

NEW HOPKINS GYMNASIUM

HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

FOR THE HADDONFIELD PUBLIC SCHOOLS BOARD OF EDUCATION

STATE PROJECT #: 07-1900-X01-24-2000

BID SET: 08/13/2026

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE-2021 NEW JERSEY EDITION AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. FOR NEW JERSEY STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING THEMSELVES WITH THE EXISTING CONDITIONS AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS AND COMMENCING WORK.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKPEOPLE, OCCUPANTS AND THE PUBLIC FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
- CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS, APPROVALS, ETC. PRIOR TO COMMENCING WORK AND SHALL SECURE CERTIFICATE OF OCCUPANCY UPON COMPLETION OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE IN AN APPROVED MANNER. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF ANY SALVAGED OR EXCESS MATERIALS AT THE COMPLETION OF THE PROJECT.
- UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF THE EXISTING FACILITY.
- CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF THEIR WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL.
- THE CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
- THE CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL WRITTEN OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
- THE CONTRACTOR SHALL SUBMIT, WHERE REQUIRED, SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO THE START OF FABRICATION OF THOSE ITEMS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
- ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE TO WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE AND OF EQUAL QUALITY.
- ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
- THE ARCHITECT HAS THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED, OR WORK DONE CONTRARY TO THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL GUARANTEE ALL THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS FOR A PERIOD AS WRITTEN IN THE CONTRACT DOCUMENTS AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.
- IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL PROVIDE SAFE AND SANITARY CONDITIONS WHERE DEMOLITION AND WRECKING OPERATIONS ARE BEING CARRIED ON. WORK SHALL BE EXECUTED IN SUCH A MANNER THAT HAZARD FROM FIRE, POSSIBILITY OF INJURY, DANGER TO HEALTH AND CONDITIONS WHICH MAY CONSTITUTE A PUBLIC NUISANCE SHALL BE MINIMIZED.

PROJECT SUMMARY

NEW CONSTRUCTION OF A SINGLE STORY, THE HOPKINS GYM PARCEL NEW GYMNASIUM BUILDING TO BE BUILT ON THE EXISTING HOPKINS PARCEL LOT AT HADDONFIELD MEMORIAL HIGH SCHOOL. NEW CONSTRUCTION WILL BE (A-3) ASSEMBLY OCCUPANCY, TYPE IIB CONSTRUCTION, FULLY SPRINKLERED, THIS BUILDING WILL BE CONSTRUCTED AS SLAB ON GRADE WITH CONCRETE AND BLOCK FOUNDATIONS AND FOOTINGS. THE EXTERIOR ENVELOPE WILL FEATURE BRICK MASONRY, CAST-STONE DETAILS, AND TRANSLUCENT DAYLIGHTING SANDWICH PANELS. BEARING CMU AND STEEL COLUMNS WILL SUPPORT THE STEEL JOIST ROOF, METAL DECK AND SINGLE PLY MEMBRANE ROOFING SYSTEM.

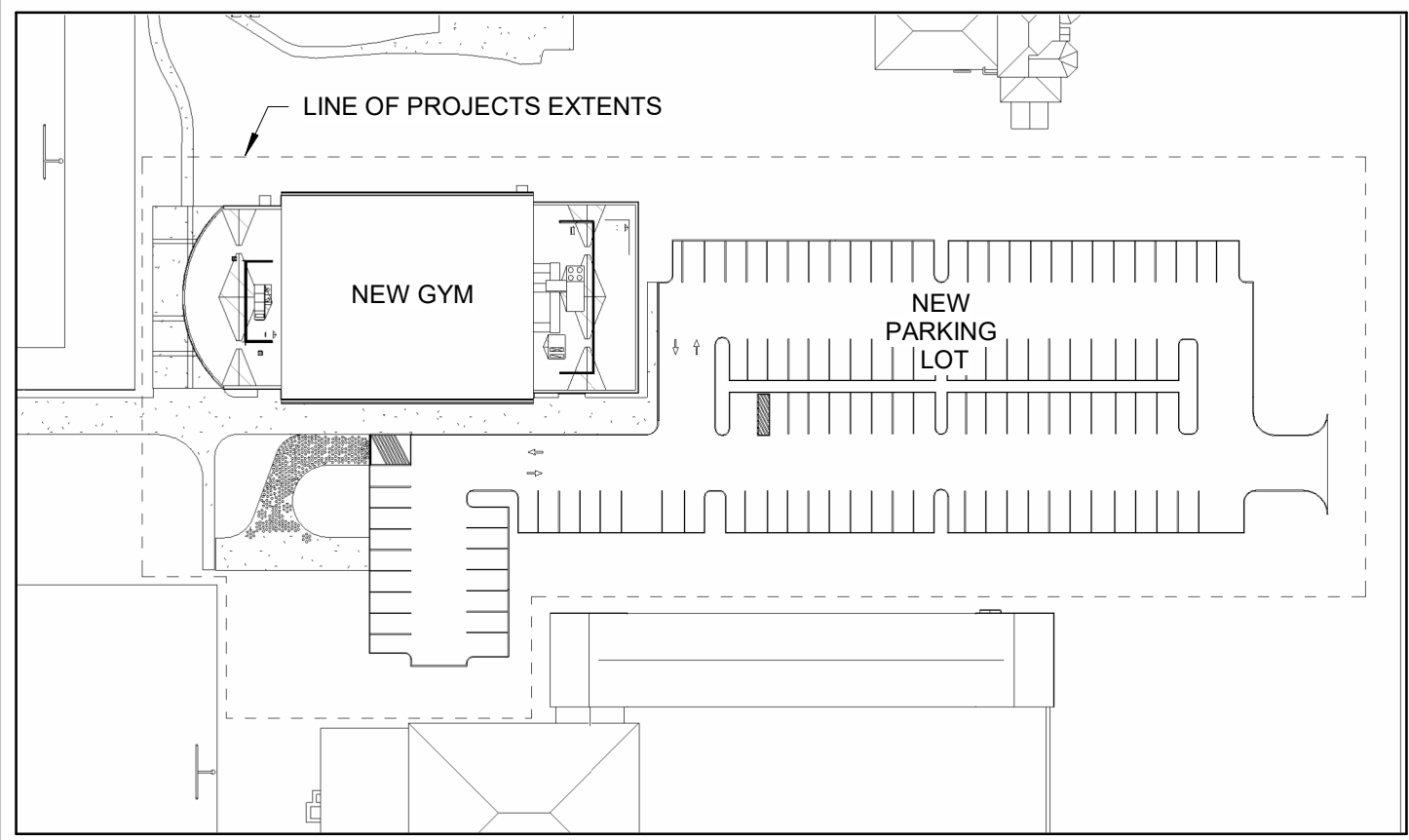
THE PROGRAM OF THIS BUILD INCLUDES: A HIGH SCHOOL BASKETBALL GYM, A WRESTLING GYM WITH AN OFFICE, LOCKER ROOMS, TRAINERS ROOM, TOILET ROOMS, SHOWER ROOM, ELECTRICAL AND PLUMBING ROOM, AND STORAGE ROOMS.

THE SITE WORK ON THIS CLEARED AND DEVELOPED SITE WILL INCLUDE A PARKING LOT THAT WILL SERVE THE NEW GYM, SITE LIGHTING, AND LANDSCAPING.

LOCATION MAP



KEY PLAN



LEGEND AND SYMBOLS

BUILDING SECTION	DWG. NO. 2 SHEET NO. A4.01	DOOR TAG	01
BUILDING ELEVATION	DWG. NO. 2 SHEET NO. A3.01	WINDOW TAG	W1
DETAIL	DETAIL NO. 2 SHEET NO. A6.01	EQUIPMENT TAG	101
INTERIOR ELEVATIONS	DWG. NO. 1 SHEET NO. 4 A7.01 2 3	PLUMBING FIXTURE TAG	P-1
REVISION CLOUD AND TAG	1	CONSTRUCTION KEY NOTE	#
		DEMOLITION KEY NOTE	#
		WALL TYPE	1
DRAWING TITLE	DWG. NO. 2 SHEET NO. A6.01	ROOM TAG	ROOM NAME BATHROOM
	DWG. SCALE 1/8" = 1'-0"	ROOM NO.	101

ABBREVIATIONS

A/C	AIR CONDITIONING	ID	INSIDE DIAMETER
ACT	ACOUSTICAL CEILING TILE	INSUL	INSULATION
ADJ	ADJUSTABLE	LL	LANDLORD
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ALUM	ALUMINUM	MEP	MECHANICAL, ELECTRICAL, & PLUMBING
AMP	AMPERE	MFR	MANUFACTURER
ARCH	ARCHITECT	MIN	MINIMUM
BLDG	BUILDING	MO	MASONRY OPENING
BOH	BACK OF HOUSE	MTL	METAL
BOD	BOTTOM OF DECK	NIC	NOT IN CONTRACT
CAB	CABINET	NTS	NOT TO SCALE
CJ	CONTROL JOINT	OA	OVERALL
CL	CENTER LINE	OC	ON CENTER
CLG	CEILING	OD	OUTSIDE DIAMETER
CM	CONSTRUCTION MANAGER	OH	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	PLAM	PLASTIC LAMINATE
COL	COLUMN	PM	PROJECT MANAGER
CONC	CONCRETE	POS	POINT OF SALE
CONT	CONTINUED	PT	PRESSURE TREATED
CTR	CERAMIC TILE CENTER	PTD	PAINTED
DEG	DEGREE	R	RADIUS
DET	DETAIL	REF	REFERENCE
DIA	DIAMETER	REQ'D	REQUIRED
DM	DIMENSION	REV	REVISION
DN	DOWN	RO	ROUGH OPENING
(E)	EXISTING	SC	SOLID CORE
EA	EACH	SF	SQUARE FEET
EJ	EXPANSION JOINT	SIM	SIMILAR
EL	ELEVATION	SPEC	SPECIFICATION
EQ	EQUAL	SQ	SQUARE
ETR	EXISTING TO REMAIN	SS	STAINLESS STEEL
EXIST	EXISTING	STG	STORAGE
EXT	EXTERIOR	STL	STEEL
FEC	FIRE EXTINGUISHER CABINET	TEMP	TEMPORARY
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT	TOS	TOP OF STEEL
FLR	FLOOR	TYP	TYPICAL
FT	FOOT/FEET	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	VCB	VINYL COVE BASE
GC	GENERAL CONTRACTOR	VCT	VINYL COMPOSITE TILE
GWB	GYPSON WALLBOARD	VERT	VERTICAL
GYP	GYPSON BOARD	VIF	VERIFY IN FIELD
HC	HOLLOW CORE	VT	VINYL TILE
HDW	HARDWARE	WD	WOOD
HM	HOLLOW METAL	WH	WATER HEATER
HORIZ	HORIZONTAL	WI	WITH
HR	HOUR		
HT	HEIGHT		
HVAC	HEATING, VENTILATING, & AIR CONDITIONING		

DRAWING INDEX

SHEET NO.	TITLE	SHEET NO.	TITLE
TITLE SHEET		S1.10	GIRT FRAMING PLAN
T0.01	COVER SHEET	S1.20	ROOF FRAMING PLAN
T0.02	ACCESSIBILITY & NOTES	S2.00	TYPICAL CONCRETE DETAILS
T0.03	LIFE SAFETY PLAN & CODES	S2.10	TYPICAL MASONRY DETAILS
CIVIL		S2.11	TYPICAL MASONRY DETAILS
C1.00	NOTES	S2.20	TYPICAL STEEL DETAILS
C1.01	PROPOSED DEMOLITION PLAN	S3.00	FOUNDATION SECTIONS
C2.01	PROPOSED SITE PLAN	S3.10	GIRT FRAMING SECTIONS
C3.01	PROPOSED GRADING PLAN	S3.20	ROOF FRAMING SECTIONS
C4.01	PROPOSED UTILITY PLAN	S4.00	WRESTLING ROOF JOISTS
C8.01	PROPOSED SESC PLAN	S4.10	MAIN GYM ROOF JOISTS
C8.02	SESC NOTES AND DETAILS	S4.20	ENTRANCE ROOF JOISTS
C9.01	CONSTRUCTION DETAILS	MECHANICAL	
C9.02	CONSTRUCTION DETAILS	M0.01	NOTES, SYMBOLS, & APPREVIATIONS
C9.03	CONSTRUCTION DETAILS	M2.01	FIRST FLOOR PLAN
C9.04	CONSTRUCTION DETAILS	M2.02	MECHANICAL SCHEDULES AND DETAILS
C9.05	CONSTRUCTION DETAILS	M6.01	MECHANICAL SCHEDULES AND DETAILS
LANDSCAPING		M6.02	MECHANICAL DETAILS AND CONTROL DIAGRAMS
L1.01	PROPOSED LANDSCAPING PLAN	PLUMBING	
ARCHITECTURAL		P2.01	1ST FLOOR PLUMBING PLAN - SANDOM
A2.01	FLOOR PLAN	P2.02	1ST FLOOR PLUMBING PLAN - STORMIGAS
A2.02	CLERESTORY PLAN	P2.03	PLUMBING ROOF PLAN
A2.03	PLAN DETAILS	P4.01	ENLARGED PLUMBING PLANS
A2.04	CLERESTORY PLAN DETAILS	P5.01	PLUMBING RISERS
A2.05	ROOF PLAN	P5.02	PLUMBING RISERS & DETAILS
A2.06	ROOF DETAILS	P5.03	GAS RISERS & DETAILS
A3.01	BUILDING ELEVATIONS	P6.01	PLUMBING SCHEDULE & DETAILS
A3.02	ELEVATIONS DETAILS	FIRE PROTECTION	
A4.00	PARTITION TYPES	FP0.01	FIRE PROTECTION NOTES
A4.01	BUILDING SECTIONS	FP1.01	FIRE PROTECTION PLAN
A4.02	WALL SECTIONS @ MAIN GYM	FP5.01	FIRE PROTECTION DETAILS
A4.03	WALL SECTIONS @ WRESTLING GYM	FP5.02	FIRE PROTECTION DETAILS
A4.04	WALL SECTIONS @ LOBBY	ELECTRICAL	
A4.05	WALL DETAILS @ MAIN GYM	E0.01	ELECTRICAL LEGEND
A4.06	WALL DETAILS @ WRESTLING GYM & LOBBY	E0.02	ELECTRICAL GENERAL NOTES
A4.07	WALL DETAILS @ VARIOUS LOCATIONS	E2.01	ELECTRICAL 1ST FLOOR POWER PLAN
A6.01	DOOR SCHEDULE, DOOR TYPES & DETAILS	E2.02	ELECTRICAL ROOF POWER PLAN
A6.02	FIBERGLASS SANDWICH PANEL SCHEDULE & DETAILS	E2.03	ELECTRICAL PARTIAL POWER PLAN
A7.01	MAIN GYM STRIPING PLAN	E3.01	ELECTRICAL SITE PLAN
A7.02	ENLARGED ELEVATIONS @ MAIN GYM	E5.01	ELECTRICAL 1ST FLOOR LIGHTING PLAN
A7.03	ENLARGED ELEVATIONS @ MAIN GYM CONT.	E5.02	ELECTRICAL SITE & LIGHTING PLAN PHOTOMETRICS
A7.04	ENLARGED ELEVATIONS @ WRESTLING ROOM	E5.51	ELECTRICAL LIGHTING NOTES
A7.05	ENLARGED PLANS AND ELEVATIONS @ LOCKER ROOMS & TRAINER'S ROOM	E5.52	ELECTRICAL LIGHTING CONTROLS WIRING & CONNECTION DIAGRAM
A7.06	ENLARGED PLANS AND ELEVATIONS @ TOILET ROOMS	E6.01	ELECTRICAL SINGLE LINE
A9.01	ENLARGED FINISH PLAN	E6.02	ELECTRICAL PANEL SCHEDULES
STRUCTURAL		E7.01	ELECTRICAL DETAILS I
S0.00	STRUCTURAL LEAD SHEET & SCHEDULES	E7.02	ELECTRICAL DETAILS II
S0.10	STRUCTURAL LEAD SHEET & SCHEDULES	E7.03	ELECTRICAL DETAILS III
S0.20	STRUCTURAL SPECIAL INSPECTION TABLES	E7.04	ELECTRICAL DETAILS IV
S1.00	FOUNDATION PLAN	FIRE ALARM	
		FA0.01	FIRE ALARM GENERAL NOTES
		FA0.02	FIRE ALARM RISER DIAGRAM
		FA2.01	FIRE ALARM 1ST FLOOR PLAN
		FA3.01	FIRE ALARM DETAILS

APPLICABLE CODES

USE GROUP/OCCUPANCY
USE GROUP "A3" (ASSEMBLY -3)

APPLICABLE CODES
THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODE REQUIREMENTS AND OTHER REGULATORY AGENCIES INCLUDING, BUT NOT LIMITED TO:

BUILDING SUBCODE (NJAC 5:23-3.14) **INTERNATIONAL BUILDING CODE/2021, NJ ED**
PLUMBING SUBCODE (NJAC 5:23-3.15) **NATIONAL STANDARD PLUMBING CODE/2021, NJ ED**
ELECTRICAL SUBCODE (NJAC 5:23-3.16) **NATIONAL ELECTRICAL CODE (NFPA 70)/2020**
ENERGY SUBCODE (NJAC 5:23-3.18) **ASHRAE 90.1-2019 (COMMERCIAL)**
MECHANICAL SUBCODE (NJAC 5:23-3.20) **INTERNATIONAL MECHANICAL CODE/2021**
FUEL GAS SUBCODE (NJAC 5:23-3.22) **INTERNATIONAL FUEL GAS CODE/2021**
REHABILITATION SUBCODE (NJAC 5:23-9) **NUJCC, SUBCHAPTER 6**
BARRIER FREE SUBCODE (CHAPTER 11 OF IBC/2021 & NJAC 5:23-7) **ICC A117.1-2017**
NJ UNIFORM CONSTRUCTION CODE **TITLE 6, CHAPTER 23, SUB-CHAPTERS 1-12**
* SEE "ASME" WITHIN CHAPTER 35 OF IBC/2021

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR ANY OTHER REGIONAL, STATE, OR FEDERAL REGULATIONS.

UNLESS OTHERWISE NOTED SPECIFIC REFERENCES TO CODES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS, OR REQUIREMENTS OF REGULATORY AGENCIES, WHEN USED TO SPECIFY REQUIREMENTS FOR MATERIALS OF DESIGN ELEMENTS SHALL MEAN THE LATEST EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BIDS, OR THE DATE OF THE CHANGE OF ORDER, OR FIELD DIRECTIVE AS APPLICABLE.

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27837800
Arch. Nos.	21AC00012400
Date	8/13/2026
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.
THE REGISTERED ARCHITECT License No. NJ21A02015400

Date Description

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Engineering,
Planning,
Architecture,
Surveying Inc.

LAN ASSOCIATES

COVER SHEET
NEW HOPKINS GYMNASIUM

HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

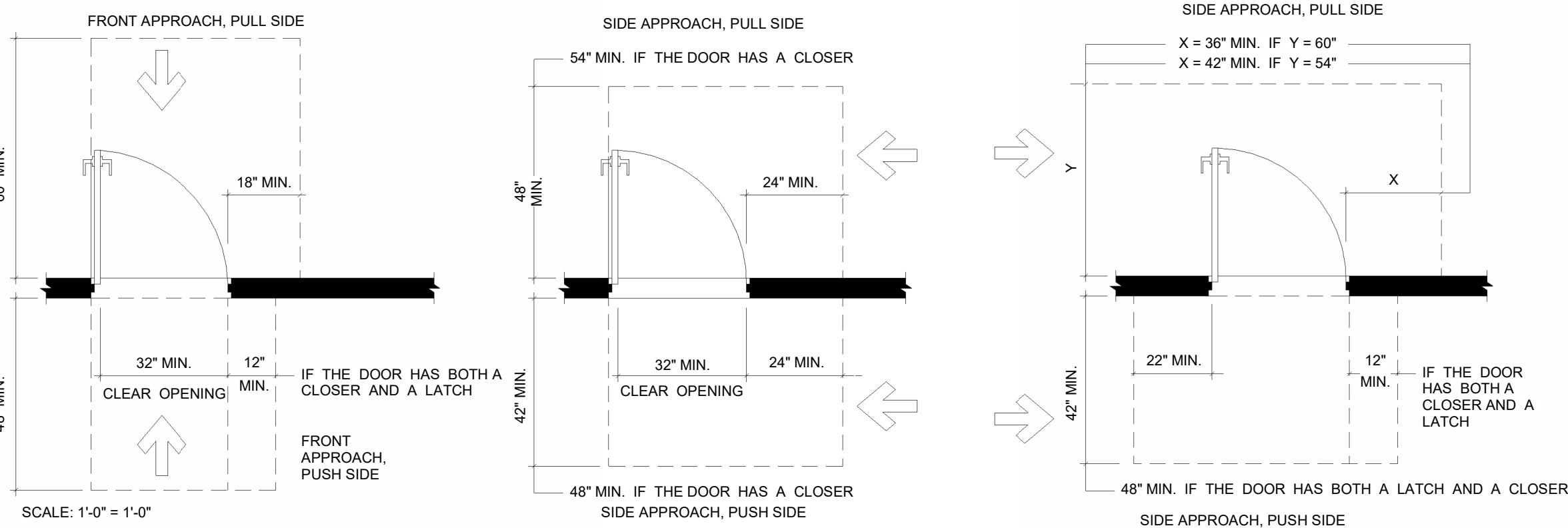
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ACCESSIBLE CLEARANCES:

APPLICATION: THE A117.1-2009 APPLIES TO THE ENTIRE BUILDING AND SITE, INCLUDING, BUT NOT LIMITED TO ALL CLASSROOM, SUPPORT, COMMON SPACES, AND EXTERIOR ACCESSIBILITY WITHIN THE SITE BOUNDARY. SEE CIVIL ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWINGS FOR ALL EXTERIOR SIDEWALK AND PARKING LOT RELATED COMPLIANCE INFORMATION

ANSI A117.1 - CHAPTER 4: ACCESSIBLE ROUTES & CHAPTER 3 BUILDING BLOCKS

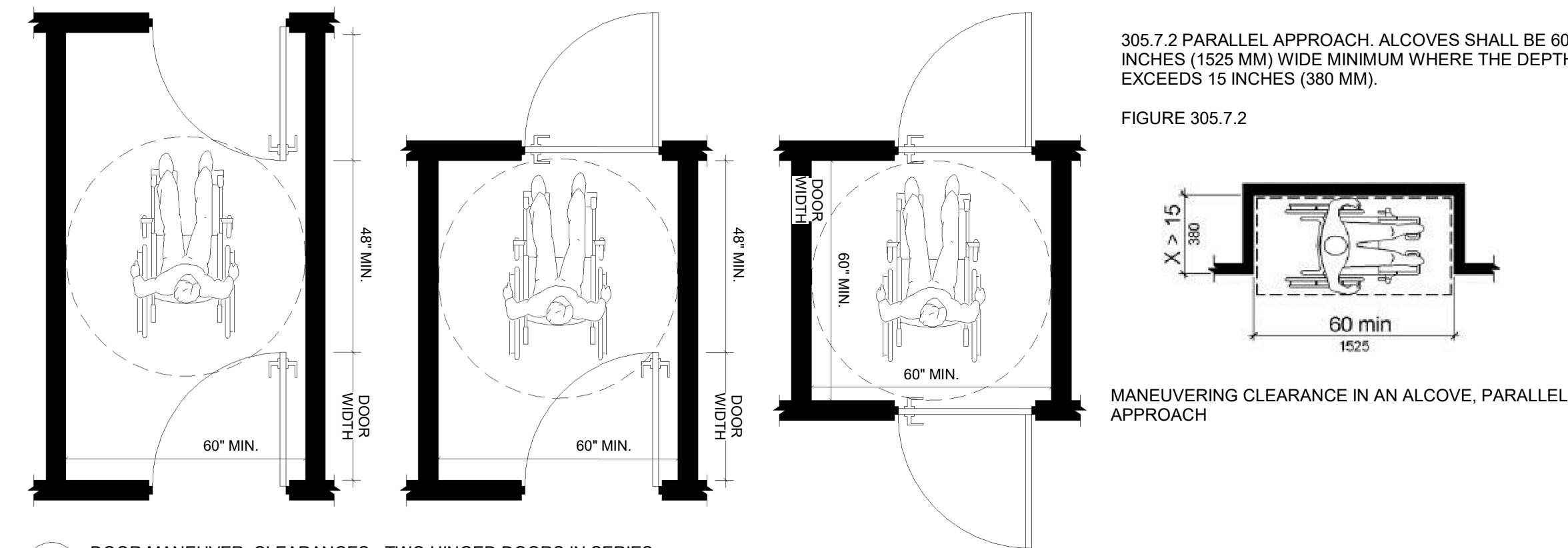


A DOOR MANEUVER, CLEARANCES
N.T.S.

B DOOR MANEUVER, CLEARANCES
N.T.S.

C DOOR MANEUVER, CLEARANCES
N.T.S.

ANSI A117.1 - CHAPTER 3: BUILDING BLOCKS

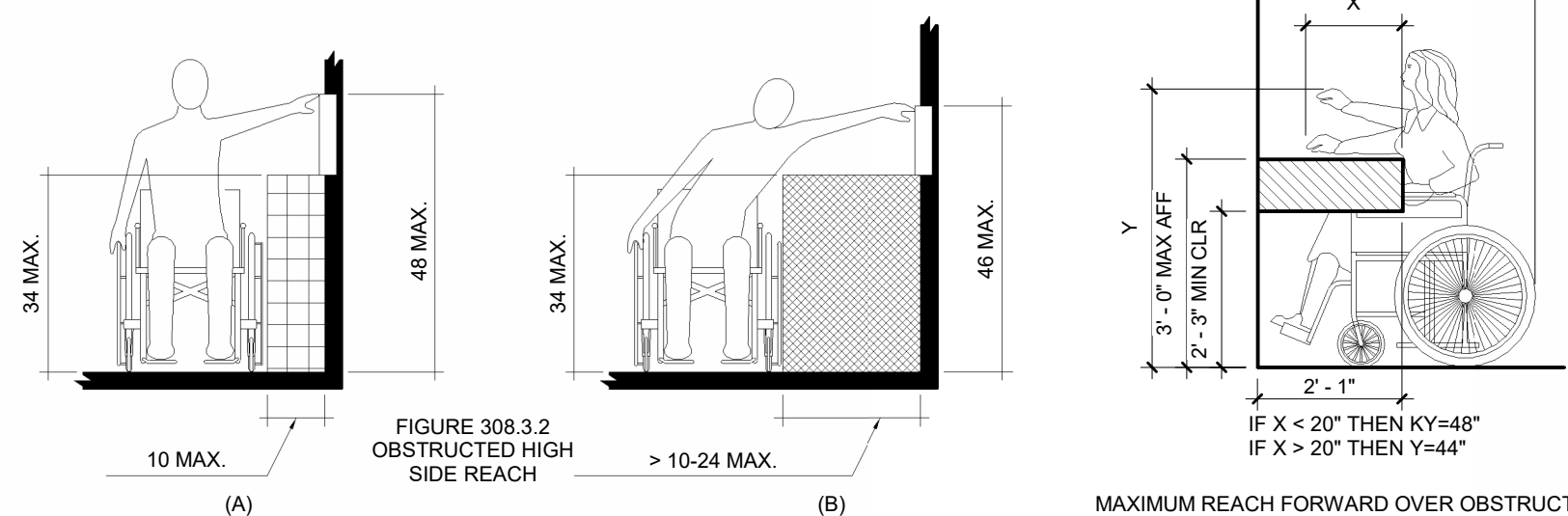


D DOOR MANEUVER, CLEARANCES - TWO HINGED DOORS IN SERIES
N.T.S.

ADA - ACCESSIBLE ROUTE
N.T.S.

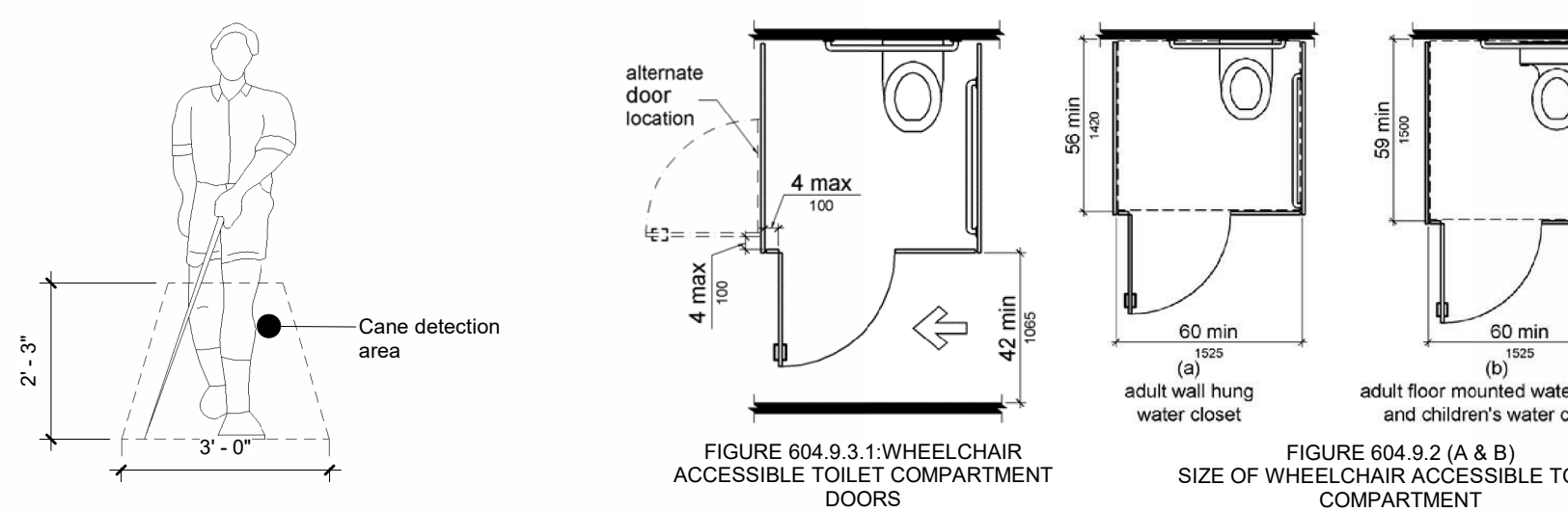
ADA STANDARDS FOR ACCESSIBLE DESIGN 2010

APPLICATION: THE ADA 2010 STANDARD APPLIES TO THE ENTIRE BUILDING AND SITE, INCLUDING, BUT NOT LIMITED TO ALL CLASSROOM, SUPPORT, COMMON SPACES, AND EXTERIOR ACCESSIBILITY WITHIN THE SITE BOUNDARY. SEE CIVIL ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWINGS FOR ALL EXTERIOR SIDEWALK AND PARKING LOT RELATED COMPLIANCE INFORMATION



ACCESSIBLE SIDE REACH
3/8" = 1'-0"

ACCESSIBLE FORWARD REACH
3/8" = 1'-0"

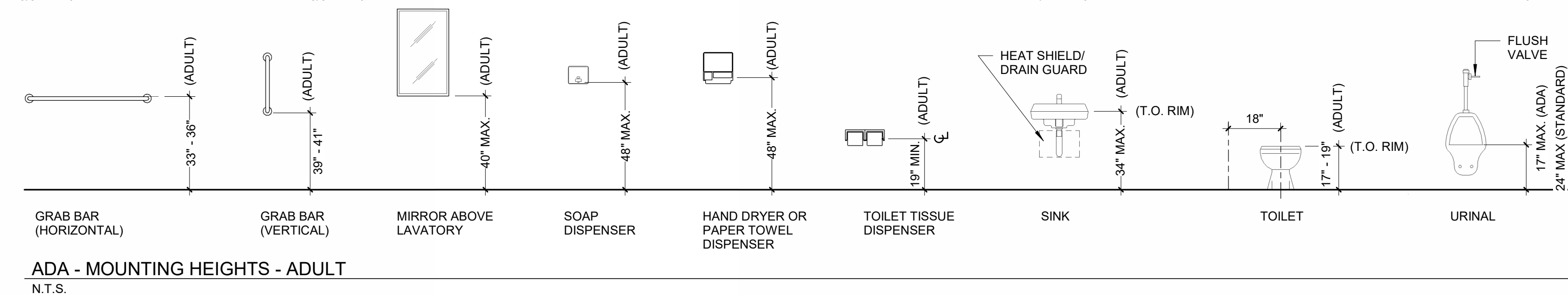


CANE DETECTION
3/8" = 1'-0"

ACCESSIBLE PUBLIC TOILET STALL
3/8" = 1'-0"

ACCESSIBLE SHOWER DETAILS
1/2" = 1'-0"

TYPICAL GRAB BAR DETAIL
1/2" = 1'-0"



ADA - MOUNTING HEIGHTS - ADULT
N.T.S.

ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC A117.1-2017 NATIONAL STANDARD

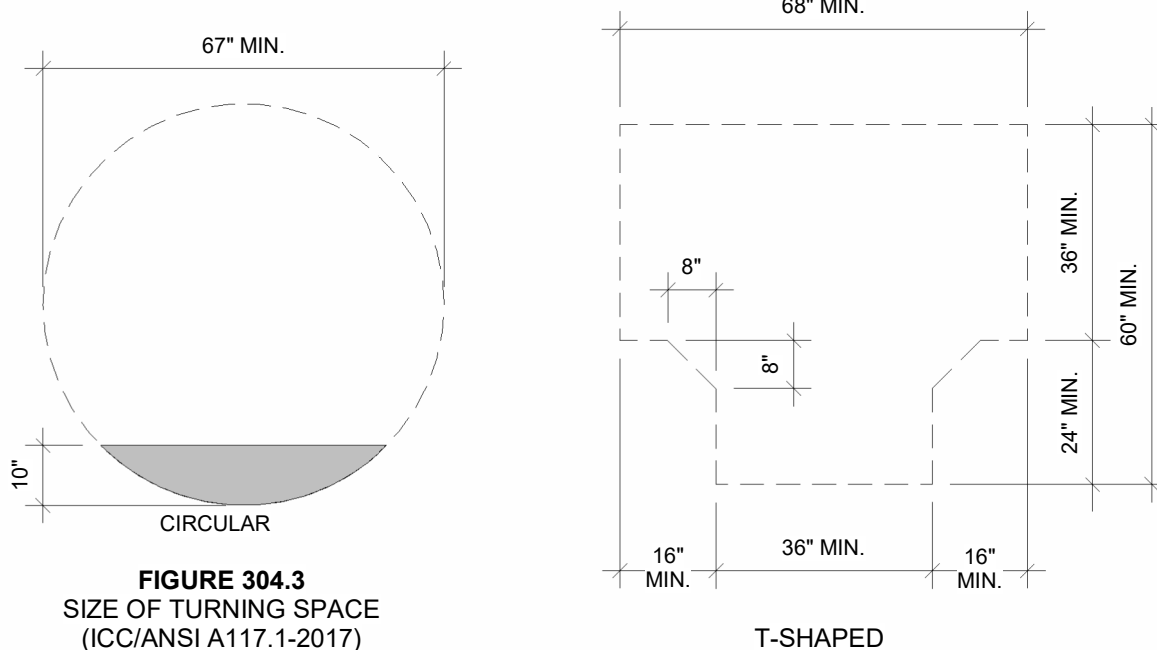


FIGURE 304.3
SIZE OF TURNING SPACE
(ICC/ANSI A117.1-2017)

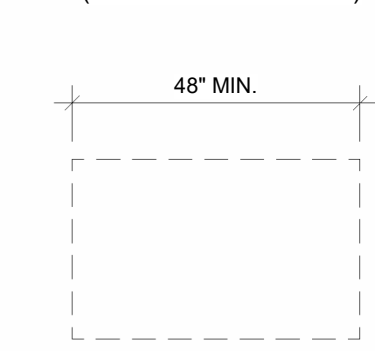


FIGURE 305.3
SIZE OF CLEAR FLOOR SPACE
(ICC/ANSI A117.1-2017)

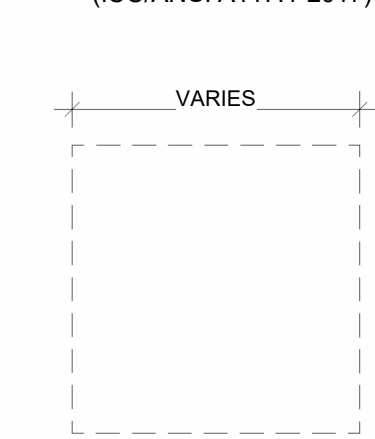


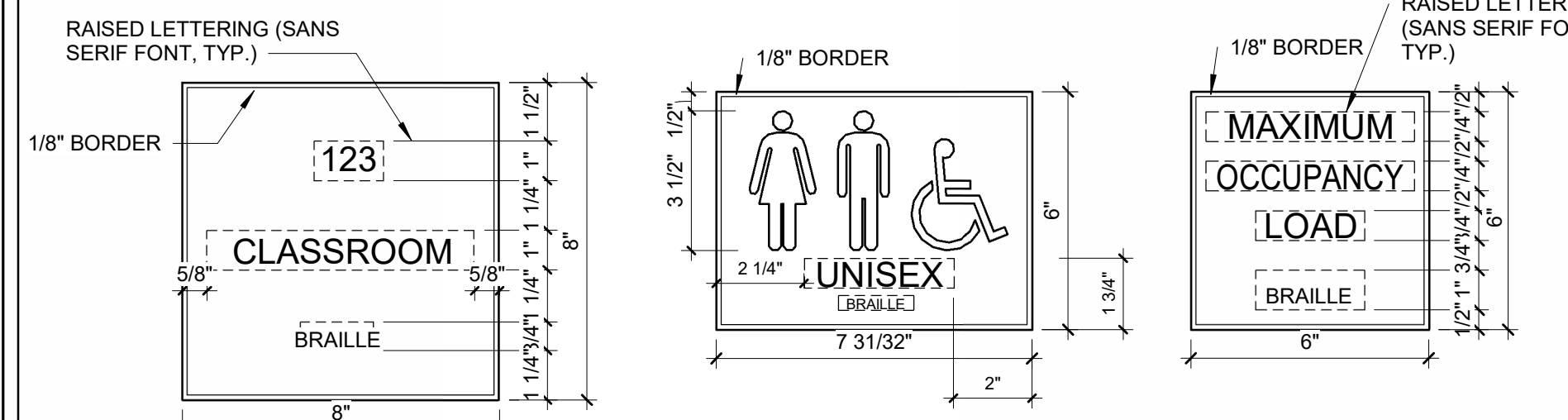
FIGURE 404.2.3.2
MANEUVERING CLEARANCE AT
MANUAL SWINGING DOORS
(ICC/ANSI A117.1-2017)

ADA - TURNING SPACES
N.T.S.

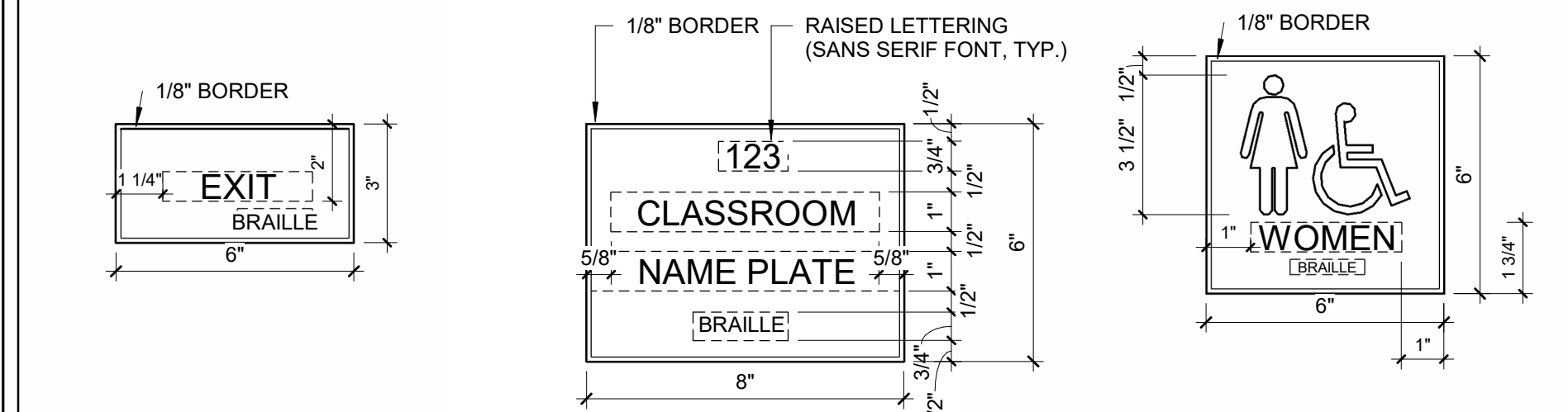
INTERIOR SIGNAGE

GENERAL INTERIOR SIGNAGE NOTE:

- RE: ELECTRICAL DRAWINGS FOR ALL ELECTRICAL EGRESS EXIT SIGN LOCATIONS
- RE: CIVIL DRAWINGS FOR ALL EXTERIOR PARKING AND SIGN LOCATIONS
- SIGNAGE SHALL BE SURFACE MOUNTED, MANUFACTURER STANDARD THICKNESS, ACRYLIC OR PHENOLIC PLATE WITH SURFACE APPLIED GRAPHICS. TACTILE SIGNS TO CONTAIN BOTH RAISED CHARACTERS & BRAILLE.
- TACTILE SIGNS RAISED CHARACTER HEIGHT TO BE 5/8" MIN & BE SANS SERIF TEXT AND TYPEFACE SHALL BE ACCESSIBLE RAISED CHARACTERS AND BRAILLE, AND WITH VARIABLE CONTENT AS SCHEDULED.
- BACKGROUND AND LETTERING COLORS TO BE SELECTED BY ARCHITECT.
- TACTILE SIGNS BRAILLE TO BE GRADE 2 & COMPLY WITH TABLE 703.4.3 IN 2017 ANSI.
- TACTILE SIGNS BRAILLE TO BE 3/8" MIN AWAY FROM OTHER RAISED CHARACTERS, BORDERS, & DECORATIVE ELEMENTS
- TACTILE SIGNS TO BE MOUNTED 54" (48" MIN) FROM FINISH FLOOR TO BOTTOM OF TACTILE LETTERING.
- TACTILE SIGNS TO BE MOUNTED 54" (48" MIN) FROM FINISH FLOOR TO BOTTOM OF TACTILE LETTERING.
- TACTILE SIGNS CHARACTERS/PICTOGRAMS/SYMBOLS OF ACCESSIBILITY & BACKGROUND TO BE NON-GLARE.
- TACTILE SIGNS TO CONTAIN EITHER LIGHT CHARACTERS/PICTOGRAMS/SYMBOLS OF ACCESSIBILITY ON A LIGHT BACKGROUND, OR DARK CHARACTERS/PICTOGRAMS/SYMBOLS OF ACCESSIBILITY ON A DARK BACKGROUND.
- TACTILE SIGNS TO BE LOCATED SO THAT A CLEAR FLOOR AREA OF 18" BY 18" MIN, CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING, WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.
- PICTOGRAMS TO HAVE A 6" MIN FIELD & NOT CONTAIN CHARACTERS OR BRAILLE.
- "YOU ARE HERE" EGRESS / EVACUATION MAPS REQUIRED AT ALL LOCATION DETERMINED BY AHJ OR FIRE MARSHALL
- COORDINATE EXACT ROOM TEXT AND LOCATION WITH OWNER.



SIGNAGE TYPE: 1 SIGNAGE TYPE: 2 SIGNAGE TYPE: 3



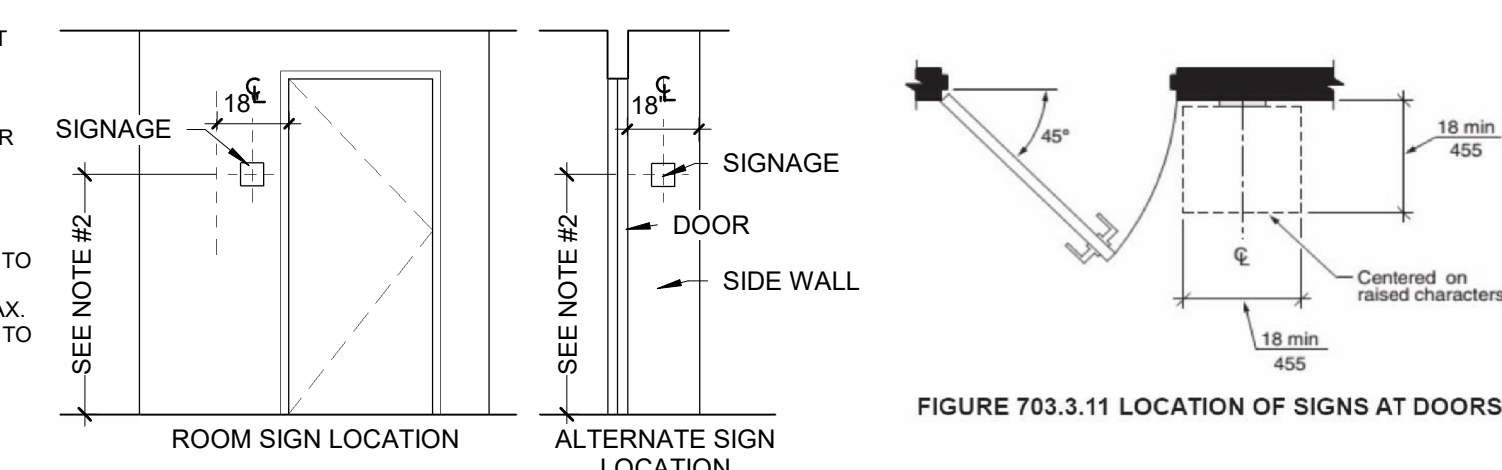
SIGNAGE TYPE: 4 SIGNAGE TYPE: 5 SIGNAGE TYPE: 6



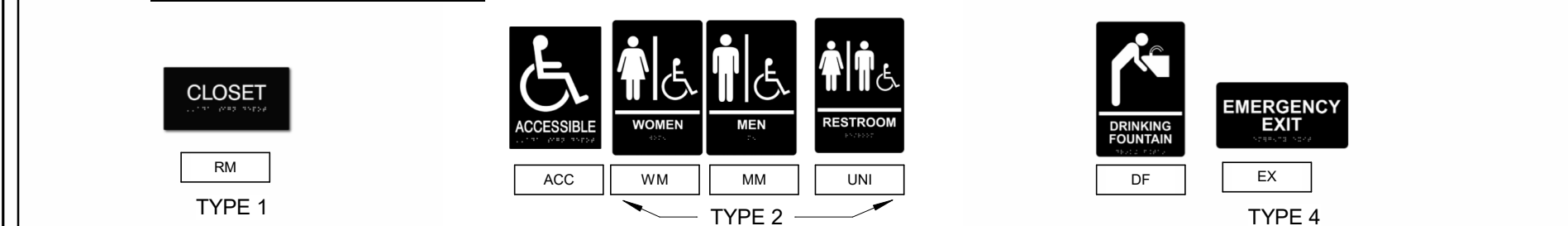
SIGNAGE TYPE: 7

NOTE:

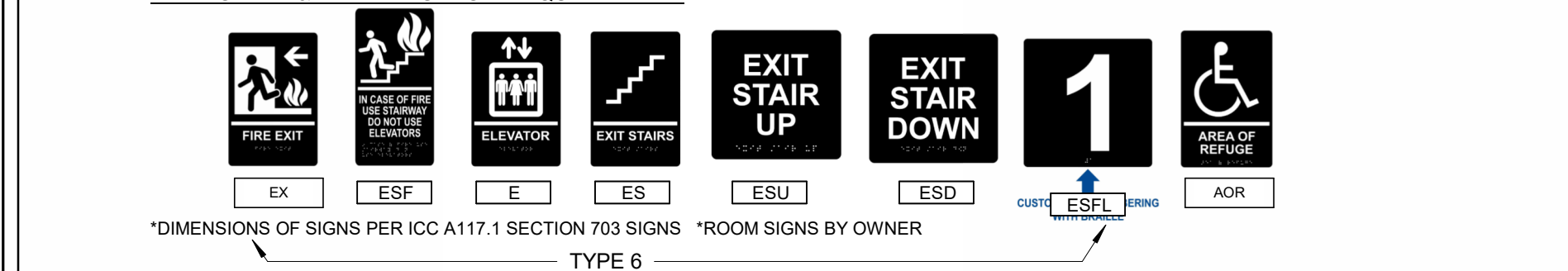
- IF WALL LOCATION DOES NOT PERMIT FOR THE SIGN TO BE PLACED AS SHOWN, USE THE ALTERNATE SIGN LOCATION AND/OR COORDINATE W/ OWNER PRIOR TO INSTALLATION.
- RAISED CHARACTERS SHALL BE 40" MIN. ABOVE THE FLOOR VIEWING POSITION, MEASURED TO THE BASELINE OF THE LOWEST RAISED CHARACTER AND 70" MAX. ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE HIGHEST RAISED CHARACTER.



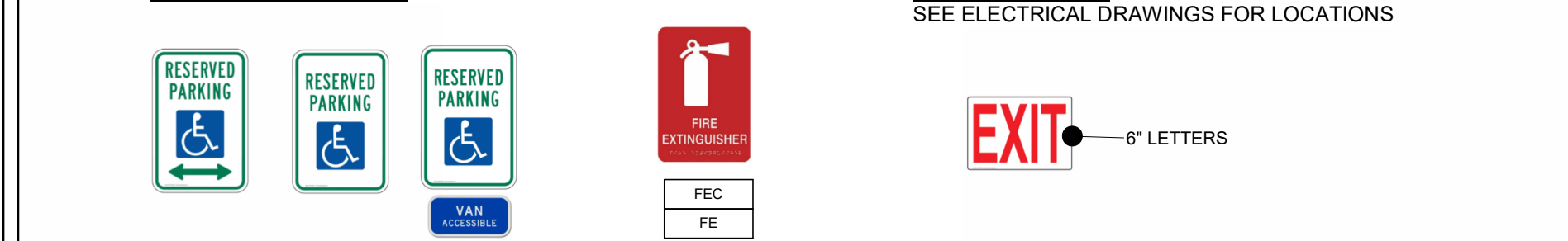
ACCESSIBLE SIGNAGE LEGEND:



EXIT EGRESS & STAIRS SIGNAGE: REQUIREMENTS.



PARKING SIGN LEGEND: SEE CIVIL DRAWINGS FOR LOCATIONS



EXIT
6" LETTERS

State Project #: 07-1900-X01-24-2000

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JEFFREY POTTER, R.A.	
Title REGISTERED ARCHITECT License No. NJ21A02015400	

Date	Description

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ACCESSIBILITY & NOTES
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033

Job No. 2.20277.25.14
File No.

T0.02

NAME _____ ROOM/SPACE NAME 5 OCC _____ MAX. # OF OCCUPANTS 300 SF _____ ROOM/SPACE SQ. FT.	
	TOTAL # OF OCCUPANTS EXIT ACCESS TRAVEL DISTANCE TOTAL # OF OCCUPANTS MAXIMUM EXIT ACCESS TRAVEL DISTANCE
SYMBOL DENOTES AN ACCESSIBLE MEANS OF EGRESS TO GRADE	
EGRESS ELEMENT NOTES	
NOTE #1 DOUBLE LEAF DOOR: 6' - 0" (3' - 0" PER LEAF) ACTUAL CLEAR WIDTH: 5' - 8" (NO CENTER MULLION) EGRESS CAPACITY: (SPRINKLERED) 68.5' / 0.15" = <u>456 OCCUPANTS</u> (NON-SPRINKLERED) 68.5' / 0.20" = <u>342 OCCUPANTS</u>	
NOTE #2 SINGLE LEAF DOOR: 3' - 0" ACTUAL CLEAR WIDTH: 2' - 9 5/8" EGRESS CAPACITY: (SPRINKLERED) 33.5' / 0.15" = <u>223 OCCUPANTS</u> (NON-SPRINKLERED) 33.5' / 0.20" = <u>167 OCCUPANTS</u>	
NOTE #3 (IBC-NJ 1005.3.1.1 & 1005.3.2.1) EGRESS CAPACITY FACTOR: STAIRWAY = (SPRINKLERED, OTHER THAN GROUP H & I-2) 0.2" PER OCCUPANT (NON-SPRINKLERED) 0.3" PER OCCUPANT COMPONENTS OTHER THAN STAIRWAYS = (SPRINKLERED, OTHER THAN GROUP H & I-2) 0.15" PER OCCUPANT (NON-SPRINKLERED) 0.2" PER OCCUPANT	

PROJECT: NEW HOPKINS GYM
LOCATION: HADDONFIELD MEMORIAL HIGHSCHOOL
USE GROUP: A-3 ASSEMBLY
CLIMATE ZONE: 4A (ASHRAE 90.1-2019, TABLE B1-1)
CONSTRUCTION CLASSIFICATION: TYPE II-B, NON-COMBUSTIBLE, SPRINKLERED (IBC-NJ, SECTION 602.2, TABLE 601 & 602)

CHAPTER 5 GENERAL BUILDING HEIGHT AND AREAS

503.1.2 BUILDINGS ON SAME LOT

504 BUILDING HEIGHT AND NUMBER OF STORIES
TABLE 504.3: ALLOWABLE BUILDING HEIGHT IN FEET: 75' -0"
TABLE 504.4: ALLOWABLE # OF STORIES ABOVE GRADE PLANE: 3 STORIES

506 ALLOWABLE AREA FACTOR
TABLE 506.2: ALLOWABLE AREA: 38,000 SF
PROPOSED AREA: 15,923 SF

CHAPTER 6 TYPES OF CONSTRUCTION

BUILDING ELEMENTS (HOURS)	TYPE IIB
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
NONBEARING WALLS AND PARTITION EXTERIOR	0
NONBEARING WALLS AND PARTITION INTERIOR	0
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0

602.2 TYPE II-B NON-COMBUSTIBLE, SPRINKLERED
TYPE IIB IS THE TYPE OF CONSTRUCTION WHERE THE EXTERIOR BUILDING ELEMENTS SPECIFIED IN TABLE 601 ARE OF NON-COMBUSTIBLE MATERIALS, AND INTERIOR BUILDING ELEMENTS ARE ANY MATERIAL SPECIFIED ANYWHERE IN THE CODE.

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES

SPRINKLERED: 1 FIRE AREA OF 15,830 SF

707.4 EXTERIOR WALL
WHERE EXTERIOR WALLS SERVE AS PART OF A FIRE SEPARATION, SUCH WALLS SHALL NOT HAVE TO COMPLY WITH FIRE-RESISTANCE RATED ENCLOSURES.

CHAPTER 8 INTERIOR FINISHES

SPRINKLERED

803.1.2 INTERIOR WALL AND CEILING FINISH MATERIALS
 CLASS A: FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.
 CLASS B: FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.
 CLASS C: FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

CHAPTER 9: FIRE PROTECTION & LIFE SAFETY SYSTEMS

901.6.3 FIRE ALARM SYSTEMS

902 FIRE PUMP AND RISER ROOM
903 AUTOMATIC SPRINKLER SYSTEM

903.2.1.3 GROUP A-3
AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT ALL STORIES OF A-3 OCCUPANCY WHERE THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE.

906 PORTABLE FIRE EXTINGUISHERS
SHALL BE INSTALLED ON EACH FLOOR & WHERE REQUIRED BY IFC TABLE 906.1
TABLE 906.3: MAX TRAVEL TO AN EXTINGUISHER IS 75FT; MAX FLOOR AREA =
11,250SF.

CHAPTER 10: MEANS OF EGRESS

1003.3.3 HORIZONTAL PROJECTIONS. 4" MAX FOR ITEMS PROTRUDING BETWEEN 27° AND 80°; PROTRUDING OBJECTS CANNOT DECREASE CLEAR WIDTH.

1003.4 FLOORING MATERIALS IN MEANS OF EGRESS CIRCULATION AREAS SHALL BE SLIP-RESISTANT.

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
EXERCISE ROOM	50 GROSS

EXERCISE ROOM	50 GROSS
LOCKER ROOMS	50 GROSS
STORAGE	300 GROSS
OFFICE	150 GROSS

TABLE 1006.2.1 SPACES WITH ONE EXIT ACCESS DOORWAY & TRAVEL DISTANCE: A
OCCUPANCY, S, MAX OF 49 OCCUPANTS, MAXIMUM 75 FT
1009.1 ACCESSIBLE MEANS OF EGRESS: ONE ACCESSIBLE MEANS OF EGRESS IS
REQUIRED

1010.1.2.1 DOOR SWING: MUST SWING IN DIRECTION OF TRAVEL WHERE SERVING A ROOM OR AREA CONTAINING 50 OR MORE PEOPLE.

1010.1.8 DOOR ARRANGEMENT: DOORS IN SERIES TO BE SEPARATED BY MINIMUM 48" WHEN OPENED (7'-0" MINIMUM VESTIBULE DEPTH IF USING 3'-0" DOORS);

1010.1.9.2 HARDWARE HEIGHT SHALL BE BETWEEN 34" AND 48"

TABLE 1010.2 EXIT ACCESS TRAVEL DISTANCE

1017.3 EXIT ACCESS TRAVEL DISTANCE SHALL BE MEASURED FROM MOST REMOTE POINT IN ROOM ALONG THE MOST NATURAL AND UNOBSTRUCTED PATH TO THE EXIT.

CHAPTER 11: ACCESSIBILITY

1111 SIGNAGE: PROVIDE SIGNS AT THE FOLLOWING: ACCESSIBLE PARKING SPACES; ACCESSIBLE ENTRANCES; ACCESSIBLE ROOMS



JEFFREY POTTER, R.A.

<u>Date</u>	<u>Description</u>
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HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033

Job No. 2.20277.25.1.

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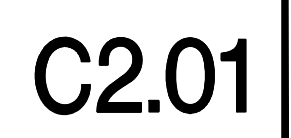
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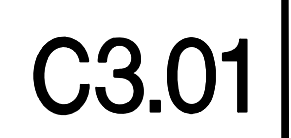
UTILITY NOTES:

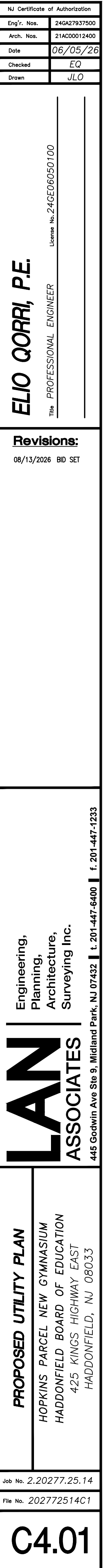
1.	THE EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE INFORMATION. ACTUAL LOCATIONS OF ALL ABOVE AND UNDERGROUND UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITH THE COOPERATION OF THE PUBLIC UTILITY COMPANIES AND/OR A UTILITY LOCATING SERVICE. CONTRACTOR IS RESPONSIBLE FOR THE 811 DIG - ONE CALL NUMBER AND A GPR UTILITY MARK OUT AT ALL LOCATIONS. SERVICES, WITHIN TWENTY FIVE (25) FEET OF THE PROPOSED LIMITS OF CONSTRUCTION SHALL BE LOCATED AND MARKED OUT PRIOR TO CONSTRUCTION.
2.	CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL REQUIRED LOCAL, STATE OR FEDERAL APPROVALS HAVE BEEN OBTAINED BY THE ENGINEER OF RECORD, OWNER OR CONTRACTOR.
3.	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER, WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES. THESE REQUIREMENTS WILL APPLY CONTINUOUSLY 24 HOURS PER DAY UNTIL ACCEPTANCE OF THE WORK BY THE OWNER.
4.	AT THE ONSET OF CONSTRUCTION, CONTRACTOR TO PERFORM UTILITY TEST PITS AND CONFIRM THE EXACT LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES. SHOULD ANY CONFLICT OCCUR WITH THE PROPOSED UTILITIES, CONTRACTOR TO CONTINUE TO NOTIFY THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY. THE ENGINEER OF RECORD AND MUNICIPAL ENGINEER SHALL BE NOTIFIED A MIN. OF 24 HOURS IN ADVANCE OF PERFORMING TEST PIT INVESTIGATIONS.
5.	CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TEMPORARY UTILITY DISRUPTIONS WITH THE AFFECTED PROPERTY OWNERS, AS NECESSARY.
6.	CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR CONSTRUCTION OF ANY UTILITY CONSTRUCTION. INSTALLATION SHALL BE PER THE RESPECTIVE STANDARDS.
7.	CONTRACTOR SHALL PROVIDE ALL EXCAVATION AND BACKFILL FOR CONSTRUCTION OF PROPOSED UTILITIES INCLUDED IN THIS ITEM WILL BE THE EXCAVATION AND REMOVAL OF ALL MATERIALS, INCLUDING STRUCTURES ABOVE AND BELOW THE GROUND, EARTH, ROCK, TOPSOIL, BITUMINOUS PAVEMENT, CONCRETE, BOGOT WASTE RUBBISH, ASHES, CINDERS, OR ORGANIC MATERIAL SUCH AS PEATY OR HUMUS MATERIAL.
8.	CONTRACTOR SHALL MAINTAIN A MIN. 10-Ft. HORIZONTAL SEPARATION & MIN. 1.5-Ft. VERTICAL SEPARATION SHALL BETWEEN WATER & SANITARY UTILITIES. WHERE UNFEASIBLE, CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF UTILITIES AS DIRECTED BY THE ENGINEER OF RECORD.
9.	UPON CONNECTING TO AN EXISTING UTILITY, THE CONTRACTOR SHALL REMOVE ALL SOIL & DEBRIS FROM EXISTING PIPES & STRUCTURES WITH ADDITIONAL CLEANING AS NECESSARY TO ENSURE PROPER CONNECTION, ANY DAMAGE TO EXISTING STRUCTURES OR PIPING NOT BE BROUGHT TO THE ATTENTION OF THE ENGINEER-OF-RECORD PRIOR TO INSTALLATION. SHOULD INTERNAL CLOSED CIRCUIT TELEVISION OF UTILITIES BE REQUIRED, THE MUNICIPAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
10.	WHERE UTILITIES ARE TO BE ABANDONED-IN-PLACE, THE CONTRACTOR SHALL FURNISH APPROPRIATE CAPPING METHOD OR UTILIZE FLOWABLE FILL AS DIRECTED BY THE ENGINEER OF RECORD.
11.	ALL SOIL SLOKS, WALL/ROOF HADROIDS, HOLES BIBBS OR SIMILAR FIXTURES USED TO SUPPLY WATER OUTDOORS SHALL BE SELF-DRAINING OR OTHERWISE FROST-FREE.
12.	FOR BELOW GRADE WALL AND SLAB-ON-GRADE FLOOR PENETRATIONS, LINK SEALS SHALL BE USED FOR PIPING PENETRATIONS OF BELOW GRADE WALLS AND SLAB-ON-GRADE FLOORS. LINK SEAL HARDWARE SHALL BE STAINLESS STEEL.
13.	CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AS-BUILT UTILITY INFORMATION VIA A NEW JERSEY LICENSED PROFESSIONAL LAND SURVEYOR. SIGNED AND SEAL HARD COPIES OF SAID AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND PROPERTY OWNER.
14.	THE CONTRACTOR SHALL REMOVE ALL SOIL & DEBRIS FROM ALL STORMWATER STRUCTURES AND PIPES WITHIN THE PROJECT AREA. ENGINEER-OF-RECORD SHALL BE PROMPTLY NOTIFIED OF ANY DAMAGE OBSERVED TO EXISTING STRUCTURES OR PIPING AFTER CLEANING.

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ELIO QORRI, P.E. Title PROFESSIONAL ENGINEER License No. 240606050100	Revisions: 08/13/2026 BID SET
LAN ASSOCIATES 445 Goodwin Ave Ste 9, Millland Park, NJ 07432 t. 201-447-6000 f. 201-447-1233 Engineering, Planning, Architecture, Surveying Inc.	NOTES HOPKINS PARCEL NEW GYMNASIUM HADDONFIELD BOARD OF EDUCATION 425 KINGS HIGHWAY EAST HADDONFIELD, NJ 08033
Job No. 2.2027725.14	File No. 202772514C1
C1.00	

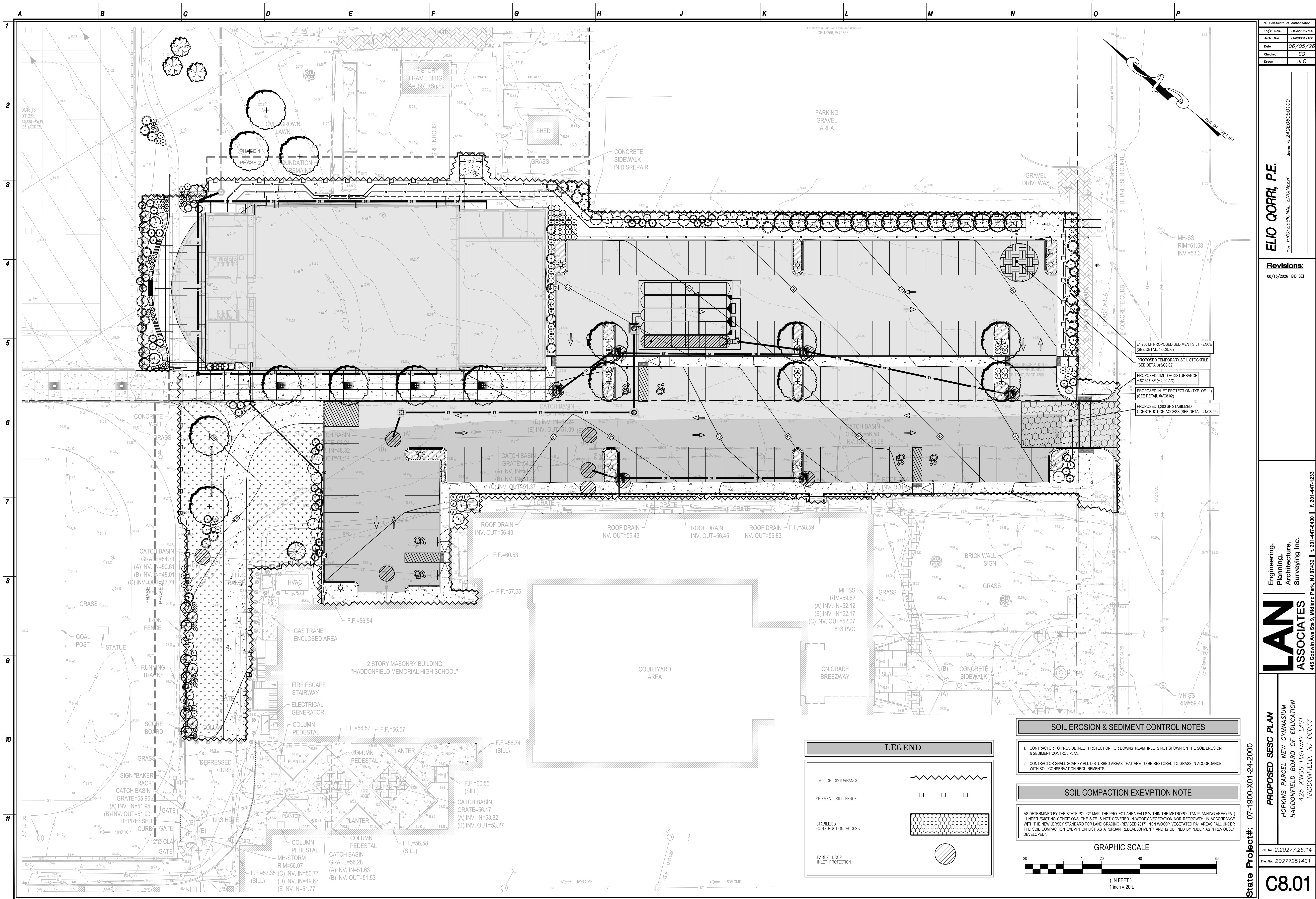








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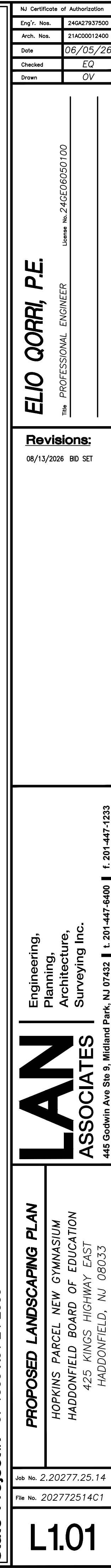
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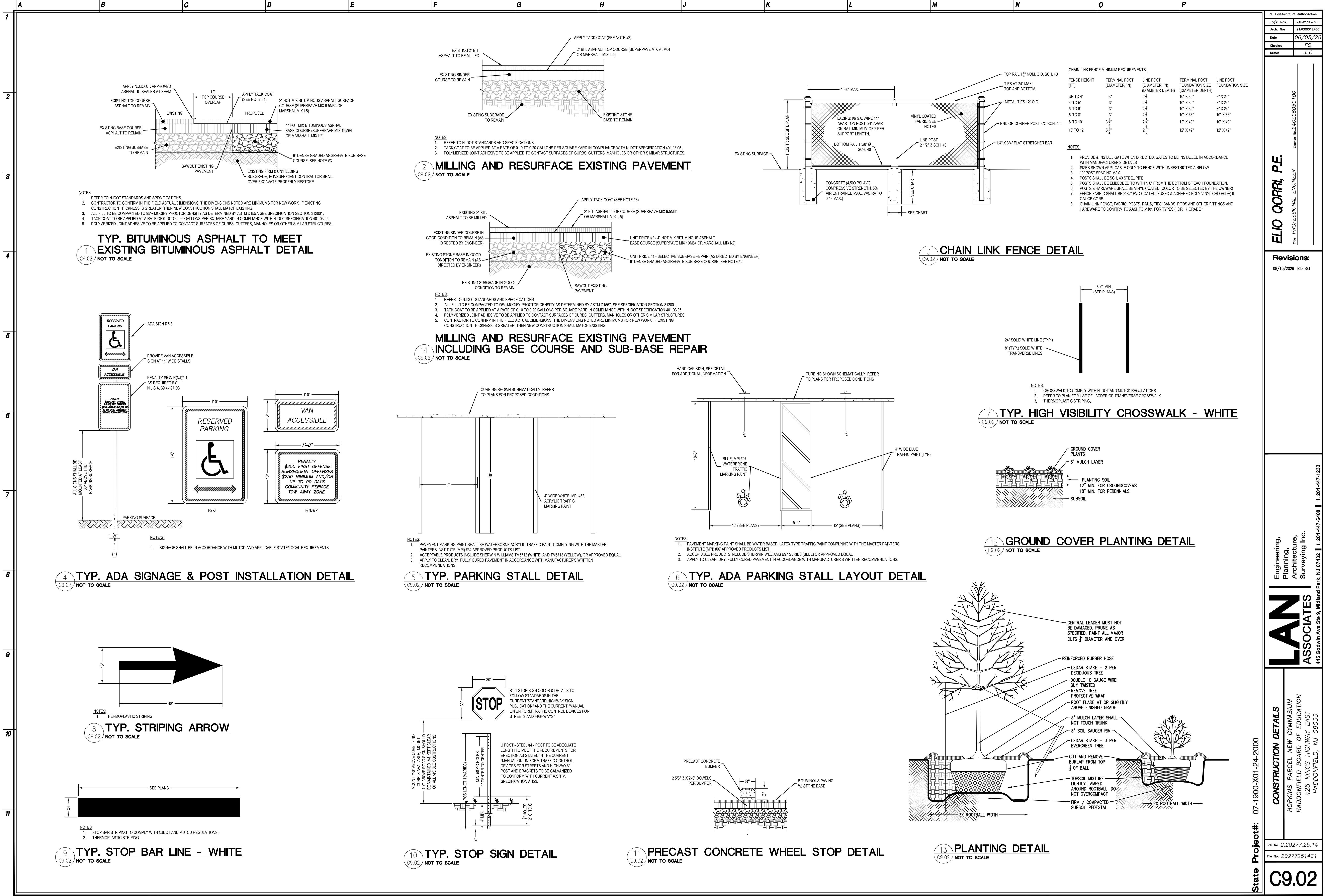
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C8.01





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CONSTRUCTION DETAILS

HOPKINS PARCEL NEW GYMNASIUM
HADDONFIELD BOARD OF EDUCATION
425 KINGS HIGHWAY EAST
HADDONFIELD, NJ 08033

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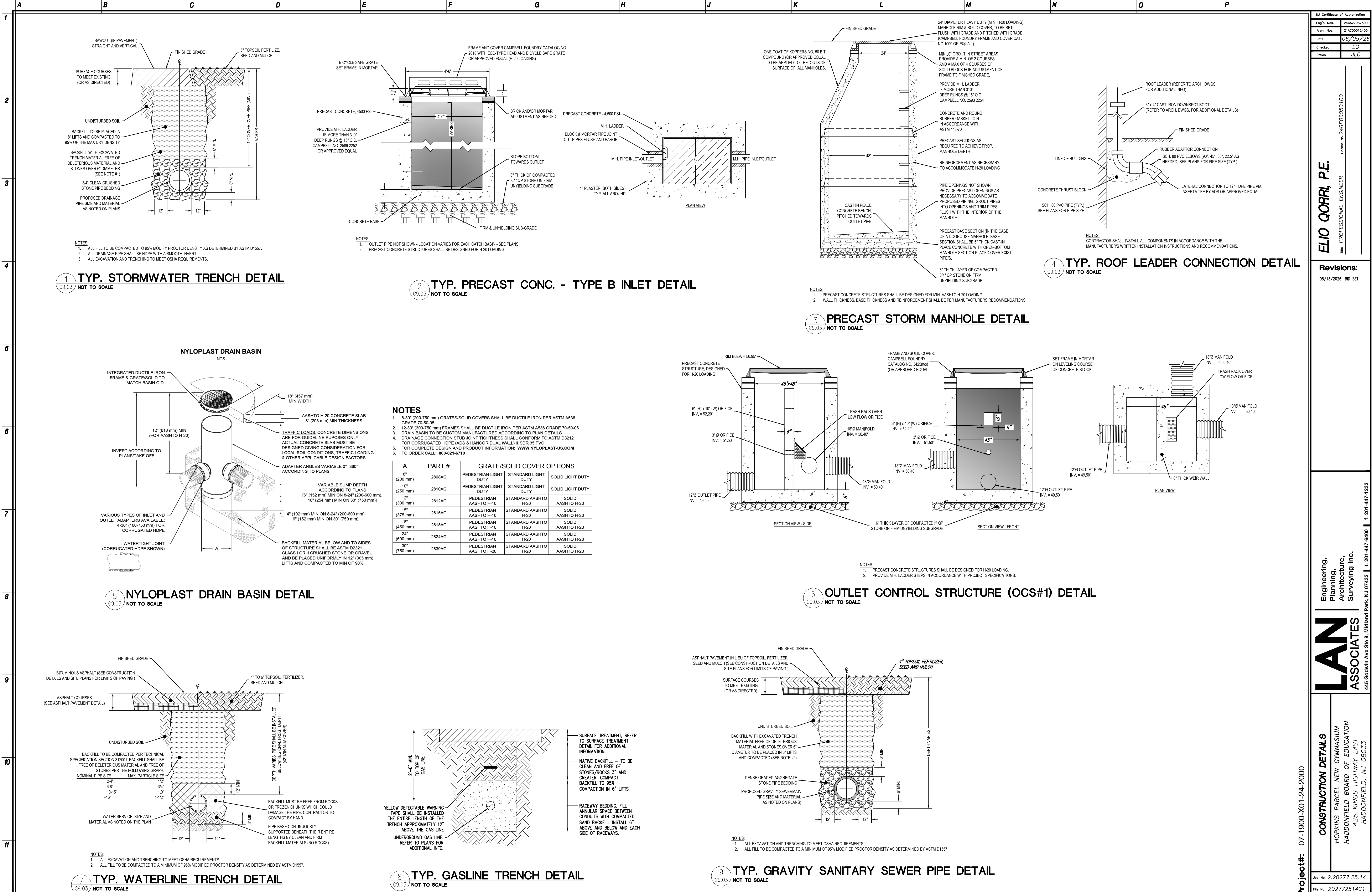
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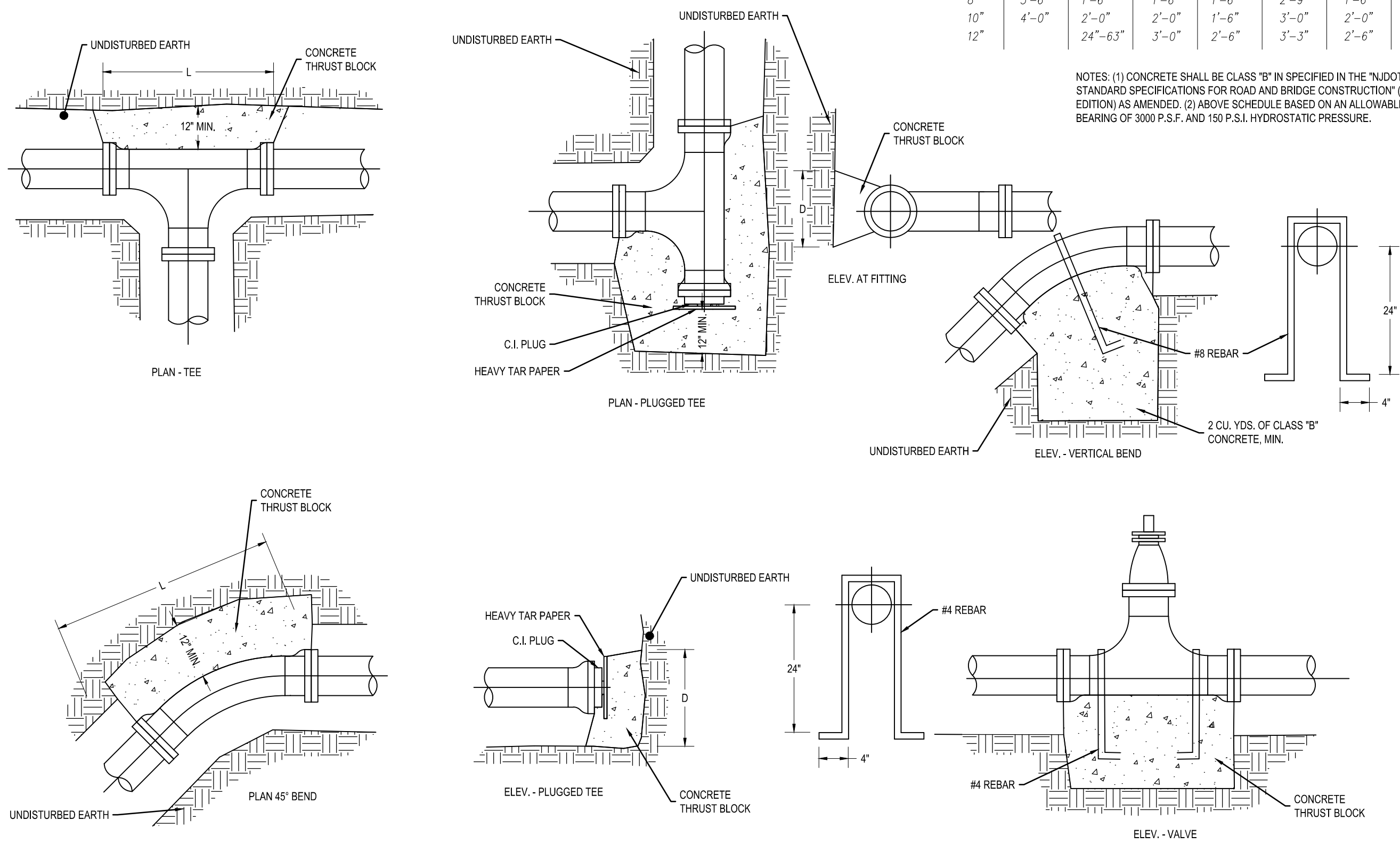
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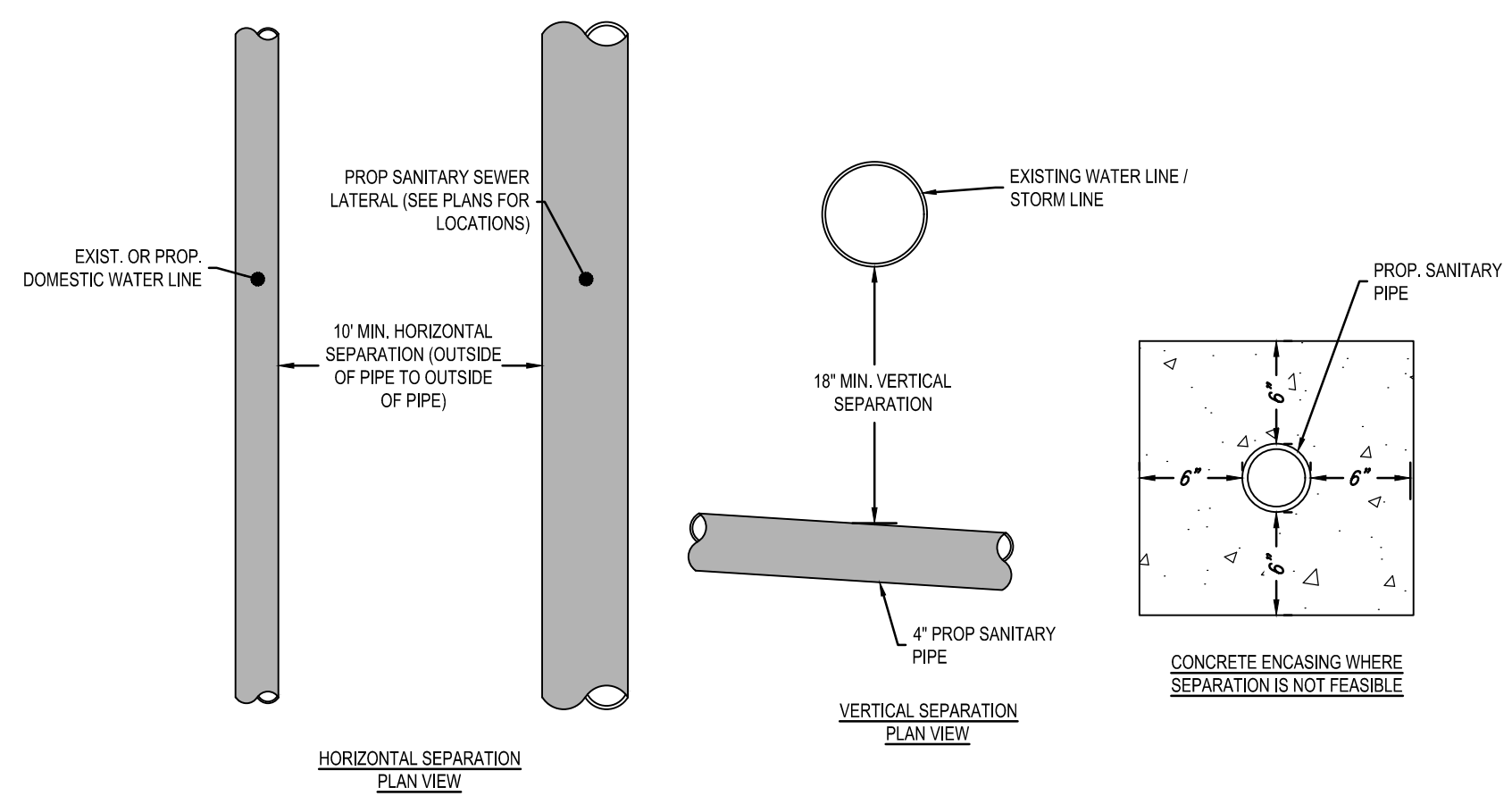
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THRUST BLOCK SCHEDULE									
PIPE SIZE	TEE OR PLUG		22.5° BEND		45° BEND		90° BEND		
	L	D	L	D	L	D	L	D	
6"	3'-0"	1'-6"	1'-6"	1'-6"	2'-6"	1'-6"	4'-3"	1'-6"	
8"	3'-6"	1'-6"	1'-6"	1'-6"	2'-9"	1'-6"	4'-9"	1'-6"	
10"	4'-0"	2'-0"	2'-0"	1'-6"	3'-0"	2'-0"	5'-0"	2'-0"	
12"		24"-6.3"	3'-0"	2'-6"	3'-3"	2'-6"	6'-0"	2'-6"	

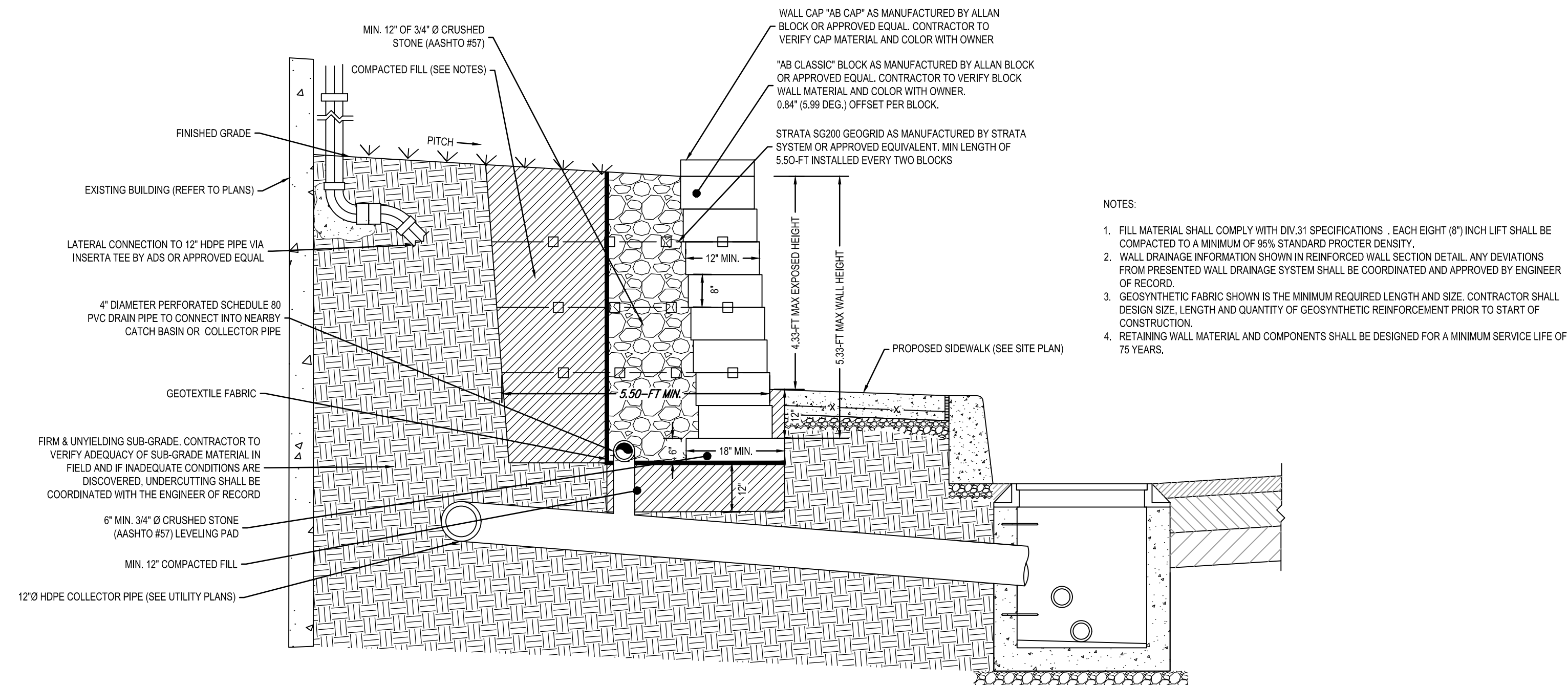
NOTES: (1) CONCRETE SHALL BE CLASS "B" AS SPECIFIED IN THE "NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (1989 EDITION) AS AMENDED. (2) ABOVE SCHEDULE BASED ON AN ALLOWABLE SOIL BEARING OF 3000 P.S.F. AND 150 P.S.I. HYDROSTATIC PRESSURE.



