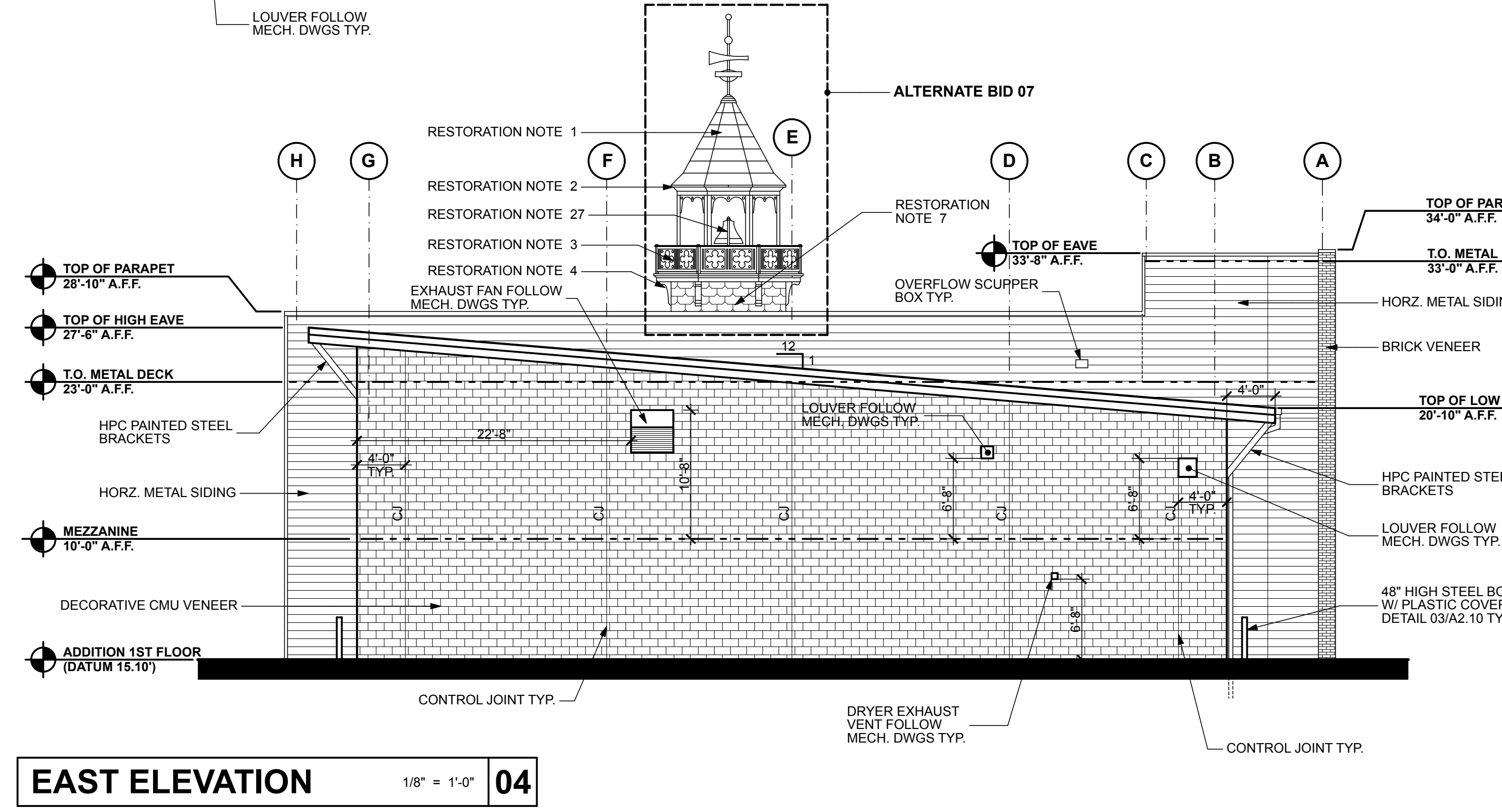
- CLEAN EXISTING COPPER ROOF. REPAIR AND SECURE ANY LOOSE PIECES.
- EXISTING WOOD FASCIA TRIM, CORNICE, POST AND DECORATIVE BRACKETS TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR. REPAIR ANY DAMAGED OR ROTTED WOOD MEMBERS IN KIND, REPAIR TO MATCH EXISTING COLORS.
- EXISTING RAILING, POST, DECORATIVE BALLUSTER PANEL AND MISC. BOTTOM CORNICE TRIM ASSEMBLY TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR. REPAIR ANY DAMAGED OR ROTTED WOOD MEMBERS IN KIND, REPAIR TO MATCH EXISTING COLORS.
- EXISTING DECORATIVE WOOD BRACKET ASSEMBLY TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR. REPAIR ANY DAMAGED OR ROTTED WOOD AND TO BE REPAINTED TO MATCH EXISTING COLOR.
- EXISTING WOOD SCALLOPPED SIDING SHINGLES TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR. REPAIR OR REPLACE DAMAGED SHINGLES AND REPAIR TO MATCH EXISTING COLOR.
- EXISTING WOOD TRIM PIECES, DECORATIVE PANEL AND MISC. BOTTOM CORNICE TRIM ASSEMBLY TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR. REPAIR ANY DAMAGED OR ROTTED WOOD MEMBERS IN KIND, REPAIR TO MATCH EXISTING COLORS.
- EXISTING WOOD FASCIA TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR. REPAIR ANY DAMAGED OR ROTTED FASCIA MEMBERS IN KIND, REPAIR TO MATCH EXISTING COLOR.
- EXISTING ALUMINUM GUTTER TO BE REMOVED AND REPLACED WITH NEW HALF-ROUND GUTTER. FOLLOW GUTTER NOTE FOR ADDITIONAL INFORMATION.
- EXISTING WOOD TRIM WINDOW SURROUND TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR. INSTALL NEW EXTERIOR MOUNTED HISTORIC STORM WINDOW. FIELD MEASURE WINDOW FOR SIZE.
- EXISTING STUCCO FINISH SHALL BE PREPARED, PRIMED AND REPAINTED WITH 2-COATS OF ARCHITECTURAL GRADE PAINT. PATCH AND REPAIR ANY DAMAGED AREAS TO MATCH EXISTING STUCCO FINISH.
- EXISTING CMU SHALL BE PREPARED, PRIMED AND REPAINTED WITH 2-COATS OF ARCHITECTURAL GRADE FINISH PAINT. RESEAL MISC. CRACKS. PATCH AND REPAIR ANY DAMAGED AREAS TO MATCH EXISTING CMU FINISH.
- REPAIR EXISTING WINDOW UNIT AND HEADER. REMOVE ALL TAPE ATTACHED TO WINDOW GLASS AND SCRAPE CLEAN. REMOVE AND REPLACE ANY BROKEN WINDOW GLASS WITH NEW TO MATCH EXISTING.
- DEMOLISH EXISTING NON-HISTORIC ENTRY VESTIBULE, FOUNDATION AND FOOTING. FOLLOW SHEET A1.5 FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING STORAGE ROOM ADDITION. INFILL MISSING STUCCO W/ FIRST RESPONDER MEMORIAL CAST STONE.
- REMOVE AND REPLACE ASPHALT ROOF SHINGLES AND FLASHING TO MATCH EXISTING ROOF.
- NEW DOOR ASSEMBLY IN EXISTING WALL OPENING.
- CLEAN AND REPAIR ALL NUMERAL OF DATE STONE TO MATCH EXISTING. TYP.
- GENTLY CLEAN EXISTING MASONRY ON PRIMARY HISTORICAL FACADE WHERE NEEDED.
- EXISTING WALL TIES TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR.
- EXISTING BOLLARDS TO BE SCRAPPED, PRIMED AND PAINTED TO MATCH EXISTING COLOR.
- SCRAPE, PRIME AND PAINT EXISTING CUSTOM DECORATIVE RAILING, BRACKET AND POST TYP.
- INSTALL NEW ROUND TCS DOWNSPOUT (RWC). NEW RWC TO CONNECT TO SITE DRAINAGE SYSTEM. SEE SITE PLAN FOR ADDITIONAL INFORMATION. FOLLOW ADDITIONAL DOWNSPOUT NOTES.
- REPAIR ALL EXISTING STUCCO. CLEAN, PREP AND PRIME AND PAINT WITH (2) COATS OF EXTERIOR TYPE FINISH PAINT. COLOR SELECTED BY ARCHITECT.
- REMOVE ALL SURFACE MOUNTED ELEC. LIGHTS, CONDUITS, CONDUIT BRACKETS AND PATCH WALLS TO MATCH EXISTING. FOLLOW ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. (TYP. FOR ALL)
- OWNER PROVIDED (2) EXISTING MEMORIAL BELLS FOR INSTALLATION BY THE GC. GC TO PROVIDE NEW 12" THICK (4000PSI CONCRETE) PLINTH UNDER BELL ASSEMBLY.
- REPAIR BELL TOWER LANDING AS REQUIRED TO MATCH EXISTING.
- EXISTING BRASS BELL AND BELL MOUNT. LUBRICATE ALL OPERATING PARTS AND COMPONENTS.
- CLEAN EXISTING OVERHEAD DOOR. FOLLOW FLOOR PLAN FOR ADDITIONAL NOTES.



SOUTH ELEVATION 1/8" = 1'-0" **02**



WEST ELEVATION (PINE STREET) 1/8" = 1'-0" **03**



EAST ELEVATION 1/8" = 1'-0" **04**

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BUILDING ELEVATIONS

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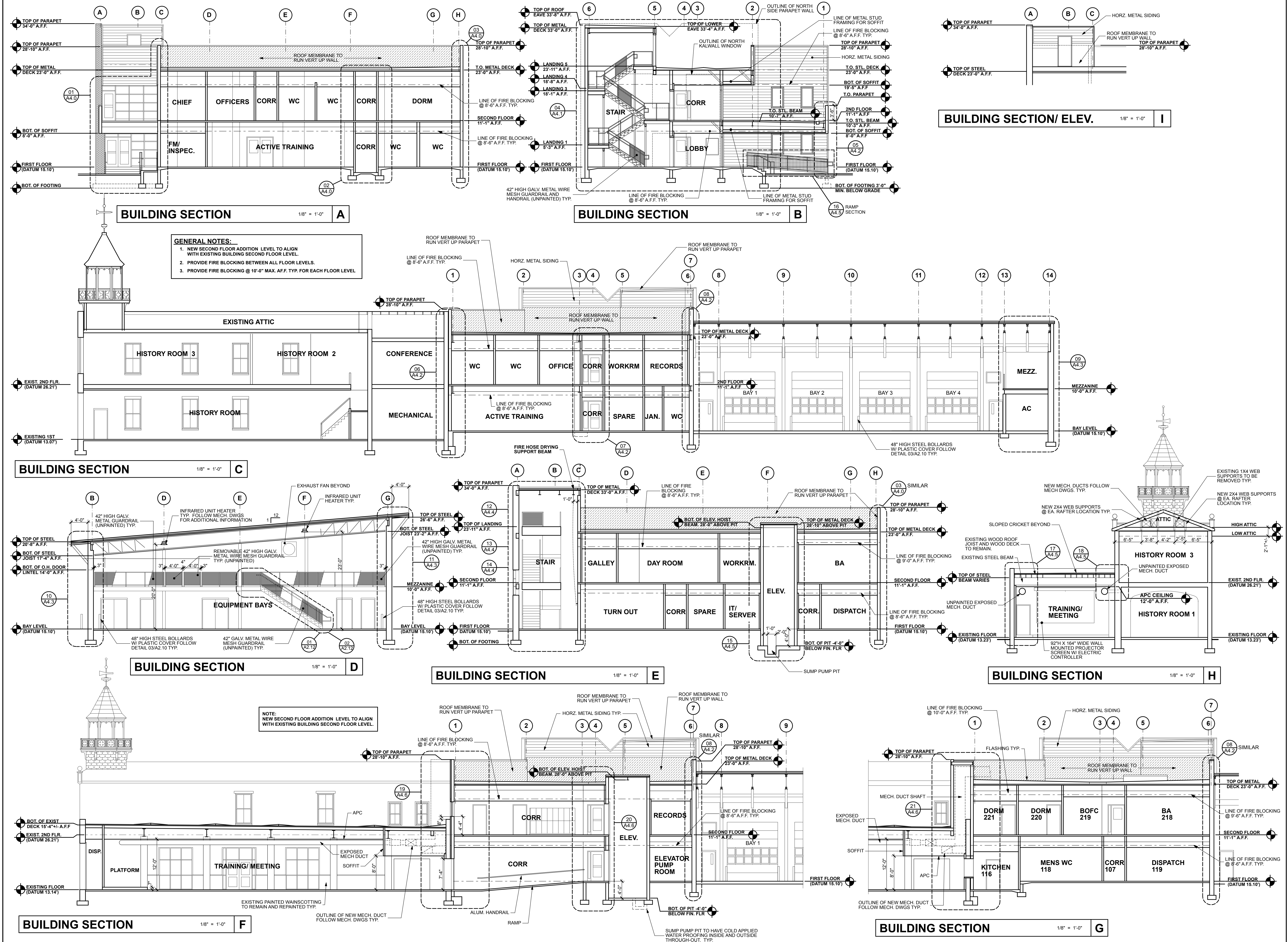
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A2.5

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- GENERAL NOTES:**
1. NEW SECOND FLOOR ADDITION LEVEL TO ALIGN WITH EXISTING BUILDING SECOND FLOOR LEVEL.
 2. PROVIDE FIRE BLOCKING BETWEEN ALL FLOOR LEVELS.
 3. PROVIDE FIRE BLOCKING @ 10'-0" MAX. AFF. TYP. FOR EACH FLOOR LEVEL.

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BUILDING SECTIONS

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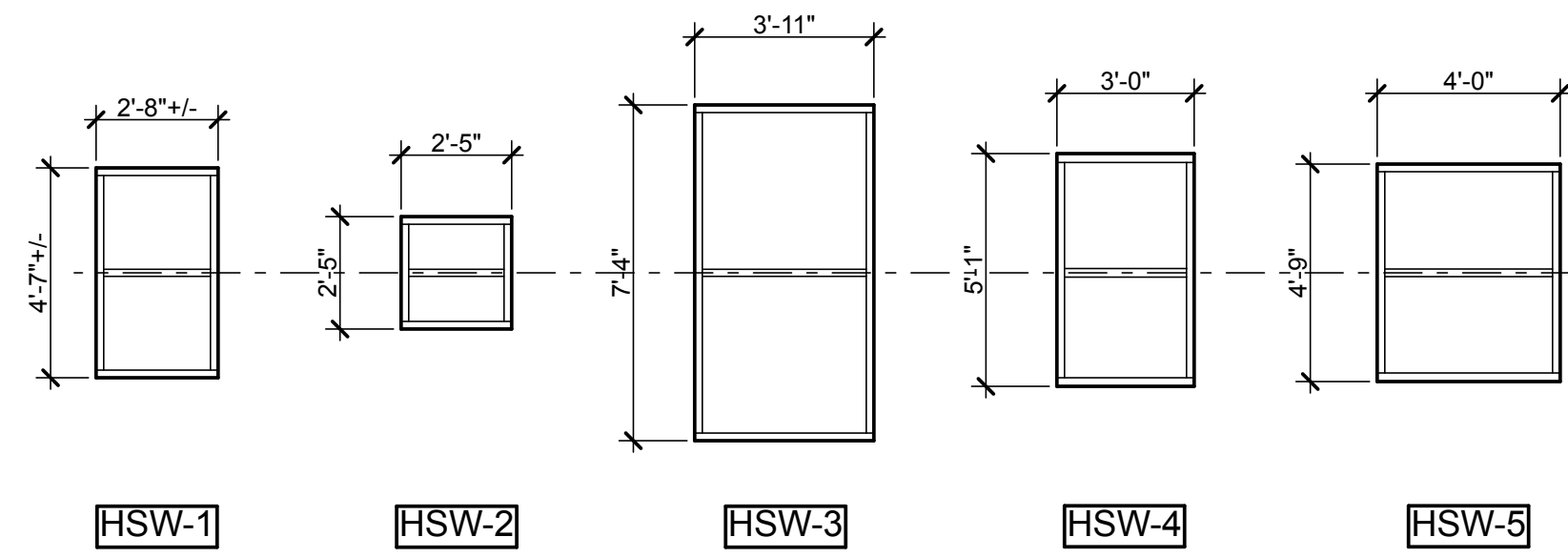
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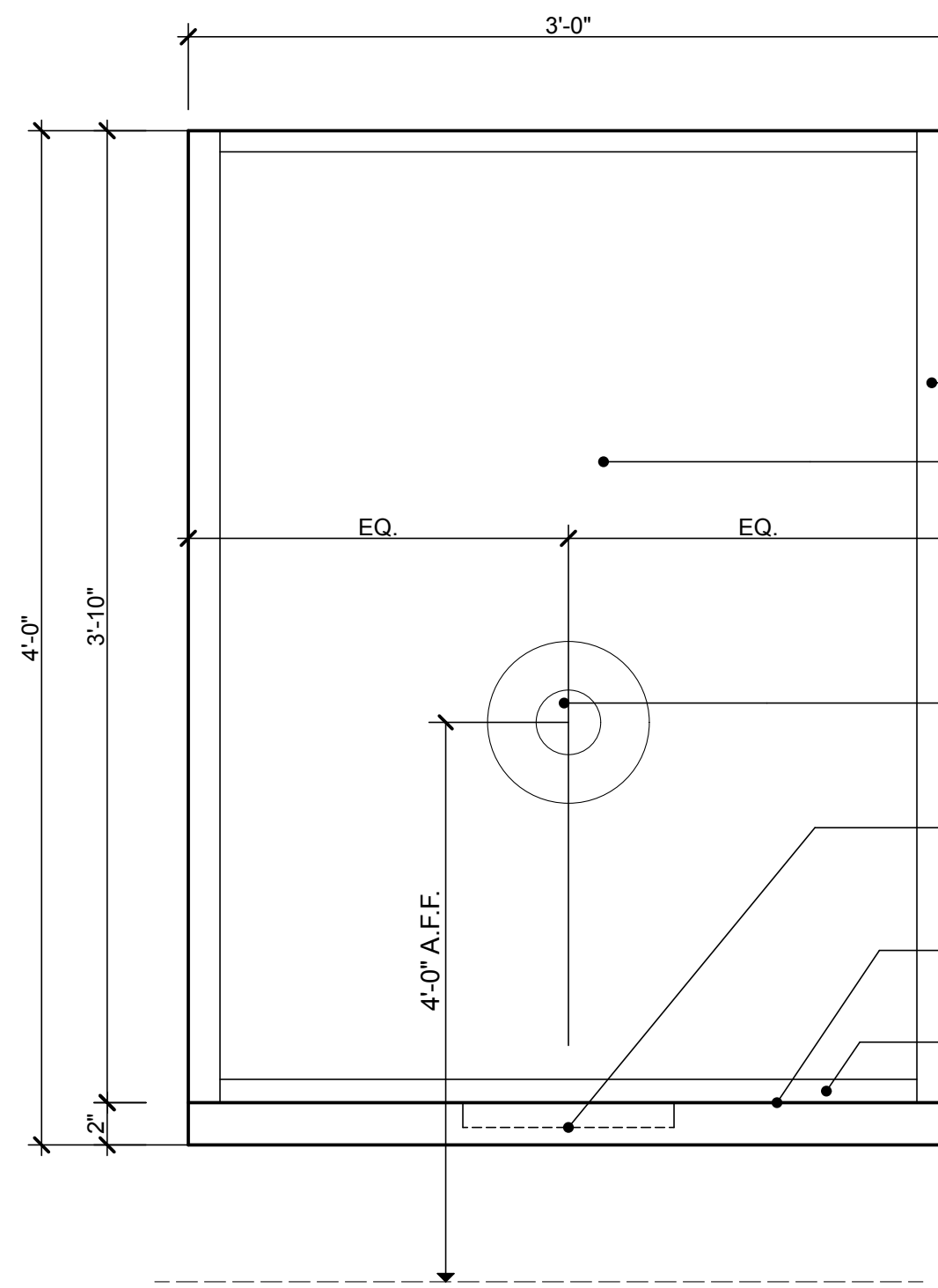
HISTORIC STORM WINDOW TYPES 1/4" = 1'-0" **A**

NOTE: CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS FOR NEW HISTORIC STORM WINDOWS

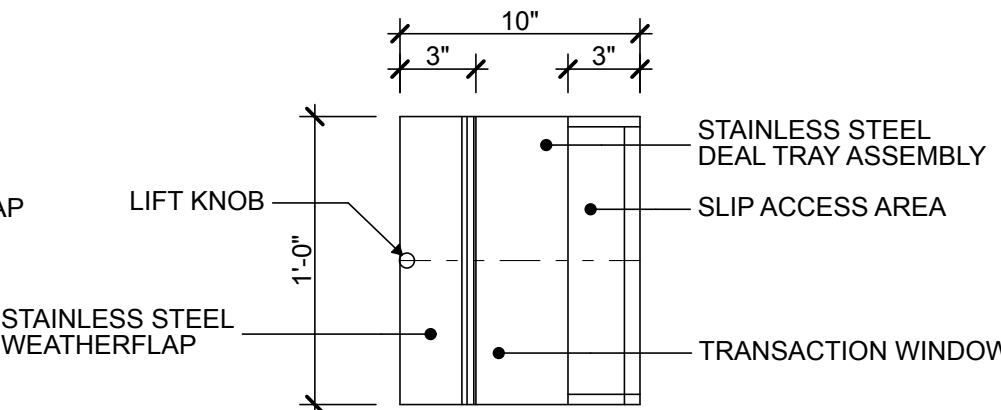
EXISTING HISTORIC WINDOW NOTE: FOLLOW SPECIFICATIONS SECTION 080153 HISTORIC TREATMENT FOR WOOD WINDOWS FOR RENOVATION OF EXISTING HISTORIC WINDOWS. (TYP. FOR ALL WINDOWS)



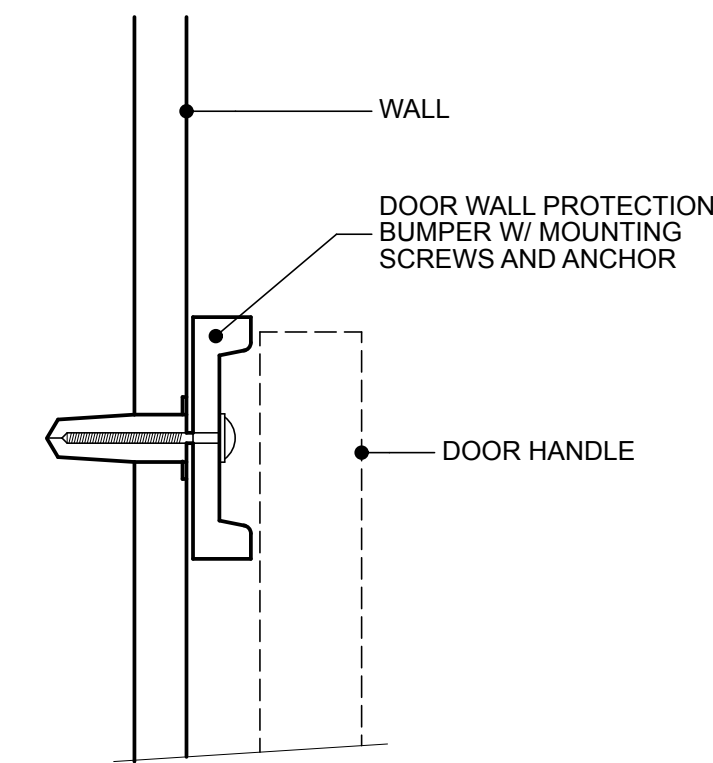
CENTER W/ EXISTING WINDOW SASH TYP.



DEAL TRAY DETAIL 1 1/2" = 1'-0" **03**

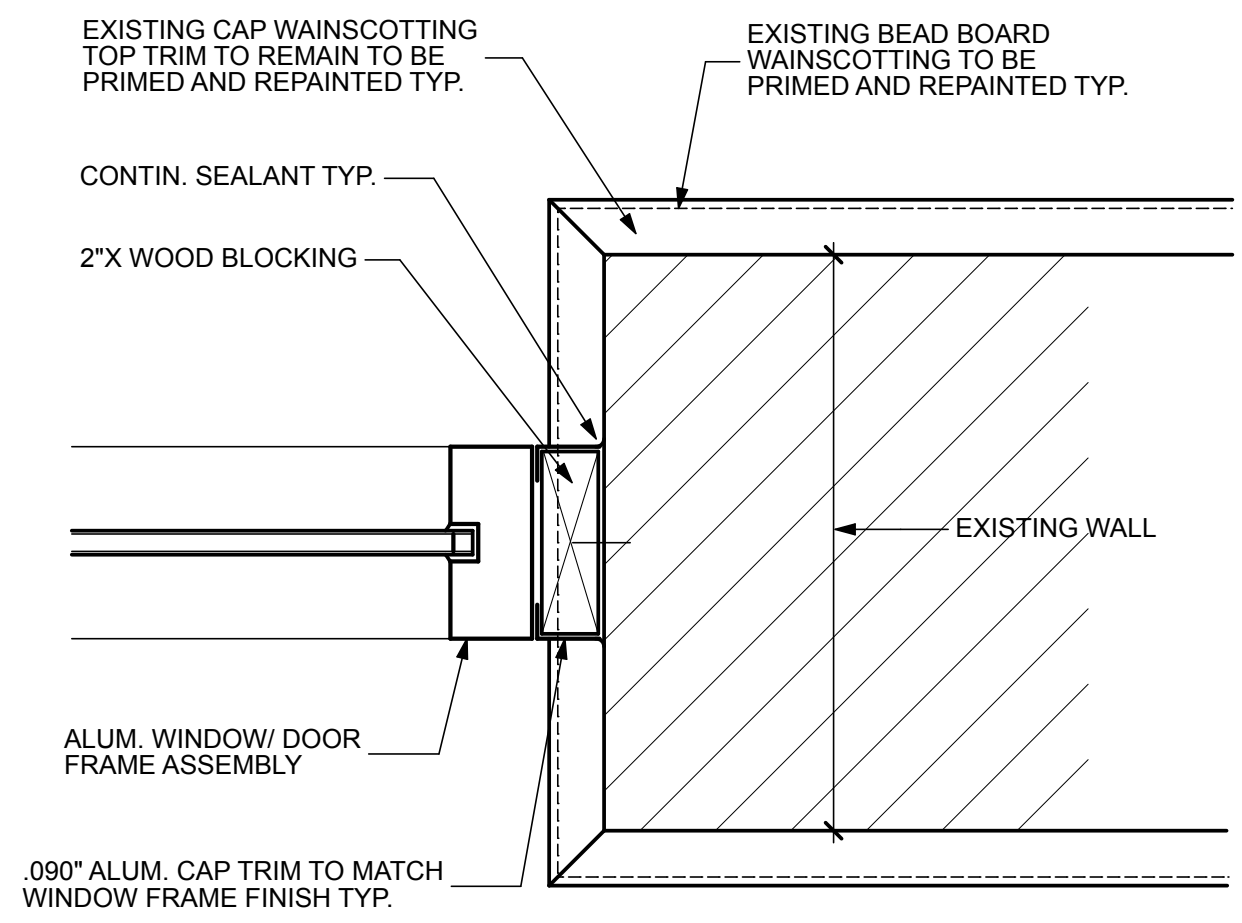


DEAL TRAY DETAIL 1 1/2" = 1'-0" **02**



TYP. WALL PROTECTION DETAIL 1 1/2" = 1'-0" **04**

TYP. CORNER GUARD DETAIL NTS **05**

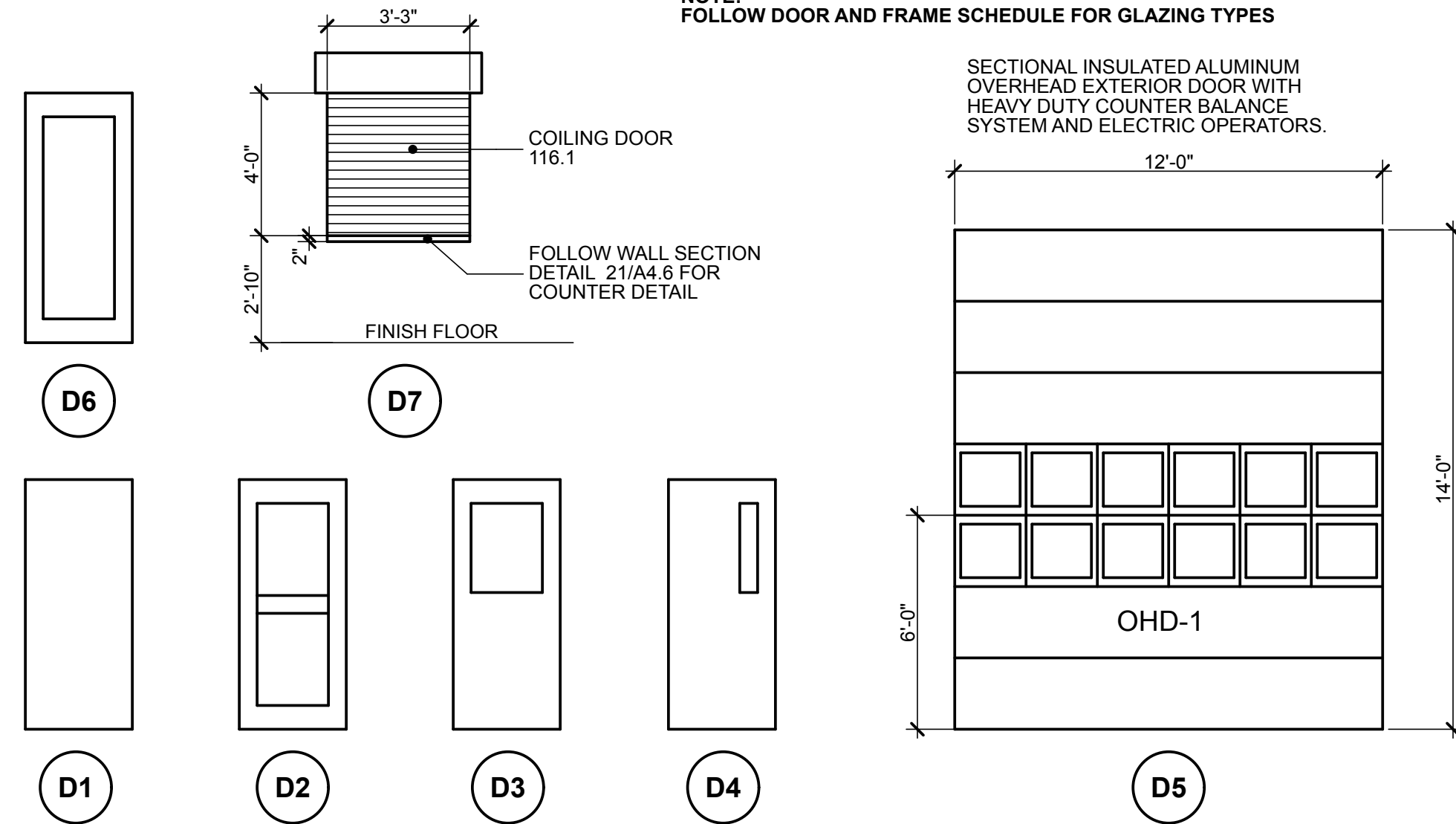


TYP. FRAME DETAIL @ WALL NTS **06**

DOOR TYPES 1/4" = 1'-0" **B**

NOTE: FOLLOW DOOR SCHEDULE FOR GLAZING TYPES

NOTE: FOLLOW DOOR AND FRAME SCHEDULE FOR GLAZING TYPES



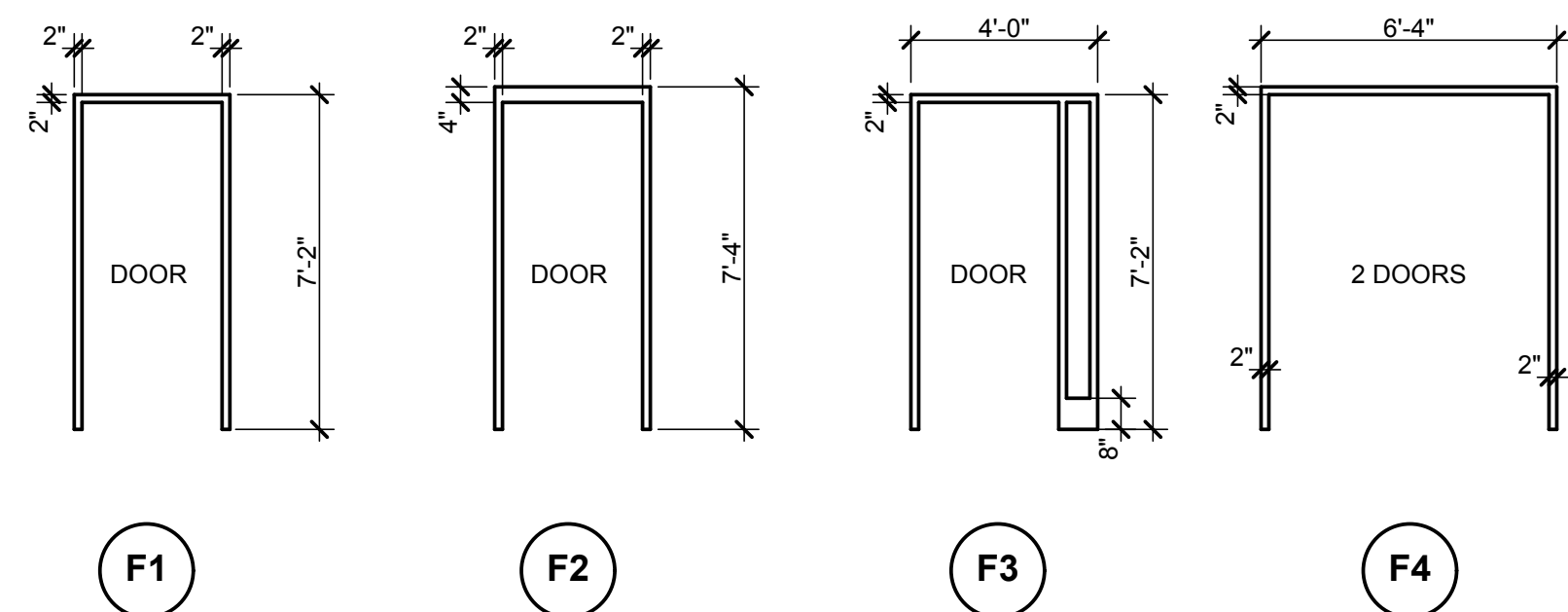
TRANSACTIONWINDOW W-4 DTL. 1 1/2" = 1'-0" **01**

GLAZING TYPES:
 G1: 1" THICK INSULATED GLAZING, EACH LITE 1/4" THICK FULLY TEMPERED SAFETY GLAZING WITH ARGON AND GREY TINT GLAZING TO MATCH GLASS IN ALUMINUM STOREFRONT
 G2: 1/4" CLEAR, FULLY TEMPERED SAFETY GLASS
 G4: TWO LAYERS OF 1/4" THICK TEMPERED SAFETY GLASS WITH .090-INCH THICK LAMINATED INTERLAYER

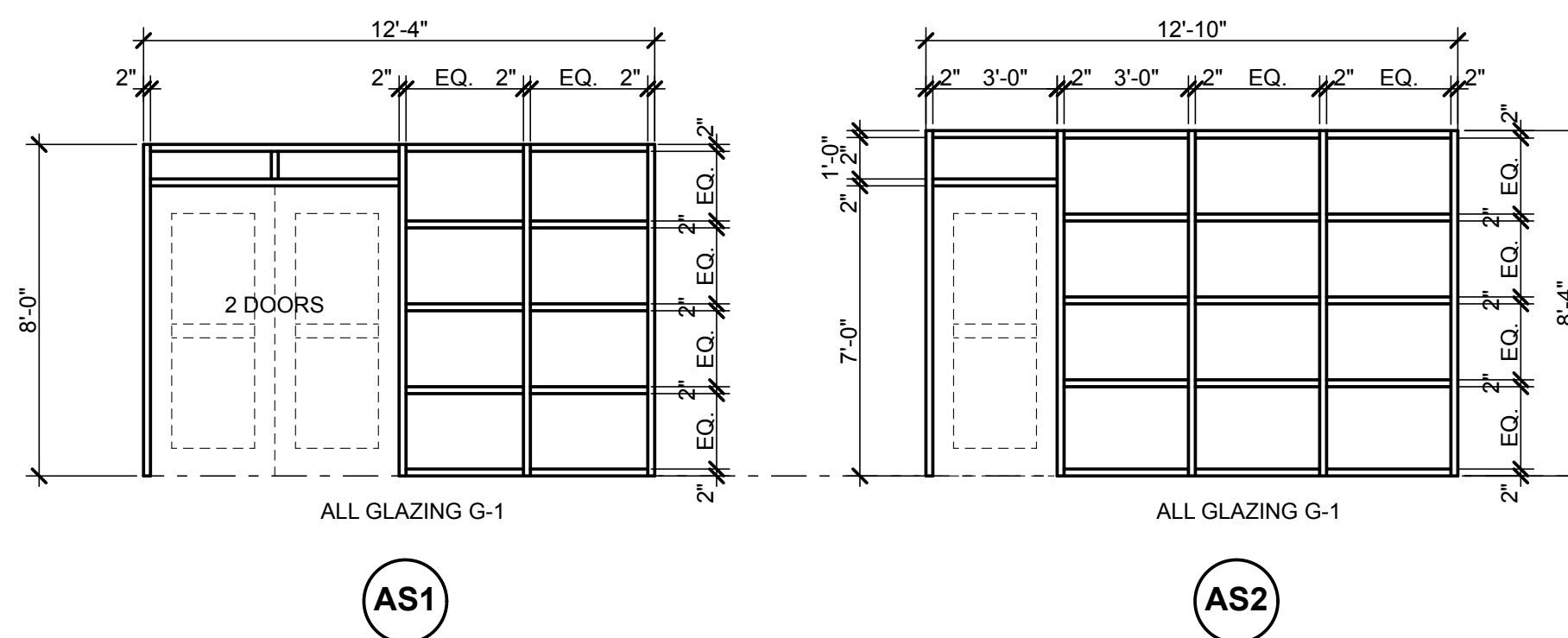
FRAME TYPES 1/4" = 1'-0" **C**

NOTE: FOLLOW SPECIFICATIONS FOR GLAZING SCHEDULE FOR ALUMINUM ENTRANCE AND STOREFRONTS

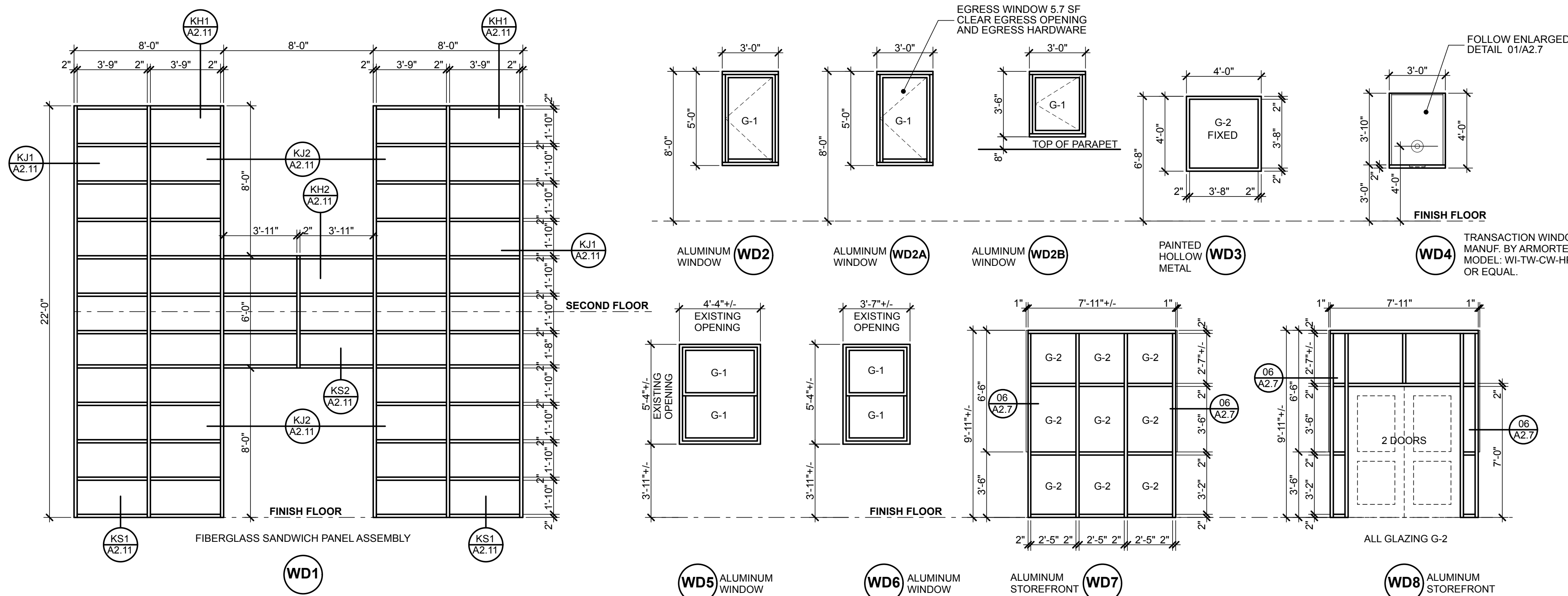
NOTE: FOLLOW DOOR AND FRAME SCHEDULE FOR GLAZING TYPES



ALUMINUM AND ENTRANCE STOREFRONT 1/4" = 1'-0" **E**



WINDOW TYPES 1/4" = 1'-0" **D**



TYPICAL DOOR HEAD/JAMB DTLs SCALE: 3/4" = 1'-0" **07**

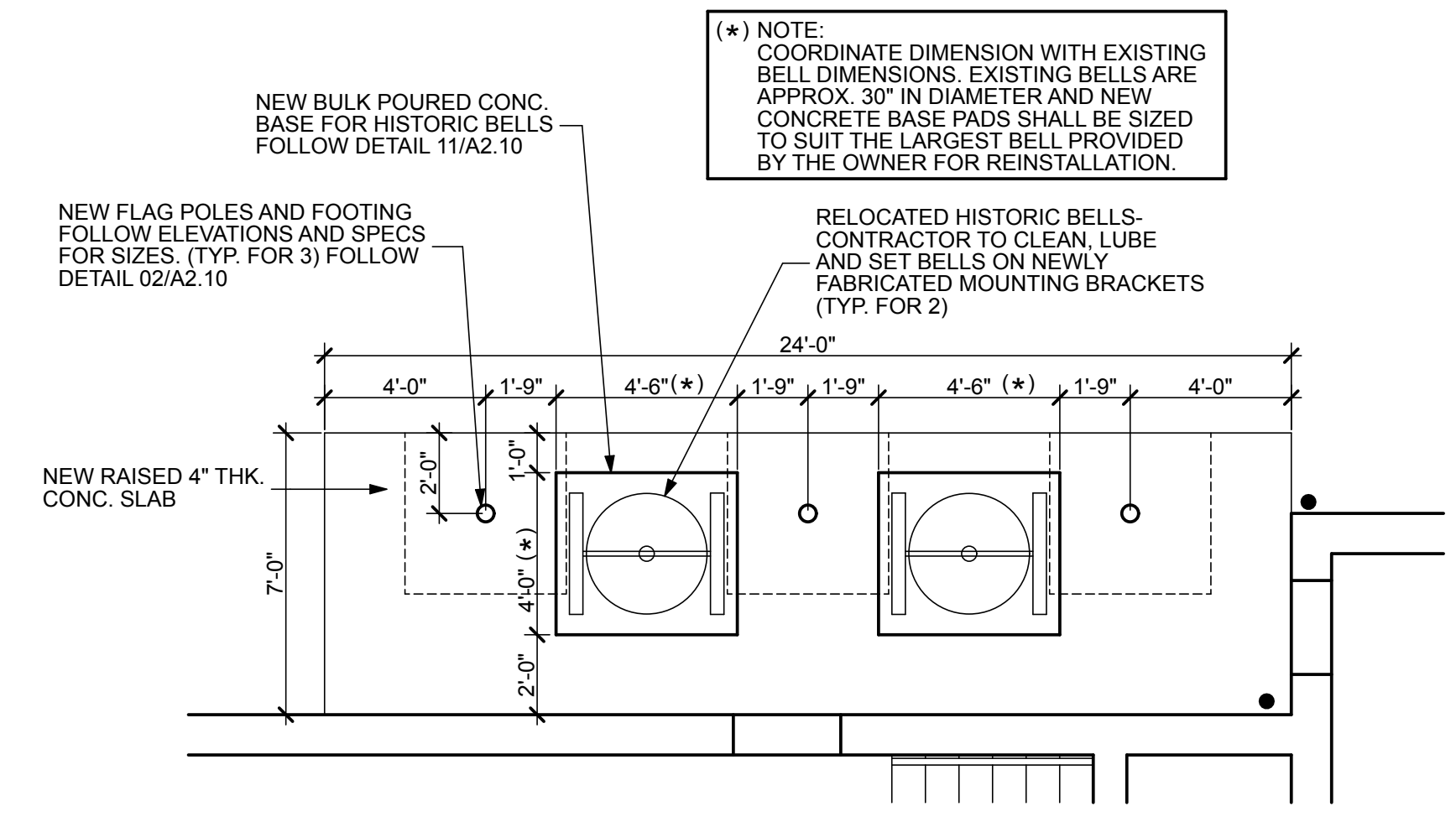
NOTES:
 1. CONT. SEALANT @ ALL SIDES OF FRAMES & ADJ. WALL CONST. (TYP.)
 2. ALL PHM FRAMES @ CMU WALLS SHALL BE GROUTED SOLID. (TYP.)
 3. REFER TO WALL TYPES FOR ADDITIONAL INFORMATION. (TYP.)

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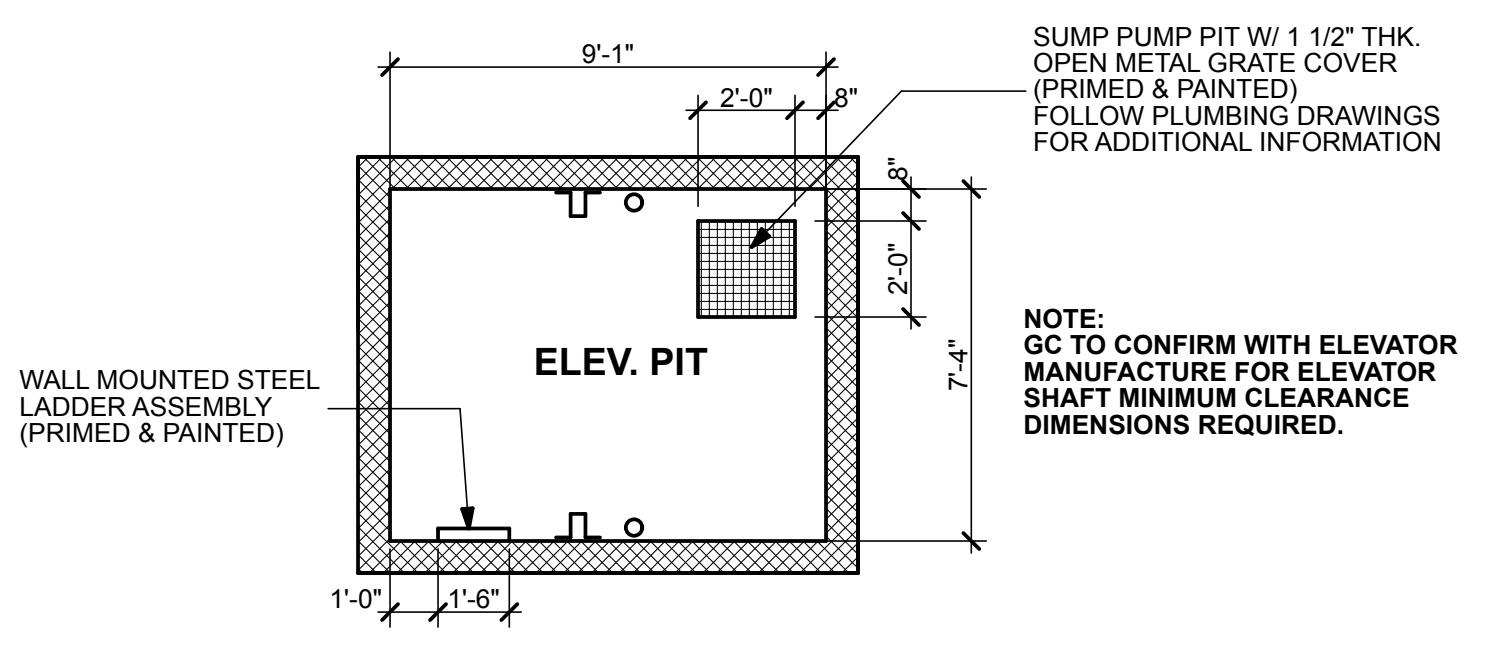
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 17 PINE STREET
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 TITLE: **DOOR- WINDOW TYPES & DETAILS**

DRAWING DATE:
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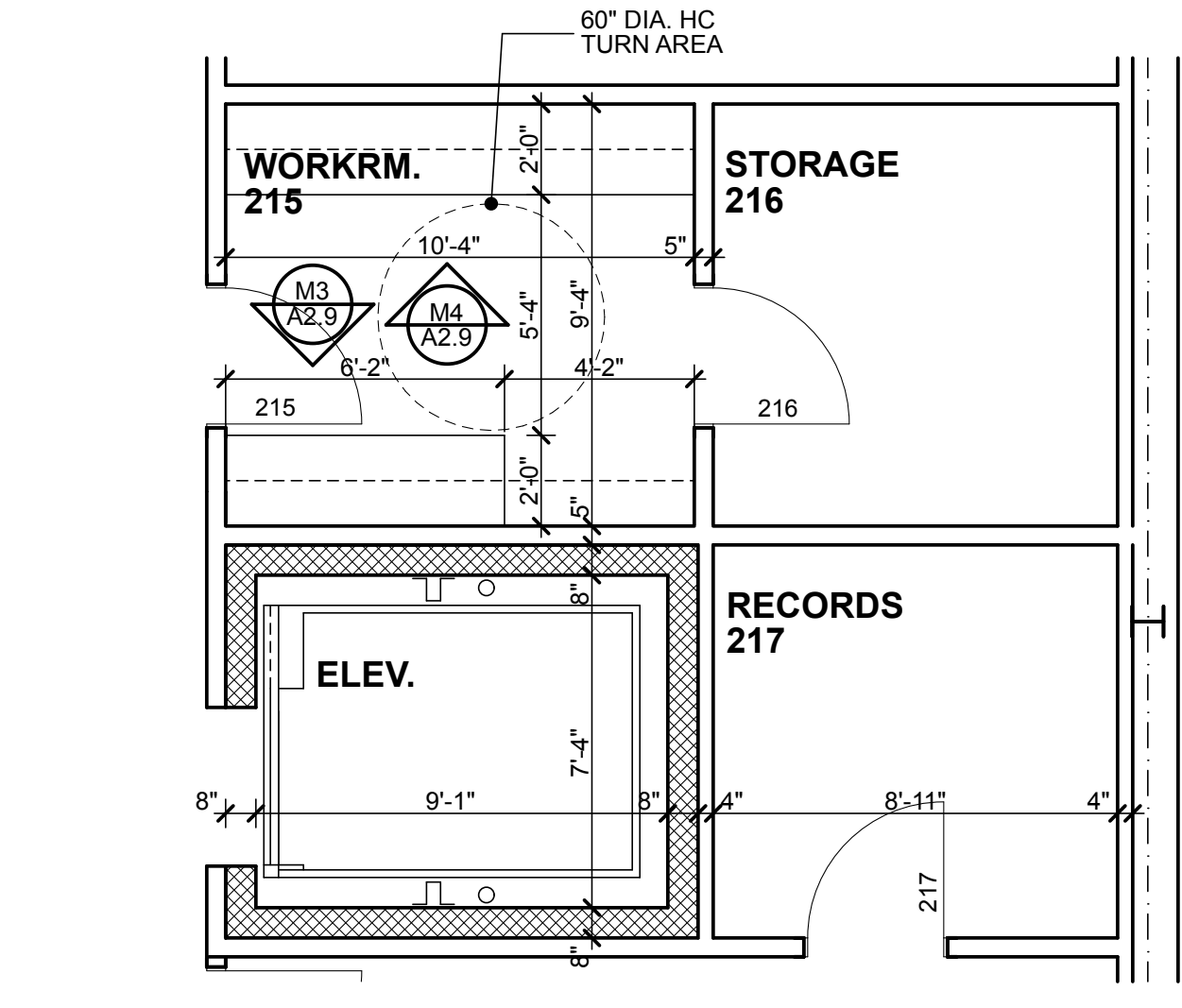
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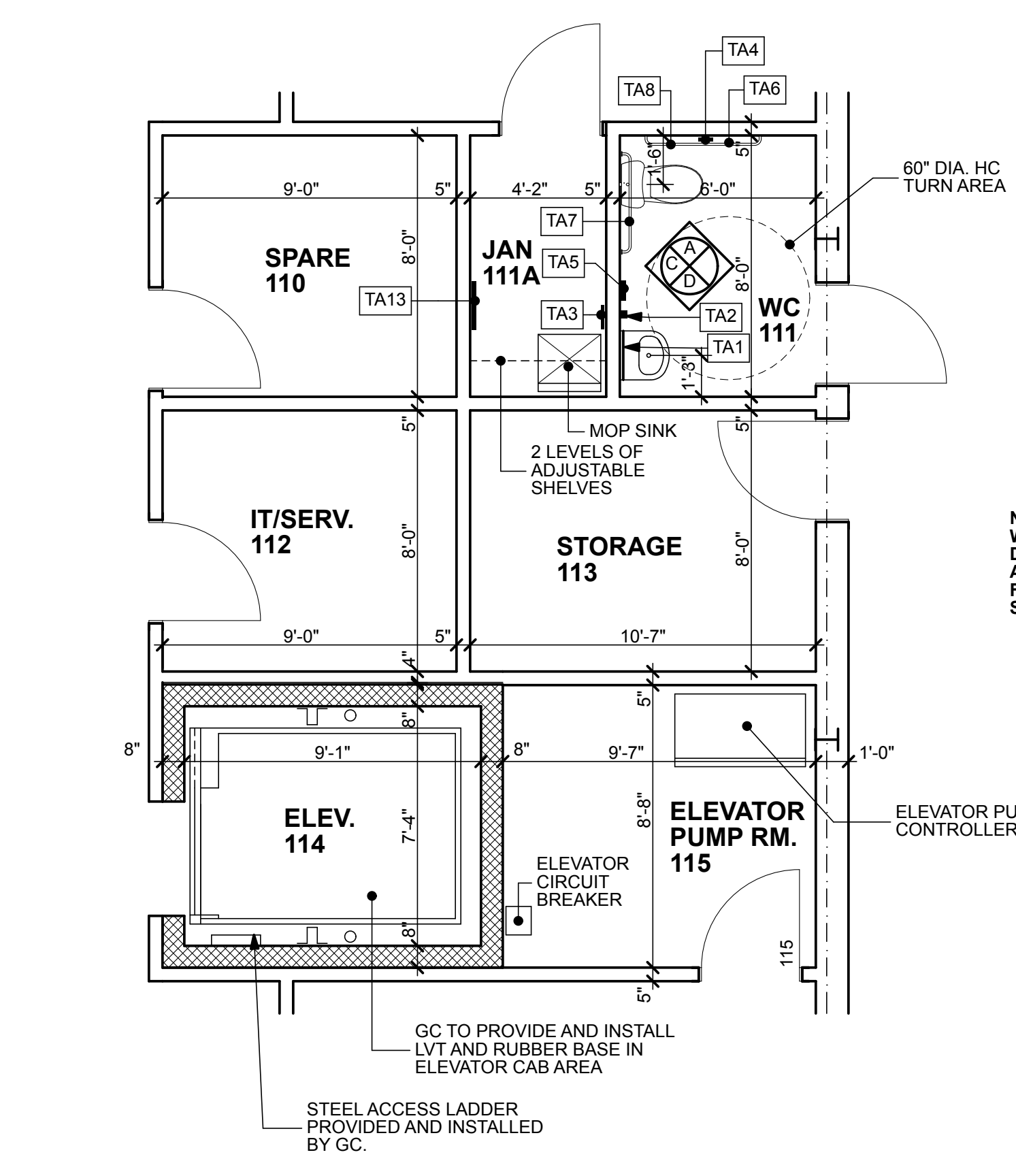
ENLARGED PLAN 1/4" = 1'-0" EP04



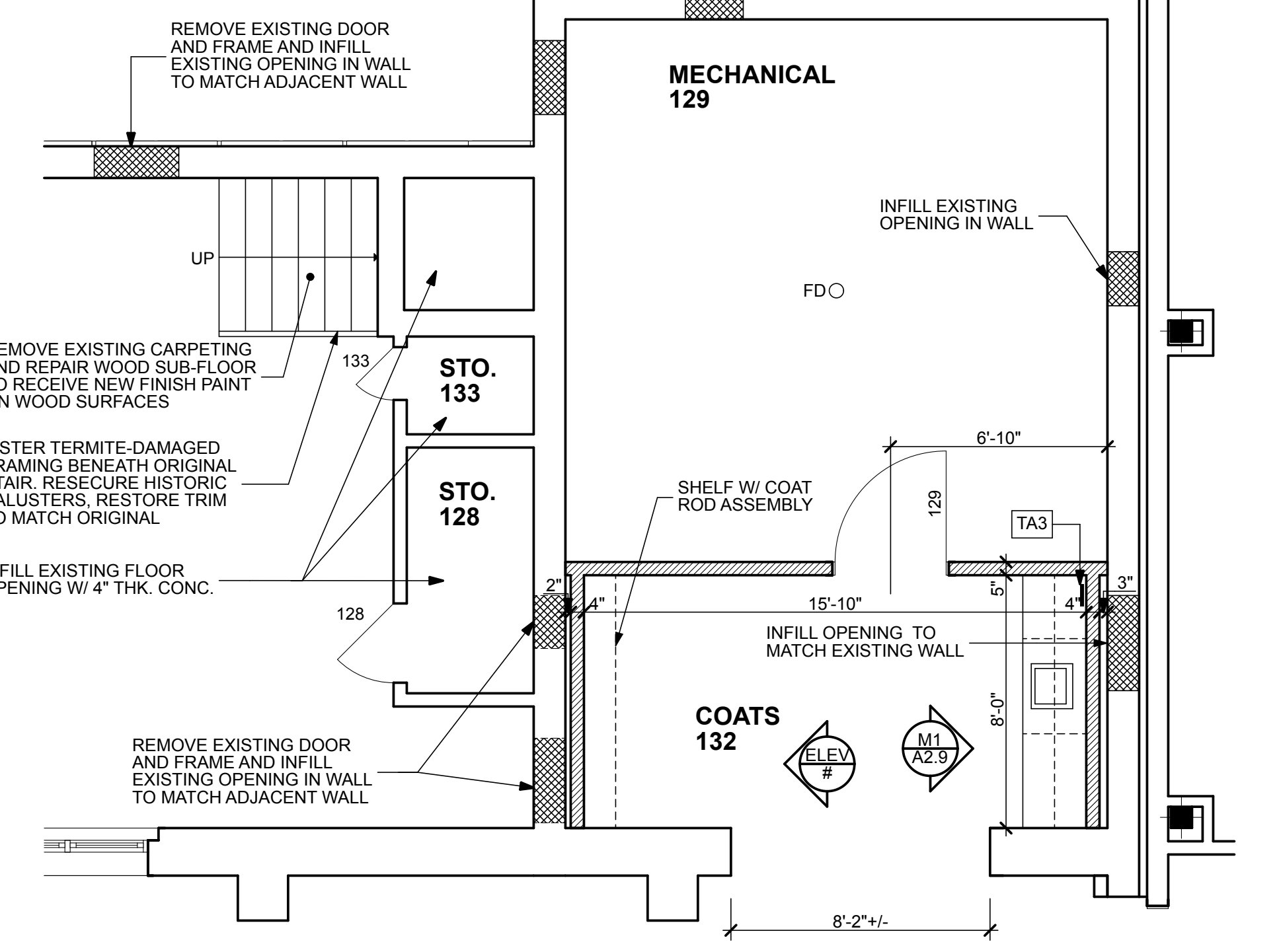
ENLARGED PLAN 1/4" = 1'-0" EP07



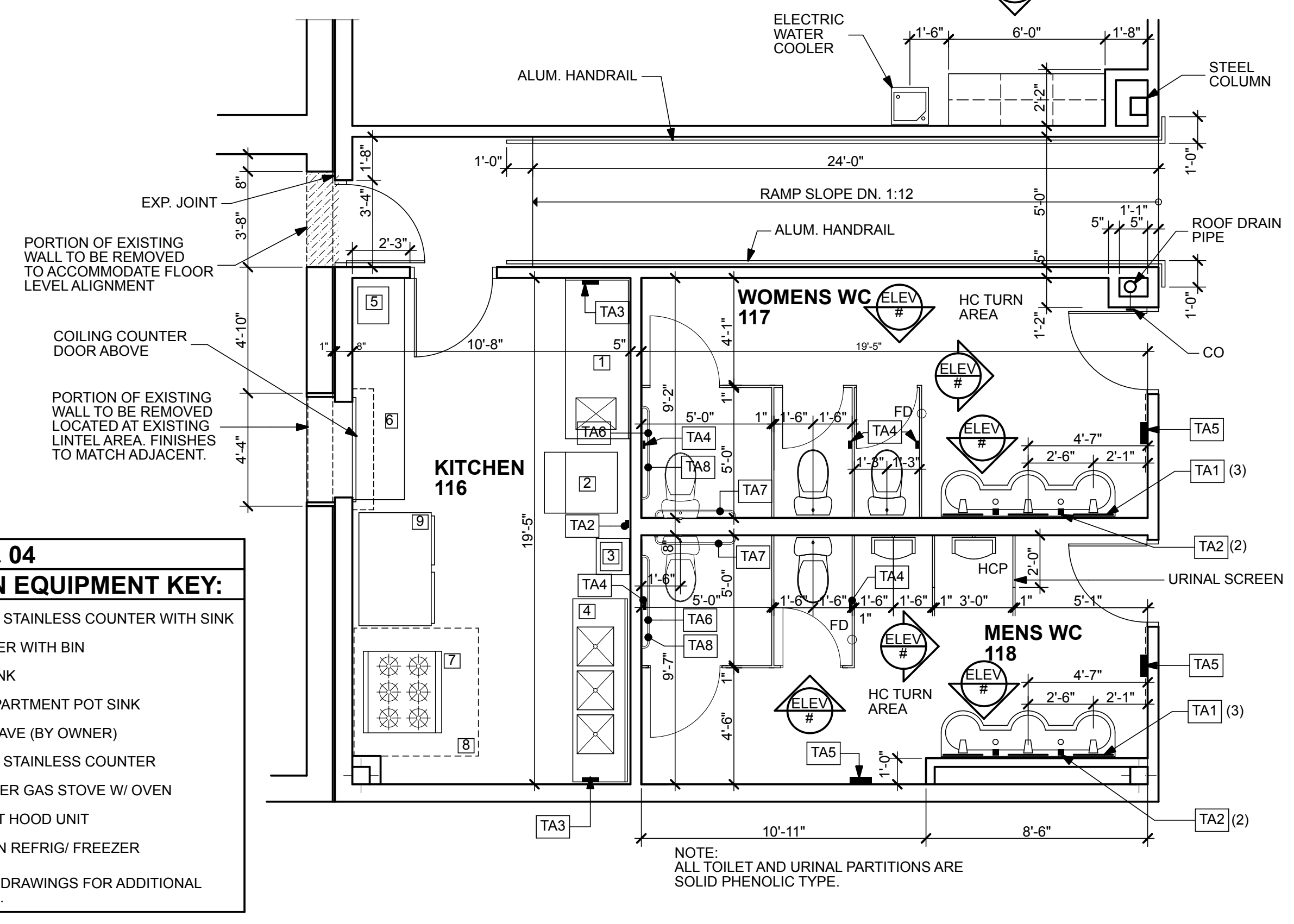
ENLARGED PLAN 1/4" = 1'-0" EP08



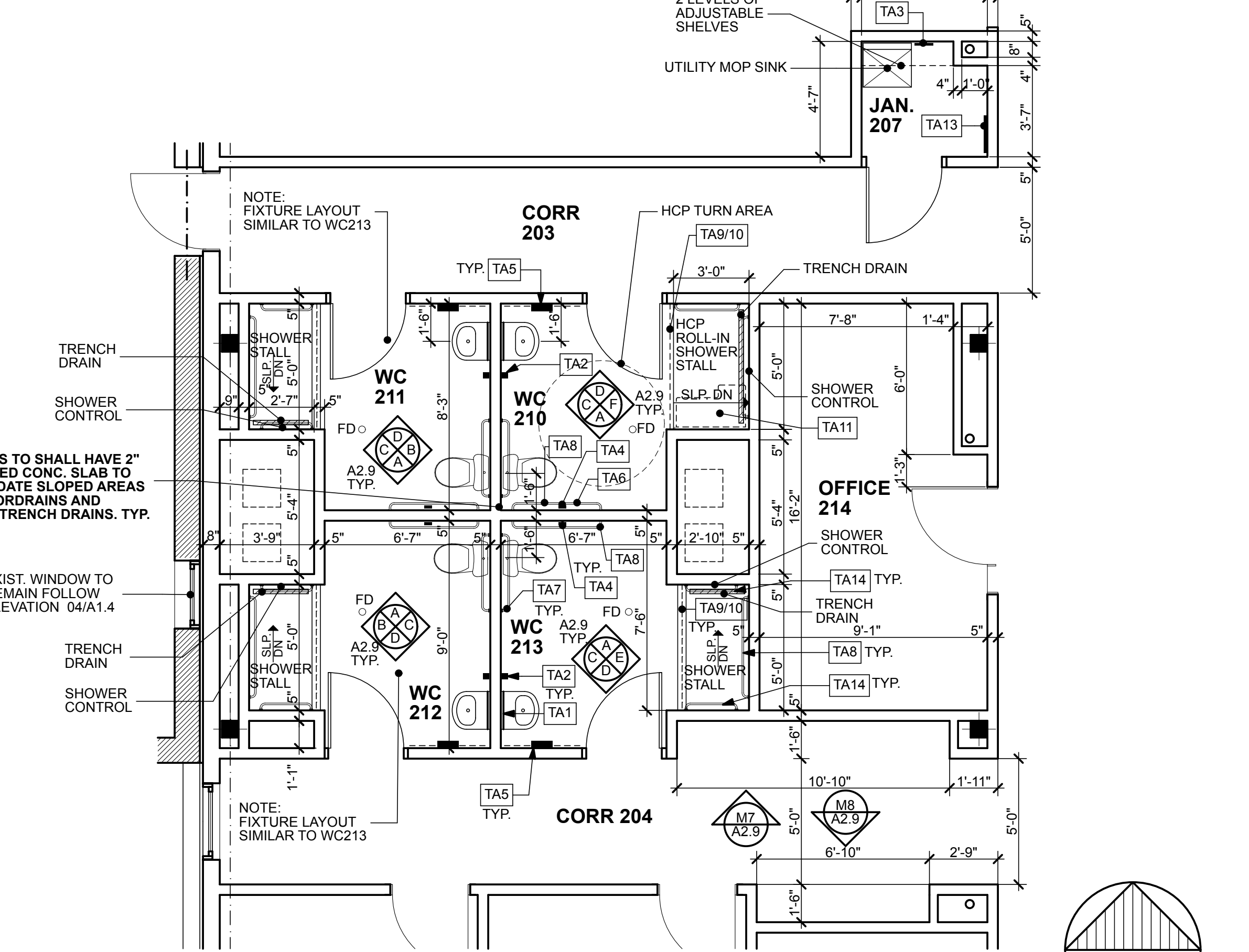
ENLARGED PLAN 1/4" = 1'-0" EP09



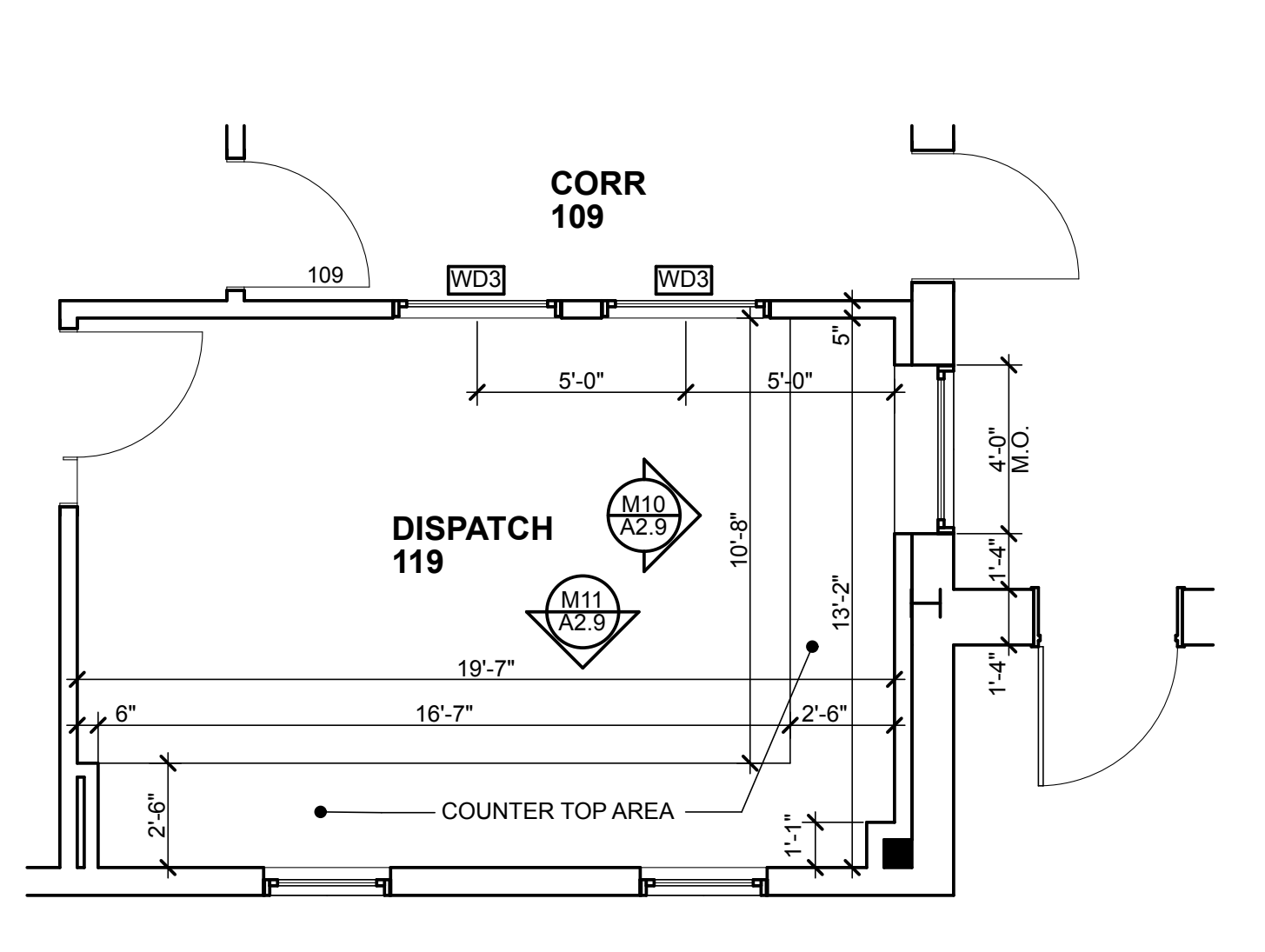
ENLARGED PLAN 1/4" = 1'-0" EP05



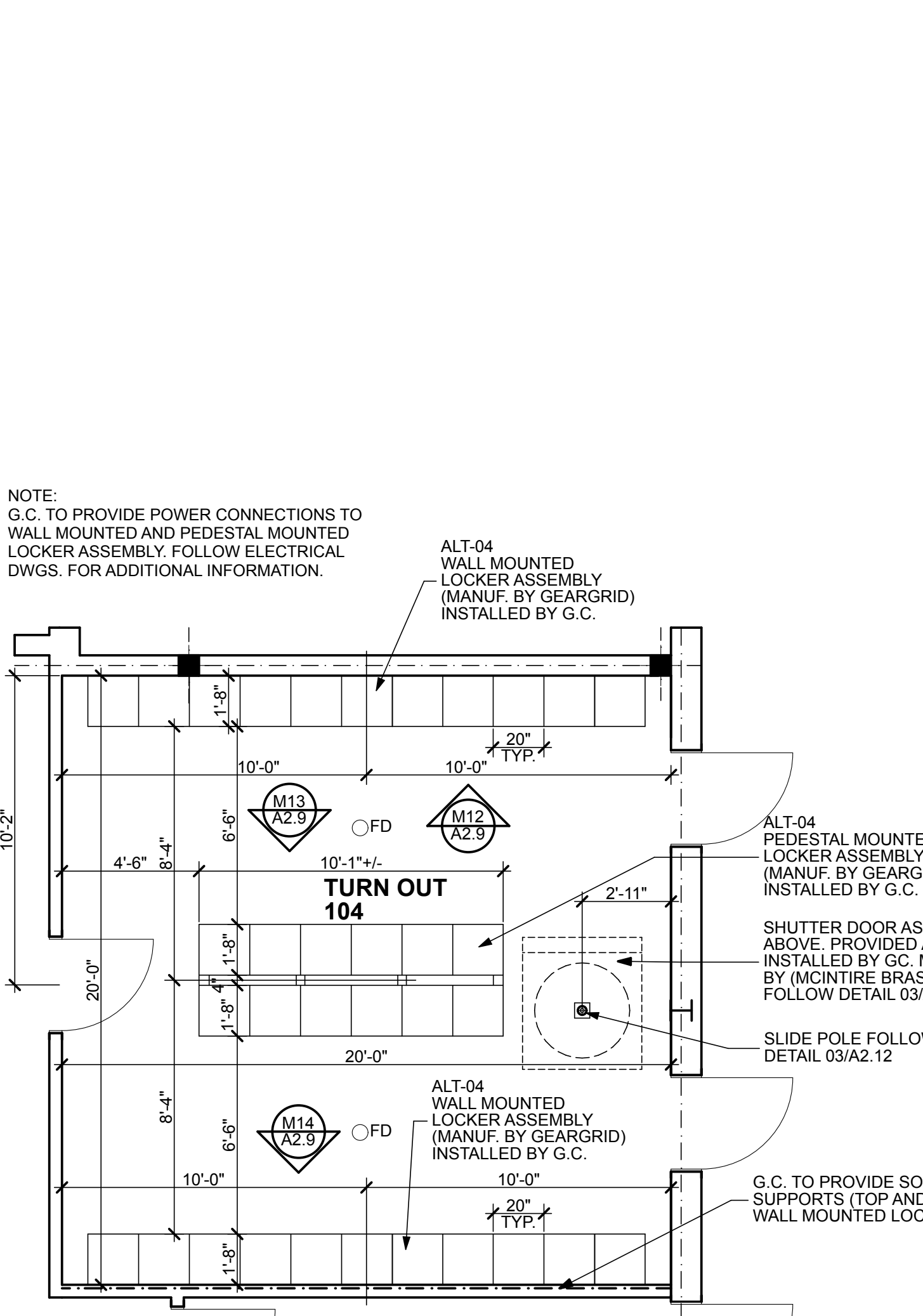
ENLARGED PLAN 1/4" = 1'-0" EP06



ENLARGED PLAN 1/4" = 1'-0" EP13



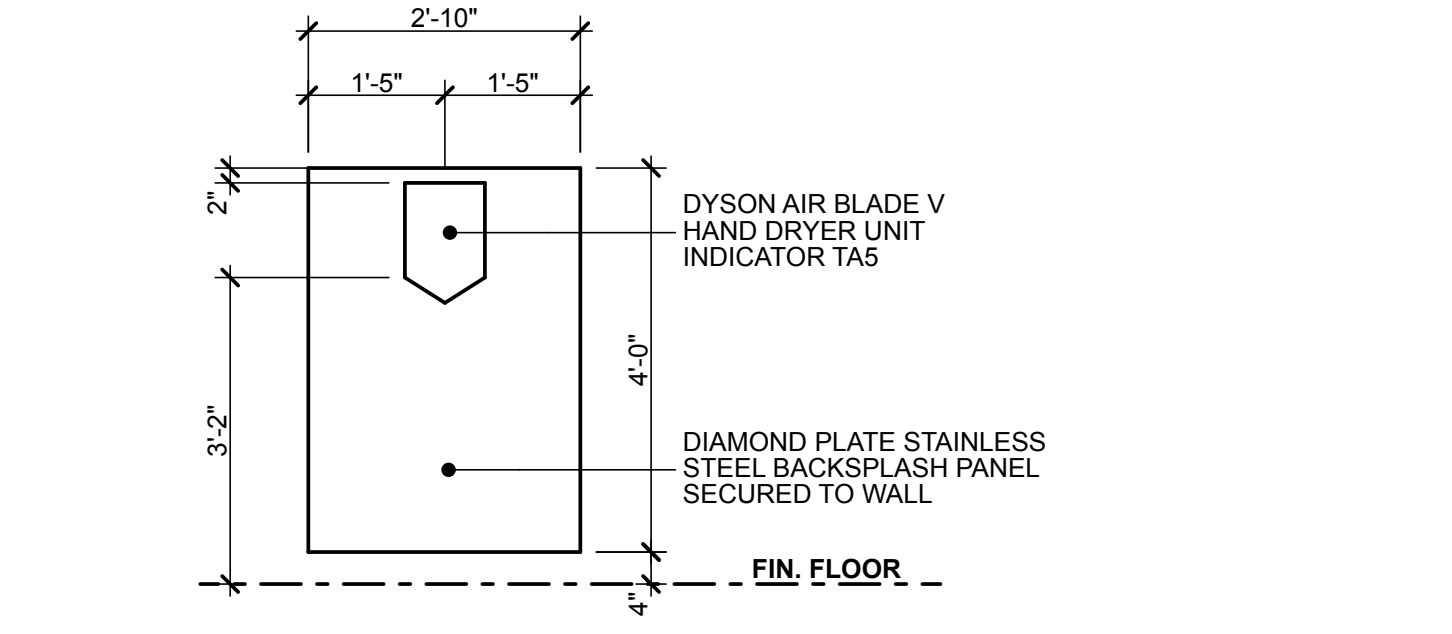
ENLARGED PLAN 1/4" = 1'-0" EP10



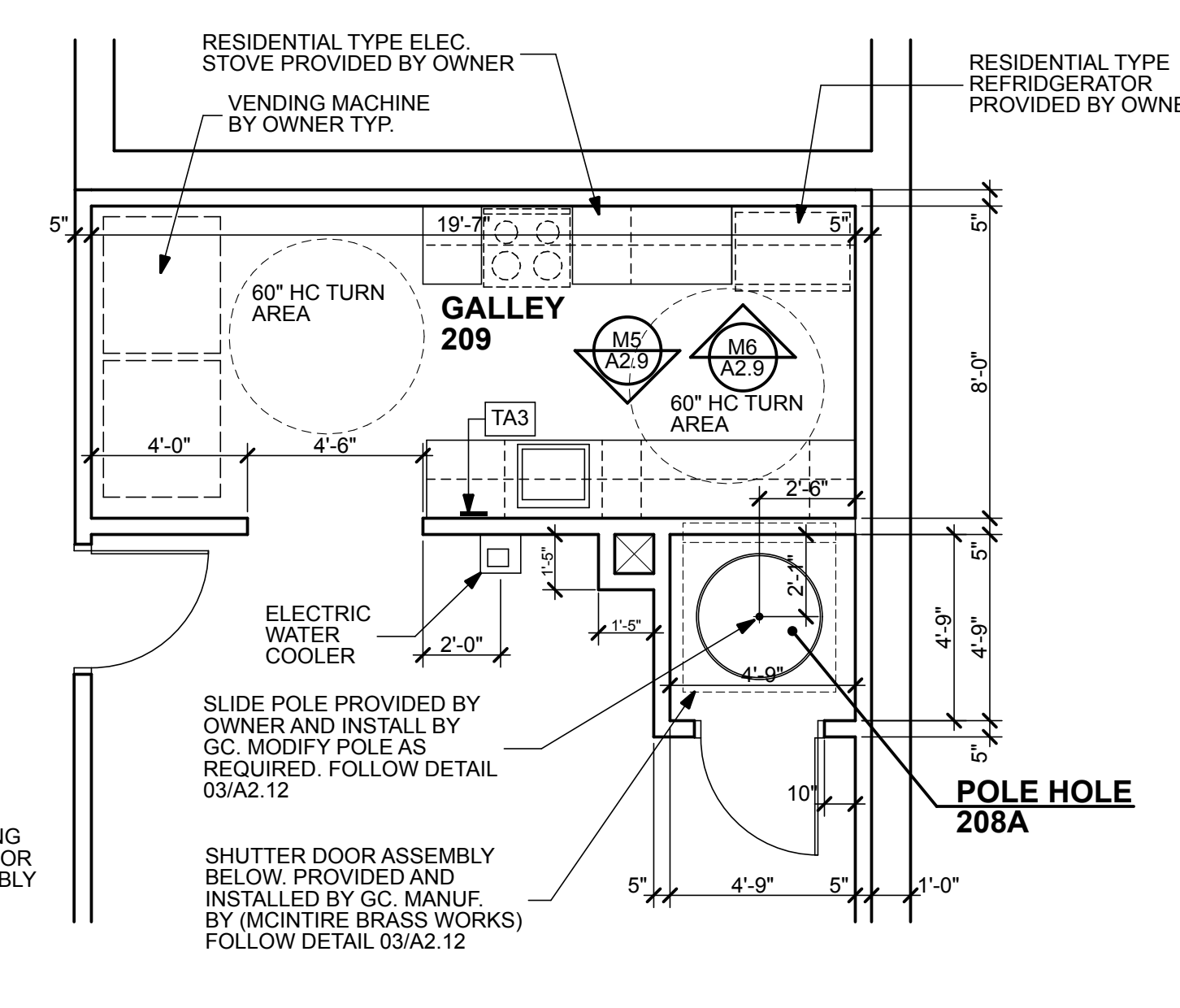
ENLARGED PLAN 1/4" = 1'-0" EP11

TOILET/ BATH ACCESSORY SCHEDULE		
SYM.	ITEM	MODEL-BASIS OF DESIGN
TA1	18"W X 30" MIRROR	BOBRICK B-165
TA2	AUTOMATIC SOAP DISPENSER	BOBRICK B-2012
TA3	SURFACE MOUNT PAPER TOWEL DISPENSER	BOBRICK B-2620
TA4	DOUBLE ROLL TOILET PAPER HOLDER	BOBRICK B-274
TA5	ELECTRIC HAND DRYER	DYSON AIR BLADE V
TA6	18" LONG VERT. GRAB BAR	BOBRICK B6806.99 X 18
TA7	36" LONG GRAB BAR	BOBRICK B6806.99 X 36
TA8	42" LONG GRAB BAR	BOBRICK B6806.99 X 42
TA9	SHOWER CURTAIN ROD	BOBRICK B-6047
TA10	SHOWER CURTAIN WITH HOOKS	BOBRICK-204 SERIES
TA11	FOLDING SHOWER SEAT	BOBRICK B-5181
TA12	SOAP DISH- RECESSED	BOBRICK B-4390
TA13	MOP AND BROOM HOLDER	BOBRICK B-239
TA14	24" LONG GRAB BAR	BOBRICK B6806.99 X 24

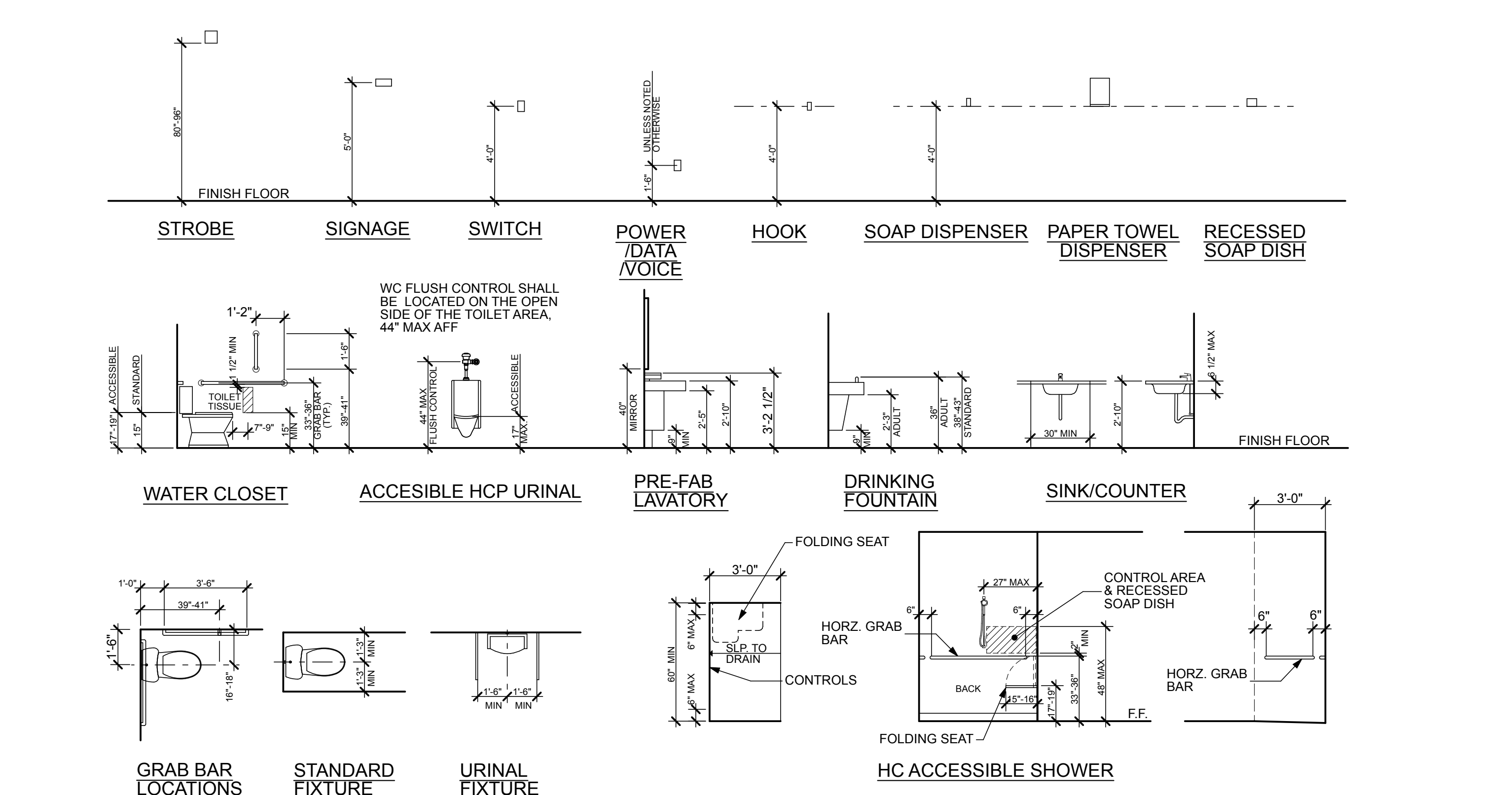
NOTES:
 1. GC TO PROVIDE IN WALL SOLID BLOCKING FOR ALL TOILET AND BATH ACCESSORIES (TYP).
 2. FOLLOW PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
 3. TOILET ACCESSORIES REQUIRED FOR ROOMS 211 AND 212 ARE THE SAME AS ROOMS 210 AND 213, BUT NOT SHOWN FOR CLARITY PURPOSE ONLY.



TYP. HAND DRYER DETAIL NTS 01 A2.8



ENLARGED PLAN 1/4" = 1'-0" EP12



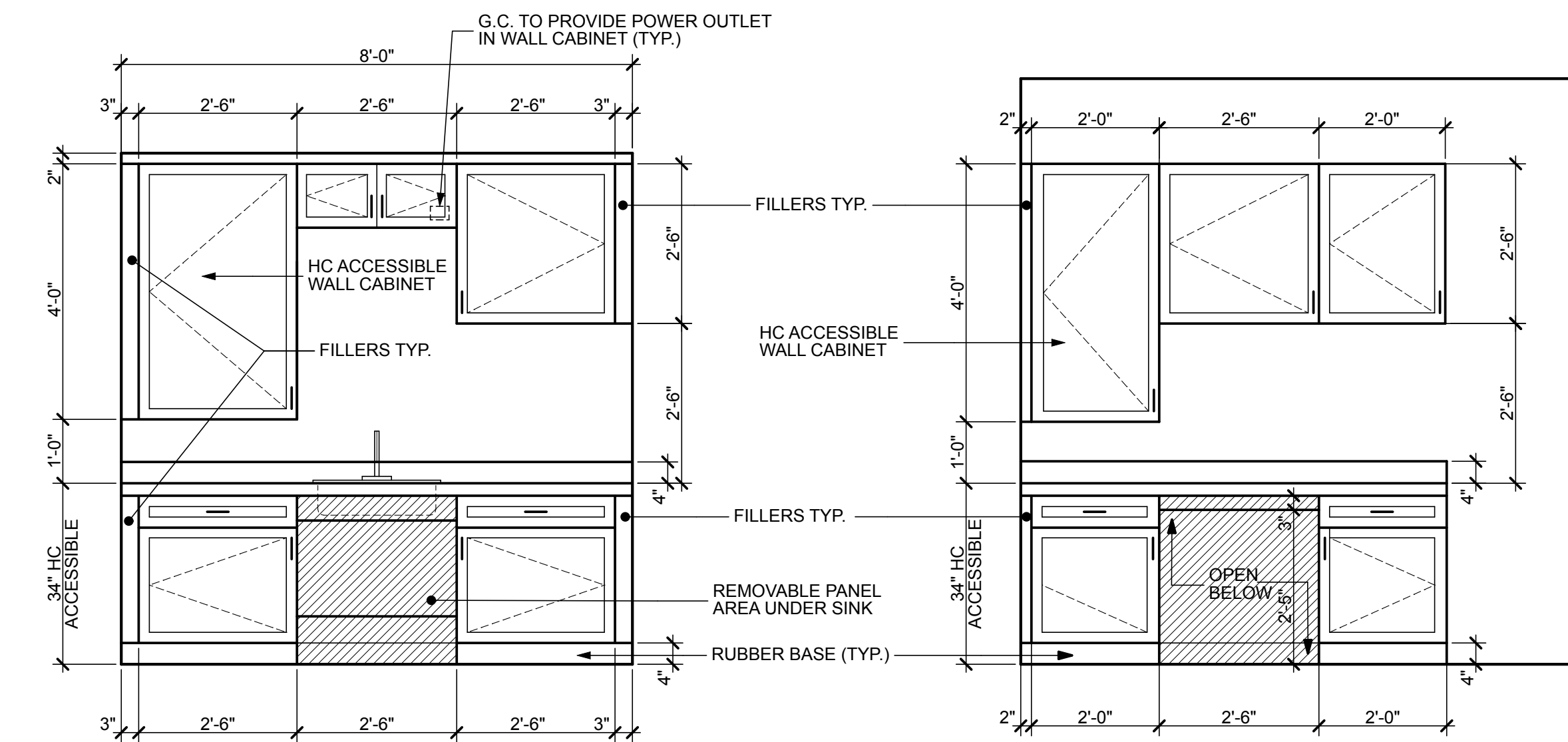
ACCESSIBLE FIXTURE & ACCESSORY DETAILS NTS

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RELIEF FIRE COMPANY NO. 1
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 BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY

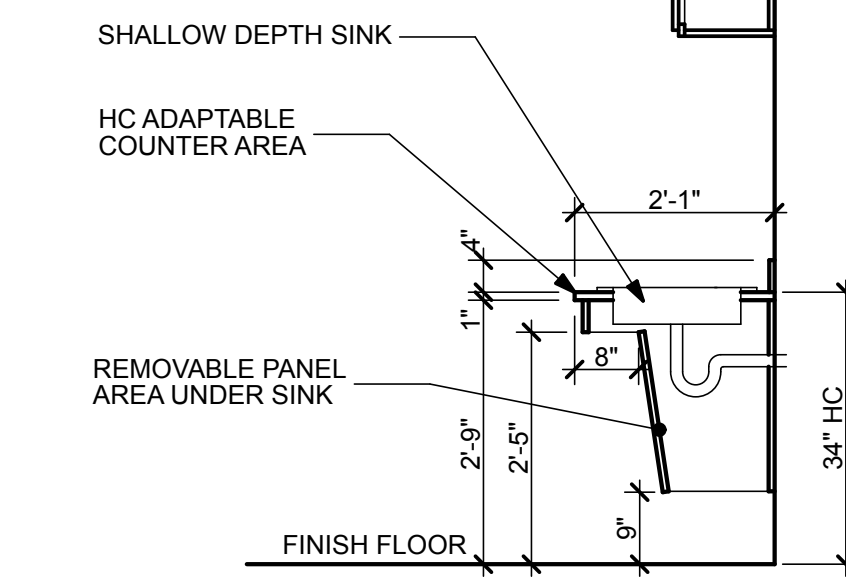
ENLARGED PLANS

DRAWING DATE:
 01 JULY 2020
 REVISION DATE:
 DRAWN BY:
 RR
 COMMISSION NO.:
 5475B



MILLWORK 1/2" = 1'-0" **M1**
COATS 132

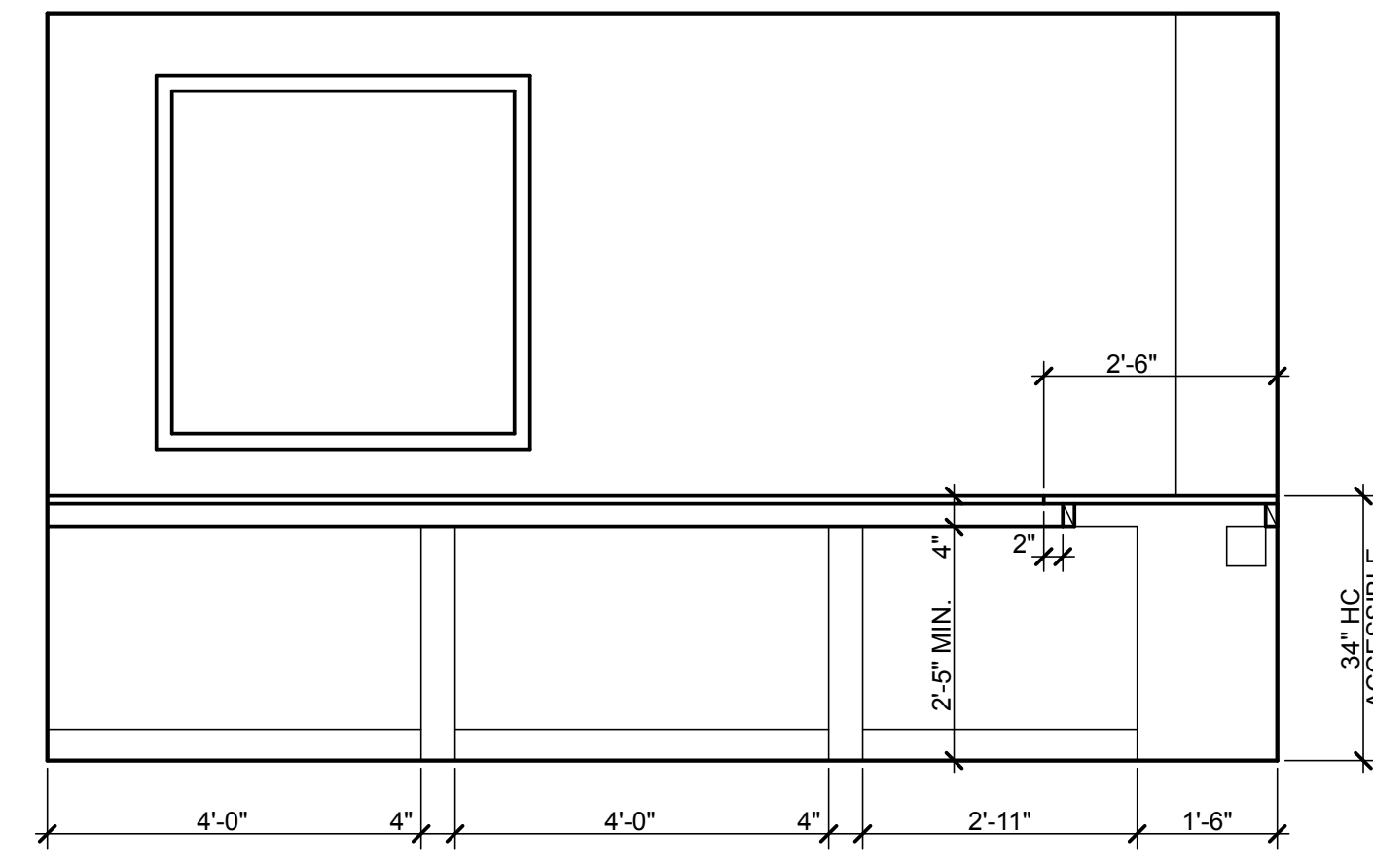
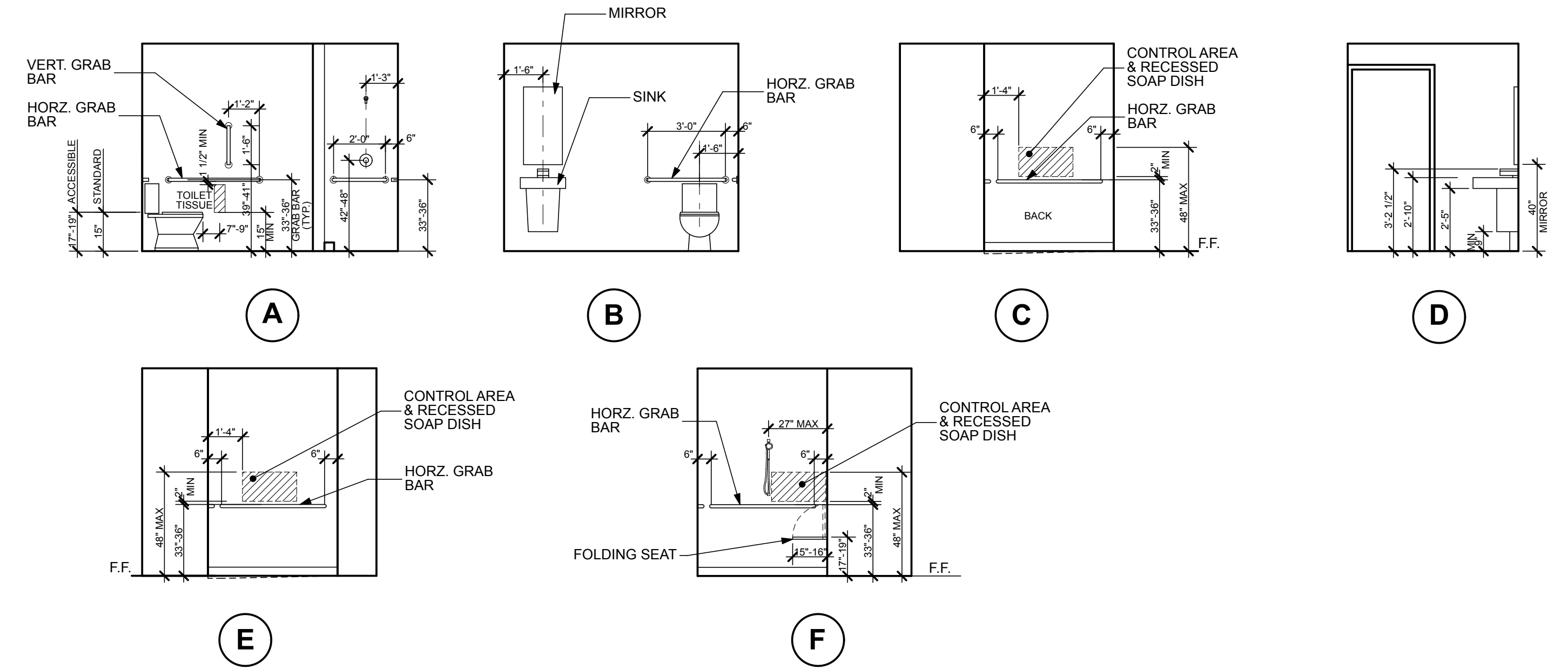
MILLWORK 1/2" = 1'-0" **M2**
TRAINING 105



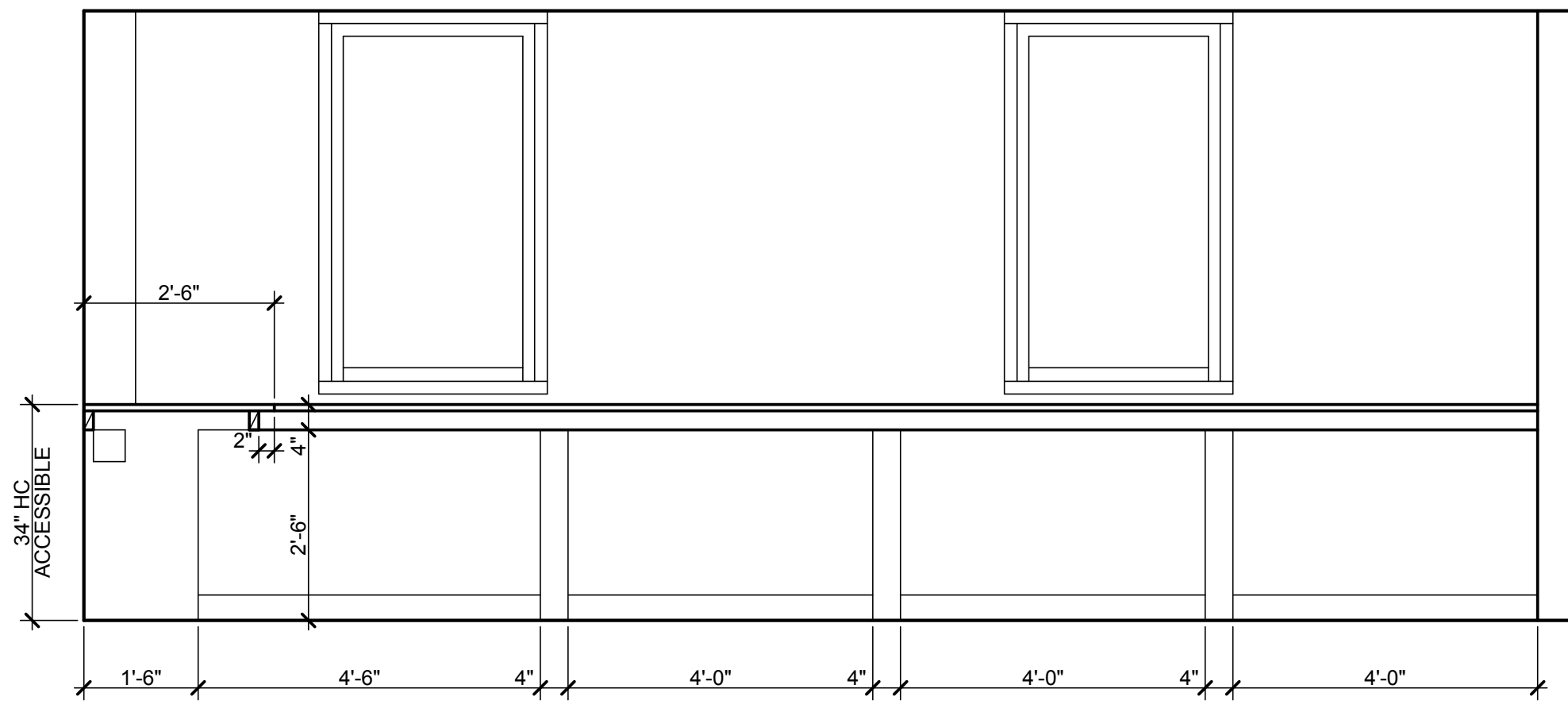
TYP. SINK MILLWORK 1/2" = 1'-0" **M9**

INTERIOR WC ELEVATIONS

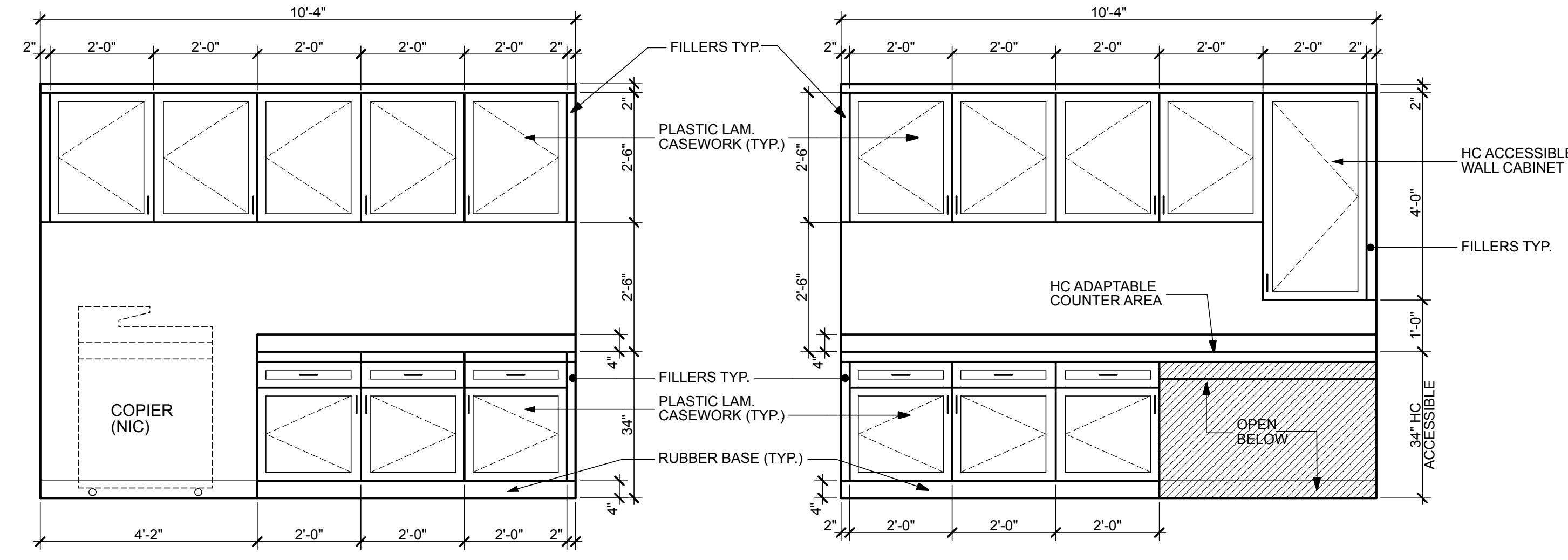
NTS



MILLWORK SCALE: 1/2" = 1'-0" **M10**
WORKROOM 119

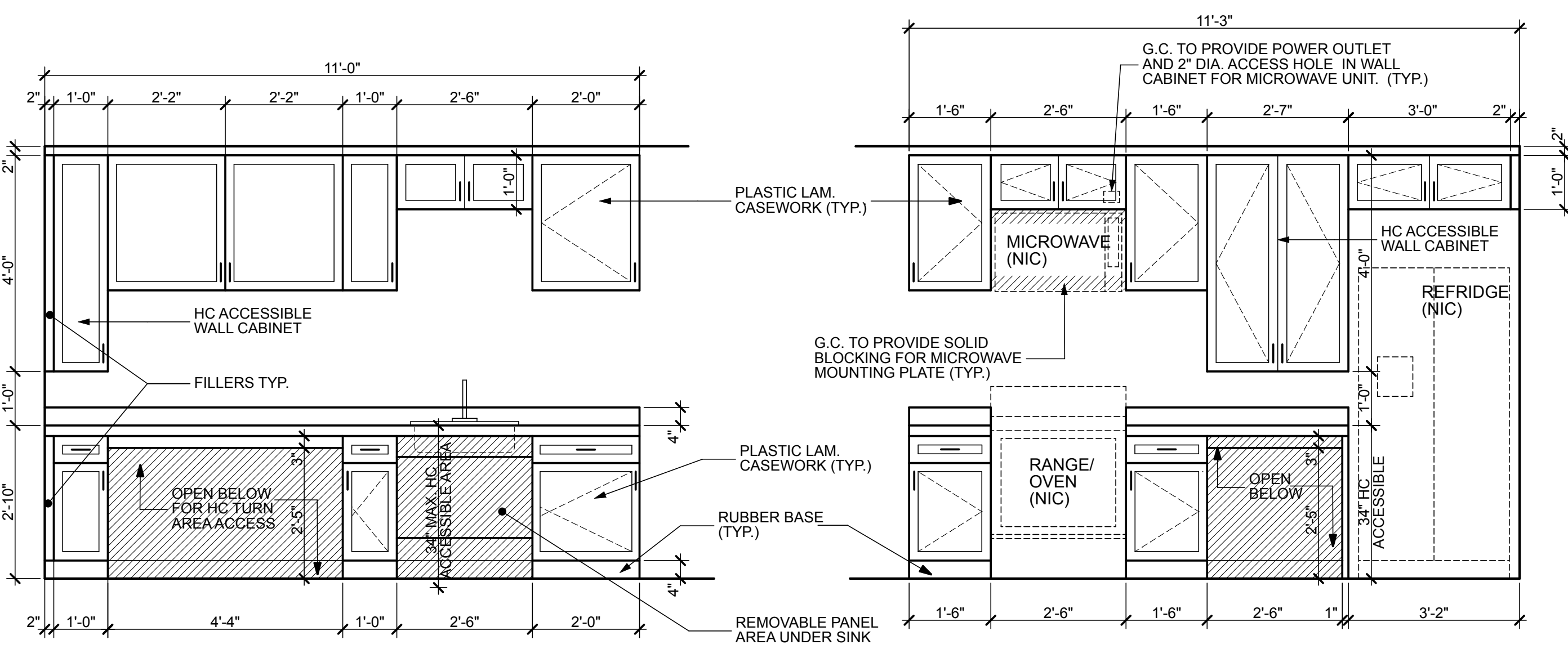


MILLWORK SCALE: 1/2" = 1'-0" **M11**
WORKROOM 119



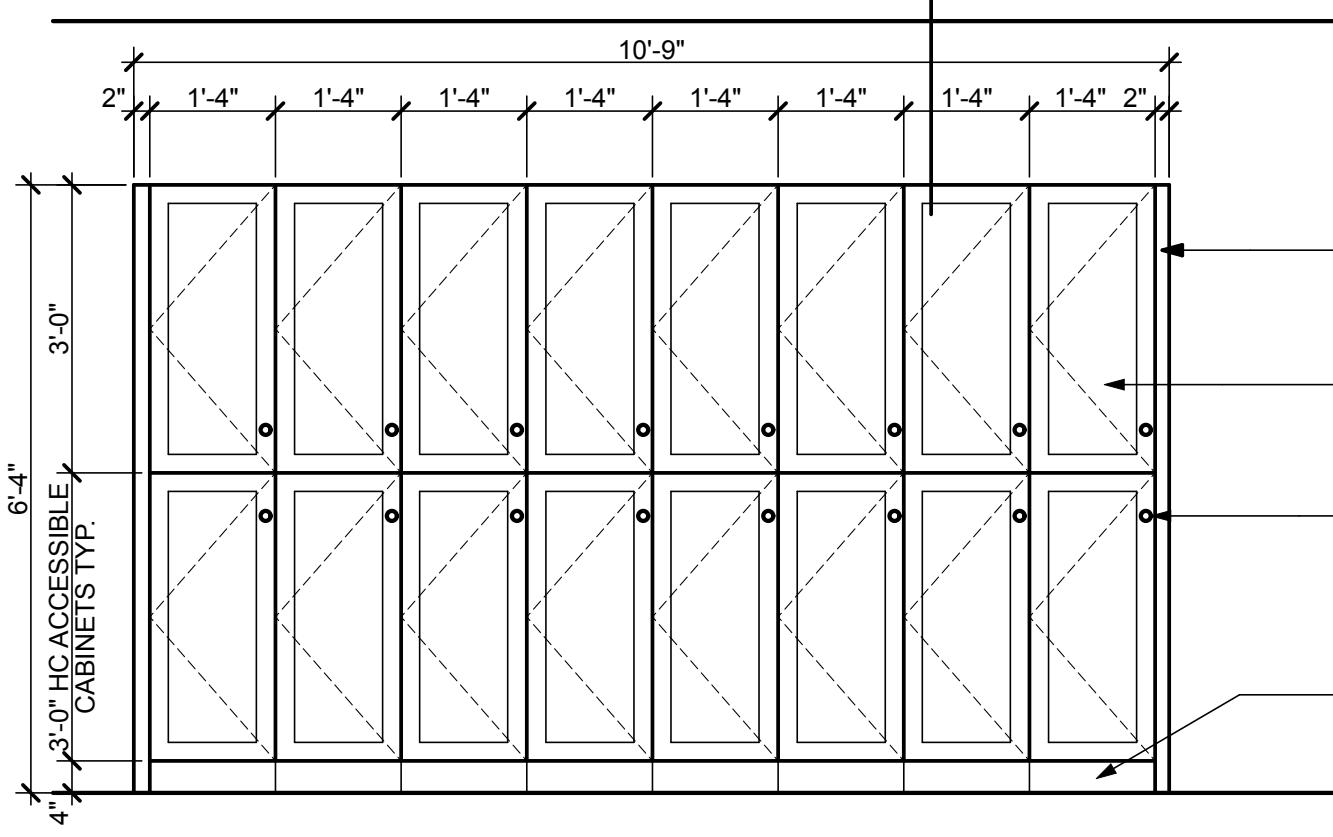
MILLWORK SCALE: 1/2" = 1'-0" **M3**
WORKROOM 215

MILLWORK SCALE: 1/2" = 1'-0" **M4**
WORKROOM 215

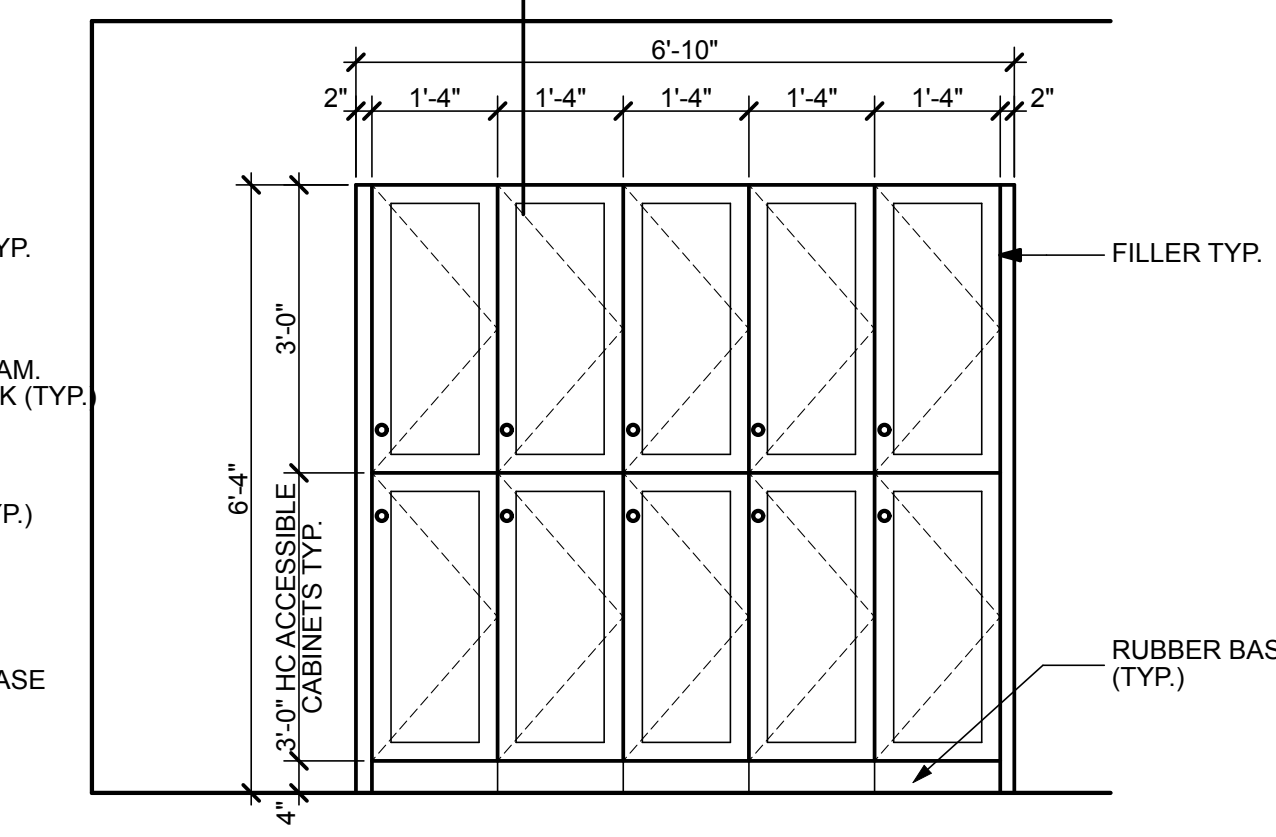


MILLWORK SCALE: 1/2" = 1'-0" **M5**
GALLEY 209

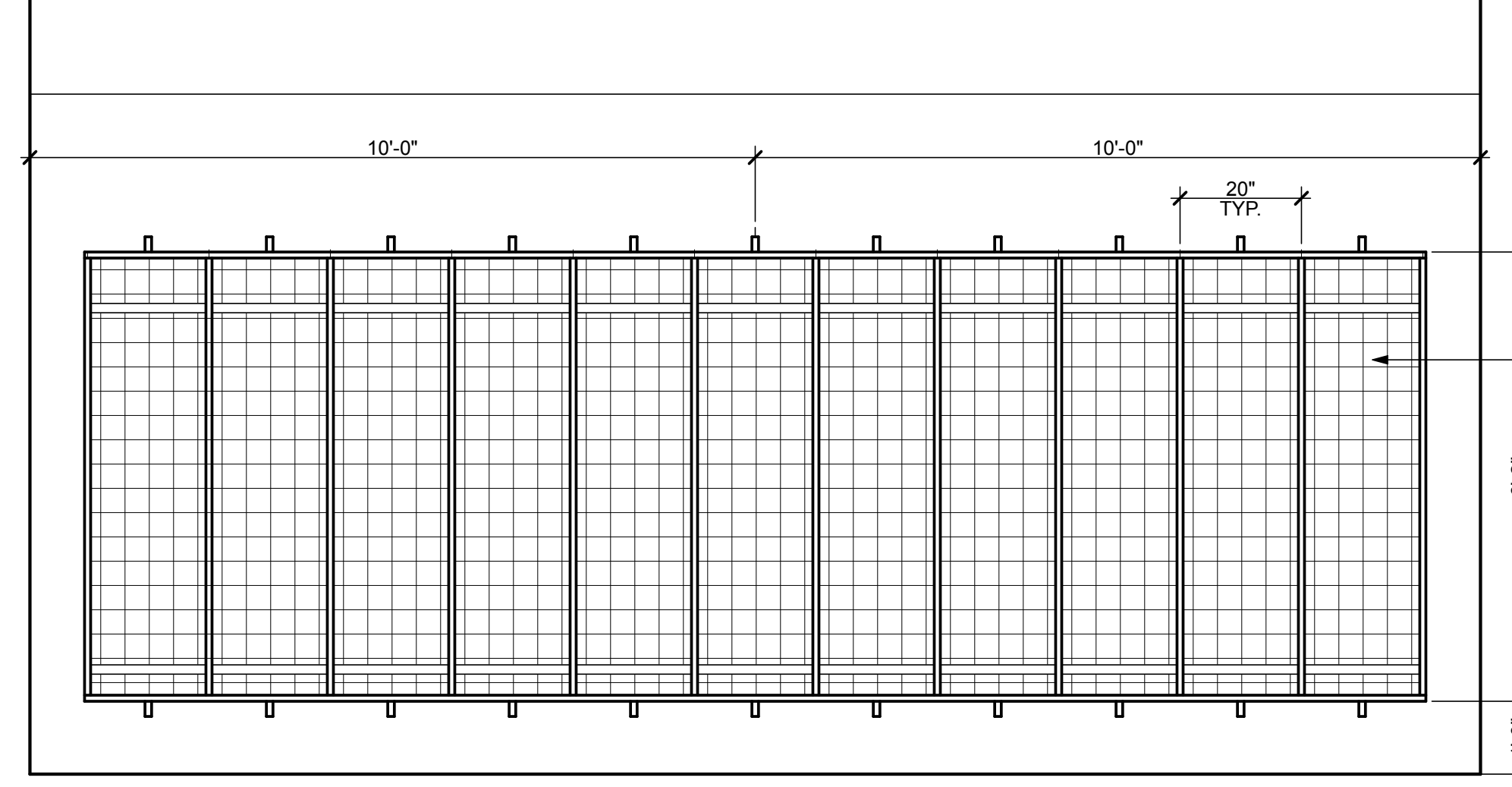
MILLWORK SCALE: 1/2" = 1'-0" **M6**
GALLEY 209



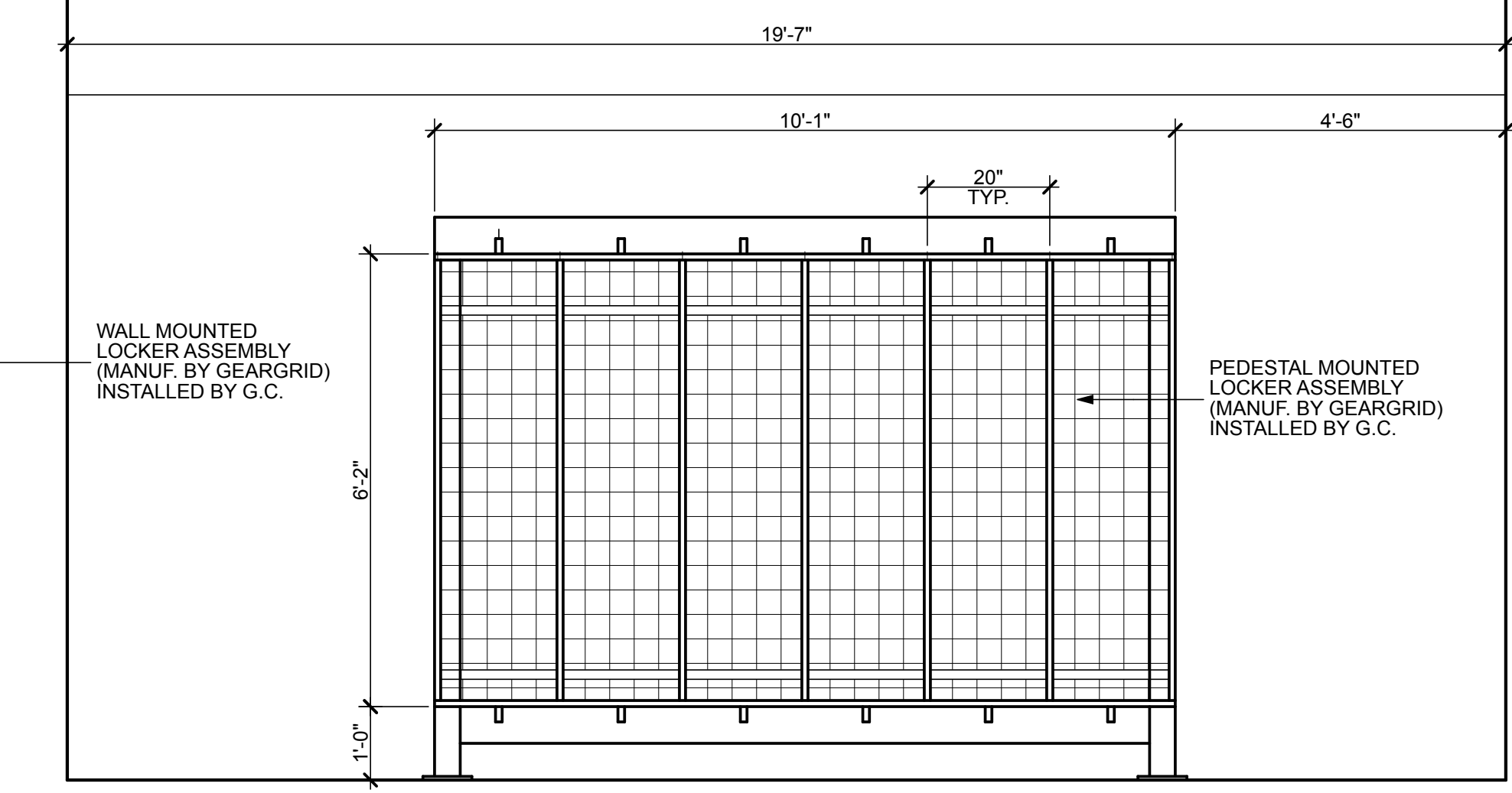
MILLWORK SCALE: 1/2" = 1'-0" **M7**
CORRIDOR 204



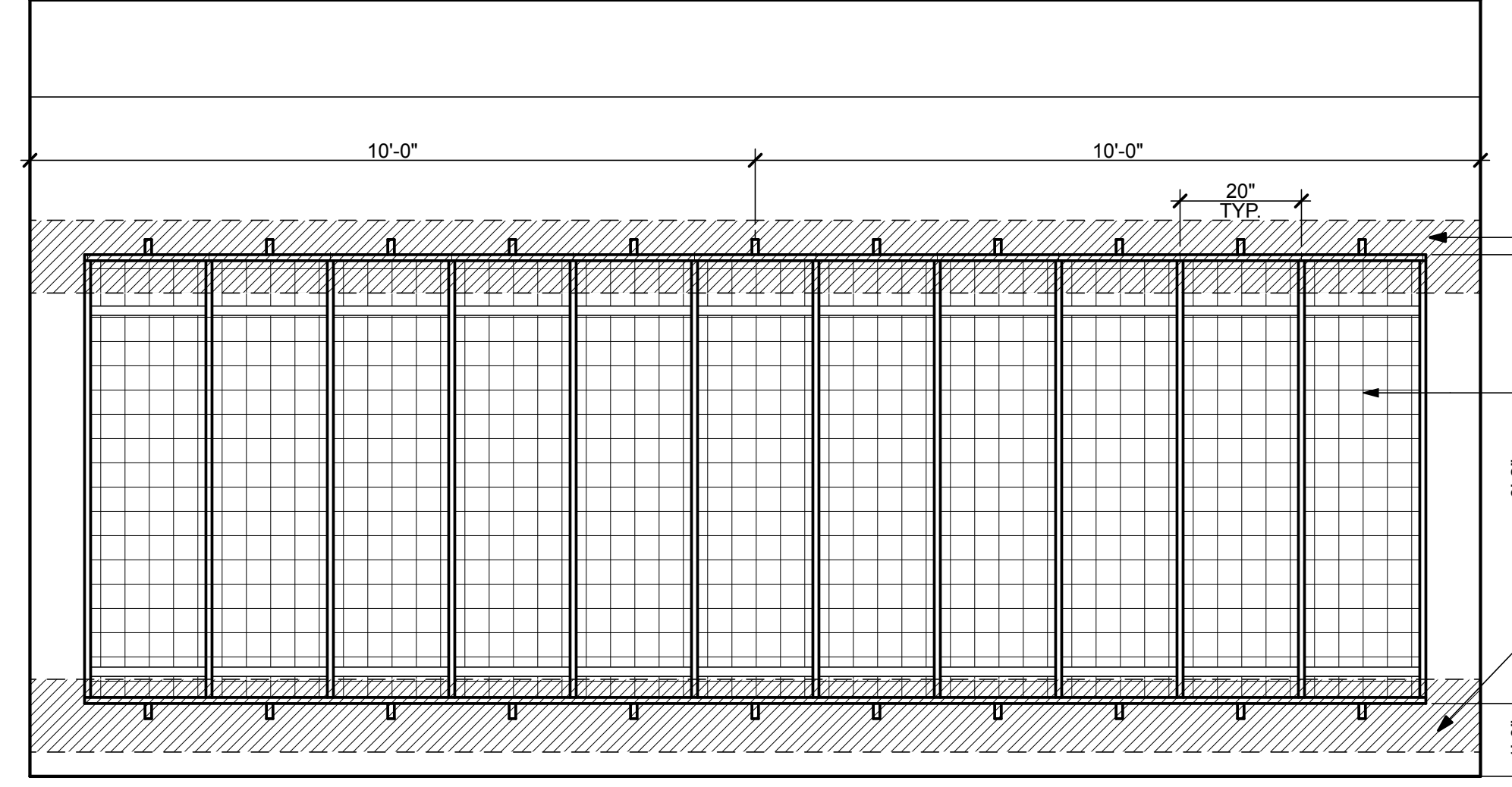
MILLWORK SCALE: 1/2" = 1'-0" **M8**
CORRIDOR 204



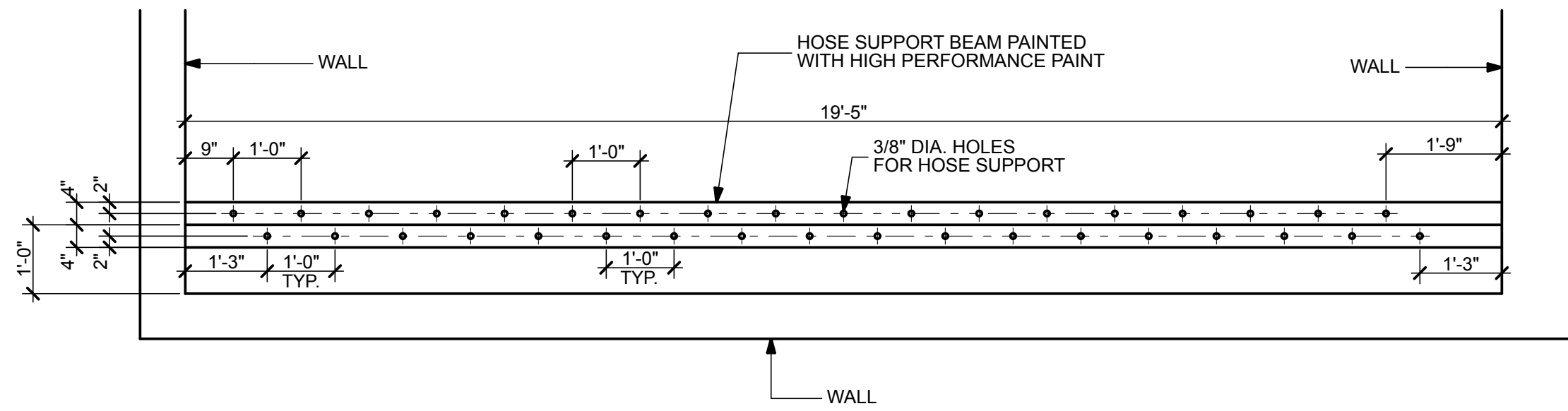
EQUIPMENT GEAR LOCKER ELEV. 1/2" = 1'-0" **M12**
TURN OUT 104 ALT-BID 05



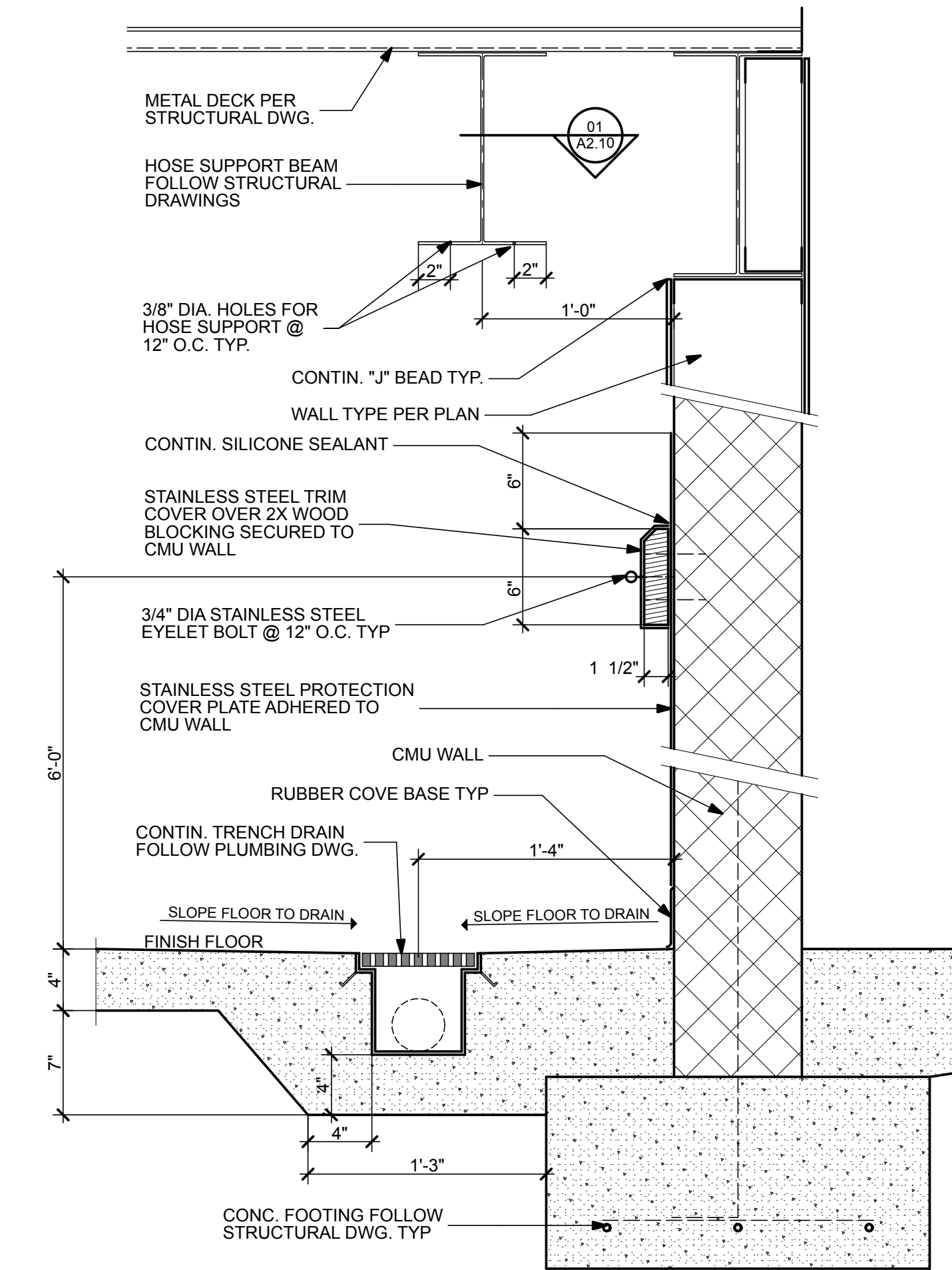
EQUIPMENT GEAR LOCKER ELEV. 1/2" = 1'-0" **M13**
TURN OUT 104 ALT-BID 05



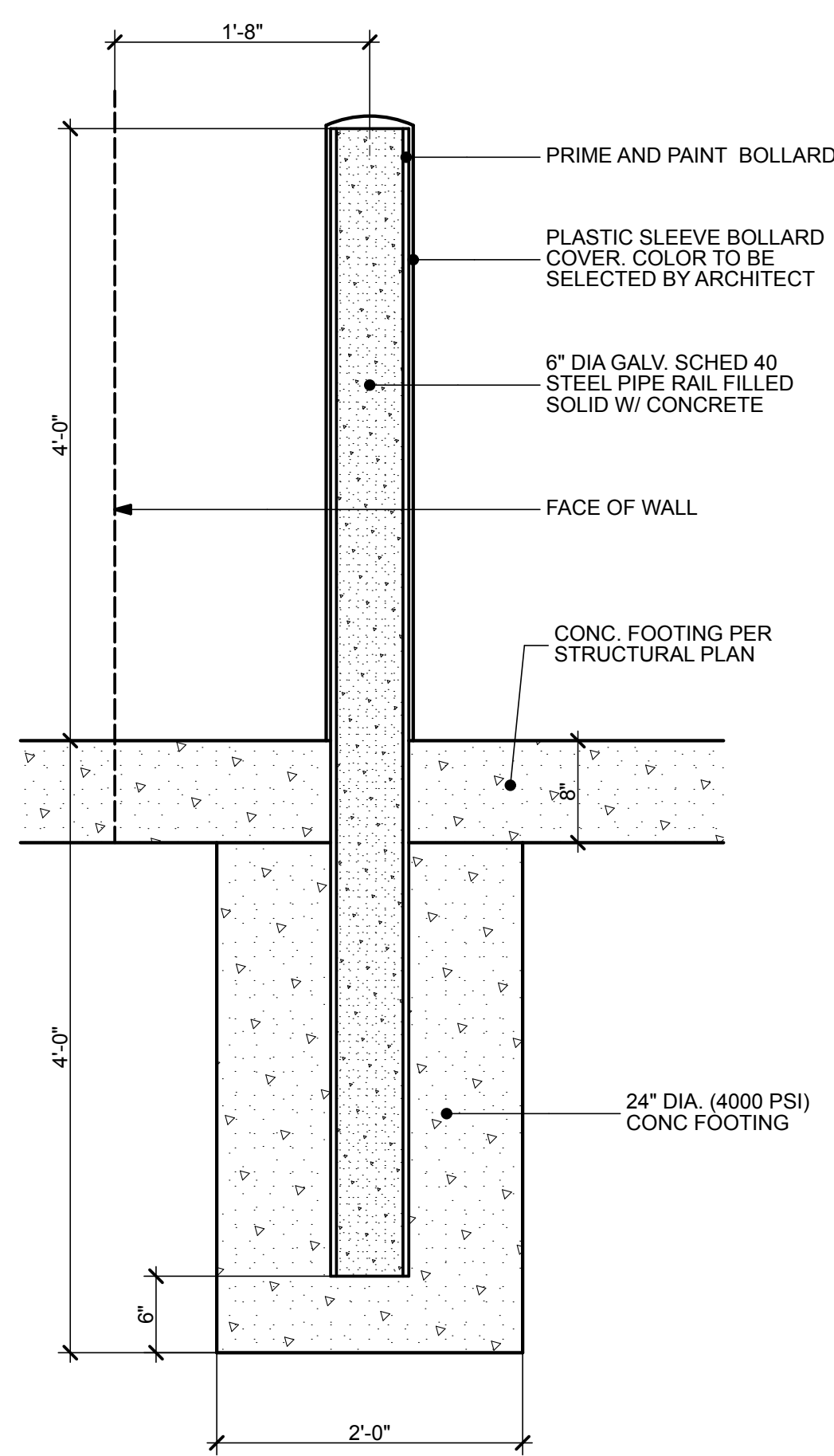
EQUIPMENT GEAR LOCKER ELEV. 1/2" = 1'-0" **M14**
TURN OUT 104 ALT-BID 05



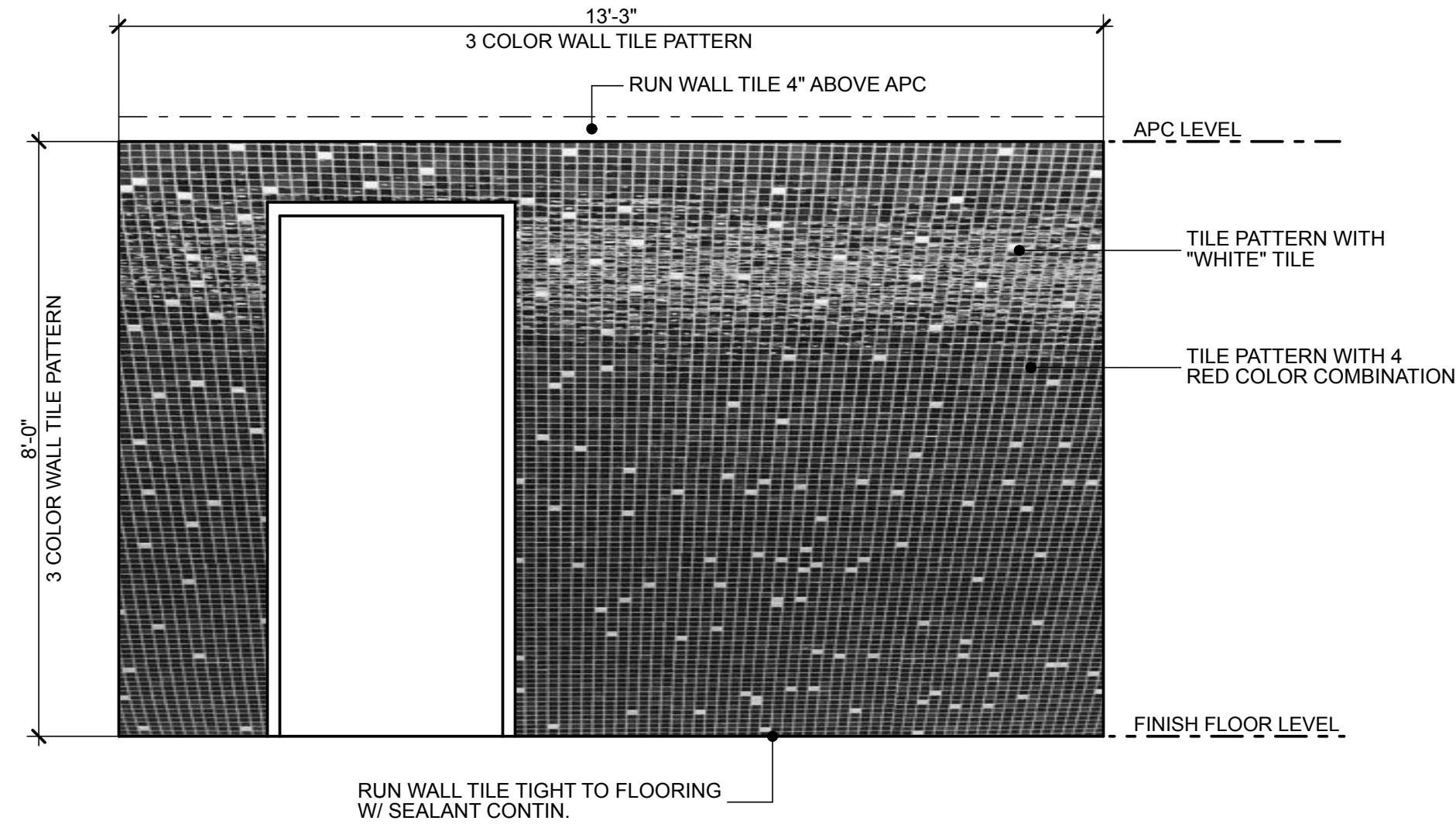
HOIST BEAM PLAN DETAIL 1/2" = 1'-0" **01**