1 THRUST BLOCK DETAILS
C9.04 NOT TO SCALE



2 TYP. WATER/SANITARY UTILITY SEPARATION DETAIL
C9.04 NOT TO SCALE



- NOTES:
1. FILL MATERIAL SHALL COMPLY WITH DIV.31 SPECIFICATIONS . EACH EIGHT (8") INCH LIFT SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
 2. WALL DRAINAGE INFORMATION SHOWN IN REINFORCED WALL SECTION DETAIL, ANY DEVIATIONS FROM PRESENTED WALL DRAINAGE SYSTEM SHALL BE COORDINATED AND APPROVED BY ENGINEER OF RECORD.
 3. GEOSYNTHETIC FABRIC SHOWN IS THE MINIMUM REQUIRED LENGTH AND SIZE. CONTRACTOR SHALL DESIGN SIZE, LENGTH AND QUANTITY OF GEOSYNTHETIC REINFORCEMENT PRIOR TO START OF CONSTRUCTION.
 4. RETAINING WALL MATERIAL AND COMPONENTS SHALL BE DESIGNED FOR A MINIMUM SERVICE LIFE OF 75 YEARS.

3 TYP. MORTARLESS BLOCK RETAINING WALL DETAIL
C9.04 NOT TO SCALE

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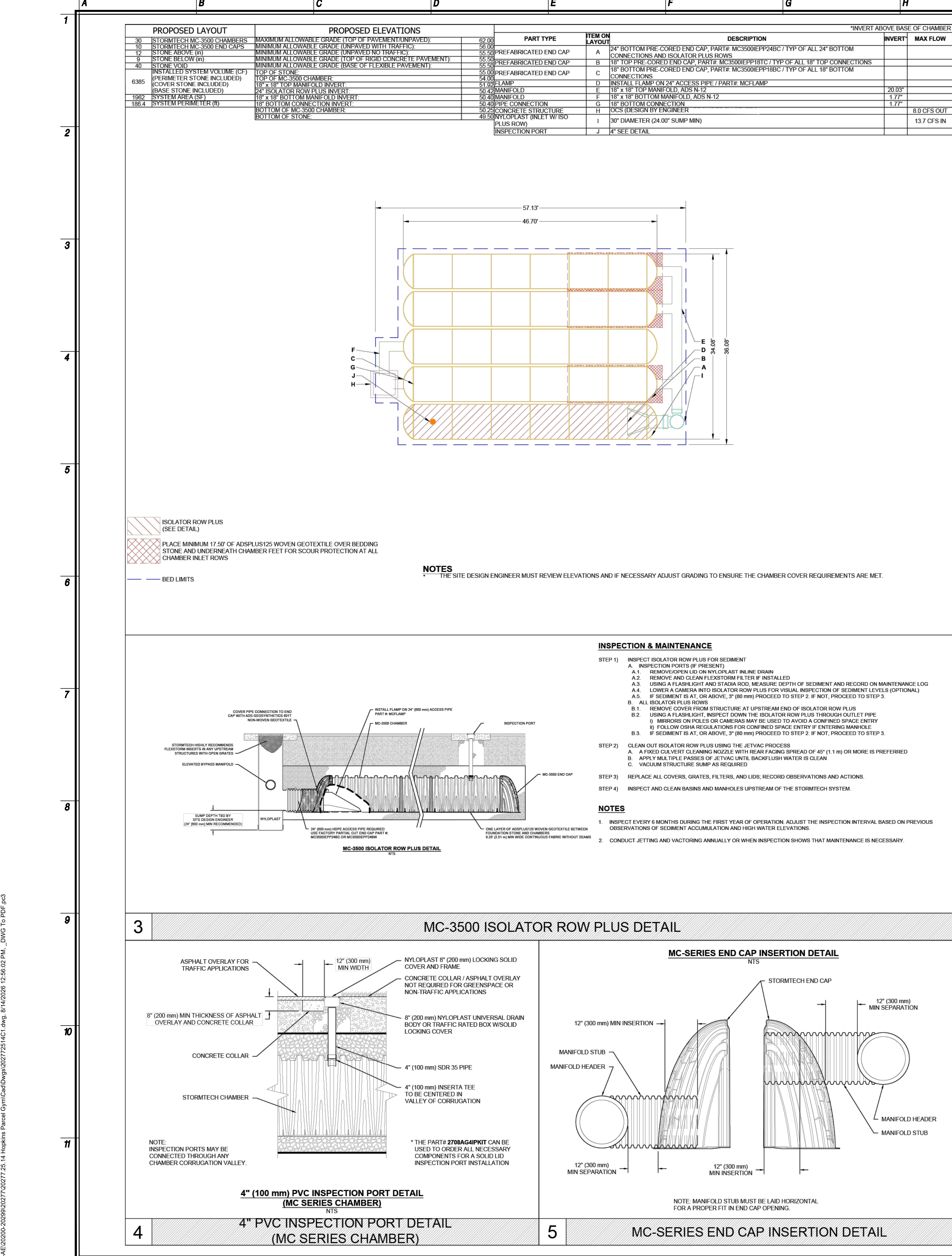
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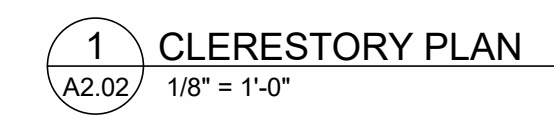
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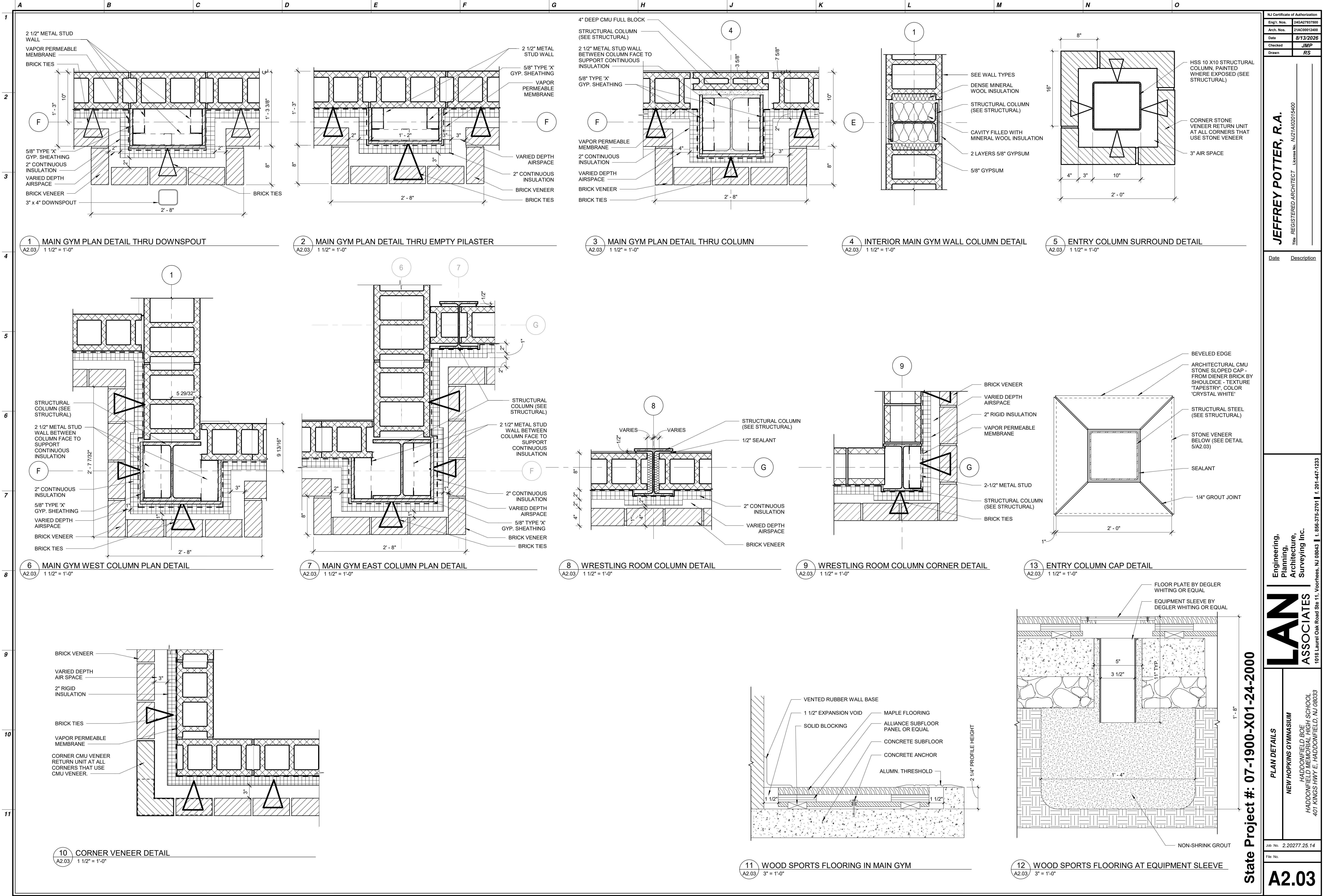
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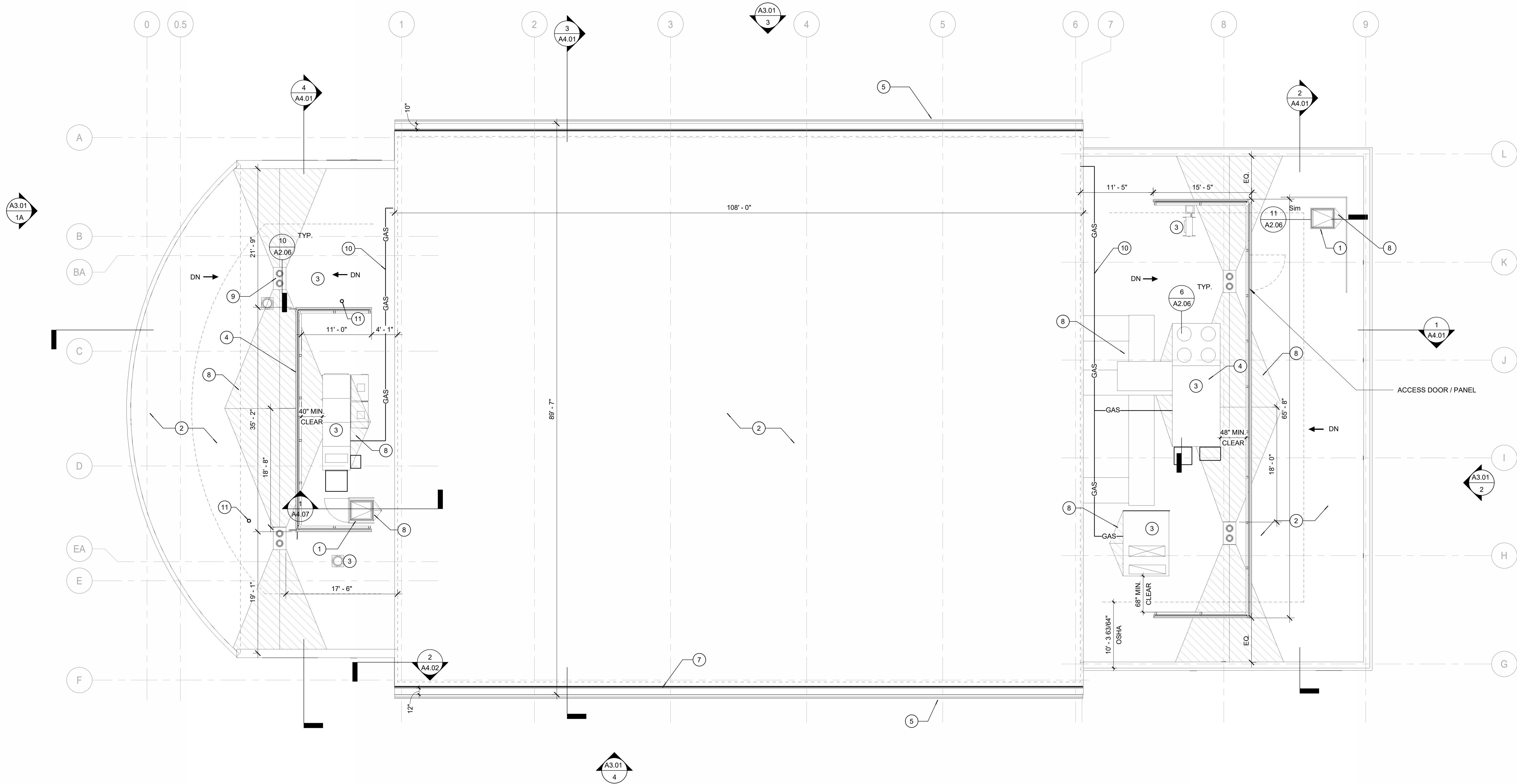


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LAN ASSOCIATES 1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043	
Job No.	2.20277.25.14
File No.	
A2.03	

CONSTRUCTION KEY NOTES LEGEND		#	SYMBOL INDICATES CONST. KEY NOTE
KEY #	DESCRIPTION		
1	ROOF ACCESS HATCH & SAFETY RAIL SYSTEM - REFER TO DETAIL 8 & 11/A2.05		
2	EPDM ROOFING SYSTEM - REFER TO 1/A2.05		
3	MECHANICAL UNIT (SEE MECHANICAL DRAWINGS) PROVIDE ROOF CURBS PER 6/A2.05. ROOF CURBS SHALL NOT OBSTRUCT FLOW OF STORM WATER TO ROOF DRAIN. PROVIDE PORTALS AT CONDUIT / CONDENSATE PENETRATIONS PER 5/A2.05		
4	POST-ROOF MOUNTED MECHANICAL SCREENS (SEE SPEC)		
5	GUTTER SYSTEM, ON HIGH ROOF ONLY (SEE SPEC.) COLOR TO MATCH METAL EDGE TRIM.		
7	SNOW RAILS (SEE SPEC.)		
8	ROOF CRICKET - SEE 2/A2.05. MAINTAIN MIN. 1/4" PER 1'-0" TOWARDS DRAIN.		
9	ROOF DRAIN W/ OVERFLOW (SEE 10/A2.05)		
10	GAS LINE MOUNTED TO ROOF WITH MANUF. APPROVED SUPPORTS (SEE PLUMBING DRAWINGS FOR PIPE LOCATIONS, CONNECTIONS & ROOF TOP SUPPORTS.)		
11	VENT TO ROOF (SEE PLUMBING DRAWINGS)		

ROOF LEGEND	
	TAPERED INSULATION SLOPE 1/4" = 1'-0"
	ROOF DRAIN WITH OVERFLOW DRAIN - REFER TO DETAIL 9 & 10/A2.06
	GUSSETS - SEE DETAIL 4/A2.06

ROOF PLAN GENERAL NOTES	
1.	ALL ROOFS TO EPDM SYSTEM . REFER TO SPECIFICATION FOR MORE INFORMATION.
2.	ARROWS INDICATE THE DIRECTION OF DOWNWARD SLOPE TOWARD ROOF DRAINS.
3.	REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ROOF TOP EQUIPMENTS, RADON, GAS, VENT STACK INFORMATION.
5.	ALL SLOPE ROOF WP (WORKING POINTS) ARE TAKEN FROM THE BOTTOM OF METAL ROOF DECK OR BOTTOM OF WOOD PLATE AT THE CENTERLINE OF GIRDER BEAM.



1 PROPOSED ROOF PLAN
A2.05 1/8" = 1'-0"

NJ Certificate of Authorization	
Eng'g. Nos.	24A27937500
Arch. Nos.	21AC20012400
Date	8/13/2026
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.	TITLE	REGISTERED ARCHITECT	LICENSE No.	NJ21A02015400

<u>Date</u>	<u>Description</u>
-------------	--------------------

LAN
ASSOCIATES

Engineering,
Planning,
Architecture,
Surveying Inc.

1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 ■ f. 201-447-1233

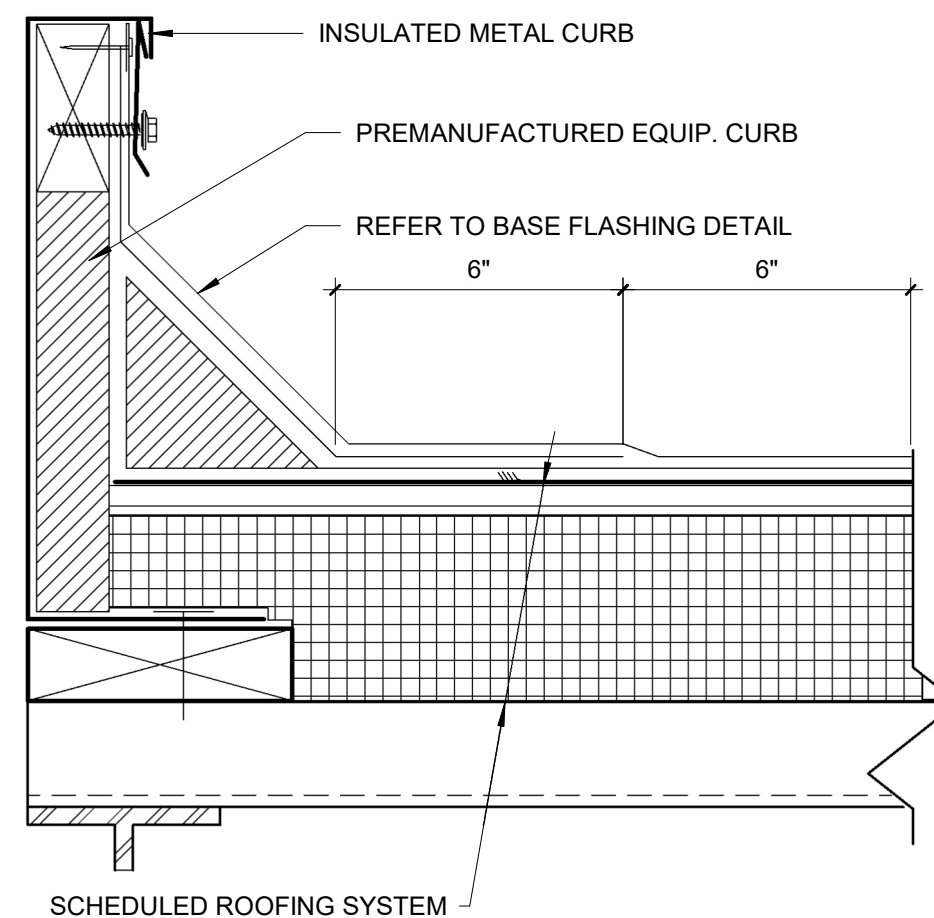
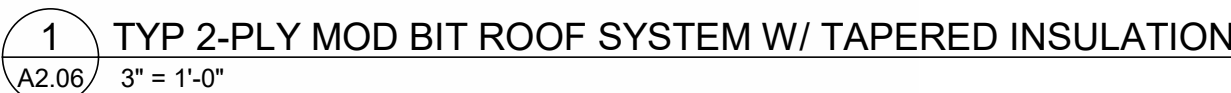
ROOF PLAN

NEW HOPKINS GYMNASIUM

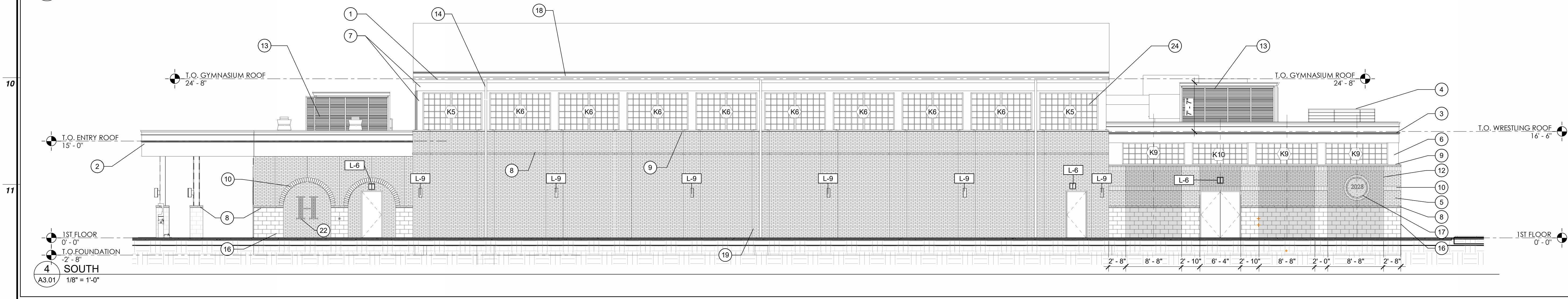
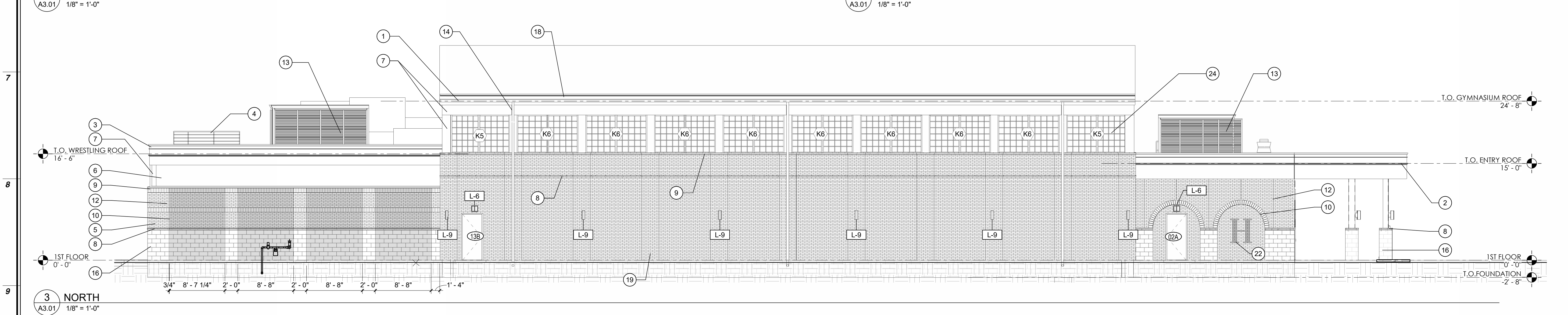
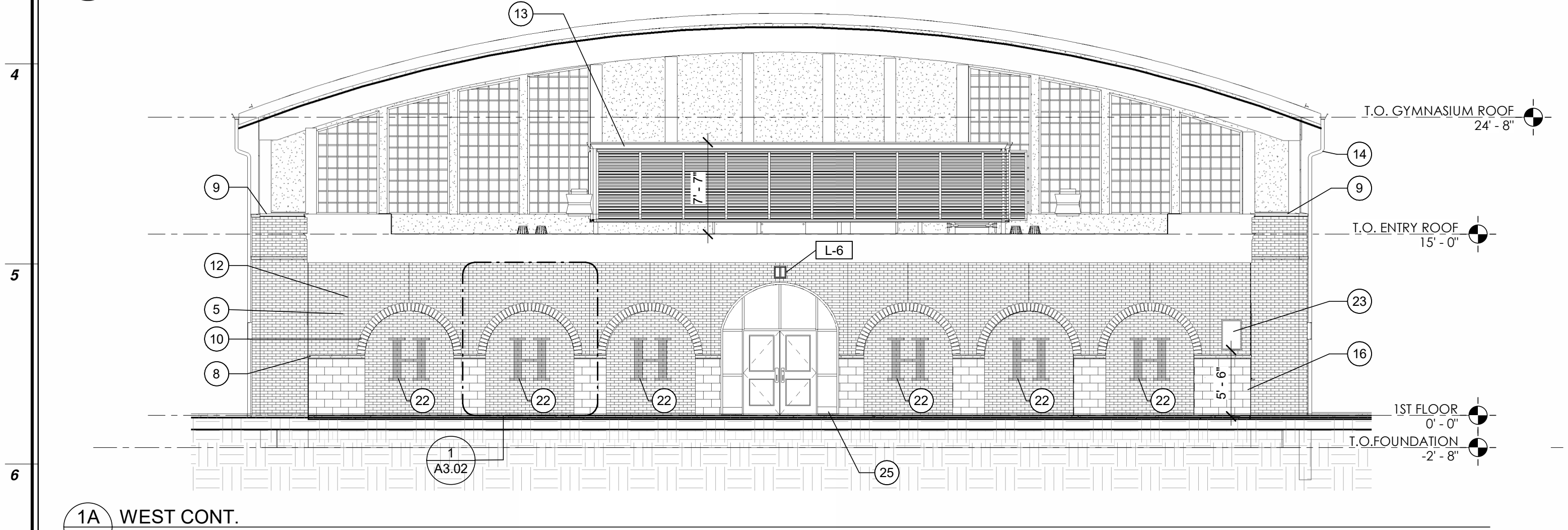
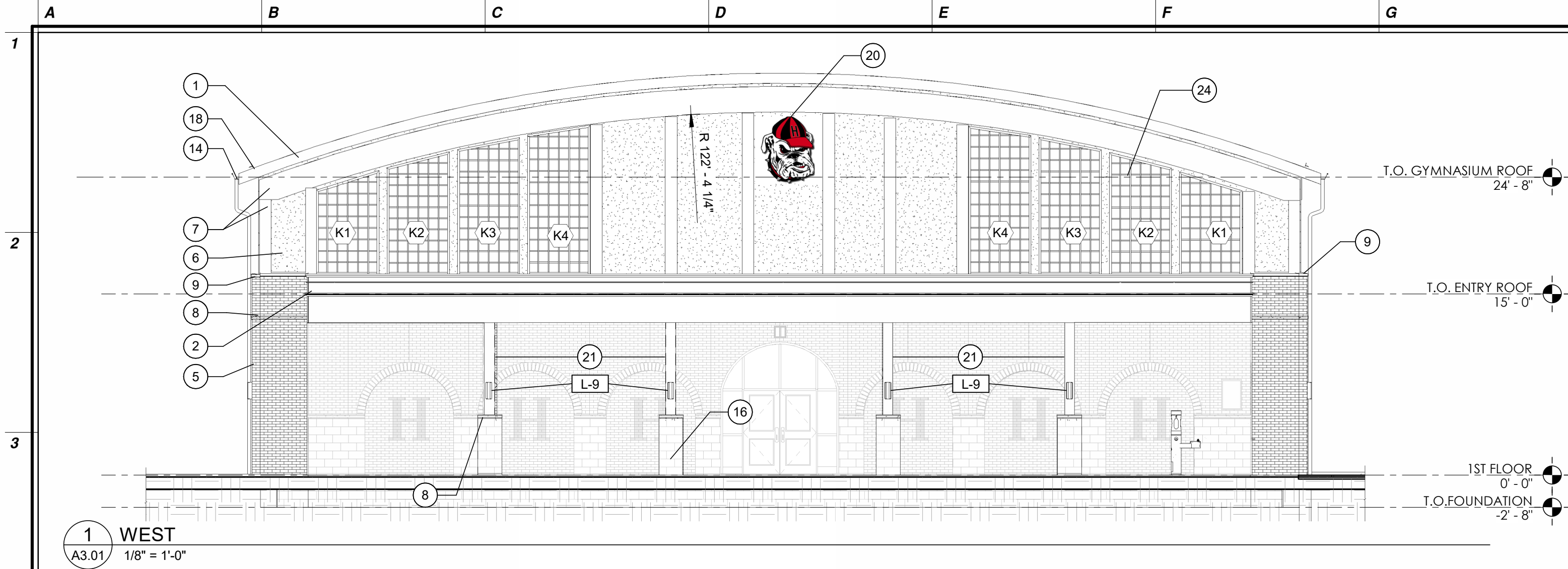
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

State Project #: 07-1900-X01-24-2000

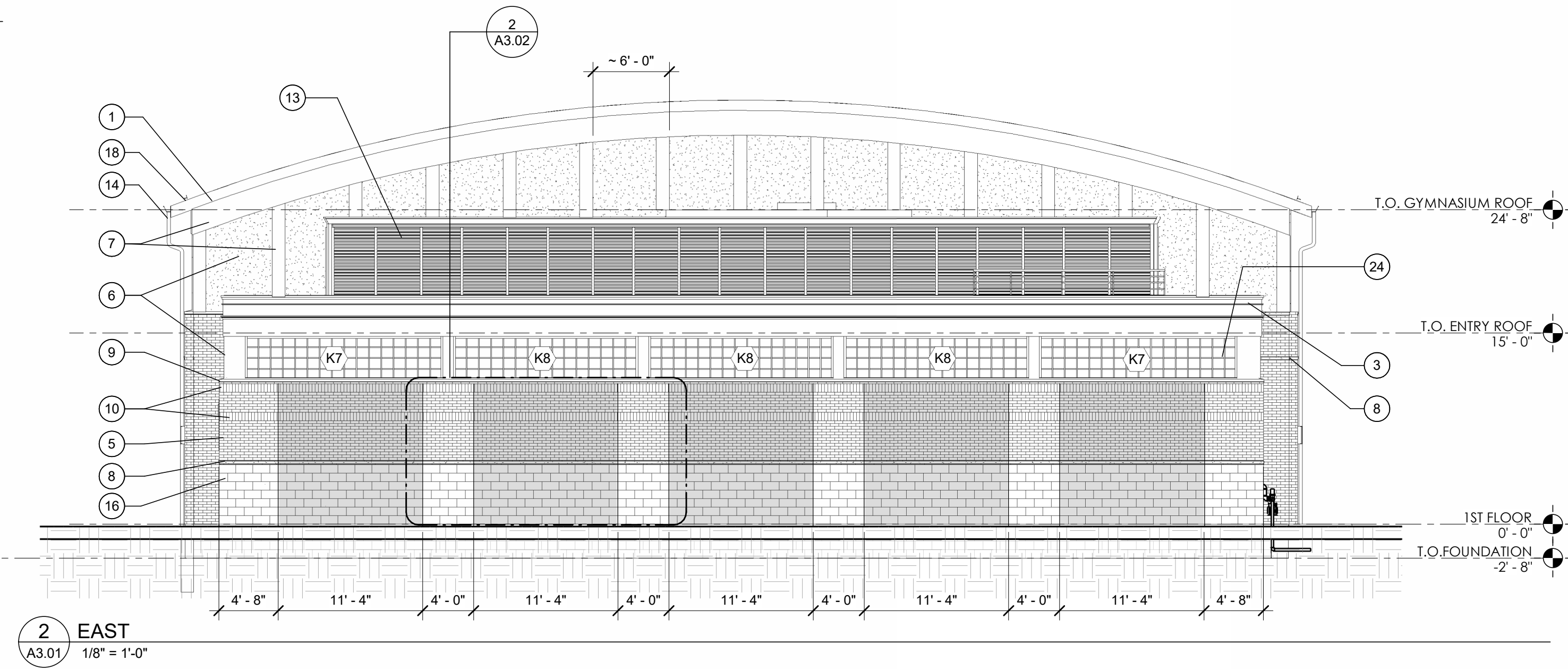
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A2.06	Roof No.	2.20277.25.14
	Roof Details	NEW HOPKINS GYMNASIUM HADDONFIELD BOE HADDONFIELD MEMORIAL HIGH SCHOOL 401 KINGS HWY E, HADDONFIELD, NJ 08033



ELEVATION KEY NOTES				#	SYMBOL INDICATES CONST. KEY NOTE
KEY #	DESCRIPTION	KEY #	DESCRIPTION	KEY #	DESCRIPTION
1	ALUM. COPING (MIN .050 ALUM.), PTD HPFP FINISH W/ CLEATS	9	BREAK METAL 30 DEGREE ANGLE SLOPE	19	BRICK PILASTER, SEE PLAN DETAIL 1,2/A2.03
2	CORNICE DETAIL A, SEE DETAIL 2,3/A4.06	10	BRICK SOLDER BAND.	20	RIGIDS FLAT SIGN FABRICATED FROM .125" PAINTED ALUMINUM CUSTOM CUT SHAPE, DIGITALLY PRINTED GRAPHICS WITH UV LAMINATE, PAINTED EDGES TO MATCH SIGN FACE, MOUNTED FLUSH TO THE BUILDING USING CONCEALED MOUNTING HARDWARE, APPROXIMATELY 6'-0"W x 5'-6"H.
3	CORNICE DETAIL B, SEE DETAIL 1/A4.06	12	MASONRY CONTROL JOINT, TYP.	21	METAL COLUMN TO BE PRIMED AND PAINTED
4	ROOF HATCH SEE DETAIL 7/A2.05	13	ROOFTOP MECHANICAL SCREENS, SEE SPEC.	22	BRICK LAYED IN THE PATTERN OF AN 'H' WITH BOWERSTONE: COLOR 'HERITAGE BLACK' BY DIENER BRICK OR APPROVED EQUAL
5	BRICK MASONRY VENEER, RUNNING BOND - BOWERSTON- HARBOR COLLECTION HARVEST BLEND MODULAR OR APPROVED EQUAL, SEE SPEC.	14	GUTTER & DOWNSPOUT	23	DEDICATION PLAQUE -SEE SPEC (ASK OWNER & ARCHITECT FOR FINAL DETAILS)
6	FIBER CEMENT CLADDING, PAINTED - SEE SPEC.	16	MASONRY STONE VENEER, FROM DIENER BRICK BY SHOULDICE - TEXTURE 'TAPESTRY, COLOR 'CRYSTAL WHITE' W/ BEVELED EDGES OR APPROVED EQUAL	24	FIBERGLASS SANDWICH PANEL SYSTEM (TYP.)
7	PVC TRIM, PAINTED	17	48" CAST DATE STONE, FROM DIENER BRICK BY ROCKCAST - COLOR 'CRYSTAL WHITE' OR APPROVED EQUAL	25	STOREFRONT FRAMING ENTRY SYSTEM
8	3" STONE BANDING, FROM DIENER BRICK BY SHOULDICE - TEXTURE 'TAPESTRY, COLOR 'CRYSTAL WHITE' OR APPROVED EQUAL	18	GUTTER & DOWNSPOUT; STORMGUARD		



NJ Certificate of Authorization

Engr. Nos. 246A27837800

Arch. Nos. 21AC00012400

Date 8/13/2026

Checked JMP

Drawn RS

JEFFREY POTTER, R.A.

THE REGISTERED ARCHITECT License No. NJ21A02015400

Date

Description

Engineering,
Planning,
Architecture,
Surveying Inc.

LAN ASSOCIATES

1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

State Project #: 07-1900-X01-24-2000

BUILDING ELEVATIONS

NEW HOPKINS GYMNASIUM

HADDONFIELD BOE

HADDONFIELD MEMORIAL HIGH SCHOOL

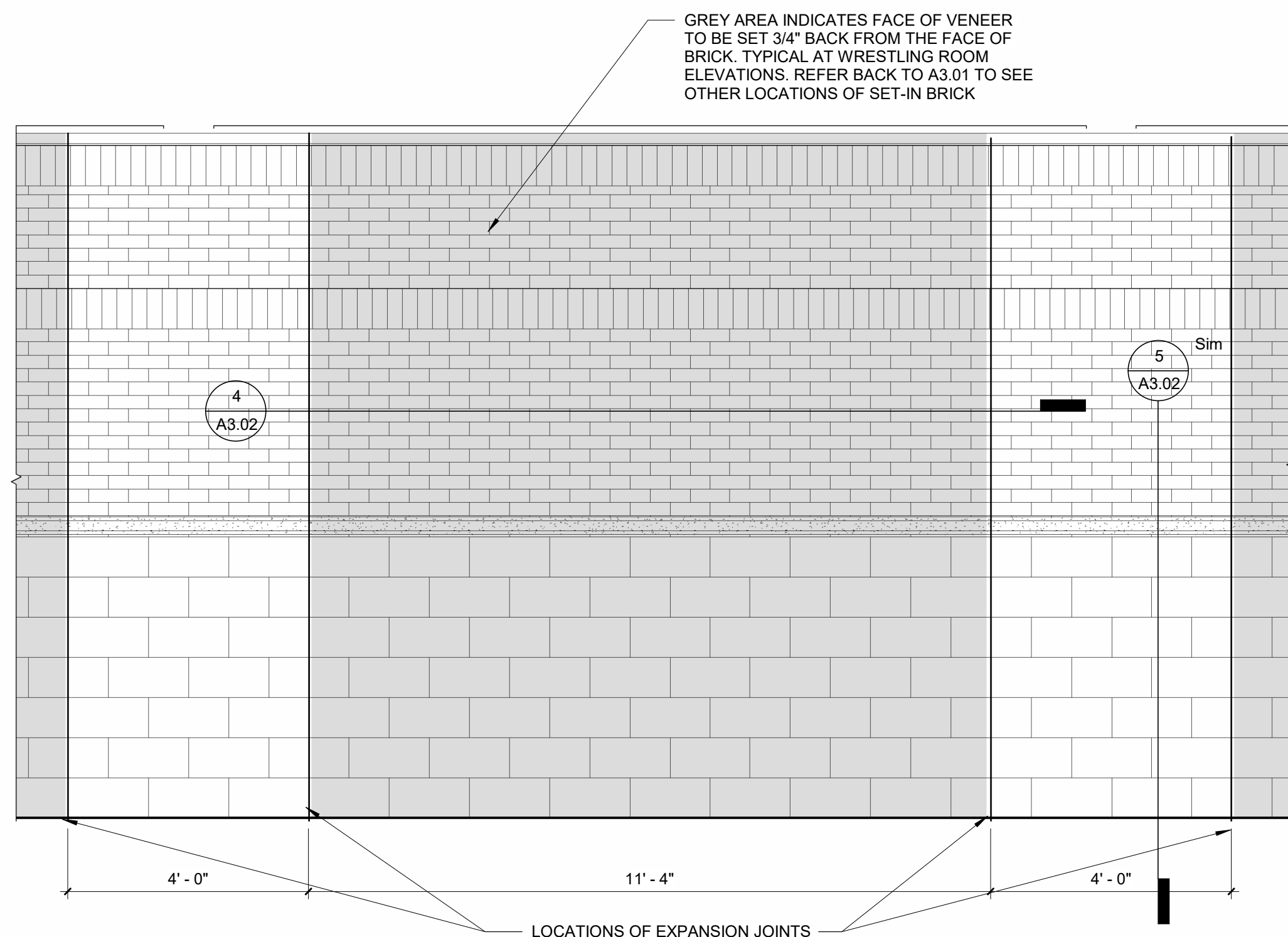
401 KINGS HWY E. HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

File No.

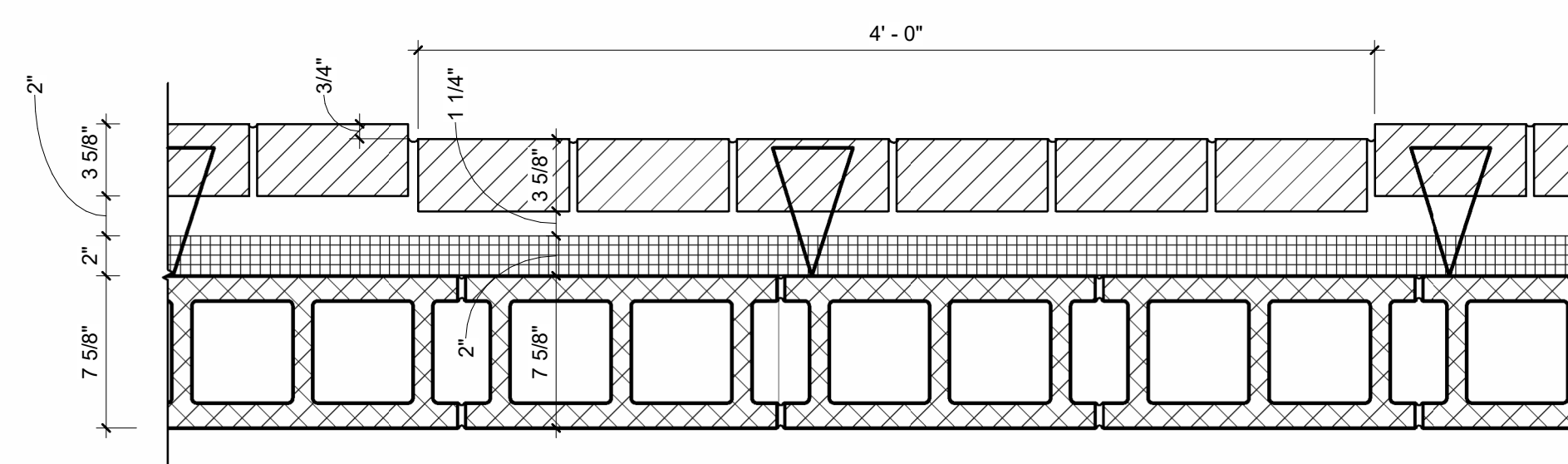
A3.01

8/17/2026 9:50:15 AM



1 SMALL ARCH DETAIL
A3.02 1/2" = 1'-0"

2 LARGE ARCH DETAIL
A3.02 1/2" = 1'-0"



3 SOLIDER COURSE
A3.02 1 1/2" = 1'-0"

4 BRICK BUMP OUT
A3.02 1 1/2" = 1'-0"



ELEVATION KEY NOTES				#	SYMBOL INDICATES CONST. KEY NOTE
KEY #	DESCRIPTION	KEY #	DESCRIPTION	KEY #	DESCRIPTION
1	ALUM. COPING (MIN .050 ALUM.), PTD HPFP FINISH W/ CLEATS	9	BREAK METAL 30 DEGREE ANGLE SLOPE	19	BRICK PLASTER, SEE PLAN DETAIL 1,2/A2.03
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3	CORNICE DETAIL B, SEE DETAIL 1/A4.06	12	MASONRY CONTROL JOINT, TYP.		
4	ROOF HATCH SEE DETAIL 7/A2.05	13	ROOFTOP MECHANICAL SCREENS, SEE SPEC.		
5	BRICK MASONRY VENEER, RUNNING BOND - BOWERSTONE, HARBOR COLLECTION HARVEST BLEND MODULAR OR APPROVED EQUAL, SEE SPEC.	14	GUTTER & DOWNSPOUT	21	METAL COLUMN TO BE PRIMED AND PAINTED
6	FIBER CEMENT CLADDING, PAINTED - SEE SPEC.	16	MASONRY STONE VENEER, FROM DIENER BRICK BY SHOULCE - TEXTURE "TAPRESTRY, COLOR "CRYSTAL WHITE" W/ BEVELED EDGES OR APPROVED EQUAL.	22	BRICK LAYED IN THE PATTERN OF AN "H" WITH BOWERSTONE, COLOR "HERITAGE BLACK" BY DIENER BRICK OR APPROVED EQUAL.
7	PVC TRIM, PAINTED	17	48" CAST DATE STONE, FROM DIENER BRICK BY ROCKCAST - COLOR "CRYSTAL WHITE" OR APPROVED EQUAL	23	DEDICATION PLAQUE - SEE SPEC (ASK OWNER & ARCHITECT FOR FINAL DETAILS)
8	3" STONE BANDING, FROM DIENER BRICK BY SHOULCE - TEXTURE "TAPRESTRY, COLOR "CRYSTAL WHITE" OR APPROVED EQUAL	18	GUTTER & DOWNSPOUT; STORMGUARD	24	FIBERGLASS SANDWICH PANEL SYSTEM (TYP.)
				25	STOREFRONT FRAMING ENTRY SYSTEM

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JEFFREY POTTER, R.A.

<u>Date</u>	<u>Description</u>
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Architecture,
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LAN ASSOCIATES

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ELEVATIONS DETAILS

HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

File No.

A3.02

State Project #: 07-1900-X01-24-2000

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TYPE 1, 1A, 1B

INTERIOR PARTITION - STEEL STUD (NON-LOAD BEARING)
MIN STC RATING > 49 (REF. UL U419)

TYPE 2, 2A

INTERIOR PARTITION - STEEL STUD (NON-LOAD BEARING)
FULL HEIGHT CERAMIC TILE ON ONE SIDE
MIN STC RATING > 49 (REF. UL U419)

TYPE 3, 3A

8" MASONRY CMU BLOCK WALL(12" CMU AT TYPE 3A)

1

A4.00

PARTITION TYPES - INTERIOR

1" = 1'-0"

TYPE 4

LOAD BEARING 8" MASONRY CMU BLOCK WALL W/ BRICK
(SEE STRUCTURAL).

TYPE 5

NON-LOAD BEARING 8", 10", & 12" METAL STUD WALL W/ FIBER CEMENT PANEL R-20

TYPE 6

LOAD BEARING 12" MASONRY CMU BLOCK WALL W/ FIBER CEMENT PANELS
(SEE STRUCTURAL).

2

A4.00

PARTITION TYPES - EXTERIOR

1" = 1'-0"

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A4.00

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A4.00

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A4.00

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A4.00

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(SEE STRUCTURAL).

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A4.00

PARTITION TYPES - EXTERIOR

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A4.00

PARTITION TYPES - EXTERIOR

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(SEE STRUCTURAL).

2

A4.00

PARTITION TYPES - EXTERIOR

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(SEE STRUCTURAL).

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TYPE 6

LOAD BEARING 12" MASONRY CMU BLOCK WALL W/ FIBER CEMENT PANELS
(SEE STRUCTURAL).

2

A4.00

PARTITION TYPES - EXTERIOR

1" = 1'-0"

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PARTITION TYPES - INTERIOR

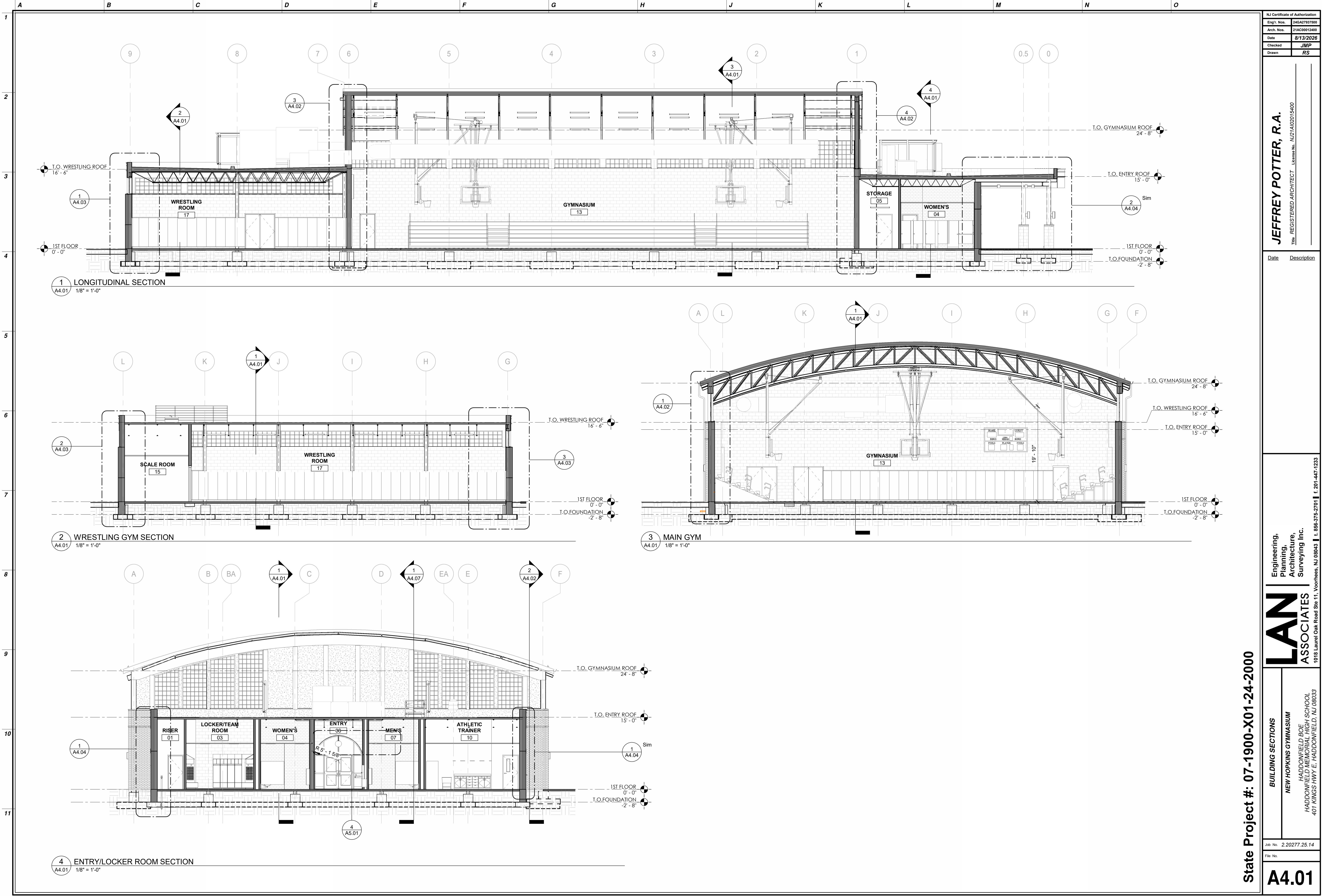
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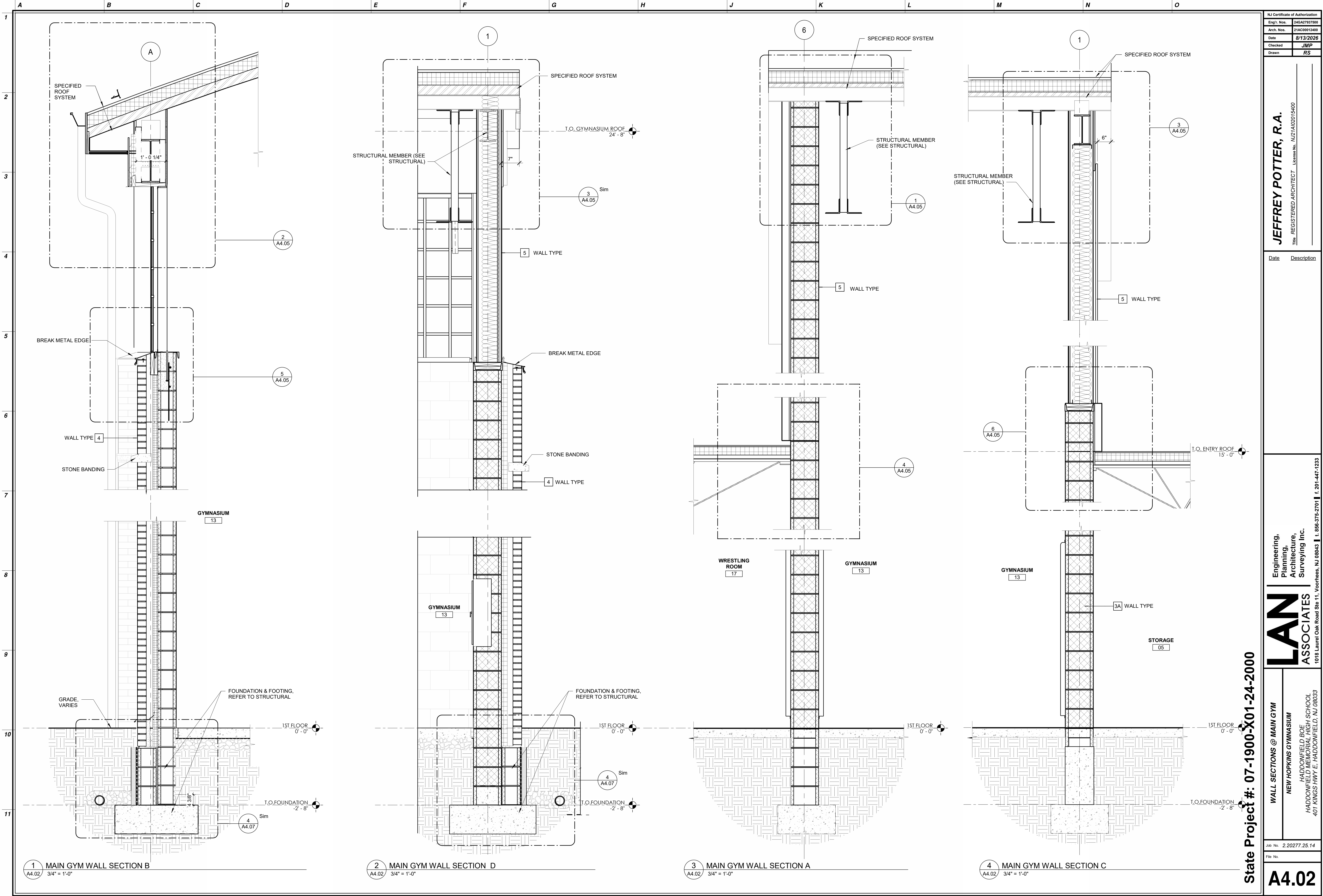
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(SEE STRUCTURAL).

TYPE 5

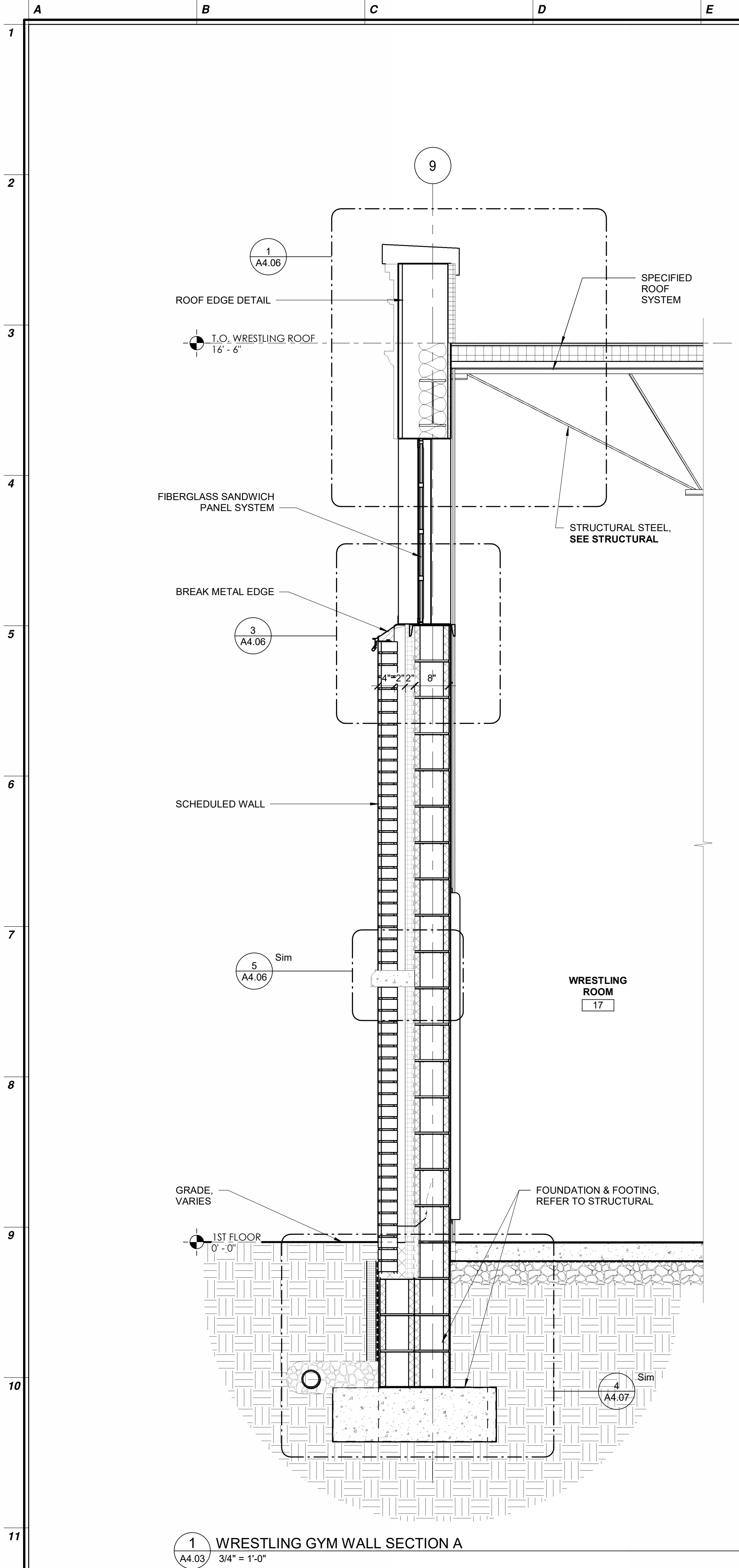
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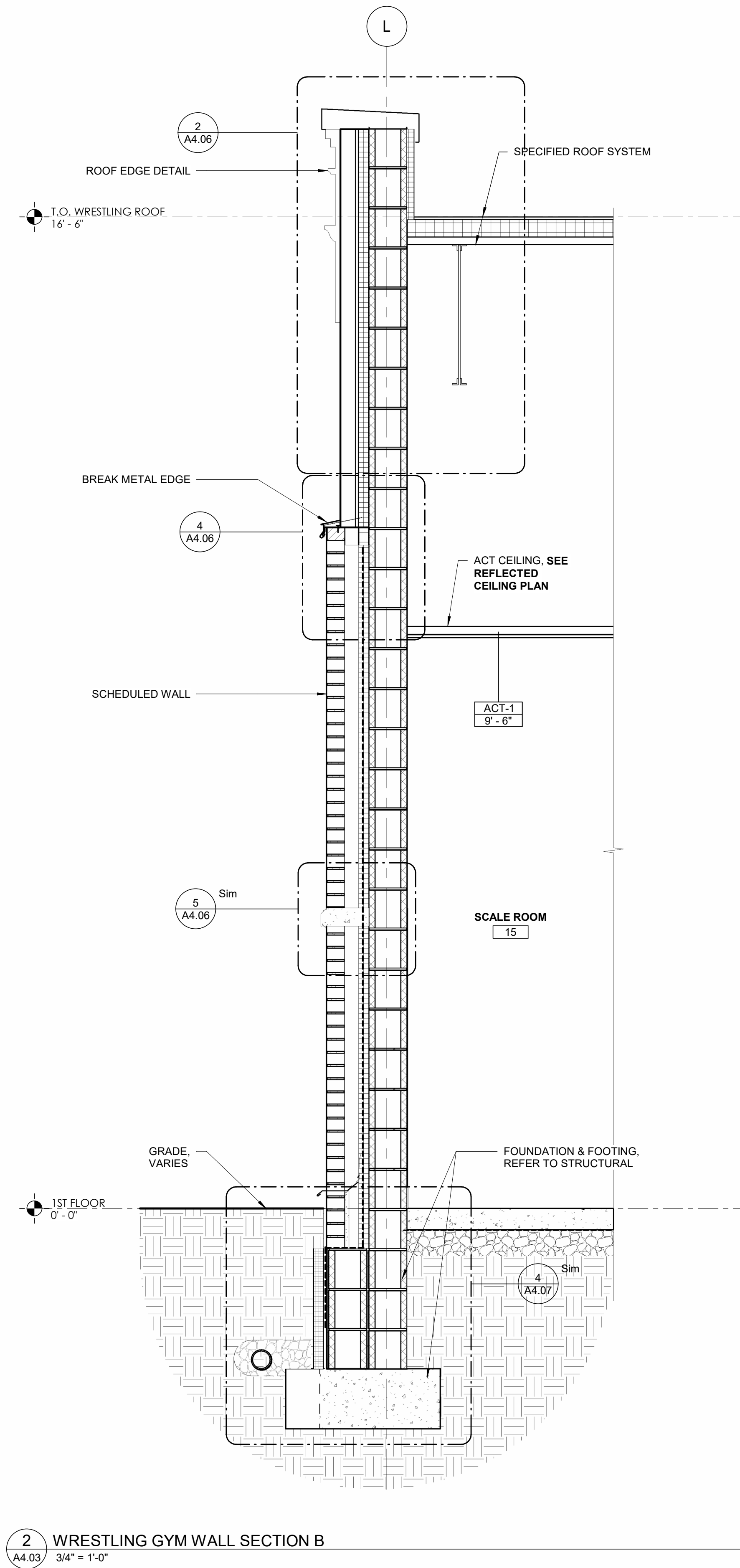


NJ Certificate of Authorization	
Engr. Nos.	24GA27837800
Arch. Nos.	21AC00012400
Date	8/13/2026
Checked	JMP
Drawn	RS
JEFFREY POTTER, R.A. Title REGISTERED ARCHITECT License No. NJ21A02015400	
Date	Description
Engineering, Planning, Architecture, Surveying Inc. 1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 t. 856-375-2701 f. 201-447-1233	
LAN ASSOCIATES WALL SECTIONS @ MAIN GYM NEW HOPKINS GYMNASIUM HADDONFIELD BOE HADDONFIELD MEMORIAL HIGH SCHOOL 401 KINGS HWY E. HADDONFIELD, NJ 08033	
Job No.	2.20277.25.14
File No.	
A4.02	

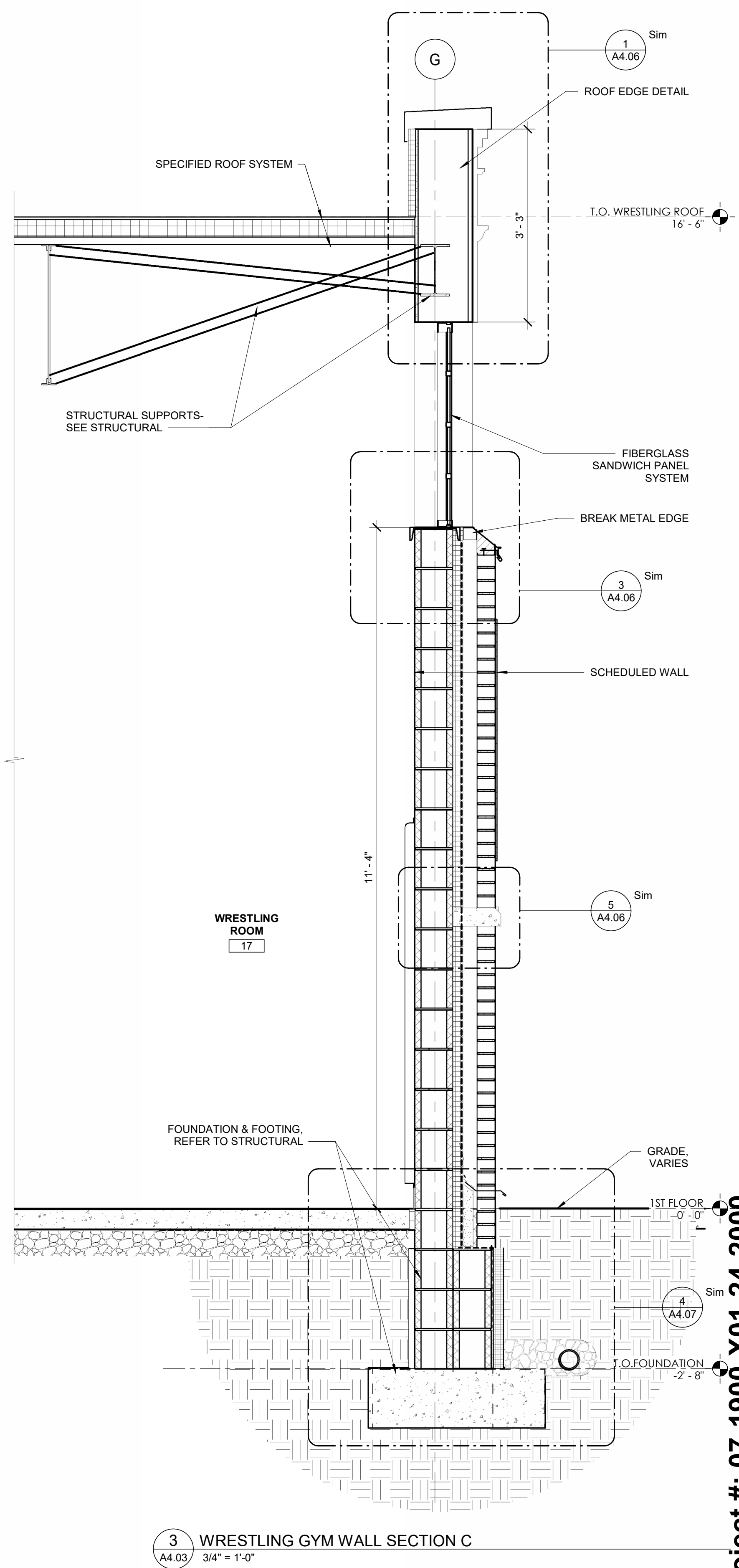
State Project #: 07-1900-X01-24-2000



1 WRESTLING GYM WALL SECTION A
A4.03 3/4" = 1'-0"



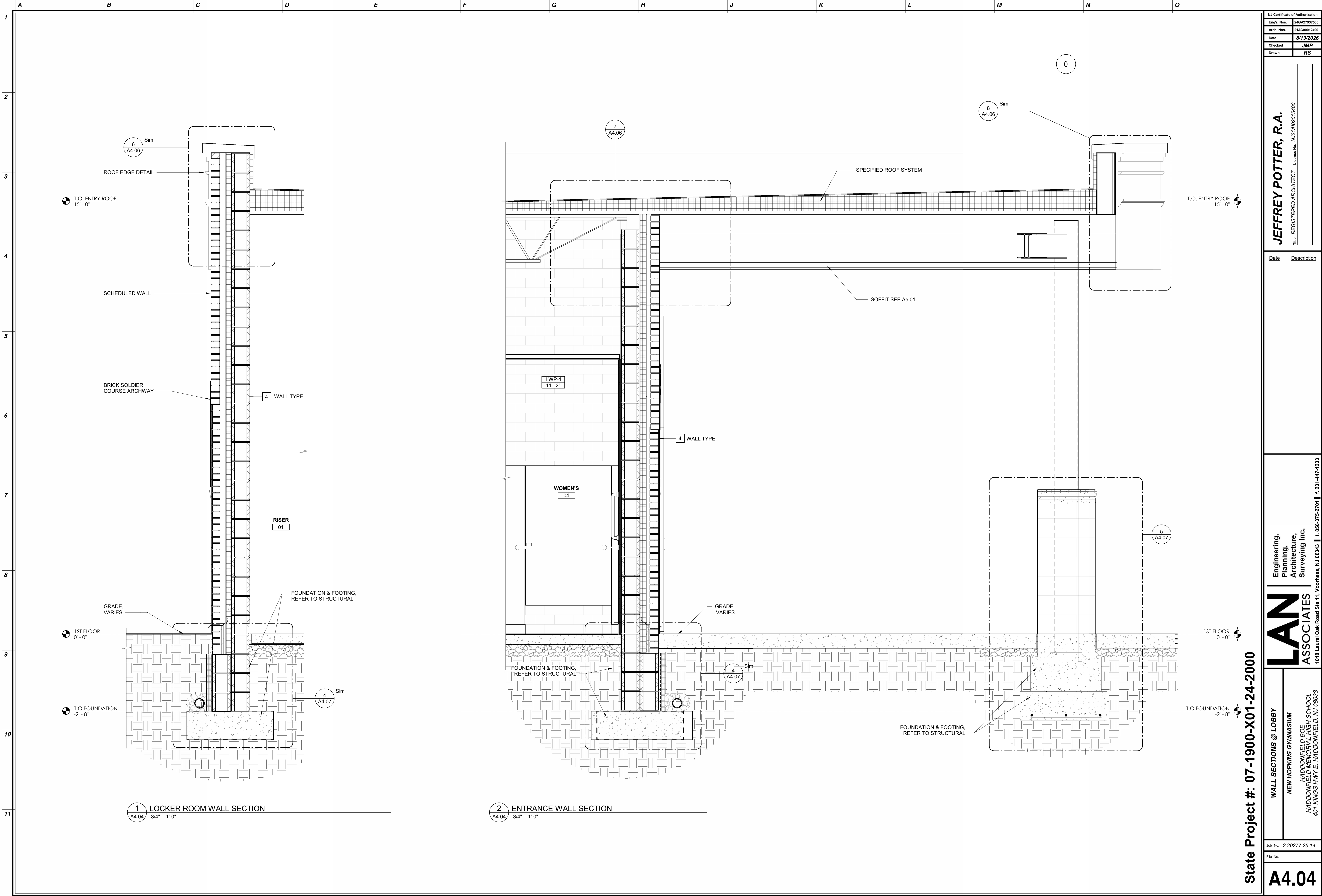
2 WRESTLING GYM WALL SECTION B
A4.03 3/4" = 1'-0"