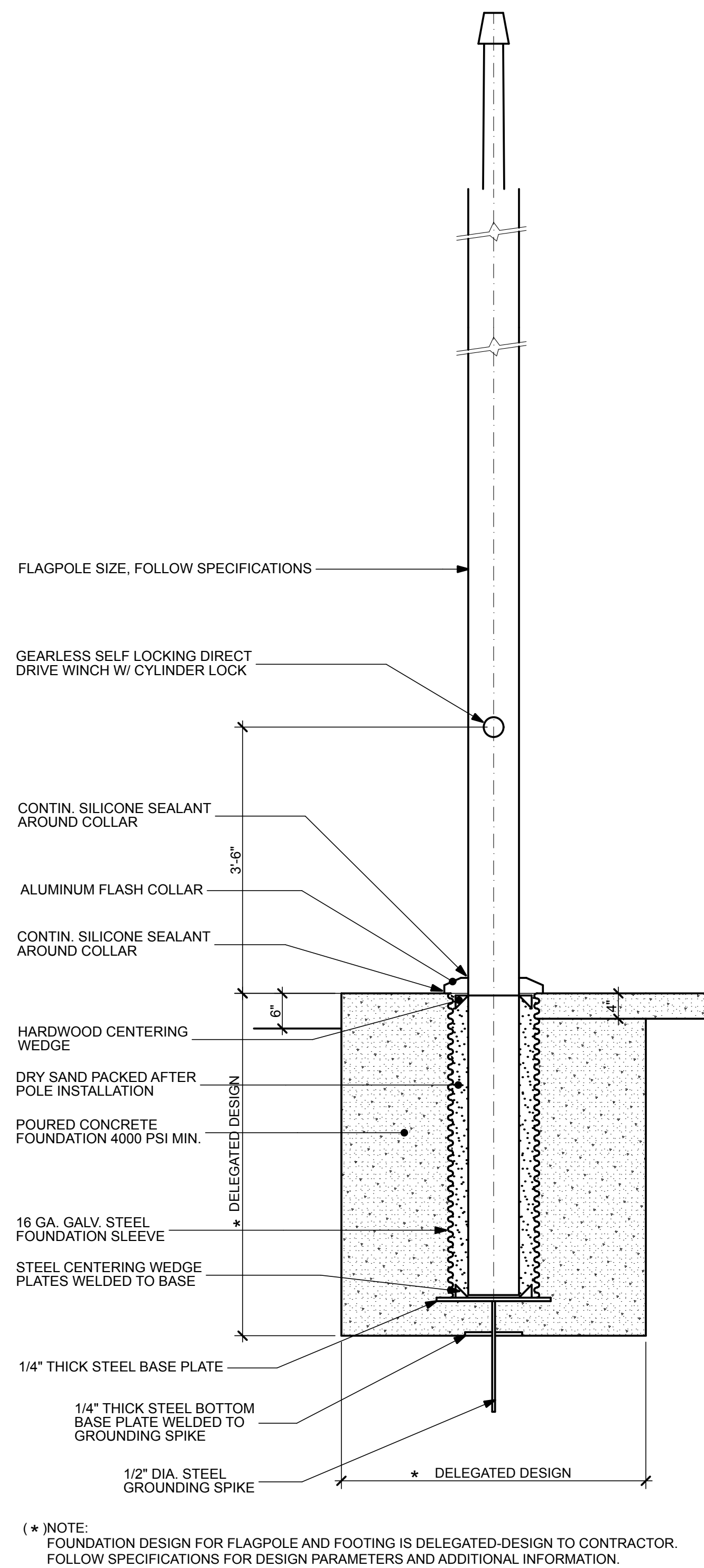
HOIST BEAM DETAIL 1 1/2" = 1'-0" **02**



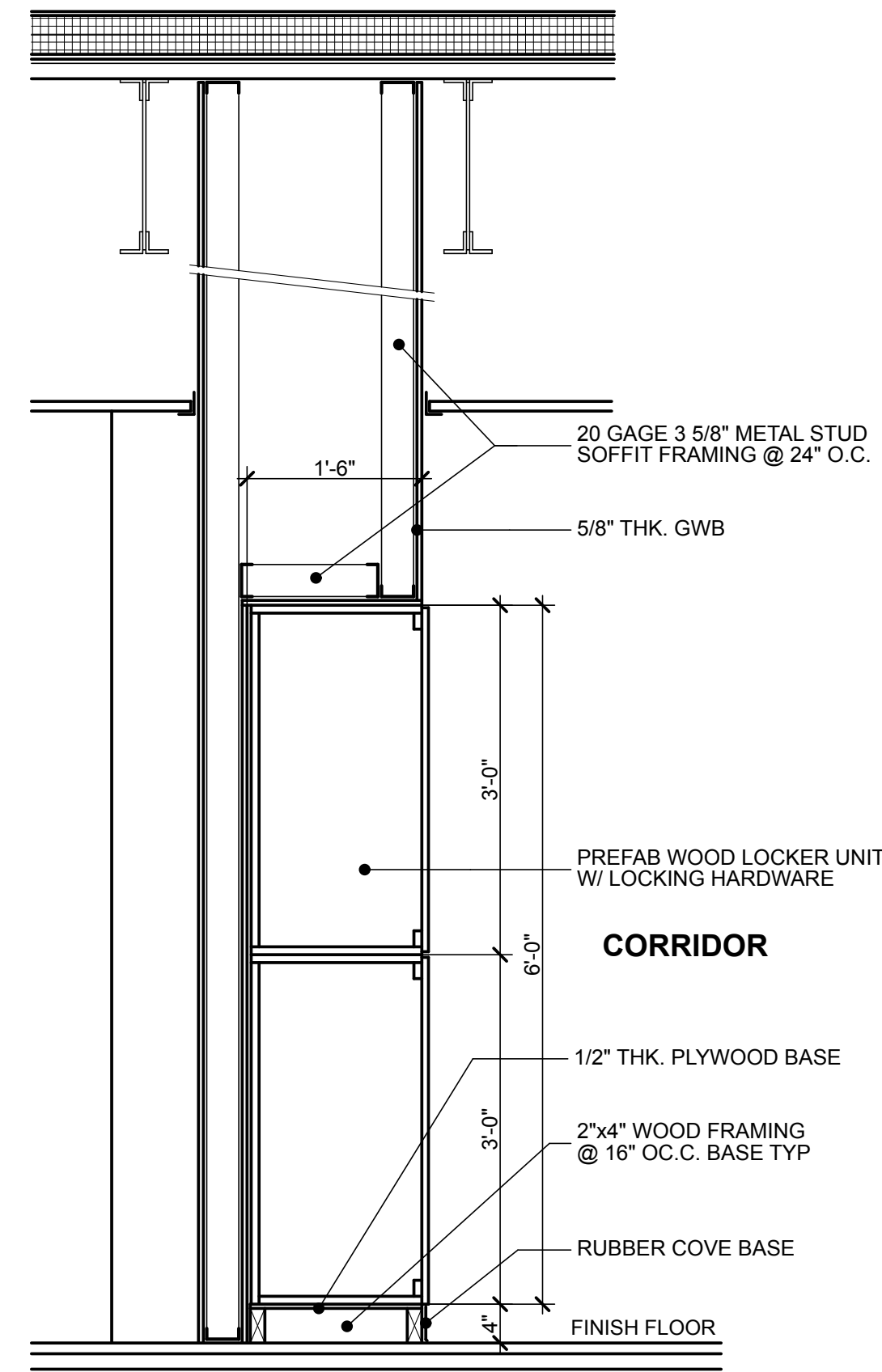
TYP. BOLLARD DETAIL 1" = 1'-0" **03**



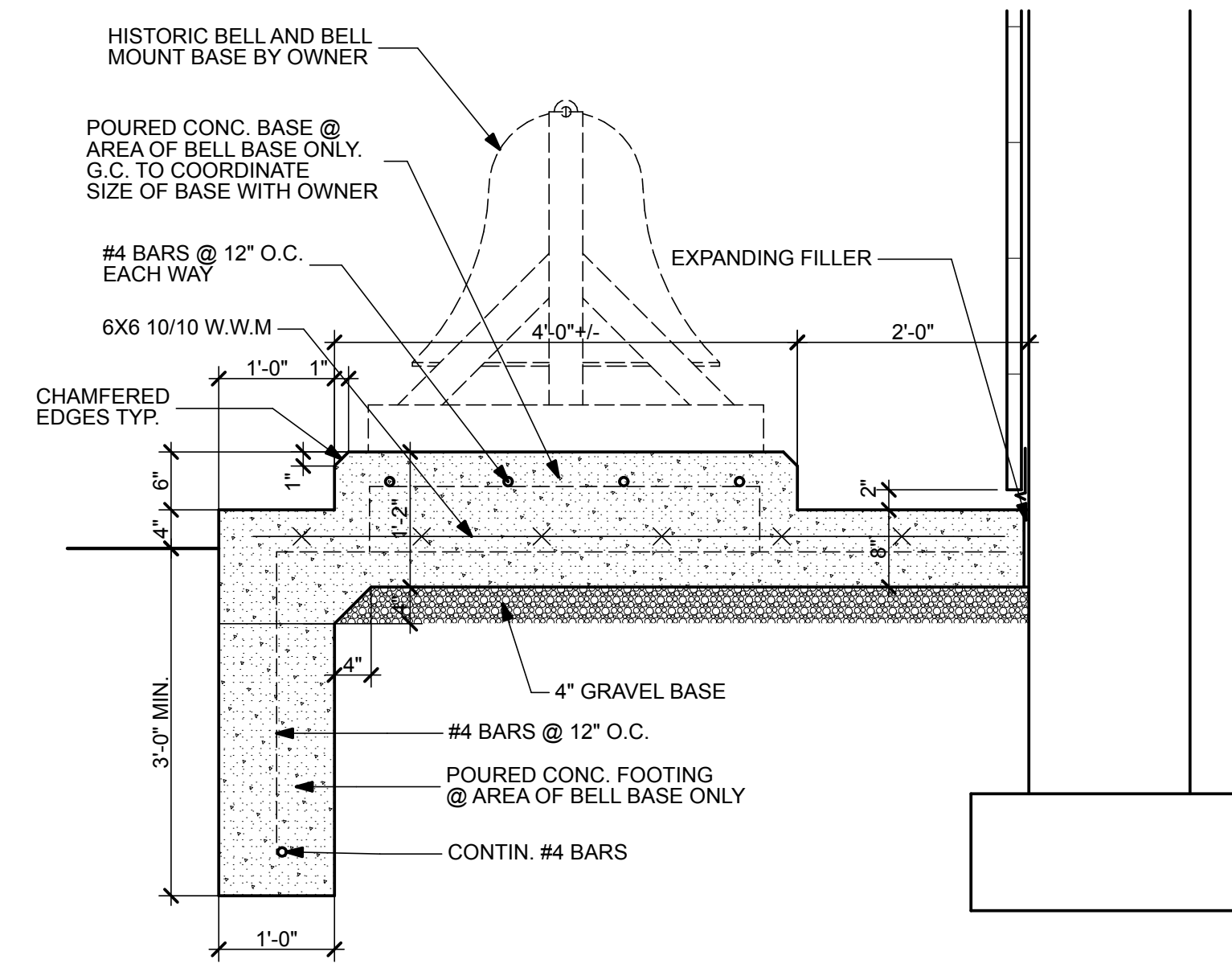
LOBBY 101 WALL TILE PATTERN 1/2" = 1'-0" **04**



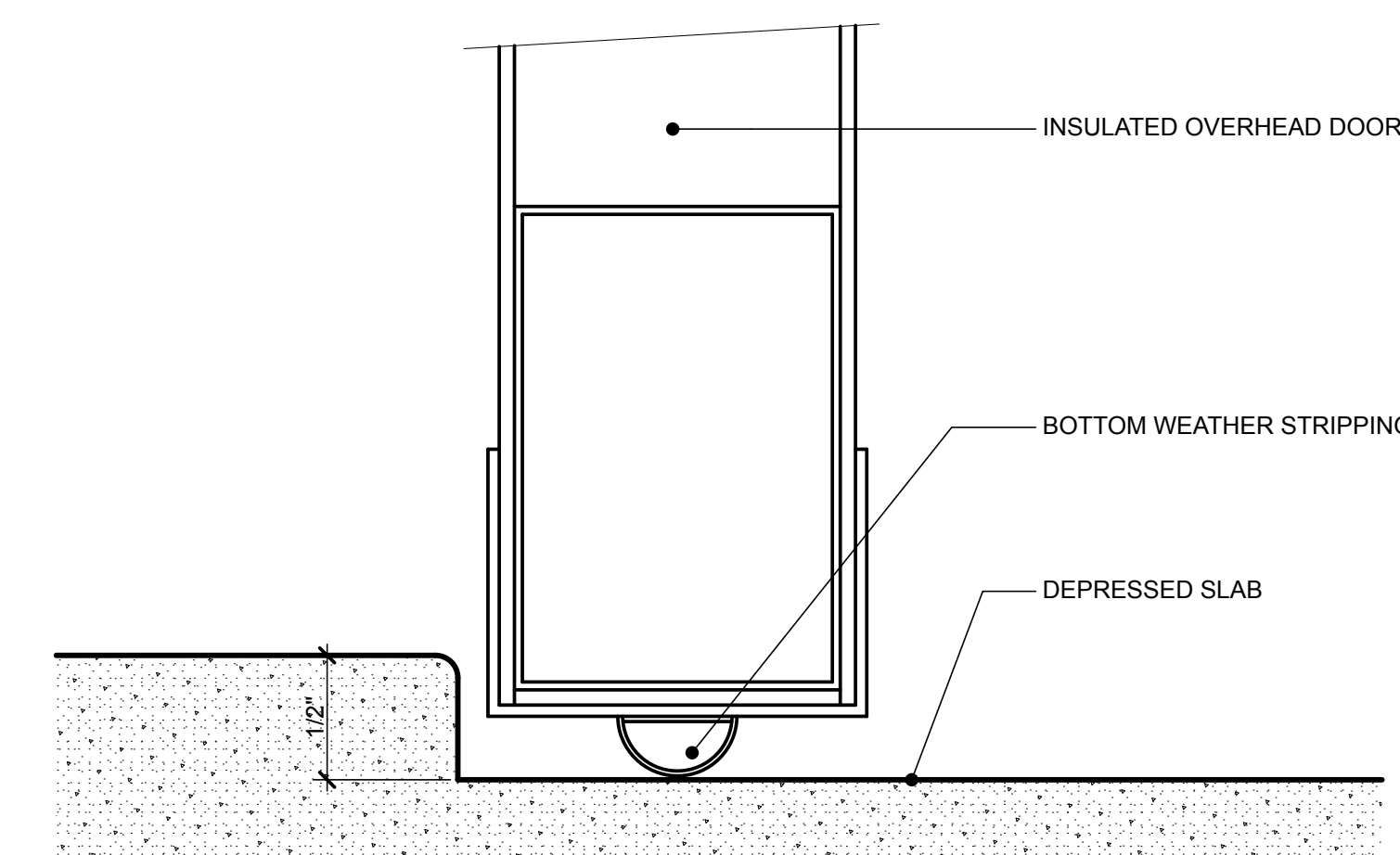
FLAGPOLE FOOTING DETAIL 3/4" = 1'-0" **05**



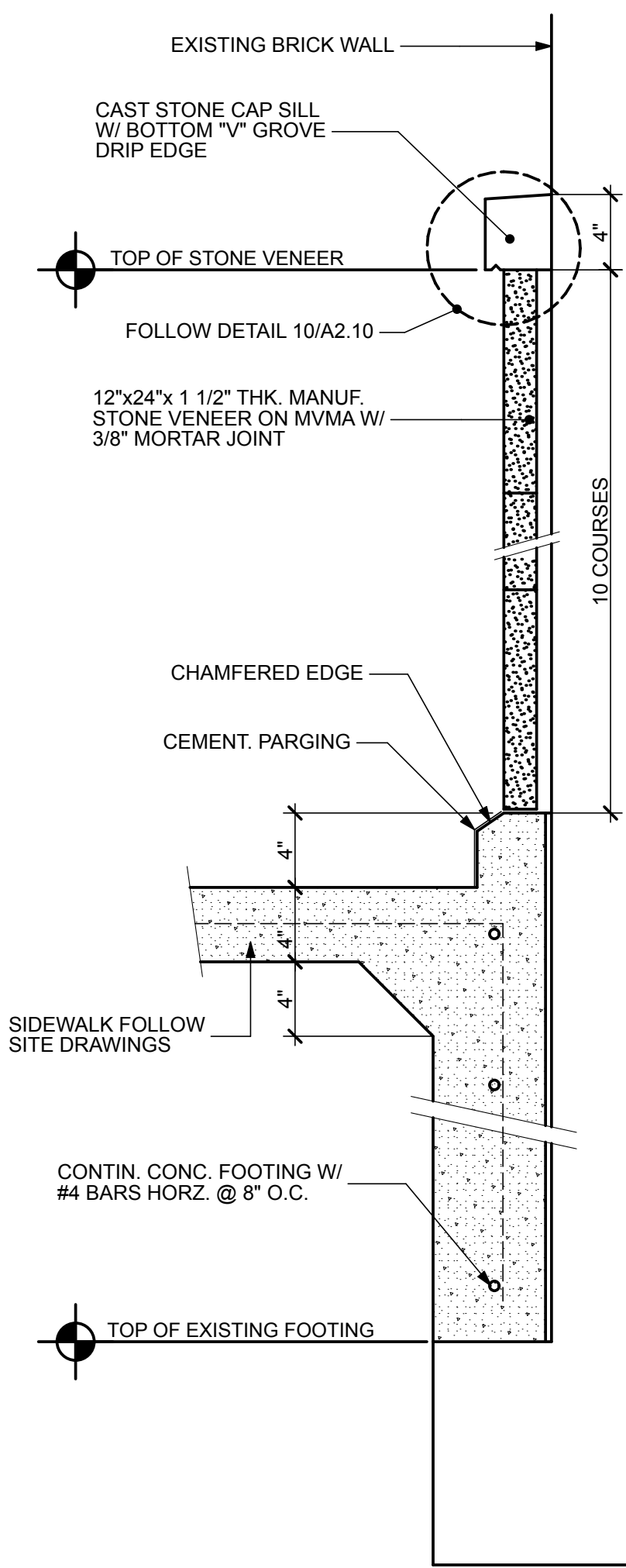
LOCKER SECTION 3/4" = 1'-0" **08**



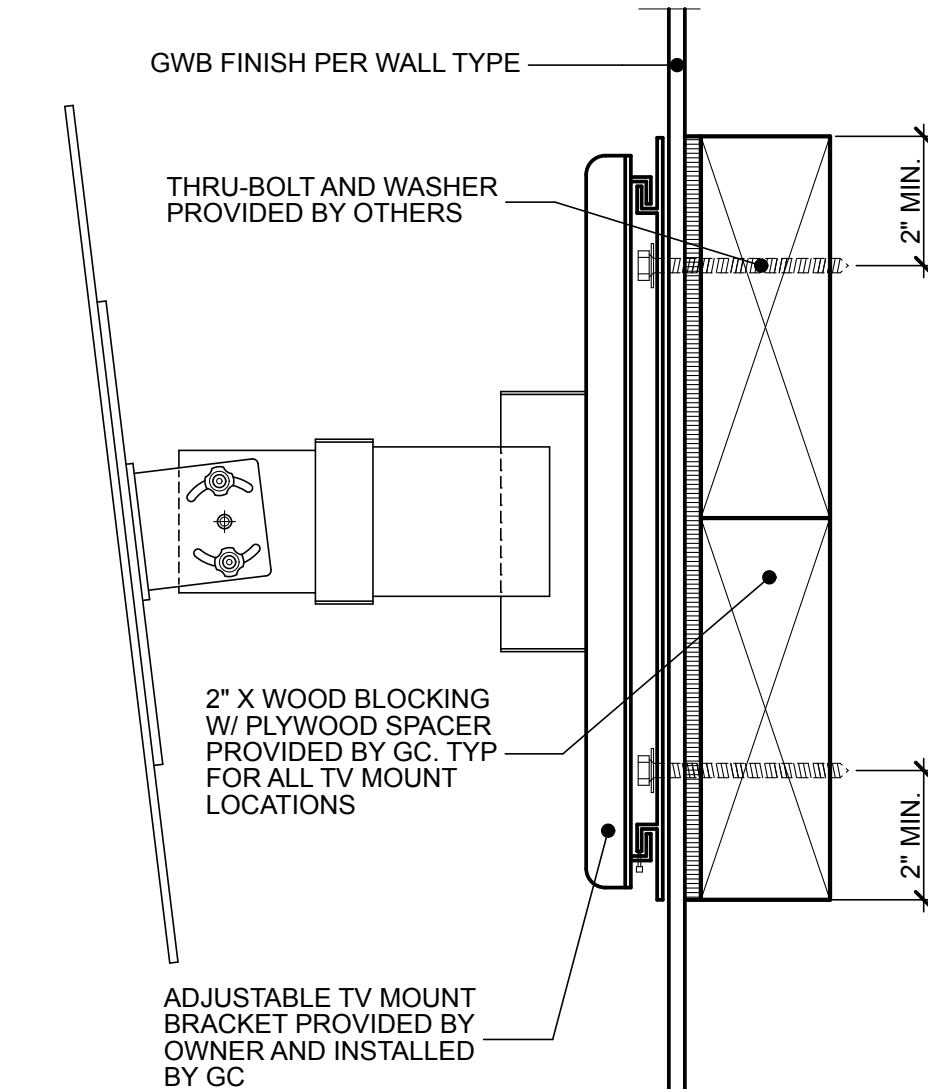
BELL BASE DETAIL 3" = 1'-0" **11**



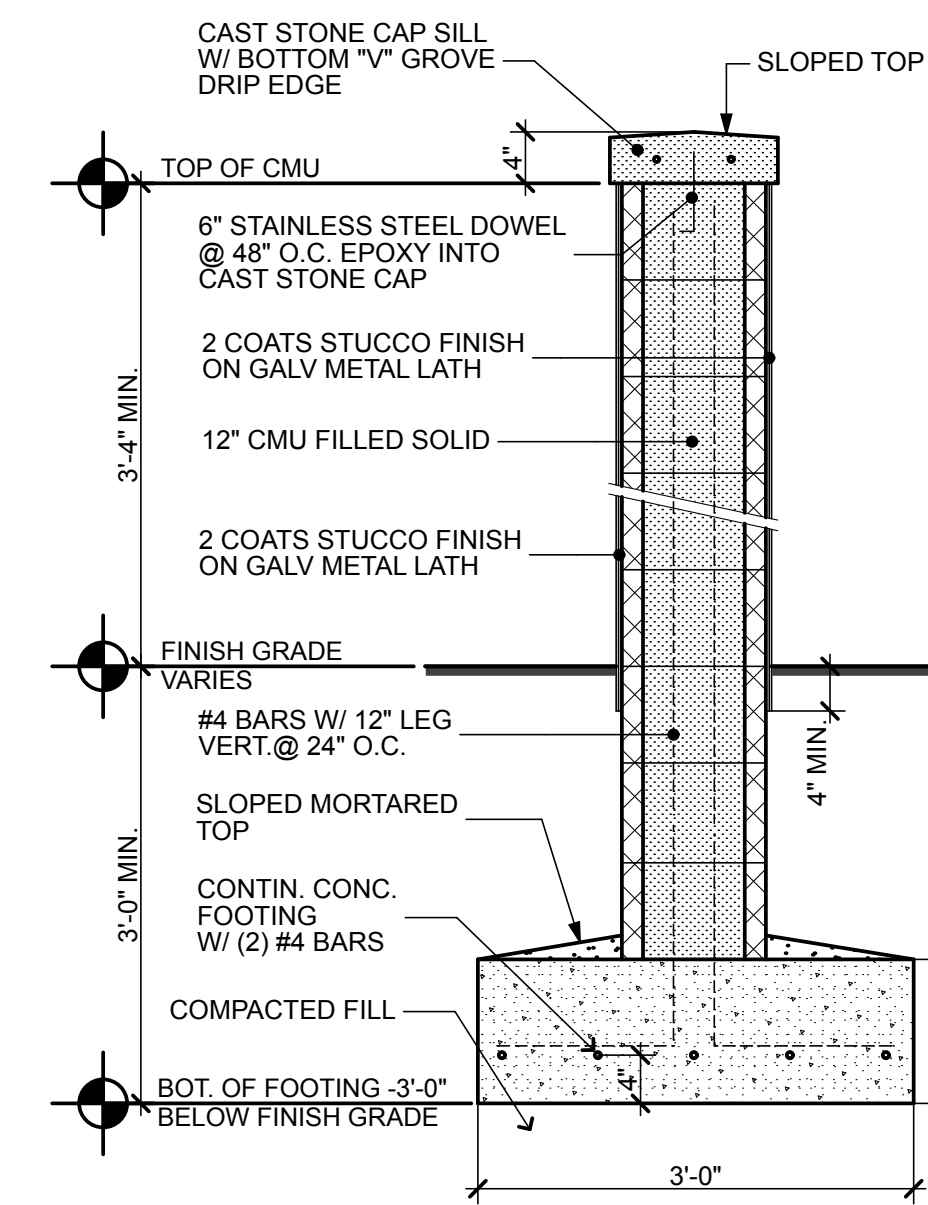
TYP. DEPRESSED SLAB DETAIL NTS **12**



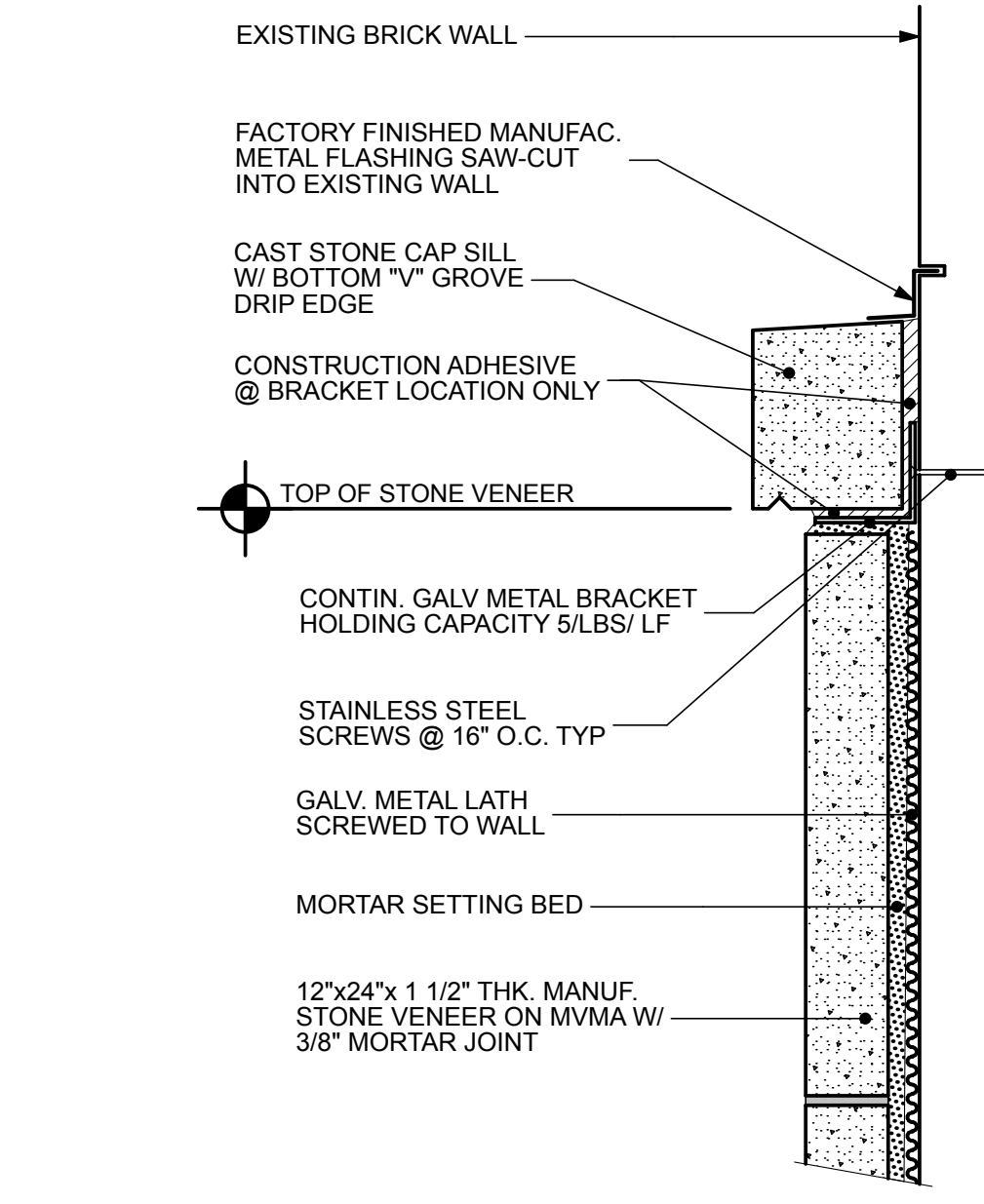
MEMORIAL WALL DETAIL 1 1/2" = 1'-0" **09**



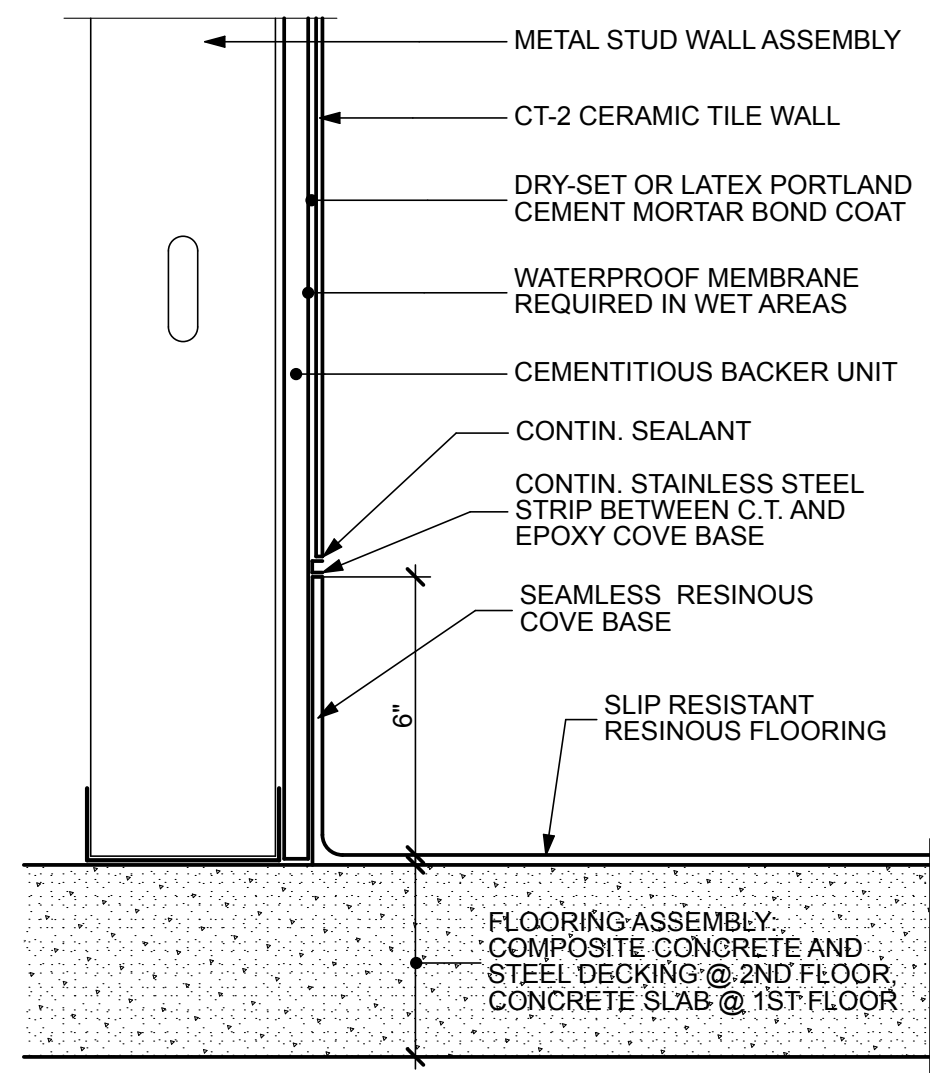
TYP. TV MOUNT DETAIL NTS **13**



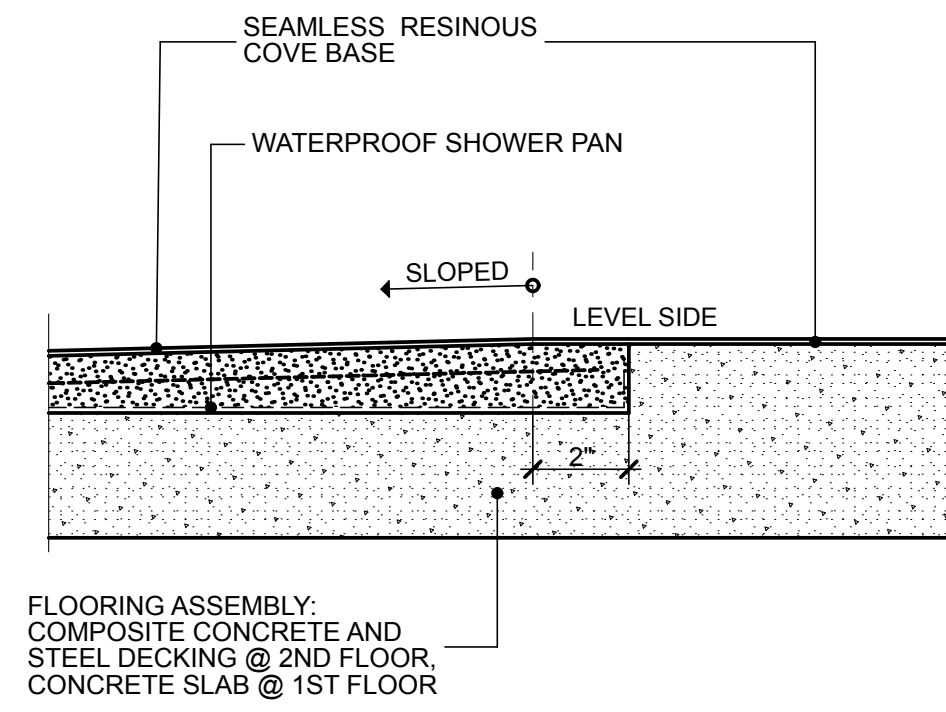
RETAINING WALL DETAIL NTS **14**



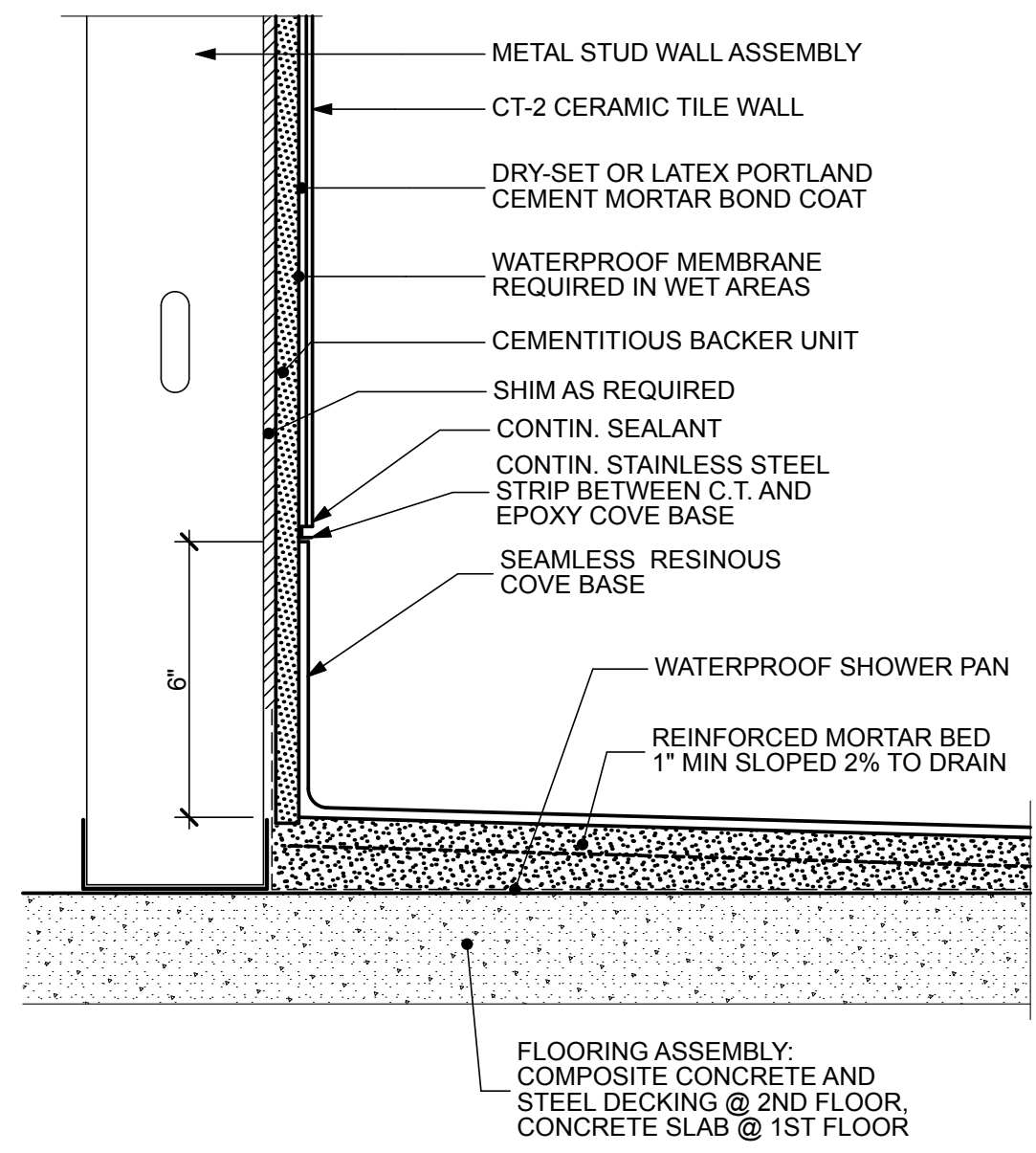
WAINSCOT DETAIL 3" = 1'-0" **10**



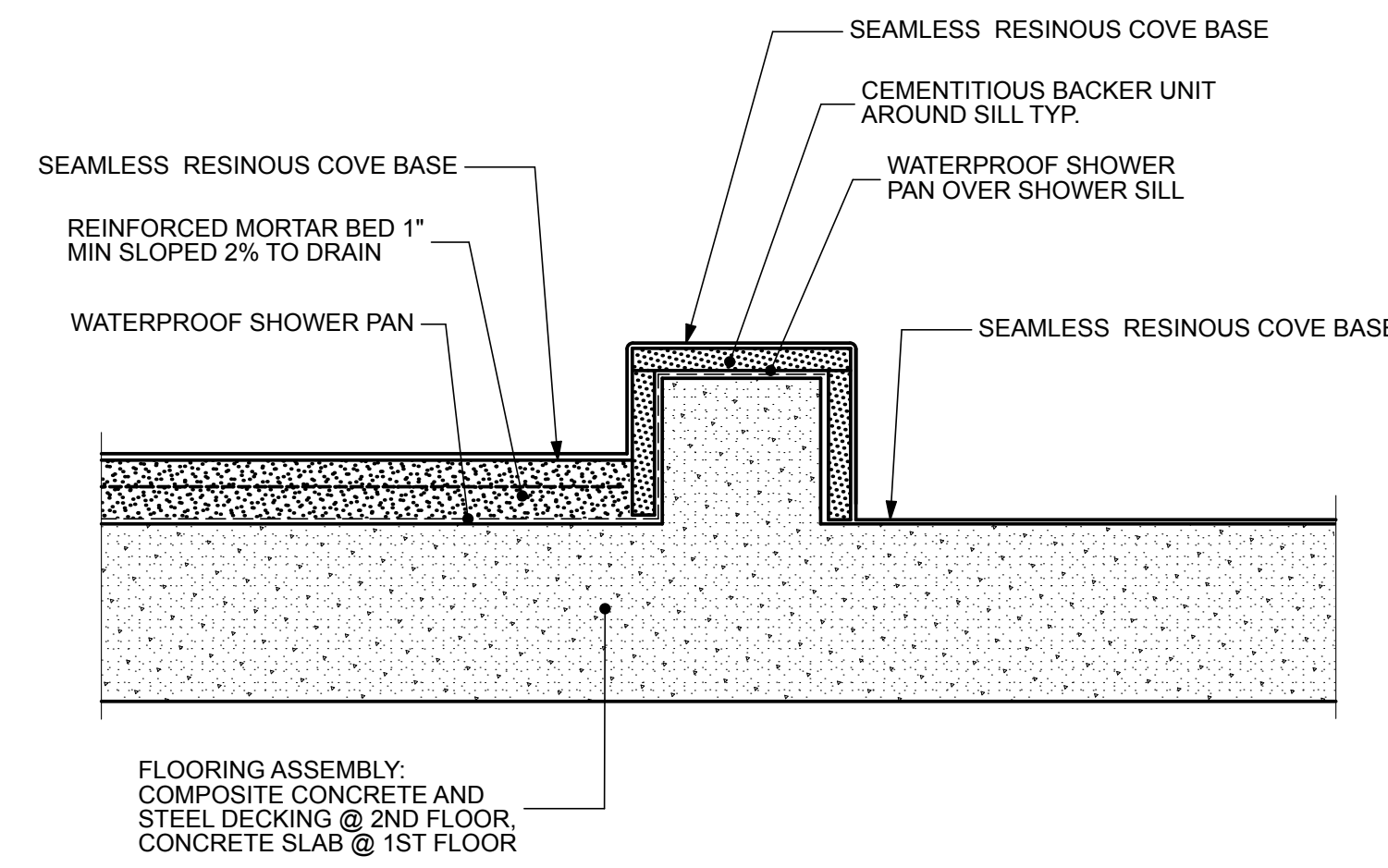
RESINOUS FLOORING DETAIL 3" = 1'-0" **C1**



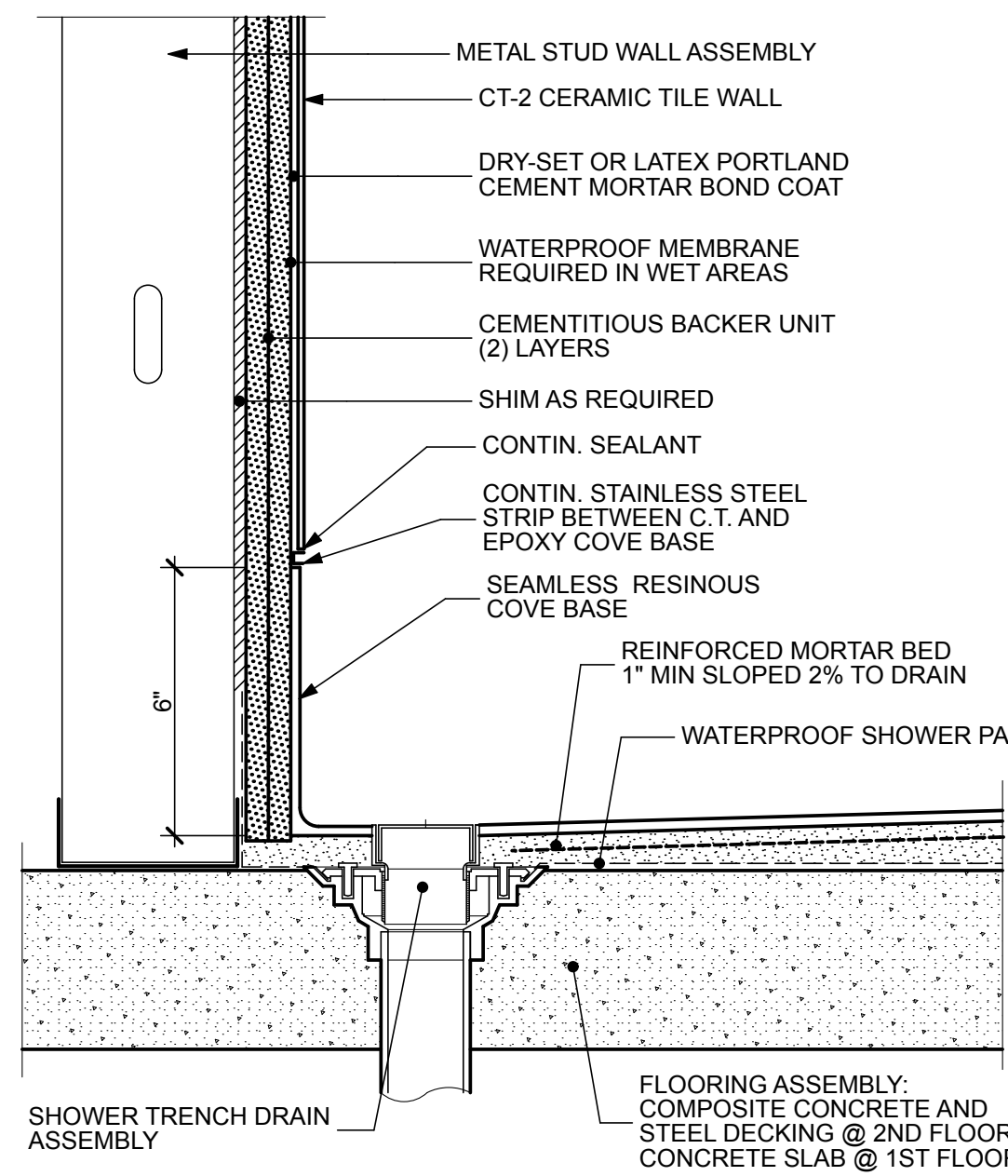
SHOWER CERAMIC TILE DETAIL 3" = 1'-0" **C4**



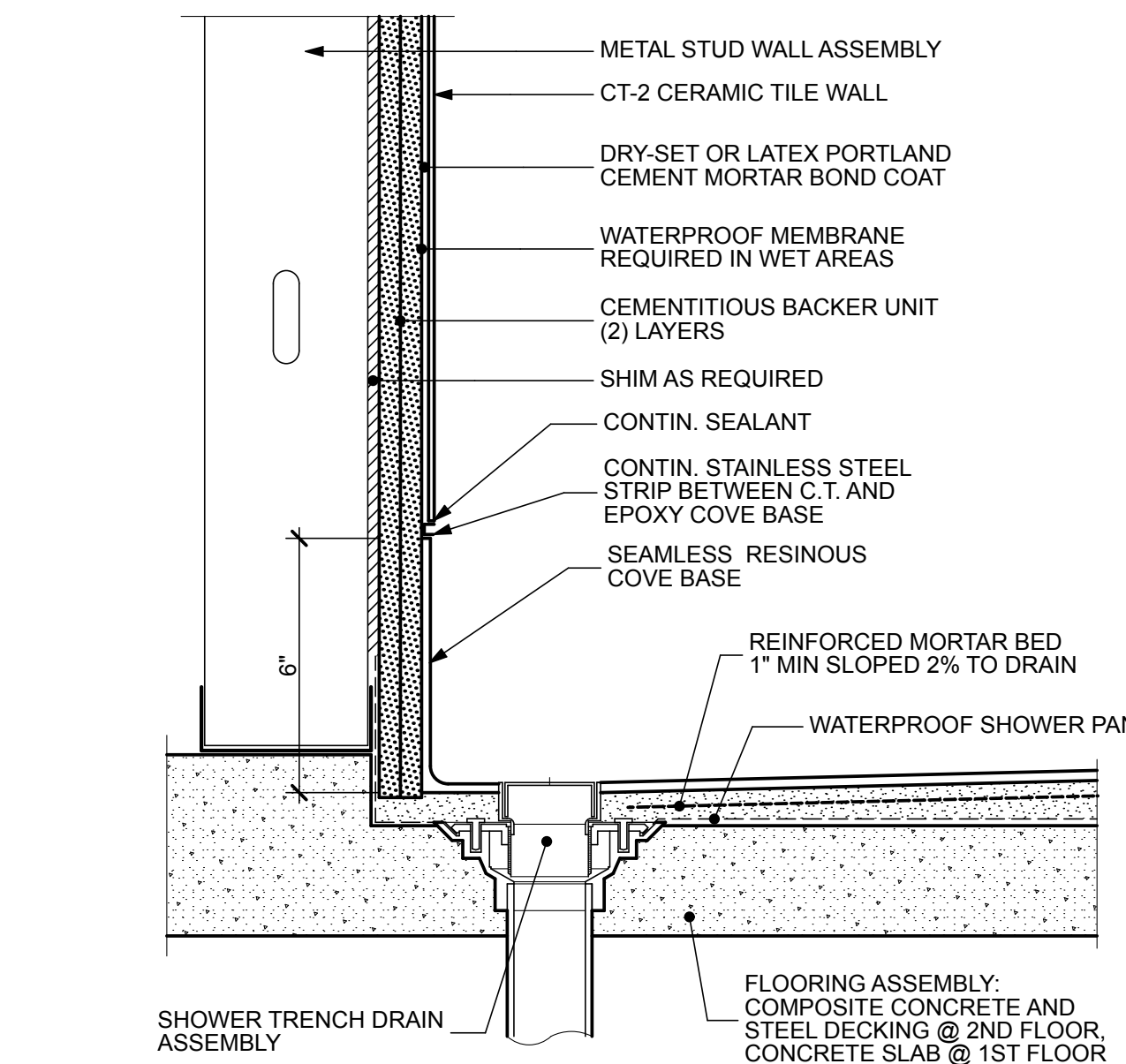
SHOWER CERAMIC TILE DETAIL 3" = 1'-0" **C2**



SHOWER CERAMIC TILE DETAIL 3" = 1'-0" **C5**

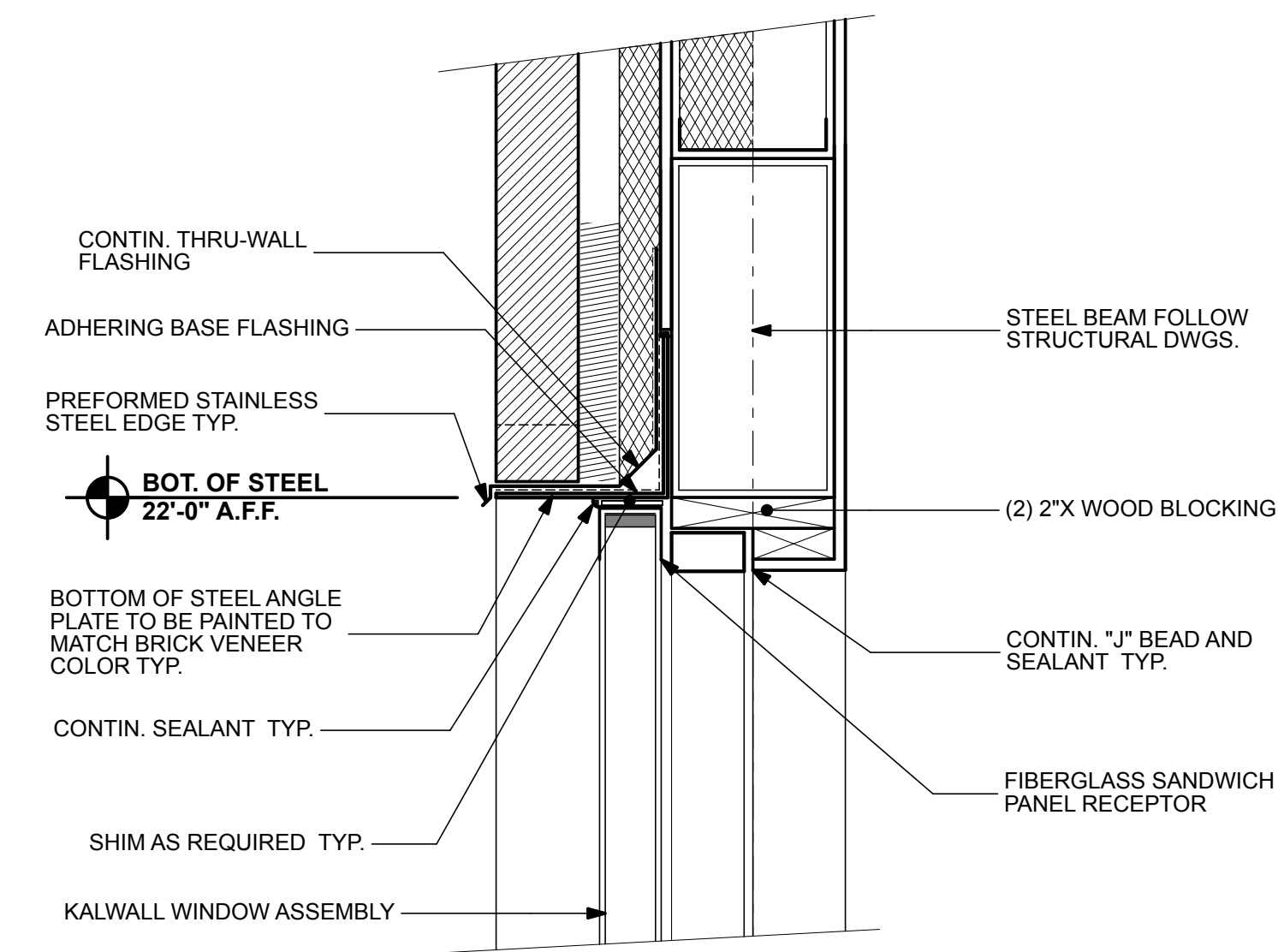


SHOWER CERAMIC TILE DETAIL 3" = 1'-0" **C3**

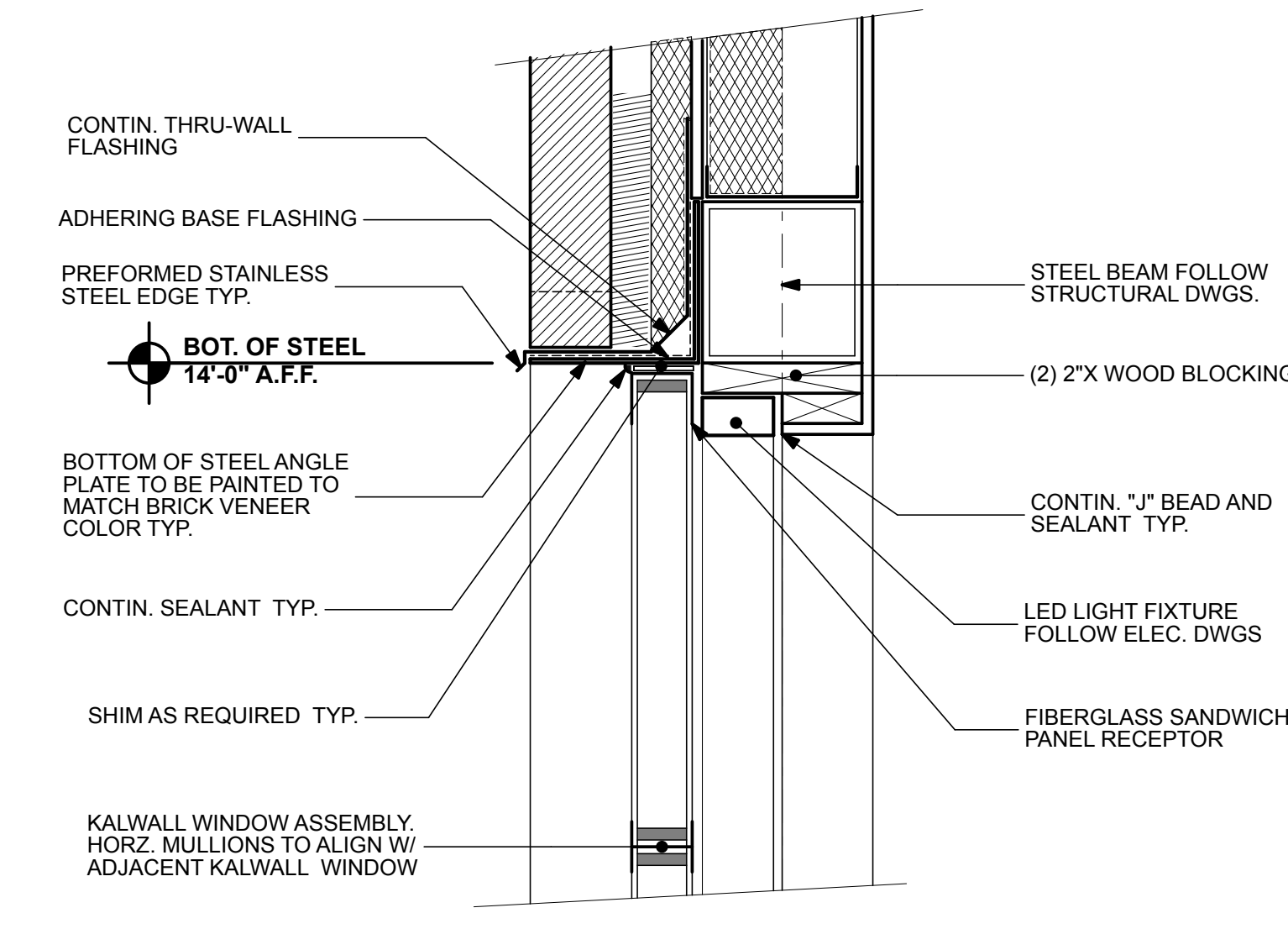


SHOWER CERAMIC TILE DETAIL 3" = 1'-0" **C4**

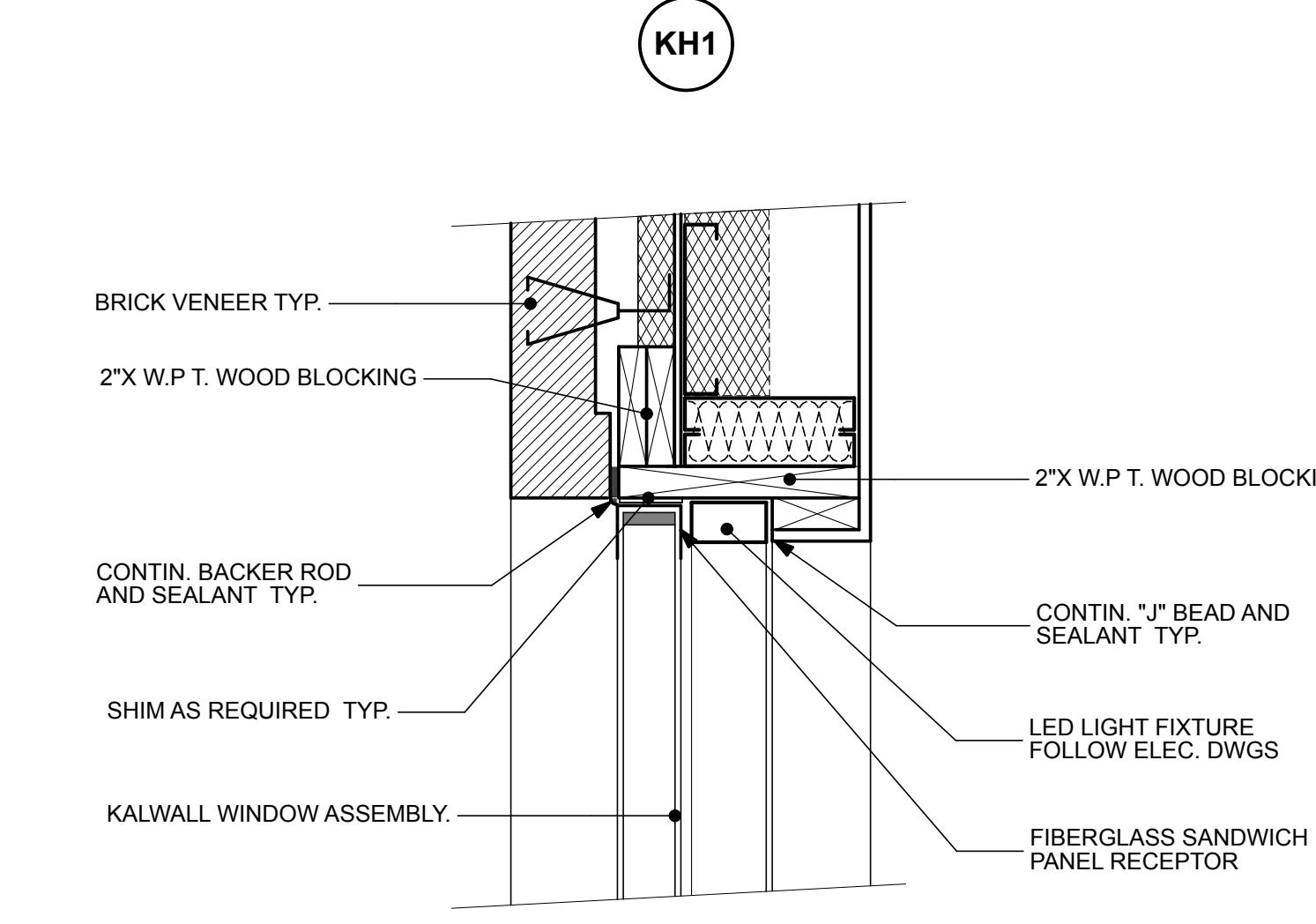
KALWALL DETAILS NTS **16**



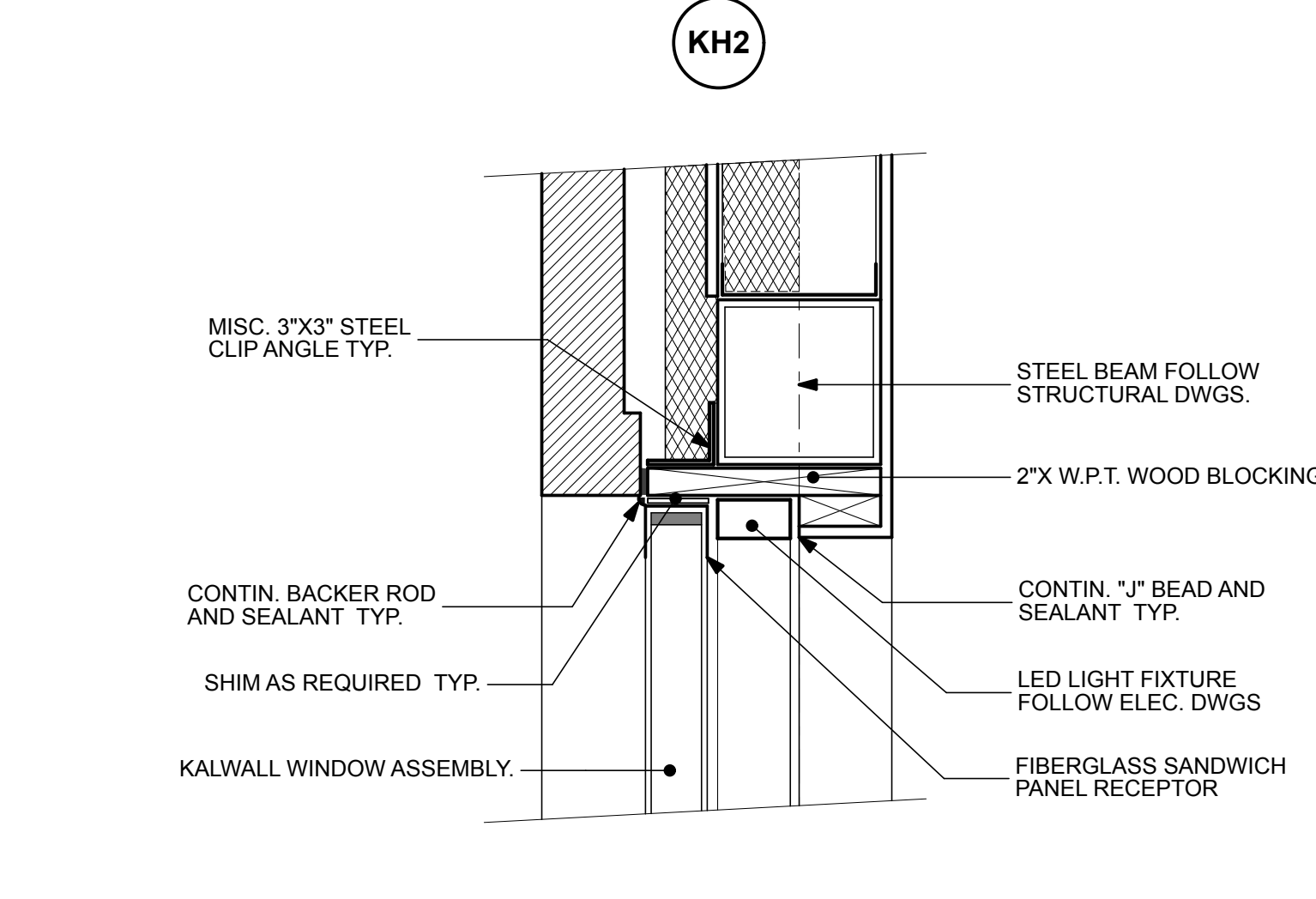
KH1



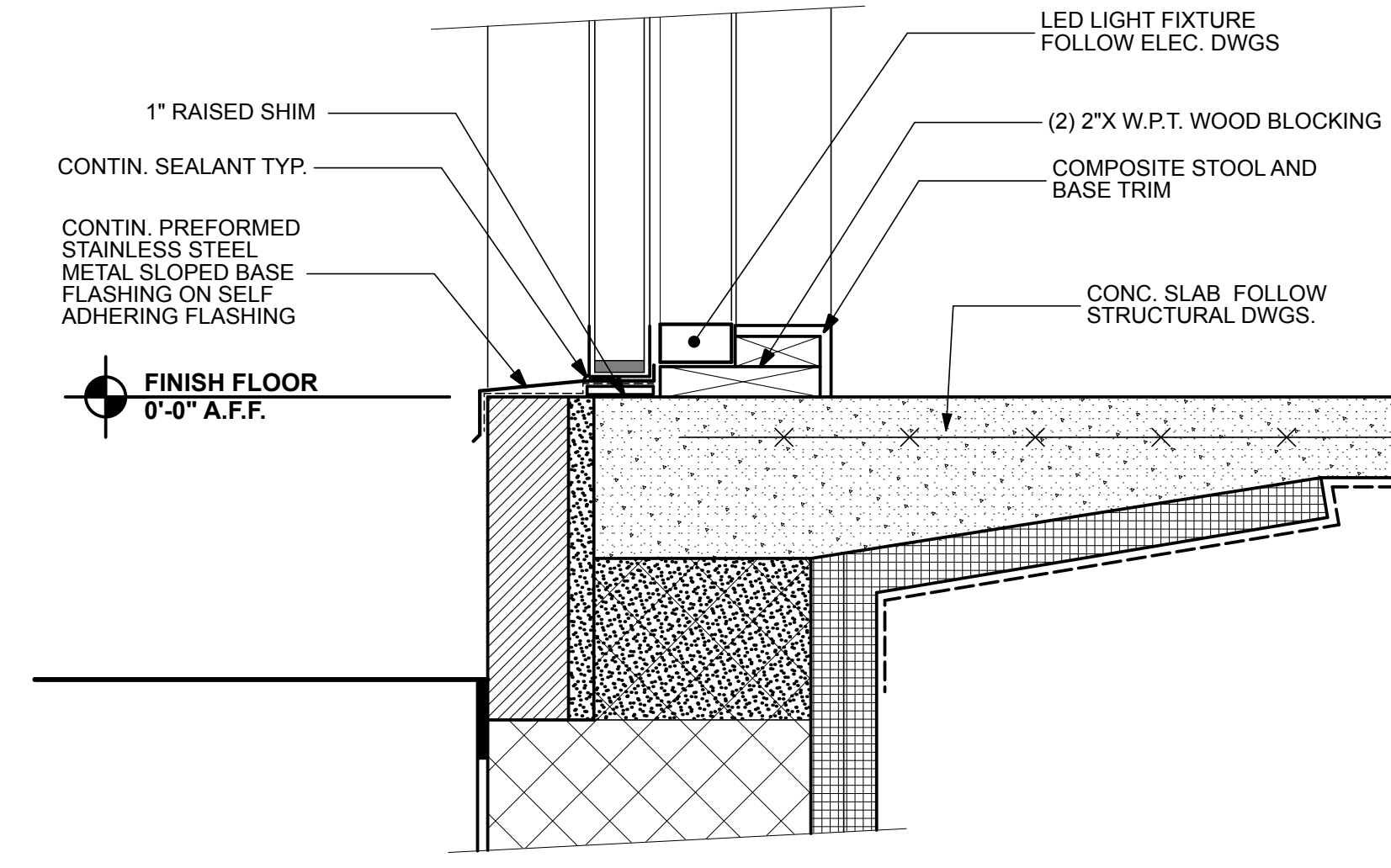
KH2



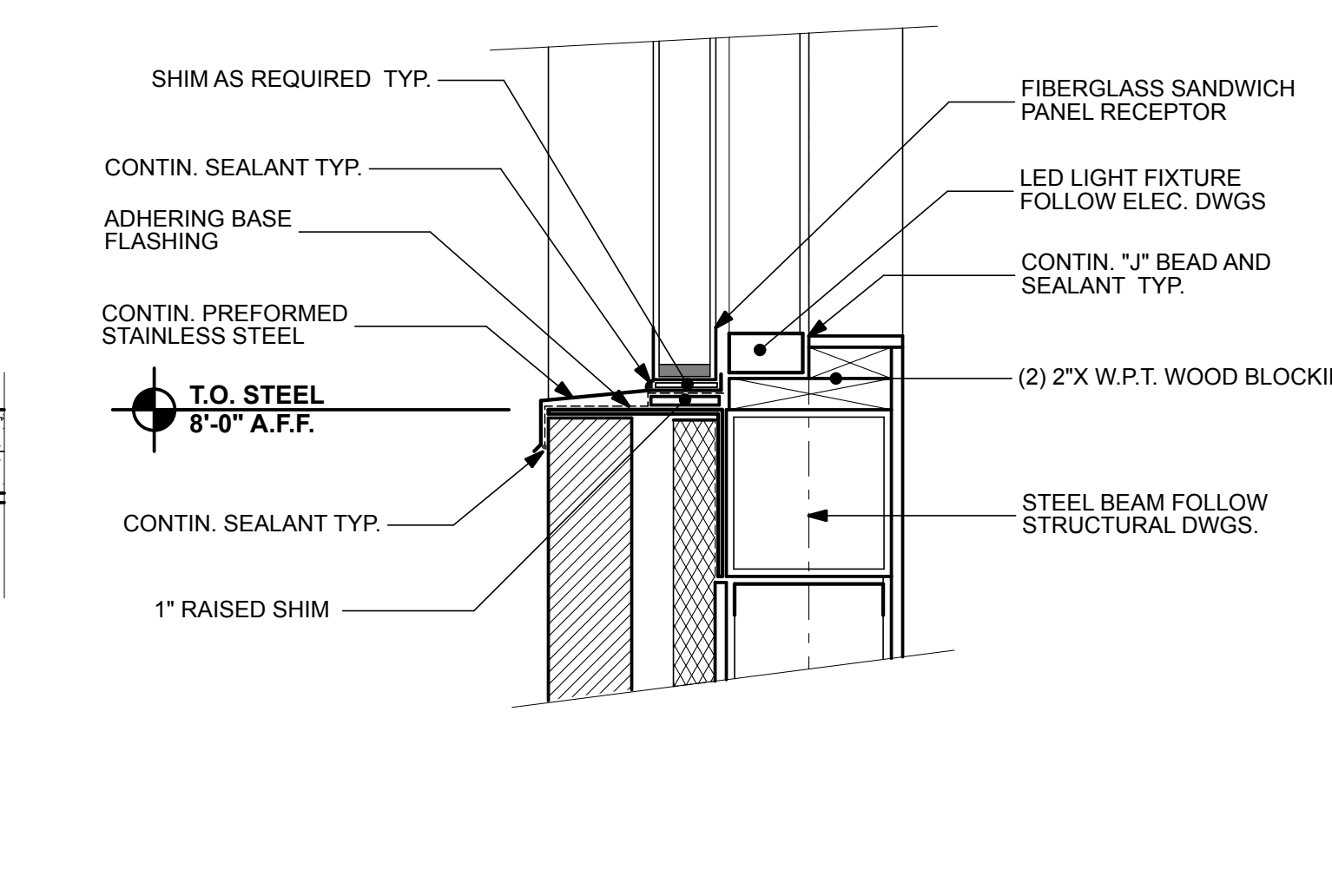
KJ1



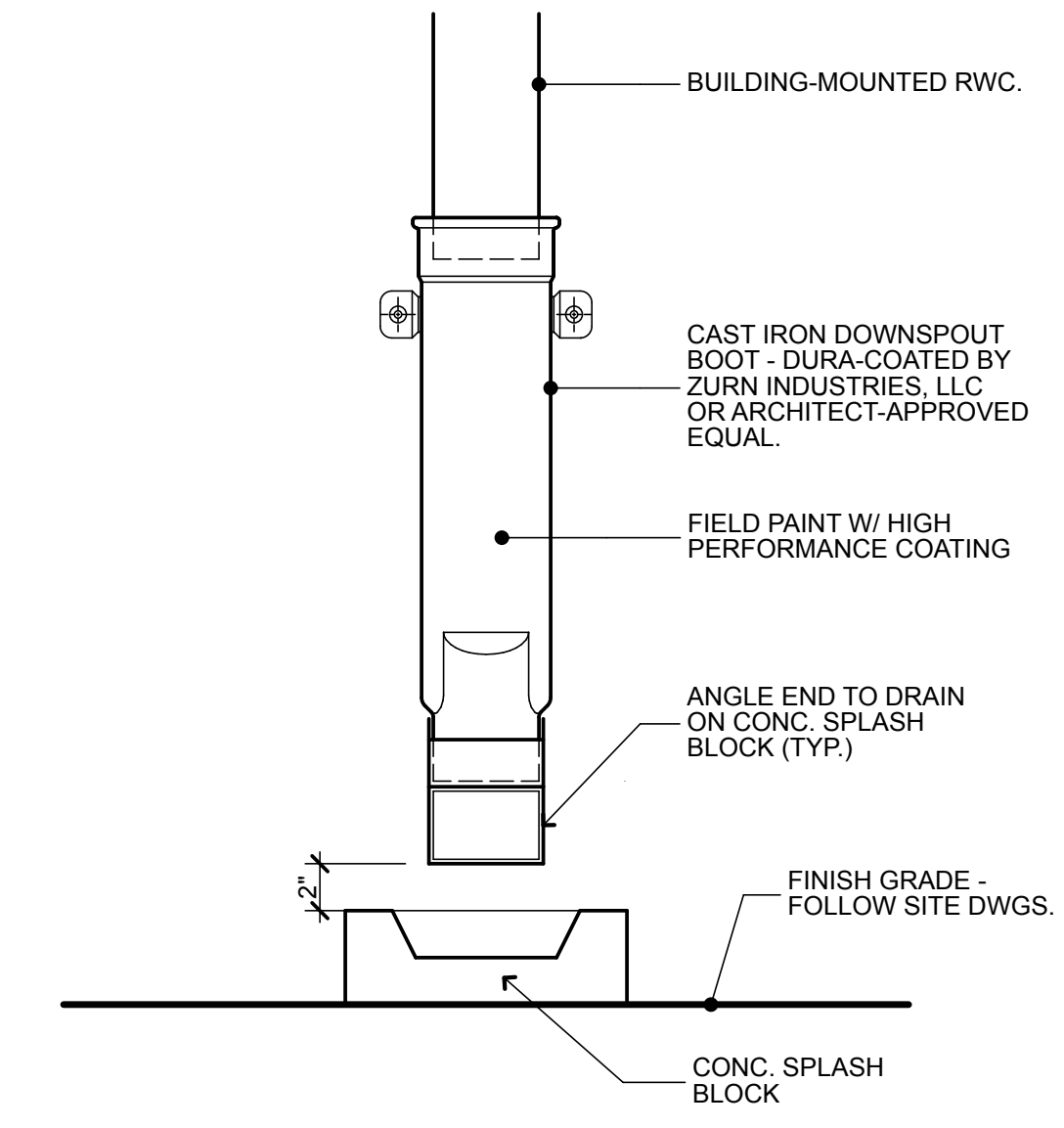
KJ2



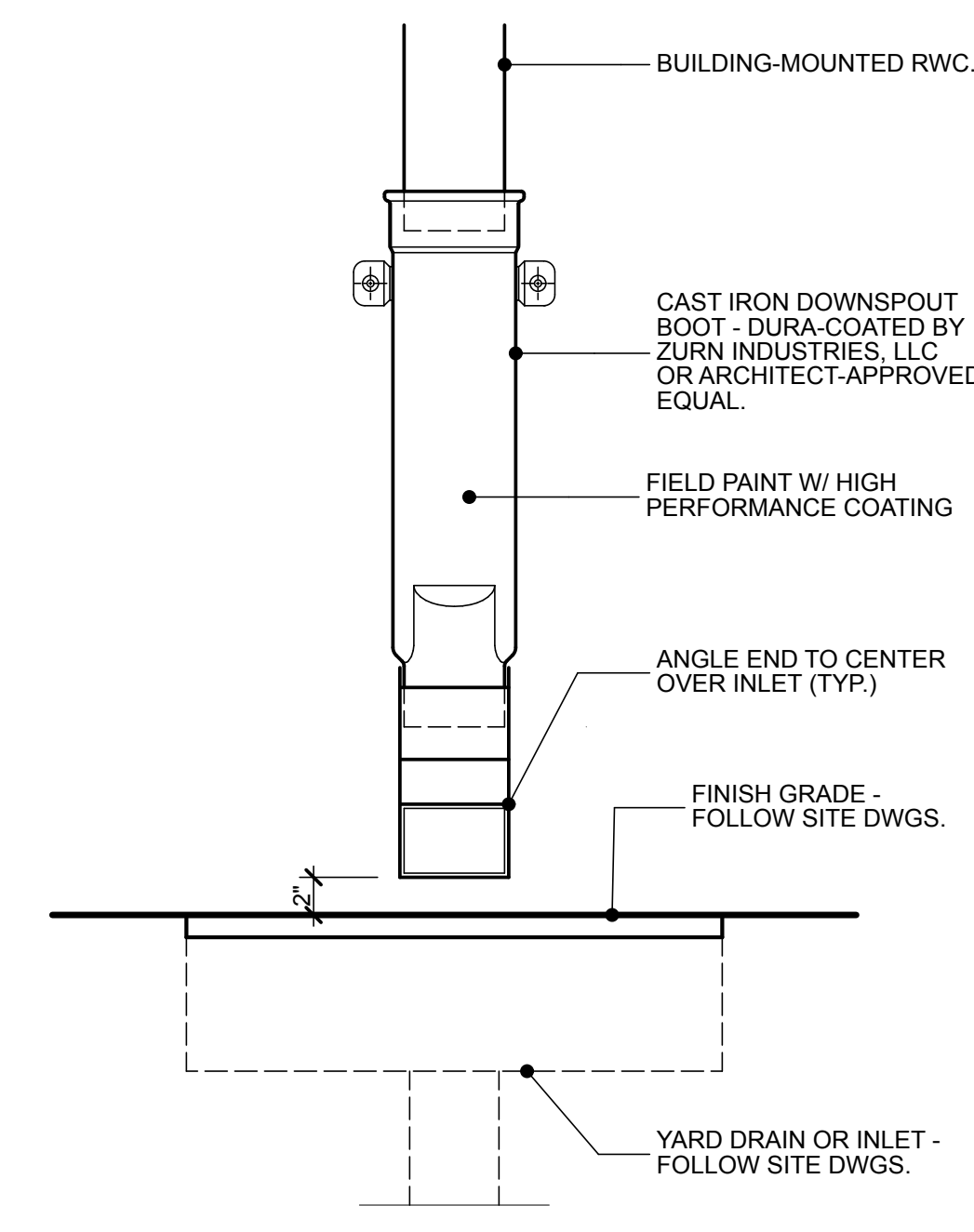
KS1



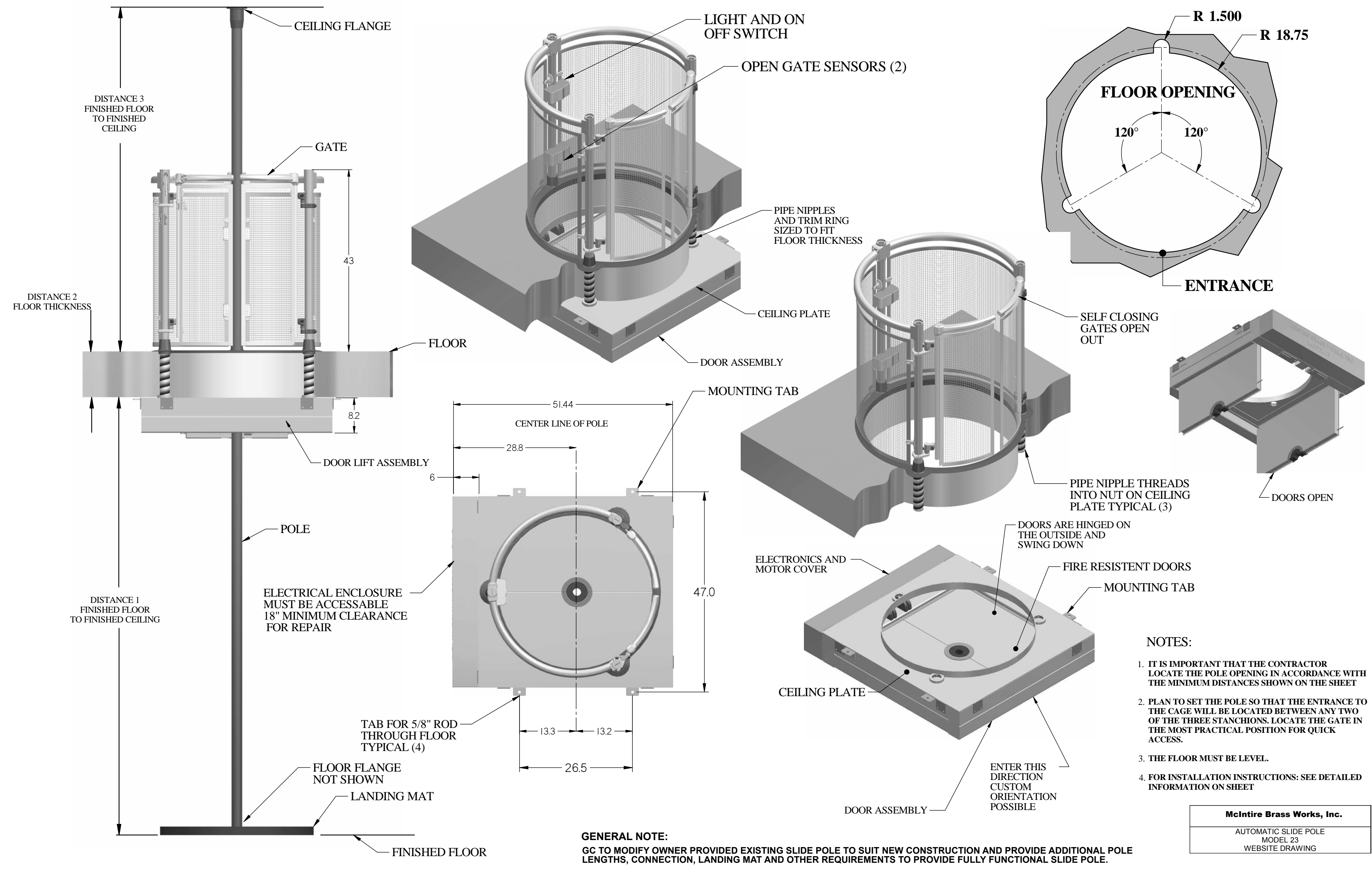
KS2



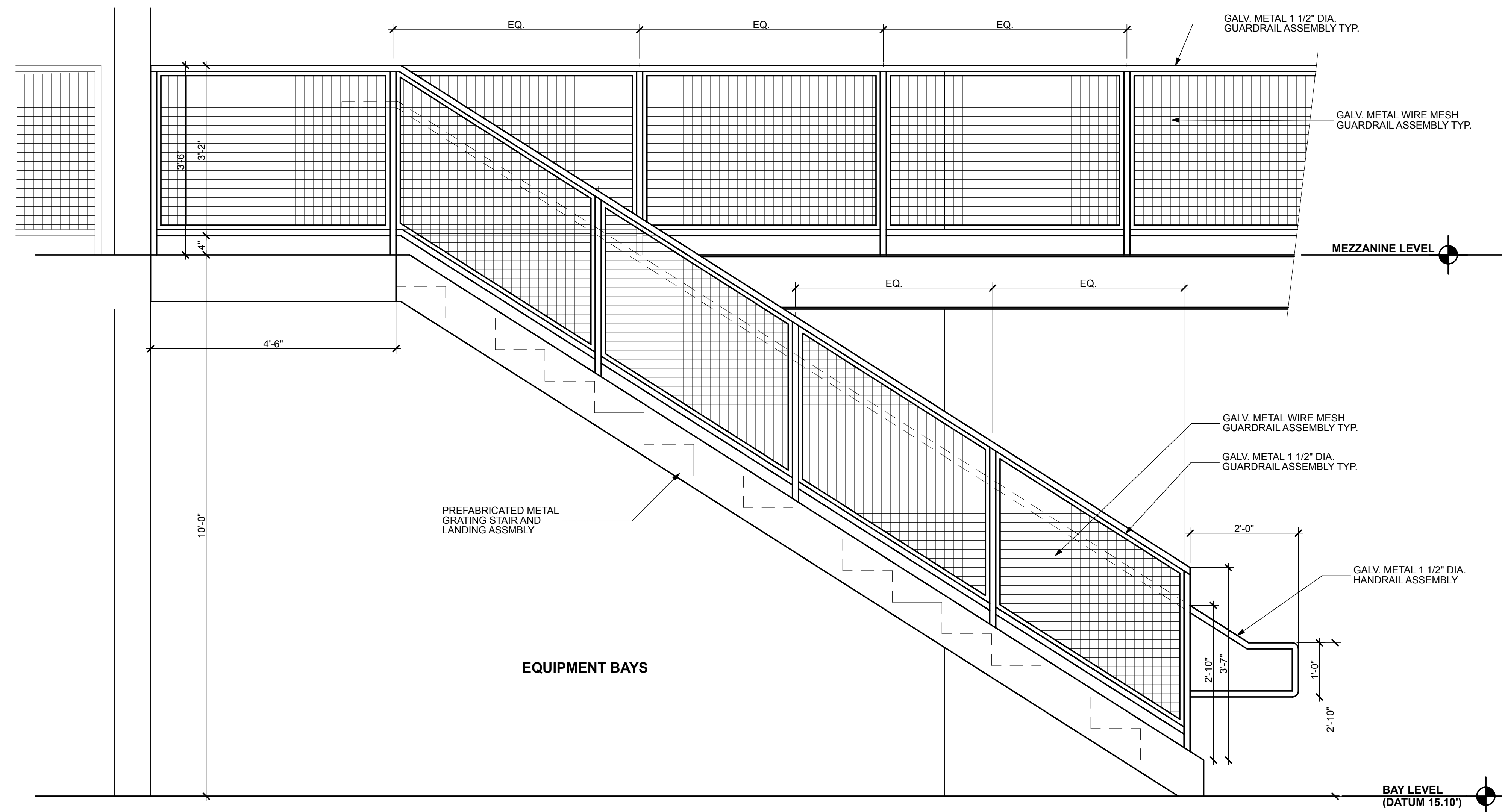
RWC @ SPLASHBLOCK DTL. NTS **14**



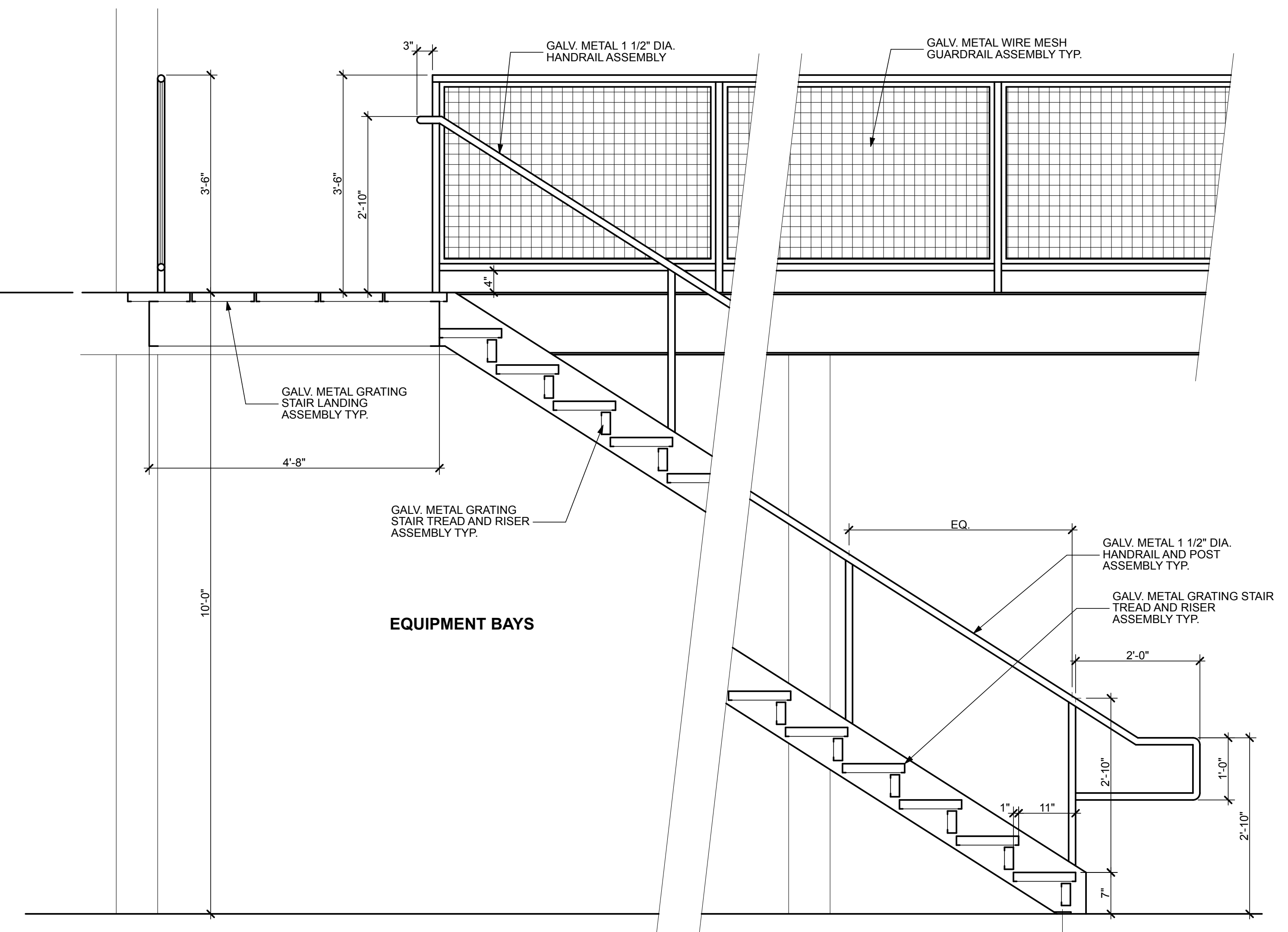
RWC @ STORM CONN. DTL. NTS **15**



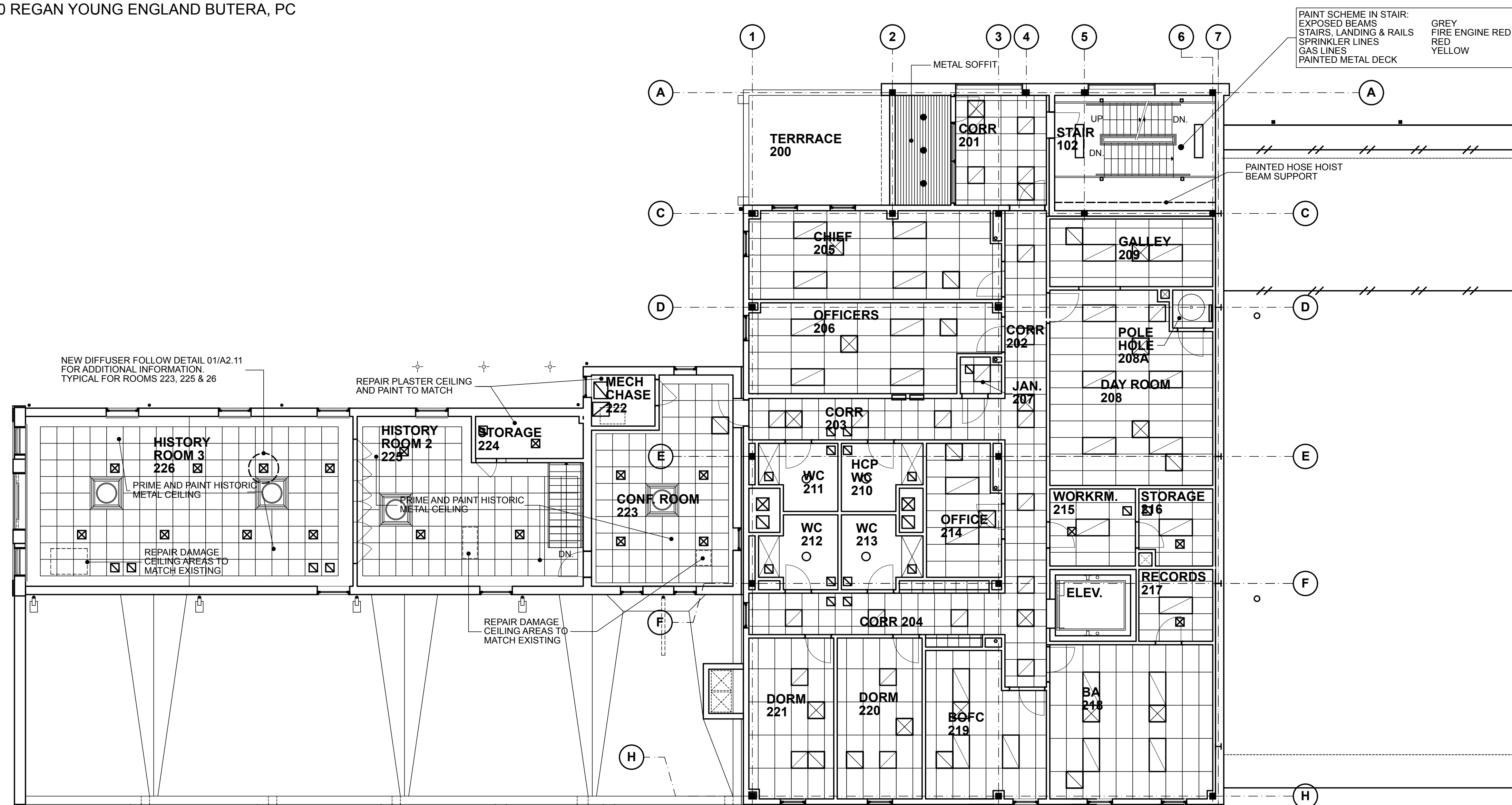
AUTOMATIC SLIDE POLE DETAIL NTS **03**



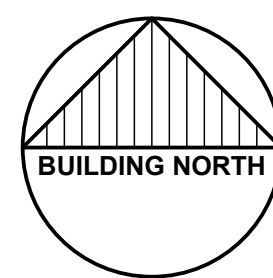
STAIR DETAIL 3/4" = 1'-0" **01**



SECTION THRU- STAIR 3/4" = 1'-0" **02**



SECOND FLOOR REFLEC. CLG. PLAN 1/8" = 1'-0" **02**

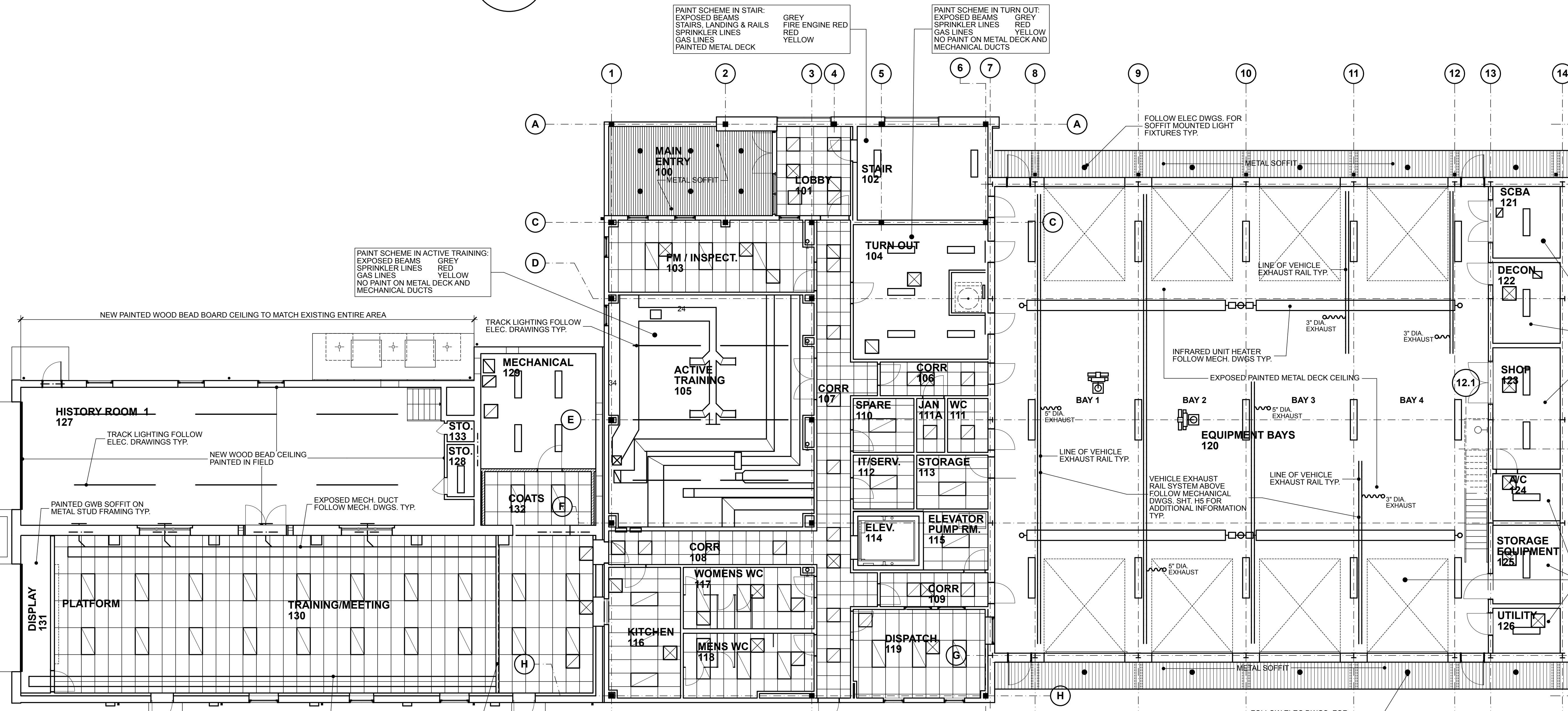


HISTORIC METAL CEILING IN ROOMS 223, 225 AND 226 **01**

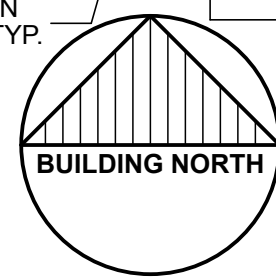
CAREFULLY LOCATE AND INSTALL NEW HVAC DIFFUSER IN CENTER OF METAL CEILING PANELS. FOLLOW MECHANICAL DRAWINGS FOR APPROXIMATE LOCATIONS. GC TO VERIFY IN FIELD.

REPAIR EXISTING METAL CEILING AND CORNICES, THEN PRIME AND PAINT.

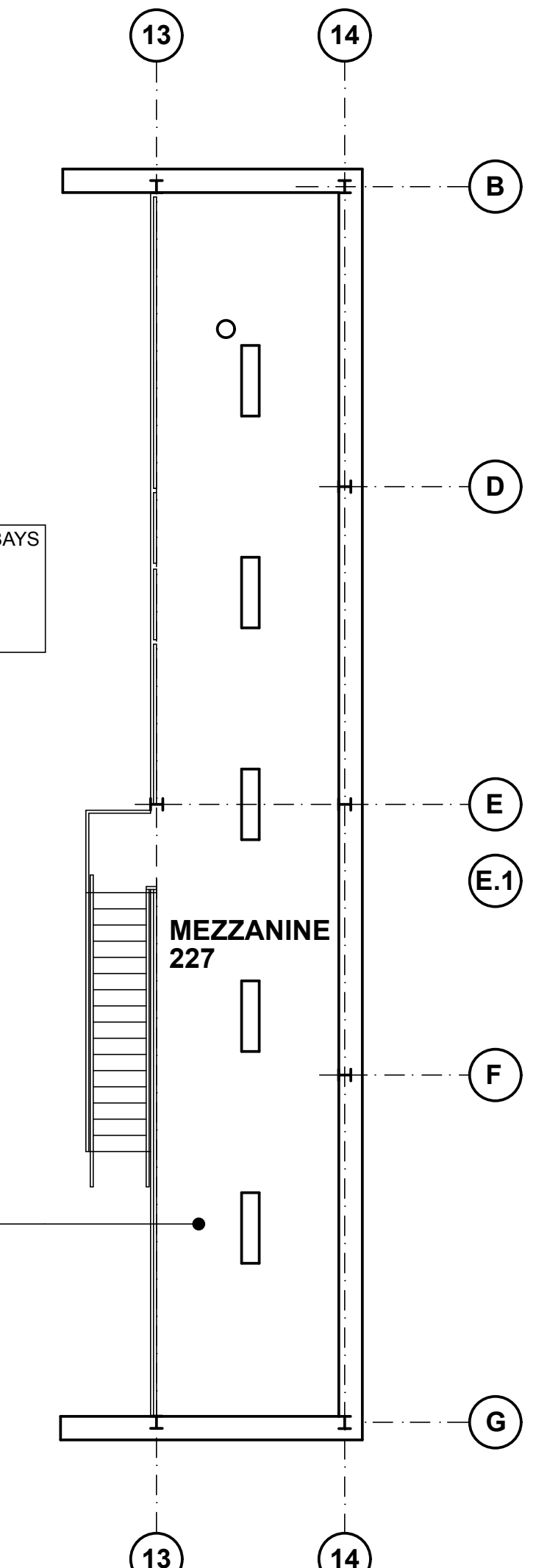
CONTIN. PAINTABLE SEALANT



FIRST FLOOR REFLEC. CLG. PLAN 1/8" = 1'-0" **01**



MEZZANINE REFLEC. CLG. PLAN 1/8" = 1'-0" **03**



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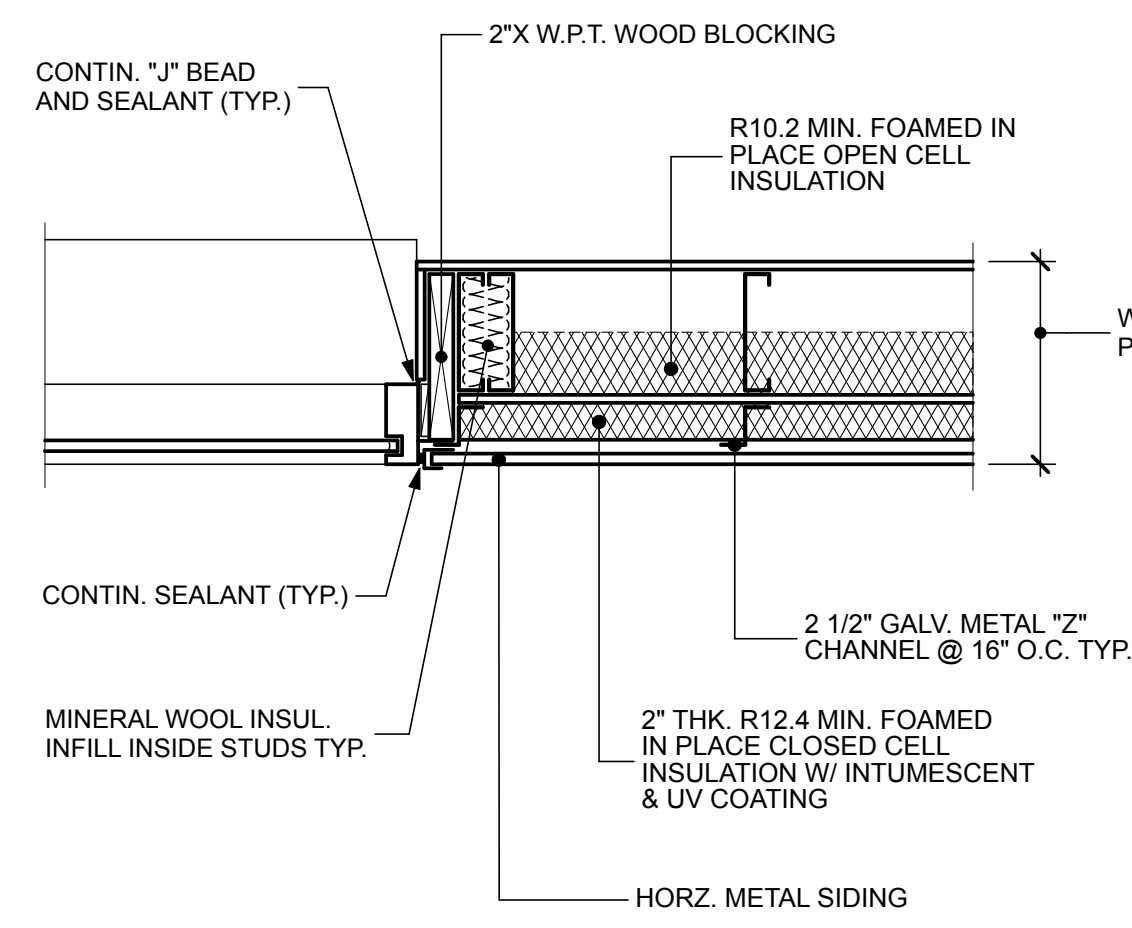
RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY

TITLE: **REFLECTED CEILING PLANS**

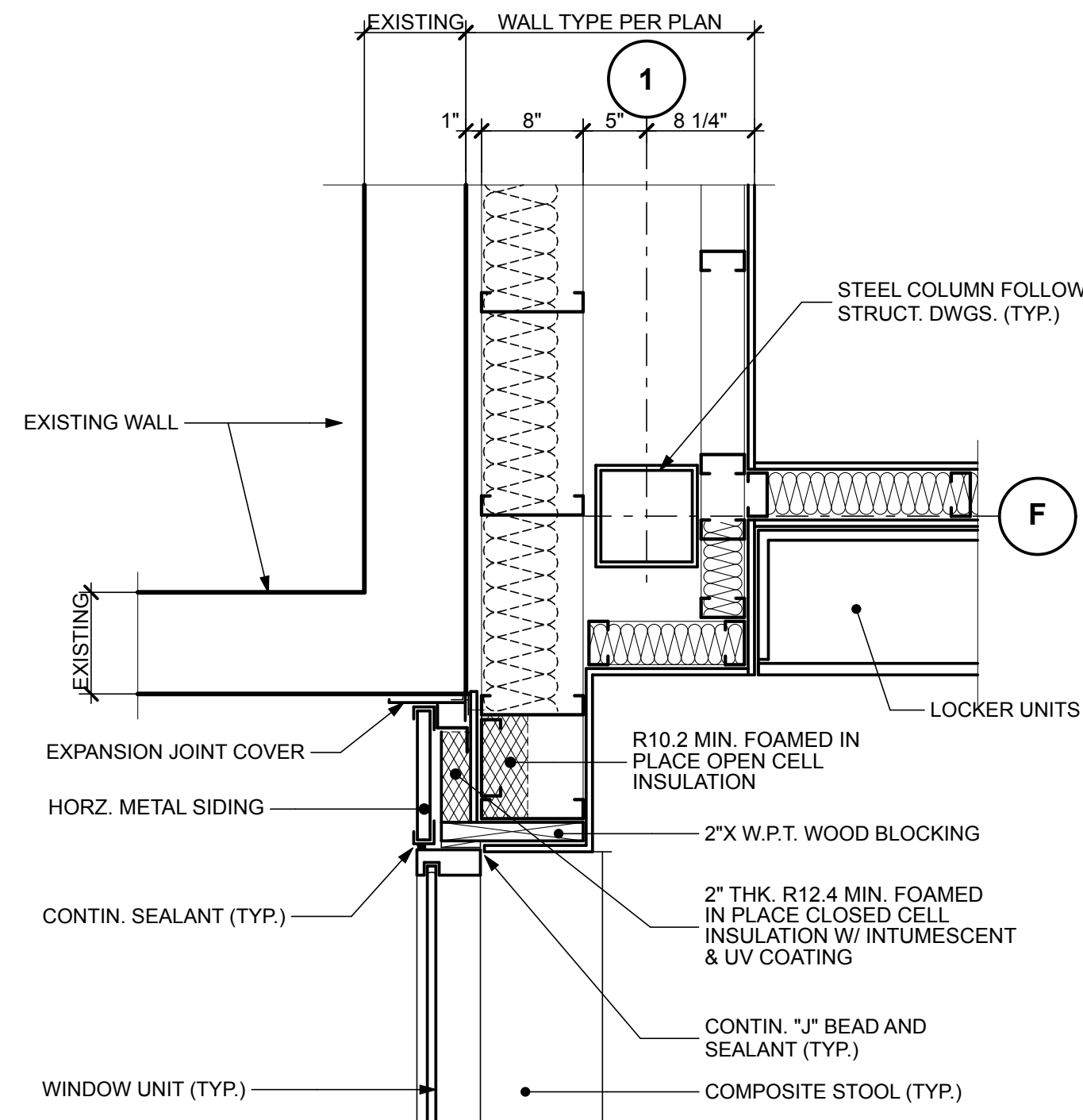
DRAWING DATE: **01 JULY 2020**
REVISION DATE:

DRAWN BY: **RR**
COMMISSION NO.: **5475B**

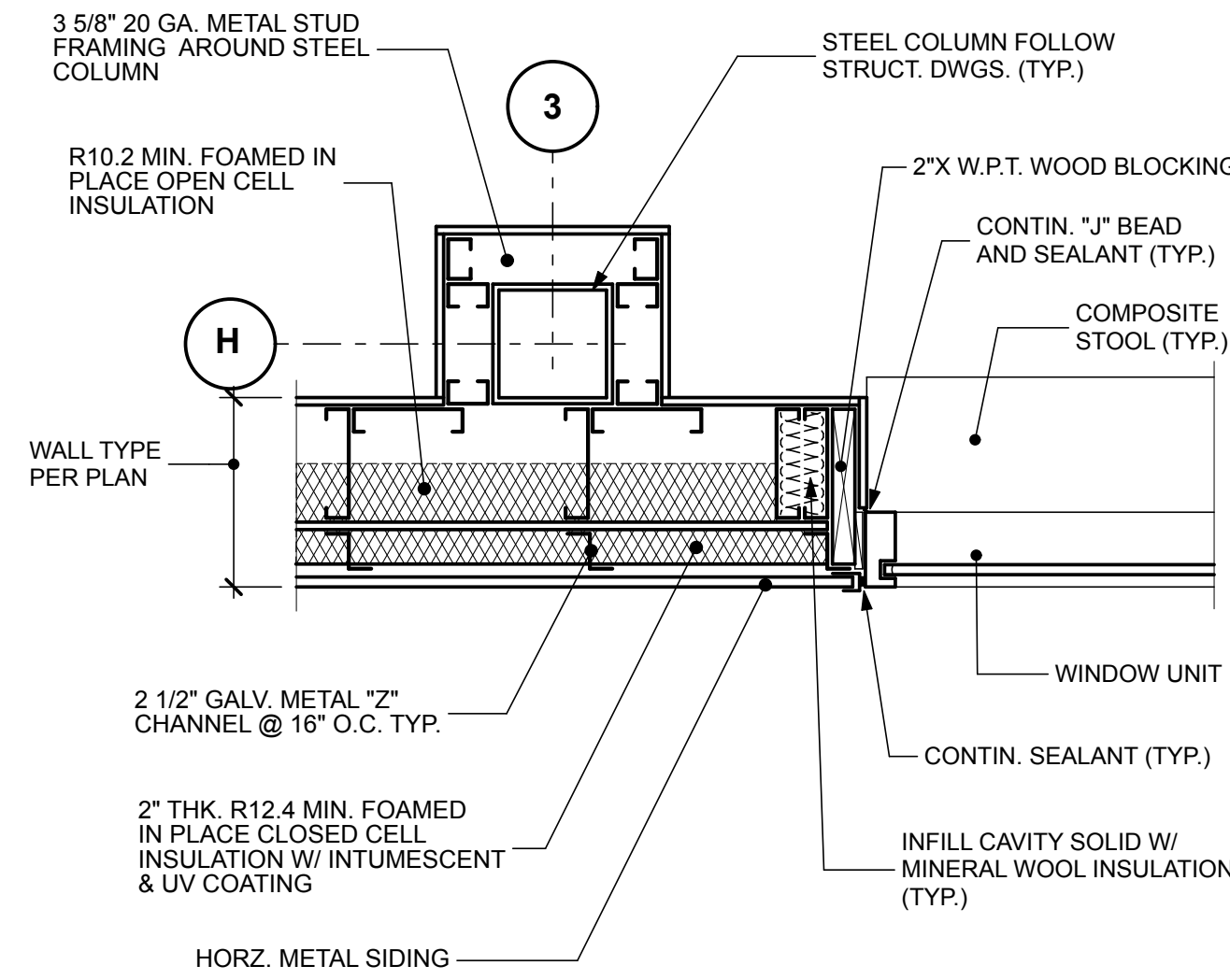
A2.13
23 OF 37



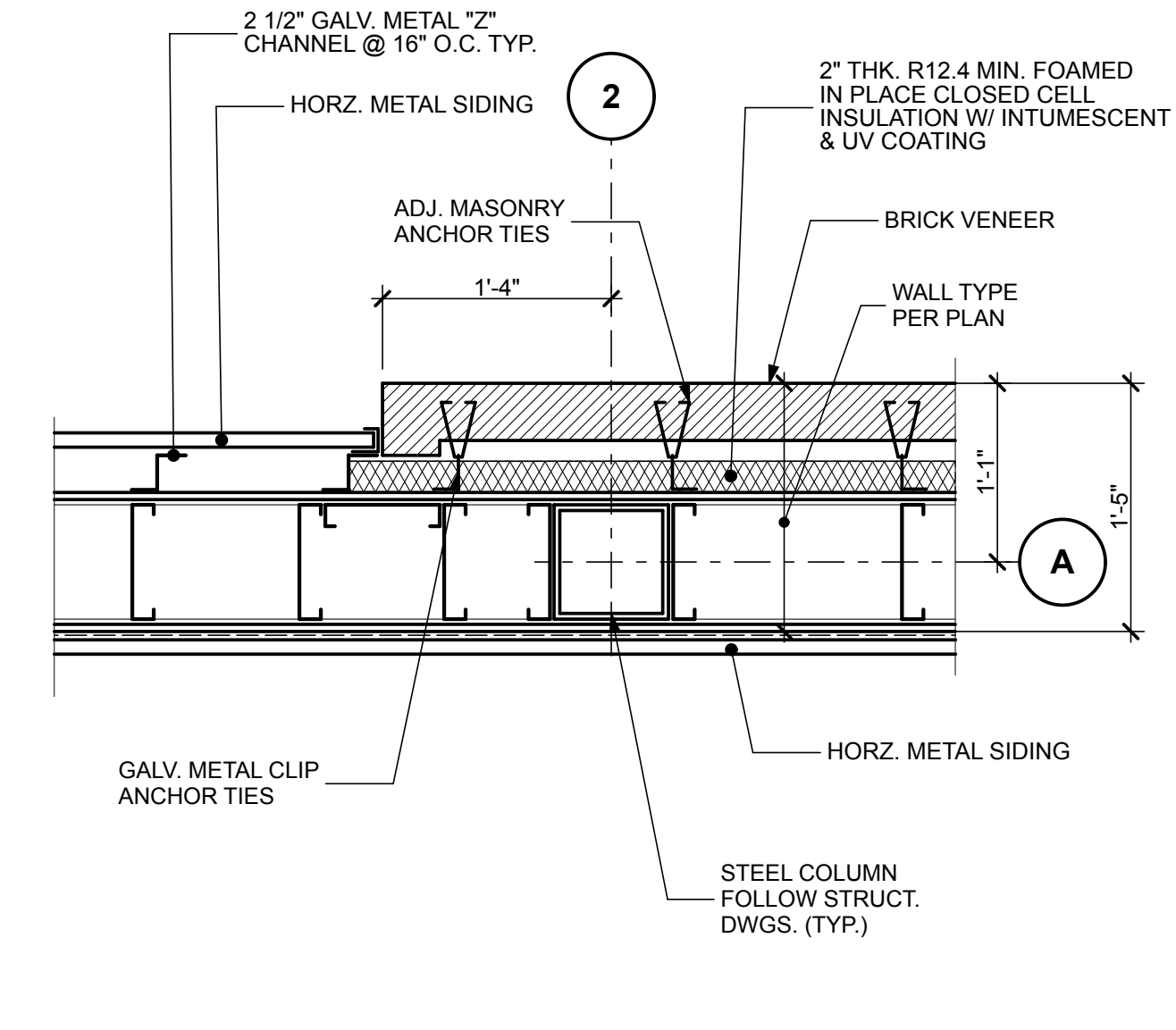
PLAN DETAIL 1" = 1'-0" 16



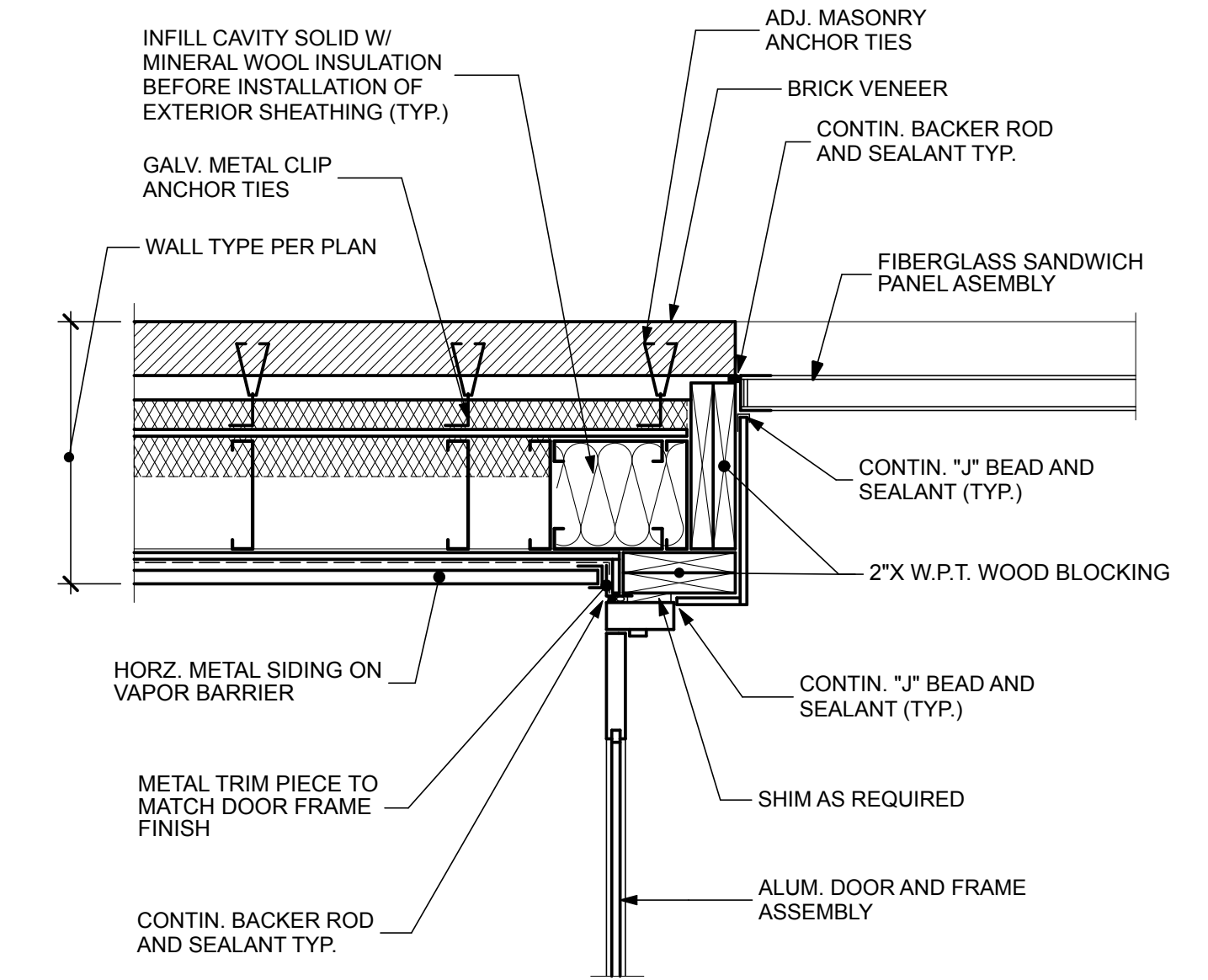
PLAN DETAIL 1" = 1'-0" 19



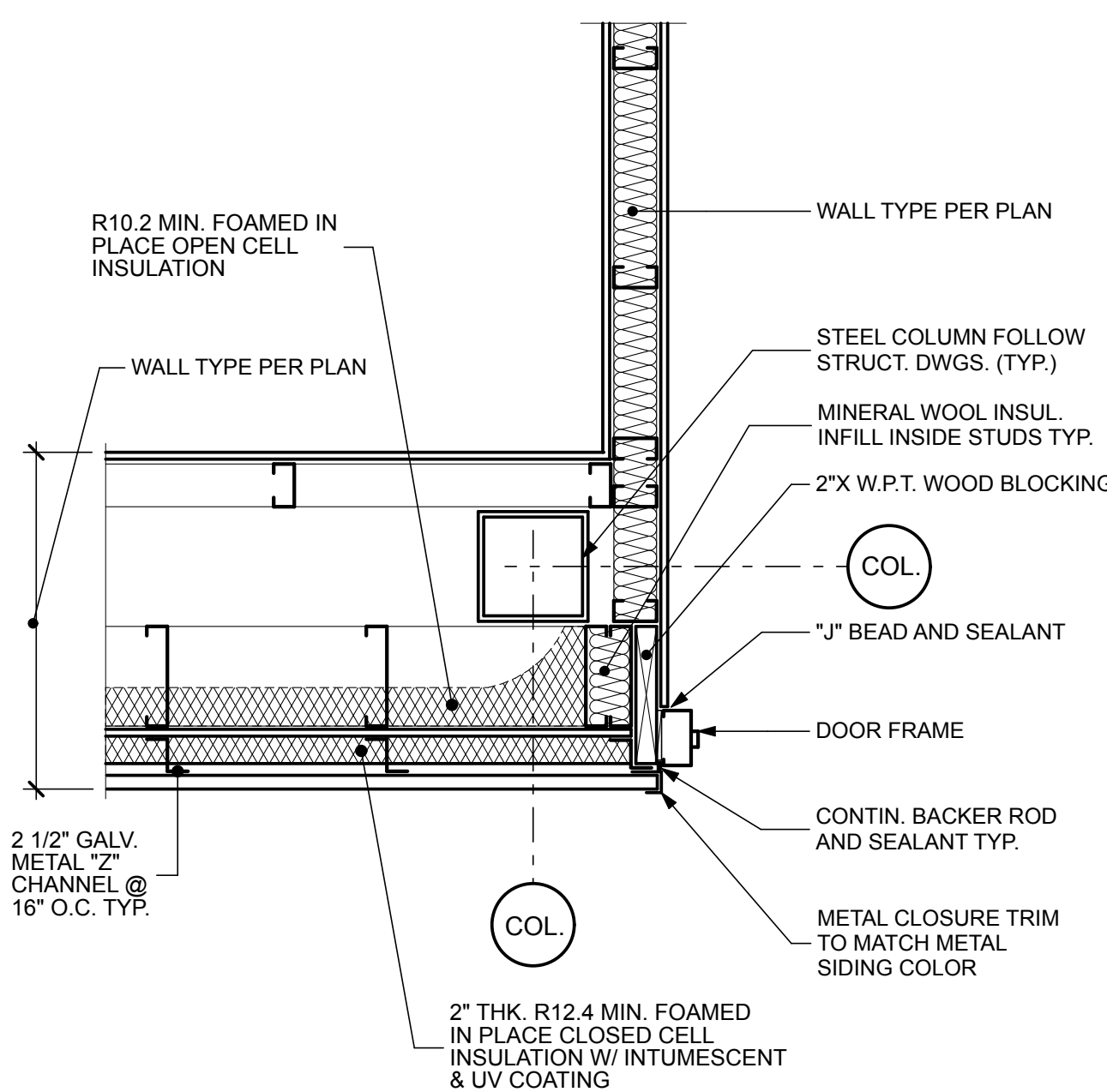
PLAN DETAIL 1" = 1'-0" 22



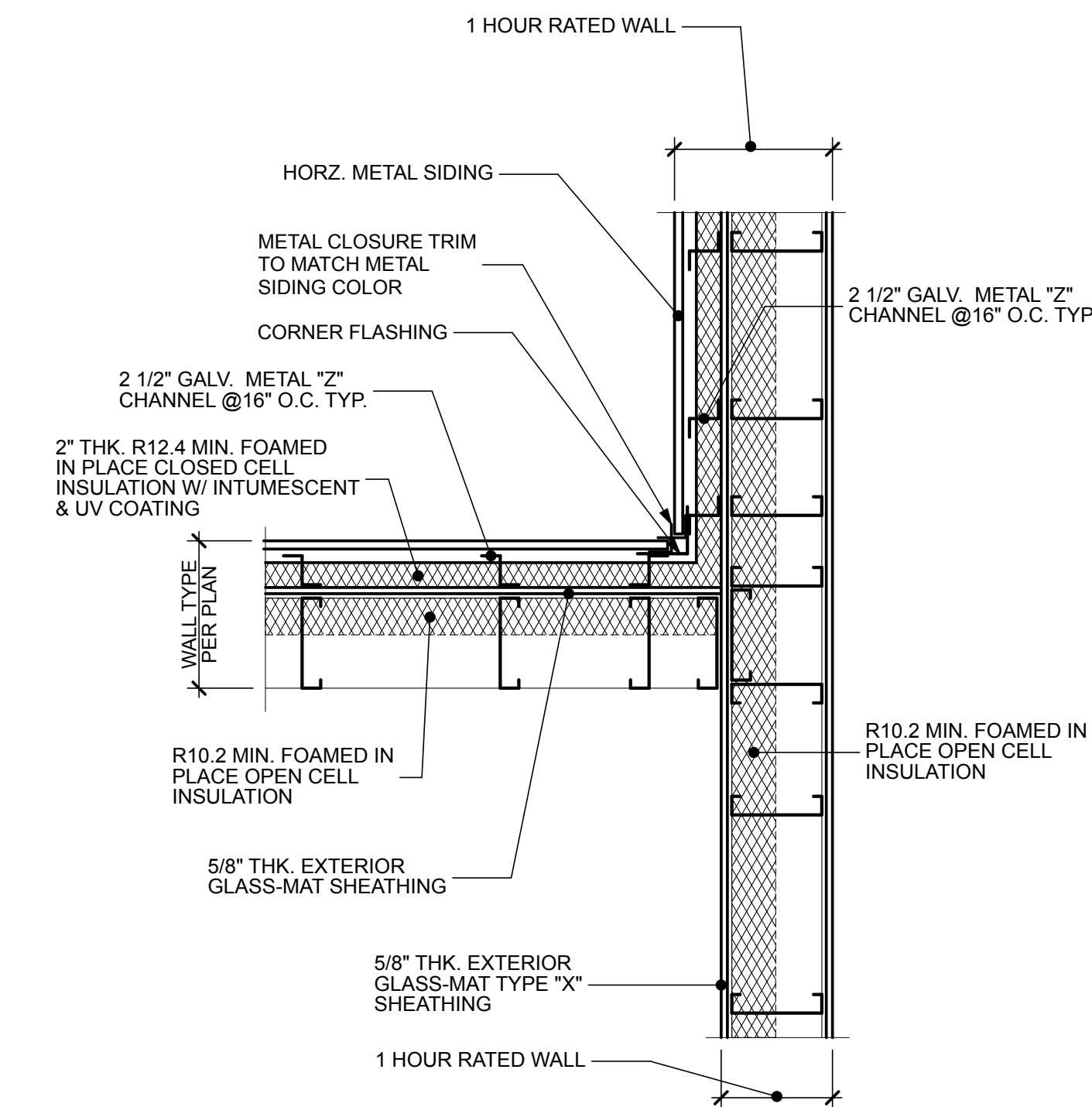
PLAN DETAIL 1" = 1'-0" 25



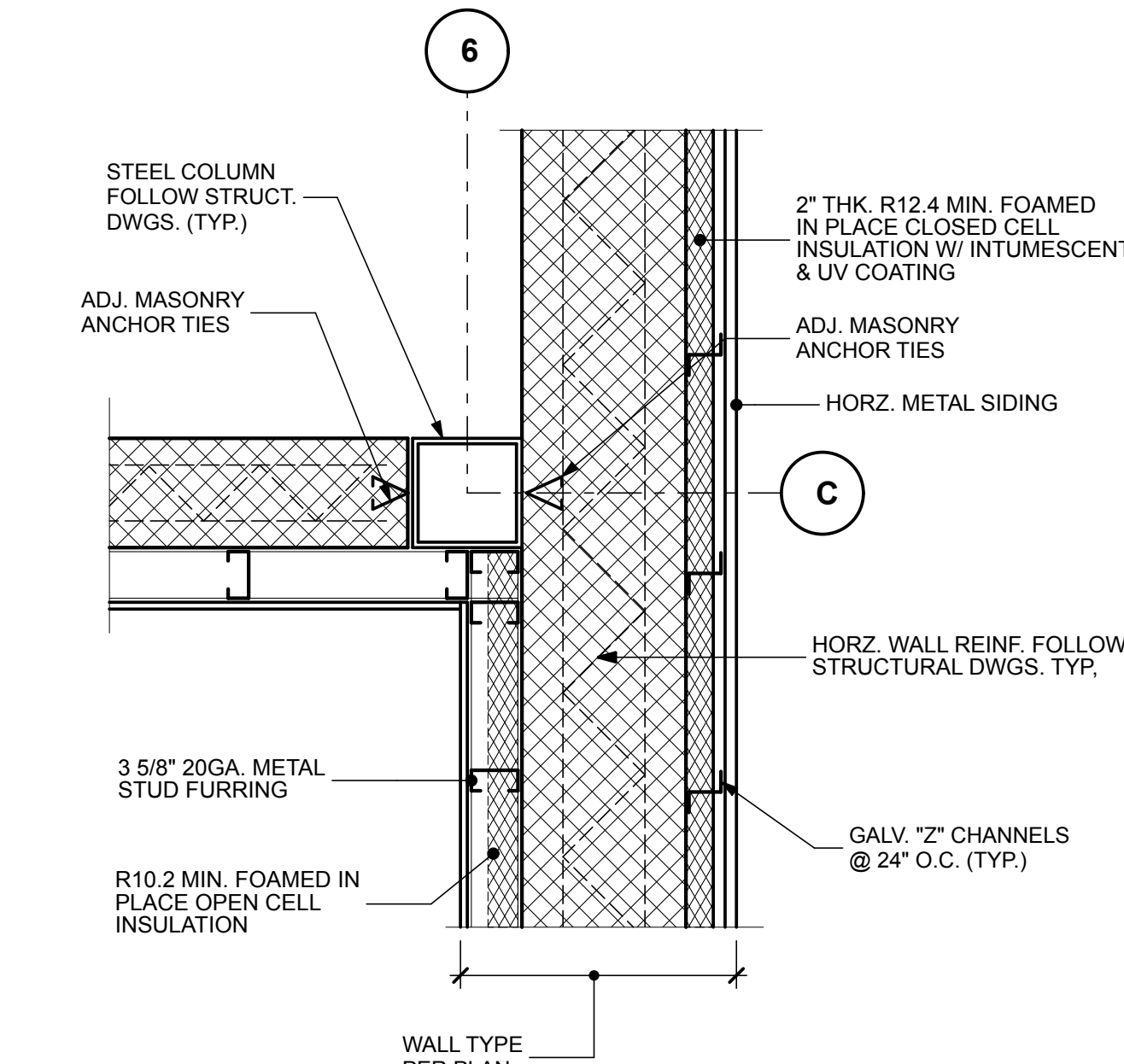
PLAN DETAIL 1" = 1'-0" 28



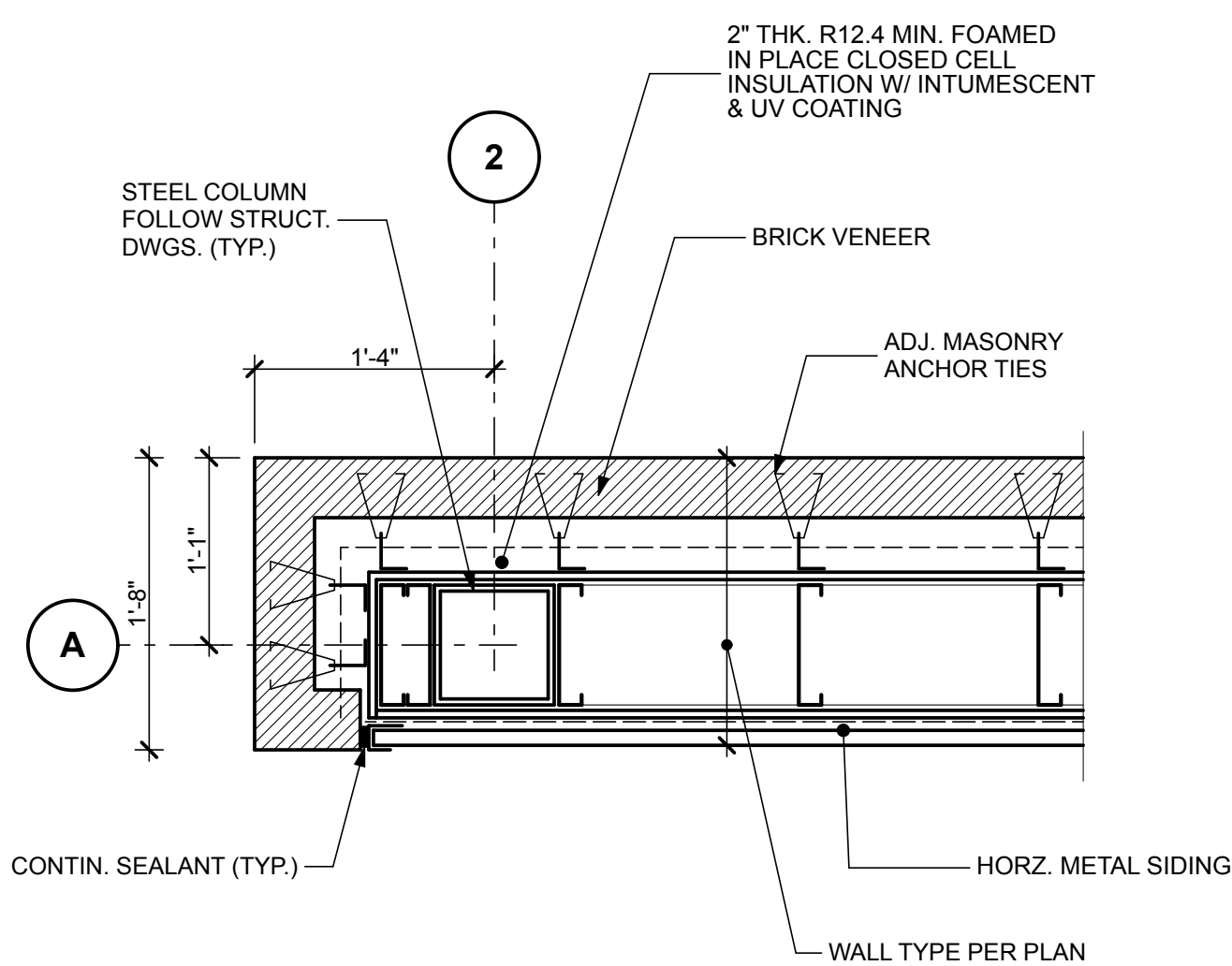
PLAN DETAIL 1" = 1'-0" 17



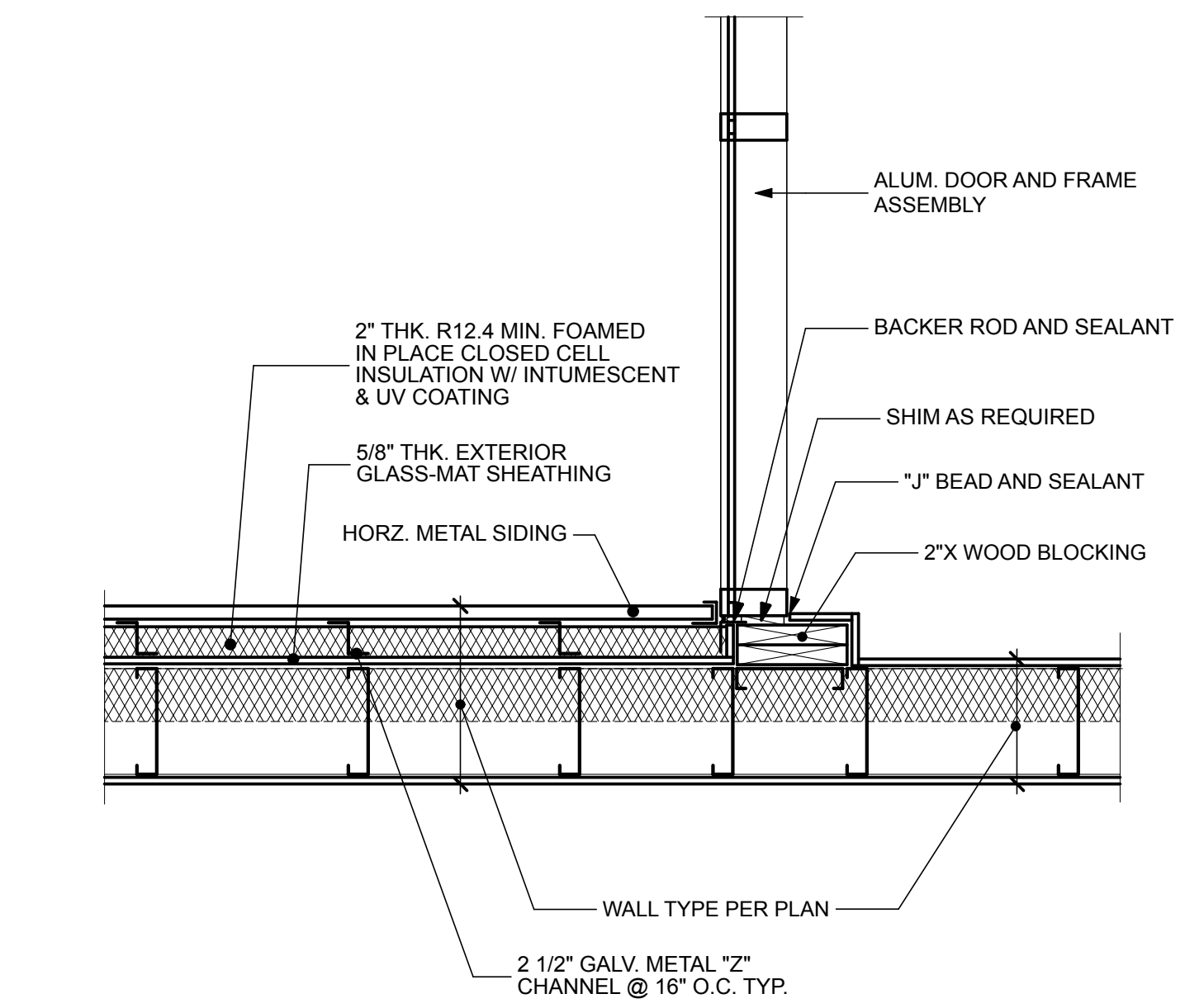
PLAN DETAIL 1" = 1'-0" 20



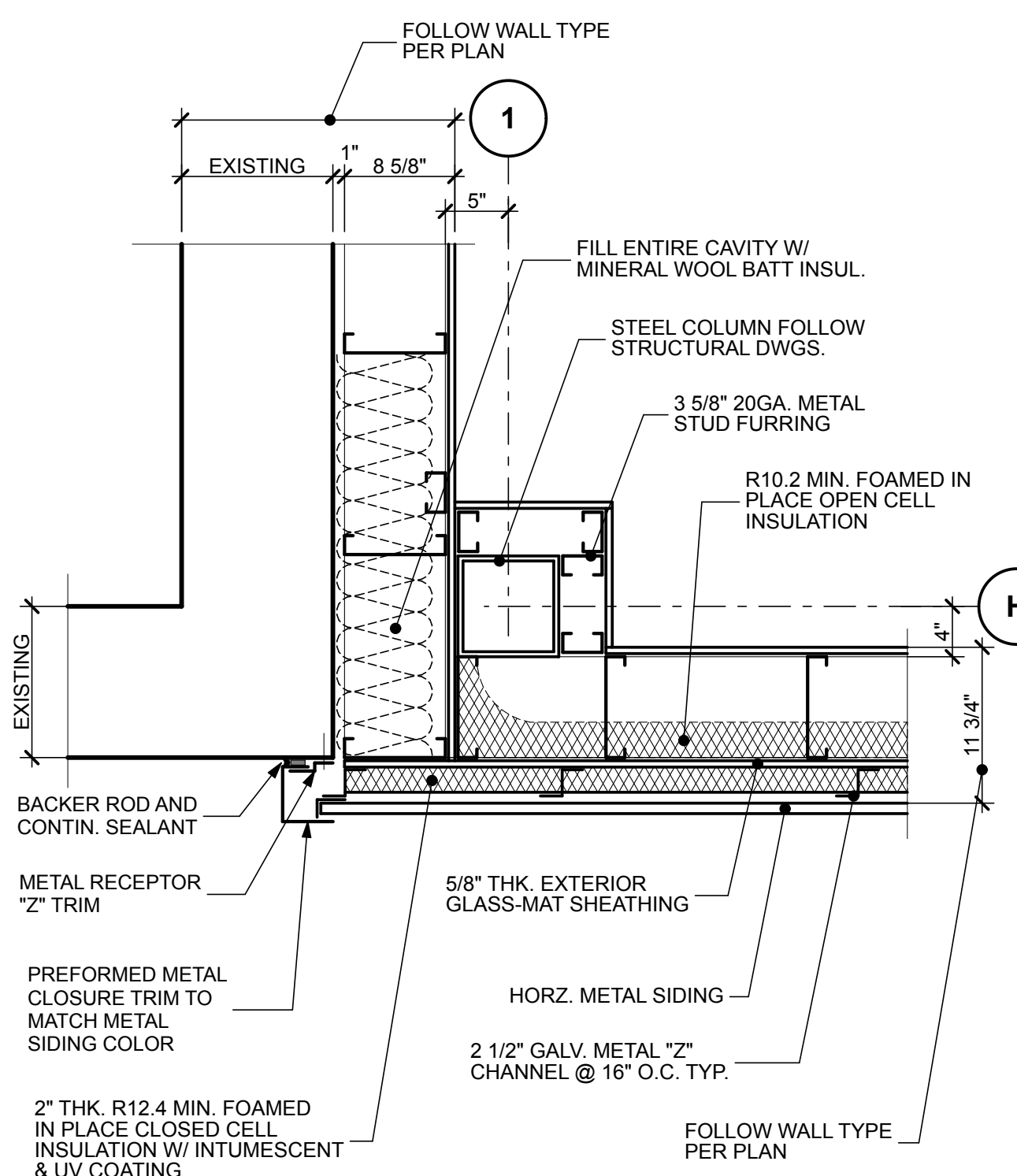
PLAN DETAIL 1" = 1'-0" 23



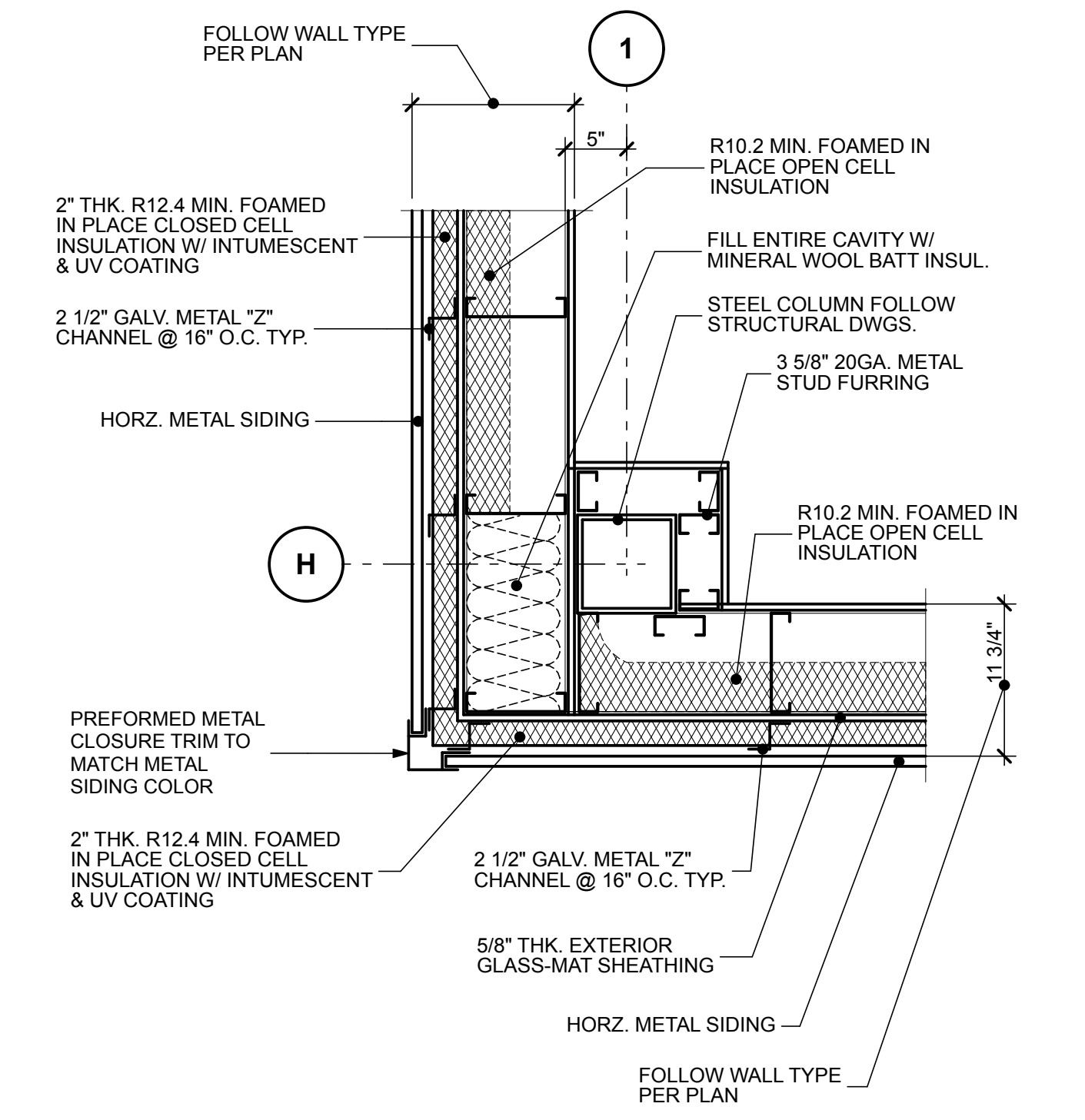
PLAN DETAIL 1" = 1'-0" 26



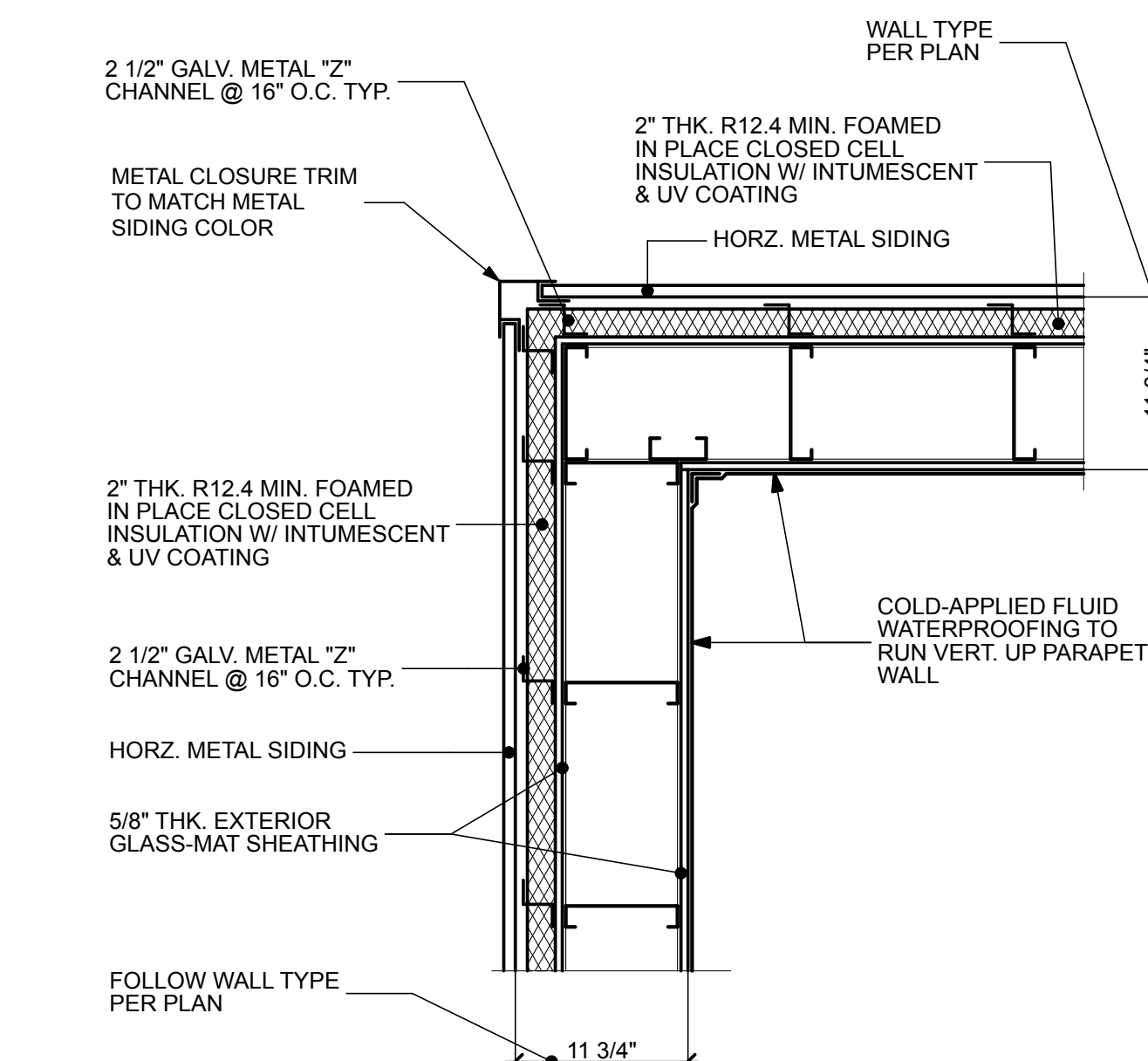
PLAN DETAIL 1" = 1'-0" 29



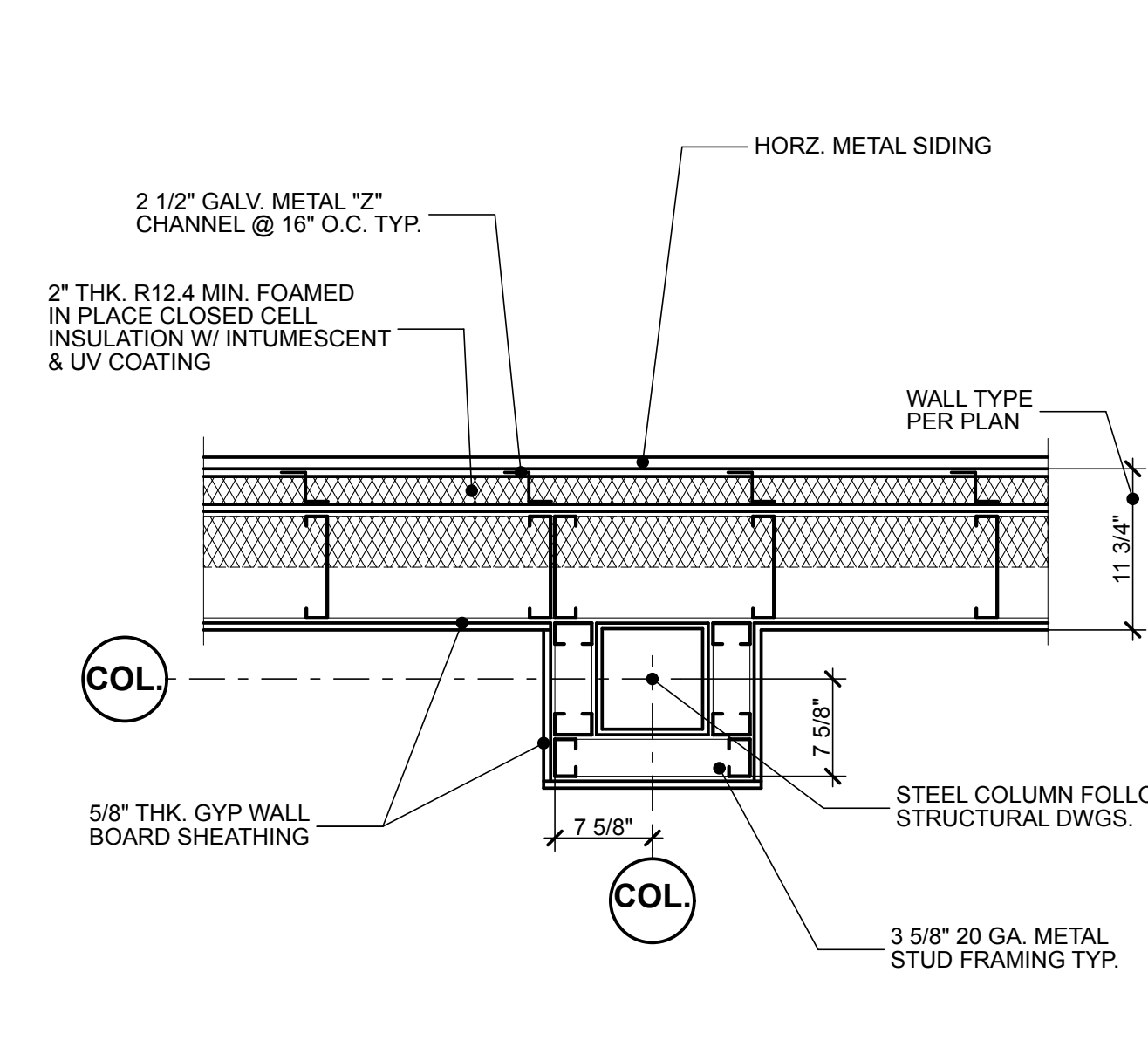
PLAN DETAIL 1" = 1'-0" 18



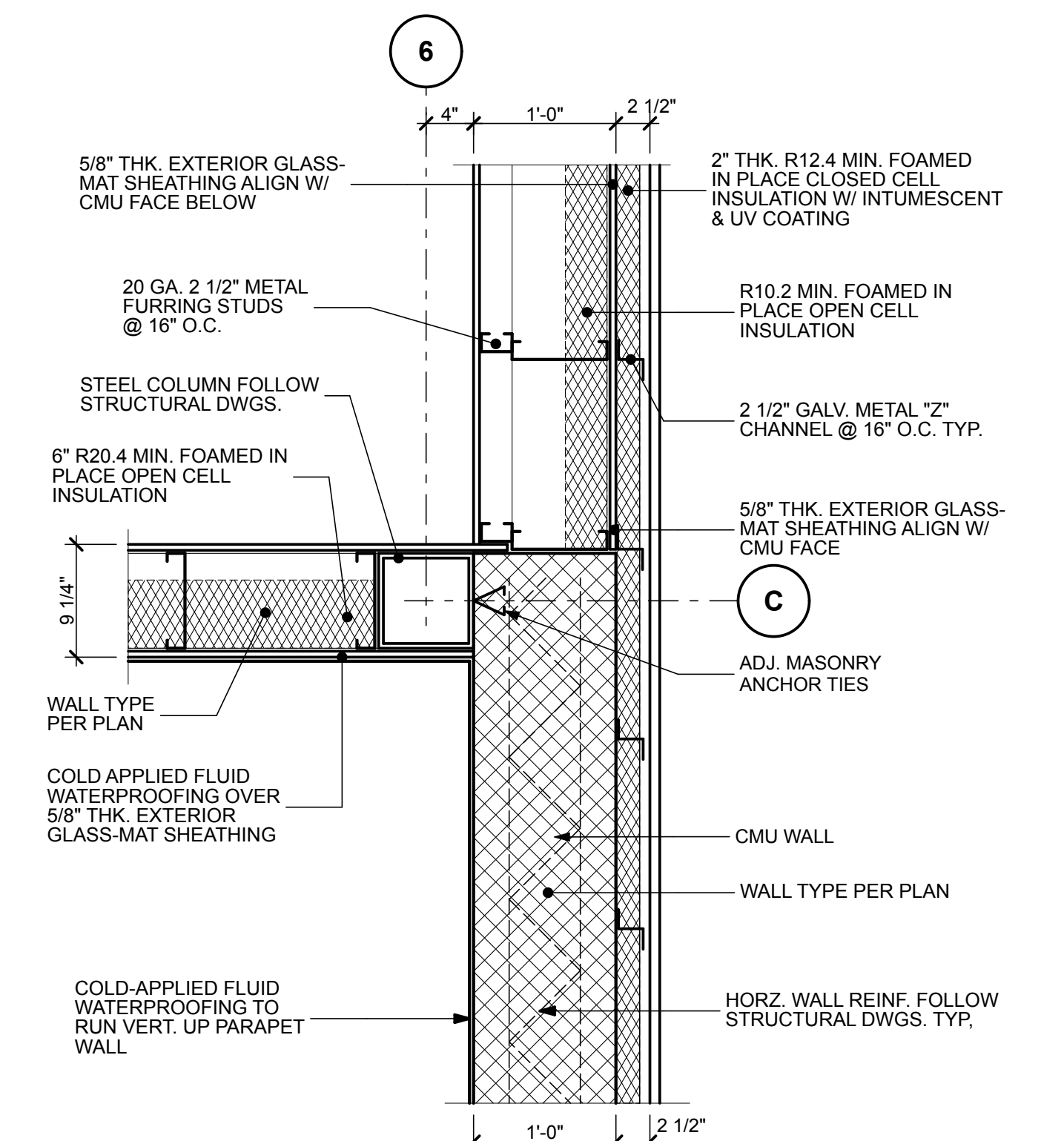
PLAN DETAIL 1" = 1'-0" 21



PLAN DETAIL 1" = 1'-0" 24



PLAN DETAIL 1" = 1'-0" 27



PLAN DETAIL 1" = 1'-0" 30

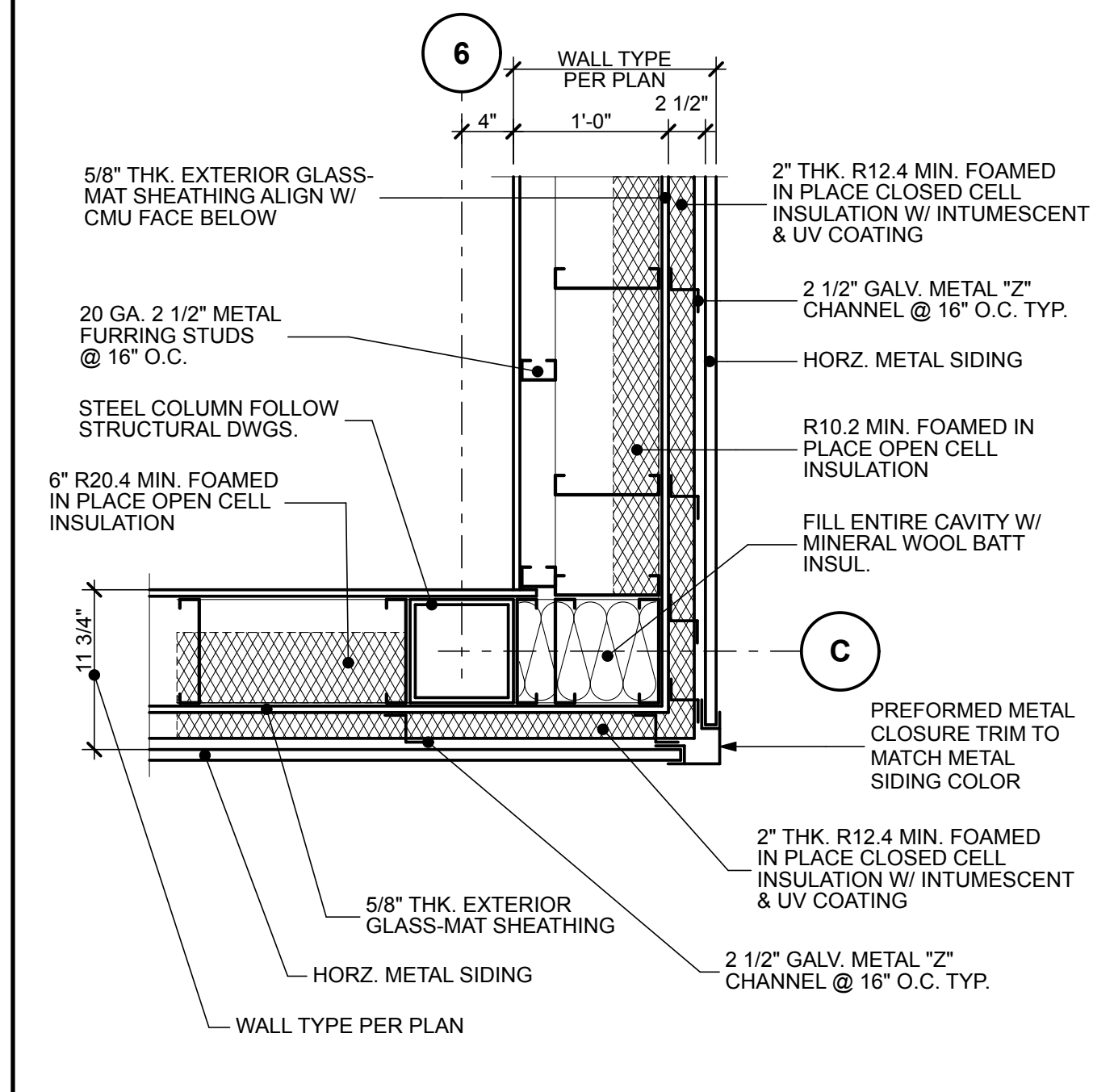
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21A00912100

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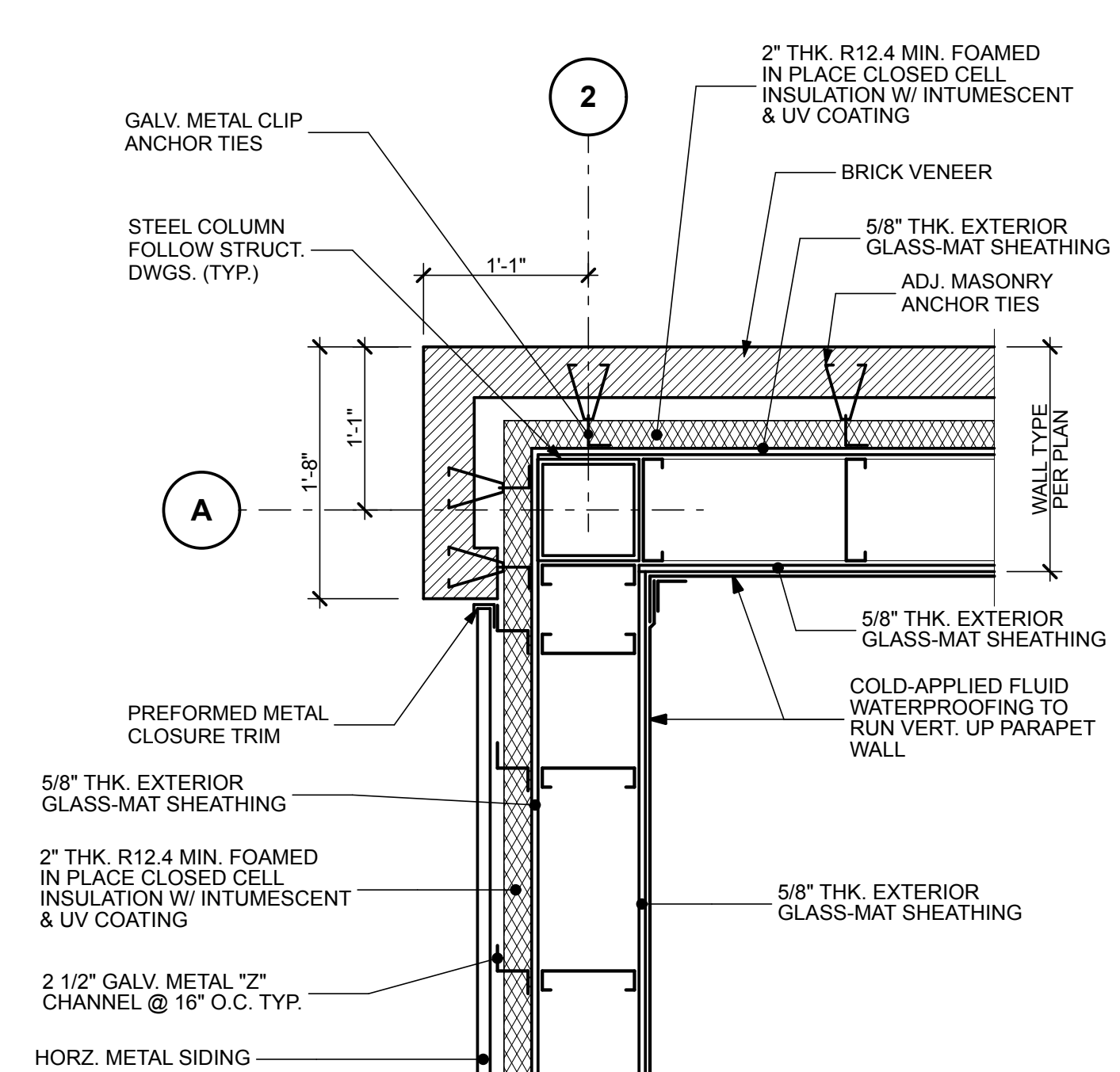
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MOUNT HOLLY, NEW JERSEY

TITLE **PLAN DETAILS**

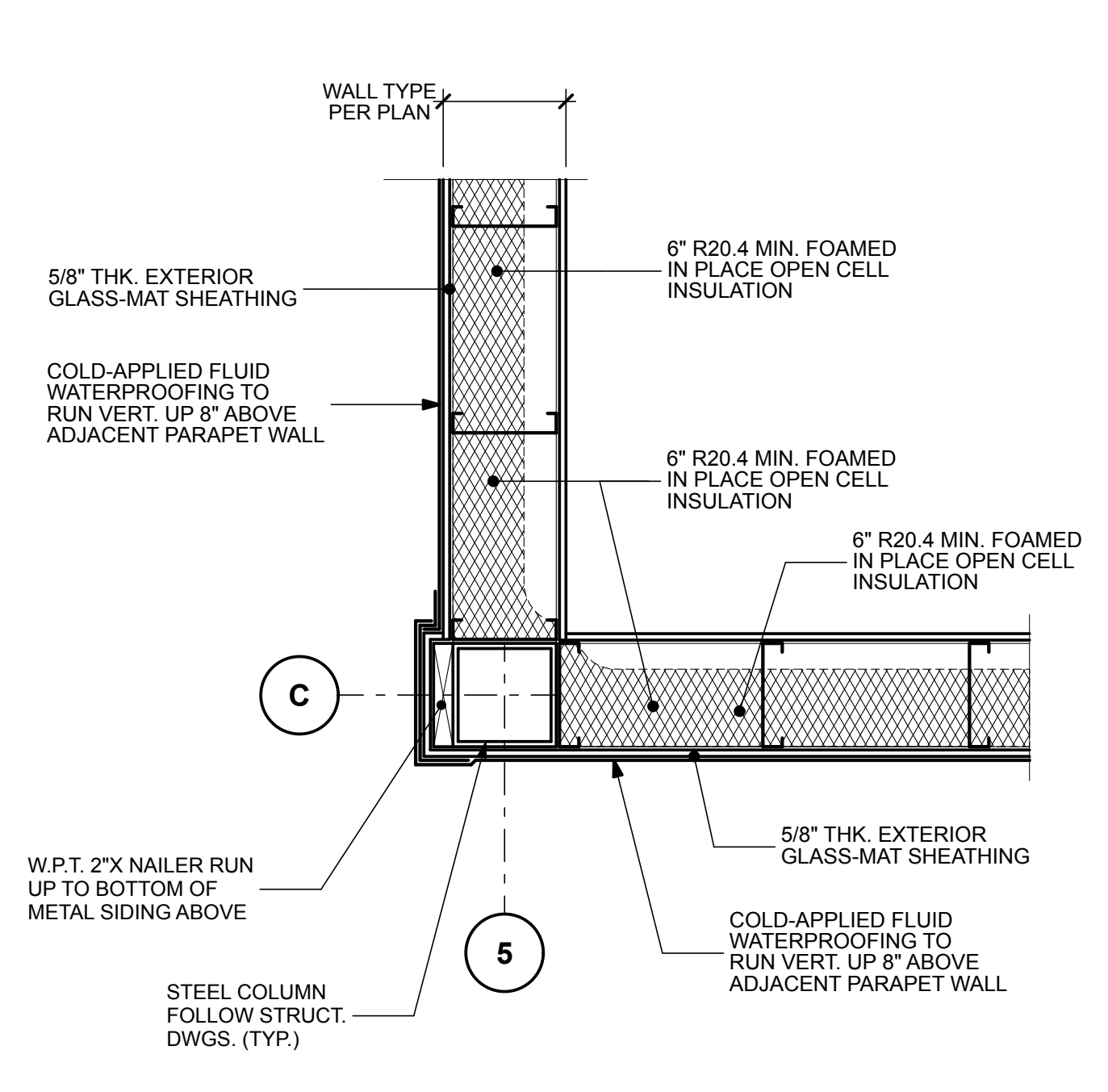
DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	RR
COMMISSION NO.:	5475B



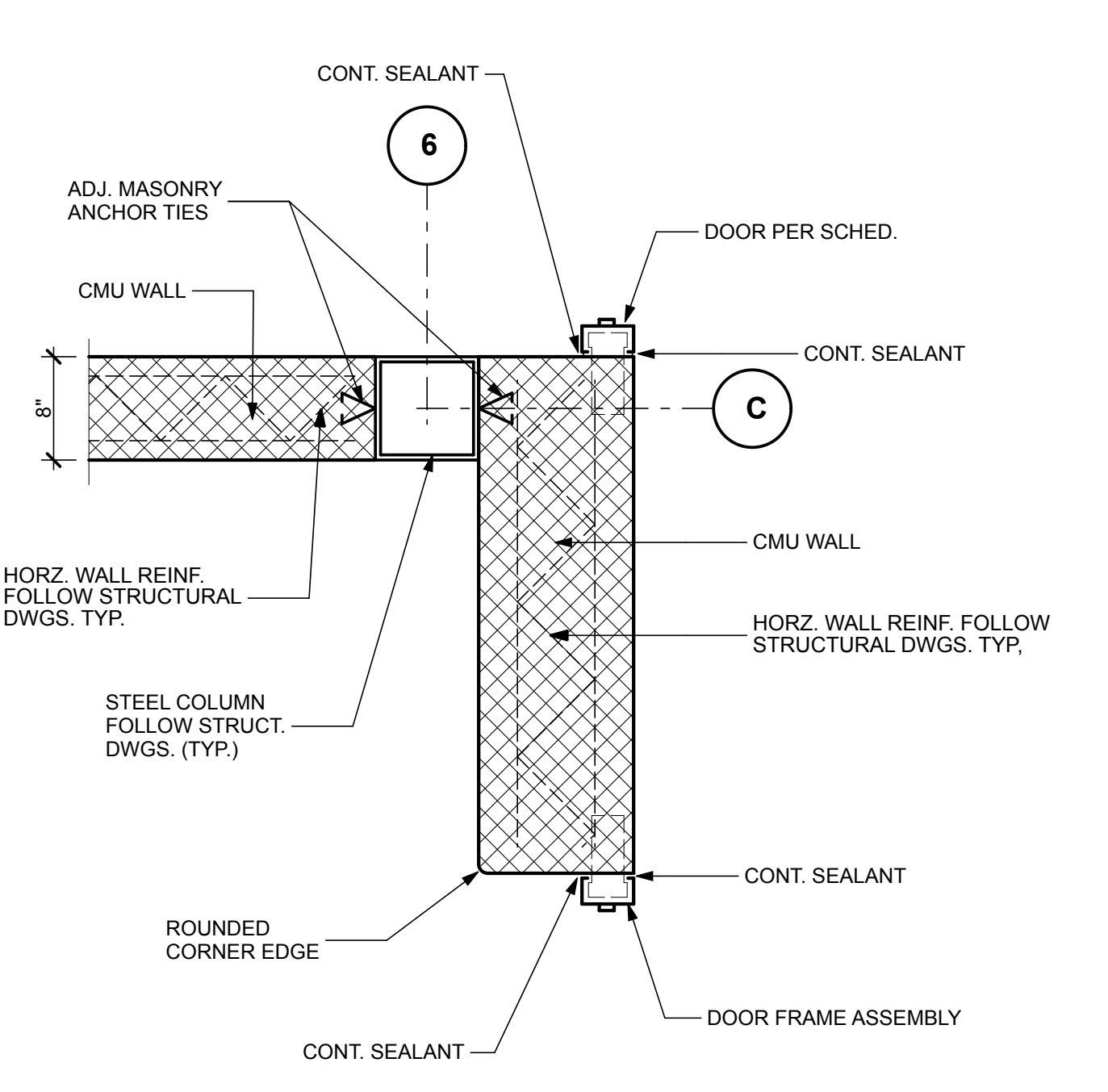
PLAN DETAIL 1" = 1'-0" 31



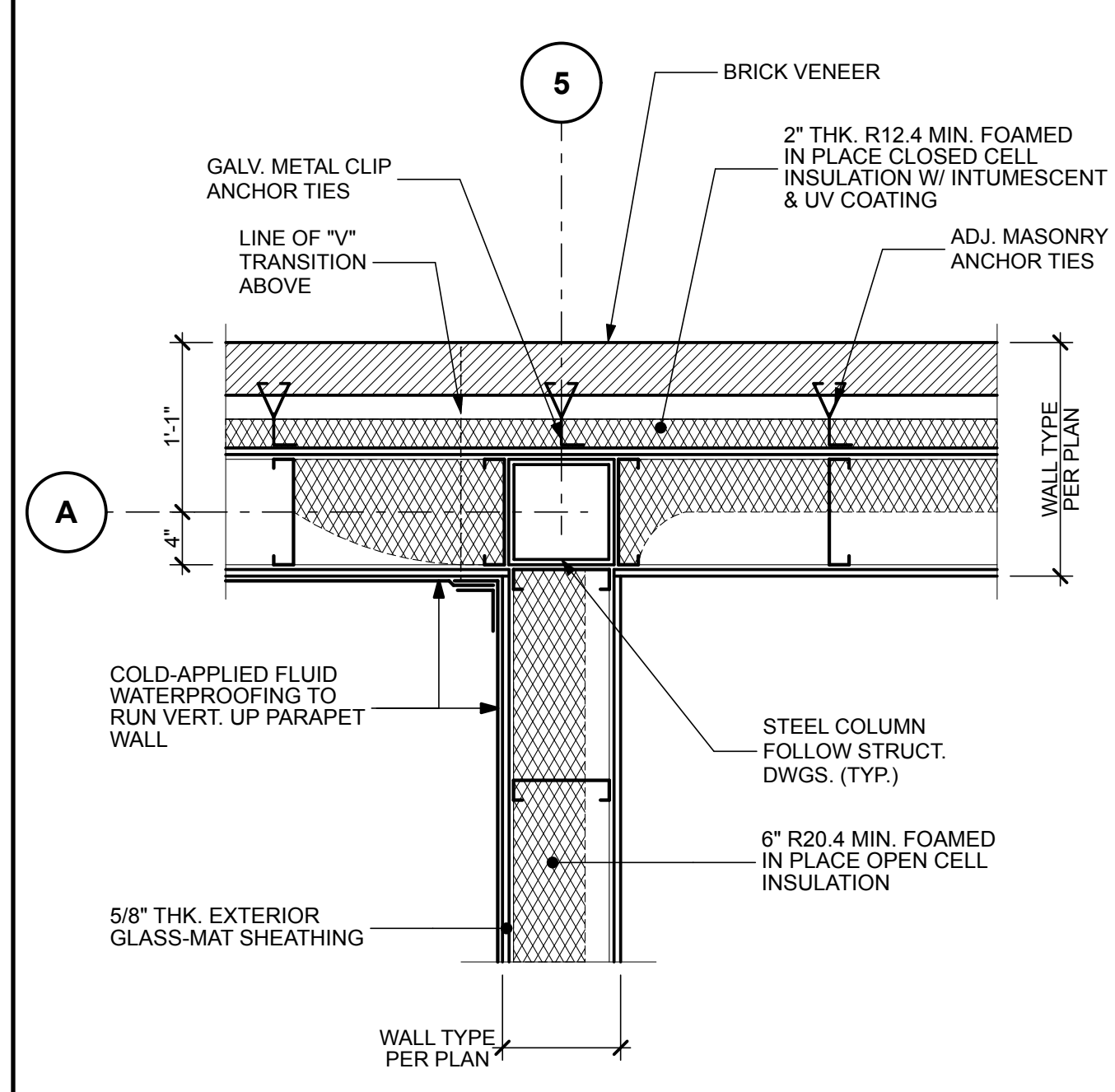
PLAN DETAIL 1" = 1'-0" 34



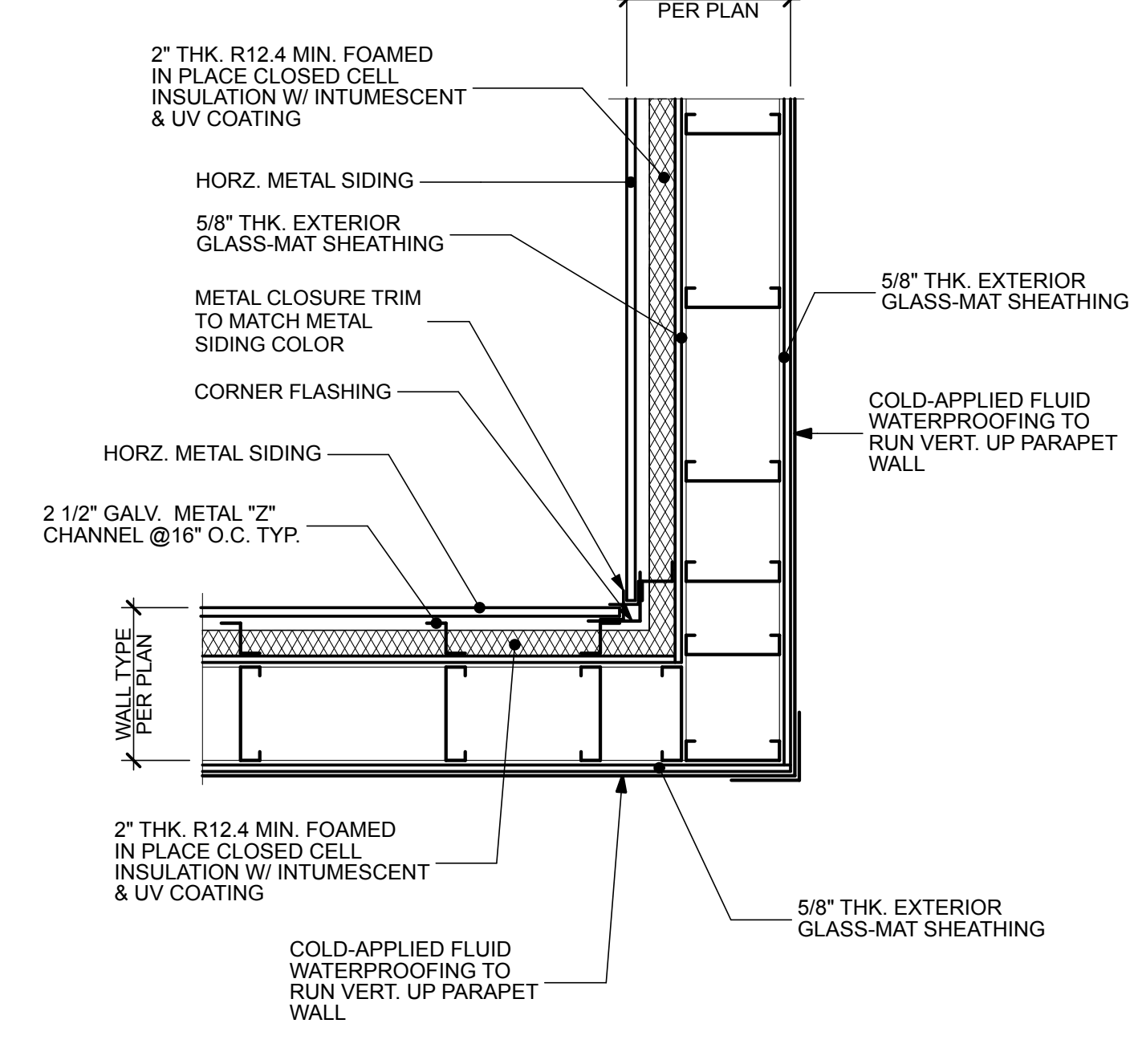
PLAN DETAIL 1" = 1'-0" 37



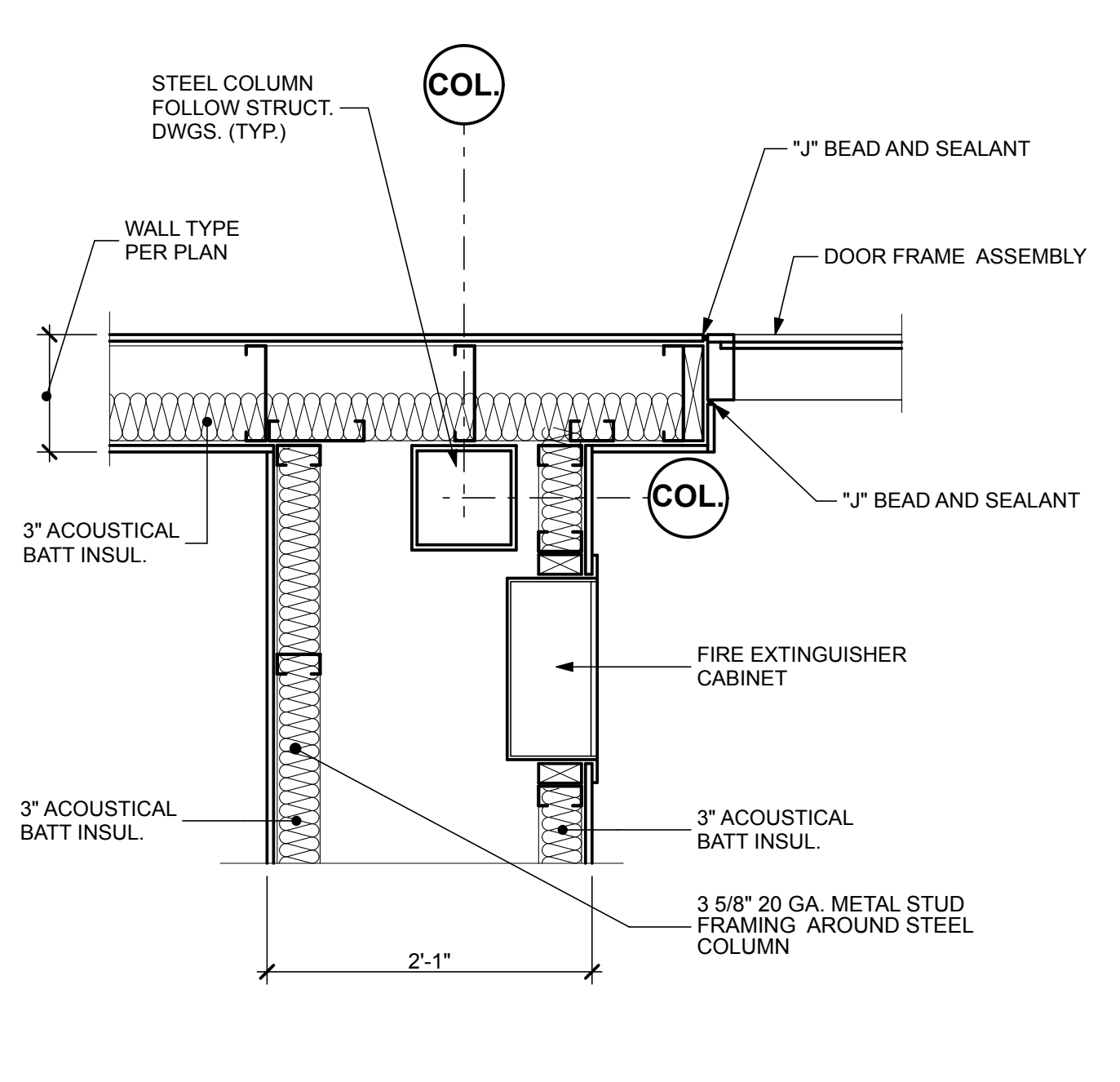
PLAN DETAIL 1" = 1'-0" 40



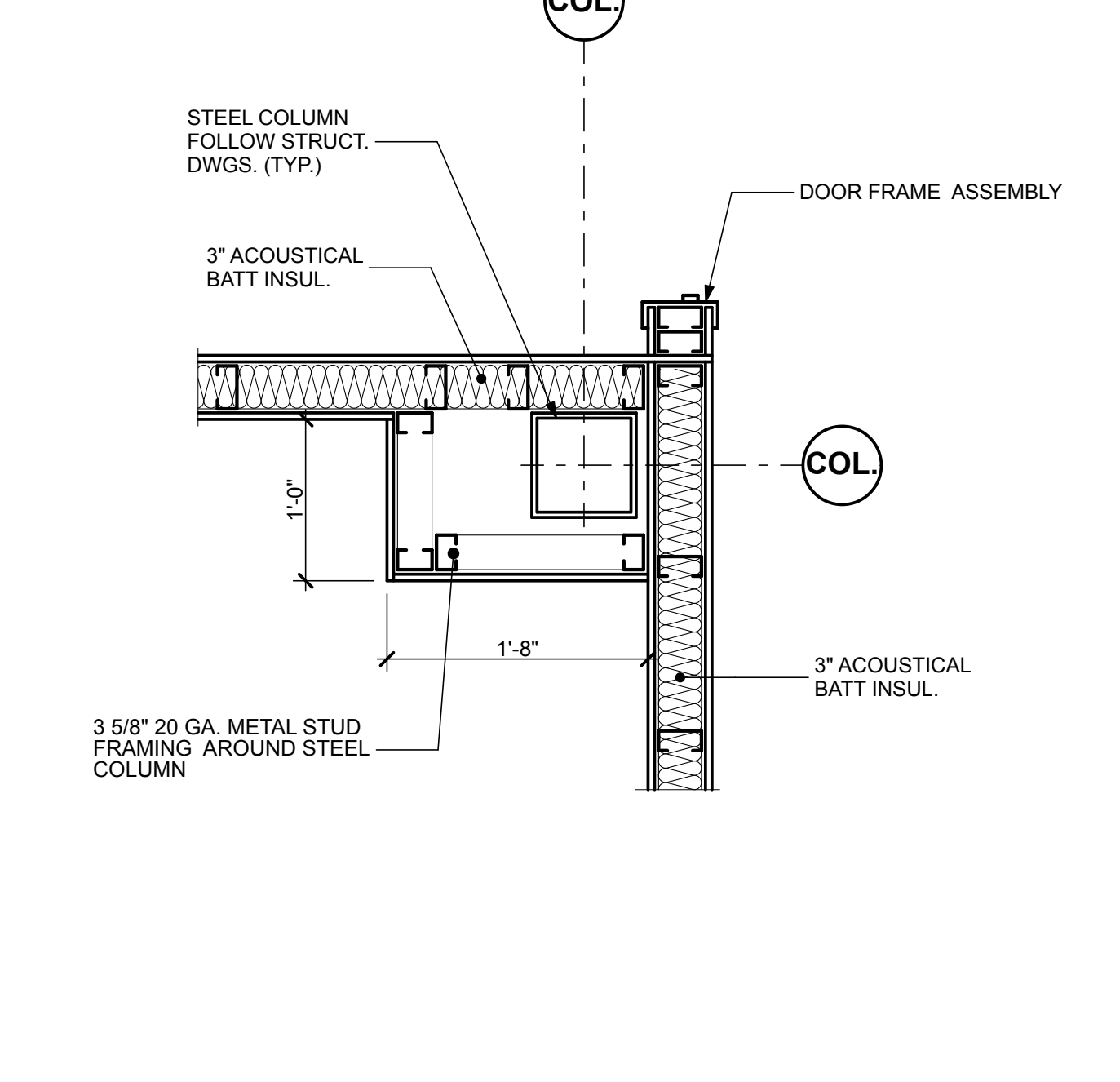
PLAN DETAIL 1" = 1'-0" 32



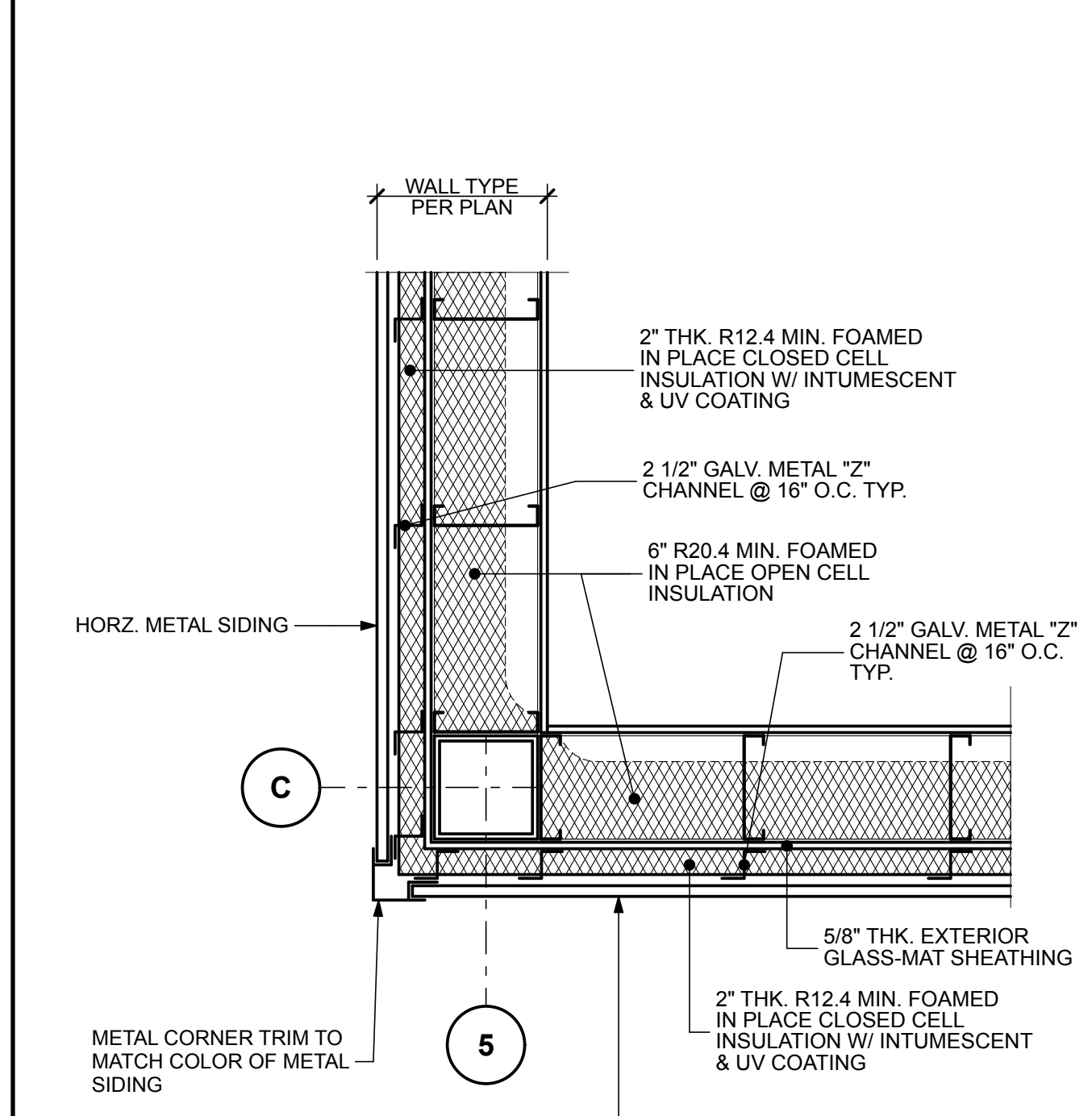
PLAN DETAIL 1" = 1'-0" 35



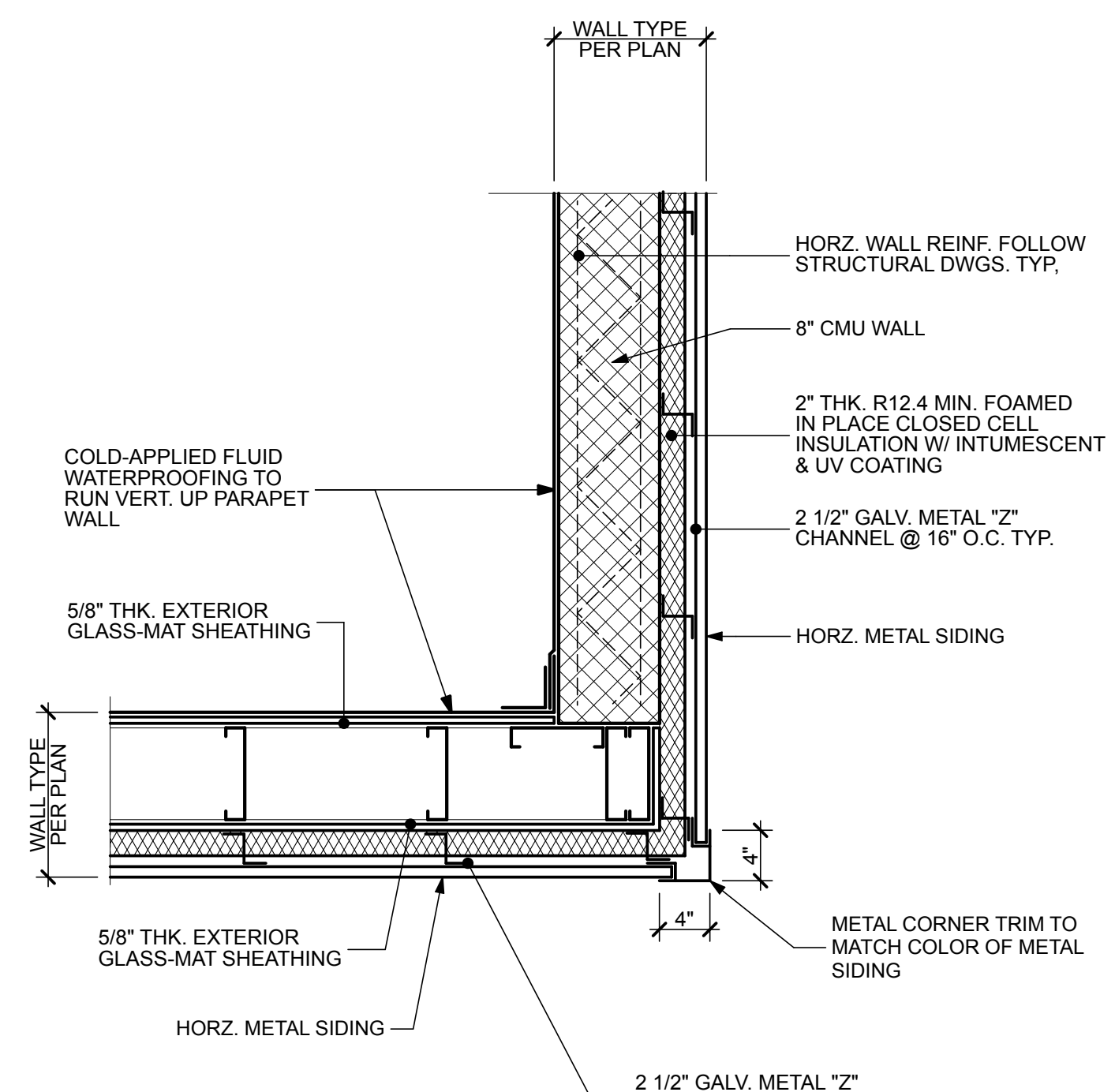
PLAN DETAIL 1" = 1'-0" 38



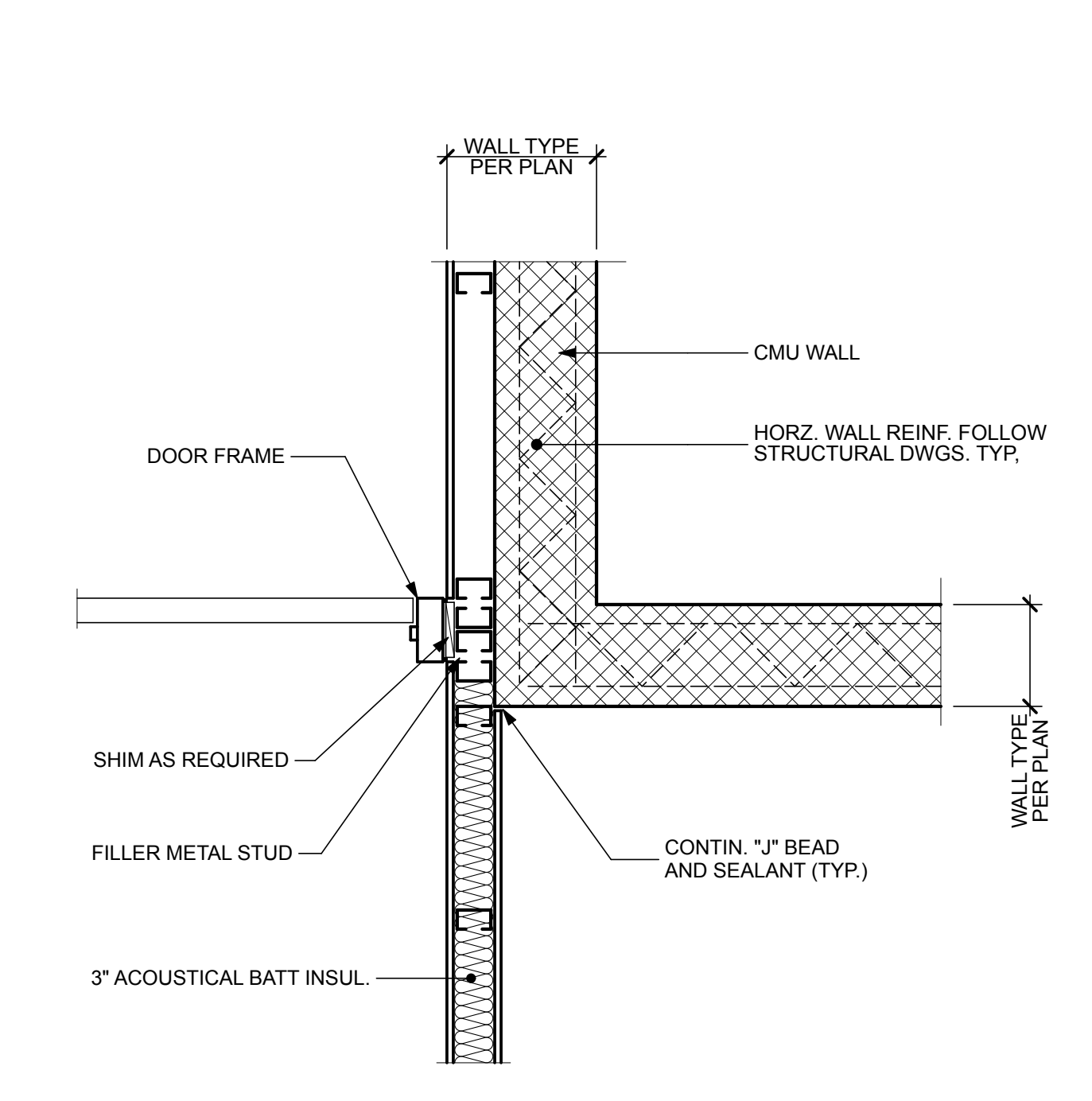
PLAN DETAIL 1" = 1'-0" 41



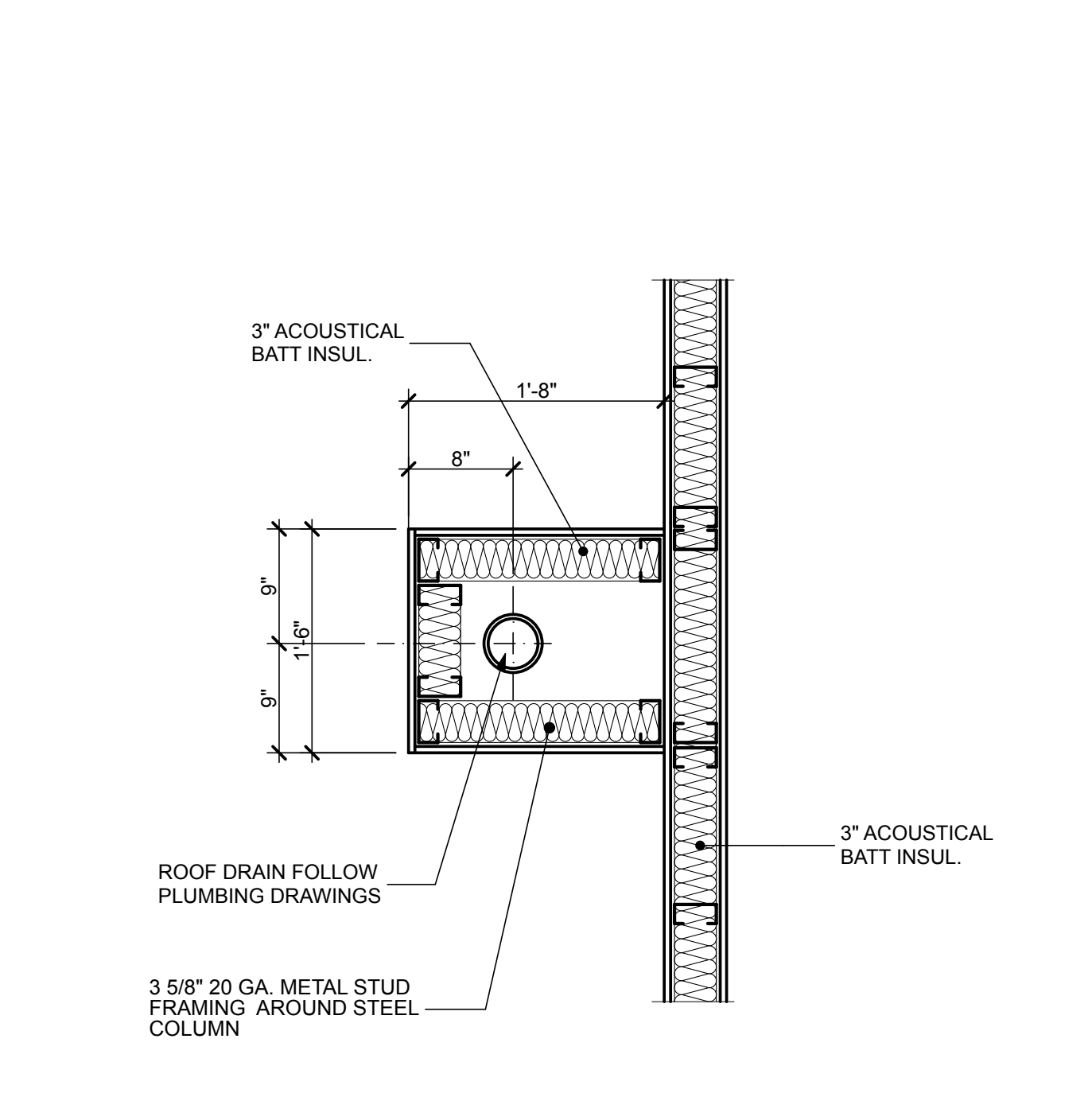
PLAN DETAIL 1" = 1'-0" 33



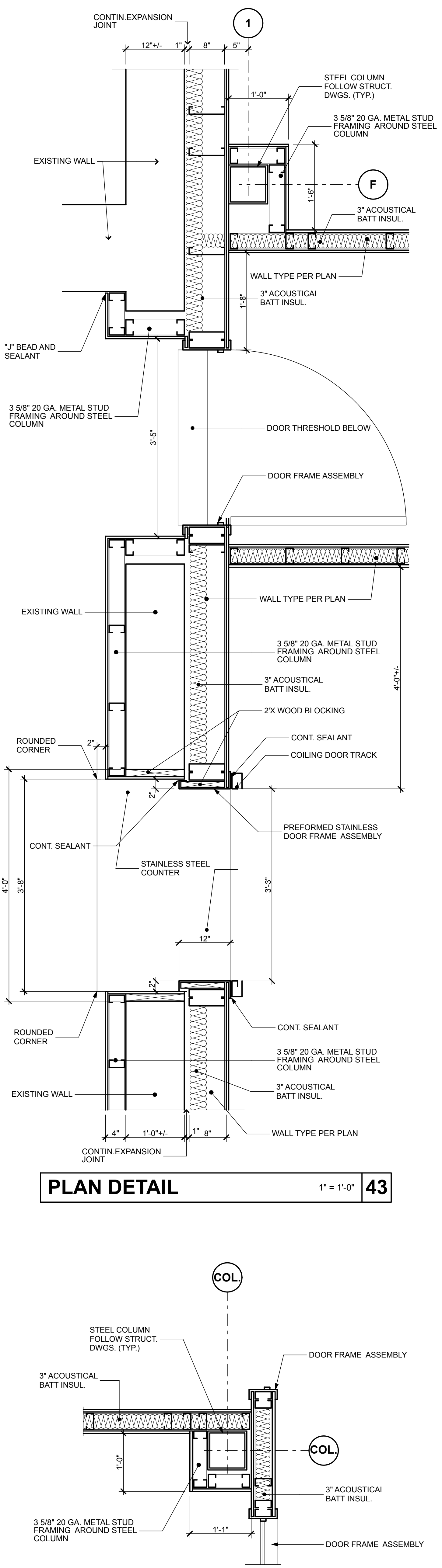
PLAN DETAIL 1" = 1'-0" 36



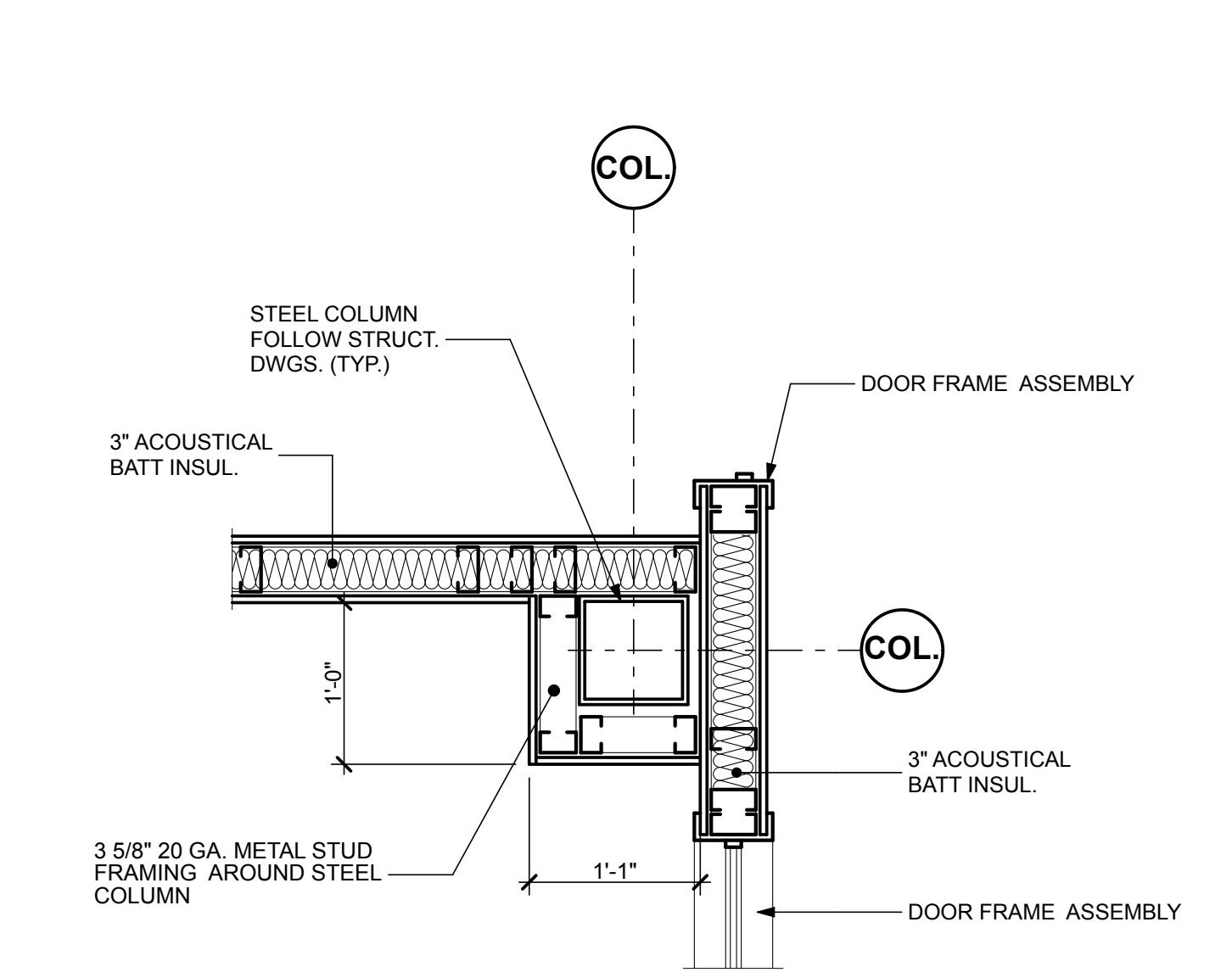
PLAN DETAIL 1" = 1'-0" 39



PLAN DETAIL 1" = 1'-0" 42



PLAN DETAIL 1" = 1'-0" 43



PLAN DETAIL 1" = 1'-0" 44

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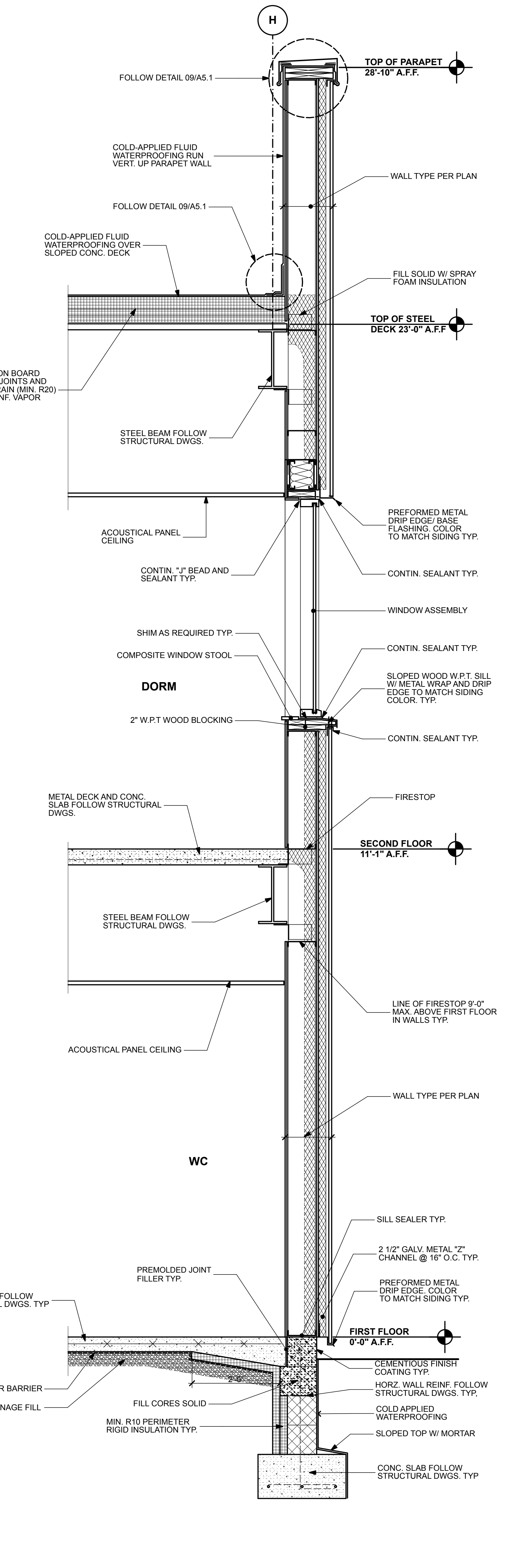
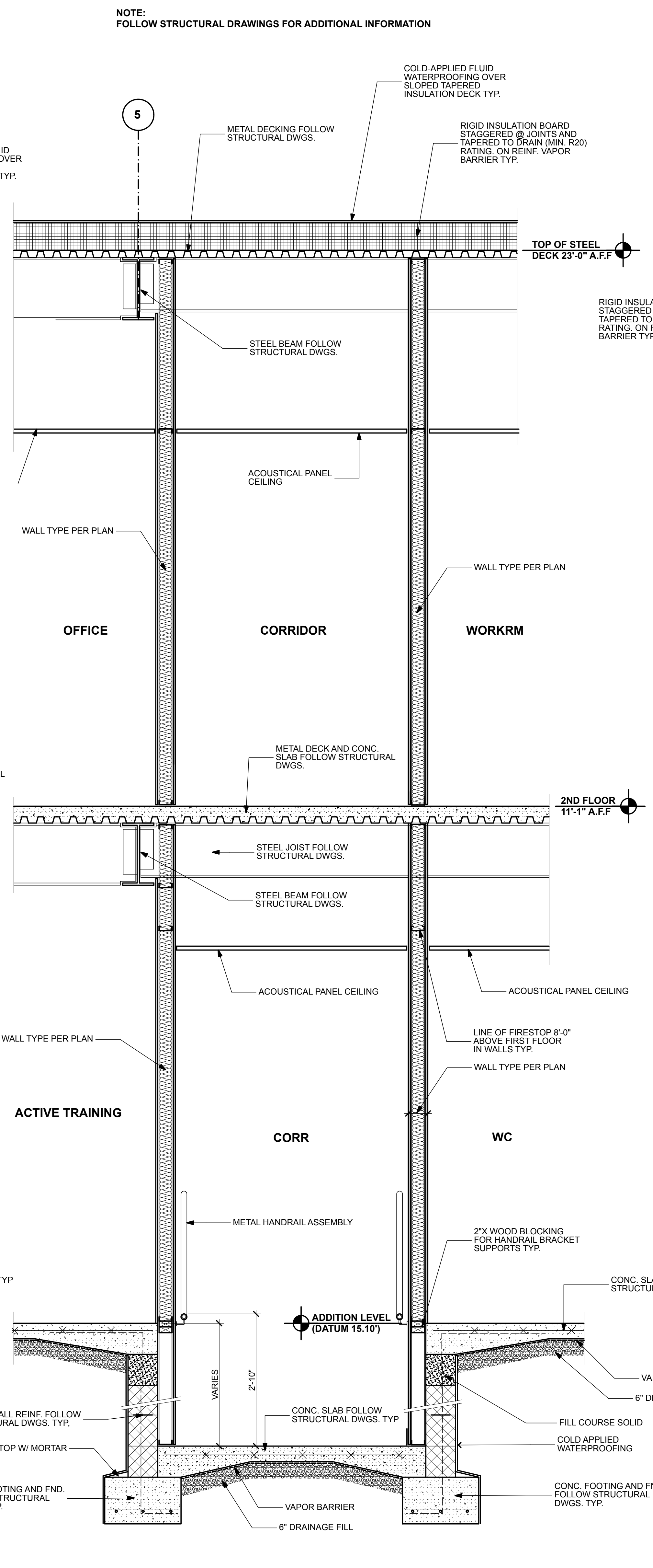
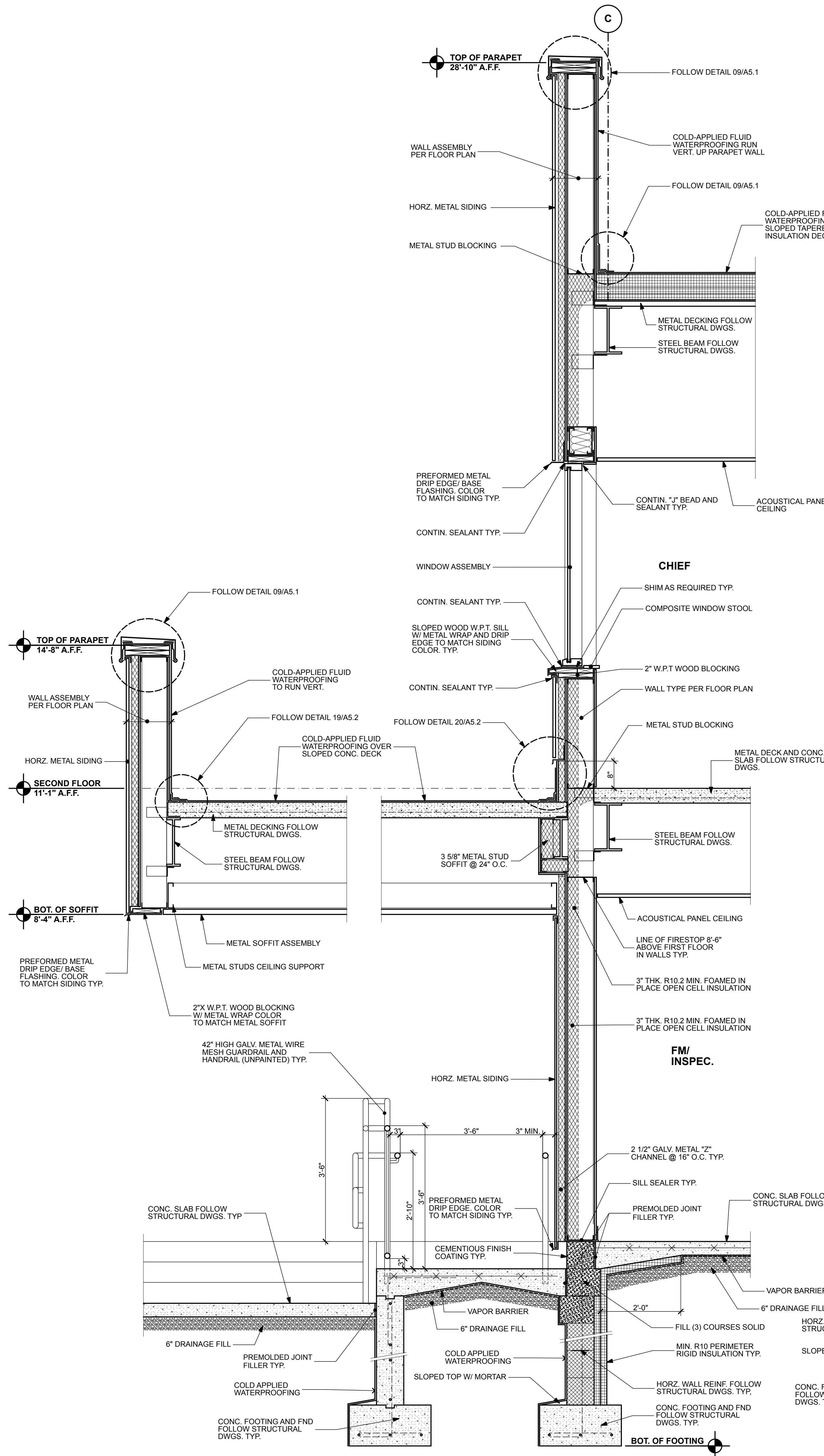
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TITLE **PLAN DETAILS**

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A3.3

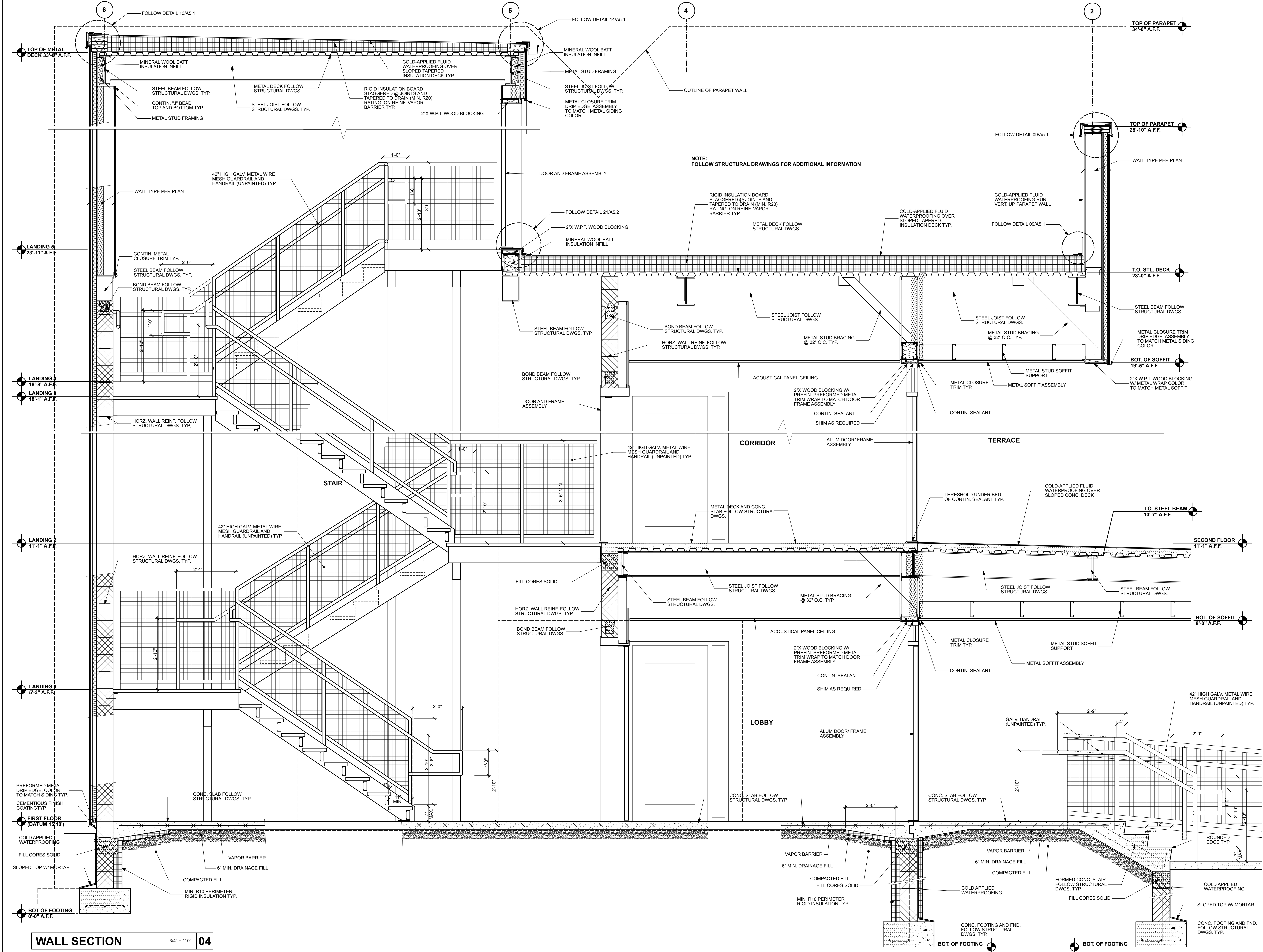
26 OF 37



WALL SECTION 3/4" = 1'-0" 01

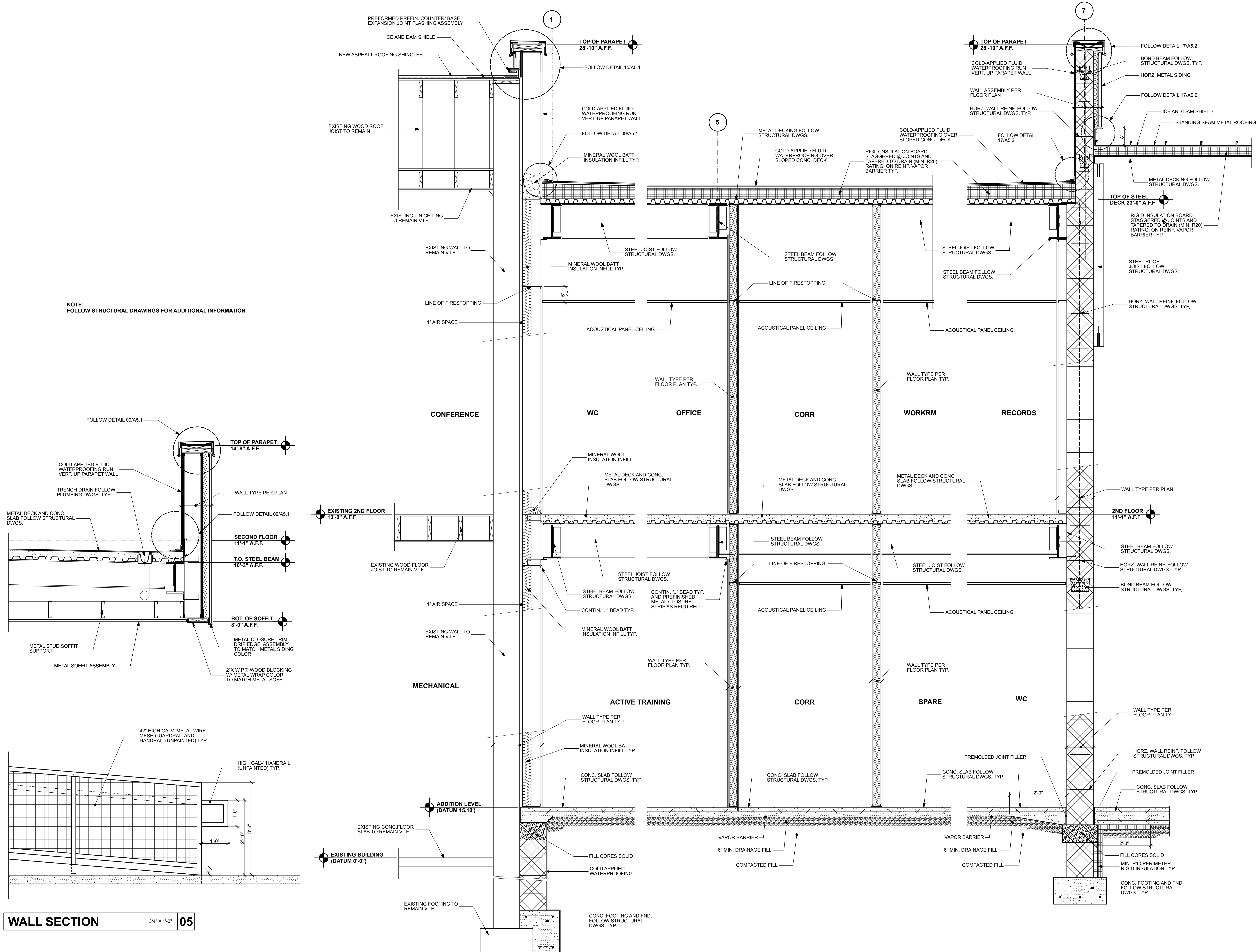
WALL SECTION 3/4" = 1'-0" 02

WALL SECTION 3/4" = 1'-0" 03



WALL SECTION 3/4" = 1'-0" 04

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NOTE:
FOLLOW STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

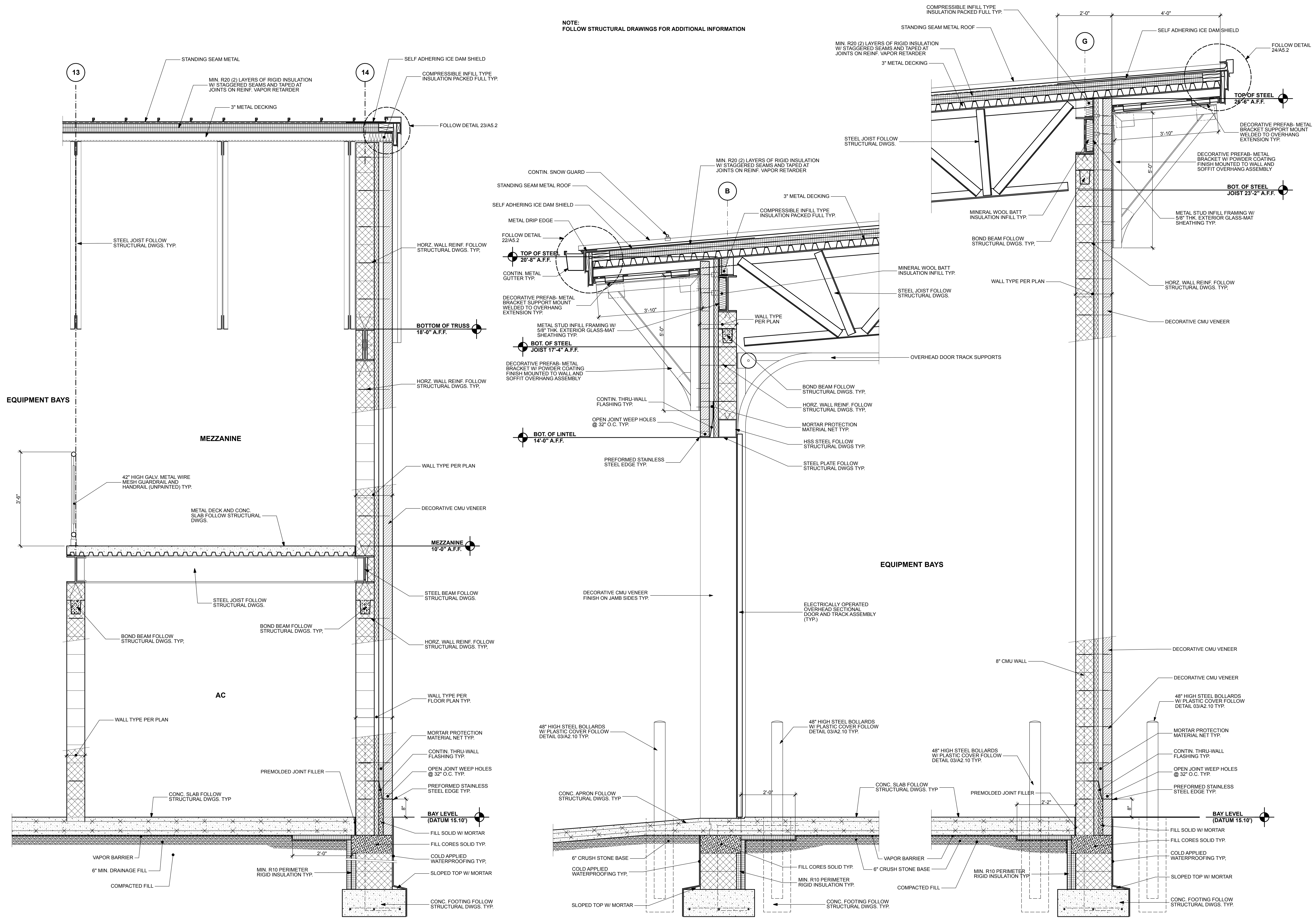
WALL SECTION 3/4" = 1'-0" **05**

WALL SECTION 3/4" = 1'-0" **06**

WALL SECTION 3/4" = 1'-0" **07**

WALL SECTION 3/4" = 1'-0" **08**

NOTE:
FOLLOW STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



WALL SECTION 3/4" = 1'-0" 09

WALL SECTION 3/4" = 1'-0" 10

WALL SECTION 3/4" = 1'-0" 11

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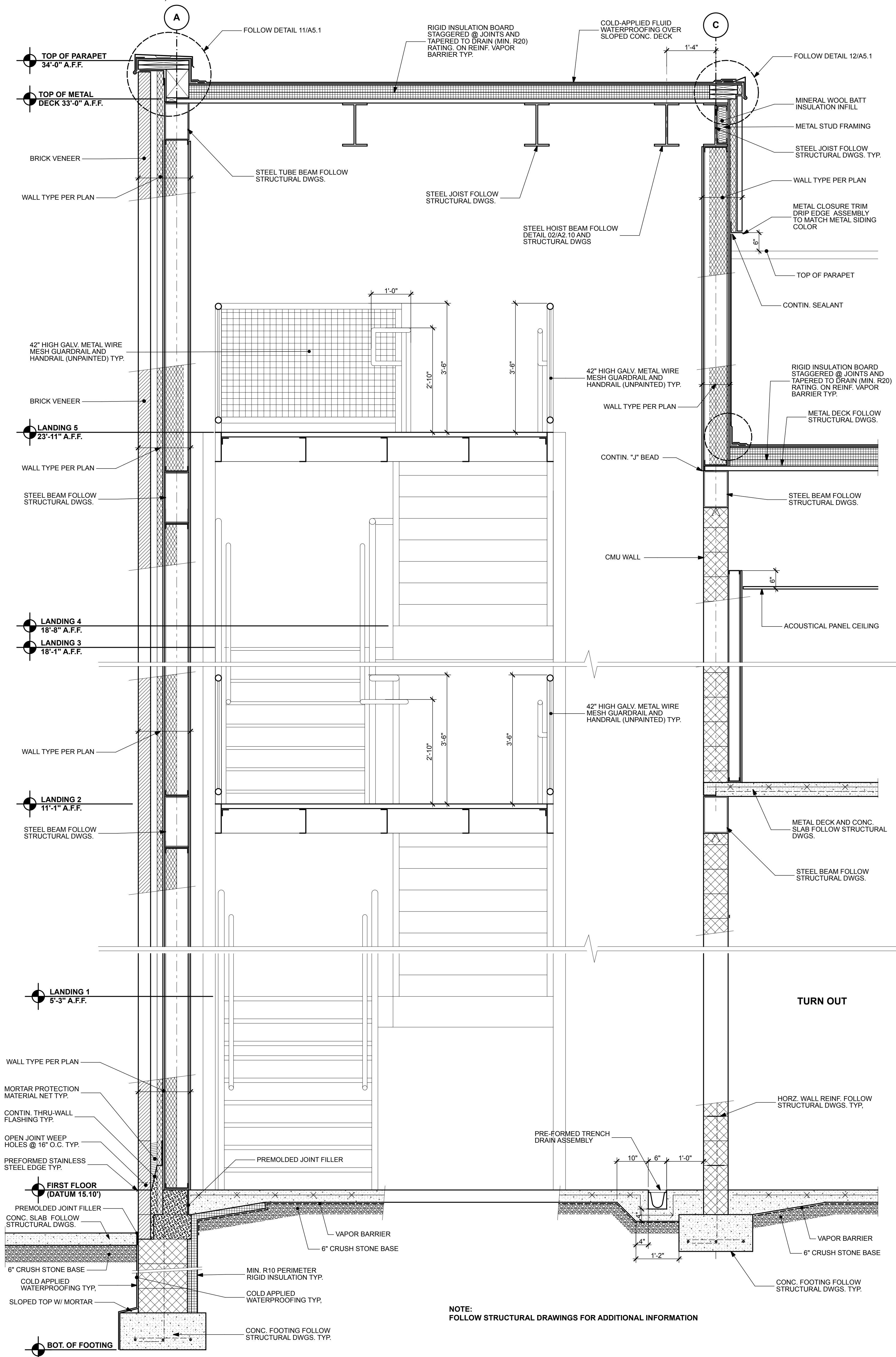
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TITLE **WALL SECTIONS**

DRAWING DATE:
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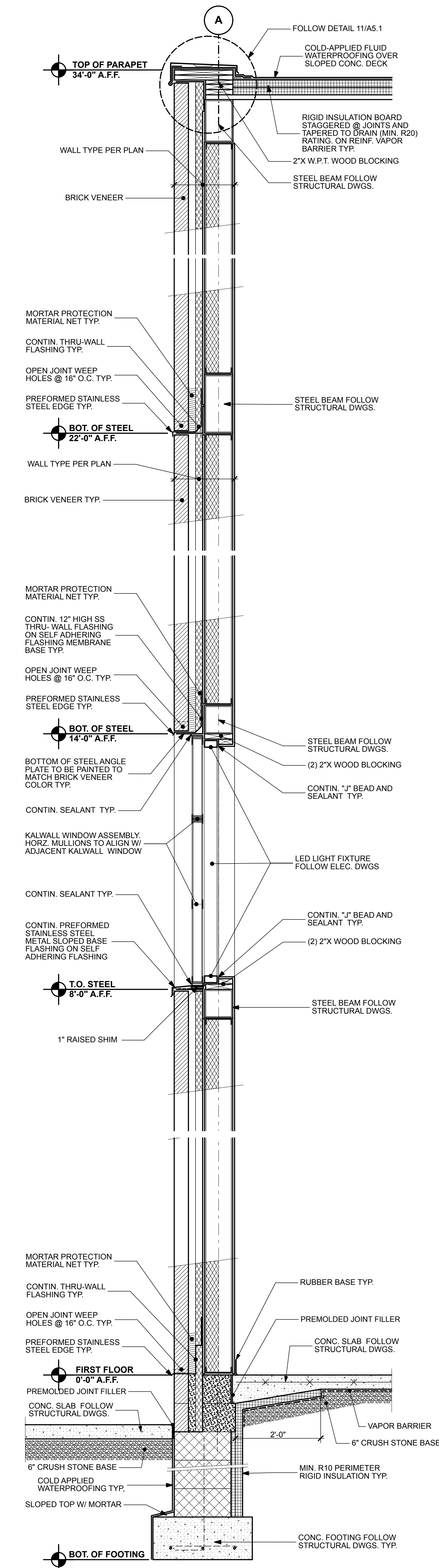
DRAWN BY:
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A4.3
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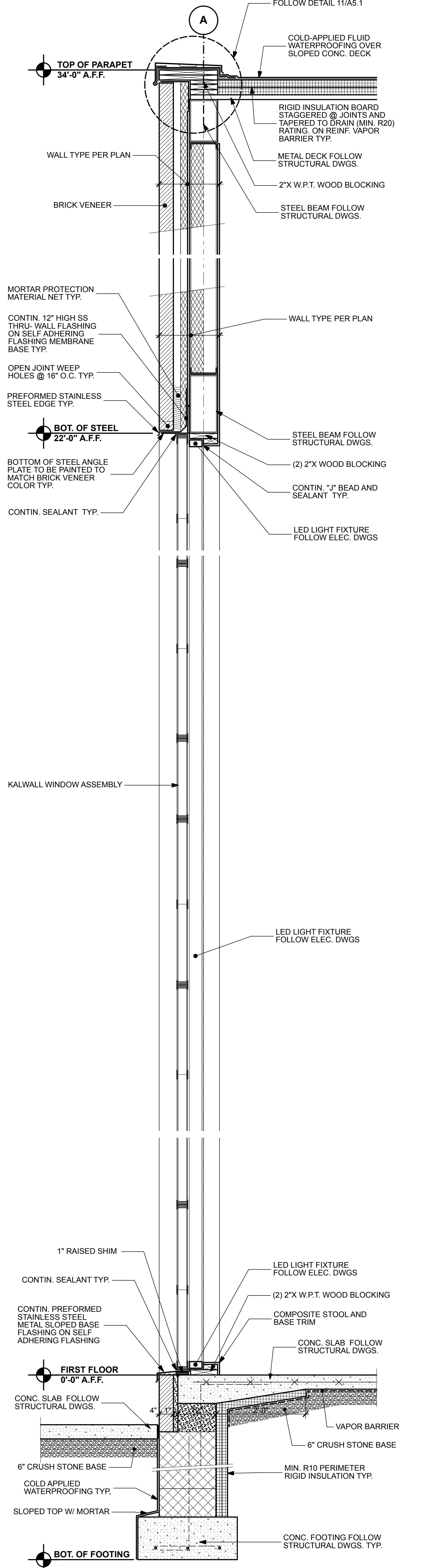


NOTE:
FOLLOW STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

WALL SECTION 3/4" = 1'-0" 12



WALL SECTION 3/4" = 1'-0" 13



WALL SECTION 3/4" = 1'-0" 14

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TITLE
WALL SECTIONS

DRAWING DATE:
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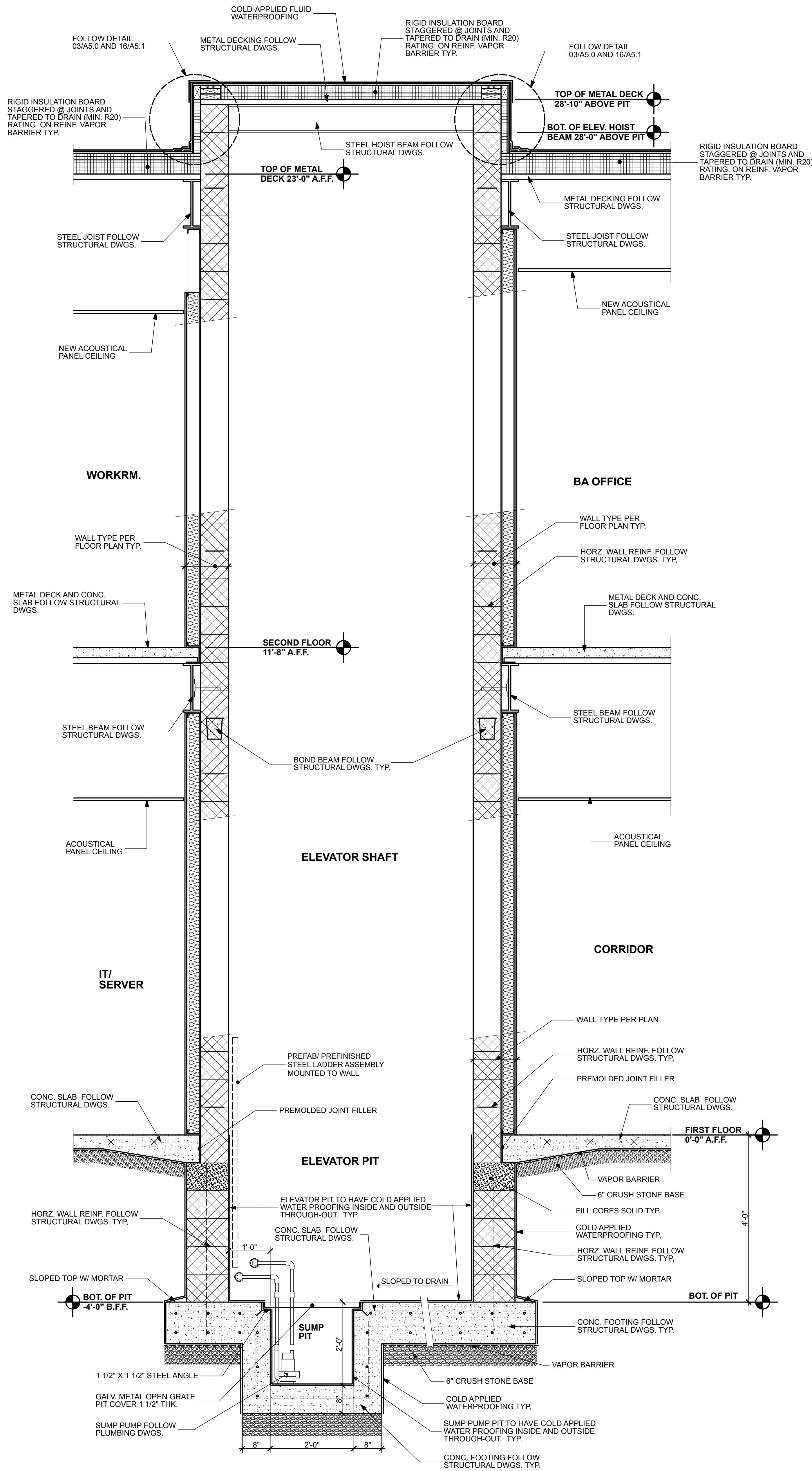
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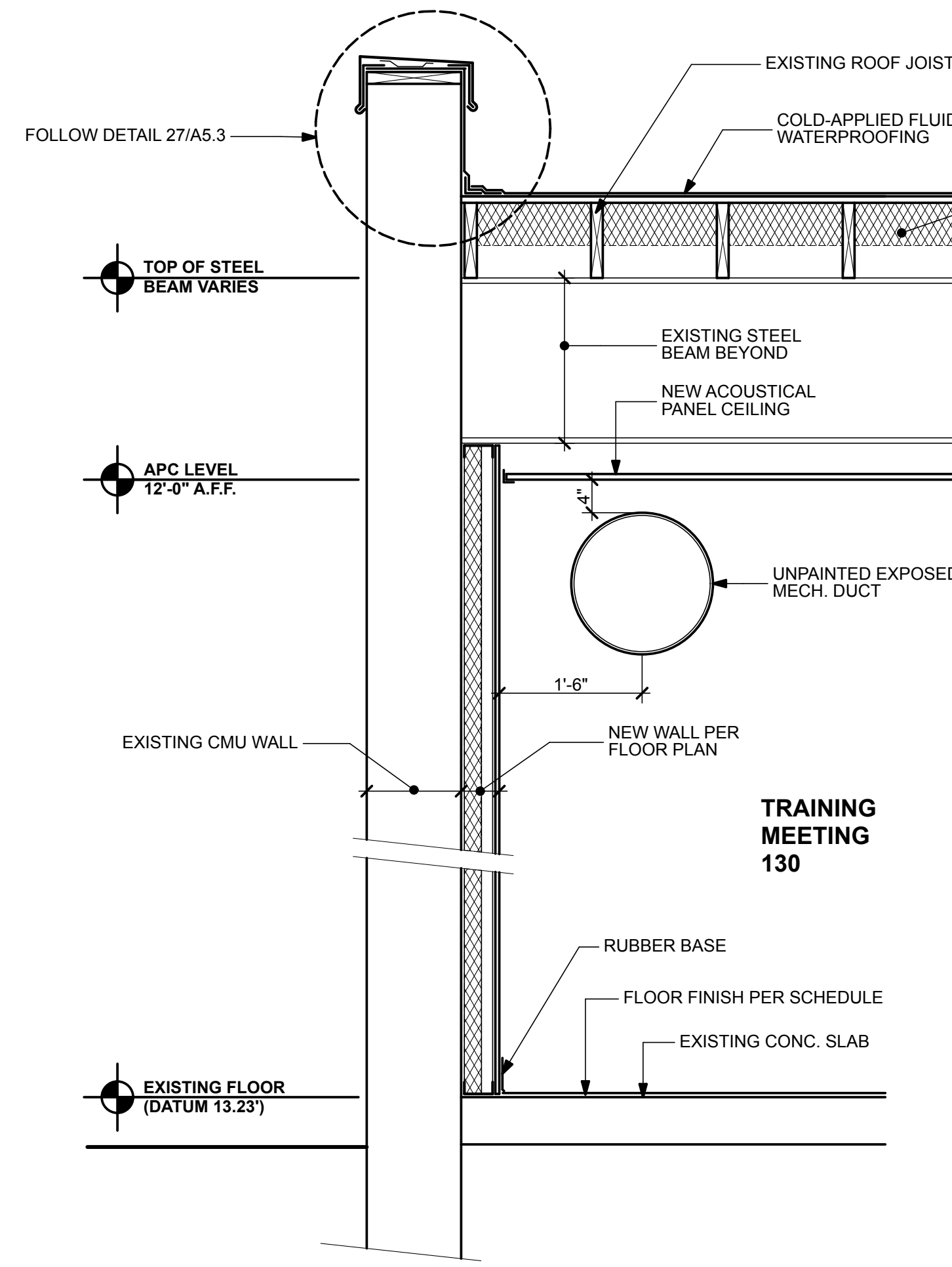
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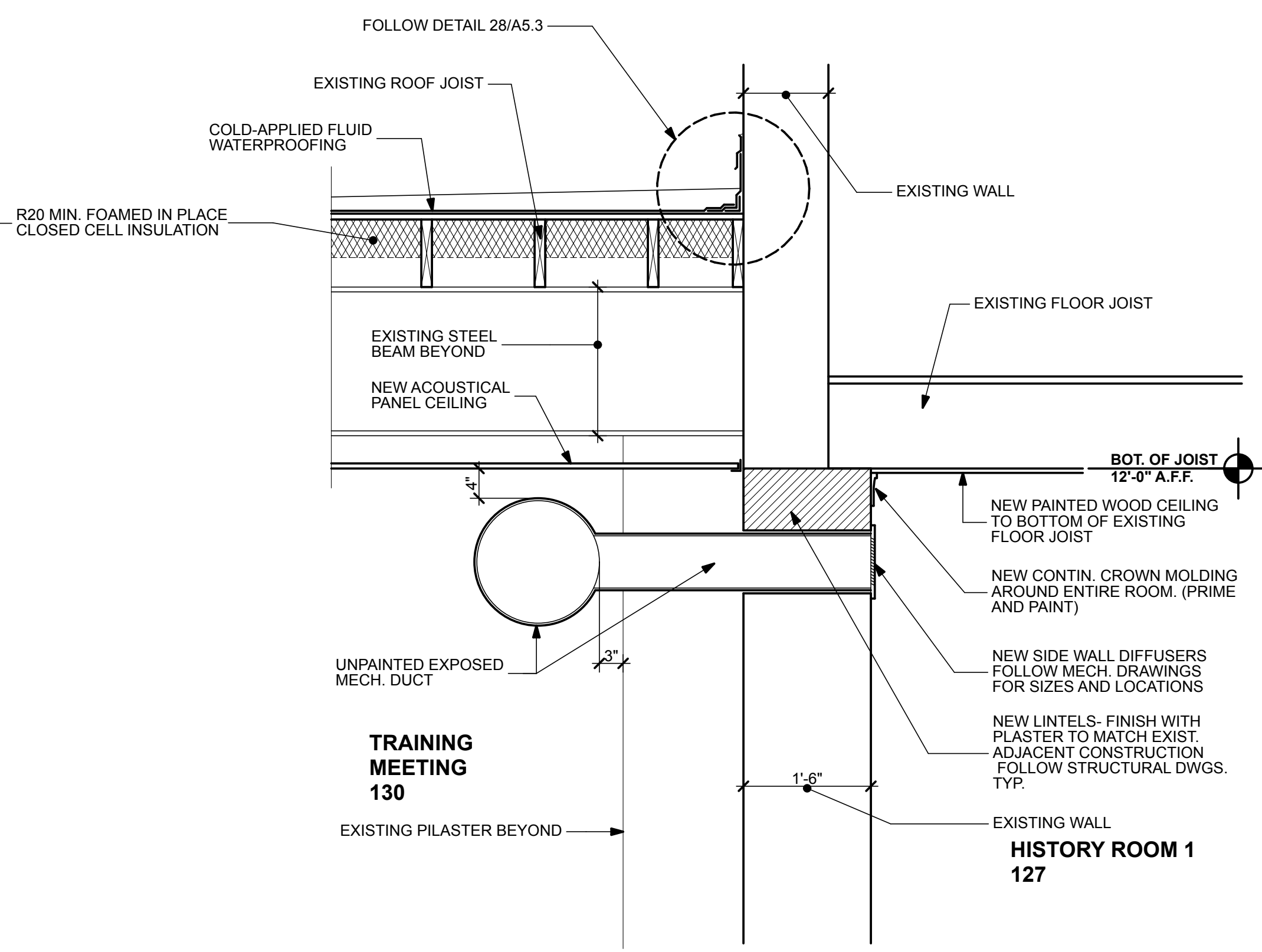


WALL SECTION 3/4" = 1'-0" **15**

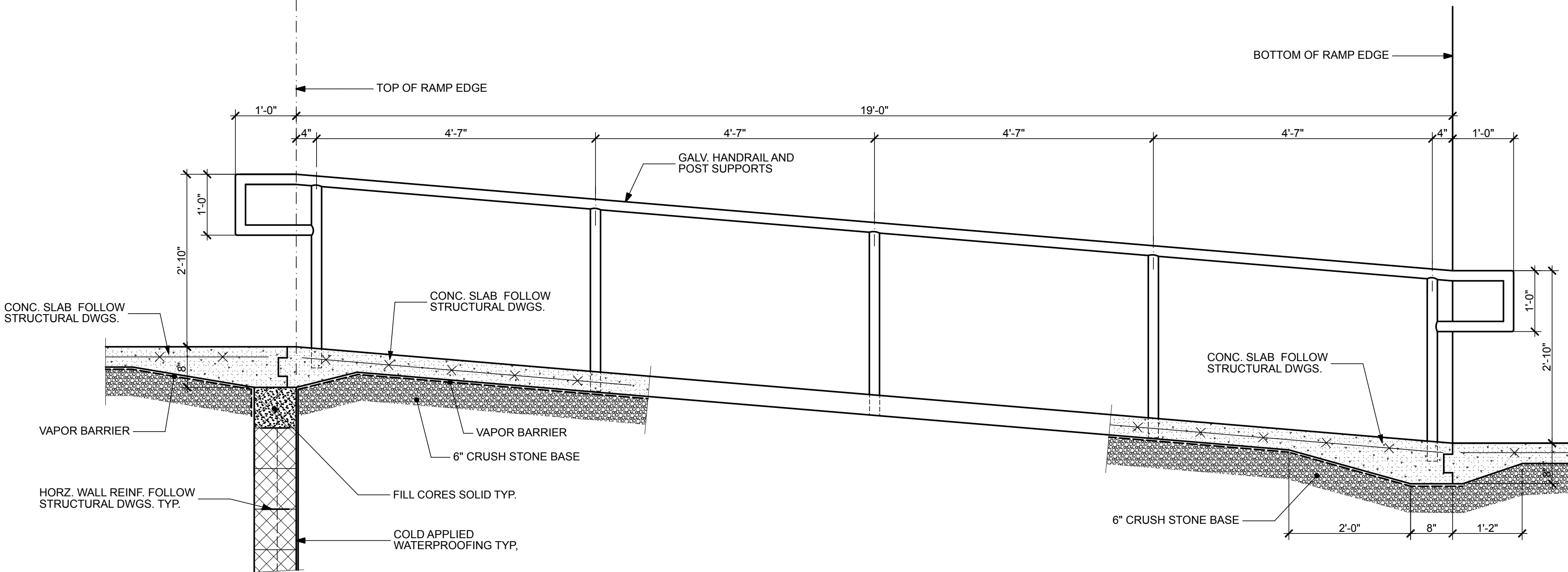


WALL SECTION 3/4" = 1'-0" **17**

NOTE:
FOLLOW STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

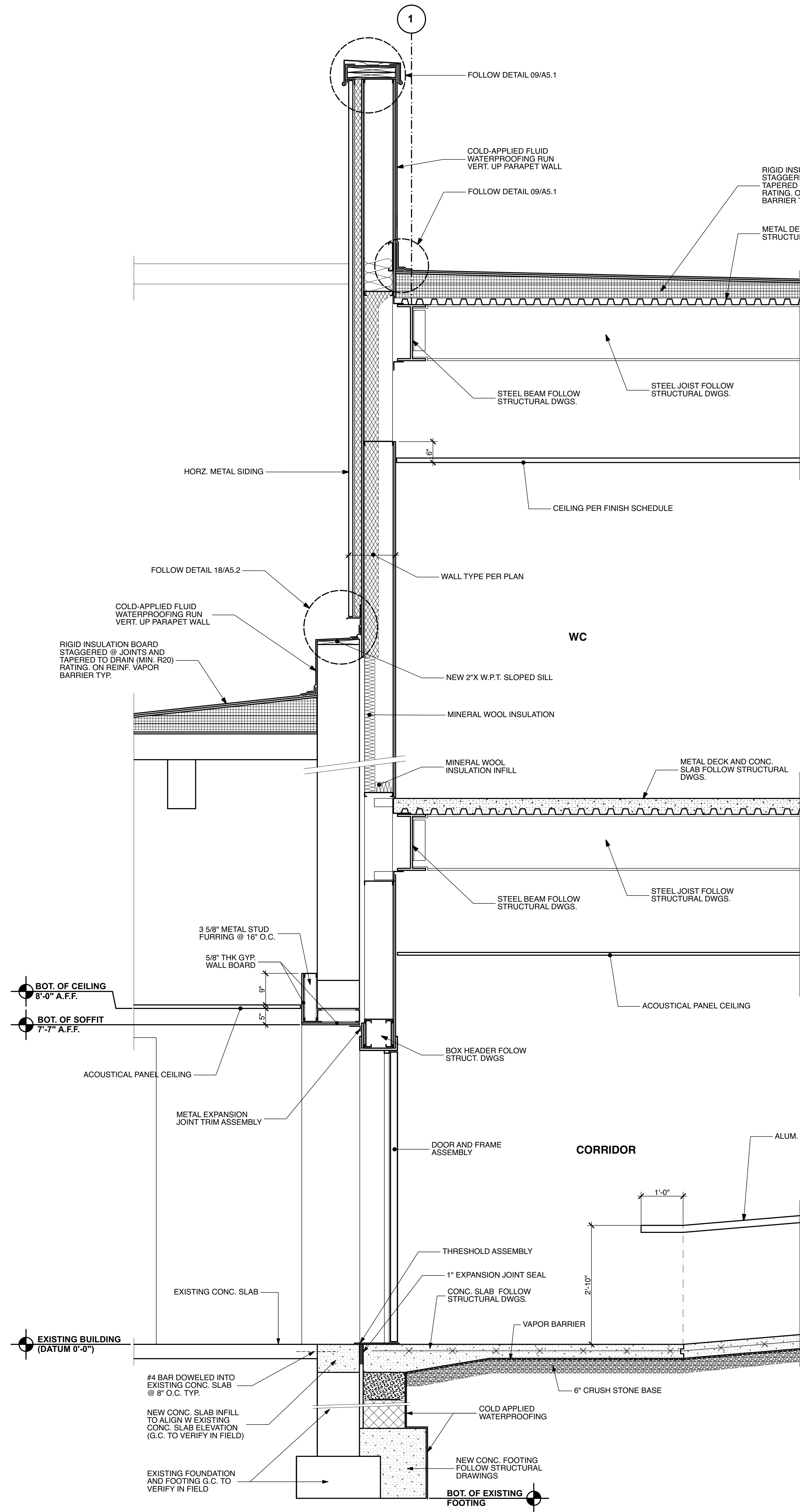


WALL SECTION 3/4" = 1'-0" **18**



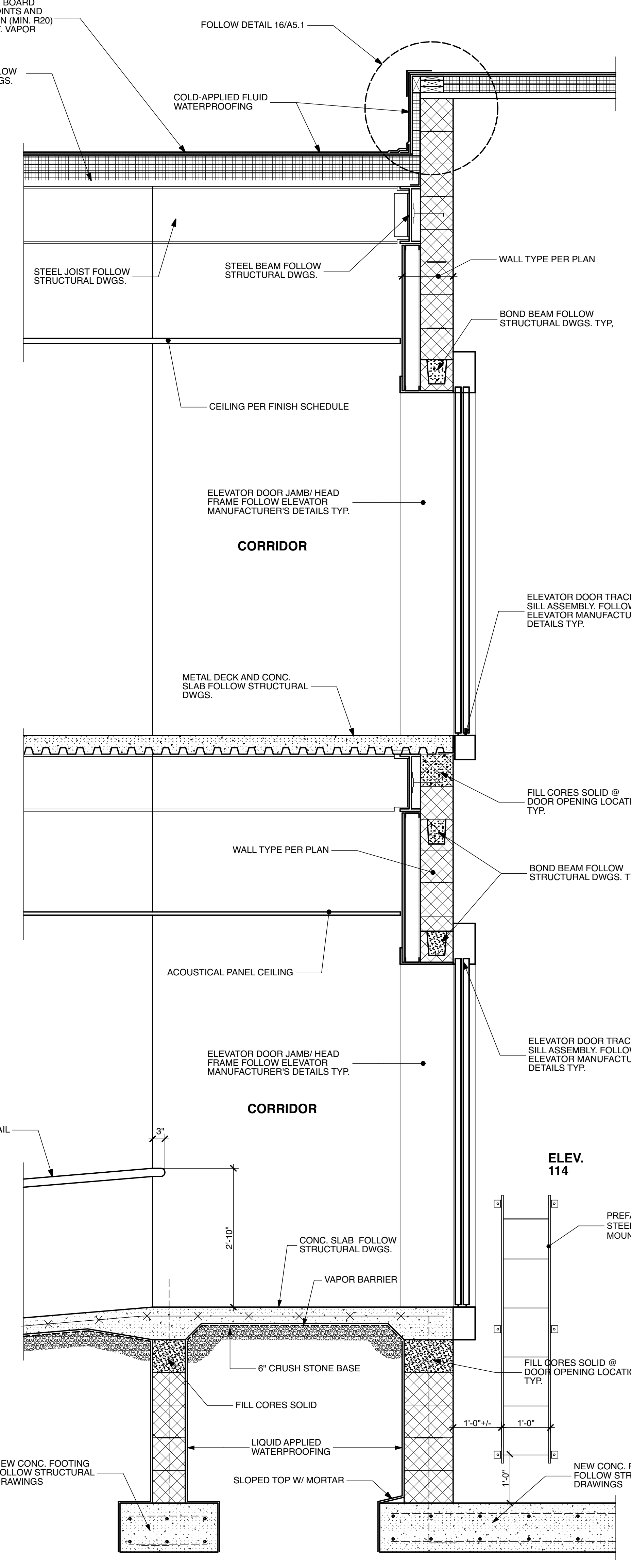
SECTION THRU RAMP 3/4" = 1'-0" **16**

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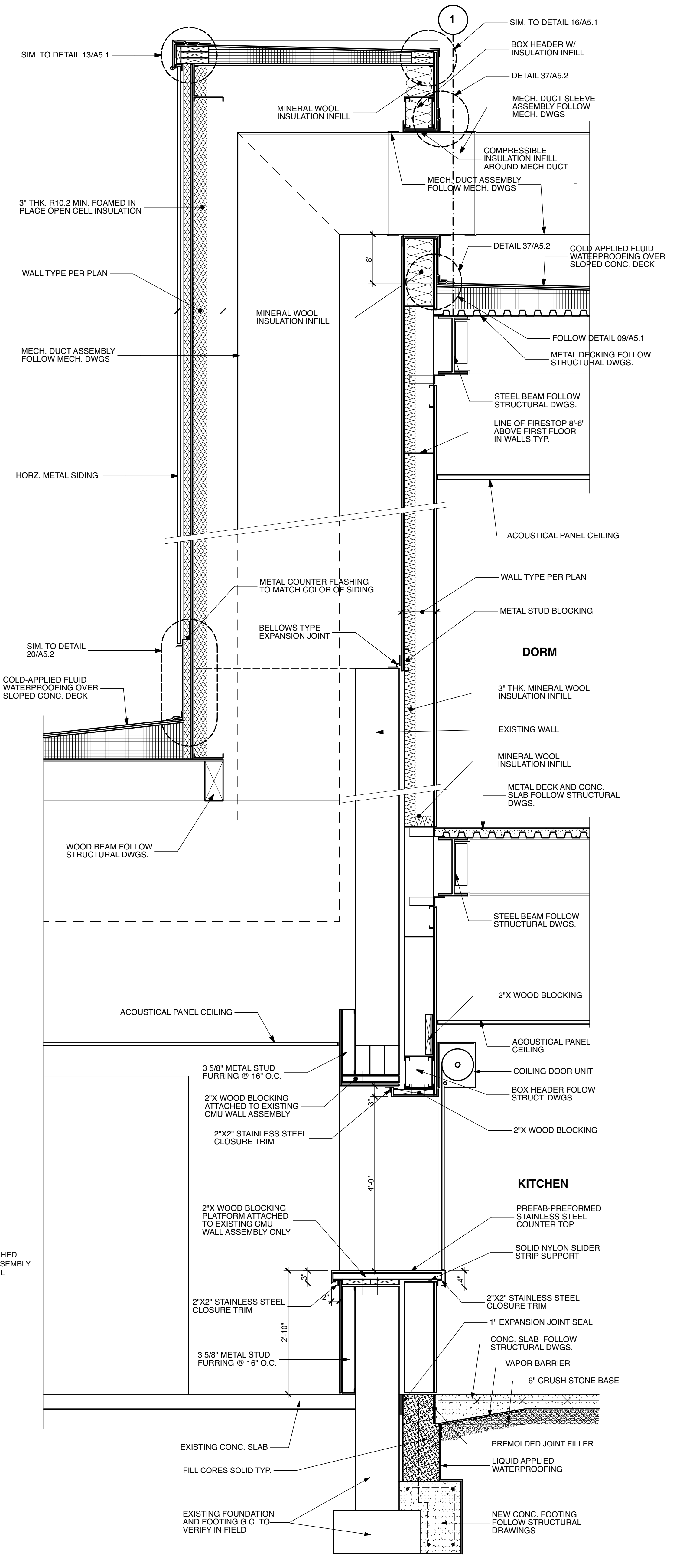


WALL SECTION 3/4" = 1'-0" **19**

NOTE:
FOLLOW STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



WALL SECTION 3/4" = 1'-0" **20**



WALL SECTION 3/4" = 1'-0" **21**

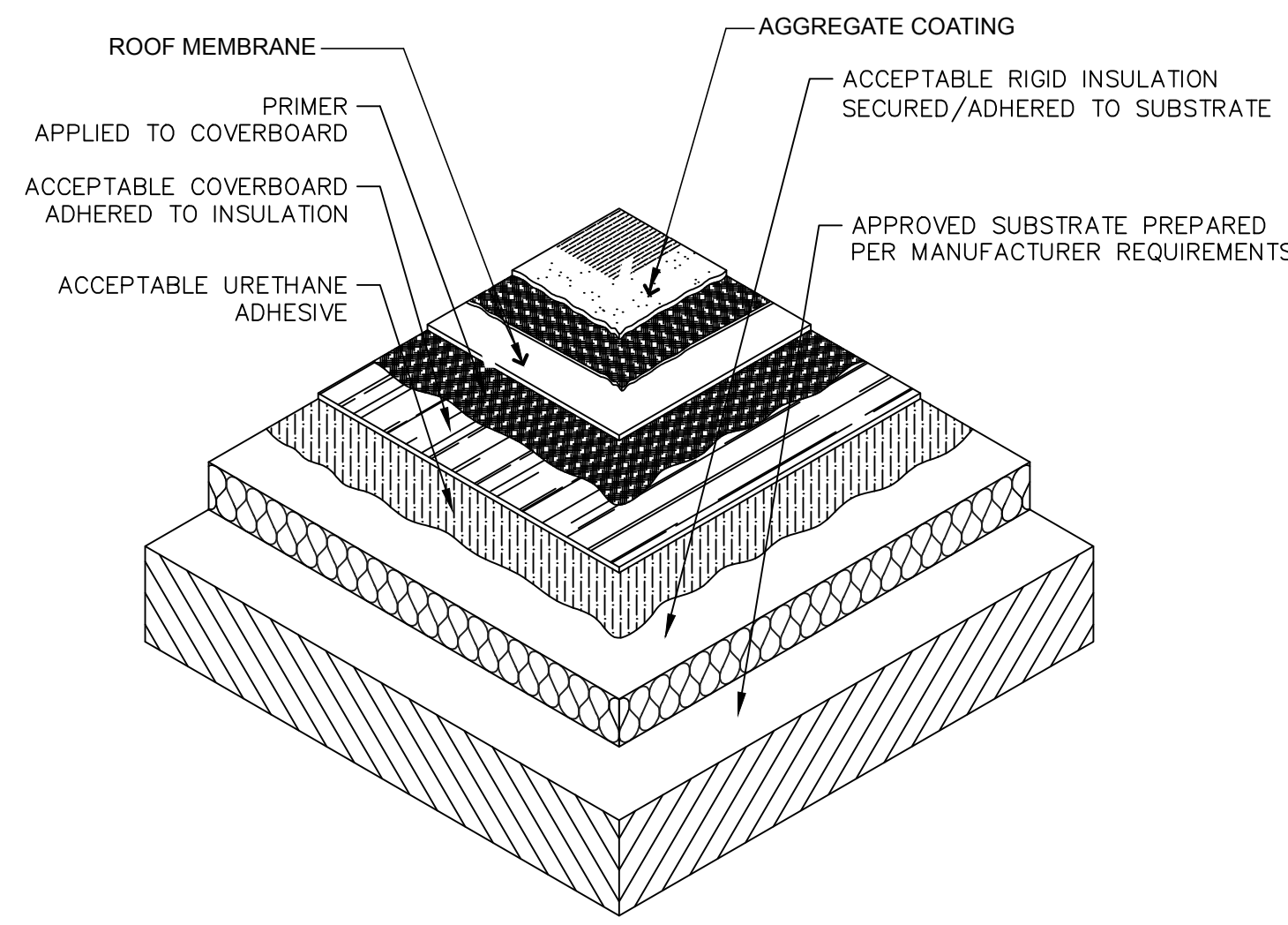
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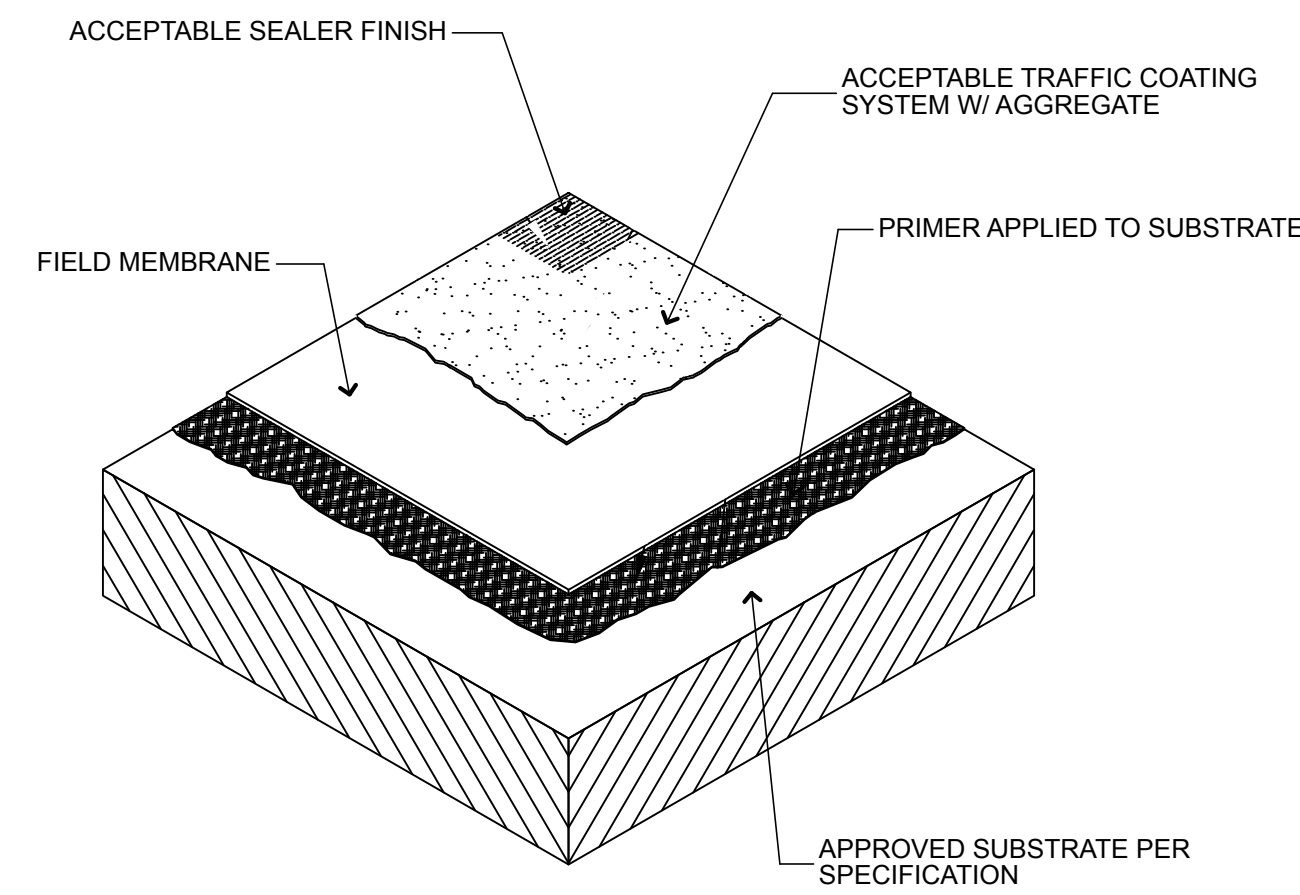
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WALL SECTIONS

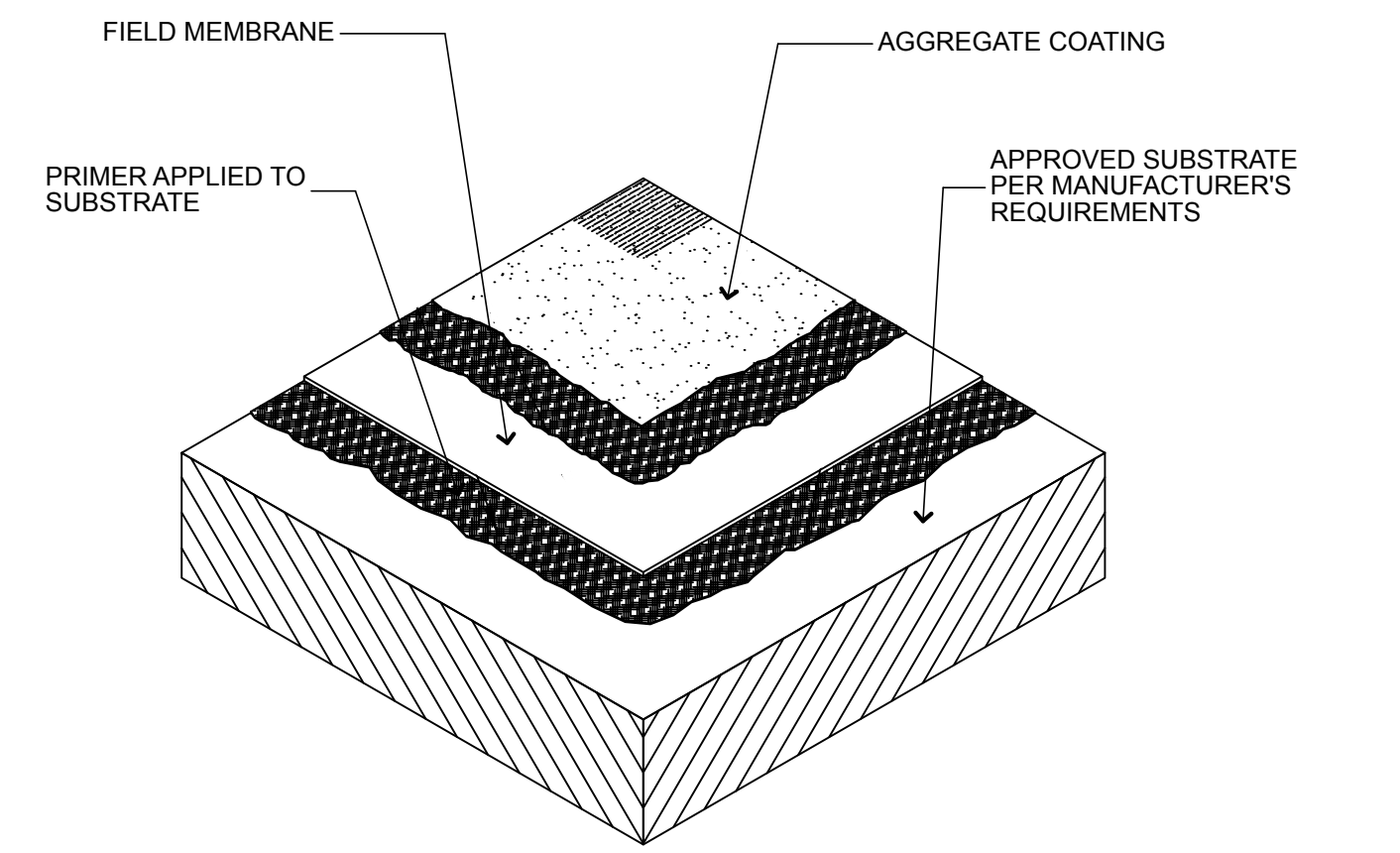
DRAWING DATE:	01 JULY 2020
REVISION DATE:	
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COMMISSION NO.:	5475B



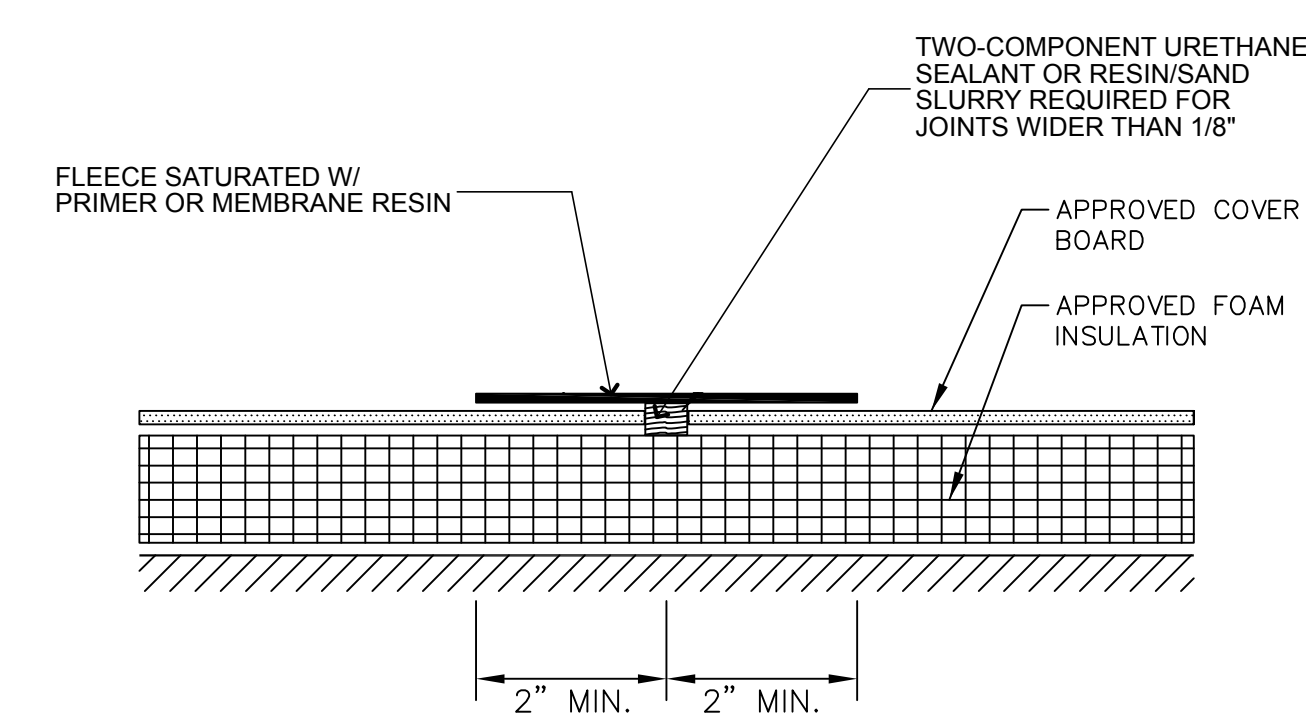
TYP. ROOF MAKE-UP DETAIL NTS **A**



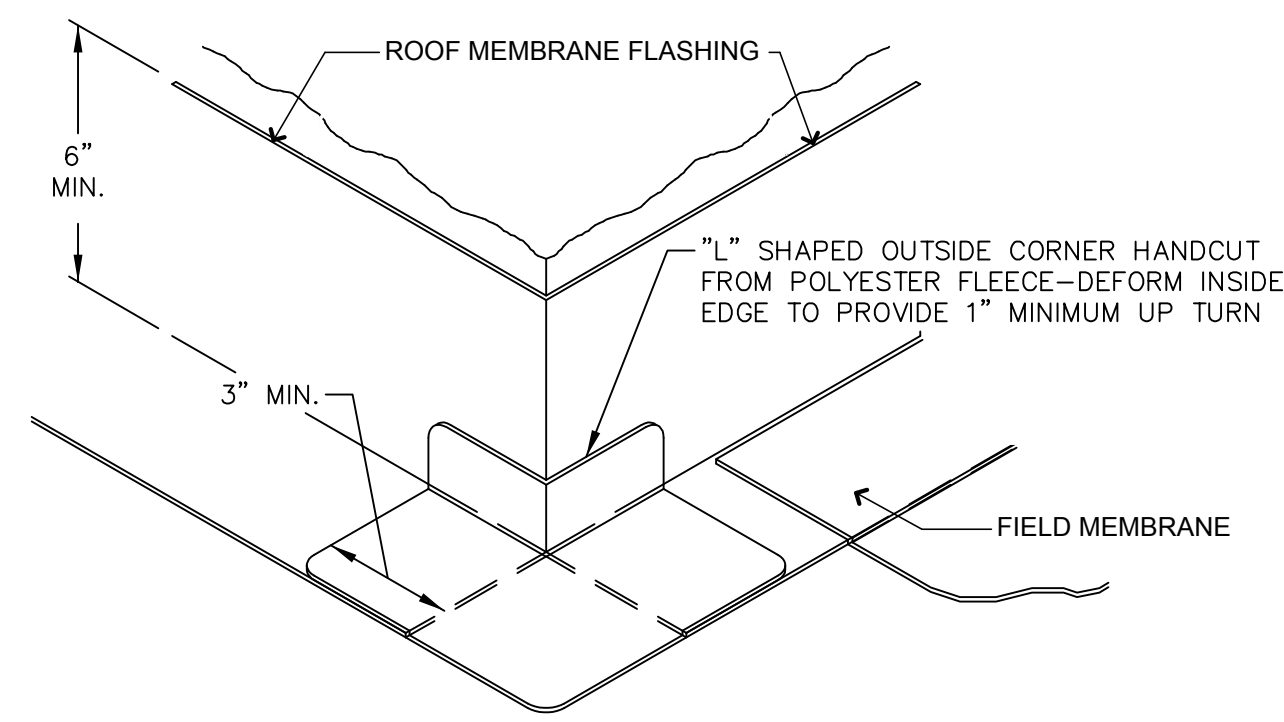
TYP. ROOF MAKE-UP DETAIL NTS **B**



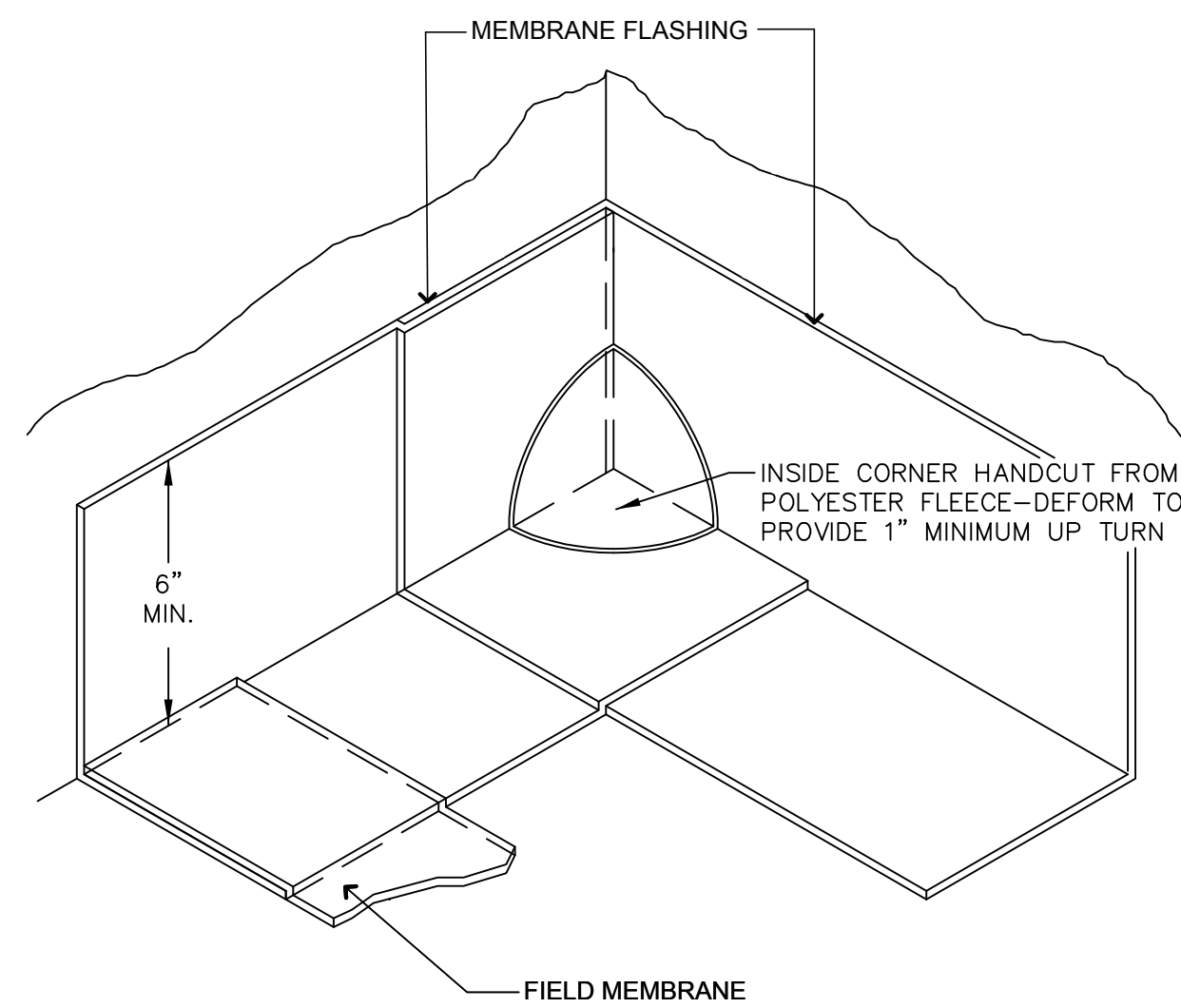
TYP. ROOF MAKE-UP DETAIL NTS **C**



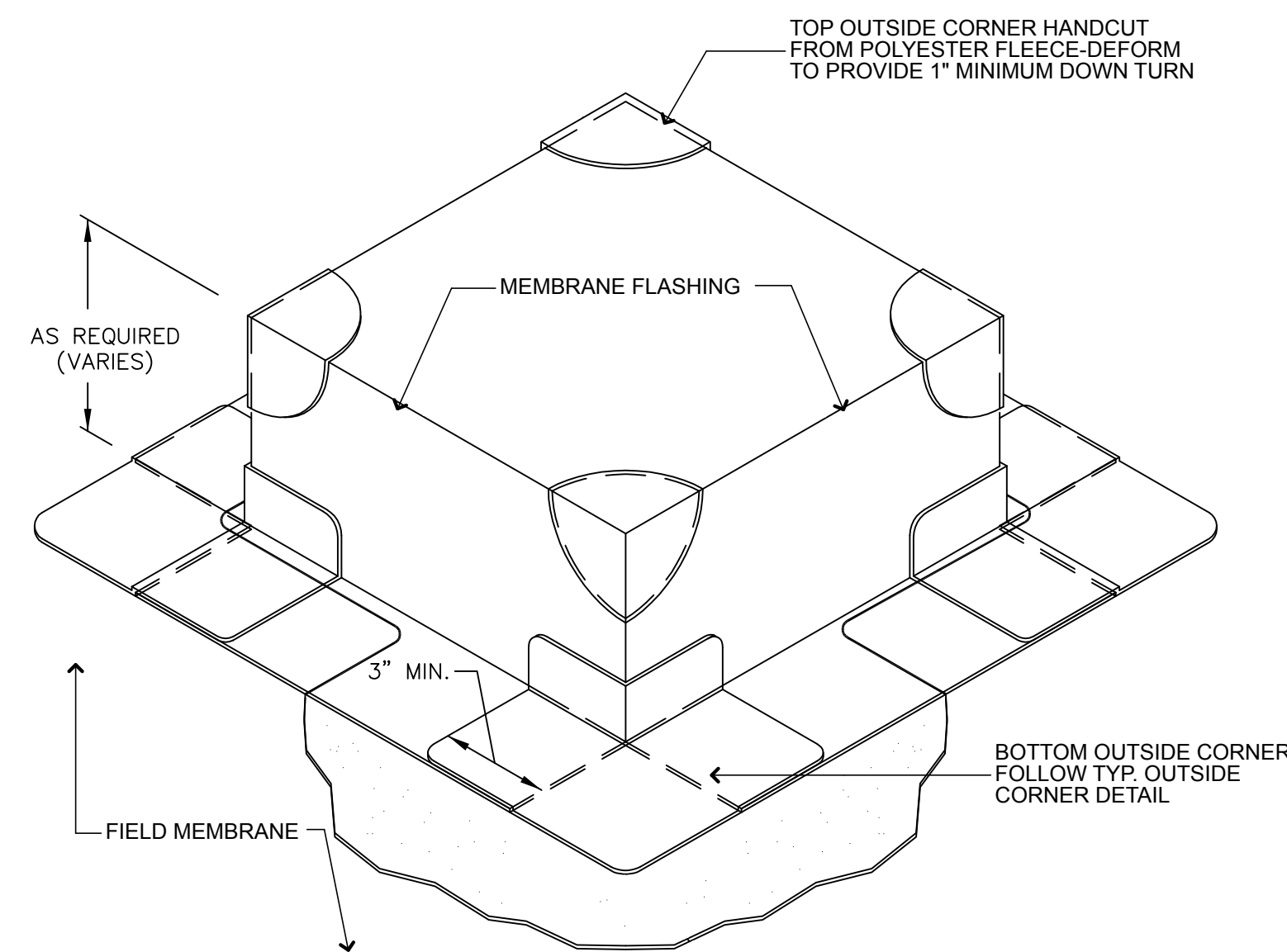
TYP. COVER BOARD JOINT DETAIL NTS **D**



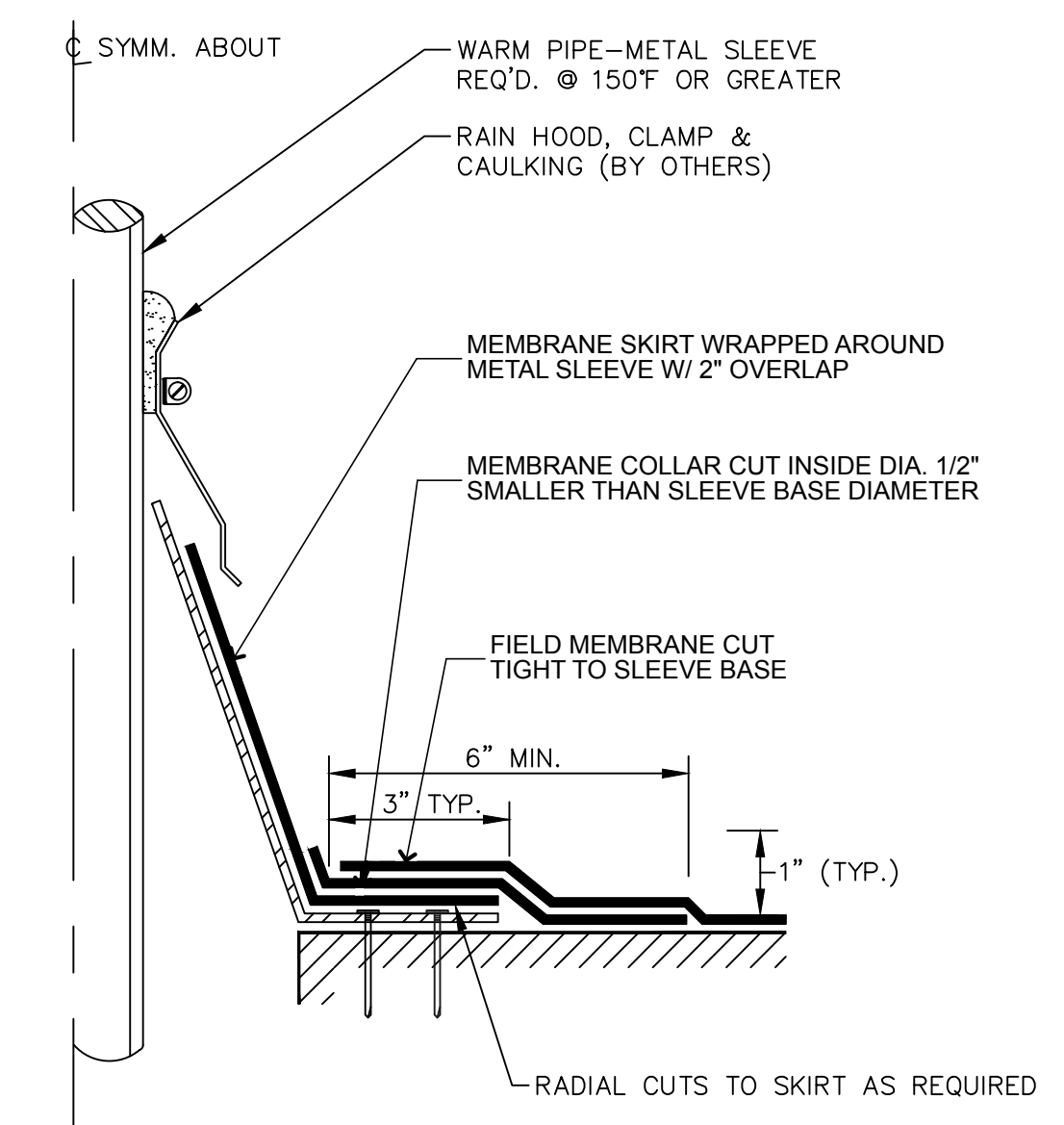
TYP. OUTSIDE CORNER FLASHING NTS **01**



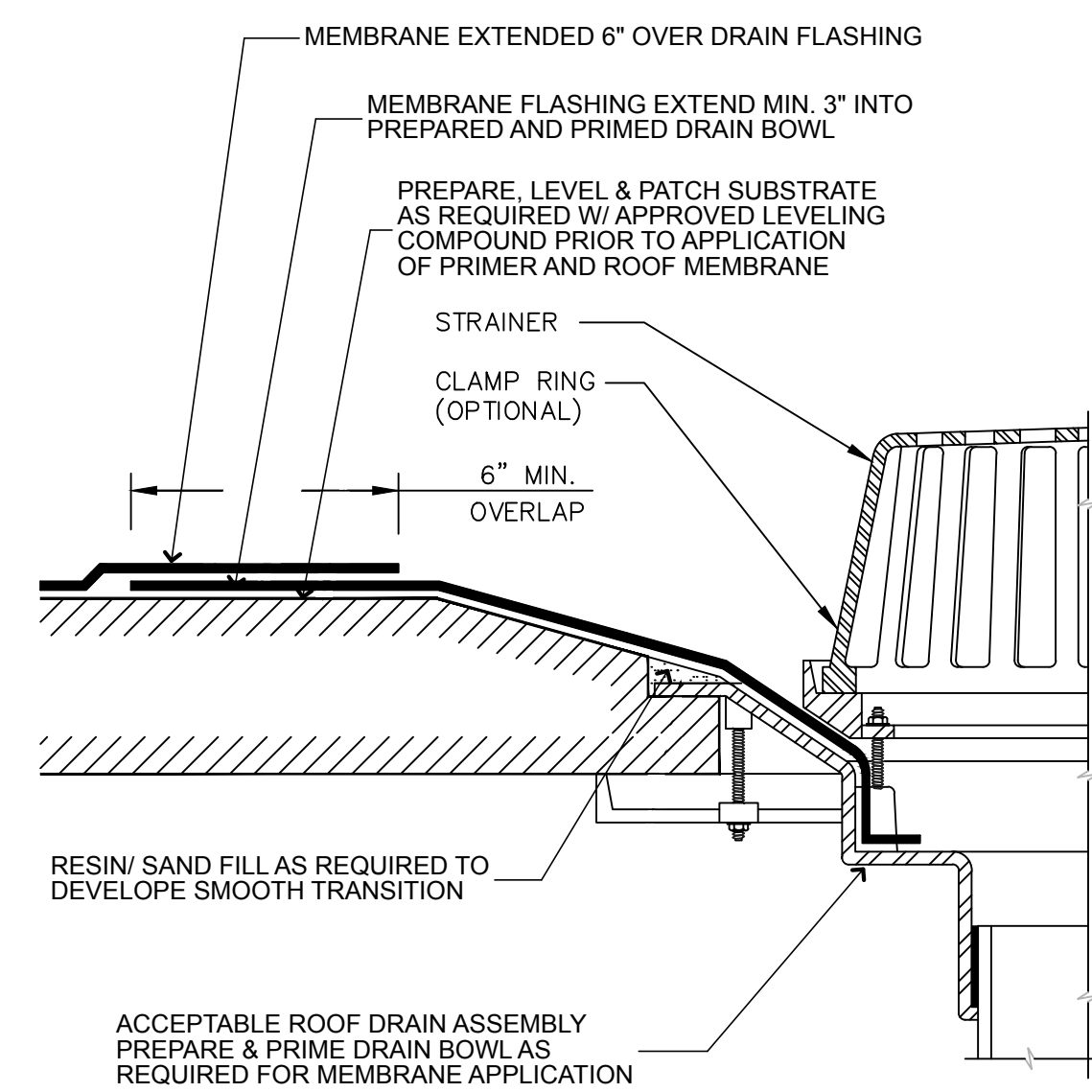
TYP. INSIDE CORNER FLASHING NTS **02**



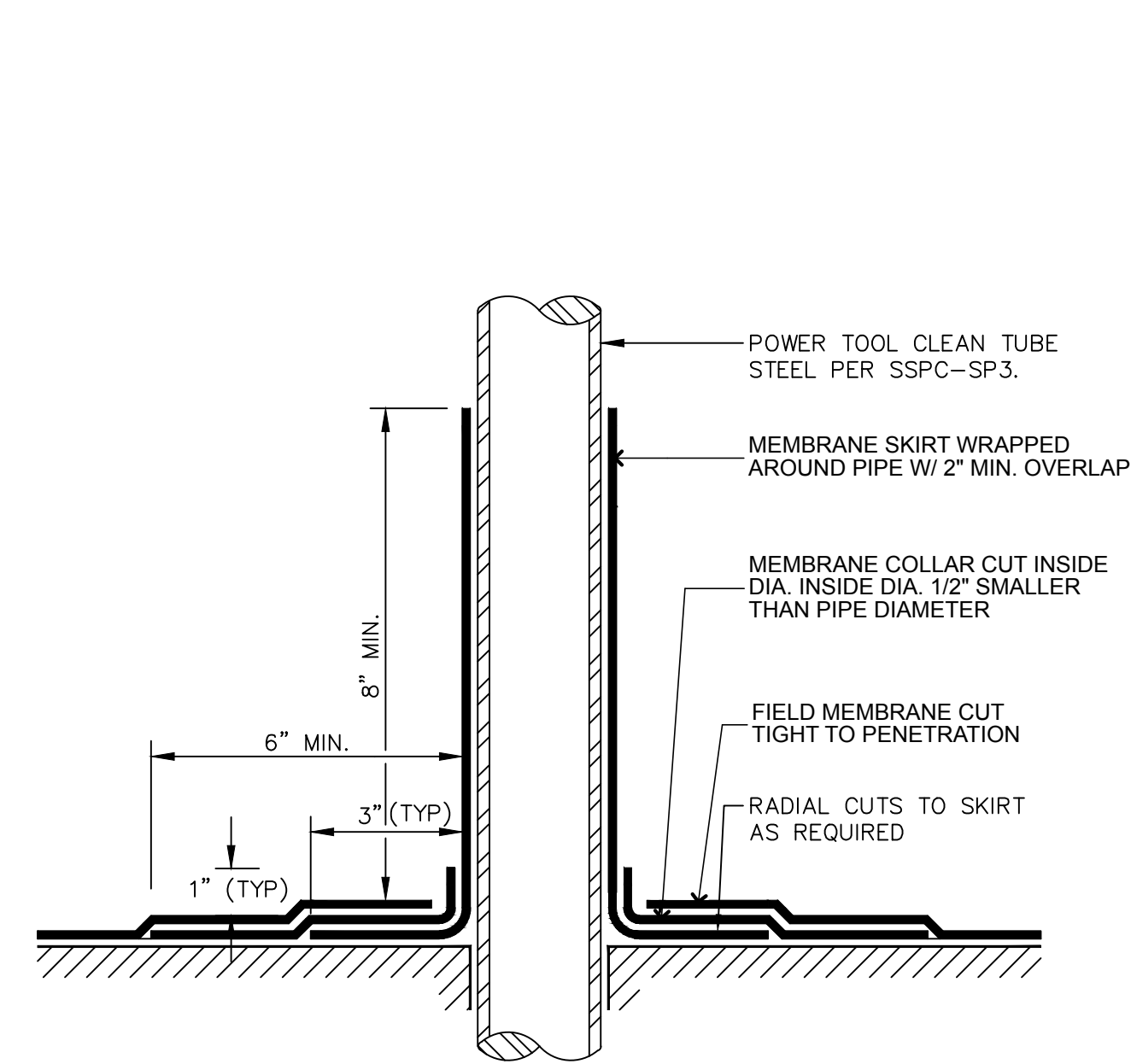
TYP. CURB/CAP FLASHING DETAIL NTS **03**