3 WRESTLING GYM WALL SECTION C
A4.03 3/4" = 1'-0"

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Engineering, Planning, Architecture, Surveying Inc. 1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 t. 856-375-2701 f. 201-447-1233	
LAN ASSOCIATES	
WALL SECTIONS @ WRESTLING GYM NEW HOPKINS GYMNASIUM HADDONFIELD BOE HADDONFIELD MEMORIAL HIGH SCHOOL 401 KINGS HWY E. HADDONFIELD, NJ 08033	
Job No. 2.20277.25.14	
File No.	
A4.03	

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LAN ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

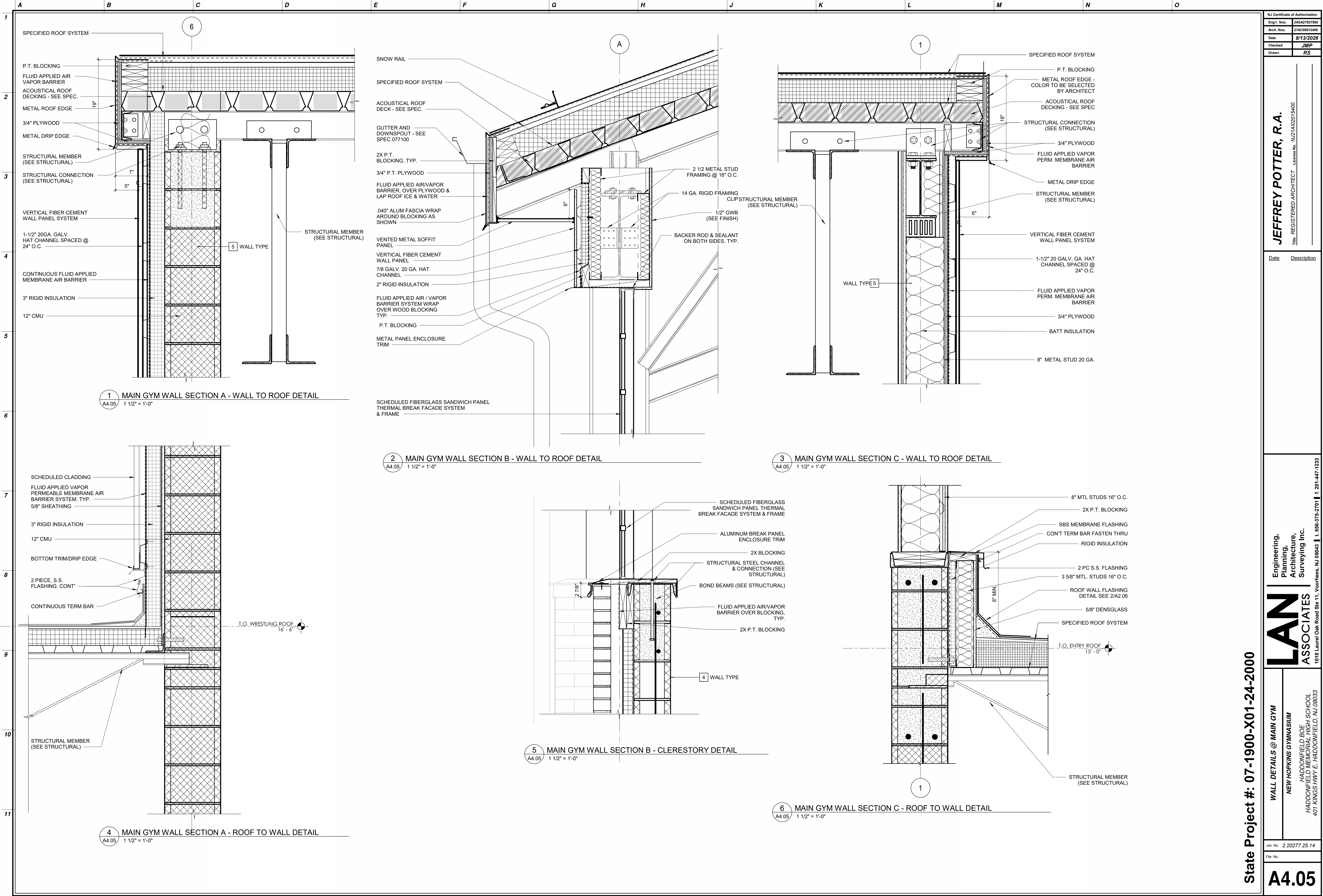
WALL SECTIONS @ LOBBY
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

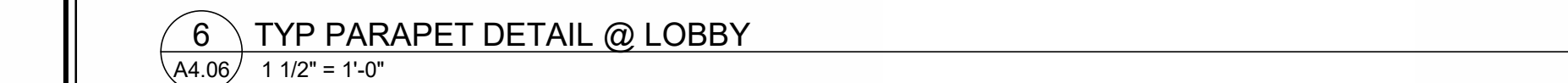
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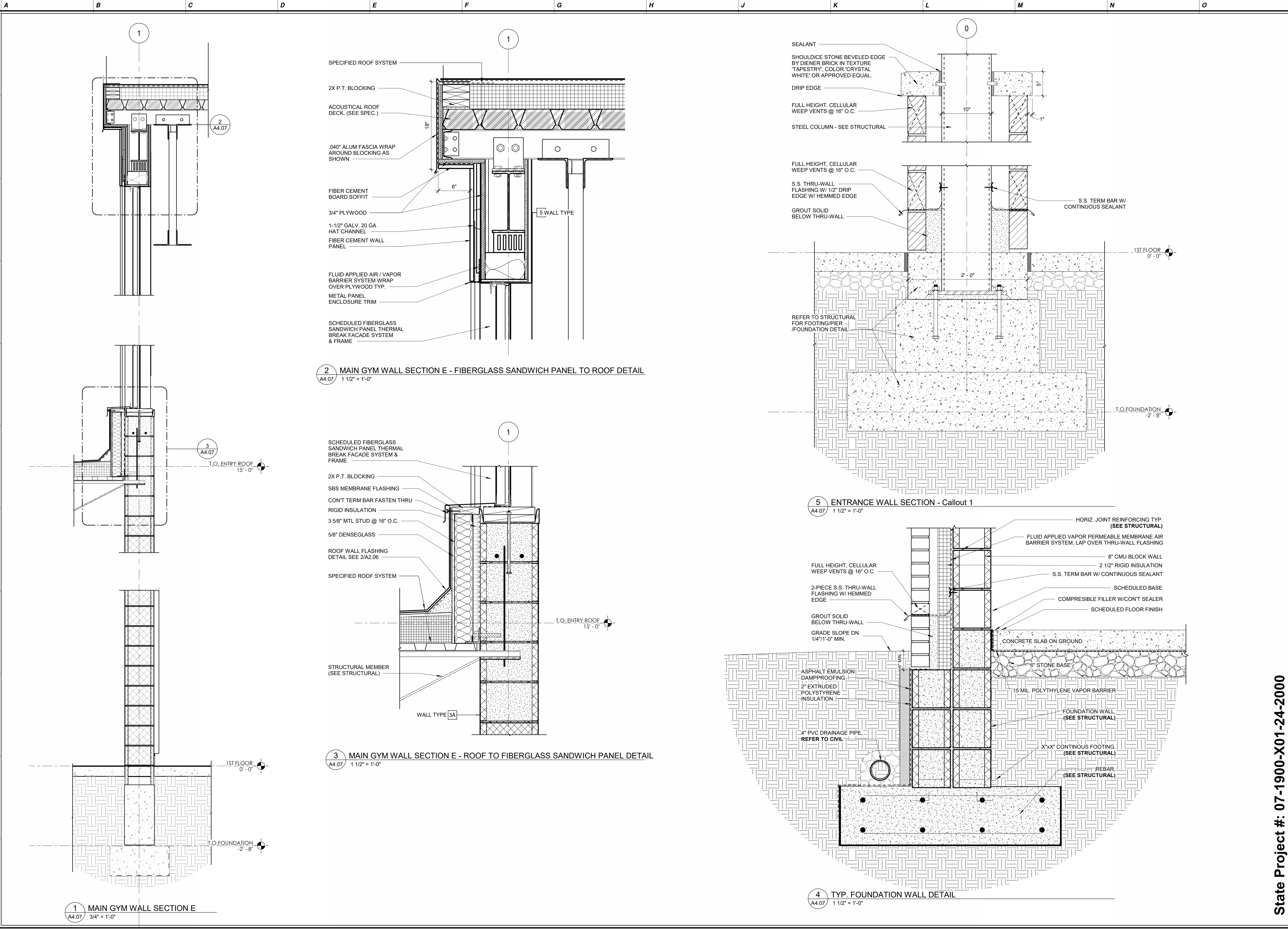
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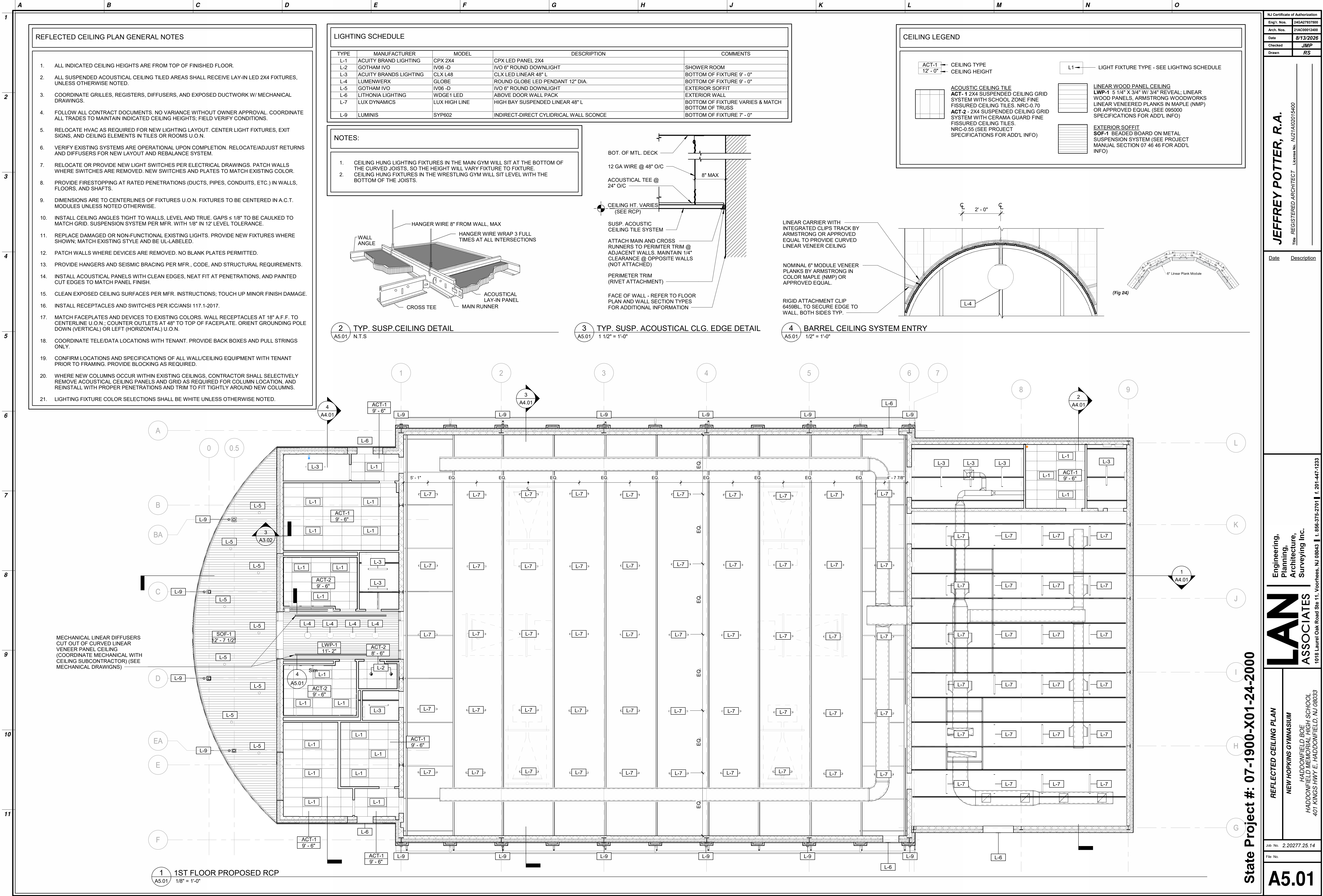
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Job No.	2.20277.25.14
File No.	
A4.05	



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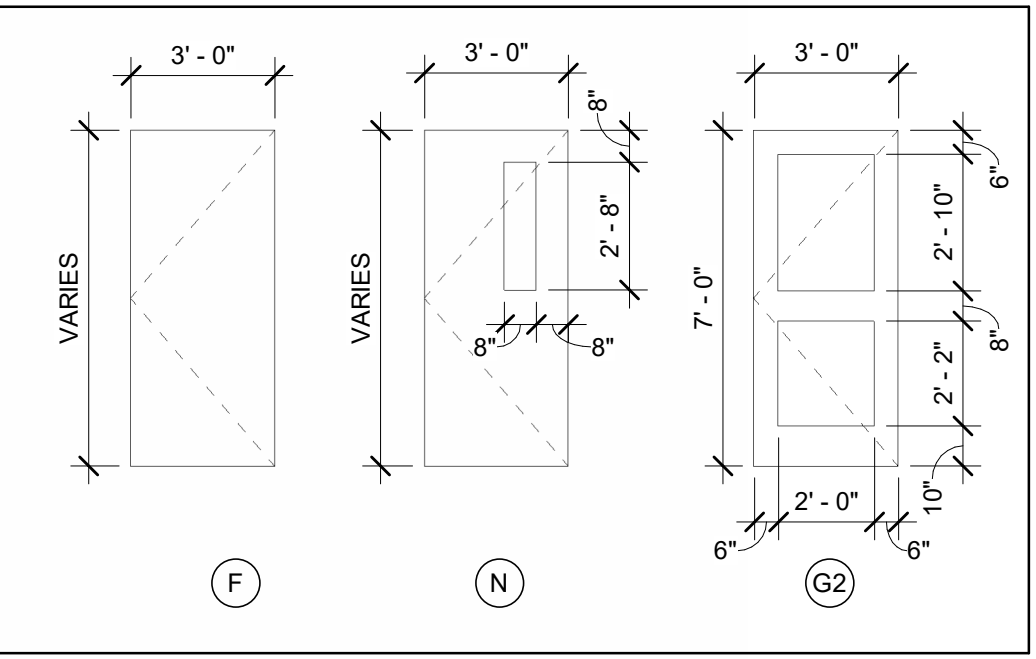
NJ Certificate of Authorization	
Eng'r. Nos.	24GA27837800
Arch. Nos.	21AC00012400
Date	8/13/2026
Checked	JMP
Drawn	RS
JEFFREY POTTER, R.A. REGISTERED ARCHITECT License No. NJ21A02015400	
Date	Description
Engineering, Planning, Architecture, Surveying Inc.	
LAN ASSOCIATES 1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 t. 856-375-2701 f. 201-447-1233	
WALL DETAILS @ VARIOUS LOCATIONS NEW HOPKINS GYMNASIUM HADDONFIELD BOE HADDONFIELD MEMORIAL HIGH SCHOOL 401 KINGS HWY E. HADDONFIELD, NJ 08033	
Job No.	2.20277.25.14
File No.	
A4.07	



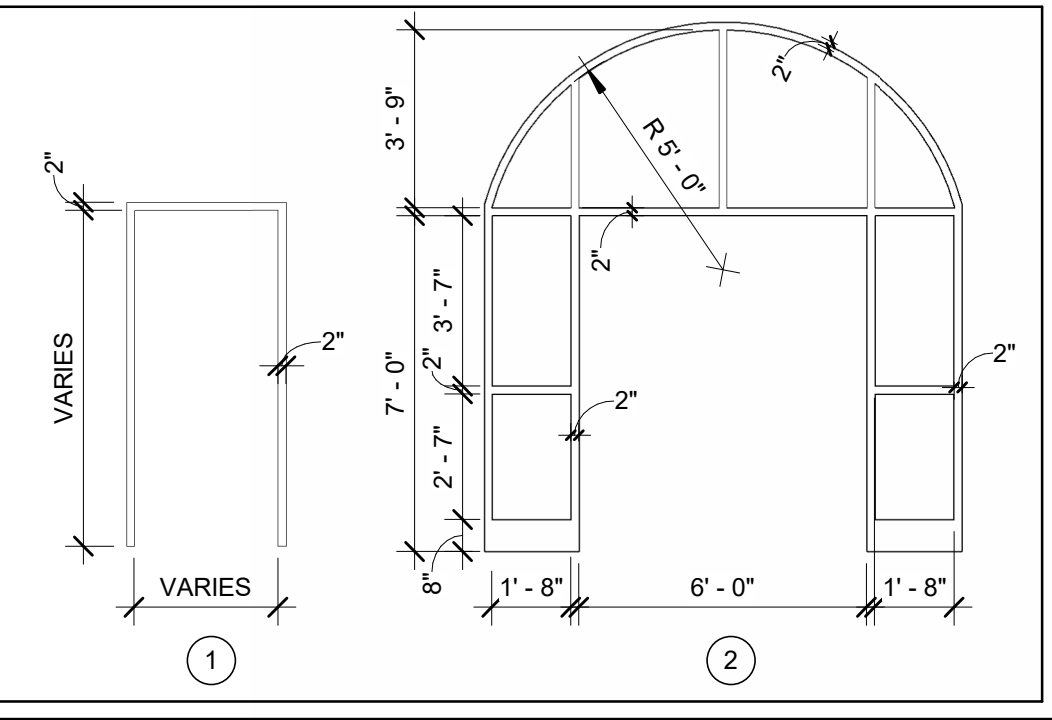
DOOR SCHEDULE

DOOR NO.	ROOM NAME	ROOM NO.	DOOR TYPE	DOOR MATERIAL	DOOR DIMENSIONS (W x H)	FRAME TYPE	FRAME MATERIAL	HEAD DETAIL	JAMB DETAIL	INTERIOR SADLE	GLAZING TYPE	FIRE RATING	HARDWARE SET	Door Sign (ADA)	Comments
01	RISER	01	F	WD	36" x 84"	1	HM	H1	J1	S1	-	-	7.0	TYPE 1	
02A	VESTIBULE	02	F	FRP	36" x 86"	1	HM	H4	J4	-	-	-	2.0	TYPE 4, 1	
02B	VESTIBULE	02	N	WD	36" x 86"	1	HM	H2	J2	S3	GL-1	-	12.0	TYPE 1, 1	
03	LOCKER/TEAM ROOM	03	F	WD	36" x 84"	1	HM	H1	J1	S1	-	-	10.0	TYPE 1	
04	WOMEN'S	04	F	WD	36" x 84"	1	HM	H1	J1	S1	-	-	13.0	TYPE 7	
05	STORAGE	05	F	WD	36" x 84"	1	HM	H1	J1	S1	-	-	7.0	TYPE 1	
06A	ENTRY	06	G2	ALUM.	72" x 84"	2	ALUM.	H5	J5	-	GL-2	-	1.0		
06B	ENTRY	06	G2	ALUM.	72" x 84"	2	ALUM.	H3	J3	S3	GL-1	-	4.0	TYPE 1, 3	
07	MEN'S	07	F	WD	36" x 84"	1	HM	H1	J1	S1	-	-	13.0	TYPE 6	
08	SHOWER	08	F	WD	36" x 84"	1	HM	H1	J1	S1	-	-	11.0	TYPE 2	
09	JANITOR	09	F	WD	36" x 86"	1	HM	H2	J2	S3	-	-	7.0	TYPE 1	
10	ATHLETIC TRAINER	10	N	WD	36" x 84"	1	HM	H1	J1	S1	GL-1	-	9.0	TYPE 5	
11	LOCKER ROOM	11	F	WD	36" x 84"	1	HM	H1	J1	S1	-	-	9.0	TYPE 1	
12A	VESTIBULE	12	F	FRP	36" x 86"	1	HM	H4	J4	-	-	-	2.0	TYPE 4, 1	
12B	VESTIBULE	12	N	WD	36" x 86"	1	HM	H2	J2	S3	GL-1	-	12.0	TYPE 1, 1	
13B	GYMNASIUM	13	F	FRP	36" x 86"	1	HM	H4	J4	-	-	-	3.0	TYPE 4	
13D	GYMNASIUM	13	F	FRP	36" x 86"	1	HM	H4	J4	-	-	-	3.0	TYPE 4	
14	STORAGE	14	F	ALUM.	72" x 86"	1	HM	H1	J1	S3	-	-	6.0	TYPE 1	
15	SCALE ROOM	15	N	WD	36" x 86"	1	HM	H2	J2	S2	GL-1	-	8.0	TYPE 5	
16	ELEC.	16	N	WD	36" x 86"	1	HM	H2	J2	S2	GL-1	-	7.0	TYPE 1	
17A	WRESTLING ROOM	17	F	ALUM.	72" x 86"	1	HM	H1	J1	S3	-	-	5.0	TYPE 1, 3, 4	
17B	WRESTLING ROOM	17	F	WD	36" x 86"	1	HM	H2	J2	S3	-	-	5.0	TYPE 1	
17C	WRESTLING ROOM	17	F	FRP	72" x 86"	1	HM	H4	J4	-	-	-	1.0	TYPE 4, 1	

DOOR TYPES

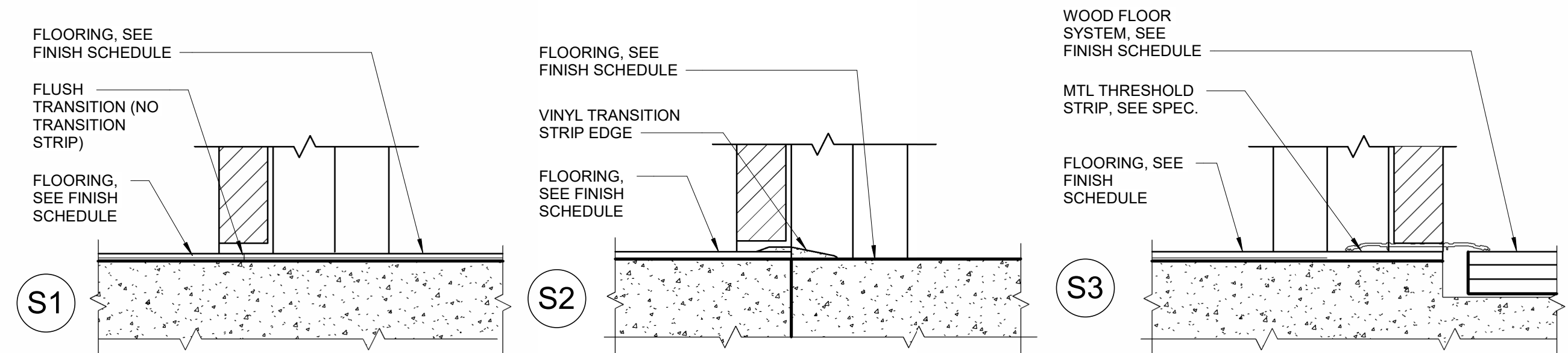


FRAME TYPES

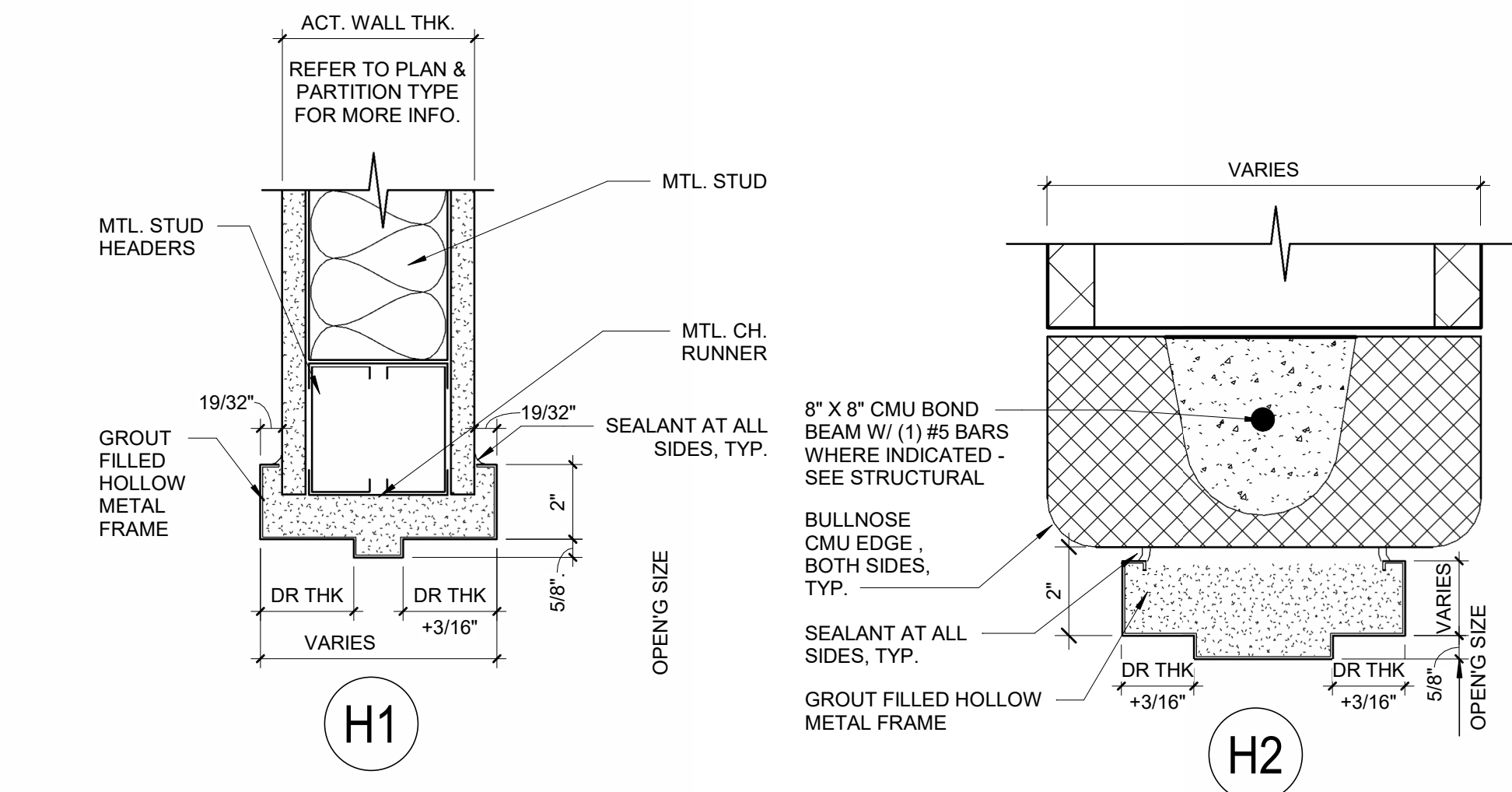


GLAZING TYPES

G-1	1/4" CLEAR TEMPERED (INTERIOR DOORS)
G-2	1" INSULATING GLASS UNIT, TEMPERED, COATED LOW E (EXTERIOR WINDOWS)
FSP-1	1 3/4" TRANSLUCENT INSULATED GLAZING UNIT (FIBERGLASS SANDWICH PANEL)

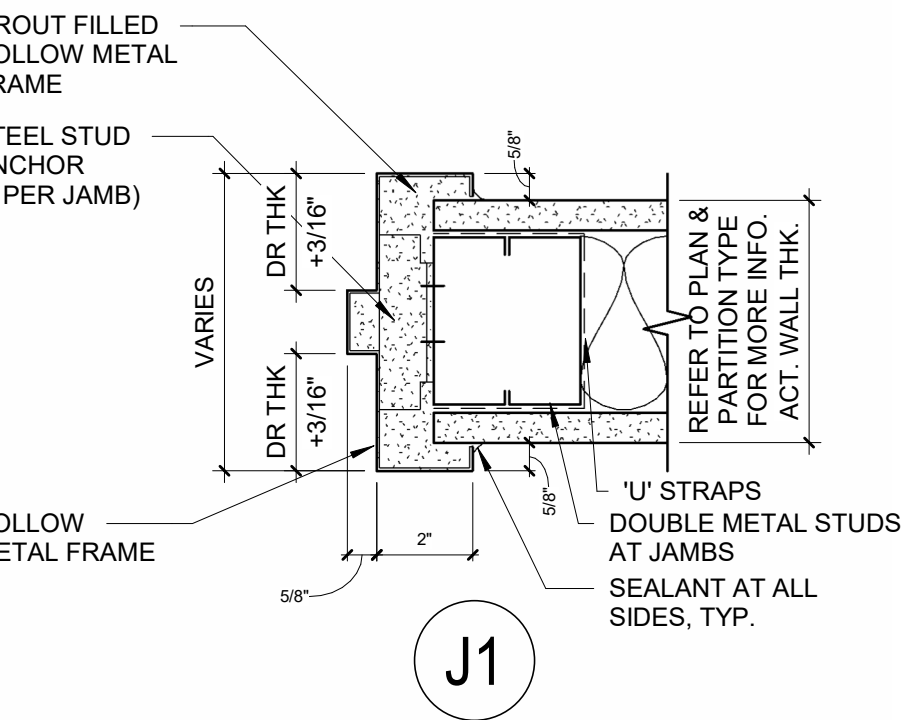


1 TYP. SADDLE DETAILS
A6.01 3" = 1'-0"

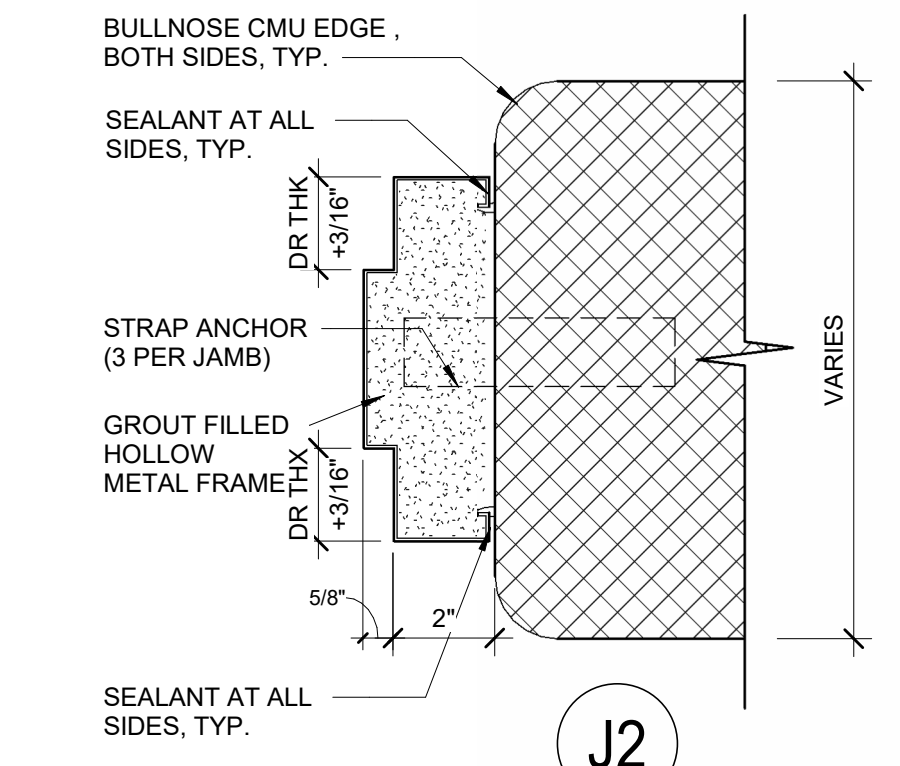


2 H1 HEADER DETAIL
A6.01 3" = 1'-0"

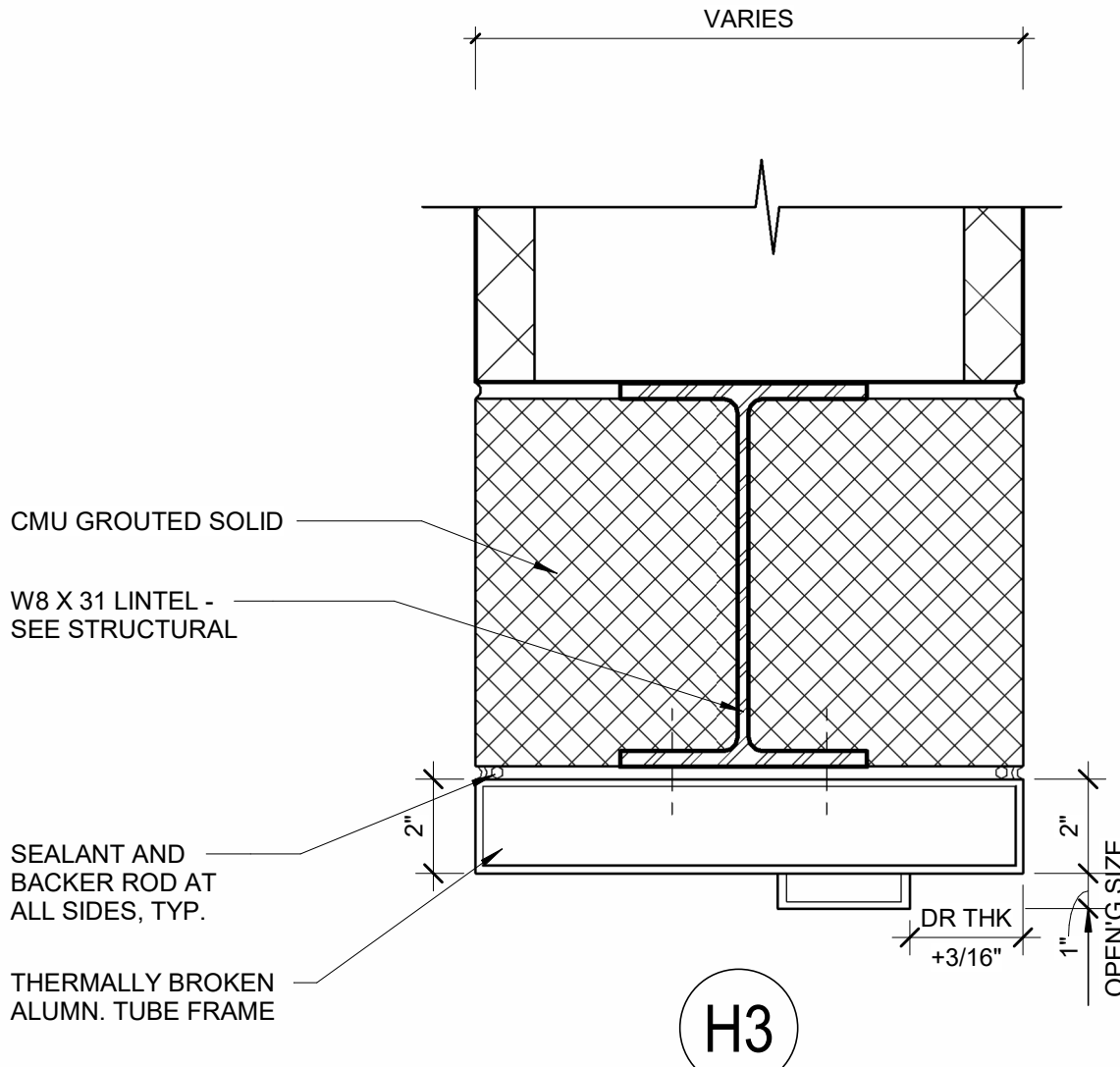
3 H1- HEADER DETAIL
A6.01 3" = 1'-0"



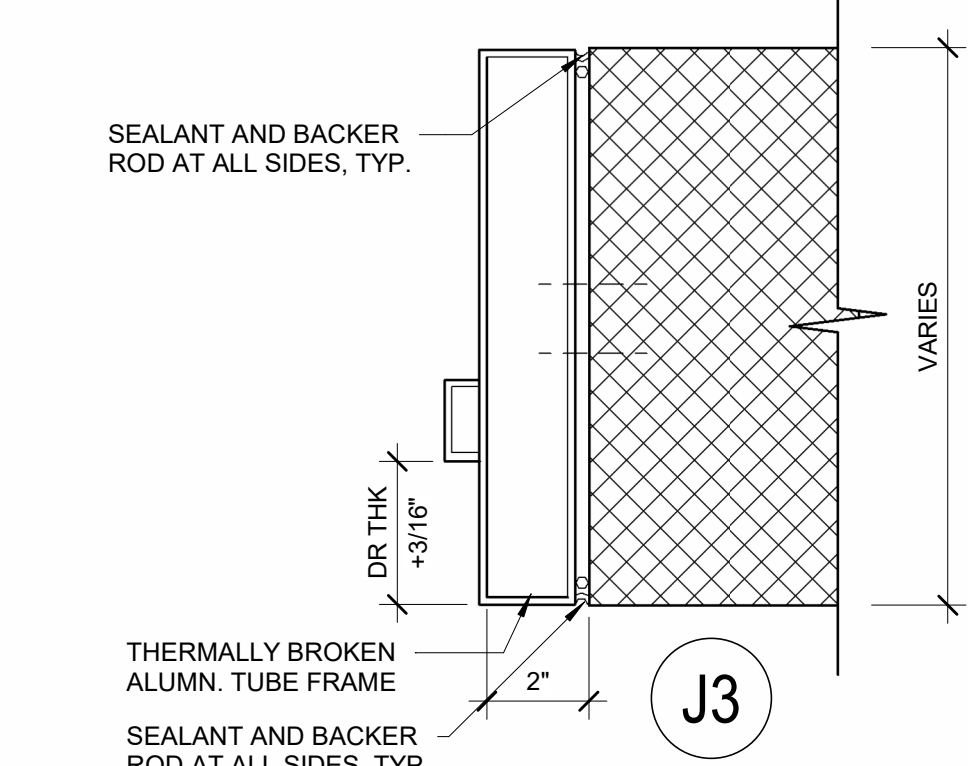
7 J1 JAMB DETAIL
A6.01 3" = 1'-0"



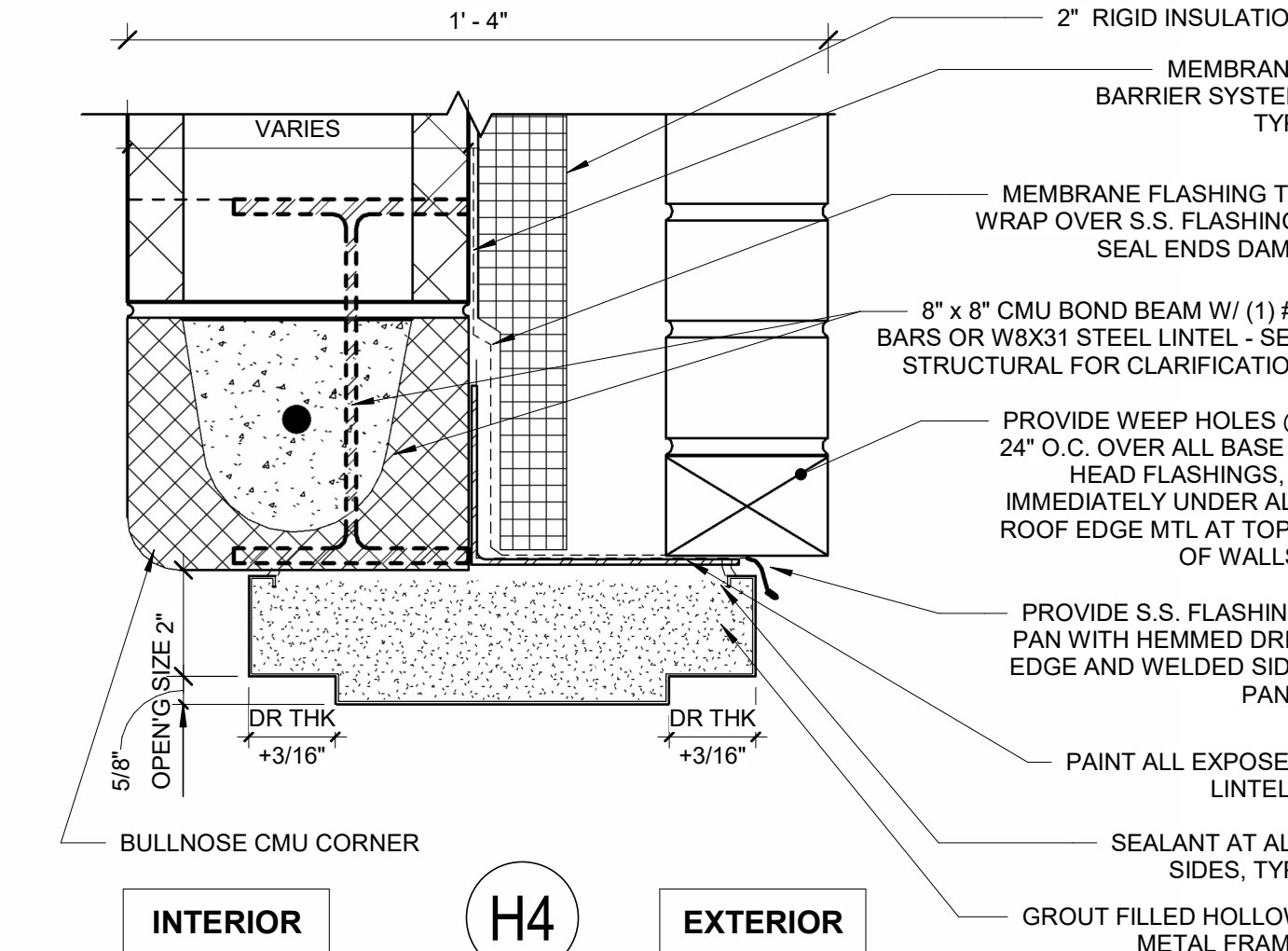
8 J1- JAMB DETAIL
A6.01 3" = 1'-0"



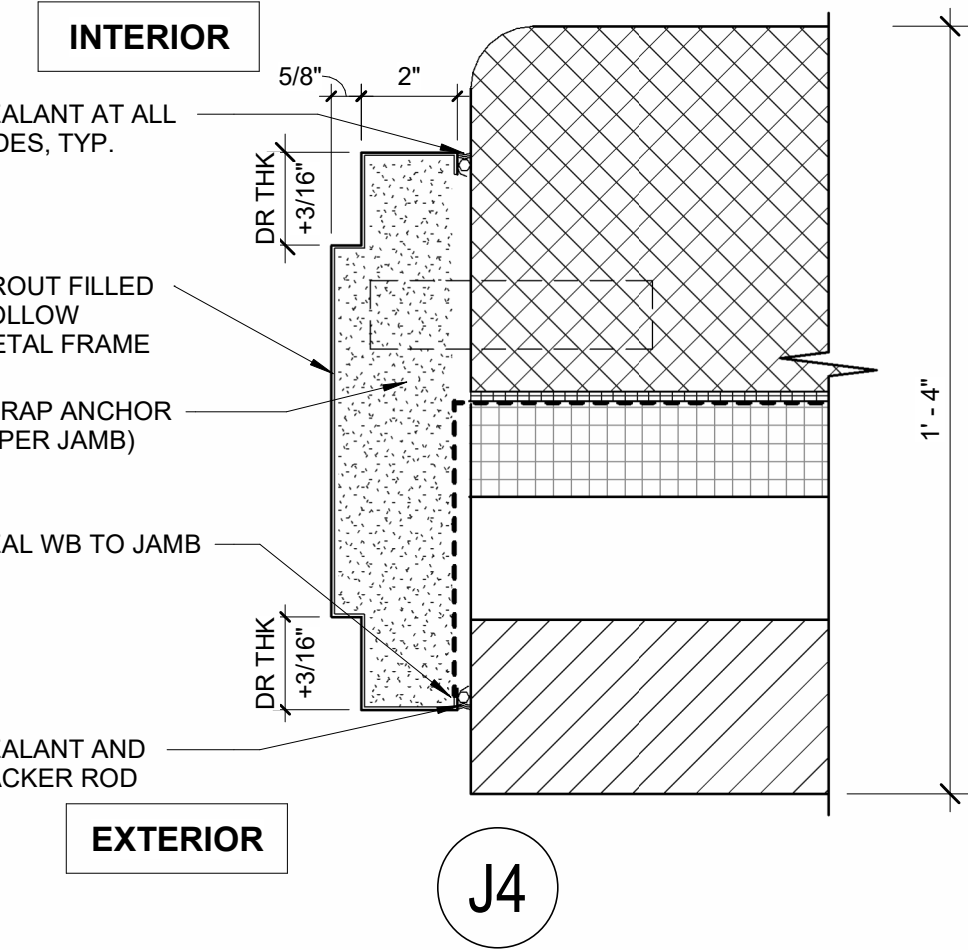
4 H#- HEADER DETAIL
A6.01 3" = 1'-0"



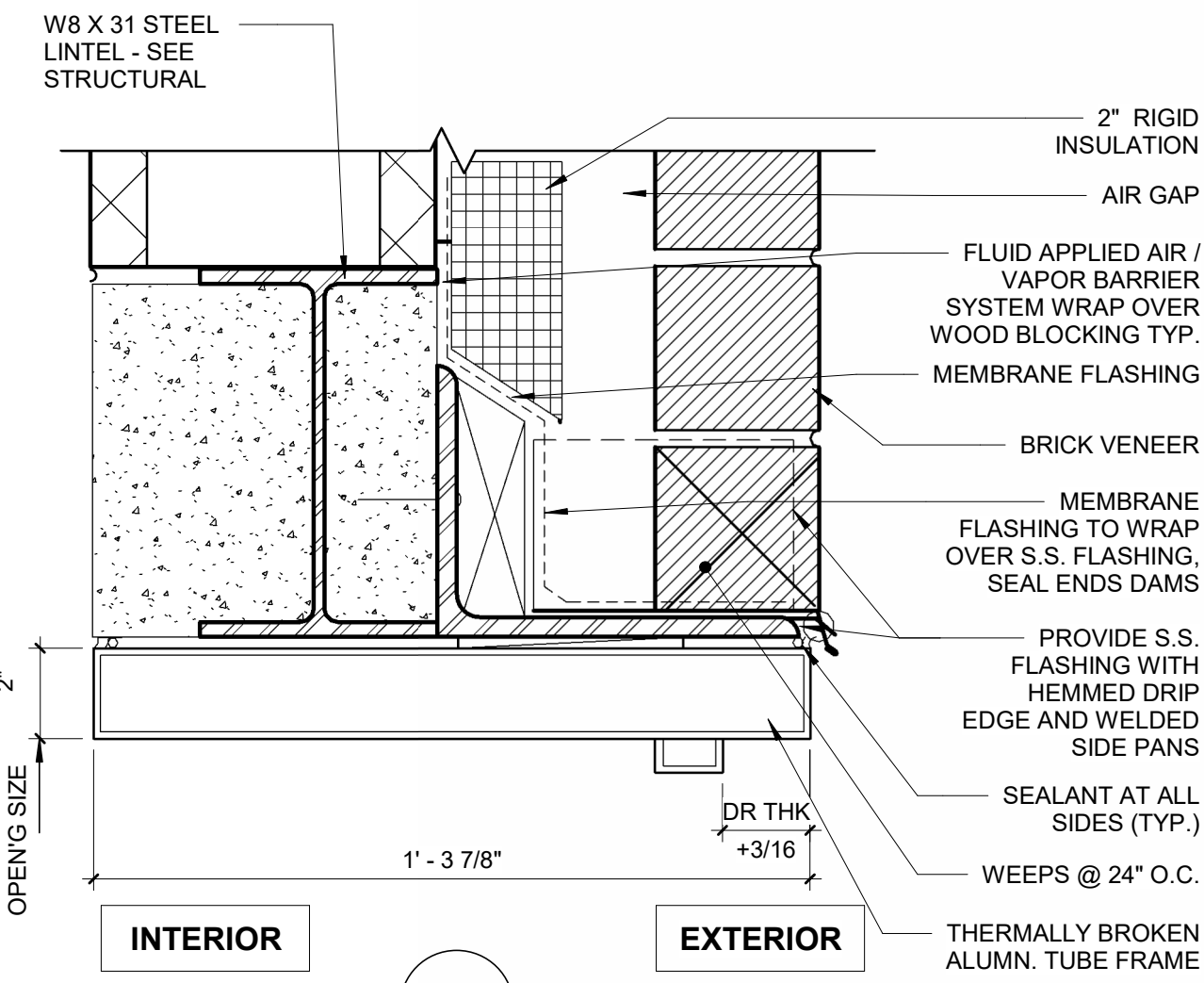
9 J#- JAMB DETAIL
A6.01 3" = 1'-0"



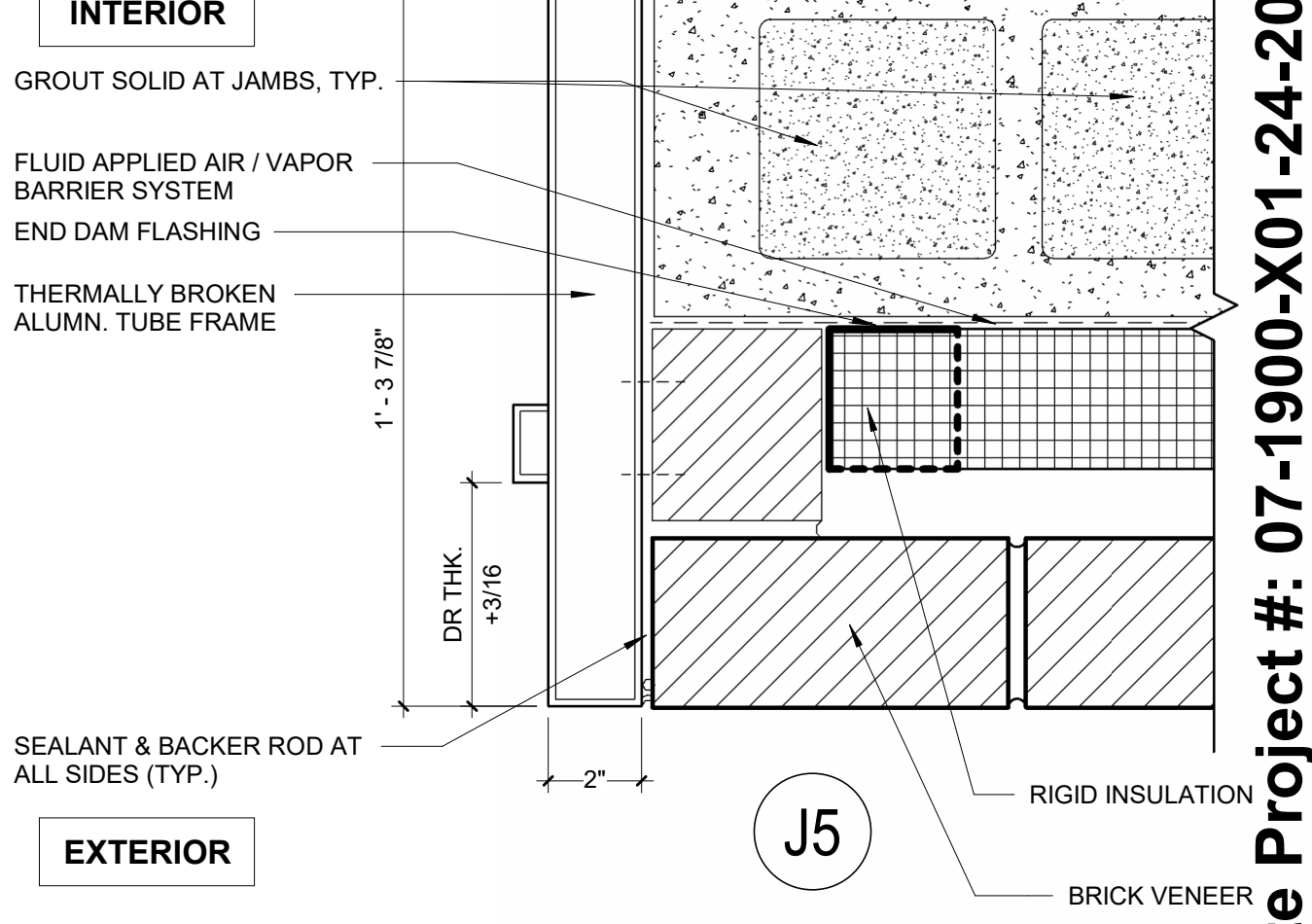
5 H2- HEADER DETAIL
A6.01 3" = 1'-0"



10 J2- JAMB DETAIL
A6.01 3" = 1'-0"



6 H-4 HEAD
A6.01 3" = 1'-0"



11 J-4 JAMB
A6.01 3" = 1'-0"

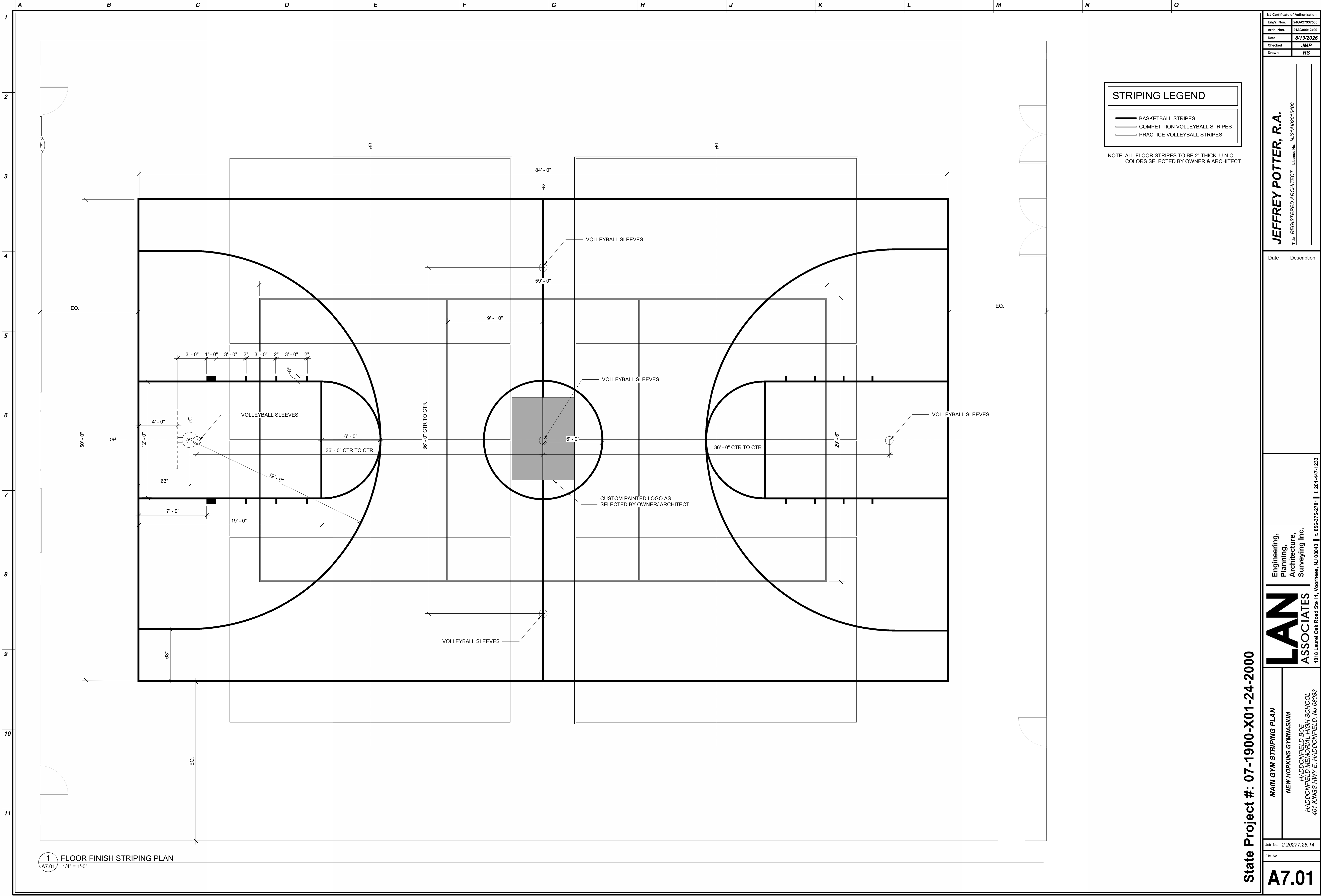
NJ Certificate of Authorization
Eng'r. Nos. 24GA27837800
Arch. Nos. 21AC00012400
Date 8/13/2026
Checked JMP
Drawn RS
JEFFREY POTTER, R.A.
Title REGISTERED ARCHITECT License No. NJ21A02015400

Date Description

Engineering,
Planning,
Architecture,
Surveying Inc.
LAN ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

DOOR SCHEDULE, DOOR TYPES & DETAILS
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033
Job No. 2.20277.25.14
File No.
A6.01

State Project #: 07-1900-X01-24-2000



STRIPING LEGEND

BASKETBALL STRIPES

COMPETITION VOLLEYBALL STRIPES

PRACTICE VOLLEYBALL STRIPES

NOTE: ALL FLOOR STRIPES TO BE 2" THICK, U.N.O. COLORS SELECTED BY OWNER & ARCHITECT

NJ Certificate of Authorization

Eng'r. Nos.	24GA27837800
Arch. Nos.	21AC00012400
Date	8/13/2026
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.

REGISTERED ARCHITECT

License No. NJ21A02015400

Date	Description

Engineering,
Planning,
Architecture,
Surveying Inc.

LAN ASSOCIATES

1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

MAIN GYM STRIPING PLAN

NEW HOPKINS GYMNASIUM

HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

File No.

A7.01

1 FLOOR FINISH STRIPING PLAN
A7.01 1/4" = 1'-0"

1
2
3
4
5
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10
11

A

B

C

D

E

F

G

H

J

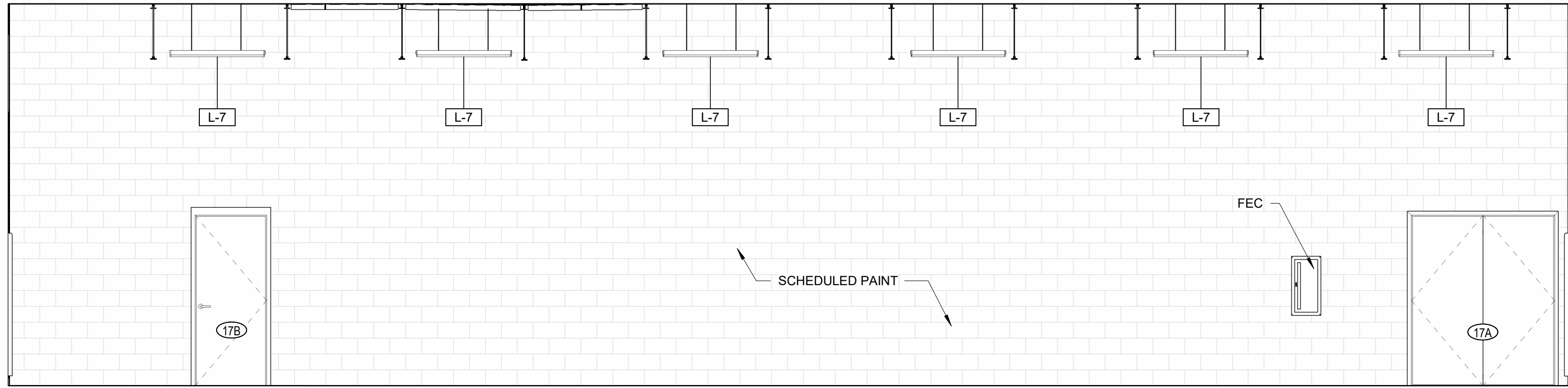
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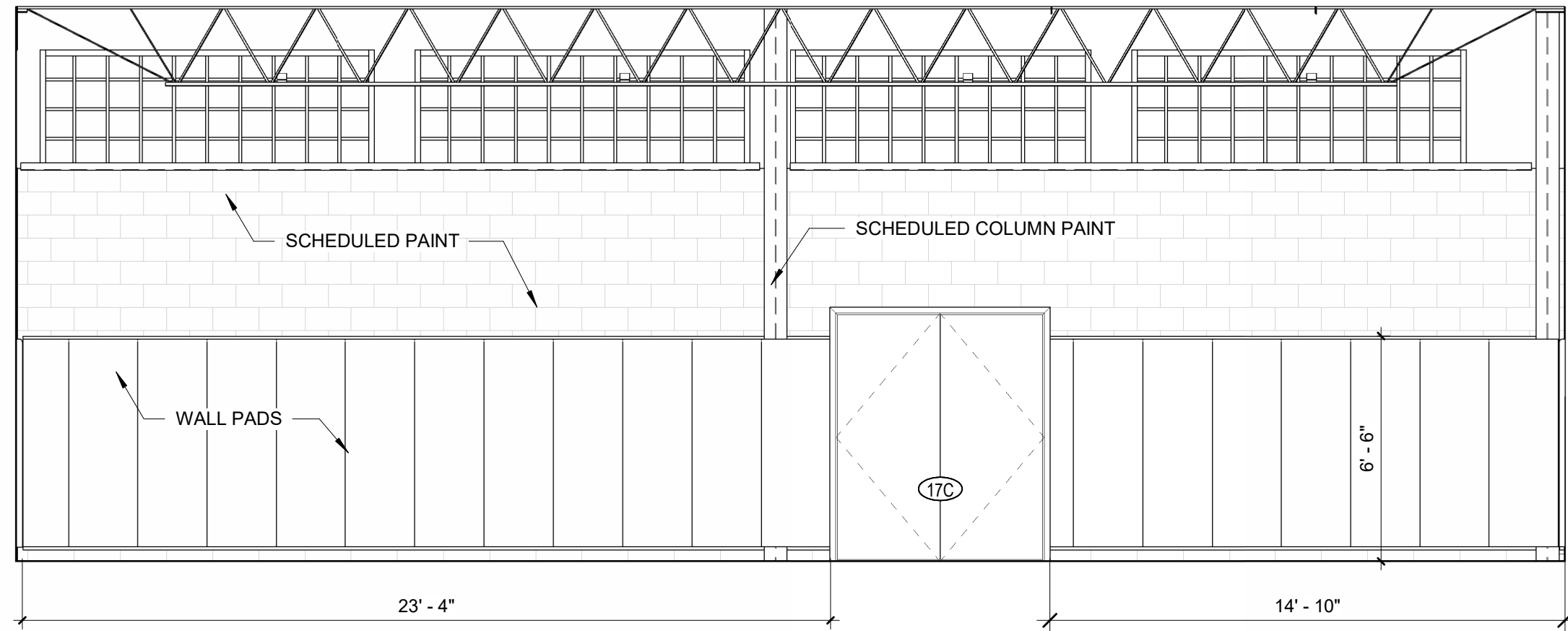
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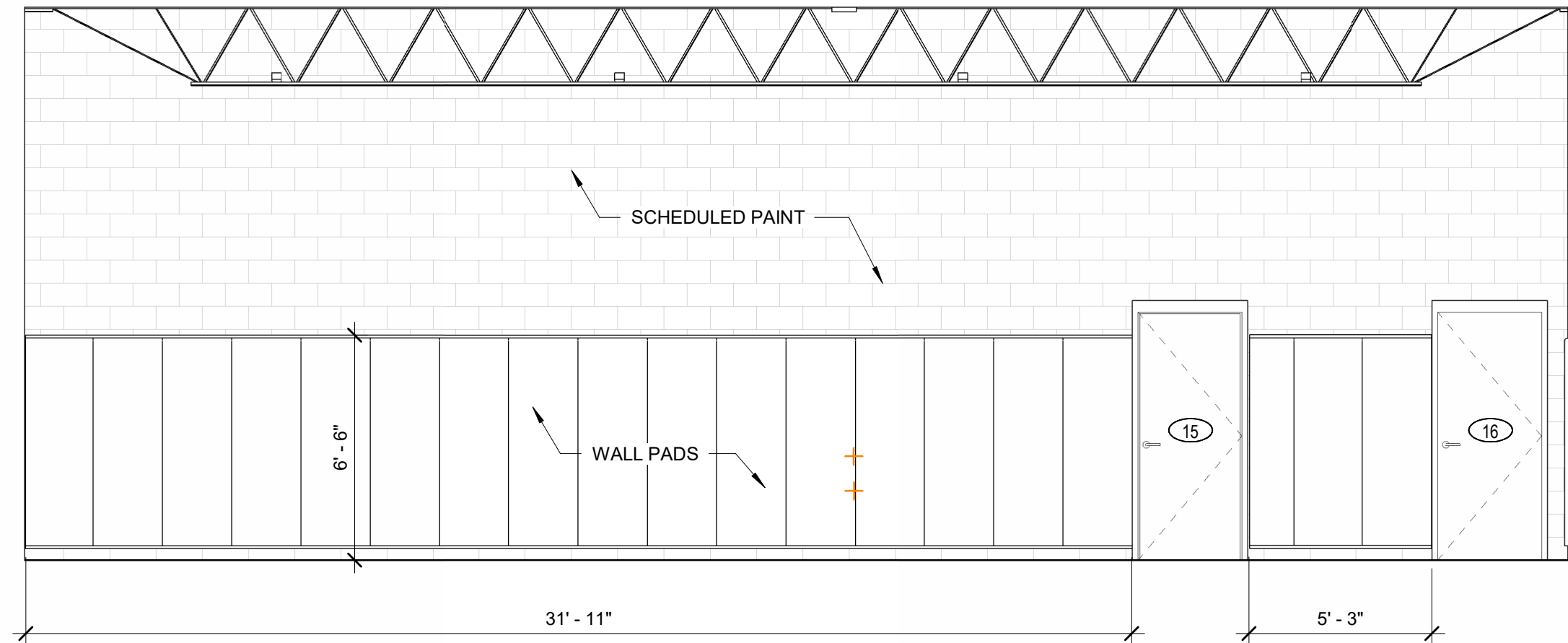
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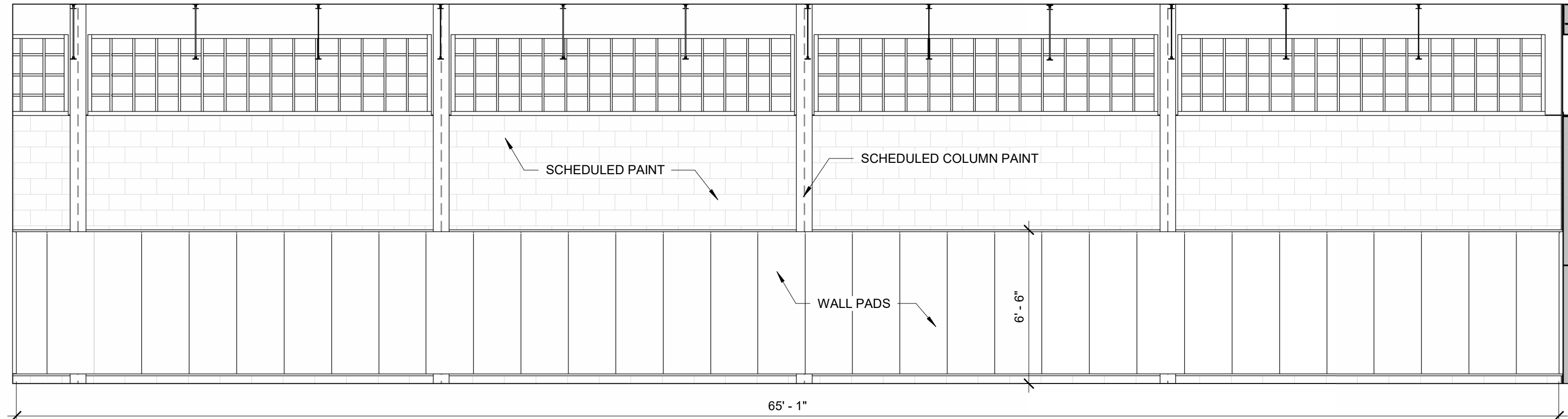
1 WRESTLING GYM WEST
A7.04 1/4" = 1'-0"



2 WRESTLING GYM SOUTH
A7.04 1/4" = 1'-0"



3 WRESTLING GYM NORTH
A7.04 1/4" = 1'-0"



4 WRESTLING GYM EAST
A7.04 1/4" = 1'-0"

SPECIALTY EQUIPMENT	
TYPE	DESCRIPTION
BB-1	CEILING SUSPENDED BACKSTOP (OFOI, CONTRACTOR TO PROVIDE POWER)
BL-1	MOTORIZED BLEACHERS (OFOI, CONTRACTOR TO PROVIDE POWER- SEE ELECTRICAL DRAWINGS)
DP-1	20" X 30" DEDICATED PLAQUE - SEE SPEC
FEC	FIRE EXTINGUISHER CABINET - SEE SPEC
GB-1	18", 24" & 42" ADA GRAB BARS W/ SAFETY GRIP FINISH (BOBRICK DB-6806.99 SERIES)
ICE-E	EXISTING ICE MAKER (OFOI) CONTRACTOR TO PROVIDE HOOK-UP FOR INSTALLATION (SEE ELECTRICAL AND PLUMBING)
LOC-1	18" W TEAM LOCKERS, SLOPED TOP (OFOI, CONTRACTOR TO PROVIDE BLOCKING FOR INSTALLATION)
LOC-2	30" W ADA TEAM LOCKERS, SLOPED TOP, TOP SHELF TO BE NO MORE THAN 54" TALL (OFOI, CONTRACTOR TO PROVIDE BLOCKING FOR INSTALLATION)
M-1	WELDED FRAME STAINLESS STEEL MIRROR - 24"X30"
PT-1	SURFACE MOUNTED PAPER TOWEL ROLL
SB-1	SCORE BOARD (OFOI) CONTRACTOR TO PROVIDE POWER (SEE ELECTRICAL)
SN-1	SANITARY NAPKIN DISPOSAL (OFOI) - PROVIDE AT ALL WOMEN'S TOILETS
SP-1	SURFACE MOUNTED SOAP DISPENSER (OFCI)
TB-1	TACK BOARD 4" X 6'
TP-1	TOILET TISSUE DISPENSER (OFCI)
TS-1	TOILET PARTITIONS - SEE SPEC.
US-1	URINAL SCREEN - SEE SPEC.
W-1	SURFACE MOUNTED WASTE RECEPTACLE - TRIM LINE SERIES BY BOBRICK
W/D	WASHER & DRYER STACKED UNIT (OFOI) CONTRACTOR TO PROVIDE HOOKUP (SEE ELECTRICAL, PLUMBING & MECHANICAL DRAWINGS)
WP-1	24" W 6' H WALL PADS (OFOI)

REFER TO SHEET A9.0 FOR
FINISH PLANS & LEGEND FOR
SCHEDULED FINISHES.

NJ Certificate of Authorization	
Engr. Nos.	24GA27837800
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JEFFREY POTTER, R.A.
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Date	Description
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Engineering,
Planning,
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Surveying Inc.

LAN
ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

ENLARGED ELEVATIONS @ WRESTLING ROOM
NEW HOPKINS GYMNASIUM

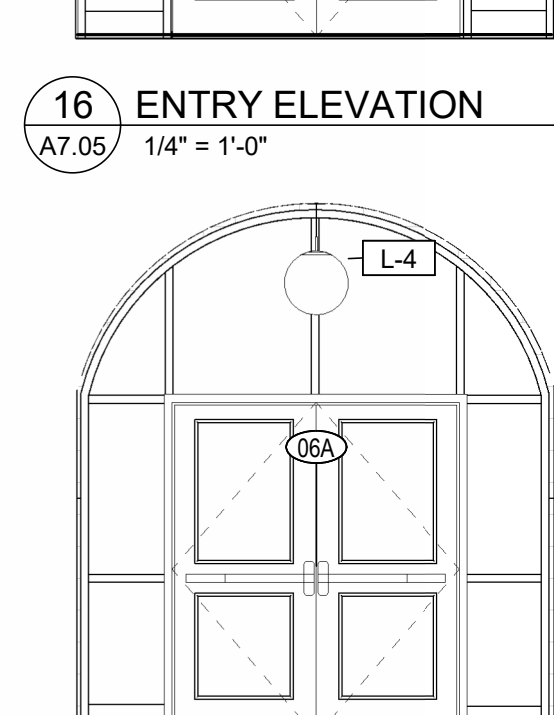
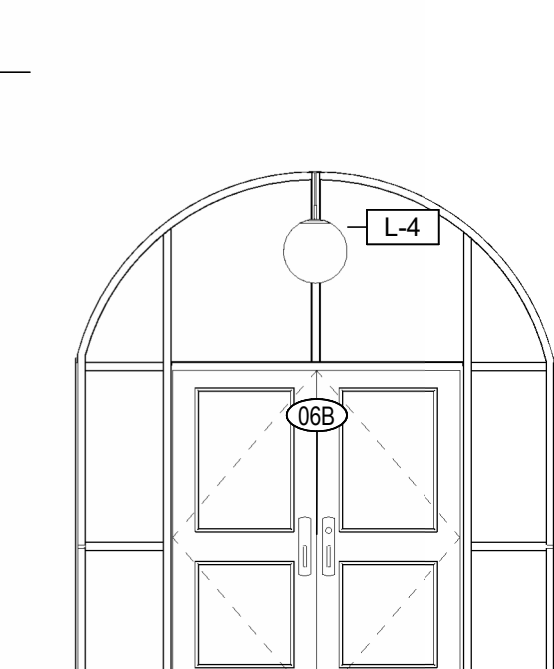
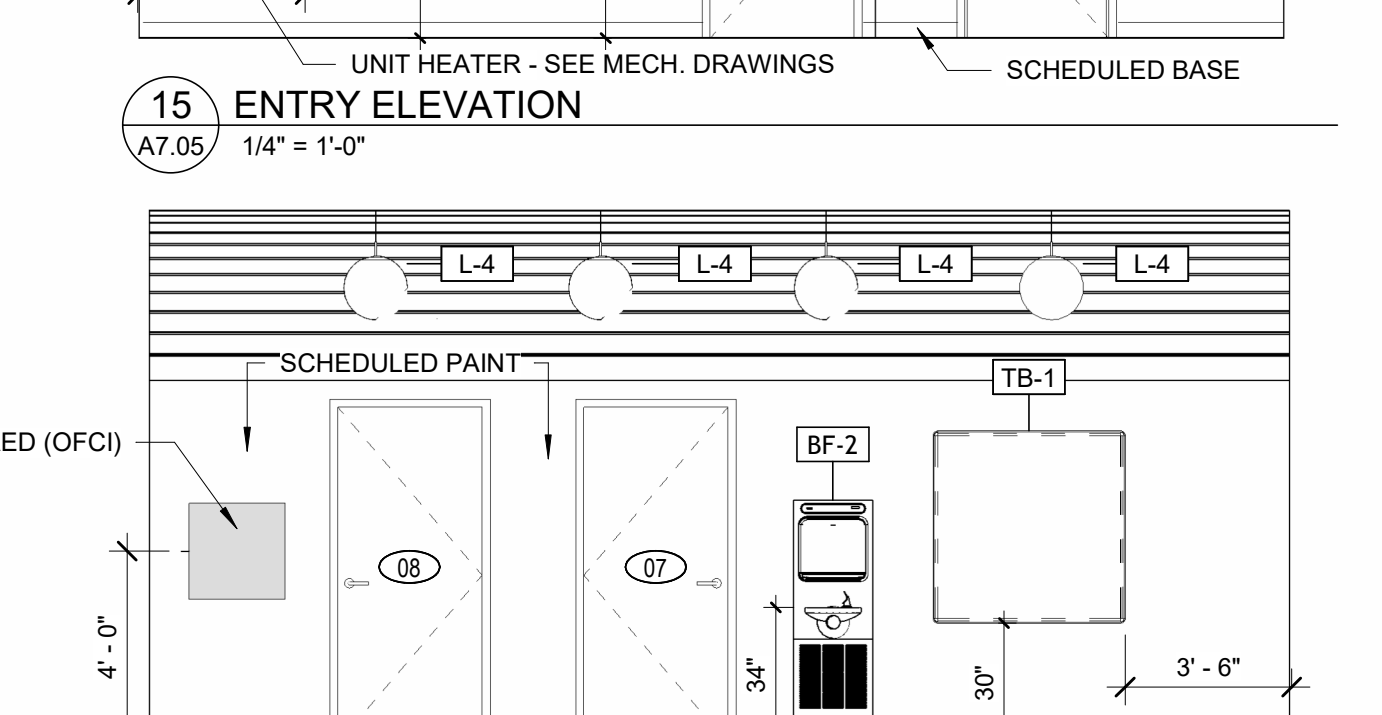
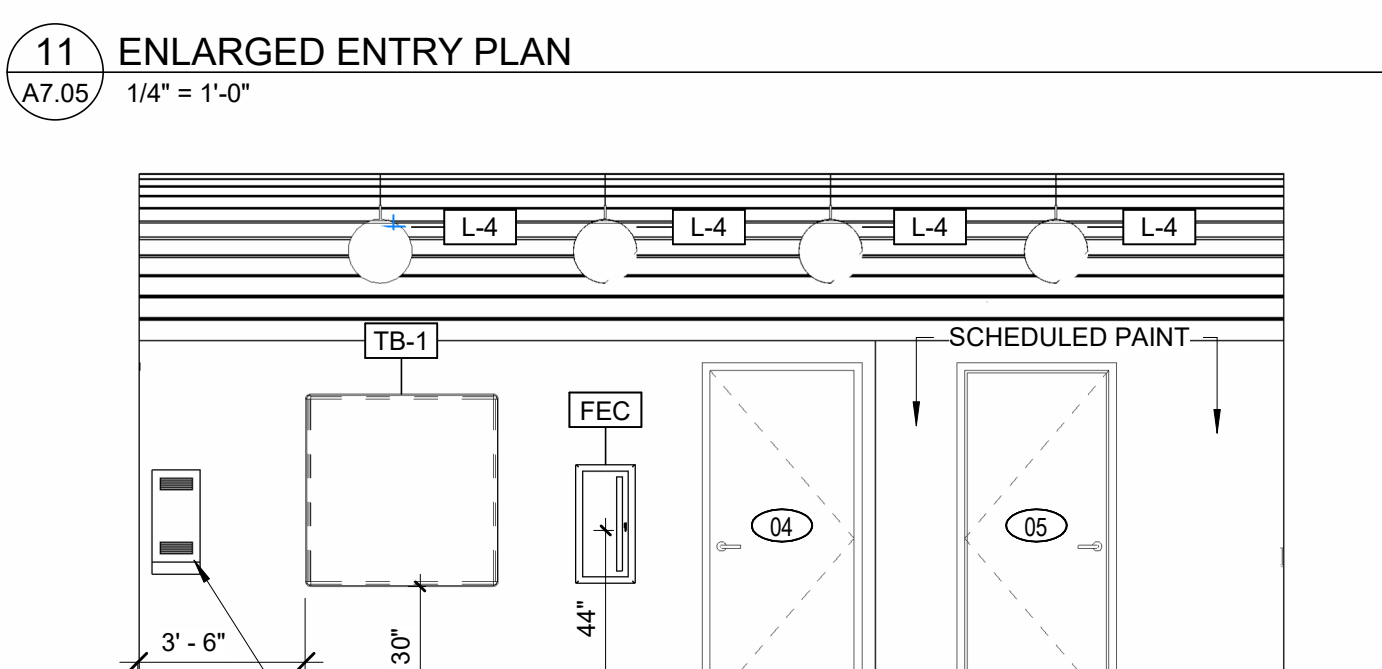
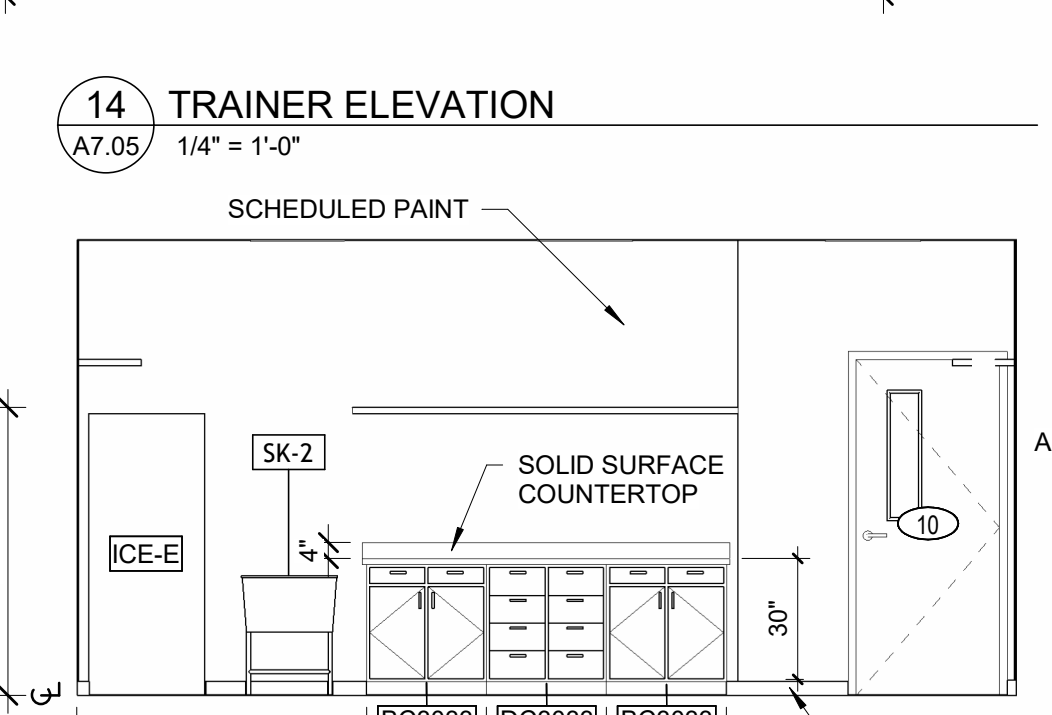
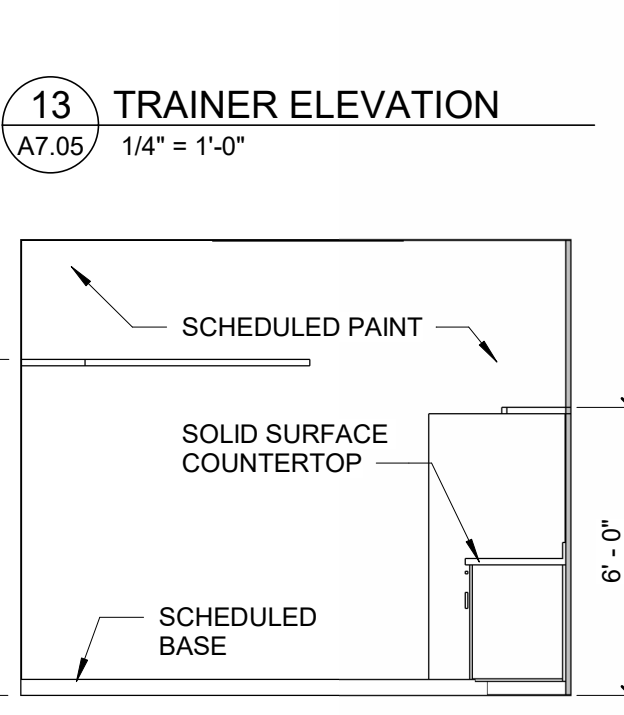
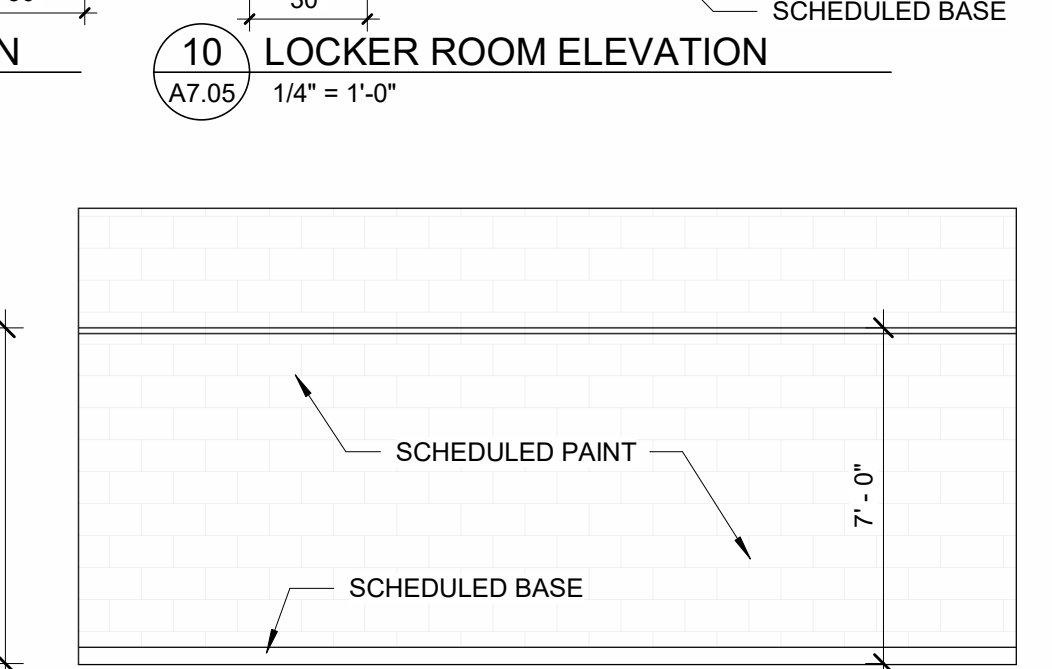
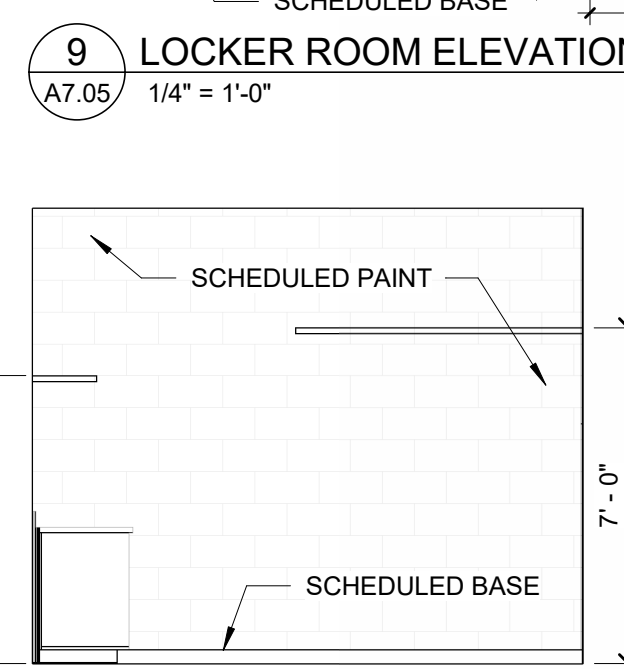
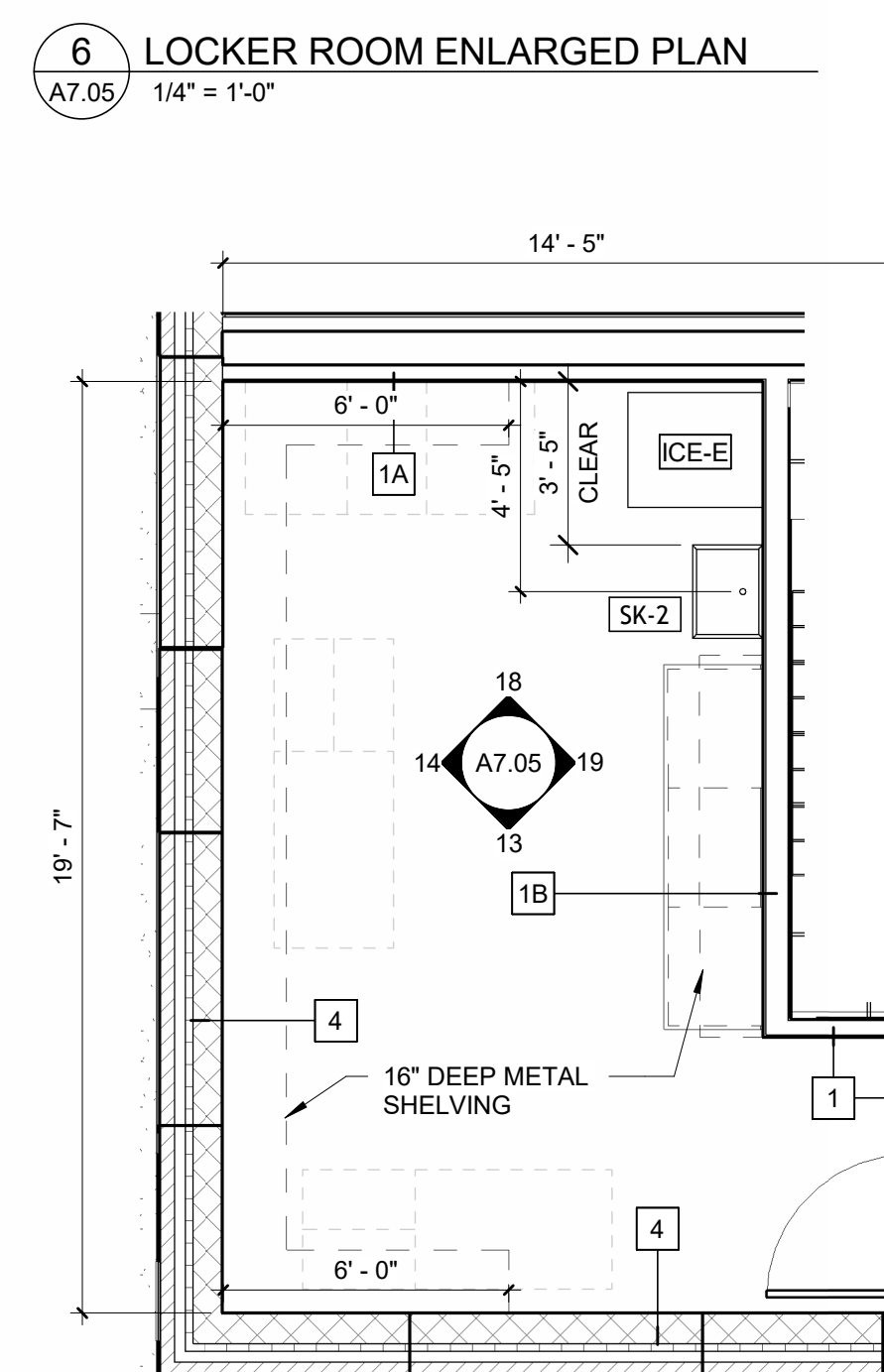
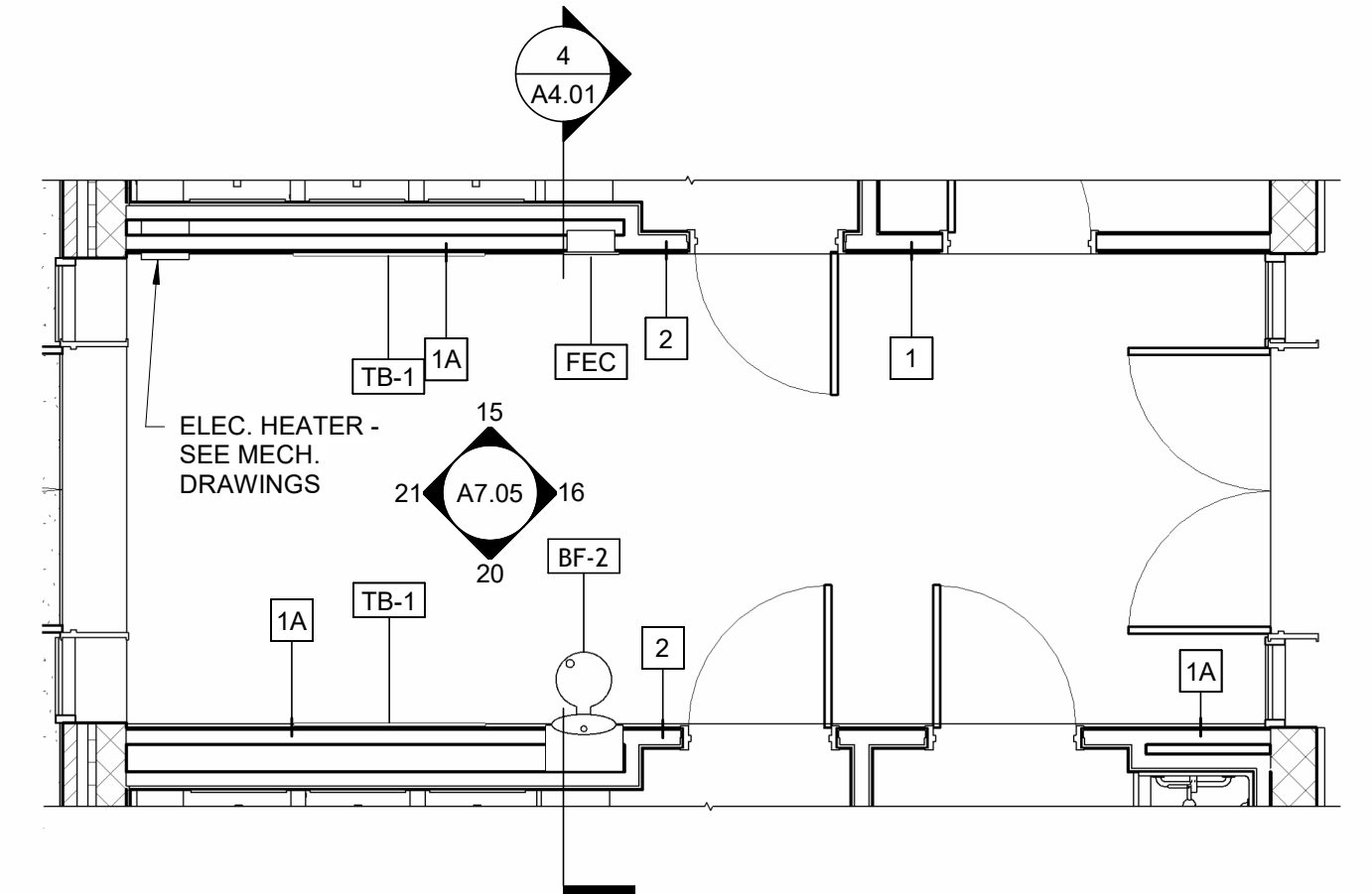
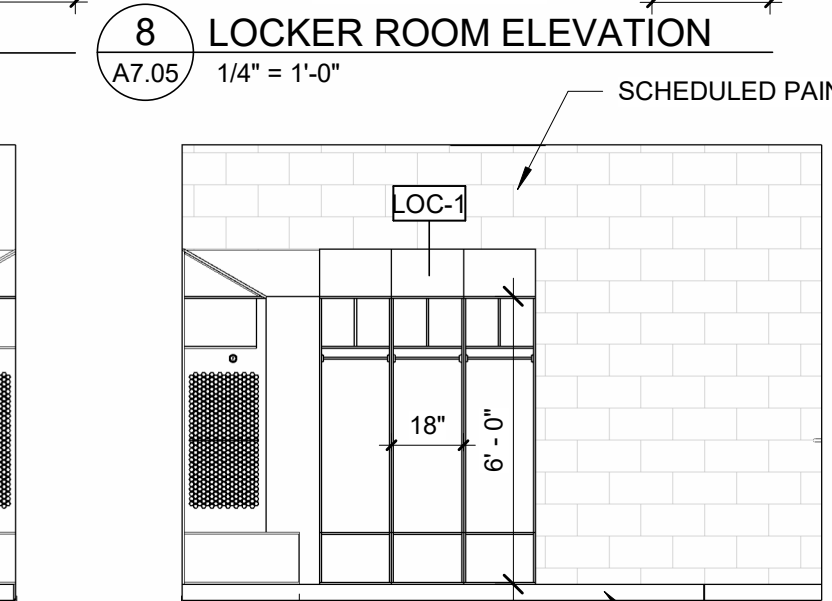
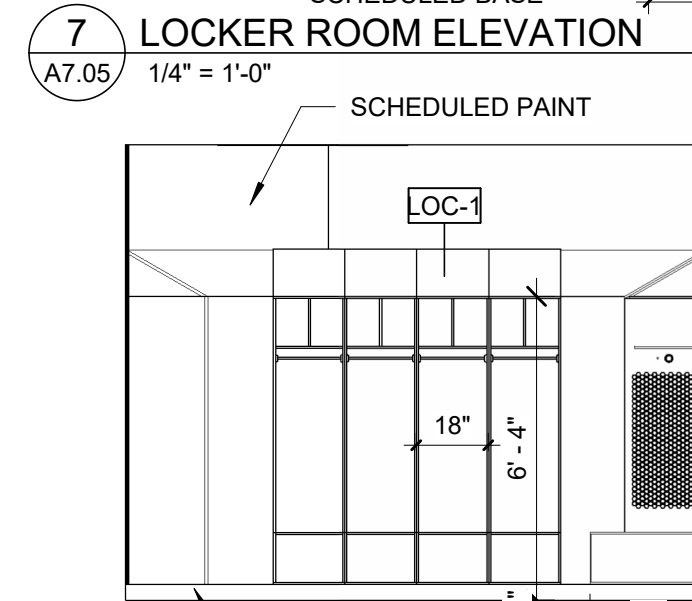
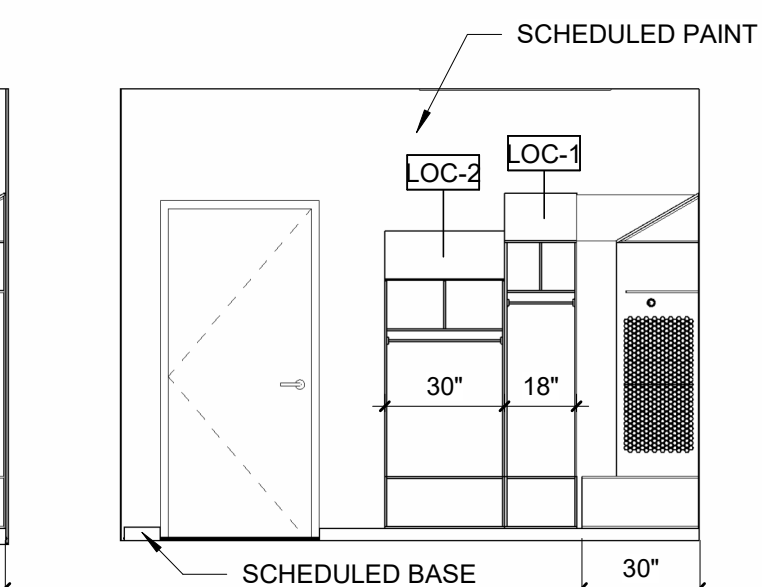
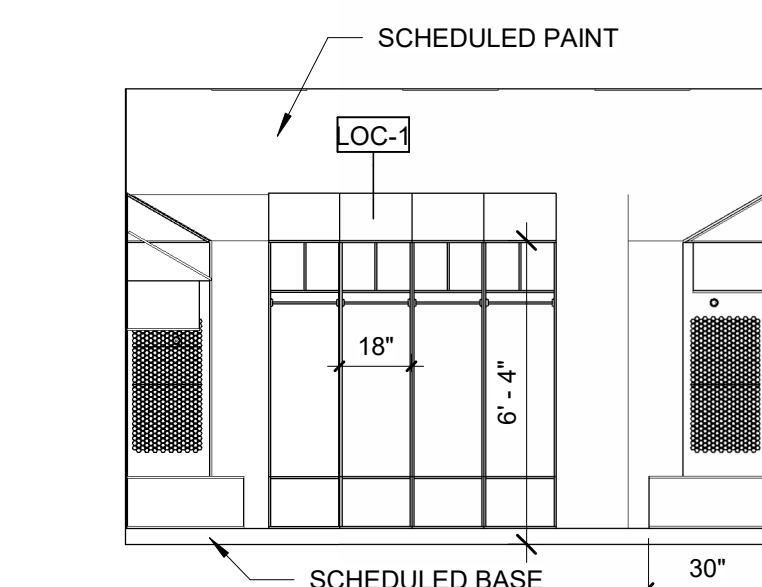
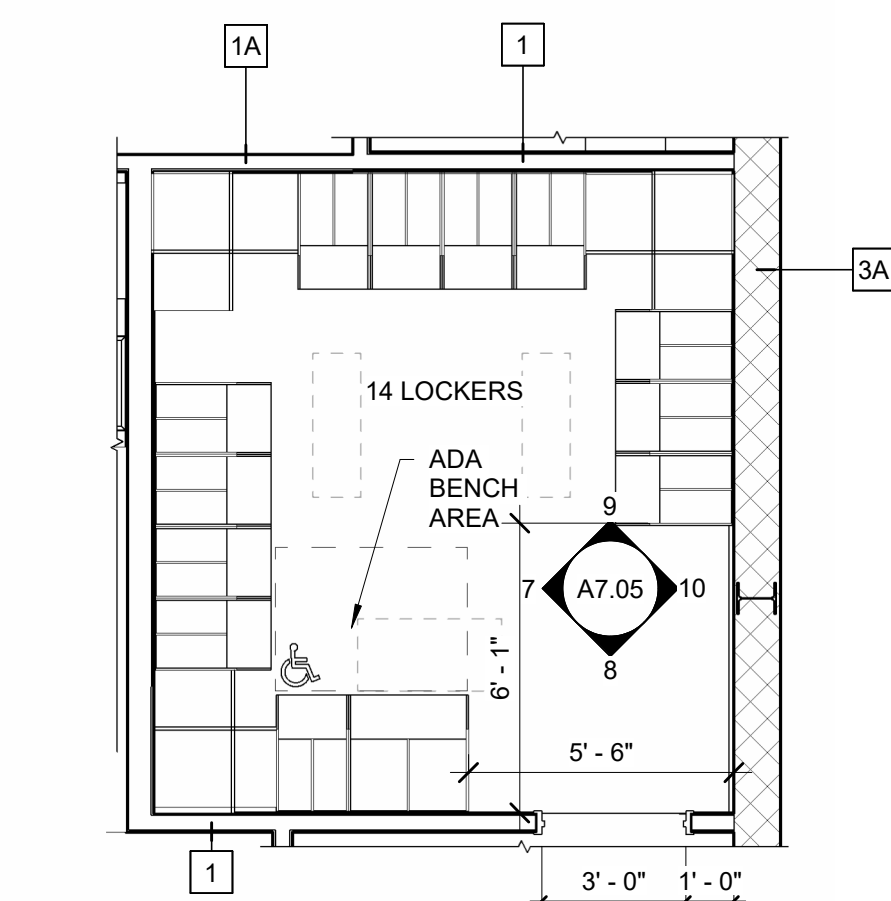
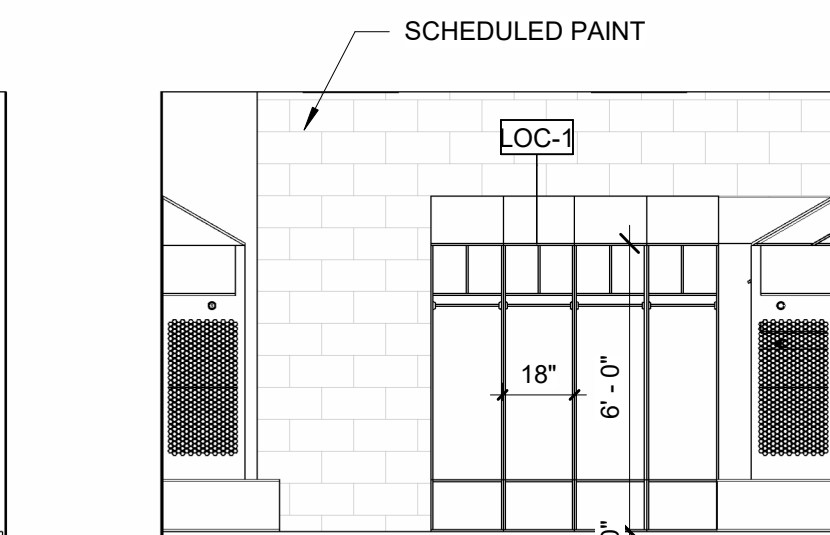
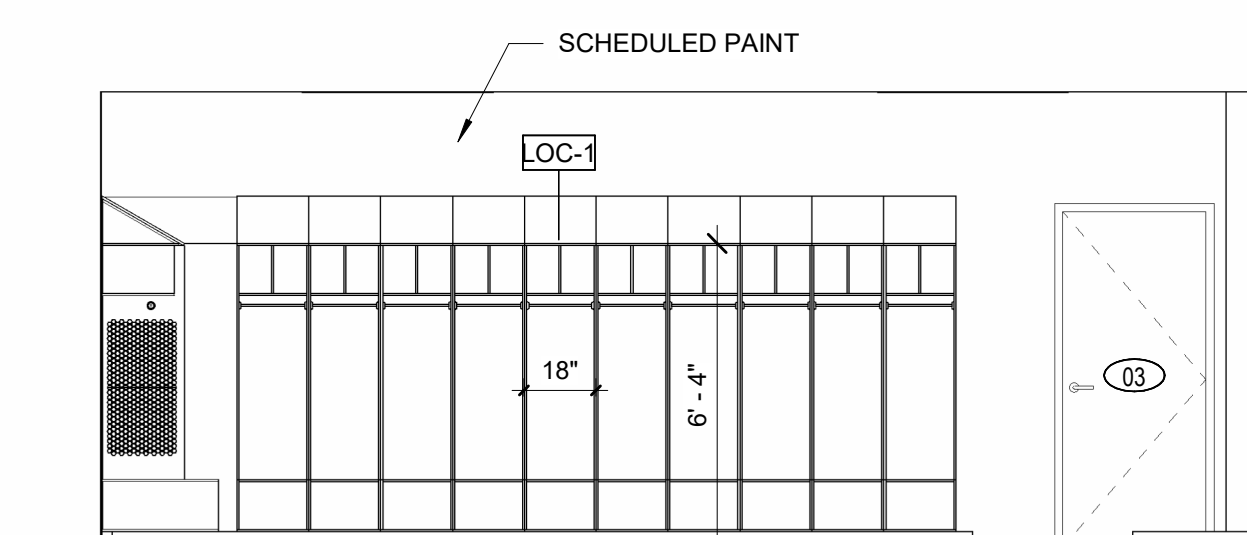
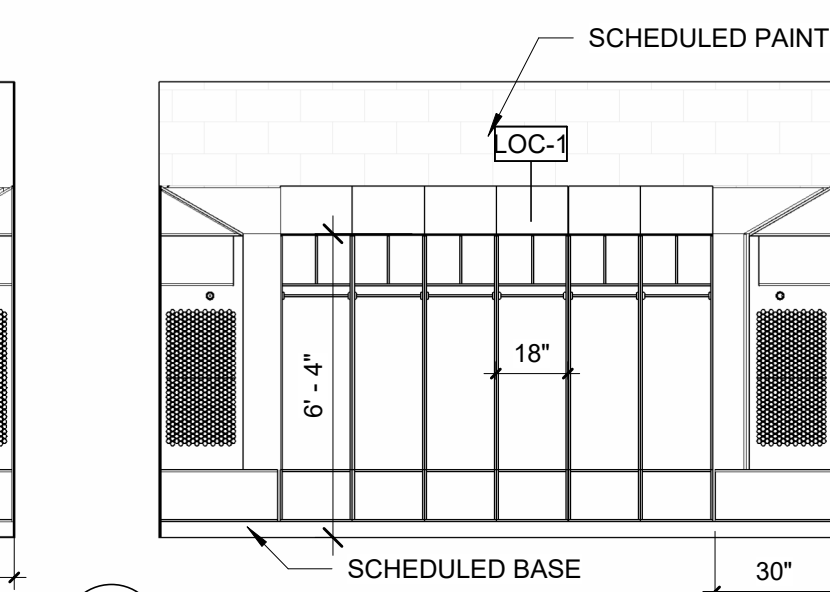
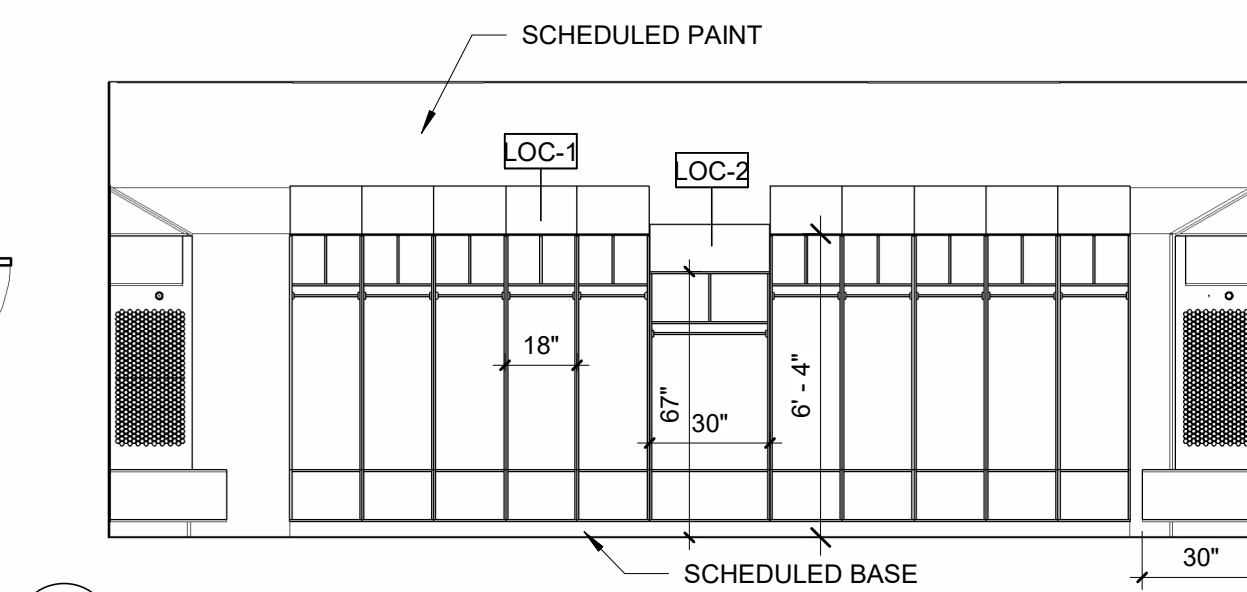
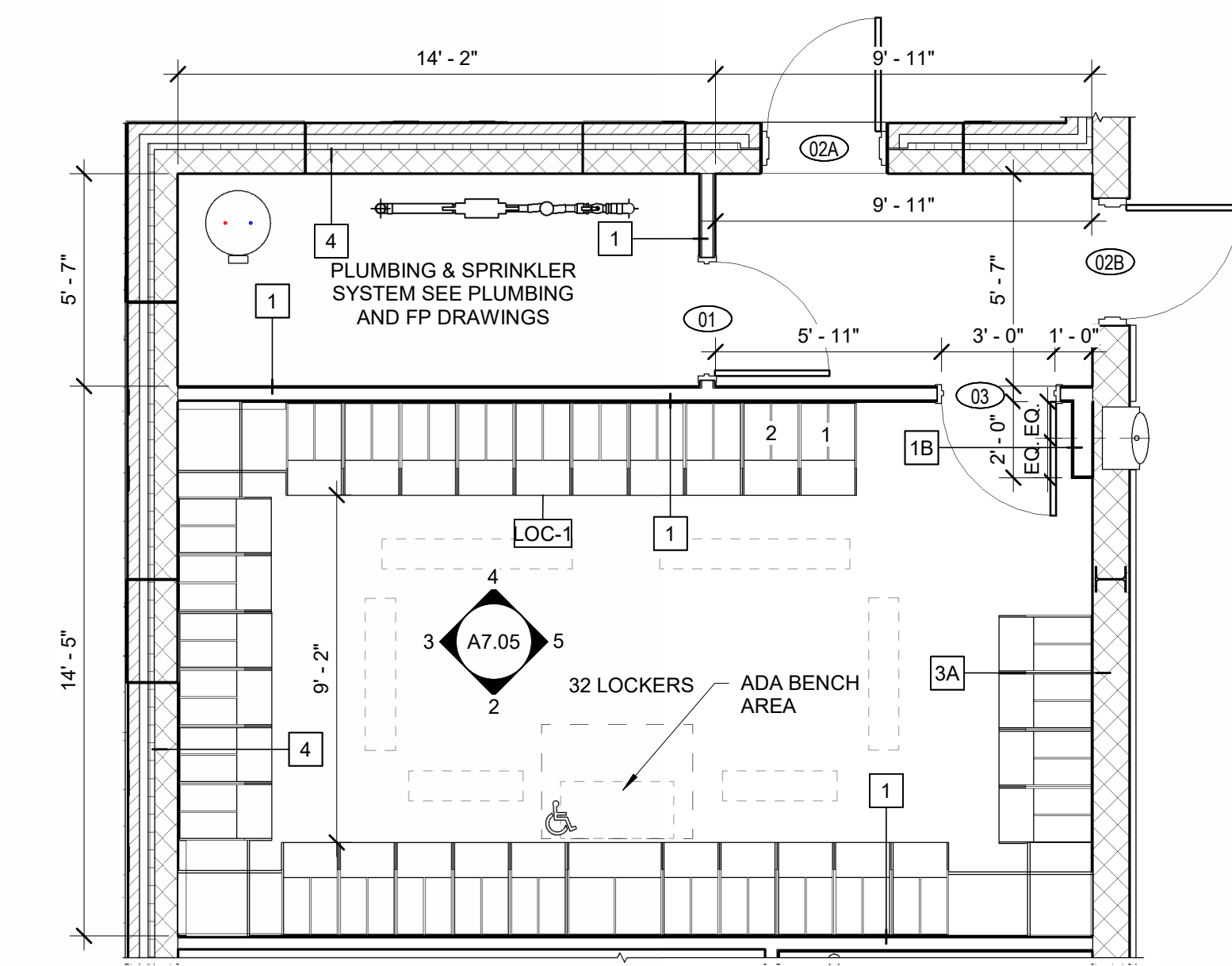
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

File No.

A7.04

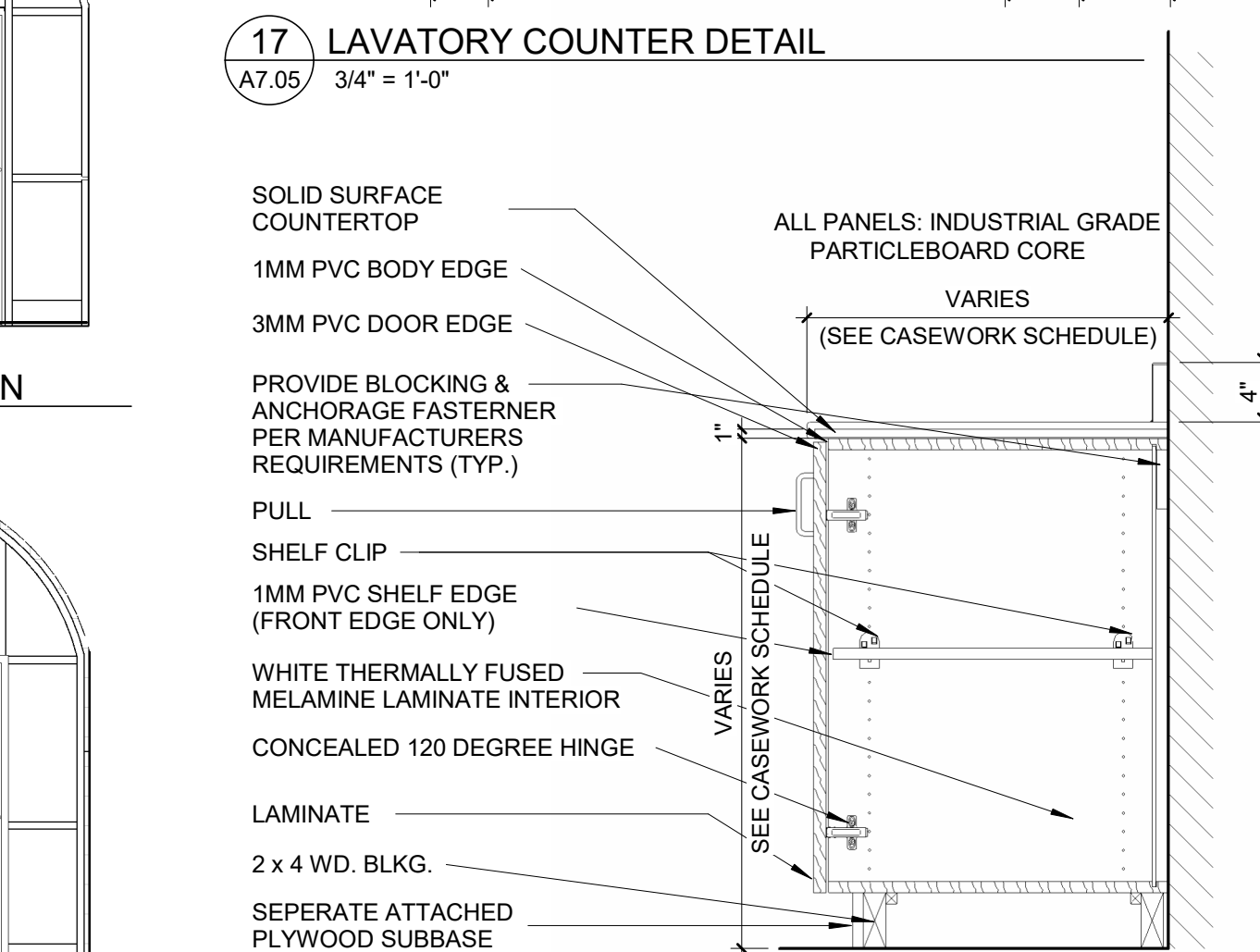
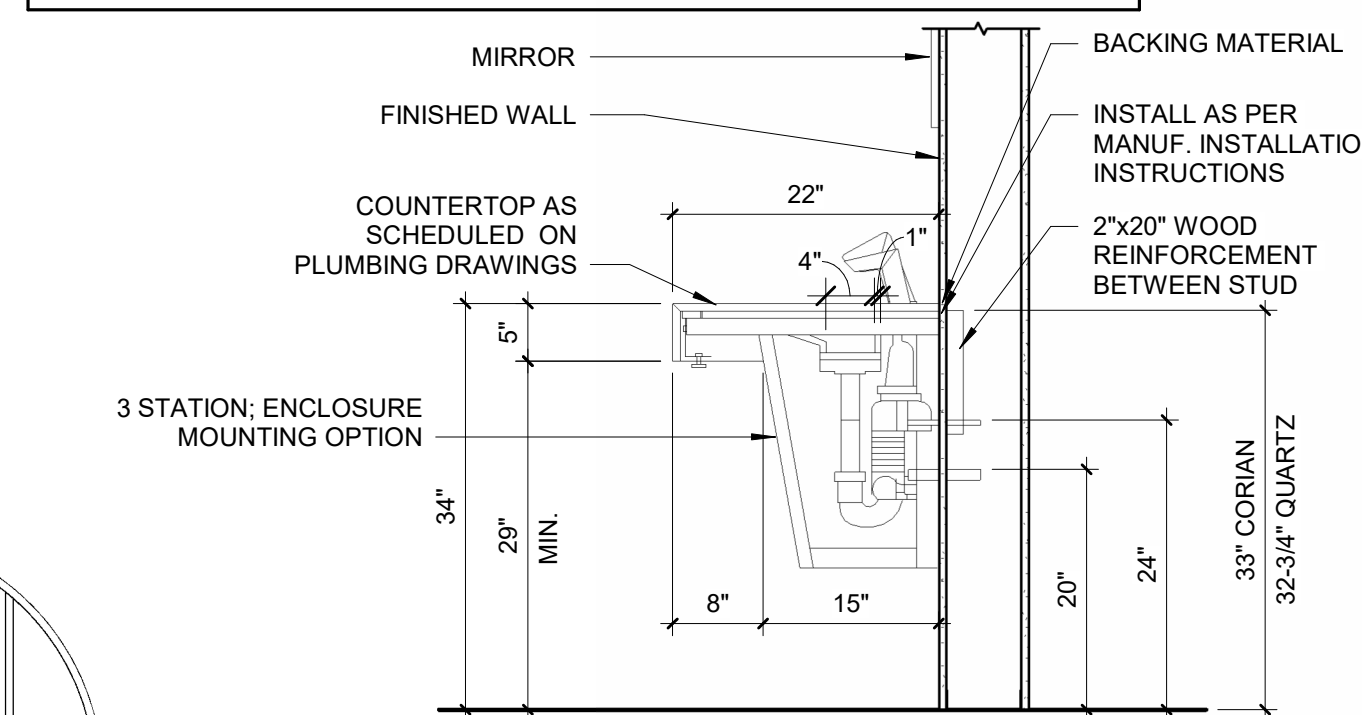
State Project #: 07-1900-X01-24-2000



SPECIALTY EQUIPMENT	
TYPE	DESCRIPTION
BB-1	CEILING SUSPENDED BACKSTOP (OFOI, CONTRACTOR TO PROVIDE POWER)
BL-1	MOTORIZED BLEACHERS (OFOI, CONTRACTOR TO PROVIDE POWER- SEE ELECTRICAL DRAWINGS)
DP-1	20" X 30" DEDICATED PLAQUE - SEE SPEC
FEC	FIRE EXTINGUISHER CABINET - SEE SPEC
GB-1	18" 24" X 42" ADA GRAB BARS W/ SAFETY GRIP FINISH (BOBRICK DB-6806.99 SERIES)
IOE-E	EXISTING ICE MAKERS (OFOI) CONTRACTOR TO PROVIDE HOOK-UP FOR INSTALLATION (SEE ELECTRICAL AND PLUMBING)
LOC-1	18" W TEAM LOCKERS, SLOPED TOP (OFOI, CONTRACTOR TO PROVIDE BLOCKING FOR INSTALLATION)
LOC-2	30" W ADA TEAM LOCKERS, SLOPED TOP, TOP SHELF TO BE NO MORE THAN 54" TALL (OFOI, CONTRACTOR TO PROVIDE BLOCKING FOR INSTALLATION)
M-1	WELDED FRAME STAINLESS STEEL MIRROR - 24"X30"
PT-1	SURFACE MOUNTED PAPER TOWEL ROLL
SB-1	SCORE BOARD (OFOI) CONTRACTOR TO PROVIDE POWER (SEE ELECTRICAL)
SN-1	SANITARY NAPKIN DISPOSAL (OFOI) - PROVIDE AT ALL WOMEN'S TOILETS
SP-1	SURFACE MOUNTED SOAP DISPENSER (OFCI)
TB-1	TACK BOARD 4' X 6'
TP-1	TOILET TISSUE DISPENSER (OFCI)
TS-1	TOILET PARTITIONS - SEE SPEC.
US-1	URINAL SCREEN - SEE SPEC.
W-1	SURFACE MOUNTED WASTE RECEPTACLE - TRIM LINE SERIES BY BOBRICK
W/D	WASHER & DRYER STACKED UNIT (OFOI) CONTRACTOR TO PROVIDE HOOKUP (SEE ELECTRICAL, PLUMBING & MECHANICAL DRAWINGS)
WP-1	24" W 6' H WALL PADS (OFOI)

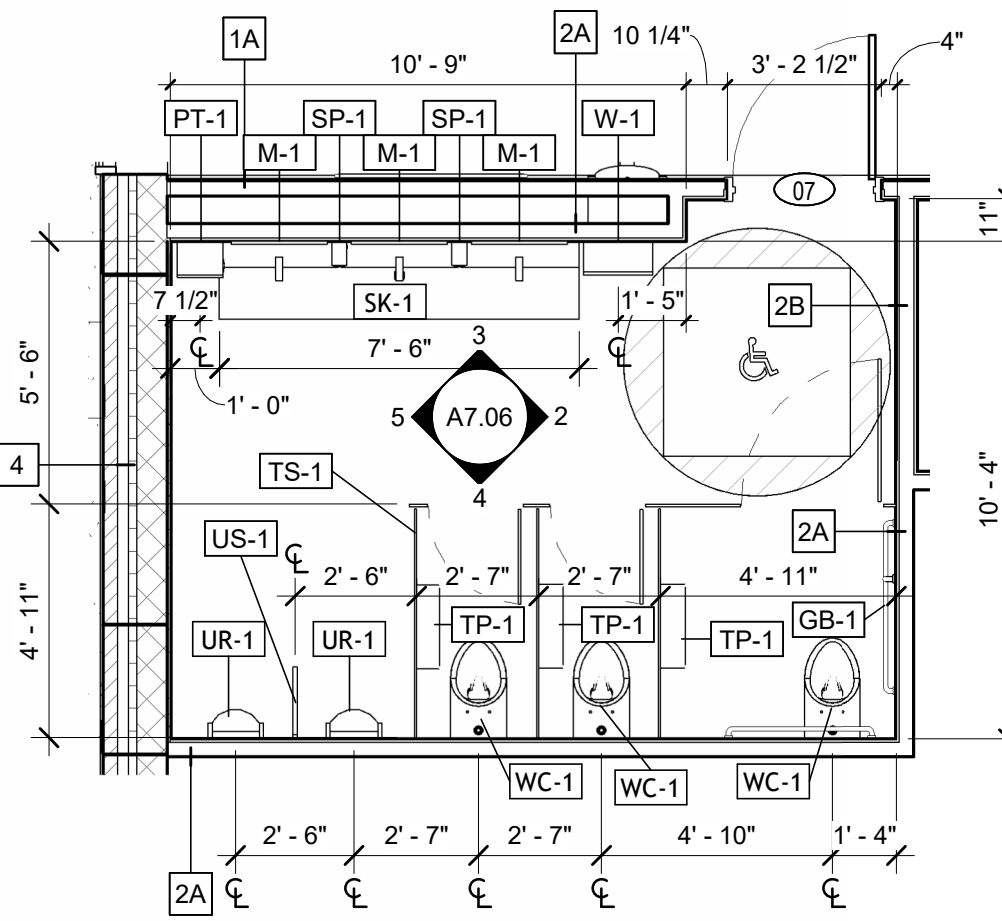
PLUMBING FIXTURES	
TYPE	DESCRIPTION
BF-1	IN WALL BOTTLE FILLING STATION, FILTERED, NON-REFRIDGERATED. - SEE PLUMBING DWGS
BF-2	IN WALL BOTTLE FILLING STATION W/ BUBBLER, FILTERED, NON-REFRIDGERATED. - SEE PLUMBING DWGS
BF-3	OUTDOOR BOTTLE FILLING STATION Q/ BUBBLER & DOG WATER STATION - SEE PLUMBING DWGS
FC-1	ADJUSTABLE HAND SHOWER - SEE PLUMBING DWGS
HB-1	HOSE BIB - SEE PLUMBING DWGS
SK-1	SLOAN THREE STATION GRADIENT SINK DSG-83000 - SEE PLUMBING DWGS
SK-2	UTILITY SINK - SEE PLUMBING DWGS
SW-1	ADA ROLL IN SHOWER, 62 7/16" X 31 1/4" BY FREEDOM SHOWERS OR EQUAL. PROVIDE SHOWER SEAT, GRAB BARS, & CURTAIN ROD BY FREEDOM SHOWERS OR EQUAL. PROVIDE PAINTED WATERPROOFING MEMBRANE ON CONCRETE FLOOR UNDER SHOWER PAN & 10' UP SHOWER WALL, WITH A SHEET WATERPROOFING MEMBRANE COATING IT TO SUPPORT CONTINUOUS WATERPROOFING. (SEE SPEC)
UR-1	URINAL - SEE PLUMBING DWGS
WC-1	WATER CLOSET - SEE PLUMBING DWGS

CASEWORK SCHEDULE				
MANUFACTURER	DESCRIPTION	WIDTH	HEIGHT	DEPTH
TMI SYSTEMS OR EQUAL	FILLER PANEL	29"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	30"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	30"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	31"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	33"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	34"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	35"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	35"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	36"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	37"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	37"	76"	20"
TMI SYSTEMS OR EQUAL	FILLER PANEL	45"	76"	20"
TMI SYSTEMS OR EQUAL	BASE CABINET	30"	33"	24"
TMI SYSTEMS OR EQUAL	BASE CABINET	30"	33"	24"
TMI SYSTEMS OR EQUAL	DRAWER CABINET	30"	33"	24"

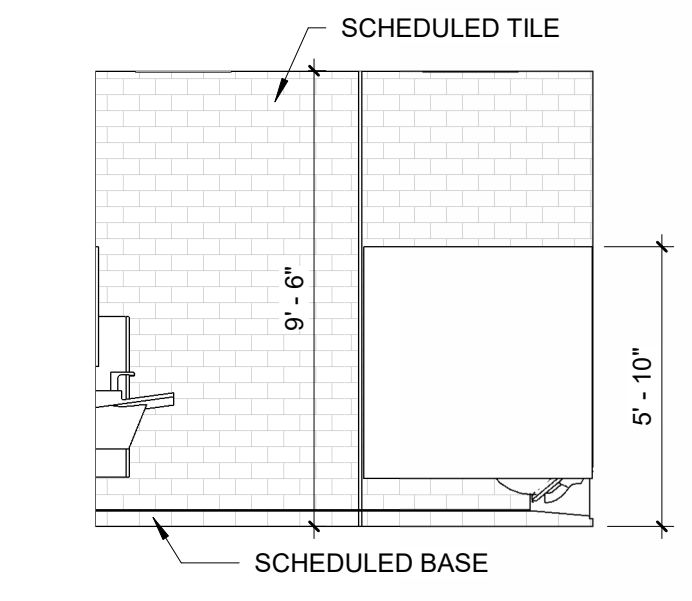


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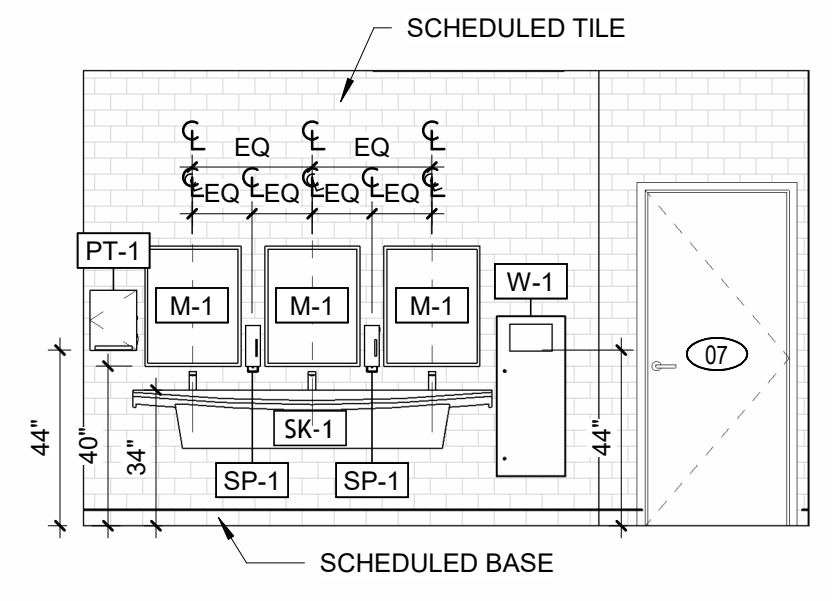
A B C D E F G H J K L M N O



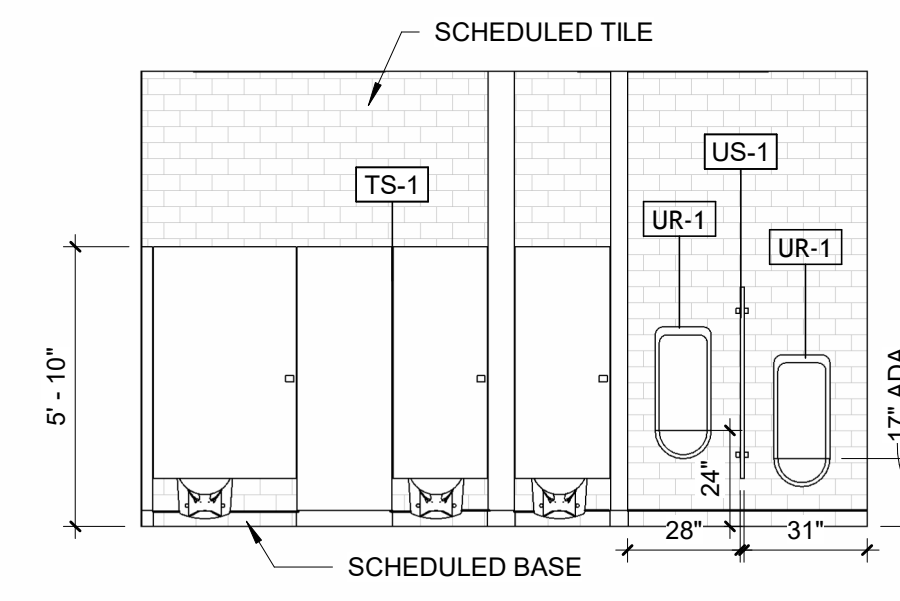
1 MEN'S TOILET ENLARGED PLAN
A7.06 1/4" = 1'-0"



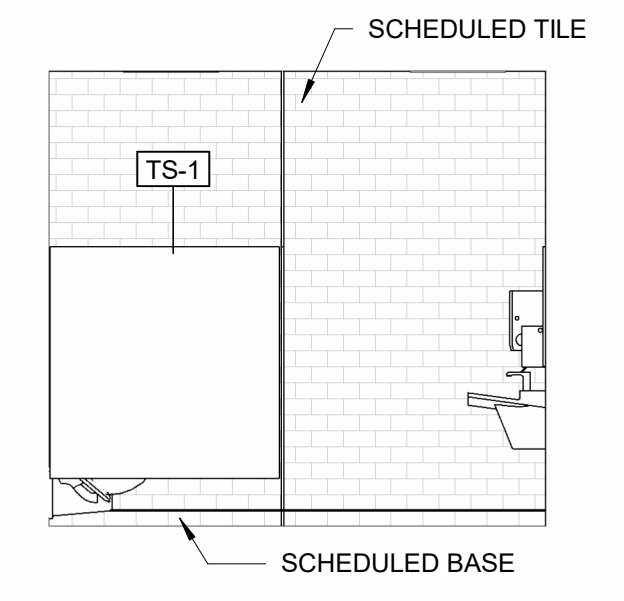
2 MEN'S TOILET ROOM (WEST)
A7.06 1/4" = 1'-0"



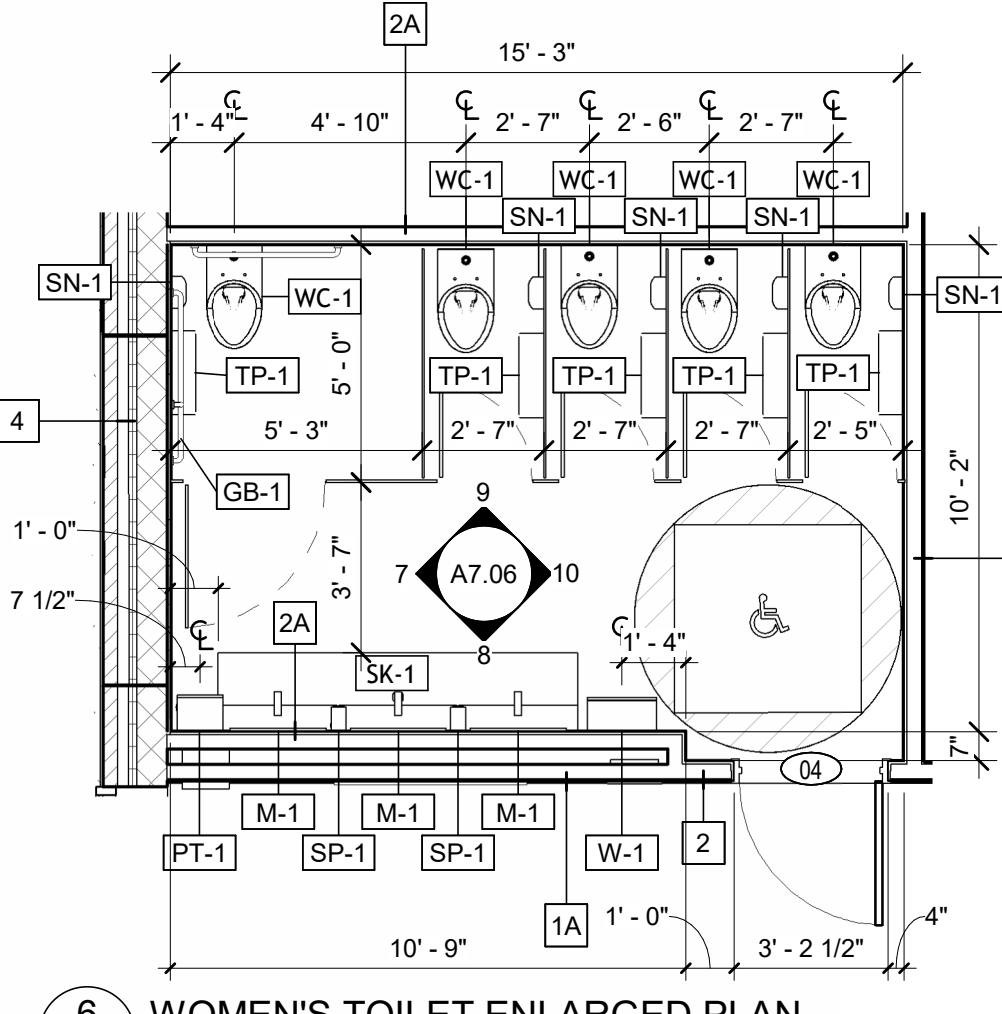
3 MEN'S TOILET ROOM (SOUTH)
A7.06 1/4" = 1'-0"



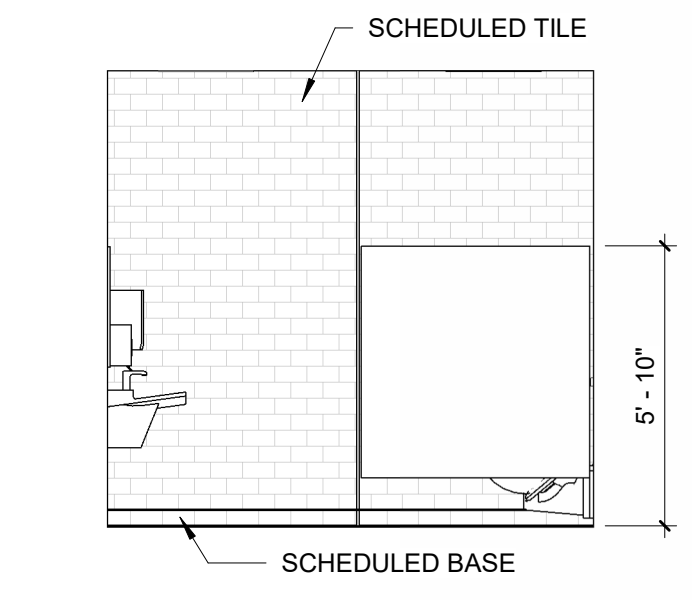
4 MEN'S TOILET ROOM (NORTH)
A7.06 1/4" = 1'-0"



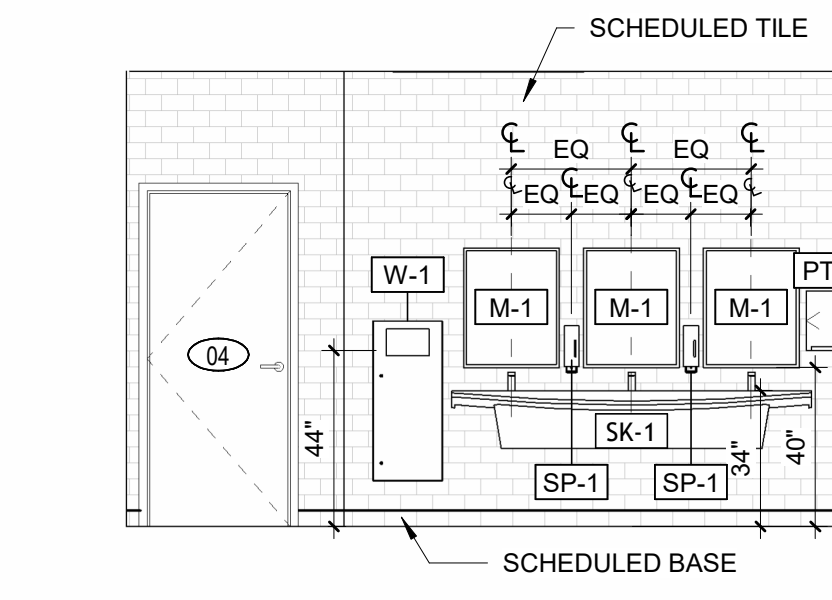
5 MEN'S TOILET ROOM (EAST)
A7.06 1/4" = 1'-0"



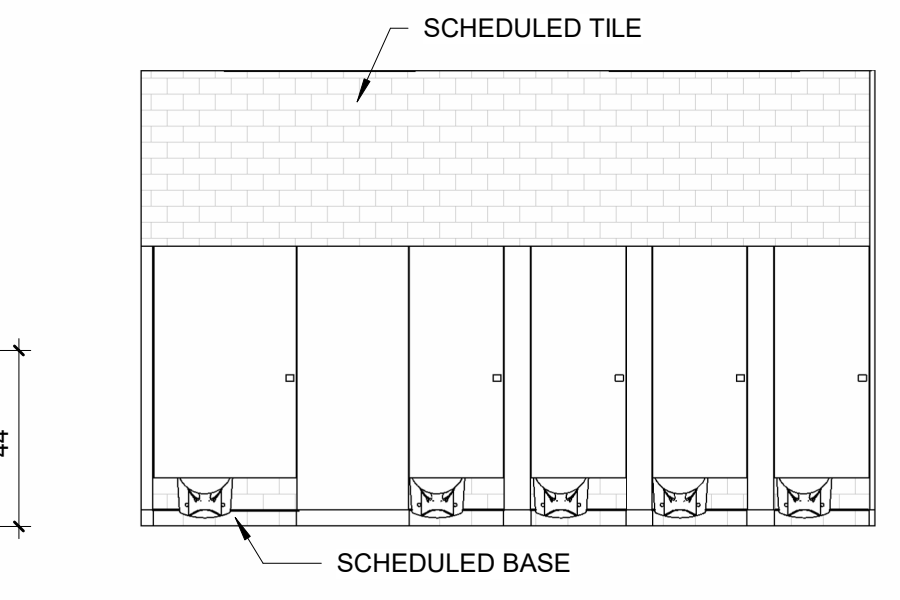
6 WOMEN'S TOILET ENLARGED PLAN
A7.06 1/4" = 1'-0"



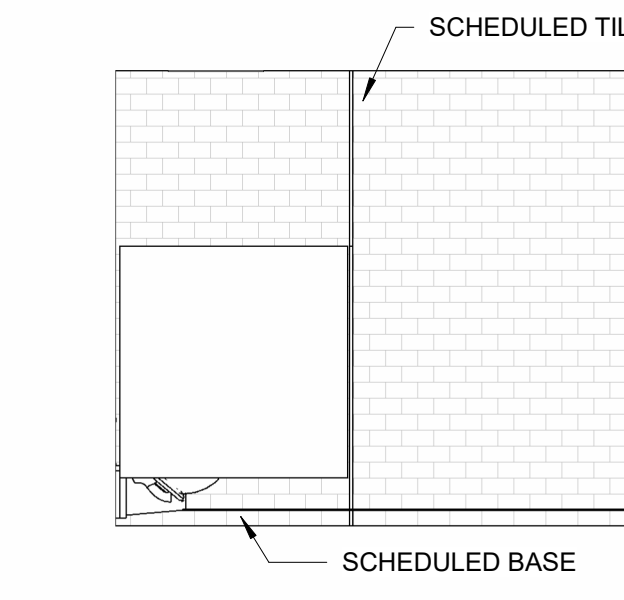
7 WOMEN'S TOILER ROOM (EAST)
A7.06 1/4" = 1'-0"



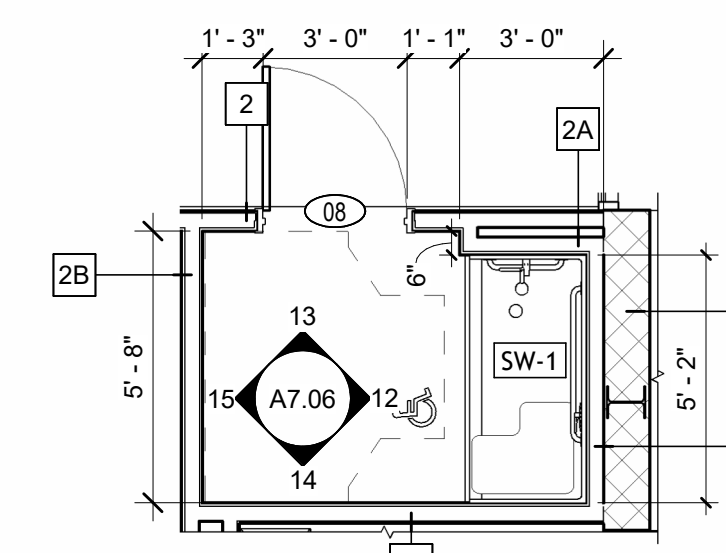
8 WOMEN'S TOILET ROOM (NORTH)
A7.06 1/4" = 1'-0"



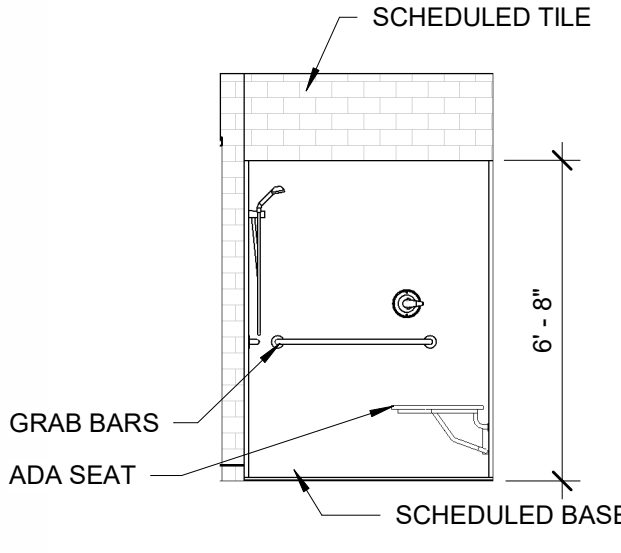
9 WOMEN'S TOILET ROOM (SOUTH)
A7.06 1/4" = 1'-0"



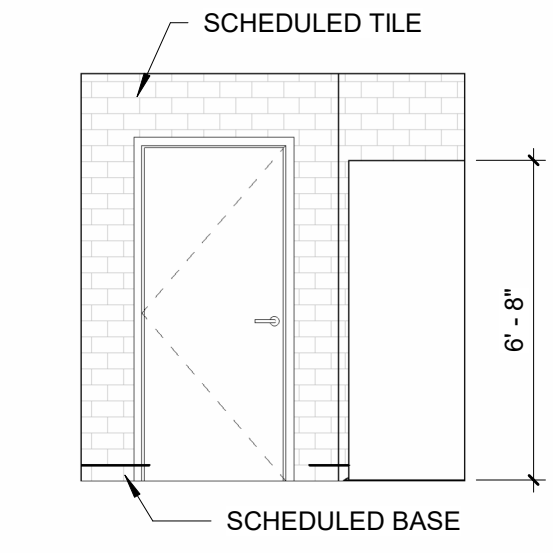
10 WOMEN'S TOILET ROOM (WEST)
A7.06 1/4" = 1'-0"



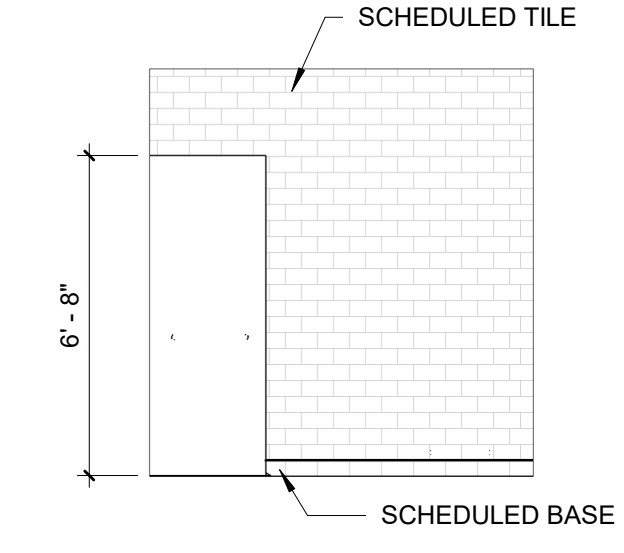
11 SHOWER ROOM ENLARGED PLAN
A7.06 1/4" = 1'-0"



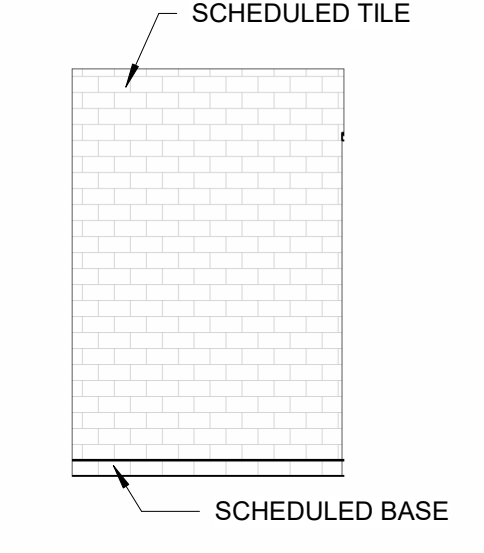
12 SHOWER (EAST)
A7.06 1/4" = 1'-0"



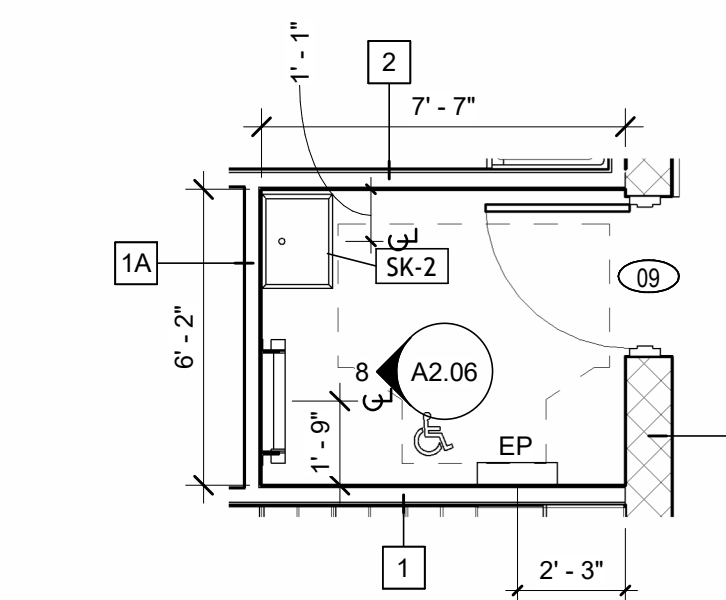
13 SHOWER (NORTH)
A7.06 1/4" = 1'-0"



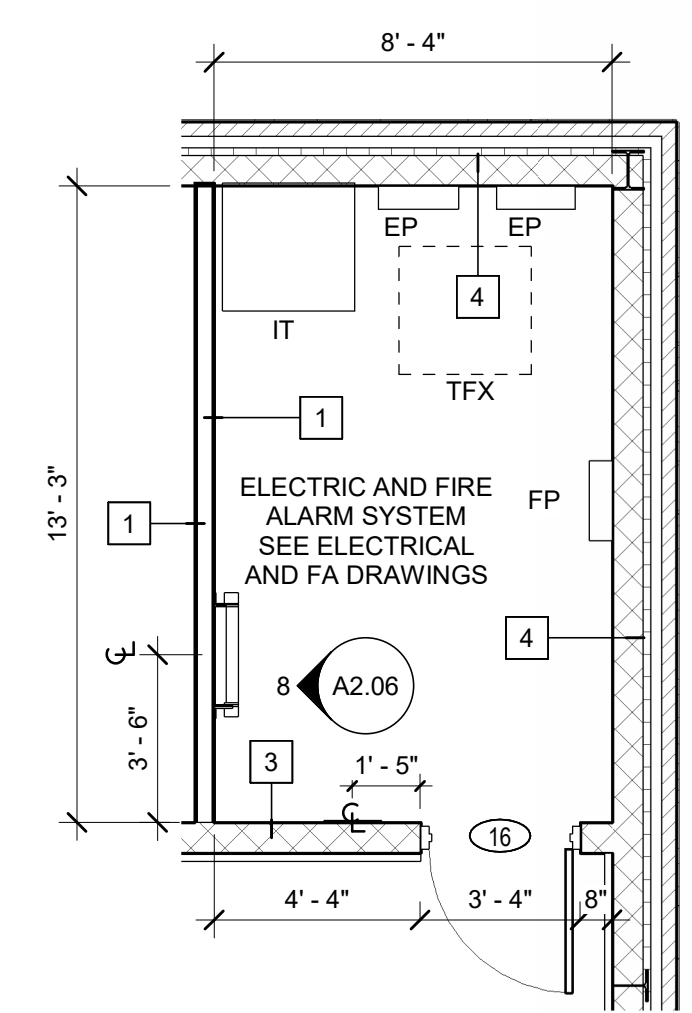
14 SHOWER (SOUTH)
A7.06 1/4" = 1'-0"



15 SHOWER (WEST)
A7.06 1/4" = 1'-0"



16 JANITORS ROOM ENLARGED PLAN
A7.06 1/4" = 1'-0"



17 ELECTRICAL ROOM ENLARGED PLAN
A7.06 1/4" = 1'-0"

SPECIALTY EQUIPMENT	
TYPE	DESCRIPTION
BB-1	CEILING SUSPENDED BACKSTOP (OFOI, CONTRACTOR TO PROVIDE POWER)
BL-1	MOTORIZED BLEACHERS (OFOI, CONTRACTOR TO PROVIDE POWER- SEE ELECTRICAL DRAWINGS)
DP-1	20" X 30" DEDICATED PLAQUE - SEE SPEC
FEC	FIRE EXTINGUISHER CABINET - SEE SPEC
GB-1	18", 24" & 42" ADA GRAB BARS W/ SAFETY GRIP FINISH (BOBRICK DB-6806.99 SERIES)
ICE-E	EXISTING ICE MAKER (OFOI) CONTRACTOR TO PROVIDE HOOK-UP FOR INSTALLATION (SEE ELECTRICAL AND PLUMBING)
LOC-1	18" W TEAM LOCKERS, SLOPED TOP (OFOI, CONTRACTOR TO PROVIDE BLOCKING FOR INSTALLATION)
LOC-2	30" W ADA TEAM LOCKERS, SLOPED TOP, TOP SHELF TO BE NO MORE THAN 54" TALL (OFOI, CONTRACTOR TO PROVIDE BLOCKING FOR INSTALLATION)
M-1	WELDED FRAME STAINLESS STEEL MIRROR - 24"X30"
PT-1	SURFACE MOUNTED PAPER TOWEL ROLL
SB-1	SCORE BOARD (OFOI) CONTRACTOR TO PROVIDE POWER (SEE ELECTRICAL)
SN-1	SANITARY NAPKIN DISPOSAL (OFOI) - PROVIDE AT ALL WOMEN'S TOILETS
SP-1	SURFACE MOUNTED SOAP DISPENSER (OFCI)
TB-1	TACK BOARD 4' X 6'
TP-1	TOILET TISSUE DISPENSER (OFCI)
TS-1	TOILET PARTITIONS - SEE SPEC.
US-1	URINAL SCREEN - SEE SPEC.
W-1	SURFACE MOUNTED WASTE RECEPTACLE - TRIM LINE SERIES BY BOBRICK
WD	WASHER & DRYER STACKED UNIT (OFOI) CONTRACTOR TO PROVIDE HOOKUP (SEE ELECTRICAL, PLUMBING & MECHANICAL DRAWINGS)
WP-1	24" W 6' H WALL PADS (OFOI)

PLUMBING FIXTURES (SEE PLUMBING DRAWINGS FOR MORE INFORMATION)	
TYPE	DESCRIPTION
BF-1	IN WALL BOTTLE FILLING STATION, FILTERED, NON-REFRIDGERATED. - SEE PLUMBING DWGS
BF-2	IN WALL BOTTLE FILLING STATION W/ BUBBLER, FILTERED, NON-REFRIDGERATED. - SEE PLUMBING DWGS
BF-3	OUTDOOR BOTTLE FILLING STATION Q/ BUBBLER & DOG WATER STATION - SEE PLUMBING DWGS
FC-1	ADJUSTIBLE HAND SHOWER - SEE PLUMBING DWGS
HB-1	HOSE BIB - SEE PLUMBING DWGS
SK-1	SLOAN THREE STATION GRADIENT SINK DSG-83000 - SEE PLUMBING DWGS
SK-2	UTILITY SINK - SEE PLUMBING DWGS
SW-1	ADA ROLL IN SHOWER, 62 7/16" X 31 1/4" BY FREEDOM SHOWERS OR EQUAL. PROVIDE SHOWER SEAT, GRAB BARS, & CURTAIN ROD BY FREEDOM SHOWERS OR EQUAL. PROVIDE PAINTED WATERPROOFING MEMBRANE ON CONCRETE FLOOR UNDER SHOWER PAN & 10" UP SHOWER WALL, WITH A SHEET WATERPROOFING MEMBRANE COATING IT TO SUPPORT CONTINUOUS WATERPROOFING. (SEE SPEC)
UR-1	URINAL - SEE PLUMBING DWGS
WC-1	WATER CLOSET - SEE PLUMBING DWGS

NJ Certificate of Authorization
Eng'r. Nos. 24GA27837800
Arch. Nos. 21AC00012400
Date 8/13/2026
Checked JMP
Drawn RS

JEFFREY POTTER, R.A.
Title REGISTERED ARCHITECT License No. NJ21A02015400

Date Description

Engineering,
Planning,
Architecture,
Surveying Inc.