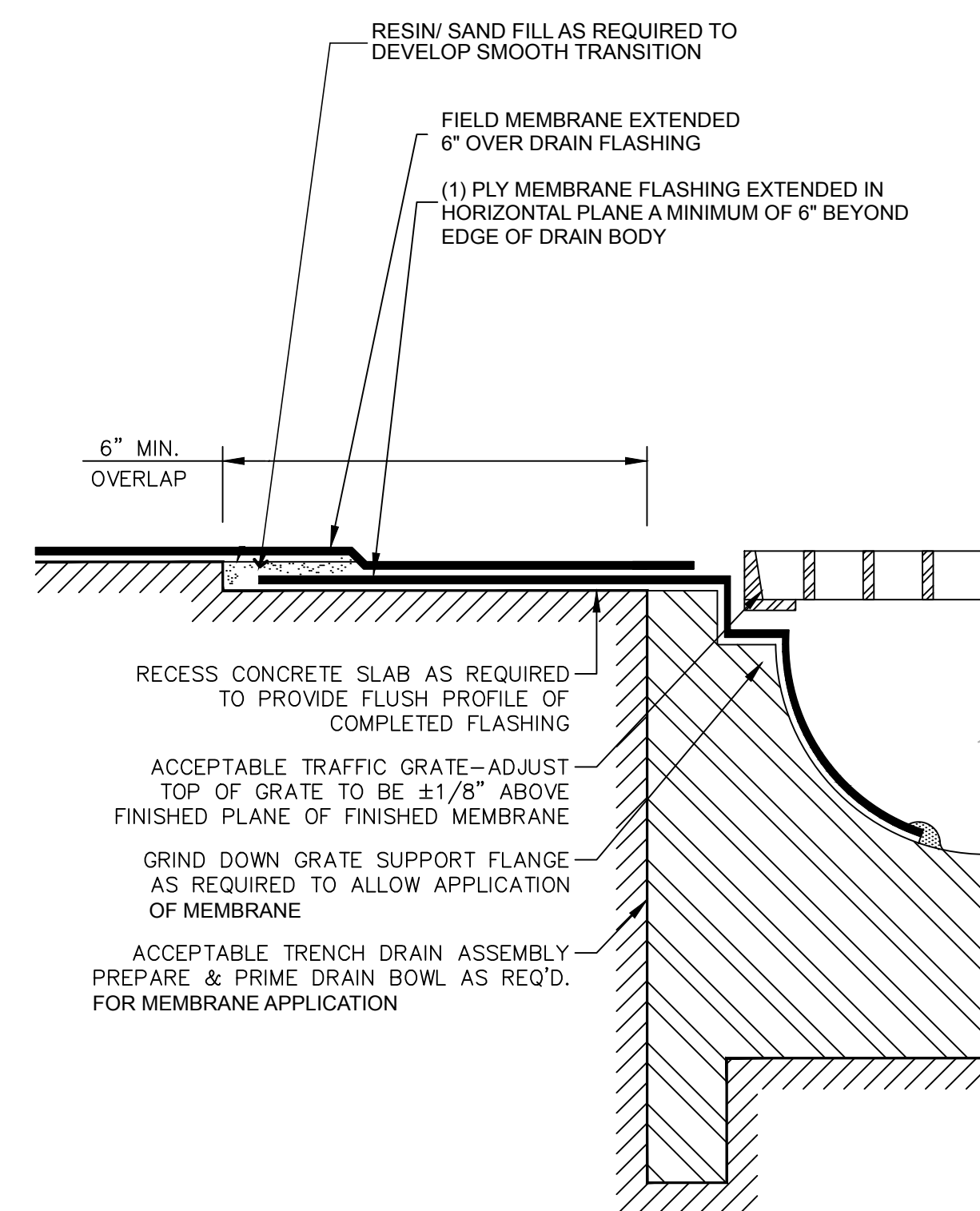
TYP. WARM PIPE FLASHING DTL. NTS **04**



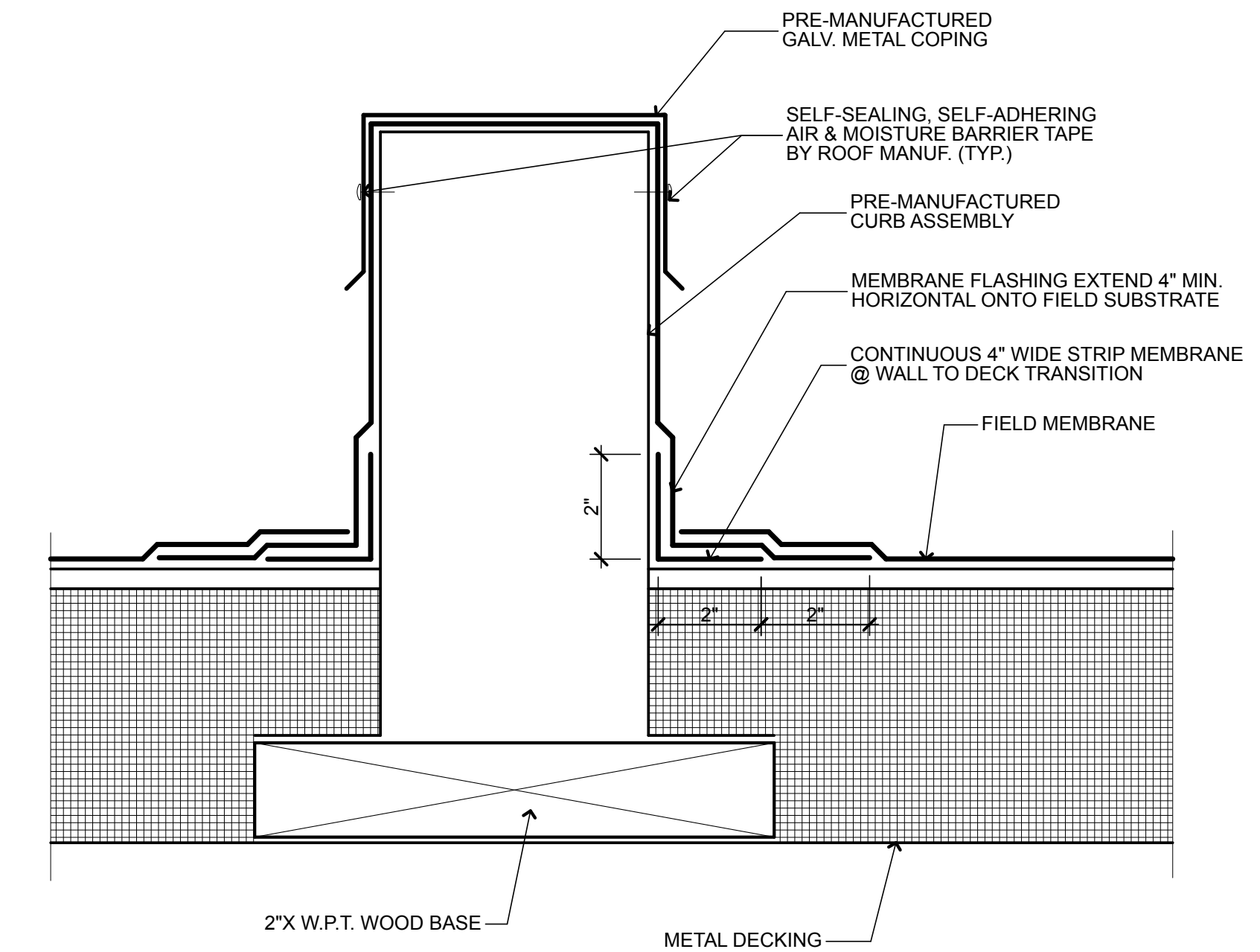
TYP. ROOF DRAIN FLASHING NTS **05**



PIPE PENETRATION FLASHING NTS **06**



TRENCH DRAIN FLASHING DETAIL NTS **07**



EQUIPMENT CURB FLASHING DTL. NTS **08**

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TITLE **ROOF DETAILS**

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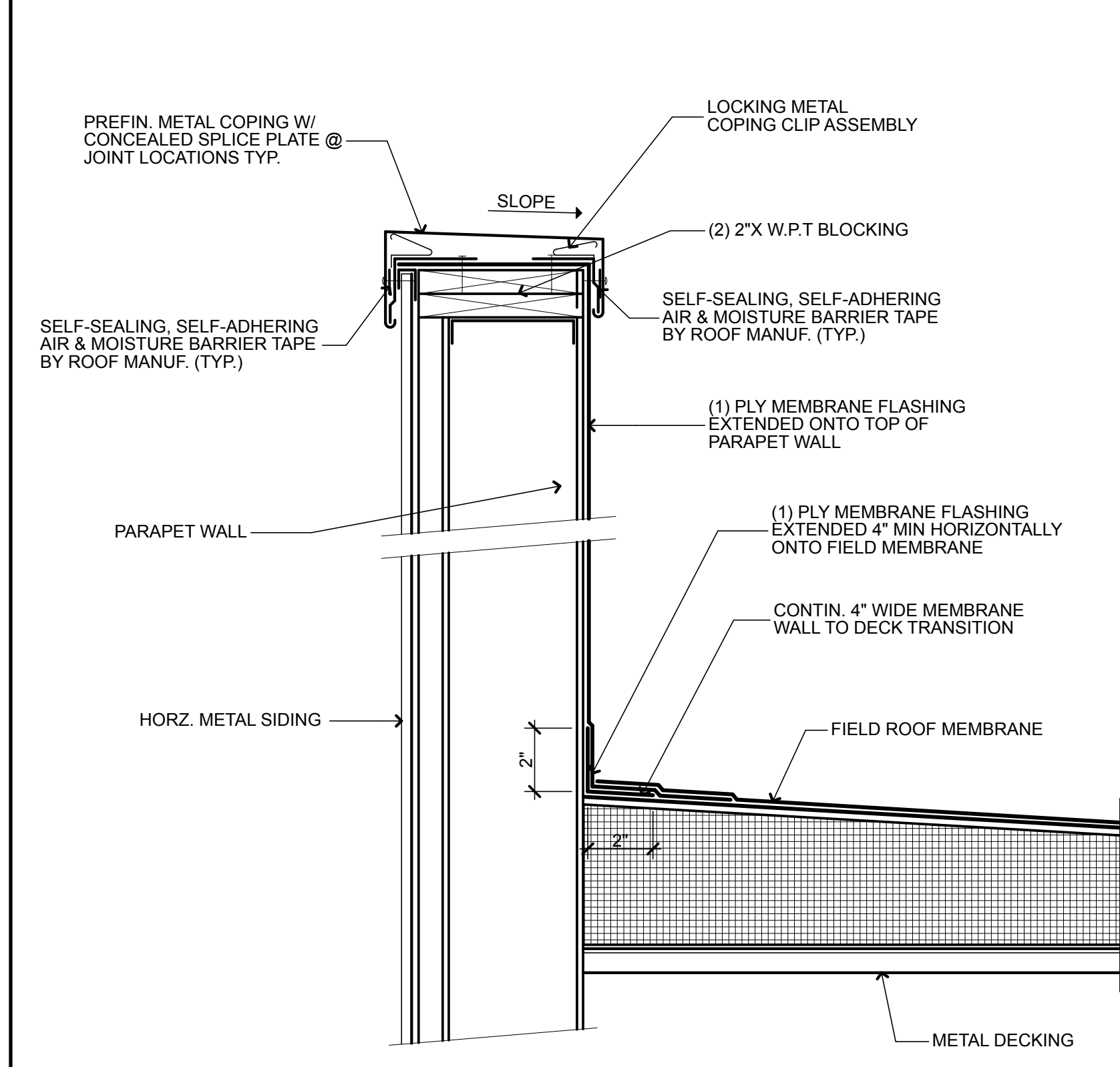
REVISION DATE:

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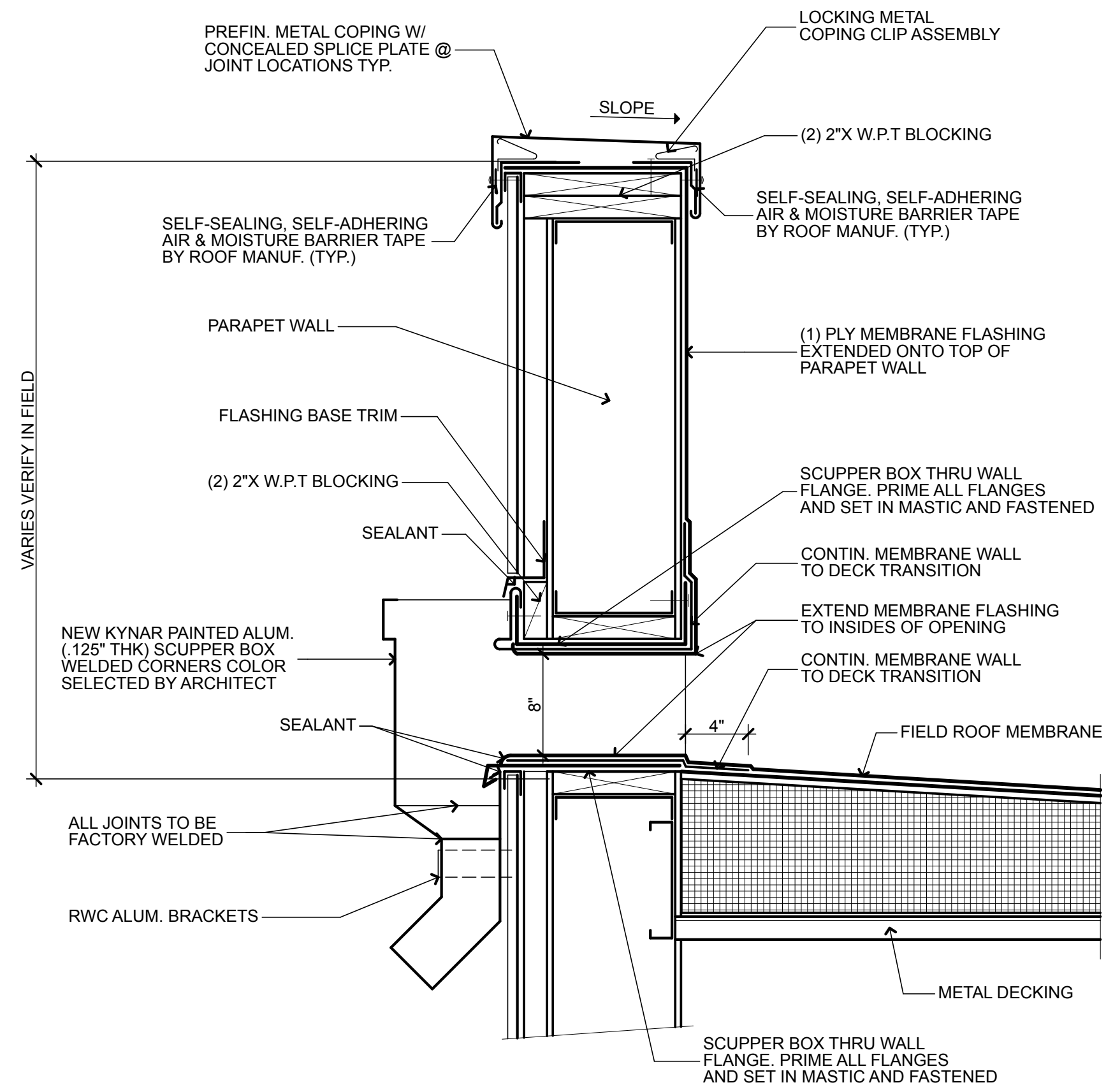
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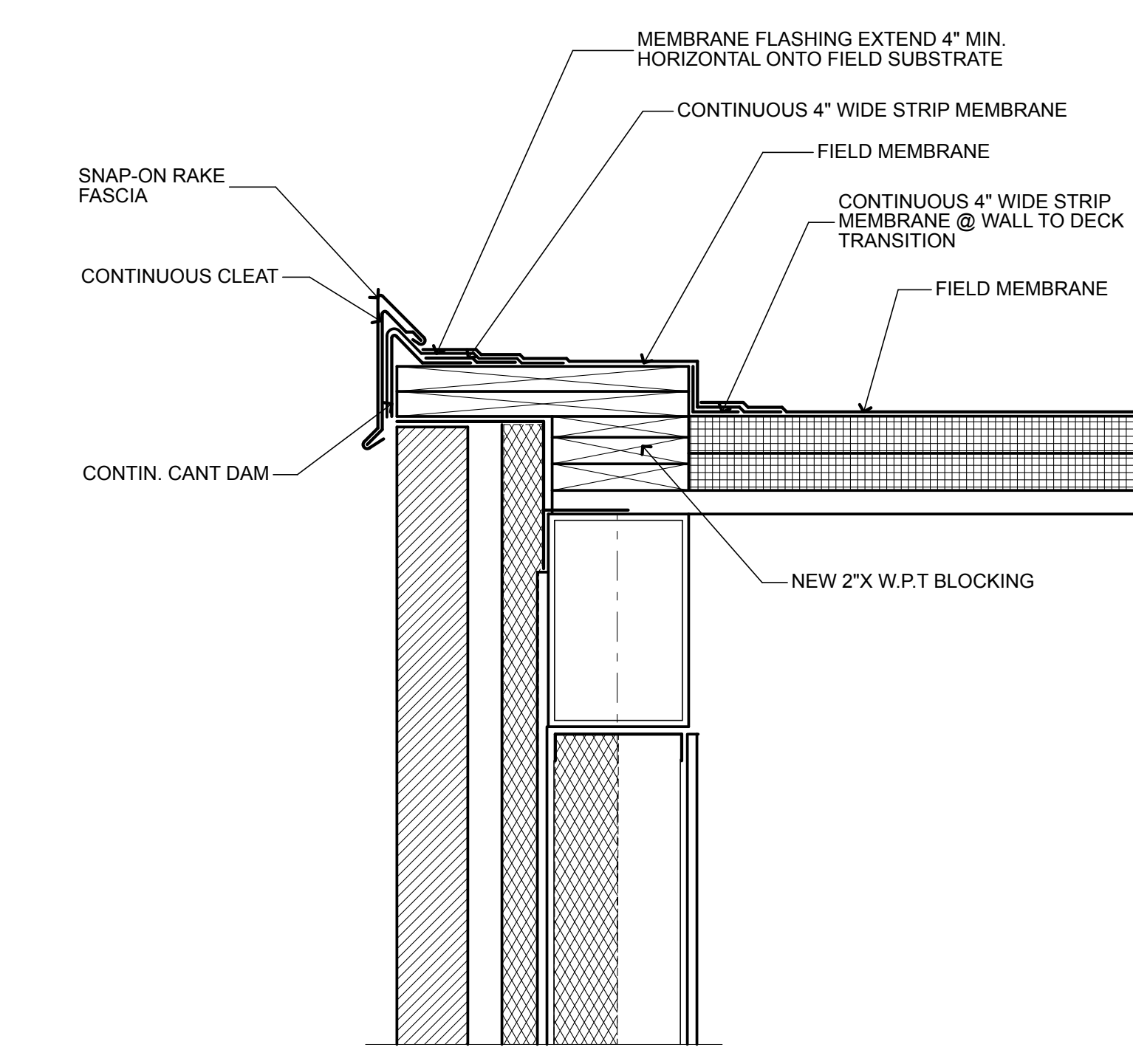
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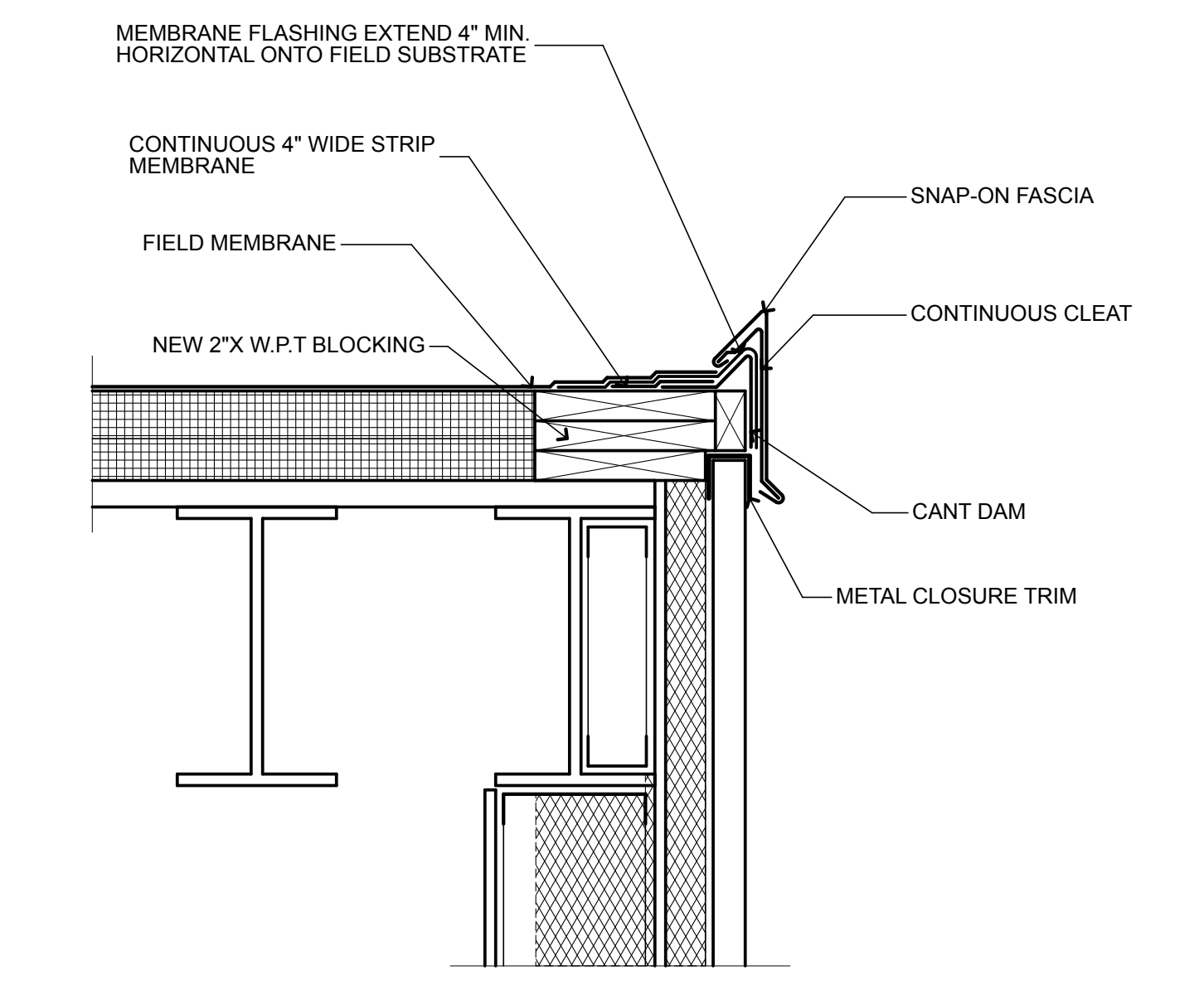
TYP. PARAPET WALL FLASHING NTS **09**



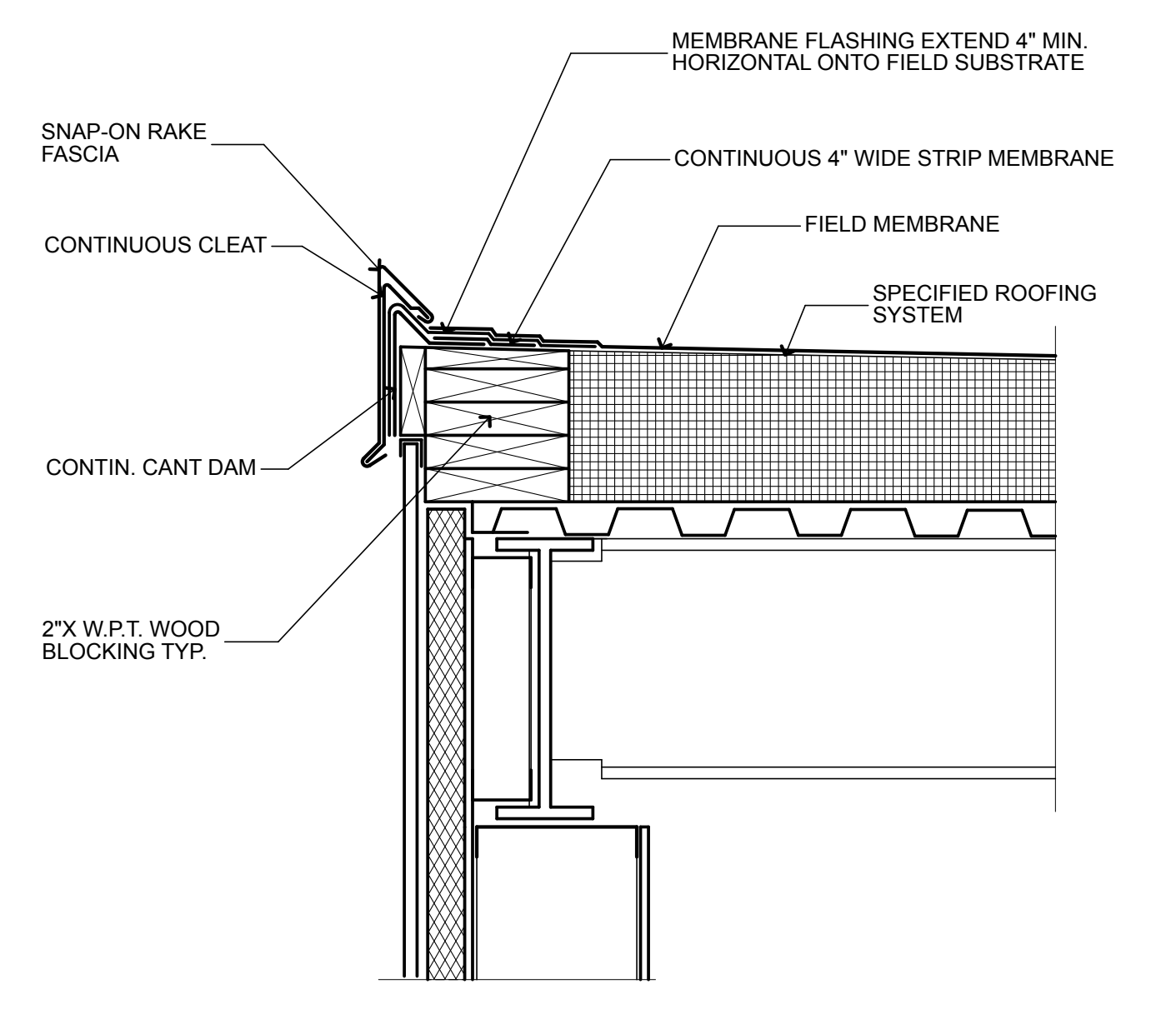
TYP. ROOF DRAIN/ SCUPPER DTL. NTS **10**



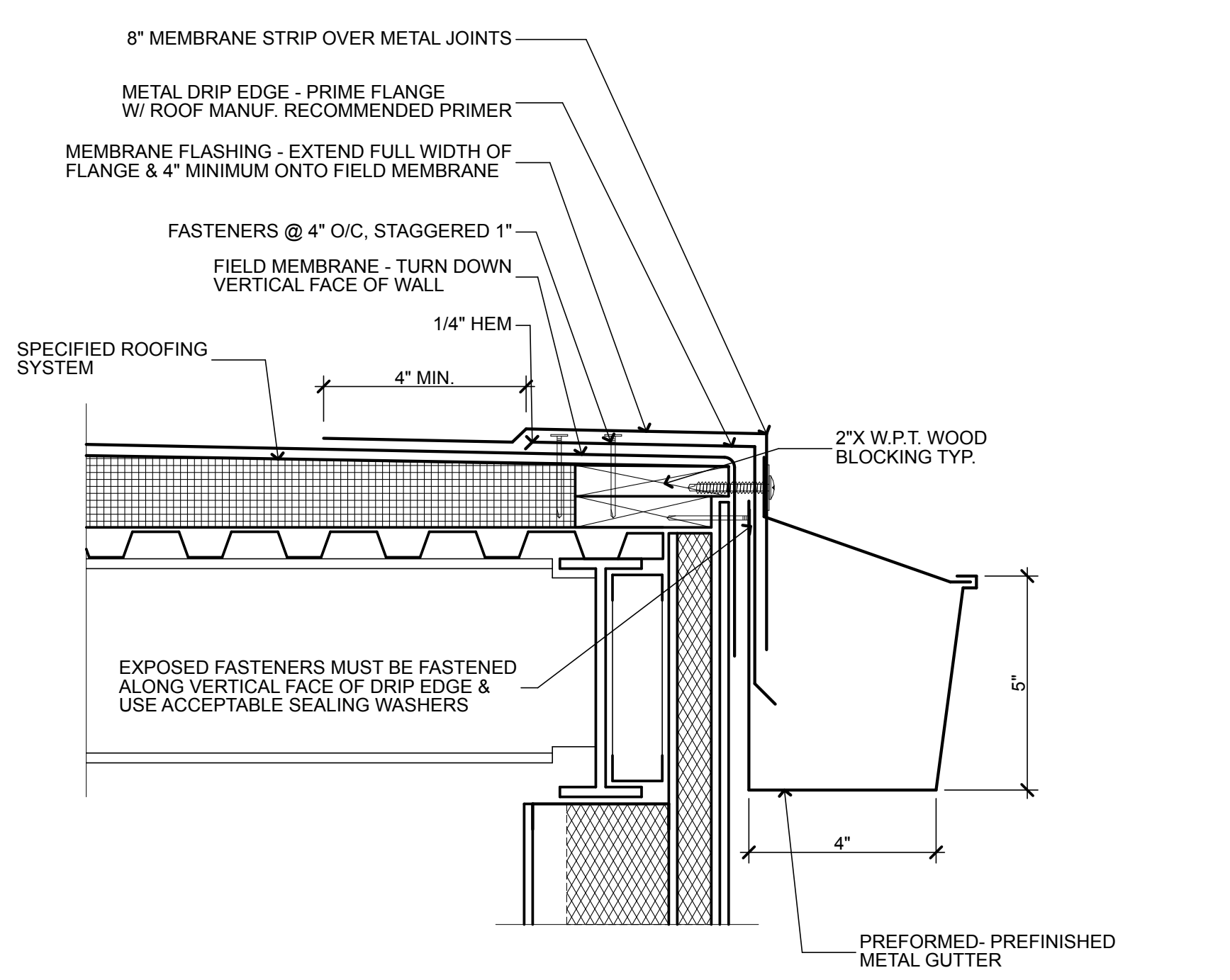
RAKE DETAIL NTS **11**



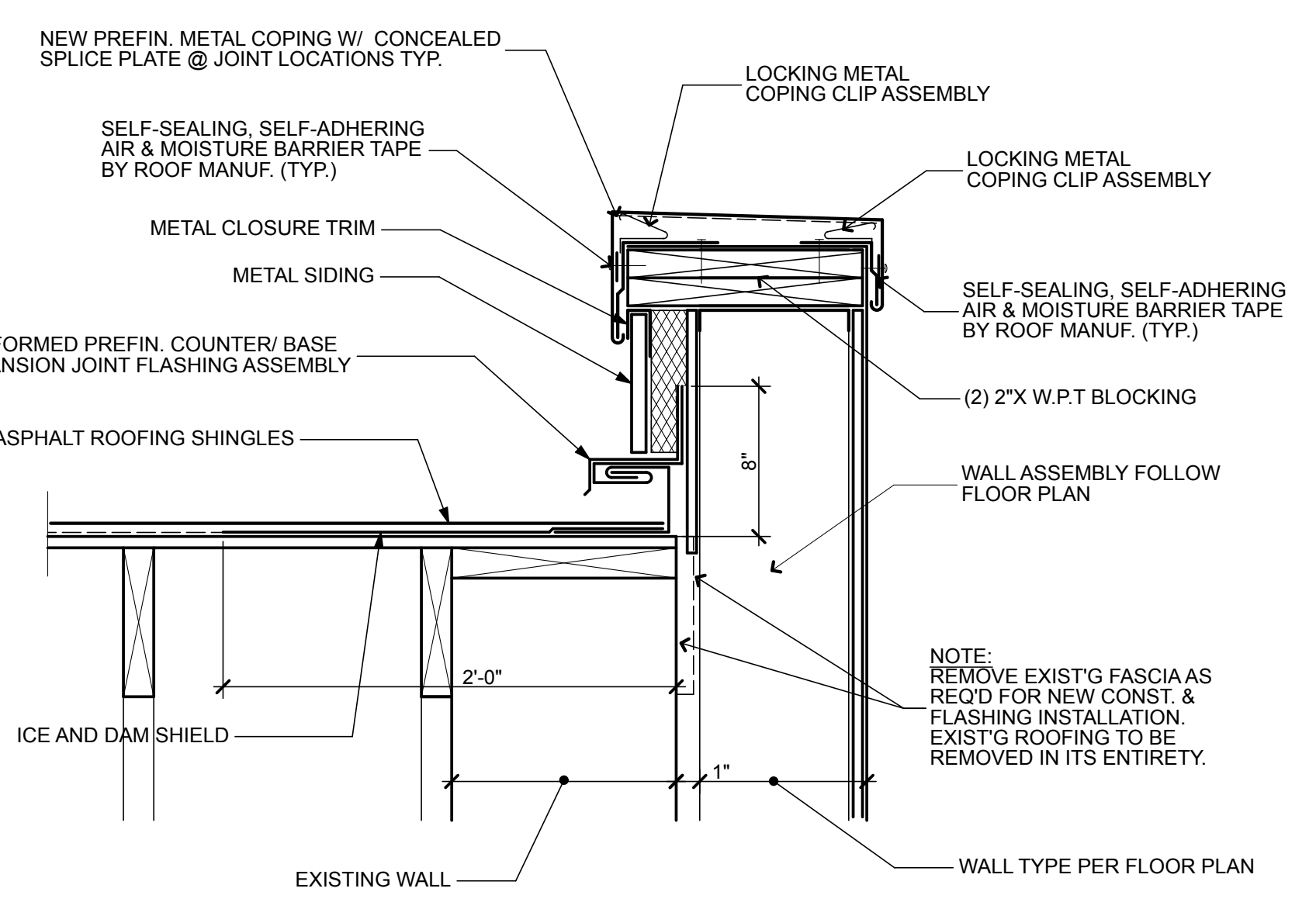
RAKE DETAIL NTS **12**



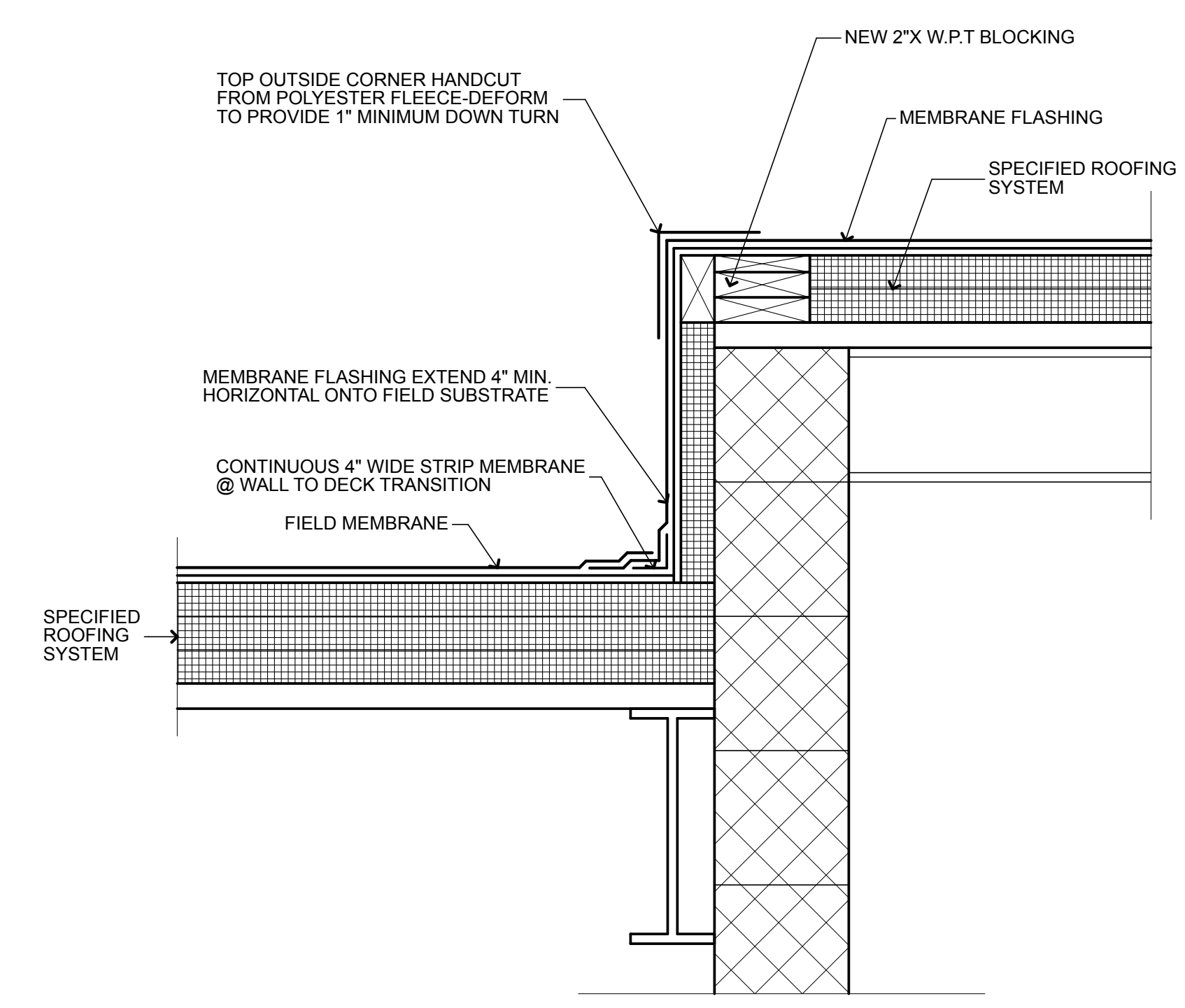
EAVE DETAIL NTS **13**



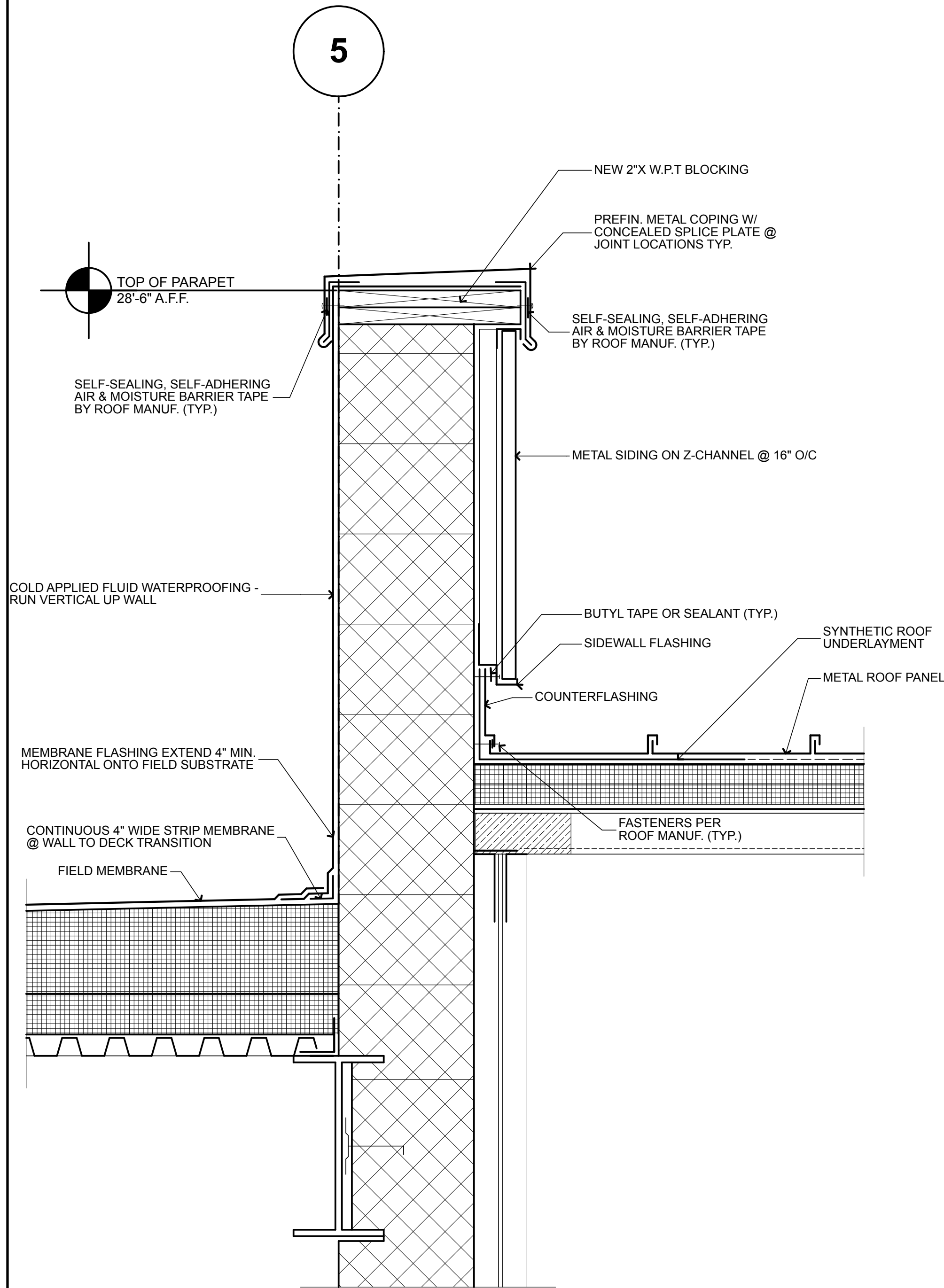
EAVE DETAIL NTS **14**



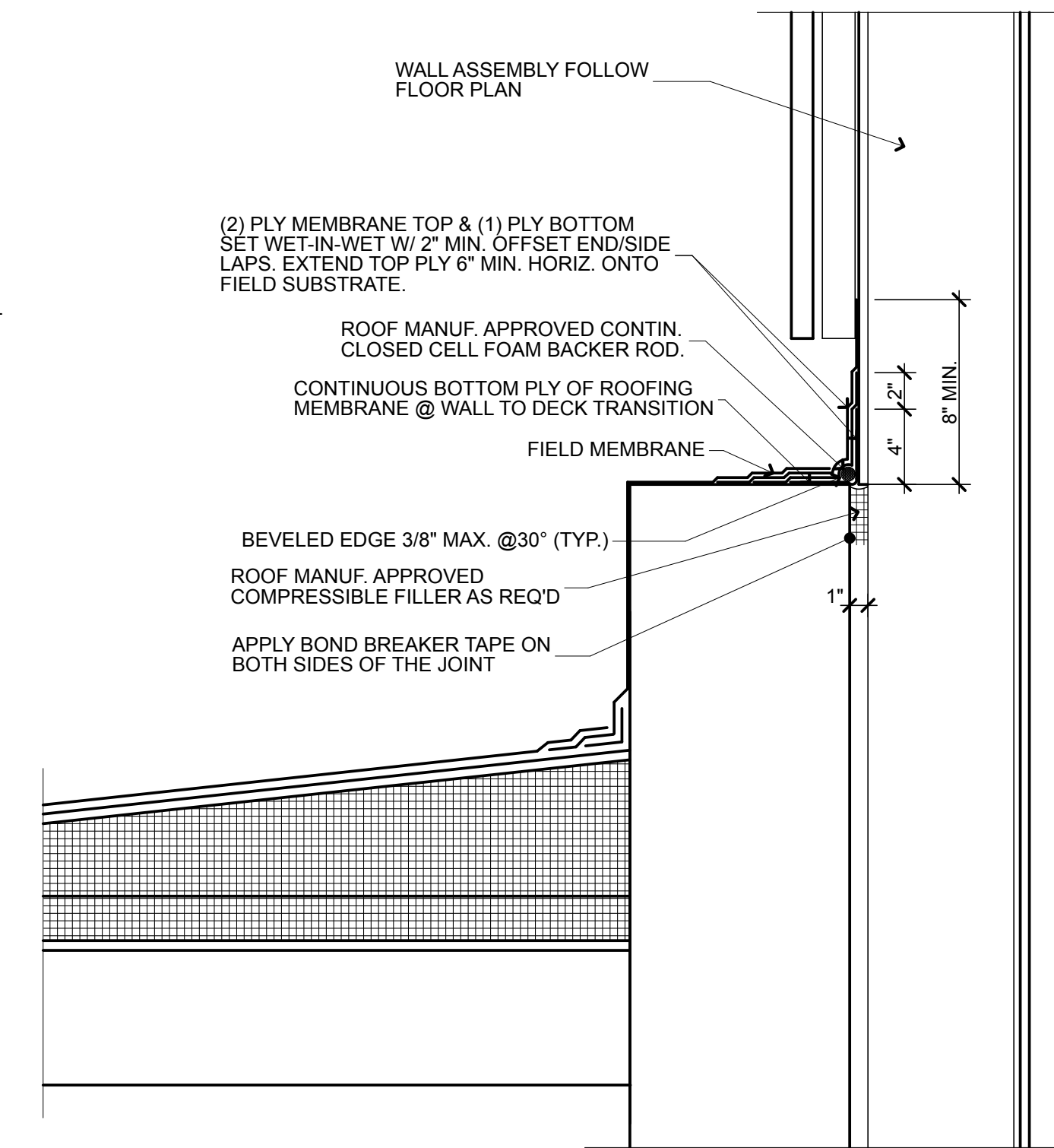
TYP. PARAPET WALL FLASHING NTS **15**



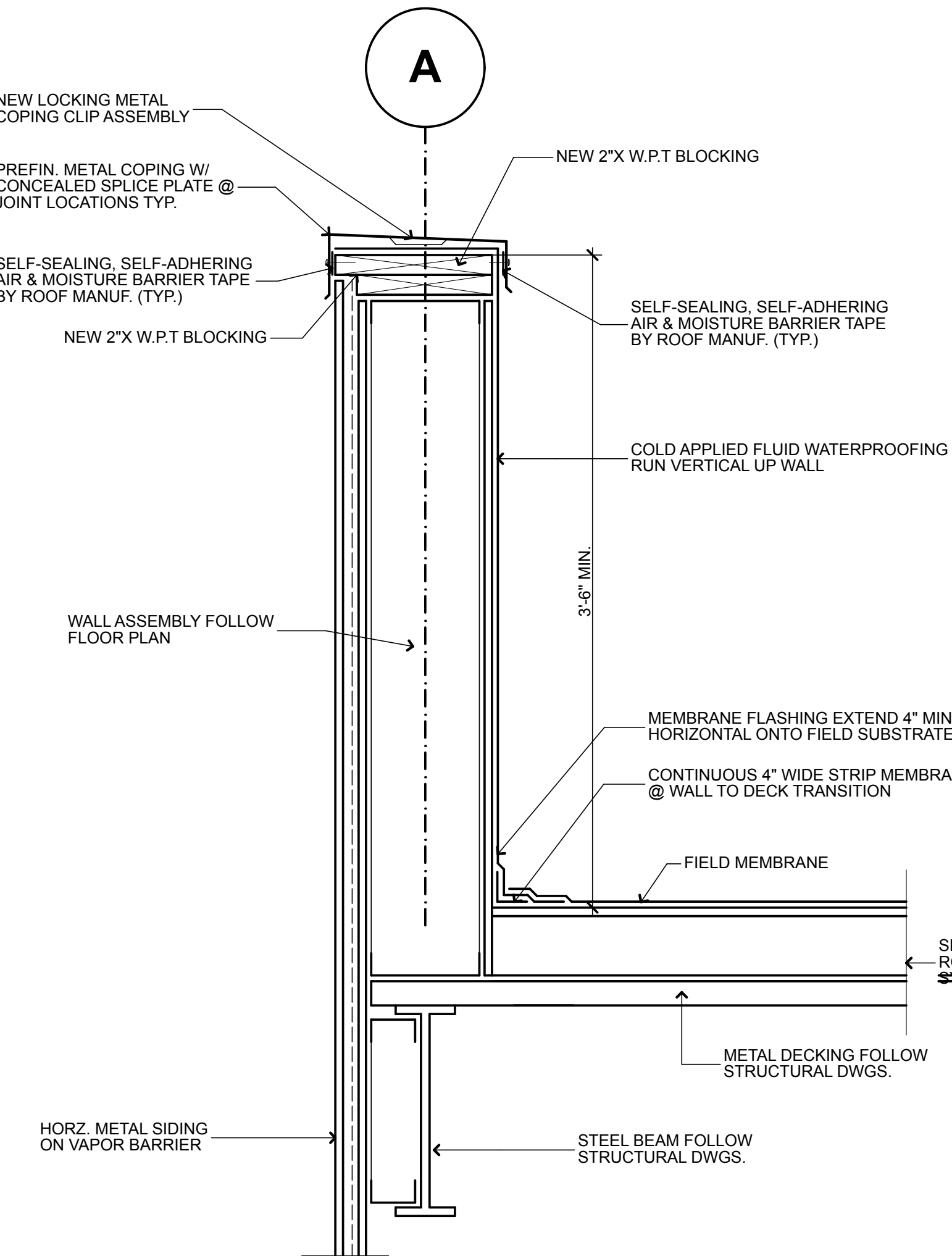
CURB/ WALL DETAIL NTS **16**



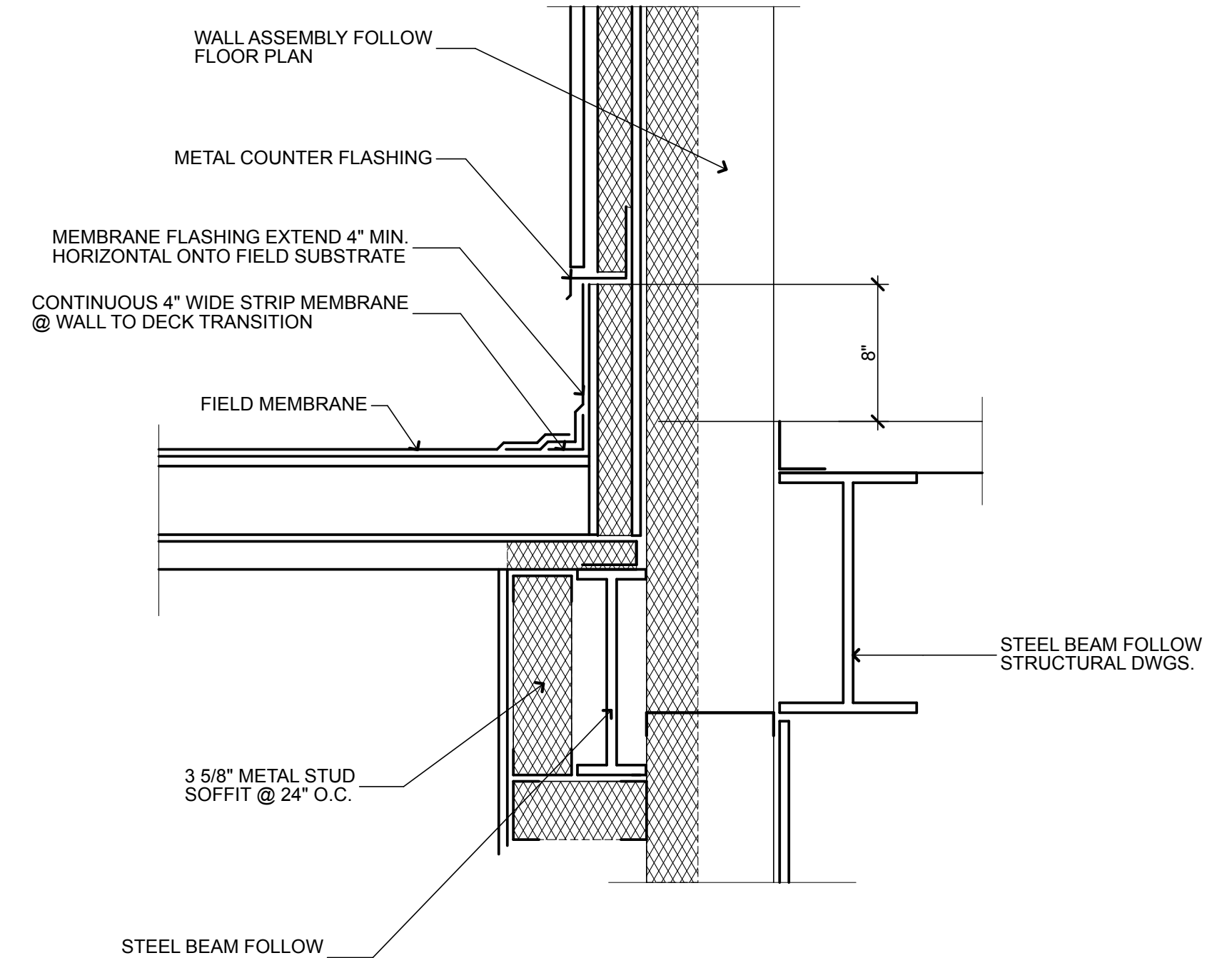
TYP. PARAPET WALL FLASHING NTS 17



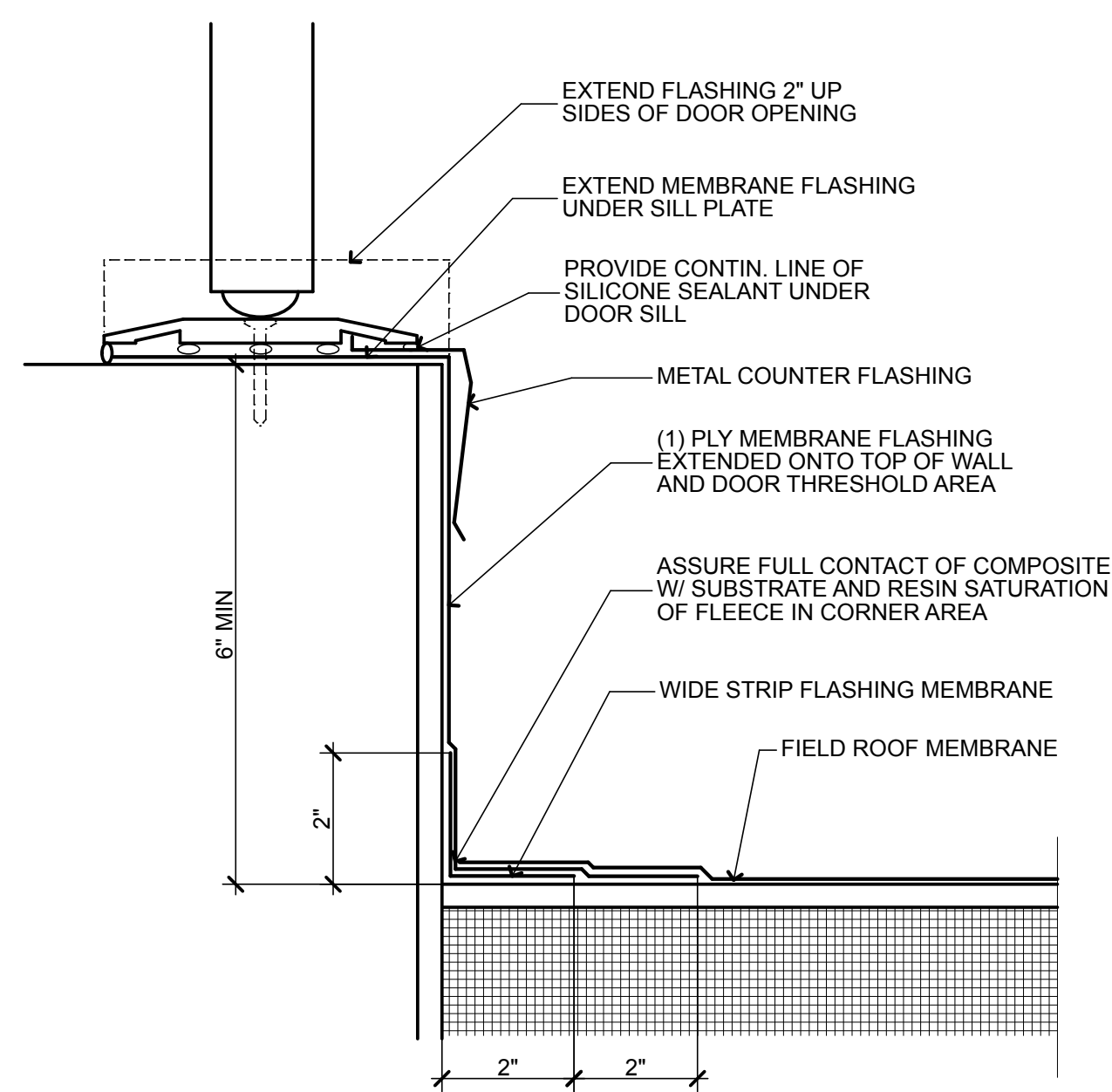
TYP. PARAPET WALL FLASHING NTS 18



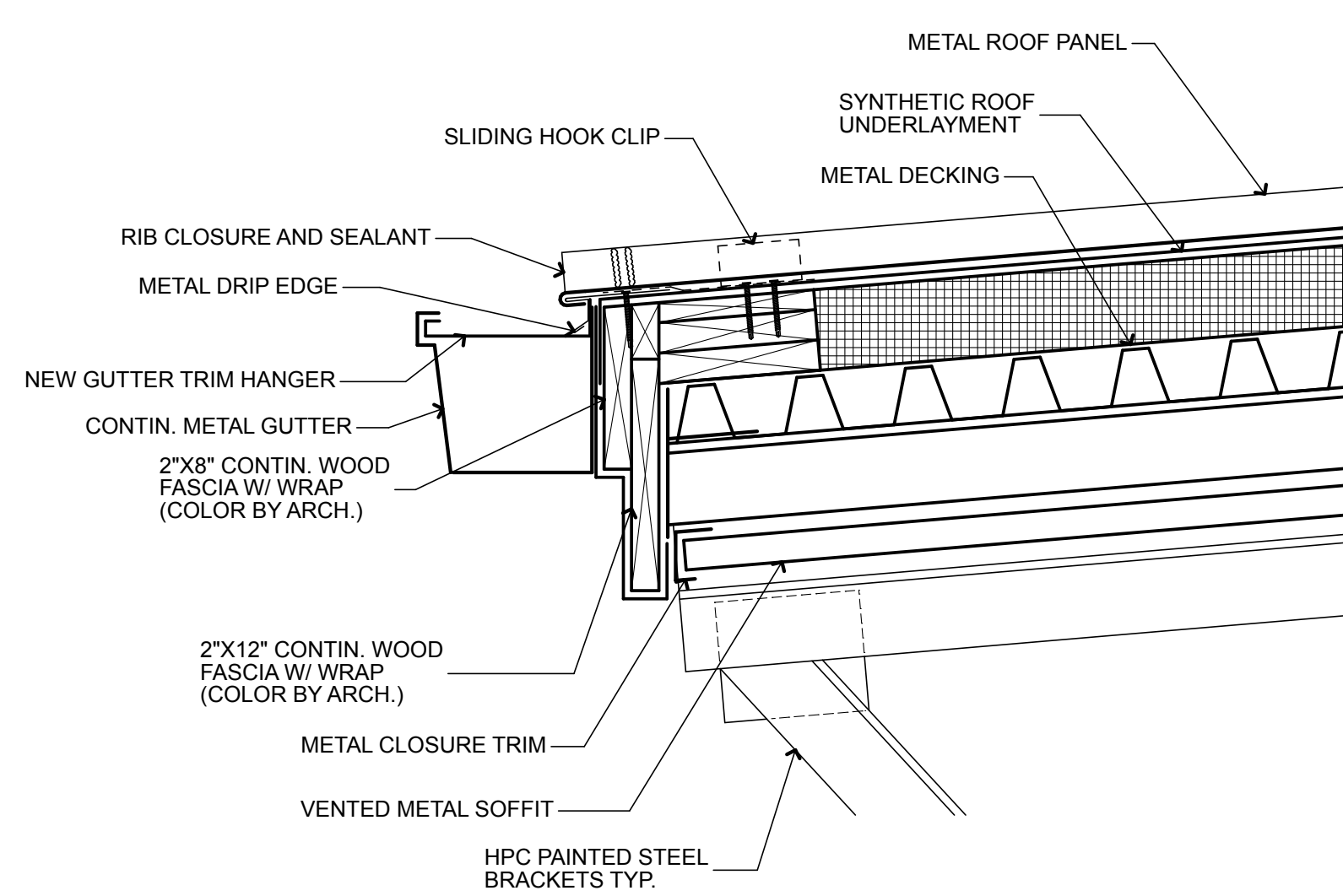
TYP. PARAPET WALL FLASHING NTS 19



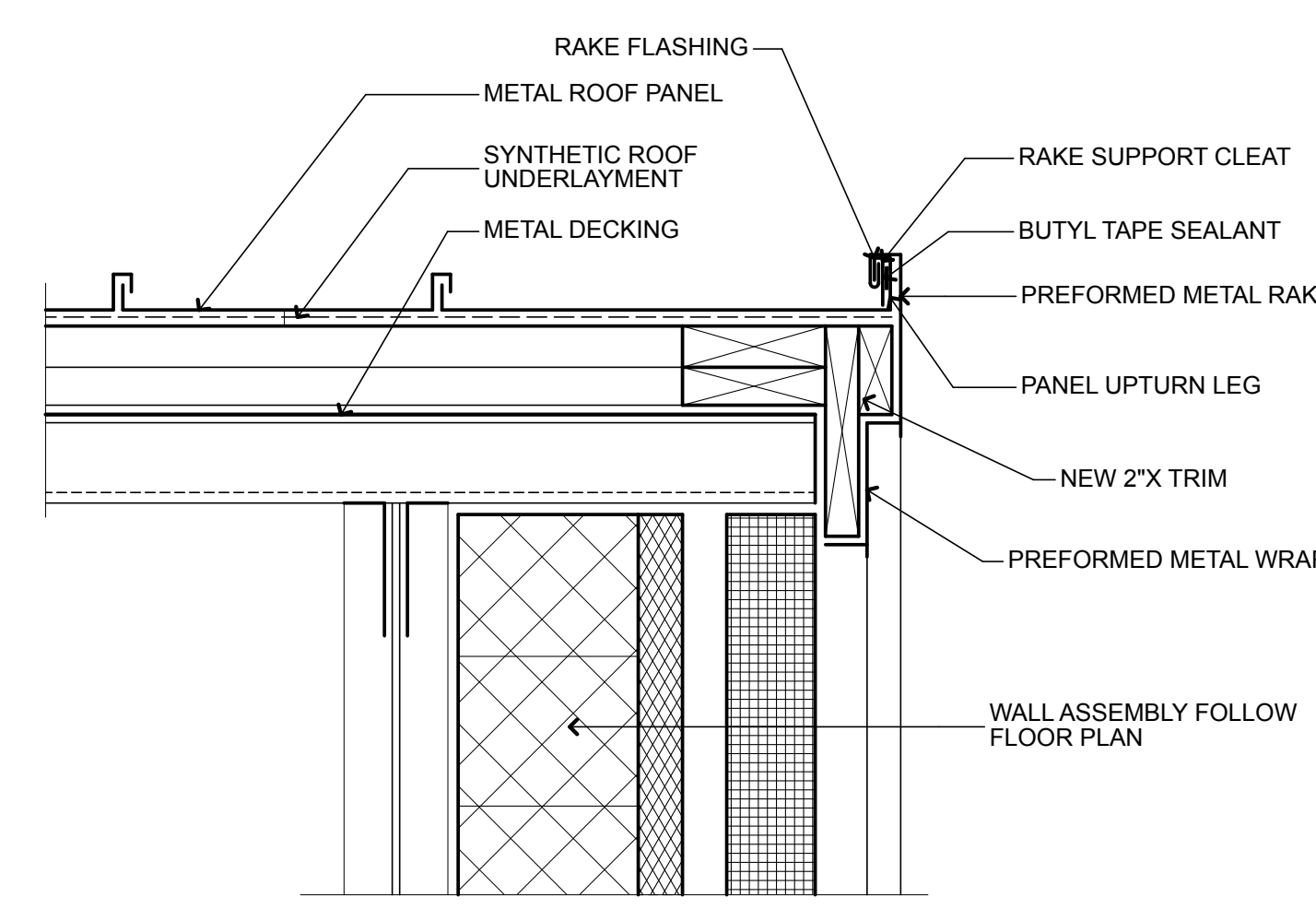
TYP. WALL FLASHING NTS 20



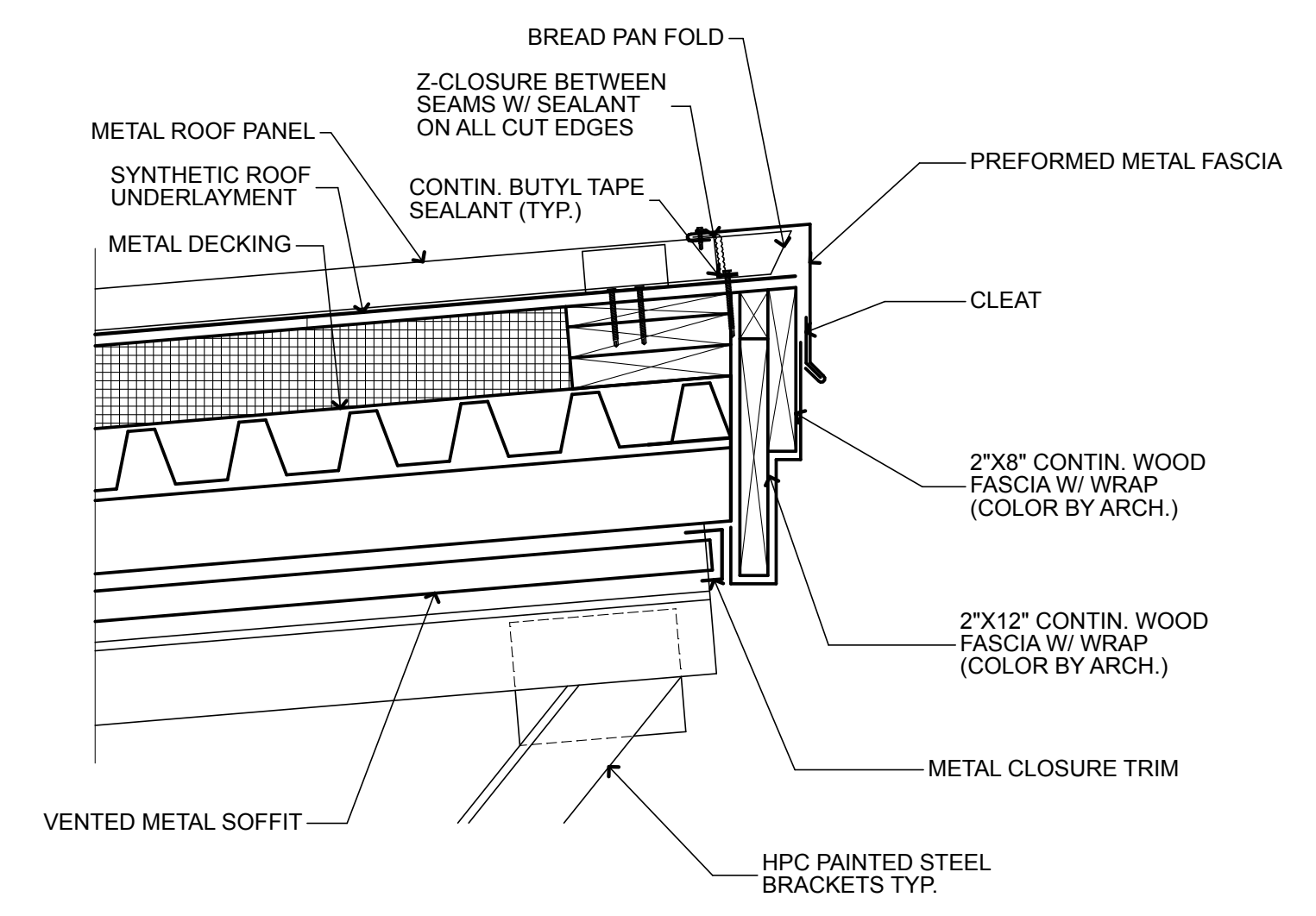
FLASHING DETAIL @ DOOR NTS 21



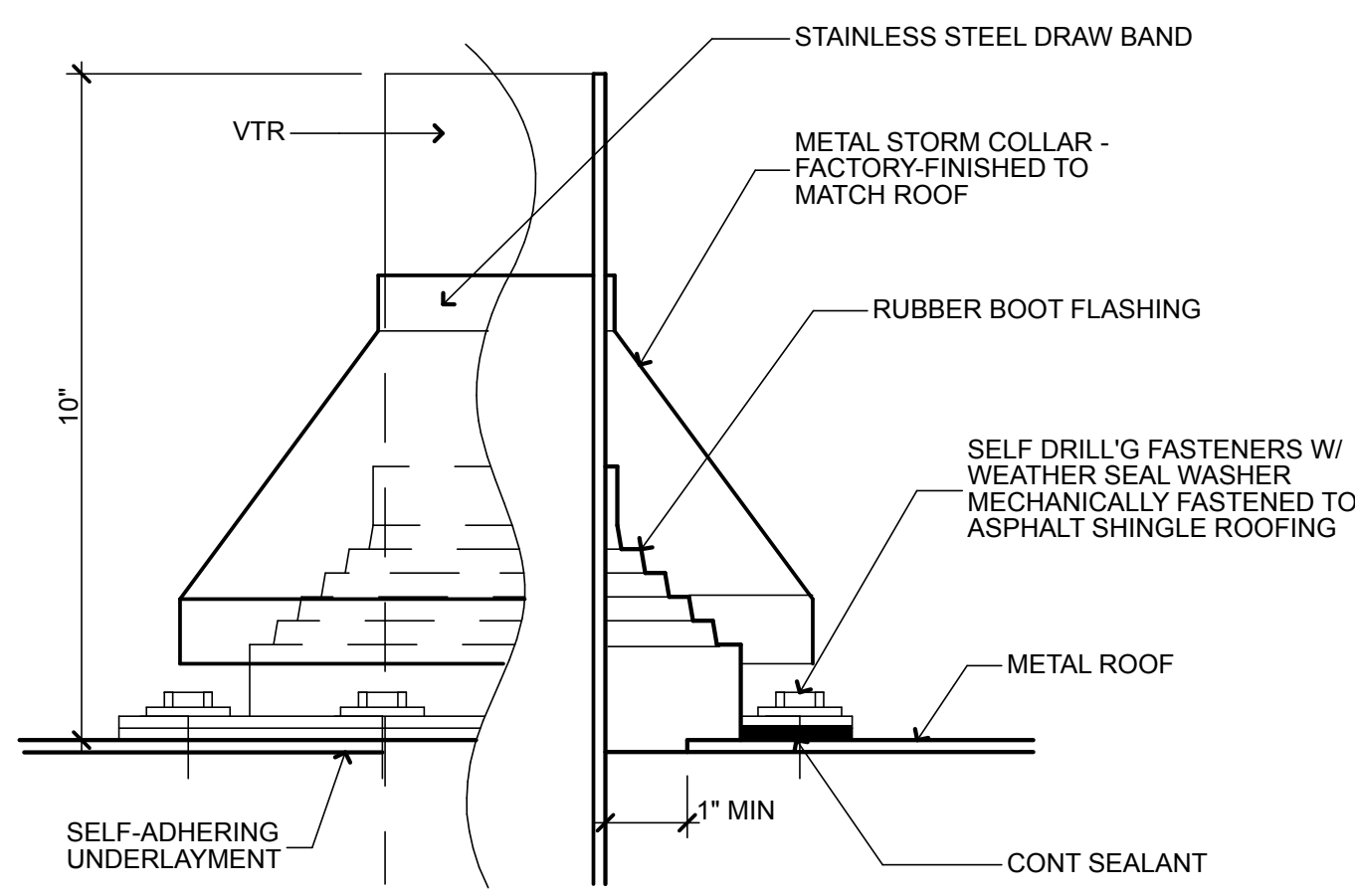
EAVE DETAIL NTS 22



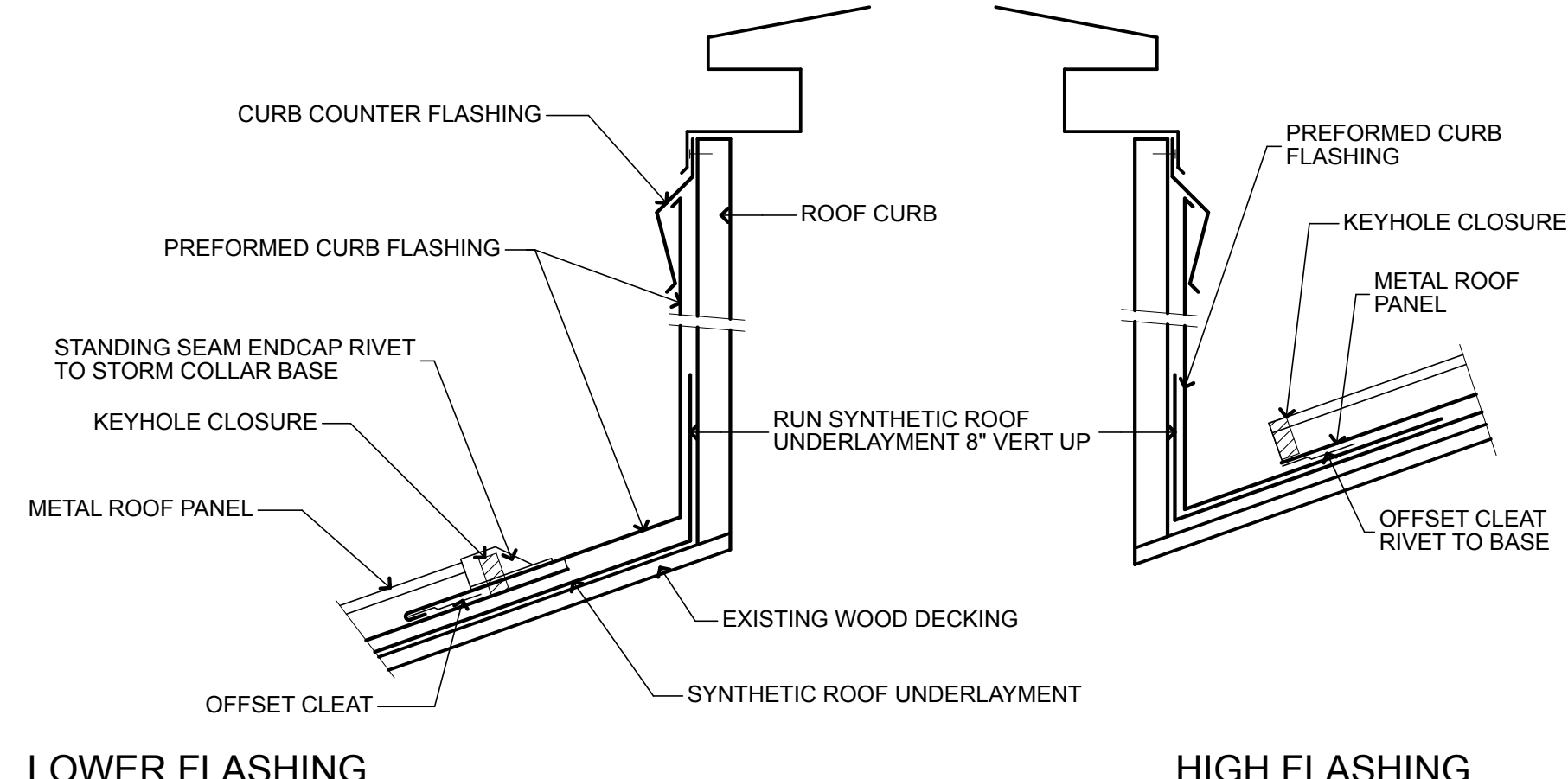
RAKE DETAIL NTS 23



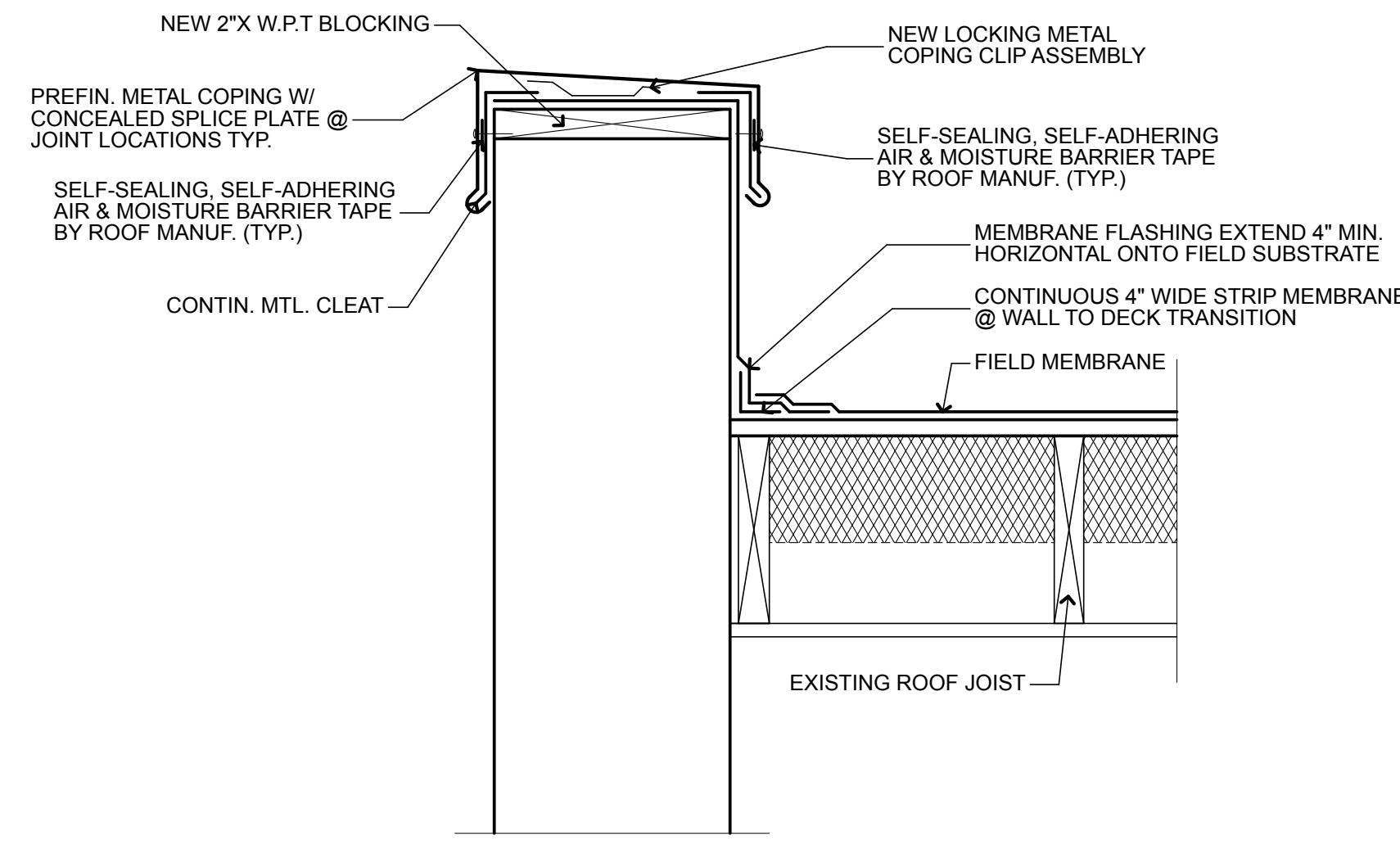
EAVE DETAIL NTS 24



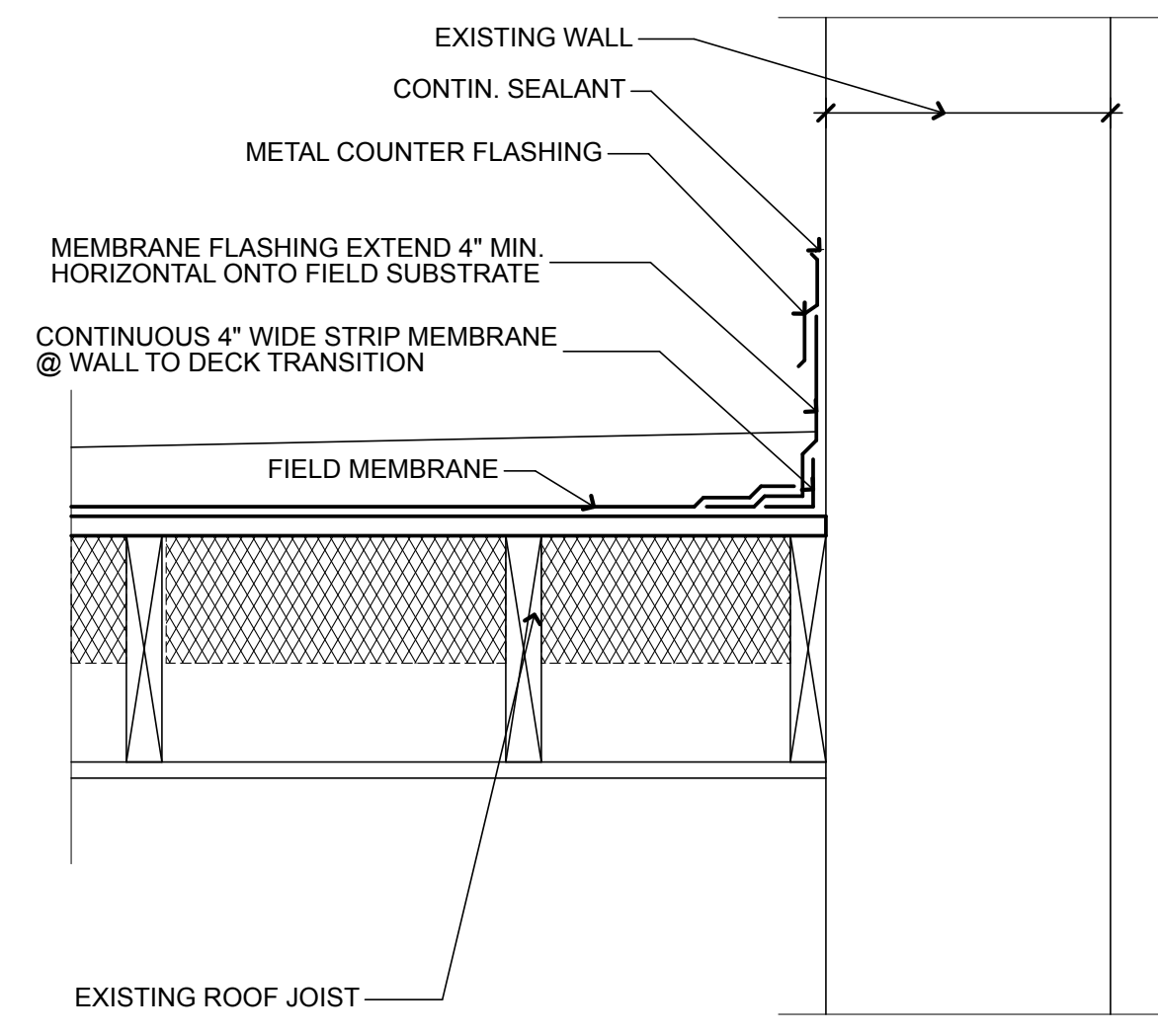
VENT THRU ROOF DTL. NTS **25**



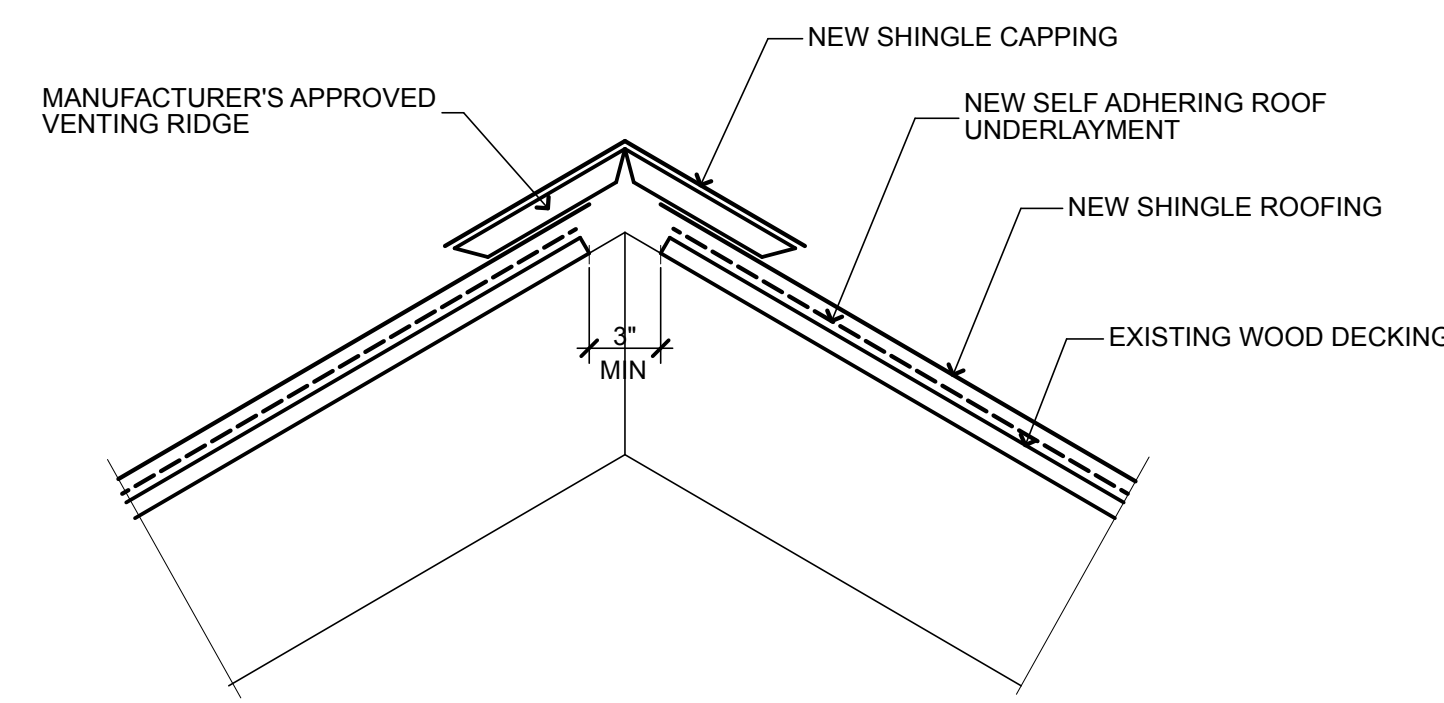
FLASHING DETAIL NTS **26**



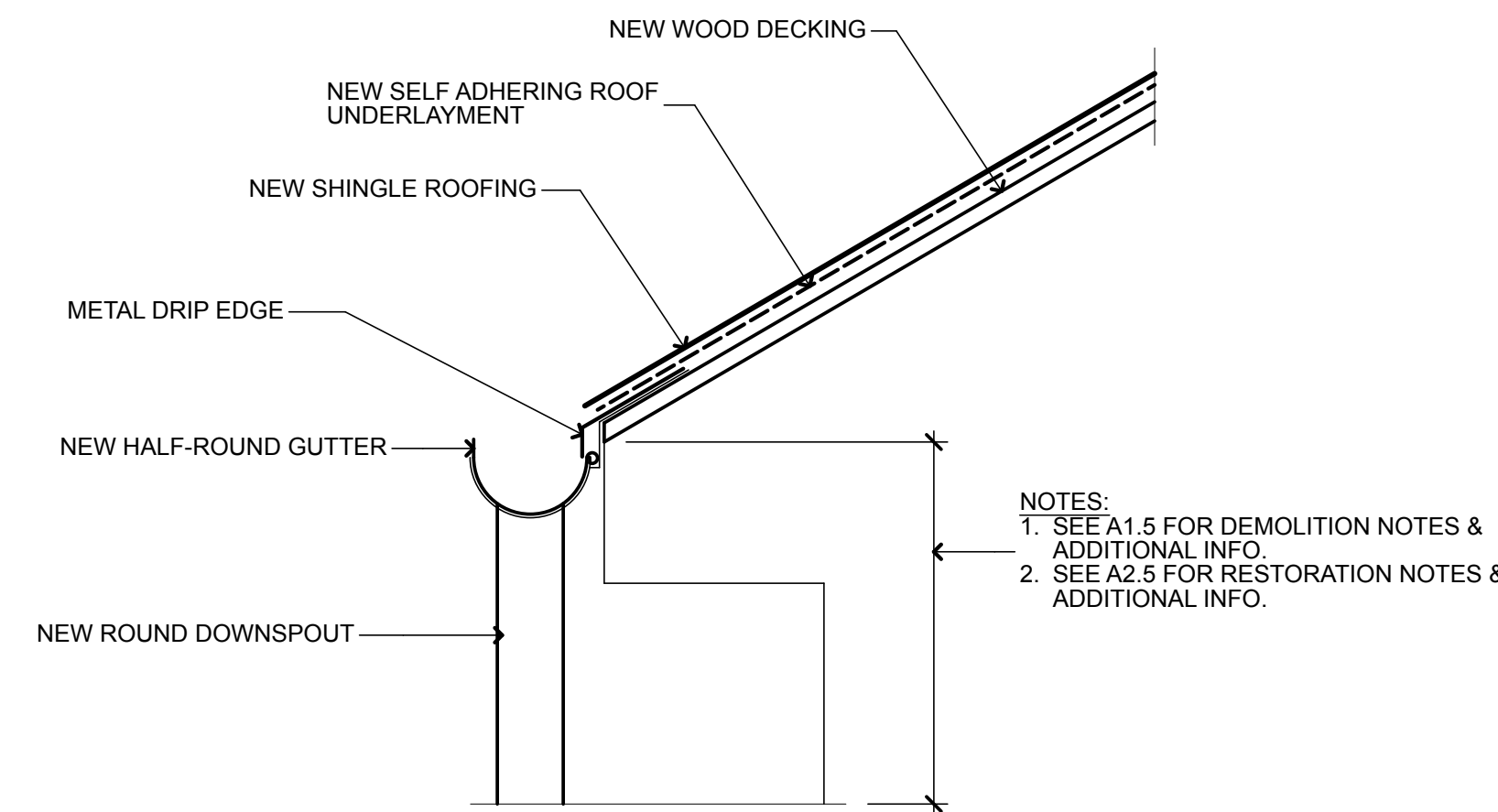
TYP. PARAPET WALL FLASHING NTS **27**



TYP. WALL FLASHING NTS **28**

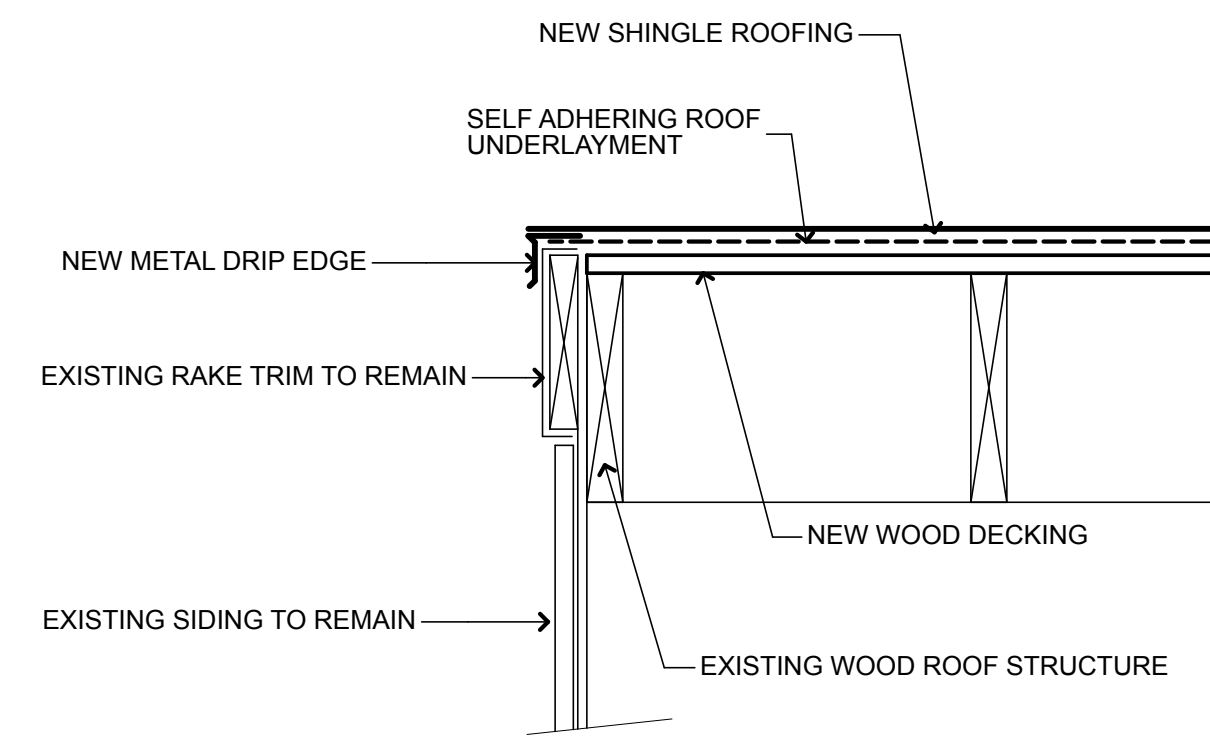


VENTED RIDGE NTS **29**

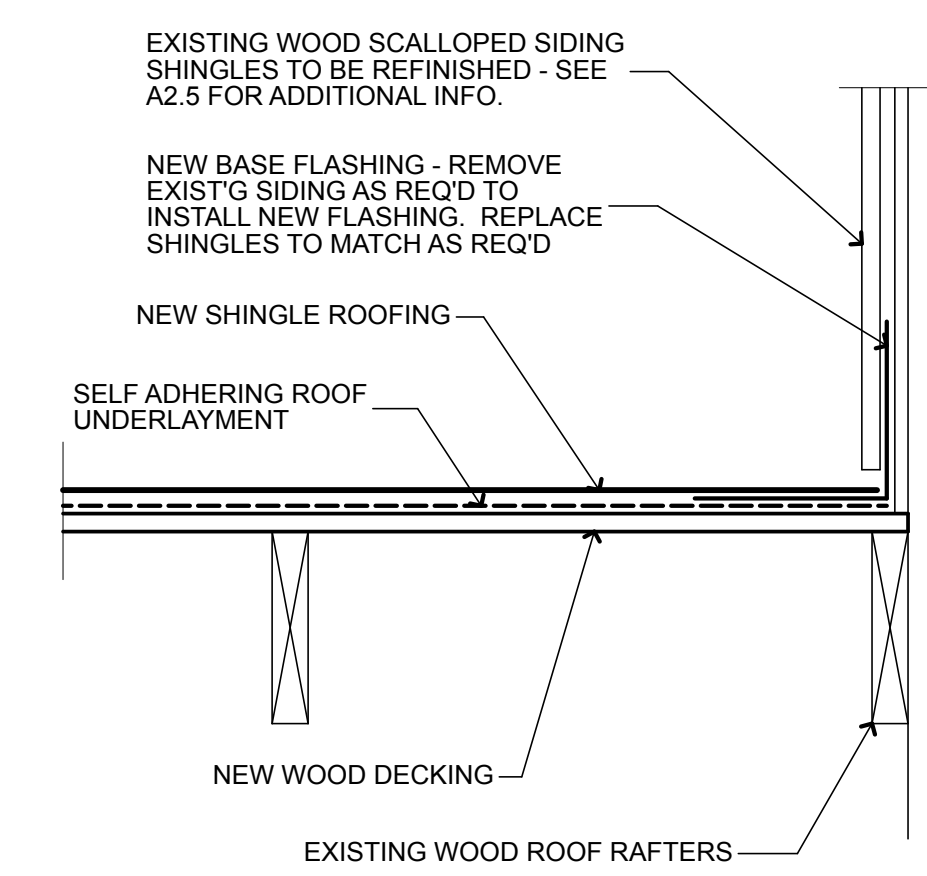


EAVE NTS **30**

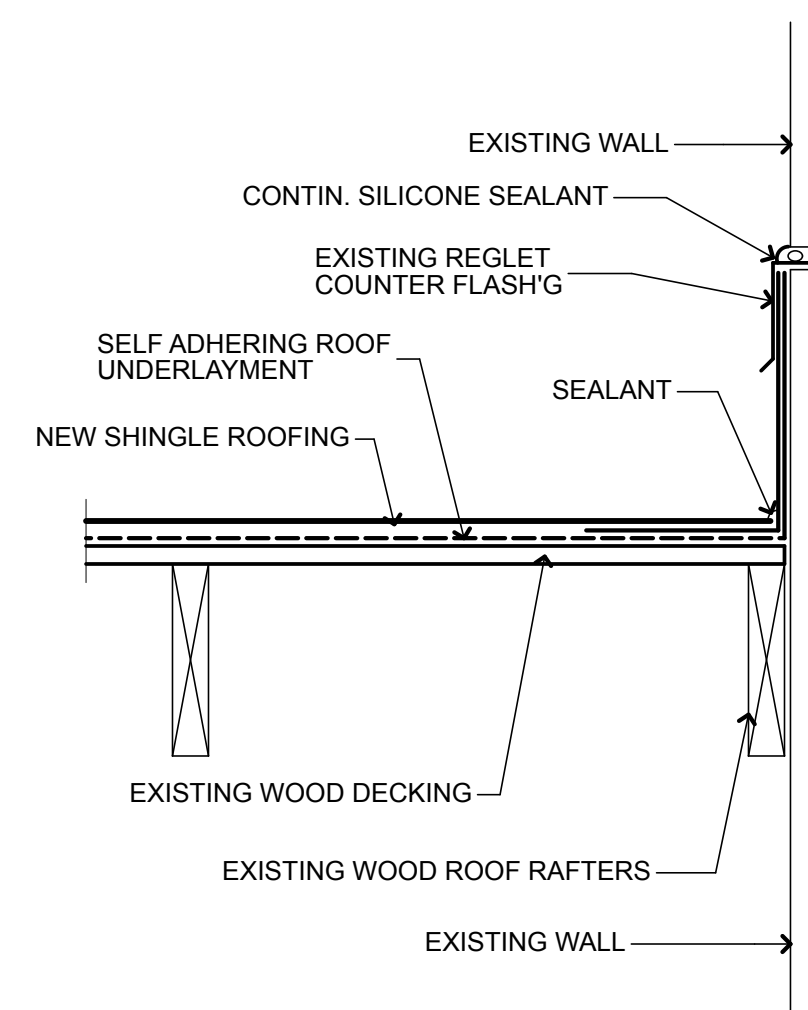
NOTES:
1. SEE A1.5 FOR DEMOLITION NOTES & ADDITIONAL INFO.
2. SEE A2.5 FOR RESTORATION NOTES & ADDITIONAL INFO.



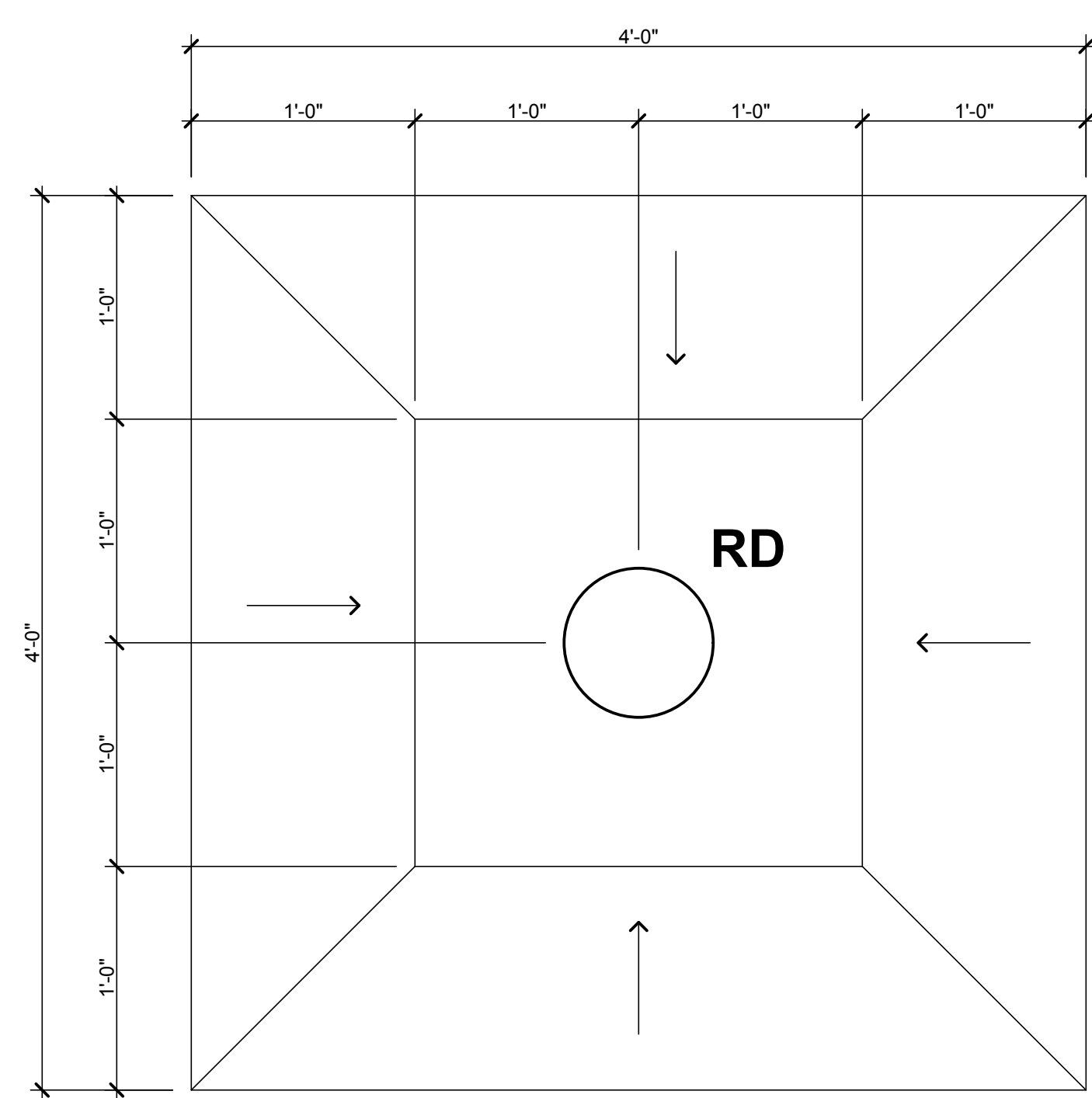
RAKE NTS **31**



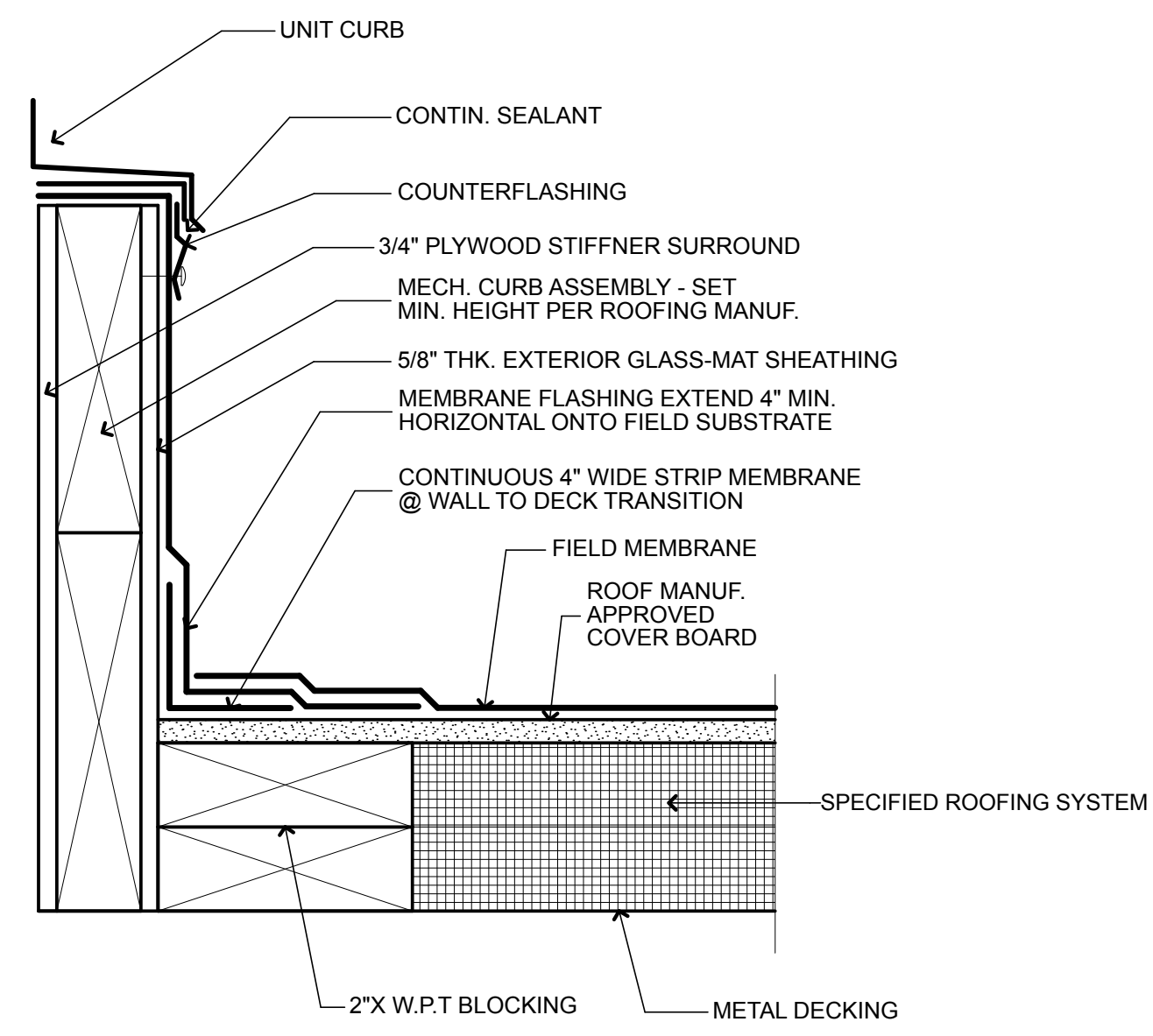
SIDEWALL FLASHING DTL. NTS **32**



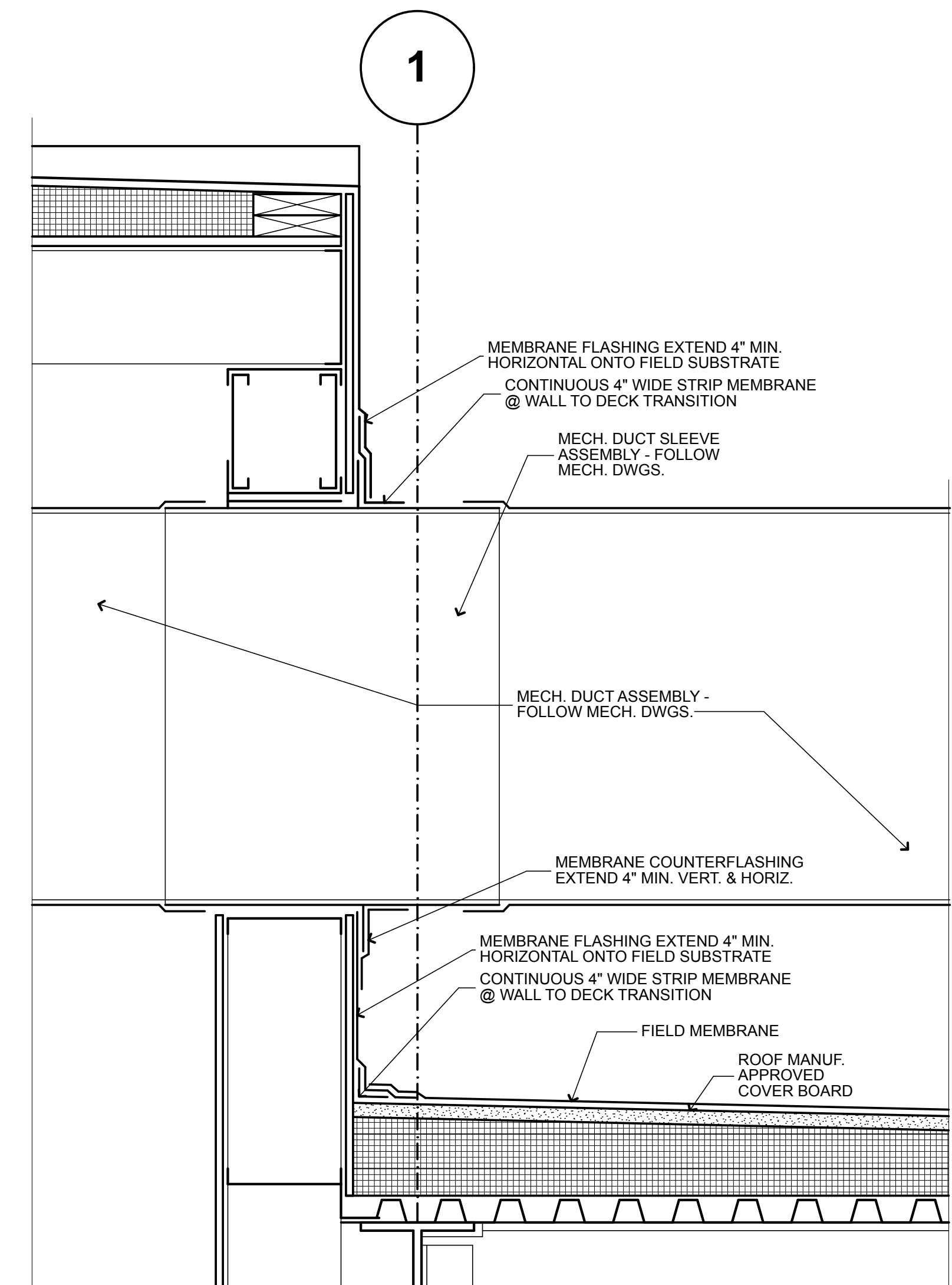
SIDEWALL FLASHING DTL. NTS **33**



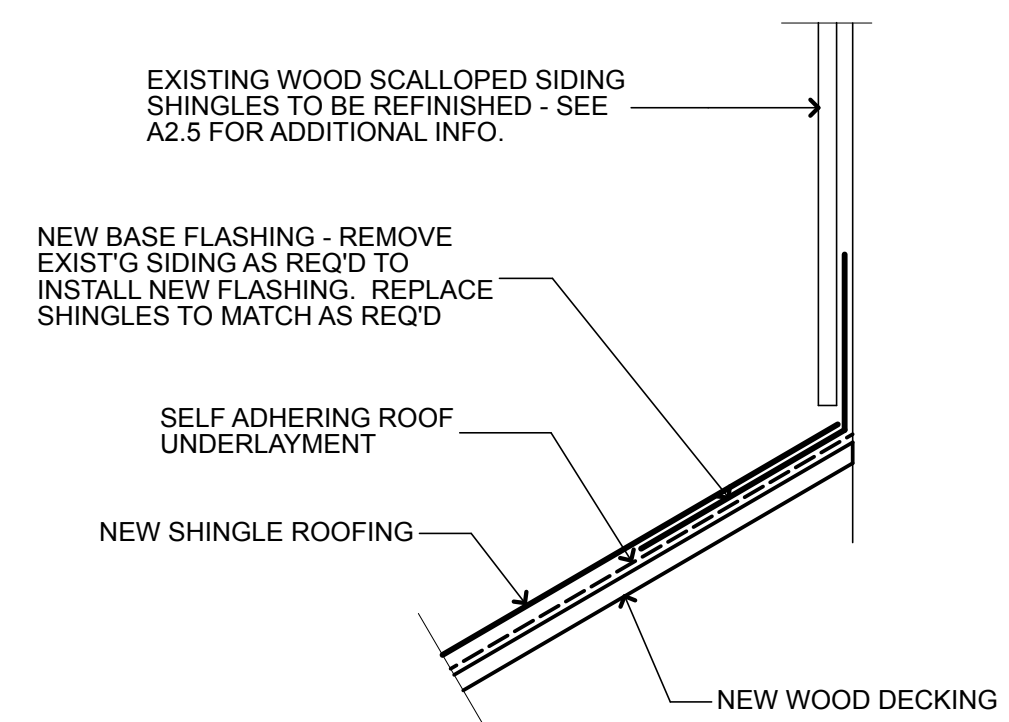
TYP. ROOF DRAIN LAYOUT NTS **35**



EQUIPMENT CURB FLASHING DTL. NTS **36**



MECH. DUCT FLASHING DTL. NTS **37**



FLASHING DETAIL NTS **34**

REGAN YOUNG, AIA
21A00912100

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
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RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY

TITLE **ROOF DETAILS**

DRAWING DATE:
01 JULY 2020

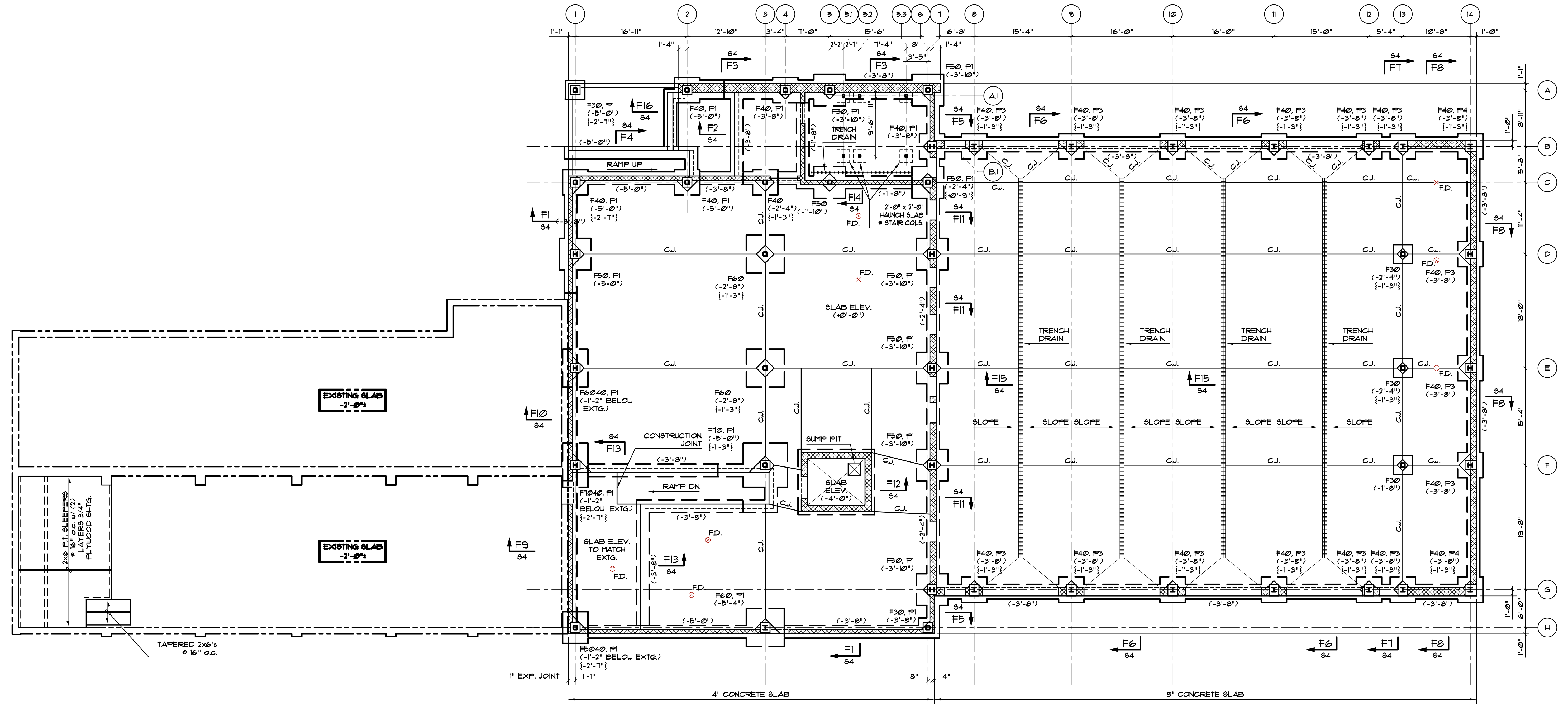
REVISION DATE:

DRAWN BY:
RR

COMMISSION NO.:
5475B

A5.3

37 OF 37



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

ELEVATION TOP OF FINISHED FLOOR SLAB: +5.10' REFERRED TO AS DATUM
 EL. 0'-0" UNLESS OTHERWISE NOTED ON PLAN.
 FLOOR SLAB: 4" CONC. SLAB + 6x6-W/4x4 W/WF. ON A VAPOR BARRIER
 OVER 6" MIN. DRAINAGE FILL UNLESS OTHERWISE NOTED.
 EQUIPMENT BAY FLOOR SLAB: 8" CONC. SLAB + (2) LAYERS OF 6x6-W/2x2 W/WF. ON A
 VAPOR BARRIER OVER 6" MIN. DRAINAGE FILL UNLESS OTHERWISE NOTED.
 ELEVATION BOTTOM OF FOOTINGS NOTED THIS () ON PLAN BELOW
 FINISHED FLOOR DATUM EL. 0'-0"
 C.J. - INDICATES SLAB CONSTRUCTION OR CONTROL JOINT.
 SLAB DEPRESSIONS NOTED THIS [] ON PLAN FROM TOP OF FLOOR
 SLAB - SEE ARCH. DRGS. FOR LOCATION & EXTENT.
 B.S.E. [] - INDICATES BOTTOM OF BASE PLATE ABOVE OR BELOW DATUM.
 ANY PENETRATIONS IN SLAB FROM ALL TRADES TO BE FILLED
 WITH POLYURETHANE CAULK.

MARK	SIZE	REINFORCEMENT
F30	3'-0" x 3'-0" x 12"	(3) - #4 E.W. BOT.
F40	4'-0" x 4'-0" x 12"	(4) - #5 E.W. BOT.
F50	5'-0" x 5'-0" x 14"	(5) - #5 E.W. BOT.
F60	6'-0" x 6'-0" x 16"	(6) - #5 E.W. BOT.
F70	7'-0" x 7'-0" x 20"	(7) - #5 E.W. BOT.
F80	8'-0" x 8'-0" x 20"	(8) - #5 E.W. BOT.
F10	1'-0" x 4'-0" x 14"	(4) - #5 L.W. BOT. (5) - #5 S.W. BOT.
F6040	6'-0" x 4'-0" x 14"	(4) - #5 L.W. BOT. (6) - #5 S.W. BOT.
F1040	7'-0" x 4'-0" x 14"	(4) - #5 L.W. BOT. (7) - #5 S.W. BOT.

MARK	SIZE	REINFORCEMENT	REMARKS
P1	18" x 18"	(4) - #6 VERT.	
P2	20" x 20"	(6) - #6 VERT.	
P3	18" x 22"	(6) - #6 VERT.	
P4	22" x 22"	(8) - #6 VERT.	

NOTE:
 ALL PIERS TO HAVE #3 TIES @ 12" O.C. (TYPICAL).
 PROVIDE BRICKSHELF AS REQUIRED. SEE TYPICAL BRICKSHELF
 DETAIL ON DRAWING S-1.

NOTE:
 SEE THE GEOTECHNICAL ENGINEERING SERVICES REPORT
 PREPARED BY PENNONI, DATED AUGUST 28, 2017 FOR
 REQUIREMENTS CONCERNING PREPARATION OF SOIL FOR
 FOUNDATIONS.

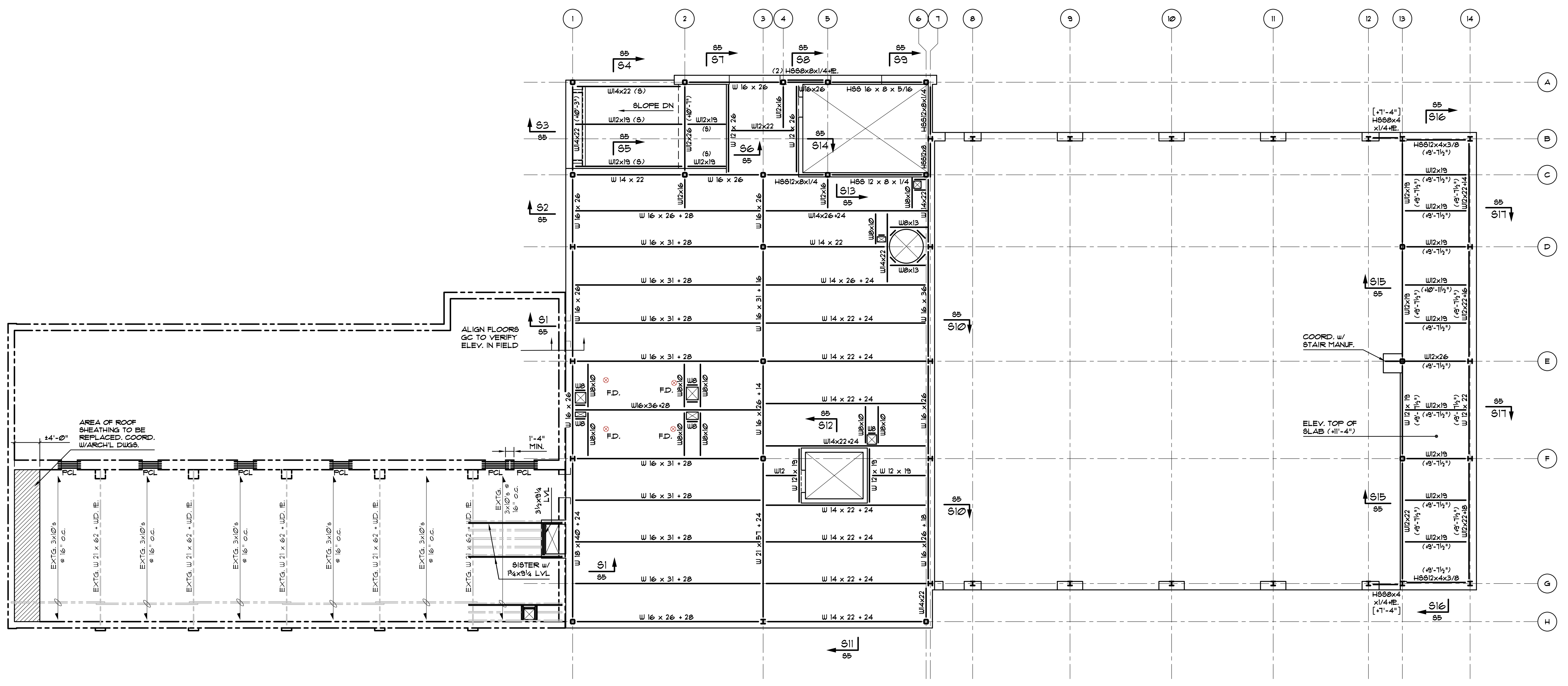
NOTE:
 1. STEP ALL FOOTINGS AT ALL PIPES & CONDUITS. SEE
 TYPICAL DETAIL ON SHEET S-1.
 2. GO TO VERIFY ALL LOCATIONS AND INVERTS OF PIPES
 WITH MECHANICAL & ELECTRICAL CONTRACTORS.
 3. THE FOUNDATION DRAWINGS SHOW ONLY GENERAL LOCATIONS
 AND MAY NOT INCLUDE ALL PENETRATIONS. GO TO SEE
 MECHANICAL DRAWINGS FOR FULL EXTENT OF PIPE
 PENETRATIONS.

NOTE:
 GENERAL CONTRACTOR TO LAYOUT DIMENSIONS OF COLUMN
 CENTERLINES AT THE BEGINNING OF THE PROJECT AND IS TO
 NOTIFY THE ARCHITECT AND STEEL CONTRACTOR OF ANY
 DEVIATIONS FROM THE CONTRACT DRAWINGS.

NOTE:
 ELECTRICAL CONTRACTOR TO PROVIDE GROUNDING
 ELECTRODE SYSTEM AS REQUIRED BY NEC SECTION 250-52.a.
 COORDINATE LOCATION WITH GENERAL CONTRACTOR.



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SECOND FLOOR FRAMING PLAN
 1/8" = 1'-0"

ELEVATION TOP OF FINISHED FLOOR SLAB: 41'-11" ABOVE DATUM
 EL. 0'-0" UNLESS OTHERWISE NOTED ON PLAN. FINISHED FLOOR TO MATCH ADJACENT EXISTING FINISHED FLOOR ELEVATION.

FLOOR SLAB: 4 1/2" CONC. SLAB + 6x6-W4x14 WUF. ON 2"-20 GA. COMPOSITE METAL FLOOR DECK (GALVANIZED)

ELEVATION TOP OF STEEL BEAMS: 4 1/2" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED THIS () ON PLAN ABOVE DATUM.

W 16 x 26 + 24 - INDICATES W 16 x 26 STEEL BEAM WITH 24-3/4" SHEAR STUDS. SPACE ALL STEEL MEMBERS EQUALLY UNLESS OTHERWISE NOTED ON PLAN.

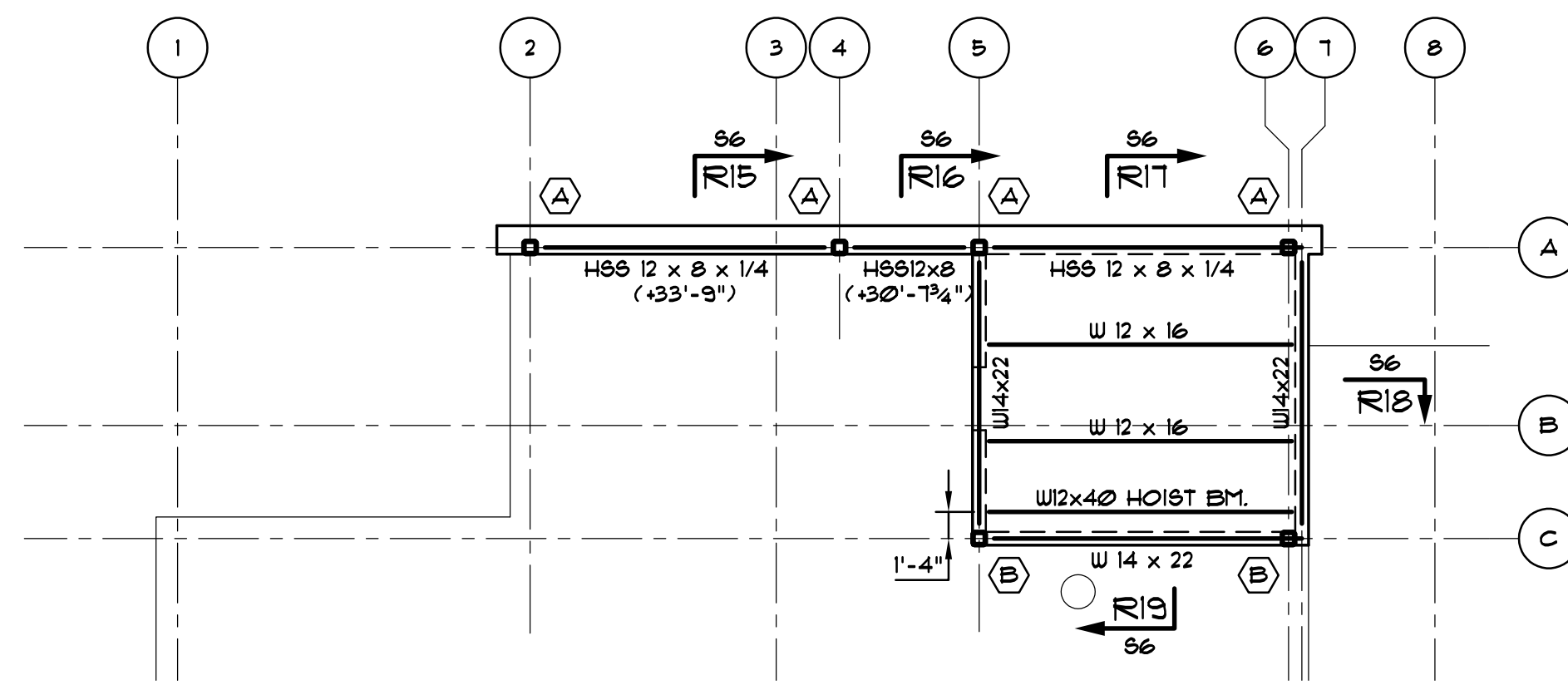
◁ ▷ - INDICATES A TYPE 3 SEMI-RIGID WIND/SEISMIC MOMENT CONNECTION IN UNITS OF KIP - FT. (ALLOWABLE STRESS INCREASES MAY BE TAKEN FOR ASD.)

* - INDICATES MOMENT CONNECTION IN UNITS OF KIP - FT.

PCL - INDICATES 4"x8" PRECAST CONCRETE LINTELS w/ (1) - #4 BOTTOM & (1) - #3 TOP. PROVIDE (1) P/C LINTEL FOR EVERY 4" OF MASONRY WIDTH OF THE EXISTING WALL.

HIGH ROOF FRAMING PLAN

1/8" = 1'-0"
 ELEVATION TOP OF STEEL BEAMS: +2'-10 1/2" ABOVE DATUM
 EL. 0'-0" UNLESS OTHERWISE NOTED THIS () ON PLAN.
 ROOF DECK: 1/2" - 30 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK (GALV.).
 PROVIDE FRAME AROUND ALL ROOF DRAINS & AT ALL OTHER ROOF OPENINGS
 LARGER THAN 8" AS PER TYPICAL DETAIL.
 COORDINATE SIZE & LOCATION OF ALL ROOF OPENGS, W/ ARCH & MECH. DUGS.
 SPACE ALL STEEL MEMBERS EQUALLY UNLESS OTHERWISE NOTED ON PLAN.
 [] - INDICATES ELEVATION BOTTOM OF BEAM + IE LINTEL FROM DATUM.

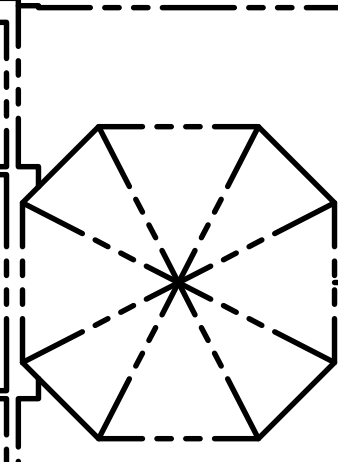
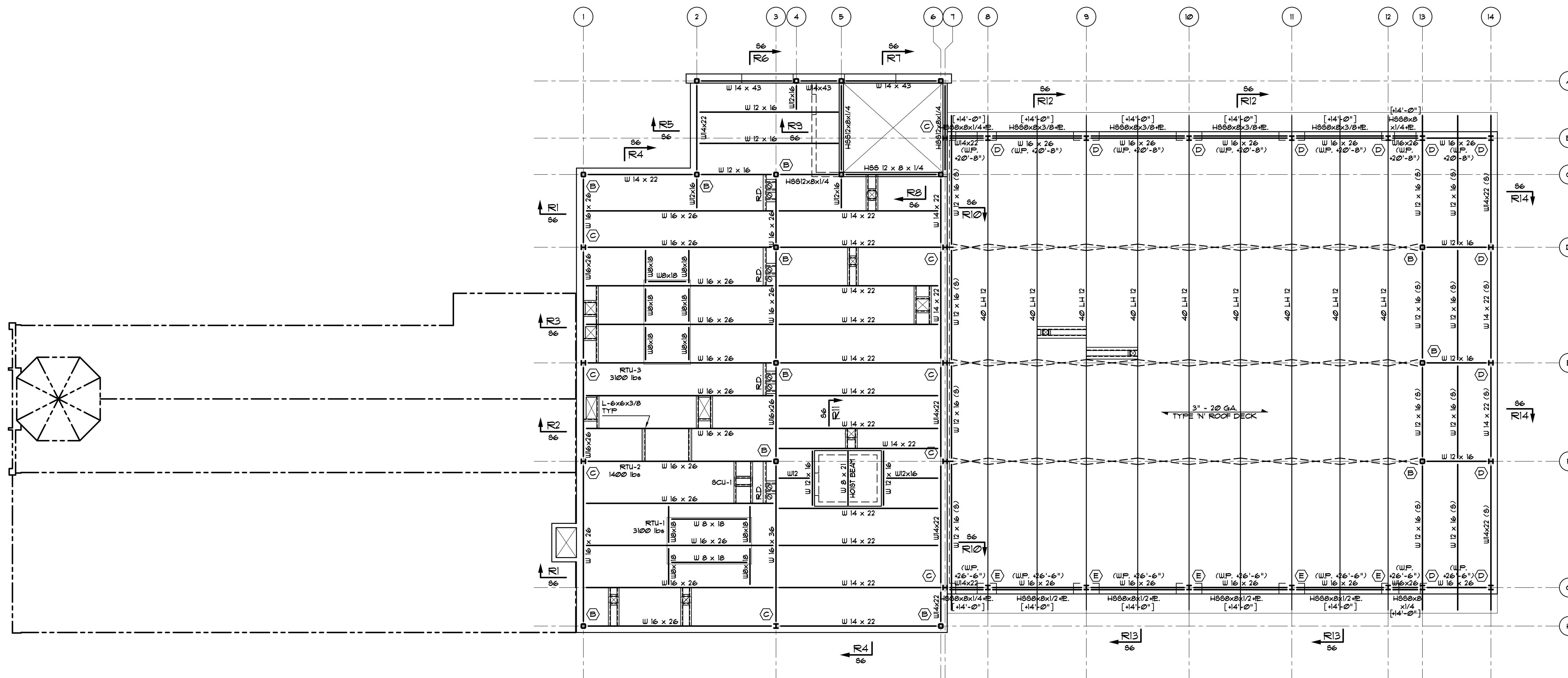


COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	ANCHOR RODS
(A)	HSS 8 x 8 x 5/8	3/4" x 14" x 1'-2"	(4) - 3/4" #
(B)	HSS 8 x 8 x 1/4	3/4" x 14" x 1'-2"	(4) - 3/4" #
(C)	W 8 x 31	3/4" x 14" x 1'-2"	(4) - 3/4" #
(D)	W 8 x 31	3/4" x 10" x 1'-0"	(4) - 3/4" #
(E)	W 8 x 58	3/4" x 10" x 1'-0"	(4) - 3/4" #

NOTES:
 1. BOTTOM OF BASE PLATES TO BE -1" BELOW DATUM ELEVATION UNLESS OTHERWISE NOTED THIS (B.E.) ON PLAN FROM DATUM.
 2. ALL COLUMNS TO HAVE (4) 3/4" # ANCHOR RODS WITH 9" MIN. EMBEDMENT + HEAVY HEX NUTS UNLESS OTHERWISE NOTED.
 3. ALL HSS COLUMNS TO BE F_y = 46 K.S.I.
 4. ALL HSS COLUMNS TO HAVE CAP PLATES: 3/4" THICK + BEAM BEARING ALL OTHERS 1/4" THICK U.G.
 5. WHERE ANY FACE OF COLUMN ABUTS MASONRY WALLS, PROVIDE ADJUSTABLE MASONRY ANCHORS # 24" O.C. VERTICALLY. OMIT MASONRY ANCHORS AT FIRE WALLS.
 6. ALL STEEL COLUMNS SUPPORTING CANTILEVER MEMBERS TO HAVE 3/4" TOP PLATES W/ (4) 3/4" # A325 BOLTS U.G.

ROOF FRAMING PLAN

1/8" = 1'-0"
 ELEVATION TOP OF STEEL BEAMS: +2'-10 1/2" ABOVE DATUM
 EL. 0'-0" UNLESS OTHERWISE NOTED THIS () ON PLAN.
 ROOF DECK: 1/2" - 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK (GALV.).
 UNLESS OTHERWISE NOTED ON PLAN.
 PROVIDE FRAME AROUND ALL ROOF DRAINS & AT ALL OTHER ROOF OPENINGS
 LARGER THAN 8" AS PER TYPICAL DETAIL.
 COORDINATE SIZE & LOCATION OF ALL ROOF OPENGS, W/ ARCH & MECH. DUGS.
 SPACE ALL STEEL MEMBERS EQUALLY UNLESS OTHERWISE NOTED ON PLAN.
 [] - INDICATES ELEVATION BOTTOM OF BEAM + IE LINTEL FROM DATUM.
 (S) - INDICATES SLOPING MEMBER.