LAN ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

ENLARGED PLANS AND ELEVATIONS @ TOILET ROOMS
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033

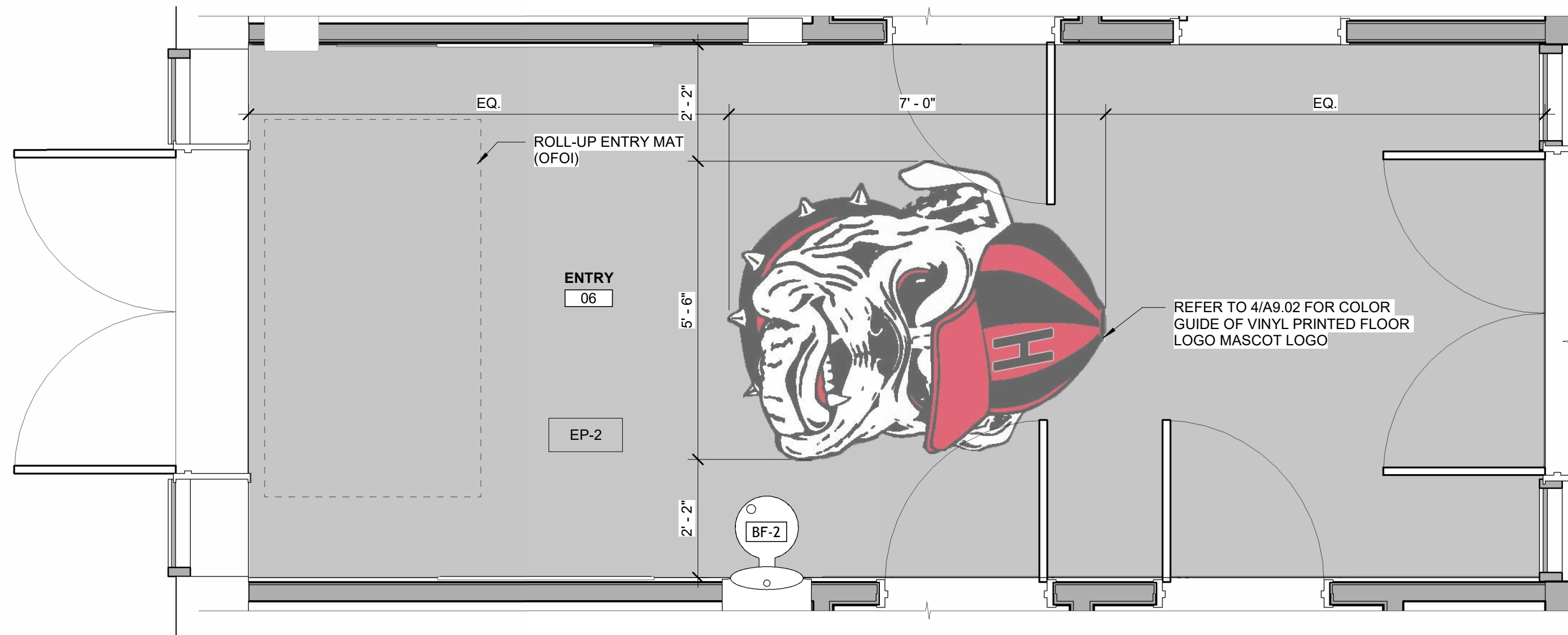
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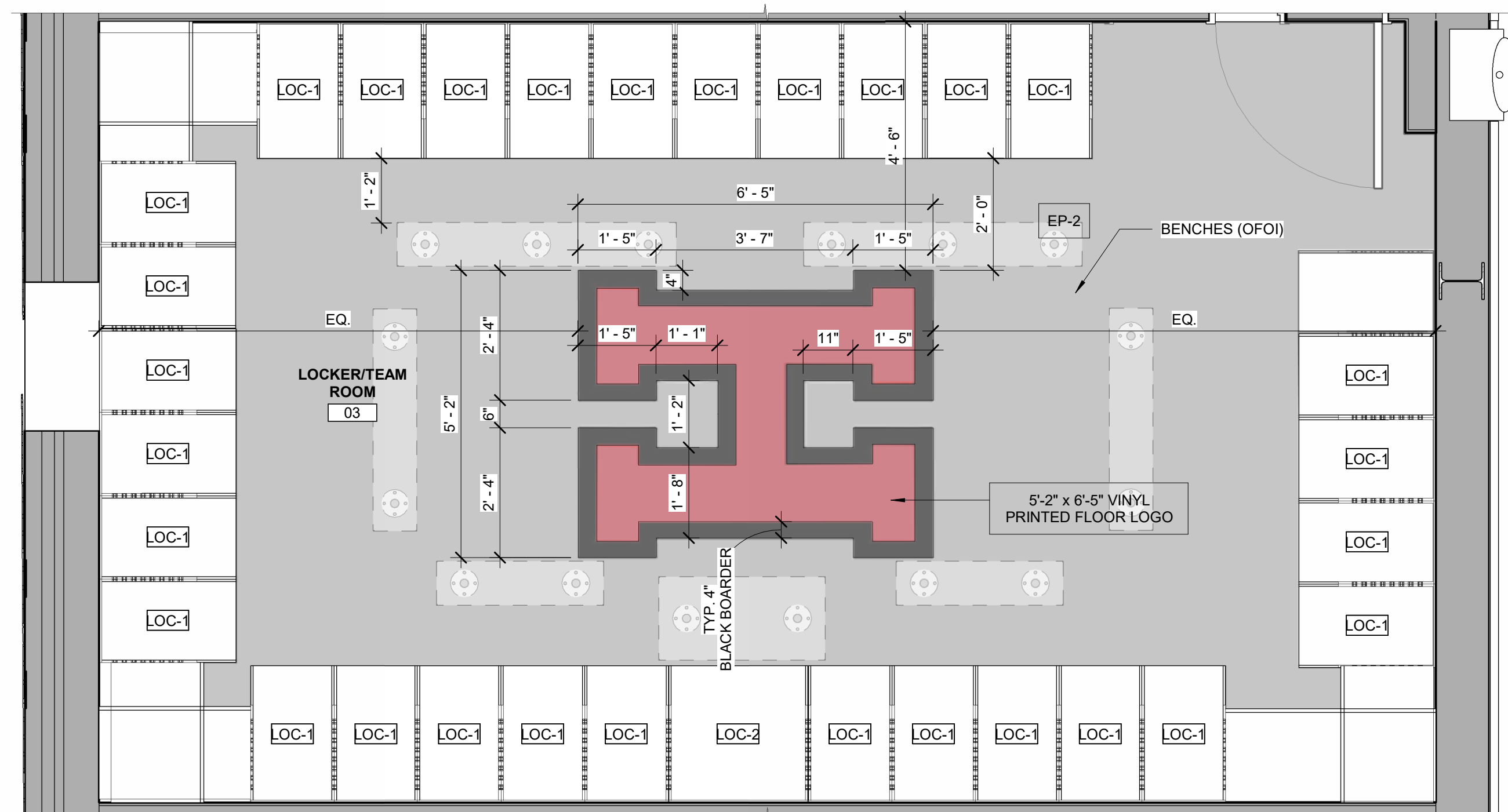
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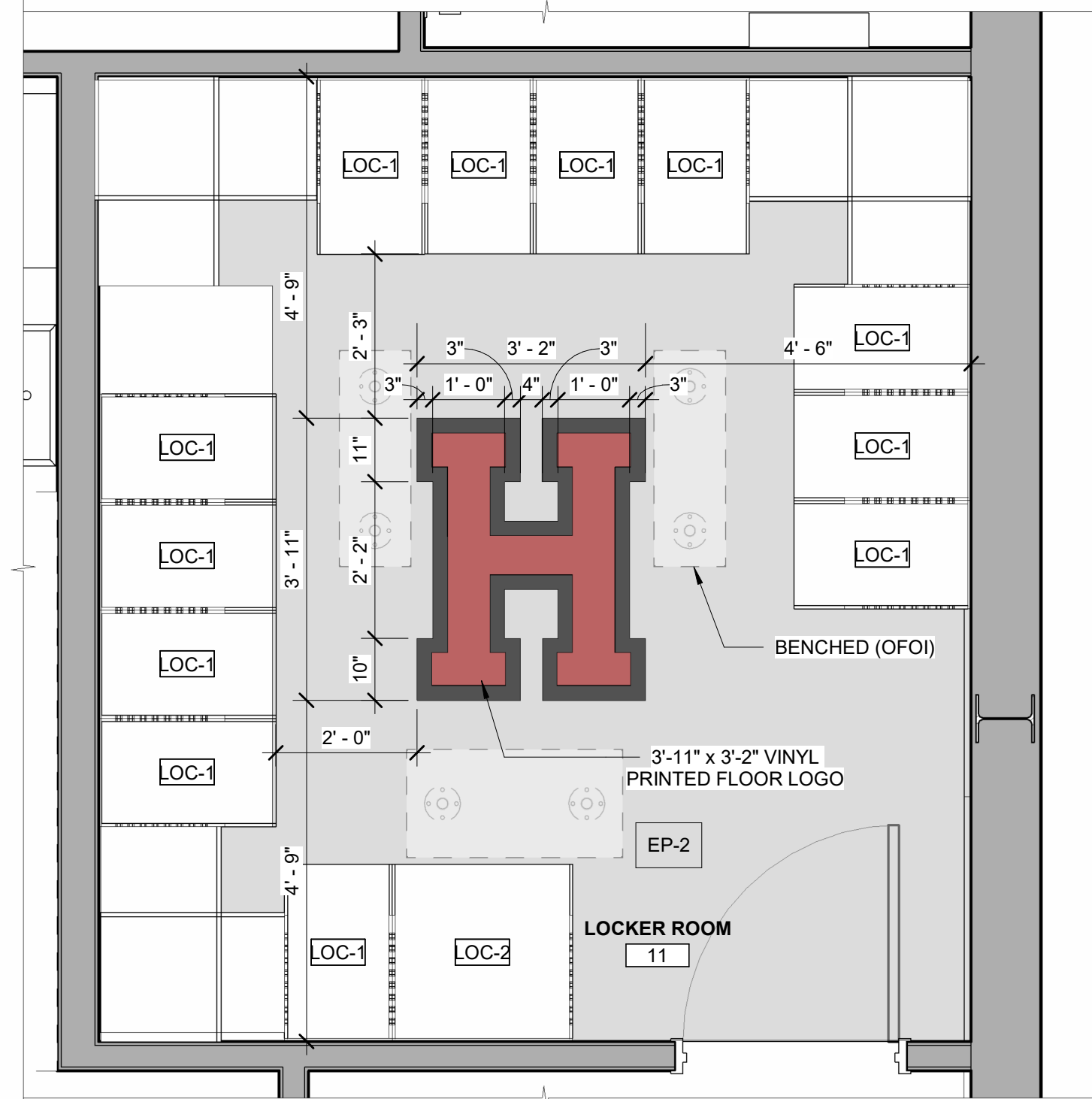
GENERAL									
ROOM #	NAME	FLOOR FINISH	WALL BASE FINISH	WALL FINISH	DOOR TRIM	LAMINATE CABINETRY	SOLID SURFACE COUNTERTOP	NOTES	
01	RISER	EP-2	RWB-1	PT-1	PT-2	--	--		
02	VESTIBULE	EP	RWB-2	PT-1	PT-2	--	--		
03	LOCKER/TEAM ROOM	EP-2	RWB-1	PT-1	PT-2	--	--	REFER TO 2/A9.01 ENLARGED PLAN FOR ADDITIONAL FLOOR FINISH DETAILS	
003	OFFICE	EP-2	RWB-1	PT-1	PT-2	--	--		
04	WOMEN'S	EP-2	CT-2	CT-1, 3	PT-2	--	--	STALL PARTITION TO BE 'ORANGE PEEL' BY SCRANTON PRODUCTS COLOR 'BURGUNDY'	
05	STORAGE	EP-2	RWB-1	PT-1	PT-2	--	--		
06	ENTRY	EP-1	RWB-1	PT-1	PT-2	--	--	REFER TO 1/A9.01 ENLARGED PLAN FOR ADDITIONAL FLOOR FINISH DETAILS	
07	MEN'S	EP-2	CT-3	CT-1, 2	PT-2	--	--	STALL PARTITION TO BE 'ORANGE PEEL' BY SCRANTON PRODUCTS COLOR 'SHALE'	
08	SHOWER	EP-2	CT-2	CT-1	PT-2	--	--		
09	JANITOR	EP-2	RWB-1	PT-1	PT-2	--	--		
10	ATHLETIC TRAINER	EP-2	RWB-1	PT-1	PT-2	PL-1	SS-1		
11	LOCKER ROOM	EP-2	RWB-1	PT-1	PT-2	--	--		
12	VESTIBULE	EP	RWB-2	PT-1	PT-2	--	--	REFER TO 3/A9.01 ENLARGED PLAN FOR ADDITIONAL FLOOR FINISH DETAILS	
13	GYMNASIUM	WD-1	RWB-3	PT-1	PT-2	--	--		
14	STORAGE	EP-2	RWB-1	PT-1	PT-2	--	--		
15	SCALE ROOM	EP-2	RWB-1	PT-1	PT-2	--	--		
16	ELEC.	EP-2	RWB-1	PT-1	PT-2	--	--		
17	WRESTLING ROOM	RS-1	RWB-2	PT-1	PT-2	--	--		
101	OFFICE 1	EP-2	RWB-1	PT-1	PT-2	--	--		
102	OFFICE 2	EP-2	RWB-1	PT-1	PT-2	--	--		



1 ENTRY ENLARGED FINISH PLAN
A9.01 1/2" = 1'-0"



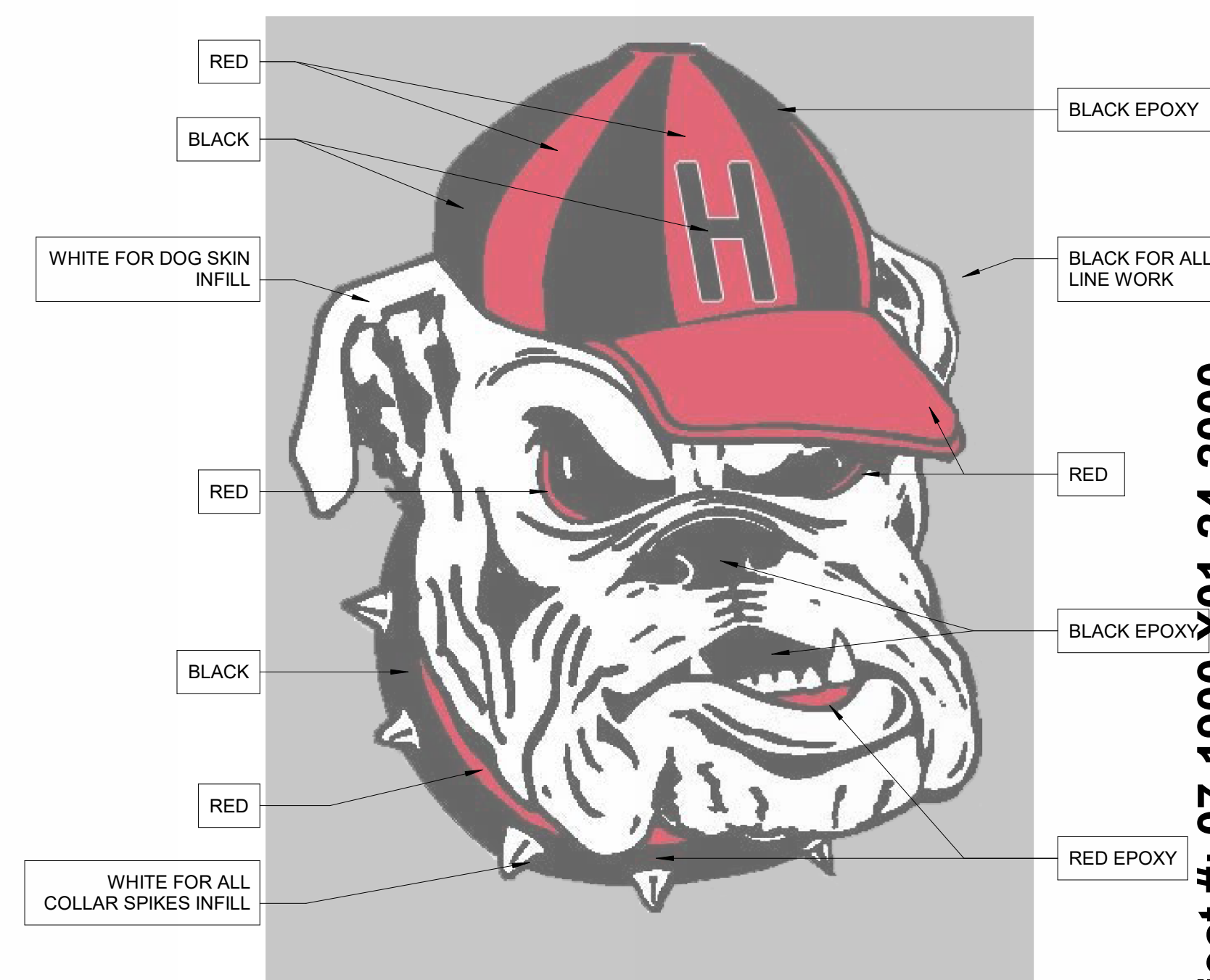
2 LOCKER ROOM 03 ENLARGED FINISH PLAN
A9.01 1/2" = 1'-0"



3 LOCKER ROOM 11 ENLARGED FINISH PLAN
A9.01 1/2" = 1'-0"

FINISH LEGEND		
ABBREV.	DESCRIPTION	NOTES
PT-X	PAINT (INTERIOR) -- "SHERWIN WILLIAMS" OR APP. EQ; ALL COLORS SELECTED BY ARCHITECT PT-1: RHINESTONE - SW 7656 PT-2: SHOW STOPPER - SW 7588	
SS-X	SOLID SURFACE - SEE SPEC. SS-1: 'SOLID SURFACE' BY WILSONART OR EQUAL; COLOR "BROOKLYN CONCRETE"	
PL-X	PLASTIC LAMINATE - SEE SPEC. PL-1: 'STANDARD LAMINATE' BY WILSONART OR EQUAL; COLOR "EMPIRE MAHOGANY"	
EP-X	EPOXY FLOOR - SEE SPEC. EP-1: 'RESUFLOOR DECO FLAKE BC' BY SHERWIN WILLIAMS OR EQUAL; 1/4" FLAKE SIZE; COLOR "CUSTOM FORMULA" EP-2: 'RESUFLOOR DECO FLAKE BC' BY SHERWIN WILLIAMS OR EQUAL; 1/4" FLAKE SIZE; COLOR "CUSTOM FORMULA"	CUSTOM POLYMER FLAKE FORMULA: EP-1: CHERRY BOMB 60%, WHITE 37%, BLACK 3% EP-2: ONLINE 50%, WHITE 30%, BLACK 18%, TOMATO 2%
WD-X	REAL WOOD FINISH - SEE SPEC. WD-1: 'ALLIANCE' BY CONNOR SPORTS OR EQUAL; COLOR "MAPLE"	
RS-X	RUBBER SPORTS FLOOR - SEE SPEC. RS-1: 'SPORT M PERFORMANCE' BY GERFLOR OR EQUAL; COLOR "WOOD GREY"	
RWB-X	RUBBER WALL BASE - SEE SPEC. RWB-1: 'JOHNSONITE TRADITIONAL WALL BASE' BY TARKETT OR EQUAL; 4"; COLOR "BLACK B" RWB-2: 'JOHNSONITE TRADITIONAL WALL BASE' BY TARKETT OR EQUAL; 4"; COLOR "FLAME" RWB-3: 'JOHNSONITE VENT COVE' BY TARKETT OR EQUAL; 4"; COLOR "BLACK"	
CT-X	CERAMIC TILE - SEE SPEC. CT-1: 'COLOR WHEEL CLASSIC' BY DAL TILE OR EQUAL; 3"x6", 5/16"; COLOR "ARCTIC WHITE" CT-2: 'COLOR WHEEL CLASSIC' BY DAL TILE OR EQUAL; 3"x6", 5/16"; COLOR "SUEDE GRAY" CT-3: 'COLOR WHEEL CLASSIC' BY DAL TILE OR EQUAL; 3"x6", 5/16"; COLOR "CURRANT"	

NOTES:
- SOLID EPOXY COLORS ONLY, TO BE USED FOR MASCOT LOGO
- EXP-2 CUSTOM MIX, REFER TO MATERIAL FINISH SCHEDULE, TO SURROUND LOGO



4 MASCOT COLOR GUIDE
A9.01 1" = 1'-0"

GENERAL STRUCTURAL NOTES

GENERAL NOTES

- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS INDICATED IN THE STRUCTURAL NOTES FOR THIS JOB. FAILURE OF THE CONTRACTOR TO READ THE STRUCTURAL NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR REQUIREMENTS.
- FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
- ALL CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL CODES INCLUDING ALL OSHA REGULATIONS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL PEOPLE WHO MAY BE ON OR NEAR THE WORK AREA, BY MAINTAINING A SAFE WORK AREA, SAFE WORKING CONDITIONS, AND LIMITING ACCESS TO THE WORK AREA.
- WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK AND SHALL BE PRESENT AT THE WORK SITE AT ALL TIMES DURING CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE ADEQUATE PERSONNEL FOR THE PROPER COORDINATION AND EXPEDITING OF THE WORK.
- DO NOT SCALE THESE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION FOR PURPOSES OF CONSTRUCTION.
- DETAILS LABELED "TYPICAL DETAILS" OR DETAILS ON "TYPICAL DETAILS" SHEETS APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS AND DIMENSIONS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.
- VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE BEFORE ORDERING ANY MATERIALS AND BEGINNING ANY WORK. SURVEY AND ESTABLISH THE EXISTING BUILDING DIMENSIONS WHERE NEW CONSTRUCTION ADJUTS EXISTING BUILDINGS. THIS FIELD SURVEY SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO THE FOLLOWING: DIMENSIONS OF EXISTING BUILDING FACE INCLUDING ALL FENESTRATIONS, PROJECTIONS, ETC., PLUMBNESS OF WALLS, FLOOR AND ROOF ELEVATIONS, DIMENSIONS OF EXISTING BUILDING FOUNDATIONS AND THE EXISTING BOTTOM OF FOOTING ELEVATION, AND ALL OTHER PERTINENT DIMENSIONS. THIS FIELD SURVEY SHALL BE FOR THE USE BY ALL CONTRACTORS AND SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR RECORD ONLY.
- IF THE EXISTING CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, NOTIFY THE ENGINEER IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH PROPOSED MODIFICATION TO THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. THE FINAL INSTALLATION SHALL BE DONE AS REQUIRED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
- VERIFY ALL OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE DIMENSIONS AND LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS AS WELL AS DRAWINGS OF OTHER TRADES PRIOR TO CONSTRUCTION.
- ENSURE PROPER STORAGE OF MATERIAL IS MAINTAINED SO AS NOT TO CAUSE OVERLOADING OF THE EXISTING OR NEW STRUCTURE DURING PERFORMANCE OF THIS WORK. STORE ALL HEAVY MATERIALS ON THE GROUND AND ONLY MOVE TO ELEVATED FLOOR AND ROOF WHEN REQUIRED FOR INSTALLATION.
- ALL NEW OPENINGS IN EXISTING CONCRETE FLOOR SLABS SHALL BE MADE USING A CONCRETE SAW, WHERE CUTS BECOME ROUGH THEY SHALL BE MADE CLEAN WITH EPOXY CONCRETE TO THE REQUIRED OPENING SIZE.
- COORDINATE ALL RELATED TRADE ACTIVITY REGARDING SHUT DOWNS, RE-ROUTING, TEMPORARY INSTALLATION, ETC. NECESSARY FOR THIS INSTALLATION WITH OWNER'S REPRESENTATIVE.
- ESTABLISH SPECIFIC MEANS AND METHODS FOR INSTALLATION AND COORDINATE THE WORK FOR ALL CONTRACTORS AND COMPLY WITH OWNER'S REQUIREMENTS.
- COORDINATE WITH EQUIPMENT MANUFACTURERS FOR EXACT SIZE, LOCATION, ETC. OF PITS, CAST-IN ITEMS, WALLS, ETC. BEFORE LAYOUT, ORDERING ANY MATERIAL OR COMMENCEMENT OF ANY WORK.

FOUNDATION NOTES

- ALL FOOTINGS SHALL BEAR ON UNDISTURBED STRATUM HAVING A MINIMUM ALLOWABLE BEARING PRESSURE OF 2000 PSF, VERIFIED IN THE FIELD BY A GEOTECHNICAL ENGINEER, HIRED BY THE OWNER, UNLESS OTHERWISE NOTED.
- SPECIAL INSPECTIONS FOR EXISTING SOIL CONDITIONS AND LOAD BEARING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CURRENT BUILDING CODE.
- BOTTOM OF ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER BEFORE PLACING ANY CONCRETE. APPROVAL IN WRITING MUST INDICATE SOIL IS ADEQUATE TO SAFELY SUSTAIN A SOIL NET BEARING PRESSURE OF 2000 PSF.
- UNLESS DICTATED BY THE GEOTECHNICAL ENGINEER, ALL ENGINEERED FILL BENEATH FLOOR SLABS, FOUNDATIONS AND PAVEMENT SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE COMPACTION SHOULD BE ACCOMPLISHED BY PLACING THE FILL IN ABOUT 8 INCH THICK (OR LESS) LOOSE LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY.
- ALL COLUMN FOOTINGS SHALL BE CENTERED ON THE COLUMN CENTERLINES, UNLESS OTHERWISE NOTED.
- PROVIDE ALL DEWATERING AS REQUIRED DURING THE EXCAVATION AND CONSTRUCTION OF THE FOUNDATION WORK INCLUDING PREVENTIVE MEASURES RELATED TO EXCAVATION STABILITY, SEE SPECIFICATIONS.
- STANDARD PROCEDURES FOR FROST PROTECTION OF FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER CONSTRUCTION. BACKFILLING OF EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF THREE FEET (3'-0") BELOW EXTERIOR FINISH GRADE.
- BOTTOM OF NEW FOOTING ELEVATION INDICATED THUS (..) IN PLAN. BOTTOM OF EXISTING FOOTING ELEVATION INDICATED THUS (..) IN PLAN. SEE FOUNDATION NOTES ON PLANS.
- BOTTOM OF FOOTING GIVEN IN THE FOUNDATION PLAN MARKED THUS (..) ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD IN ACCORDANCE WITH NOTES ABOVE.
- ALL EXISTING UNDERGROUND UTILITIES IN THE AREA OF THE NEW CONSTRUCTION SHALL BE RELOCATED UNLESS OTHERWISE NOTED ON THE DRAWINGS BEFORE ANY NEW FOUNDATION WORK IS STARTED. EXISTING SITE ELEMENTS AND UTILITIES, MANHOLES, CATCH BASINS, ETC. ADJACENT TO NEW CONSTRUCTION EXCAVATIONS SHALL BE PROTECTED BY SHEETING AND/OR SHORING. THIS PROTECTION SHALL BE PROVIDED AND DESIGNED BY THE CONTRACTOR AND HIS REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECTS JURISDICTION WHO SHALL BE TOTALLY RESPONSIBLE FOR ITS DESIGN AND INSTALLATION.
- COORDINATE ALL FOUNDATION WORK WITH ALL UNDERGROUND UTILITIES. ALL NEW UNDERGROUND UTILITIES OR PIPES SHALL NOT BE PLACED BELOW SPREAD FOOTINGS, IF ANY SUCH CONDITION OCCURS, NOTIFY THE ENGINEER AND DROP THE BOTTOM OF FOOTING TO CLEAR THE PIPE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING NEW FOUNDATION CONSTRUCTION ACTIVITIES ADJACENT TO EXISTING BUILDING FOUNDATIONS THAT ARE TO REMAIN (EVEN IF LOCATED ON AN ADJACENT PROPERTY). SINCE DRAWINGS FOR EXISTING CONSTRUCTION ARE NOT ALWAYS AVAILABLE DURING DESIGN, CERTAIN ASSUMPTIONS MAY BE MADE REGARDING EXISTING FOUNDATIONS BASED ON TYPICAL CONSTRUCTION PRACTICES. THESE ASSUMPTIONS TYPICALLY REQUIRE CONTRACTOR FIELD VERIFICATION PRIOR TO CONSTRUCTION OF THE NEW STRUCTURES. IN ANY EVENT, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY IF EXISTING SITE OR FOUNDATION CONDITIONS DIFFER FROM THOSE SHOWN OR ASSUMED ON THE CONTRACT DRAWINGS. IN NO INSTANCE SHALL EXISTING BUILDING FOUNDATIONS BE UNDERMINED TO INSTALL NEW FOUNDATIONS. IF NEW BOTTOM OF FOOTING ELEVATIONS ARE LOWER THAN ADJACENT EXISTING BOTTOM OF FOOTING ELEVATIONS THE ENGINEER MUST BE NOTIFIED IMMEDIATELY TO PROVIDE ADDITIONAL DETAILS AS REQUIRED TO CONSTRUCT THE NEW FOUNDATIONS AT THE LOWER LEVEL.
- BACKFILL AGAINST WALLS SHALL FOLLOW THE CRITERIA NOTED. AS A MINIMUM, WALLS MUST HAVE REACHED THEIR 28 DAY DESIGN STRENGTH OR BE IN PLACE 14 DAYS, WHICHEVER IS LONGER. FOR CONCRETE FOUNDATION WALLS, BACKFILL SHALL BE PLACED EVENLY ON BOTH SIDES TO THE FLOOR SUBGRADE LEVEL. EQUIPMENT USED TO COMPACT THE BACKFILL WILL BE SUCH AS TO LIMIT PRESSURES ON THE WALLS AND THE DESIGN VALUES ARE TO BE REVIEWED AND ACCEPTED BY THE OWNER'S GEOTECHNICAL ENGINEER.
- PROVIDE STANDARD STEEL PIPE SLEEVES FOR ALL PIPES PASSING THROUGH NEW MASONRY WALLS AND NEATLY CORED HOLES A MINIMUM OF ONE PIPE SIZE LARGER THAN NEW PIPE THROUGH EXISTING MASONRY WALLS WHERE SHOWN ON THE DRAWINGS. COORDINATE CORED HOLES WITH SEALANT, ETC., REQUIREMENTS WITH RELATED SPECIFICATIONS. SEE TYPICAL DETAIL ON DRAWING SS.1.
- WHERE THE EXCAVATION FOR SERVICE LINE TRENCHES IS LOWER THAN AND CLOSER THAN A 1.5H:1V SLOPE TO THE BOTTOM OF A NEW OR EXISTING COLUMN OR WALL FOOTING, BACKFILL THE EXCAVATION WITH LEAN MIX CONCRETE. TOP OF FILL TO BE ON A 1.5H:1V SLOPE FROM BOTTOM OF ADJACENT FOUNDATIONS.
- THE CONTRACTOR SHALL READ THE SOILS REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SITE PREPARATION AND EXCAVATION WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH SOIL AND FOUNDATION ENGINEERING REPORT PREPARED BY UNDERWOOD ENGINEERING COMPANY (PROJECT No. 5499-20340-1) DATED JANUARY 30, 2026.
- FOR ADDITIONAL REQUIREMENTS SEE TYPICAL DETAILS AND THE SPECIFICATIONS.

SPECIAL INSPECTION NOTES

- SPECIAL INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR PER IBC SECTIONS 1704 AND 1705 OR A QUALITY ASSURANCE INSPECTOR PER AISI 308.16 OR CHAPTER N.
- A SPECIAL INSPECTIONS ADMINISTRATOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER OR RECORD AND ARCHITECT OF RECORD. IT IS REQUIRED THAT THE PERSON ADMINISTERING THE SPECIAL INSPECTIONS PROGRAM BE A PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF BUILDINGS. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, STRUCTURAL ENGINEER OF RECORD AND ARCHITECT OF RECORD. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.
- THE SPECIAL INSPECTIONS ADMINISTRATOR AND TESTING AGENT SHALL BE ENGAGED BY THE OWNER OR THE OWNERS AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHO'S WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL, PRIOR TO COMMENCING WORK.
- THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
- A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED.
- STRUCTURAL OBSERVATIONS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL INSPECTIONS LISTED IN SECTION 1705 OF THE IBC.
- THE LIST BELOW PROVIDES THE MINIMUM REQUIRED SPECIAL INSPECTIONS & TESTING, SEE THE IBC REFERENCED SECTIONS BELOW AND THE TABLES ON \$0.20 FOR MORE INFORMATION:

- STEEL CONSTRUCTION IBC SECTION 1705.2

- CONCRETE CONSTRUCTION IBC SECTION 1705.3

- MASONRY CONSTRUCTION IBC SECTION 1705.4

- SOILS IBC SECTION 1705.6

- FABRICATED ITEMS IBC SECTION 1705.10

- OPEN WEB JOISTS & JOIST GIRDERS IBC SECTION 1705.2.3

- COLD-FORMED STEEL DECK IBC SECTION 1705.2.2

MASONRY WALL NOTES

- ALL CONCRETE MASONRY SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE LATEST ACI MASONRY CODE (ACI 530/ASCE 5/TMS 402) AND SPECIFICATIONS (ACI 530.1/ASCE 6/TMS 602).
- ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 (NORMAL WEIGHT), PROVIDE TWO-CELL UNITS ERECTED IN A RUNNING BOND PATTERN, UNLESS NOTED OTHERWISE ON PLANS.
- ALL CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI.
- ALL MORTAR SHALL BE PORTLAND CEMENT/LIME CONFORMING TO ASTM C270 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI AT 28 DAYS. USE TYPE M MORTAR BELOW GRADE AND TYPE S MORTAR ABOVE GRADE.
- GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI WITH A SLUMP OF 8 TO 11 INCHES. DO NOT USE ADMIXTURES THAT CONTAIN CHLORIDES. GROUT SHALL BE USED AS FILLING FOR VERTICAL CAVITIES THAT CONTAIN REINFORCING, BOND BEAMS, LINTELS AND HOLLOW MASONRY UNITS DESIGNATED AS SOLID GROUTED IN THE DRAWINGS.
- CONSOLIDATE GROUT IN CMU CORES WITH A LOW VELOCITY MECHANICAL VIBRATOR (3/4" HEAD). MORTAR SHALL NOT BE USED TO FILL CELLS.
- COMPRESSIVE STRENGTH (f'm) OF ALL CONCRETE UNIT MASONRY ASSEMBLIES SHALL BE 1,900 PSI AT 28 DAYS.
- MASONRY WALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60 IN GROUTED CELLS. MASONRY WALL DOWELS / REINFORCING BARS WELDED TO STRUCTURAL STEEL SHALL BE ASTM A706 GRADE 60.
- VERTICAL REINFORCING BARS SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY GALVANIZED BAR POSITIONERS SPACED AT INTERVALS NOT TO EXCEED 112 BAR DIAMETERS. PROVIDE A MINIMUM OF TWO POSITIONERS PER INDIVIDUAL REINFORCING BAR.
- HORIZONTAL JOINT REINFORCEMENT SHALL BE FACTORY FABRICATED FROM STEEL WIRE CONFORMING TO ASTM A 82M 82M, WELDED CONSTRUCTION. WIRE SHALL HAVE ZINC COATING CONFORMING TO ASTM A 153/A 153M, CLASS B-2. ALL WIRES SHALL BE A MINIMUM OF 9 GAUGE. REINFORCEMENT SHALL BE LADDER TYPE DESIGN, HAVING ONE LONGITUDINAL WIRE IN THE MORTAR BED OF EACH FACE SHELL FOR HOLLOW UNITS AND ONE WIRE FOR SOLID UNITS. JOINT REINFORCEMENT SHALL BE SPACED VERTICALLY AT 16 INCHES ON CENTER OR AS INDICATED. REINFORCEMENT SHALL BE LAPPED NOT LESS THAN 6 INCHES. LAP SPUCE VERTICAL REINFORCING BARS 48 TIMES THE DIAMETER OF THE BAR.
- HORIZONTAL REINFORCING SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS JOINT REINFORCEMENT SHALL BE PROVIDED WITH FACTORY FORMED CORNERS AND INTERSECTIONS.
- PROVIDE SHOP DRAWINGS SHOWING FULL INFORMATION FOR REINFORCING STEEL PLACEMENT. REINFORCING STEEL DETAILER SHALL ADEQUATELY CROSS REFERENCE THE STRUCTURAL DRAWINGS TO THE SATISFACTION OF THE ENGINEER. REINFORCING STEEL DETAILER SHALL DEVELOP ALL WALL ELEVATIONS AND SECTIONS WITH PERTINENT ELEVATIONS GIVEN, TO CLEARLY INDICATE THE POSITION OF THE REINFORCEMENT AND CONSTRUCTION JOINTS, WITHOUT REPRODUCING SECTIONS, PLANS, OR ELEVATIONS FROM THE DESIGN DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR NON-BEARING CMU WALLS AND ADD'L MASONRY DETAILS. FOR ADDITIONAL REQUIREMENTS SEE TYPICAL DETAILS AND MASONRY SPECIFICATIONS. ALL INTERIOR WALLS NOT INDICATED ON STRUCTURAL PLANS SHALL BEAR ON THICKENED SLAB FOUNDATIONS IN ACCORDANCE WITH TYPICAL DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF MASONRY WALLS AND FOR DETAILS OF EXPANSION JOINTS AND CONTROL JOINTS. PROVIDE CONTROL JOINTS AT A MINIMUM SPACING OF 35 FEET ON CENTER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL MASONRY WALLS SHALL BE REINFORCED WITH #5 AT 32" O.C. VERTICAL MINIMUM, UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS AND DETAILS. REDUCE SPACING OF REINFORCING TO 16" AT ENDS OF WALLS AND AT CORNERS. DOWEL ALL MASONRY WALLS TO CONCRETE SLABS, UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS. DOWEL SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCING. BUILDING CORNERS ARE DEFINED AS 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4H (H=MEAN ROOF HEIGHT), WHICHEVER IS SMALLER, BUT NOT LESS THAN 4 PERCENT OF LEAST HORIZONTAL DIMENSION OR 3 FEET.
- ALL MASONRY WALLS SHALL BE SOLID GROUTED BELOW GRADE.
- WELD GALVANIZED TIES CONFORMING TO ASTM A 82, CLASS B2 ANCHORS TO STEEL COLUMN AND BEAM FLANGES AND WEB. SPACE 16-INCHES ON CENTER MAX.
- PROVIDE TEMPORARY BRACING FOR MASONRY WALLS DURING ENTIRE ERECTION OF WALLS AND UNTIL THE MORTAR HAS DEVELOPED ADEQUATE STRENGTH. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL AT LEAST 7 DAYS HAVE ELAPSED SINCE THE WALL WAS COMPLETELY ERECTED.
- REINFORCE BOND BEAMS WITH 2-#5 CONTINUOUS MINIMUM, OR AS INDICATED. PROVIDE CONTINUOUS BOND BEAMS AT THE FOLLOWING LOCATIONS:
 - WHERE INDICATED IN SECTIONS AND DETAILS ON THE DRAWINGS
 - AT THE TOP OF ALL MASONRY WALLS (WITHIN TOP 2 COURSES)
 - AT EVERY 10'-0" O.C. OF MASONRY-WALL HEIGHT
 - AT THE TOP OF PARAPETS
 - BELOW STRIP WINDOW SILLS
- LINTELS SHALL BEAR ON SOLID OR SOLID GROUTED MASONRY AT LEAST 2 COURSES HIGH. PROVIDE 6 INCHES OF BEARING FOR STEEL LINTELS & 8 INCHES OF BEARING FOR PRECAST CONCRETE LINTELS.
- LINTELS FOR NON-BEARING WALLS ARE SHOWN IN THE LOOSE LINTEL SCHEDULE.
- LINTELS FOR LOAD BEARING WALLS ARE SHOWN ON PLAN AND SCHEDULES.
- INSPECT MASONRY CONSTRUCTION PER IN ACCORDANCE WITH REQUIREMENTS OF THE CURRENT BUILDING CODE.

NON-BEARING WALL LINTEL SCHEDULE			
BRICK VENEER		CMU WALLS	
MAX SPAN	GALV. LOOSE LINTELS FOR 4" BRICK	PRECAST CONC LINTELS OR GALV WF STEEL BEAMS	
		8" CMU	12" CMU
4'-0"	L 3 1/2 x 3 1/2 x 5/16		
6'-0"	L 4 x 3 1/2 x 5/16 LLV	8x8 W/ 2-#5 T & B	(2) 6x8 W/ (2) #5 T & B EA.
8'-0"	L 6 x 3 1/2 x 5/16 LLV		
10'-0"	L 6 x 3 1/2 x 3/8 LLV	W8x31	W14x31

UNISTRUT NOTES

- CONTRACTOR TO RETAIN A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT WHO SHALL DESIGN ALL THE UNISTRUT AND THEIR CONNECTIONS TO MEET THE REQUIREMENTS OF THE INTENT SHOWN ON THESE DRAWINGS. THE SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF THE ENGINEER. ALL CALCULATIONS SHALL BE SUBMITTED TO THE OWNER AND THE ARCHITECT FOR RECORD ONLY.
- UNISTRUT SIZES SHOWN ARE FOR PRICING ONLY. UNISTRUT ENGINEER TO VERIFY SIZES SHOWN AND LAYOUT TO MEET THE DESIGN REQUIREMENTS OF SIEMENS EQUIPMENT.
- COORDINATE WITH EQUIPMENT DRAWINGS SPECIFIC TOLERANCES AND REQUIREMENTS WHICH THE UNISTRUT SYSTEM MUST MEET FOR THE PROPER FUNCTIONALITY OF THE SUPPORTED EQUIPMENT.
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND EQUIPMENT MANUFACTURER FOR REVIEW. DO NOT START ANY FABRICATION UNTIL SHOP DRAWINGS ARE REVIEWED BY THE ARCHITECT AND THE EQUIPMENT MANUFACTURER.
- SIZES ARE BASED ON UNISTRUT SYSTEM. ALTERNATE SUPPORT SYSTEMS MAY BE SUBMITTED FOR APPROVAL BY THE ARCHITECT BUT THE SYSTEM MUST BE ENGINEERED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT.
- ALL CONNECTIONS SHALL BE MADE USING A MIN. OF 1/2-INCH DIAMETER BOLTS AND SPRING NUTS.

CONCRETE NOTES

- ALL CONCRETE SHALL BE READY-MIX. ALL CONCRETE SHALL HAVE A WATER REDUCING ADMIXTURE AS REQUIRED TO INCREASE WORKABILITY. WORKABILITY SHALL NOT BE ACHIEVED THROUGH THE ADDITION OF WATER TO THE MIX. CONCRETE SLUMP PRIOR TO ADMIXTURE ADDITION SHALL BE A MAXIMUM OF 3 INCHES. PROPORTIONS OF CONCRETE ADMIXTURES SHALL BE DETERMINED BY THE CONCRETE MIX DESIGNER. DO NOT USE ADMIXTURES THAT CONTAIN CHLORIDES.
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE FOLLOWING ACI PUBLICATIONS ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS), ACI 302 (RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION), ACI 304 (ACI MANUAL OF CONCRETE INSPECTION), ACI 311 (RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE), ACI 315 (DETAILS AND DETAILING OF CONCRETE REINFORCEMENT), ACI 318 (BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE), ACI 347 (RECOMMENDED PRACTICE FOR CONCRETE FORMWORK), AND ACI 546 (CONCRETE REPAIR GUIDE). IN ADDITION, REFER TO THE CRSI - MANUAL OF STANDARD PRACTICE FOR DETAILS ON THE FABRICATION AND PLACEMENT OF CONCRETE REINFORCING.
- PRIOR TO FABRICATION OR SHIPMENT OF MATERIAL, THE CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL OF SHOP DRAWINGS, SHOP DRAWINGS SHALL INCLUDE BENDING DIAGRAM, SPLICING, LAPPING, SHAPES, DIMENSIONS AND DETAILS OF ALL BAR REINFORCING. THE APPROVAL OF SHOP DRAWINGS WILL BE FOR ARRANGEMENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ERRORS, OMISSIONS OR THE ACCURACY OF HIS OWN DIMENSIONS, DRAWINGS AND DETAILS SHALL CONFORM WITH ACI 315. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO THE ARCHITECT.
- ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615-04A GRADE 60 EXCEPT #14 BARS AND LARGER WHICH SHALL CONFORM TO ASTM A615 GRADE 75. WWF SHALL BE COMPRISED OF CARBON STEEL PLAIN WIRES FABRICATED INTO SHEETS OR ROLLS IN ACCORDANCE WITH ASTM A1064.
- ALL CONCRETE WORK SHALL BE CURED FOR A MINIMUM OF 7 DAYS IN ACCORDANCE WITH ACI STANDARDS.
- ALL CONCRETE USED TO PATCH EXISTING CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. THE CONCRETE TYPE (NORMAL WEIGHT OR LIGHTWEIGHT) SHALL BE THE SAME AS THE EXISTING ADJACENT CONCRETE.
- VERIFY THE DIMENSIONS OF AND INSTALL IN THE FORMS ALL SLOTS, SLEEVES, ANCHOR BOLTS, MASONRY ANCHORS, POCKETS, ETC. AS REQUIRED FOR OTHER TRADES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR CONCRETE EQUIPMENT PADS AND FOUNDATIONS REQUIRED.
- SEE SECTIONS AND DETAILS FOR ALL EQUIPMENT OPENINGS, DEPRESSIONS, FLOOR DRAINS, PIPE SLEEVES, CURBS, ETC. COORDINATE EQUIPMENT REQUIREMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS PRIOR TO POURING CONCRETE. OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
- FOOTING, SLAB, AND WALL REINFORCEMENT NOT SHOWN ON SECTIONS AND PLANS IS THE SAME AS THAT SHOWN IN SIMILAR SECTIONS AND AT SIMILAR LOCATIONS.
- LAP ALL BARS PER THE SCHEDULES ON THE STRUCTURAL DRAWINGS. LAP ALL WWF A MINIMUM OF 6 INCHES.
- CONTRACTOR SHALL PROVIDE ALL BOLSTERS, CHAIRS, BAR POSITIONERS, ETC. AS REQUIRED TO SET REBAR AND SLAB WWF TO REQUIRED DIMENSIONS INDICATED ON DRAWINGS. ALL CONCRETE BLOCKS USED TO POSITION REINFORCEMENT SHALL BE PRECAST CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB OR FOUNDATION SYSTEM.
- CONSTRUCTION JOINTS ARE NOT PERMITTED IN BEAMS, WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- SAW CUTTING OF CONTRACTION JOINTS IS NOT REQUIRED IN ELEVATED CONCRETE FLOORS SUPPORTED ON METAL DECK.
- CONTRACTOR SHALL MAKE ALLOWANCES FOR ADDITIONAL CONCRETE REQUIRED AT ELEVATED DECK SUPPORTED CONCRETE FLOORS DUE TO DEFLECTION OF THE STEEL DECK FROM THE DEAD WEIGHT OF CONCRETE AND CONSTRUCTION LOADING IN ACCORDANCE WITH SDI GUIDELINES.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING DETAILS AT FOUNDATIONS, WALLS, AND SLABS.
- CONCRETE CONTRACTOR SHALL PROVIDE ADDITIONAL SLAB REINFORCEMENT AT ALL CONCRETE SLAB RE-ENTRANT CORNERS. THIS REINFORCEMENT SHALL BE COMPRISED OF A #4 BAR x 4'-0" LONG LOCATED WITHIN 2 INCHES FROM THE TOP OF THE SLAB UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- EPOXY COATED REINFORCING STEEL SHALL CONFORM TO ASTM A775.
- ALL CONCRETE PLACED AT TEMPERATURES BELOW 50 DEGREES F, SHALL CONFORM TO THE REQUIREMENTS OF ACI 306 "COLD WEATHER CONCRETING". ALL CONCRETE PLACED IN HOT WEATHER SHALL CONFORM TO THE REQUIREMENTS OF ACI 305 "HOT WEATHER CONCRETING".
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLEEVES, INSERTS, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS AS REQUIRED BY OTHER TRADES. ALL SLEEVES, INSERTS AND ANCHOR BOLTS SHALL BE CAST-IN-PLACE. SAW-CUTTING, CORING OR DRILLING OF SLEEVES OR OPENINGS THROUGH PREVIOUSLY CAST CONCRETE IS NOT PERMITTED UNLESS REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- ALL CONCRETE SHALL BE PROPERLY CONSOLIDATED THROUGH THE USE OF VIBRATORS. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE ALONG FORMWORK.
- FOR ADDITIONAL REQUIREMENTS, SEE TYPICAL DETAILS.
- ALL SLABS SHALL BE FLAT AND LEVEL PER THE CONCRETE SPECIFICATIONS.

POST-INSTALLED ANCHORS

- THE ADHESIVE ANCHOR SYSTEM USED FOR POST-INSTALLED ANCHORAGE TO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY PUBLISHED ACI 308.4, ACCEPTANCE CRITERIA FOR QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE AND COMMENTARY.
- THE ADHESIVE ANCHORS SHALL BE SUPPLIED AS AN ENTIRE SYSTEM. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, THE NEW ADHESIVE CARTRIDGE, A CLEAN MIXING NOZZLE, EXTENSION TUBE, A DISPENSING GUN, AND ALL MANUFACTURER RECOMMENDED SUPPLIES FOR PROPERLY CLEANING THE DRILLED HOLE.
- EYEBOLTS, THREADED STUDS, INTERNAL, THREADED PARTS TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36, A193 (GRADE B7), A307, B348 (BD), OR F1554. THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHERWISE. COMPATIBLE NUTS AND WASHERS SHALL BE FURNISHED WITH THE ALL-THREAD ROD AND CONSIDERED PART OF THE ASSEMBLY. THE COST OF THE HARDWARE SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLED ADHESIVE ANCHOR ASSEMBLY.
- NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREADED BAR ADHESIVE ANCHOR SYSTEM SHALL HAVE A MATERIAL OR AN ALLOY DESIGNATION THAT MATCHES THE ALL-THREAD MATERIAL / ALLOY.
- ADHESIVES SHALL BE STORED AND INSTALLED AT THE SERVICE TEMPERATURE RANGES RECOMMENDED BY THE MANUFACTURER.
- ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL, TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER AND THE CONTRACT DOCUMENTS. POST-INSTALLED ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO INSTALL THE ADHESIVE ANCHOR INCLUDING, BUT NOT LIMITED TO, DRILLS, SETTING TOOLS, CLEAN-OUT BRUSHES, BLOW OUT BULBS, OIL-FREE COMPRESSED AIR, SHOP VACUUMS, WIPERS, ETC.
- ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR ROCK DRILL.
- ANCHOR HOLES SHALL BE THOROUGHLY CLEANED PRIOR TO ADHESIVE INJECTION, AS REQUIRED BY THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS.
- ANCHORS TO BE INSTALLED IN THE ADHESIVE SHALL BE CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, PAINT, OR OTHER COATINGS ON THE STEEL ETC.
- INSTALLED ADHESIVE ANCHORS SHALL BE SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE CONCRETE SURFACE. ANCHORS DISPLACED BEFORE FULL ADHESIVE CURE SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING ADHESIVELY EMBEDDED IN HARDENED, SOUND CONCRETE, UNLESS PERMITTED BY THE ENGINEER.
- INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

METAL DECK NOTES

- ALL METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI).
- ALL FORM METAL FLOOR DECK SUPPORTING CONCRETE SLABS SHALL BE CONTINUOUS OVER A MINIMUM OF TWO OR MORE SPANS. WHERE LESS THAN TWO SPANS ARE UNAVOIDABLE PROVIDE SHORING OF THE METAL DECK AT MIDSPAN DURING THE CONCRETE PLACEMENT UNTIL THE CONCRETE HAS REACHED ITS 28 DAY COMPRESSIVE DESIGN STRENGTH. TWO LAYERS OF METAL DECK MAY BE INSTALLED AT SINGLE SPAN CONDITIONS IN LIEU OF SHORING.
- CONTRACTOR TO SUBMIT A COMPLETE SET OF METAL DECK SHOP DRAWINGS SHOWING LOCATION OF DECK UNITS, ANCHORAGE DETAILS AND ACCESSORIES.
- UNLESS NOTED OTHERWISE IN THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS, ALL ROOF DECK SHALL BE PRIME PAINTED WITH MANUFACTURER'S STANDARD PRIME PAINT AND ALL FORM FLOOR DECK SHALL BE GALVANIZED TO G60 MINIMUM IN ACCORDANCE WITH ASTM A653.
- DECK MANUFACTURE SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE.
- CONTRACTOR TO PROVIDE ALL RIDGE AND VALLEY PLATES, FLAT PLATES AT CHANGES OF DECK DIRECTION, SUMP PANS, CONCRETE POUR STOPS AND SIDE CLOSURES AS REQUIRED.
- ALL WELDING OF METAL DECK SHALL COMPLY WITH THE PROVISIONS OF AWS STRUCTURAL WELDING CODE - SHEET STEEL.
- CONTRACTOR SHALL SUBMIT INDEPENDENT TEST REPORTS OR EVALUATION REPORTS FOR ALL MECHANICAL FASTENERS.

STRUCTURAL DRAWING INDEX

\$0.00	STRUCTURAL LEAD SHEET & SCHEDULES
\$0.10	STRUCTURAL LEAD SHEET & SCHEDULES
\$0.20	STRUCTURAL SPECIAL INSPECTION TABLES
\$0.30	STRUCTURAL SPECIAL INSPECTION TABLES
\$1.00	FOUNDATION PLAN
\$1.10	GIRT FRAMING PLAN
\$1.20	ROOF FRAMING PLAN
\$2.00	TYPICAL CONCRETE DETAILS
\$2.10	TYPICAL MASONRY DETAILS
\$2.11	TYPICAL MASONRY DETAILS
\$2.20	TYPICAL STEEL DETAILS
\$2.21	TYPICAL STEEL DETAILS
\$3.00	FOUNDATION SECTIONS
\$3.10	GIRT FRAMING SECTIONS
\$3.20	ROOF FRAMING SECTIONS
\$4.00	WRESTLING ROOF JOISTS
\$4.10	MAIN GYM ROOF JOISTS
\$4.20	ENTRANCE ROOF JOISTS

DESIGN CRITERIA

IBC 2021, NJ ED

FLOOR DESIGN LIVE LOADS	PUBLIC AREAS	100 PSF
ROOF DESIGN LIVE LOADS	ROOF AREAS	30 PSF
SNOW LOADS	GROUND SNOW LOAD, FLAT ROOF SNOW LOAD (USED FOR DESIGN) SNOW EXPOSURE FACTOR SNOW LOAD IMPORTANCE FACTOR THERMAL FACTOR, DEPTH TO FROST	P _G = 25 PSF P _F = 23.1 PSF I _{SE} = 1.0 I _T = 1.2 C _T = 1.1 36 INCHES
LATERAL LOADS - WIND	WIND LOAD DESIGN PARAMETERS:	V = 126 MPH I _{WT} = 1.0 G _C p ₁ = ±0.18
	WIND LOADS ON COMPONENTS AND CLADDING:	
	COMPONENT LOCATION**	
	ZONE 1 TYPICAL ROOF	16.0 PSF/45.5 PSF
	ZONE 2 ROOF PERIMETER	16.0 PSF/45.5 PSF
	ZONE 3 ROOF CORNER	16.0 PSF/72.2 PSF
	ZONE 4 TYPICAL WALL	26.2 PSF/28.4 PSF
	ZONE 5 WALL CORNERS	26.2 PSF/34.9 PSF
	**NOTE : COMPONENT WIND LOADS ARE BASED ON A TRIBUTARY AREA OF 10 SQ. FT. VALUES MAY BE ADJUSTED PROVIDED WIND LOAD CALCULATIONS ARE SUBMITTED FOR REVIEW.	
LATERAL LOADS - SEISMIC	SEISMIC LOAD INFORMATION FOR STRUCTURAL FRAME:	
	RISK CATEGORY	III
	SEISMIC IMPORTANCE FACTOR,	I _E = 1.25
	SHORT PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION	S _S = 0.177
	1-SECOND MAPPED SPECTRAL RESPONSE ACCELERATION	S ₁ = 0.047
	LONG PERIOD TRANSITION PERIOD	T _L = 6
	SITE CLASS	
	SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT	S _{DS} = 0.188
	1-SECOND PERIOD SPECTRAL RESPONSE COEFFICIENT	S _{D1} = 0.075
	SEISMIC DESIGN CATEGORY,	B
	ANALYSIS PROCEDURE	EQUIV. LAT. FORCE
	BASIC SEISMIC-FORCE-RESISTING SYSTEM	INT REINFORC MASONRY SW & STEEL SYST NOT SPEC DET FOR SIESMIC & ORDINARY CAST STEEL COLUMN SYSTEM
	RESPONSE MODIFICATION FACTOR,	R = 3.5 & 3.0 & 1.25

ABBREVIATIONS

AB	ANCHOR BOLT	FDN	FOUNDATION	PSF	POUNDS PER SQUARE FOOT
ACI	AMERICAN CONCRETE INSTITUTE	FIN	FINISH	REINF	REINFORCING
ADJMT	ADJUSTMENT	FLG	FLANGE	REQD	REQUIRED
ADND	ADDITIONAL	FLR	FLOOR	RET	RETAINING
ANCH	ANCHOR	FRMG	FRAMING	REV	REVISION
ARCH	ARCHITECTURAL	FS	FAR SIDE	RF	ROOF
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FTG	FOOTING	R.O.	ROUGH OPENING
BLDG	BUILDING	GAGE	GALVANIZED	SCHED	SCHEDULE
BLKS	BLOCKING	GB	GRADE BEAM	SECT	SECTION
BM	BEAM	GC	GENERAL CONTRACTOR	SPAN	SPANDREL
BOT	BOTTOM	GRAN	GRANULAR	SPEC	SPECIFICATIONS
BPL	BASEPLATE	GR BM	GRADE BEAM	STAGG	STAGGERED
BRG	BRACING	H	HORIZONTAL (USED W/ REINF.)	STD	STANDARD
BRK	BRICK	HK	HOCK	STIFF	STIFFENER
BRKT	BRAKET	HORIZ	HORIZONTAL	SUPP	SUPPORT
BS	BOTH SIDE (USED W/ REINF)	HP	HIGH POINT	T&B	TOP AND BOTTOM
BS	BRICK SHELF	IE	INVERT ELEVATION	TEMP	TEMPORARY
BSMT	BASEMENT	I.F.	INSIDE FACE	THK	THICK, THICKNESS
BWNT	BETWEEN	INCL	INCLUSIVE	TOL	TOLERANCE
CANT	CANTILEVER	INFO	INFORMATION	T.O.P.	TOP OF PEDESTAL
CB	CONCRETE BEAM	JT	JOINT	T.O.S.	TOP OF STEEL
CJ	CONTROL JOINT	K	KIPS (1000 LB.)	T.O.W.	TOP OF WALL
CL	CENTERLINE	KSF	KIPS PER SQUARE FOOT	TYP	TYPICAL
CLR	CLEAR	KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
CM	CONSTRUCTION MANAGER	LL	LIVE LOAD	V	VERTICAL (USED W/ REINF.)
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZONTAL	VERT	VERTICAL
COL	COLUMN	LLV	LONG LEG VERTICAL	VIF	VERIFY IN FIELD

GENERAL STRUCTURAL NOTES

- STRUCTURAL STEEL NOTES
- FABRICATION, DETAILING AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" & AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES". QUALITY CONTROL AND QUALITY ASSURANCE DURING STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CHAPTER N OF AISC 360.
 - ALL STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING:
 - WIDE FLANGE FRAMINGS
 - ASTM A992 GRADE 50
 - BASE PLATES, MOMENT PLATES AND SPLICE PLATES
 - ASTM A572 GRADE 50
 - HOLLOW STRUCTURAL STEEL FRAMING
 - ASTM A500 GRADE C
 - ANGLES, CHANNELS AND OTHER PLATES
 - ASTM A36
 - STEEL PIPE
 - ASTM 501 OR A53 GR. B
 - STEEL JOISTS AND JOIST GIRDERS TO BE DESIGNED AND MANUFACTURED PER THE LATEST EDITION OF THE STANDARD SPECIFICATION FOR STEEL JOISTS AND JOIST GIRDERS PUBLISHED BY THE STEEL JOIST INSTITUTE (SJI). SEE DESIGN CRITERIA FOR LOAD REQUIREMENTS. ALL STEEL JOISTS AND JOIST GIRDER MANUFACTURERS TO BE APPROVED MEMBERS OF SJI. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS SEALED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT.
 - VERIFY IN THE FIELD BY A SURVEY ALL EXISTING CONDITIONS CONNECTED WITH HIS WORK INCLUDING ANCHOR BOLT LOCATIONS PRIOR TO ORDERING ANY MATERIAL OR COMMENCEMENT OF ANY WORK.
 - PROVIDE SATISFACTORY BRACING OF THE EXISTING AND NEW STEEL FRAME UNTIL ALL NEW FRAMING AND THE METAL DECK IS ERECTED AND FINAL CONNECTIONS ARE COMPLETE AND THE CONCRETE SLABS ON METAL DECK ARE PLACED.
 - ALL STRUCTURAL STEEL DIRECTLY EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED AND TOUCHED UP WITH ZRC WHERE ABRADED OR AFTER WELDING (SEE SPECIFICATIONS).
 - MAIN SUPPORT MEMBERS FOR THE METAL DECK ARE SHOWN ON THE CONTRACT DRAWINGS. DURING PREPARATION, SUBMISSION, AND REVIEW OF SHOP DRAWINGS ANY ADDITIONAL SUPPORT OR ATTACHMENT DETAILS REQUIRED TO ESTABLISH THE METAL DECK AT THE REQUIRED ELEVATION SHALL BE PROVIDED BY THE STRUCTURAL STEEL CONTRACTOR AT NO ADDITIONAL COST.
 - ALL MASONRY AND BRICK ANCHORS SHALL BE SHOP WELDED TO THE STRUCTURAL STEEL FRAMING AND COLUMNS. SEE SPECIFICATIONS FOR SPACING ETC.
 - ANY FIELD WELDING TO ANY EXISTING JOIST OR OTHER THIN MEMBER SHALL BE PERFORMED WITH EXTREME CARE SO AS TO AVOID EXCESSIVE DAMAGE TO THE BASE METAL.
 - ALL CONNECTIONS SHALL BE BOLTED OR WELDED, UNLESS NOTED OTHERWISE. FULL DEPTH DOUBLE ANGLE CONNECTIONS ARE TO BE USED ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS. BOLTS TO BE SPACED AT 3 INCHES ON CENTER VERTICALLY.
 - ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE "N" WITH THE THREADS INCLUDED IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE BOLTED "SNUG-TIGHT" UNLESS NOTED OTHERWISE.
 - ALL BOLTS SHALL CONFORM TO ASTM A325 OR A490. NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM A-F436. ALL BOLTS TO BE 3/4" DIAMETER (MIN) OR AS NEEDED FOR CONNECTION DESIGN.
 - PROVIDE A MINIMUM 3/8" THICK FULL DEPTH TAB PLATE FOR ALL PIPE AND TUBE COLUMN CONNECTIONS OR AS NEEDED FOR CONNECTION DESIGN.
 - ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1 LATEST EDITION. WELDING ELECTRODES SHALL BE E70XX.
 - ALL WELDS SHALL MEET THE MINIMUM WELD SIZE SPECIFIED BY THE AISC MANUAL OF STEEL DESIGN TABLE J2.4 UNLESS NOTED OTHERWISE.
 - ALL ANCHOR BOLTS/RODS SHALL CONFORM TO ASTM F 1554 GRADE 36 WITH WELDABILITY SUPPLEMENT S1, UNLESS NOTED OTHERWISE.
 - ALL LINTELS AND SHELF ANGLES IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM 123. ALL POINTS OF WELDING AND AREAS DAMAGED DURING CONSTRUCTION SHALL BE TOUCHED UP WITH ZRC.
 - ALL STEEL NOT RECEIVING FIREPROOFING SHALL BE PAINTED WITH A SHOP COAT OF RUST INHIBITIVE PRIMER. DO NOT PAINT THE FAYING SURFACES OF SLIP-CRITICAL CONNECTIONS. STEEL SCHEDULED TO RECEIVE FIREPROOFING IS INDICATED ON THE ARCHITECTURAL DRAWINGS.
 - ALL STEEL SHALL BE PREPARED WITH POWER TOOL CLEANING (SSPC SP3) PRIOR TO APPLYING PRIMER OR GALVANIZING.
 - MILL CAMBER TO BE ORIENTED UP DURING FABRICATION AND ERECTION.
 - PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOAD (BEAM FRAMING OVER THE TOP OF COLUMN OR SUPPORTING A COLUMN). MINIMUM PLATE THICKNESS TO BE 3/8" OR FLANGE THICKNESS OF COLUMNS ABOVE OR BELOW, WHICHEVER IS GREATER. THE COLUMN CAP OR BASE PLATE SHALL HAVE A MINIMUM THICKNESS OF 1/2" OR FLANGE THICKNESS OF BEAM, WHICHEVER IS GREATER.
 - ALL ALUMINUM AND STEEL MEMBERS TO BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.
 - STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFYING EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
 - THE DESIGN AND DETAILING OF ALL CONNECTIONS THAT ARE NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS ARE THE RESPONSIBILITY OF THE STEEL FABRICATOR. THE CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE REQUIREMENTS IN THE AISC SPECIFICATION AND THE CONTRACT DOCUMENTS. ALL CONNECTIONS SHALL BE DESIGNED FOR THE GREATER OF THE REACTIONS GIVEN ON THE FRAMING PLANS OR 30 KIPS (FACTORED LOAD). CONNECTION DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECTS JURISDICTION AND HIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT THE CONNECTION DETAILS AND SIGNED AND SEALED DESIGN CALCULATIONS, PRIOR TO SUBMITTING PIECE SHOP DRAWINGS.
 - GROUT FOR BASE, LEVELING AND BEARING PLATES SHALL BE NONMETALLIC AND SHRINK-RESISTANT WITH A 6,000 PSI (MIN) COMPRESSIVE STRENGTH AND CONFORM TO ASTM C1107. CONTRACTOR TO SUBMIT GROUT MANUFACTURERS DATA SHEETS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - UNLESS NOTED OTHERWISE, ALL BEAMS BEARING ON CONCRETE OR CMU WALLS SHALL BE SUPPORTED BY A STEEL BEARING PLATE WITH (2) x 1/2 INCH DIAMETER x 1/2 INCH LONG HEADED STUDS. MINIMUM PLATE THICKNESS TO BE 1/2" OR FLANGE THICKNESS OF BEAM, WHICHEVER IS GREATER. PLATE SHALL BE 1" WIDER THAN THE BEAM WIDTH AND EXTEND TO WITHIN 1/2" OF THE FACE OF THE WALL. FILL TWO COURSES OF CMU BELOW BEAM BEARING SOLID WITH 3,000 PSI GROUT.
 - CONTRACTOR TO SUBMIT A COMPLETE SET OF STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.
 - FOR ADDITIONAL REQUIREMENTS, SEE TYPICAL DETAILS.

STEEL JOIST NOTES

- ALL JOISTS SHALL BE DESIGNED FOR WIND UPLIFT PRESSURE OF 20 PSF.
- ALL STEEL JOISTS SHALL HAVE A SHOP COAT OF RUST INHIBITIVE NON-BITUMINOUS PAINT.
- STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED TO THE REQUIREMENTS OF THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE FOR SERIES K JOISTS. MANUFACTURER SHALL BE A MEMBER OF THE STEEL INSTITUTE. ALL BRIDGING TO BE IN ACCORDANCE WITH SJI STANDARDS. COORDINATE WITH DRAWINGS FOR ADDITIONAL BRIDGING LOCATIONS AND REQUIREMENTS.
- ALL BRIDGING AND CROSS BRIDGING TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SJI SPECIFICATIONS. PROVIDE CROSS BRIDGING AT END BAYS OF HORIZONTAL BRIDGING LINES. SEE PLANS AND SECTIONS FOR ADDITIONAL BRIDGING REQUIREMENTS.
- DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUOUS.
- DESIGN JOISTS WITH SPECIAL LOAD REQUIREMENTS FOR LOADS AS INDICATED ON LOADING DIAGRAMS SHOWN ON DRAWINGS.
- JOISTS SHALL BE PROVIDED WITH STANDARD BEARING SEATS AS INDICATED ON DRAWINGS. WHERE JOISTS WITH VARYING JOIST SEAT HEIGHT SHARE THE SAME BEARING, THE SMALLER JOIST SEAT SIZE SHALL BE INCREASED TO MATCH THE SEAT SIZE OF THE LARGER JOIST.
- JOISTS SHALL BE CAMBERED AS RECOMMENDED BY SJI.
- EXTEND, CONNECT AND WELD BOTTOM CHORDS OF JOISTS AT ALL COLUMNS AND WHERE NOTED ON DRAWINGS.
- PROVIDE RIGID CONNECTION OF BOTTOM CHORDS TO COLUMNS ON ALL K SERIES JOISTS ONLY AFTER ALL DEAD LOADS ARE APPLIED.
- JOIST MANUFACTURER MUST DESIGN BRIDGING ASSUMING THE ROOF DECK PROVIDES NO BRACING. CONTRACTOR SHALL NOT SUSPEND OR SUPPORT LOADS IN EXCESS OF WHAT IS SHOWN ON THE CONTRACT DRAWINGS AND IN THE DESIGN LOAD SCHEDULE FROM OR ON JOISTS WITHOUT FIRST OBTAINING APPROVAL FROM THE ENGINEER. THIS INCLUDES, BUT NOT LIMITED TO, LOADS FROM PIPING, SPRINKLER MAINS, HVAC, AND EQUIPMENT.
- MECHANICAL EQUIPMENT SUPPORTS ON OR FROM JOIST CHORDS SHALL BE LOCATED WITHIN FOUR (4) INCHES OF A JOIST PANEL POINT OR JOIST SHALL BE REINFORCED PER THE JOIST REINFORCING DETAIL SHOWN ON THE DRAWINGS. HANGER LOADS SHALL NOT BE ATTACHED TO THE EDGE OF JOIST CHORD ANGLES AND MUST BE CENTERED ON THE JOIST CHORD. DO NOT DRILL OR PUNCH ANY HOLES THROUGH JOIST CHORD ANGLES WITHOUT WRITTEN APPROVAL FROM THE JOIST MANUFACTURER.

CONCRETE MIX DESIGN AND DURABILITY REQUIREMENTS PER ACI 318 BUILDING CODE									
LOCATION	DENSITY NW = 145 pcf LW = 120 pcf	FREEZE / THAW SEVERITY	SULFATE SEVERITY	IN CONTACT WITH WATER	CORROSION PROTECTION OF REINF.	f' _c (PSI)	AIR CONTENT	w/c RATIO (MAX)	FIBER REINFORCING
PERIMETER FOUNDATIONS PIERS & PEDESTALS	NW	F2	S0	W1	C1	4,500	6%	0.45	----
INTERIOR FOUNDATIONS PIERS & PEDESTALS	NW	F0	S0	W0	C0	4,000	----	0.45	----
EXTERIOR SLAB ON GRADE	NW	F3	S0	W1	C2	4,500	6%	0.40	----
INTERIOR SLAB ON GRADE	NW	F0	S0	W0	C0	4,000	----	0.50	1.0 LBS/CY
NORMAL WEIGHT SLAB ON METAL DECK	NW	F0	S0	W0	C0	4,000	----	0.50	1.0 LBS/CY
ALL CONCRETE EXPOSED TO FREEZE-THAW CONDITIONS	NW	F3	S0	W1	C2	4,500	6%	0.40	----
ALL OTHER CONCRETE	NW	F0	S0	W0	C0	4,000	----	0.45	----

- ALL CONCRETE MIX DESIGNS SHALL BE DESIGNED BY ENGINEERS RETAINED BY THE CONCRETE SUPPLIER ACCORDING TO THE CRITERIA CONTAINED WITHIN THESE NOTES AND AS SHOWN ON THE STRUCTURAL DRAWINGS. SUBMIT ALL CONCRETE MIX DESIGNS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL SUBMITTED MIX DESIGNS SHALL INCLUDE SAMPLE CYLINDER BREAK TEST RESULTS CONFIRMING COMPRESSIVE STRENGTH OF EACH MIX DESIGN.
- REFER TO CHAPTER 4 OF THE ACI-318 BUILDING CODE FOR ADDITIONAL INFORMATION NOT PROVIDED OR NOTED IN THE ABOVE SCHEDULE.
- TOTAL AIR CONTENT LISTED IN THE ABOVE SCHEDULE IS BASED ON A MAXIMUM AGGREGATE SIZE OF 3/4" AND SHALL BE ADJUSTED BY THE CONCRETE MIX DESIGNER AS REQUIRED FOR DIFFERENT AGGREGATE SIZES PER ACI-318.
- REFER TO PROJECT SPECIFICATIONS FOR FLY ASH OR OTHER POZZOLANS LIMITATIONS.
- (*) DENOTES PROVIDE CORROSION INHIBITING ADMIXTURE IN ALL PARKING GARAGE SUSPENDED SLAB APPLICATIONS.

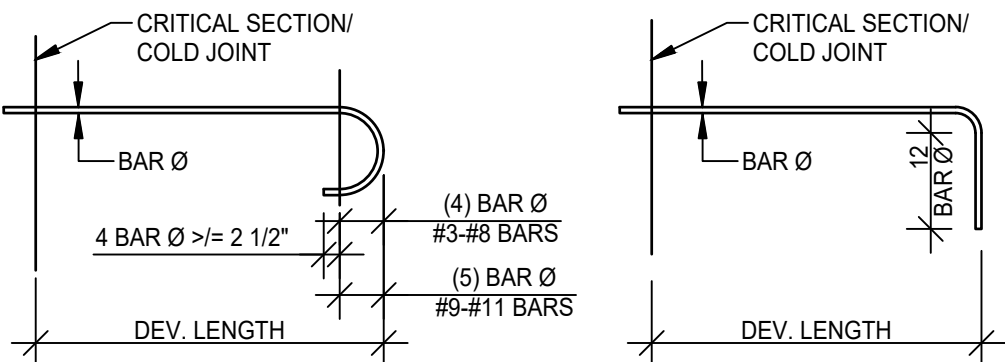
TENSION DEVELOPMENT LENGTHS (UNCOATED BARS)												
BAR SIZE	3,000 PSI CONCRETE				4,000 PSI CONCRETE				4,500 PSI CONCRETE			
	L _d PER SPACING AND COVER				L _d PER SPACING AND COVER				L _d PER SPACING AND COVER			
	CASE 1		CASE 2		CASE 1		CASE 2		CASE 1		CASE 2	
	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS
#3	22	17	32	25	19	15	28	22	18	14	27	21
#4	29	22	43	33	25	19	37	29	24	18	35	27
#5	36	28	54	41	31	24	47	36	30	23	44	34
#6	43	33	64	50	37	29	56	43	35	27	53	41
#7	63	48	94	72	54	42	81	63	51	40	77	59
#8	72	55	107	82	62	48	93	71	59	45	88	68
#9	81	62	121	93	70	54	105	81	66	51	99	76
#10	91	70	136	105	79	61	118	91	73	56	110	84
#11	101	78	151	116	87	67	131	101	80	62	120	93

TENSION SPLICE LENGTHS (UNCOATED BARS)												
BAR SIZE	3,000 PSI CONCRETE				4,000 PSI CONCRETE				4,500 PSI CONCRETE			
	LAP LENGTH PER SPACING AND COVER				LAP LENGTH PER SPACING AND COVER				LAP LENGTH PER SPACING AND COVER			
	CASE 1		CASE 2		CASE 1		CASE 2		CASE 1		CASE 2	
	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS
#3	28	22	42	32	24	19	36	28	24	19	36	28
#4	37	29	56	43	32	25	48	37	32	24	46	36
#5	47	36	70	54	40	31	60	47	39	30	58	45
#6	56	43	84	64	48	37	72	56	46	36	69	54
#7	81	63	122	94	70	54	106	81	67	52	101	77
#8	93	72	139	107	80	62	121	93	77	59	115	89
#9	105	81	157	121	91	70	136	105	86	67	129	99
#10	118	91	177	136	102	79	153	118	95	73	143	110
#11	131	101	196	151	113	87	170	131	104	81	156	121

NOTES ON BAR SPLICES

- CASE 1 - BEAMS AND COLUMNS:
 - CONCRETE COVER ≥ db, C-C, BAR SPACING ≥ 2db AND WITH STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM
 - OTHER MEMBERS: CONCRETE COVER ≥ db, C-C, BAR SPACING ≥ 3db
- CASE 2 - BEAMS AND COLUMNS:
 - CONCRETE COVER < db AND C-C, BAR SPACING < 2db
 - OTHER MEMBERS: CONCRETE COVER < db OR C-C, BAR SPACING < 3db
- VERTICAL COLUMN REINFORCING SHALL BE A CONTINUOUS BAR WHENEVER POSSIBLE. IF SPLICES ARE REQUIRED USE LAP LENGTHS SHOWN AND SUBMIT FOR ENGINEER'S APPROVAL.

STANDARD HOOK TENSION DEVELOPMENT LENGTHS (UNCOATED BARS) (IN.)						
CONC.	3,000 PSI		4,000 PSI		5,000 PSI	
BAR	NW	LW	NW	LW	NW	LW
#3	9	11	8	10	7	9
#4	11	15	10	13	9	11
#5	14	18	12	16	11	14
#6	17	22	15	19	13	17
#7	20	25	17	22	15	20
#8	22	29	19	25	17	23
#9	25	33	22	28	20	25
#10	28	36	24	31	22	28
#11	31	40	27	34	24	31



CAST IN PLACE CONCRETE CLEAR COVER FOR REINFORCING	
EXPOSURE CONDITION	COVER
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER BARS #6 AND LARGER BARS	1-1/2" 2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: STRUCTURAL SLABS BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS, & SPIRALS)	1-1/2" 2"
SLABS ON GRADE	1-1/2"

SHOP DRAWINGS AND SUBMITTALS REQUIREMENTS

SHOP DRAWINGS AND SUBMITTALS		SIGNED AND SEALED DRAWINGS	SIGNED AND SEALED CALCULATIONS
MEANS & METHODS			
1	TEMPORARY SHORING	●	
EARTHWORK			
1	UNDERPINNING	●	
2	TEMPORARY SHEETING & SHORING	●	
STEEL CONSTRUCTION			
1	STEEL SHOP DRAWINGS		
2	STEEL CONNECTION CALCULATIONS		●
3	STEEL JOIST & JOIST GIRDER SHOP DRAWINGS		
4	METAL DECK SHOP DRAWINGS		
5	METAL STAIRS, RAILING, GUARDRAILS, ETC	●	●
6	METAL GRATING		
CONCRETE CONSTRUCTION			
1	CONCRETE MIX DESIGN		
2	CONCRETE REBAR SHOP DRAWINGS		
3	FORMS, SHORING & RESHORING		
4	POST-INSTALLED ANCHOR MATERIALS		
MASONRY CONSTRUCTION			
1	MASONRY REBAR SHOP DRAWINGS		
2	MASONRY MATERIALS - GROUT, MORTAR, CMU BLOCK		

- THE ITEMS LISTED IN THE TABLE ABOVE ARE THE MINIMUM REQUIRED SHOP DRAWINGS FOR THIS PROJECT. IF ADDITIONAL SHOP DRAWINGS OR SUBMITTALS ARE RECEIVED FOR THIS PROJECT, CONTRACTOR SHALL SUBMIT THEM TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- DENOTES SIGNED AND SEALED DRAWINGS AND/OR SIGNED AND SEALED CALCULATIONS ARE REQUIRED FOR THAT ITEM. DRAWINGS AND/OR CALCULATIONS SHALL BE DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THIS PROJECTS JURISDICTION RETAINED BY THE OWNER OR CONTRACTOR.
- REPRODUCTION OF STRUCTURAL DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED UNLESS WRITTEN APPROVAL IS REQUESTED BY THE CONTRACTOR AND IT IS GRANTED BY VARANO TOVINSKY, LLC.
- SUBMIT SHOP DRAWINGS SUCH THAT BY THE TIME THEY ARE RECEIVED BY VARANO TOVINSKY, LLC, THERE WILL BE AT LEAST 14 DAYS BEFORE REVIEWED SUBMITTALS WILL BE NEEDED. ANY REVIEW THAT IS REQUIRED MORE EXPEDIENTLY WILL BE AT THE CONTRACTOR'S EXPENSE. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL CERTIFYING THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. IF REVIEW OF AN INCOMPLETE SHOP DRAWING IS REQUIRED, THAT SHOP DRAWING SHALL BE CLEARLY MARKED AS INCOMPLETE. THE AREA THAT NEEDS TO BE REVIEWED SHALL BE CLEARLY NOTED WITH AN EXPLANATION FOR THE REASON OF PARTIAL APPROVAL.
- THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECTS JURISDICTION SHOWING THE DESIGNS OF METAL STAIRS, METAL RAILINGS AND CONNECTIONS TO STRUCTURE TAKING INTO ACCOUNT THE VERTICAL AND LATERAL LOADS STATED IN THE GOVERNING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED ON THE STRUCTURAL CONTRACT DRAWINGS TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE IMPOSED ON THESE STRUCTURAL MEMBERS. IF ECCENTRIC CONNECTIONS ARE USED, CONTRACTOR SHALL PROVIDE BRACING ELEMENTS FOR ALL SUPPORTING STEEL TO ELIMINATE THE TORSIONAL EFFECTS OF THE ECCENTRIC CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EMBEDDED ITEMS AND HARDWARE AS REQUIRED PER THE STAIR DESIGN.

DELEGATED DESIGN TABLE

1	EXCAVATION SUPPORT - SHEETING, SHORING, TEMPORARY BRACING, SUPPORT FOR CONSTRUCTION EQUIPMENT SURCHARGE LOADS
2	MEANS AND METHODS - BUILDING SHORING DURING CONSTRUCTION, SCAFFOLDING, FALL PROTECTIONS, TEMPORARY SUPPORTS, RIGGING HOISTS AND CRANES
3	STEEL CONSTRUCTION - CONNECTION DESIGN, METAL STAIRS, RAILINGS, GUARDRAILS, ETC.
4	MASONRY - TEMPORARY MASONRY SHORING
5	SITE APPURTENANCES - SITE WALLS, PLANTERS, POOLS, TRELLISES, GAZEBOOS, ETC.
6	UNDERPINNING - EXISTING BUILDING UNDERPINNING (IF REQUIRED)
7	LIGHT GAUGE METAL FRAMING - NON-LOAD BEARING METAL STUD & METAL STUD CURTAIN WALLS, PRE-MANUFACTURED LIGHT GAUGE TRUSSES

- THE ITEMS LISTED IN THE TABLE ABOVE HAVE NOT BEEN DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECTS JURISDICTION TO DESIGN THE SPECIALTY ITEMS LISTED IN THIS TABLE. THE CONTRACTOR SHALL SUBMIT THE SIGNED AND SEALED DESIGN CALCULATIONS AND SHOP DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.



PROJECT #71.02
101 LAUREL ROAD
VOORHEES, NJ 08043
(856) 783-2160

ANTHONY J. VARANO
NJ PE No. 24GE05086900

NJ Certificate of Authorization	
Eng'r. Nos.	24GA03847700
Arch. Nos.	21AC00013400
Date	8/13/26
Checked	AV
Drawn	WP/AD

JEFFREY POTTER, R.A.
Title REGISTERED ARCHITECT License No. NJ21A02015400

Date	Description
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BID ISSUE - 08/13/2026 - NOT FOR CONSTRUCTION

Engineering,
Planning,
Architecture,
Surveying Inc.
ASSOCIATES

STRUCTURAL LEAD SHEET & SCHEDULES
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08043

Job No. 2.20277.25.14

File No. File No.

S0.10

A

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SPECIAL INSPECTION REQUIREMENTS (IBC 2021)

VERIFICATION & INSPECTION		REFERENCE STANDARD	FREQUENCY	
			CONTINUOUS	PERIODIC
<u>OPEN-WEB STEEL JOISTS AND JOIST GIRDERS</u>		IBC 1705.2.3		
1	Installation of open-web steel joists and joist girders.			
	a. End connections -- welding or bolted.	SJI Specifications, Section 2207.1.		X
	b. Bridging -- horizontal or diagonal.			
	1. Standard bridging.	SJI Specifications, Section 2207.1.		X
	2. Bridging that differs from the SJI specifications listed in Section 2207.1.			X
<u>CONCRETE CONSTRUCTION</u>		IBC 1705.3		
1	Inspect reinforcements, including prestressing tendons, and verify placement.	ACI 318, Chapters: 20, 25.2, 25.3, 26.6.1-26.6.3		X
2	Reinforcing bar welding:	AISC 360, Section N6		
	a. Verify weldability of reinforcing bars other than ASTM A706.	AWS D1.4		X
	b. Inspect single-pass fillet welds, maximum 5/16".	ACI 318, Section 26.6.4		X
	c. Inspect all other welds.	ACI 318, Section 26.6.4	X	
3	Inspect anchors cast in concrete.	ACI 318, Section 26.13.3.3		X
4	Inspect anchors post-installed in hardened concrete members.			
	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	ACI 318, Section 26.13.3.2	X	
	b. Mechanical anchors and adhesive anchors not defined in 4.a.	ACI 318, Section 26.13.3		X
5	Verify use of required design mix.	ACI 318, Chapters: 19, 26.4.3, 26.4.4 IBC 1904.1 & 1904.2		X
6	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	ASTM C31, ASTM C172, ACI 318, Section 26.5 & 26.12	X	
7	Inspect concrete and shotcrete placement for proper application techniques.	ACI 318, Section 26.5	X	
8	Verify maintenance of specified curing temperature and techniques.	ACI 318, Section 26.5.3-26.5.5		X
9	Inspect prestressed concrete for:			
	a. Application of prestressing forces.	ACI 318, Section 26.10	X	
	b. Grouting of bonded prestressing tendons.	ACI 318, Section 26.10	X	
10	Inspect erection of precast concrete members.	ACI 318, Section 26.9		X
11	For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for:	ACI 318, Section 26.13.1.3		
	a. Installation of the embedded parts.		X	
	b. Completion of the continuity of reinforcement across joints.	ACI 550.5	X	
	c. Completion of connections in the field.		X	
12	Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	ACI 318, Section 26.13.1.3		X
13	Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	ACI 318, Section 26.11.2		X
14	Inspect formwork for shape, location and dimensions of the concrete member being formed.	ACI 318, Section 26.11.1.2 (b)		X
<u>SOILS</u>		IBC 1705.6		
1	Verify materials below <i>shallow foundations</i> are adequate to achieve the design bearing capacity.			X
2	Verify excavations are extended to proper depth and have reached proper material.			X
3	Perform classification and testing of compacted fill materials.			X
4	During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.		X	
5	Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.			X

SPECIAL INSPECTION REQUIREMENTS (IBC 2021)

VERIFICATION & INSPECTION		REFERENCE STANDARD	FREQUENCY	
			CONTINUOUS	PERIODIC
<u>MASONRY</u>		IBC 1705.4		
1	As masonry construction begins, verify that the following are in compliance:			
a.	Proportions of site-prepared mortar	Art. 2.1, 2.6 A, & 2.6 C		X
b.	Grade & size of prestressing tendons & anchorages	Art. 2.4 B, & 2.4 H		X
c.	Grade, type & size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages	Art. 3.4 & 3.6 A		X
d.	Prestressing technique	Art. 3.6 B		X
e.	Properties of thin-bed mortar for AAC masonry	Art. 2.1 C.1	X (b)	X (c)
f.	Sample panel construction	Art. 1.6 D		X
2	Prior to grouting, verify that the following are in compliance:			
a.	Grout space	Art. 3.2 D & 3.2 F		X
b.	Placement of prestressing tendons and anchorages	Art. 2.4 & 3.6		X
c.	Placement of reinforcement, connectors, and anchor bolts	Art. 3.2 E & 3.4		X
d.	Proportions of site-prepared grout and prestressing grout for bonded tendons	Art. 2.6 B & 2.4 G.1.b		X
3	Verify compliance of the following during construction:			
a.	Materials and procedures with the approved submittals	Art. 1.5		X
b.	Placement of masonry units and mortar joint construction	Art. 3.3 B		X
c.	Size & location of structural members	Art. 3.3 F		X
d.	Type, size, & location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Sec. 1.2.1(e), 6.2.1, & 6.3.1		X
e.	Welding of reinforcement	Sec. 6.1.6.1.2	X	
f.	Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	Art. 1.8 C & 1.8 D		X
g.	Application and measurement of prestressing force	Art. 3.6 B	X	
h.	Placement of grout & prestressing grout for bonded tendons is in compliance	Art. 3.5 & 3.6 C	X	
i.	Placement of AAC masonry units & construction of thin-bed mortar joints	Art. 3.3 B.9 & 3.3 F.1.b	X (b)	X (c)
4	Observe preparation of grout specimens, mortar specimens, and/or prisms	Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4		X
<u>COLD-FORMED STEEL DECK</u>		IBC 1705.2.2		
1	Material verification of cold-formed steel deck:			
a.	Identification markings to conform to ASTM standards in the approved construction documents.	Applicable ASTM standards		X
b.	Manufacturer's certified test reports	Applicable ASTM standards		X
2	Inspection of welding:			
a.	Cold-formed steel deck: - Floor & roof deck welds	AWS D1.3 IBC 1705.2.2		X

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STRUCTURAL SPECIAL INSPECTION TABLES

NEW HOPKINS GYMNASIUM

HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

VARANO TOVINSKY^{LLC}

STRUCTURAL ENGINEERS

PROJECT #171.02
101 LAUREL ROAD
VOORHEES, NJ 08043
(856) 783-2160

ANTHONY J. VARANO
NJ PE No. 24GE05686900

NJ Certificate of Authorization
Eng'g Nos. 24GA28347700
Arch. Nos. 21AC080913400
Date 8/13/2

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STEEL SPECIAL INSPECTION REQUIREMENTS (IBC 2021)

VERIFICATION & INSPECTION		SERVICE	REFERENCE STANDARD	FREQUENCY	-----
INSPECTION OF FABRICATORS			IBC 1704.2.5		
1	Verify fabrication/quality control procedures	In-plant review		Periodic	
STEEL CONSTRUCTION			IBC 1705.2.1		
1	Fabricator and erector quality control program	In-plant self evaluation	AISC 360, Chapter N, Section N2		
a.	Shop welding, high-strength bolting and details		AISC 360, Section N5		
b.	Shop cut and finished surfaces		AISC 360, Section M2		
c.	Shop heating for straightening, cambering and curving		AISC 360, Section M2.1		
d.	Tolerances for shop fabrication		Section 11.2 of the Code of Standard Practice		
e.	Field welding, high-strength bolting and details		AISC 360, Section N5		
f.	Steel deck		Standard for Quality Control and Quality Assurance for Installation of Steel Deck		
g.	Headed steel stud anchor placement & attachment		AISC 360, Section N5.4		
h.	Field cut surfaces		AISC 360, Section M2.2		
i.	Field heating for straightening		AISC 360, Section M2.1		
j.	Tolerances for field erection		Section 11.3 of the Code of Standard Practice		
2	Fabricator and erector documents	In-plant self evaluation	AISC 360, Chapter N, Section N3		
Submittals for steel construction & available documents for steel construction shall conform to AISC 360, Section N3.					
Welder qualification & continuity records		In-plant self evaluation			
3	Inspection of fabricators and fabrication procedures	In-plant review	IBC 1704.2.5, AISC 360, Section N6		
Inspection of fabricators and fabrication procedures shall be performed by the Quality Insurance Inspector (special inspector) and shall conform to IBC Sections 1704.2.5 & 1704.2.5.1.					
4	Inspection & nondestructive testing personnel		AISC 360, Chapter N, Section N4		
Quality Control Inspector (fabricator or erector) Qualifications, Quality Assurance Inspector (special inspector) Qualifications, and Nondestructive Testing Personnel (inspection agency personnel) Qualifications shall conform to AISC 360, Section N4.					
5	Inspection tasks prior to welding		AISC 360, Chapter N, Table N5.4-1		
a.	Welder qualification records & continuity records	Shop & field inspection		Continuous	
b.	Welding procedure specifications (WPSs) available	Shop & field inspection		Continuous	
c.	Manufacturer certifications for welding consumables available	Shop & field inspection		Continuous	
d.	Material identification (type/grade)	Shop & field inspection		Periodic	
e.	Welder identification system*	Shop & field inspection		Periodic	
f.	Fit-up groove welds (including joint geometry) - Joint preparations - Dimensions (alignment, root opening, root face, bevel) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality & location) - Backing type & fit (if applicable)	Shop & field inspection		Periodic	
g.	Fit-up of CJP welds of HSS, T-, Y-, & K-joints without backing (including joint geometry) - Joint preparations - Dimensions (alignment, root opening, root face, bevel) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality & location)	Shop & field inspection		Continuous	
h.	Configuration & finish of access holes	Shop & field inspection		Periodic	
i.	Fit-up of fillet welds - Dimensions (alignment, gaps at root) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality & location)	Shop & field inspection		Periodic	
j.	Check welding equipment	Shop & field inspection		Periodic	
* - Fabricator or erector, as applicable shall maintain a system by which a welder who has welded a joint or member can be identified. - Die stamping of members subjected to fatigue shall be prohibited unless approved by the engineer of record.					
6	Inspection tasks during welding		AISC 360, Chapter N, Table N5.4-2		
a.	Control & handling of welding consumables - Packaging - Exposure control	Shop & field inspection		Periodic	
b.	No welding over cracked tack welds	Shop & field inspection		Periodic	
c.	Environmental conditions - Wind speed within limits - Precipitation & temperature	Shop & field inspection		Periodic	
d.	WPS followed - Setting on welding equipment - Travel speed - Selected welding materials - Shielding gas type/flow rate - Preheat applied - Interpass temperature maintained (min./max.) - Proper position (F, V, H, OH)	Shop & field inspection		Periodic	
e.	Welding techniques - Interpass & final cleaning - Each pass within profile limitations - Each pass meets quality requirements	Shop & field inspection		Periodic	
f.	Placement & installation of steel headed stud anchors	Shop & field inspection		Continuous	

STEEL SPECIAL INSPECTION REQUIREMENTS (IBC 2021) (CONT'D)

VERIFICATION & INSPECTION		SERVICE	REFERENCE STANDARD	FREQUENCY	-----
7	Inspection tasks after welding		AISC 360, Chapter N, Table N5.4-3		
a.	Welds cleaned	Shop & field inspection		Periodic	
b.	Size, length, & location of welds	Shop & field inspection		Continuous	
c.	Welds meet visual acceptance criteria - Crack prohibition - Weld/base-metal fusion - Crater cross section - Weld profiles - Weld size - Undercut - Porosity	Shop & field inspection		Continuous	
d.	Arc strikes	Shop & field inspection		Continuous	
e.	k-area ^[a]	Shop & field inspection		Continuous	
f.	Weld access holes in rolled heavy shapes & built-up heavy shapes ^[a]	Shop & field inspection		Continuous	
g.	Backing removed and weld tabs removed (if required)	Shop & field inspection		Continuous	
h.	Repair activities	Shop & field inspection		Continuous	
i.	Document acceptance or rejection of welded joint or member ^[a]	Shop & field inspection		Continuous	
j.	No prohibited welds have been added without the approval of the EOR	Shop & field inspection		Periodic	
^[a] When welding of doubler plates, continuity plates, or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld. ^[b] After rolled heavy shapes (see AISC Sec. A3.1d) and built-up heavy shapes (see AISC Sec. A3.1e) are welded, visually inspect the weld access hole for cracks. ^[c] Die stamping of members subjected to fatigue shall be prohibited unless approved by the EOR.					
8	Inspection tasks prior to bolting		AISC 360, Chapter N, Table N5.6-1		
a.	Manufacturer's certifications available for fastener materials	Shop & field inspection		Continuous	
b.	Fasteners marked in accordance with ASTM requirements	Shop & field inspection		Periodic	
c.	Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	Shop & field inspection		Periodic	
d.	Correct bolting procedure selected for joint detail	Shop & field inspection		Periodic	
e.	Connecting elements, including the appropriate faying surface condition & hole penetration, if specified, meet applicable requirements	Shop & field inspection		Periodic	
f.	Pre-installation verification testing by installation personnel observed and documented for fastener assemblies & methods used	Shop & field inspection		Continuous	
g.	Protected storage provided for bolts, nuts, washers, & other fastener components	Shop & field inspection		Periodic	
9	Inspection tasks during bolting		AISC 360, Chapter N, Table N5.6-2		
a.	Fastener assemblies placed in all holes, & washers & nuts are positioned as required	Shop & field inspection		Periodic	
b.	Joint brought to the snug-tight condition prior to the pretensioning operation	Shop & field inspection		Periodic	
c.	Fastener component not turned by the wrench prevented from rotating	Shop & field inspection		Periodic	
d.	Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	Shop & field inspection		Periodic	
10	Inspection tasks after bolting		AISC 360, Chapter N, Table N5.6-3		
a.	Document acceptance or rejection of bolted connections	Shop & field inspection		Continuous	
11	Nonconforming materials & workmanship		AISC 360, Chapter N, Section N7		
Identification & rejection of materials or workmanship that is not in conformance with the construction documents shall be permitted at any time during the progress of work. Nonconforming material & workmanship shall be brought to the immediate attention of the GC and the fabricator or erector, as applicable. Nonconforming material or workmanship shall be brought into conformance, or made suitable for its intended purpose as determined by the Structural Engineer of Record. Structural repairs shall be reviewed & approved by the AHJ.					

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ASSOCIATES

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STRUCTURAL SPECIAL INSPECTION TABLES

NEW HOPKINS GYMNASIUM

HADDONFIELD BOE

HADDONFIELD MEMORIAL HIGH SCHOOL

401 KINGS HWY E, HADDONFIELD, NJ 08033

ANTHONY J. VARANO

NJ PE No. 24GE05086900

Job No. 2.20277.25.14

File No. File No.

S0.30

NJ Certificate of Authorization

Eng'r. Nos. 24GA28347700

Arch. Nos. 21AC00013400

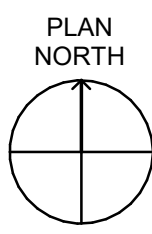
Date 8/13/26

Checked AV

Drawn WP/AD

JEFFREY POTTER, R.A.

Title REGISTERED ARCHITECT License No. NJ21A02015400



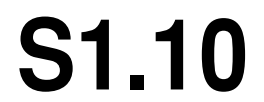
THICKENED SLAB SCHEDULE

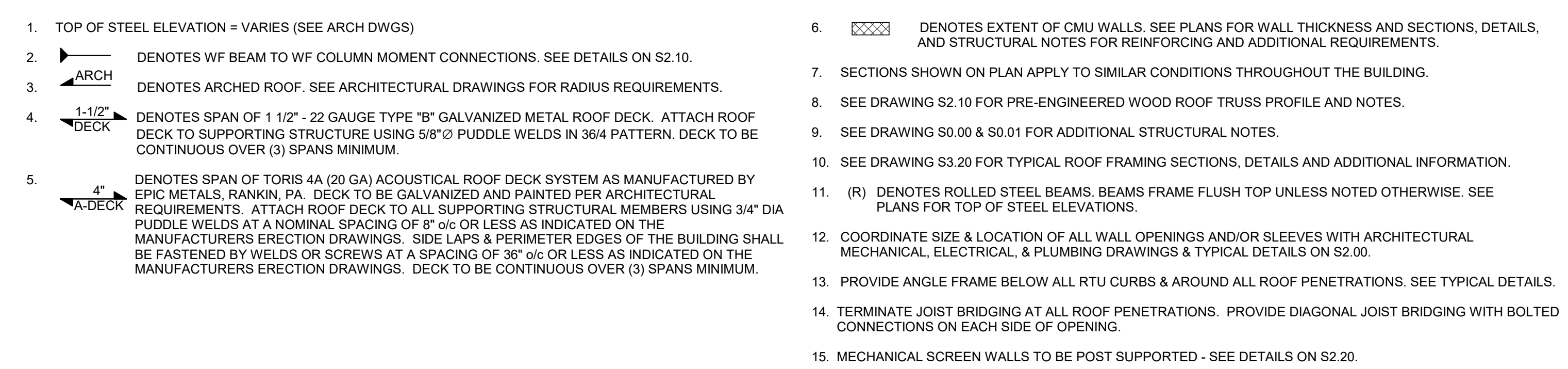
THICKENED SLAB SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
TS-1	2'-0" x 1'-0" CONT	(3) #4 BOT LONG WAY #4 @ 12" o/c BOT SHORT WAY	

THICKENED SLAB SCHEDULE NOTES:

1. ALL THICKENED SLABS HAVE BEEN DESIGNED USING AN ALLOWABLE BEARING PRESSURE OF 2,000 PSF.
2. SEE DWG S0.00 FOR ADDITIONAL CONCRETE AND FOUNDATION NOTES AND REQUIREMENTS.

- CONTRACTOR NOTE PER NJUCC BULLETIN NO. 02-2:**
THE CONTRACTOR SHALL BE RESPONSIBLE TO
COORDINATE THE NEED TO USE FOUNDATION REBAR
AS A GROUNDING ELECTRODE SYSTEM AND SHALL BE
RESPONSIBLE FOR INSTALLING THE BONDING CLAMP
PRIOR TO PLACEMENT OF THE CONCRETE.





A TYPICAL COLUMN FOOTING WITHOUT PIER DETAIL

TYPICAL BASE PLATE DETAIL

BB TYPICAL BASE PLATE DETAIL

 TYPICAL ANCHOR ROD DETAIL

AT WALL CORNERS

AT WALL INTERSECTIONS

TYPICAL DETAIL AT UTILITY PIPES UNDER WALL FOOTINGS

TYPICAL STEP FOOTING DETAIL

TYPICAL TURNED DOWN CONCRETE SLAB DETAIL

TYPICAL FOUNDATION ZONE OF INFLUENCE

TYPICAL DETAIL AT UTILITY PIPES ADJACENT TO WALL FOOTINGS

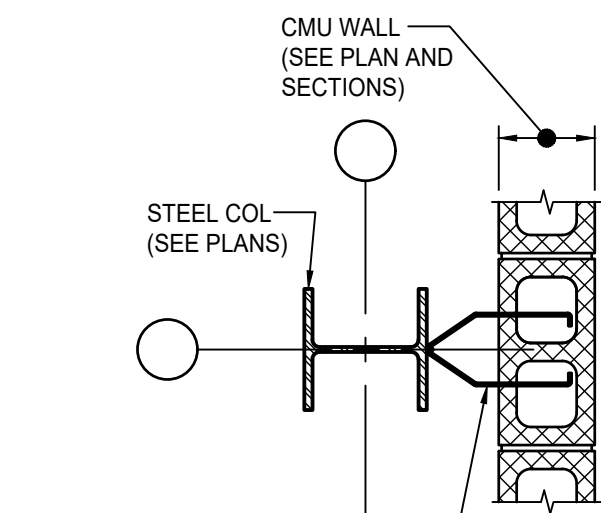
TYPICAL COLUMN FOOTING WITH PIER DETAIL

 TYPICAL CONTROL JOINT SLAB ON GRADE
SCALE: NOT TO SCALE

 TYPICAL CONSTRUCTION JOINT SLAB ON GRADE

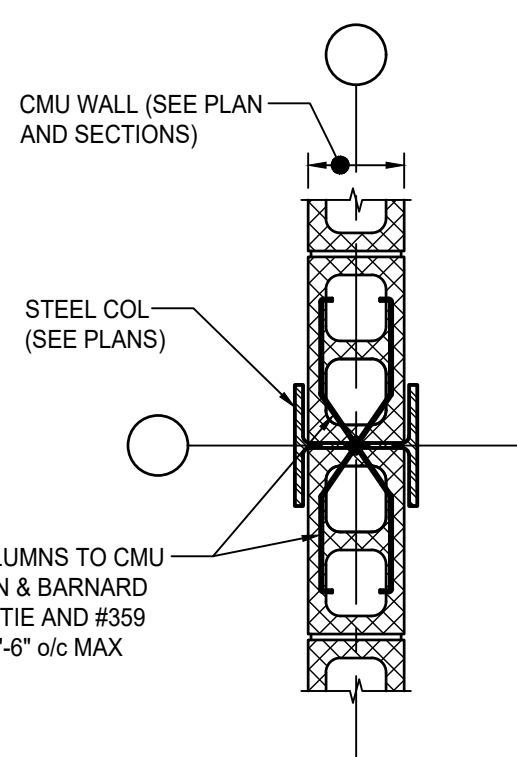
TYPICAL THICKENED SLAB DETAIL AT CMU PARTITION WALL

TYPICAL CONCRETE PIER DETAIL



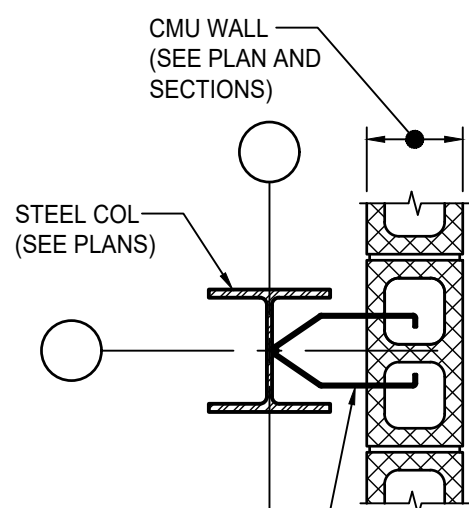
ATTACH STEEL COLUMNS TO CMU
WALLS w/ HOHMANN & BARNARD
#301 COLUMN WEB TIE AND #359
WELD-ON TIES AT 2'-6" o/c MAX

PLAN VIEW - STEEL COLUMN



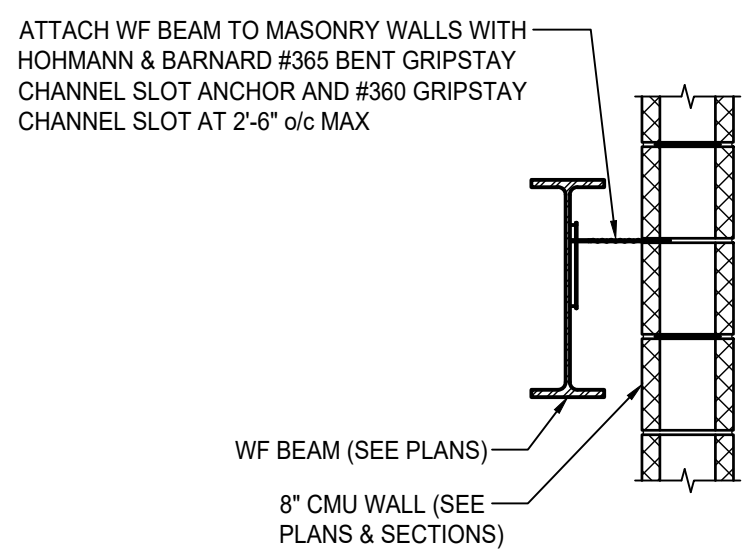
ATTACH STEEL COLUMNS TO C
WALLS w/ HOHMANN & BARNAR
#301 COLUMN WEB TIE AND #35
WELD-ON TIES AT 2'-6" o/c MAX

PLAN VIEW - STEEL COLUMN



ATTACH STEEL COLUMNS TO CMU
WALLS w/ HOHMANN & BARNARD
#301 COLUMN WEB TIE AND #359
WELD-ON TIES AT 2'-6" o/c MAX

PLAN VIEW - STEEL COLUMN

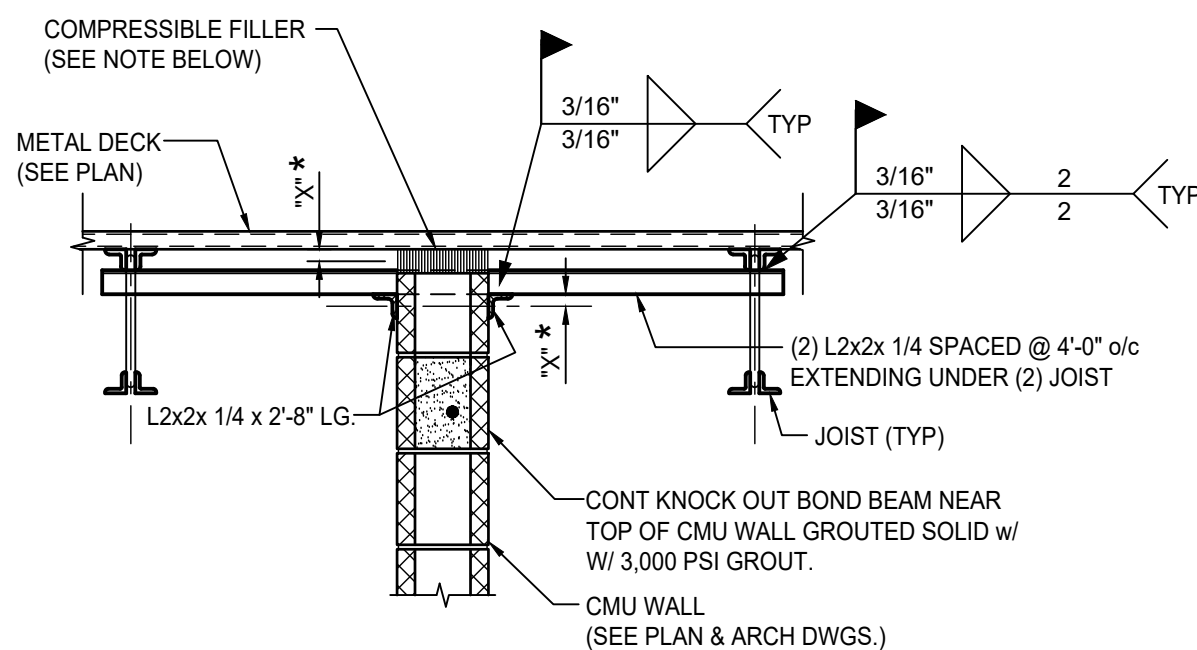


ATTACH WF BEAM TO MASONRY WALLS WITH
HOHMANN & BARNARD #365 BENT GRIPSTAY
CHANNEL SLOT ANCHOR AND #360 GRIPSTAY
CHANNEL SLOT AT 2'-6" o/c MAX

SECTION - STEEL BEAM

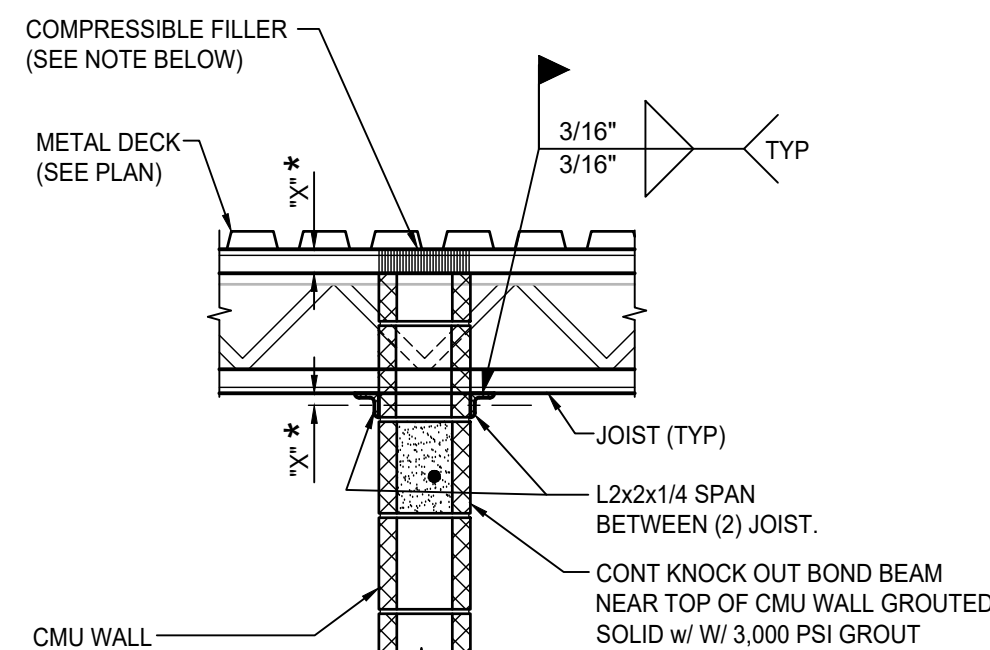


(A) TYPICAL CMU WALL ATTACHMENT TO STEEL BEAM & COLUMN



* "X" CLEAR DIMENSION SHALL BE AS REQUIRED BY JOIST DEFLECTION BUT NOT LESS THAN 2". GAP TO BE FILLED WITH COMPRESSABLE FILLER.

WALL PARALLEL TO STEEL JOIST FRAMING



*"X" CLEAR DIMENSION SHALL BE AS REQUIRED BY JOIST DEFLECTION BUT NOT LESS THAN 2". GAP TO BE FILLED WITH COMPRESSIBLE FILLER.

NOTE:
SPACE AT A MAXIMUM OF 8'-0" o/c USING A
MINIMUM OF (2) PER WALL IN ANY ONE DIRECTION.

WALL PERPENDICULAR TO STEEL JOIST FRAMING

TYPICAL NON-LOAD BEARING CMU WALL BRACING DETAILS

JEFFREY POTTER, R.A.

Date	Description
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**Engineering,
Planning,
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LAN ASSOCIATES

ASSOCIATES I
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TYPICAL MASONRY DETAILS

NEW HOPKINS GYMNASIUM

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HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E. HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

File No.	File No.
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S2.11

PROJECT #171.02
101 LAUREL ROAD
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(856) 783-2160

ANTHONY J. VARANO
NJ PE No. 24GE0508690

JEFFREY POTTER, R.A.

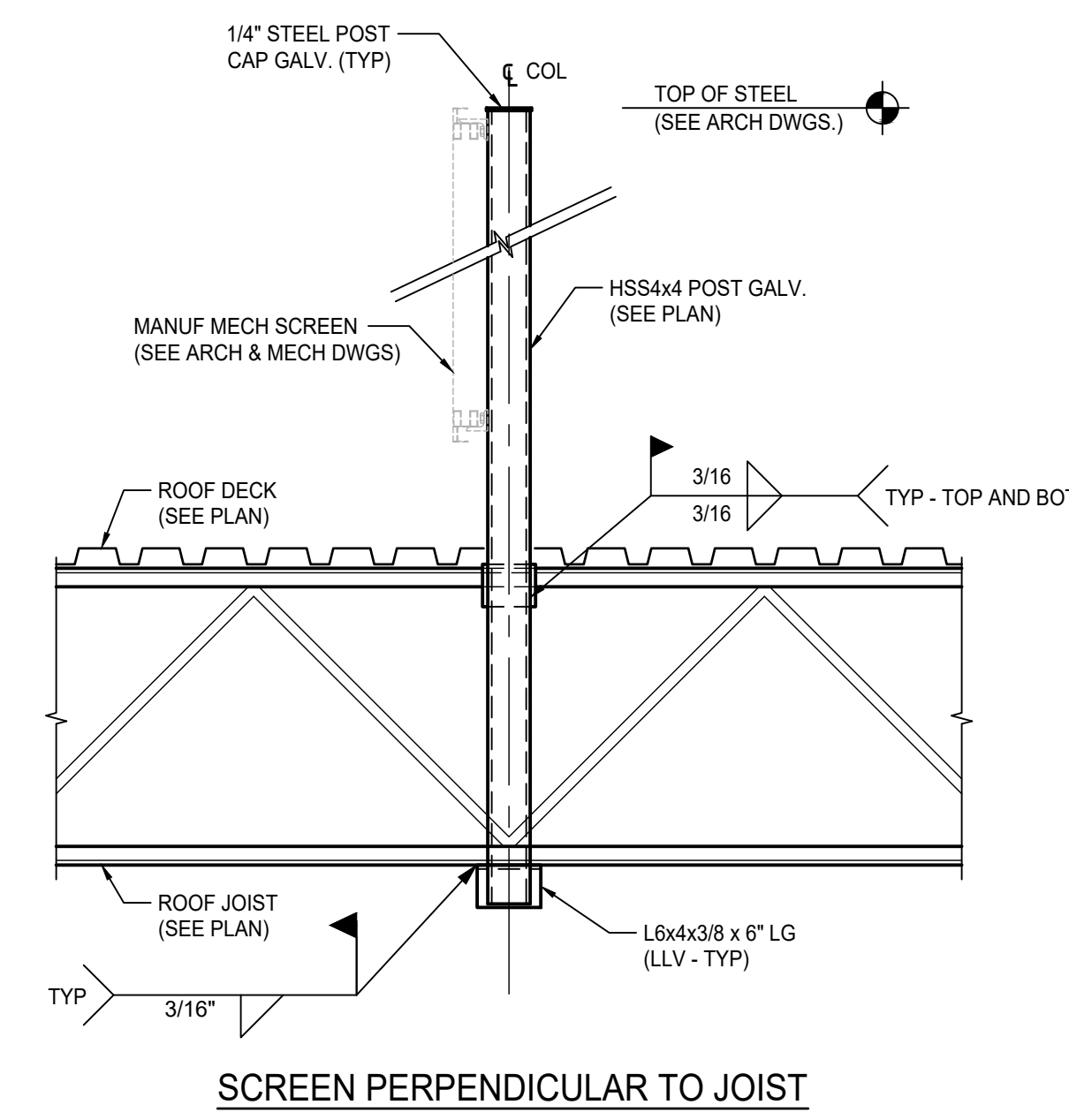
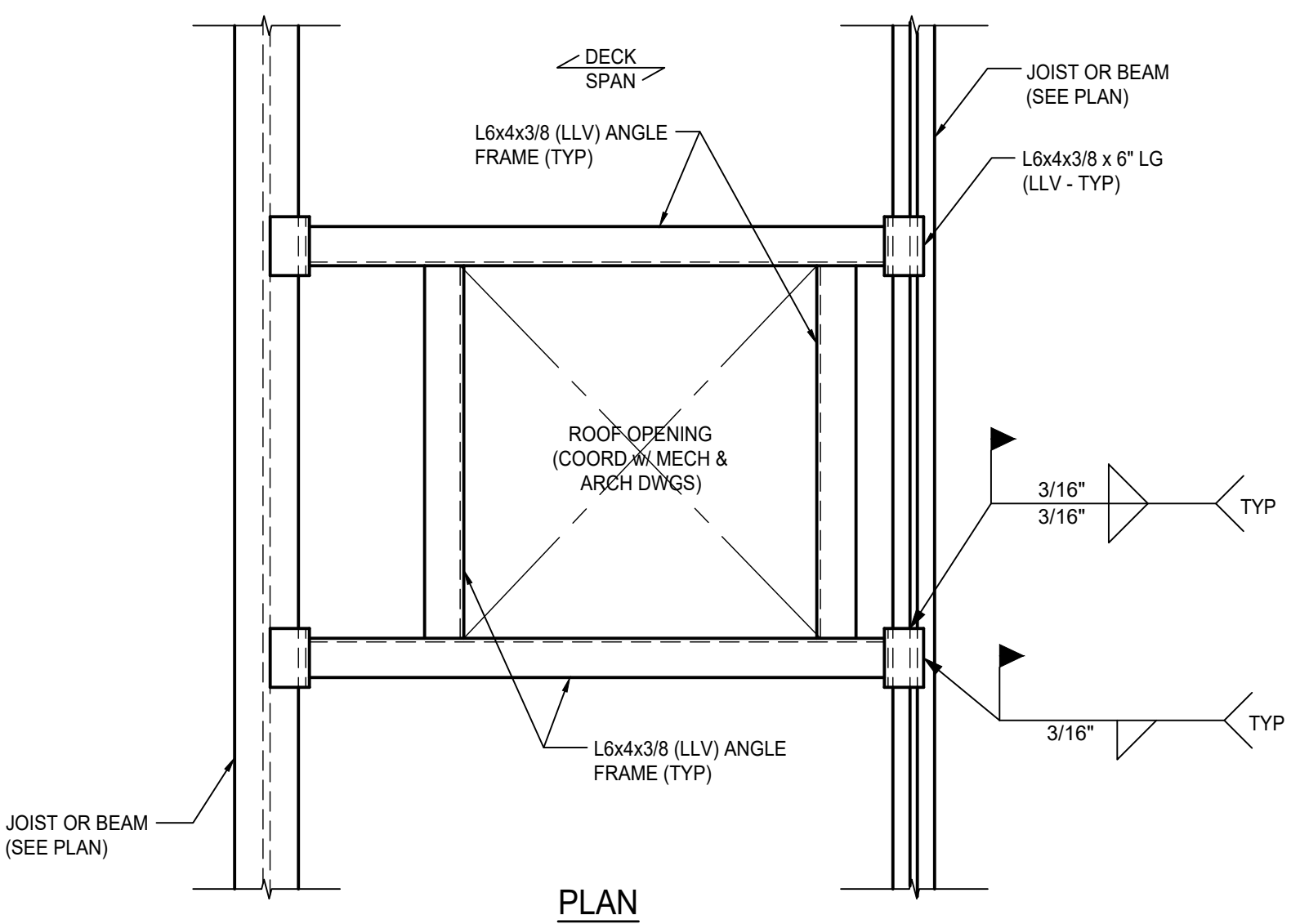
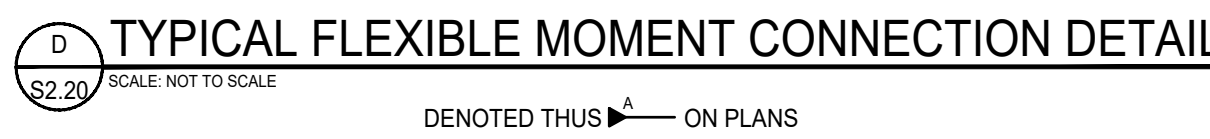
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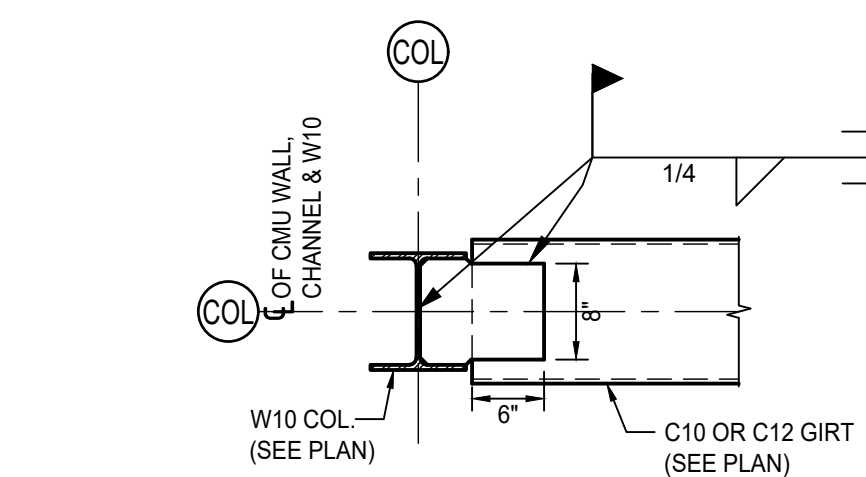
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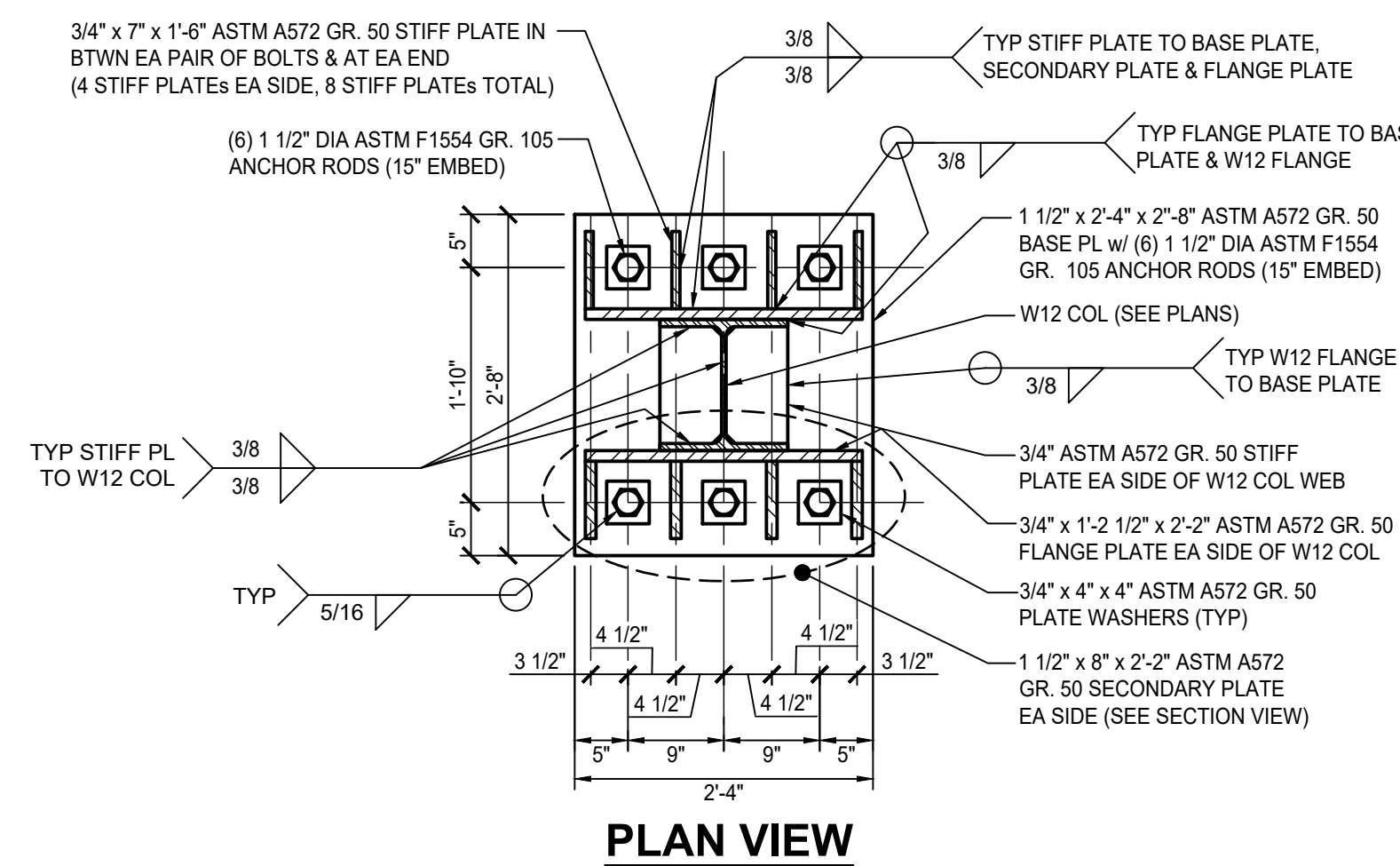
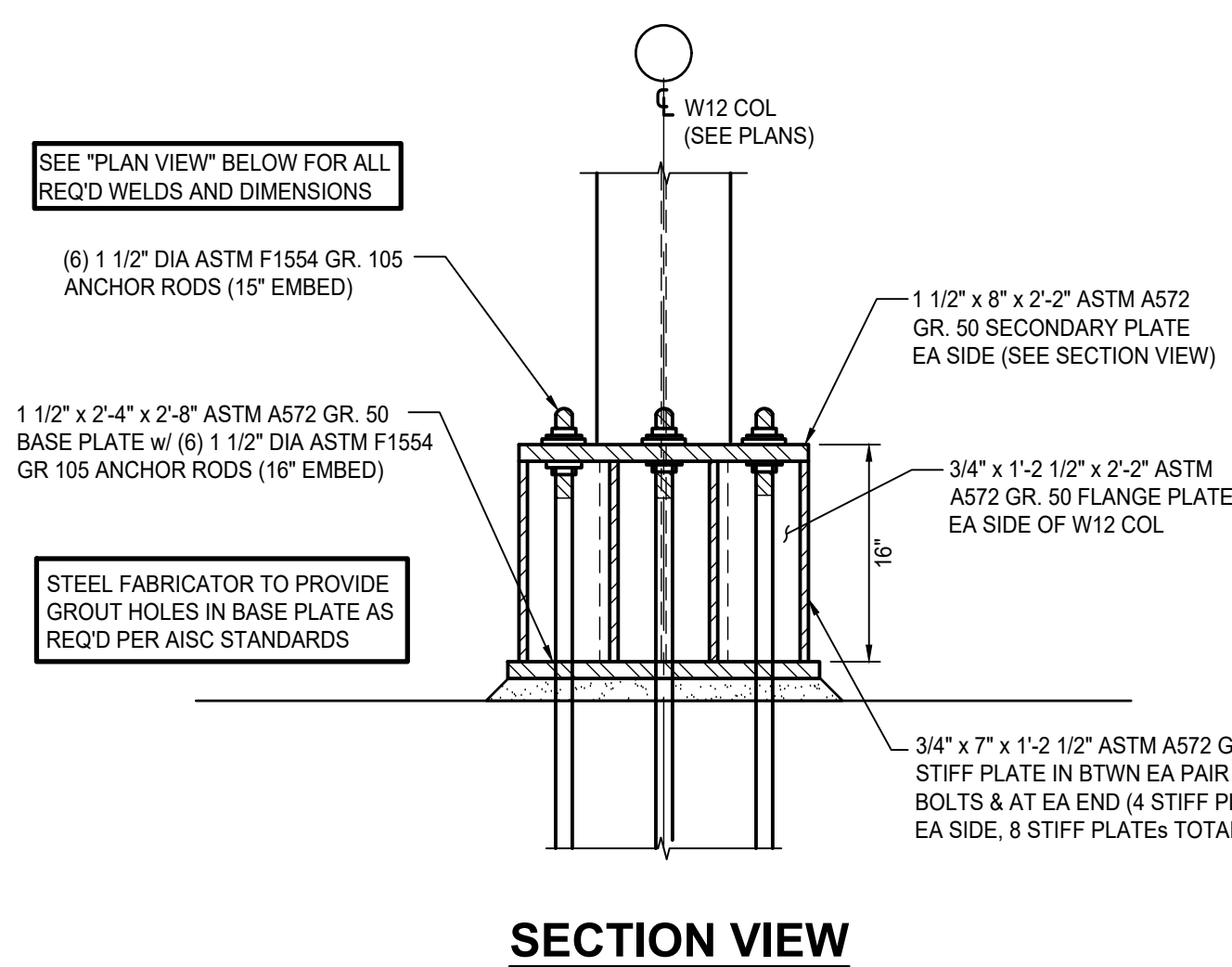
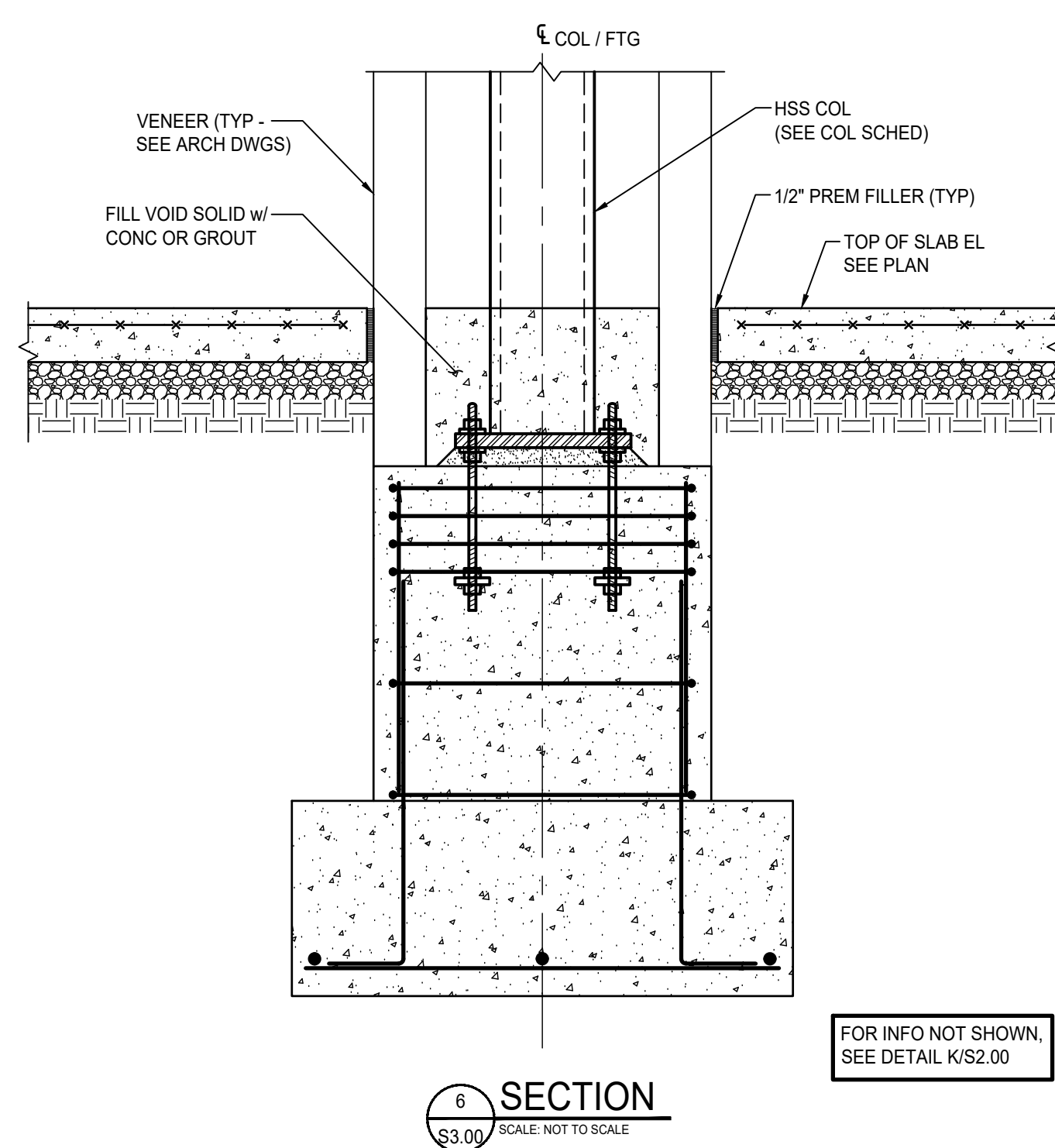
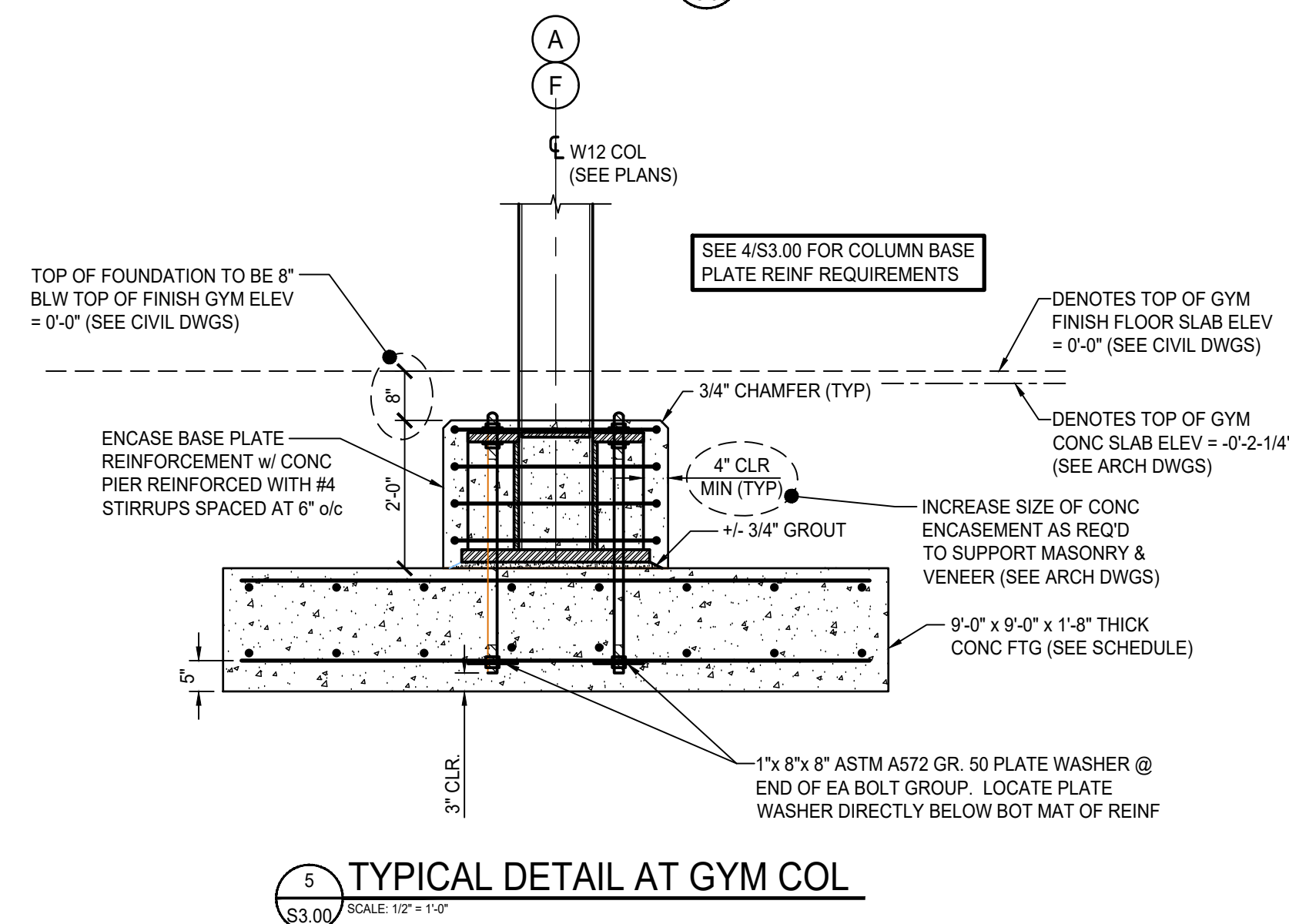
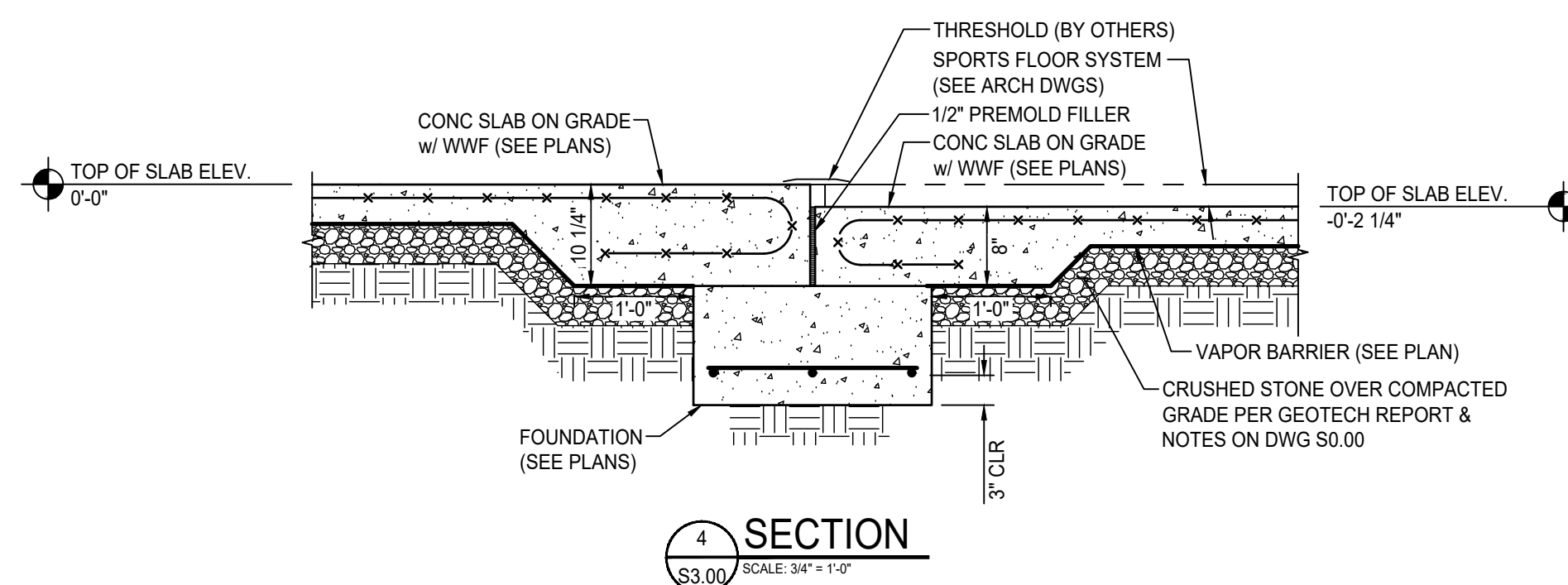
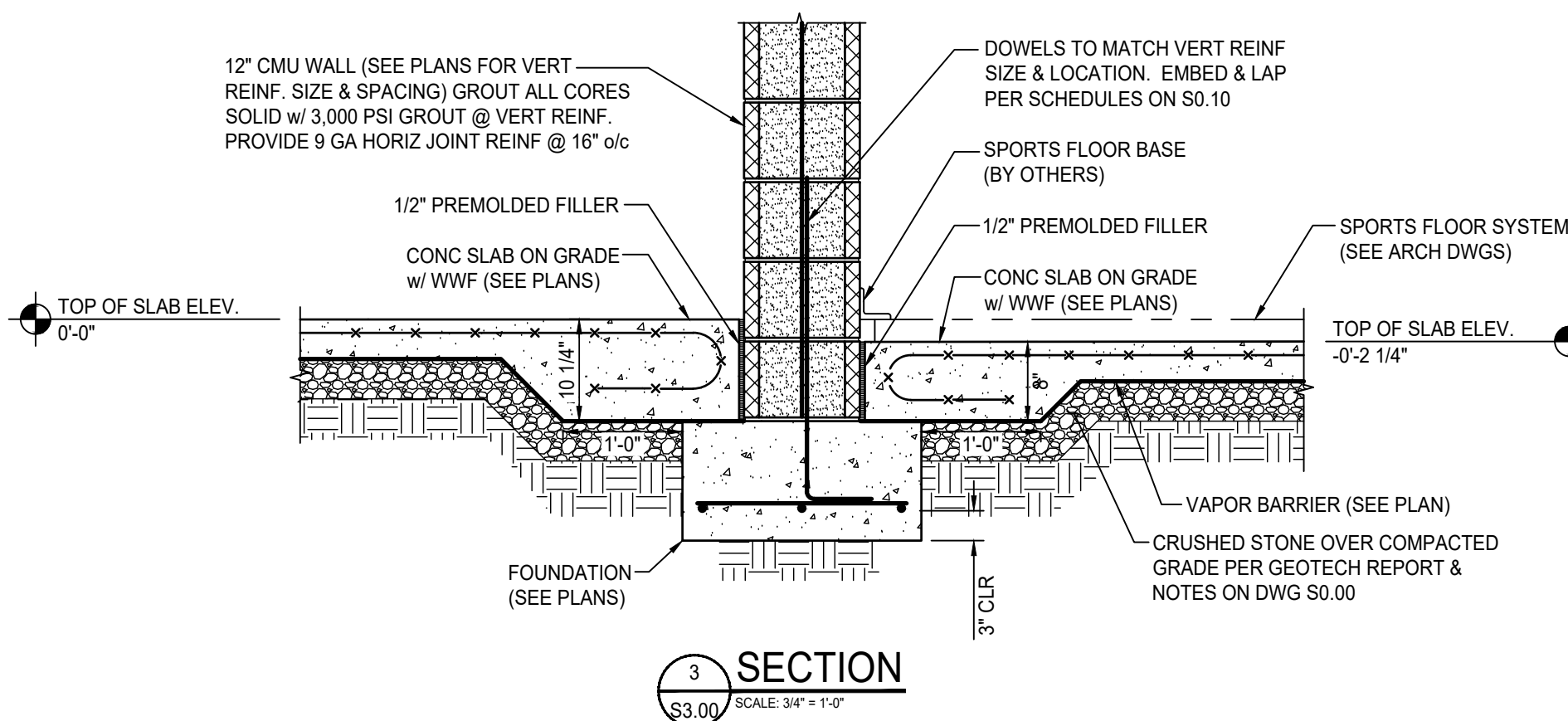
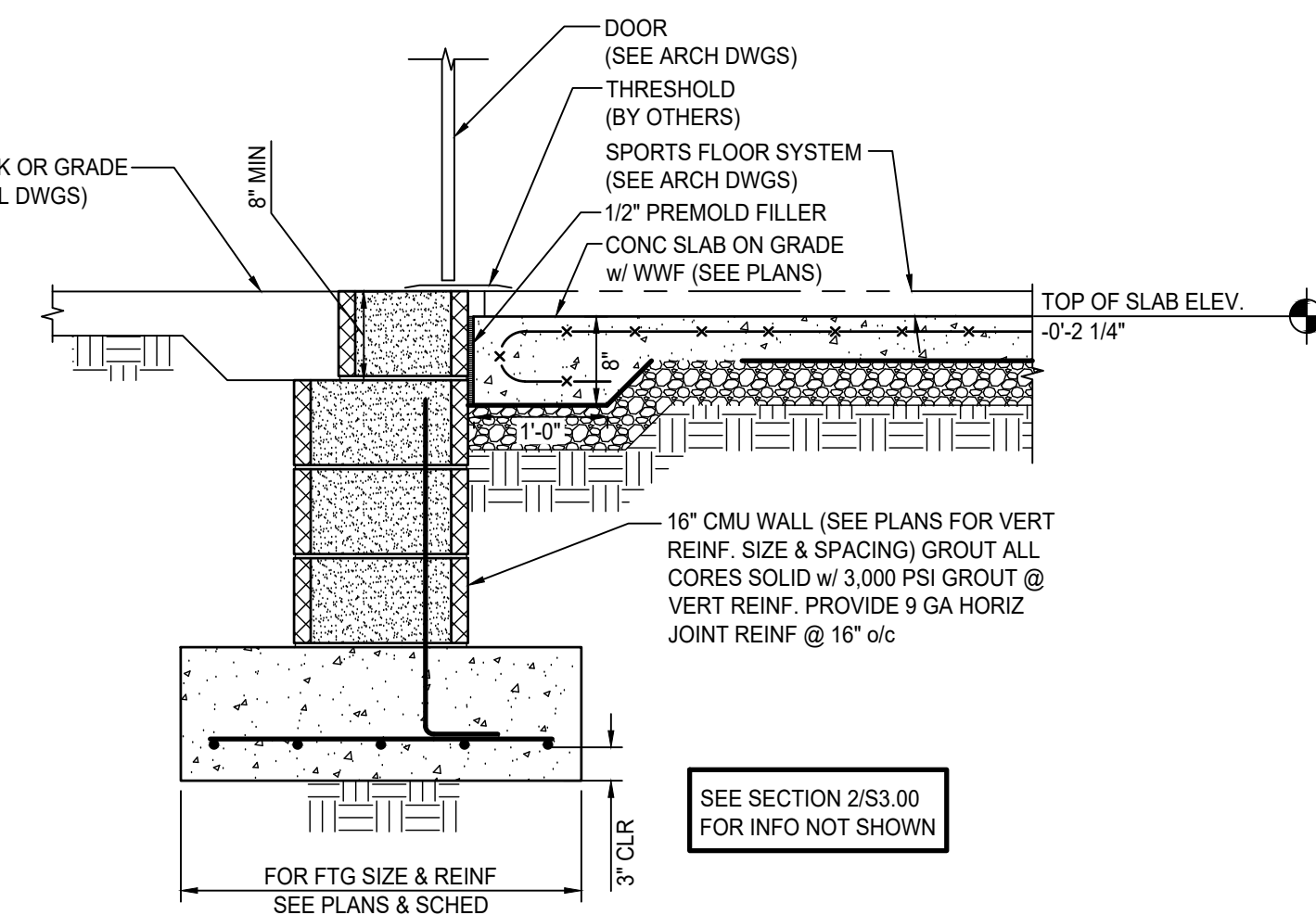
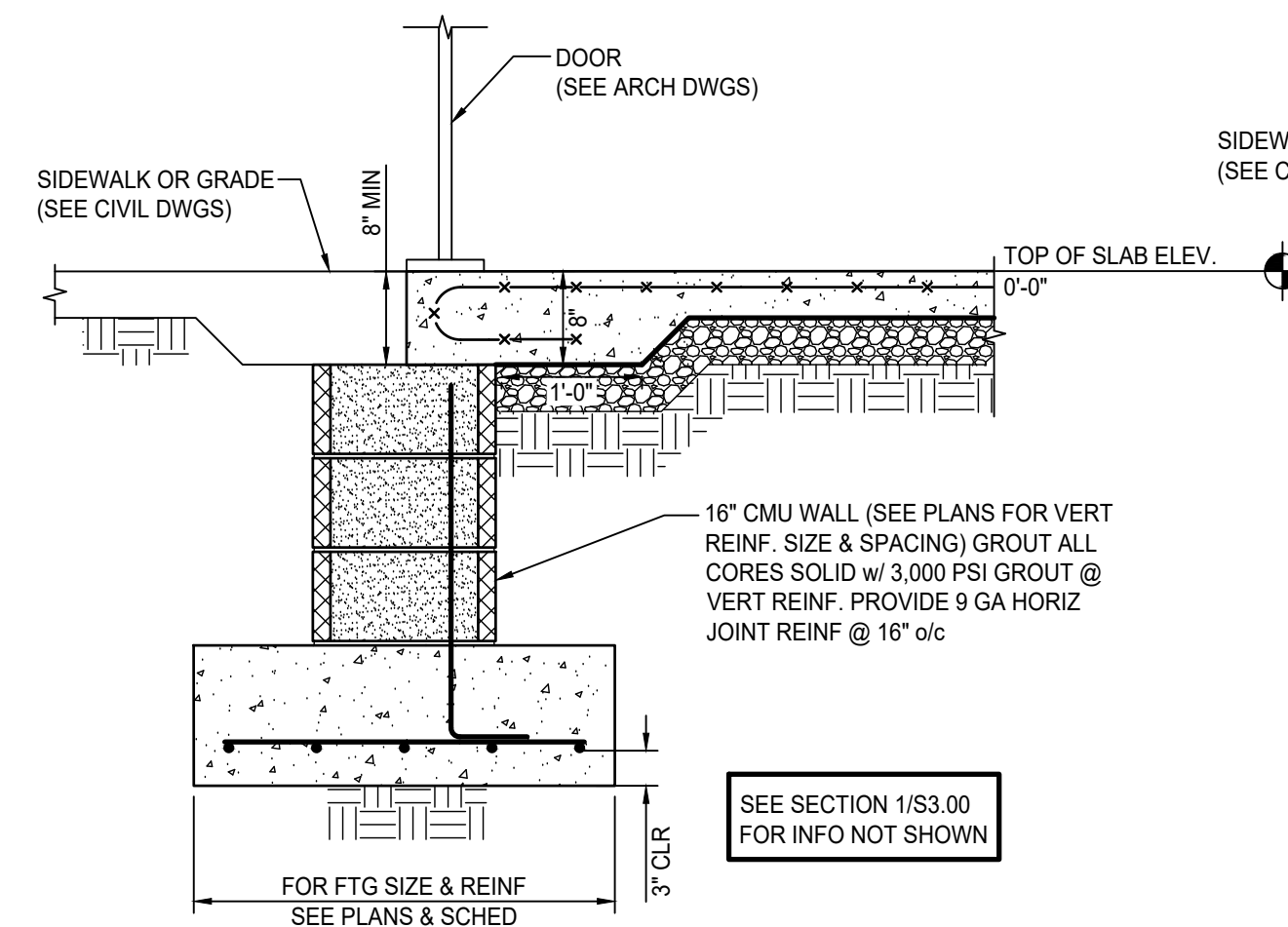
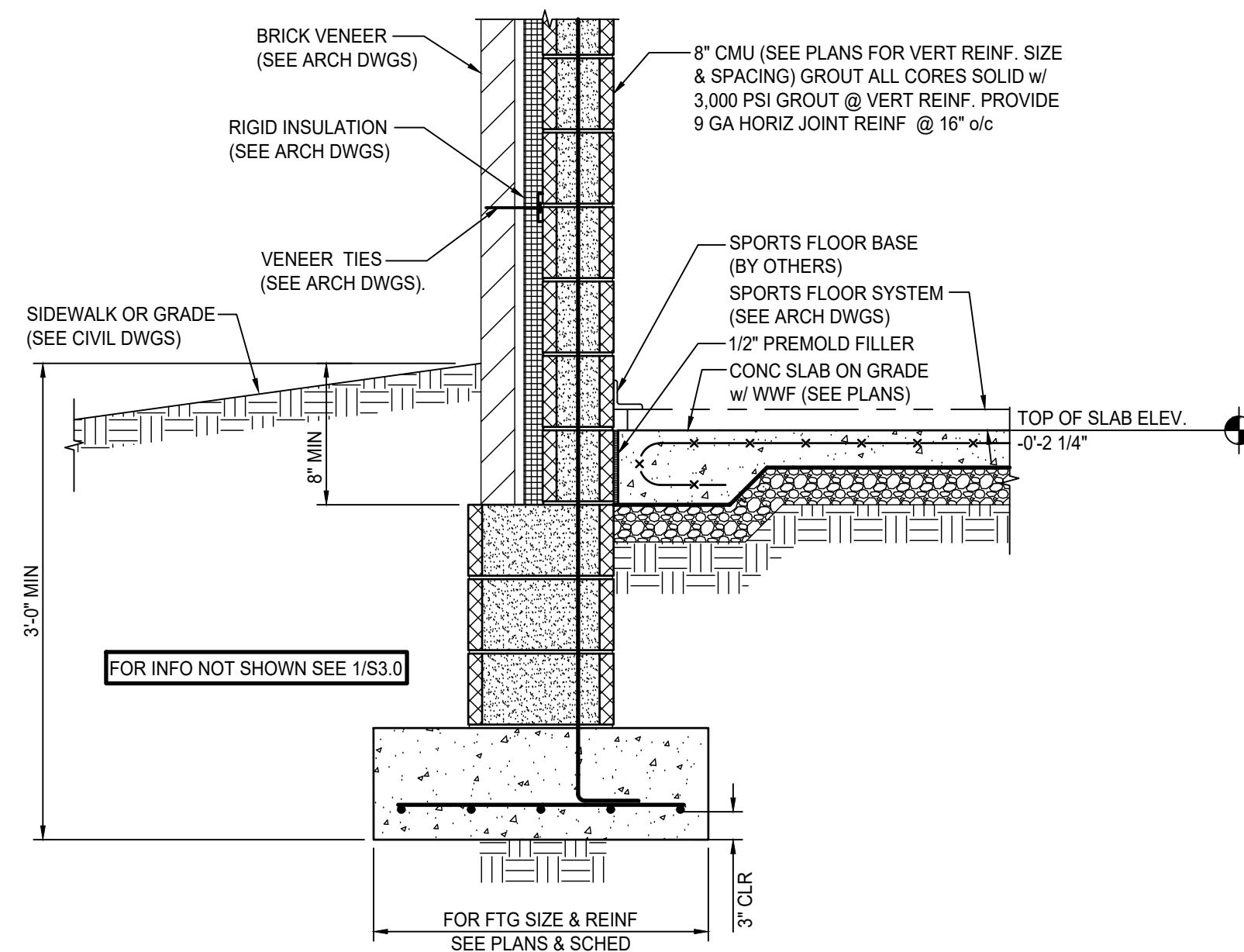
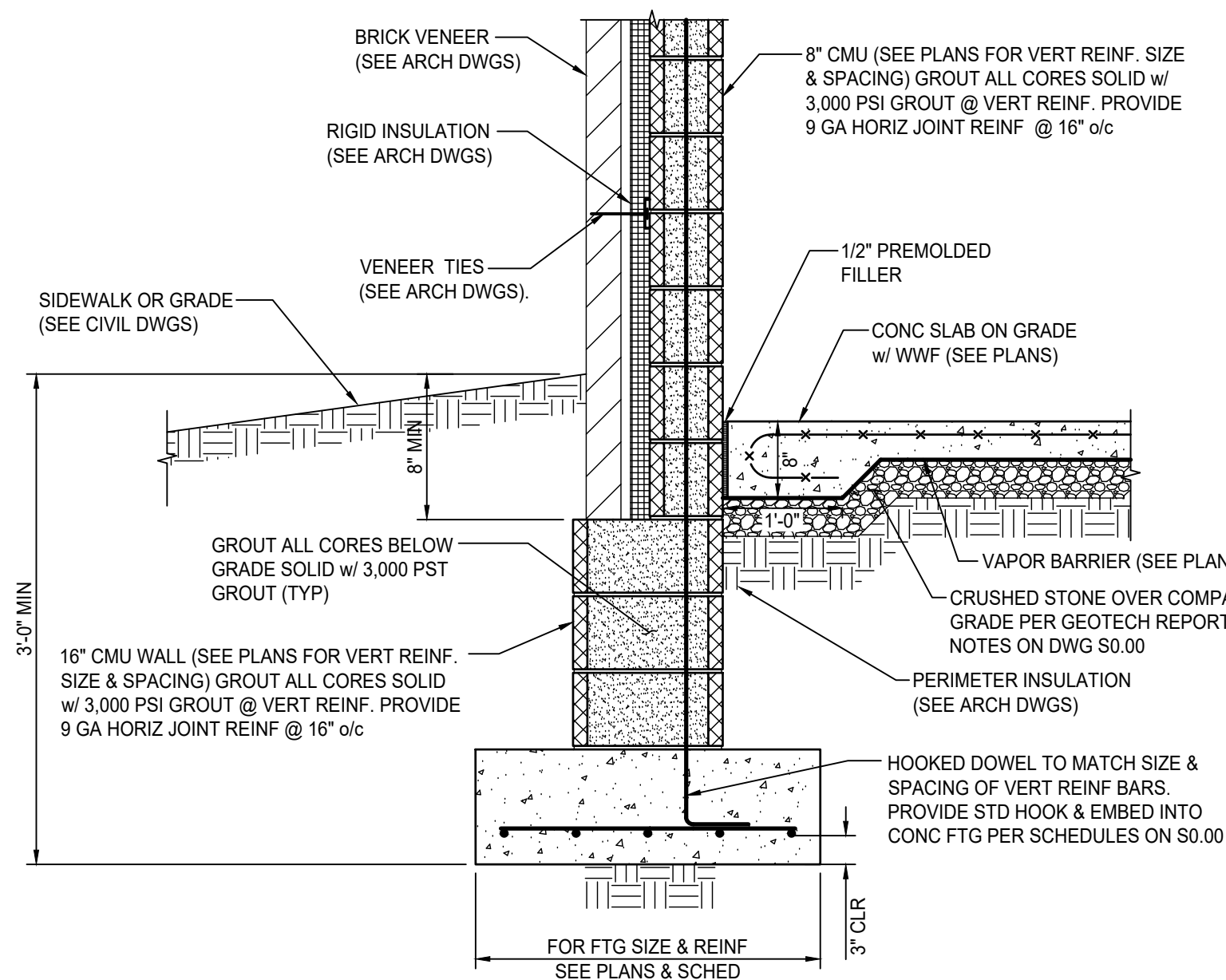
 **VARANO
TOVINSKY**
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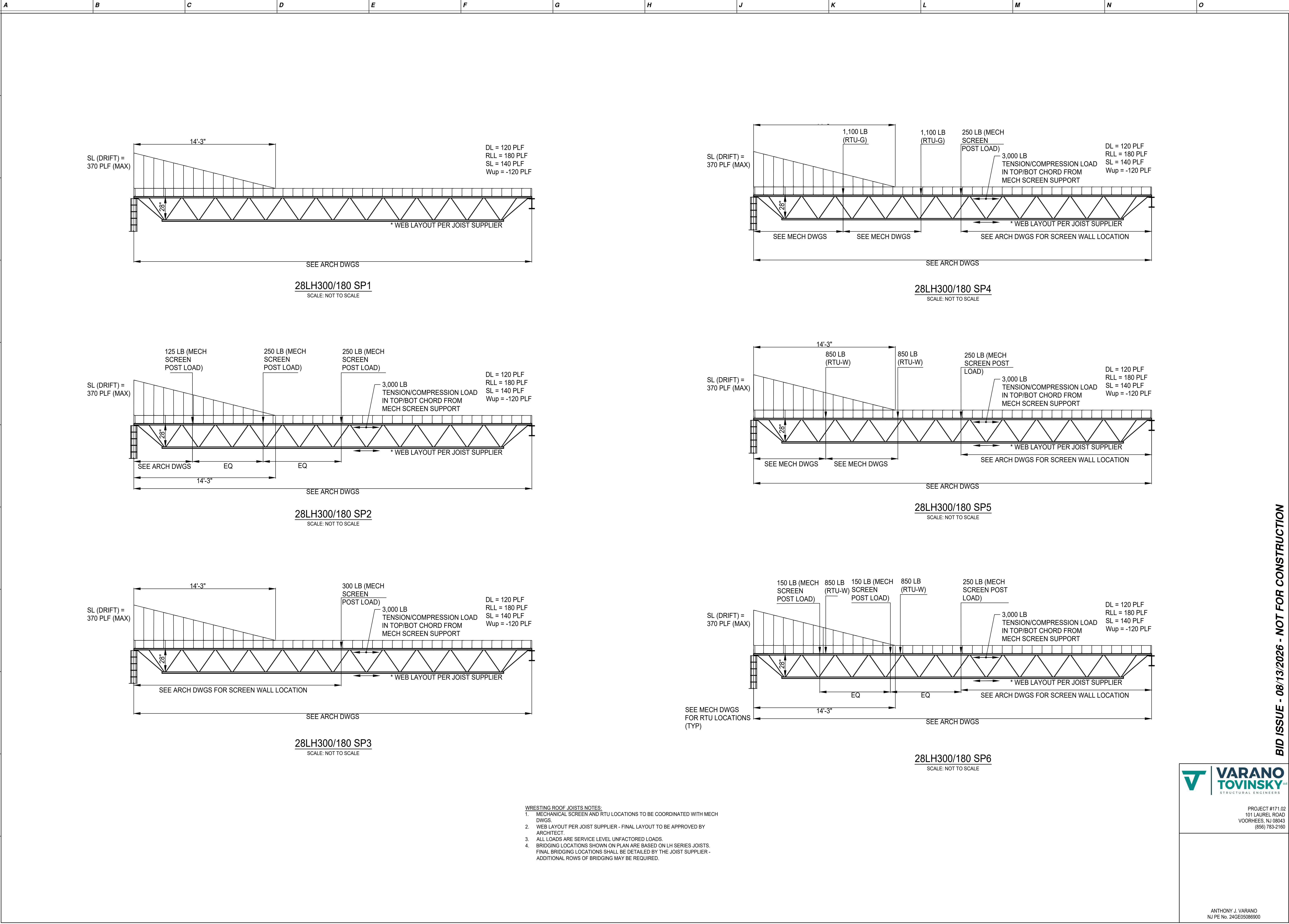