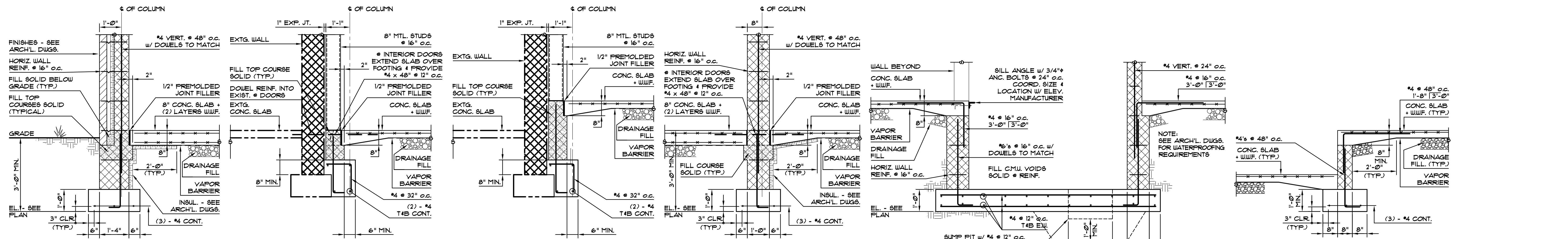
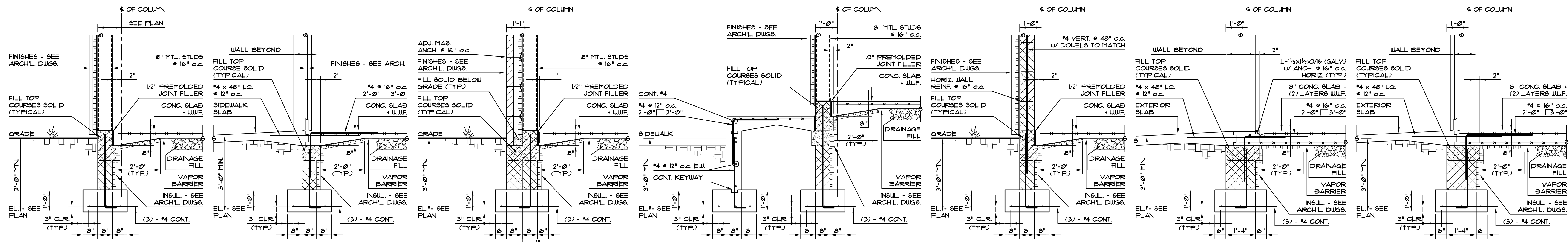


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RELIEF FIRE COMPANY NO. 1
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 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	RCM
COMMISSION NO.:	5475B

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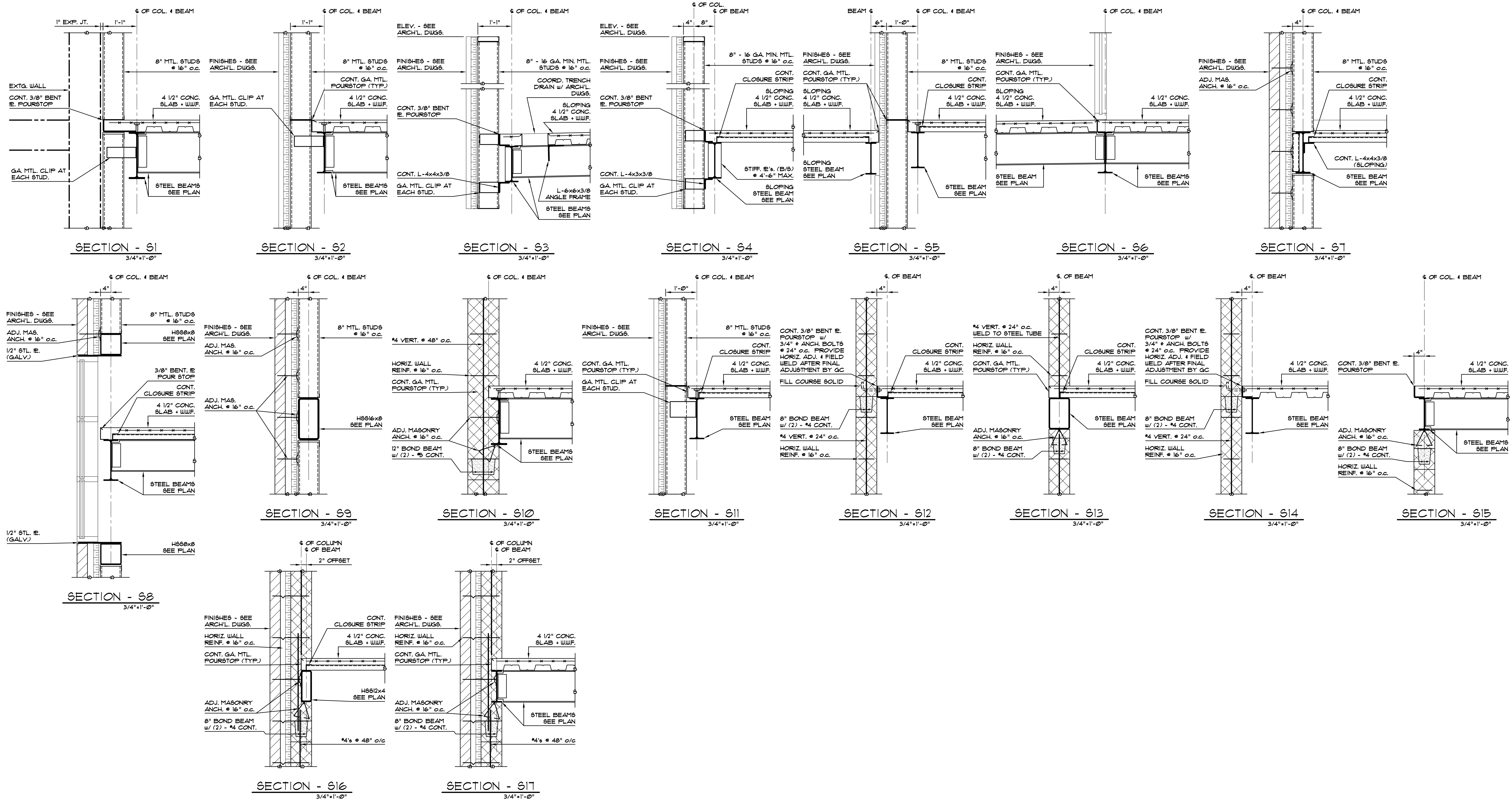
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TITLE: FOUNDATION SECTIONS

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	RCM
COMMISSION NO.:	5475B

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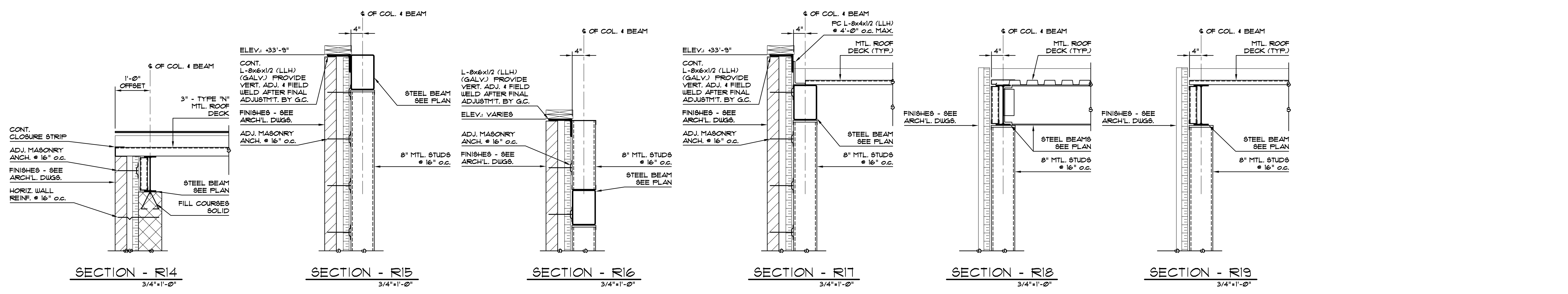
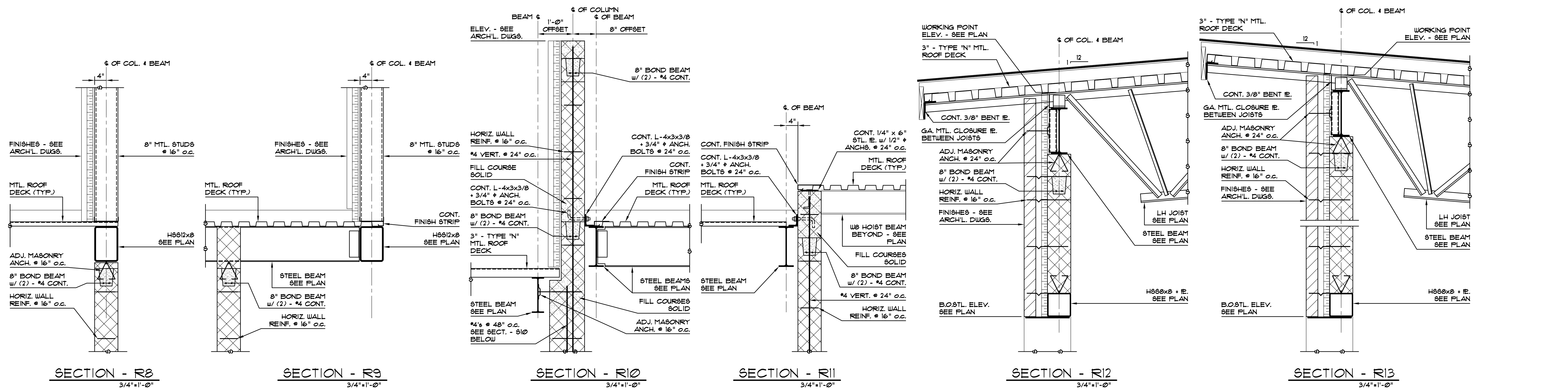
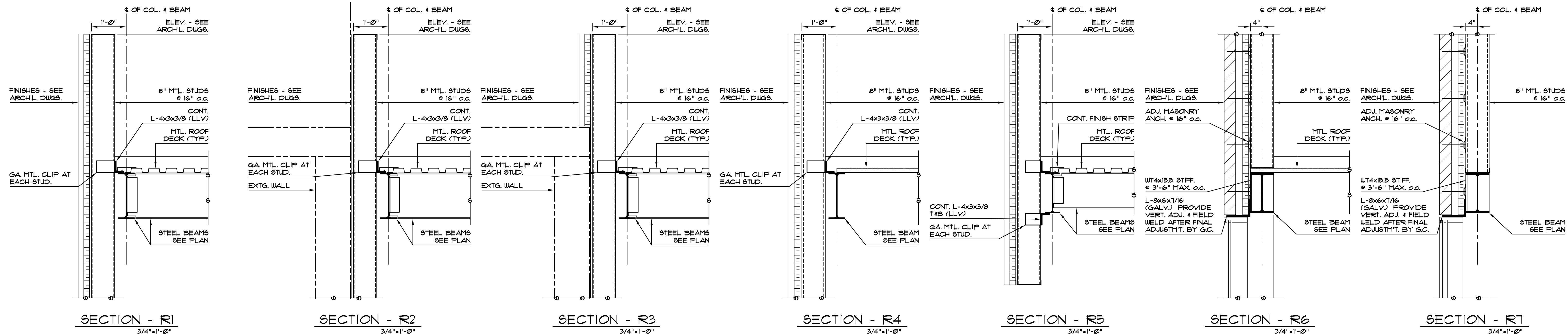
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S-5



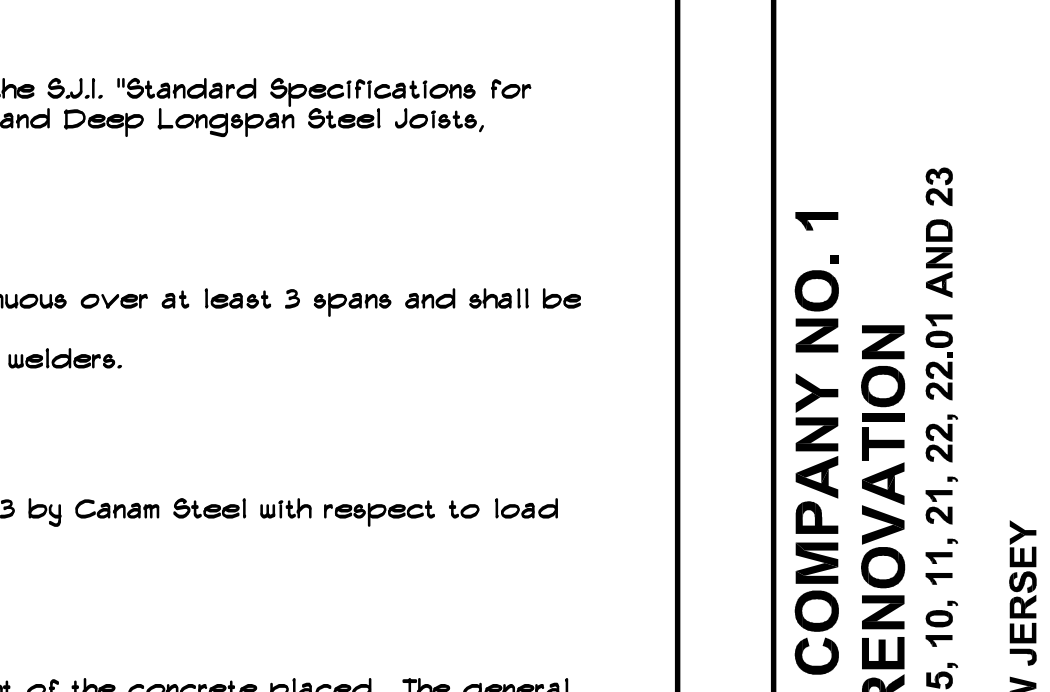
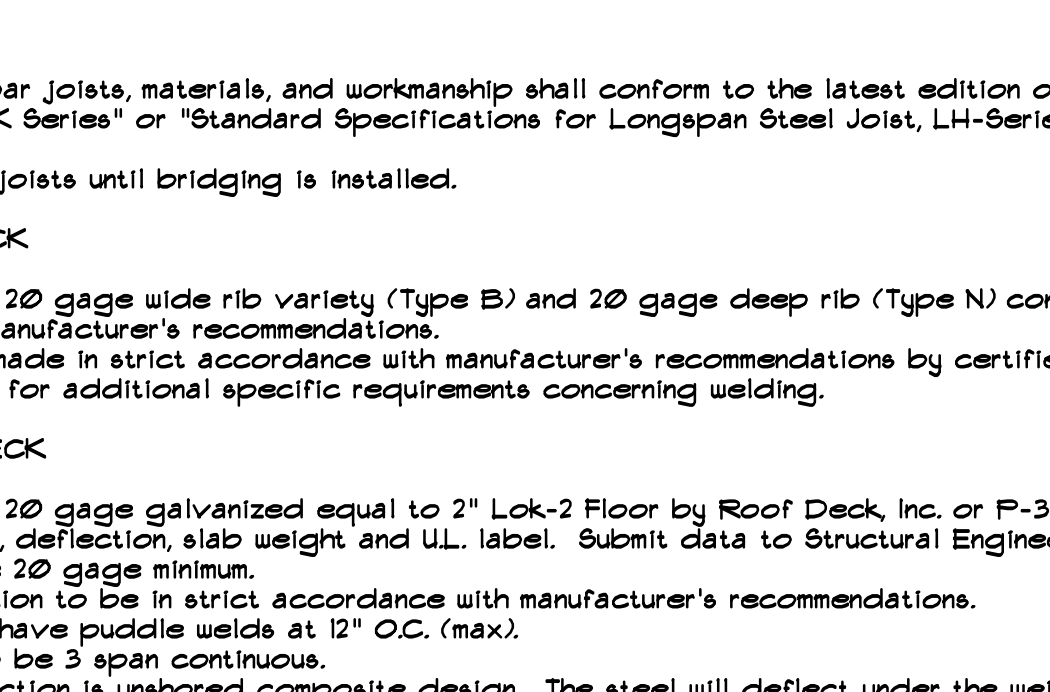
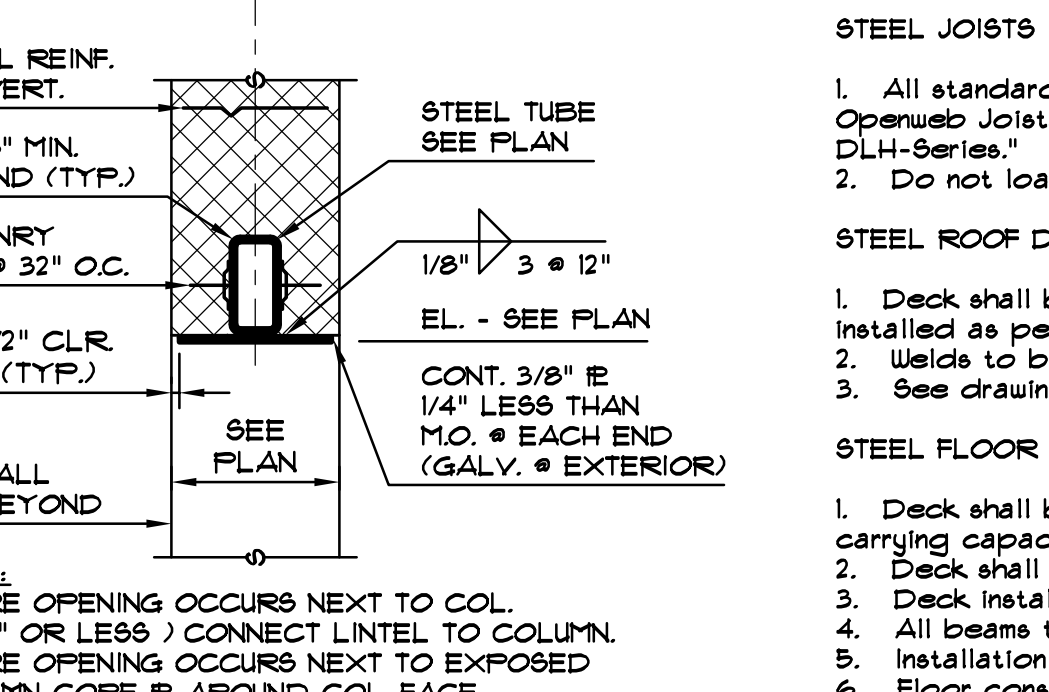
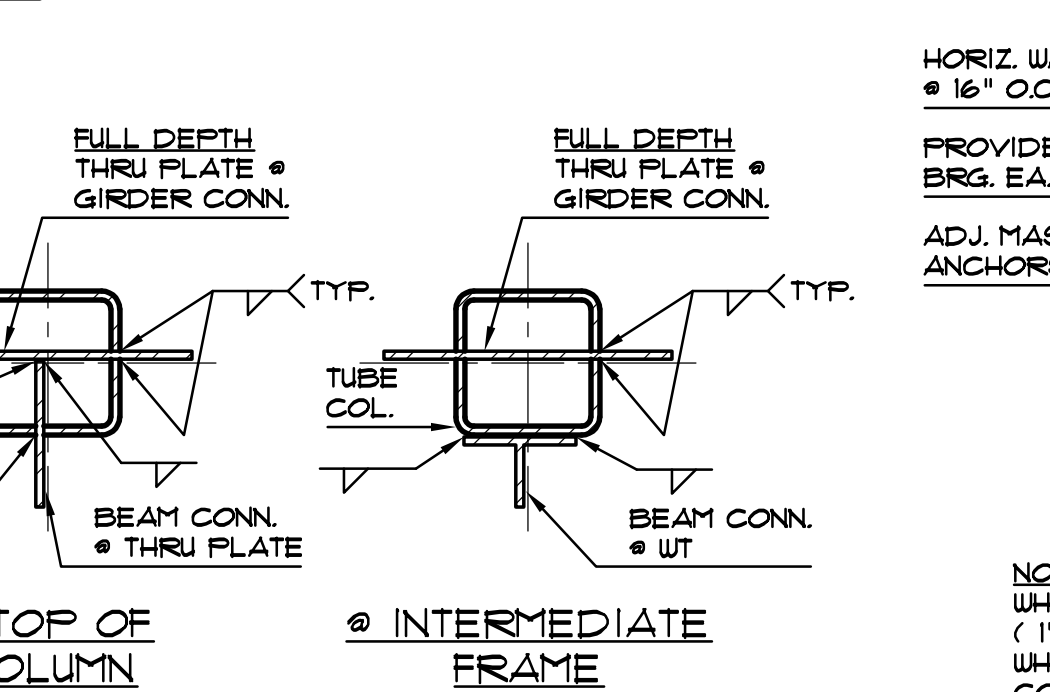
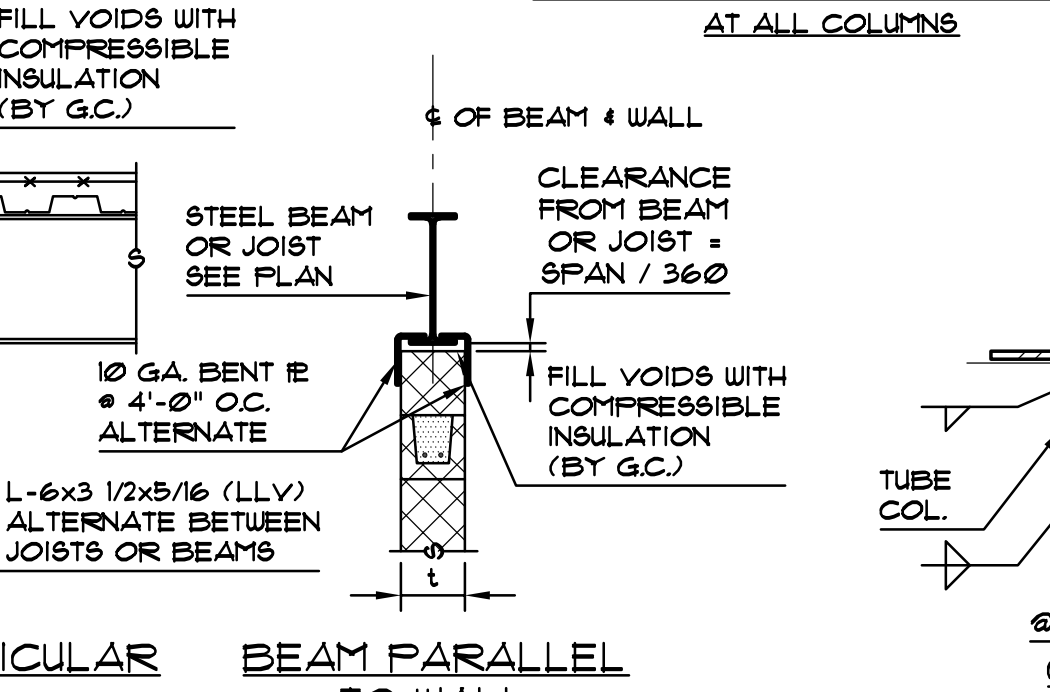
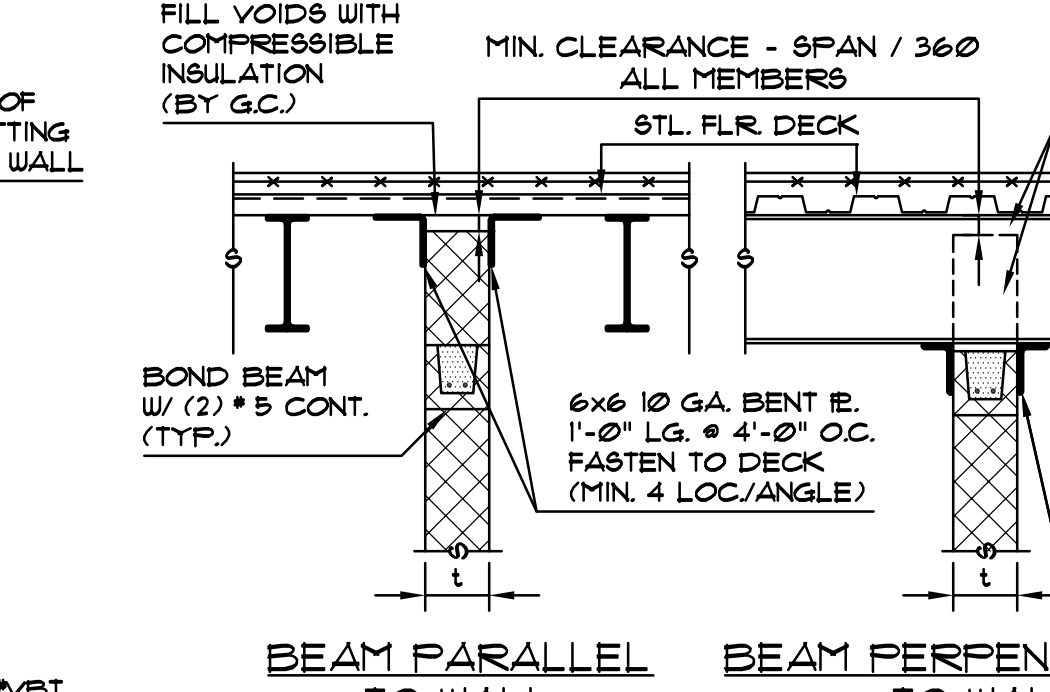
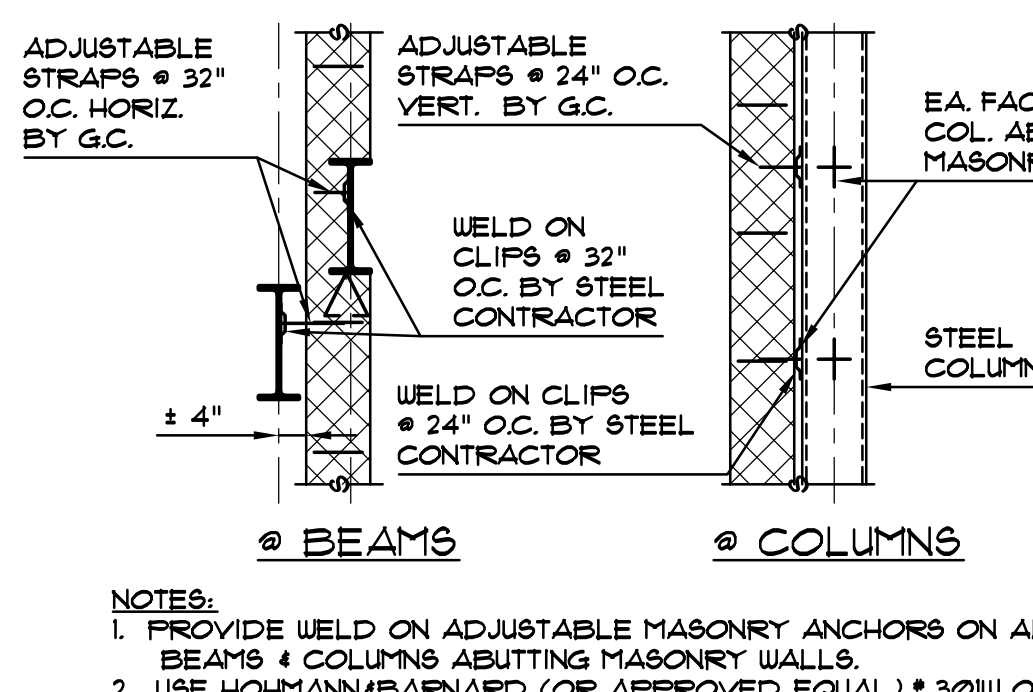
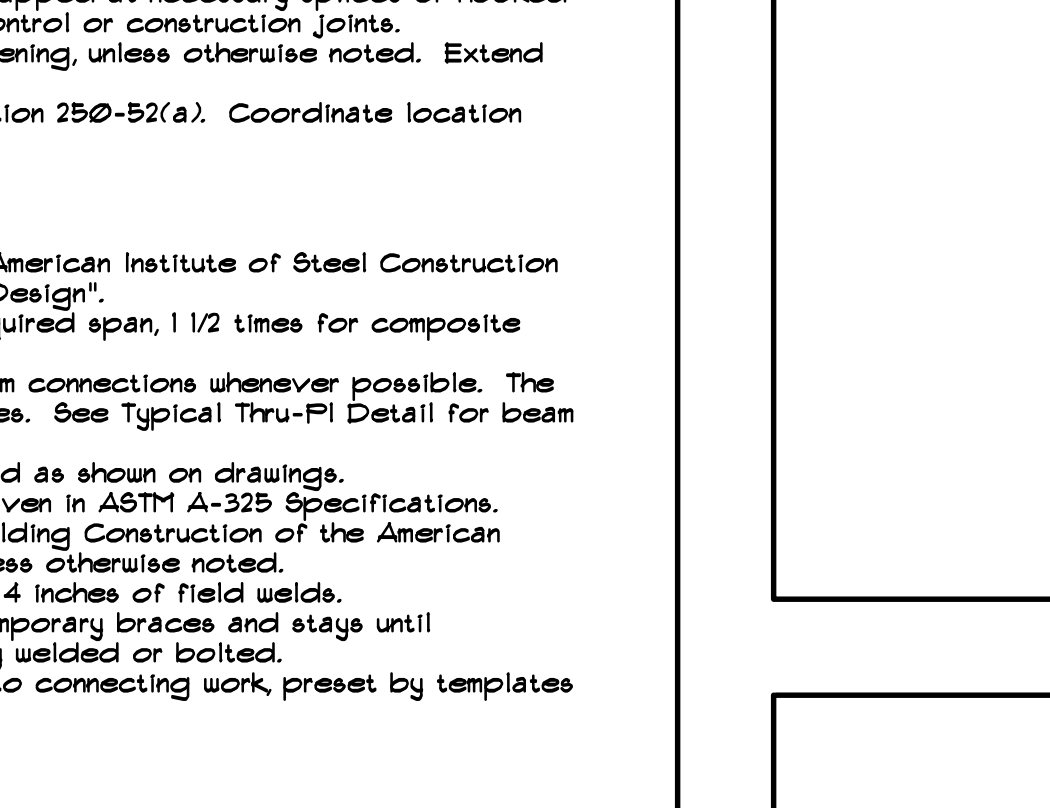
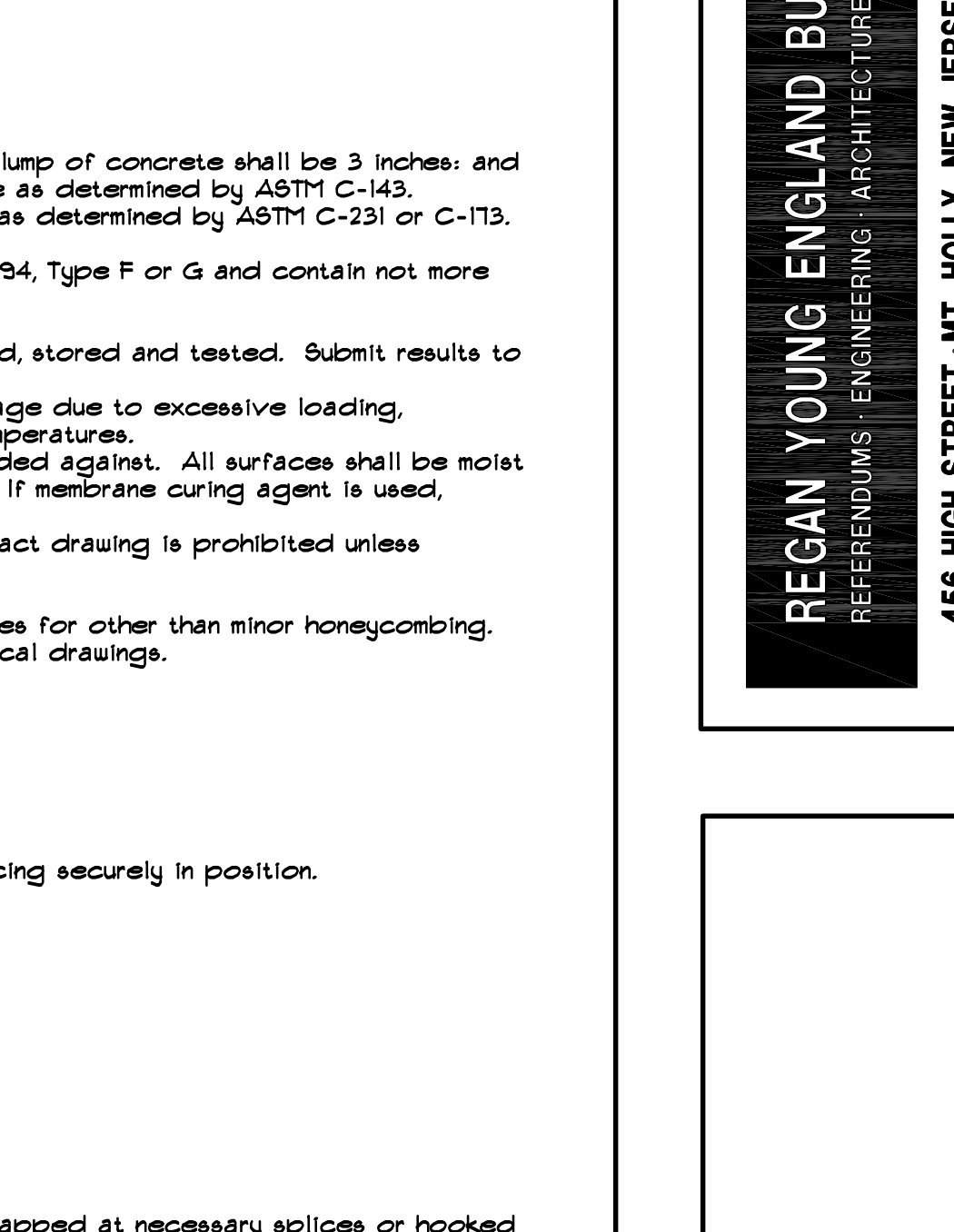
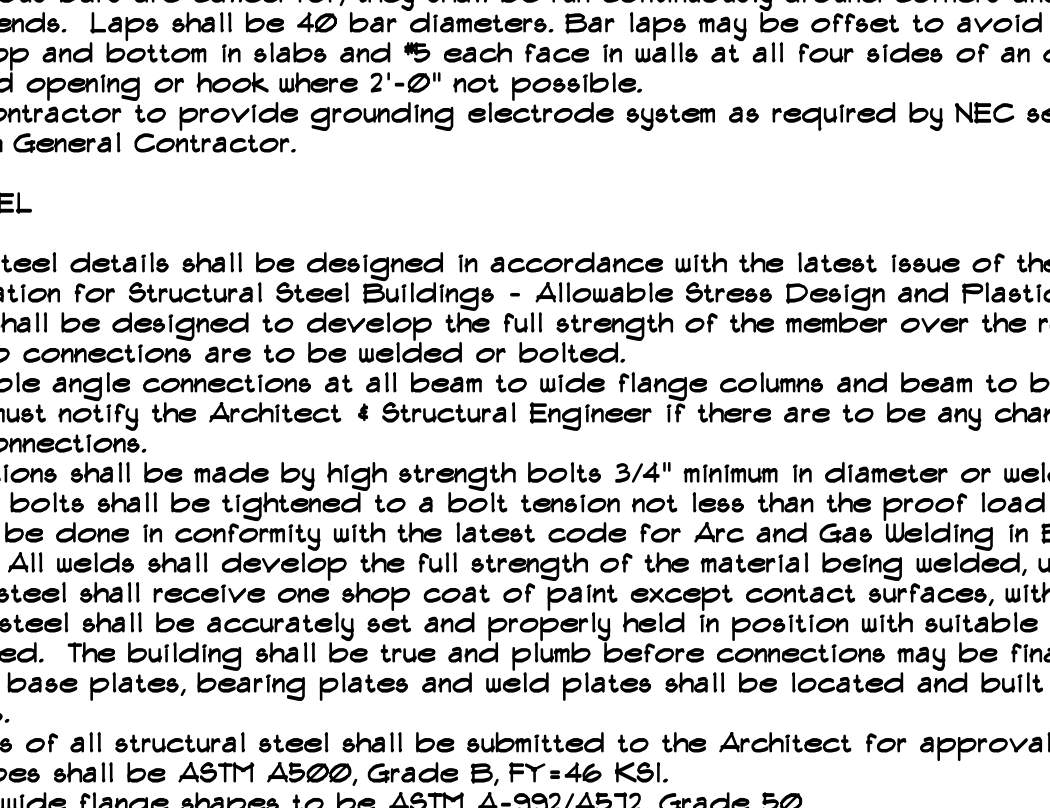
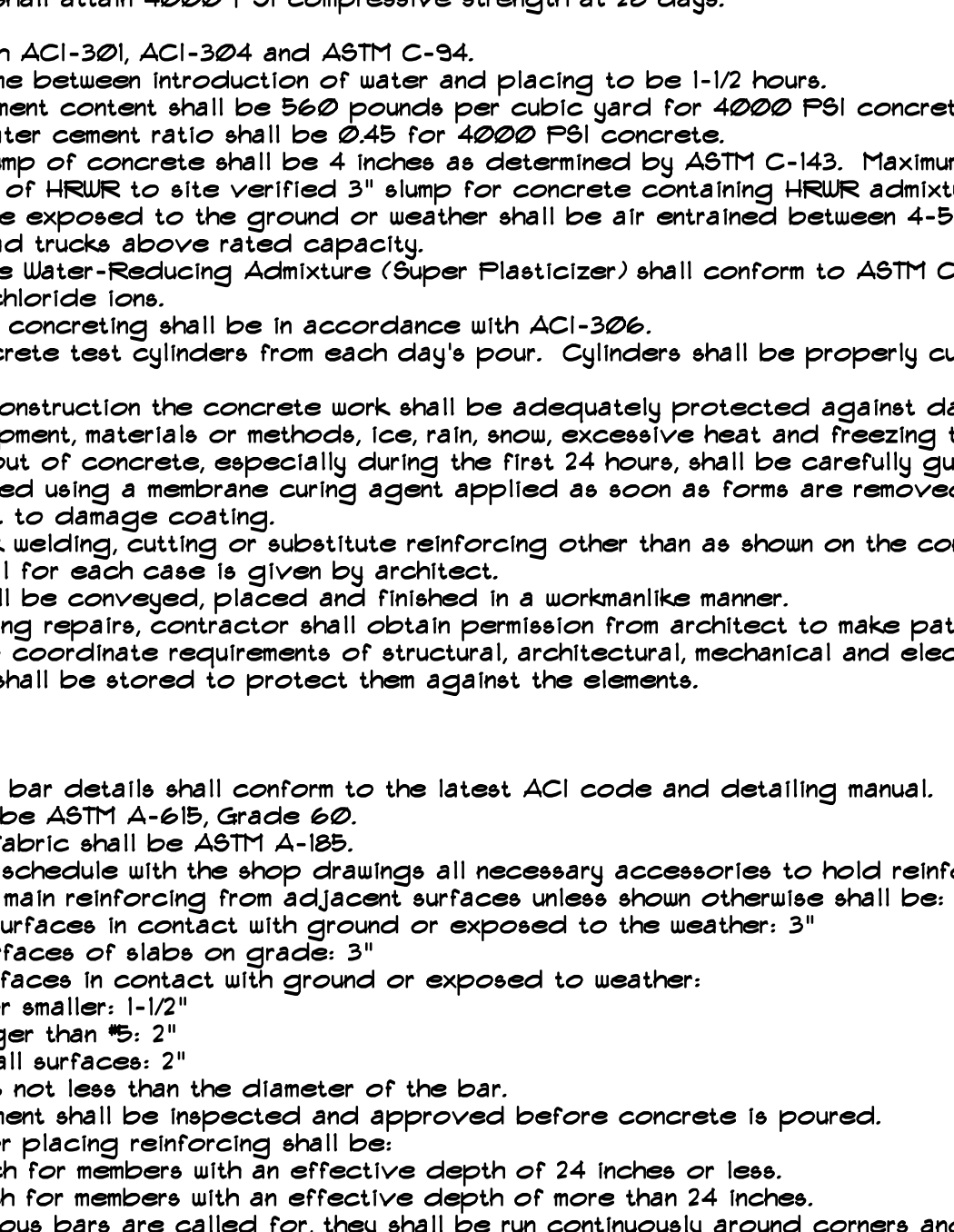
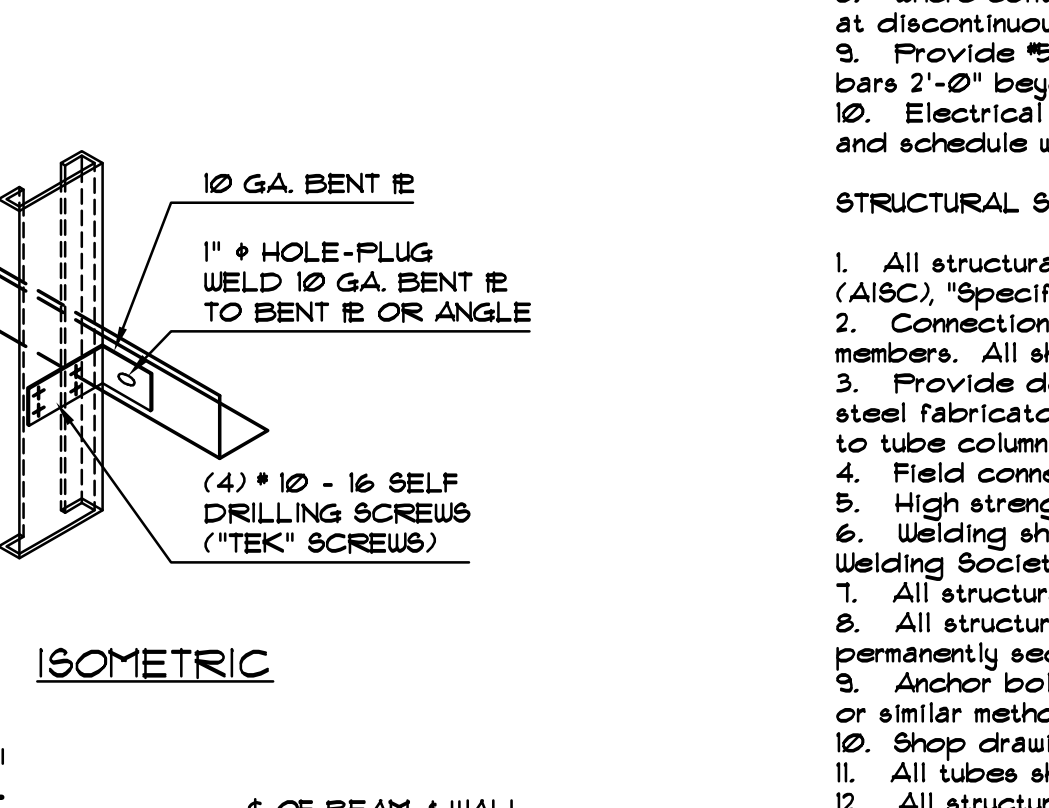
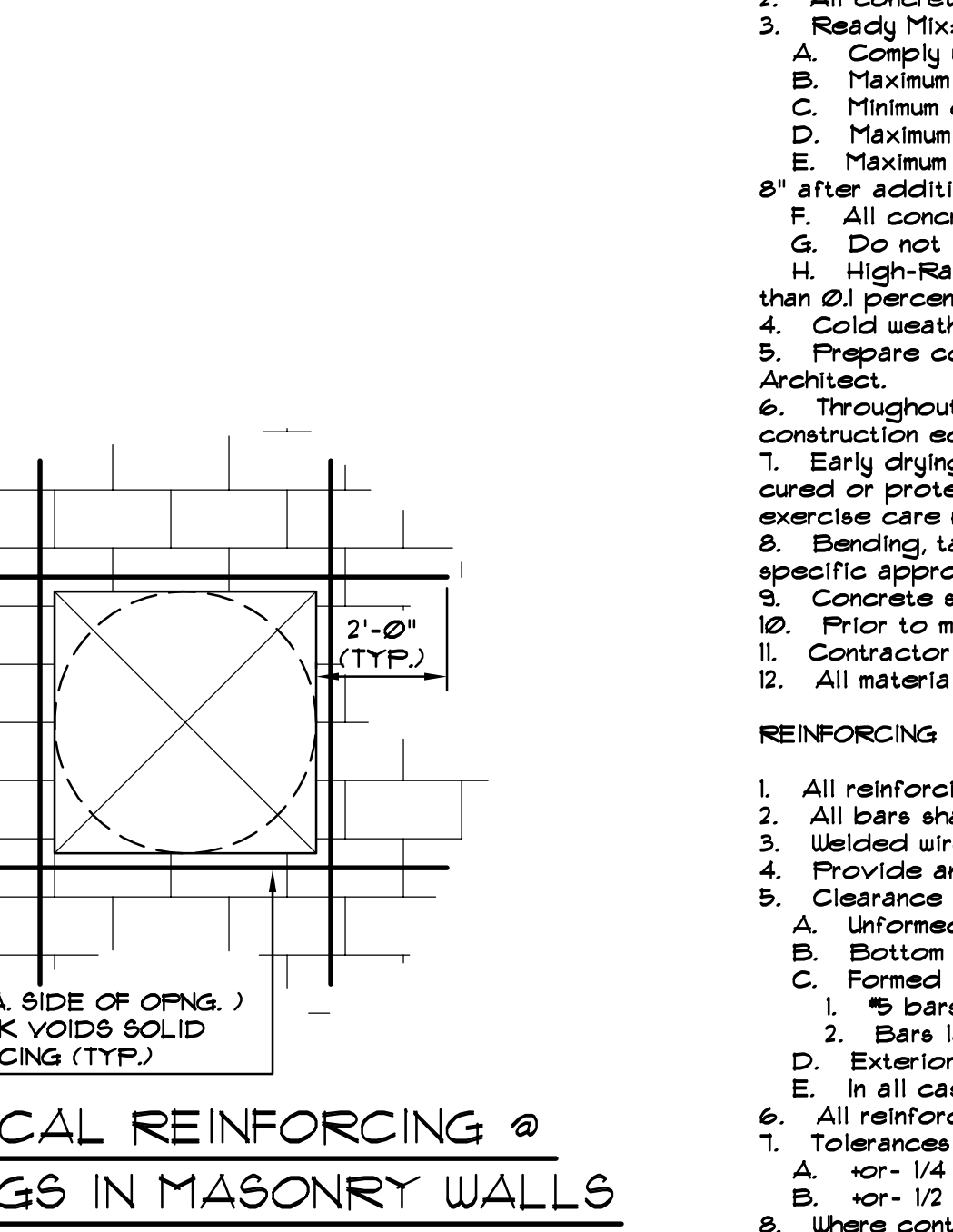
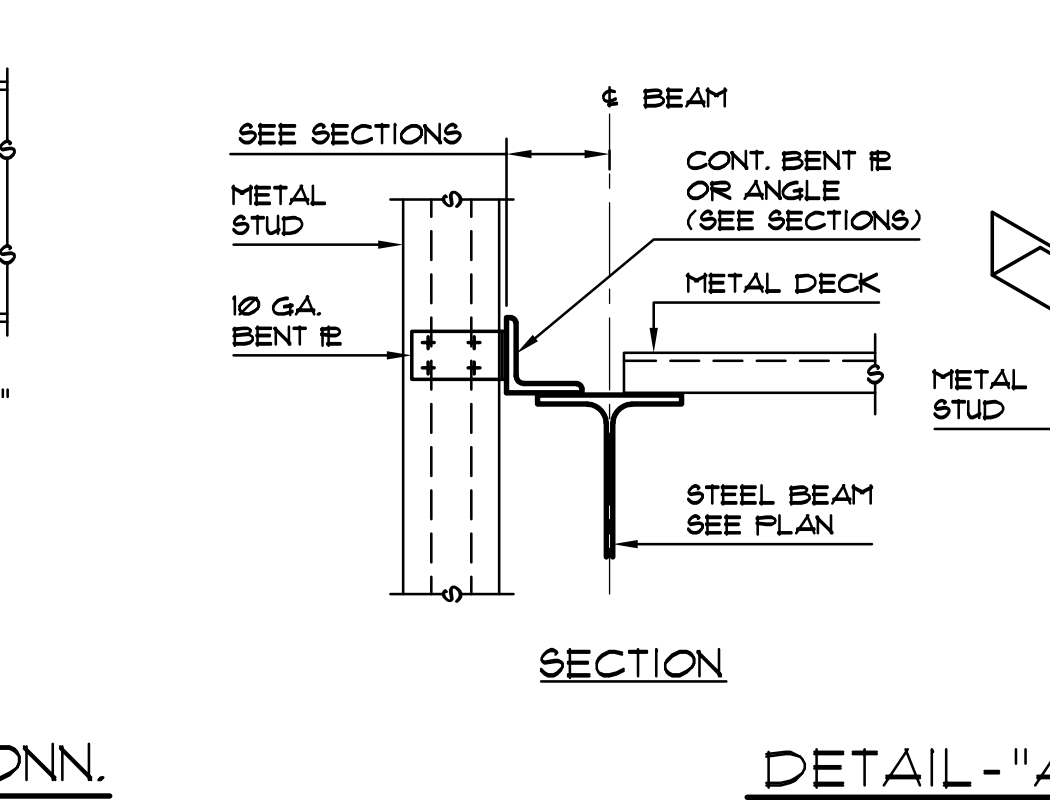
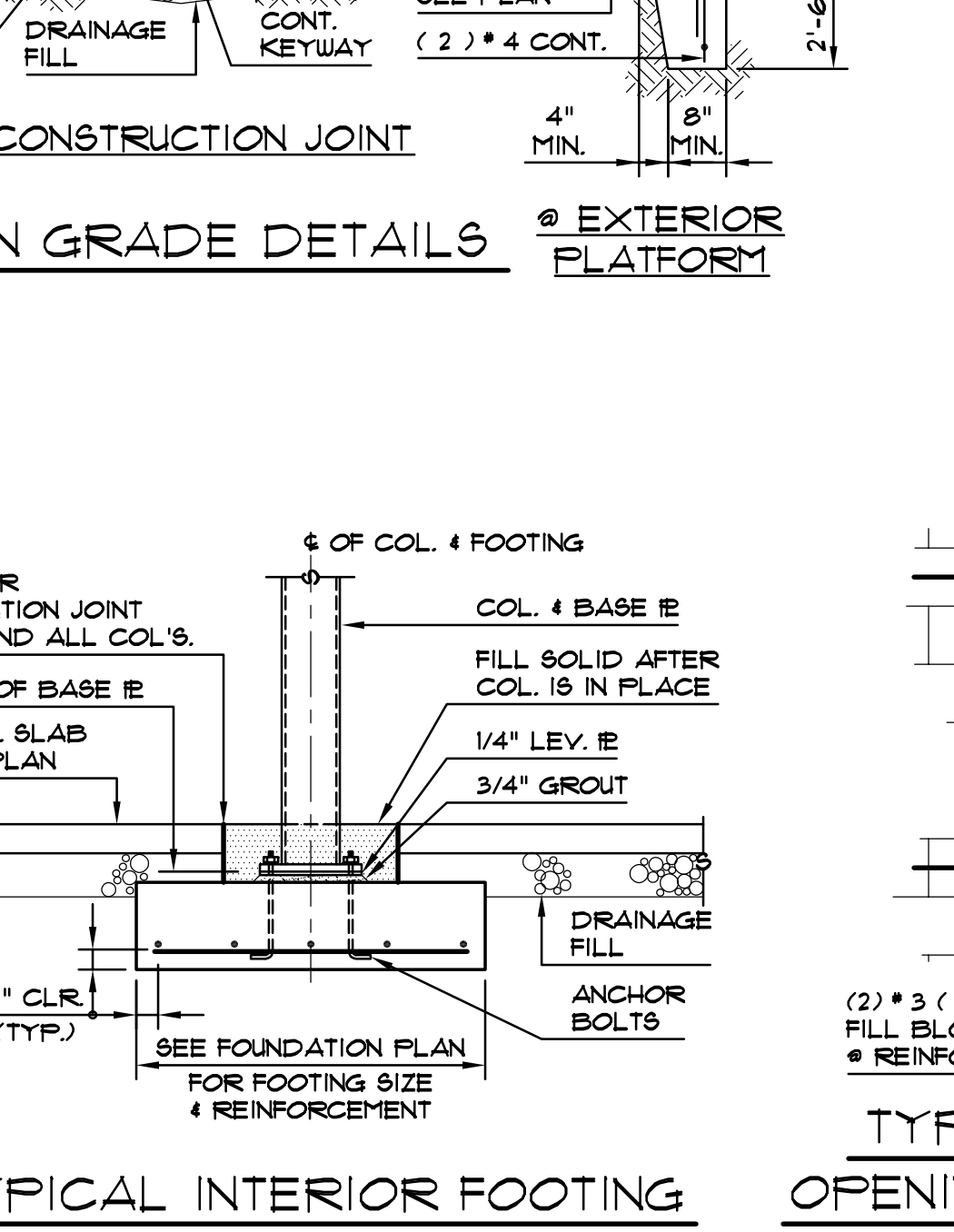
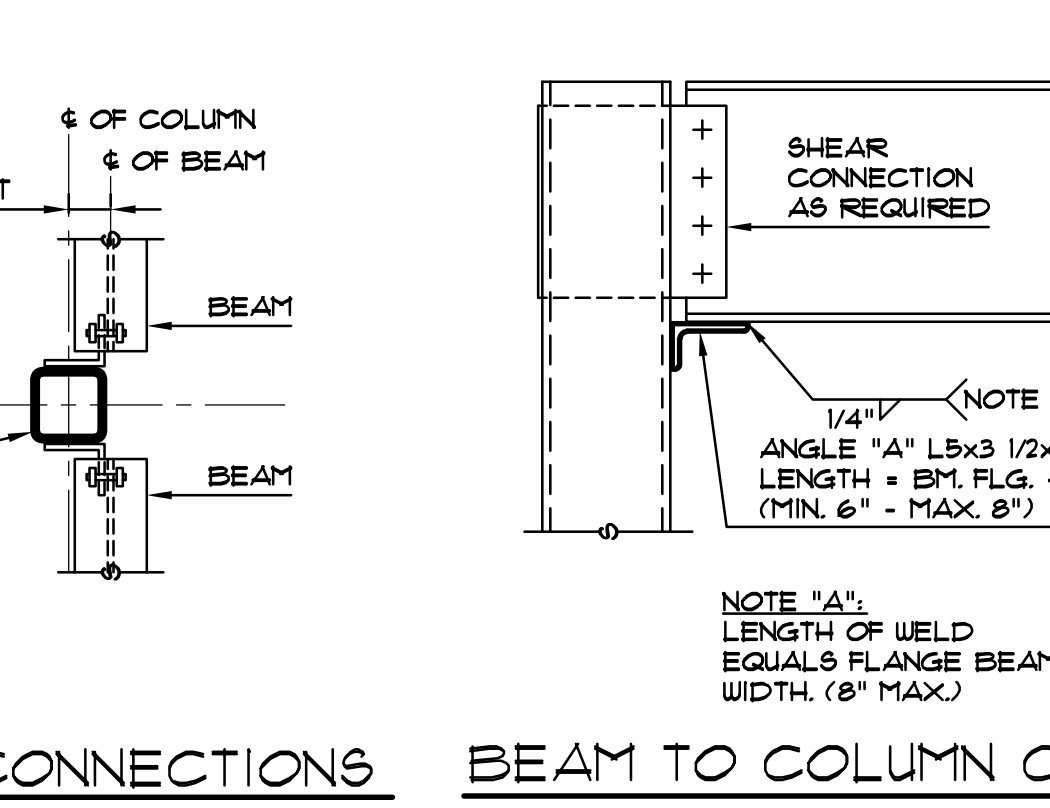
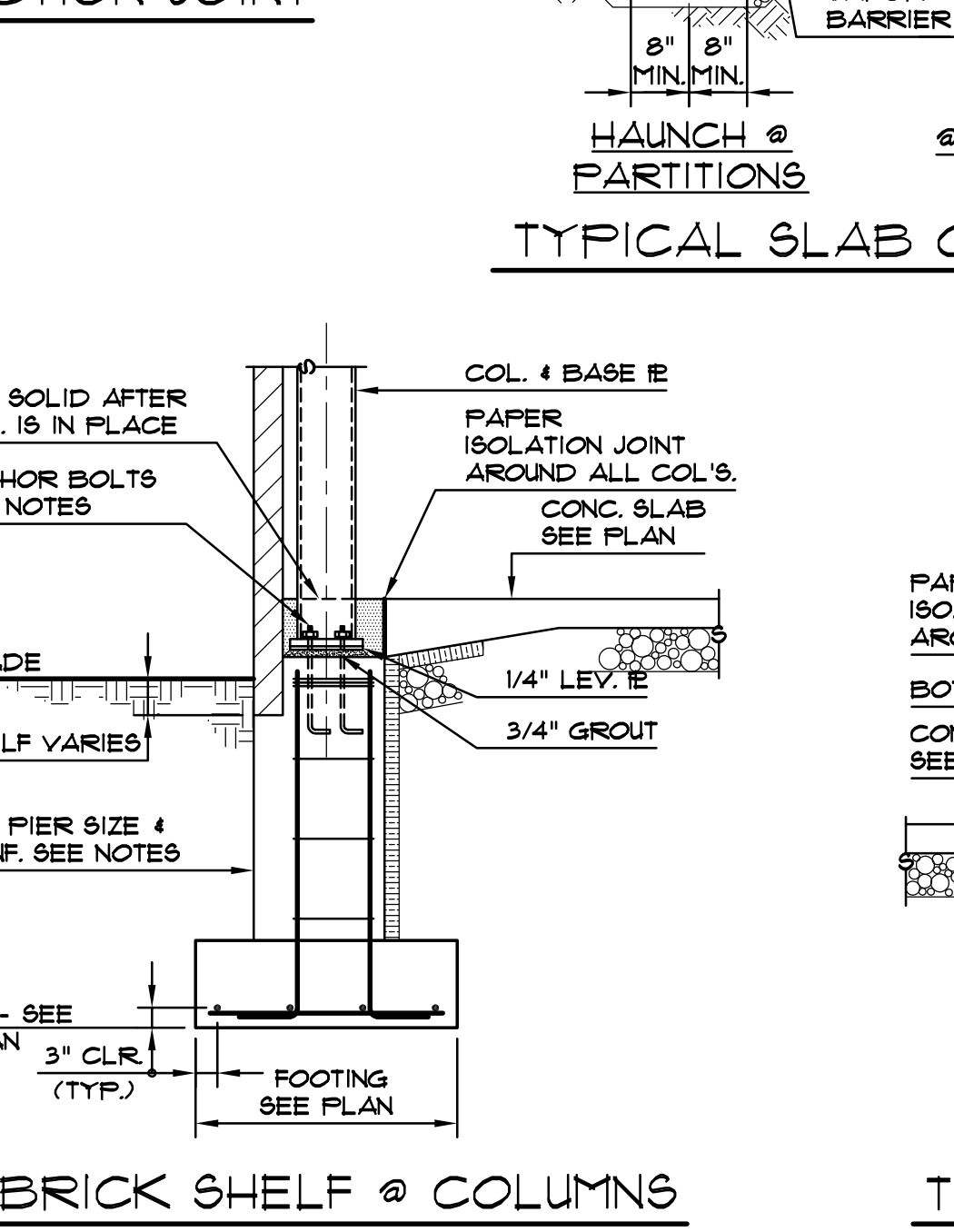
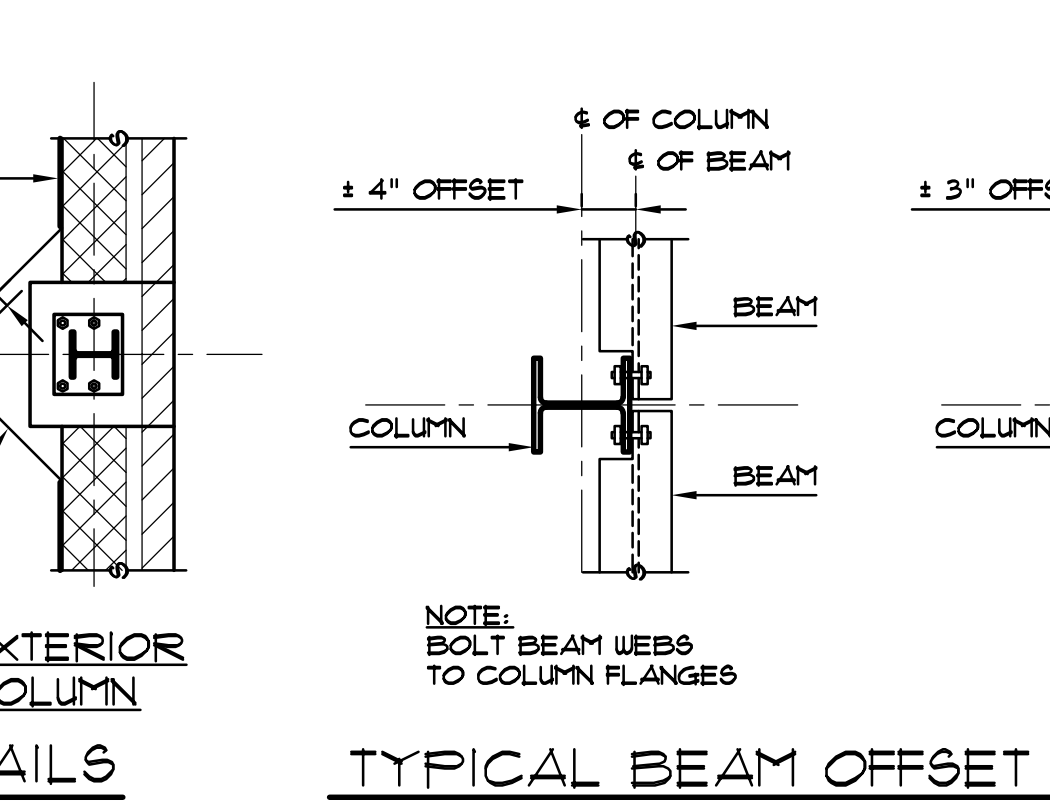
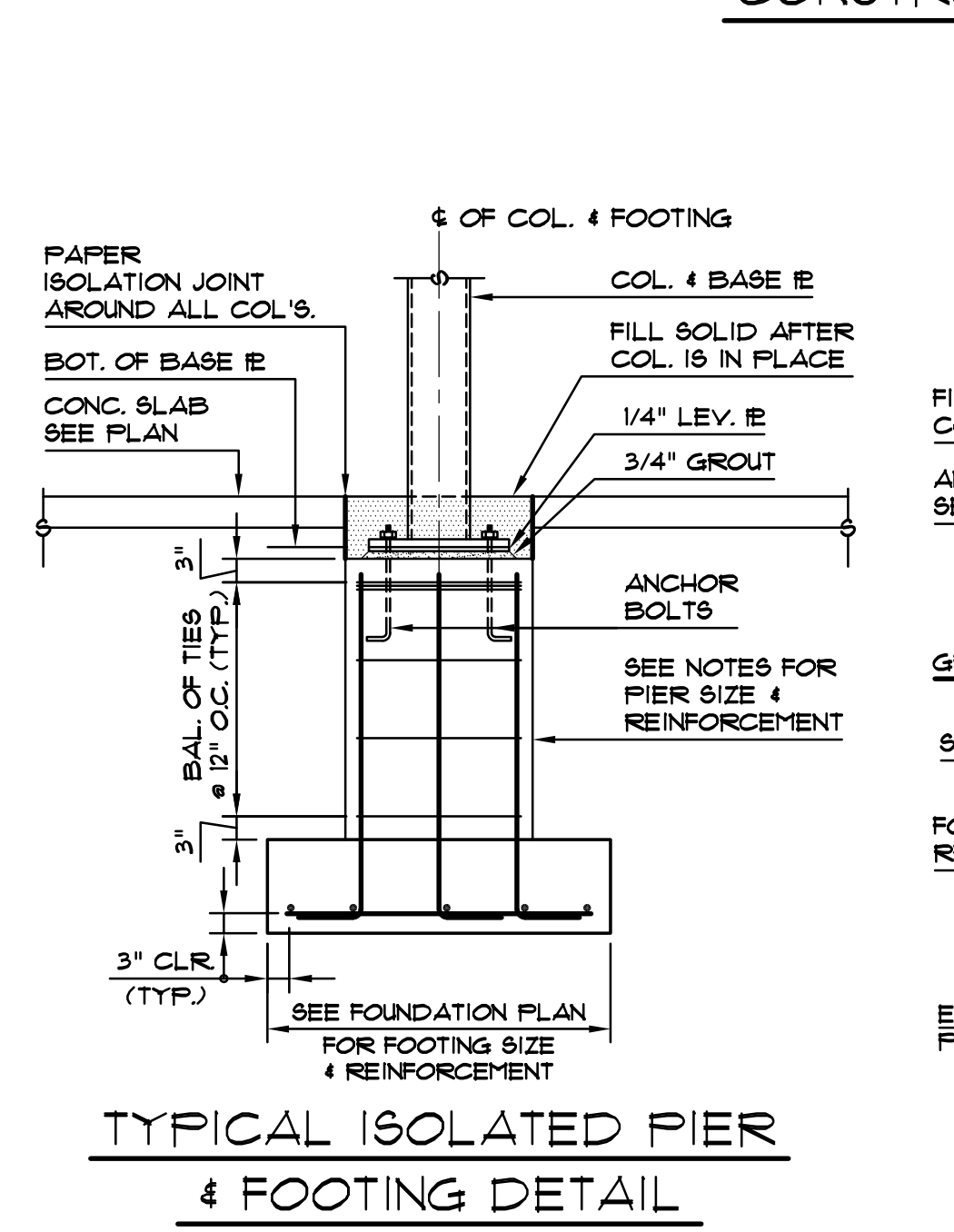
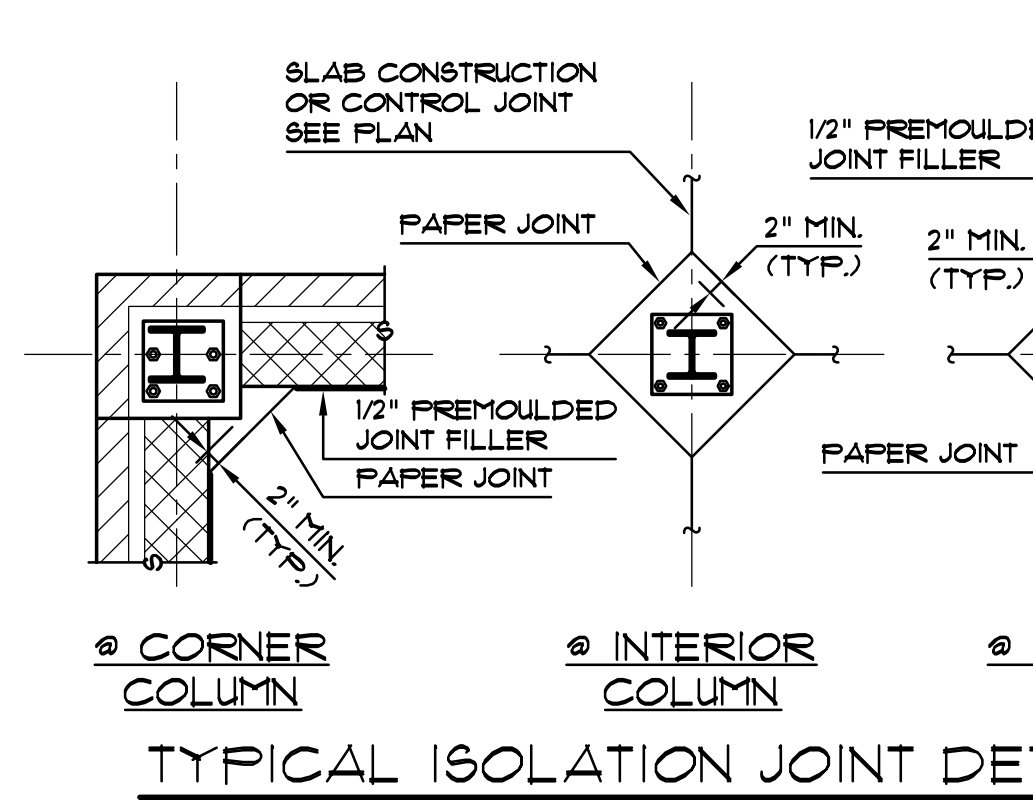
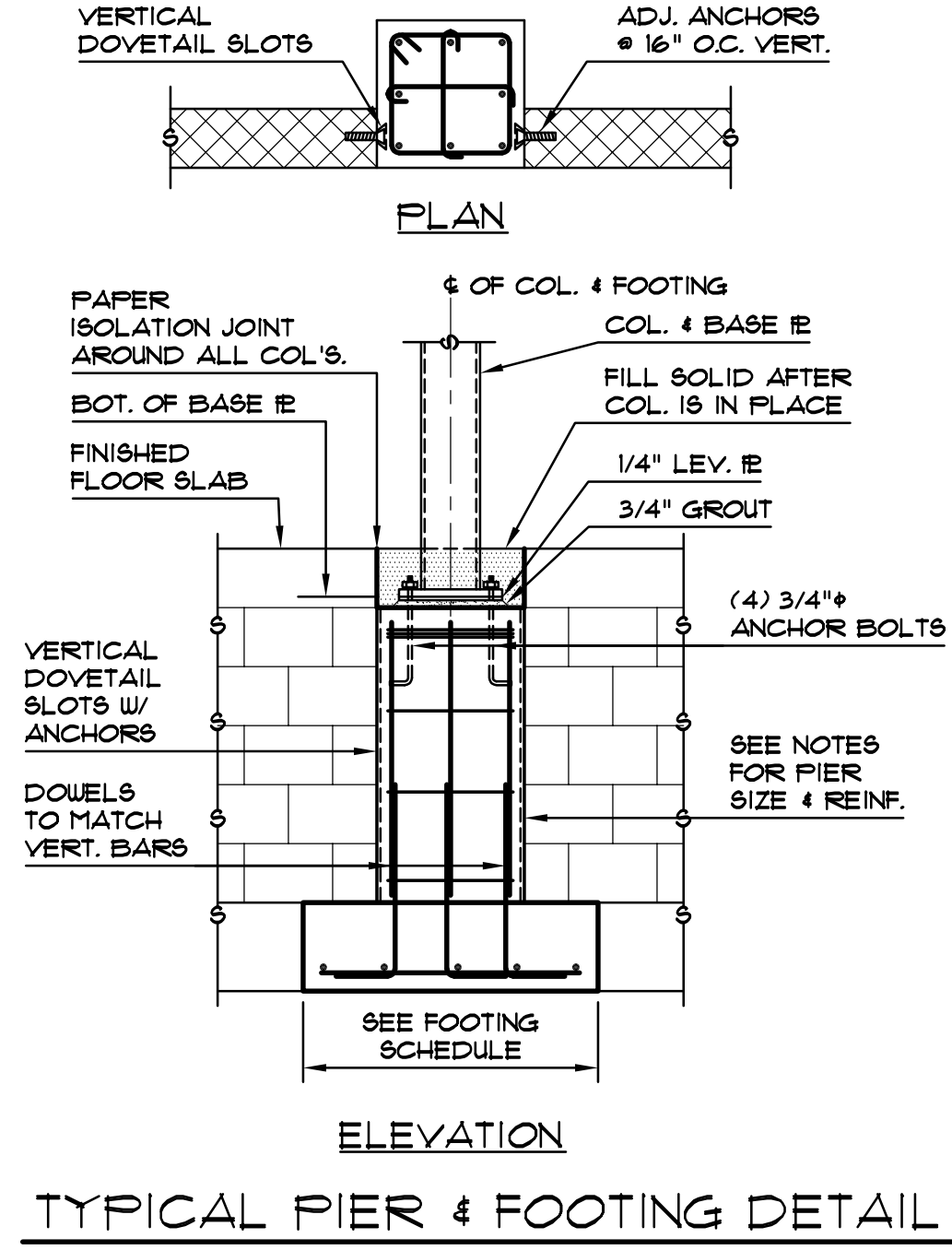
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S-6



LOOSE LINTEL SCHEDULE
(FOR 4", 8", 12", 16" WALLS)

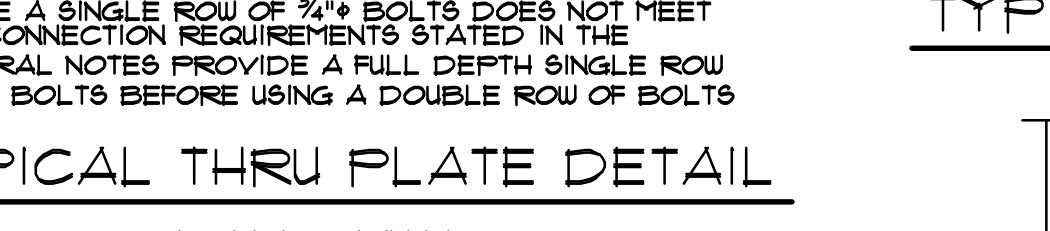
MASONRY OPENINGS	LINTEL SIZE	REMARKS
UP TO 4'-0"	L - 3 1/2" x 3 1/2" x 1/4"	
4'-1" TO 6'-0"	L - 5" x 3 1/2" x 5/16"	
6'-1" TO 8'-0"	L - 6" x 3 1/2" x 5/16"	
OVER 8'-0"	W 8 x 18 + IE	

ROOF DECK WELDING PATTERN

ROOF DECK WELDING PATTERN	ROOF DECK WELDING PATTERN
3" ROOF DECK WELDING PATTERN	3" ROOF DECK WELDING PATTERN
INTERMEDIATE 24"	INTERMEDIATE 24"
36"	36"
INTERMEDIATE 30"	INTERMEDIATE 30"

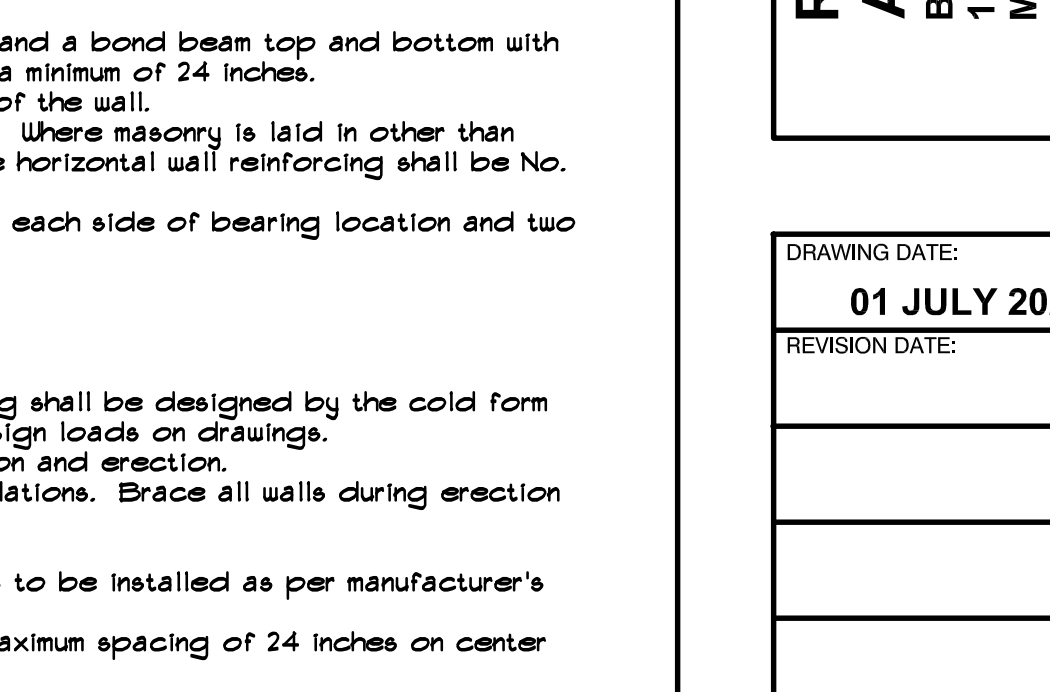
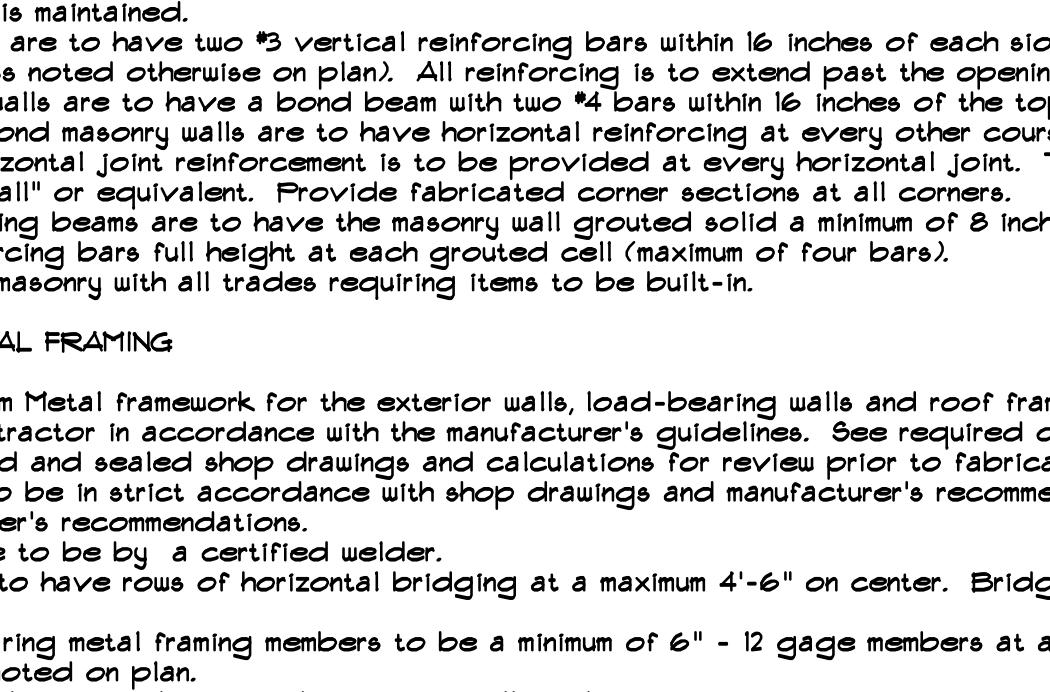
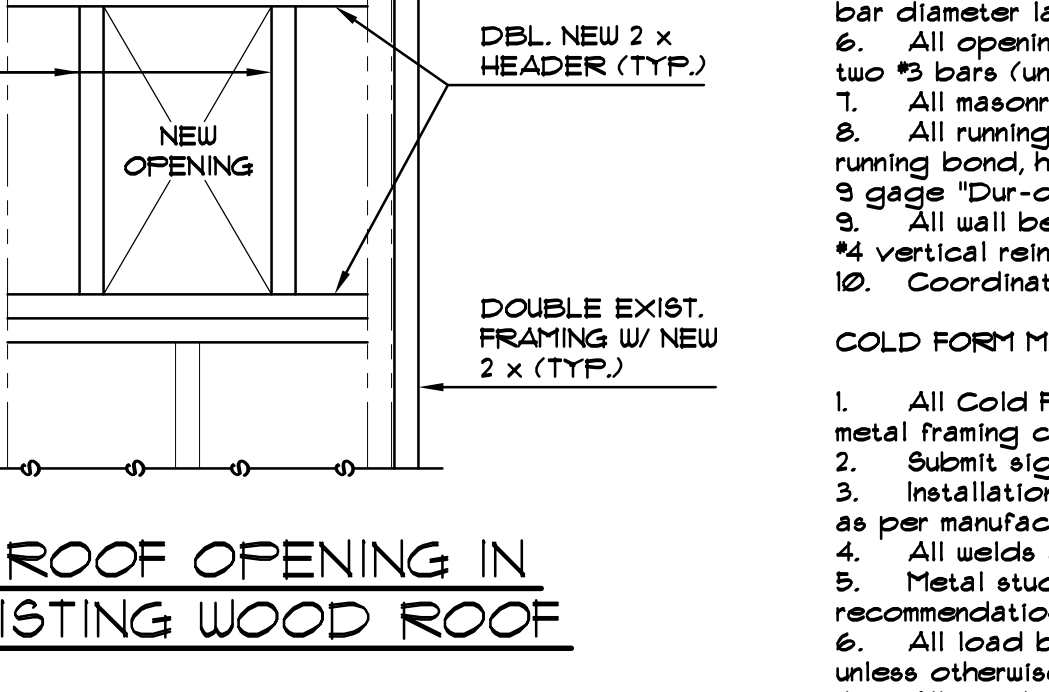
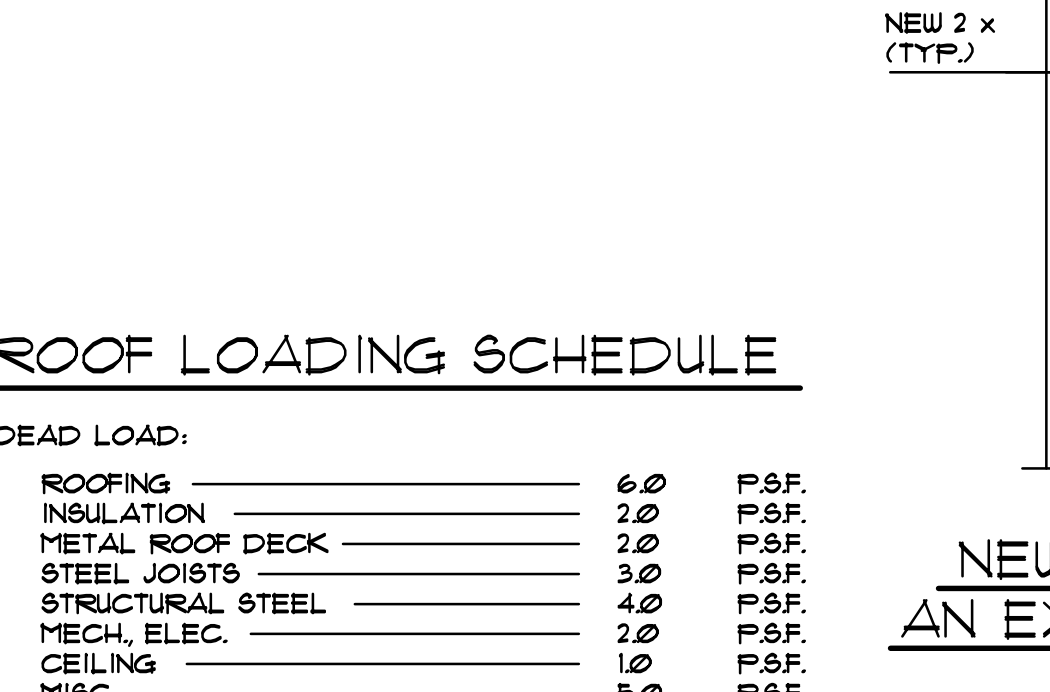
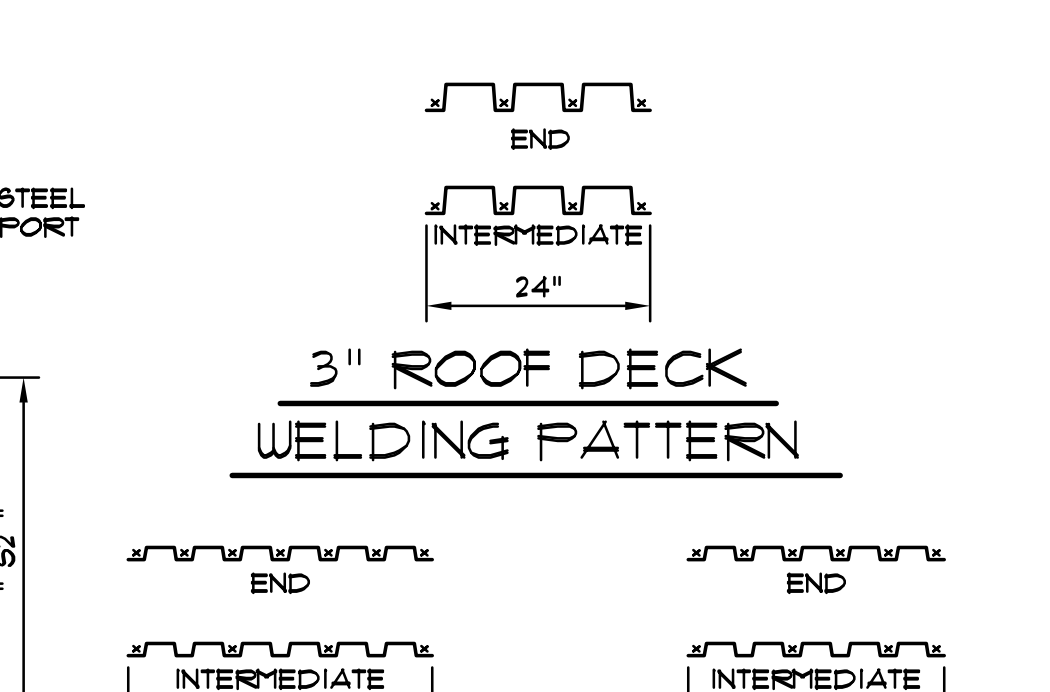
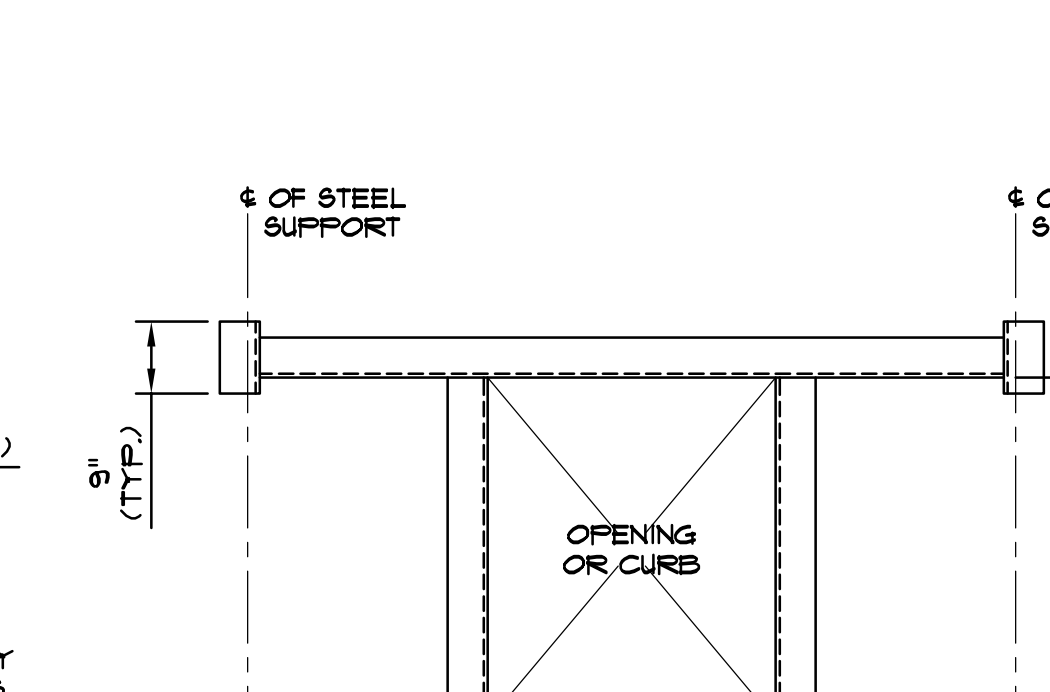
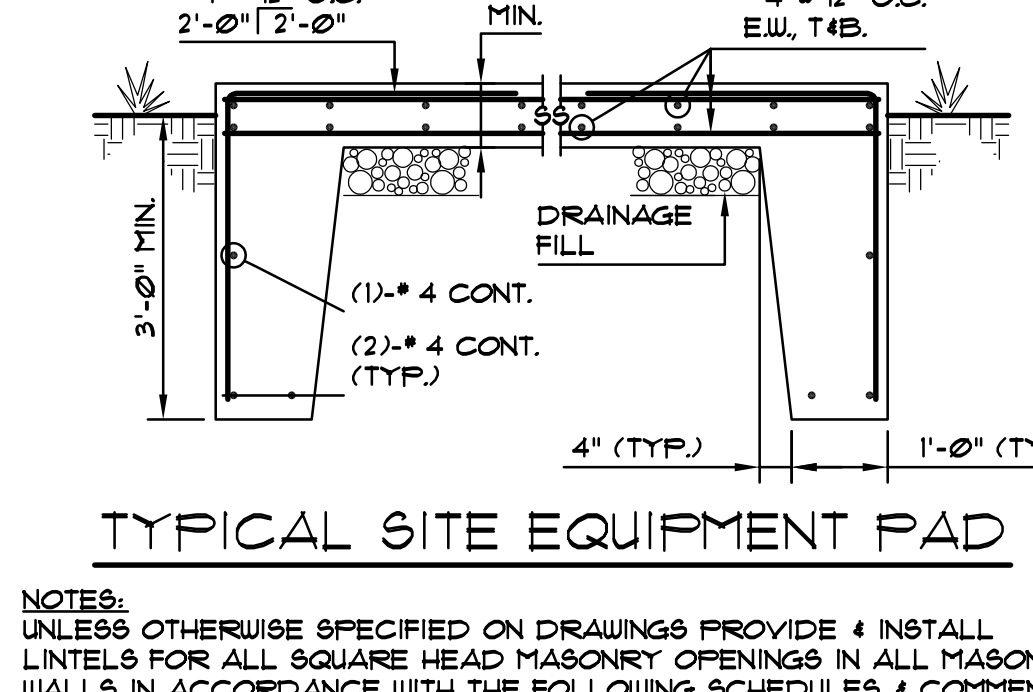
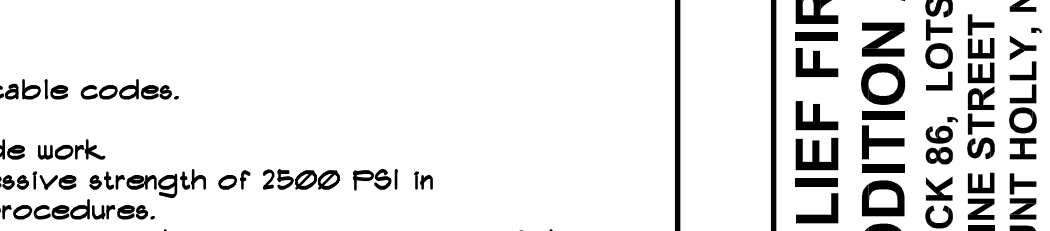
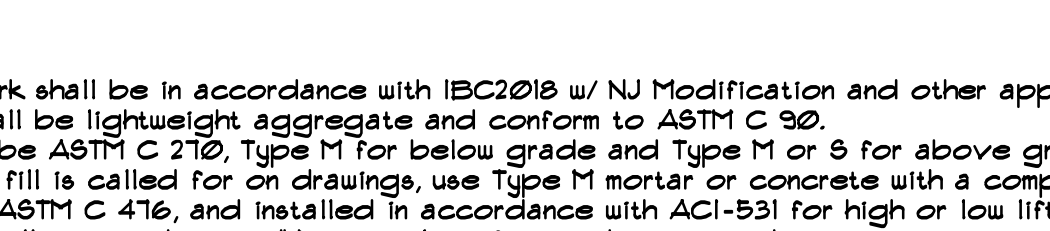
ROOF LOADING SCHEDULE

LOAD TYPE	LOAD VALUE	UNITS
DEAD LOAD:		
ROOFING	6.0	P.S.F.
INSULATION	2.0	P.S.F.
METAL ROOF DECK	2.0	P.S.F.
STEEL JOISTS	3.0	P.S.F.
STRUCTURAL STEEL	4.0	P.S.F.
MECH. ELEC.	2.0	P.S.F.
CEILING	1.0	P.S.F.
MISC.	5.0	P.S.F.
LIVE LOAD:	25.0	P.S.F.
DESIGN LOAD:	25.0	P.S.F.
GROUND SNOW LOAD (Pg)	25.0	P.S.F.
Drift Loading to:	21.0	P.S.F.
DRIFT LENGTH	113 FEET	



LATERAL LOADING SCHEDULE

LOAD TYPE	LOAD VALUE	UNITS
DEAD LOAD:		
1 1/2" CONCRETE SLAB	44.0	P.S.F.
METAL FLOOR DECK	3.0	P.S.F.
STRUCTURAL STEEL	6.0	P.S.F.
MECH. ELEC.	3.0	P.S.F.
MISC.	6.0	P.S.F.
LIVE LOAD:	50.0	P.S.F.
OFFICES	50.0	P.S.F.
PARTITIONS	30.0	P.S.F.
CORRIDORS	80.0	P.S.F.
MEZZANINE STORAGE	125.0	P.S.F.

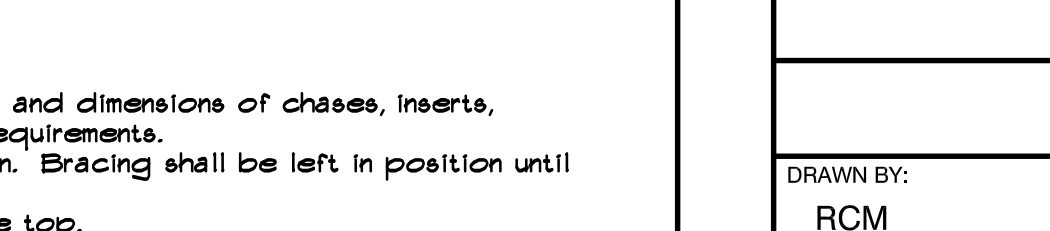
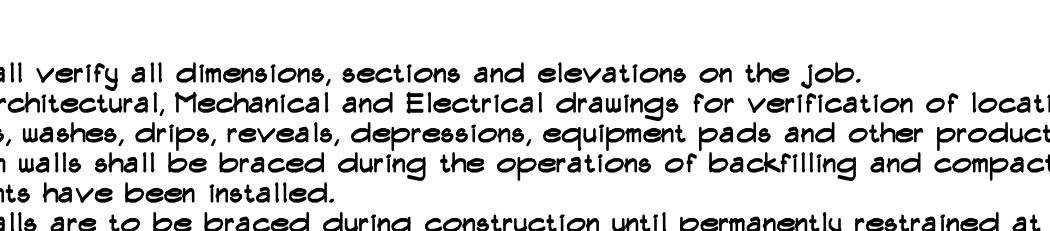
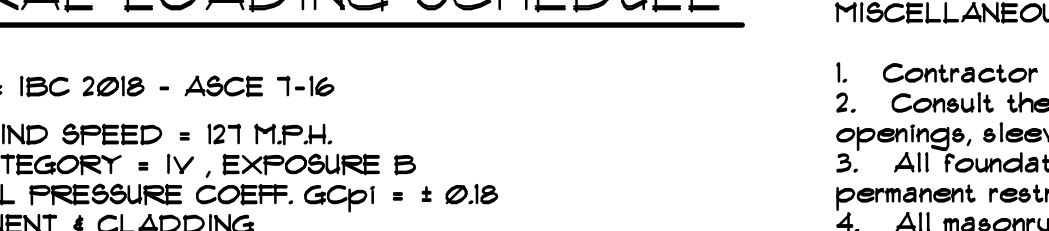
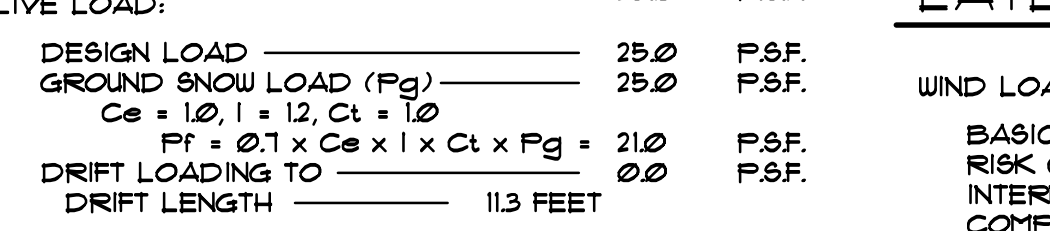


ROOF LOADING SCHEDULE

LOAD TYPE	LOAD VALUE	UNITS
DEAD LOAD:		
ROOFING	6.0	P.S.F.
INSULATION	2.0	P.S.F.
METAL ROOF DECK	2.0	P.S.F.
STEEL JOISTS	3.0	P.S.F.
STRUCTURAL STEEL	4.0	P.S.F.
MECH. ELEC.	2.0	P.S.F.
CEILING	1.0	P.S.F.
MISC.	5.0	P.S.F.
LIVE LOAD:	25.0	P.S.F.
DESIGN LOAD:	25.0	P.S.F.
GROUND SNOW LOAD (Pg)	25.0	P.S.F.
Drift Loading to:	21.0	P.S.F.
DRIFT LENGTH	113 FEET	

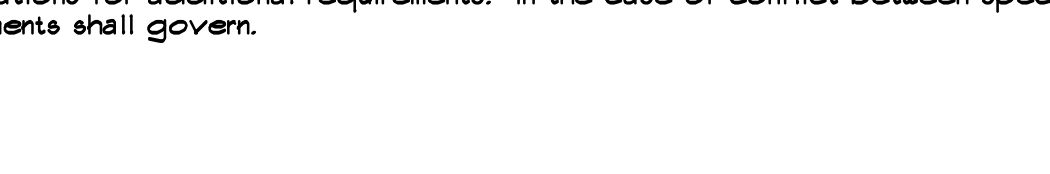
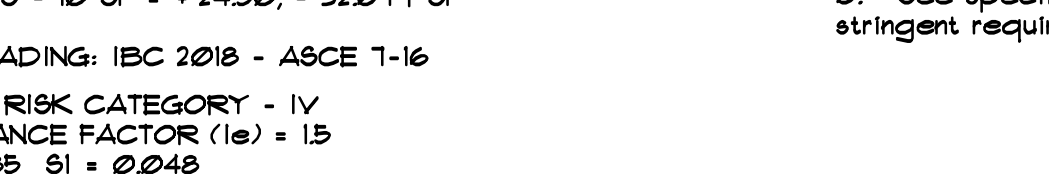
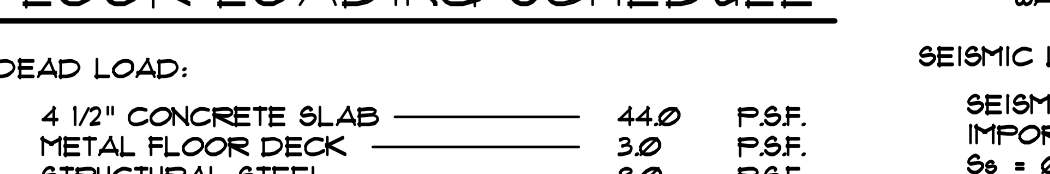
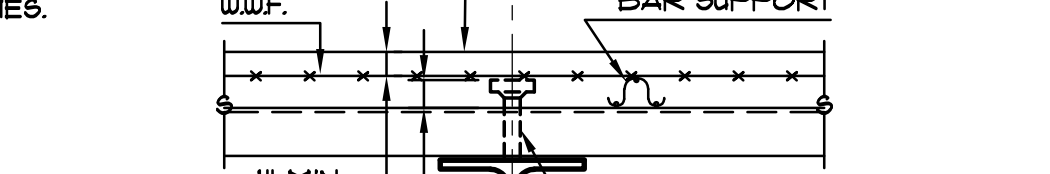
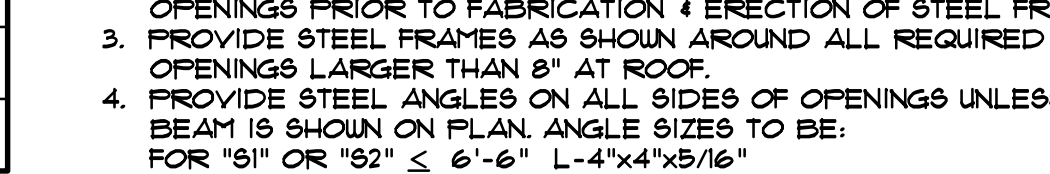
LATERAL LOADING SCHEDULE

LOAD TYPE	LOAD VALUE	UNITS
DEAD LOAD:		
1 1/2" CONCRETE SLAB	44.0	P.S.F.
METAL FLOOR DECK	3.0	P.S.F.
STRUCTURAL STEEL	6.0	P.S.F.
MECH. ELEC.	3.0	P.S.F.
MISC.	6.0	P.S.F.
LIVE LOAD:	50.0	P.S.F.
OFFICES	50.0	P.S.F.
PARTITIONS	30.0	P.S.F.
CORRIDORS	80.0	P.S.F.
MEZZANINE STORAGE	125.0	P.S.F.



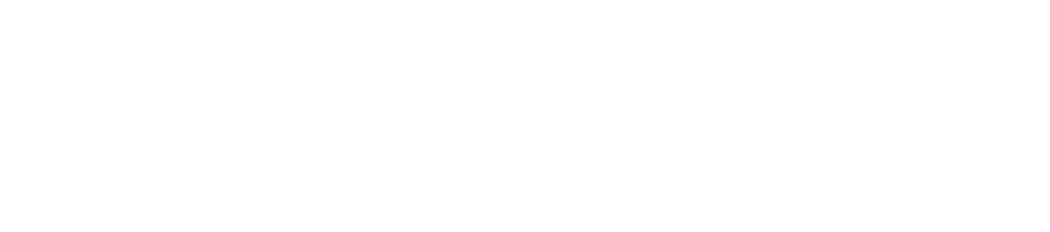
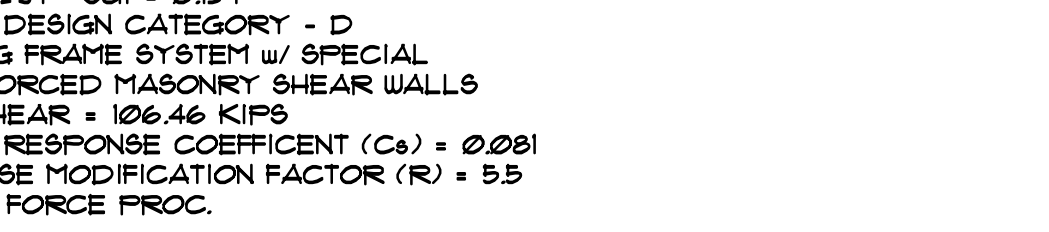
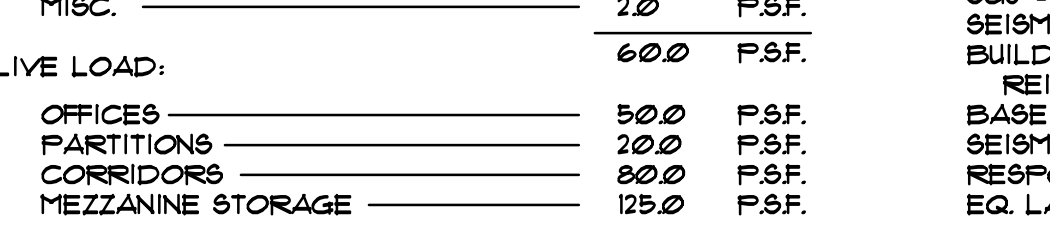
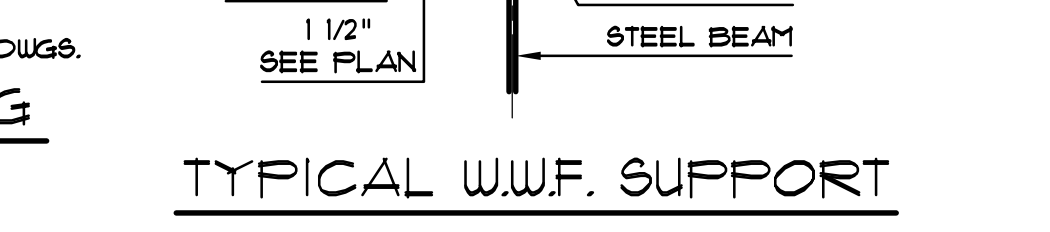
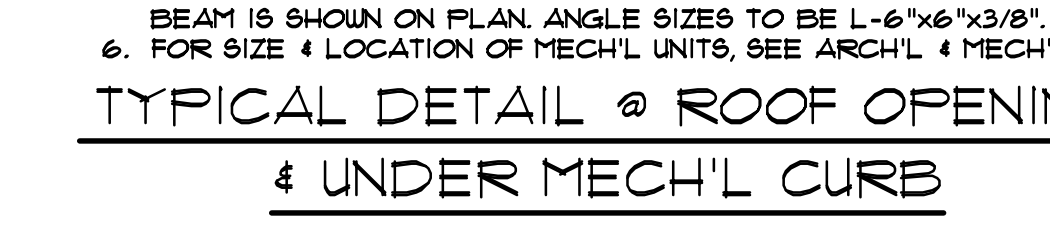
ROOF DECK WELDING PATTERN

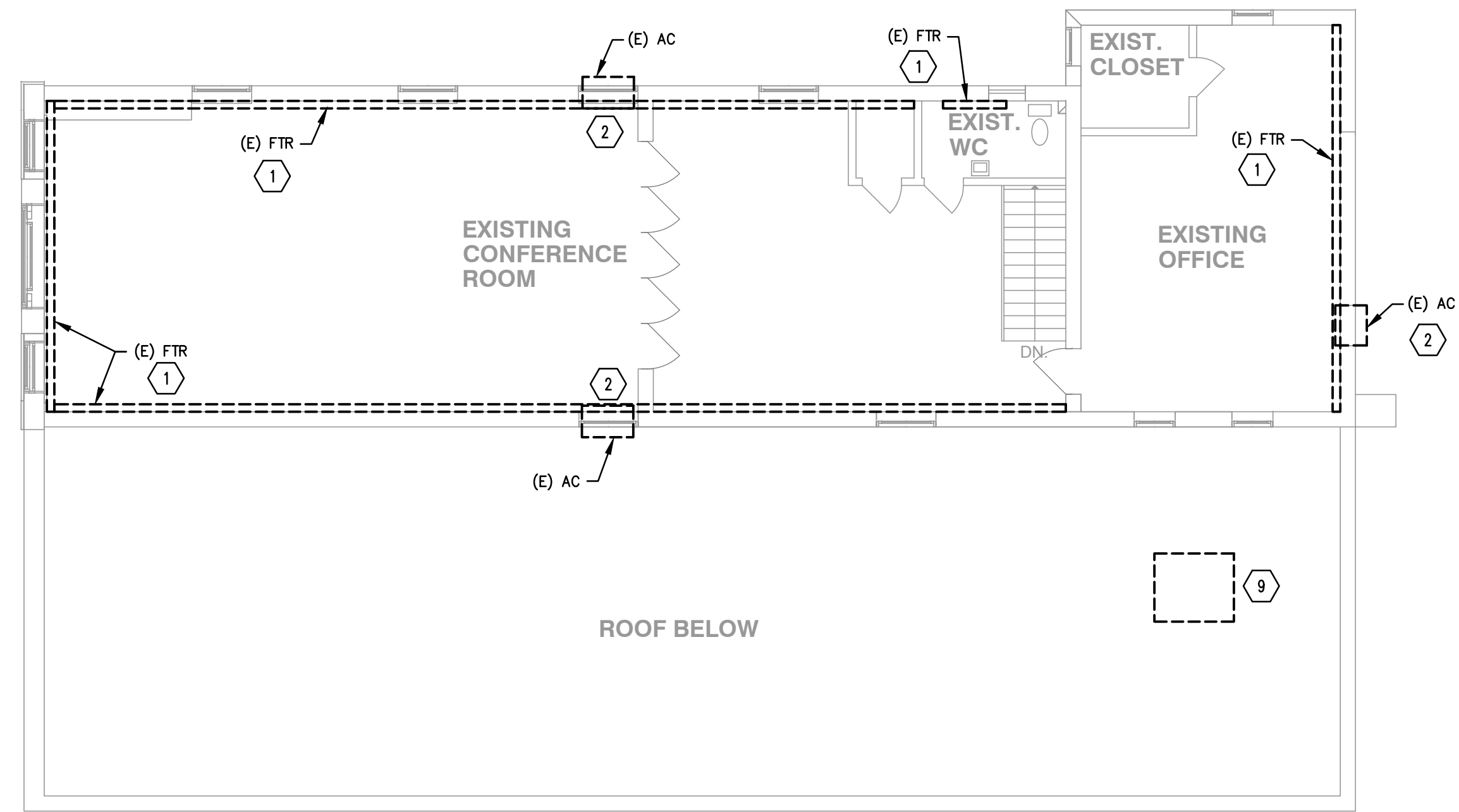
ROOF DECK WELDING PATTERN	ROOF DECK WELDING PATTERN
3" ROOF DECK WELDING PATTERN	3" ROOF DECK WELDING PATTERN
INTERMEDIATE 24"	INTERMEDIATE 24"
36"	36"
INTERMEDIATE 30"	INTERMEDIATE 30"



LOOSE LINTEL SCHEDULE
(FOR 4", 8", 12", 16" WALLS)

MASONRY OPENINGS	LINTEL SIZE	REMARKS
UP TO 4'-0"	L - 3 1/2" x 3 1/2" x 1/4"	
4'-1" TO 6'-0"	L - 5" x 3 1/2" x 5/16"	
6'-1" TO 8'-0"	L - 6" x 3 1/2" x 5/16"	
OVER 8'-0"	W 8 x 18 + IE	

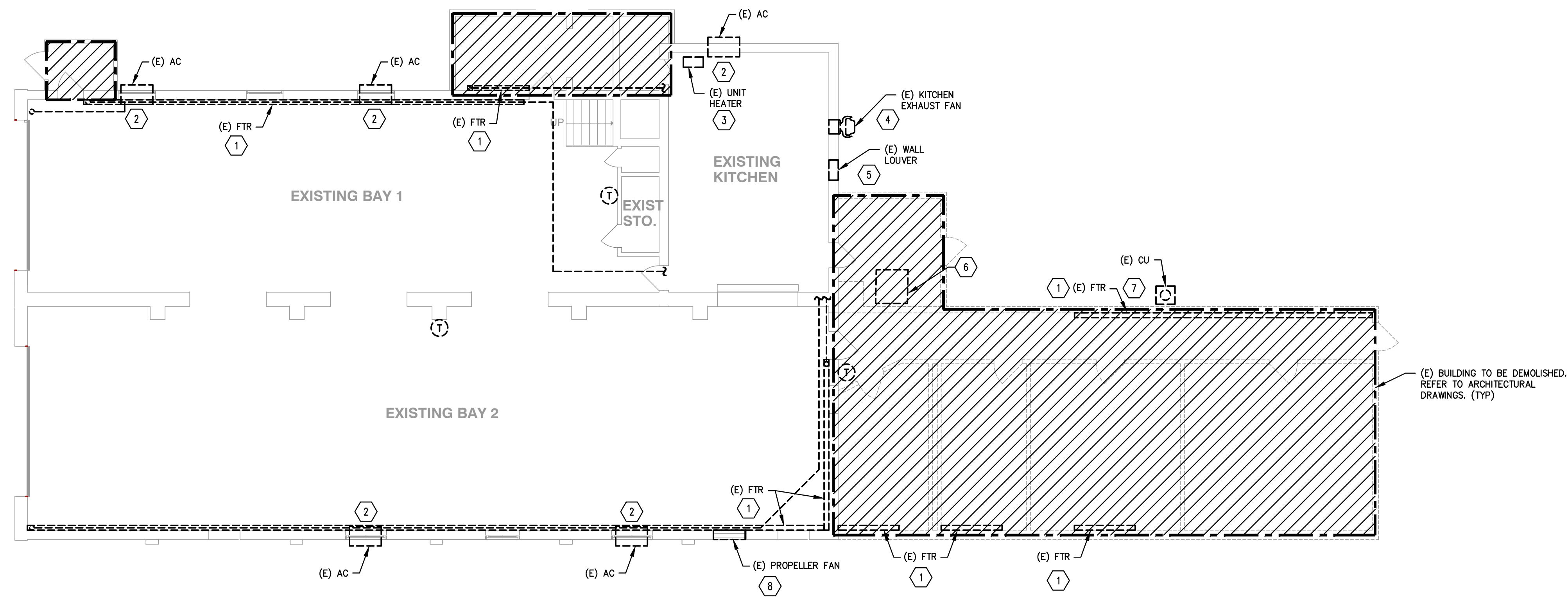




2 SECOND FLOOR PLAN - HVAC DEMOLITION
 HD1 SCALE 1/8" = 1'-0"

DEMOLITION KEY NOTES:

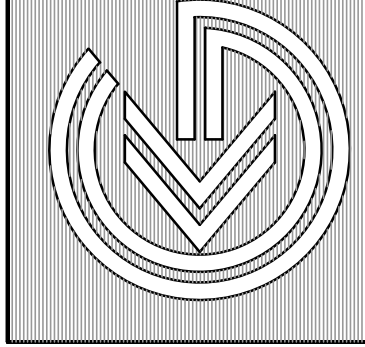
- 1 EXISTING HEATING HOT WATER FINNED TUBE RADIATOR (FTR) AND ASSOCIATED ENCLOSURE, CONTROLS, PIPING, VALVES, AND APPURTENANCES SHALL BE REMOVED IN THEIR ENTIRETY. PATCH WALL, FLOOR AND CEILING TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.
- 2 EXISTING WINDOW/WALL AIR CONDITIONER (AC) SHALL BE CAREFULLY REMOVED AND DISPOSED OF FOLLOWING CURRENT ENVIRONMENTAL STANDARDS. PATCH WALL TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.
- 3 EXISTING UNIT HEATER AND ASSOCIATED CONTROLS, PIPING, VALVES, AND SUPPORTS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH WALL TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.
- 4 EXISTING SIDEWALL KITCHEN EXHAUST FAN AND ASSOCIATED HOOD, DUCTWORK, FIRE SUPPRESSION SYSTEM, CONTROLS, AND APPURTENANCES SHALL BE REMOVED IN THEIR ENTIRETY. PATCH WALL, FLOOR AND CEILING TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES. DISPOSE OF ANSUL SYSTEM FOLLOWING CURRENT ENVIRONMENTAL STANDARDS.
- 5 EXISTING WALL LOUVER SHALL BE REMOVED IN ITS ENTIRETY. PATCH WALL TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.
- 6 EXISTING HEATING HOT WATER SYSTEM AND ASSOCIATED BOILER, PUMPS, PIPING, BREACHING, CONTROLS, APPURTENANCES, ETC. SHALL BE REMOVED IN ITS ENTIRETY. PATCH WALL, FLOOR AND CEILING TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.
- 7 EXISTING AIR CONDITIONING SYSTEM AND ASSOCIATED GRADE MOUNTED CONDENSING UNIT, CONCRETE PAD, DUCTWORK, AIR DEVICES, CONTROLS REFRIGERANT PIPING AND SUPPORTS, SHALL BE REMOVED IN THEIR ENTIRETY. RECOVER REFRIGERANT PER LATEST ENVIRONMENTAL STANDARDS PRIOR TO DEMOLITION WORK. PATCH WALL, FLOOR AND CEILING TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.
- 8 EXISTING PROPELLER FAN SHALL BE REMOVED IN ITS ENTIRETY. PATCH WALL TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.
- 9 EXISTING ROOFTOP UNIT AND ASSOCIATED CONTROLS, DUCTWORK, AIR DEVICES, PIPING, EQUIPMENT RAILS, ETC. SHALL BE REMOVED IN THEIR ENTIRETY. RECOVER REFRIGERANT PER LATEST EPA STANDARDS PRIOR TO DEMOLITION WORK. PATCH ROOF TO MATCH EXISTING ADJACENT CONDITIONS & FINISHES.



1 FIRST FLOOR PLAN - HVAC DEMOLITION
 HD1 SCALE 1/8" = 1'-0"

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 NJ 38606



RELIEF FIRE COMPANY NO. 1
 ADDITION / RENOVATION
 BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: FLOOR PLANS - HVAC DEMOLITION

DRAWING DATE:
 01 JULY 2020

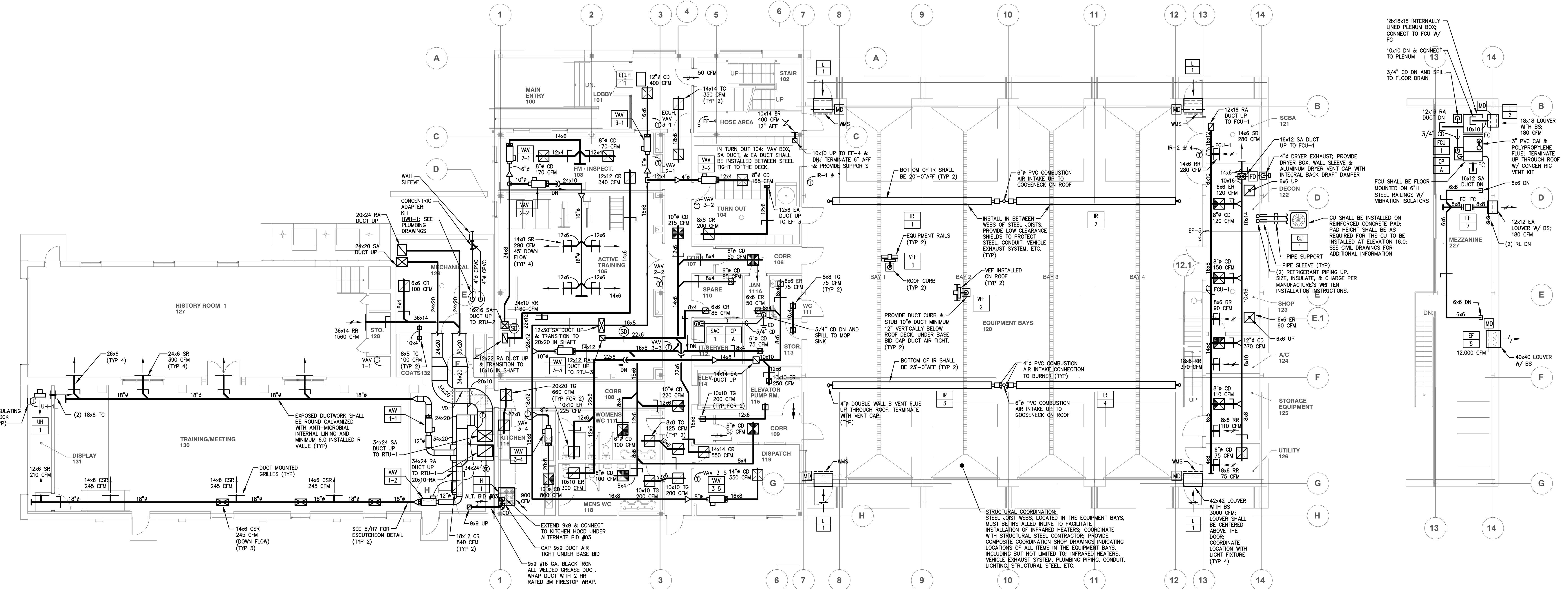
REVISION DATE:

DRAWN BY:
SLB
 COMMISSION NO.
5475B

HD1

WIND & SEISMIC RESTRAINTS NOTES

1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING & DUCTWORK WHERE THEY CROSS SEISMIC JOINTS, WHERE ADJACENT SECTIONS OR BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE THEY TERMINATE WITH CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM THE ONE SUPPORTING THEM AS THEY APPROACH EQUIPMENT.
2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL DOCUMENTS.
3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL DOCUMENTS.



1 FIRST FLOOR PLAN - HVAC
 SCALE 1/8" = 1'-0"

- NOTES:
1. ALL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAXIMIZE HEAD ROOM.
 2. COORDINATE DUCTWORK WITH LIGHTING IN ACTIVE TRAINING 105.
 3. RUN REFRIGERANT PIPING BETWEEN SAC AND SCU ON ROOF. SIZE, INSULATE, & CHARGE PER UNIT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

ALTERNATE BID #03
 NOTE:
 1. ALL KITCHEN HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF #16 GAUGE BLACK IRON WITH CONTINUOUSLY WELDED SEAMS AND CONTINUOUSLY WELDED JOINT CONNECTIONS AS PER NFPA 96. THE EXTERIOR OF ALL KITCHEN HOOD EXHAUST DUCTS SHALL HAVE 1-1/2" x 1-1/2" x 1/8" WELDED ANGLES, PUNCHED FOR SECURING BLOCK INSULATION. PROVIDE 18" x 12" INSULATED DOUBLE WALL ACCESS DOORS ON SIDE OF DUCT AT 15' SPACING. PITCH DUCTWORK TO HOOD. THE PORTION FOR DUCTWORK EXPOSED TO VIEW IN THE KITCHEN SHALL BE OF SAME GAUGE AND MATERIAL AS THE HOOD. HOOD DUCTS SHALL CONFORM TO NFPA #96.

2 MEZZANINE PLAN - HVAC
 SCALE 1/8" = 1'-0"

RELIEF FIRE COMPANY NO. 1
 ADDITION / RENOVATION
 BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY

TITLE: FIRST FLOOR PLAN & MEZZANINE - HVAC

DRAWING DATE:
 01 JULY 2020

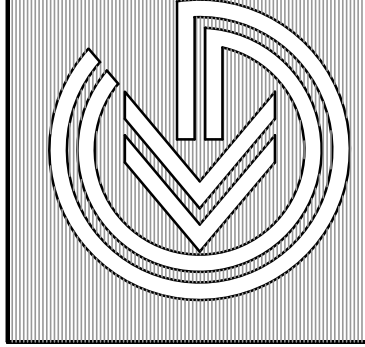
REVISION DATE:

DRAWN BY:
MML
 COMMISSION NO.
5475B

H1
 2 OF 9

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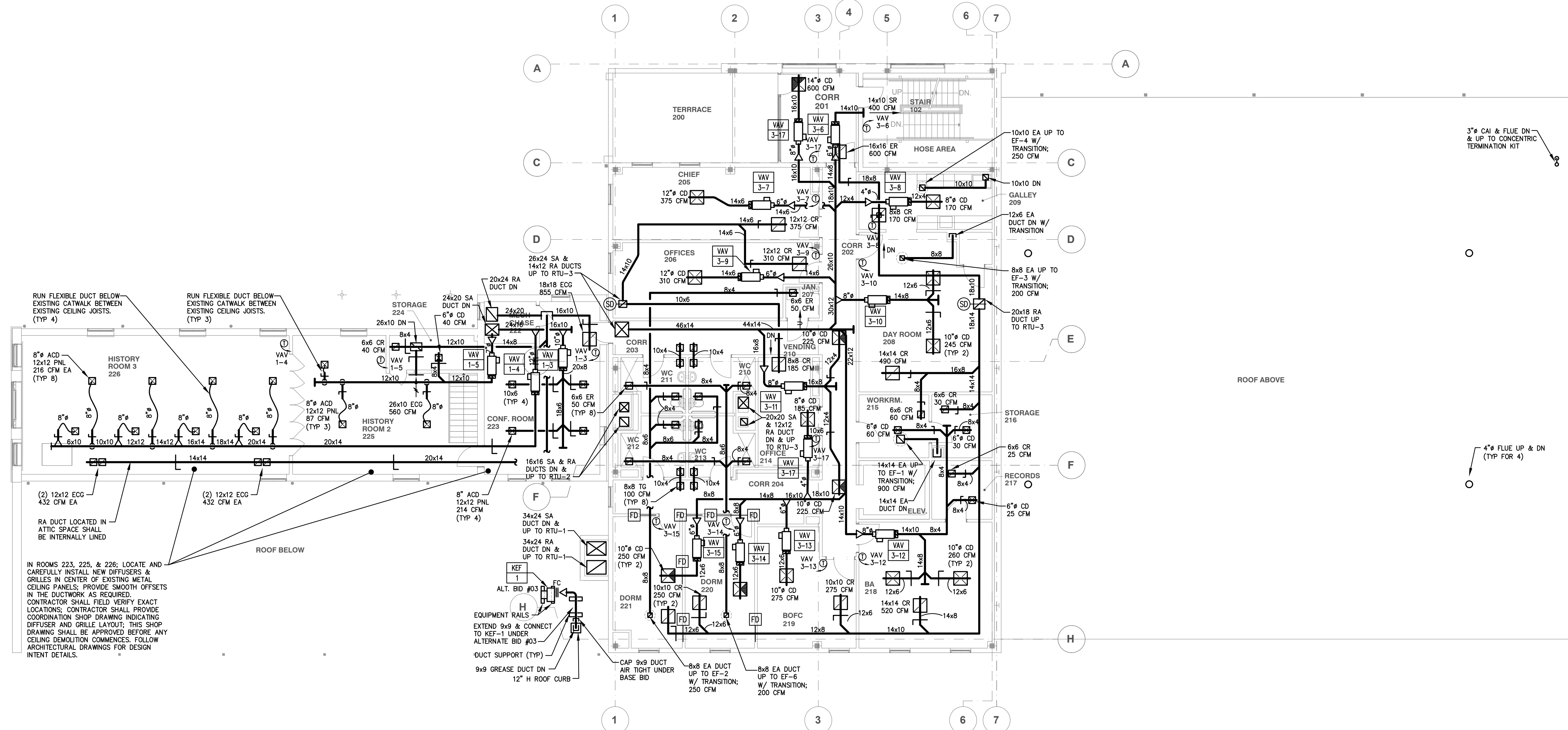
KELTER & GILLICO
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 Phone: 762-91-00
 Professional Engineer
 NJ 36856



June 26, 2019 9:33:24 a.m.
 Drawing: 2637.rvt.DWG

WIND & SEISMIC RESTRAINTS NOTES

1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING & DUCTWORK WHERE THEY CROSS SEISMIC JOINTS, WHERE ADJACENT SECTIONS OR BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE THEY TERMINATE WITH CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM THE ONE SUPPORTING THEM AS THEY APPROACH EQUIPMENT.
2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL DOCUMENTS.
3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL DOCUMENTS.



RUN FLEXIBLE DUCT BELOW EXISTING CATWALK BETWEEN EXISTING CEILING JOISTS. (TYP 4)

8" ACD 12x12 PNL 216 CFM EA (TYP 8)

(2) 12x12 ECG 432 CFM EA

IN ROOMS 223, 225, & 226; LOCATE AND CAREFULLY INSTALL NEW DIFFUSERS & GRILLES IN CENTER OF EXISTING METAL CEILING PANELS. PROVIDE SMOOTH OFFSETS IN THE DUCTWORK AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS; CONTRACTOR SHALL PROVIDE COORDINATION SHOP DRAWING INDICATING DIFFUSER AND GRILLE LAYOUT; THIS SHOP DRAWING SHALL BE APPROVED BEFORE ANY CEILING DEMOLITION COMMENCES. FOLLOW ARCHITECTURAL DRAWINGS FOR DESIGN INTENT DETAILS.

1 SECOND FLOOR PLAN - HVAC
SCALE 1/8" = 1'-0"

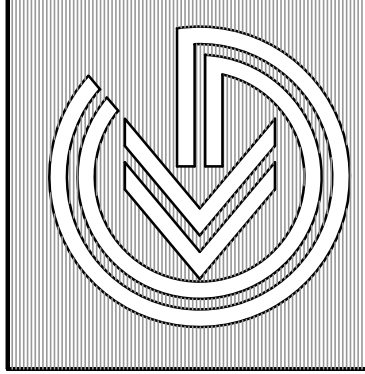
- NOTES:**
1. ALL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAXIMIZE HEAD ROOM.
 2. MODIFY EXISTING ROOF MEMBERS AS REQUIRED TO FACILITATE DUCTWORK INSTALLATION IN ATTIC.
 3. MODIFY SIZE OF DUCTWORK THROUGH ATTIC SPACE AS REQUIRED; MODIFIED SIZES SHALL BE OF EQUIVALENT CROSS SECTIONAL AREA.

ALTERNATE BID #03
NOTE:
1. ALL KITCHEN HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF #16 GAUGE BLACK IRON WITH CONTINUOUSLY WELDED SEAMS AND CONTINUOUSLY WELDED JOINT CONNECTIONS AS PER NFPA 96. THE EXTERIOR OF ALL KITCHEN HOOD EXHAUST DUCTS SHALL HAVE 1-1/2" x 1-1/2" x 1/8" WELDED ANGLES, PUNCHED FOR SECURING BLOCK INSULATION. PROVIDE 18" x 12" INSULATED DOUBLE WALL ACCESS DOORS ON SIDE OF DUCT AT 15' SPACING. PITCH DUCTWORK TO HOOD. THE PORTION FOR DUCTWORK EXPOSED TO VIEW IN THE KITCHEN SHALL BE OF SAME GAUGE AND MATERIAL AS THE HOOD. HOOD DUCTS SHALL CONFORM TO NFPA #96.

June 26, 2019 9:33:24 a.m.
Drawing: 2657 H2.DWG

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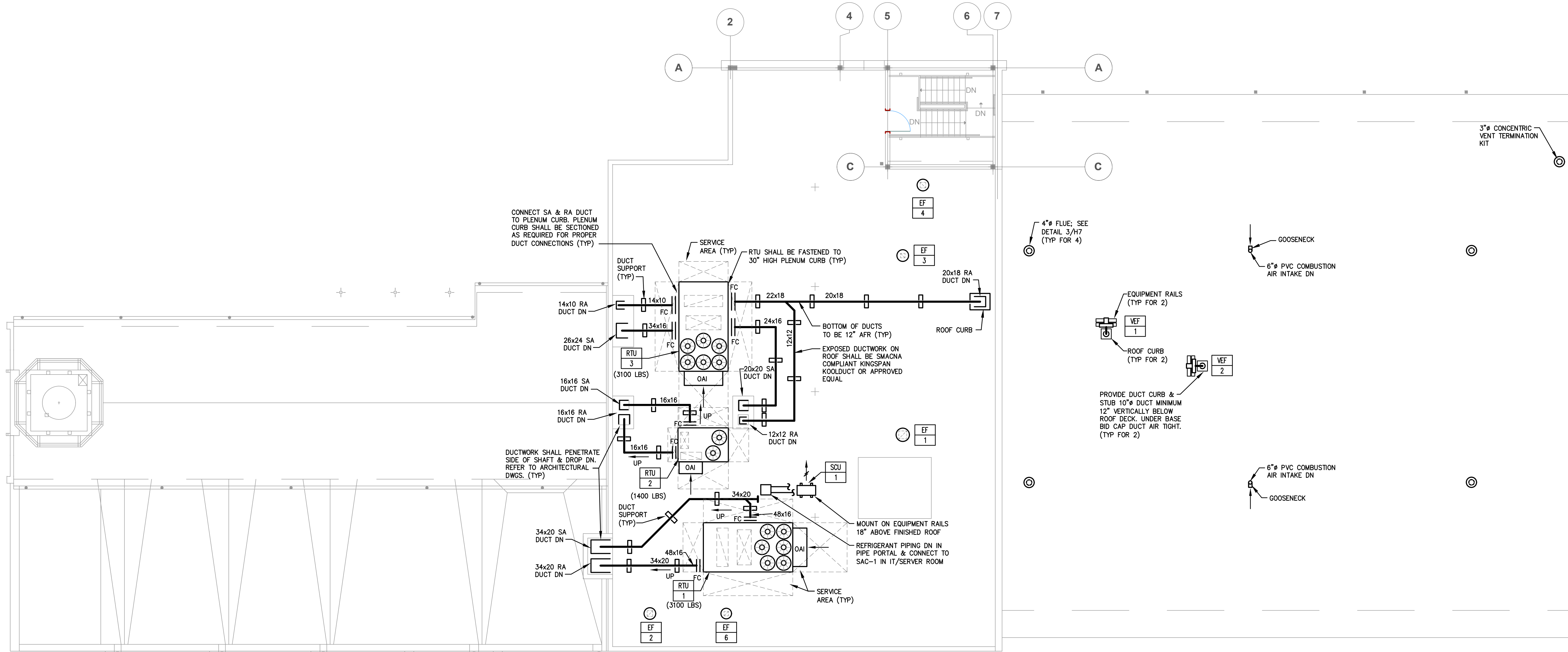
RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: SECOND FLOOR PLAN - HVAC

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	MML
COMMISSION NO.:	5475B

H2
3 OF 9

WIND & SEISMIC RESTRAINTS NOTES

1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING & DUCTWORK WHERE THEY CROSS SEISMIC JOINTS, WHERE ADJACENT SECTIONS OR BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS AND WHERE THEY TERMINATE WITH CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM THE ONE SUPPORTING THEM AS THEY APPROACH EQUIPMENT.
2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL DOCUMENTS.
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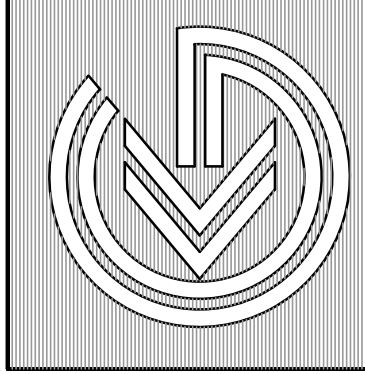
1
H3 **ROOF PLAN - HVAC**
SCALE 1/8" = 1'-0"

NOTE

1. ALL SUPPLY AND RETURN/EXHAUST AIR DUCTWORK ABOVE ROOF SHALL BE PRE-FABRICATED DOUBLE-LAYER DUCTING SYSTEM WITH 0.032" ALUMINUM JACKET WITH KINGSPAN KOOL DUCT PANELS THAT ARE UL LISTED AS A CLASS 1 AIR DUCT SYSTEM BY PTM MANUFACTURING, LLC DUAL-TECH OR APPROVED EQUAL. SECURE AND SUPPORT TO ROOF ACCORDING TO CONTRACT DOCUMENTS AND PER MANUFACTURER'S INSTRUCTIONS.

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Professional Engineer
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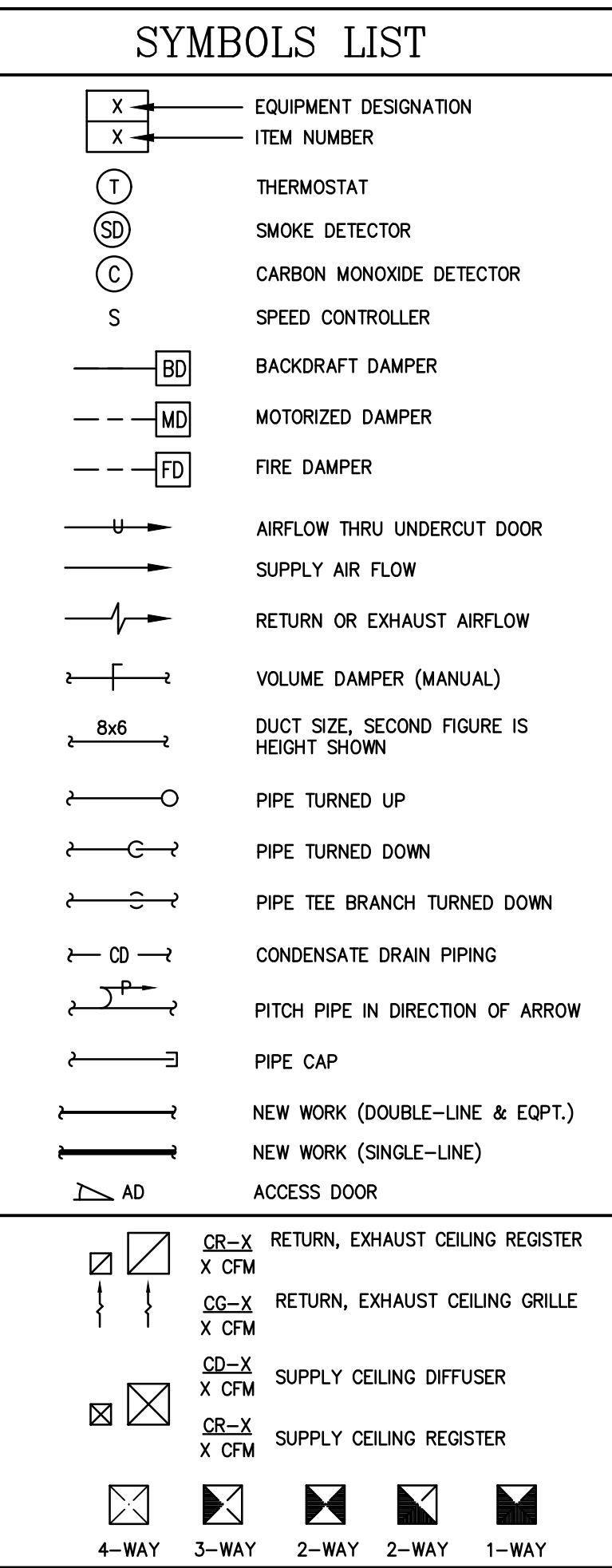


RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: ROOF PLAN - HVAC

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	EL
COMMISSION NO.:	5475B

H3
4 OF 9

ABBREVIATIONS table with columns for AC, AD, AFF, AFR, AMPS, APPROX, ARCH, APD, ATC, B, BHP, BLDG, BR, BTUH, CC, CD, CE, CENTR, CM, CONC, COND, COIN, CO, CP, CR, CU, DB, DF, DIA, DIM, DNG, EA, EAT, ECG, ECUH, EDR, EER, EF, EQUIP, ER, ESP, EXIST, FA, FC, FLA, FPI, FPM, FT, G, HP, HVT, HZ, ID, IN. Each entry includes a symbol and its corresponding meaning.



ROOF TOP UNIT SCHEDULE

Table with columns for MARK No., LOCATION, MANUFACTURER, MODEL, SERVICE, RTU-1, RTU-2, RTU-3. Lists units for various locations like HISTORY/TRAINING AREA, ACTIVE TRAINING, OFFICES/DORMS.

UNIT DISCHARGE SOUND DATA table with columns for FREQUENCY, RADIATED SOUND POWER (DB), and unit specifications.

UNIT HEATER SCHEDULE

Table with columns for MARK No., LOCATION, MANUFACTURER, MODEL, TYPE, CAPACITY, MOTOR DATA, WEIGHT, and unit specifications.

CABINET UNIT HEATER SCHEDULE

Table with columns for MARK No., LOCATION, MANUFACTURER, MODEL, TYPE, CAPACITY, MOTOR DATA, WEIGHT, and unit specifications.

SPLIT AC UNIT SCHEDULE

Table with columns for MARK No., MANUFACTURER, SERVICE, COOLING TOTAL/SENS. CAPACITY, REFRIGERANT TYPE, SEER, INDOOR UNIT, OUTDOOR UNIT, and unit specifications.

GAS FIRED INFRARED SPACE HEATER UNIT SCHEDULE

Table with columns for MANUFACTURER, MODEL No., NATURAL GAS DATA, ELECTRICAL DATA, and unit specifications.

VARIABLE AIR VOLUME BOX SCHEDULE

Table with columns for MARK No., BASE MFR, MODEL No., SERVICE, MAXIMUM CFM, MINIMUM CFM, INLET DIA (INCHES), MBH, EAT, LAT, MAX AMP (I/W), KW, ELECTRICAL DATA, and REMARKS.

DIFFUSER & REGISTER SCHEDULE

Table with columns for NO., MARK, REMARKS, and unit specifications.

CONDENSATE PUMP SCHED.

Table with columns for MARK No., MANUFACTURER, MODEL, CAPACITY, LIFT, MOUNTING LOCATION, TANK CAPACITY, MOTOR DATA, and unit specifications.

CARBON MONOXIDE & NITROGEN DIOXIDE MONITORING STATION

Table with columns for MANUFACTURER, CONTROLLER, MODEL No., QUANTITY, VENTILATION ZONES, CO TRANSMITTER, MODEL No., QUANTITY, COVERAGE, NO2 TRANSMITTER, MODEL No., QUANTITY, COVERAGE, ACCESSORIES, and unit specifications.

EXHAUST FAN SCHEDULE

Table with columns for NO., MFR, MODEL, TYPE, RPM, CFM, SP IN WC, HP (WATTS), BHP (WATTS), V/Ph/Hz, SONES (dBA), SERVING, LOCATION, WEIGHT (LBS), and REMARKS.

VEHICLE EXHAUST FAN SCHEDULE

Table with columns for NO., MFR, MODEL, TYPE, RPM, CFM, SP IN WC, HP (WATTS), BHP (WATTS), V/Ph/Hz, SONES (dBA), SERVICE, LOCATION, WEIGHT (LBS), and REMARKS.

CONDENSING UNIT SCHEDULE

Table with columns for MARK No., SYSTEM No., LOCATION, MANUFACTURER, MODEL No., NOMINAL COOLING TONS, TOTAL CAPACITY, EER, COMPRESSOR DATA, OUTDOOR FAN DATA, REFRIGERANT DATA, ELECTRICAL DATA, OPERATING WEIGHT (APPROX.), DIMENSIONS (L x W x H), and unit specifications.

FAN COIL UNIT SCHEDULE

Table with columns for MARK No., MANUFACTURER, MODEL & SIZE, TYPE, AREA SERVED, SUPPLY AIR, RETURN AIR, OUTSIDE AIR, FAN DATA, MOTOR DATA, DX COOLING COIL, GAS HEAT DATA, FILTER DATA, MOTOR OPERATED DAMPER, and unit specifications.

LOUVER SCHEDULE

Table with columns for MARK, SYSTEM No., SERVICE, MANUFACTURER, MODEL No., TYPE, MATERIAL, GAUGE, BLADE SPACING, SIZE (W x H x D), CAPACITY, FREE AREA, FACE VELOCITY, PRESSURE DROP, BEGGINGING OF WATER PENETRATION, and unit specifications.

NOTE: REFER TO SPECIFICATIONS FOR LISTING OF APPROVED EQUALS.

REGAN YOUNG ENGLAND BUTERA REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN

KELTER & GILLICO consulting engineers

RELIEF FIRE COMPANY NO. 1 ADDITION / RENOVATION

DRAWING DATE: 01 JULY 2020

DRAWN BY:

COMMISSION NO. 5475B

H4

KITCHEN HOOD SCHEDULE – ALTERNATE BID #03

MARK No.	MANUFACTURER	MODEL	LENGTH	EXHAUST CFM	EXHAUST RISER Ø x H	DIMENSIONS L x W x H	UTILITY CABINET L x W x H	WEIGHT LBS
H-1	CAPTIVE AIRE	5424 ND-2	4'-0"	900	10" x 4"	48" x 54" x 24"	12" x 54" x 24"	400

NOTES:

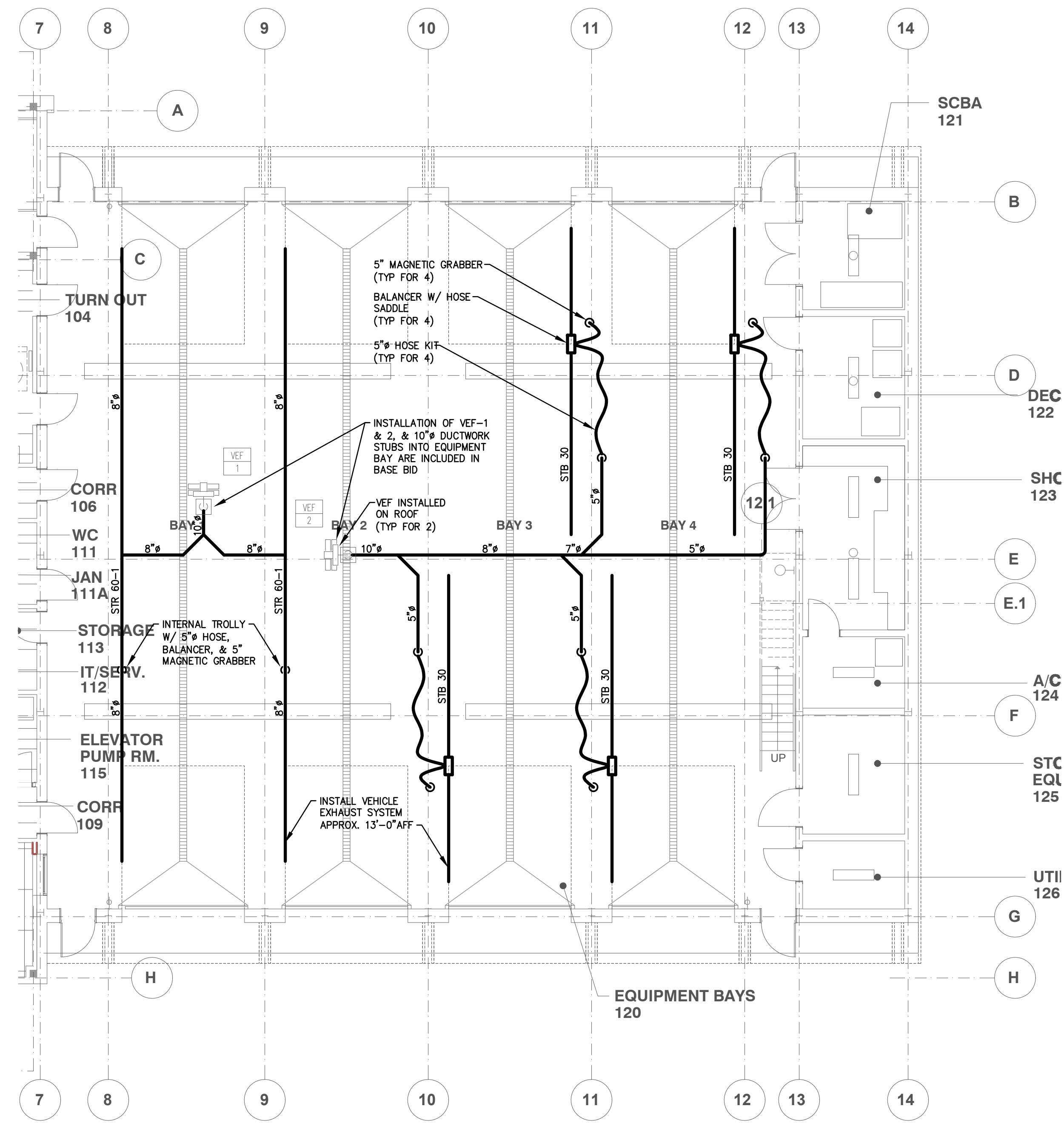
- HOOD CONSTRUCTION SHALL BE OF 18 GAUGE TYPE 430 STAINLESS STEEL.
- PROVIDE STAINLESS STEEL 3" WIDE FULL HEIGHT STANDOFF (BETWEEN WALL AND BACK OF HOOD).
- PROVIDE GREASE DRAIN WITH REMOVABLE CUP.
- PROVIDE TWO (2) 85% EFFICIENT CARTRIDGE SLOO FILTERS.
- PROVIDE THERMAL SENSOR AND WIRE TO HOOD CONTROL PANEL.
- PROVIDE UL LABEL.
- PROVIDE CANDY LIGHT FIXTURES, HIGH TEMPERATURE ASSEMBLY.
- PROVIDE COMPLETE UL 300 LISTED FIRE SUPPRESSION SYSTEM WITH ELECTRIC GAS VALVE AND STRAINER.
- PROVIDE FAN AND LIGHT CONTROL PANEL.
- PROVIDE GALVANIZED HANGING ANGLES & HARDWARE.
- PROVIDE 1" WIDE INSULATED BACK SPLASH.
- THE FIRE SYSTEM ACTIVATION SHALL SHUTDOWN FUEL, ELECTRIC, AND GAS TO ALL APPLIANCE AND THE FIRE ALARM PANEL SHALL ACTIVATE AN AUDIBLE ALARM.
- PROVIDE A REMOTE PULL STATION TO ACTIVATE FIRE SUPPRESSION SYSTEM. INSTALL PULL STATION 10-20 FEET FROM THE HOOD IN THE PATH OF EGRESS FROM THE PROTECTED AREA AT 48" AFF. COORDINATE FINAL LOCATION OF PULL STATION WITH END USER.
- ALL KITCHEN HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF #16 GAUGE BLACK IRON WITH CONTINUOUSLY WELDED SEAMS AND CONTINUOUSLY WELDED JOINT CONNECTIONS AS PER NFPA BUL. 96. THE EXTERIOR OF ALL KITCHEN HOOD EXHAUST DUCTS SHALL HAVE 1-1/2" x 1-1/2" x 1/8" WELDED ANGLES, PUNCHED FOR SECURING BLOCK INSULATION, WHERE KITCHEN HOOD EXHAUST DUCT RISERS PASS VERTICALLY THROUGH FLOORS OF THE BUILDING, PROVIDE ANGLE CLIPS WELDED TO THE DUCT OF REQUIRED SIZES TO SUPPORT THE WEIGHT OF THE RISER SECTIONS ON THE BUILDING'S STRUCTURE. AT EACH OF THE FLOOR LEVELS, PROVIDE AND INSTALL ALL SUPPLEMENTARY STRUCTURAL STEEL IN SHAFTS TO PROPERLY SUPPORT EXHAUST DUCTWORK FROM BUILDING CONSTRUCTION. PROVIDE 15" x 12" INSULATED DOUBLE WALL ACCESS DOORS ON SIDE OF DUCT AT 15' SPACING. PITCH DUCTWORK TO HOOD. THE PORTION FOR DUCTWORK EXPOSED TO VIEW IN THE KITCHEN SHALL BE OF SAME GAUGE AND MATERIAL AS THE HOOD. HOOD DUCTS SHALL CONFORM TO NFPA #96.