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WRESTLING ROOF JOISTS NOTES:
1. MECHANICAL SCREEN AND RTU LOCATIONS TO BE COORDINATED WITH MECH DWGS.
2. WEB LAYOUT PER JOIST SUPPLIER - FINAL LAYOUT TO BE APPROVED BY ARCHITECT.
3. ALL LOADS ARE SERVICE LEVEL UNFACTORED LOADS.
4. BRIDGING LOCATIONS SHOWN ON PLAN ARE BASED ON LH SERIES JOISTS. FINAL BRIDGING LOCATIONS SHALL BE DETAILED BY THE JOIST SUPPLIER - ADDITIONAL ROWS OF BRIDGING MAY BE REQUIRED.



PROJECT #171.02
101 LAUREL ROAD
VOORHEES, NJ 08043
(856) 783-2160

ANTHONY J. VARANO
NJ PE No. 24GE05086900

NJ Certificate of Authorization	
Eng'r. Nos.	24GA2847700
Arch. Nos.	21AC00012400
Date	8/13/26
Checked	AV
Drawn	WP/AD

JEFFREY POTTER, R.A.

Title REGISTERED ARCHITECT License No. NJ21A02015400

Date	Description
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Engineering,
Planning,
Architecture,
Surveying Inc.

LAN
ASSOCIATES

1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

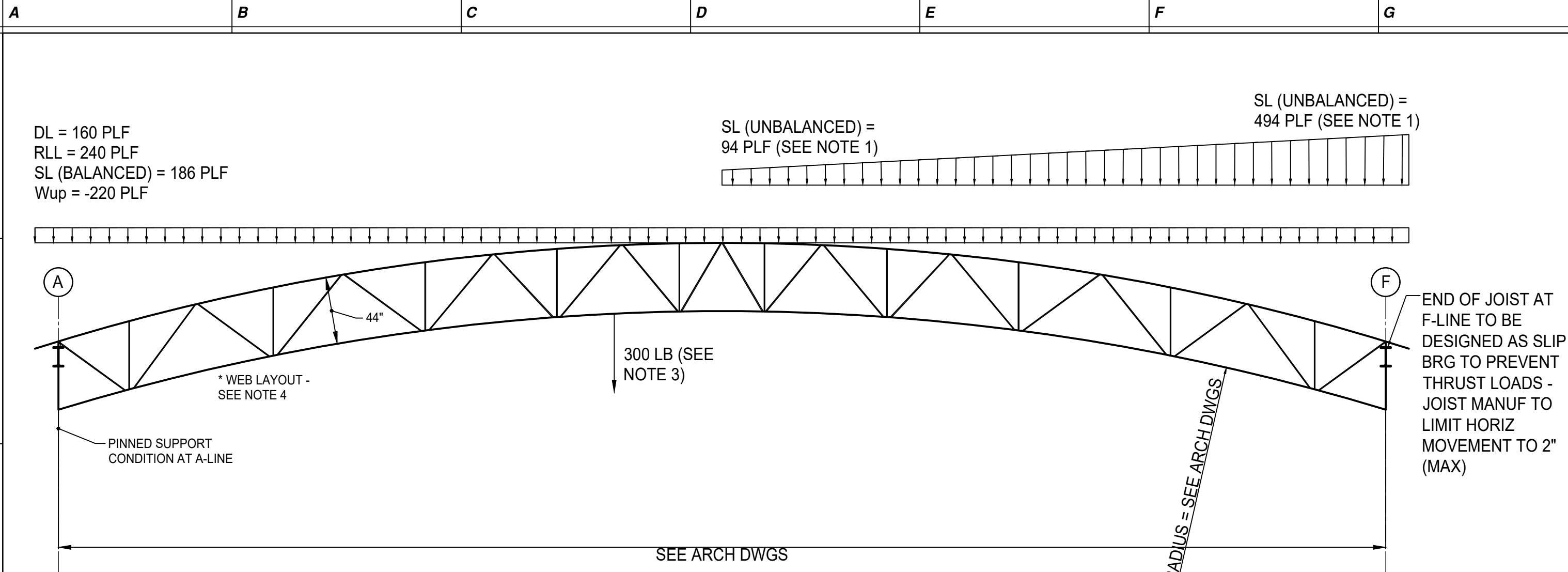
WRESTLING ROOF JOISTS
NEW HOPKINS GYMNASIUM

HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

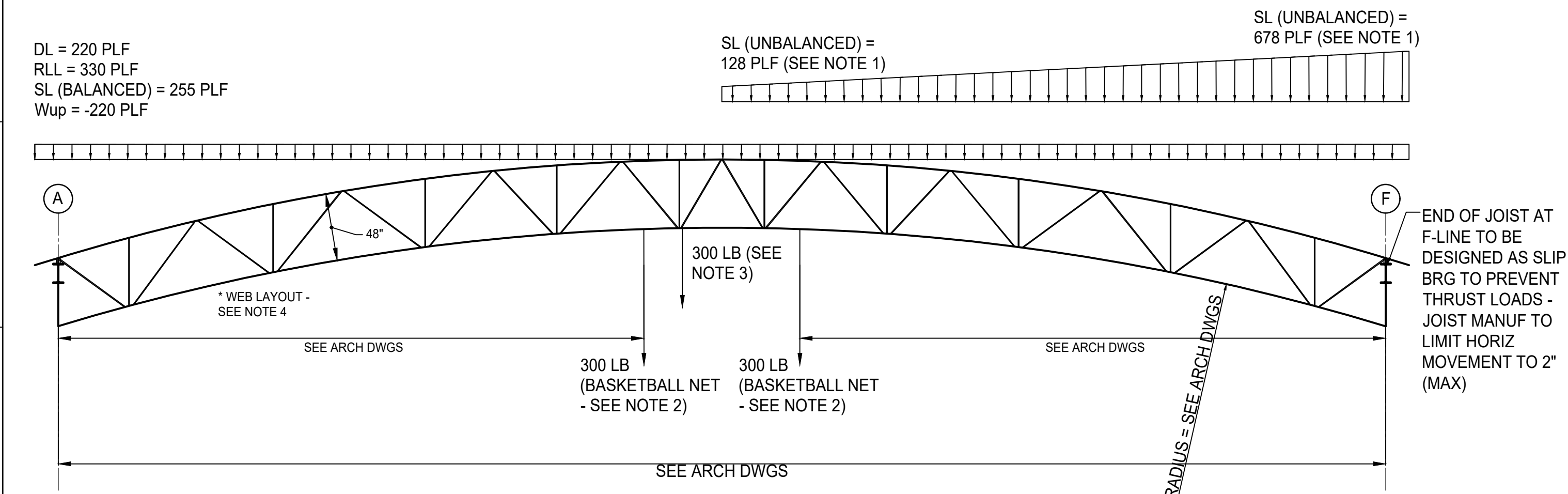
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File No.	File No.

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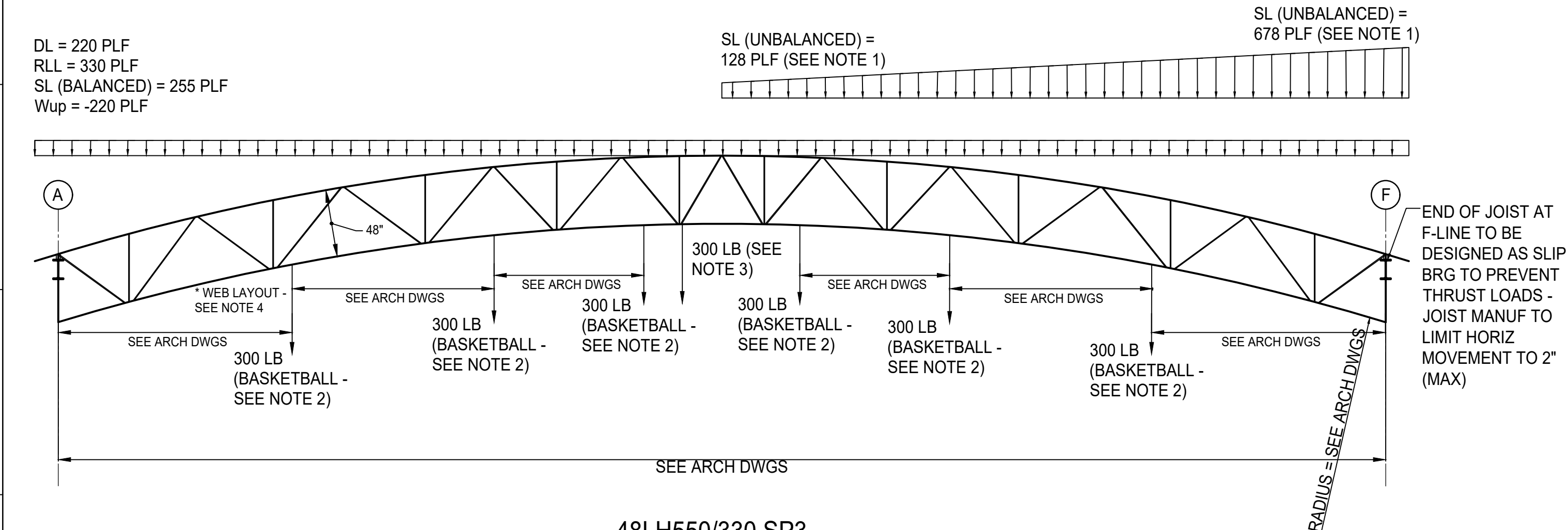
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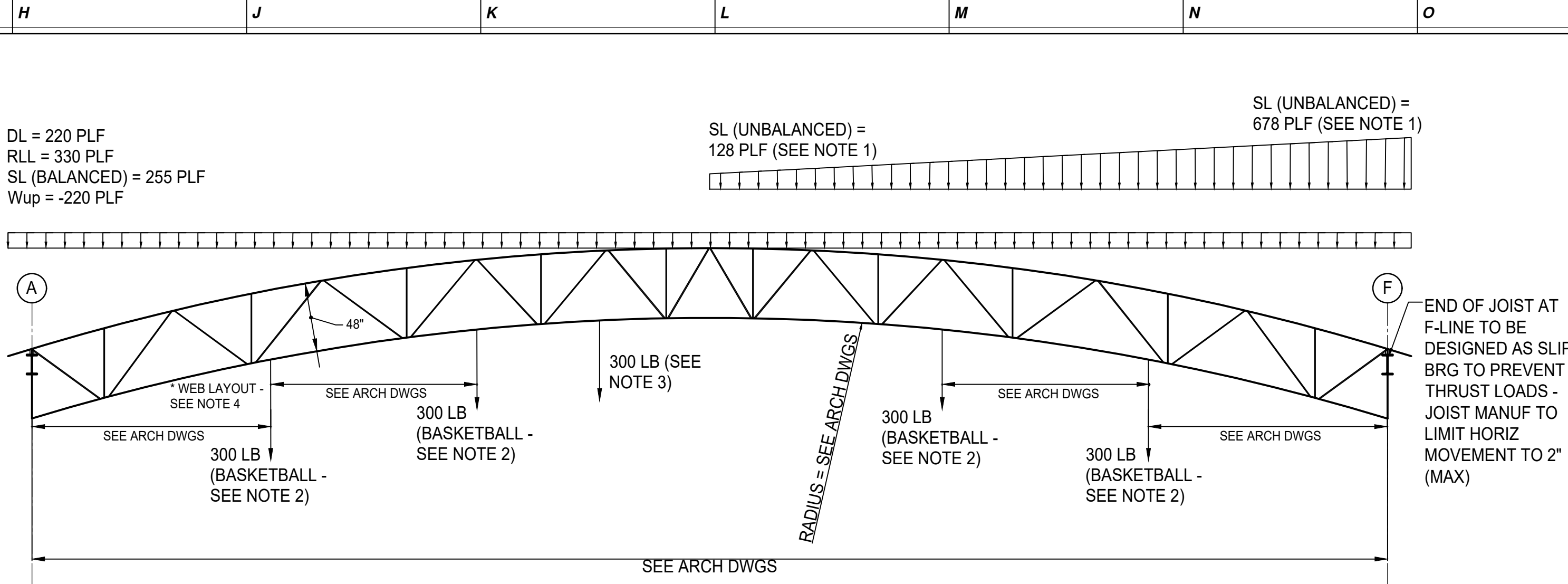
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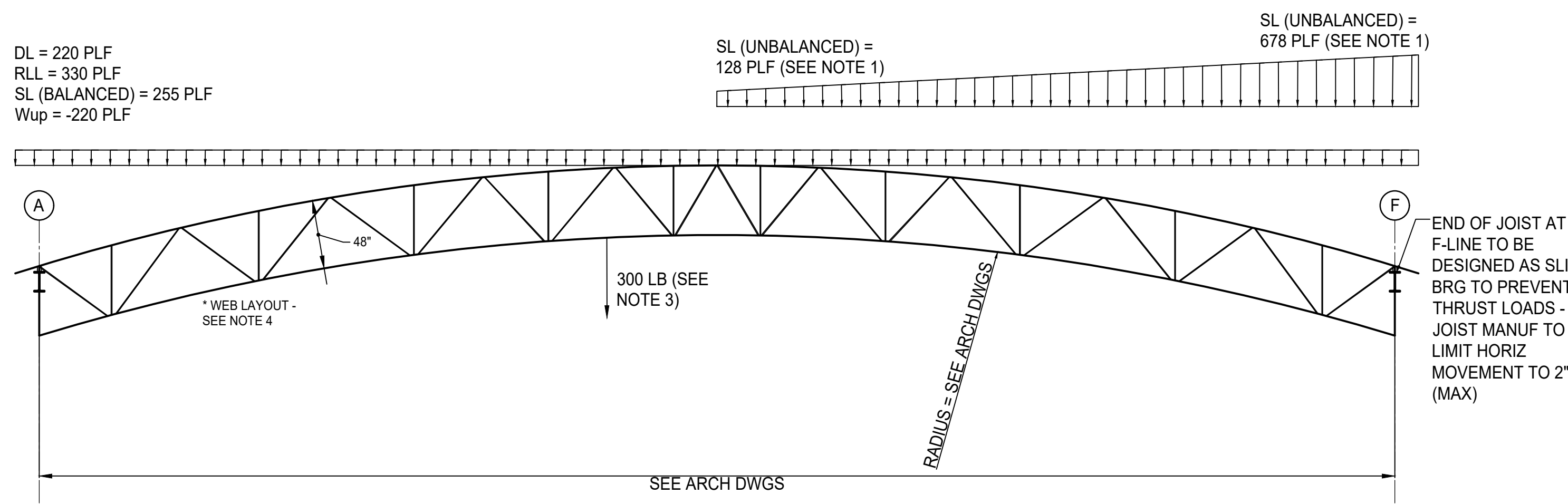
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SCALE: NOT TO SCALE



48LH550/330 SP4
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- MAIN ROOF JOISTS NOTES
1. UNBALANCED SNOW LOADS SHALL BE CONSIDERED ON EACH HALF OF JOIST SPAN & ANALYZED SEPARATELY FROM BALANCED SNOW LOAD.
 2. ALL HANGING EQUIPMENT WEIGHTS TO BE COORDINATED WITH GC FOR FINAL WEIGHTS.
 3. DESIGN JOIST FOR A 300 LB CONCENTRATED LOAD AT ANY LOCATION ALONG THE BOTTOM CHORD (ADD LOAD & BEND CHECK).
 4. WEB LAYOUT PER JOIST SUPPLIER - FINAL LAYOUT TO BE APPROVED BY ARCHITECT.
 5. ALL LOADS ARE SERVICE LEVEL UNFACTORED LOADS.
 6. BRIDGING LOCATIONS SHOWN ON PLAN ARE BASED ON LH SERIES JOISTS. FINAL BRIDGING LOCATIONS SHALL BE DETAILED BY THE JOIST SUPPLIER - ADDITIONAL ROWS OF BRIDGING MAY BE REQUIRED.



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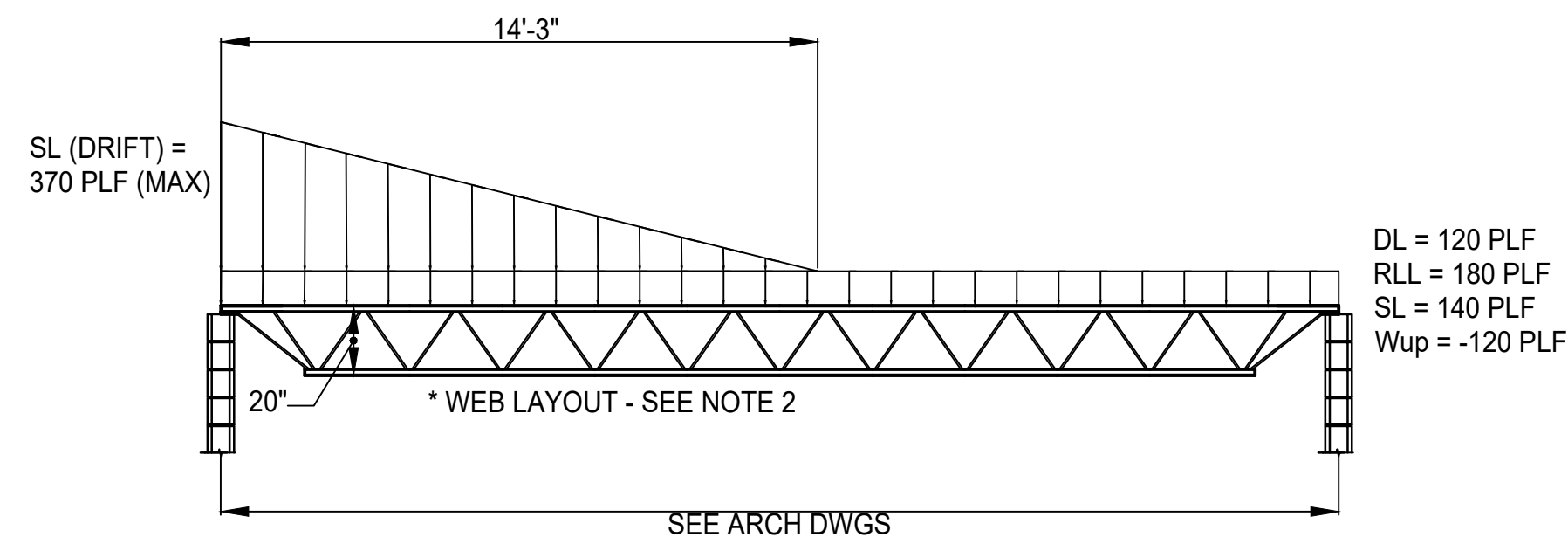
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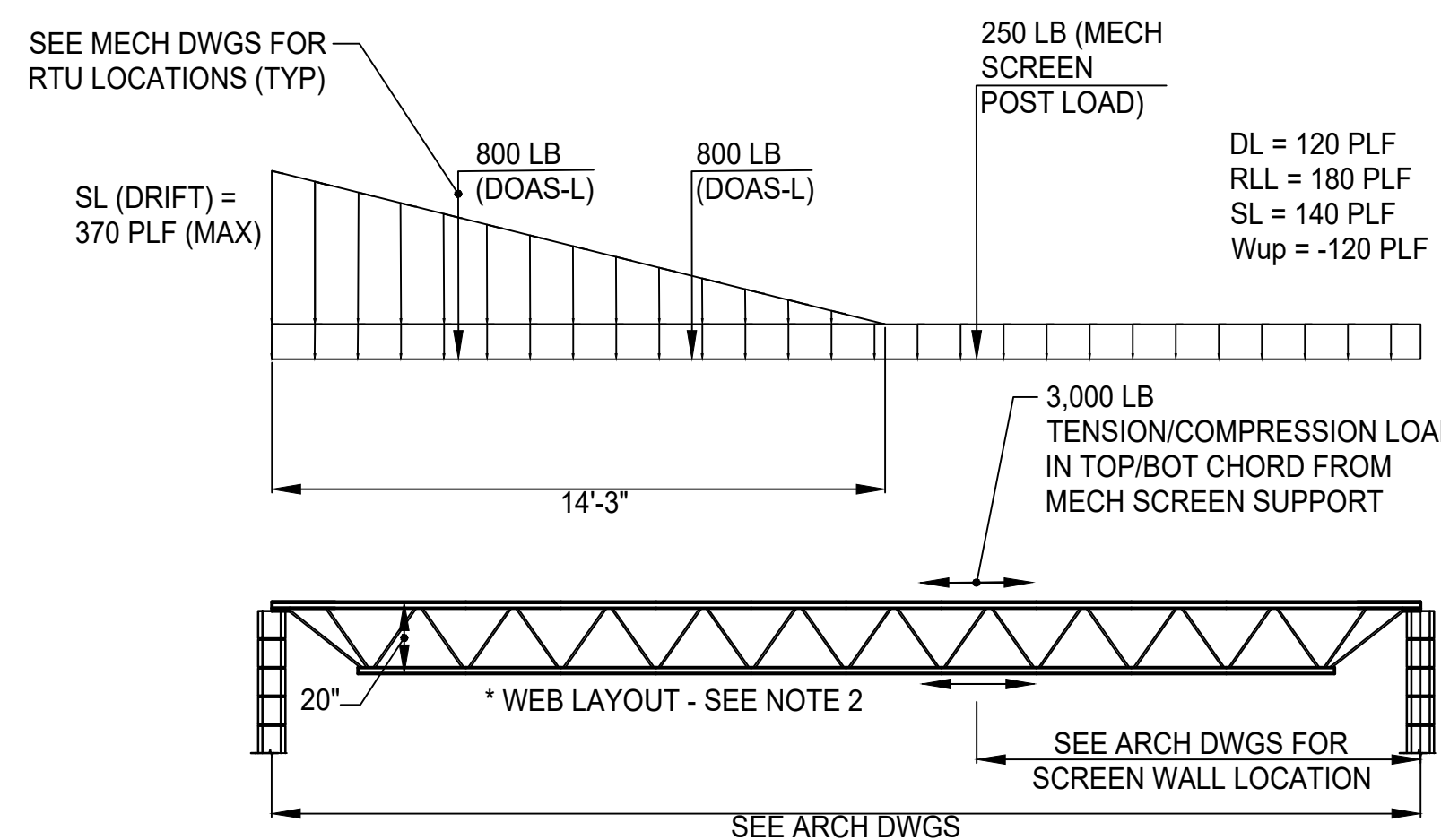
MAIN GYM ROOF JOISTS
NEW HOPKINS GYMNASIUM
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Job No.	2.20277.25.14
File No.	File No.

S4.10

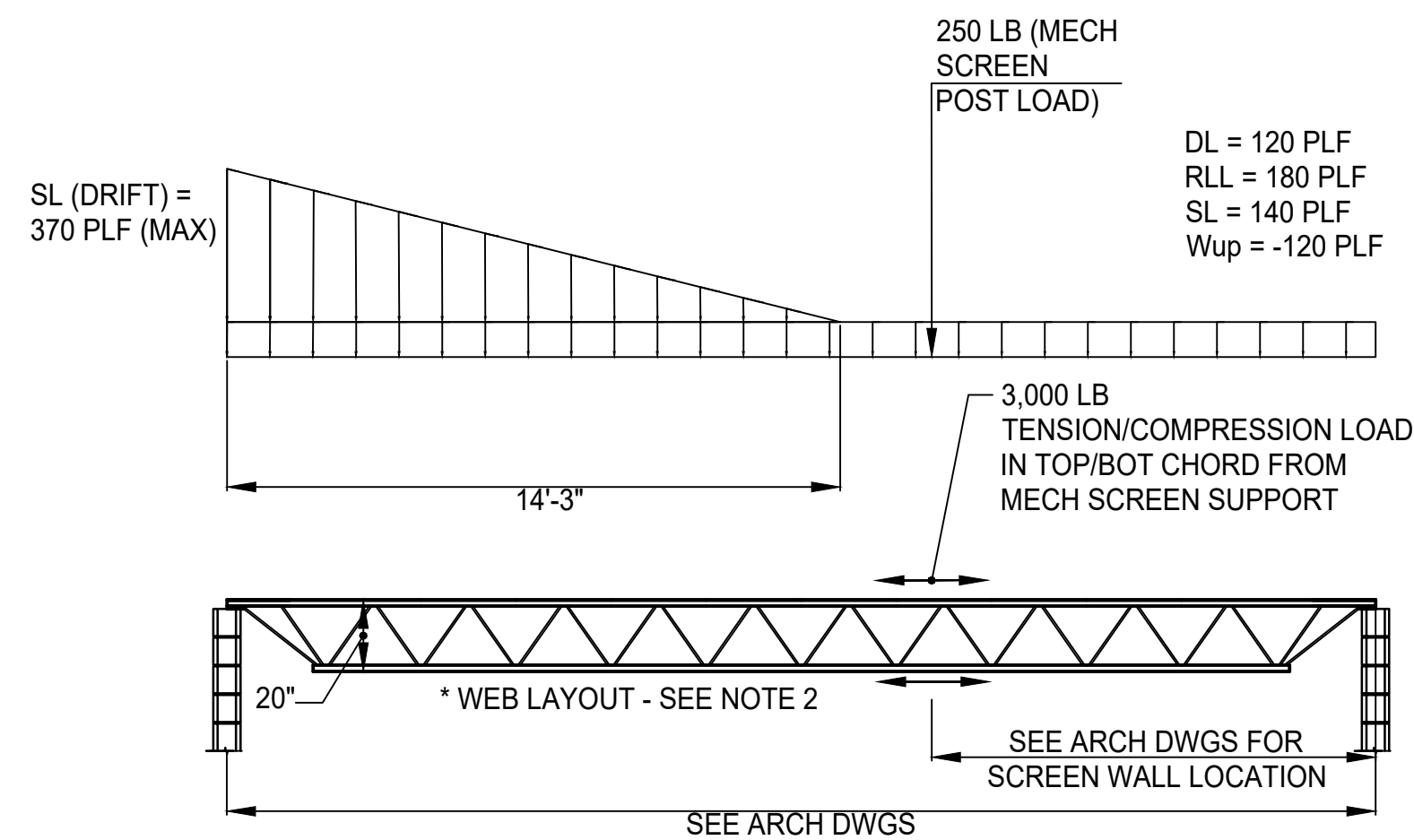


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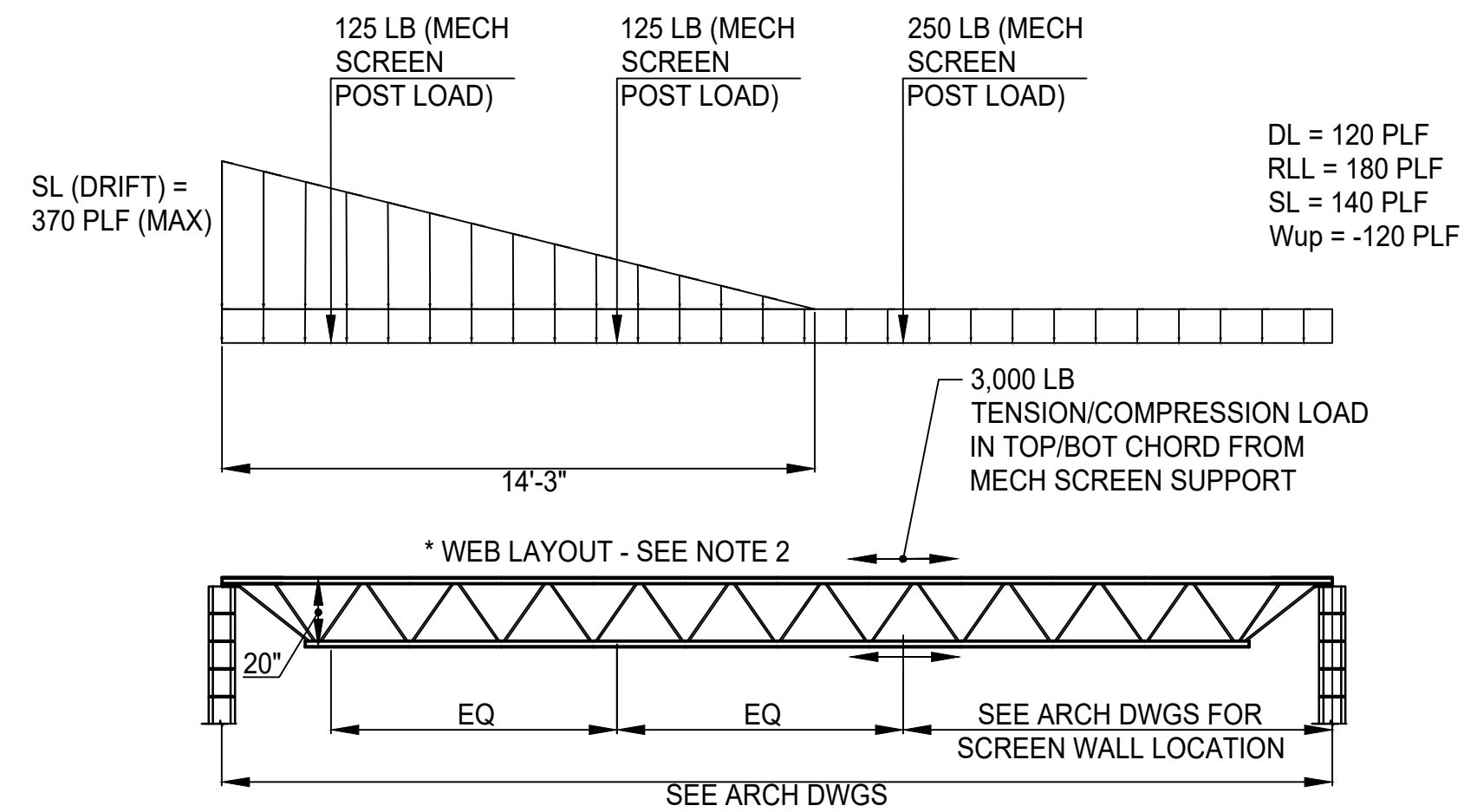


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SCALE: NOT TO SCALE



20K300/180 SP3
SCALE: NOT TO SCALE



20K300/180 SP4
SCALE: NOT TO SCALE

- ENTRANCE ROOF JOISTS NOTES:**
1. MECHANICAL SCREEN AND RTU LOCATIONS TO BE COORDINATED WITH MECH DWGS.
 2. WEB LAYOUT PER JOIST SUPPLIER - FINAL LAYOUT TO BE APPROVED BY ARCHITECT.
 3. ALL LOADS ARE SERVICE LEVEL UNFACTORED LOADS.
 4. BRIDGING LOCATIONS SHOWN ON PLAN ARE BASED ON LH SERIES JOISTS. FINAL BRIDGING LOCATIONS SHALL BE DETAILED BY THE JOIST SUPPLIER - ADDITIONAL ROWS OF BRIDGING MAY BE REQUIRED.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR THE CUTTING OF ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE & DUCT PENETRATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING HOLES IN ROOF FOR EQUIPMENT AND DUCTWORK AND PROVIDING ROOF/FLOOR/WALL STRUCTURAL SUPPORT. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, ROOFING, DUNNAGE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING & RELOCATING EXISTING ELECTRICAL, FIRE ALARM & COMMUNICATION DEVICES TO ACCOMMODATE THE INSTALLATION OF NEW UNITS, PIPING & DUCTWORK. CHECK AND VERIFY EXACT LOCATIONS IN FIELD.
3. FOR EXISTING TO REMAIN CEILING AREAS AS INDICATED ON THE ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL REMOVE EXISTING CEILING TILES AND CEILING GRID TO ACCOMMODATE THE INSTALLATION OF NEW UNITS, PIPING & DUCTWORK. RE-INSTALL ALL CEILING TILES BACK TO MATCH EXISTING. REMOVE & REPLACE ALL DAMAGED TILES & CEILING GRID. CHECK IN FIELD.
4. CONTRACTOR IS RESPONSIBLE TO CORE DRILL ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE CONDUIT, ETC. PENETRATIONS. SEAL OPENING WITH 3HRS FIRE BARRIER CAULK.
5. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
6. CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTORS SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
7. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, AND INSPECTIONS PRIOR TO COMMENCING WORK. UPON COMPLETION OF WORK THE CONTRACTOR SHALL SECURE CERTIFICATE OF OCCUPANCY.
8. CONTRACTORS SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.

1. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NEW JERSEY STATE ENERGY CODE, INTERNATIONAL MECHANICAL CODE, ASHRAE GUIDELINES, SMACNA, COUNTY GUIDELINES, NEC, NATIONAL STANDARD PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. FOR NEW JERSEY STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS AND COMMENCING WORK, AND INCLUDE ALL SUCH NECESSARY WORK BASED ON THIS SITE FAMILIARIZATION IN THIS BID.
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS & METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVAL SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, APPROVALS, ETC. PRIOR TO COMMENCING WORK AND SHALL SECURE CERTIFICATE OF OCCUPANCY UPON COMPLETION OF WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE IN AN APPROVED MANNER. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF ANY SALVAGED OR EXCESS MATERIALS AT THE COMPLETION OF THE PROJECT.
8. UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
9. ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF THE EXISTING FACILITY.
10. CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER, AND AS NECESSARY FOR A PROPER OPERATIONAL SYSTEM.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF HIS WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL.
12. CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
14. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL WRITTEN OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
15. CONTRACTOR SHALL SUBMIT, WHERE REQUIRED BY THE ARCH/ENGR, SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL PRIOR TO THE START OF FABRICATION OF THOSE ITEMS. THIS INCLUDES JIG EQUIPMENT, SCHEMATIC DUCTWORK AND PIPING LAYOUT, BOILER ROOM LAYOUT, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL EQUIPMENT ETC WILL FIT WITH PROPER MAINTENANCE CLEARANCES) AT ALL LOCATIONS. REVIEW OF SHOP DRAWINGS/SUBMITTALS BY THE ARCH/ENGR DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE CURRENT MODEL NUMBERS, TYPE, & FEATURES OF ALL EQUIPMENTS & MATERIALS.
16. CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
18. ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE TO WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE AND OF EQUAL OR BETTER QUALITY.
19. ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
20. THE ARCHITECT HAS THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED, OR WORK DONE CONTRARY TO THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
21. CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND THE WORK OF HIS SUBCONTRACTORS FOR A PERIOD TWO (2) YEARS AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.

EQUIPMENT:

- REFER TO SCHEDULES FOR UNIT MANUFACTURER, SIZE, AND CAPACITY DATA.

DUCTWORK:

- INDOOR SUPPLY, RETURN AND EXHAUST DUCTWORK, EXCEPT AS INDICATED BELOW, SHALL BE GALVANIZED STEEL CONSTRUCTION. WEIGHTS AND CONSTRUCTION DETAIL SHALL BE IN ACCORDANCE WITH THE LATEST ASHRAE GUIDE AND/OR SMACNA STANDARDS.
- SHOWER AREAS EXHAUST AND OUTDOOR AIR INTAKE DUCTWORK SHALL BE ALUMINUM CONSTRUCTION, CLASS "A" SEALED.
- EXPPOSED DUCTWORK IN THE GYM SHALL BE DOUBLE WALL SPIRAL, PAINTED AND PRIMED. COLORS SHALL BE SELECTED BY THE OWNER REPRESENTATIVE.
- FLEXIBLE DUCTWORK: SHALL NOT EXCEED FOUR (4) FEET IN LENGTH. FOR ANY HORIZONTAL FLEX DUCT BRANCH TO A CEILING DIFFUSER, FURNISH A 90° BRACE TO MAINTAIN A LONG RADIUS ELBOW TO THE DIFFUSER ("TITUS" MAKE, MODEL "FLEXRIGHT").
- FIRE DAMPER: GREENHECK MAKE, MODEL FD-150 TYPE B (BLADES OUT OF AIRSTREAM), 1-1/2" HOUR RATED (UNLESS OTHERWISE NOTED) UL-555 LABELED DAMPER WITH STANDARD FRAME OR APPROVED EQUAL. PROVIDE WITH A RETAINING ANGLE AND AN ACCESS DOOR.

PIPING:

- GAS PIPING:
 - A. SHALL BE SCHEDULE 40 BLACK IRON, WITH WELDED JOINTS AND FITTINGS.
 - B. SHALL BE SCHEDULE #40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS (PIPE SIZE 2" AND SMALLER) AND WELDED FITTINGS (PIPE SIZE 2-1/2" AND LARGER)
- CONDENSATE DRAIN PIPING: SHALL BE HARD COPPER TYPE "L" WITH WROUGHT COPPER FITTINGS.

INSULATION:

- EXTERNAL DUCT INSULATION: 1" THICK, MIN. 1.5 LB. DENSITY MIN. R-6 FLEXIBLE FIBERGLASS DUCT INSULATION WITH REINFORCED FOIL FACED FLAME RESISTANT KRAFT VAPOR BARRIER, ADHERED TO DUCT W/ SEALED LAPS AND TAPED JOINTS.
- INTERNALLY LINED DUCT: 1" THICK, MIN. 1.0 LB. DENSITY MIN. R-6 RIGID INSULATION ADHERED TO DUCT. DUCTS WIDER THAN 12" TO HAVE WELDED PINS AND WASHERS. DUCT DIMENSIONS AS INDICATED ARE CLEAR INSIDE DUCT DIMENSIONS.

NOTES:

- ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MIN. OF 25' TO AND FROM ANY RTU.
- DUCT INSULATION NOTE: PROVIDE A MINIMUM 6" OVERLAP WHERE INTERNAL INSULATION ENDS AND EXTERNAL INSULATION BEGINS.
- ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC ("AP ARMAFLEX BLACK LAPSEAL") OR FIBERGLASS PIPE INSULATION WITH ASJ JACKET.
- FRESH AIR INTAKE AND EXPOSED DUCT: 1" THICK, MIN. 2 LB. DENSITY RIGID FIBERGLASS DUCT INSULATION WITH FOIL FACING VAPOR BARRIER FASTENED WITH WELDED CLIPS. CEMENTED JOINTS WITH ALUMINUM TAPE.

OUTDOOR DUCTWORK INSULATION: ANY DUCTWORK LOCATED OUTDOORS SHALL BE THERMADUCT® MAKE, PRE-INSULATED OUTDOOR AIR DUCT DISTRIBUTION SYSTEM WITH A MINIMUM R-VALUE OF R-16.2.

AIR DEVICES:

- SAD - KRUEGER MAKE, MODEL PLQ
- LSO /LSR - KRUEGER MAKE, MODEL 1500, 30° DEFLECTION.
- RAR - KRUEGER MAKE, MODEL S580
- GYM RAR - KRUEGER MAKE, MODEL, S580
- EAR - TITUS MAKE, MODEL S580
- NOTES:
 - ALL CEILING DIFFUSERS LOCATED IN ACOUSTIC CEILING GRID SHALL BE PROVIDED WITH FRAME TYPE FOR GRID MOUNTING. IF THE TILE IS SMALLER THAN TILE SIZE, THE DIFFUSER SHALL BE PROVIDED WITH FRAME TYPE FOR CEILING TYPE.
 - ALL GRD LOCATED IN THE GYMNASIUM AREA SHALL BE HEAVY DUTY STAINLESS STEEL TYPE.
 - ALL CEILING DIFFUSERS LOCATED IN GYPSUM BOARD AND/OR CONCEALED SPLINE CEILINGS SHALL BE PROVIDED WITH FRAME TYPE FOR SURFACE MOUNTING
 - PROVIDE FACTORY INSTALLED 90° BLANK-OFF PLATE(S) IN ALL 2 AND 3 WAY DIFFUSERS.
 - COLOR OF AIR OUTLETS/INLETS SHALL MATCH THE CEILING COLOR.
 - ALL AIR OUTLETS/INLETS TOILETS, AND CORRIDORS, SHALL BE ALUMINUM CONSTRUCTION

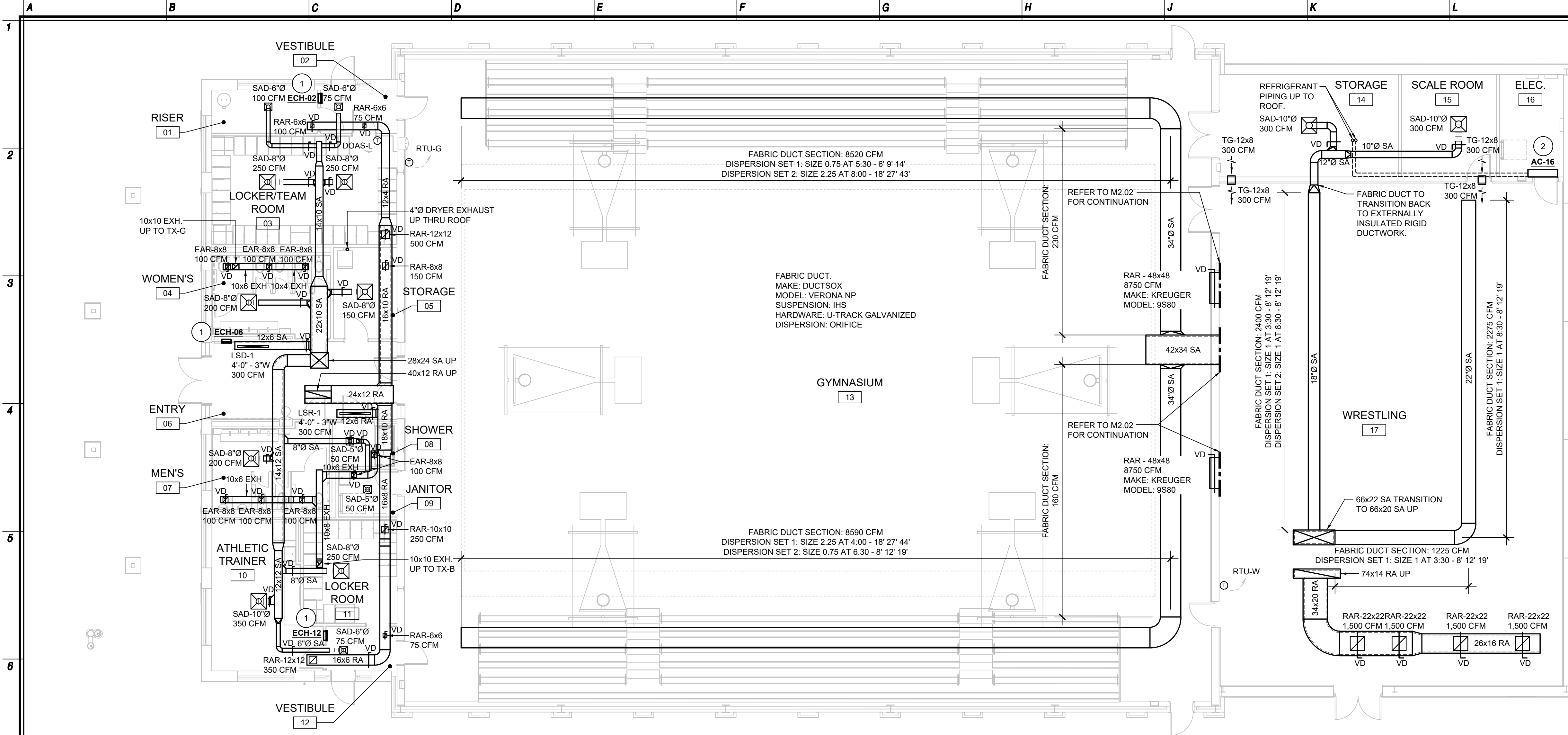
ACCESS DOORS

- FURNISH AND INSTALL ACCESS DOORS AT ALL LOCATIONS WHERE VALVES, DAMPERS, CONTROLS, VENTS, DRAINS, ETC. ARE TO BE INSTALLED ABOVE OR BEHIND ANY INACCESSIBLE SURFACE (GYPSUM BOARD, CMU, ETC.), IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON DRAWINGS OR NOT. ACCESS DOORS SHALL BE A SUITABLE SIZE TO MAINTAIN, OPERATE, REPAIR, AND REPLACE ALL EQUIPMENT. ACCESS DOORS SHALL BE FACTORY PRIMED AND PAINTED TO MATCH THE SURFACE IN WHICH THEY ARE INSTALLED.

	=	SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND END CFM INDICATED ON PLANS
	=	RETURN AIR REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
	=	EXHAUST AIR REGISTER (EAR); GRAVITY RELIEF GRILLE (GRG) WITH NECK SIZE AND CFM INDICATED ON PLANS
	=	SUPPLY AIR WALL REGISTER/GRILLE (SAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
	=	RETURN AIR WALL REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLAN
	=	INDICATES EXTRACTOR DAMPER
	=	POINT OF CONNECTION OF NEW PIPING/DUCTWORK TO EXISTING
	=	POINT OF DISCONNECTION OF NEW PIPING/DUCTWORK TO EXISTING
	=	INDICATES HARD DUCT WITH INTERNAL LINING (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
	=	INDICATES HARD DUCT (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
	=	INDICATES FLEXIBLE DUCT (DIMENSIONS ARE INSIDE CLEAR DIAMETER, LENGTH NOT TO EXCEED FOUR (4) FEET)
	=	DUCT TURN UP (SUPPLY, RETURN, EXHAUST)
	=	DUCT TURN DOWN (SUPPLY, RETURN, EXHAUST)
	=	FIRE DAMPER WITH ACCESS DOOR
	=	VOLUME DAMPER
	=	BACK DRAFT DAMPER
	=	MOTORIZED DAMPER
	=	INDICATES WALL MOUNTED THERMOSTAT
	=	INDICATES EXISTING TO BE REMOVED
	=	REFRIGERANT PIPING
	=	CONDENSATE DRAIN
	=	PIPE TURN UP
	=	PIPE TURN DOWN
	=	PROJECT NORTH
	=	ROOM NAME ROOM NUMBER
	=	REVISION

&	=	AND	JAN	=	JANITOR
@	=	AT			
ø	=	DIAMETER OR ROUND	LSD	=	LINEAR BAR GRILLE (SUPPLY)
			LSR	=	LINEAR BAR GRILLE (RETURN)
ABV	=	ABOVE			
AC	=	AIR CONDITIONING UNIT	MAX	=	MAXIMUM
AD	=	ACCESS DOOR	MD	=	MOTORIZED DAMPER
ADD'L	=	ADDITIONAL	MECH	=	MECHANICAL
AFF	=	ABOVE FINISHED FLOOR	MEP	=	
					MECHANICAL/ELECTRICAL/PLUMBING
BDD	=	BACK DRAFT DAMPER	MFR	=	MANUFACTURER
BLDG	=	BUILDING	MIN	=	MINIMUM
BOD	=	BOTTOM OF DUCT	MISC	=	MISCELLANEOUS
CD	=	CONDENSATE DRAIN	N.A.	=	NOT APPLICABLE
CL	=	CLOSET	NK	=	NECK SIZE
CLG	=	CILING	NTS	=	NOT TO SCALE
CO	=	CARBON MONOXIDE			
COL	=	COLUMN	OA	=	OUTSIDE AIR
CONSTR	=	CONSTRUCTION	OC	=	ON CENTER
CONT	=	CONTINUOUS	OD	=	OUTSIDE DIAMETER
CORR	=	CORROBOR	OPG	=	OPENING
CTR	=	CENTER			
CU	=	CONDENSING UNIT	(R)	=	RELOCATED
			RA	=	RETURN AIR
DET	=	DETAIL	RAD	=	RADIUS
DIA	=	DIAMETER	RAG	=	RETURN AIR GRILLE
DM	=	DIMENSION	RAR	=	RETURN AIR REGISTER
DN	=	DOWN	RM	=	ROOM
DSD	=	DUCT SMOKE DETECTOR	RTU	=	ROOF TOP HV/HVAC UNIT
DWG	=	DRAWING			
(D)	=	DEMOLISHED	SA	=	SUPPLY AIR
			SAD	=	SUPPLY AIR DIFFUSER
EA	=	EACH	SAG	=	SUPPLY AIR GRILLE
EAR	=	EXHAUST AIR REGISTER	SA	=	SUPPLY AIR REGISTER
ECH	=	ELECTRIC CABINET HEATER	SD	=	SMOKE DETECTOR
EF	=	EXHAUST FAN	SECT	=	SECTION
ELEC	=	ELECTRIC	SPEC	=	SPECIFICATION
ENGR	=	ENGINEER (ING)	STD	=	STANDARD
EQ	=	EQUAL	STG	=	STORAGE
EQUIP	=	EQUIPMENT	TG	=	TRANSFER AIR GRILLE
(E)EXIST	=	EXISTING	TOD	=	TOP OF DUCT
			TX	=	TOILET EXHAUST
			TYP	=	TYPICAL
FC	=	FLEXIBLE CONNECTION	VD	=	VOLUME DAMPER
FD	=	FIRE DAMPER	VFD	=	VARIABLE FREQUENCY DRIVE
FF	=	FINISHED FLOOR	VIF	=	VERIFY IN FIELD
FLR	=	FLOOR			
FP	=	FIRE PROTECTION			
FSD	=	FIRE/SMOKE DAMPER			
			W/	=	WITH
GA	=	GAUGE	W/O	=	WITHOUT
GALV	=	GALVANIZED	WMS	=	WIRE MESH SCREEN
			WT	=	WEIGHT
HVAC	=	HEAT/VENT/AIR COND			
ID	=	INSIDE DIAMETER (DIM)			
IN	=	INCH			
INSUL	=	INSULATION			

MO.01



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M2.01

FIRST FLOOR PROPOSED MECHANICAL PLAN

1/8" = 1'-0"

GENERAL CONSTRUCTION NOTES

- CONTRACTOR IS RESPONSIBLE FOR THE CUTTING OF ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE & DUCT PENETRATIONS.
- CONTRACTOR IS RESPONSIBLE TO CORE DRILL ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE CONDUIT, ETC. PENETRATIONS. SEAL OPENING WITH 3HRS FIRE BARRIER CAULK.
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- CONTRACTORS SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.
- DOWN-TIME FOR THE TIE-IN OR SWITCHOVER SHALL BE KEPT TO A MINIMUM. COORDINATE SCHEDULE WITH THE OWNER.

MECHANICAL CONSTRUCTION PLAN NOTES

- ALL NEW DUCTWORK & PIPING SHALL BE INSTALLED CONCEALED ABOVE CLG., UNLESS OTHERWISE NOTED. NEW DUCTWORK SHALL BE EXTERNALLY INSULATED AND/OR INTERNALLY LINED ACCORDING TO THE HVAC MATERIALS NOTES ON M0.01. PROVIDE FIBERGLASS INSULATION ON NEW PIPING, VALVES, ETC. REFER TO HVAC MATERIAL NOTES FOR INSULATION THICKNESS. PROVIDE PIPE IDENTIFICATIONS & FLOW ARROWS ON PIPE INSULATION.
- ALL NEW DDC WIRING BY THE CONTROL'S SUBCONTRACTOR SHALL BE INSTALLED CONCEALED ABOVE CLG. ALL NEW EXPOSED DDC WIRING FROM HVAC EQUIPMENT TO NEW THERMOSTATS SHALL BE INSTALLED IN EMT TUBING AND PAINTED TO MATCH EXISTING WALL COLOR.
- CONTRACTOR IS REQUIRED TO PROPERLY PROTECT FLOORS, WALLS, FURNITURE, EQUIPMENT, ETC. DURING CONSTRUCTION. ALL DAMAGED ITEMS SHALL BE REPAIRED/REPLACED AT EXPENSE OF THE CONTRACTOR. REMOVE PROTECTIONS AFTER ALL WORK IS COMPLETE & VACUUM CLEAN ALL AREAS TO BE FREE OF DUST & DEBRIS.

PROPOSED KEY NOTES

SYMBOL INDICATES PROPOSED KEY NOTE

- PROVIDE AND INSTALL NEW WALL RECESSED ELECTRIC CABINET UNIT HEATER WITH SIZES AND CAPACITIES SCHEDULED. COMPLETE WITH ALL ASSOCIATED UNIT MOUNTED THERMOSTAT, SUPPORTS, BRACKETS, ELECTRICALS, CONTROLS, ETC.
- PROVIDE AND INSTALL NEW REFRIGERANT PIPING. COMPLETE WITH INSULATION, ROOF SUPPORTS, EXTERIOR WALL PENETRATIONS, REFRIGERANT PIPING SIZES TO MATCH EXISTING (VIF).
- PROVIDE AND INSTALL NEW WALL MOUNTED AC UNIT OF SIZES AND CAPACITIES SCHEDULED. COMPLETE WITH ASSOCIATED WALL BRACKETS, SUPPORTS, PIPING, ELECTRICALS, WALL MOUNTED THERMOSTAT IN A TAMPER PROOF ENCLOSURE, CONTROLS, ETC. INTERLOCK AC UNIT WITH ASSOCIATED CONDENSING UNIT.

NJ Certificate of Authorization	
Eng'r. No.	24042737500
Arch. No.	21AC00012400
Date	07/16/26
Checked	TW
Drawn	MNB
THOMAS WIGHARD, P.E.	
PROFESSIONAL ENGINEER	
License No. NJ24CE04901100	

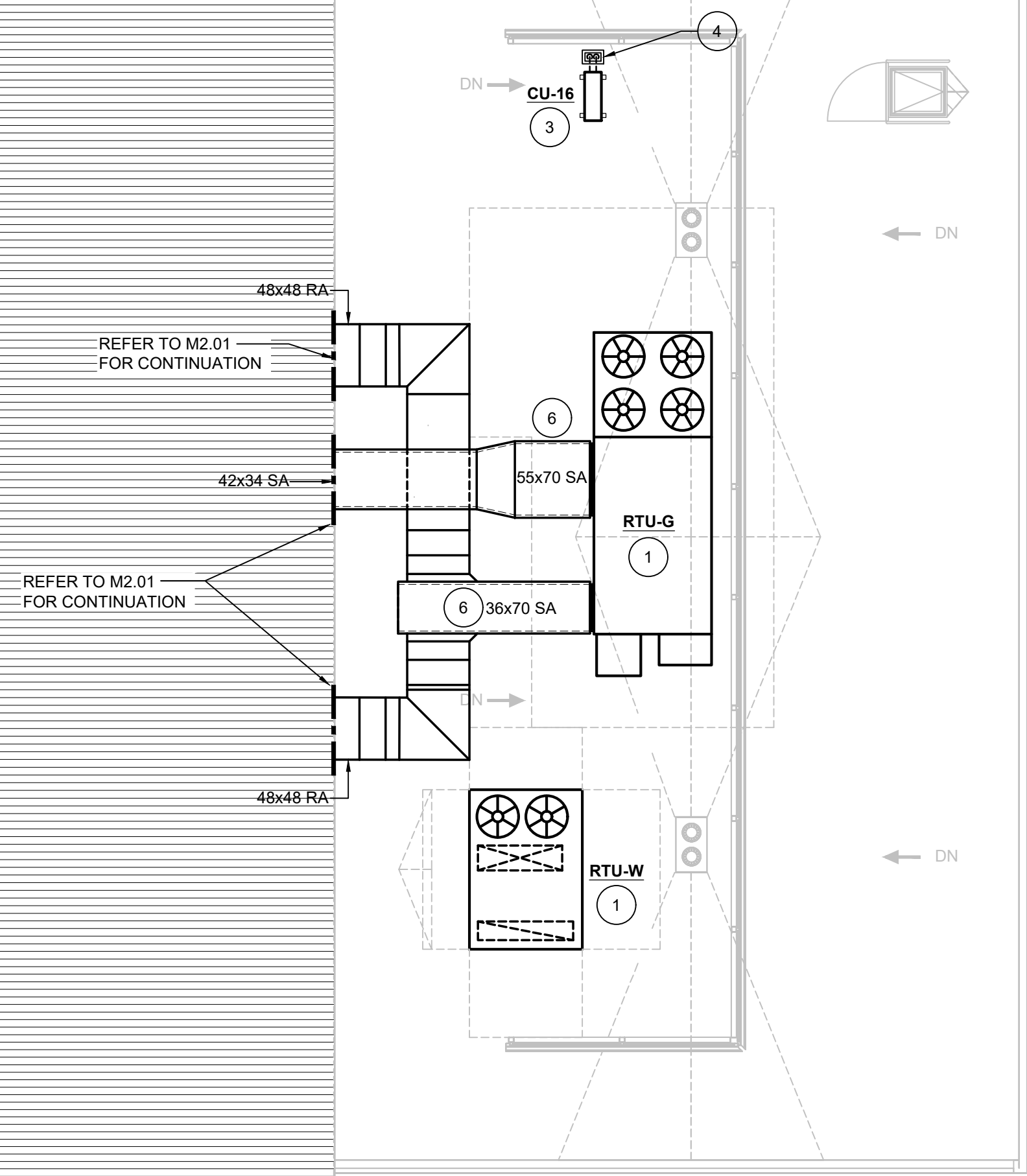
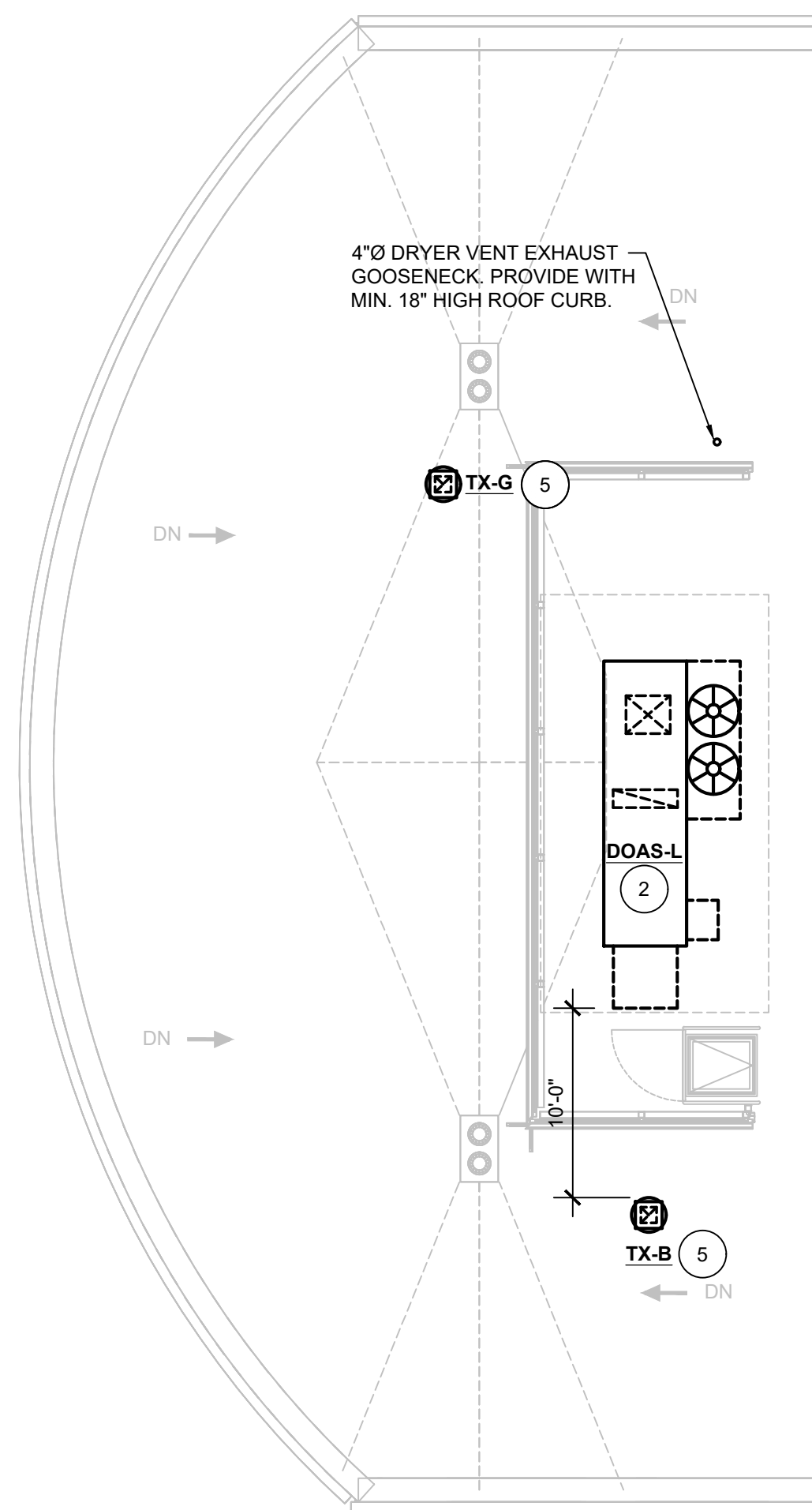
Revisions:

Engineering,
Planning,
Architecture,
Surveying Inc.
LAN ASSOCIATES
445 Godwin Ave Ste 9, Midland Park, NJ 07432 | t. 201-447-6400 | f. 201-447-1233

FIRST FLOOR PLAN
HOPKINS PARCEL ATHLETIC FIELD IMPROVEMENTS
HADDONFIELD BOARD OF EDUCATION
425 KINGS HIGHWAY EAST
HADDONFIELD, N.J. 08033

Job No. 2.20277.25.14
File No. 202772514M201

M2.01



GENERAL CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR THE CUTTING OF ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE & DUCT PENETRATIONS.
2. CONTRACTOR IS RESPONSIBLE TO CORE DRILL ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE, CONDUIT, ETC. PENETRATIONS. SEAL OPENING WITH 3HRS FIRE BARRIER CAULK.
3. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
4. CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTORS SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
5. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, AND INSPECTIONS PRIOR TO COMMENCING WORK. UPON COMPLETION OF WORK THE CONTRACTOR SHALL SECURE CERTIFICATE OF OCCUPANCY.
6. CONTRACTORS SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.
7. DOWN-TIME FOR THE TIE-IN OR SWITCHOVER SHALL BE KEPT TO A MINIMUM. COORDINATE SCHEDULE WITH THE OWNER.