KITCHEN EXHAUST FAN SCHEDULE – ALTERNATE BID #03

NO.	MFR	MODEL	TYPE	RPM	CFM	SP IN WC	HP	FLA	V/Fn/Hz	SONES (dBA)	SERVICE	LOCATION	WEIGHT (LBS)	REMARKS
KEF-1	PENN BARRY	D12	UTILITY SET	1483	900	1.50	0.439	3.50	208/1/60	12.3	KITCHEN HOOD H-1	ROOF	180	

PROVIDE THE FOLLOWING:

- MOTOR W/ THERMAL OVERLOAD PROTECTION, STARTER AND WEATHER PROOF DISCONNECT, UL762 FAT TRAP, EQUIPMENT RAILINGS WITH 1.5" DEFLECTION SPRING VIBRATION ISOLATORS, AND WEATHERPROOF MOTOR HOUSING.
- PROVIDE HIGH HEAT OPERATION UP TO 300°F AND GREASE CLASSIFICATION TESTING.
- MANUAL ON/OFF FAN SWITCH MOUNTED ON KITCHEN HOOD OR WALL.

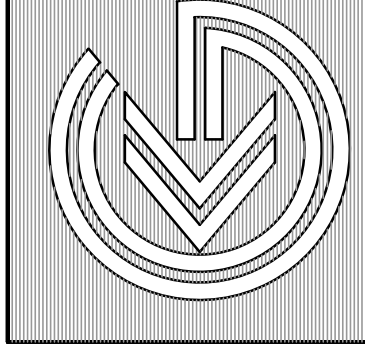


1 ALTERNATE BID #02 – VEHICLE EXHAUST – HVAC

SCALE 1/8" = 1'-0"
 NOTES:
 1. PROVIDE ALL RAILS WITH END STOP SHOCK ABSORBERS.
 2. PROVIDE TAIL PIPE ATTACHMENTS FOR EACH VEHICLE.

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 Pina, Tasha, P.E.
 Professional Engineer
 NJ 38656



RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
 BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: FLOOR PLAN & SCHEDULES - HVAC ALT BID

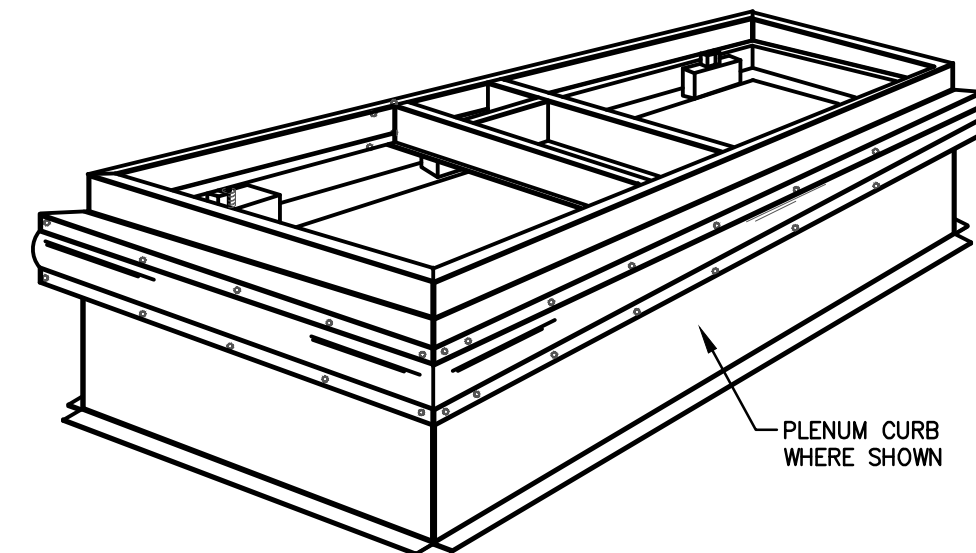
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REVISION DATE:	
DRAWN BY:	MB
COMMISSION NO.:	5475B

H5
 6 OF 9

VENTILATION SCHEDULE

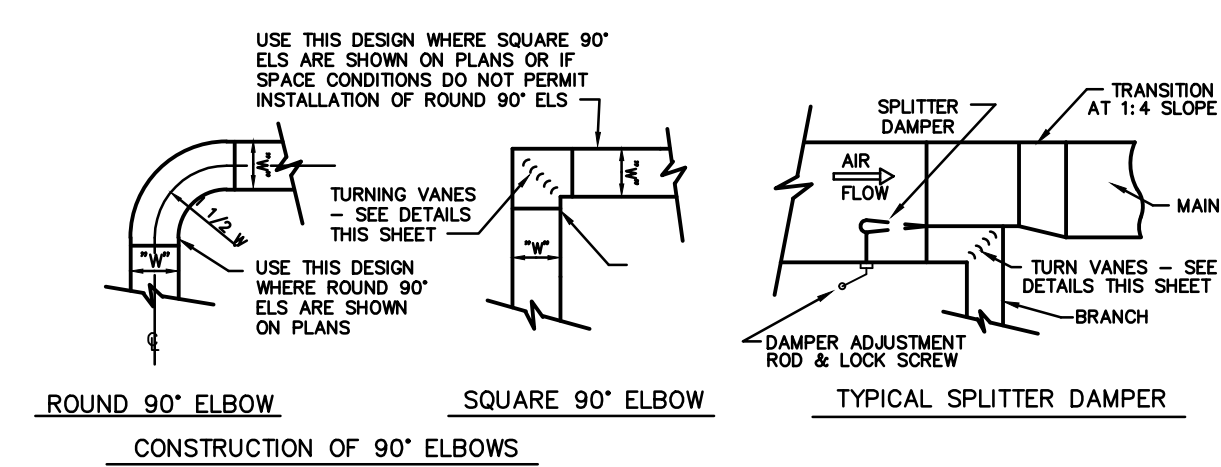
ROOM NAME	ROOM NUMBER	AREA SQ. FT.	No. OF WC & URINAL FIXTURES	No. OF PEOPLE	REQUIRED OUTSIDE AIR (EXHAUST AIR) CFM PER CODE				PROVIDED VENTILATION AIR (CFM) PER DESIGN				EQUIPMENT TAG No.	
					PER PERSON	PER FIXTURE	PER SQ. FT.	TOTAL (MINIMUM)	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST		
LOBBY	101	148	-	3	5	-	0.06	24	400	190	160	160	RTU-3	
FM/INSPECTOR	103	318	-	5	5	-	0.06	45	340	272	68	68	RTU-2	
TURN OUT	104	400	-	-	-	-	0.25	100	165	0	66	246	RTU-3/EF-3	
ACTIVE TRAINING	105	1032	-	8	20	-	0.06	222	1160	928	232	232	RTU-2	
CORRIDOR	106 & 109	150	-	-	-	-	0.06	9	100	0	20	20	RTU-2	
CORRIDOR	107 & 108	556	-	-	-	-	0.06	34	340	0	136	136	RTU-3	
SPARE ROOM	110	72	-	1	5	-	0.06	10	85	51	34	34	RTU-3	
WATER CLOSET	111	48	1	-	-	-	(70)	-	(70)	0	0	75	EF-1	
JANITOR CLOSET	111A	33	1	-	-	-	(50)	-	(50)	0	0	50	EF-1	
ELEVATOR PUMP RM.	115	82	-	-	-	-	-	-	(250)	0	0	250	EF-1	
KITCHEN	116	208	-	1	-	-	-	-	800	480	320	1220	RTU-3/KEF-1	
WOMEN'S TOILET	117	182	3	-	-	-	(70)	-	(210)	100	0	40	225	RTU-3/EF-1
MEN'S TOILET	118	103	4	-	-	-	(70)	-	(280)	100	0	40	300	RTU-3/EF-1
DISPATCH	119	256	-	3	5	-	0.06	31	550	330	220	220	RTU-3	
HISTORY ROOM 1	127	1304	-	14	5	-	0.06	149	1560	1170	390	390	RTU-1	
TRAINING/MEETING	130	1987	-	60	5	-	0.06	420	1470	1313	367	367	RTU-1	
SCBA	121	106	-	-	-	-	0.12	13	280	238	42	42	FDU-1	
DECON	122	120	-	-	-	-	0.12	15	95	81	14	14	FDU-1	
SHOP	123	180	-	-	-	-	0.12	22	140	119	21	21	FDU-1	
A/C	124	70	-	-	-	-	0.12	9	370	314	56	56	FDU-1	
STORAGE EQUIP	125	116	-	-	-	-	0.12	14	95	81	14	14	FDU-1	
UTILITY	126	65	-	-	-	-	0.12	8	55	47	8	8	FDU-1	
CORRIDOR	201	154	-	-	-	-	0.06	10	600	360	240	240	RTU-3	
CORRIDOR	202-204	598	-	-	-	-	0.06	36	450	0	180	180	RTU-3	
CHIEF	205	318	-	11	5	-	0.06	74	375	225	150	150	RTU-3	
OFFICERS	206	305	-	3	5	-	0.06	34	310	186	124	124	RTU-3	
JANITOR'S CLOSET	207	23	1	-	-	-	(50)	-	(50)	0	0	50	EF-2	
DAY ROOM	208	463	-	13	5	-	0.06	93	490	294	196	196	RTU-3	
GALLEY	209	160	-	1	-	-	-	-	170	102	68	68	RTU-3	
OFFICE	214	138	-	2	5	-	0.06	19	185	111	74	74	RTU-3	
WORK ROOM	215	96	-	1	5	-	0.06	12	60	21	14	14	RTU-3	
STORAGE	216	83	-	-	-	-	0.12	11	30	18	12	12	RTU-3	
WATER CLOSET	210-213	74	1	-	-	-	(70)	-	(70)	0	0	100	EF-2	
RECORDS ROOM	217	77	-	-	-	-	0.12	10	25	15	10	10	RTU-3	
BA	218	365	-	10	5	-	0.06	72	510	316	204	204	RTU-3	
BOFC	219	234	-	5	5	-	0.06	39	275	165	110	110	RTU-3	
DORM	220 & 221	200	-	3	5	-	0.06	27	250	150	100	100	RTU-3	
CONFERENCE RM	223	382	-	10	5	-	0.06	73	856	640	214	214	RTU-1	
STORAGE	224	66	-	-	-	-	0.12	4	40	30	10	10	RTU-1	
HISTORY ROOM 2	225	442	-	5	5	-	0.06	52	561	421	140	140	RTU-1	
HISTORY ROOM 3	226	810	-	9	5	-	0.06	94	1728	1296	432	432	RTU-1	

VENTILATION SCHEDULE NOTES:
1. VENTILATION REQUIREMENTS ARE BASED ON THE INTERNATIONAL MECHANICAL CODE (IMC) 2015.

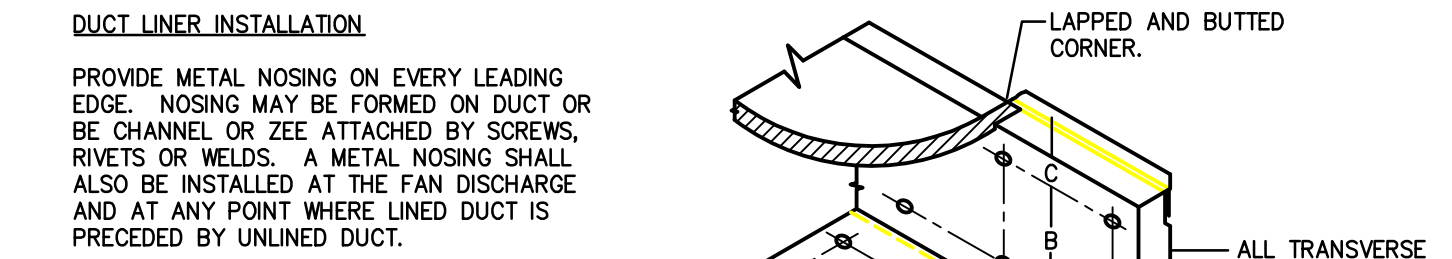


1 ROOF CURB DETAIL
H6 NOT TO SCALE

NOTE: SHIM ROOF CURB AS REQUIRED FOR LEVEL INSTALLATION.



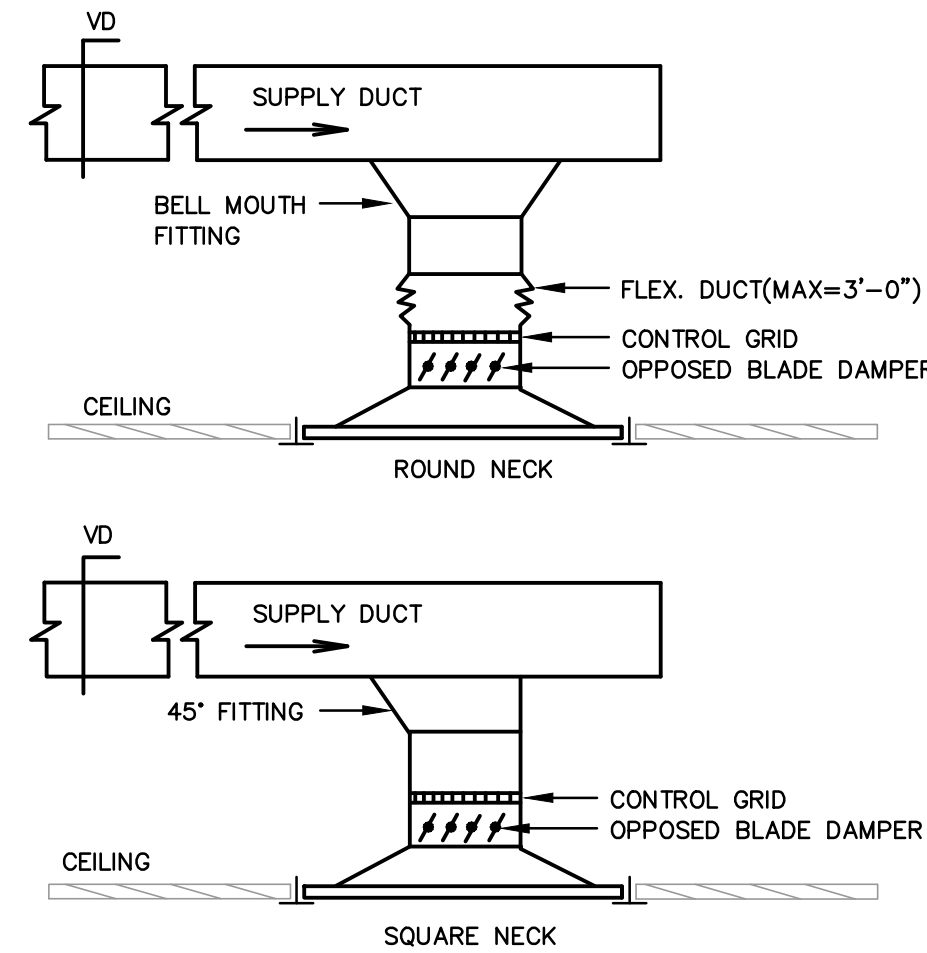
2 DUCTWORK DETAILS
H6 NOT TO SCALE



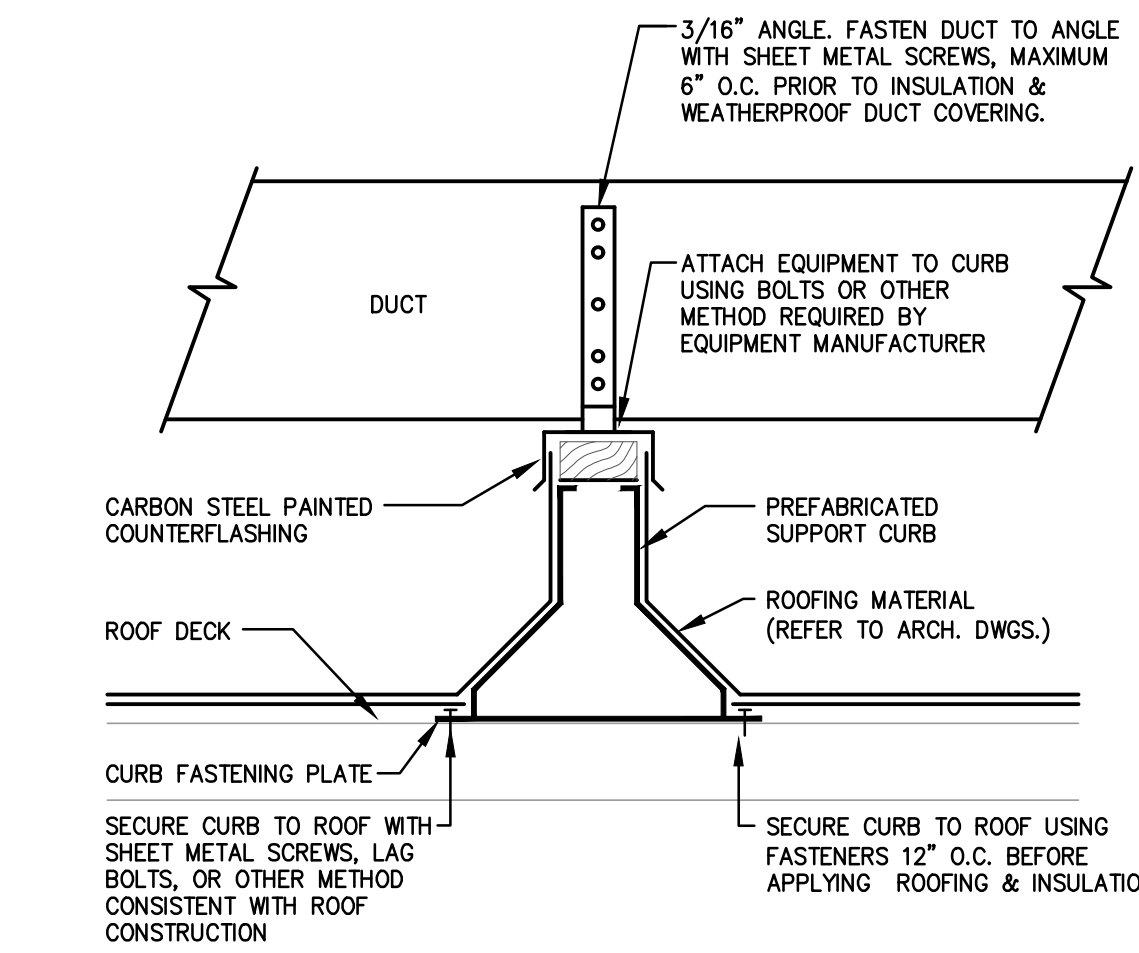
3 DUCT LINER INSTALLATION DETAIL
H6 NOT TO SCALE

VELOCITY*	DIMENSIONS			
	A (IN)	B (IN)	C (IN)	E (IN)
0-2500 FPM	3	12	4	18
2501-5000 FPM	3	6	4	16

* UNLESS A LOWER LEVEL IS SET BY THE LISTING AGENCY.

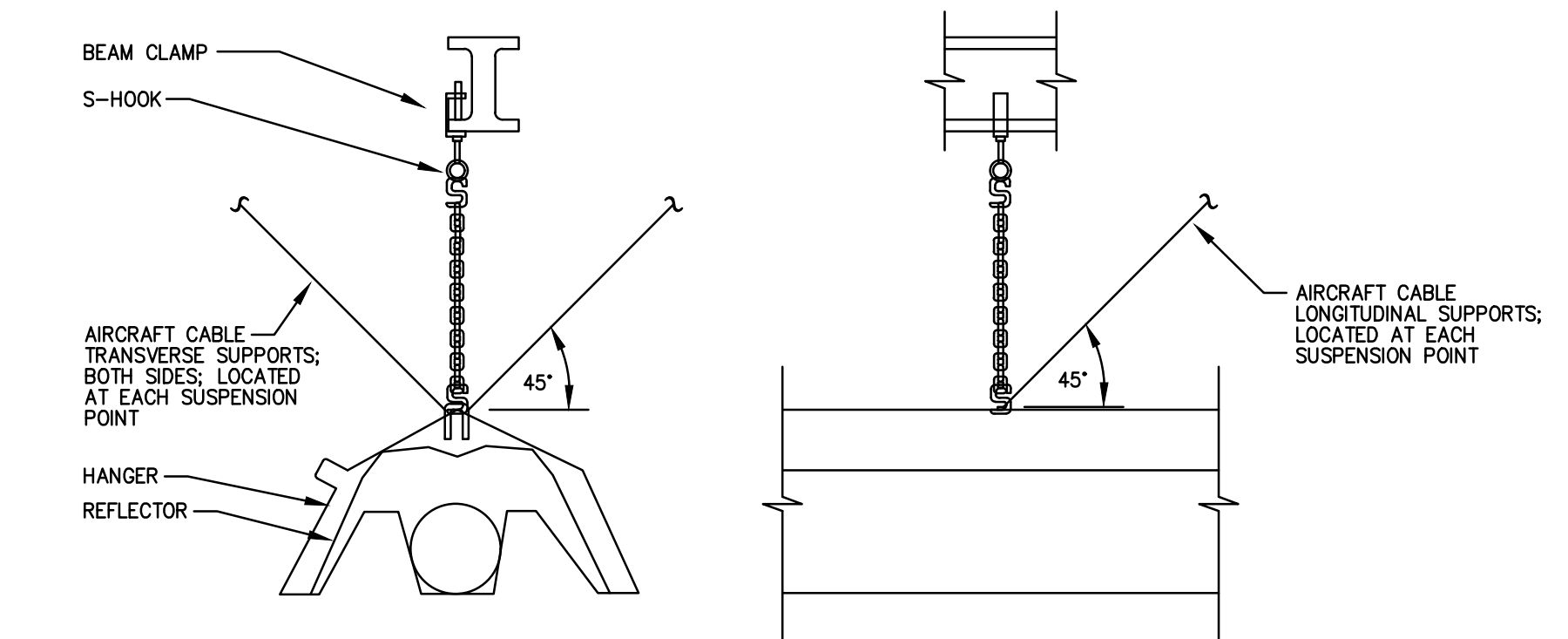


4 CEILING DIFFUSER TAKE-OFF
H6 NOT TO SCALE

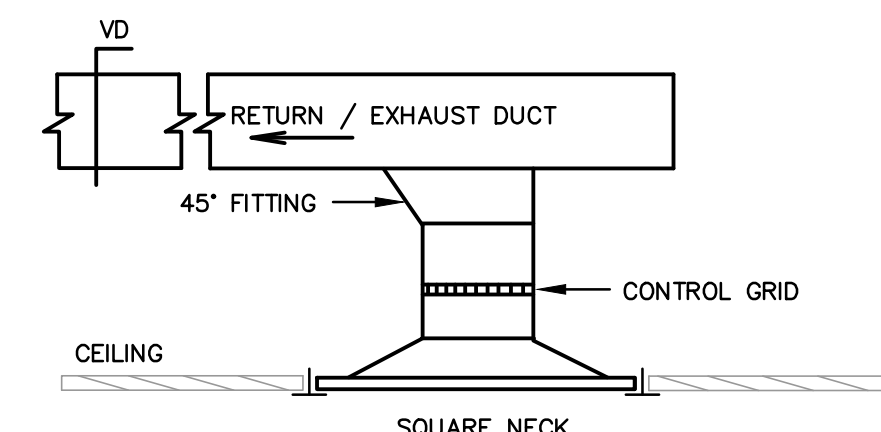


5 ROOFTOP DUCT SUPPORT CURB DETAIL
H6 NOT TO SCALE

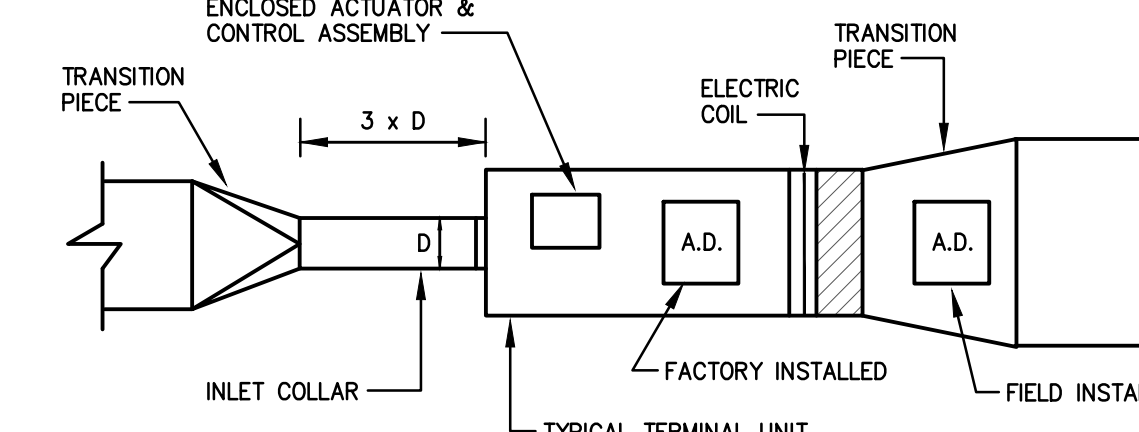
NOTE: COORDINATE CANT STYLE WITH ROOFING SYSTEM AFTER MFR IS APPROVED DURING CONSTRUCTION.



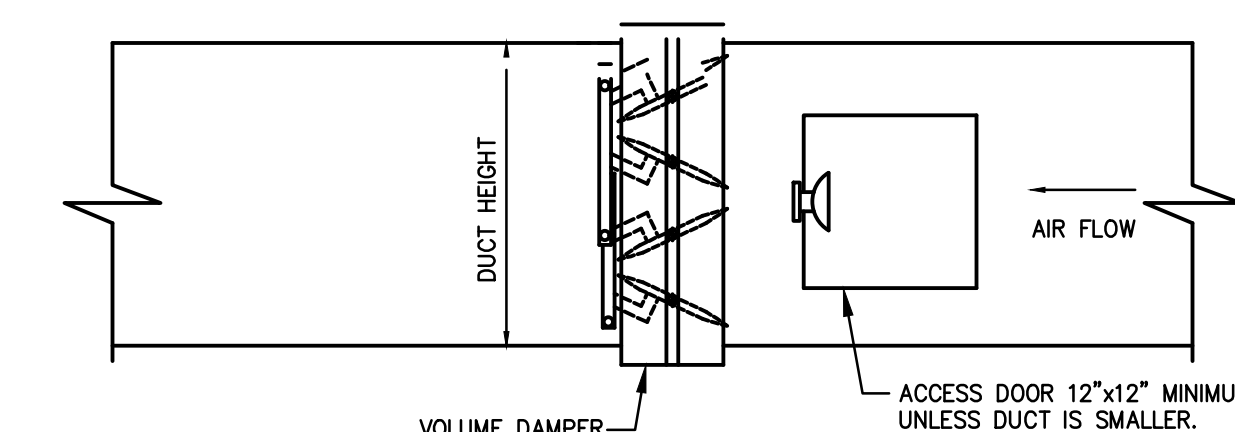
6 INFRARED SEISMIC SUPPORT DETAIL
H6 NOT TO SCALE



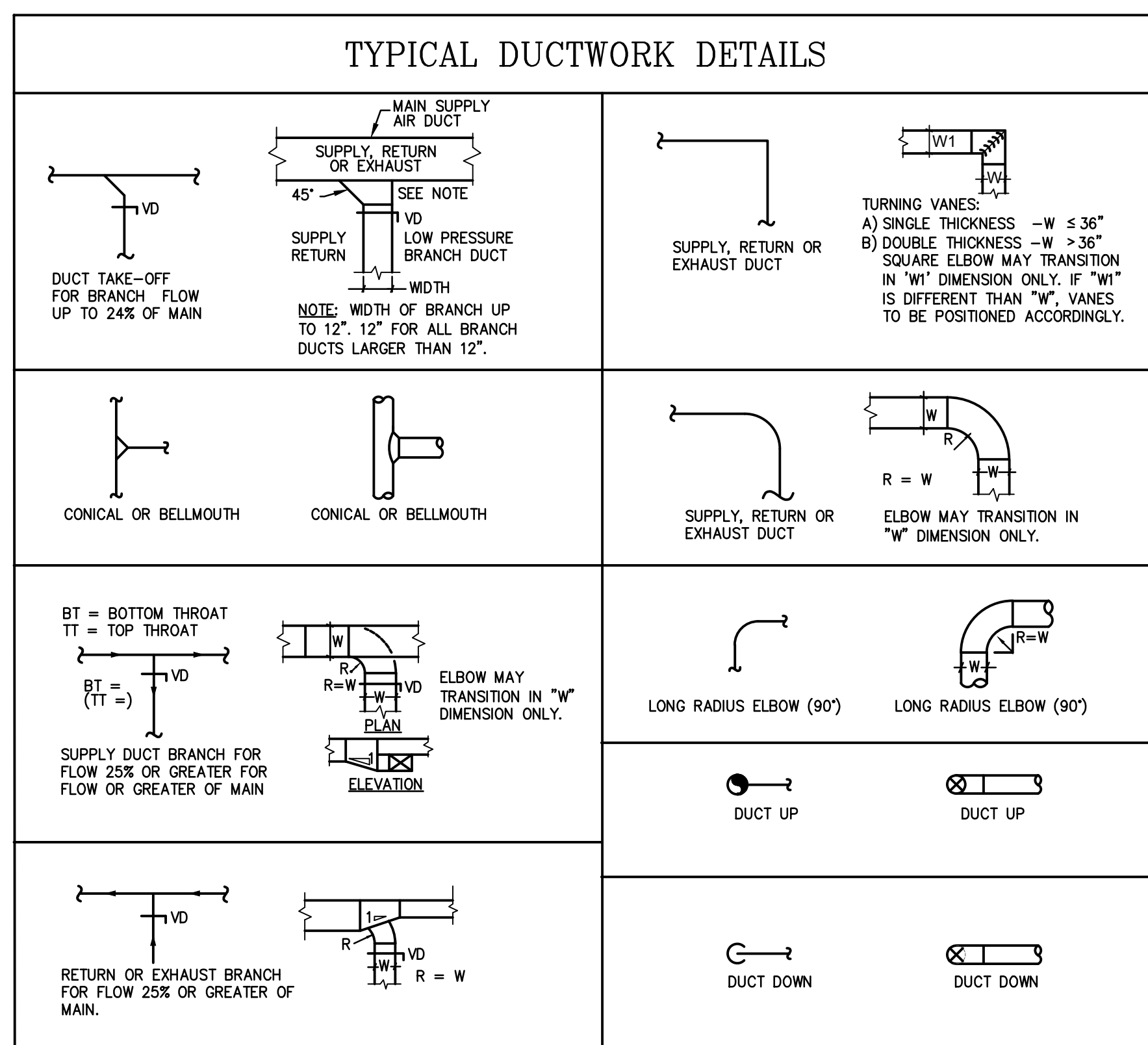
7 CEILING REGISTER TAKE-OFF
H6 NOT TO SCALE



8 TYPICAL VAV BOX ARRANGEMENT
H6 NOT TO SCALE

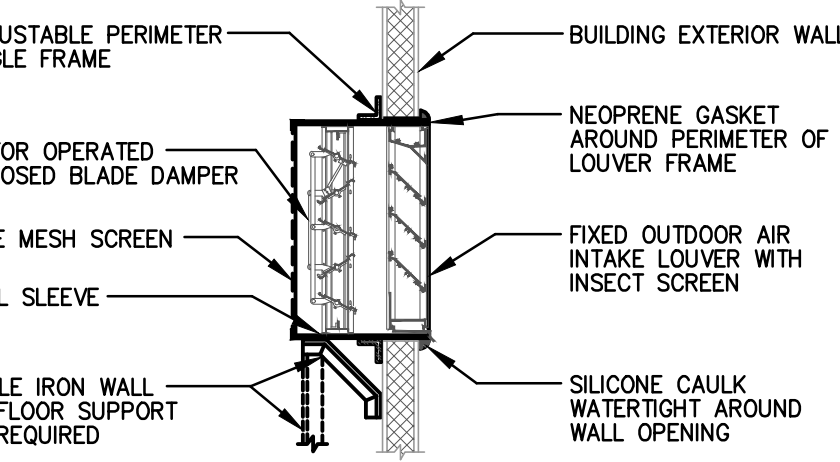


9 VOLUME DAMPER DETAIL
H6 NOT TO SCALE



10 DRAIN CONNECTION AT COOLING COIL DETAIL
H6 NOT TO SCALE

DRAW THRU UNITS: X (INCHES) = MAX. FAN S.P. (N. H20) x 2



11 OUTDOOR AIR INTAKE LOUVER DETAIL
H6 NOT TO SCALE

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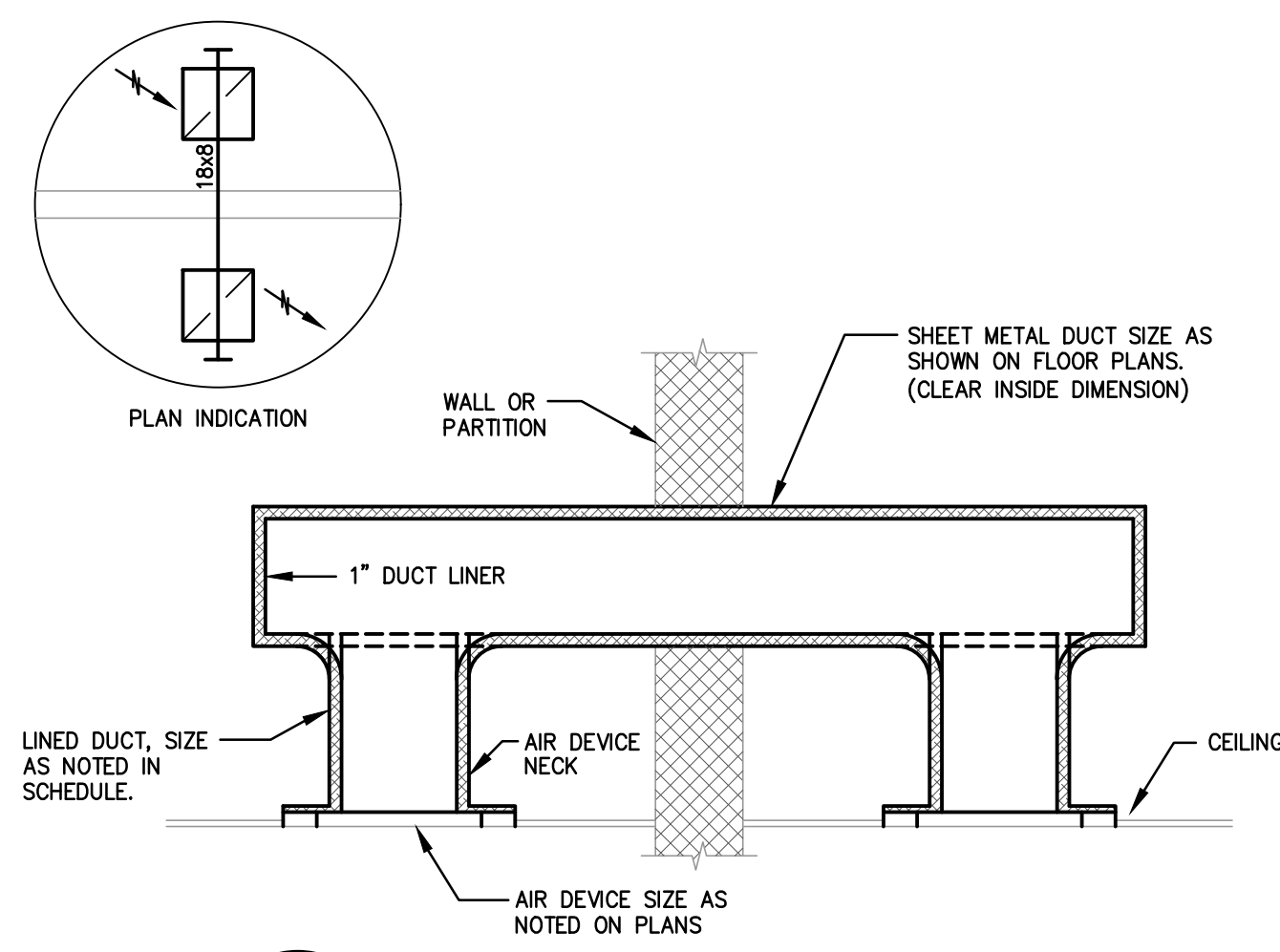
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Frank, Thomas, P.E.
Professional Engineer
NJ 38606

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TITLE: SCHEDULES & DETAILS - HVAC

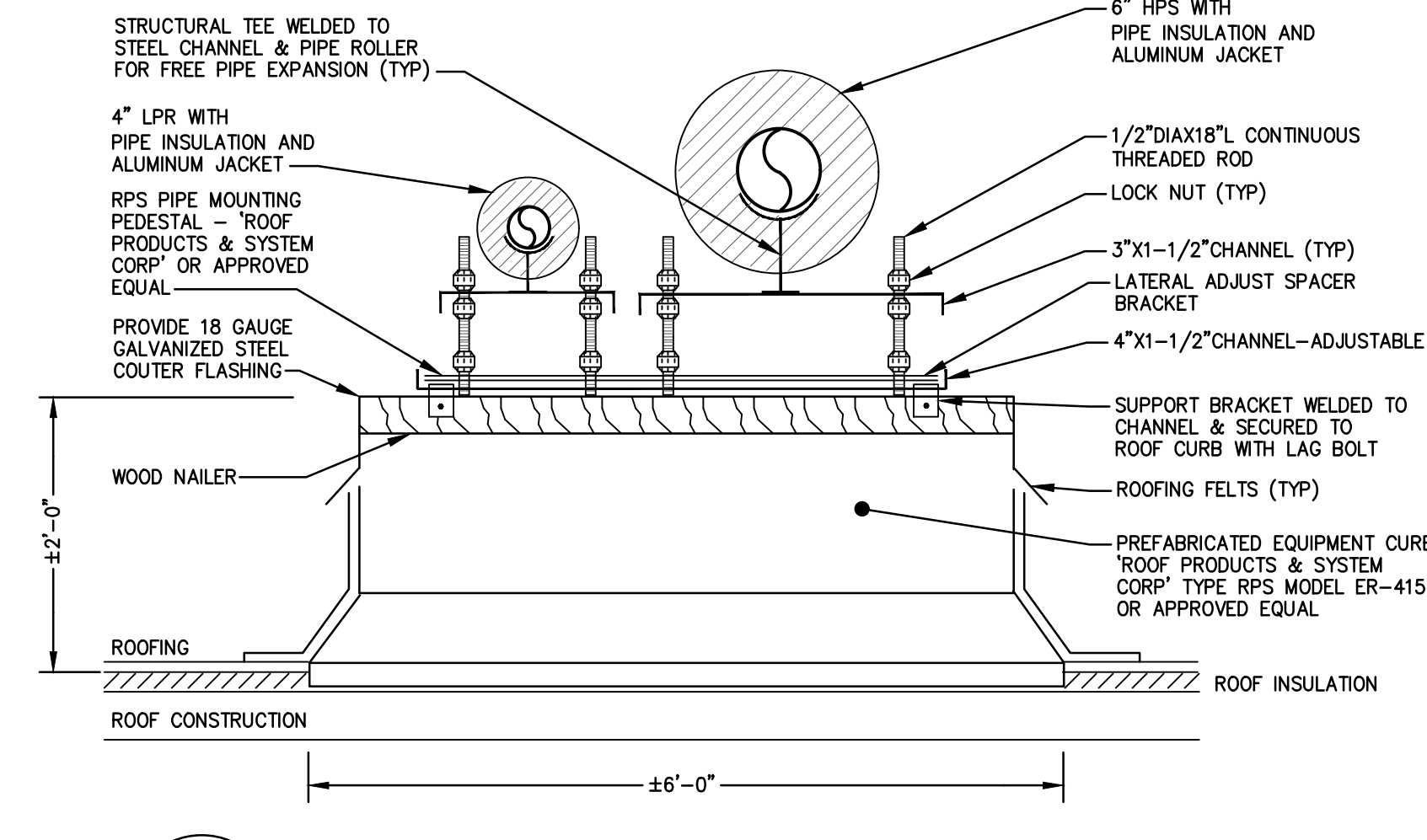
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REVISION DATE:
DRAWN BY:
MB
COMMISSION NO.
5475B

H6
7 OF 9

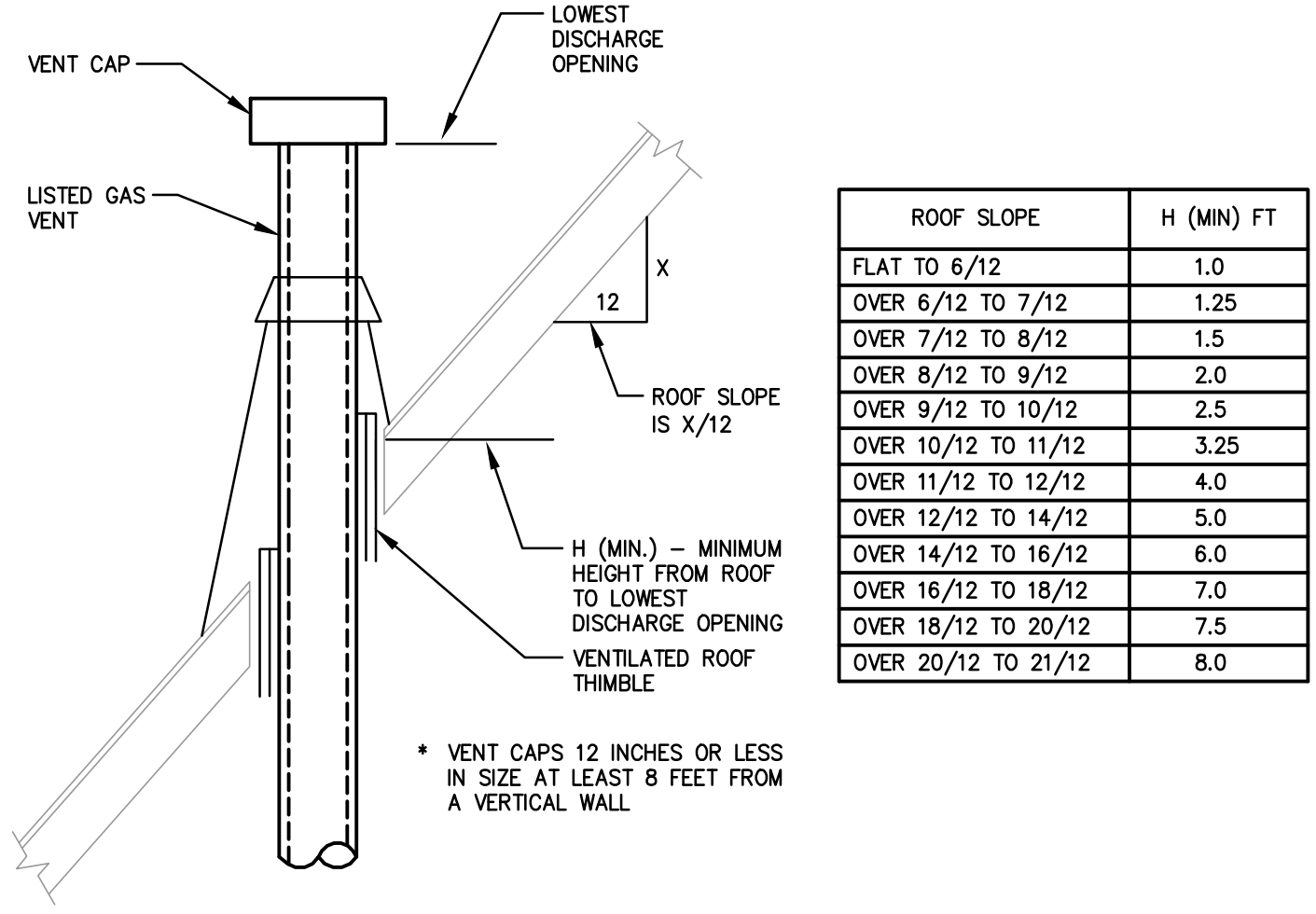
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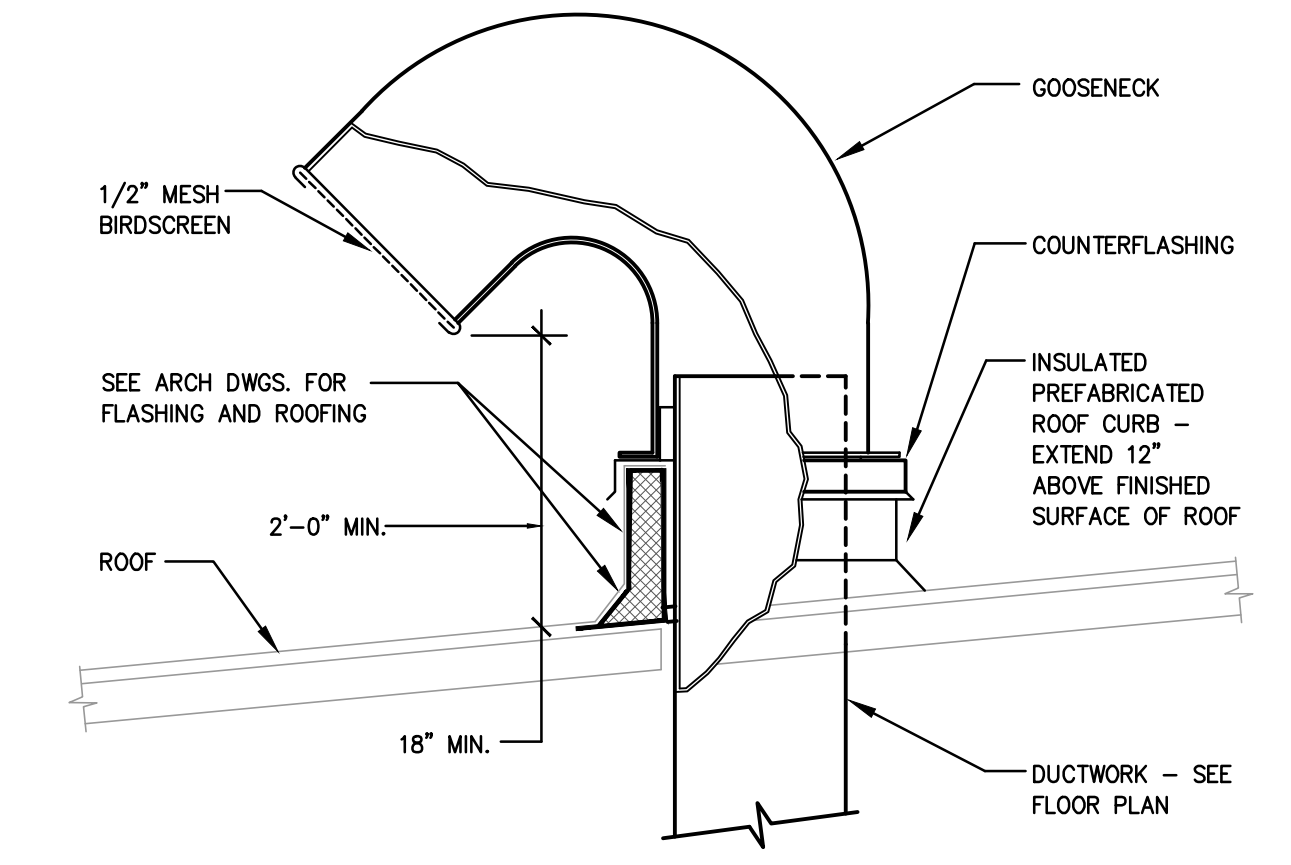
1 TRANSFER DUCT DETAIL
H7 NOT TO SCALE



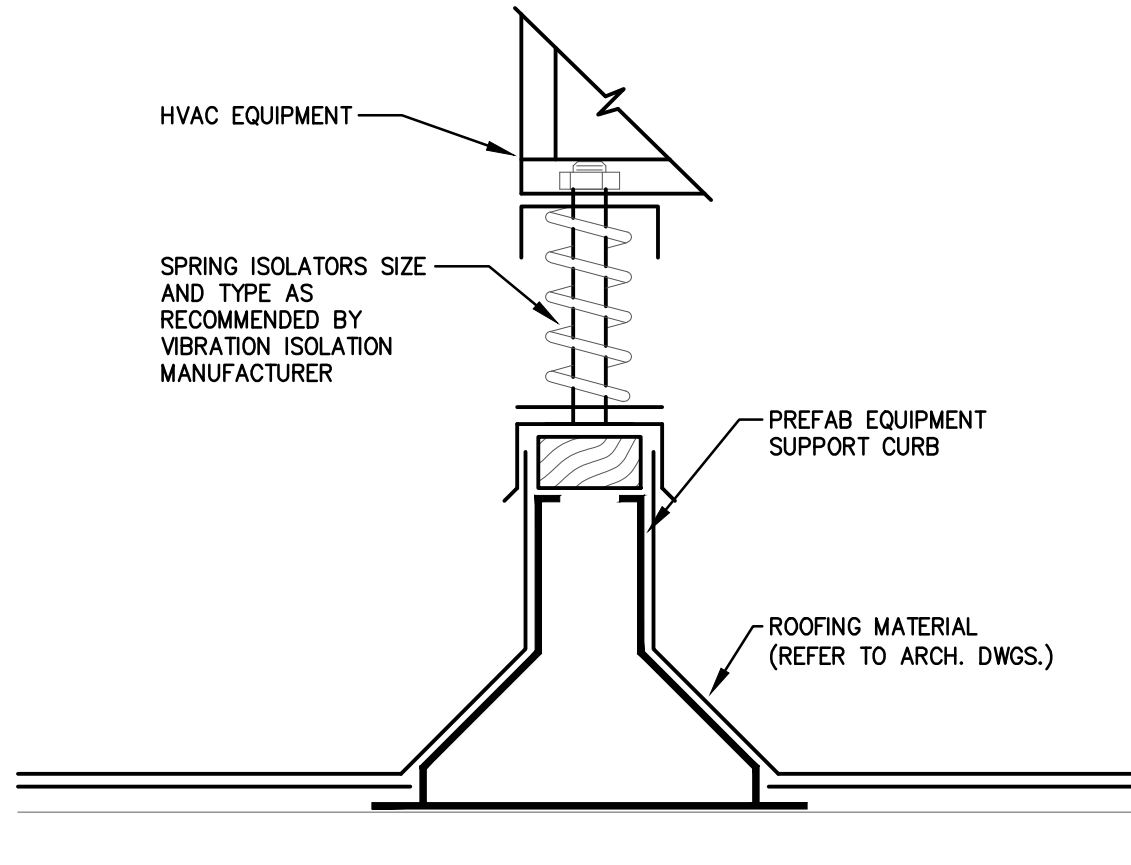
2 DETAIL OF PIPING SUPPORT ON ROOF
H7 NOT TO SCALE



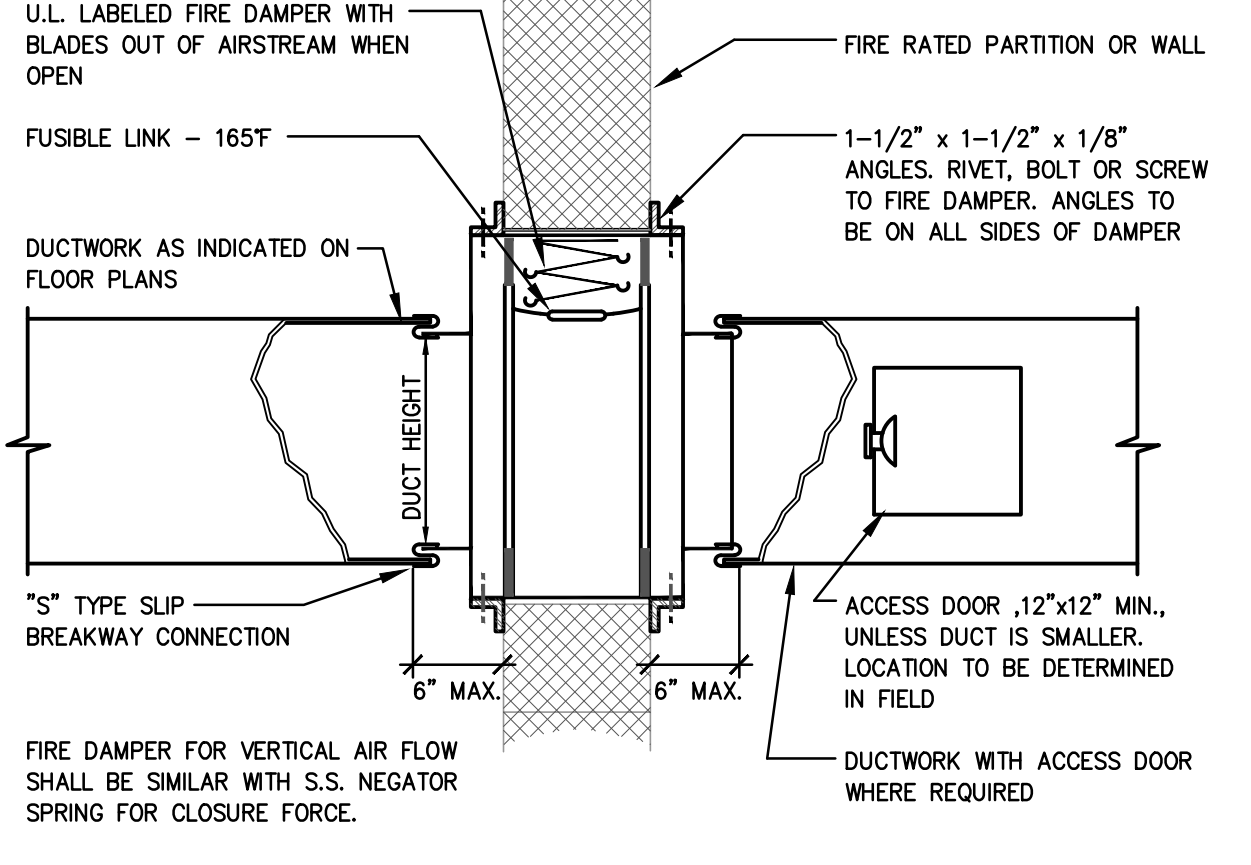
3 GAS VENT TERMINATION DETAIL
(FOR PITCHED ROOF)
NOT TO SCALE



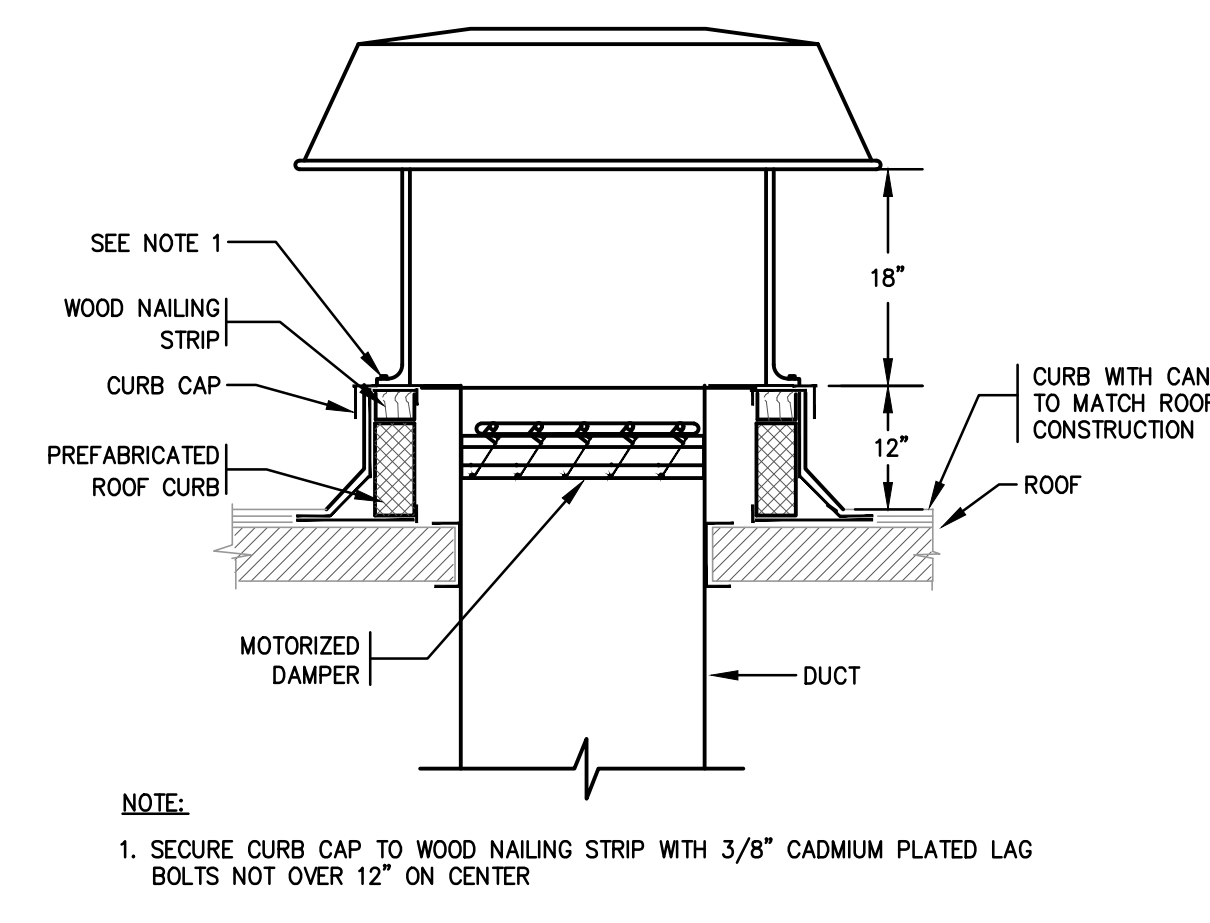
4 GOOSENECK DETAIL (FOR PITCHED ROOF)
H7 NOT TO SCALE



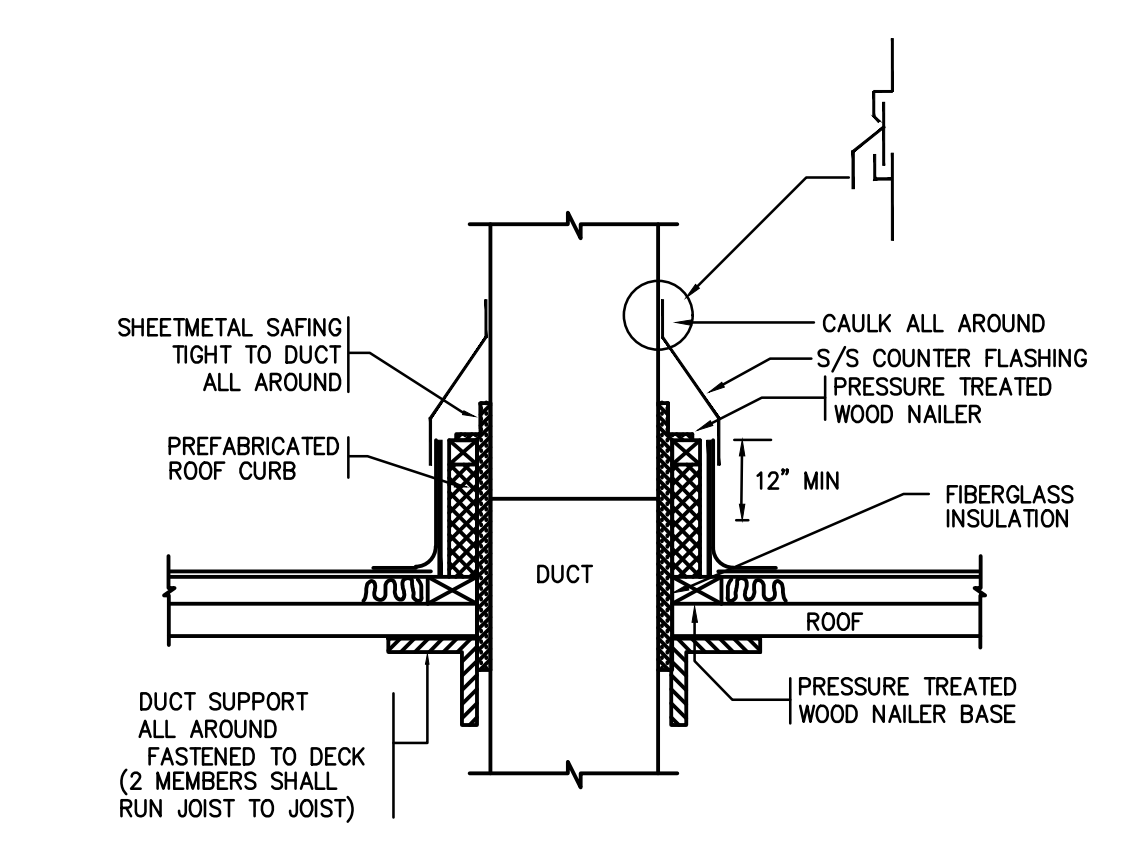
5 EQUIPMENT SUPPORT CURB W/
SPRING ISOLATORS DETAIL
NOT TO SCALE



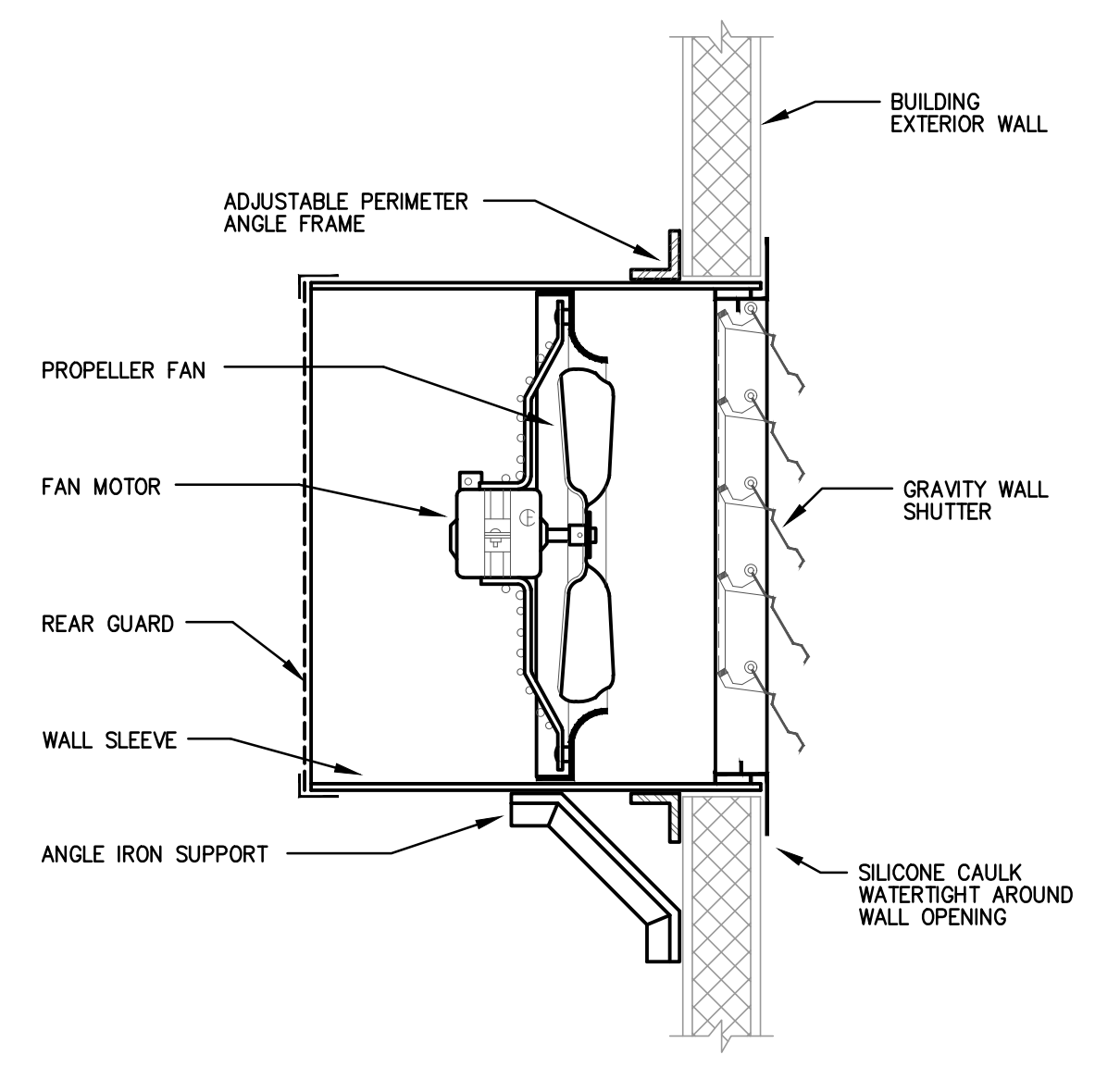
6 FIRE DAMPER DETAIL
H7 NOT TO SCALE



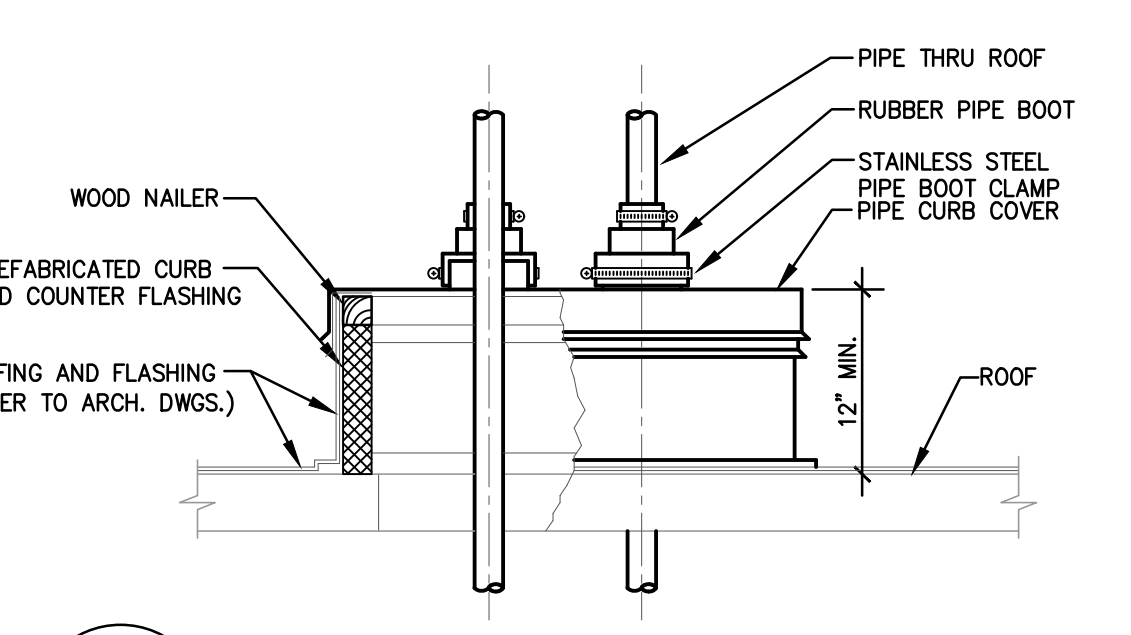
7 TYPICAL ROOF CAP VENT DETAIL
H7 NOT TO SCALE



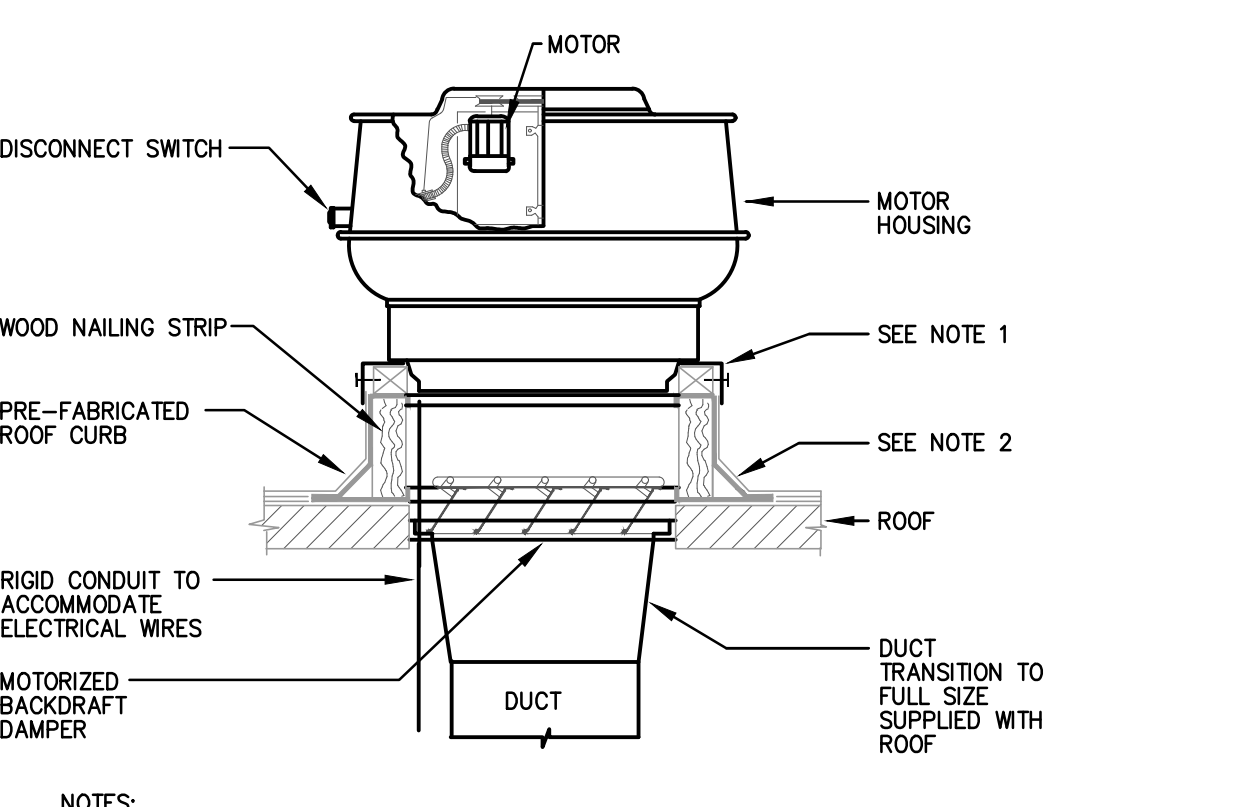
8 DUCT PENETRATION THROUGH
ROOF DETAIL
NOT TO SCALE



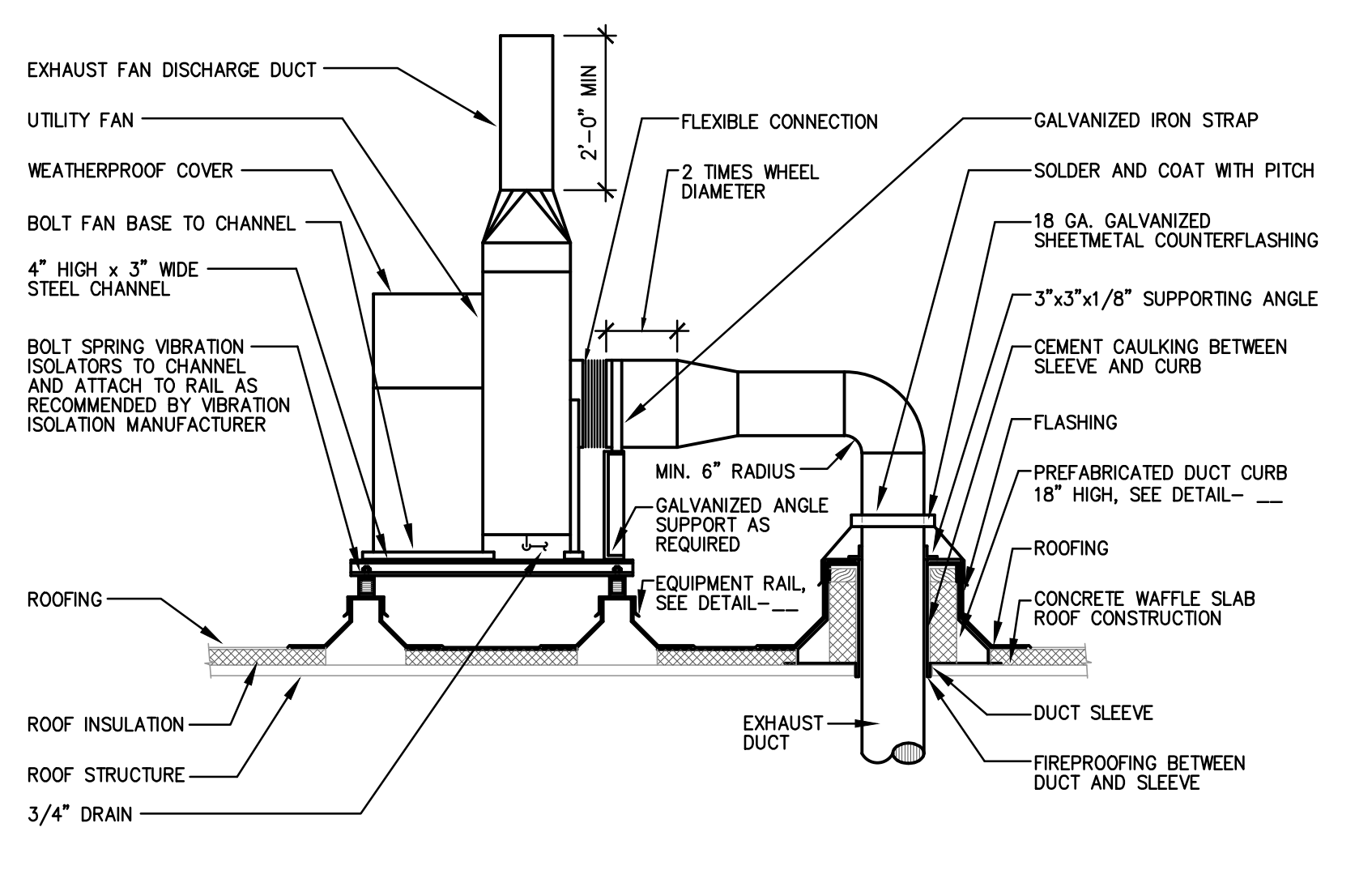
9 PROPELLER FAN DETAIL
H7 NOT TO SCALE



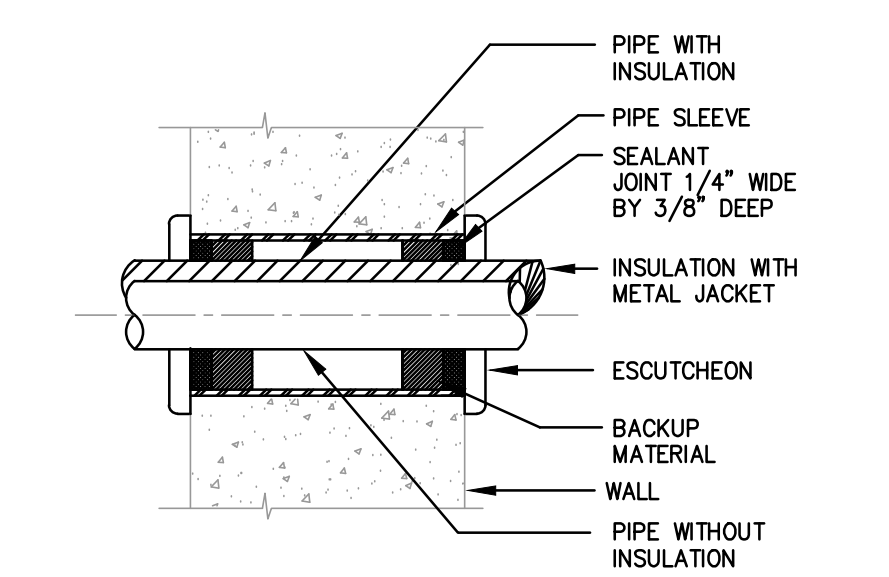
10 TYPICAL PIPE PENETRATION
THROUGH ROOF
NOT TO SCALE



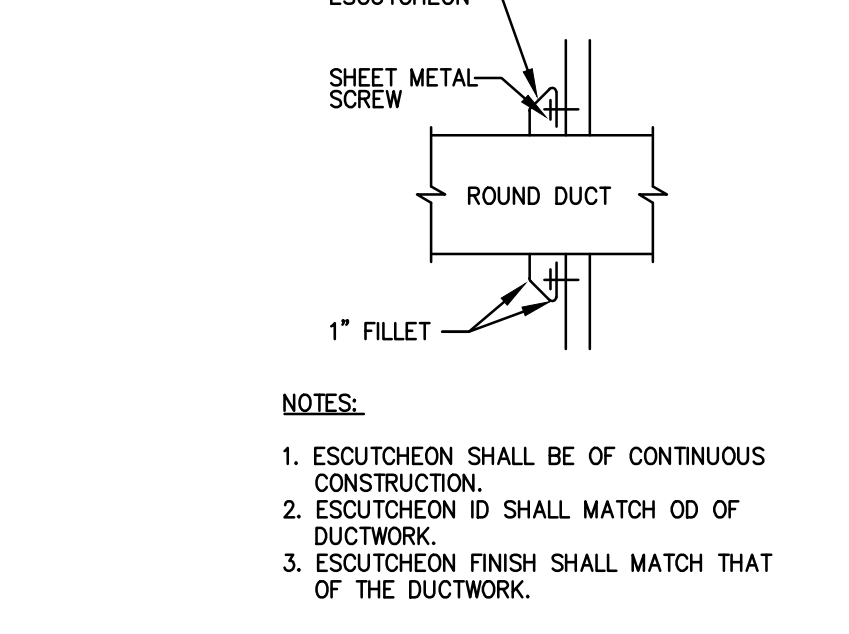
11 ROOF EXHAUST FAN DETAIL
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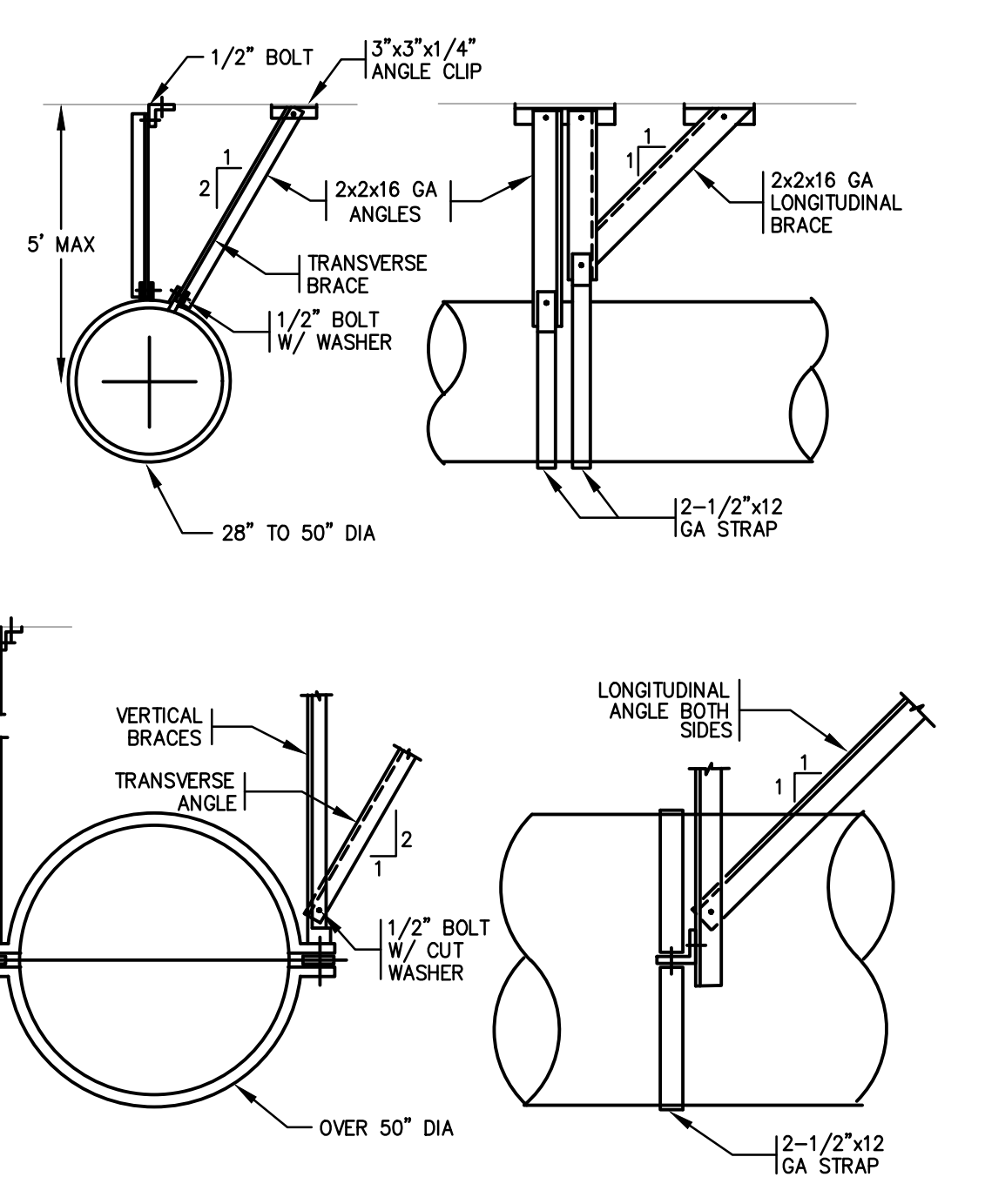
12 ROOF MOUNTED UTILITY FAN AND DUCT DETAIL
NOT TO SCALE



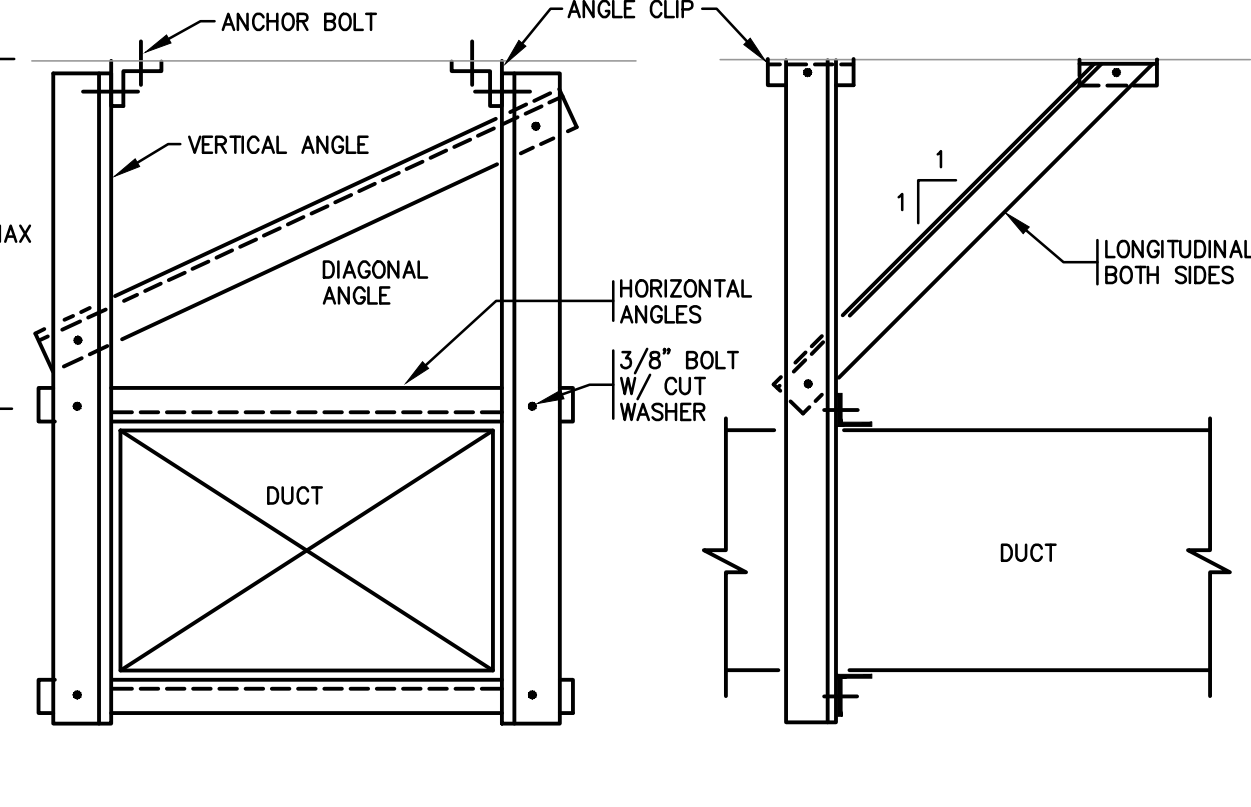
13 PIPE THRU INTERIOR
WALL DETAIL
NOT TO SCALE



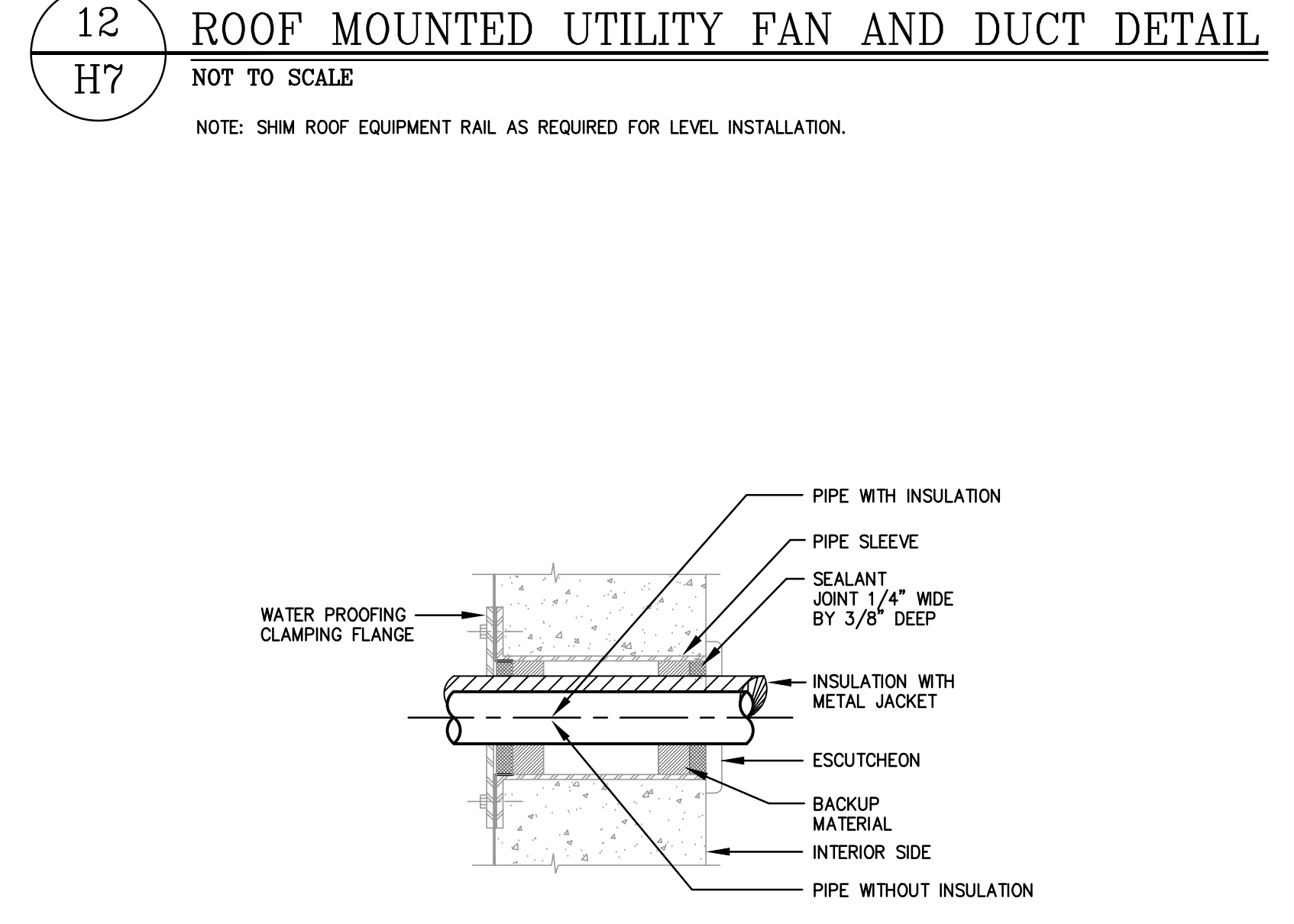
14 DUCT ESCUTCHEON
DETAIL
NOT TO SCALE



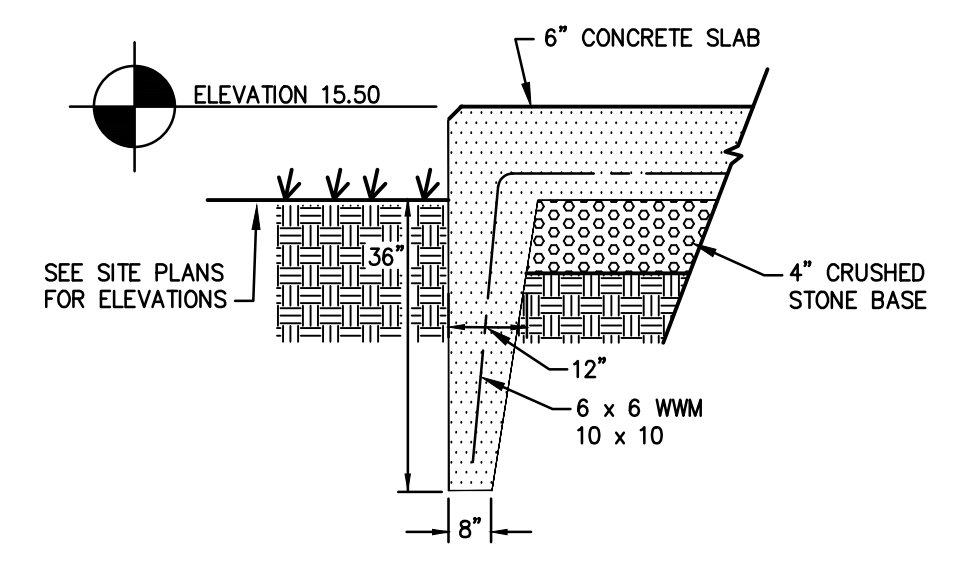
15 SEISMIC BRACING FOR
ROUND/OVAL DUCTS
NOT TO SCALE



16 SEISMIC BRACING FOR
RECTANGULAR DUCTS
NOT TO SCALE



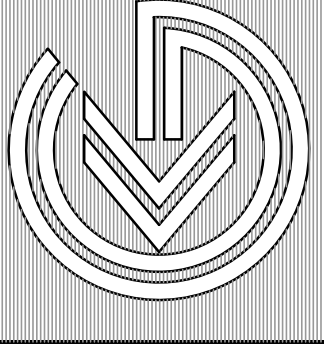
17 PIPE THROUGH EXTERIOR WALL DETAIL
NOT TO SCALE



18 CU PAD CONCRETE SUPPORT
NOT TO SCALE

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Professional Engineer



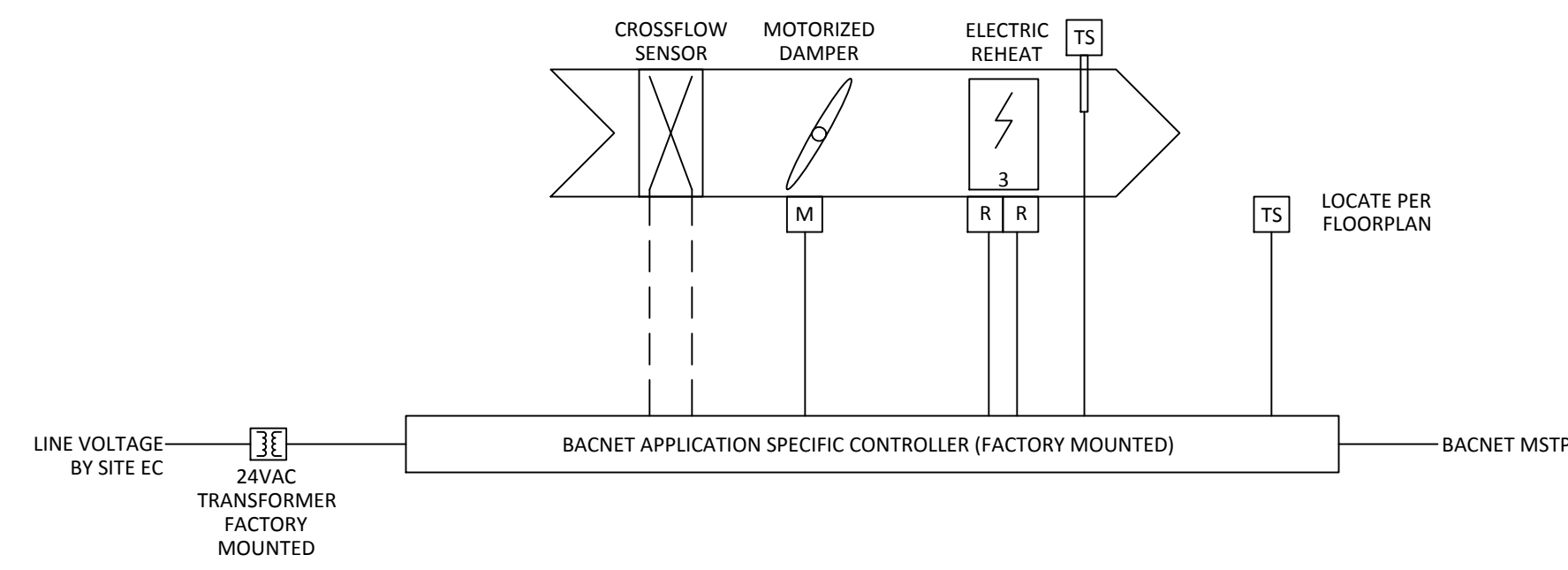
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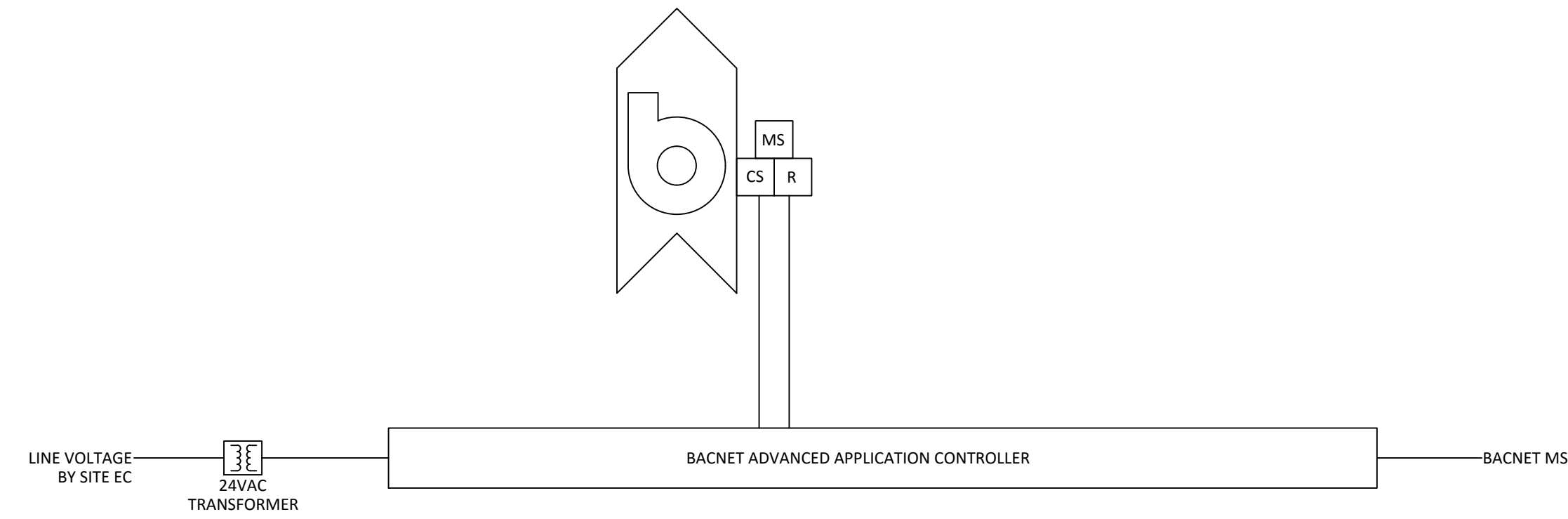
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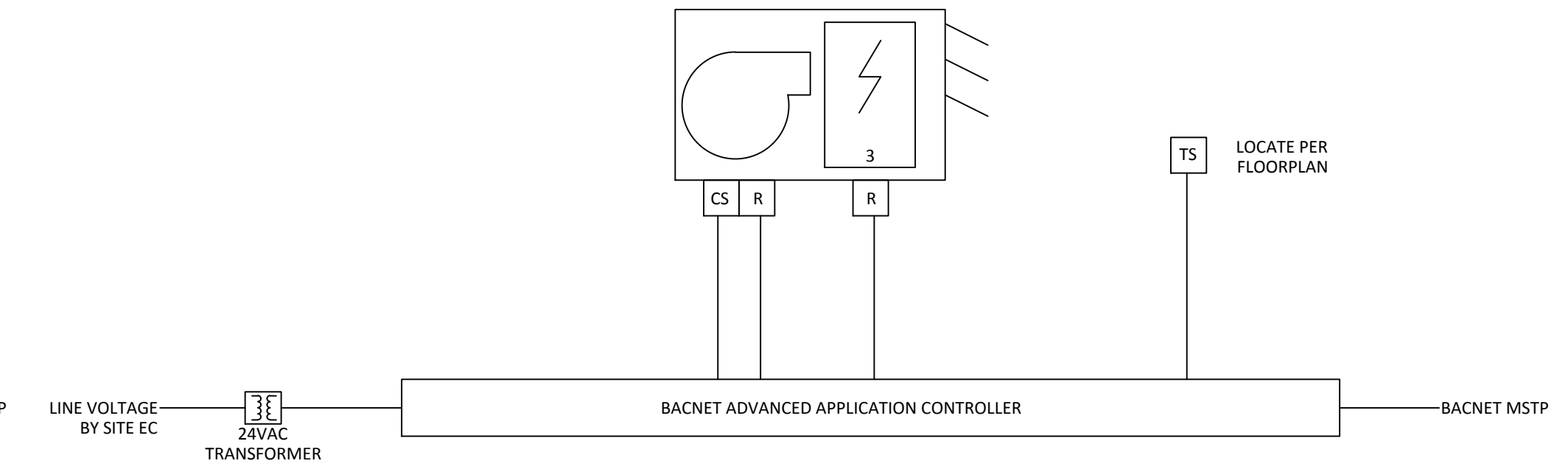
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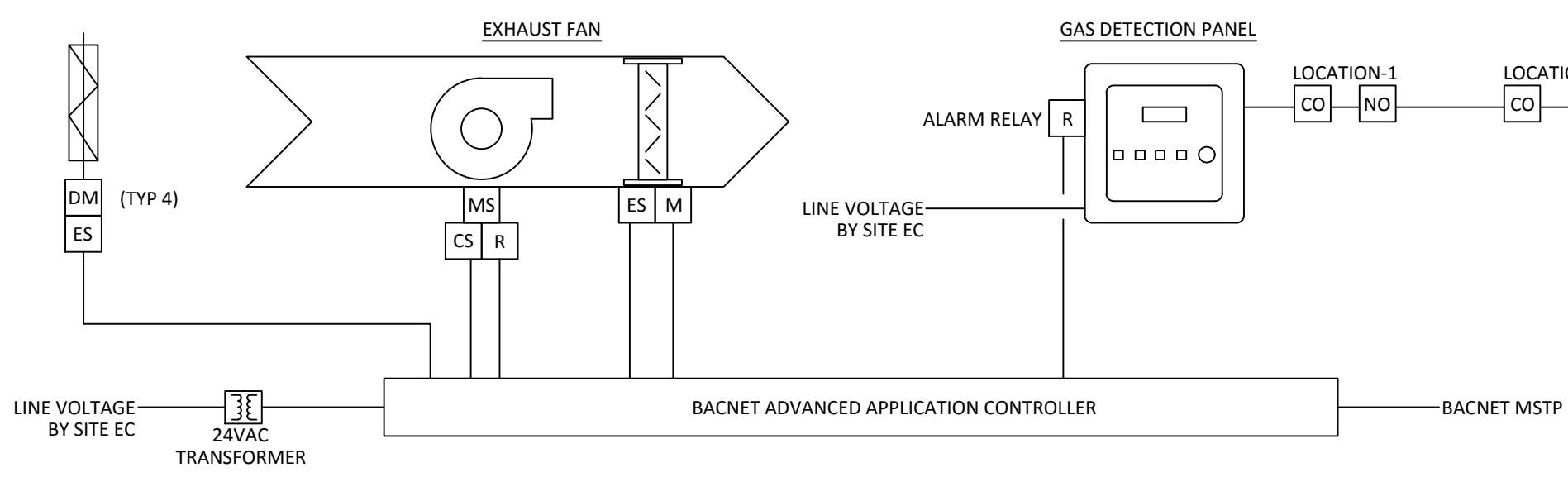
1 TYPICAL VAV UNIT CONTROL DIAGRAM
H8 NOT TO SCALE



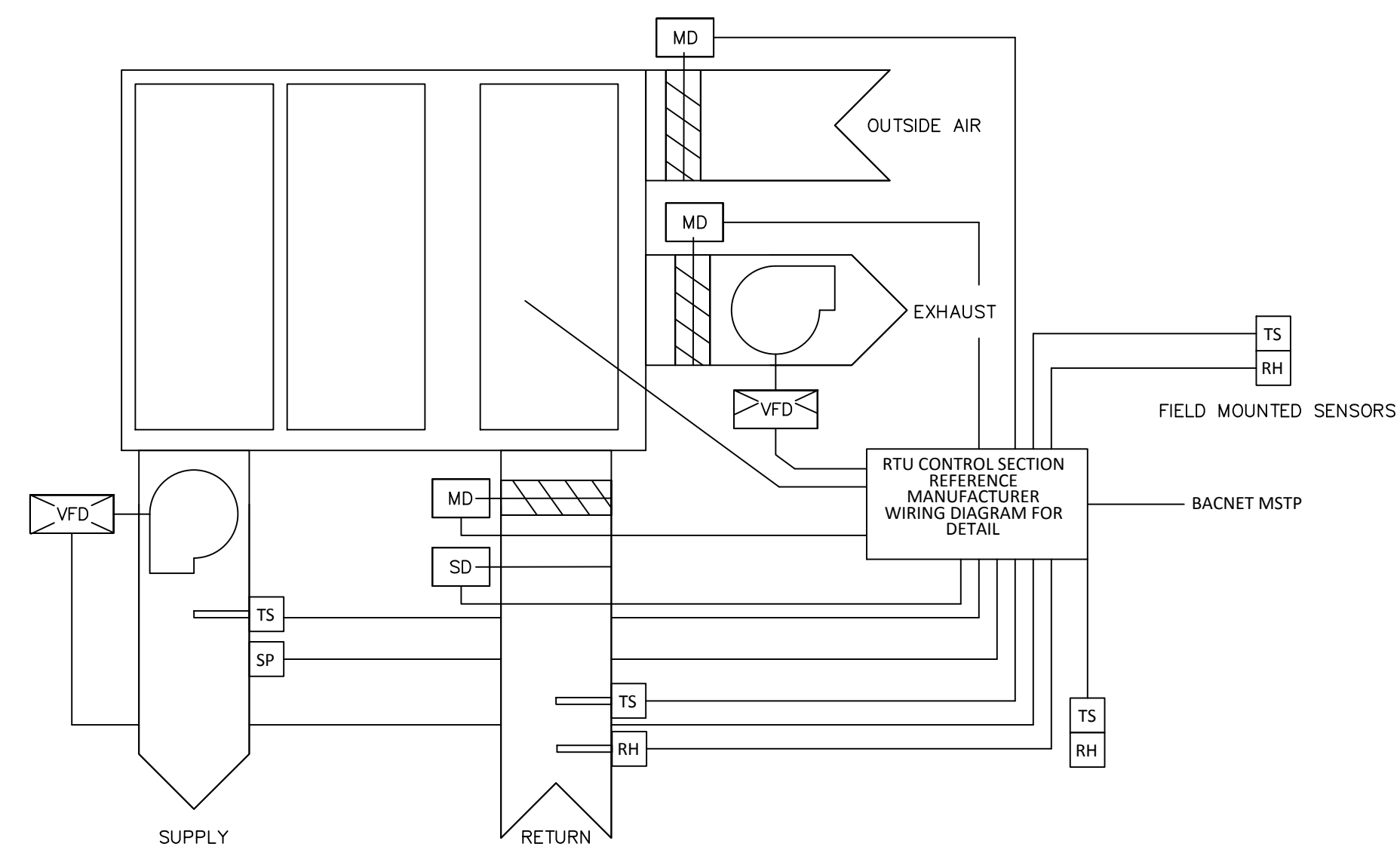
2 TYPICAL EXHAUST FAN CONTROL DIAGRAM
H8 NOT TO SCALE



3 TYPICAL UNIT HEATER CONTROL DIAGRAM
H8 NOT TO SCALE



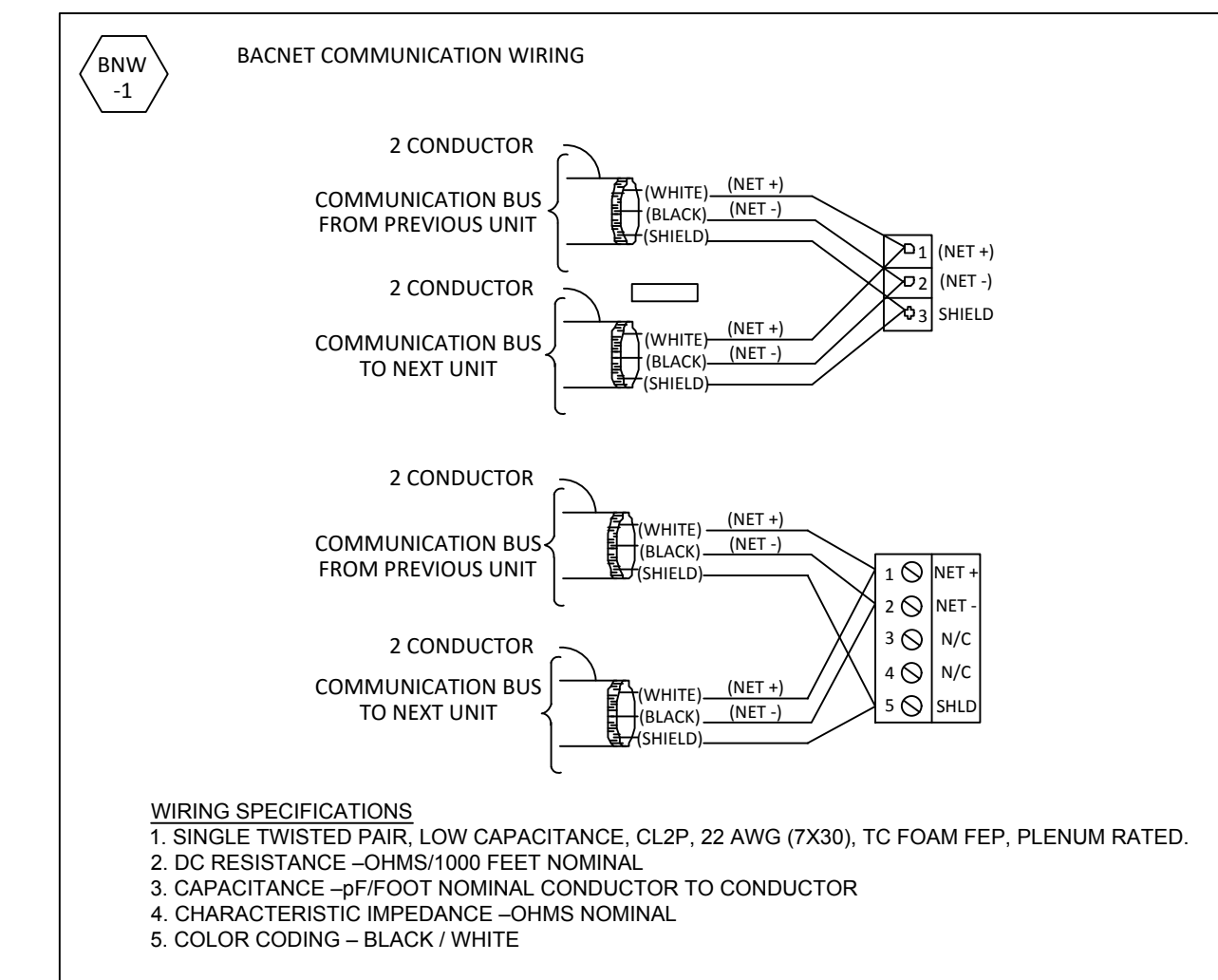
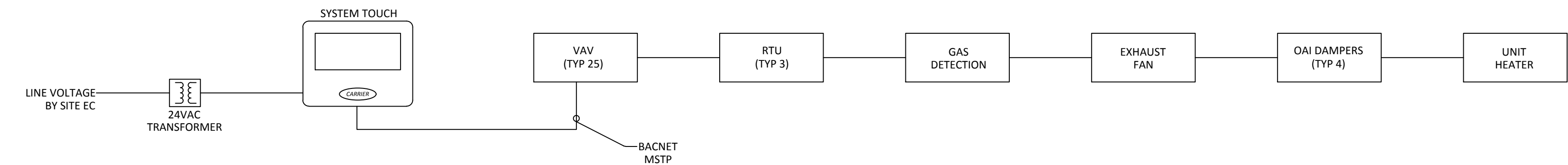
4 CO & NO2 MONITORING STATION CONTROL DIAGRAM
H8 NOT TO SCALE



5 TYPICAL RTU CONTROL DIAGRAM
H8 NOT TO SCALE

ATC LEGEND

CO2	CARBON DIOXIDE SENSOR	MS	MAGNETIC STARTER
CO	CARBON MONOXIDE SENSOR	ND	NITROGEN DIOXIDE SENSOR
CS	CURRENT SWITCH	R	CONTROL RELAY
ES	END SWITCH	SP	STATIC PRESSURE SENSOR
FS	FLOW SWITCH	TS	TEMPERATURE SENSOR (WALL)
M	MOTOR ACTUATOR	RH	RELATIVE HUMIDITY SENSOR (WALL)
DM	DAMPER MOTOR	TS	TEMPERATURE SENSOR (PROBE)
	— CONTROL WIRE	RH	RELATIVE HUMIDITY SENSOR (PROBE)
	- - - PNEUMATIC TUBING		



6 NETWORK ARCHITECTURE
H8 NOT TO SCALE

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
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NJ 38686

RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: CONTROL DIAGRAMS - HVAC

DRAWING DATE:
01 JULY 2020

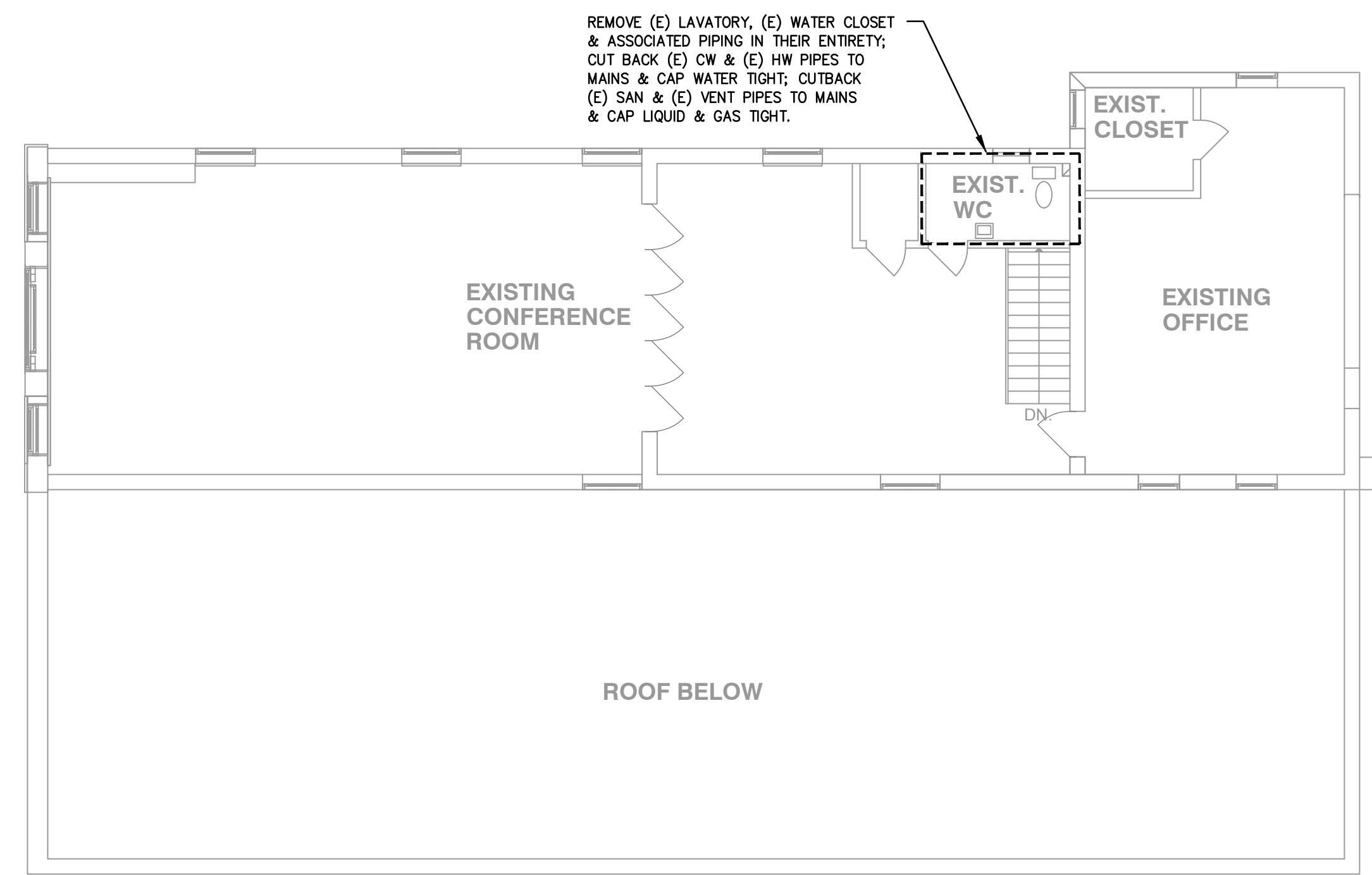
REVISION DATE:

DRAWN BY:
MB
COMMISSION NO:
5475B

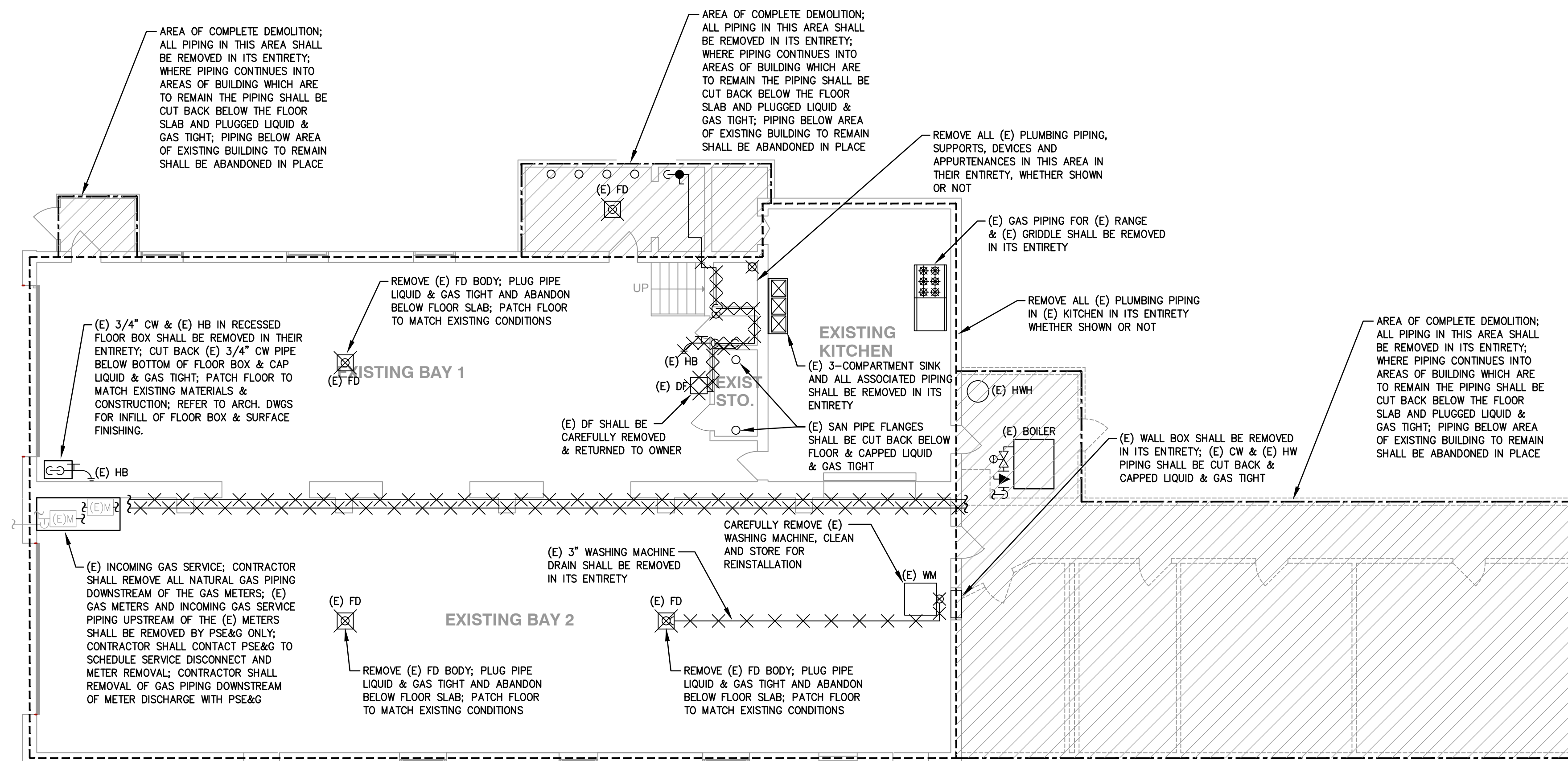
H8

9 OF 9

June 26, 2019 9:42:24 a.m.
Drawing: 2637_H8.DWG



1 SECOND FLOOR PLAN - PLUMBING DEMOLITION
 PD1 SCALE 1/8" = 1'-0"

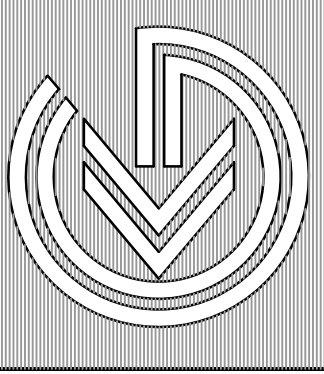


2 FIRST FLOOR PLAN - PLUMBING DEMOLITION
 PD1 SCALE 1/8" = 1'-0"

- NOTES:
1. ALL PLUMBING PIPING ABOVE THE FIRST FLOOR SLAB SHALL BE REMOVED IN ITS ENTIRETY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING REMOVAL OF ANY UNDERGROUND PIPING TO 5'-0" OUTSIDE THE FOUNDATION WALL WITH EXISTING UNDERGROUND UTILITIES. ALL UTILITIES SHALL BE MARKED OUT AS REQUIRED BY N.J.A.C. CALL BEFORE YOU DIG.

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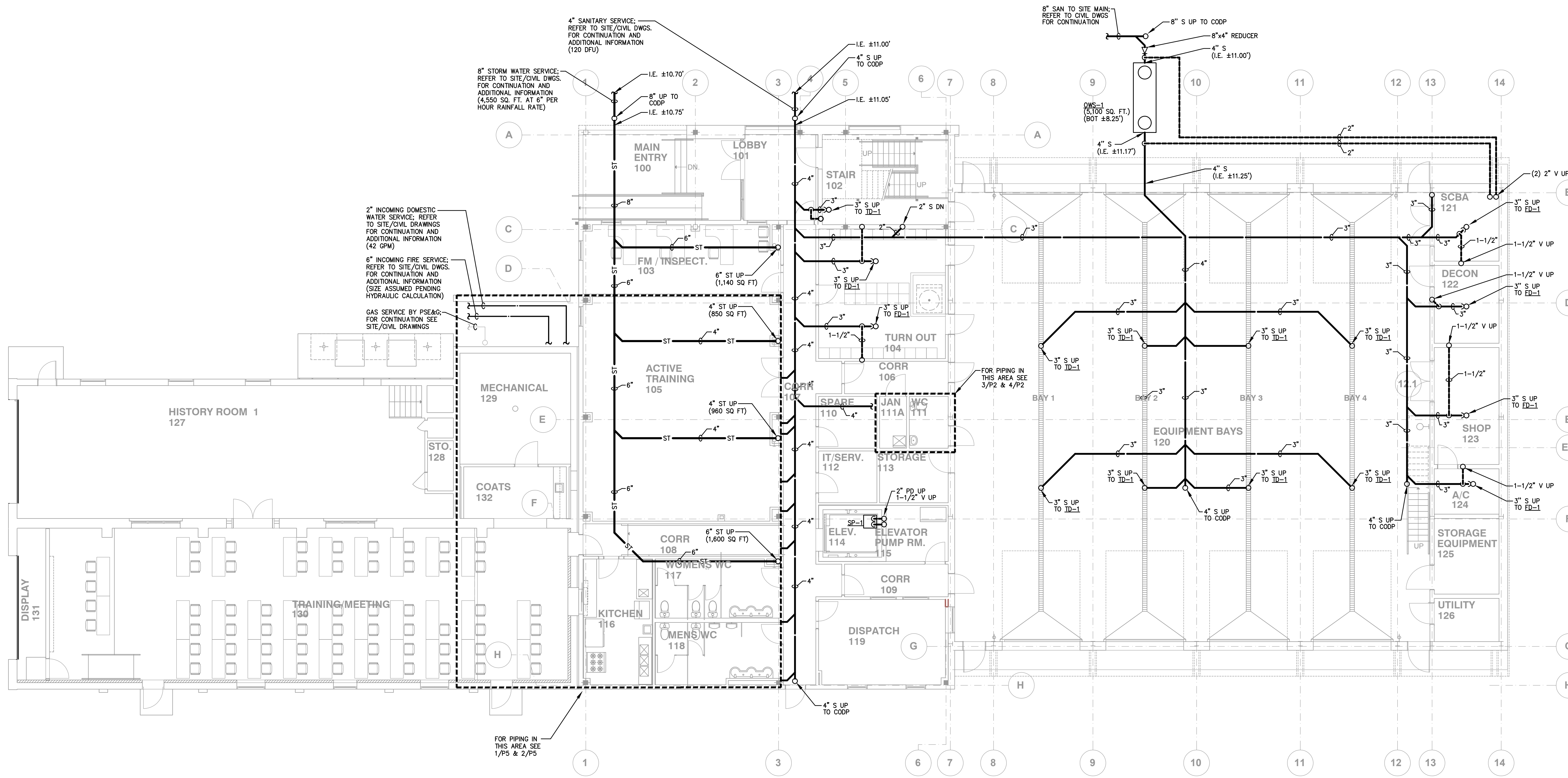
RELIEF FIRE COMPANY NO. 1
 ADDITION / RENOVATION
 BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: FIRST & SECOND FLOOR PLANS - PLUMBING DEMOLITION

DRAWING DATE:
 01 JULY 2020

REVISION DATE:

DRAWN BY:
ACL
 COMMISSION NO:
5475B

PD1

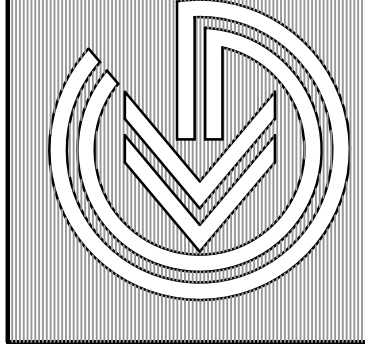


1
P1 **UNDERSLAB PLAN - PLUMBING**
SCALE 1/8" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 4. PIPES SHALL BE PITCHED IN ACCORDANCE WITH NATIONAL STANDARD PLUMBING CODE (2018), NEW JERSEY EDITION.

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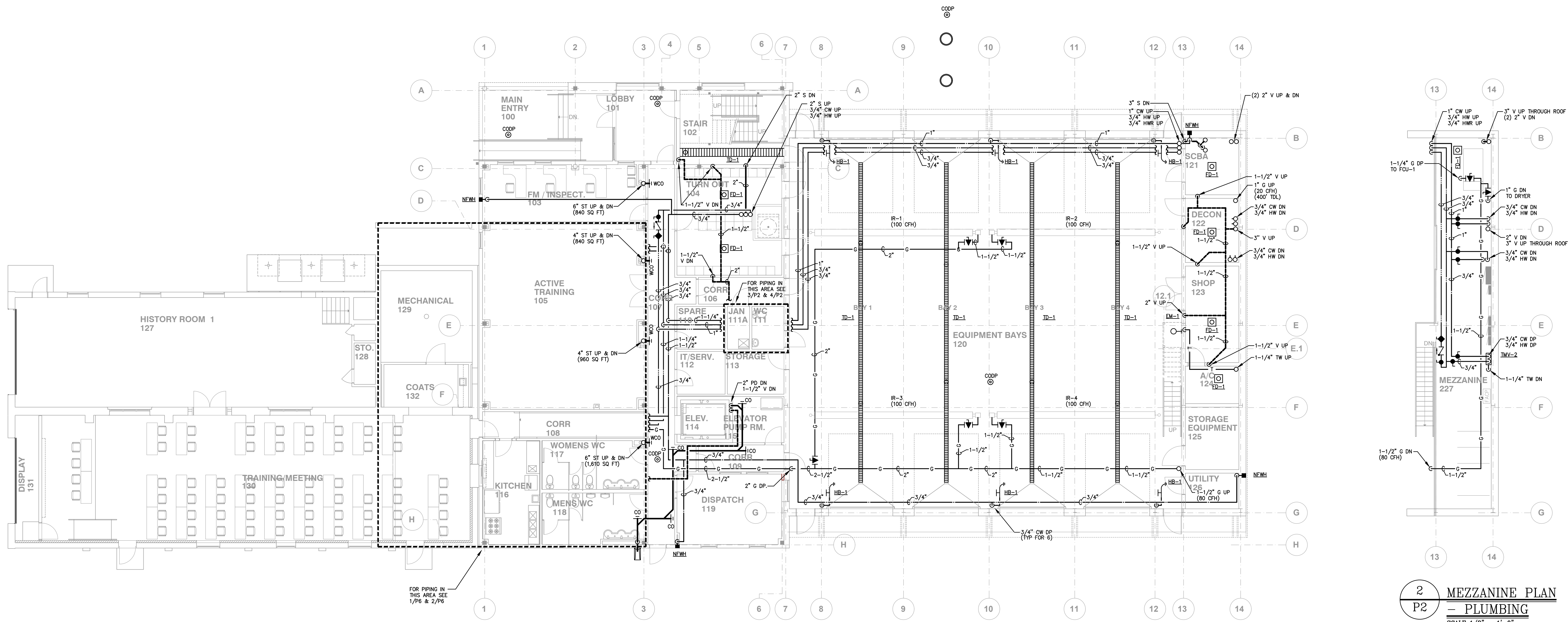
RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: UNDERSLAB PLAN - PLUMBING

DRAWING DATE:
01 JULY 2020

REVISION DATE:

DRAWN BY:
ACL
COMMISSION NO:
5475B

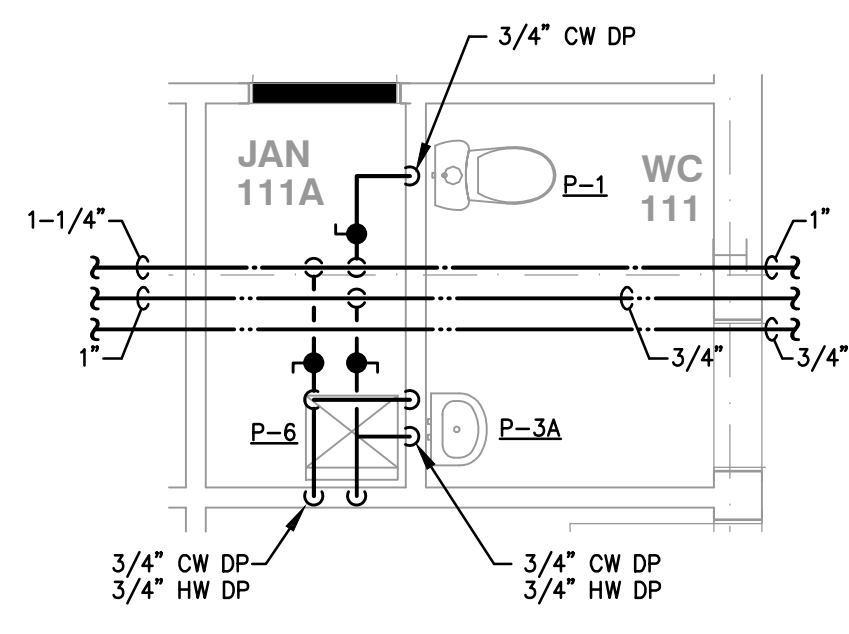
P1



1
P2 **FIRST FLOOR PLAN - PLUMBING**
SCALE 1/8" = 1'-0"

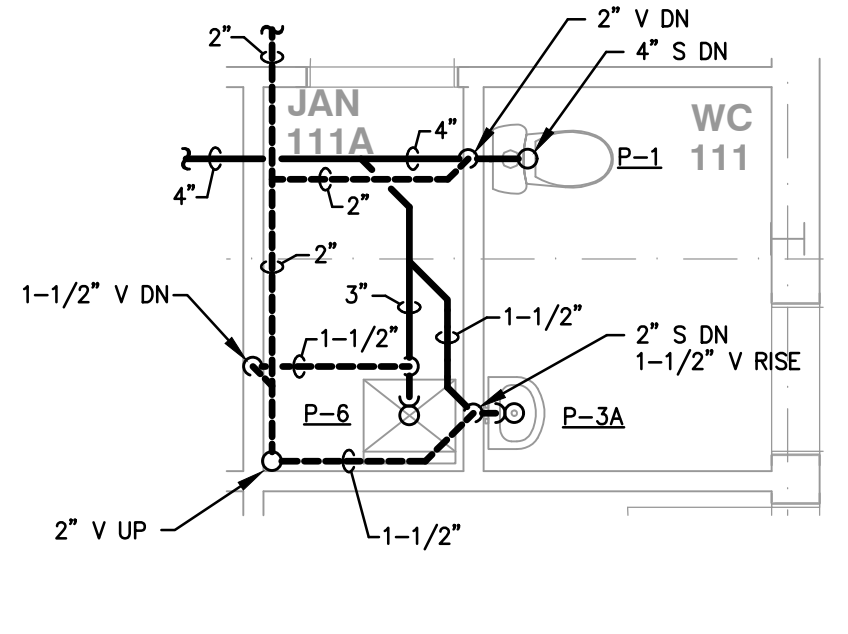
- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.

3
P2 **JC 111A & WC 111 - DOMESTIC WATER - PLUMBING**
SCALE 1/4" = 1'-0"

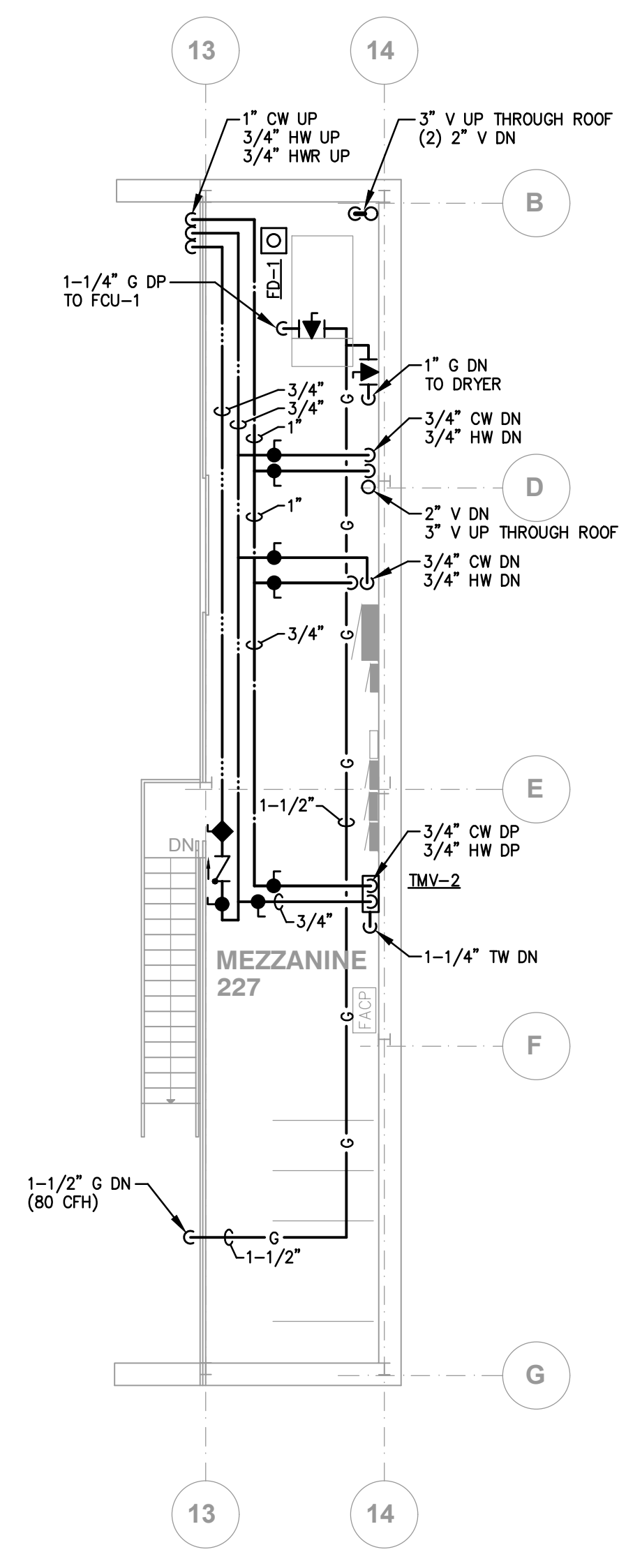


- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.

4
P2 **JC 111A & WC 111 - SANITARY & VENT - PLUMBING**
SCALE 1/4" = 1'-0"



- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.



2
P2 **MEZZANINE PLAN - PLUMBING**
SCALE 1/8" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.

August 26, 2020, 3:16:55 p.m.
Drawing: 2027 PLUMB

RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
MOUNT HOLLY, NEW JERSEY

TITLE: FIRST FLOOR PLAN & PARTIAL PLANS - PLUMBING

DRAWING DATE: 01 JULY 2020
REVISION DATE:

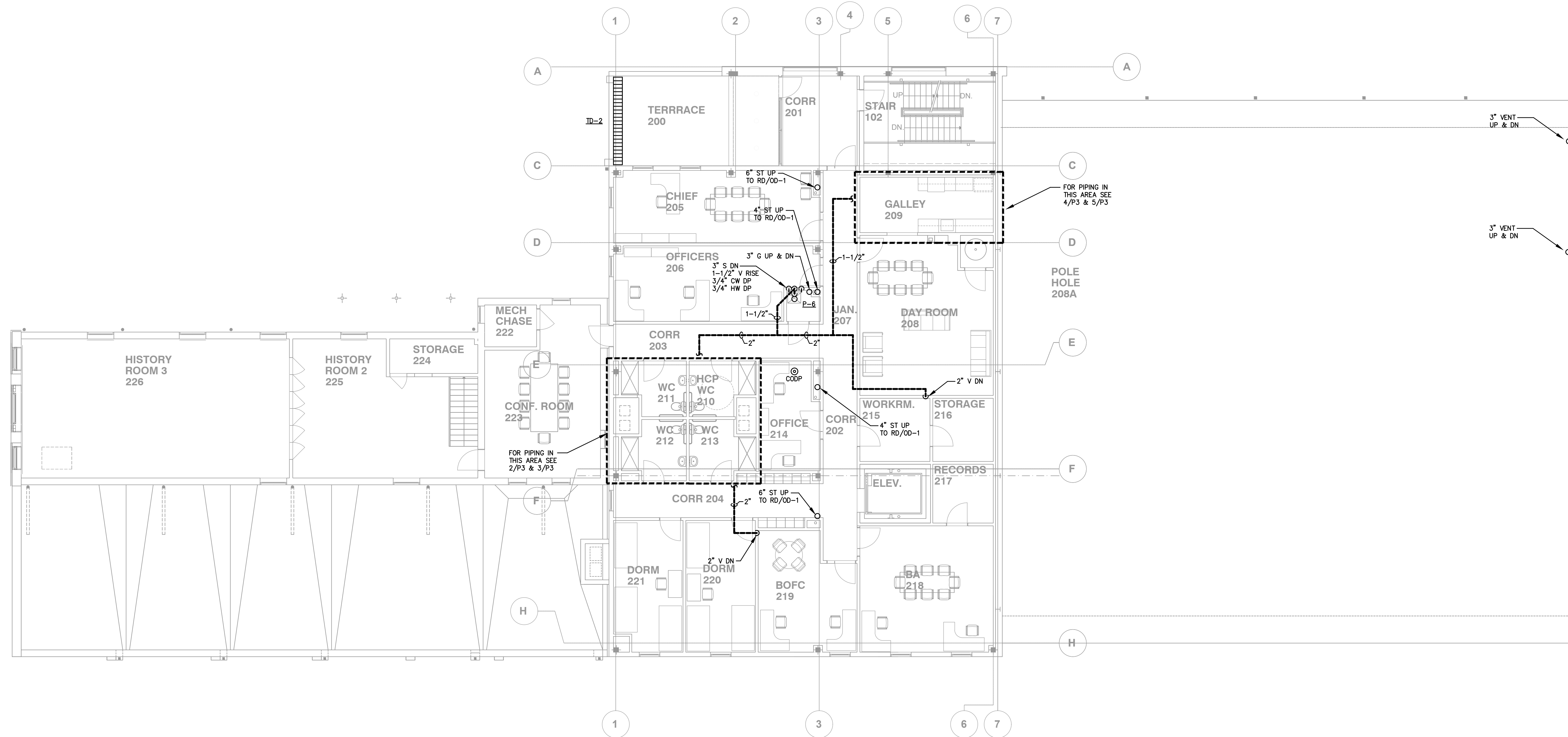
DRAWN BY: **ACL**
COMMISSION NO: **5475B**

P2

3 OF 10

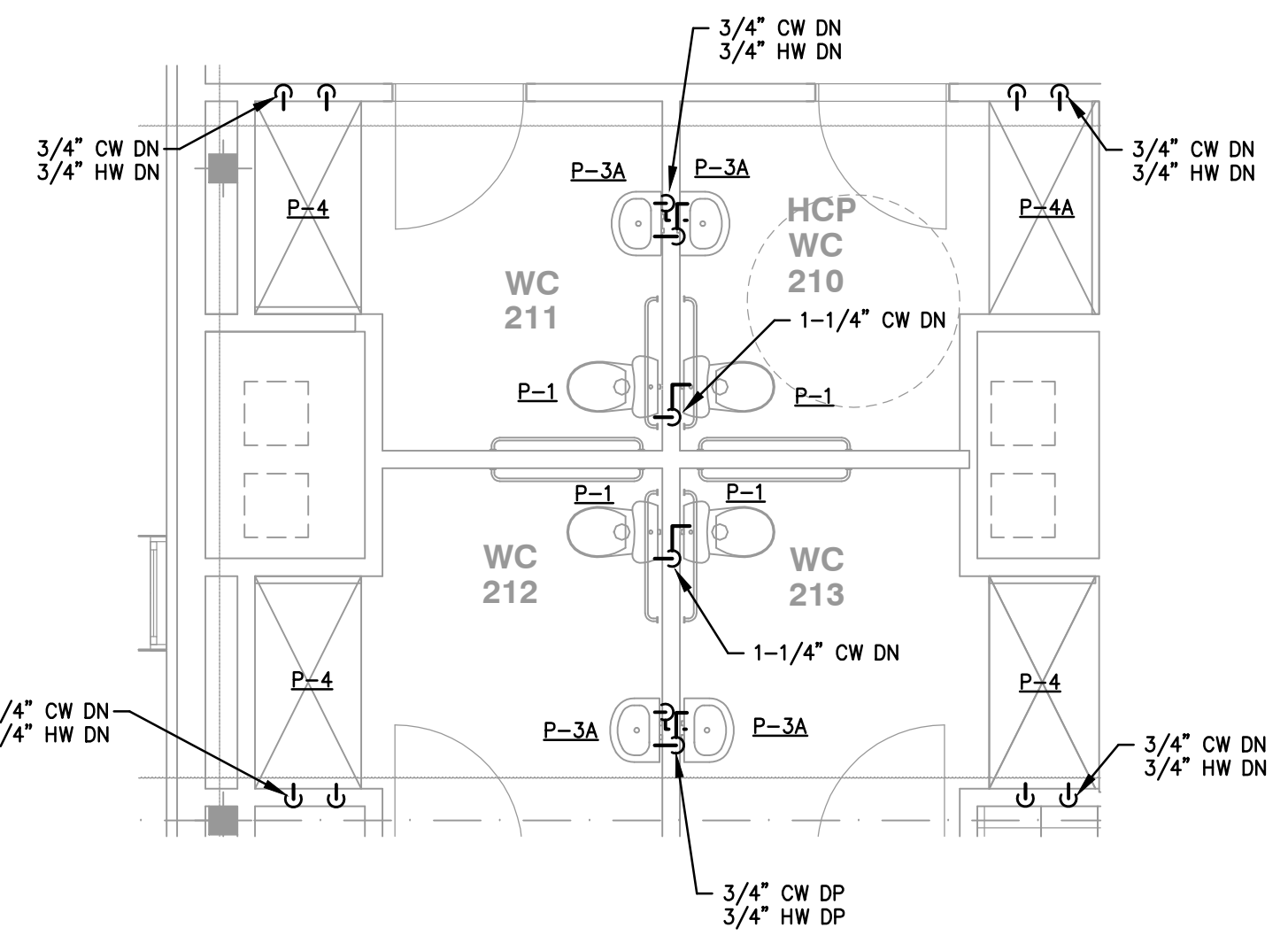
REGAN YOUNG ENGLAND BUTERA
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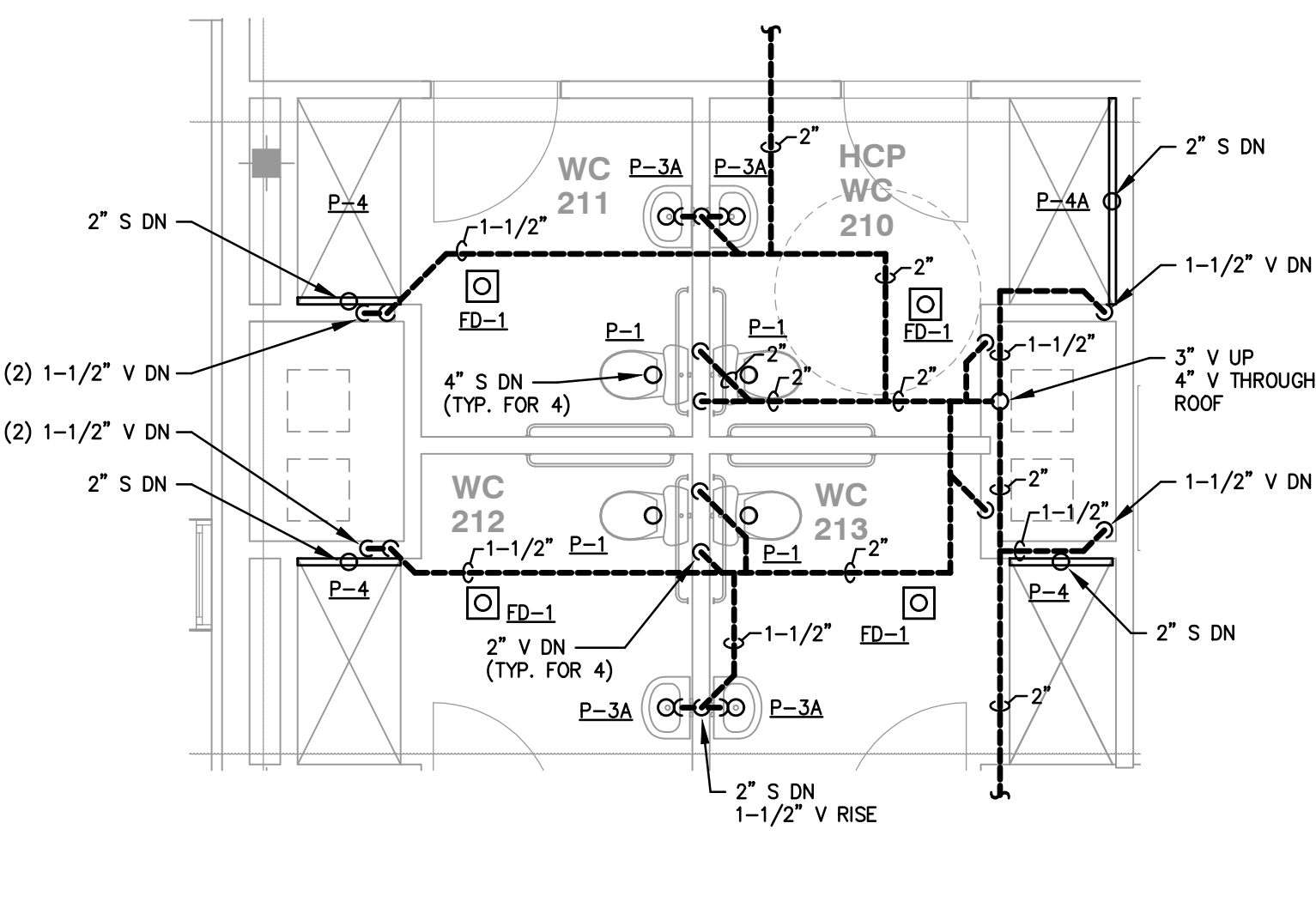
1 SECOND FLOOR PLAN - PLUMBING
 SCALE 1/8" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.



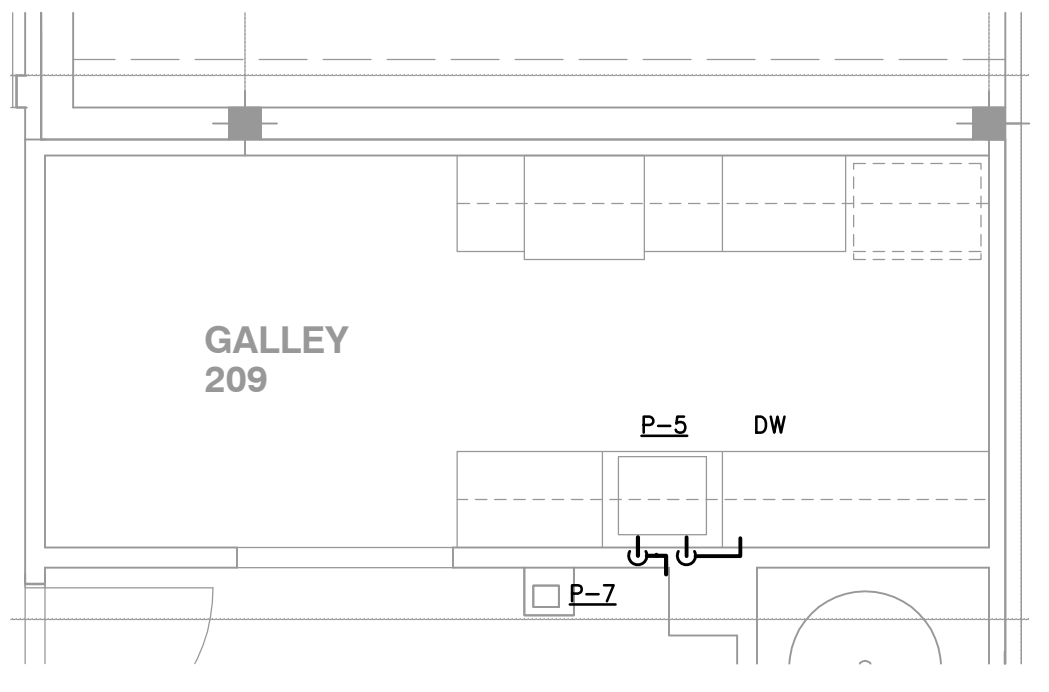
2 WC 210, 211, 212, & 213 - DOMESTIC WATER - PLUMBING
 SCALE 1/4" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.



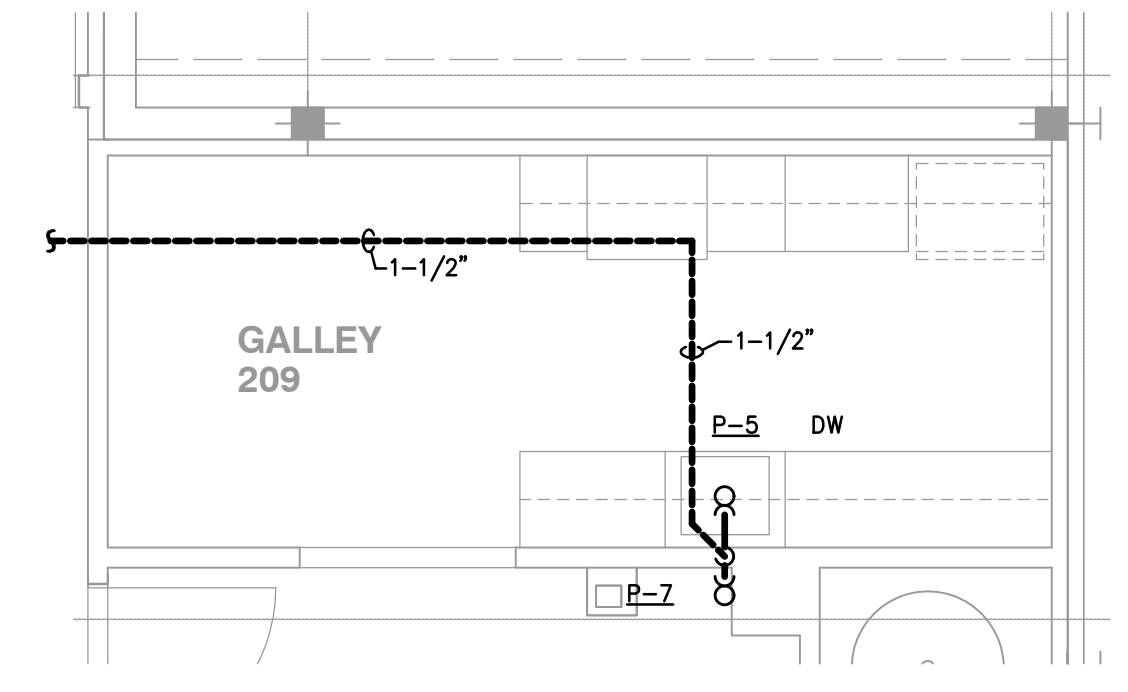
3 WC 210, 211, 212, & 213 - SANITARY & VENT - PLUMBING
 SCALE 1/4" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.



4 GALLEY 209 - DOMESTIC WATER - PLUMBING
 SCALE 1/4" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.



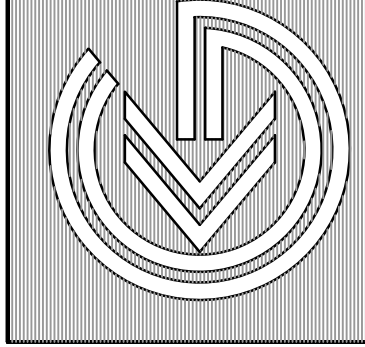
5 GALLEY 209 - SANITARY & VENT - PLUMBING
 SCALE 1/4" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.

August 26, 2020, 3:17:22 p.m.
 Drawing: 2057 PLUMB

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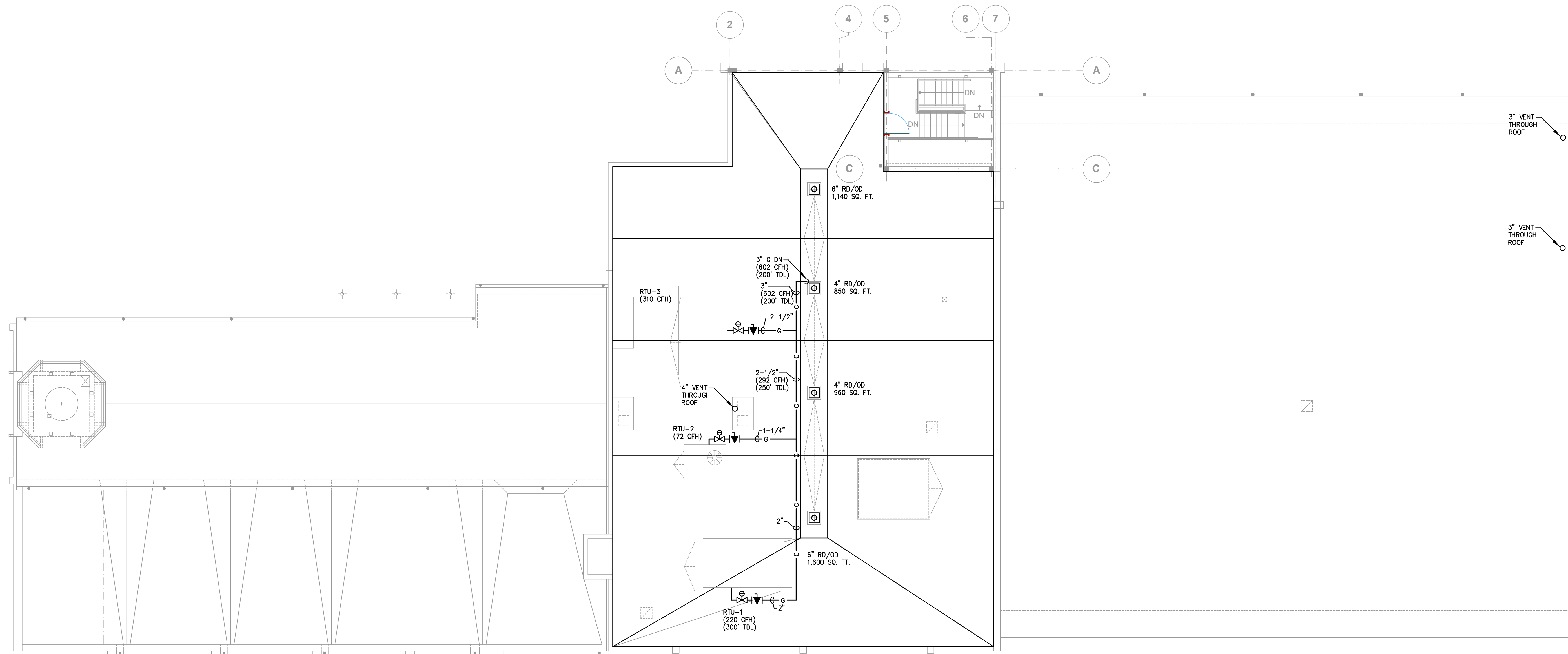
RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
 BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: SECOND FLOOR PLAN & PARTIAL PLANS - PLUMBING

DRAWING DATE:
 01 JULY 2020

REVISION DATE:

DRAWN BY:
ACL
 COMMISSION NO.
5475B

P3

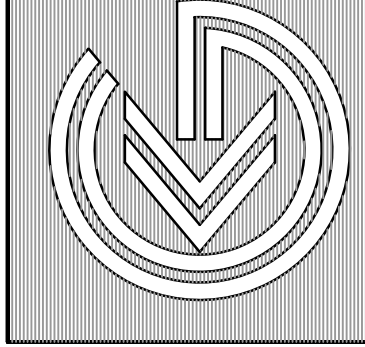


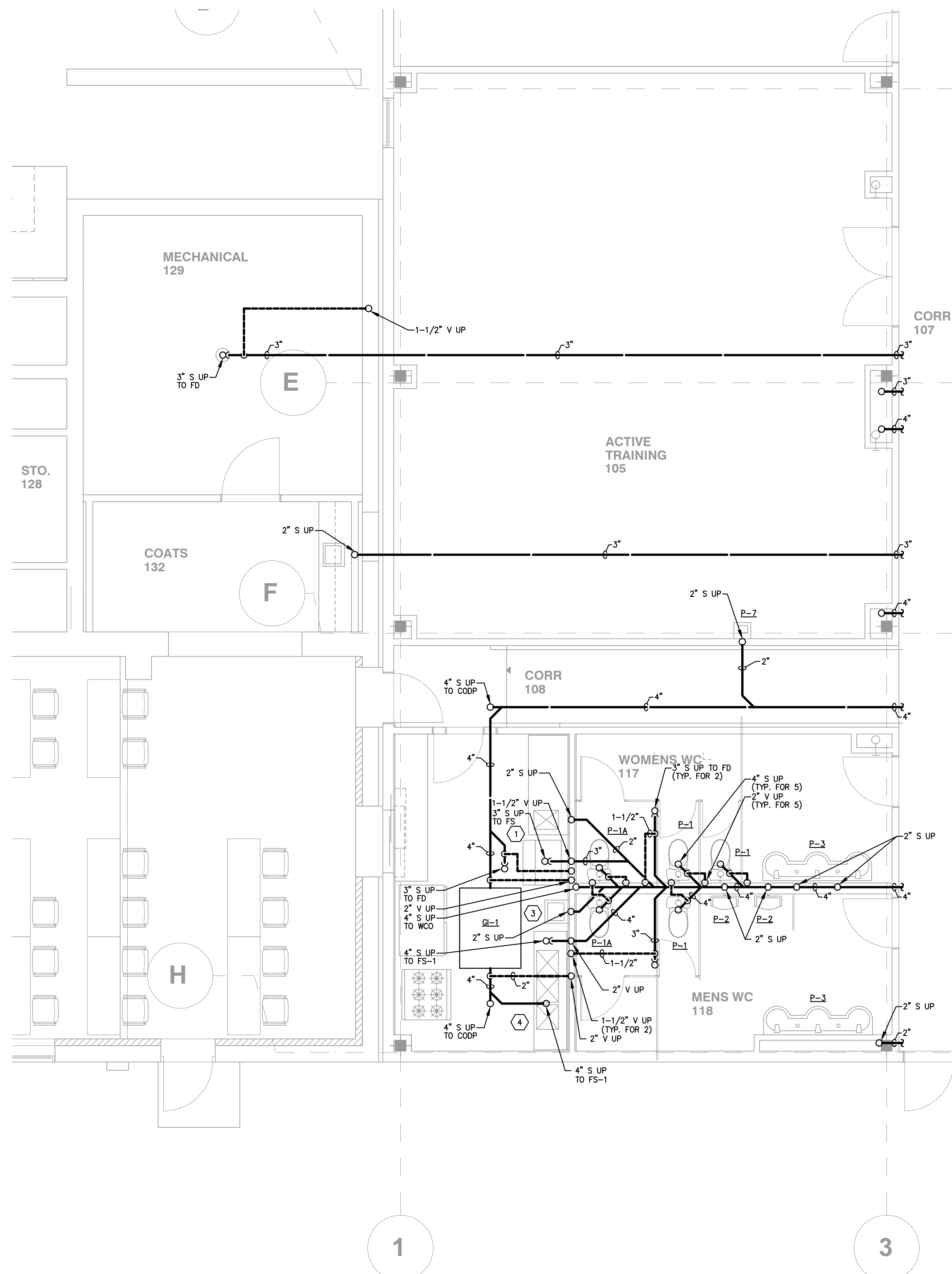
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P4 **ROOF PLAN - PLUMBING**
SCALE 1/8" = 1'-0"

- NOTES:**
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 4. FOR PITCHED ROOF AREAS REFER TO ARCHITECTURAL DRAWINGS.

STORM WATER PIPE SIZING		
SLOPE = 1/8" PER 1'-0"		
SIZE	5" RAINFALL PER HOUR	6" RAINFALL PER HOUR
2"	N/A	N/A
3"	674 SQ. FT.	561 SQ. FT.
4"	1,444 SQ. FT.	1,203 SQ. FT.
6"	4,293 SQ. FT.	3,577 SQ. FT.
8"	9,221 SQ. FT.	7,684 SQ. FT.
10"	16,728 SQ. FT.	13,940 SQ. FT.
12"	27,200 SQ. FT.	22,667 SQ. FT.
15"	49,338 SQ. FT.	41,115 SQ. FT.

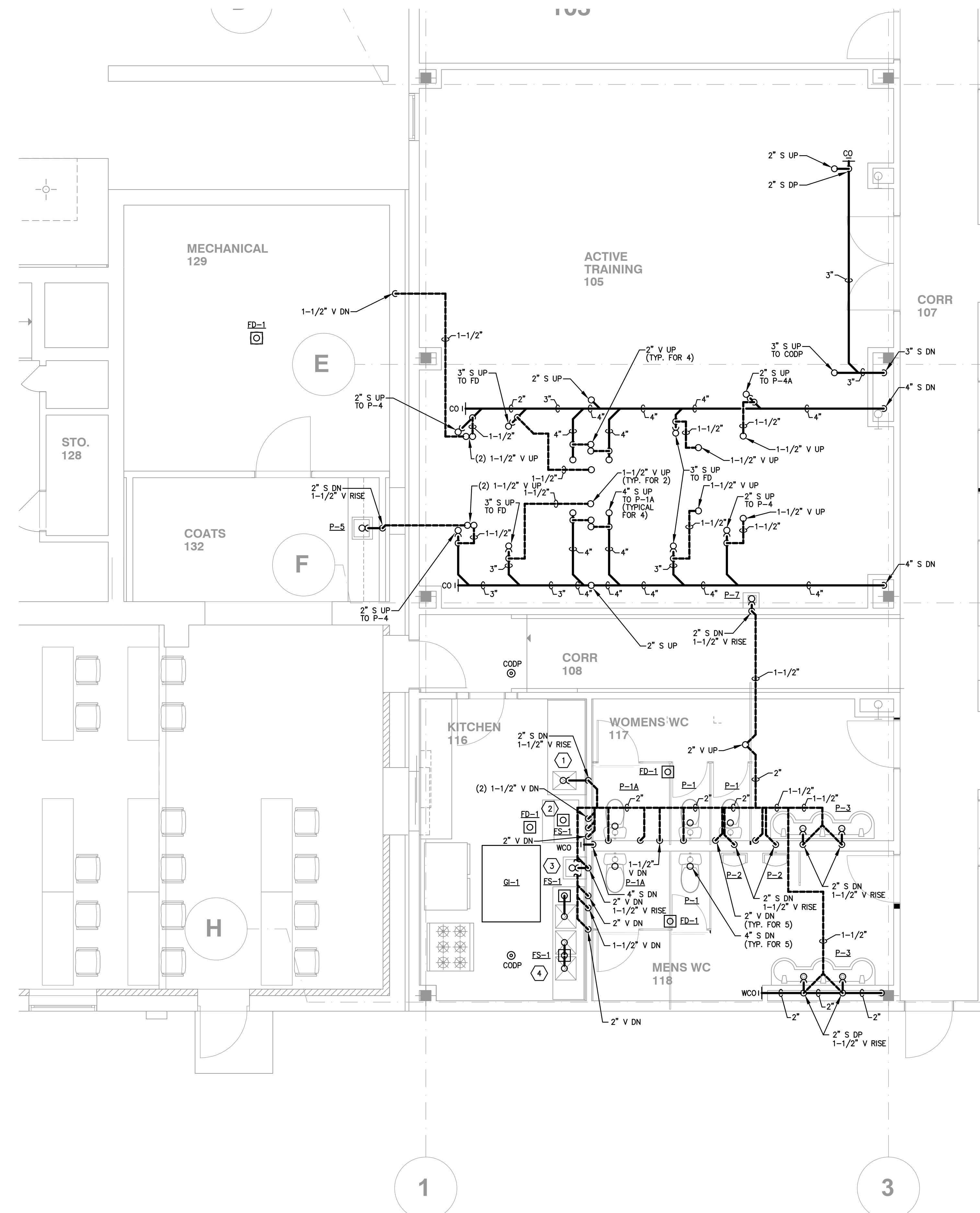
- NOTES:**
1. FOR SLOPES OTHER THAN THAT SHOWN, REFER TO NSPC 2016 TABLE 13.6.2 PART I.





1
P5 **PARTIAL UNDERSLAB PLAN - SANITARY AND VENT - PLUMBING**
SCALE 1/4" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 4. FLOOR DRAINS IN WOMEN'S WC 117 & MEN'S WC 118 SHALL BE LOCATED IN FIELD SUCH THAT CENTERLINE OF DRAIN BODY SHALL ALIGN UNDER CENTERLINE OF TOILET PARTITION.



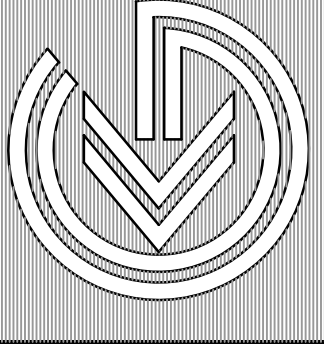
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P5 **PARTIAL FIRST FLOOR PLAN - SANITARY AND VENT - PLUMBING**
SCALE 1/4" = 1'-0"

- NOTES:
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 4. FLOOR DRAINS IN WOMEN'S WC 117 & MEN'S WC 118 SHALL BE LOCATED IN FIELD SUCH THAT CENTERLINE OF DRAIN BODY SHALL ALIGN UNDER CENTERLINE OF TOILET PARTITION.

August 26, 2020, 3:18:05 p.m.
Drawing: 2657 PLUMB

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Professional Engineer
NJ 38606



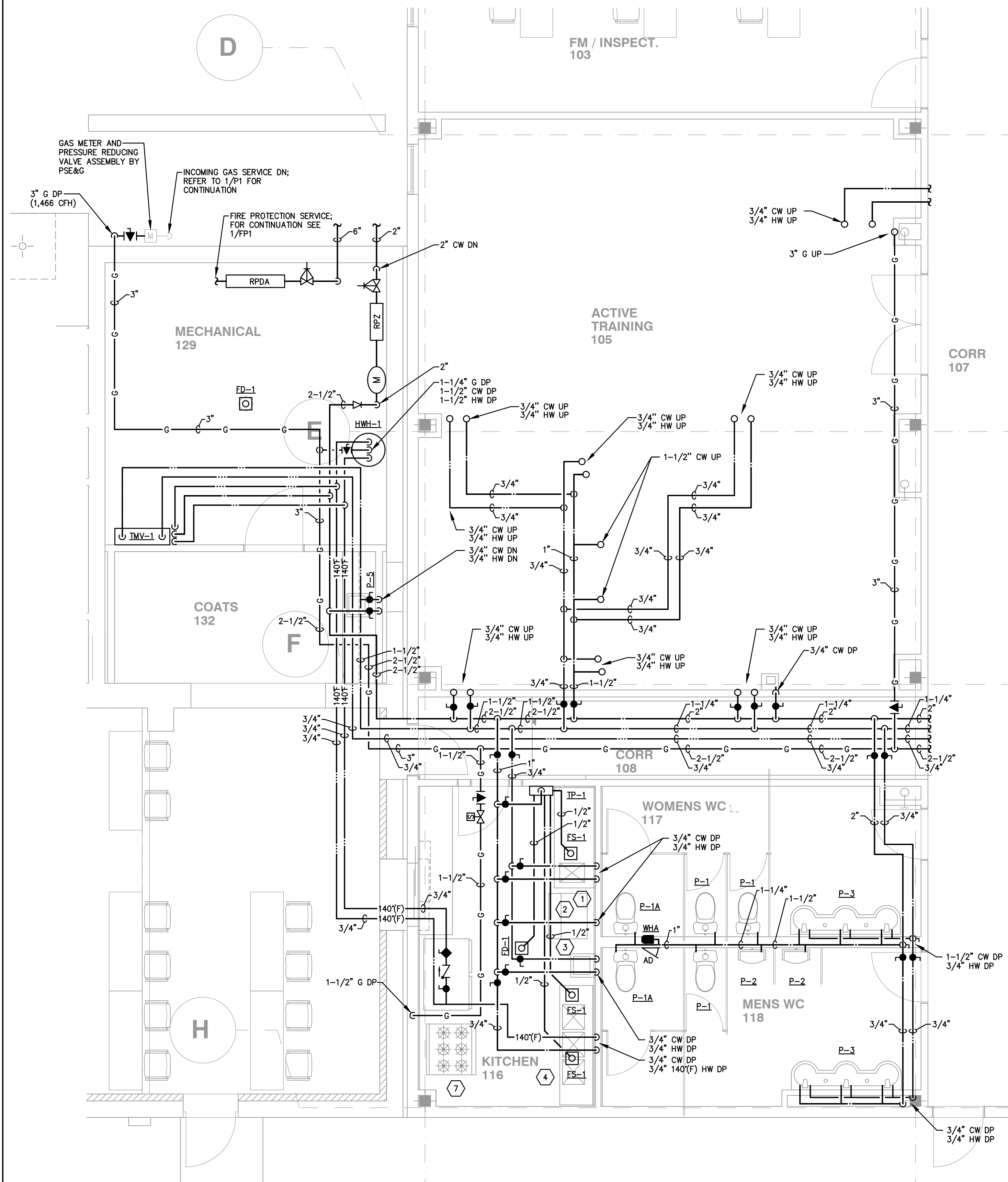
RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: PARTIAL PLANS - PLUMBING

DRAWING DATE:
01 JULY 2020

REVISION DATE:

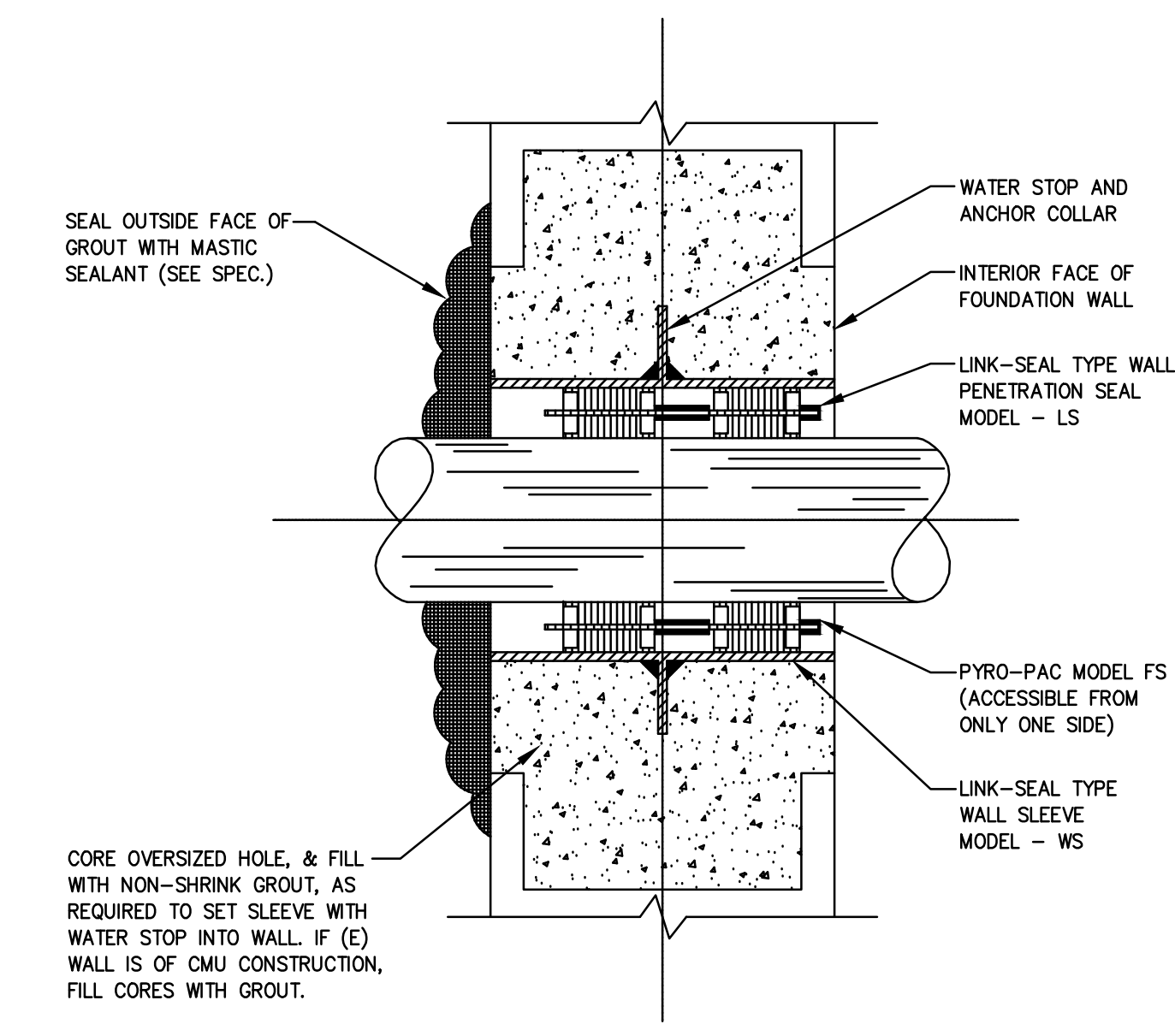
DRAWN BY:
ACL
COMMISSION NO.
5475B

P5

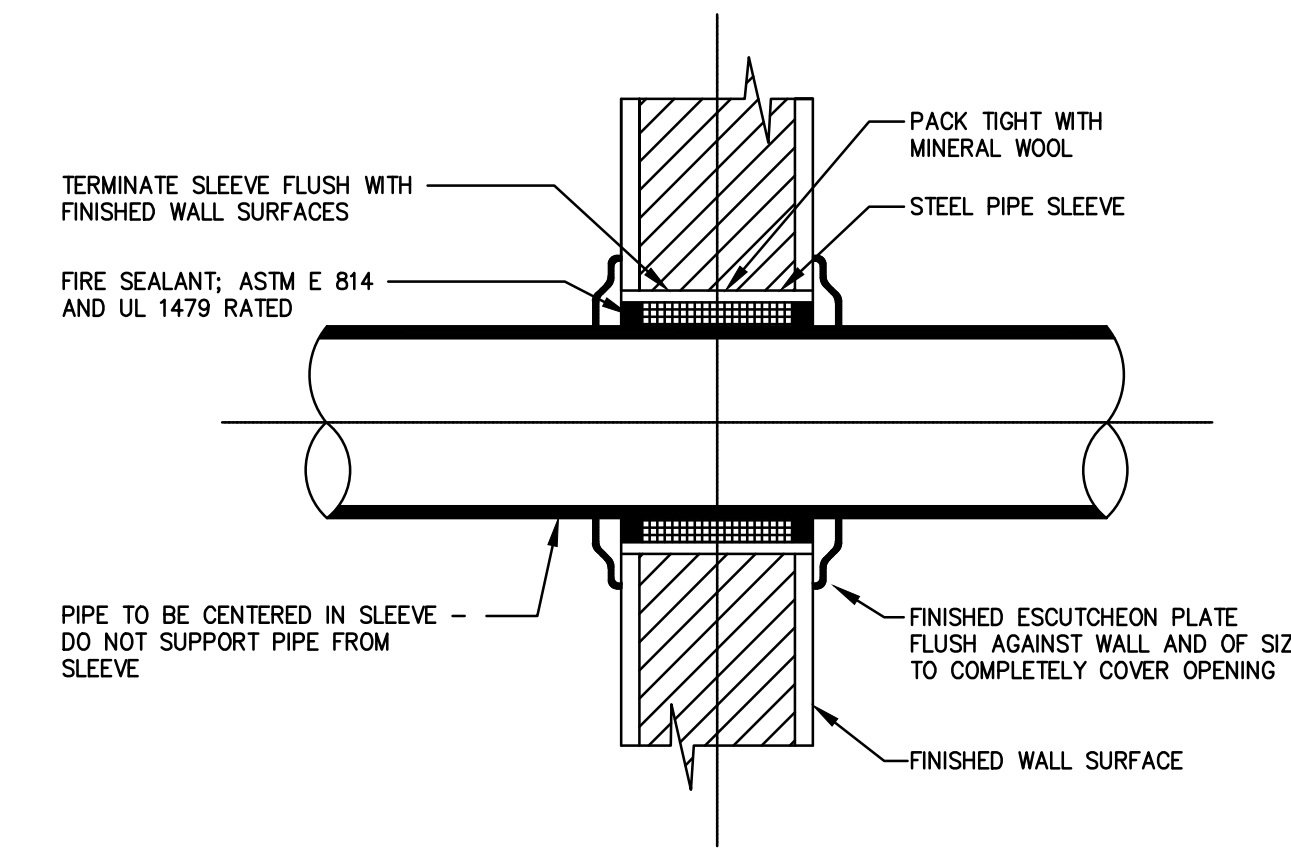


1 PARTIAL FIRST FLOOR PLAN - DOMESTIC WATER AND NATURAL GAS - PLUMBING
 P6
 SCALE 1/4" = 1'-0"

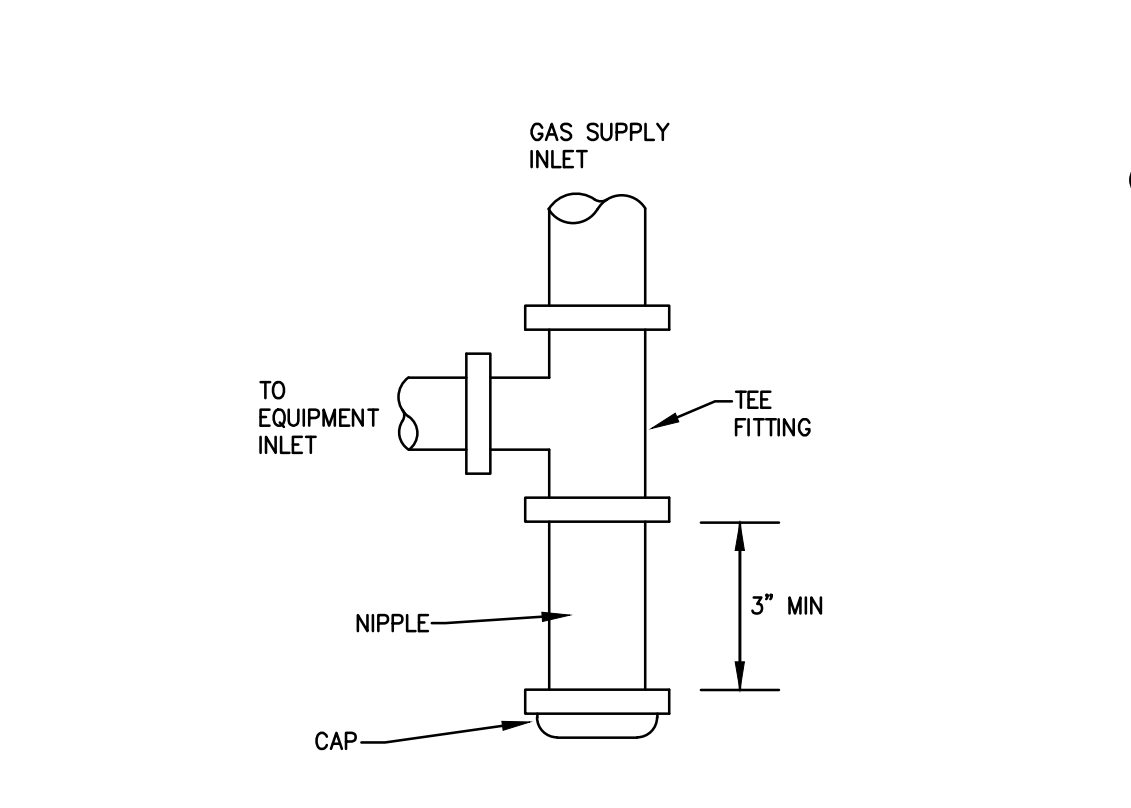
- NOTES:
- INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 - WIND RESTRAINT LOADINGS SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 - SEISMIC RESTRAINT LOADINGS SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.



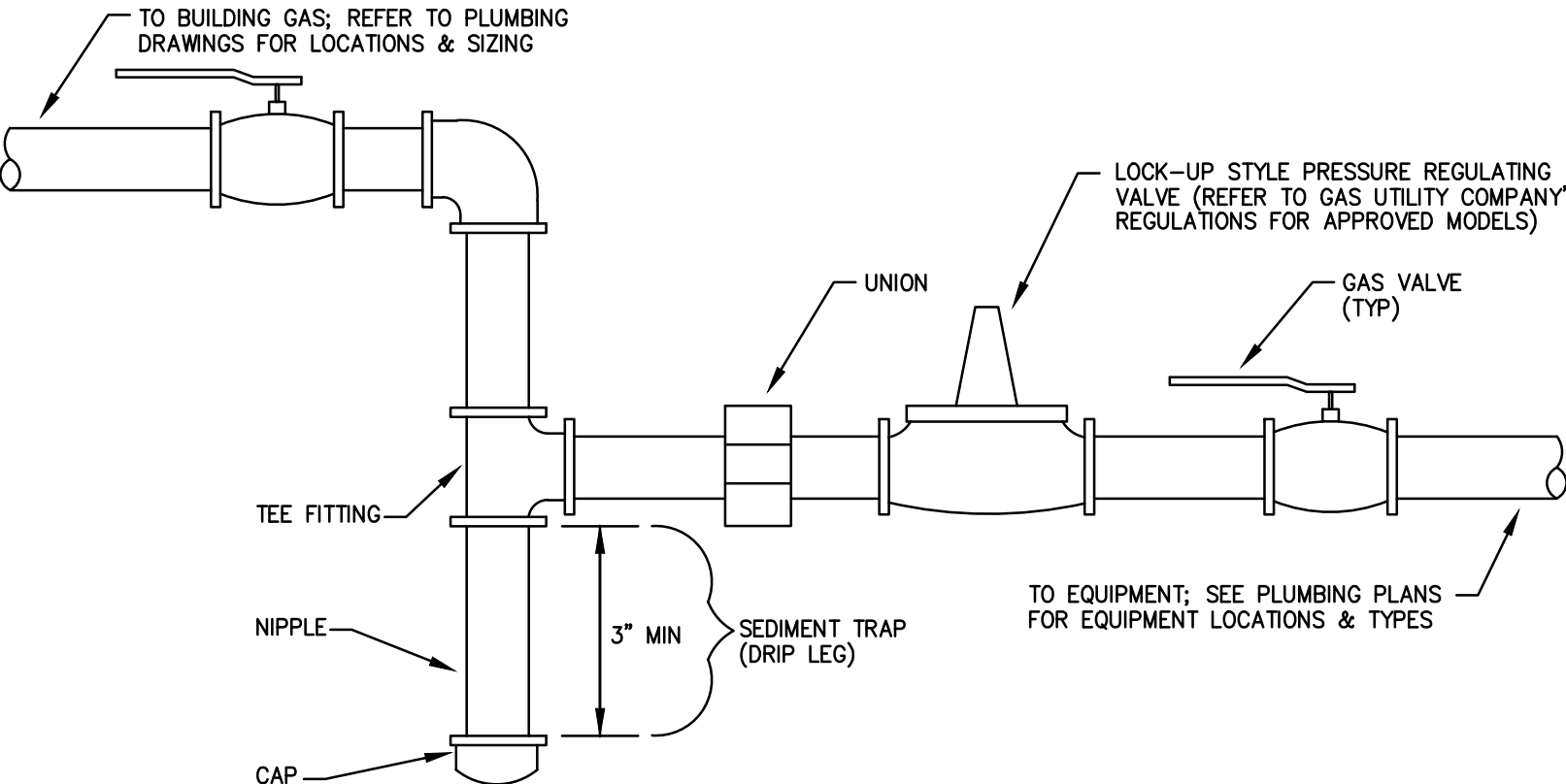
2 PIPE SLEEVE THROUGH EXTERIOR FOUNDATION WALL
 P6
 NOT TO SCALE



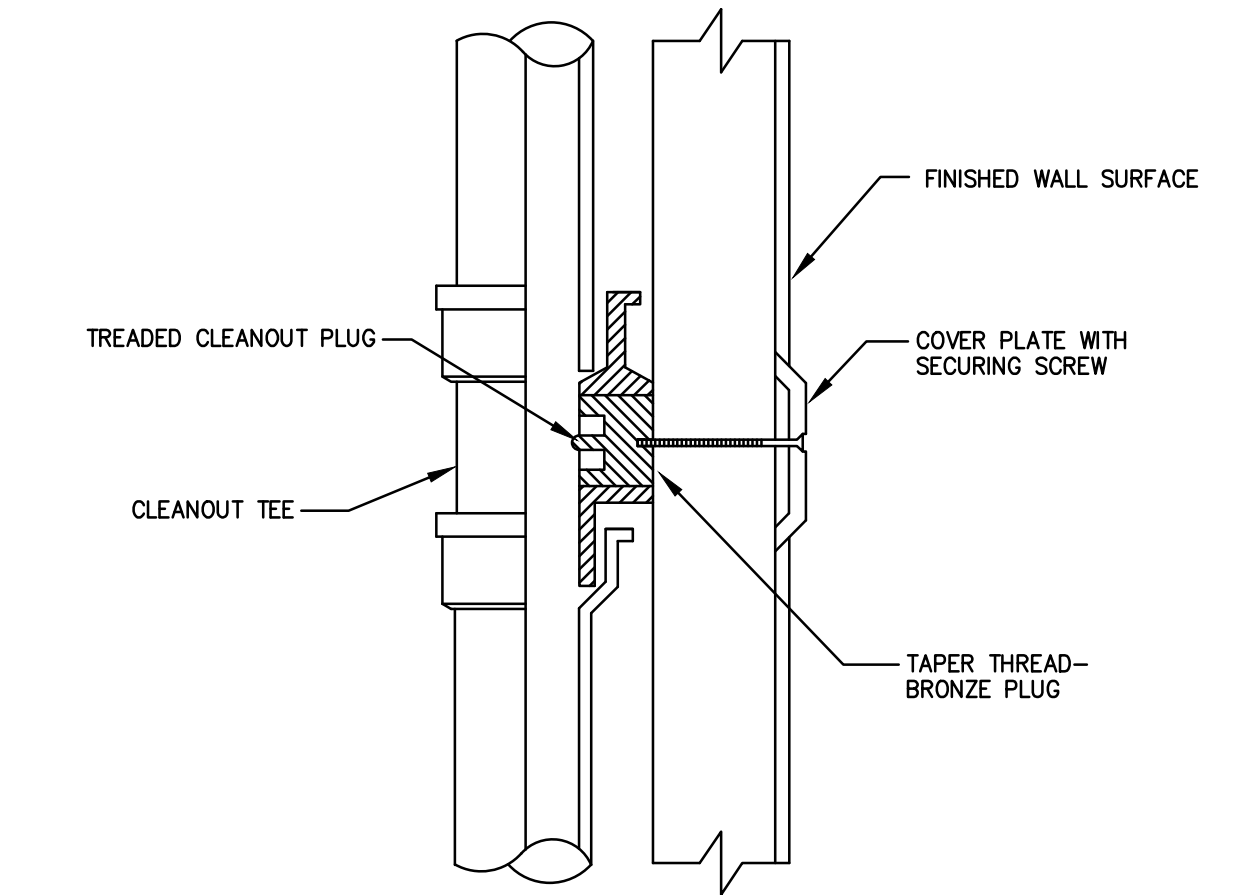
3 PIPE SLEEVE THROUGH INTERIOR FIRE RATED WALL WALL ASSEMBLY
 P6
 NOT TO SCALE



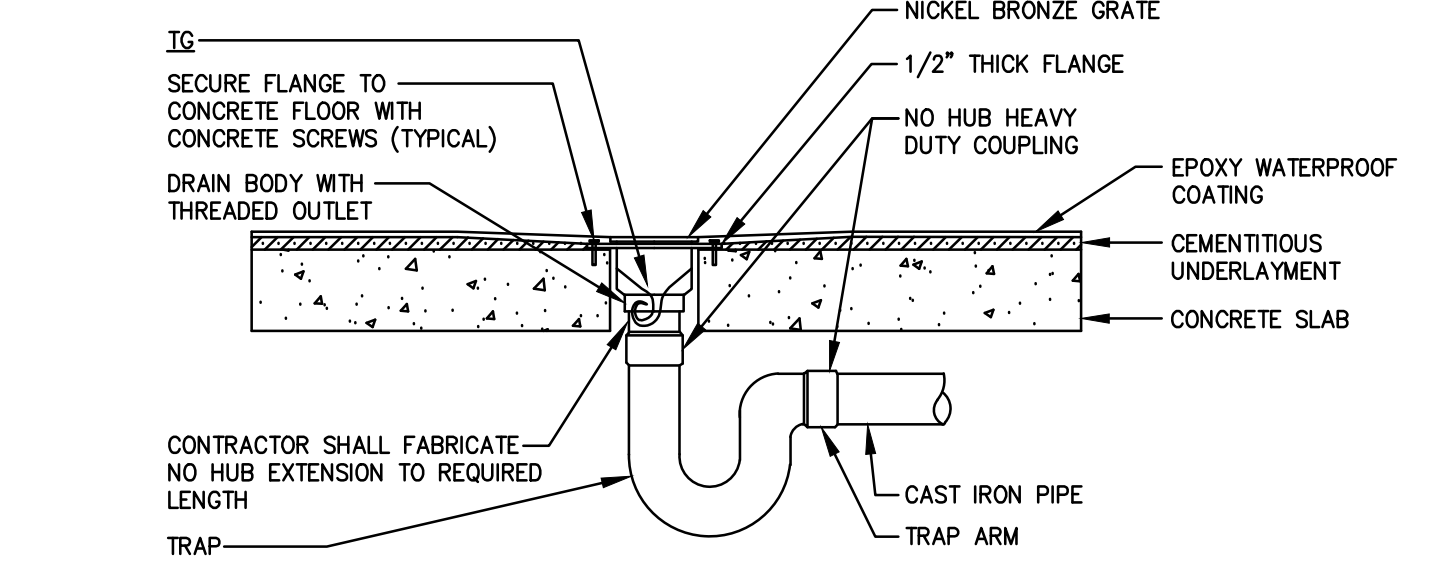
4 GAS PIPING SEDIMENT TRAP
 P6
 NOT TO SCALE



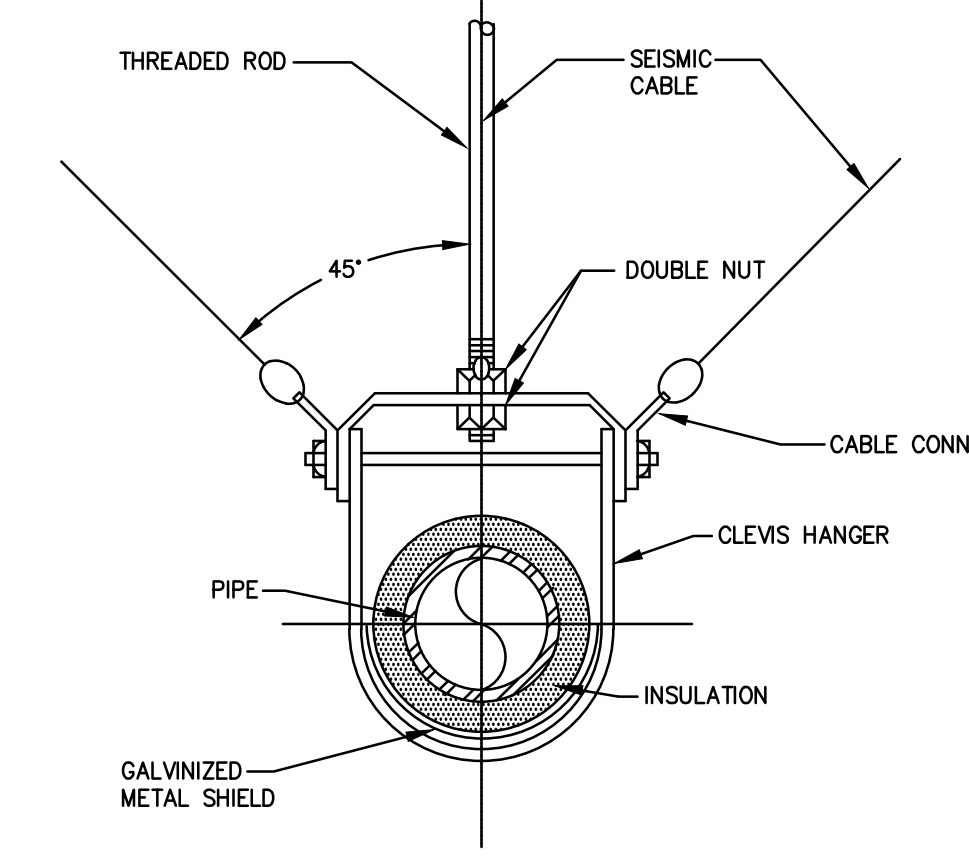
5 TYPICAL GAS EQUIPMENT CONNECTION
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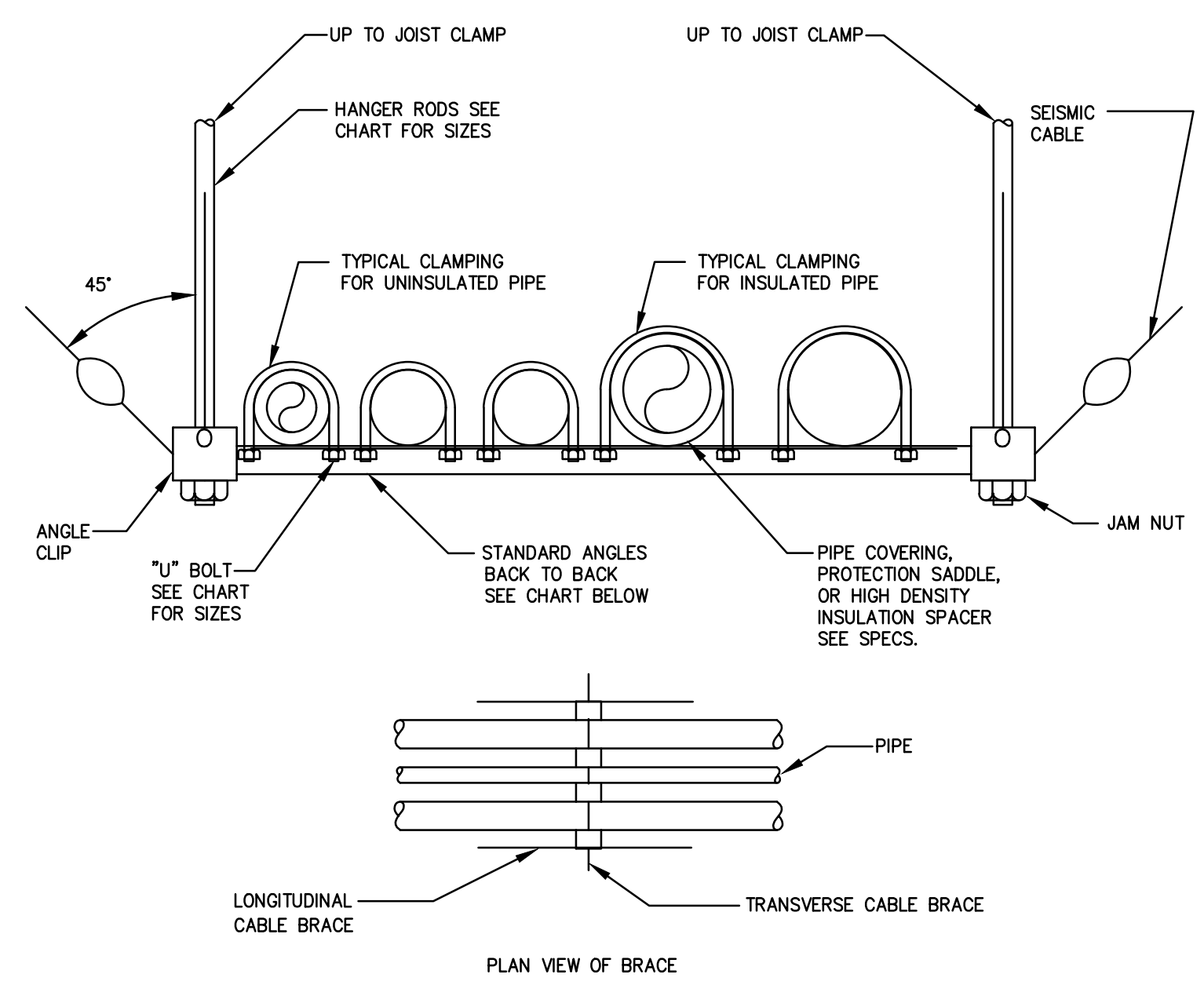
6 CLEANOUT FOR DRAINAGE PIPING CONCEALED BEHIND WALLS
 P6
 NOT TO SCALE



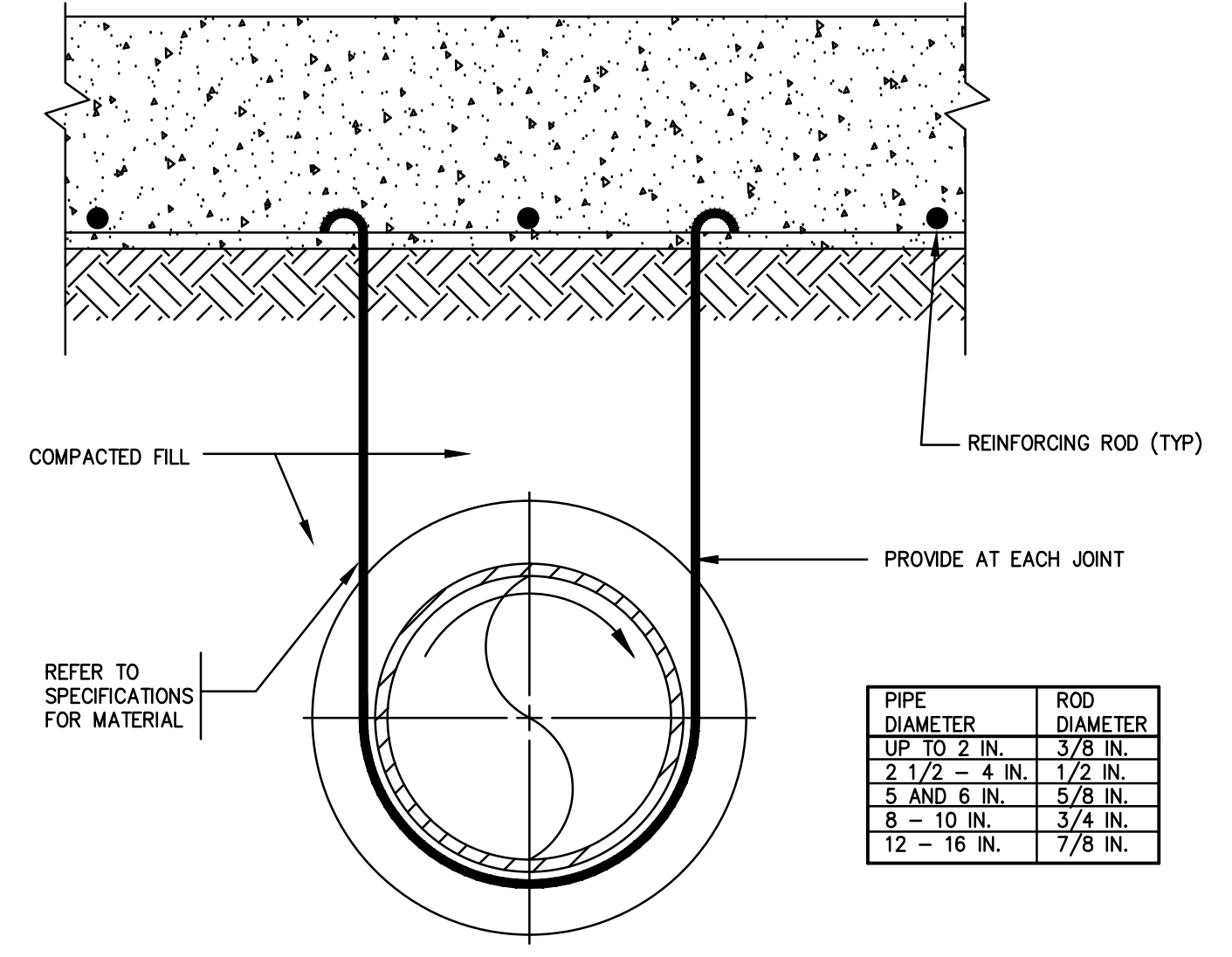
7 FLOOR DRAIN DETAIL WITH ELASTOMERIC TRAP SYSTEM
 P6
 NOT TO SCALE



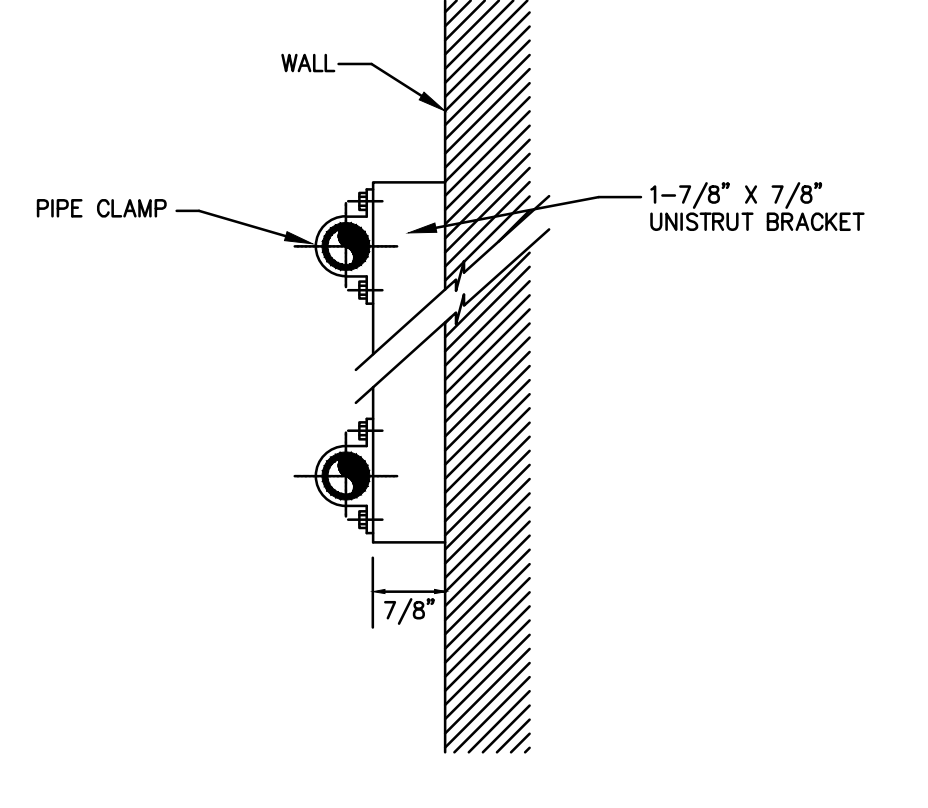
8 TRANSVERSE AND LONGITUDINAL CABLE BRACE FOR CLEVIS HUNG PIPE
 P6
 NOT TO SCALE



9 TRAPEZE HANGER DETAIL
 P6
 NOT TO SCALE



10 UNDERGROUND PIPING SUPPORT
 P6
 NOT TO SCALE



11 PIPE BRACKET DETAIL
 P6
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RELIEF FIRE COMPANY NO. 1
 ADDITION / RENOVATION
 BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: PARTIAL PLAN & DETAILS - PLUMBING

DRAWING DATE:
 01 JULY 2020
 REVISION DATE:
 DRAWN BY:
 ACL
 COMMISSION NO.
 5475B

P6

August 28, 2020, 3:18:29 p.m.
 Drawing: 2020 PLUMB

PLUMBING FIXTURE & CONNECTION SCHEDULE

MARK	FIXTURE	MOUNTING	MANUFACTURER	MODEL NO.	TRIM NO.	SUPPORT NO.	TRAP	WASTE	VENT MIN.	CW	HW	REMARKS
P-1	WATERCLOSET (HANDICAPPED)	FLOOR MOUNTED	KOHLER	HIGHLINE K-3519	N/A	N/A	INTEGRAL	4"	2"	1-1/4"	N/A	ADA COMPLIANT, VITREOUS CHINA WITH SKIRTED TRAPWAY; 1.28 GPF GRAVITY SIPHON JET DESIGN WITH KOHLER BREVEA K-2010-D QUIET CLOSE SEAT
P-2	URINAL	WALL HUNG	KOHLER	BARDON K-4991-ET	SLOAN ROYAL 186	ZURN Z-1222	1-1/4" x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	VITREOUS CHINA HIGH-EFFICIENCY URINAL; 0.125 GPF WASH OUT DESIGN WITH 14" EXTENDED RIM
P-2A	URINAL (HANDICAPPED)	WALL HUNG	KOHLER	BARDON K-4991-ET	SLOAN ROYAL 186	ZURN Z-1222	1-1/4" x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	ADA COMPLIANT, VITREOUS CHINA HIGH-EFFICIENCY URINAL; 0.125 GPF WASH OUT DESIGN WITH 14" EXTENDED RIM
P-3	LAVATORY	WALL HUNG	BRADLEY	EXPRESS SS-3N/RP	SEE REMARKS	ZURN	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	ADA COMPLIANT VANDAL RESISTANT TERREON BODY WITH STAINLESS STEEL ACCESS PANEL, HARDWIRED INFRARED FAUCET CONTROLS, 0.5 GPM FLOW RATE
P-3A	LAVATORY (HANDICAPPED)	WALL HUNG	BRADLEY	EXPRESS SS-1N/RP	SEE REMARKS	ZURN	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	ADA COMPLIANT VANDAL RESISTANT TERREON BODY WITH STAINLESS STEEL ACCESS PANEL, HARDWIRED INFRARED FAUCET CONTROLS, 0.5 GPM FLOW RATE
P-4	SHOWER	FLOOR MOUNTED	SEE REMARKS	SEE REMARKS	KOHLER RITE-TEMP K-8304-KS	N/A	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	FORGED BRASS PRESSURE BALANCE VALVE KIT; PROVIDE KOHLER K-T56910-4A SHOWER VALVE TRIM AND INFINITY DRAIN MODEL FXG-6539
P-4A	SHOWER (HANDICAPPED)	FLOOR MOUNTED	SEE REMARKS	SEE REMARKS	KOHLER RITE-TEMP K-8304-KS	N/A	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	ADA COMPLIANT; FORGED BRASS PRESSURE BALANCE VALVE KIT; PROVIDE KOHLER K-T56910-4A SHOWER VALVE TRIM AND INFINITY DRAIN MODEL FXG-6560
P-5	STAINLESS STEEL SINK	COUNTER MOUNTED	ELKAY	LUSTERSTONE LRAD252155	ELKAY LKD-2439C	COUNTERTOP	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	18 GAUGE STAINLESS STEEL SINK WITH GRID STRAINER; PROVIDE 3 HOLE CONFIGURATION, P-TRAP, TAIL PIECE, ANGLE VALVE, AND BRAIDED STEEL HOSE
P-6	MOP SINK	FLOOR MOUNTED	FIAT	STOCKTON TSB-700	AMERICAN STANDARD 8355.110	N/A	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	36" x 24" TERRAZZO MOP BASIN WITH 12" DEEP CURBS, STAINLESS STEEL CAP AND INTEGRAL STAINLESS STEEL DRAIN ASSEMBLY WITH STRAINER; PROVIDE MOP HANGER, HOSE BRACKET, AND WALL GUARDS
P-7	WATER COOLER	WALL HUNG	ELKAY	EZ508S	N/A	N/A	-	N/A	N/A	3/4"	N/A	STAINLESS STEEL, VANDAL RESISTANT, WALL MOUNTED, 8 GPH, SINGLE STATION WATER COOLER
EM-1	EMERGENCY EYEWASH/SHOWER	FLOOR MOUNTED	GUARDIAN	G1950HS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	COMBINATION SHOWER/EYEWASH WITH AUXILIARY DRENCH HOSE; PROVIDE 1-1/4" TEMPERED WATER FROM THERMOSTATIC MIXING VALVE TMV-1

NOTE:

- ALL EXPOSED TRAP ASSEMBLIES AND WATER SUPPLIES TO BE INSULATED.
- MOUNTING HEIGHTS FOR ALL FIXTURES SHALL BE AS INDICATED AND DIRECTED BY ARCHITECT.
- PLUMBING CONTRACTOR SHALL COORDINATE SPECIFIED COUNTER SINKS WITH MILLWORK CONSTRUCTION DRAWINGS PRIOR TO PURCHASE OF ANY PLUMBING FIXTURES, AND SUBMIT MILLWORK DRAWINGS WITH FIXTURE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- ALL LAVATORIES AND HANDWASH SINKS SHALL BE PROVIDED WITH TEMPERING VALVE TV-1 SET TO 105°F) DISCHARGE TEMPERATURE.

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
BF	BELOW FLOOR	HW	HOT WATER SUPPLY
CFH	CUBIC FEET PER HOUR	HWR	HOT WATER RETURN
CO	CLEANOUT	HZ	HERTZ
CW	COLD WATER	I.W.	INDIRECT WASTE
DA	DIAMETER	KW	KILOWATT
DN	DOWN	LBS	POUNDS
DP	DROP	PH	PHASE
DW	DISHWASHER	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	S	SANITARY
(E)	EXISTING	SAN.	SANITARY
F	FARENHEIT	SCW	STANDARD CLOTHES WASHER
G	NATURAL GAS	TEMP.	TEMPERATURE
GAL	GALLONS	W	WATT
GPF	GALLONS PER FLUSH	W.C.	WATER COLUMN
GPH	GALLONS PER HOUR	°	AT
GPM	GALLONS PER MINUTE	°	DEGREES
GW	GEAR WASHER		

KITCHEN PLUMBING EQUIPMENT SCHEDULE

ITEM	QTY.	DESCRIPTION	WASTE	I.W.	VENT	CW	HW	GAS	CFH	REMARKS
①	1	CUSTOM STAINLESS STEEL WORK COUNTER WITH SINK	N/A	1-1/2"	N/A	1/2"	1/2"	N/A	N/A	-
②	1	ICE MAKER WITH BIN	N/A	3/4"	N/A	3/8"	N/A	N/A	N/A	-
③	1	HAND SINK	1-1/2"	N/A	1-1/2"	1/2"	1/2"	N/A	N/A	-
④	1	THREE-COMPARTMENT SINK	N/A	(3) 2"	N/A	1/2"	1/2"	N/A	N/A	-
⑤	1	SIX-BURNER GAS RANGE	N/A	N/A	N/A	N/A	N/A	1-1/4"	184	GAS QUICK DISCONNECT

NOTE:

- KITCHEN EQUIPMENT IS SHOWN FOR COORDINATION OF CONNECTION SIZES ONLY; ALL EQUIPMENT IS PROVIDED BY OWNER OR SPECIFIED ON ARCHITECTURAL DRAWINGS.

PLUMBING SPECIALTIES SCHEDULE

MARK	DESCRIPTION	MANUFACTURER MODEL	REMARKS
HB-1	HOSE BIBB	ZURN Z-195	BRONZE BODY, ENCASED, ANTI-SIPHON, AUTOMATIC DRAINING, INTEGRAL BACKFLOW PREVENTOR & 3/4" HOSE CONNECTION
WHA	WATER HAMMER ARRESTOR	ZURN Z-1700	STAINLESS STEEL CONSTRUCTION, SIZE 600 & 1" OUTLET
TG	WATERLESS TRAP GUARD	PROVENT TRAP GUARD	ELASTOMERIC, NORMALLY CLOSED TRAP GUARD DEVICE WHICH OPENS WHEN IN CONTACT WITH LIQUID, COMPLES WITH WITH ANS/ASSE A112.8.3
RPZ	BACKFLOW PREVENTOR	WATTS 009	2" SIZE DOMESTIC WATER REDUCED PRESSURE ZONE VALVE ASSEMBLY WITH STRAINER
RDDA	BACKFLOW PREVENTOR	WATTS 909 RDDA	1/2" SIZE FIRE PROTECTION REDUCED PRESSURE DETECTOR CHECK VALVE ASSEMBLY W/FLANGED ENDS & BYPASS ASSEMBLY W/WATER METER
TMV-1	THERMOSTATIC MIXING VALVE	LEONARD TM-1520A	HIGH/LOW DESIGN WITH LEAD-FREE BRASS BODY, BI-METALIC THERMOSTATIC ELEMENTS, 1-1/4" HW & CW INLETS, 1-1/2" HW OUTLET
TMV-2	THERMOSTATIC MIXING VALVE	LEONARD TM-600	BRASS BODY, BIMETALIC THERMOSTAT SET TO 85°F) WITH 90°F) HIGH LIMIT, VALVE WILL LOCK OUT IF COLD WATER SUPPLY FAILS
TV-1	POINT OF USE TEMPERING VALVE	LEONARD 270	INSTALL BELOW SINK-SET OUTLET TEMPERATURE TO 105° (F).

PLUMBING SYMBOL LIST

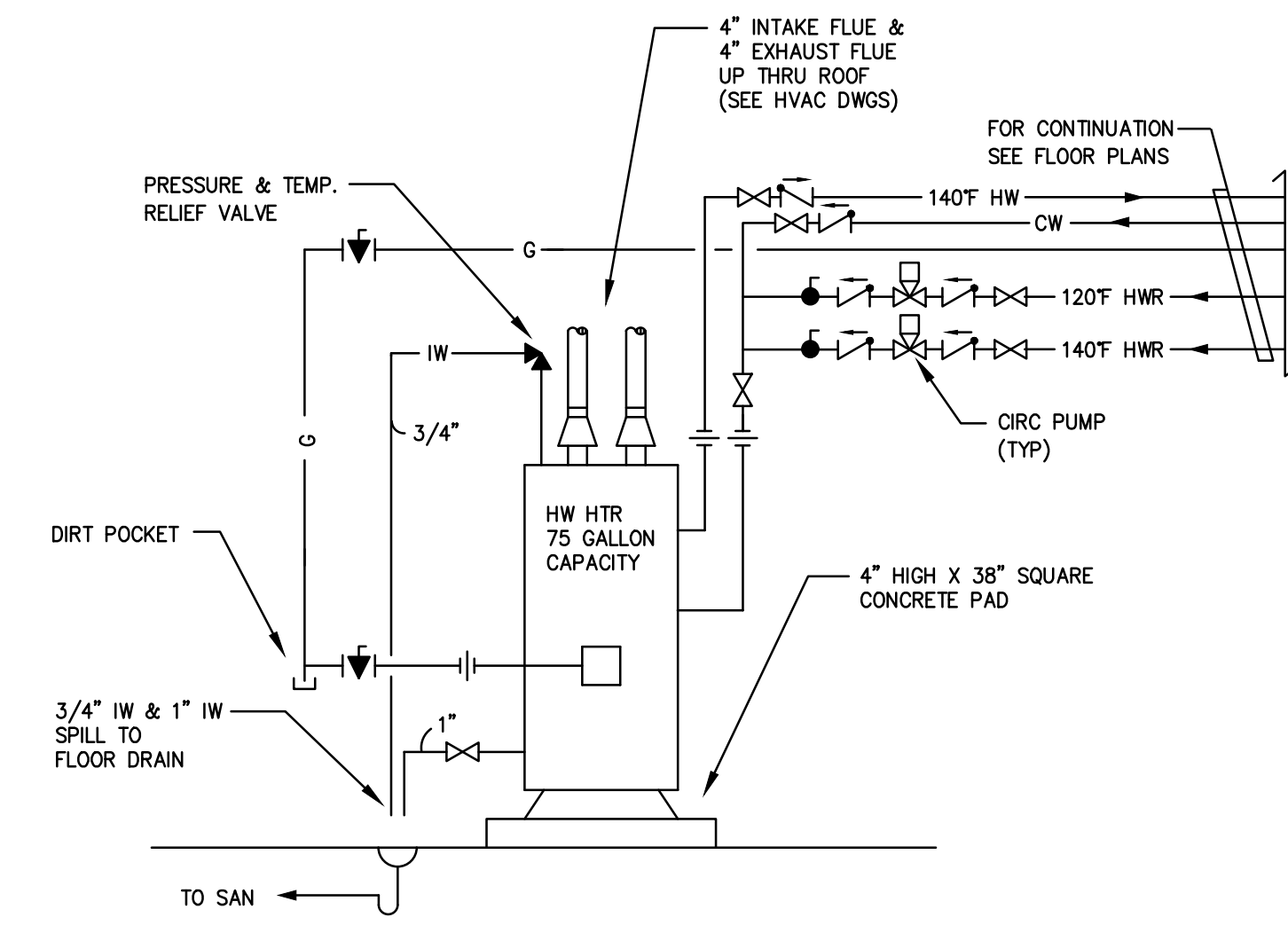
ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION
CW		COLD WATER PIPING	BY		BALL VALVE
HW		HOT WATER PIPING	O.S.&Y.		OUTSIDE STEM & YOKE VALVE
HWR		HOT WATER RETURN PIPING	CV		CHECK VALVE
140F HW		140F HOT WATER PIPING	SV		SOLENOID VALVE
140F HWR		140F HOT WATER RETURN PIPING	AV		ANGLE VALVE
T		TEMPERED WATER			STRAINER
EX		EXISTING PIPING TO BE REMOVED			INLINE PUMP
V		VENT			UNION
SAN		SOIL, WASTE, OR SANITARY SEWER			HOSE BIBB W/VACUUM BREAKER
SAN		UNDERGROUND/BELOW SLAB SOIL, WASTE, OR SANITARY SEWER			NON-FREEZE WALL HYDRANT
IW		INDIRECT WASTE			PRESSURE GAUGE WITH GAUGE COCK
ST		STORM WATER SEWER			PIPING DROP
G		NATURAL GAS			PIPING RISE
(E) G		(E) NATURAL GAS			REDUCER
		CAPPED OUTLET			BRANCH - TOP CONNECTION
		VALVED & CAPPED OUTLET			BRANCH - BOTTOM CONNECTION
PV		GAS PLUG VALVE	WHA		WATER HAMMER ARRESTOR
		GAS PRESSURE REGULATOR			HOT WATER RETURN BALANCING VALVE ASSEMBLY
T&P		TEMPERATURE & PRESSURE RELIEF VALVE	FD/RD		FLOOR/ROOF DRAIN
CO		CLEANOUT	TD		TRENCH DRAIN
M		WATER METER & VALVE ASSEMBLY	COOP		CLEAN OUT DECK PLATE
M		GAS METER AND PRESSURE REGULATING VALVE ASSEMBLY	TV		HOT WATER TEMPERING VALVE
			TMV		THERMOSTATIC MIXING VALVE
			RPZ		REDUCED PRESSURE ZONE VALVE ASSEMBLY
			HWR		HOT WATER RECIRCULATING PUMP

PLUMBING EQUIPMENT SCHEDULE

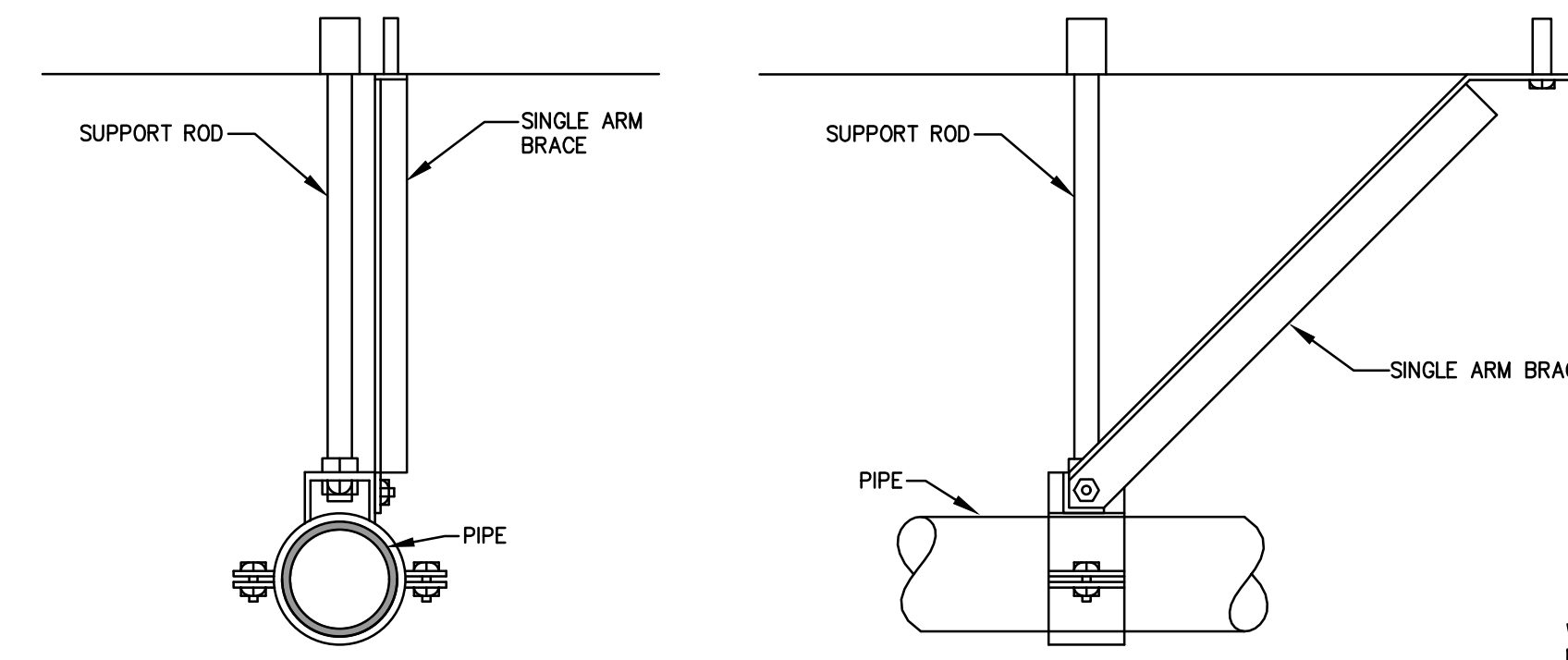
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LOCATION	DESIGN DATA		ELECTRICAL				REMARKS		
					CAPACITY	PUMP HEAD	HP	RPM	VOLTS	PH		HZ	MBH
HWH-1	GAS FIRED HOT WATER HEATER	BRADFORD WHITE	EF-60T-150E-3NA	MECHANICAL 129	169 GPH @ 100°F) TEMPERATURE RISE	N/A	N/A	N/A	120	1	60	150	99.1% EFFICIENT ENERGY STAR RATED, DIRECT SPARK IGNITION, VITRAGLAS LINING, MAGNESIUM ANODE RODS, 4" CPVC CONCENTRIC FLUE/AIR INTAKE, PROVIDE LOW INLET GAS PRESSURE OPTION
ET-1	HOT WATER EXPANSION TANK	AMTROL	ST-5-C	MECHANICAL 129	21 GAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ASME RATED THERMAL EXPANSION TANK WITH 150 PSI WORKING PRESSURE, 2.1 GALLON TANK VOLUME, STEEL SHELL, NSF/ANSI 61 BUTYL DIAPHRAGM, POLYPROPYLENE LINER, FACTORY PRE-CHARGED
GI-1	AUTOMATIC GREASE INTERCEPTOR	HIGHLAND TANK	AGI-50-FM	KITCHEN 116	50 GPM	N/A	N/A	N/A	115	1	60	N/A	12 GA TYPE 304 STAINLESS STEEL BODY, 1500W IMMERSION HEATER, HOLDING CAPACITY 49.9 GAL./284 LBS, RETENTION TIME 59.9 SEC., WITH REMOTE DIGITAL TIMER AND HIGH GREASE ALARM
OWS-1	OIL/WATER SEPARATOR	HIGHLAND TANK	OSI-750	SEE DRAWINGS	750 GALLON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DOUBLE WALL, STEEL UNDERGROUND OIL/SAND INTERCEPTOR WITH INTERNAL LEAK MONITORING, PROVIDE HEAVY-DUTY TRAFFIC RATED MANWAY COVERS
TP-1	TRAP PRIMER	ZURN	Z1020	MECHANICAL 129	2 OZ PER PORT	N/A	N/A	N/A	120	1	60	N/A	PREPROGRAMMED ELECTRONIC TRAP PRIMER IN GALVANIZED STEEL SURFACE MOUNT CABINET WITH 1/2" COPPER SOLDER COPPER CONNECTIONS AND 24 VAC SOLENOID VALVE
HWR-1	HOT WATER RETURN CIRCULATION PUMP	BELL & GOSSETT	XL55-45	MECHANICAL 129	15 GPM	40'	1/2"	-	208	1	60	N/A	BRONZE BODY & IMPELLER WITH CERAMIC SEAL & SPRING COUPLING
HWR-2	HOT WATER RETURN CIRCULATION PUMP	BELL & GOSSETT	XL55-45	MECHANICAL 129	15 GPM	40'	1/2"	-	208	1	60	N/A	BRONZE BODY & IMPELLER WITH CERAMIC SEAL & SPRING COUPLING
SP-1	ELEVATOR SUMP PUMP	STANCOR	SE-50 O/YM ELV	ELEVATOR PIT	67 GPM	15'	1/2"	3600	115	1	60	N/A	COMPLETE WITH SUBMERSIBLE PUMP, CHECK VALVE, SHUT-OFF VALVE, ALARM PANEL AND HIGH LIQUID ALARM FLOAT & 2" DISCHARGE, WITH OIL SMART SWITCH

PLUMBING FLOOR DRAIN SCHEDULE

MARK	DESCRIPTION	MANUFACTURER MODEL	LOCATION	REMARKS
FD-1	GENERAL DRAIN	ZURN INDUSTRIES, INC. ZN-415-P-Y	SEE DRAWINGS	C.I. BODY, SEDIMENT BUCKET, 3" OUTLET SIZE, 6" SQUARE TYPE 5" POLISHED NICKEL BRONZE STRAINER & ELASTOMERIC TRAP SEAL DEVICE (SEE "TIC" ON SPECIALTIES SCHEDULE)
FS-1	FLOOR SINK	ZURN INDUSTRIES, INC. ZN-1901-P-HD	SEE DRAWINGS	6" DEEP C.I. BODY, 4" OUTLET SIZE, 12" NICKEL-BRONZE FRAME AND FULL GRATE WITH 1/2" SQUARE OPENINGS, 1/2" TRAP PRIMER CONNECTION
RD/OD	ROOF/OVERFLOW	FROET 100C	SEE DRAWINGS	BI-FUNCTIONAL ROOF DRAIN WITH LOW PROFILE OVERFLOW STRAINER; REFER TO PLANS FOR DISCHARGE SIZES AND COVERAGE AREAS
TD-1	TRENCH DRAIN	ZURN INDUSTRIES INC Z886 PERMA-TRENCH	EQUIPMENT BAYS 120	6" x 80" HDPE TRENCH DRAIN WITH HEAVY DUTY FRAME ASSY, 40" ANS A112.21.1M SPECIAL DUTY & DIN 19580 LOAD CLASS F GALVANIZED DUCTILE IRON GRATES, 4" BOTTOM OUTLETS
TD-2	SHOWER DRAIN	INFINITY DRAIN FXIG-6536	WC'S 211, 212, 213	3-3/4" WIDE 305 LSTAINLESS STEEL PRE-PITCHED CHANNEL WITH FIXED OUTLET AND REMOVABLE GRATE; FLASH INTO FLOOR WATERPROOFING SYSTEM TO PREVENT GAPS AND/OR LEAKS
TD-3	SHOWER DRAIN	INFINITY DRAIN FXIG-6560	HCP WC 210	3-3/4" WIDE 305 LSTAINLESS STEEL PRE-PITCHED CHANNEL WITH FIXED OUTLET AND REMOVABLE GRATE; FLASH INTO FLOOR WATERPROOFING SYSTEM TO PREVENT GAPS AND/OR LEAKS



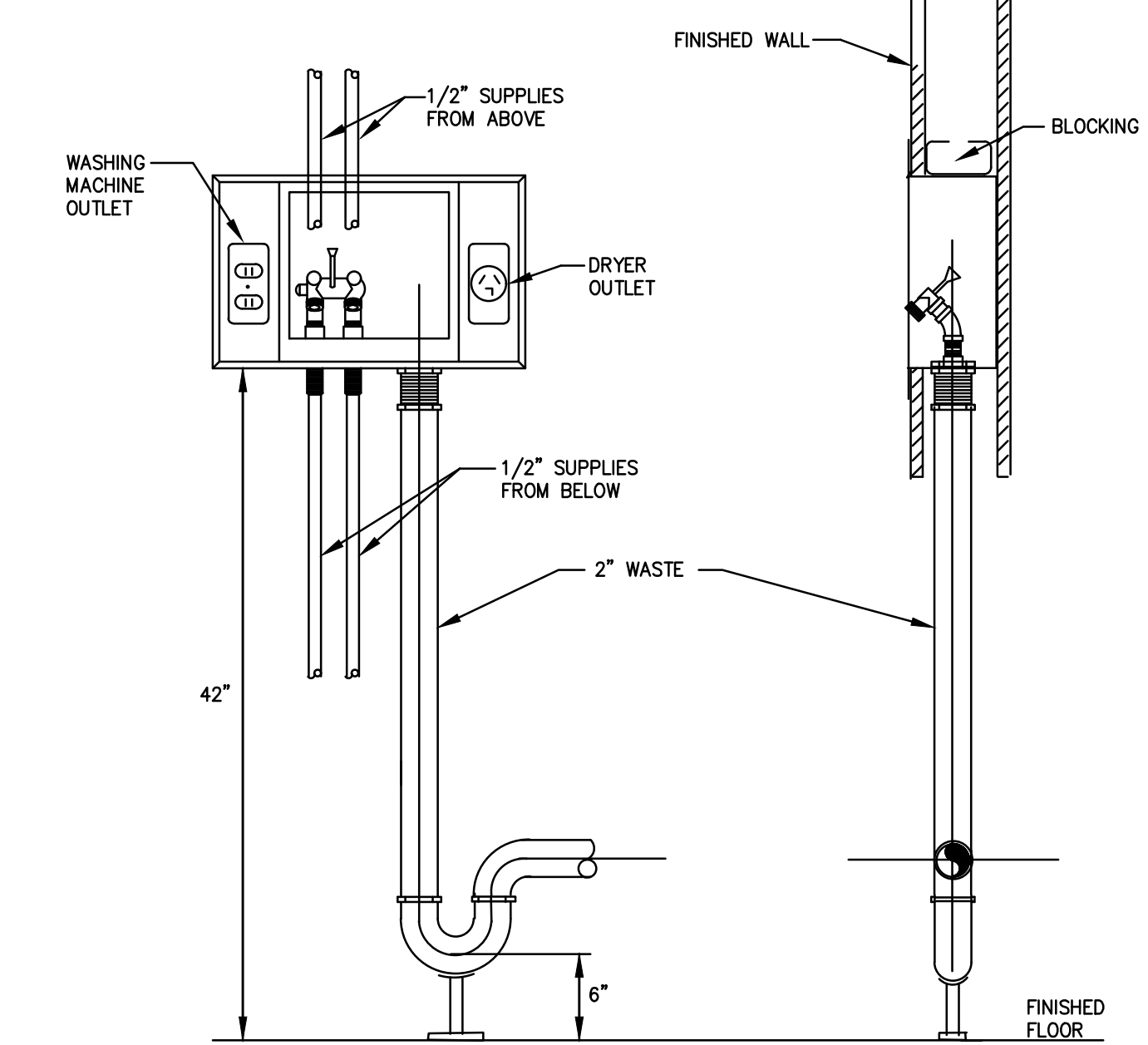
1 GAS FIRED HOT WATER HEATER
P7 NOT TO SCALE



5 SWAY BRACE FOR LARGE DIAMETER PIPE
P7 NOT TO SCALE

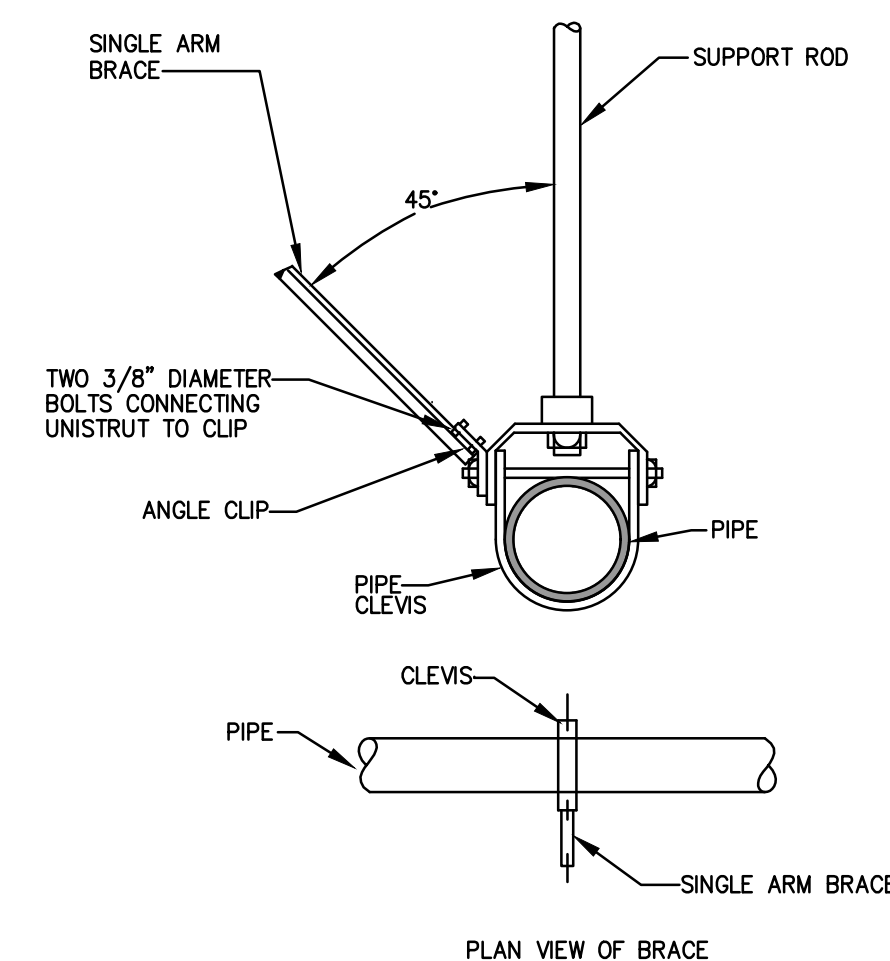
6 ROOF-TOP GAS PIPE SUPPORT DETAIL
P7 NOT TO SCALE

- NOTES:
- HEIGHT ADJUSTABLE FROM 4-1/2" TO 12"; EVEN LOADING REQUIRED - LOAD SHALL NOT EXCEED 186 LBS.
 - MAXIMUM SPACING SHALL NOT EXCEED: 10'-0" FOR PIPES 1" AND LARGER 5'-0" FOR 3/4" PIPES

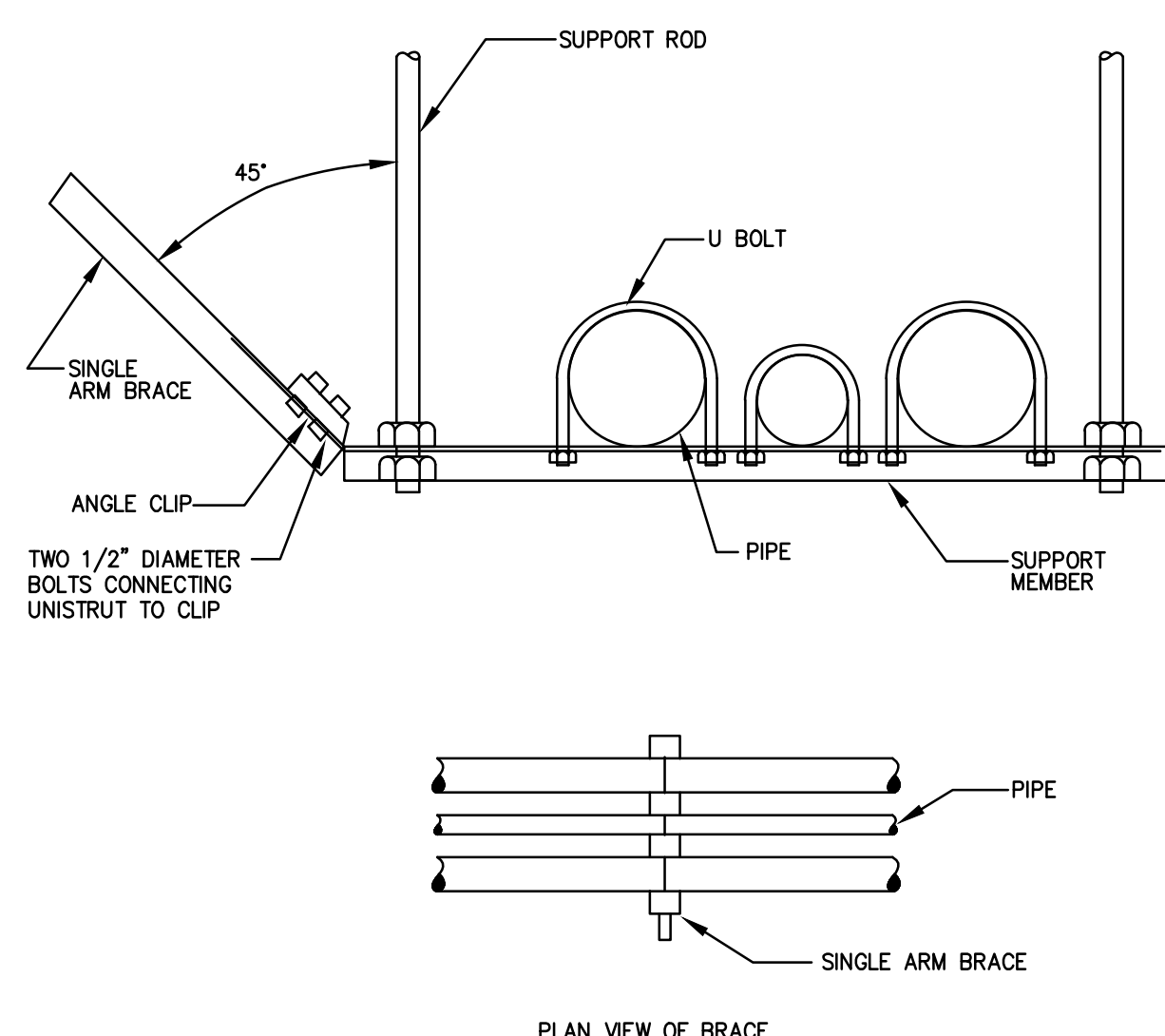


7 LAUNDRY SUPPLY & DRAIN DETAIL
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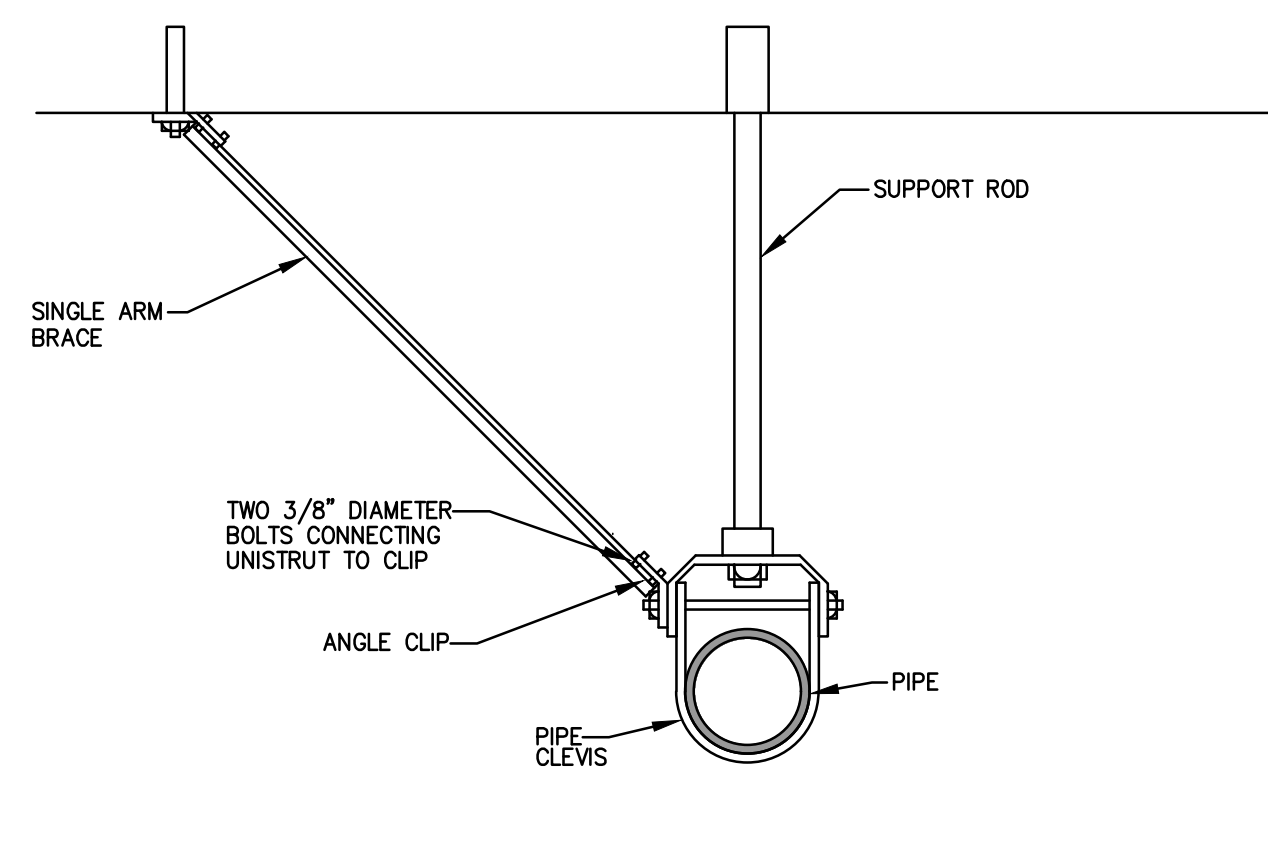
2 SINGLE ARM BRACE FOR CLEVIS HUNG PIPE
P7 NOT TO SCALE



3 SINGLE ARM BRACE FOR TRAPEZE HUNG PIPE
P7 NOT TO SCALE

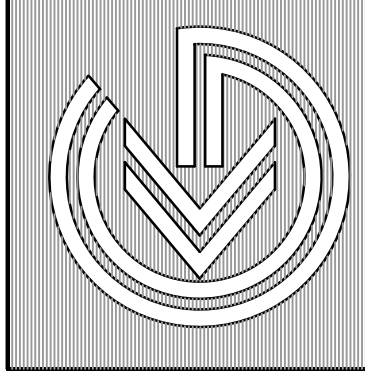


4 SINGLE ARM BRACE FOR CLEVIS HUNG PIPE
P7 NOT TO SCALE



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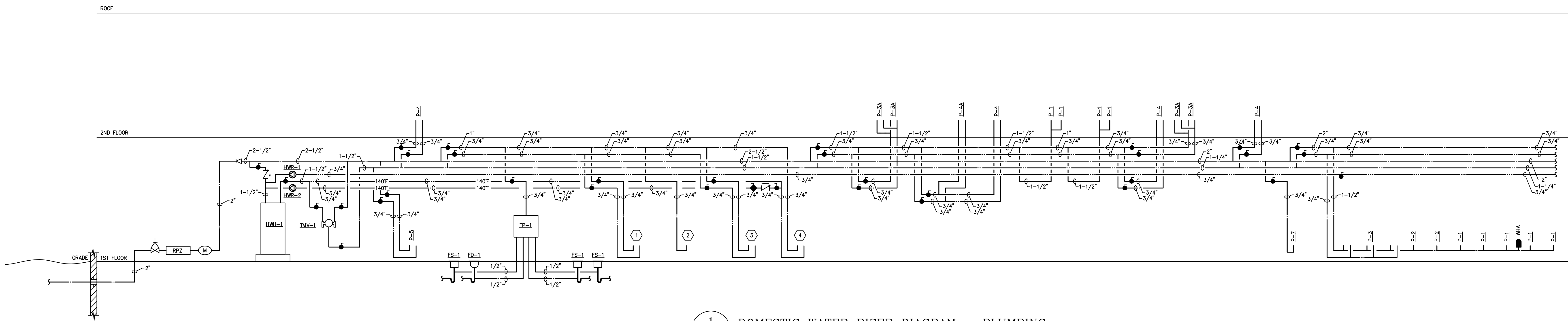
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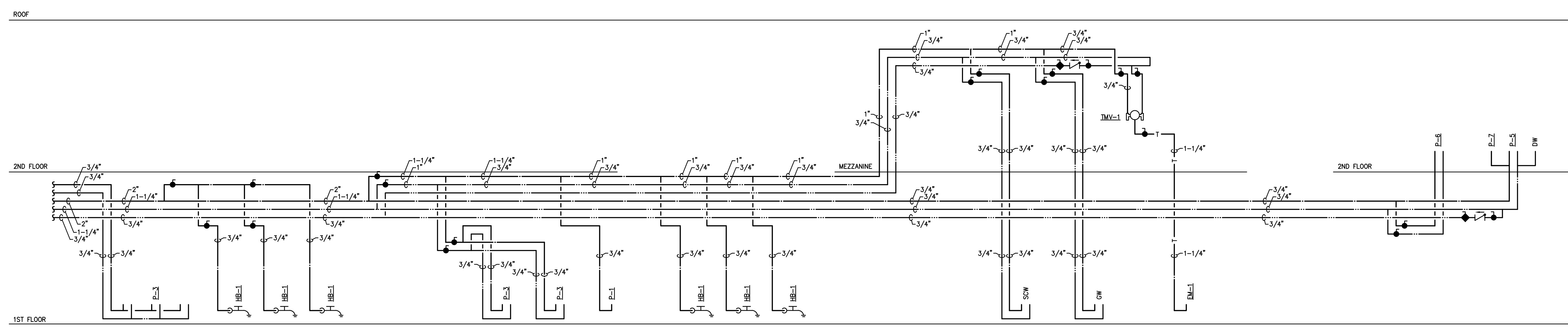
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ADDITION / RENOVATION
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17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: SCHEDULES & DETAILS - PLUMBING

DRAWING DATE:
01 JULY 2020
REVISION DATE:
DRAWN BY:
ACL
COMMISSION NO.
5475B

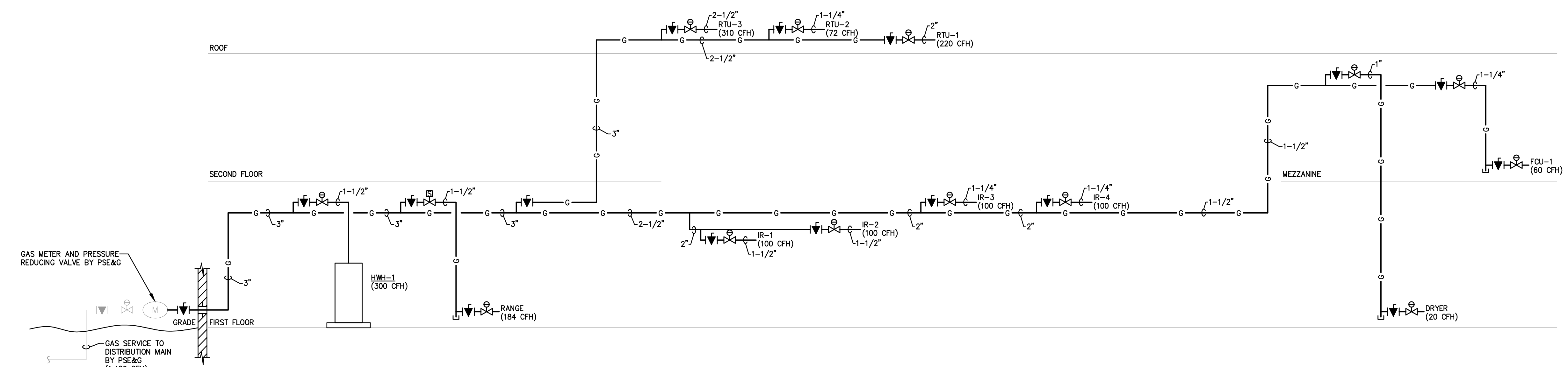
P7
8 OF 10



1 DOMESTIC WATER RISER DIAGRAM - PLUMBING
P8 NOT TO SCALE



2 DOMESTIC WATER RISER DIAGRAM - PLUMBING
P8 NOT TO SCALE

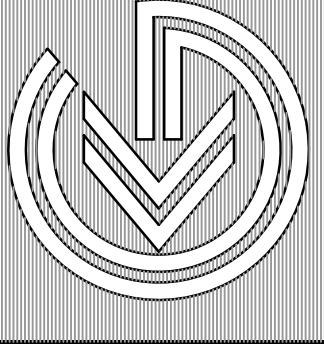


3 NATURAL GAS RISER DIAGRAM
P8 NOT TO SCALE

- NOTES:
- TOTAL DEVELOPED LENGTH OF GAS PIPING TO HWH-1 = 60'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO RANGE = 150'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO RTU-3 = 250'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO RTU-2 = 250'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO RTU-1 = 300'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO IR-1 = 350'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO IR-2 = 350'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO IR-3 = 300'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO IR-4 = 300'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO DRYER = 450'-0"
 - TOTAL DEVELOPED LENGTH OF GAS PIPING TO FCU-1 = 450'-0"
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF UNDERGROUND GAS PIPING WITH EXISTING UNDERGROUND UTILITIES. ALL UTILITIES SHALL BE MARKED OUT AS REQUIRED BY N.J.A.C. CALL BEFORE YOU DIG.
 - ALL GAS PRV'S SHALL BE EQUIMETER LOCK-UP TYPE APPROVED BY PSE&G. ALL VENTS SHALL BE EXTENDED OUTSIDE OF BUILDING AND PROVIDED WITH GOOSENECK AND INSECT SCREEN.
 - ALL EXPOSED NATURAL GAS PIPING SHALL BE PAINTED YELLOW WITH BLACK MARKING. FOR ADDITIONAL INFORMATION REFER TO WRITTEN SPECIFICATIONS.

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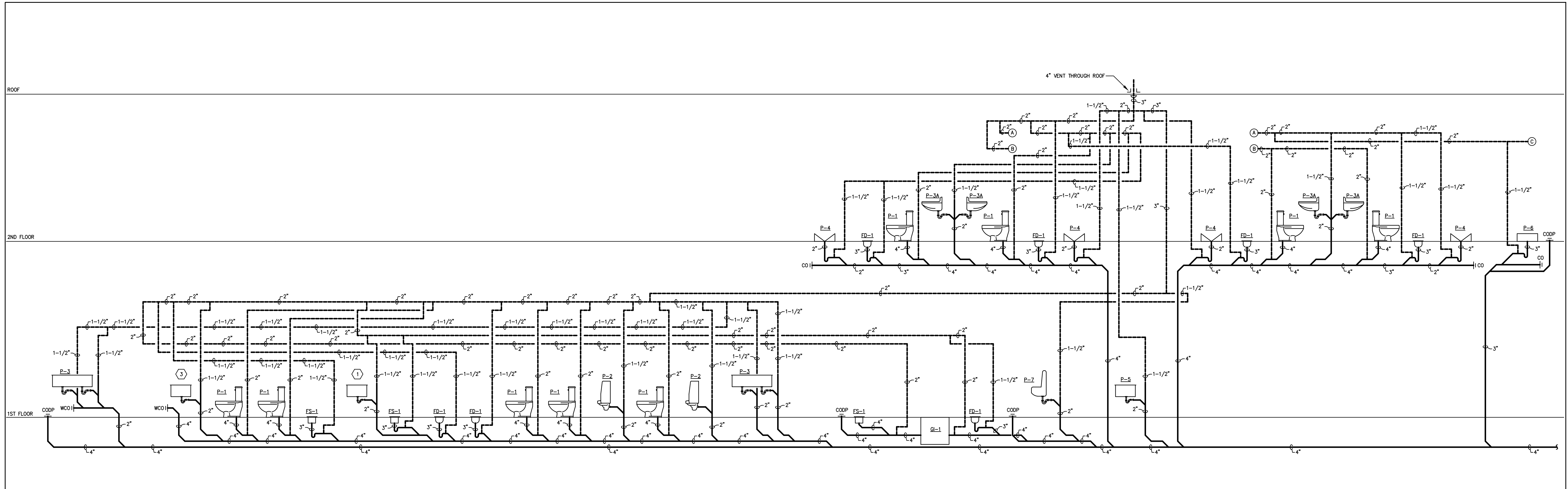


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 MOUNT HOLLY, NEW JERSEY
 TITLE: DOMESTIC WATER RISER DIAGRAMS - PLUMBING

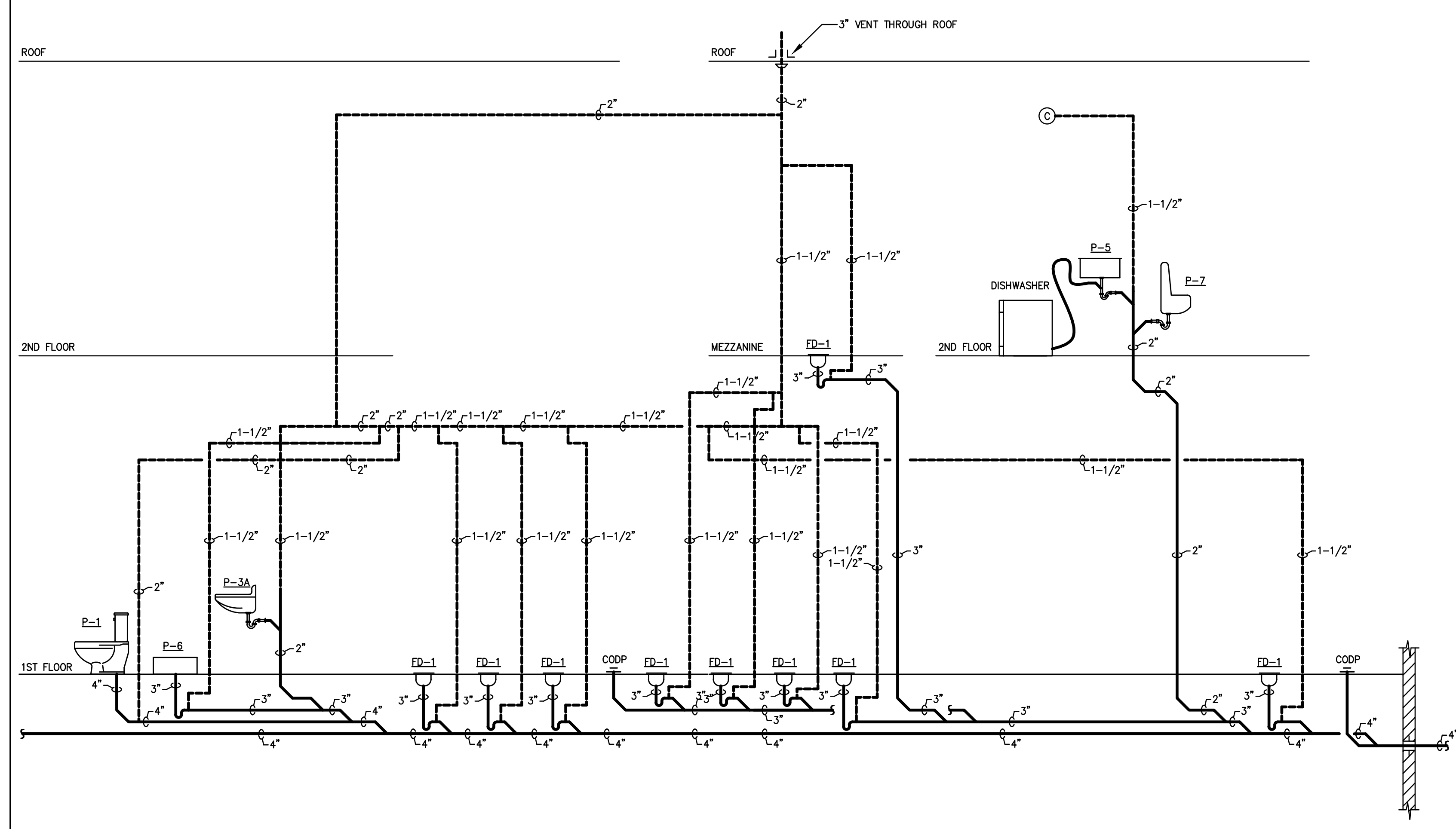
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REVISION DATE:	
DRAWN BY:	ACL
COMMISSION NO.:	5475B

P8

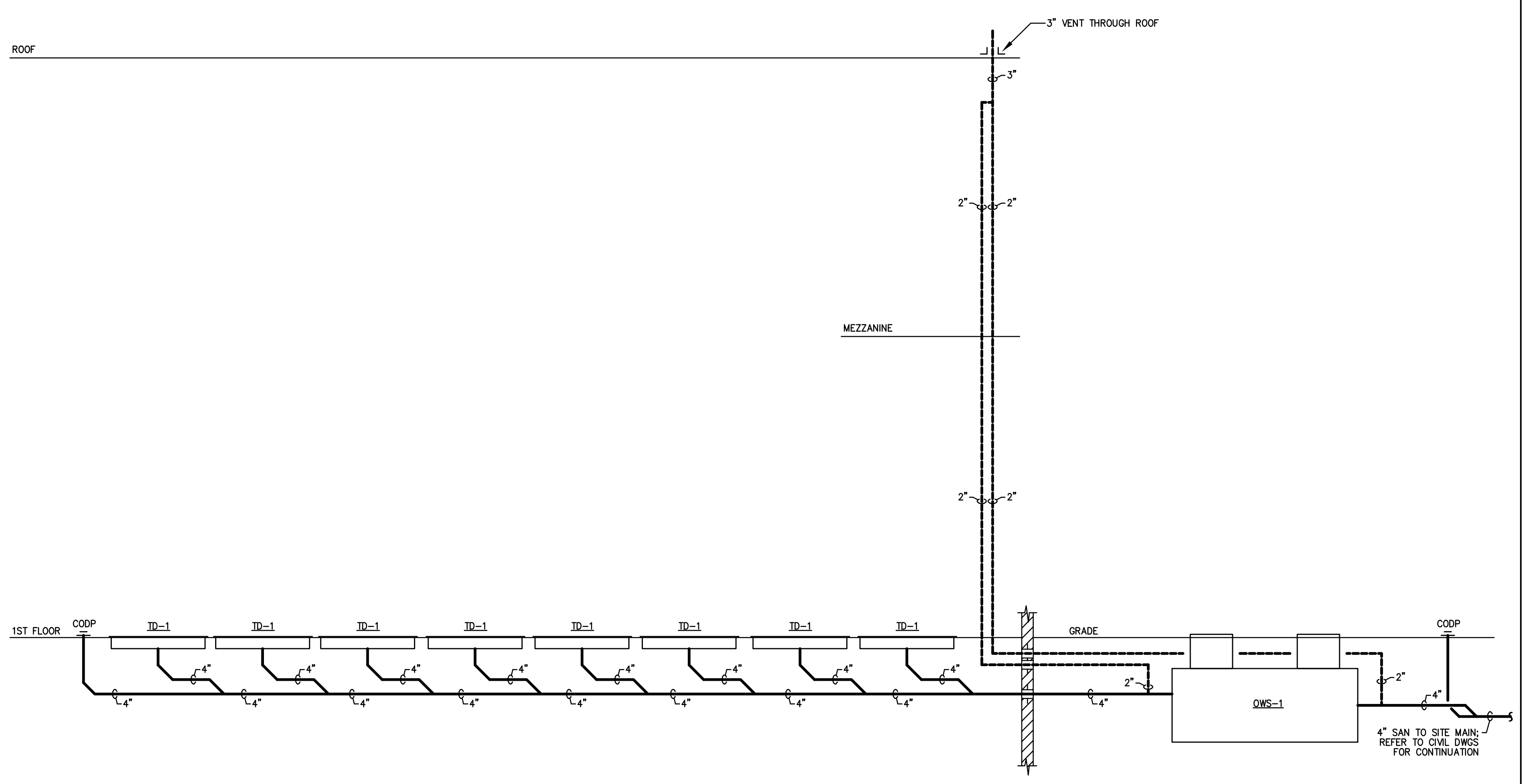
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 Drawing: 2020 PLUMB



1 SANITARY RISER DIAGRAM - PLUMBING
P8 NOT TO SCALE



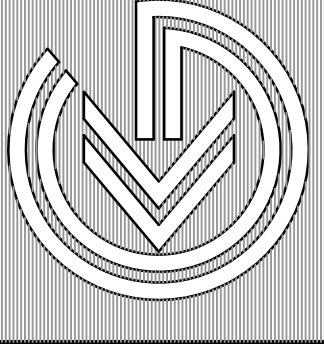
2 SANITARY RISER DIAGRAM - PLUMBING
P8 NOT TO SCALE



3 SANITARY RISER DIAGRAM - PLUMBING
P8 NOT TO SCALE

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Title: **Plumbing P.E.**
Professional Engineer
NJ 38606



RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: SANITARY RISER DIAGRAMS - PLUMBING

DRAWING DATE:
01 JULY 2020
REVISION DATE:

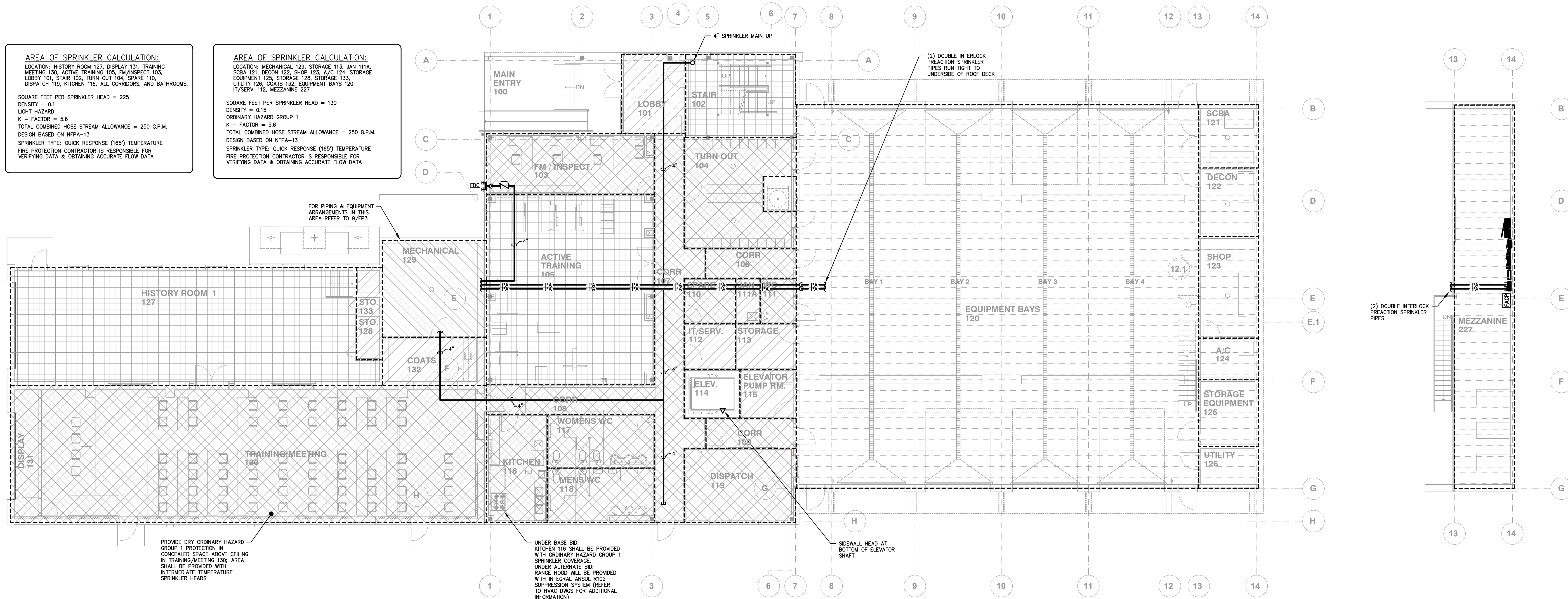
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COMMISSION NO.:
5475B

P9

August 26, 2020, 3:18:24 p.m.
Drawing: 2020 PLUMB

AREA OF SPRINKLER CALCULATION:
 LOCATION: HISTORY ROOM 127, DISPLAY 131, TRAINING MEETING 130, ACTIVE TRAINING 105, FM/INSPECT 103, LOBBY 101, STAIR 102, TURN OUT 104, SPARE 110, DISPATCH 119, KITCHEN 116, ALL CORRIDORS, AND BATHROOMS.
 SQUARE FEET PER SPRINKLER HEAD = 225
 DENSITY = 0.1
 LIGHT HAZARD
 K - FACTOR = 5.6
 TOTAL COMBINED HOSE STREAM ALLOWANCE = 250 G.P.M.
 DESIGN BASED ON NFPA-13
 SPRINKLER TYPE: QUICK RESPONSE (165°) TEMPERATURE
 FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR VERIFYING DATA & OBTAINING ACCURATE FLOW DATA

AREA OF SPRINKLER CALCULATION:
 LOCATION: MECHANICAL 129, STORAGE 113, JAN 111A, SCBA 121, DECON 122, SHEP 123, A/C 124, STORAGE EQUIPMENT 125, STORAGE 128, STORAGE 133, UTILITY 126, COATS 132, EQUIPMENT BAYS 120, IT/SERV. 112, MEZZANINE 227
 SQUARE FEET PER SPRINKLER HEAD = 130
 DENSITY = 0.15
 ORDINARY HAZARD GROUP 1
 K - FACTOR = 5.6
 TOTAL COMBINED HOSE STREAM ALLOWANCE = 250 G.P.M.
 DESIGN BASED ON NFPA-13
 SPRINKLER TYPE: QUICK RESPONSE (165°) TEMPERATURE
 FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR VERIFYING DATA & OBTAINING ACCURATE FLOW DATA



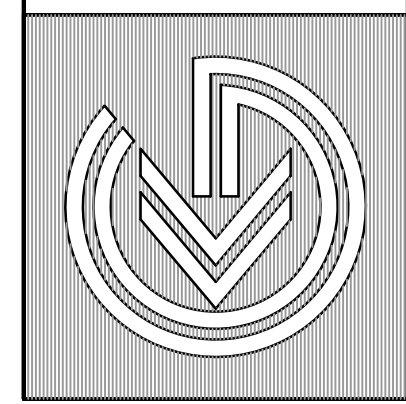
FIRE PROTECTION PROTECTION TYPE KEY					
ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION
	□	WET SYSTEM, LIGHT HAZARD, HUNG CEILING AREA, DRY HEADS		□	WET SYSTEM, ORDINARY HAZARD I, NO-CEILING AREA
	□	WET SYSTEM, LIGHT HAZARD, HUNG OR SOLID CEILING AREA		□	DRY SYSTEM, ORDINARY HAZARD I
	□	WET SYSTEM, LIGHT HAZARD, NO-CEILING AREA		□	WET SYSTEM, ORDINARY HAZARD I, HUNG CEILING AREA
	□	DRY SYSTEM, LIGHT HAZARD			

1
FP1 **FIRST FLOOR PLAN- FIRE PROTECTION**
 SCALE 1/8" = 1'-0"

- NOTES:**
- INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 - WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 - SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 - ALL PIPE SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS.
 - PROVIDE FDC WITH AUTOMATIC BALL DRIP PIPED TO OUTSIDE DRY WELL.
 - ALL EXPOSED FIRE PROTECTION PIPING SHALL BE PAINTED RED WITH WHITE MARKINGS. FOR ADDITIONAL INFORMATION REFER TO WRITTEN SPECIFICATIONS.

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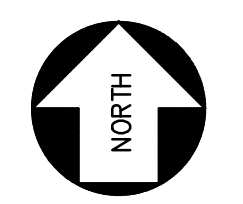


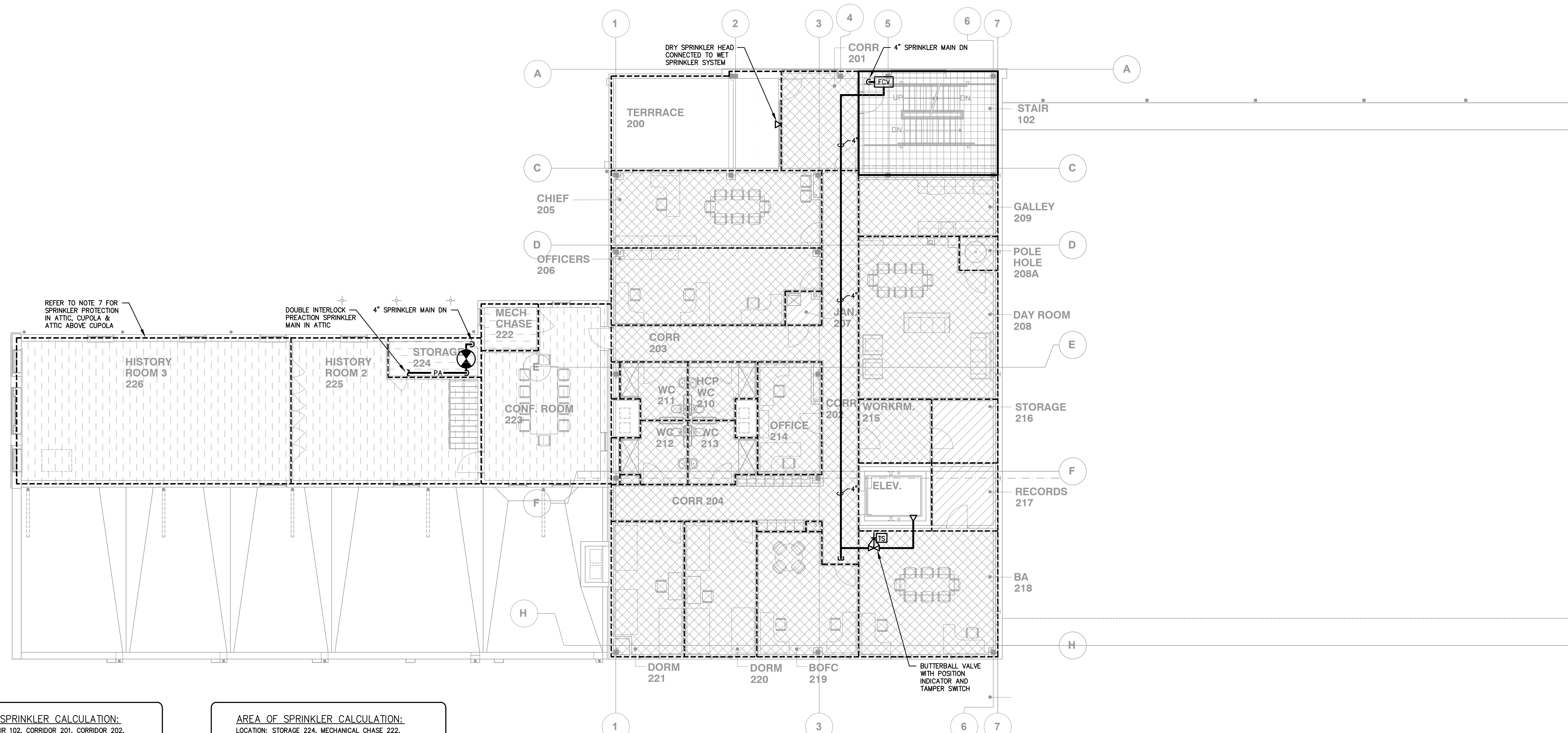
RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
 BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: FIRST FLOOR PLAN - FIRE PROTECTION

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	ACL
COMMISSION NO.:	5475B

FP1
 1 OF 3

August 26, 2020 10:00:19 a.m.
 Drawing: 2057 FP1.DWG





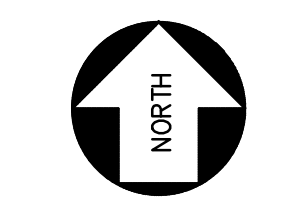
AREA OF SPRINKLER CALCULATION:
 LOCATION: STAIR 102, CORRIDOR 201, CORRIDOR 202, CORRIDOR 203, CORRIDOR 204, CHIEF 205, OFFICERS 206, DAY ROOM 208, GALLEY 209, HCP WC 210, WC 211, WC 212, WC 213, OFFICE 214, WORK ROOM 215, BA 218, BOFC 219, DORM 220, DORM 221, CONFERENCE RM 223, HISTORY RM 2 225 AND HISTORY RM 3 226.
 SQUARE FEET PER SPRINKLER HEAD = 225
 DENSITY = 0.1
 LIGHT HAZARD
 K - FACTOR = 5.6
 TOTAL COMBINED HOSE STREAM ALLOWANCE = 250 G.P.M.
 DESIGN BASED ON NFPA-13
 SPRINKLER TYPE: QUICK RESPONSE (165°) TEMPERATURE
 FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR VERIFYING DATA & OBTAINING ACCURATE FLOW DATA

AREA OF SPRINKLER CALCULATION:
 LOCATION: STORAGE 224, MECHANICAL CHASE 222, JAN. 207, STORAGE 216 AND RECORDS 217
 SQUARE FEET PER SPRINKLER HEAD = 130
 DENSITY = 0.15
 ORDINARY HAZARD GROUP 1
 K - FACTOR = 5.6
 TOTAL COMBINED HOSE STREAM ALLOWANCE = 250 G.P.M.
 DESIGN BASED ON NFPA-13
 SPRINKLER TYPE: QUICK RESPONSE (165°) TEMPERATURE
 FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR VERIFYING DATA & OBTAINING ACCURATE FLOW DATA

1 SECOND FLOOR PLAN - FIRE PROTECTION
 FP2 SCALE 1/8" = 1'-0"

- NOTES:**
1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPING WHERE PIPING CROSSES SEISMIC JOINTS, WHERE ADJACENT BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS AND WHERE PIPES TERMINATE WITH CONNECTIONS TO FIXTURES AND/OR EQUIPMENT THAT ARE ANCHORED TO DIFFERENT STRUCTURAL ELEMENTS FROM THE ONES SUPPORTING THE PIPING AS IT APPROACHES FIXTURES/EQUIPMENT.
 2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
 4. ALL PIPE SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS.
 5. ALL EXPOSED FIRE PROTECTION PIPING SHALL BE PAINTED RED WITH WHITE MARKINGS. FOR ADDITIONAL INFORMATION REFER TO WRITTEN SPECIFICATIONS.
 6. CONTRACTOR SHALL CLOSELY COORDINATE INSTALLATION OF SPRINKLER HEAD IN ALL AREAS CONTAINING HISTORIC METAL CEILING WITH LAYOUT OF HISTORIC METAL CEILING TO PROVIDE UNIFORM AND SYMMETRICAL APPEARANCE TO COMPLEMENT AESTHETIC OF CEILING PATTERN. PROVIDE ADDITIONAL HEADS BEYOND THAT REQUIRED TO ACHIEVE NECESSARY COVERAGE IF REQUIRED. SUBMIT PROPOSED LAYOUT DRAWINGS SHOWING COORDINATION WITH PATTERN OF HISTORIC METAL CEILING TO ARCHITECT & ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 7. ATTIC, CUPOLA, AND CUPOLA ATTIC SHALL BE PROTECTED BY DOUBLE-INTERLOCK PREACTION SYSTEM(S). NUMBER OF SYSTEMS, SYSTEM LOCATIONS, AND SYSTEM ZONING TO BE DETERMINED BY HYDRAULIC DESIGN.

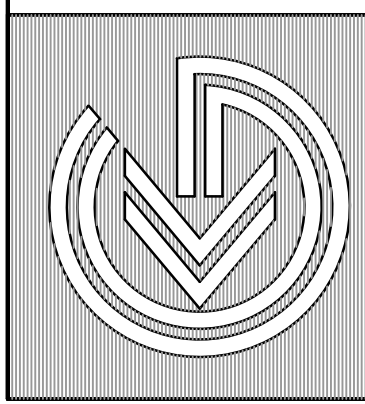
FIRE PROTECTION PROTECTION TYPE KEY					
ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION
		WET SYSTEM, LIGHT HAZARD, HUNG CEILING AREA, DRY HEADS			WET SYSTEM, ORDINARY HAZARD I, NO-CEILING AREA
		WET SYSTEM, LIGHT HAZARD, HUNG OR SOLID CEILING AREA			DRY SYSTEM, ORDINARY HAZARD I
		WET SYSTEM, LIGHT HAZARD, NO-CEILING AREA			WET SYSTEM, ORDINARY HAZARD I, HUNG CEILING AREA
		DRY SYSTEM, LIGHT HAZARD			



August 26, 2020 10:01:42 a.m.
 Drawing: 2057 FP.DWG

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RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
 BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: SECOND FLOOR PLAN - FIRE PROTECTION

DRAWING DATE:
 01 JULY 2020

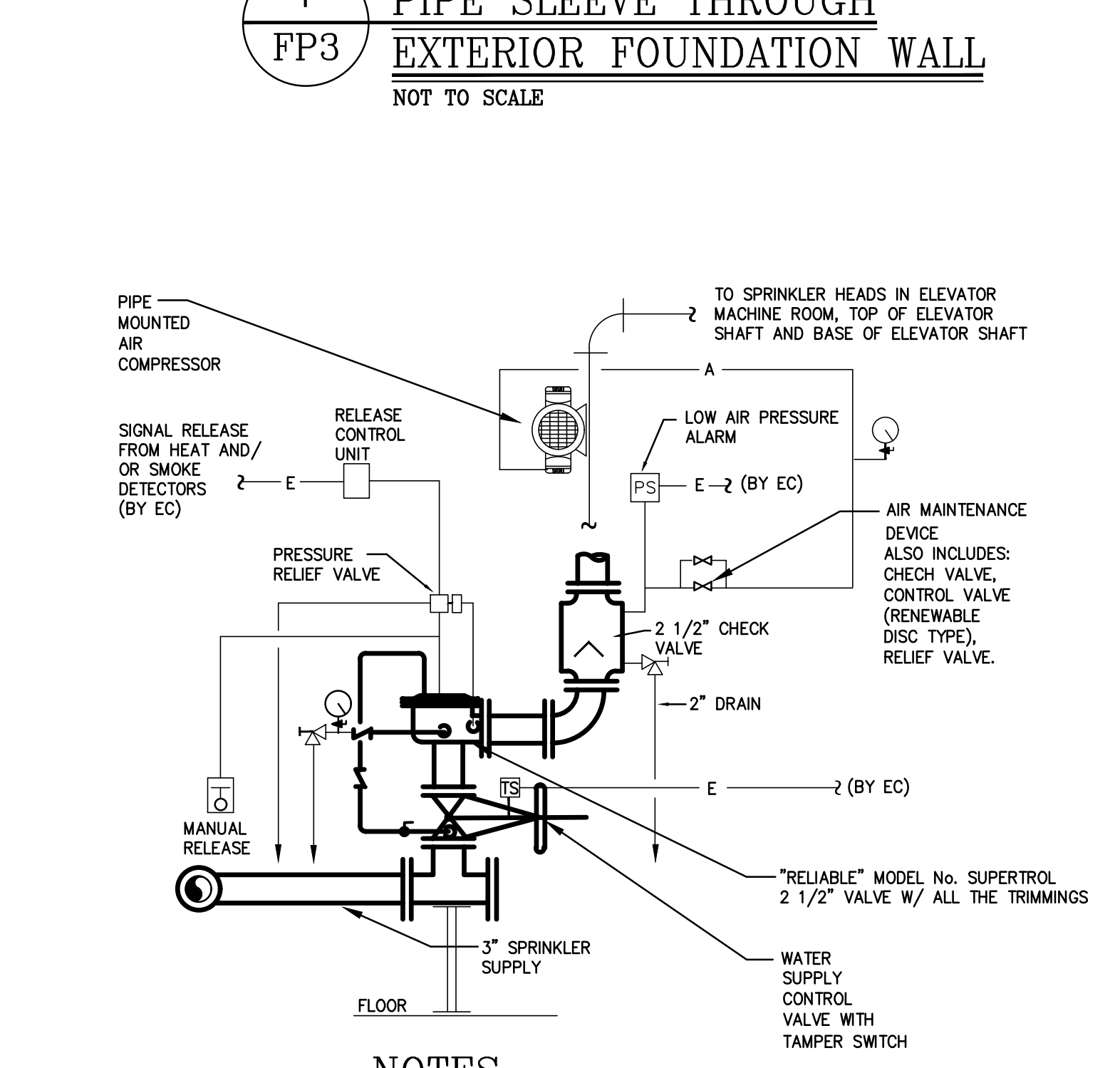
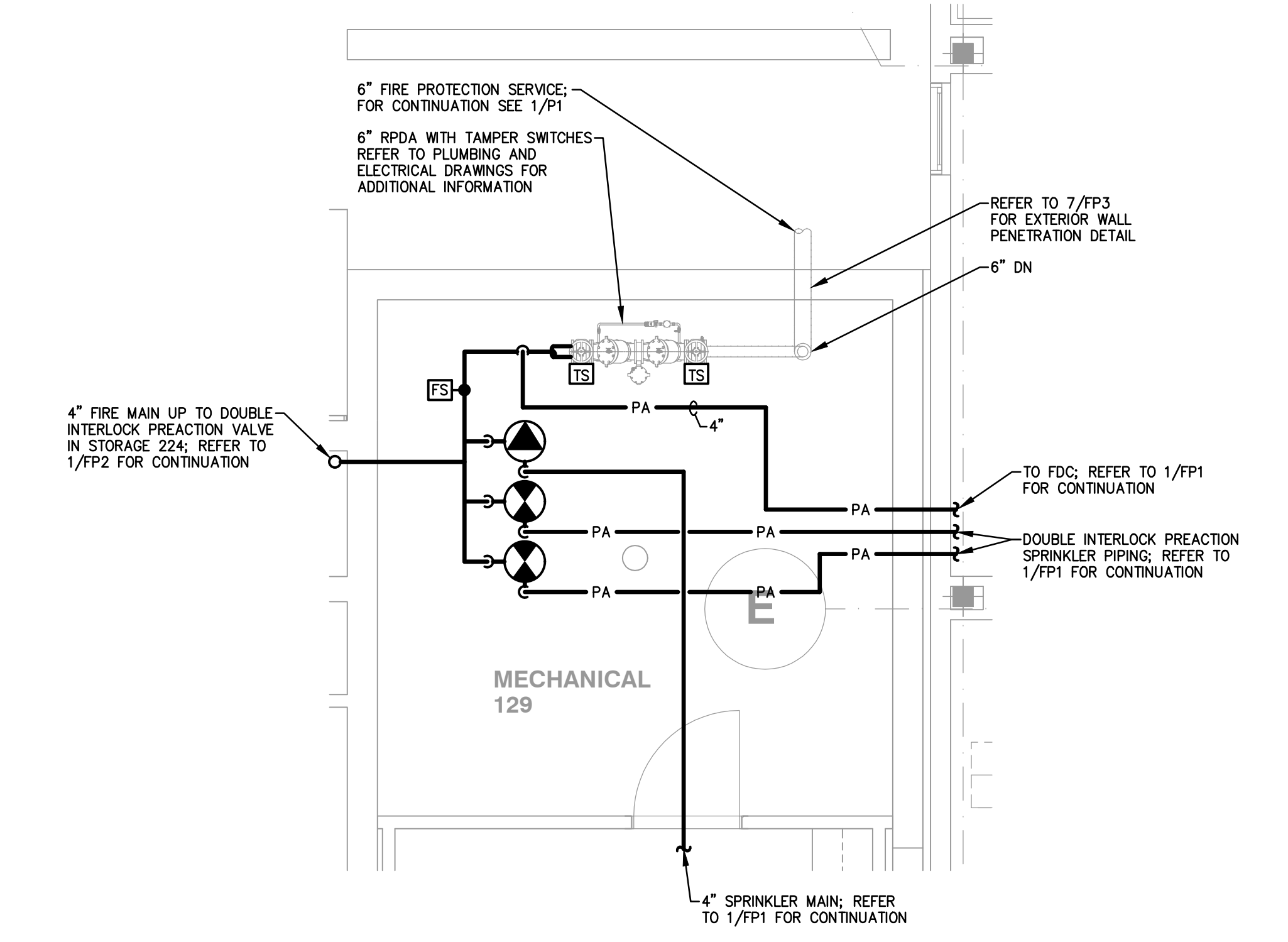
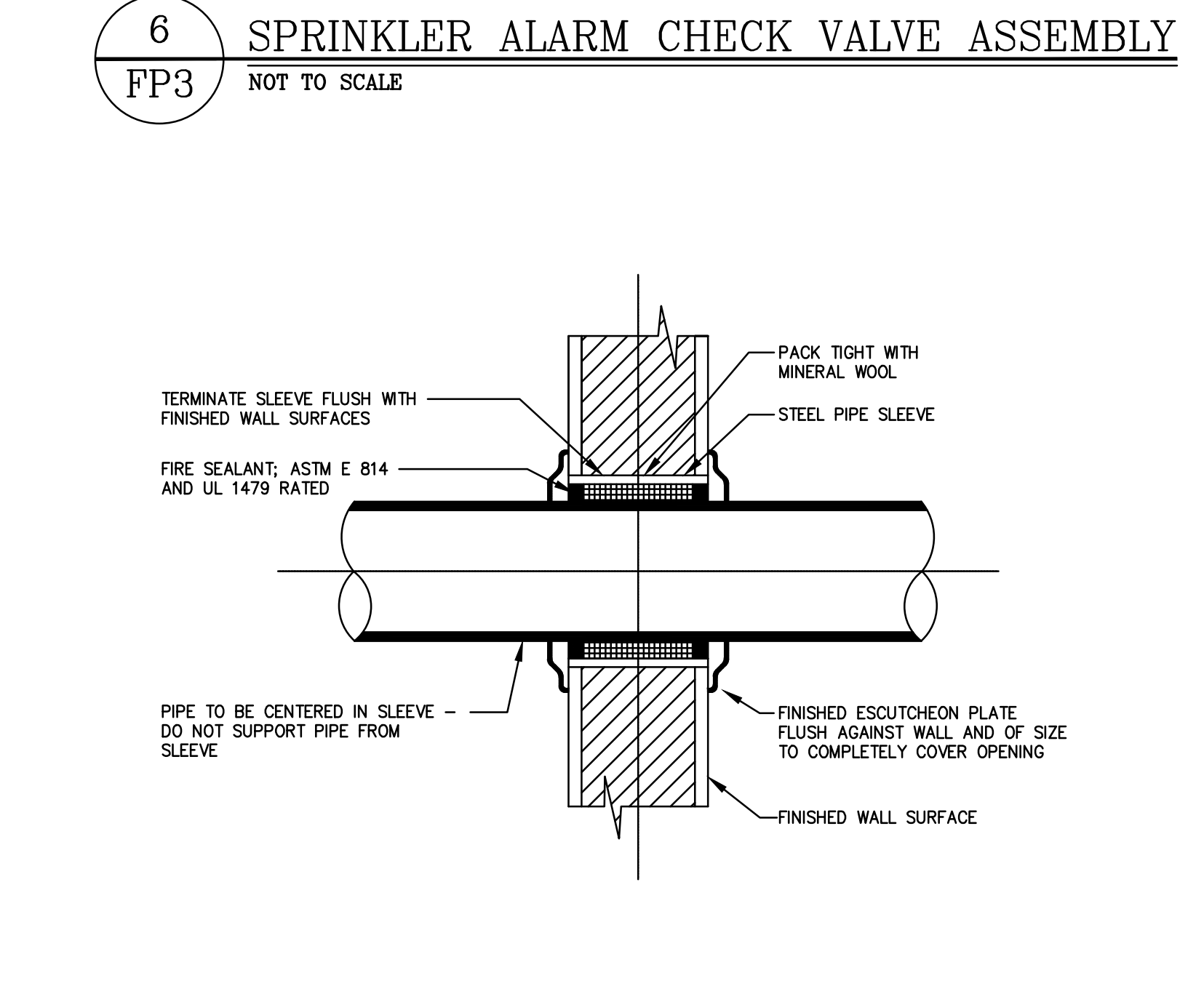
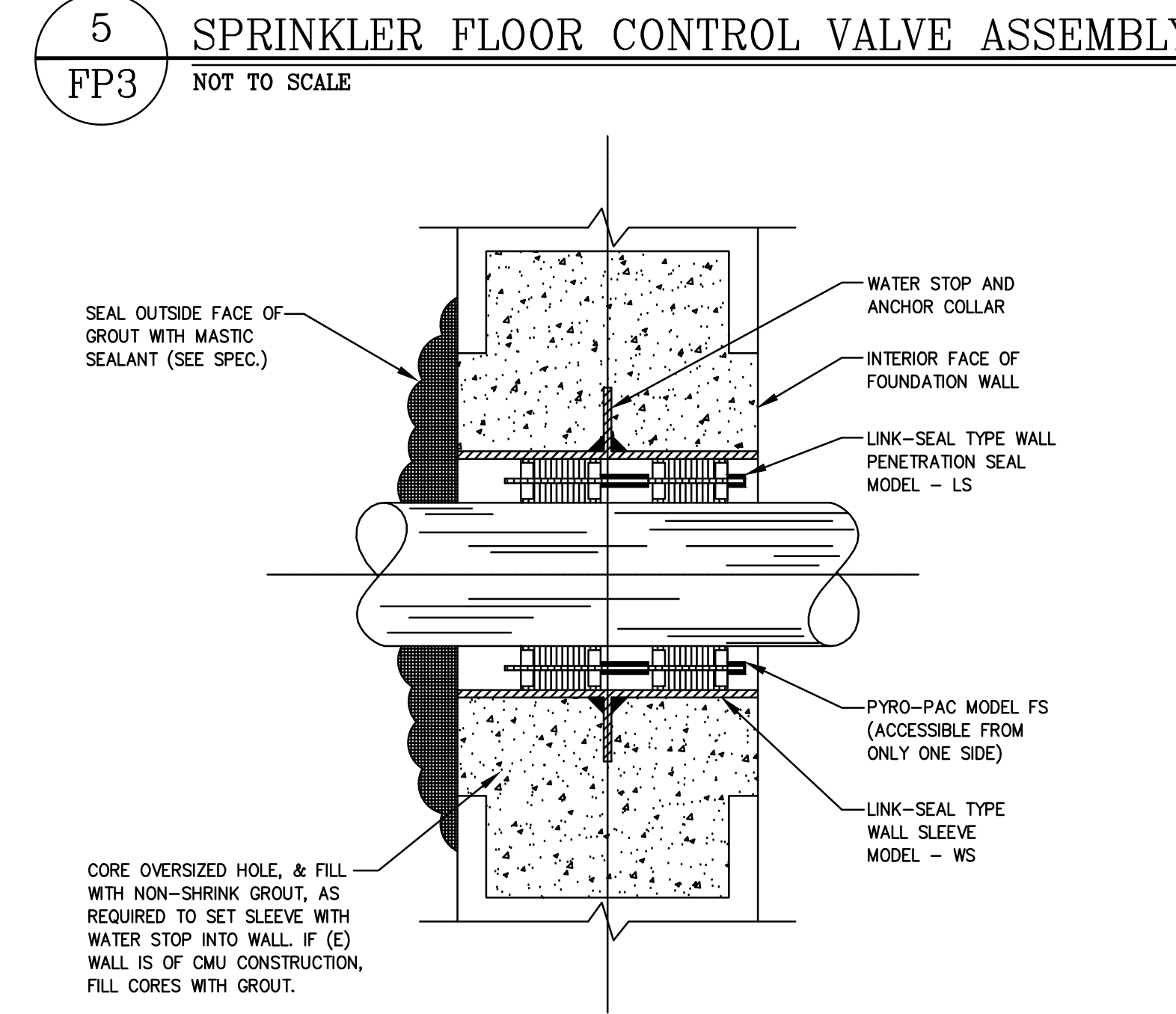
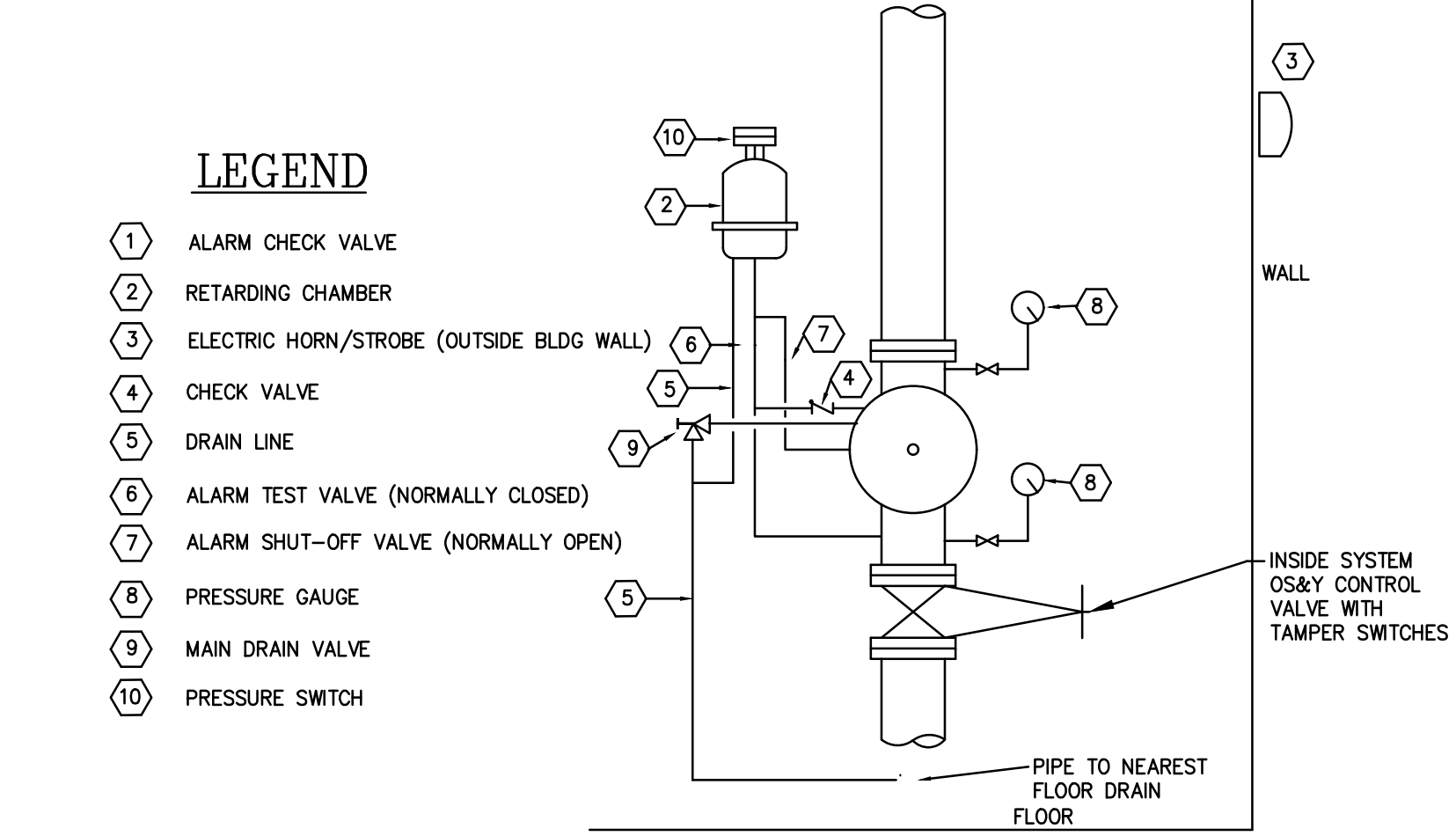
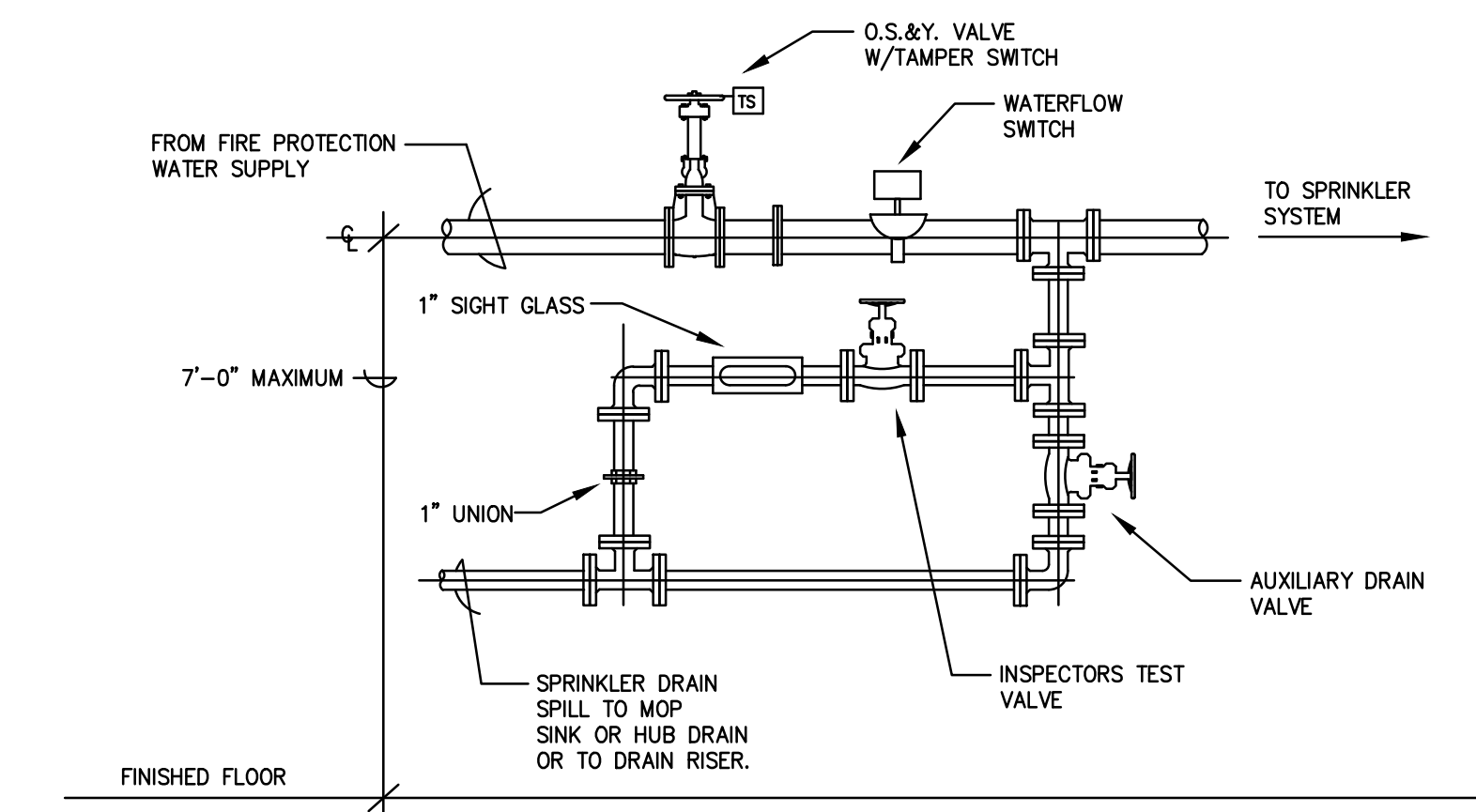
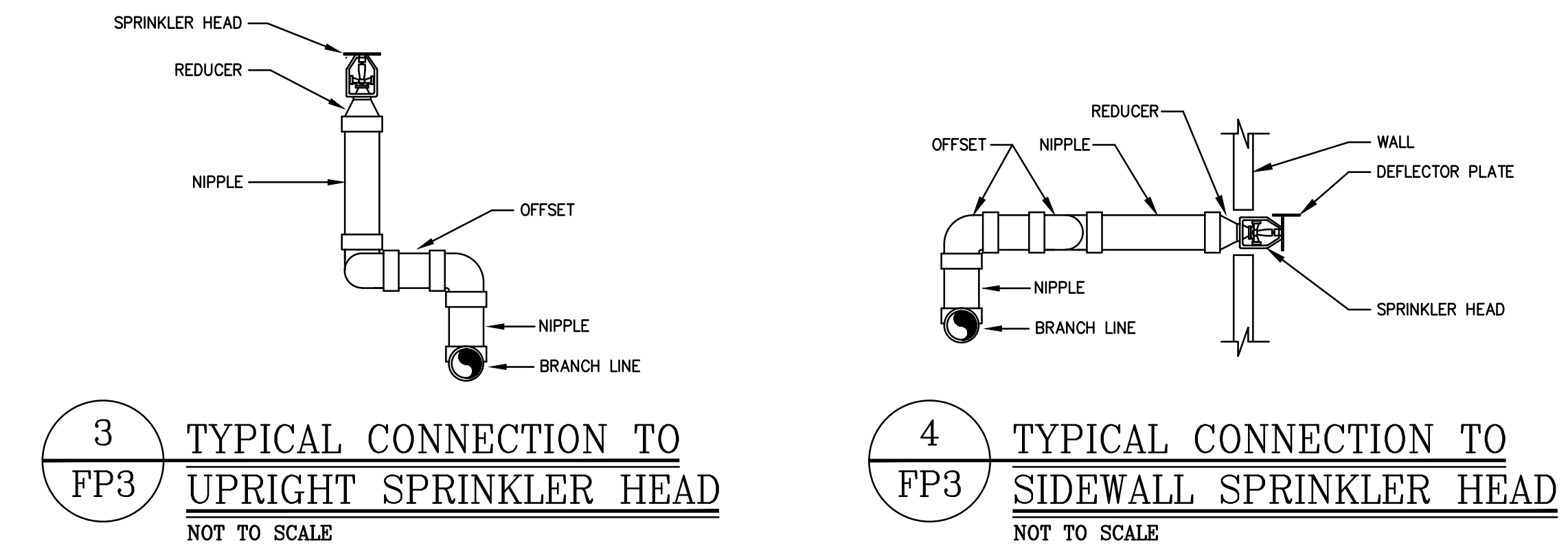
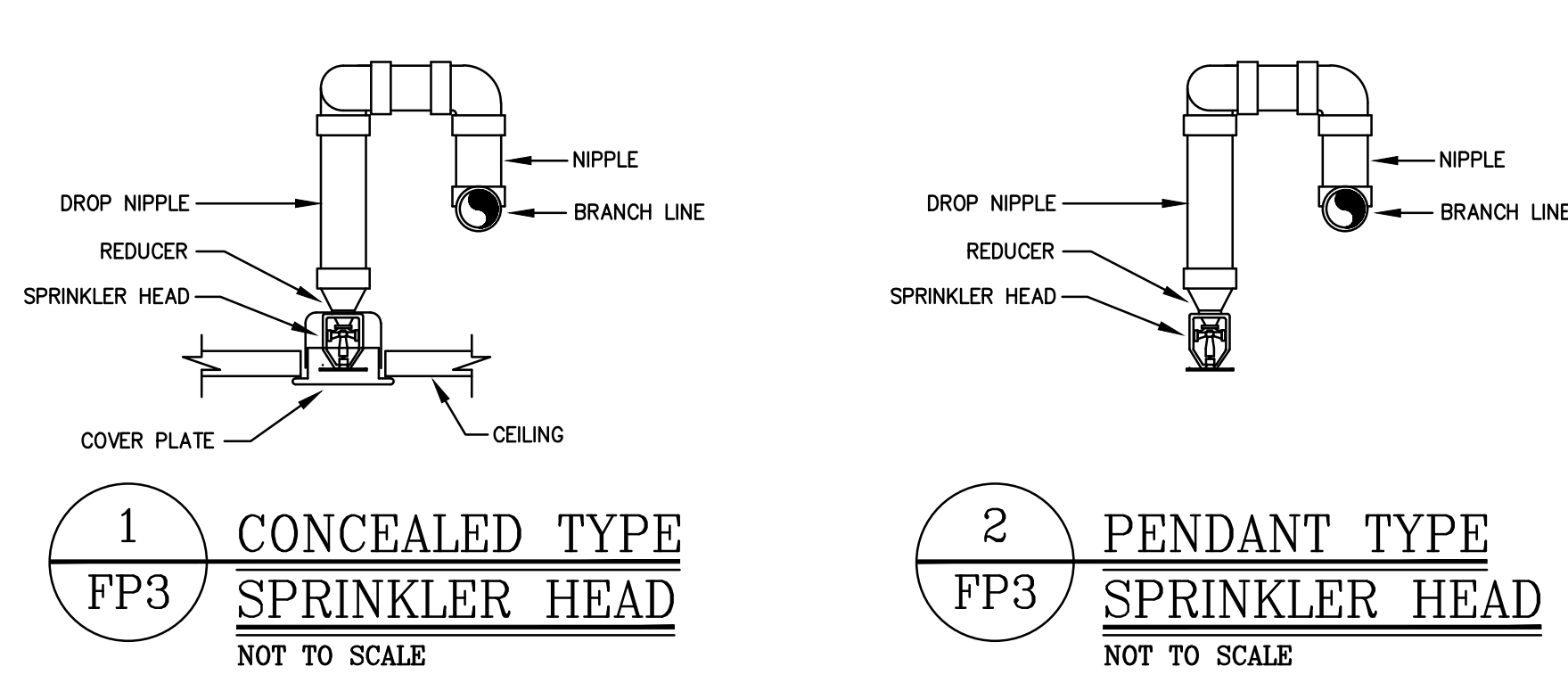
REVISION DATE:

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 COMMISSION NO:
5475B

FP2

FIRE PROTECTION SYMBOL LIST					
ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION
	●	CONCEALED TYPE SPRINKLER HEAD	PG	○	PRESSURE GAUGE
	○	PENDANT TYPE SPRINKLER HEAD	FC	— —	FLEXIBLE CONNECTION
	○	UPRIGHT TYPE SPRINKLER HEAD		— —	BRANCH - TOP CONNECTION
	▷	SIDEWALL (DRY TYPE) SPRINKLER HEAD		— —	BRANCH - BOTTOM CONNECTION
	○	DRY TYPE SPRINKLER HEAD		— —	
SP	—	SPRINKLER PIPING	PS	□	PRESSURE SWITCH
	—	PIPING DROP	TS	□	TAMPER SWITCH
	—	PIPING RISE	WFS	□	WATER FLOW SWITCH
CO	—	CAPPED OUTLET	FV	□	FLOOR CONTROL VALVE ASSEMBLY
BV	—	BALL VALVE	FCV	□	FLOOR CONTROL VALVE ASSEMBLY
RVCV	—	RISER CONTROL VALVE	ZCV	□	ZONE CONTROL VALVE ASSEMBLY
ABD	—	FIRE DEPARTMENT SIAMSE CONNECTION AUTOMATIC BALL DRIP & CHECK VALVE	RPDA	□	REDUCED PRESSURE ZONE DETECTOR ASSEMBLY
O.S.&Y.	—	OUTSIDE STEM & YOKE VALVE WITH TAMPER SWITCH	FDC	—	WALL MOUNTED FIRE DEPARTMENT SIAMSE CONNECTION
ACV	—	ALARM CHECK VALVE (WITH ALL RELATED APPURTENANCES)	AV	—	ANGLE VALVE
PAV	—	PRE-ACTION VALVE (WITH ALL RELATED APPURTENANCES)	CV	—	CHECK VALVE
	—	WET SYSTEM, LIGHT HAZARD, HUNG CEILING AREA, DRY HEADS		—	WET SYSTEM, LIGHT HAZARD, HUNG OR SOLID CEILING AREA
	—	WET SYSTEM, ORDINARY HAZARD I, HUNG CEILING AREA		—	WET SYSTEM, LIGHT HAZARD, NO-CEILING AREA
PA	—	PREACTION SPRINKLER PIPING		—	WET SYSTEM, ORDINARY HAZARD I, NO-CEILING AREA
					DRY SYSTEM, ORDINARY HAZARD I
					DRY SYSTEM, LIGHT HAZARD

FIRE PROTECTION ABBREVIATIONS	
AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
BLDG	BUILDING
DN.	DOWN
DWG.	DRAWING
(E)	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
GPM	GALLONS PER MINUTE
NC	NORMALLY CLOSED (VALVE)
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PSI	POUNDS PER SQUARE INCH
TYP.	TYPICAL
W/	WITH
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT

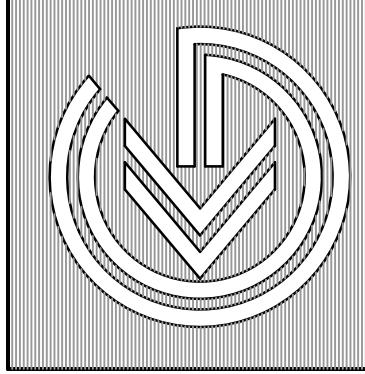


NOTES

WIRING FROM RELEASE CONTROL UNIT, TAMPER SWITCH AND LOW AIR ALARM TO FIRE ALARM PANEL BY ELECTRICAL CONTRACTOR (EC). POWER WIRING TO AIR COMPRESSOR BY EC.

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RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: FIRST FLOOR PLAN - FIRE PROTECTION

DRAWING DATE:
01 JULY 2020

REVISION DATE:

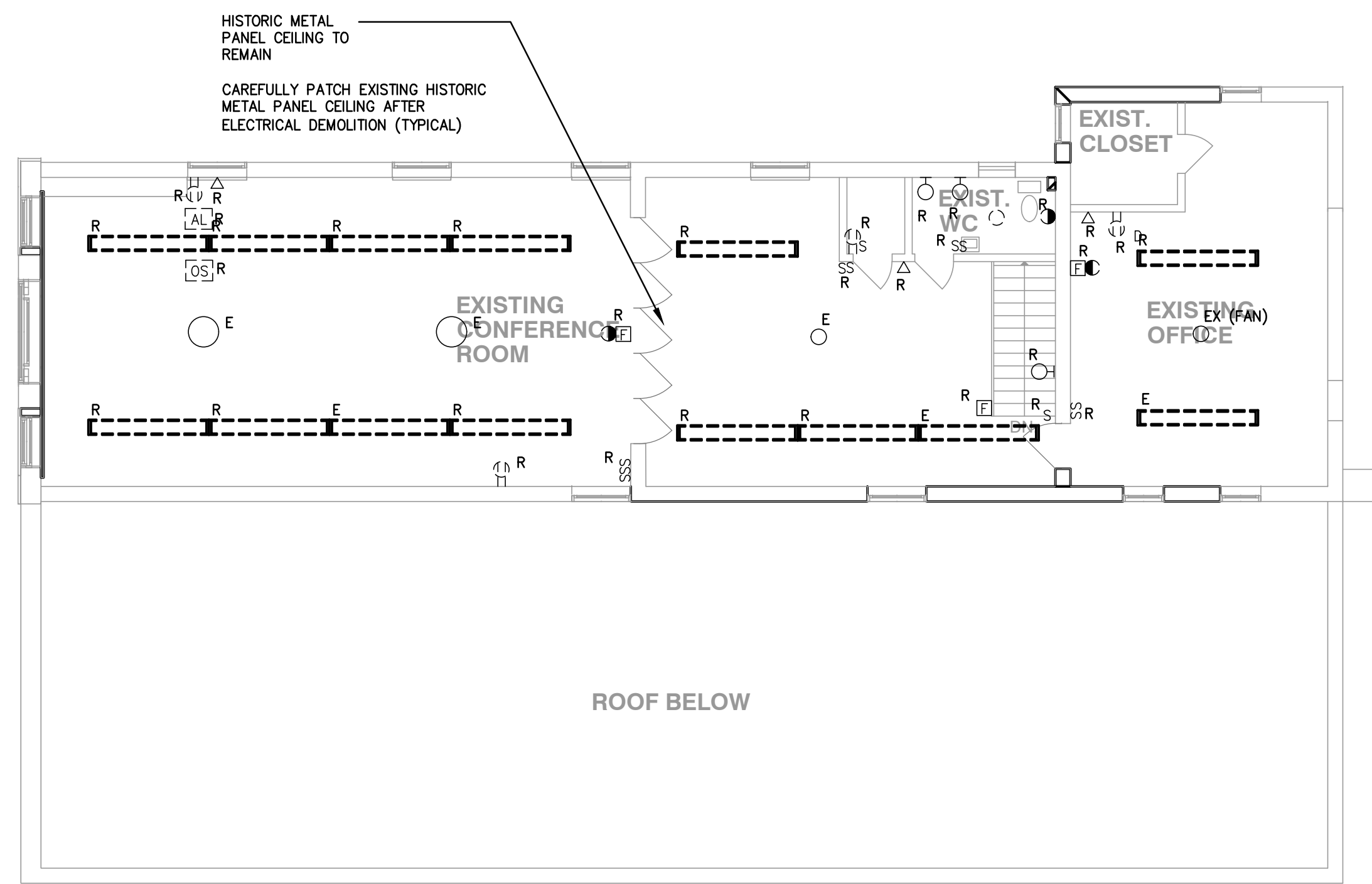
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FP3

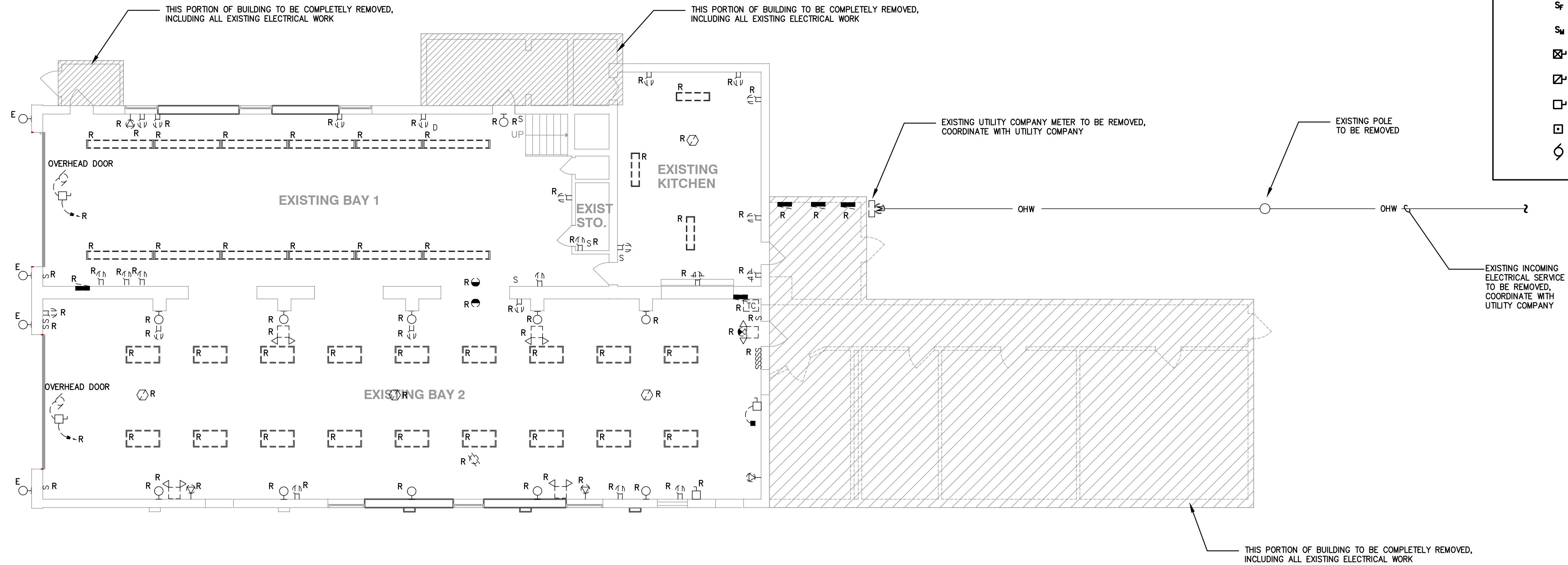
3 OF 3

August 26, 2020 10:02:18 a.m.
Drawing: 2057 FP3.DWG



2 SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
 ED1 SCALE 1/8" = 1'-0"

NOTE:
 1. DEMOLISH ALL ABANDONED JUNCTION BOXES, PANELS, SWITCHES, ETC. AND PATCH WALLS TO MATCH ADJACENT CONDITIONS AND FINISHES. ALL OLD WIRING MUST BE REMOVED.



1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
 ED1 SCALE 1/8" = 1'-0"

NOTE:
 1. DEMOLISH ALL ABANDONED JUNCTION BOXES, PANELS, SWITCHES, ETC. AND PATCH WALLS TO MATCH ADJACENT CONDITIONS AND FINISHES. ALL OLD WIRING MUST BE REMOVED.

DEMOLITION NOTES:

- THESE DEMOLITION PLANS ARE INTENDED TO BE USED AS A GUIDE TO THE CONTRACTOR. ALL DEMOLITION WORK REQUIRED OR NECESSARY FOR THE INSTALLATION OF NEW WORK OR THE REMOVAL OF EXISTING EQUIPMENT, IS HEREBY INCLUDED, WHETHER SHOWN ON THESE PLANS OR NOT. REFER TO DRAWINGS OF ALL TRADES FOR ADDITIONAL WORK, AND COORDINATE IN THE FIELD.
- THE CONTRACTOR SHALL VERIFY ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING HIS BID. THE CONTRACTOR SHALL INCLUDE ALL DEMOLITION WORK NECESSARY FOR THE EFFECTIVE INSTALLATION AND PERFORMANCE OF NEW SYSTEMS. THE CONTRACTOR SHALL ALSO INCLUDE TEMPORARY REMOVAL AND REINSTALLATION OF EXISTING WORK WHEREVER NECESSARY. THE OWNER SHALL NOT ACCEPT EXTRA COSTS ASSOCIATED WITH THE DEMOLITION AND/OR TEMPORARY REMOVAL/REINSTALLATION WORK FROM THE CONTRACTOR.
- THIS CONTRACTOR SHALL REMOVE ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON THE DEMOLITION PLANS, OR THAT ARE NO LONGER NEEDED BY THE OWNER. ALL EXISTING WIRING AND CONDUIT WHERE NO LONGER REQUIRED SHALL BE REMOVED BACK TO EXISTING PANEL. ALL EXISTING DISCONNECTED CIRCUITS NOT BEING REUSED SHALL BE TURNED OFF AND LABELED "SPARE". WHERE CONDUITS ARE INACCESSIBLE, REMOVE WIRE AND ABANDON CONDUITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY POWER IS BEING PROVIDED TO ALL EXISTING EQUIPMENT REQUIRED TO REMAIN IN SERVICE. RECONNECT ALL DISTURBED FACILITIES WHICH ARE EXISTING TO REMAIN AND PLACE THEM IN OPERATIONAL CONDITION.
- REMOVE ALL WIRING DEVICES FROM WALLS TO BE DEMOLISHED. REMOVE EXISTING LIGHT SWITCHES WHERE NO LONGER REQUIRED. REUSE ALL EXISTING CONCEALED CONDUIT AND RECESSED DEVICE BOXES WHERE POSSIBLE. ABANDON BOXES IF THEY ARE IN EXISTING WALLS TO REMAIN. PATCH WALLS OVER ABANDONED BOXES TO MATCH ADJACENT SURFACES.
- REMOVE ABANDONED OUTLET BOXES, SURFACE METAL RACEWAY AND CONDUIT THAT WOULD BE EXPOSED, AND REPAIR DISTURBED SURFACES TO MATCH ADJACENT AREAS.
- MAJOR PIECES OF EQUIPMENT ARE TO BE TURNED OVER TO THE OWNER FOR HIS USE, OR AT THE OWNER'S DISCRETION, REMOVED FROM THE SITE AND DISPOSED OF, IF NO LONGER REQUIRED.
- PATCH ALL WALLS TIGHT AT REMOVALS. MAINTAIN FIRE RATINGS AS REQUIRED.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF WALL FINISHES AND CEILINGS TO BE REPLACED. ALL EXISTING DEVICES TO REMAIN SHALL BE TEMPORARILY DISCONNECTED AND REINSTALLED, WHERE TEMPORARY REMOVAL IS NOT POSSIBLE THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF EXISTING EQUIPMENT IN PLACE.
- THE EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION. PROVIDE TEMPORARY SUPPORT OF EXISTING DEVICES AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE FIRE MARSHAL UPON ANY MODIFICATIONS TO OR ANY NECESSARY INTERRUPTION IN SYSTEM OPERATION. NOTE THAT COVERING DEVICES DURING CONSTRUCTION IS AN INTERRUPTION TO COVERAGE.

SYMBOL LIST & ABBREVIATIONS

	LIGHT FIXTURE - REFER TO LIGHTING FIXTURE SCHEDULE		208/120V PANELBOARD
	UNSWITCHED NIGHT LIGHT FIXTURE		FIRE ALARM CONTROL PANEL
	EXIT SIGN - REFER TO LIGHTING FIXTURE SCHEDULE		FIRE ALARM REMOTE ANNUNCIATOR PANEL
	OCCUPANCY SENSOR - LETTER DENOTES TYPE OF SENSOR TO BE INSTALLED. WATTSTOPPER OR APPROVED EQUAL. DT = DT-300 DUAL TECHNOLOGY SENSOR CI = CI-300, CI1 = CI-355 PASSIVE INFRARED SENSOR CX = CX-100 WALL MOUNTED PASSIVE INFRARED SENSOR PW = PW-100 PASSIVE INFRARED WALL SWITCH SENSOR UT = UT-2250 ULTRASONIC SENSOR UT1 = UT-355 ULTRASONIC SENSOR TS1 = TS-400 TIME SWITCH		FIRE ALARM AUDIO/VISUAL DEVICE
	POWER SUPPLY		FIRE ALARM VISUAL DEVICE
	POWER PACK TRANSFORMER AND RELAY, OUTPUT RELAYS RATED 20A BALLAST OR INCANDESCENT, PROVIDE QUANTITY OF RELAYS AS REQUIRED, REFER TO AUTOMATIC LIGHTING CONTROL NOTES		FIRE ALARM MANUAL PULL STATION
	EMERGENCY LIGHTING CONTROL RELAY WATTSTOPPER ELCU-200, SEE WATTSTOPPER DWG 61-510		FIRE ALARM HEAT DETECTOR (RATE OF RISE)
	DUPLEX RECEPTACLE, 20A, 125V, 2 POLE, 3 WIRE, GROUNDED GF I INDICATES GROUND FAULT INTERRUPTION, TR INDICATES TAMPER-RESISTANT WITH UL LISTED TAMPER-RESISTANT SHUTTER, TV INDICATES MOUNTED HIGH FOR TELEVISION, SEE ARCHITECTURAL DRAWINGS CP INDICATES CONDENSATE PUMP RECEPTACLE		FIRE ALARM HEAT DETECTOR (FIXED TEMPERATURE)
	DOUBLE DUPLEX RECEPTACLE (QUAD)		FIRE ALARM HEAT DETECTOR (ABOVE CEILING)
	CEILING MOUNTED RECEPTACLE OR INDICATES COORD REEL		FIRE ALARM COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
	SPECIAL PURPOSE RECEPTACLE, TYPE AS NOTED, COORDINATE WITH WITH EQUIPMENT VENDOR IN FIELD		FIRE ALARM DUCT MOUNTED SMOKE DETECTOR WITH REMOTE INDICATING LIGHT AND TEST KEY SWITCH
	SINGLE RECEPTACLE, EWC INDICATES ELECTRIC WATER COOLER		WATER FLOW SWITCH
	DUAL SERVICE FLOOR BOX, TYPE WIREMOLD EVOLUTION SERIES OR APPROVED EQUAL PROVIDE WITH (2) DUPLEX 125A RECEPTABLES, AND (2) RJ45 JACKS		TAMPER SWITCH
	SINGLE POLE SWITCH		TIMECLOCK
	THREE WAY SWITCH		WIRE & CONDUIT, CONCEALED IN CEILING OR WALL
	FOUR WAY SWITCH		WIRE & CONDUIT, BELOW SLAB
	DIMMING SWITCH		WIRE & CONDUIT, HOMERUN TO PANEL
	FAN SWITCH WITH LIGHT AND FAN CONTROL		CONNECTION TO EQUIPMENT
	MANUAL MOTOR STARTER		AIR CONDITIONING
	COMBINATION STARTER CIRCUIT BREAKER		CONDENSING UNIT
	FUSED DISCONNECT SWITCH		EXISTING TO REMAIN
	UNFUSED DISCONNECT SWITCH		EXHAUST FAN
	FIRE TRUCK BAY DOOR OPERATOR		ELECTRICAL PRIMARY
	MOTOR		ELECTRICAL SECONDARY
			FAN COIL UNIT
			INFRARED
			OVERHEAD WIRING
			EXISTING TO BE REMOVED
			TELEPHONE
			VARIABLE AIR VOLUME BOX
			WEATHERPROOF

TEMPORARY SERVICE NOTES:

- CONTRACTOR TO PROVIDE TEMPORARY ELECTRICAL SERVICE AND LIGHTING AS REQUIRED THROUGHOUT CONSTRUCTION.
- PROVIDE NEW PANEL "RLP1" AND PLACE ON TEMPORARY SERVICE PRIOR TO DEMOLISHING EXISTING ELECTRICAL SERVICE. SWING OVER ALL EXISTING CIRCUITING IN PORTION OF BUILDING NOT BEING DEMOLISHED AS REQUIRED TO KEEP FIREHOUSE IN OPERATION THROUGHOUT CONSTRUCTION.
- PLACE PANEL "RLP1" ONTO NEW SERVICE AFTER CONSTRUCTION OF ADDITION IS COMPLETE.

GENERAL NOTE:

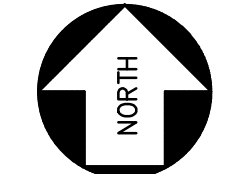
- REFER TO SPECIFICATIONS FOR LISTING OF APPROVED MANUFACTURERS.
- THE EXACT LOCATIONS OF ALL RECEPTABLES, VOICE/DATA OUTLETS AND TV OUTLETS SHALL BE COORDINATED WITH DRAWING A2.4 AND FIELD VERIFIED WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

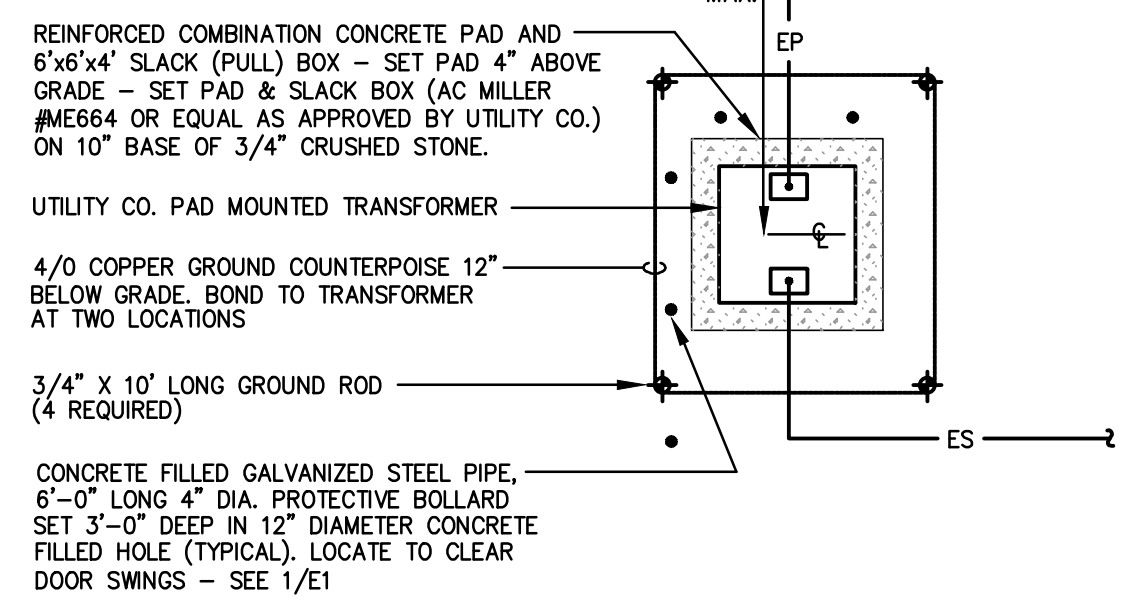
REGAN YOUNG ENGLAND BUTERA
 REFERENCING - ENGINEERING - ARCHITECTURE - DESIGN
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RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
 BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: PLANS AND SYMBOLS LIST - ELECTRICAL DEMOLITION

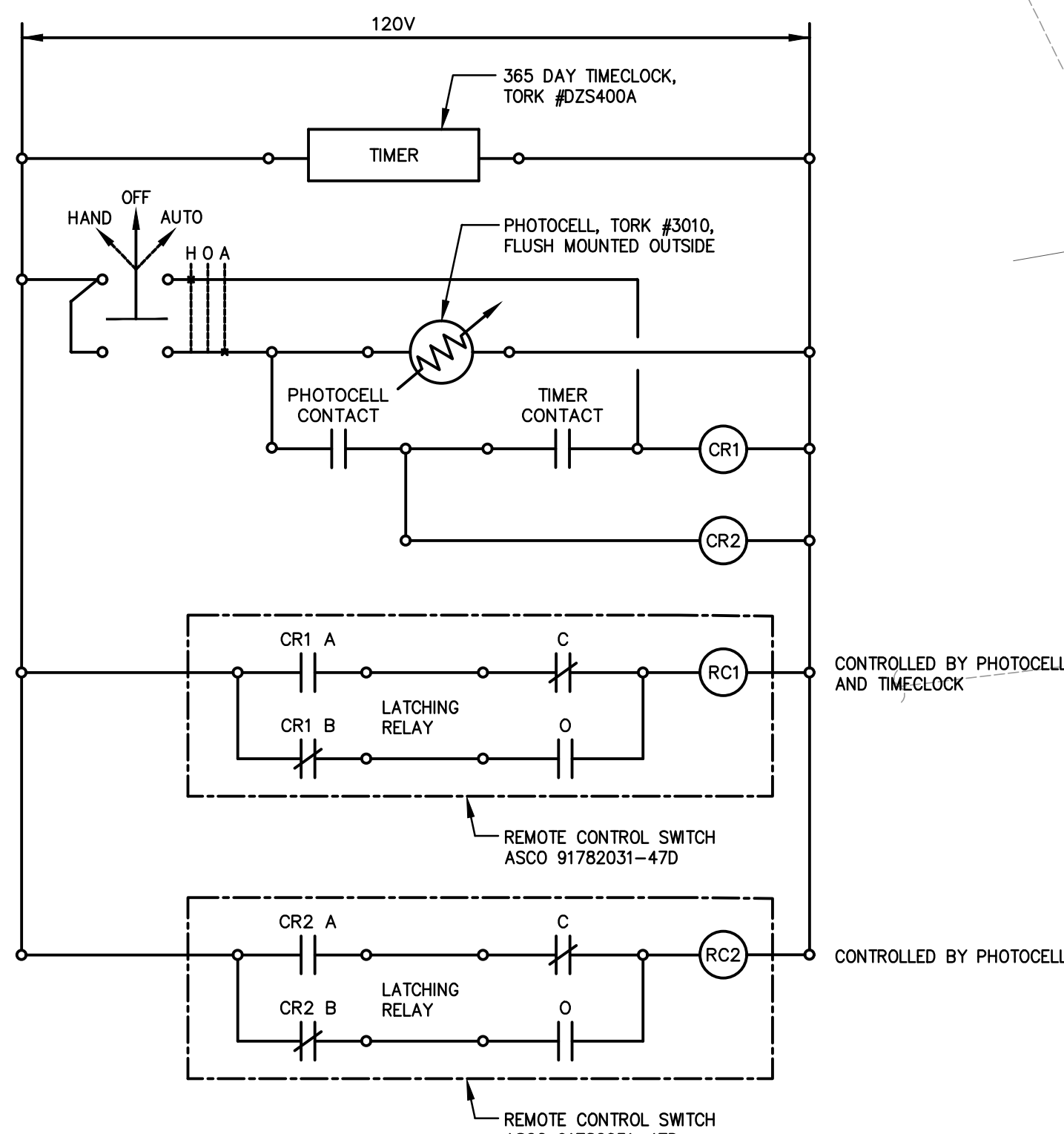
DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	LA
COMMISSION NO.:	5475B





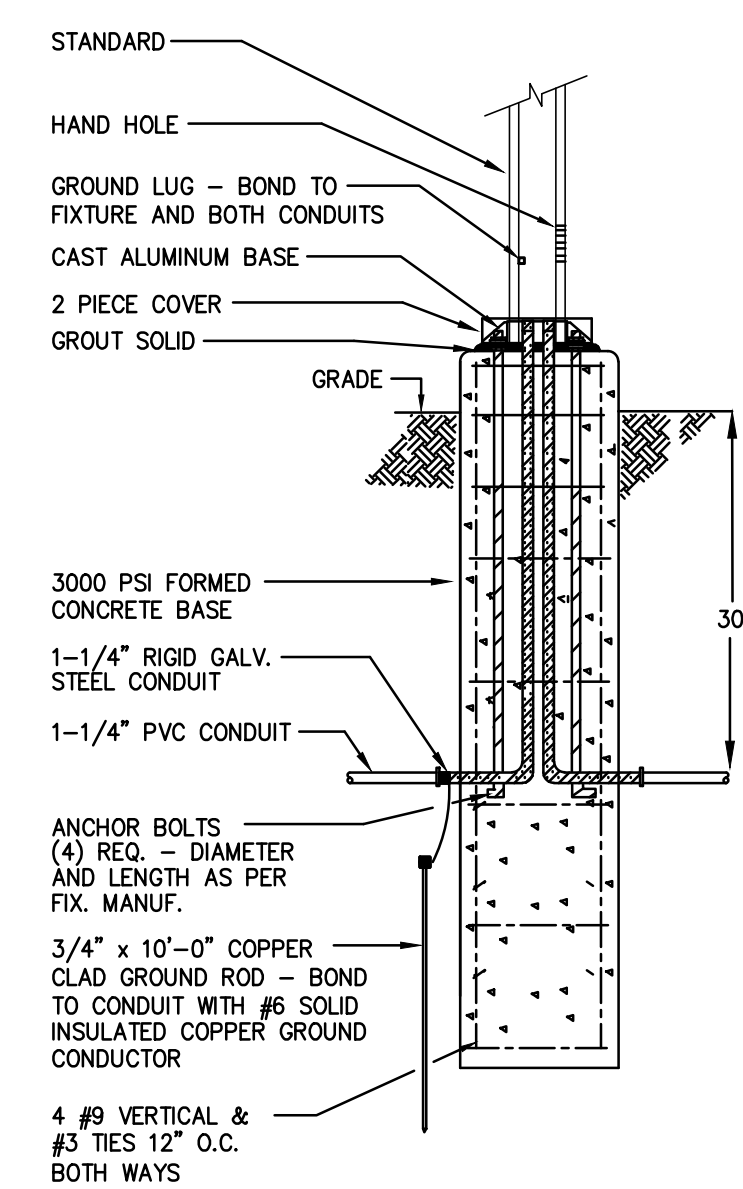
NOTE:
COORDINATE TRANSFORMER PAD REQUIREMENTS WITH THE UTILITY CO. AND MAKE ALL NECESSARY PROVISIONS.

2 TRANSFORMER PAD DETAIL
E1 NOT TO SCALE



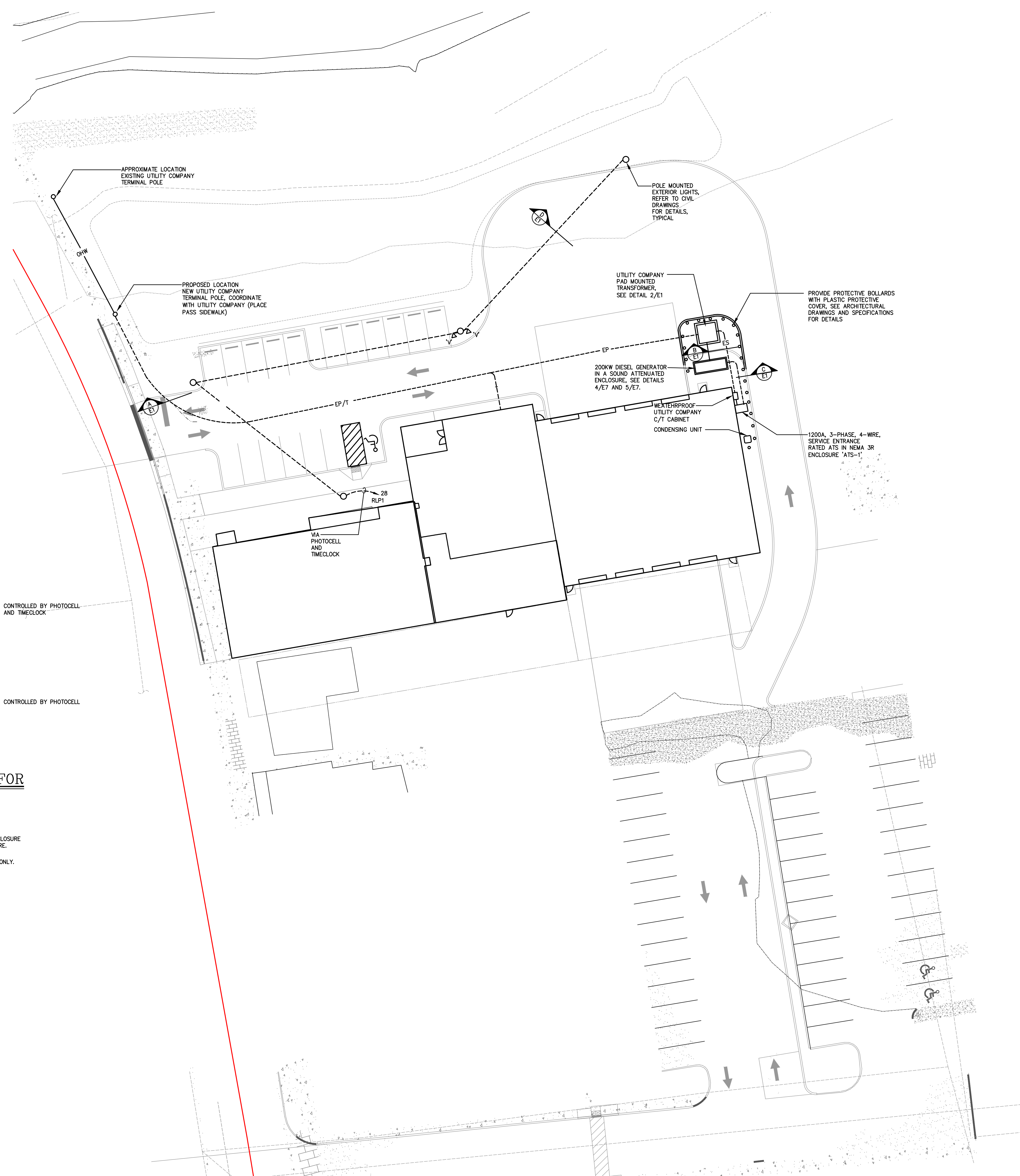
3 SCHEMATIC WIRING DIAGRAM FOR EXTERIOR LIGHTING CONTROL
E1 SCHEMATIC

- NOTES:
1. MOUNT CONTROL SWITCH RELAY & REMOTE CONTROL SWITCH IN NEMA 1 ENCLOSURE AND MOUNT HAND-OFF-AUTO SELECTOR SWITCH ON THE FACE OF ENCLOSURE. COORDINATE EXACT LOCATION IN FIELD.
 2. ALL EXTERIOR EMERGENCY FIXTURES SHALL BE CONTROLLED BY PHOTOCELL ONLY.



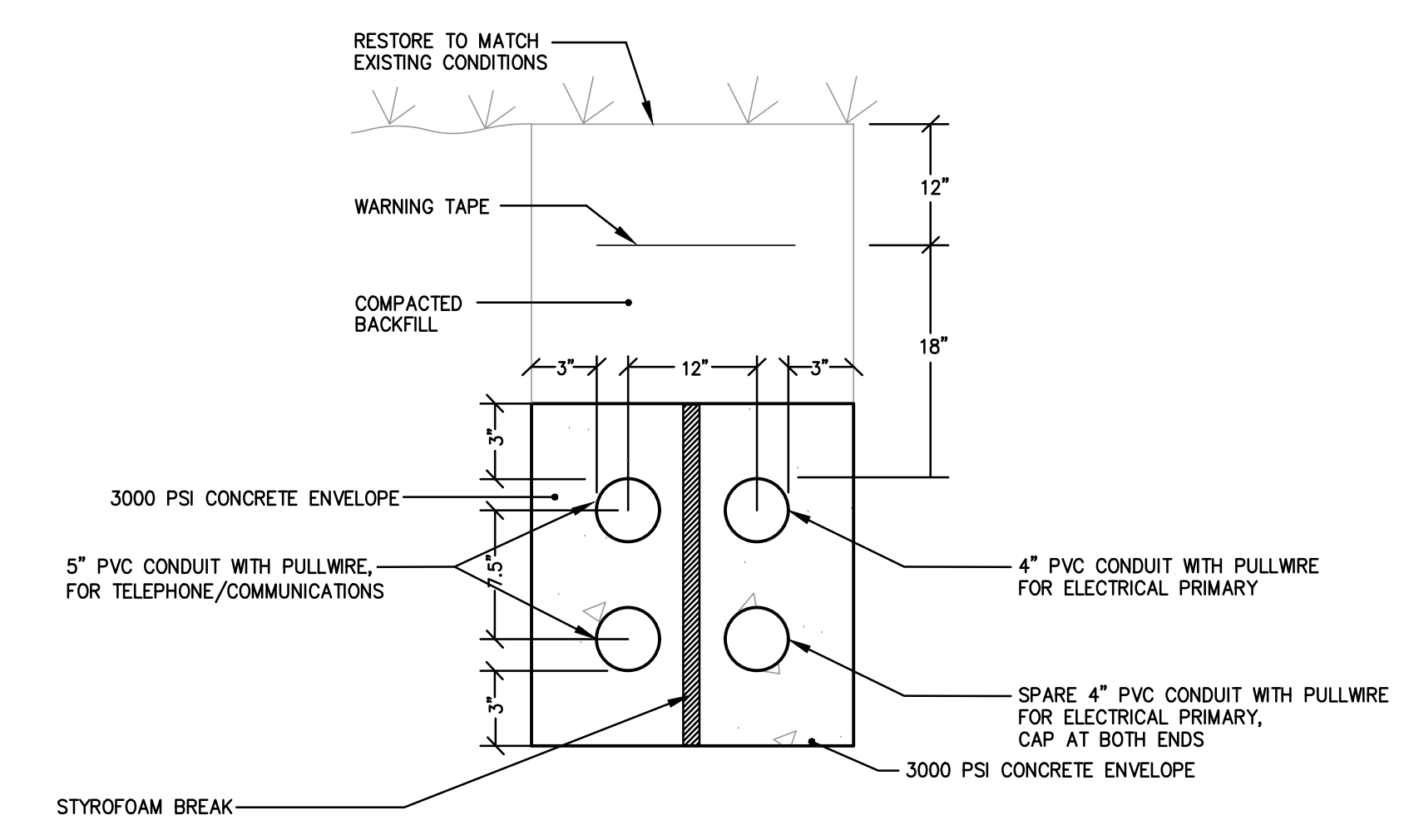
4 SITE LIGHTING BASE DETAIL
E1 NOT TO SCALE

- NOTE:
1. REFER TO CIVIL DRAWINGS FOR FOUNDATION DIMENSIONS.

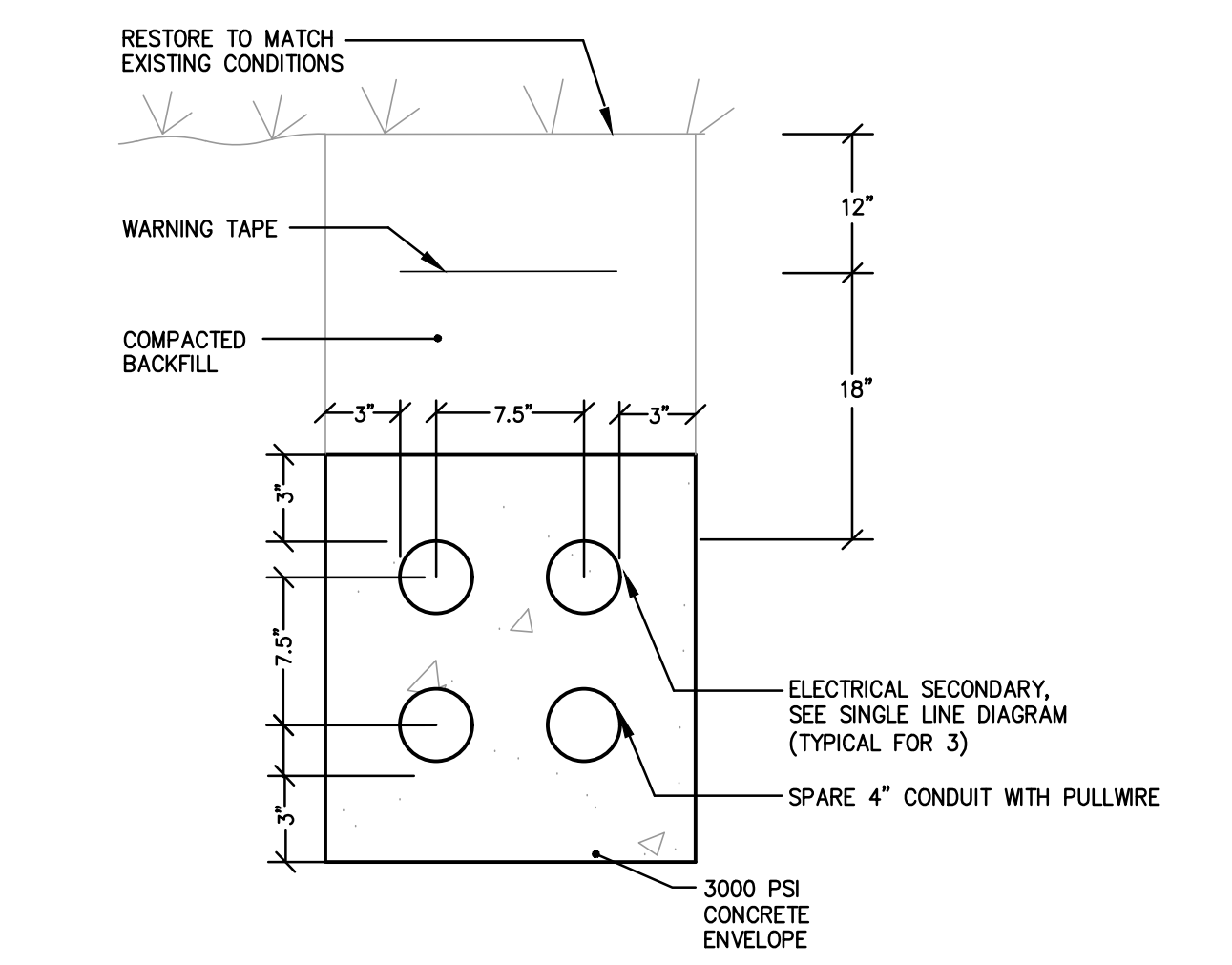


1 SITE PLAN - ELECTRICAL
E1 SCALE 1" = 20'-0"

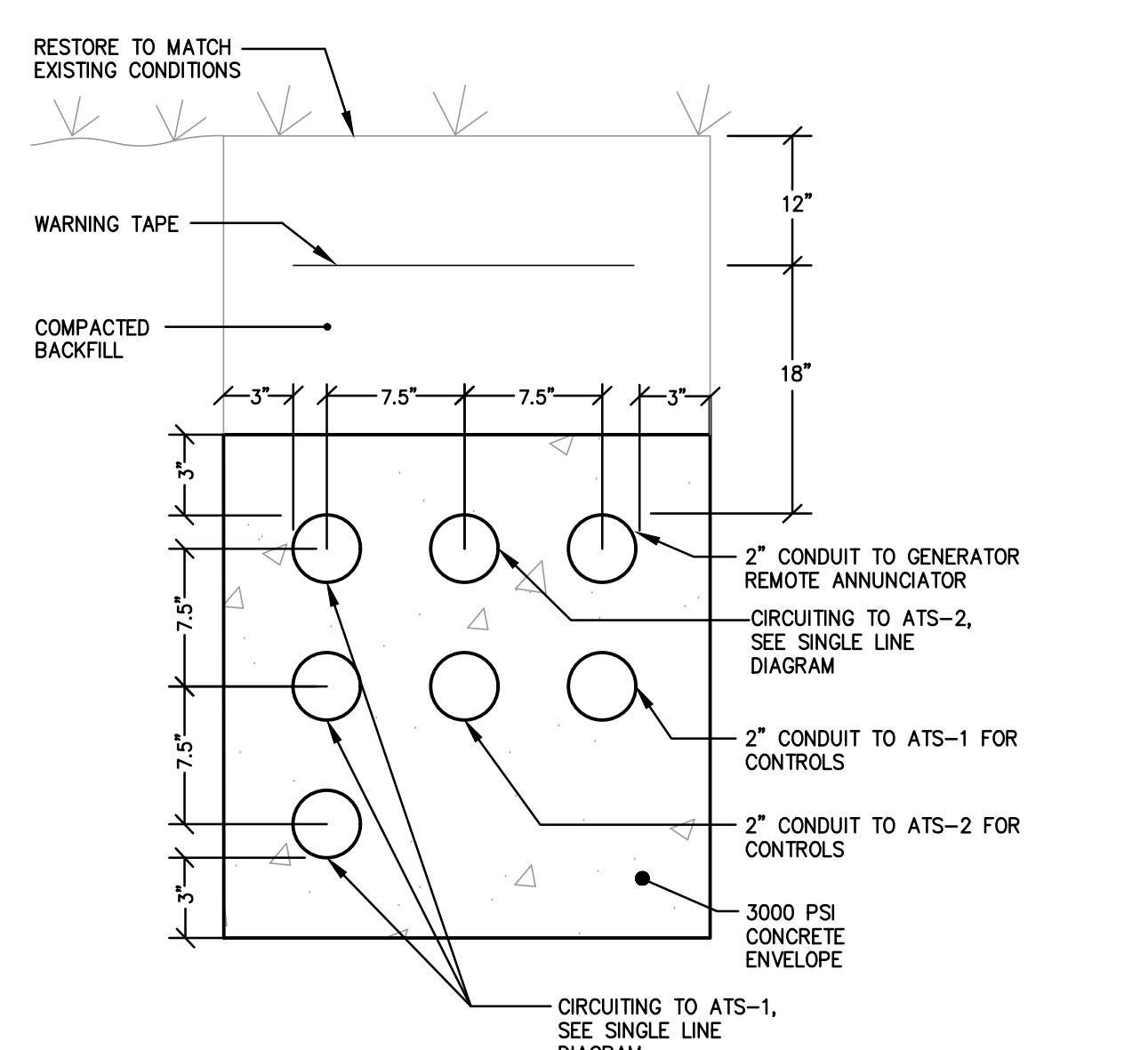
- NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXISTING UNDERGROUND UTILITIES. ALL UTILITIES SHALL BE MARKED OUT AS REQUIRED BY N.J.U.A. CALL BEFORE YOU DIG.
 2. ACQUIRE AND PAY FOR ALL PERMITS ASSOCIATED WITH OPENING THE STREET FOR THE INSTALLATION OF NEW UNDERGROUND ELECTRICAL SERVICE FEEDERS.
 3. ALL EXTERIOR EQUIPMENT GENERATOR, TRANSFORMER, AT'S-1, C/T-CABINET ETC. SHALL BE PLACED ON A CONCRETE PAD THAT IS RAISED HIGH ENOUGH SO THAT THE EQUIPMENT SITS ABOVE 15.5' ELEVATION FLOOD LINE. COORDINATE ALL PAD HEIGHTS WITH CIVIL ENGINEER.
 4. ALL CONDUIT ELEVATIONS TO BE COORDINATED WITH NEW UNDERGROUND UTILITIES, REFER TO CIVIL DRAWINGS.



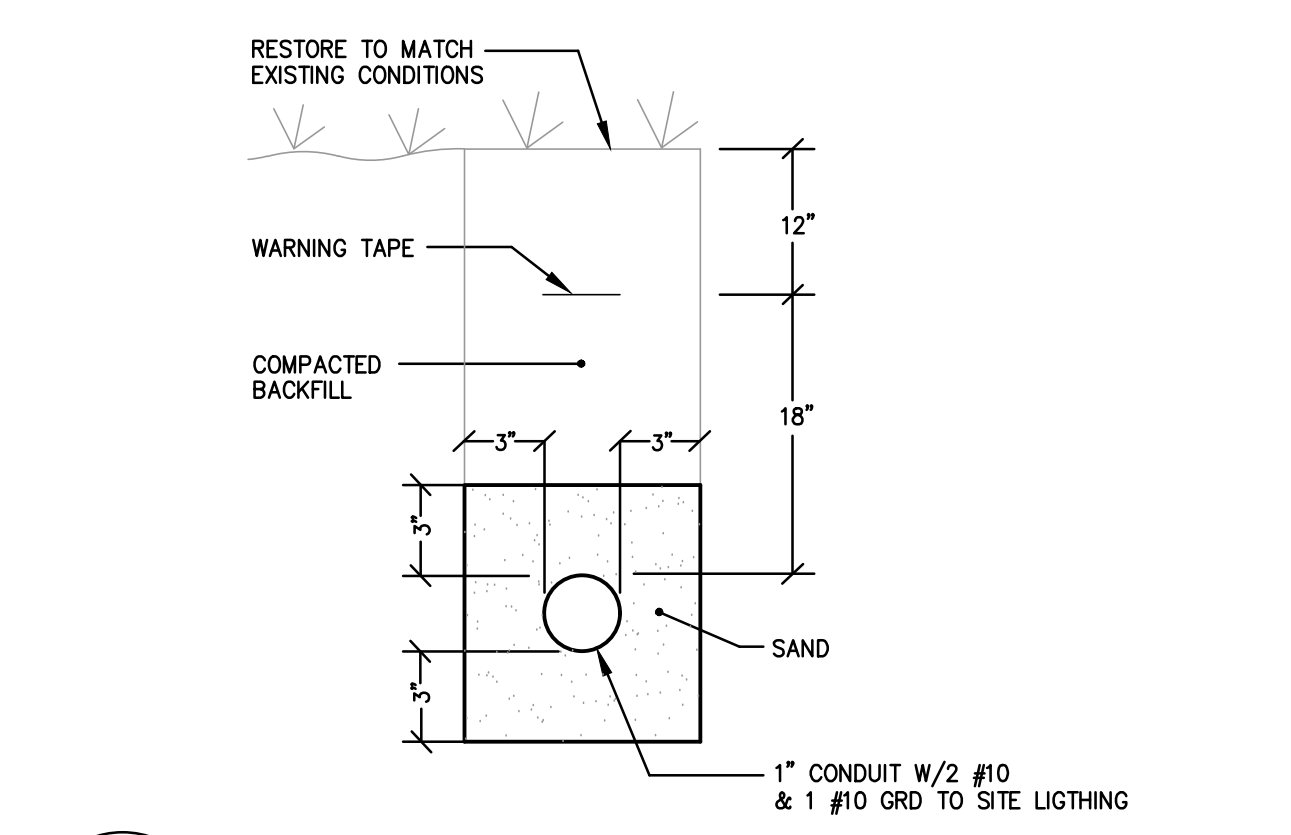
A DUCTBANK DETAIL
E1 NOT TO SCALE



B DUCTBANK DETAIL
E1 NOT TO SCALE

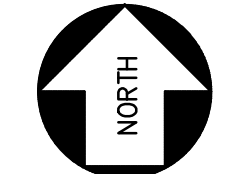


C DUCTBANK DETAIL
E1 NOT TO SCALE



D DUCTBANK DETAIL
E1 NOT TO SCALE

- NOTE:
1. ENCASE DUCTBANK IN CONCRETE WHEN UNDERNEATH ROADWAYS.



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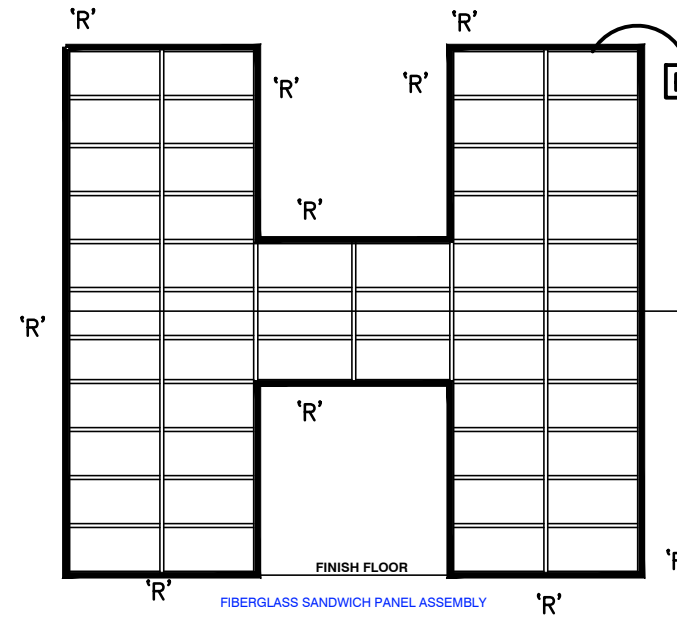
RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 86, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: SITE PLAN AND DETAILS - ELECTRICAL

DRAWING DATE:
01 JULY 2020

REVISION DATE:

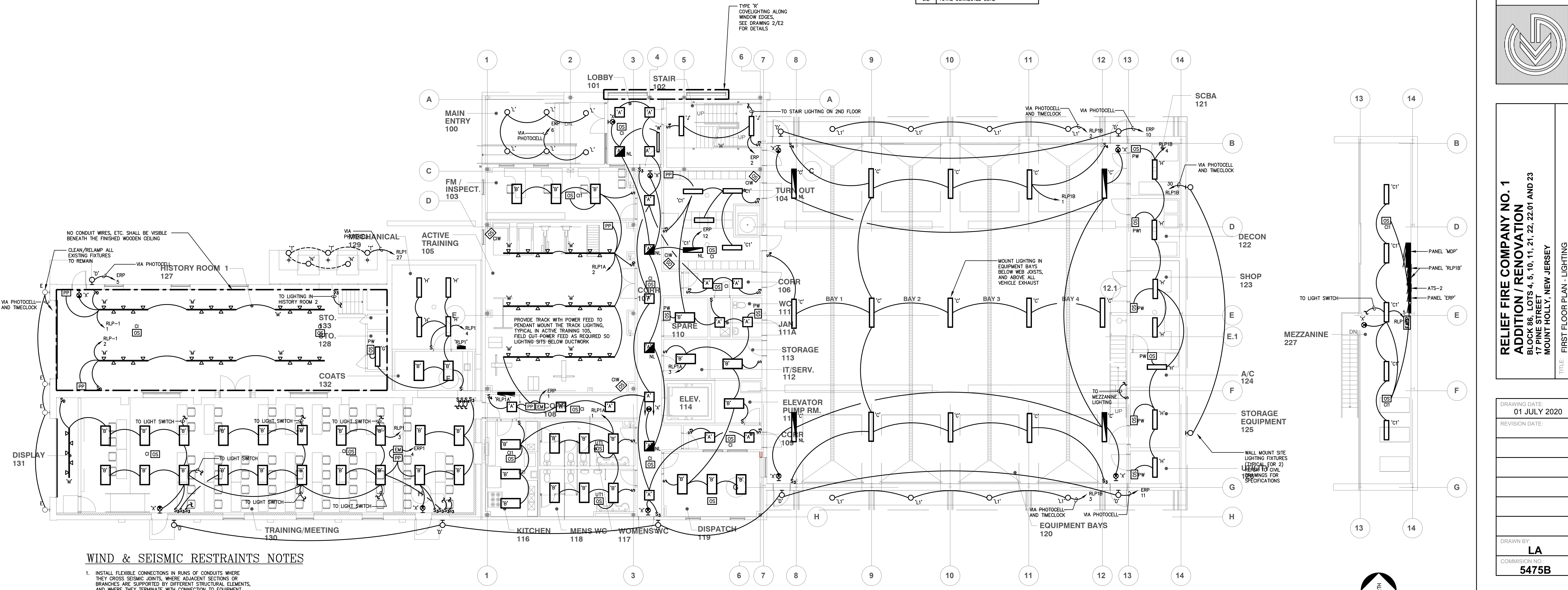
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E1



2 TRANSLUCENT INSUL PANELS ELEVATION - LIGHTING
E2 SCALE 1/8" = 1'-0"

PANELBOARD 'ERP'					
208/120V, 3ø, 4W, 5/N, SURFACE, 100A/3P MAIN CIRCUIT BREAKER					
CKT. NO.	CIRCUIT BREAKER		LOAD		WIRE & CONDUIT
	AMPS	POLES	KVA	HP	
1	20	1	0.34	-	LIGHTING 1ST FLOOR CORRIDOR 2 #12 & 1 #12 GRD - 3/4"C
2	20	1	0.25	-	LIGHTING STAIR 2 #12 & 1 #12 GRD - 3/4"C
3	20	1	0.26	-	LIGHTING 2ND FLOOR CORRIDOR 2 #12 & 1 #12 GRD - 3/4"C
4	20	1	0.13	-	TRAINING ROOM 2X4 FIXTURES 2 #12 & 1 #12 GRD - 3/4"C
5	20	1	0.22	-	EXTERIOR LIGHTING 2 #12 & 1 #12 GRD - 3/4"C
6	20	1	0.12	-	LTC MAIN ENTRY CANOPY 2 #12 & 1 #12 GRD - 3/4"C
7	20	1	0.20	-	FACP 2 #12 & 1 #12 GRD - 3/4"C
8	20	2	3.00	-	GENERATOR BLOCK HTR 2 #12 & 1 #12 GRD - 3/4"C
9	20	1	0.20	-	GENERATOR BATTERY CHARGER 2 #12 & 1 #12 GRD - 3/4"C
10	20	1	0.05	-	EQUIPMENT BAYS OVERDOOR LTG. 2 #12 & 1 #12 GRD - 3/4"C
11	20	1	0.14	-	BACK OVERDOOR LTG. 2 #12 & 1 #12 GRD - 3/4"C
12	20	1	0.17	-	NIGHT LIT. 1ST FL. CORR/TURNOUT 2 #12 & 1 #12 GRD - 3/4"C
13	20	1	0.12	-	NIGHT LIT. 2ND FL. CORRIDOR 2 #12 & 1 #12 GRD - 3/4"C
14	20	1	-	-	SPARE -
15	20	1	-	-	SPARE -
16	20	1	-	-	SPARE -
17	20	1	-	-	SPARE -
18	20	1	-	-	SPARE -
19	20	1	-	-	SPARE -
20	20	1	-	-	SPARE -
21	20	1	-	-	SPARE -
22	20	1	-	-	SPARE -
23	20	1	-	-	SPARE -
24	20	1	-	-	SPARE -
25	20	1	-	-	SPARE -
26	20	1	-	-	SPARE -
27	20	1	-	-	SPARE -
28	20	1	-	-	SPARE -
29	20	1	-	-	SPARE -
			5.2	TOTAL CONNECTED LOAD	



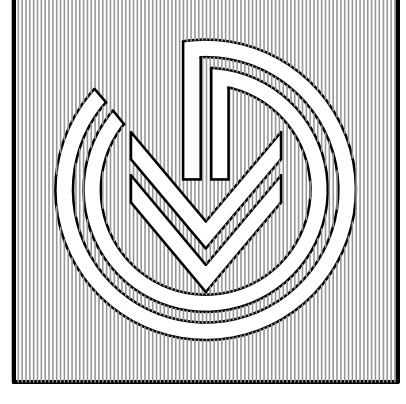
WIND & SEISMIC RESTRAINTS NOTES

1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF CONDUITS WHERE THEY CROSS SEISMIC JOINTS, WHERE ADJACENT SECTIONS OR BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE THEY TERMINATE WITH CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM THE ONE SUPPORTING THEM AS THEY APPROACH EQUIPMENT.
2. WIND RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.
3. SEISMIC RESTRAINT LOADING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS IN THE ARCHITECTURAL/STRUCTURAL CODE ANALYSIS.

1 FIRST FLOOR PLAN - LIGHTING
E2 SCALE 1/8" = 1'-0"

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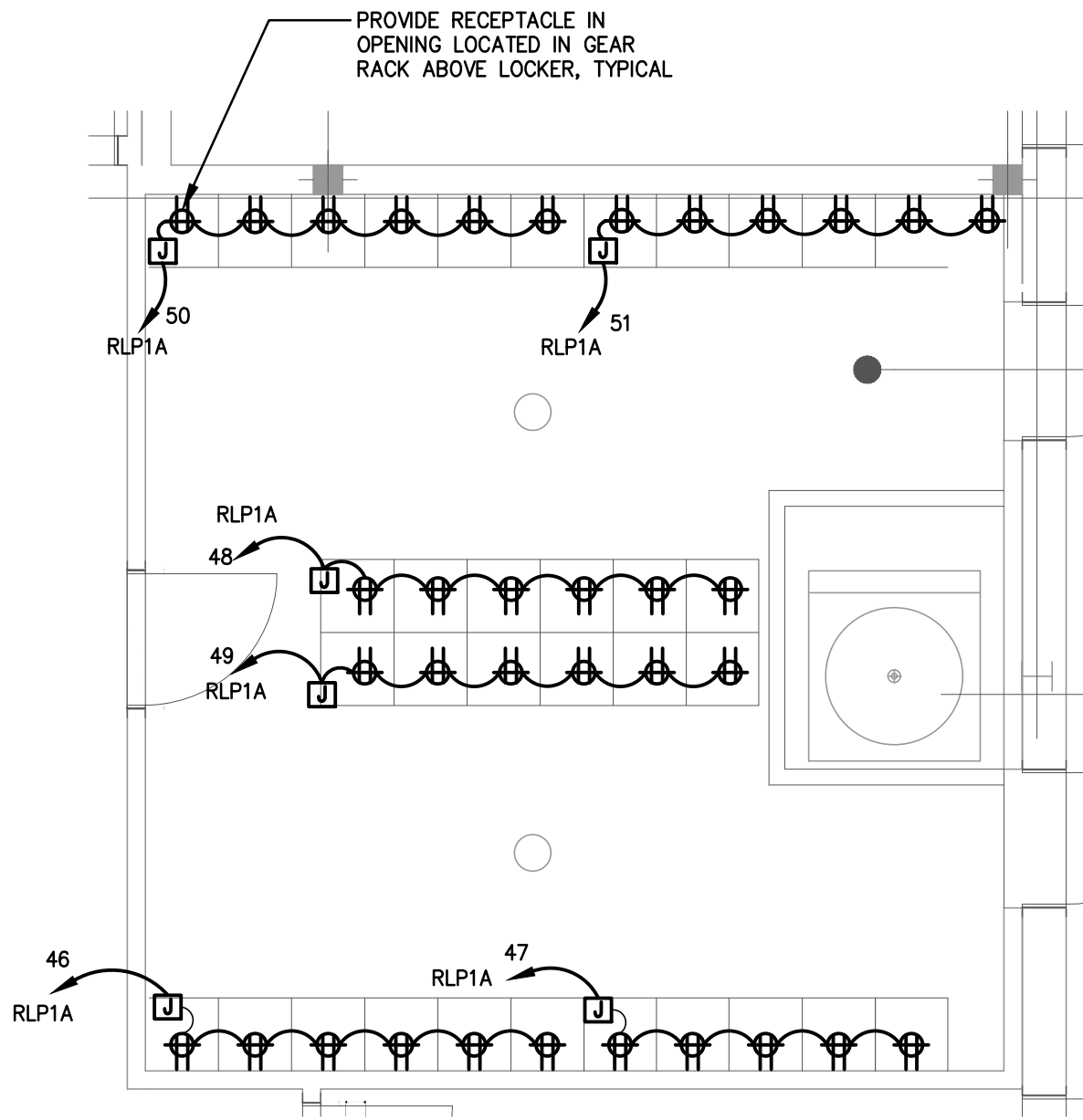
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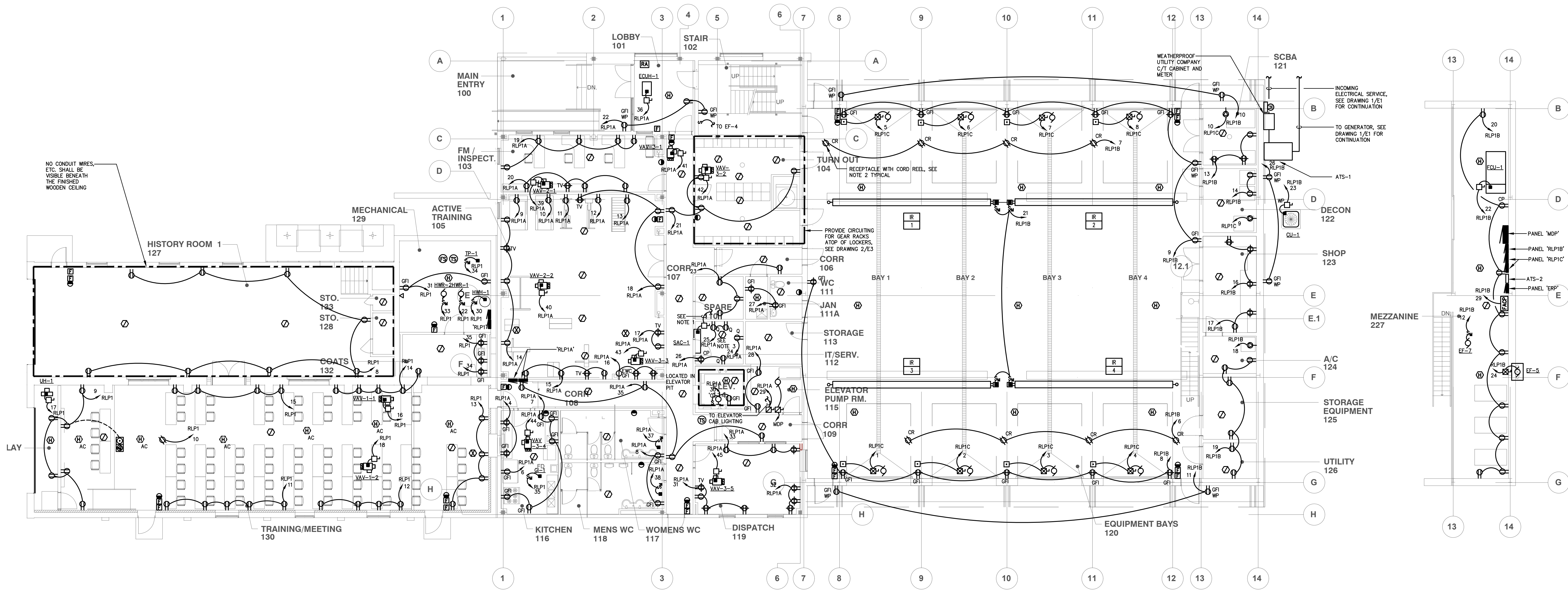
RELIEF FIRE COMPANY NO. 1
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 17 PINE STREET
 MOUNT HOLLY, NEW JERSEY
 TITLE: FIRST FLOOR PLAN - LIGHTING

DRAWING DATE: 01 JULY 2020
 REVISION DATE:
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 COMMISSION NO.: 5475B

E2
 3 OF 8



2 TURN OUT ROOM - GEAR RACK CIRCUITING
E3 SCALE 1/4" = 1'-0"
 (PART OF BASEBID)

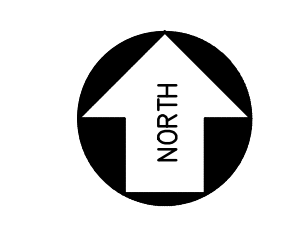


1 FIRST FLOOR PLAN - POWER
E3 SCALE 1/8" = 1'-0"

- NOTES:
1. PROVIDE POWER AND CONTROL WIRING TO OUTDOOR UNIT PER MANUFACTURER'S DIRECTIONS.
 2. PROVIDE 50' 2 #12 & 1 #12 RETRACTABLE CORD REEL, HUBBELL MODEL NO. H8L43237200. COORDINATE EXACT LOCATION IN FIELD.
 3. PROVIDE POWER AS REQUIRED TO DOOR ACCESS CONTROL PANELS IN IT ROOM, COORDINATE WITH SECURITY VENDOR.

WIND & SEISMIC RESTRAINTS NOTES

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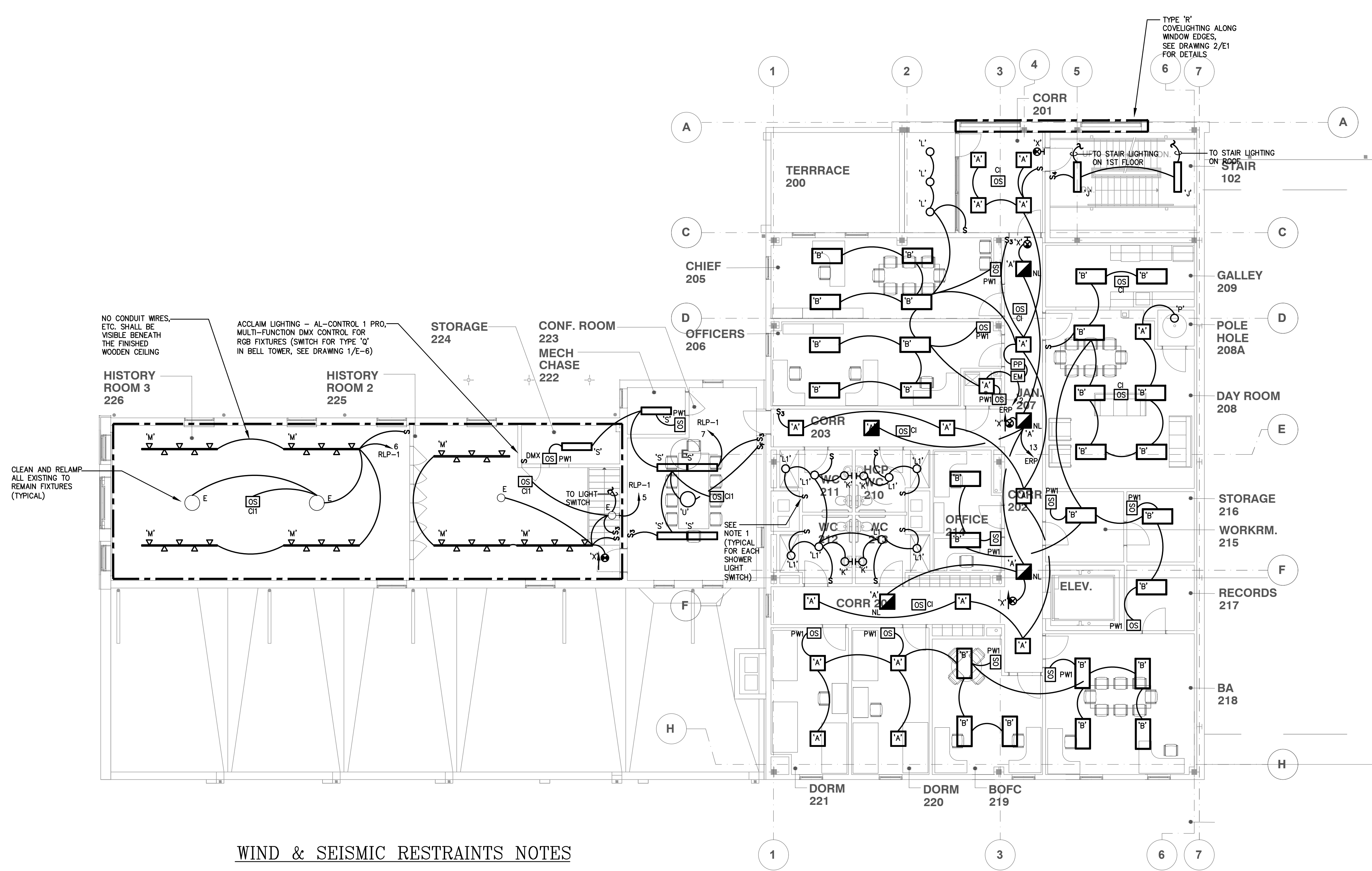
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E3
 4 OF 8

LIGHTING FIXTURE SCHEDULE

ID	LAMPS	MANUF.	CAT. NO.	MOUNTING	DESCRIPTION
A	24W LED SPX 30	METALUX	22C7-LD5-29-UNV-L830-CD1 OR APPROVED EQUAL BY LITHONIA, LIGHTOLIER	RECESSED	2'x2' BASKETED FIXTURE, ACRYLIC PRISMATIC LENS, DIE FORMED HOUSING, WHITE ENAMEL FINISH, 120V INPUT
B	32W LED SPX 30	METALUX	24C7-LD5-40-UNV-L830-CD1 OR APPROVED EQUAL BY LITHONIA, LIGHTOLIER	RECESSED	2'x4' BASKETED FIXTURE, ACRYLIC PRISMATIC LENS, DIE FORMED HOUSING, WHITE ENAMEL FINISH, 120V INPUT
C	48W LED SPX 30	CORELITE	CTA-F-0100-30L-830-1-D-UNV-STD-X-AC-XX-UM-6 OR APPROVED EQUAL BY FINELITE, NEORAY	PENDANT	7.0"W x 6'L DIRECT LINEAR FIXTURE, FROSTED CONTINUOUS ROLL LENS, FINISH AS SELECTED BY ARCHITECT, PROVIDE CABLE LENGTH AS REQUIRED FOR FIXTURE TO BE BELOW OPEN WEB JOISTS, 120V INPUT
CI	21W LED SPX 30	CORELITE	CTA-F-0100-20L-1-D-UNV-STD-X-AC-XX-UM-4 OR APPROVED EQUAL BY FINELITE, NEORAY	PENDANT	7.0"W x 4'L DIRECT LINEAR FIXTURE, FROSTED CONTINUOUS ROLL LENS, FINISH AS SELECTED BY ARCHITECT, PROVIDE CABLE LENGTH AS REQUIRED FOR FIXTURE TO BE BELOW OPEN WEB JOISTS, 120V INPUT
D	27W LED SPX 30	LUMARK	LD-WP-FC-38-120V OR APPROVED EQUAL BY GARDCO, HADCO	WALL	16-5/8"W x 15"D x 10"W HIGH WALL PACK FIXTURE, 120V INPUT
G	21W LED SPX 30	COLUMBIA	CMW-2-30-LW-SM-FR-FP-E-U OR APPROVED EQUAL BY LITHONIA, LIGHTOLIER	WALL	25"W x 5"H x 3"D CLOSET LIGHT, 120V INPUT
H	53W LED SPX 30	METALUX	4LED-LD4-7-W-FL-UNV-L830-CD1 OR APPROVED EQUAL BY LITHONIA, LIGHTOLIER	PENDANT	11"W x 5"H x 4'L LENSED INDUSTRIAL FIXTURE, DIE FORMED PRIME STEEL REFLECTOR, BAKED WHITE ENAMEL FINISH, 120V INPUT
J	LED SPX 30	CORELITE	RZL-NL-30L-830-1-D-UNV-STD-ILB120X-SU-4 OR APPROVED EQUAL BY FINELITE, NEORAY	SURFACE	4'L x 6.4"W x 3.5"D LINEAR FIXTURE, FROSTED LINEAR PRISMATIC LENS, INTEGRAL 90 MINUTE BATTERY BACKUP, 120V INPUT
K	22W LED SPX 30	SEAGULL	4357955-04 OR APPROVED EQUAL BY KICHLER, BELLACOR	SURFACE	26" WIDE X 5"H x 3-3/4" DEEP VANITY LIGHT, UL LISTED FOR DAMP LOCATIONS, FROSTED ACRYLIC DIFFUSER
L	LED SPX 30	HALO	HOUSING: H456ICAT1200 LIGHT ENGINE: EL405830 TRIM: TL4020XX OR APPROVED EQUAL BY PORTFOLIO, JUNO	RECESSED	6" DIAMETER DOWNLIGHT UL WET LOCATION LISTED, SPECULAR CLEAR REFLECTOR W/SOLITE LENS WHITE TRIM FINISH, 120V INPUT
LI	LED SPX 30	HALO	HOUSING: H456ICAT1200 LIGHT ENGINE: ML5612936 TRIM: TL6020CS OR APPROVED EQUAL BY PORTFOLIO, JUNO	RECESSED	6" DIAMETER DOWNLIGHT UL WET LOCATION LISTED, SPECULAR CLEAR REFLECTOR W/SOLITE LENS TRIM FINISH AS SELECTED BY ARCHITECT, 120V INPUT
M	LED SPX 35	JUNO	TRACK HEAD: R600L-35K-80CR1-UNF-XX TRACK: MLT MONOLINE OR APPROVED EQUAL BY HALO, PHILIPS	TRACK	TRACK SPOT LIGHT, UNIVERSAL DISTRIBUTION, FINISH AS SELECTED BY ARCHITECT, MONOLINE FLECTRACK, AND FLOATING POWER FEED, FIELD CUT AS REQUIRED SO TRACK SITS, APPROXIMATELY 3" BELOW DUCTWORK, PROVIDE WITH DIMMING, 120V INPUT
N	LED SPX 30	EATON	696-10LED-30-21-120/12-XX OR APPROVED EQUAL BY KIM, GARDCO	IN-GROUND	6" DIAMETER IN-GROUND UP LIGHT TO LIGHT BELLS, 21 DEGREE NARROW DISTRIBUTION, COLOR AS SELECTED BY ARCHITECT, PROVIDE WITH INTEGRAL 120V-12V TRANSFORMER, PROVIDE WITH DIMMING, 120V INPUT
O	(2)-18W COMPACT FL	CROUSE-HINDS	VHF2220P OR APPROVED EQUAL BY LITHONIA, LIGHTOLIER	SURFACE	FLUORESCENT FIXTURE, ENCLOSED VAPORTIGHT BODY AND GLOBE WITH GUARD, 120V ELECTRONIC BALLAST
P	LED RED	EDWARDS SIGNALING	125-XBR2G120A OR APPROVED EQUAL BY HUBBELL, LIGHTOLIER	PENDANT	STEADY-ON RED BEACON LIGHT, PROVIDE WITH MEANS TO PENDANT MOUNT LIGHT ABOVE POLE, 120V INPUT
Q	LED RGB	ACCLAIM	DDJ-2#1-1-AX-H-N OR APPROVED EQUAL BY HUBBELL, LIGHTOLIER	WALL	15.47" DIAMETER X 8.22" DEEP FLOOD LIGHT IN BELLTOWER, PROVIDE DMX CABLE AS REQUIRED FOR FIXTURE CONTROL, HOUSING COLOR AS SELECTED BY ARCHITECT, SELECT BEAM ANGLE BASED ON EXACT FIXTURE PLACEMENT, 120V INPUT
R	LED 30K	FEELUX	FLEXIBLE NEON 1 OR APPROVED EQUAL BY ECON, LEDWORLD	COVE	FLEXIBLE LED CIRCUIT STRIP, COPPER STRIP HOUSING, PROVIDE WITH REMOTE POWER SUPPLY, FIELD COORDINATE LOCATION, PROVIDE FLEX CHANNELS AS REQUIRED, 24V INPUT
S	LED 30K	CORELITE	HLS-S-FR-30L-830-1-D-UNV-STD-XI-SU-4 OR APPROVED EQUAL BY FINELITE, NEORAY	SURFACE	3.5"W x 4'L x 3.5"D LIGHT FIXTURE, FINISH AS SELECTED BY ARCHITECT, 120V INPUT
T	LED 30K	LUMARK	NFLD-C25-E-UNV-33-S-XX OR APPROVED EQUAL BY GARDCO, INVUE	FLOOD	FLOOD SPOT LIGHT FOR FLAGPOLE, COLOR AS SELECTED BY ARCHITECT, PROVIDE WITH PHOTOCELL CONTROL, 120V INPUT
U	LED 30K	ZANEEN	L30303-DV-30K-19-01 OR APPROVED EQUAL BY CORONET, FINELITE	PENDANT	37" DIAMETER ROUND PENDANT, 120V INPUT
V	LED 30K	KIM	ARX16-X-30-UN-XX-ST-SQ OR APPROVED EQUAL BY GARDCO, INVUE	POLE	FLOOD LIGHT WITH SIDE POLE MOUNT TENON, LIGHT DISTRIBUTION AS REQUIRED TO EVENLY WASH THE 'W' ON THE FACADE, AS SELECTED BY ARCHITECT, 120V INPUT
W	LED 30K	ACCLAIM	LNK-D-T OR APPROVED EQUAL BY LITHONIA, LIGHTOLIER	RECESSED	4'L WALL WASH FIXTURE TO LIGHT MOSAIC WALL, 120V INPUT
X	LED	EMERG-LITE	WW-12-DNN-R-N OR APPROVED EQUAL BY SURELITE, ISOLITE	WALL OR CEILING	DIE-CAST ALUMINUM EXIT SIGN, STENOL FACE, 6" RED LETTERS, 90 MIN EMERG BATTERY PACK, WHITE BODY & FACE, 120V
XI	LED	EMERG-LITE	WW-12-DNN-R-N OR APPROVED EQUAL BY SURELITE, ISOLITE	WALL OR CEILING	WEATHERPROOF EXIT SIGN, STENOL FACE, 6" RED LETTERS, 90 MIN EMERG BATTERY PACK, WHITE BODY & FACE, 120V

- LIGHTING FIXTURE NOTES:**
- CONNECT ALL EMERGENCY EXIT SIGNS AHEAD OF ALL SWITCHING.
 - VERIFY THE EXACT LOCATION OF ALL FIXTURES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.
 - ALL EXTERIOR FIXTURES TO BE 30K.
- AUTOMATIC LIGHTING CONTROL NOTES:**
- FURNISH AND INSTALL ALL OCCUPANCY SENSORS AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER'S WRITTEN WIRING INSTRUCTIONS.
 - PROVIDE ALL RELAYS, POWER PACKS AND LOW VOLTAGE WIRING AS REQUIRED. COORDINATE QUANTITY OF RELAYS & POWER PACKS IN THE FIELD AND PROVIDE AS REQUIRED.
 - CONTRACTOR SHALL SET, ADJUST, AND CALIBRATE ALL FIXTURES SPECIFIED WITH DAYLIGHT RESPONSE CONTROLS.

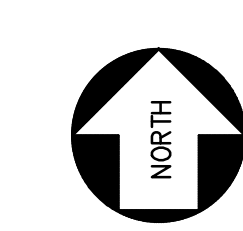


WIND & SEISMIC RESTRAINTS NOTES

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1 SECOND FLOOR PLAN - LIGHTING
SCALE 1/8" = 1'-0"

- NOTES:**
- SWITCH FOR SHOWER LIGHT TO CONTROL BOTH LIGHT AND SHOWER EXHAUST FAN, REFER TO EXHAUST FAN SCHEDULE ON HVAC DRAWINGS FOR DETAILS.



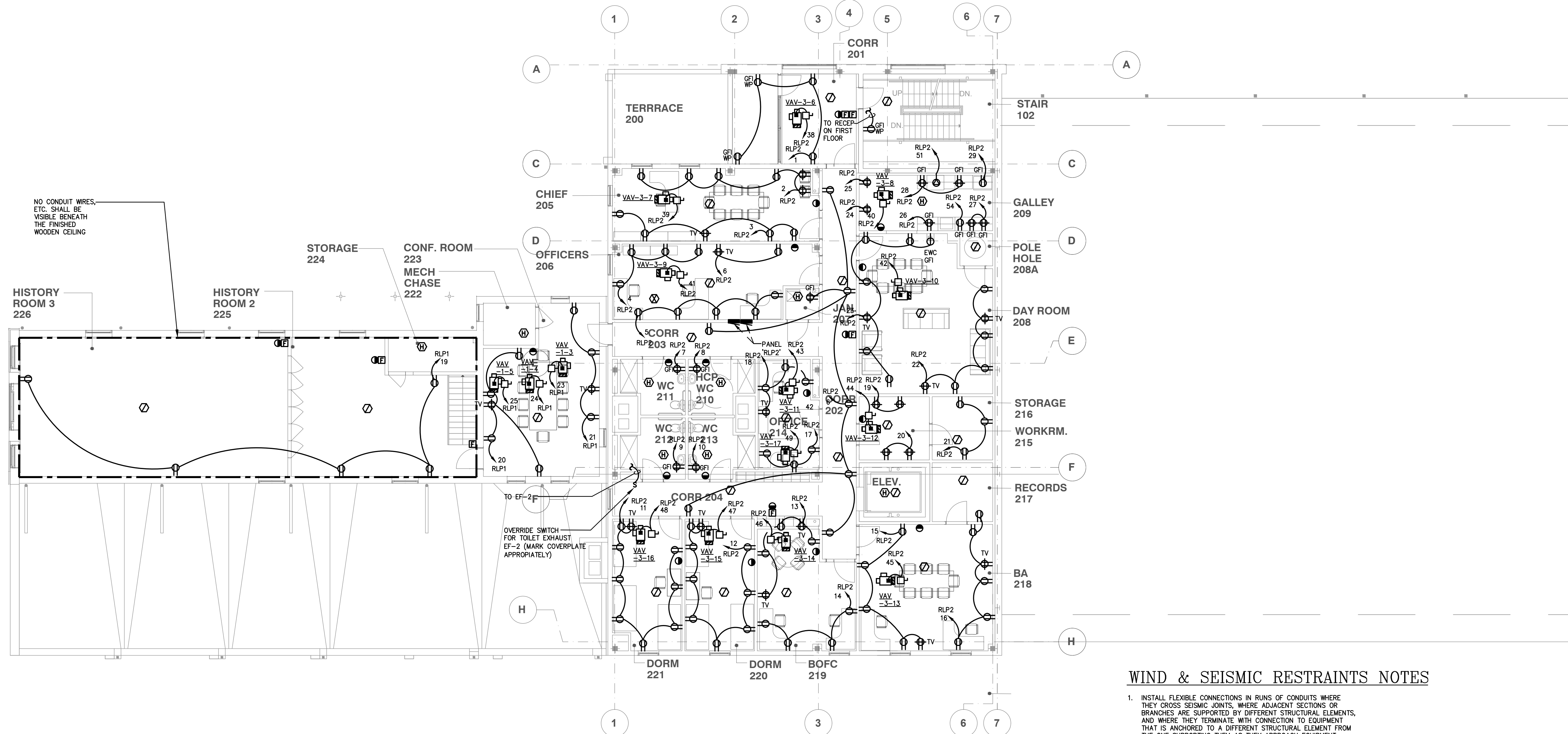
REGAN YOUNG ENGLAND BUTERA
REFERENDUMS • ENGINEERING • ARCHITECTURE • DESIGN
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RELIEF FIRE COMPANY NO. 1
ADDITION / RENOVATION
BLOCK 88, LOTS 4, 5, 10, 11, 21, 22, 22.01 AND 23
17 PINE STREET
MOUNT HOLLY, NEW JERSEY
TITLE: SECOND FLOOR PLAN - LIGHTING

DRAWING DATE:	01 JULY 2020
REVISION DATE:	
DRAWN BY:	LA
COMMISSION NO.:	5475B

E4
5 OF 8



1 SECOND FLOOR PLAN - POWER
E5 SCALE 1/8" = 1'-0"

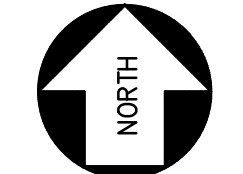
WIND & SEISMIC RESTRAINTS NOTES

- INSTALL FLEXIBLE CONNECTIONS IN RUNS OF CONDUITS WHERE THEY CROSS SEISMIC JOINTS, WHERE ADJACENT SECTIONS OR BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE THEY TERMINATE WITH CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM THE ONE SUPPORTING THEM AS THEY APPROACH EQUIPMENT.
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PANELBOARD 'RLP2' (2 SECTIONS)

208/120V, 3ø, 4W, S/N, FLUSH, 225A MAIN LUGS ONLY, 22 KAIC

CKT. NO.	CIRCUIT BREAKER	LOAD	CIRCUIT DESCRIPTION	WIRE & CONDUIT		
	AMPS	POLES	KVA	HP		
1	20	1	0.72	-	RECEPS CORR./TERRACE	2 #12 & 1 #12 GRD - 3/4"
2	20	1	1.08	-	RECEPS. CHIEF	2 #12 & 1 #12 GRD - 3/4"
3	20	1	1.08	-	RECEPS. CHIEF	2 #12 & 1 #12 GRD - 3/4"
4	20	1	0.72	-	RECEPS. OFFICERS	2 #12 & 1 #12 GRD - 3/4"
5	20	1	0.90	-	RECEPS. OFFICERS	2 #12 & 1 #12 GRD - 3/4"
6	20	1	0.36	-	RECEPS. OFFICERS	2 #12 & 1 #12 GRD - 3/4"
7	20	1	0.18	-	RECEPS. BATHROOM	2 #12 & 1 #12 GRD - 3/4"
8	20	1	0.18	-	RECEPS. BATHROOM	2 #12 & 1 #12 GRD - 3/4"
9	20	1	0.18	-	RECEPS. BATHROOM	2 #12 & 1 #12 GRD - 3/4"
10	20	1	0.18	-	RECEPS. BATHROOM	2 #12 & 1 #12 GRD - 3/4"
11	20	1	1.26	-	RECEPS. DORM 221	2 #12 & 1 #12 GRD - 3/4"
12	20	1	1.26	-	RECEPS. DORM 220	2 #12 & 1 #12 GRD - 3/4"
13	20	1	0.90	-	RECEPS. BOFC	2 #12 & 1 #12 GRD - 3/4"
14	20	1	0.72	-	RECEPS. BOFC	2 #12 & 1 #12 GRD - 3/4"
15	20	1	0.90	-	RECEPS. BA	2 #12 & 1 #12 GRD - 3/4"
16	20	1	0.90	-	RECEPS. BA	2 #12 & 1 #12 GRD - 3/4"
17	20	1	0.54	-	RECEPS. OFFICE 214	2 #12 & 1 #12 GRD - 3/4"
18	20	1	0.72	-	RECEPS. OFFICE 214	2 #12 & 1 #12 GRD - 3/4"
19	20	1	0.36	-	RECEPS. WORKROOM	2 #12 & 1 #12 GRD - 3/4"
20	20	1	0.36	-	RECEPS. WORKROOM	2 #12 & 1 #12 GRD - 3/4"
21	20	1	0.54	-	RECEPS. STORAGE	2 #12 & 1 #12 GRD - 3/4"
22	20	1	1.08	-	RECEPS. DAYROOM	2 #12 & 1 #12 GRD - 3/4"
23	20	1	1.08	-	RECEPS. DAYROOM	2 #12 & 1 #12 GRD - 3/4"
24	20	1	0.18	-	RECEPS. GALLERY	2 #12 & 1 #12 GRD - 3/4"
25	20	1	0.18	-	RECEPS. GALLERY	2 #12 & 1 #12 GRD - 3/4"
26	20	1	0.18	-	RECEPS. GALLERY AB. CTR.	2 #12 & 1 #12 GRD - 3/4"
27	20	1	0.18	-	RECEPS. GALLERY AB. CTR.	2 #12 & 1 #12 GRD - 3/4"
28	20	1	0.36	-	RECEPS. GALLERY AB. CTR.	2 #12 & 1 #12 GRD - 3/4"
29	20	1	1.00	-	REFRIGERATOR GALLERY	2 #12 & 1 #12 GRD - 3/4"
30	20	2	3.80	-	SCU/SAC-1	2 #12 & 1 #12 GRD - 3/4"
31	20	2	1.00	1/2	KEF-1	2 #12 & 1 #12 GRD - 3/4"
32	20	1	0.86	1/3	EF-1	2 #12 & 1 #12 GRD - 3/4"
33	20	1	0.69	1/4	EF-2	2 #12 & 1 #12 GRD - 3/4"
34	20	1	0.69	1/4	EF-3	2 #12 & 1 #12 GRD - 3/4"
35	20	1	0.69	1/4	EF-4	2 #12 & 1 #12 GRD - 3/4"
36	20	1	0.54	-	RTU RECEPTACLES	2 #12 & 1 #12 GRD - 3/4"
37	20	1	0.55	-	COVE LIGHTING FOR KALWALL	2 #12 & 1 #12 GRD - 3/4"
38	20	3	3.00	-	VAV-3-6	3 #12 & 1 #12 GRD - 3/4"
39	20	3	2.50	-	VAV-3-7	3 #12 & 1 #12 GRD - 3/4"
40	20	3	1.00	-	VAV-3-8	3 #12 & 1 #12 GRD - 3/4"
41	20	3	1.50	-	VAV-3-9	3 #12 & 1 #12 GRD - 3/4"
42	20	3	2.50	-	VAV-3-10	3 #12 & 1 #12 GRD - 3/4"
43	20	3	4.00	-	VAV-3-11	3 #12 & 1 #12 GRD - 3/4"
44	20	3	3.50	-	VAV-3-12	3 #12 & 1 #12 GRD - 3/4"
45	20	3	2.50	-	VAV-3-13	3 #12 & 1 #12 GRD - 3/4"
46	20	3	1.50	-	VAV-3-14	3 #12 & 1 #12 GRD - 3/4"
47	20	3	1.50	-	VAV-3-15	3 #12 & 1 #12 GRD - 3/4"
48	20	3	1.00	-	VAV-3-16	3 #12 & 1 #12 GRD - 3/4"
49	20	3	5.00	-	VAV-3-17	3 #12 & 1 #12 GRD - 3/4"
50	20	3	-	-	SPARE	-
51	20	2	2.00	-	208V RECEP. GALLERY (MIRCO)	2 #12 & 1 #12 GRD - 3/4"
52	20	1	0.50	-	EF-6	2 #12 & 1 #12 GRD - 3/4"
53	20	1	1.00	-	GALLERY - MICROWAVE	2 #12 & 1 #12 GRD - 3/4"
54	20	1	-	-	GALLERY - DISHWASHER	2 #12 & 1 #12 GRD - 3/4"
55	20	1	-	-	SPARE	-
59.93				TOTAL CONNECTED LOAD		



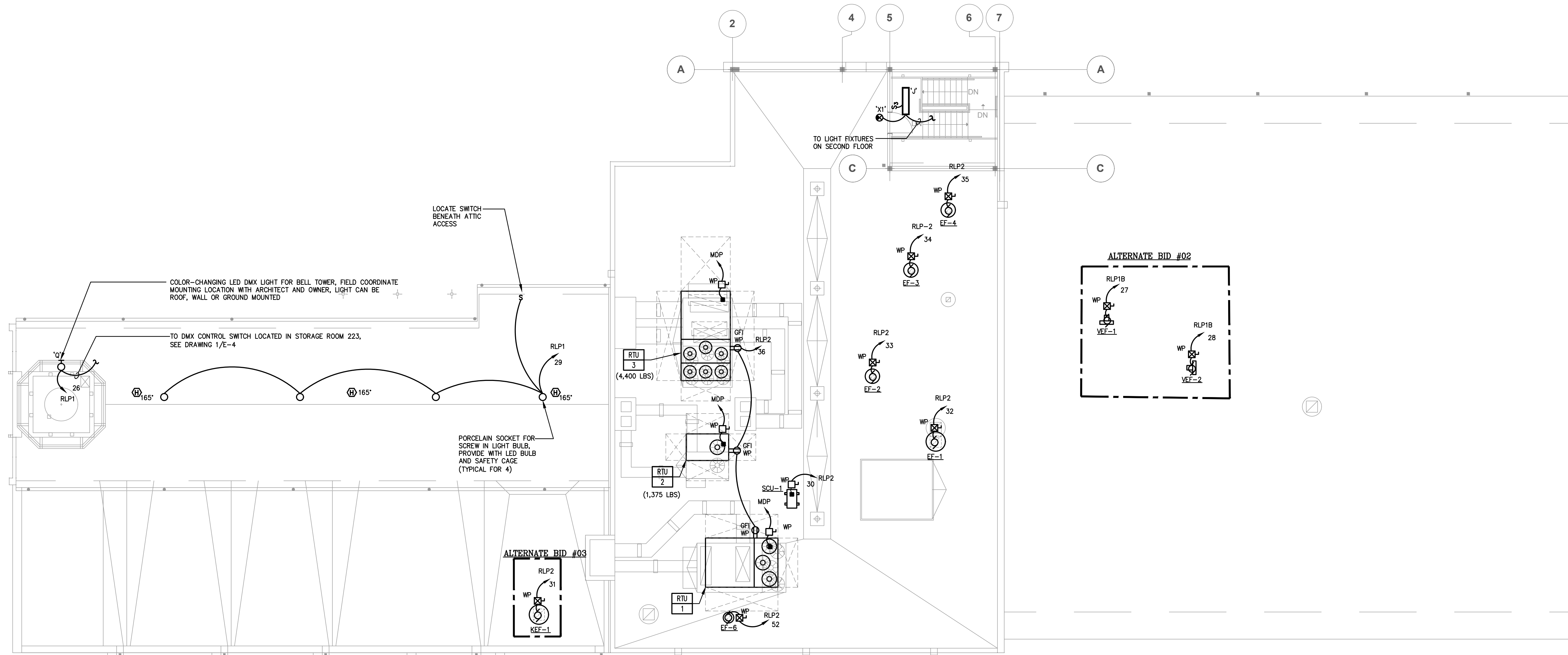
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MOUNT HOLLY, NEW JERSEY
TITLE: SECOND FLOOR PLAN - POWER

DRAWING DATE:
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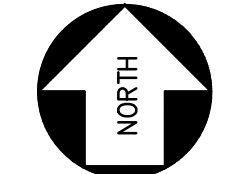
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1 ATTIC/ROOF PLAN - ELECTRICAL
E6 SCALE 1/8" = 1'-0"

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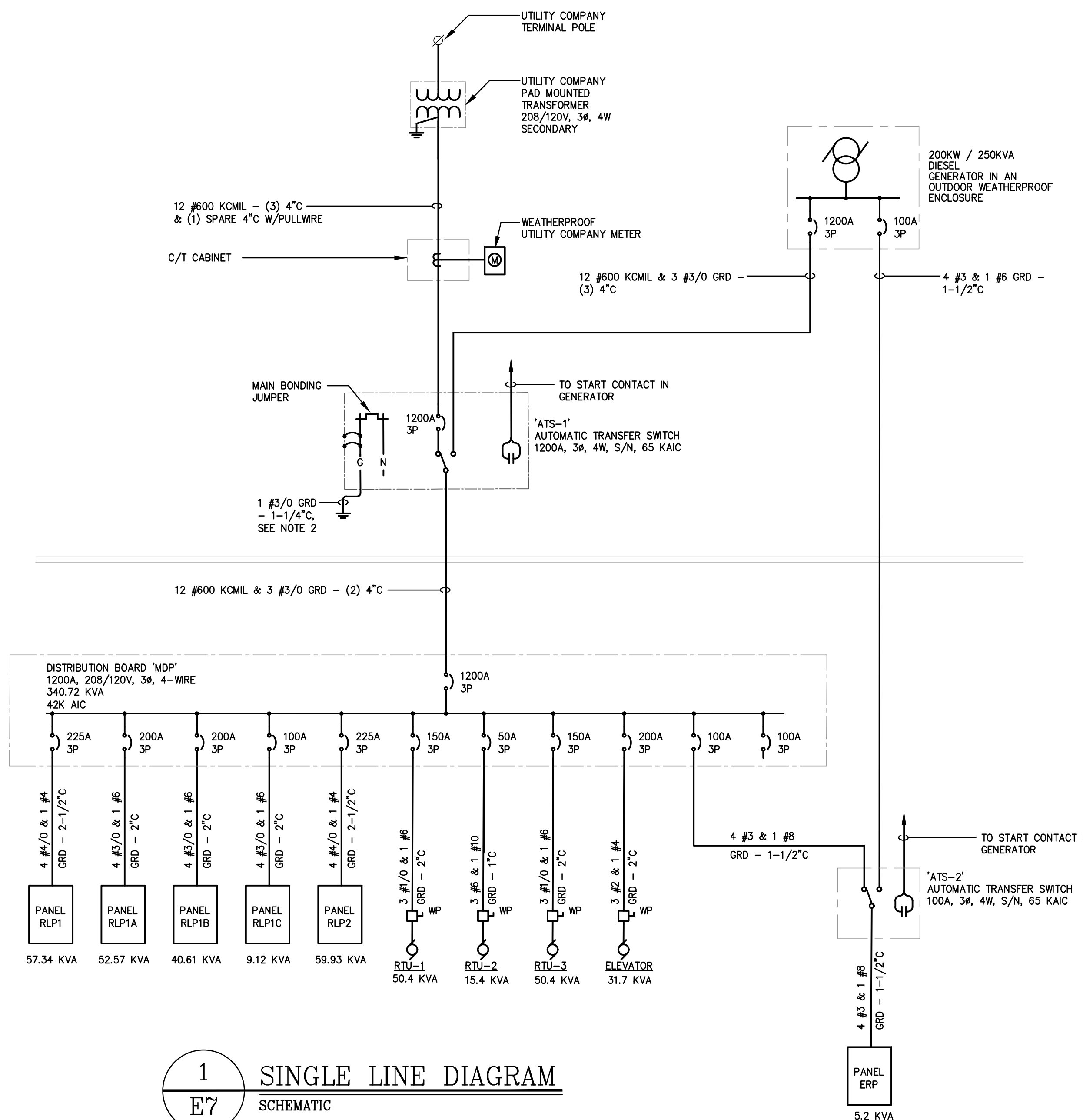
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 TITLE: ROOF PLAN - ELECTRICAL

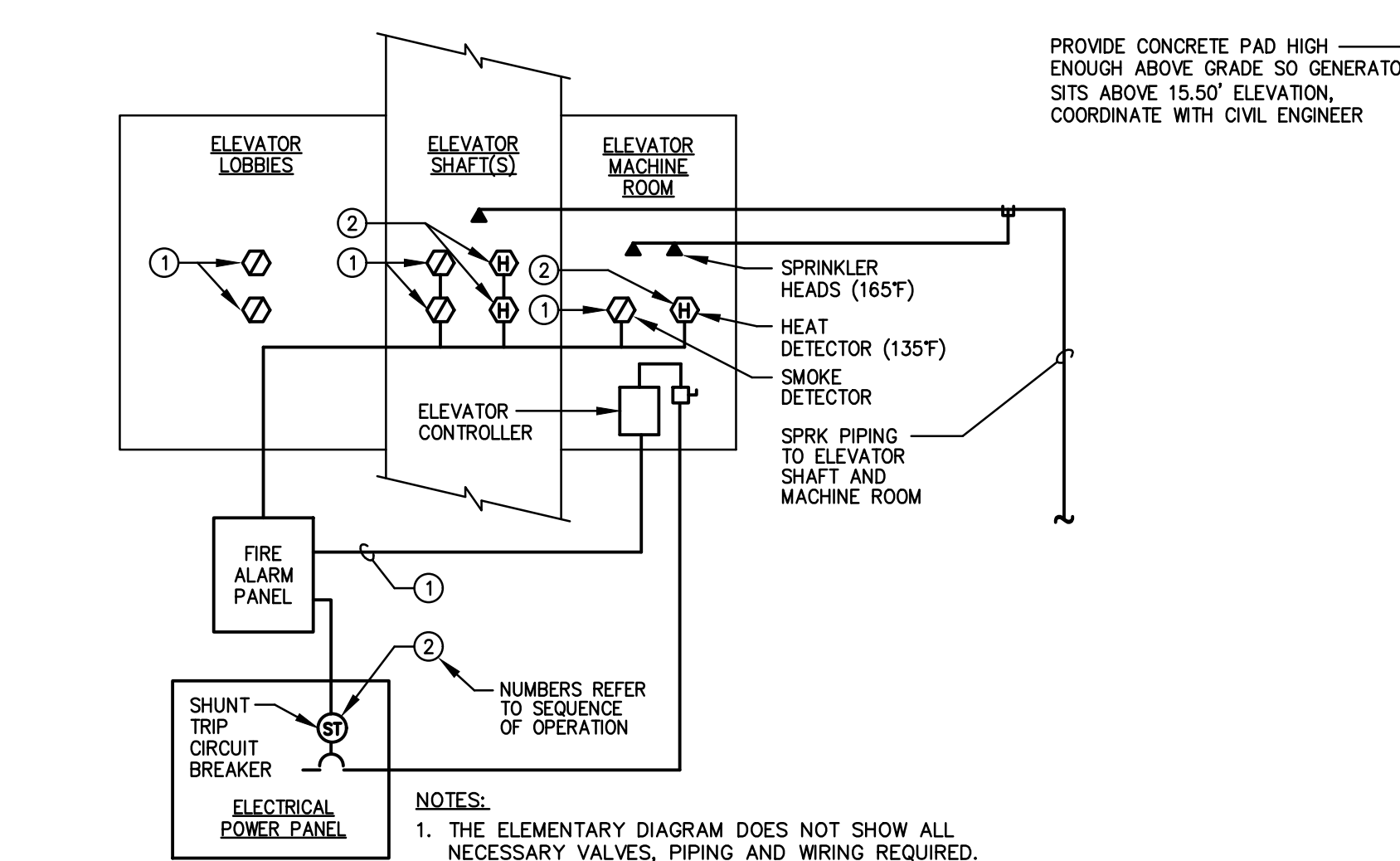
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E6
 7 OF 8



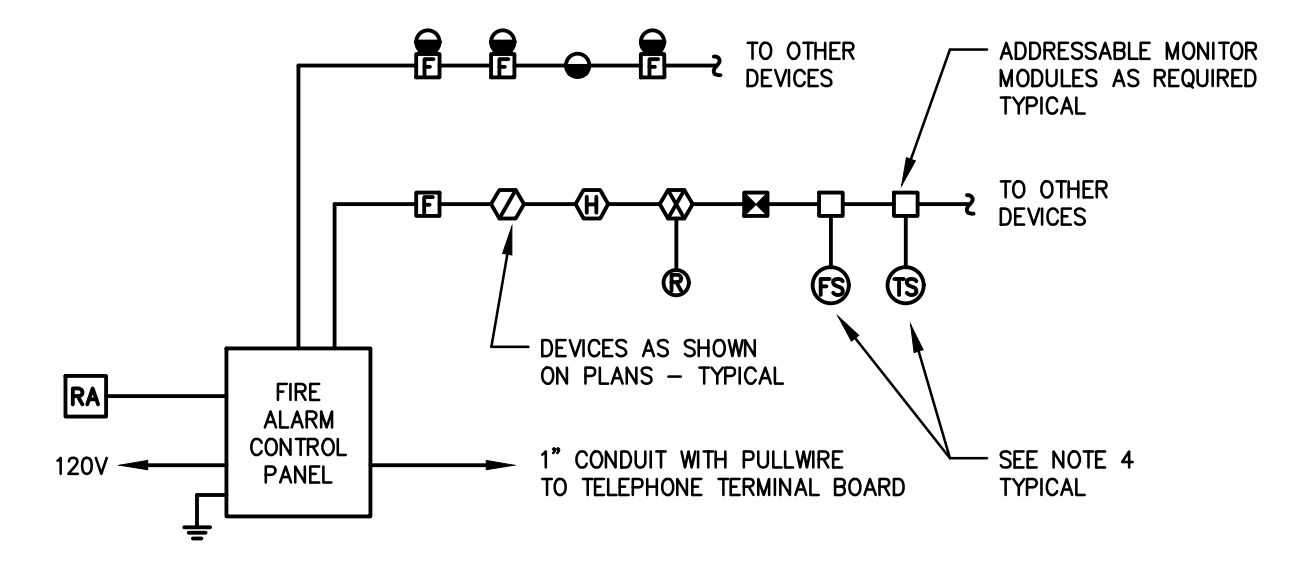
1 SINGLE LINE DIAGRAM SCHEMATIC

- NOTE:
1. WHERE THERE IS 20' OR MORE OF 1/2" OR LARGER REBAR ENCASED IN A MINIMUM OF 2" OF CONCRETE...
2. COORDINATE WITH PSE&G AND MAKE ALL NECESSARY PROVISIONS AS REQUIRED.
3. THE ELECTRICAL DISTRIBUTION SHALL SELECTIVELY COORDINATE UP TO THE EQUIPMENT FAULT CURRENT RATING...



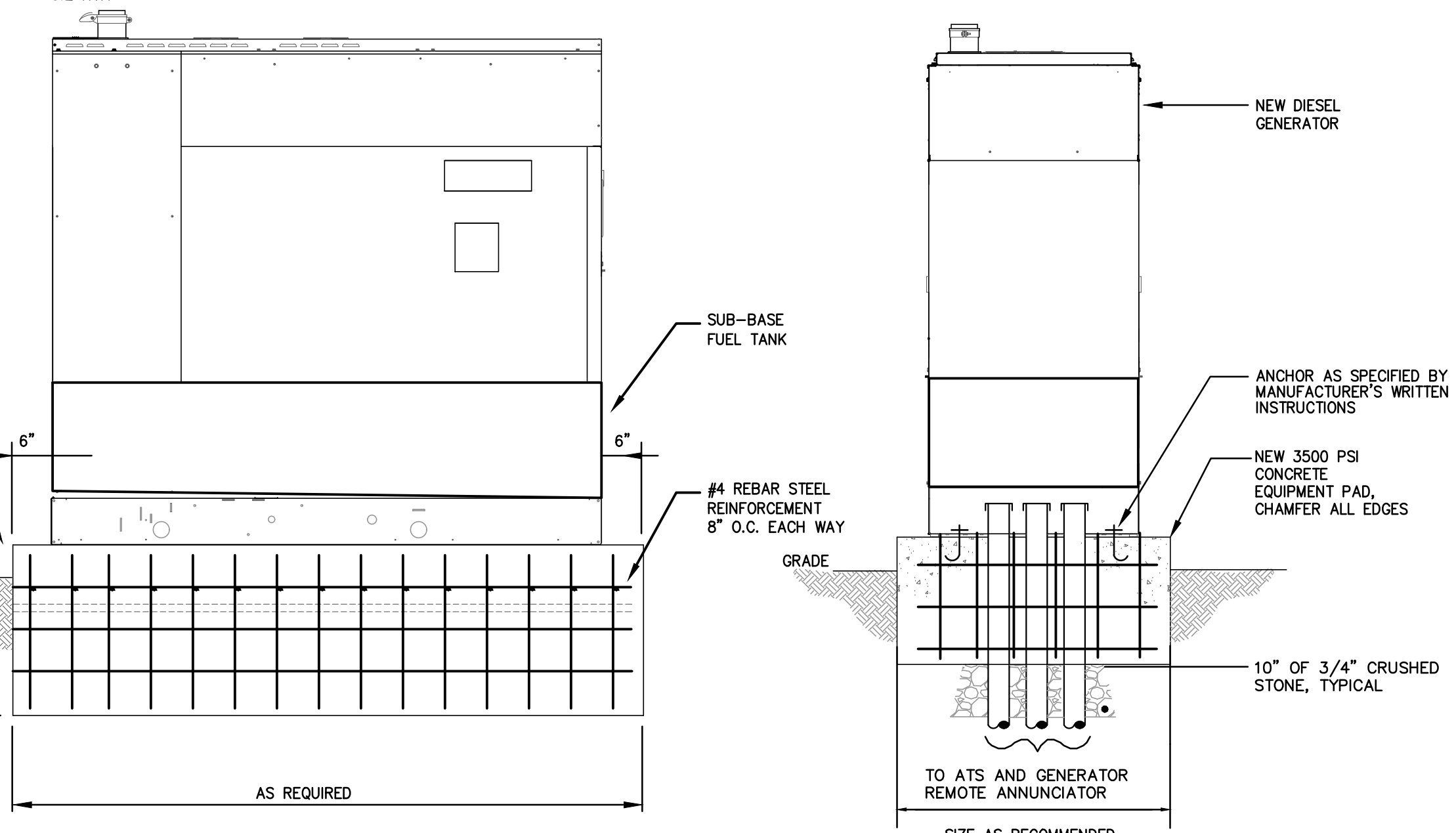
- THE FOLLOWING IS THE SEQUENCE OF OPERATION FOR SIGNALING RECALL TO THE ELEVATOR CONTROLLER(S) AND REMOVAL OF POWER TO THE ELEVATOR(S)
1. SMOKE DETECTORS IN EITHER THE ELEVATOR SHAFT, MACHINE ROOM OR ELEVATOR LOBBIES...
2. HEAT DETECTORS IN EITHER THE ELEVATOR SHAFT OR ELEVATOR MACHINE ROOM...
3. HEAT DETECTORS USED FOR ELEVATOR POWER SHUTDOWN PRIOR TO SPRINKLER OPERATION...

3 ELEVATOR RECALL SYSTEM SCHEMATIC

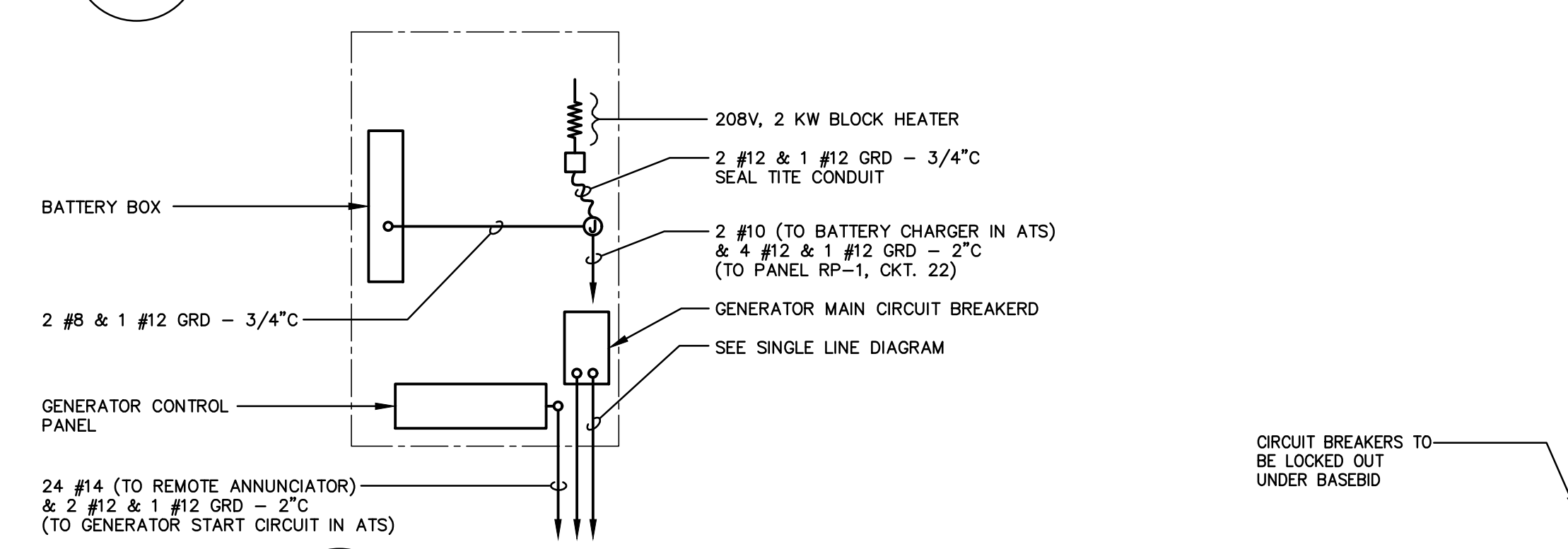


2 FIRE ALARM SYSTEM RISER DIAGRAM SCHEMATIC

- FIRE ALARM SYSTEM NOTES:
1. PROVIDE ALL WIRING AS RECOMMENDED BY MANUFACTURER...
2. ALL EQUIPMENT AND WIRING SHALL BE CLASS A, STYLE G, 5/8" D AND STYLE Z...
3. CONTRACTOR IS RESPONSIBLE FOR INSURING THAT COMPLETE SYSTEM MEETS ALL APPLICABLE CODES...
4. CONTRACTOR IS RESPONSIBLE TO COORDINATE QUANTITY AND LOCATION OF SPRINKLER FLOW AND TAMPER SWITCHES...
5. PROVIDE INTERCONNECTION WIRING BETWEEN HVAC EQUIPMENT AND FIRE ALARM CONTROL PANEL...
6. PROVIDE AN LCD STYLE REMOTE ANNUNCIATOR WHERE INDICATED...
7. PROVIDE AT EACH LOCATION SHOWN, AUDIO/VISUAL DEVICES WITH OUTPUT LEVELS...
8. UPON COMPLETION OF FIRE ALARM WORK, PROVIDE AN ACCEPTANCE TEST OF THE ENTIRE SYSTEM PER NFPA 72.



4 GENERATOR ARRANGEMENT ON GRADE NOT TO SCALE



5 EMERGENCY GENERATOR CONNECTION DETAIL NOT TO SCALE

PANELBOARD 'RLP1' (2 SECTIONS)
Table with columns: CKT. NO., CIRCUIT BREAKER, LOAD (AMPS, POLES, KVA, HP), CIRCUIT DESCRIPTION, WIRE & CONDUIT. Lists various circuits like TRACK LIGHTING HISTORY, TRAINING ROOM LTG., and RECEPS. rooms.

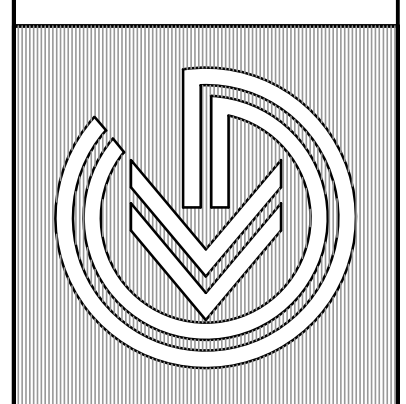
PANELBOARD 'RLP1A' (2 SECTION)
Table with columns: CKT. NO., CIRCUIT BREAKER, LOAD (AMPS, POLES, KVA, HP), CIRCUIT DESCRIPTION, WIRE & CONDUIT. Lists various circuits like LTG. KITCHEN/BATHROOMS, RECEPS. HISTORICAL ROOMS, and RECEPS. TRAINING RM.

PANELBOARD 'RLP1B'
Table with columns: CKT. NO., CIRCUIT BREAKER, LOAD (AMPS, POLES, KVA, HP), CIRCUIT DESCRIPTION, WIRE & CONDUIT. Lists various circuits like LTG - EQUIPMENT BAYS, EXT. LTG - BACK ENT. EQ. BAYS, and RECEPS. - SHOP.

PANELBOARD 'RLP1C' (2 SECTIONS)
Table with columns: CKT. NO., CIRCUIT BREAKER, LOAD (AMPS, POLES, KVA, HP), CIRCUIT DESCRIPTION, WIRE & CONDUIT. Lists various circuits like FIRE TRUCK BAY DOOR, FIRE TRUCK BAY DOOR, and AIR COMPRESSOR - SCBA.

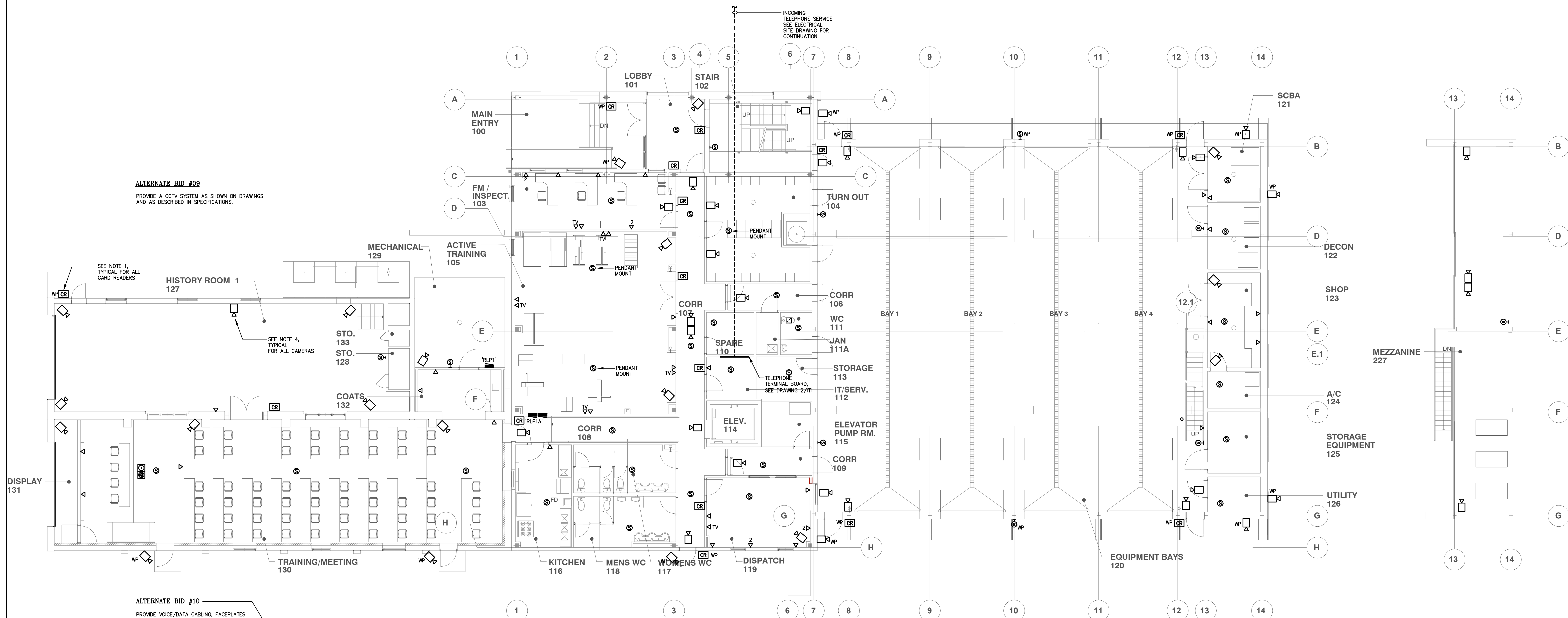
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ALTERNATE BID #09
 PROVIDE A CCTV SYSTEM AS SHOWN ON DRAWINGS AND AS DESCRIBED IN SPECIFICATIONS.

SEE NOTE 1, TYPICAL FOR ALL CARD READERS

SEE NOTE 4, TYPICAL FOR ALL CAMERAS

DISPLAY 131

1 FIRST FLOOR PLAN - INFORMATION TECHNOLOGY
 SCALE 1/8" = 1'-0"

- NOTES:
- PROVIDE 3/4" WITH NETWORK CABLE, AS DIRECTED BY DOOR HARDWARE MANUFACTURER, FROM EACH CARD READER TO IT ROOM 112.
 - ALL SPEAKERS SHALL HAVE INDIVIDUAL ROOM VOLUME CONTROL (TV).
 - COORDINATE LOCATIONS OF ALL SPEAKERS IN HISTORIC FIREHOUSE BUILDING WITH ARCHITECT.
 - BASES OF DESIGN FOR CAMERAS SHALL BE BOSCH FLEXIDOME IP, INDOOR VON-295, OUTDOOR VON-5085 OR APPROVED EQUAL. OWNER MUST APPROVE CCTV SUBMITTAL PRIOR TO RELEASE.

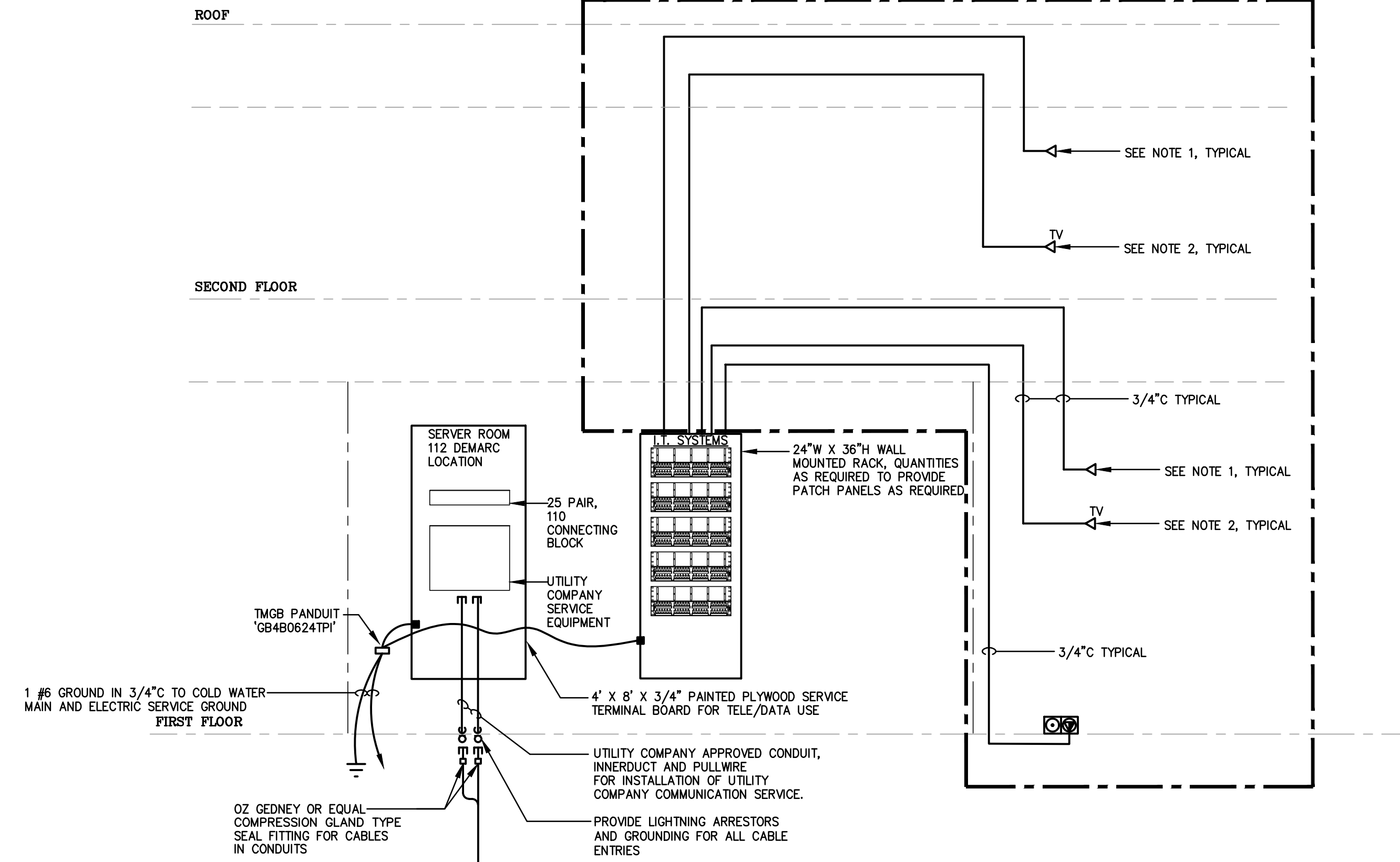
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SYMBOL LIST & ABBREVIATIONS

▽	VOICE/DATA/VIDEO OUTLET - 4" x 4" OUTLET BOX WITH 3/4" STUBBED UP ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE CABLING AND FACEPLATE AS INDICATED ON RISER DIAGRAM. NUMERICAL NEXT TO JACKS INDICATES NUMBER OF CABLES AND RJ45 JACKS
▽ TV	TV OUTLET - 4" x 4" OUTLET BOX WITH 3/4" STUBBED UP ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE CABLING AND FACEPLATE AS INDICATED ON RISER DIAGRAM
CR	CARD READER
□	CAMERA
SP	SPEAKER (CEILING/WALL) PROVIDE WITH VOLUME CONTROL
WP	WEATHERPROOF

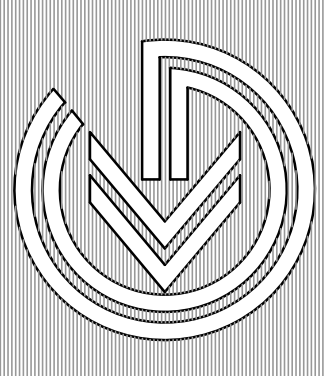
2 TELE./DATA RISER DIAGRAM
 IT1 SCHEMATIC



- NOTES:
- PROVIDE (1) CATEGORY 6 PLENUM RATED CMP 4 PAIR 24 AWG COPPER CABLE TO EACH VOICE DATA OUTLET LOCATION SHOWN ON PLANS. PROVIDE WITH RJ45 JACK AND TERMINATE. PROVIDE DIFFERENT CABLE AND JACK QUANTITIES WHERE NOTED BY NUMERICAL NEXT TO OUTLET SYMBOL.
 - PROVIDE TO EACH TV (1) COAXIAL CABLE AND (1) CATEGORY 6 PLENUM RATED CMP 4 PAIR 24 AWG COPPER CABLE. FACEPLATE SHALL CONTAIN (1) F-TYPE CONNECTOR AND (1) RJ45 JACK. TERMINATE THE COAXIAL CABLE TO THE F-TYPE CONNECTOR AND TERMINATE THE CAT 6 CABLE TO THE RJ45 JACK.
 - ALL VOICE/DATA WIRING AND JACKS SHALL BE PERMANENTLY LABELED TO MATCH CORRESPONDING PATCH PANEL TERMINATION NUMBERS.
 - ALL VOICE/DATA SYSTEMS SHALL BE INSTALLED BY A MANUFACTURER'S CERTIFIED INSTALLER. THE CONTRACTOR SHALL TEST THE COMPLETE SYSTEM INCLUDING ALL WIRE TERMINATIONS, PATCH CABLING, FIBER CABLING, ETC. AND GUARANTEE SYSTEM PERFORMANCE. PROVIDE TYPED TEST RESULT DATA TO OWNER.

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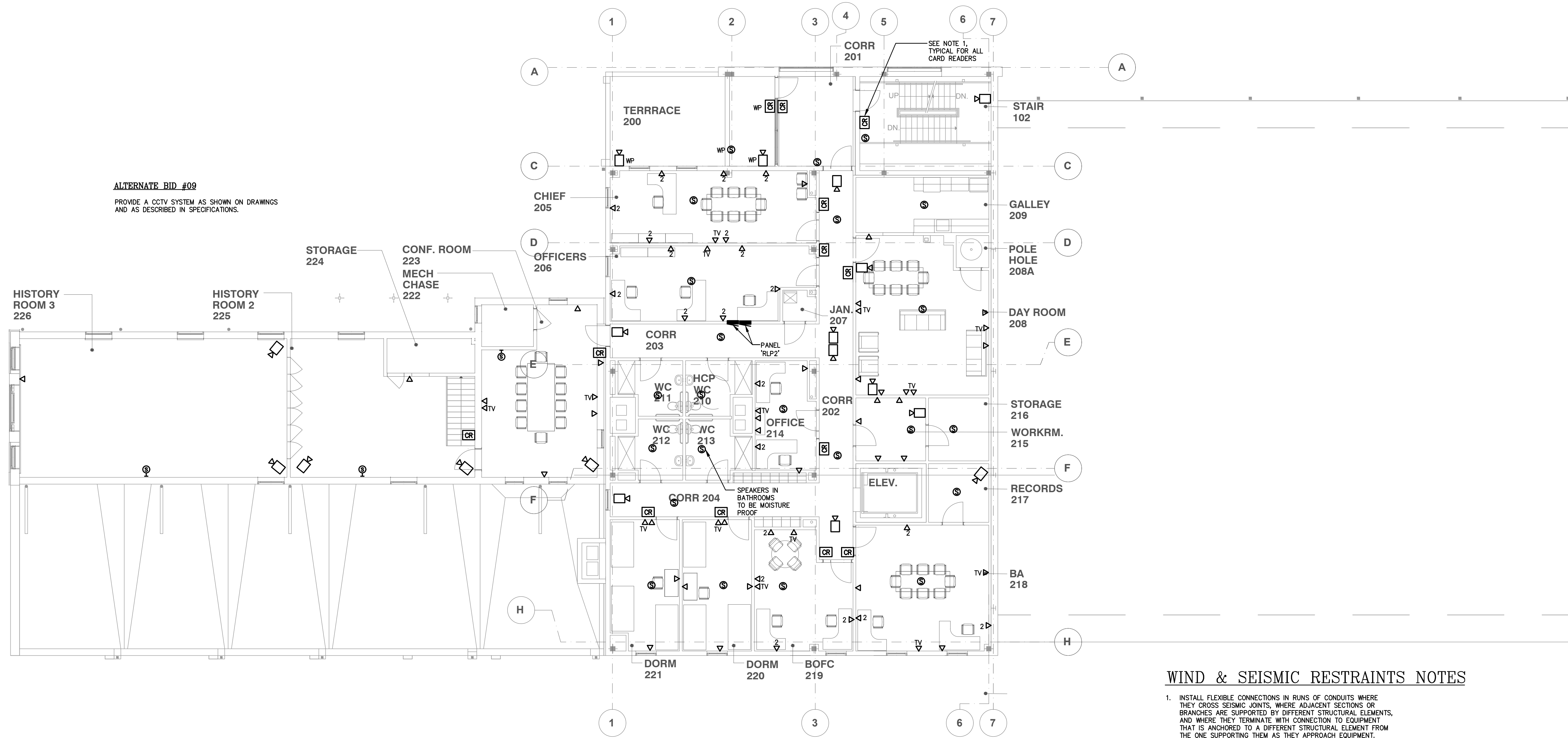
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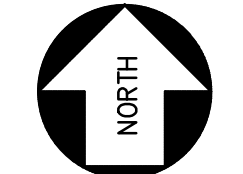
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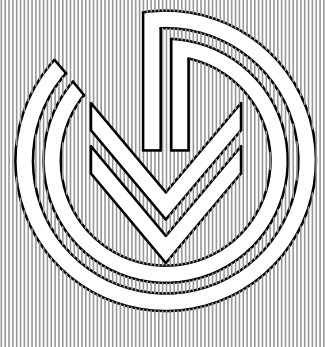
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