MECHANICAL CONSTRUCTION PLAN NOTES

1. ALL NEW DUCTWORK & PIPING SHALL BE INSTALLED CONCEALED ABOVE CLG., UNLESS OTHERWISE NOTED. NEW DUCTWORK SHALL BE EXTERNALLY INSULATED AND/OR INTERNALLY LINED ACCORDING TO THE HVAC MATERIALS NOTES ON M0.01. PROVIDE FIBERGLASS INSULATION ON NEW PIPING, VALVES, ETC. REFER TO HVAC MATERIALS NOTES FOR INSULATION THICKNESS. PROVIDE PIPE IDENTIFICATIONS & FLOW ARROWS ON PIPE INSULATION.
2. ALL NEW DDC WIRING BY THE CONTROL'S SUBCONTRACTOR SHALL BE INSTALLED CONCEALED ABOVE CLG. ALL NEW EXPOSED DDC WIRING FROM HVAC EQUIPMENT TO NEW THERMOSTATS SHALL BE INSTALLED IN EMT TUBING AND PAINTED TO MATCH EXISTING WALL COLOR.
3. CONTRACTOR IS REQUIRED TO PROPERLY PROTECT FLOORS, WALLS, FURNITURE, EQUIPMENT, ETC. DURING CONSTRUCTION. ALL DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT EXPENSE OF THE CONTRACTOR. REMOVE PROTECTIONS AFTER ALL WORK IS COMPLETE & VACUUM CLEAN ALL AREAS TO BE FREE OF DUST & DEBRIS.

PROPOSED KEY NOTES

1. PROVIDE AND INSTALL NEW (DX COOLING / GAS HEATING) PACKAGED ROOFTOP UNIT OF SIZES AND CAPACITIES SCHEDULED. COMPLETE WITH ALL ASSOCIATED DUCTWORK, GAS PIPING, MIN. 24" HIGH VIBRATION ISOLATION CURB, ELECTRICALS, CONTROLS, ETC. FOR A FULLY OPERABLE SYSTEM.
2. PROVIDE AND INSTALL NEW (DX COOLING / GAS HEATING) PACKAGED DEDICATED OUTDOOR AIR SYSTEM WITH ENERGY RECOVERY OF SIZES AND CAPACITIES SCHEDULED. COMPLETE WITH ALL ASSOCIATED DUCTWORK, GAS PIPING, MIN. 24" HIGH VIBRATION ISOLATION CURB, ELECTRICALS, CONTROLS, ETC. FOR A FULLY OPERABLE SYSTEM.
3. PROVIDE AND INSTALL NEW OUTDOOR CONDENSING UNIT OF SIZES AND CAPACITIES SCHEDULED. COMPLETE WITH ASSOCIATED 18" HIGH ROOF SUPPORTS, ROOF RAILS, REFRIGERANT PIPING, ELECTRICALS, CONTROLS, ETC. INTERLOCK AC UNIT WITH ASSOCIATED INDOOR UNIT.
4. PROVIDE AND INSTALL NEW REFRIGERANT PIPING. COMPLETE WITH INSULATION, ROOF SUPPORTS (MIRO INDUSTRIES OR APPROVED EQUAL), ROOF PENETRATIONS THROUGH PIPE PORTAL. REFRIGERANT PIPING SIZES SHALL BE COORDINATED WITH MFR GUIDELINES BASED ON THE TOTAL EQUIVALENT RUN.
5. PROVIDE AND INSTALL NEW EXHAUST FAN OF SIZES AND CAPACITIES SCHEDULED. COMPLETE WITH ALL ASSOCIATED DUCTWORK, MIN. 18" HIGH ALUMINUM CANTED ROOF CURB, ELECTRICALS, CONTROLS, ETC. FOR A FULLY OPERABLE SYSTEM.
6. NEW OUTDOOR AIR DUCTWORK INSULATED AS INDICATED ON HVAC MATERIALS SCHEDULE / DWG. M0.01.

NJ Certificate of Authorization	
Eng'g. No.	24G027937250
Arch. No.	24G020012491
Date	07/16/2
Checked	TW
Drawn	MNB

Revisions

Engineering,
Planning,
Architecture,
Surveying Inc.

LAN
ASSOCIATES

ROOF PLAN

HOPKINS PARCEL ATHLETIC FIELD IMPROVEMENTS
HADDOFIELD BOARD OF EDUCATION
425 KINGS HIGHWAY EAST
HADDOFIELD, N.J. 08033

Job No. 2.20277.25.14

File No. 202772514M201

M2.02

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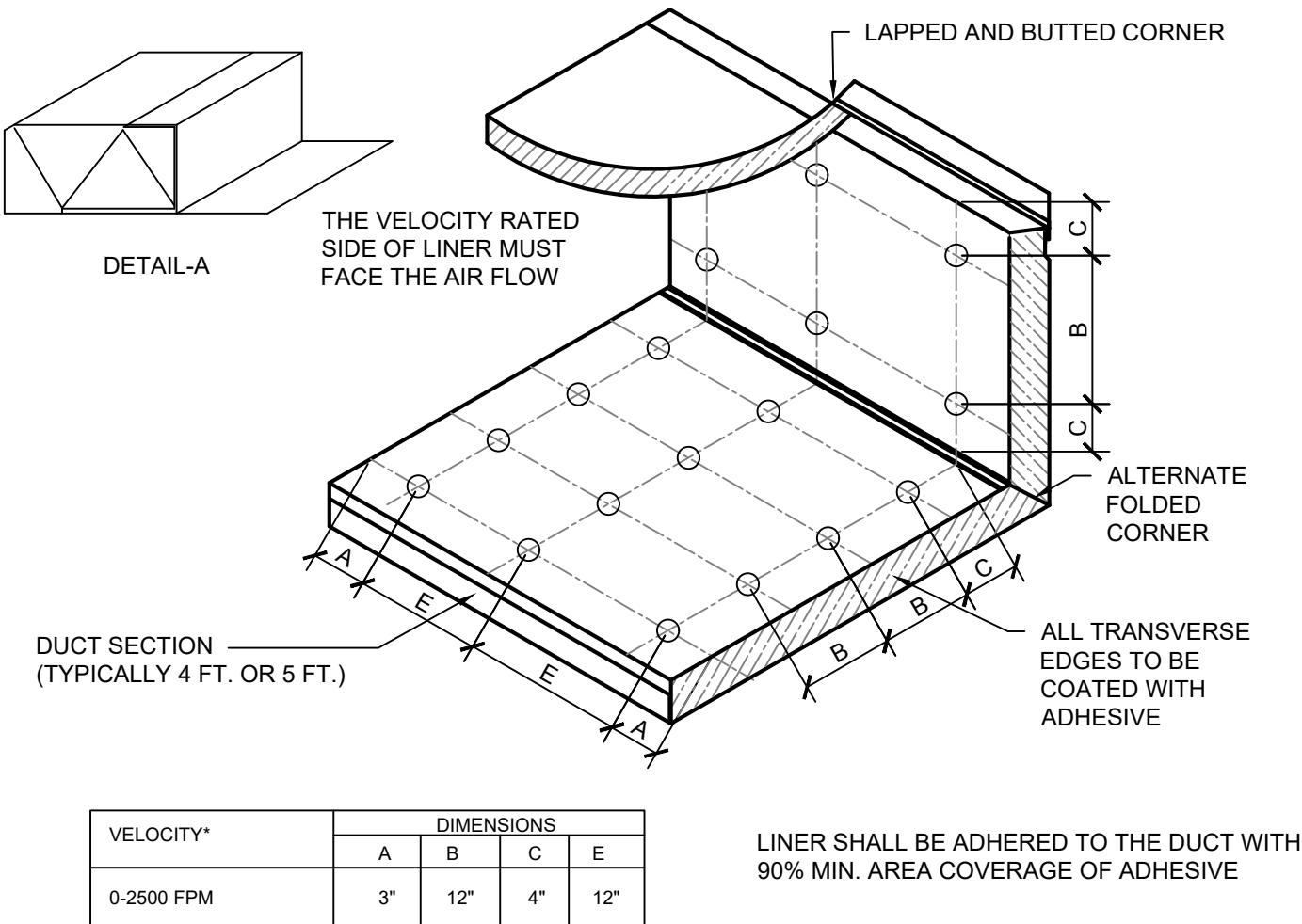
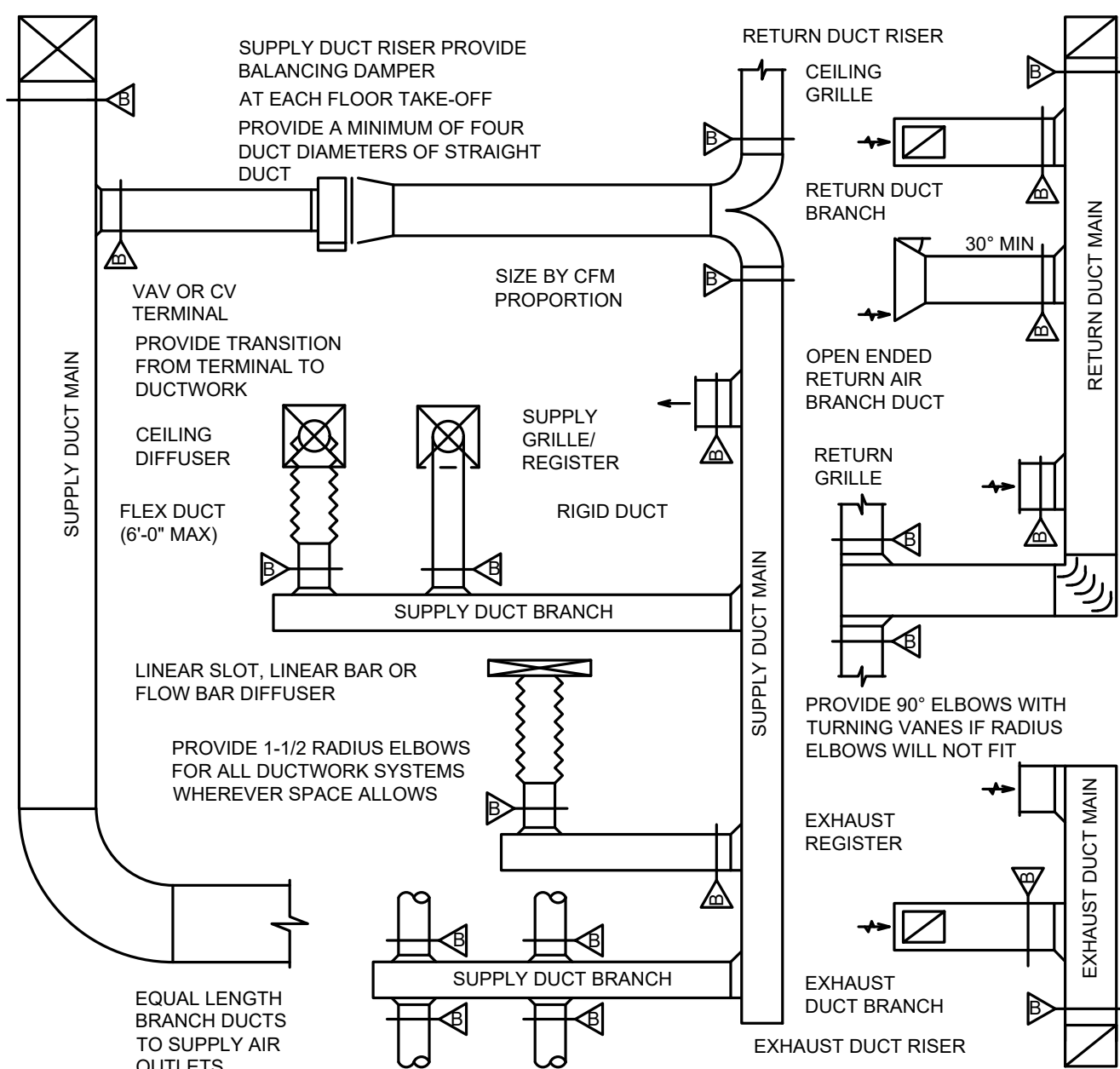
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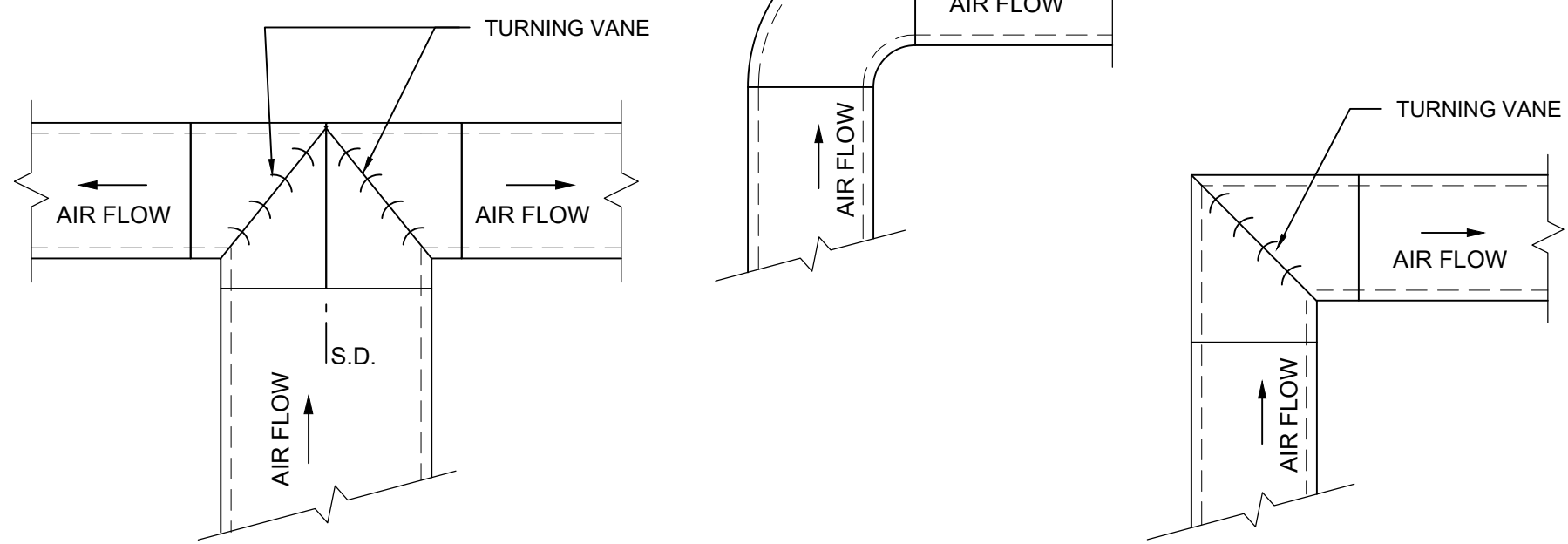
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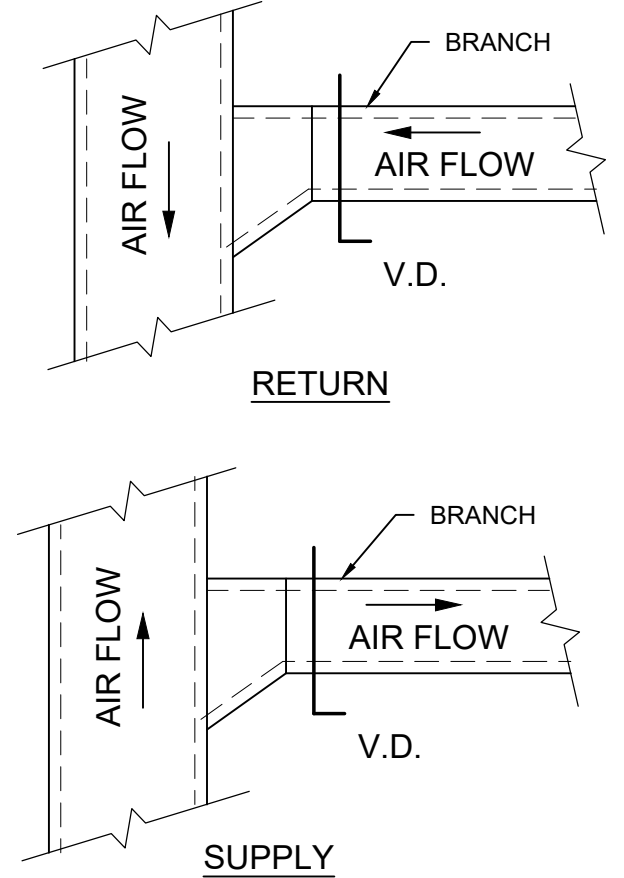
2 FLEXIBLE DUCT LINER INSULATION DETAIL

N.T.S.



3 DUCT TURN DETAIL

N.T.S.



4 DUCT / DIFFUSER TAKE-OFF DETAIL

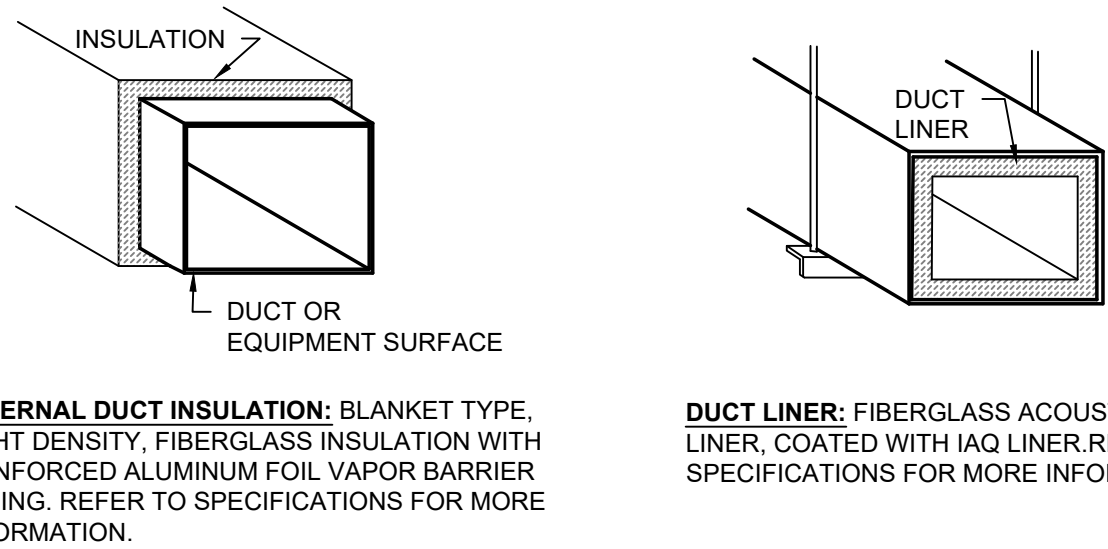
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General Notes

- REFER TO HVAC FLOOR PLANS FOR DUCT SIZES
- REFER TO HVAC SCHEDULE FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES
- PROVIDE A MANUAL TYPE CABLE OPERATED BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN INLET
- ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED
- FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS
- PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT
- INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS
- VOLUME DAMPER

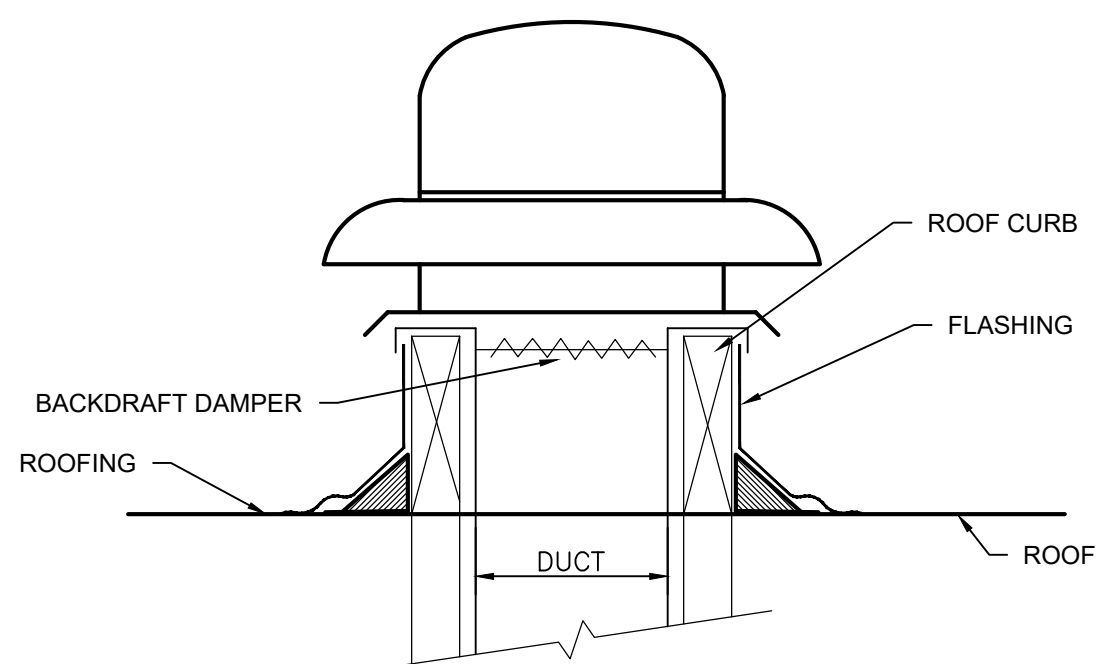
1 DUCT CONNECTION DETAILS

N.T.S.



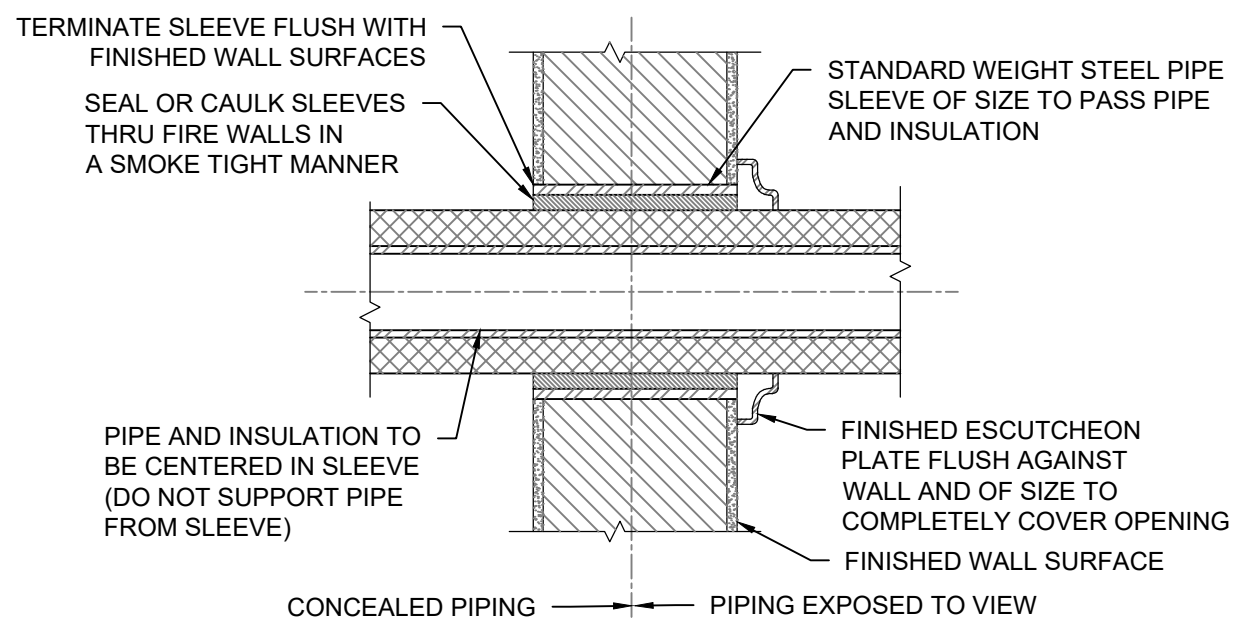
5 DUCT INSULATION DETAILS

N.T.S.



6 ROOF EXHAUST FAN DETAIL

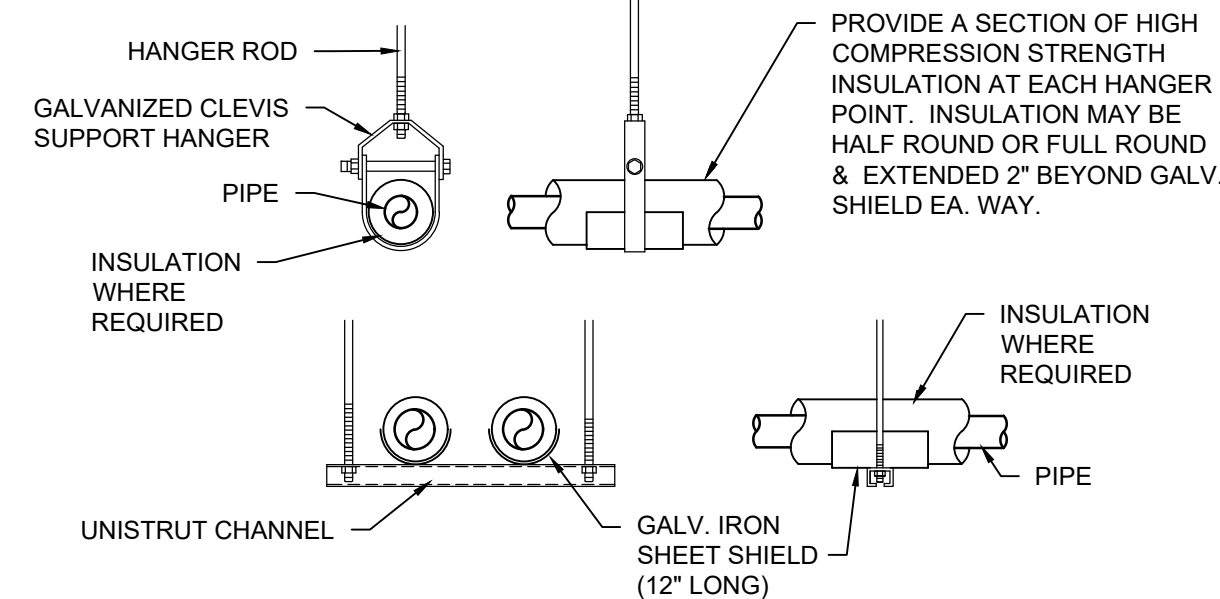
N.T.S.



7 PIPE SLEEVE THROUGH INTERIOR WALL DETAIL

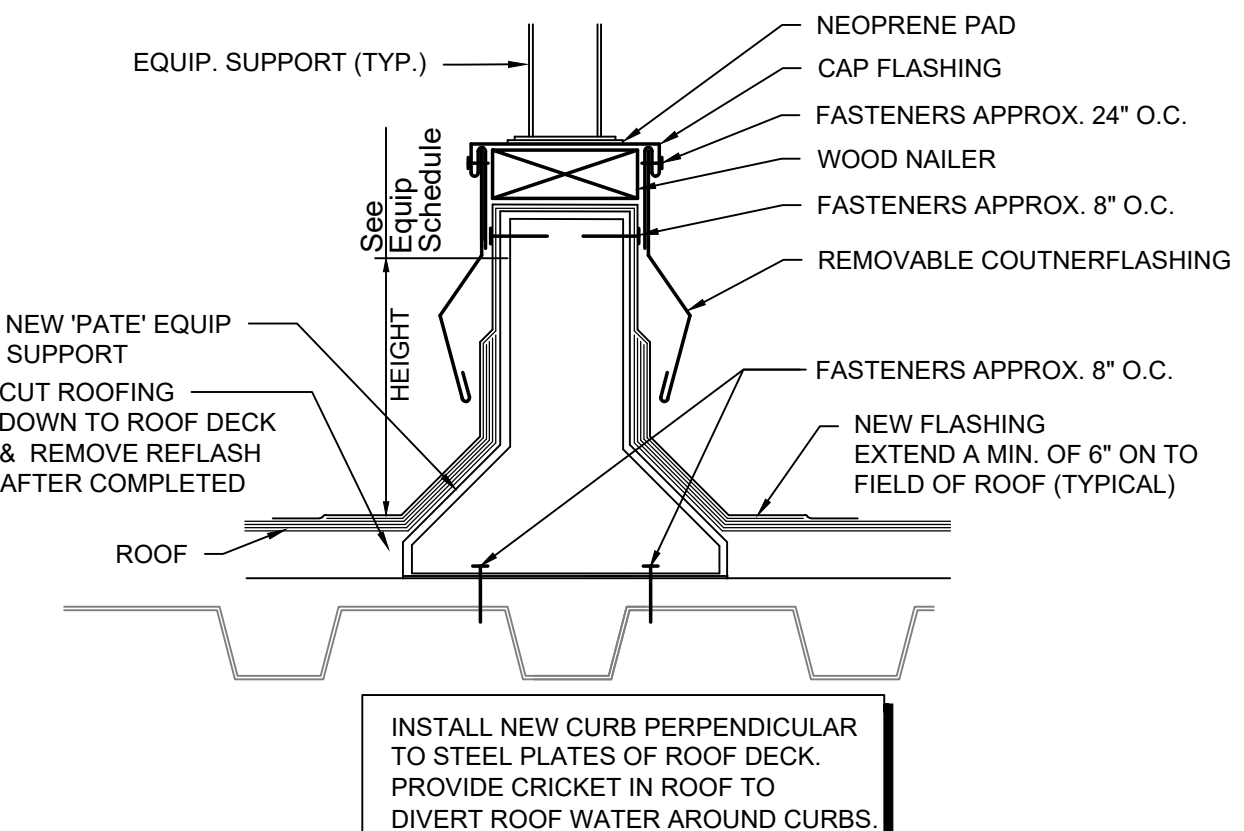
N.T.S.

- NOTES:
- ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
 - PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.



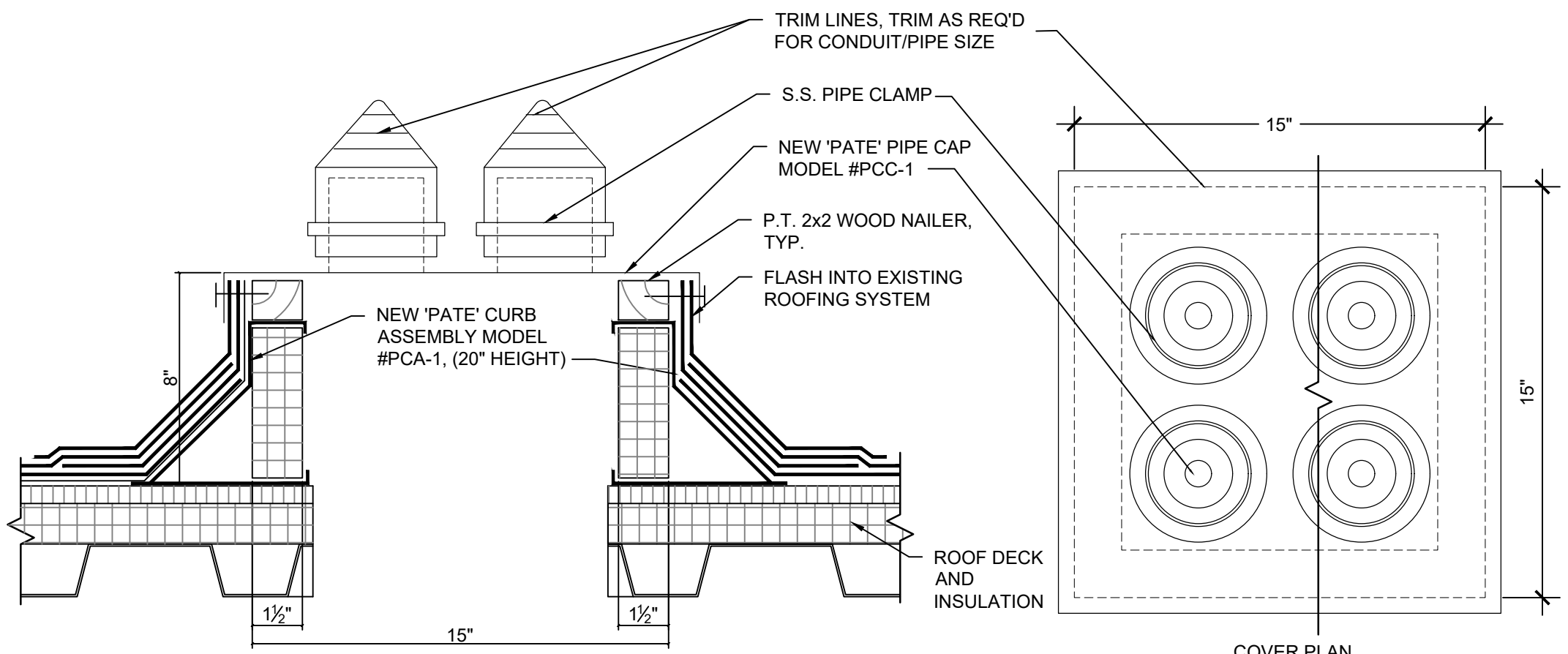
8 PIPE SUPPORTS DETAIL

N.T.S.



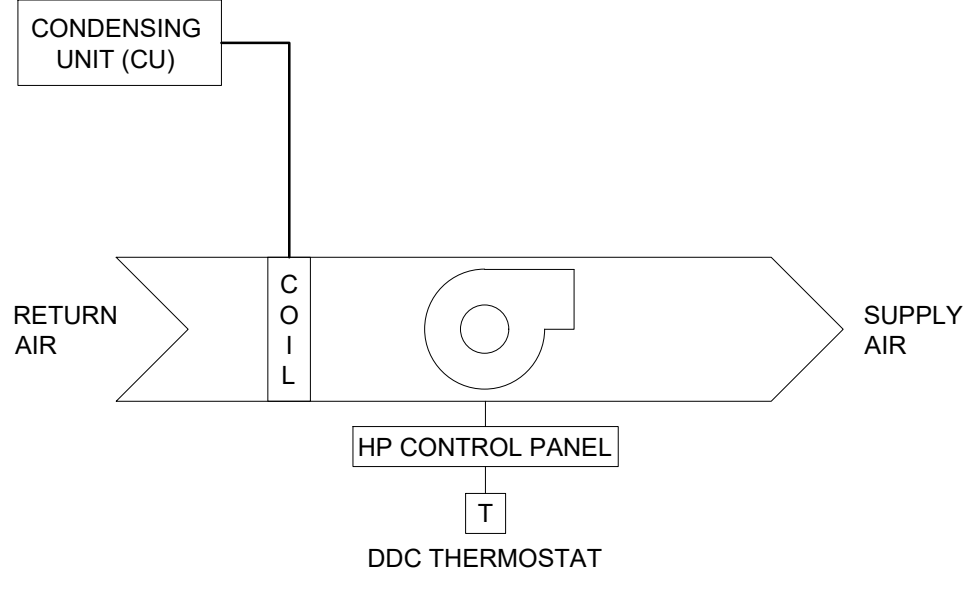
9 TYPICAL EQUIPMENT SUPPORT DETAIL

N.T.S.



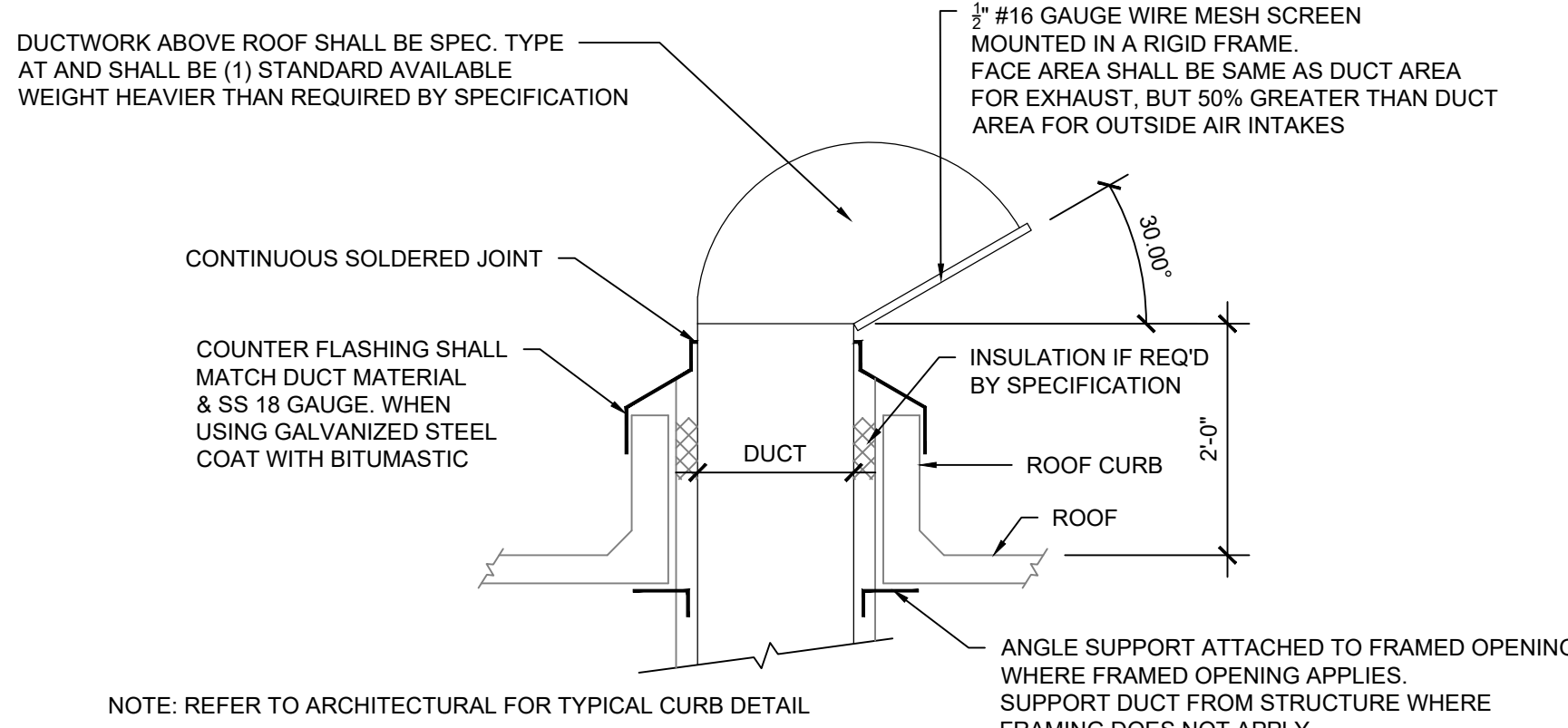
10 PIPE PORTAL DETAIL

N.T.S.



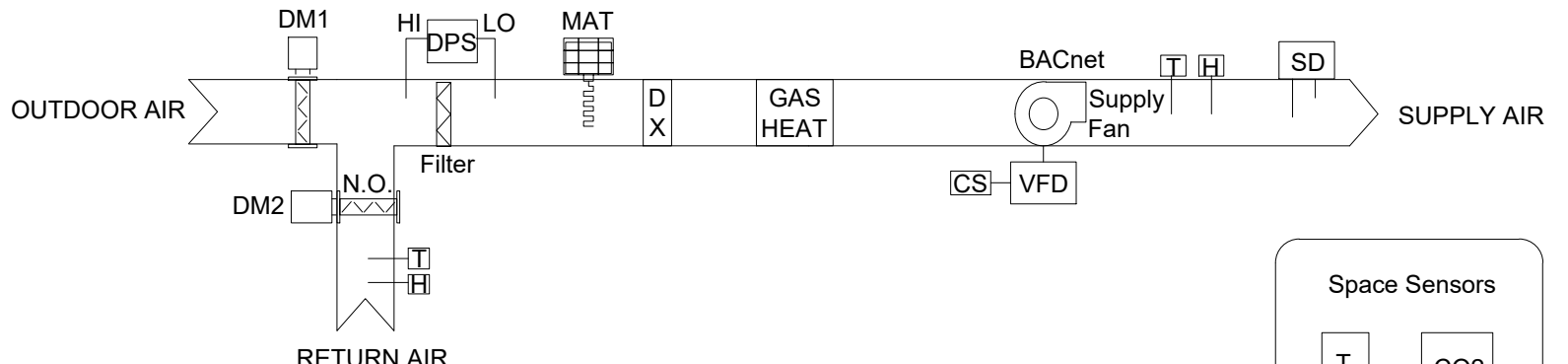
11 MINI SPLIT CONTROL DIAGRAM

N.T.S.



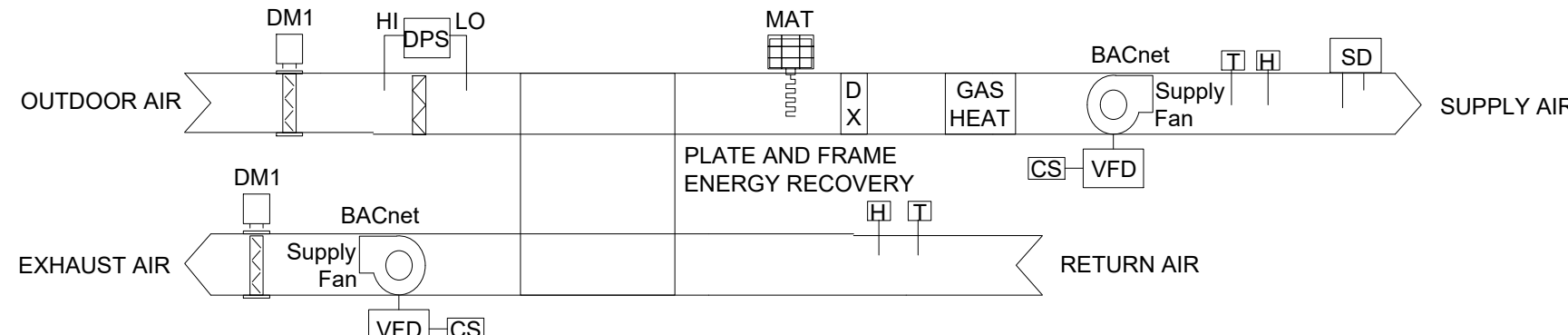
12 GOOSENECK DETAIL

N.T.S.



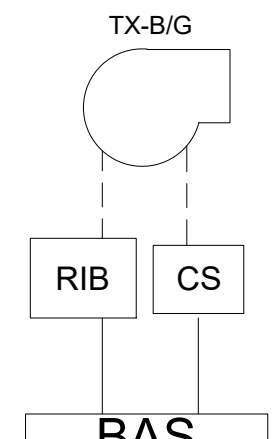
13 PACKAGED ROOFTOP UNIT CONTROL DIAGRAM (TYP.)

N.T.S.



14 DEDICATED OUTSIDE AIR SYSTEM CONTROL DIAGRAM

N.T.S.



15 EXHAUST FAN CONTROL DIAGRAM

N.T.S.

NJ Certificate of Authorization

Eng'r. No. 24027937500

Arch. No. 21A020012400

Date 07/16/26

Checked TW

Drawn MB

THOMAS WIGHARD, P.E.

PROFESSIONAL ENGINEER

License No. NJ24GE04901100

Revisions:

Engineering, Planning, Architecture, Surveying Inc.

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MECHANICAL DETAILS AND CONTROL DIAGRAMS

HOPKINS PARCEL, ATHLETIC FIELD IMPROVEMENTS

HADDONFIELD BOARD OF EDUCATION

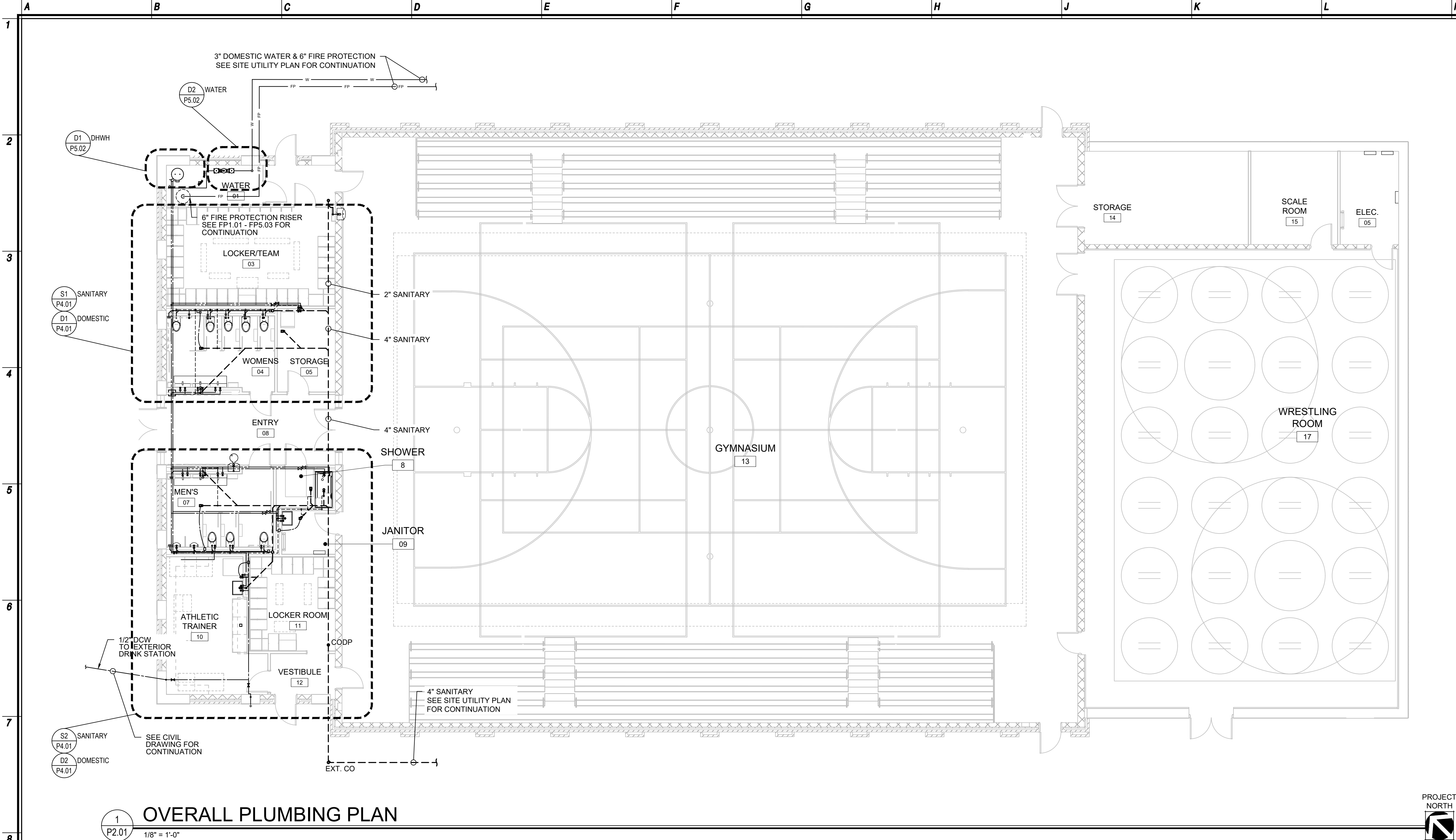
425 KINGS HIGHWAY EAST

HADDONFIELD, N.J. 08033

Job No. 2.20277.25.14

File No. 202772514M601

M6.02



1 OVERALL PLUMBING PLAN
1/8" = 1'-0"

Plumbing Abbreviations			
&	= AND	ID	= INDIRECT DRAIN
Ø	= DIAMETER OR ROUND	LAV	= LAVATORY
ADD'L	= ADDITIONAL	MAX	= MAXIMUM
AFF	= ABOVE FINISHED FLOOR	MECH	= MECHANICAL
ALT	= ALTERNATE	MIN	= MINIMUM
ARCH.	= ARCHITECTURAL	NTS	= NOT TO SCALE
BLDG	= BUILDING	OD	= OUTSIDE DIAMETER
CD	= CONDENSATE DRAIN	RPZ	= REDUCED PRESSURE BACKFLOW PREVENTER
CLG	= CEILING	SPEC	= SPECIFICATION
CO	= CLEANOUT	SS	= STAINLESS STEEL
CODP	= CLEANOUT DECK PLATE	TMV	= THERMOSTATIC MIXING
COWP	= CLEANOUT WALL PLATE	VALVE	= VALVE
DCW	= DOMESTIC COLD WATER	TYP	= TYPICAL
DHW	= DOMESTIC HOT WATER	VTR	= VENT THROUGH ROOF
DHWR	= DOMESTIC HOT WATER RETURN	W/	= WITH
DN	= DOWN	W/O	= WITHOUT
DWG	= DRAWING	WC	= WATER CLOSET
(e)	= EXISTING	WT	= WEIGHT
FD	= FLOOR DRAIN		
GPH	= GALLON PER HOUR		
HWH	= DOMESTIC HOT WATER HEATER		

General Notes

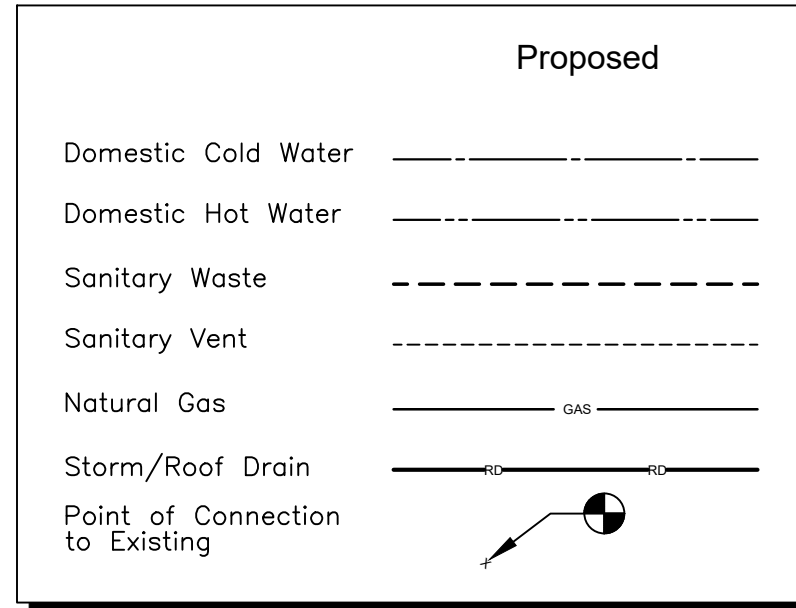
- ALL WORK SHALL CONFORM TO NEW JERSEY STATE ENERGY CODE, NATIONAL STANDARD PLUMBING CODE 2021, AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
- CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP WORK AREAS UPON COMPLETION OF WORK.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES AND INSPECTIONS PRIOR TO COMMENCING WORK. UPON COMPLETION OF WORK THE CONTRACTOR SHALL SECURE CERTIFICATE OF OCCUPANCY.
- CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.

UTILITIES NOTE:
ALL UTILITIES SHOWN ON THESE PLANS ARE SUBJECT TO A PROPER MARKOUT BY THE AUTHORITY HAVING JURISDICTION.

UTILITIES ARE SHOWN GRAPHICALLY TO GIVE AN HONEST REPRESENTATION OF THE EXISTING CONDITIONS

Plumbing General Notes

- PLUMBING CONTRACTOR SHALL VISIT JOB SITE AND NOTE ALL EXISTING CONDITIONS TO BE MET BEFORE SUBMITTING BID. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOW THE INTENT OF WORK.
- PLUMBING CONTRACTOR TO PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK, OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL FOR WORK, AND PAY FOR ANY LEGAL FEES.
- INSTALLATION TO COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL LAWS, AND ALL CODES, RULES, ORDINANCES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED IN THE WORK
- PLUMBING CONTRACTOR TO PROVIDE TEMPORARY WATER. OWNER TO PAY FOR WATER CONSUMED.
- PIPE INSTALLATION AS FOLLOWS:
 - RUN ALL PIPING CONCEALED IN CEILINGS, WALLS AND PARTITIONS
 - ALL PIPING TO BE PITCHED TO LOW POINTS WITH DRAIN VALVES, SOIL, STORM, AND WASTE TO BE SLOPED @ 1/8" PER FOOT MIN.
 - SLEEVE PIPING THAT PASSES THROUGH WALLS
 - FLASH ALL PIPING THAT PASSES THROUGH ROOF.
 - PROVIDE ROD HANGERS WITH CLEVIS PIPE SUPPORT PER NATIONAL PLUMBING CODE 2015.
 - PROVIDE VALVES REQUIRED FOR COMPLETE CONTROL OF ALL SYSTEMS. STOP VALVES FOR SUPPLY TO ALL FIXTURES TO BE CHROME PLATED WHERE EXPOSED.
 - PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES AND CLEANOUTS
- PLUMBING CONTRACTOR TO PERFORM ALL TESTING OF THE PLUMBING WORK IN THE PRESENCE OF THE OWNER. PROVIDE ALL APPARATUS, TEMPORARY CONNECTIONS, AND OTHER REQUIREMENTS TO DO SUCH TESTS. ANY DEFECTS, LEAKS, ETC. WILL BE REPLACED AND TEST REPEATED UNTIL TEST REQUIREMENTS ARE MET.
- SUBMIT SHOP DRAWINGS OF ALL WORK TO BE DONE, EQUIPMENT, AND FIXTURES FURNISHED.
- PLUMBING CONTRACTOR TO CARRY OUT PERIODIC CLEANING TO REMOVE RUBBISH ETC., TO LEAVE PREMISES FREE FROM DEBRIS, AND DISCARDED MATERIALS. AFTER INSTALLATION, CLEAN FIXTURES, FITTINGS, ETC. AND LEAVE READY FOR USE.



Plumbing System Materials

PIPING:
ABOVE GROUND WASTE & VENT PIPING SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL, SHIELDED COUPLINGS.
UNDERGROUND WASTE & VENT PIPING SHALL BE BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE WITH NEOPRENE (TY-SEAL) GASKETS.
HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SOLDER FITTINGS. SILVABRITE 100 LEAD-FREE SOLDER. HOT AND COLD WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER WITH NO FITTINGS.
GAS PIPING ABOVE GRADE SHALL BE BLACK STEEL SCHEDULE #40 WITH MALLEABLE IRON SCREWED FITTING.

INSULATION:
ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKET. REFER TO SPECIFICATIONS FOR INSULATIONS REQUIREMENTS

CLEANOUTS:
FLOOR: J.R. SMITH #4023 w/ROUND NICKEL-BRONZE TOP
WALL: J.R. SMITH #4532 w/ROUND STAINLESS STEEL TOP.

ACCESSIBLE PIPE INSULATION:
INSTALL INSULATION AT EXPOSED PIPING AT ALL LAVATORIES AS FOLLOW: LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH "HANDI LAV-GUARD" FULLY MOLDED PVC INSULATION KIT #102 BY TRUEBRO OR APPROVED EQUAL.

FIXTURE MOUNTING:
INSTALL CONCEALED ARM CARRIERS FOR ALL FIXTURES AS REQUIRED. J.R. SMITH MODEL #0700 OR APPROVED EQUAL.

****WHEN A DISCREPANCY OCCURS BETWEEN DESIGN DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL BE APPLIED FOR THE PROJECT.**

State Project#: 07-1900-X01-24-2000

NO Certificate of Authorization

Engr. No. 245427937950

Arch. No. 216200012460

Date 6/5/26

Checked TW

Drawn RJS

THOMAS WIGHARD, P.E.

PROFESSIONAL ENGINEER

License No. NAJGE04901700

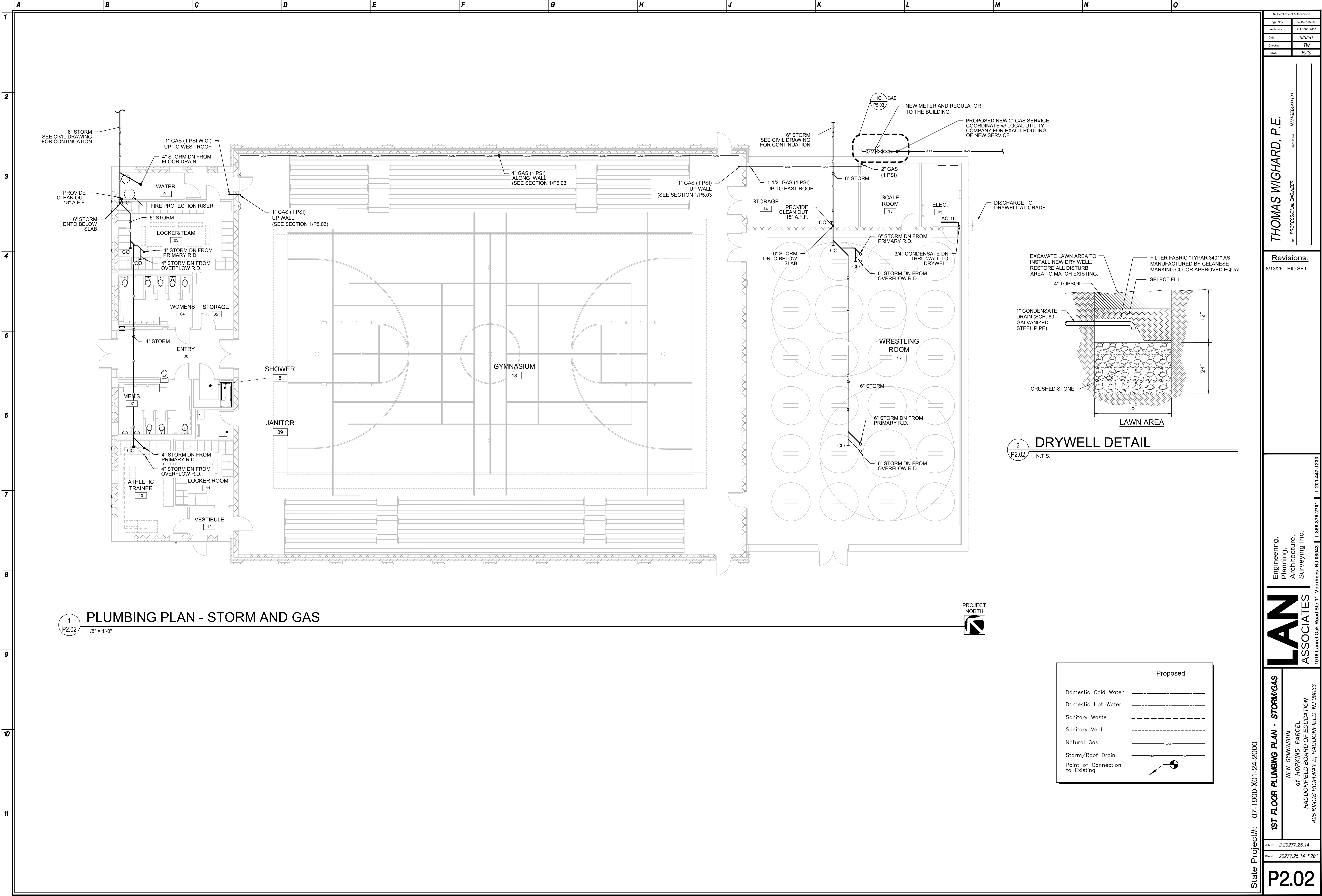
Revisions:
8/13/26 BID SET

Engineering, Planning, Architecture, Surveying Inc.
LAN ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

1ST FLOOR PLUMBING PLAN - SANDOM
NEW GYMNASIUM
of HOPKINS PARCEL
HADDONFIELD BOARD OF EDUCATION
425 KINGS HIGHWAY E, HADDONFIELD, NJ 08033

Job No. 2.20277.25.14
Rev No. 20277.25.14 P201

P2.01



100 Certificate of Authorization

Engr. No.	24542937950
Arch. No.	216200012460
Date	6/5/26
Checked	TW
Drawn	RJS

THOMAS WIGHARD, P.E.

PROFESSIONAL ENGINEER

License No. NAJGE04001100

Revisions:

8/13/26	BID SET
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Engineering,
Planning,
Architecture,
Surveying Inc.

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State Project#: 07-1900-X01-24-2000

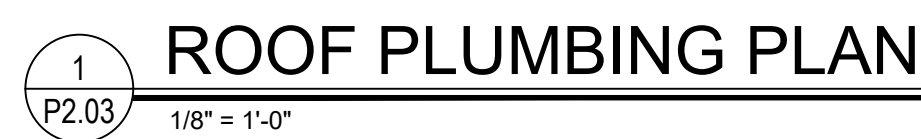
1ST FLOOR PLUMBING PLAN - STORM/GAS

NEW GYMNASIUM
at HOPKINS PARCEL
HADDONFIELD BOARD OF EDUCATION
425 KINGS HIGHWAY E, HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

Rev No. 20277.25.14 P201

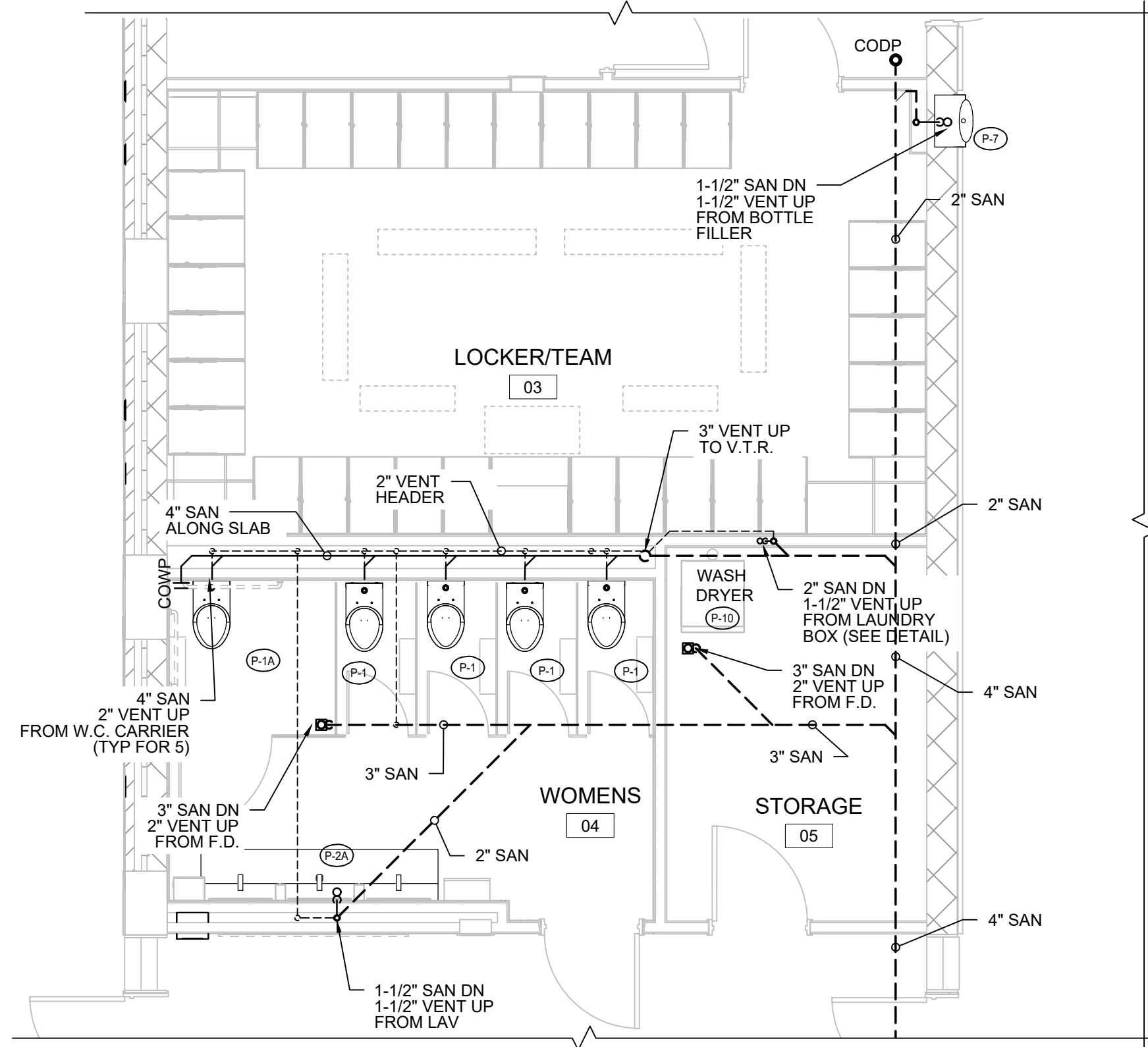
P2.02



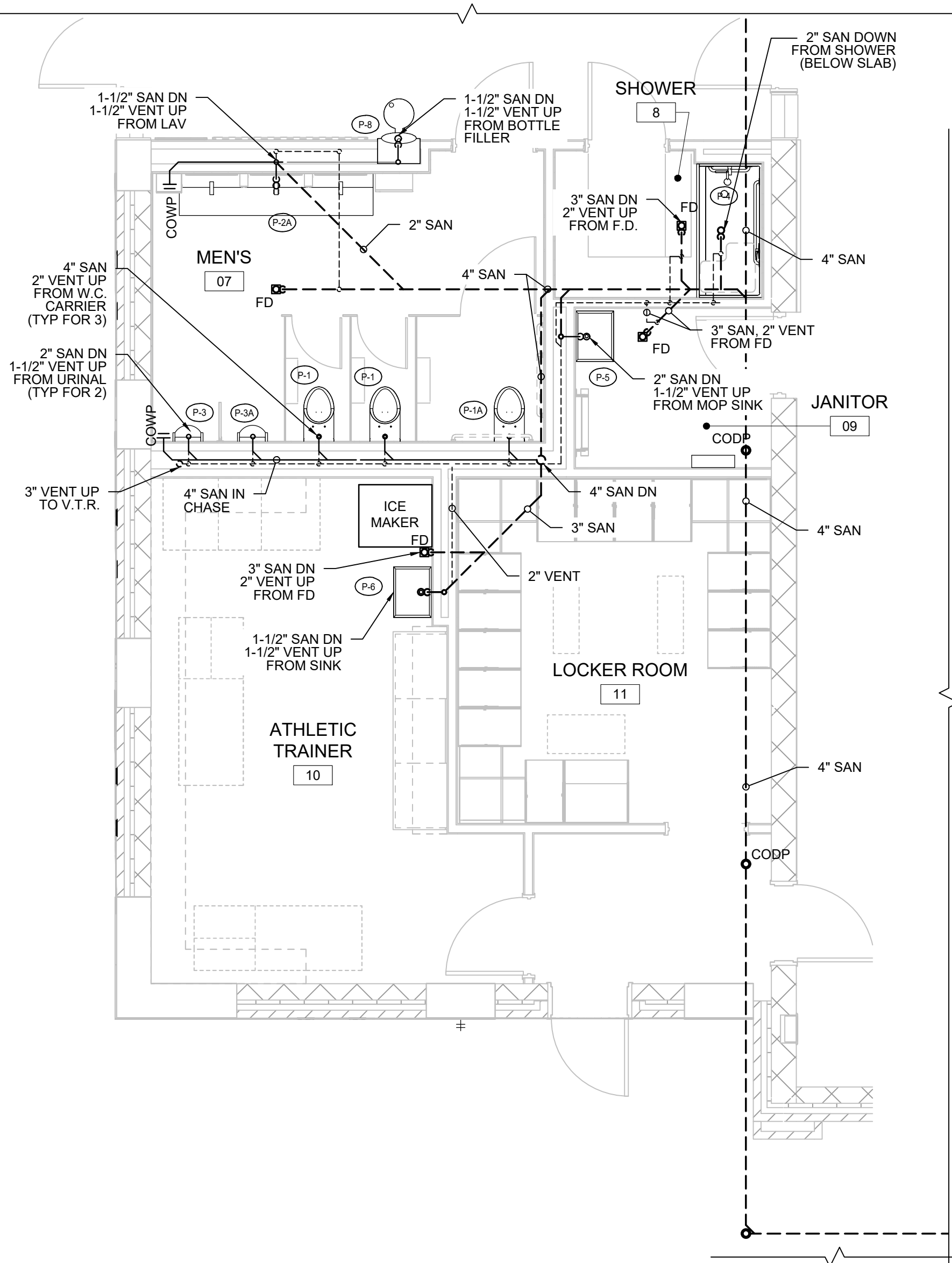
3" ROOF DRAIN = 1,071 S.F. OF ROOF AREA
4" ROOF DRAIN = 1,444 S.F. OF ROOF AREA
5" ROOF DRAIN = 2,637 S.F. OF ROOF AREA

P2.03

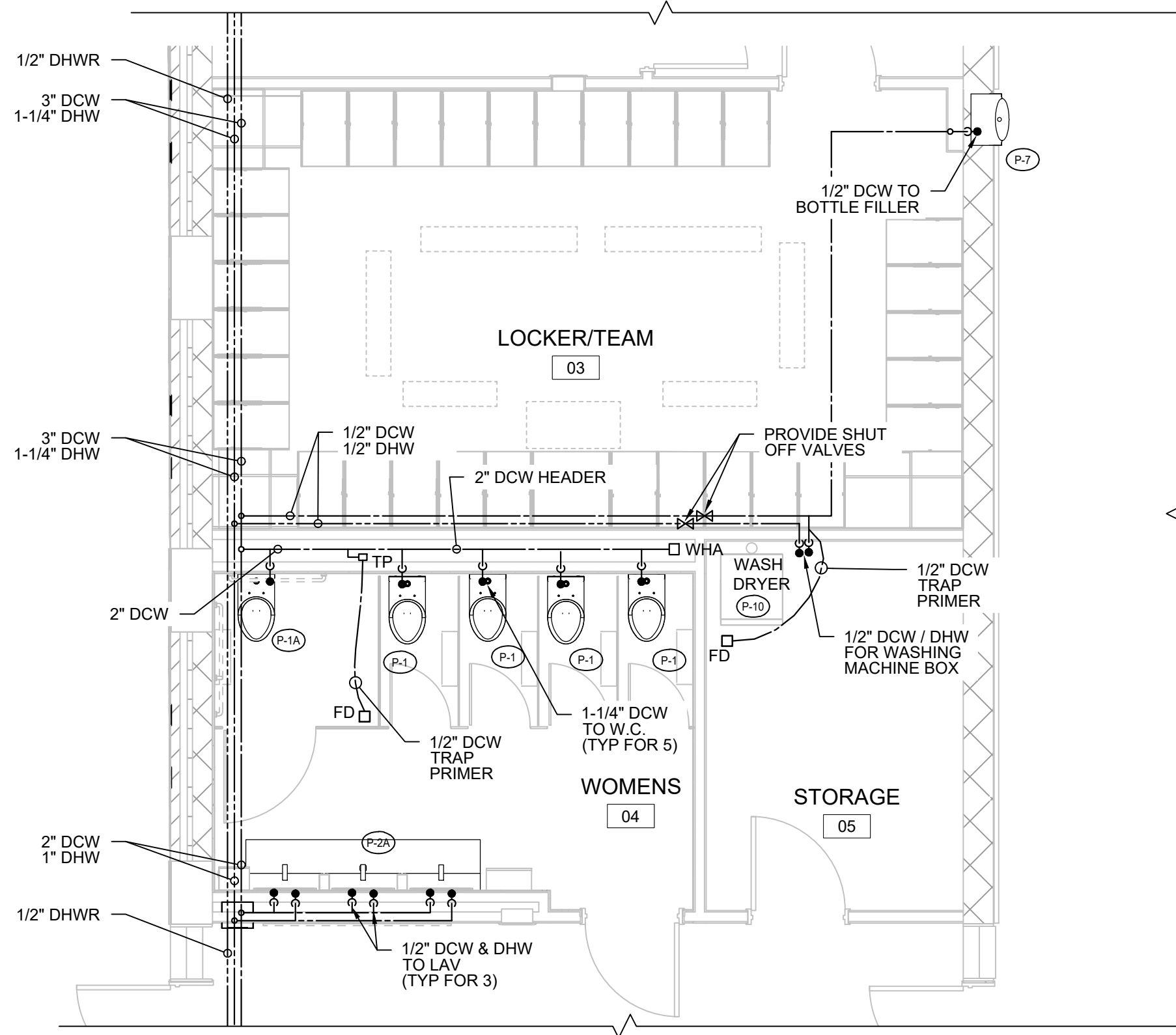
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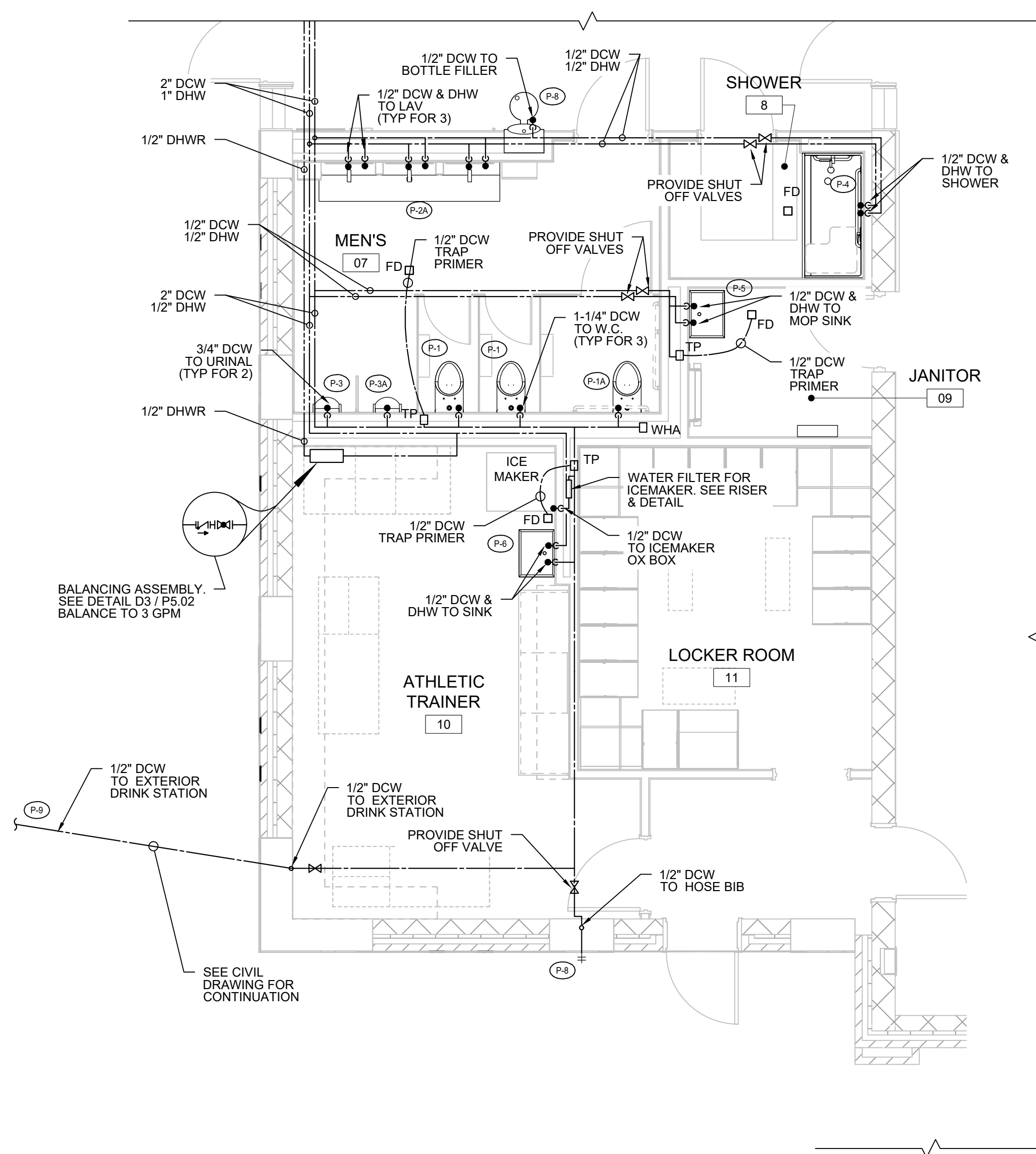
S1
P4.01 **ENLARGED PLUMBING PLAN - WOMEN'S/STOR**
1/4" = 1'-0" **SANITARY/VENTING**



S2
P4.01 **ENLARGED PLUMBING PLAN - MEN'S/SHOWER/JAN/TRAINER**
1/4" = 1'-0" **SANITARY/VENTING**



D1
P4.01 **ENLARGED PLUMBING PLAN - WOMEN'S/STOR**
1/4" = 1'-0" **DOMESTIC WATER**



D2
P4.01 **ENLARGED PLUMBING PLAN - MEN'S/SHOWER/JAN/TRAINER**
1/4" = 1'-0" **DOMESTIC WATER**

Proposed	
Domestic Cold Water	_____
Domestic Hot Water	_____
Sanitary Waste	_____
Sanitary Vent	_____
Natural Gas	_____ GAS _____
Storm/Roof Drain	_____
Point of Connection to Existing	

State Project#: 07-1900-X01-24-2000

ENLARGED PLUMBING PLANS
NEW GYMNASIUM
at HOPKINS PARCEL
HADDONFIELD BOARD OF EDUCATION
425 KINGS HIGHWAY E, HADDONFIELD, NJ 08033

LAN ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

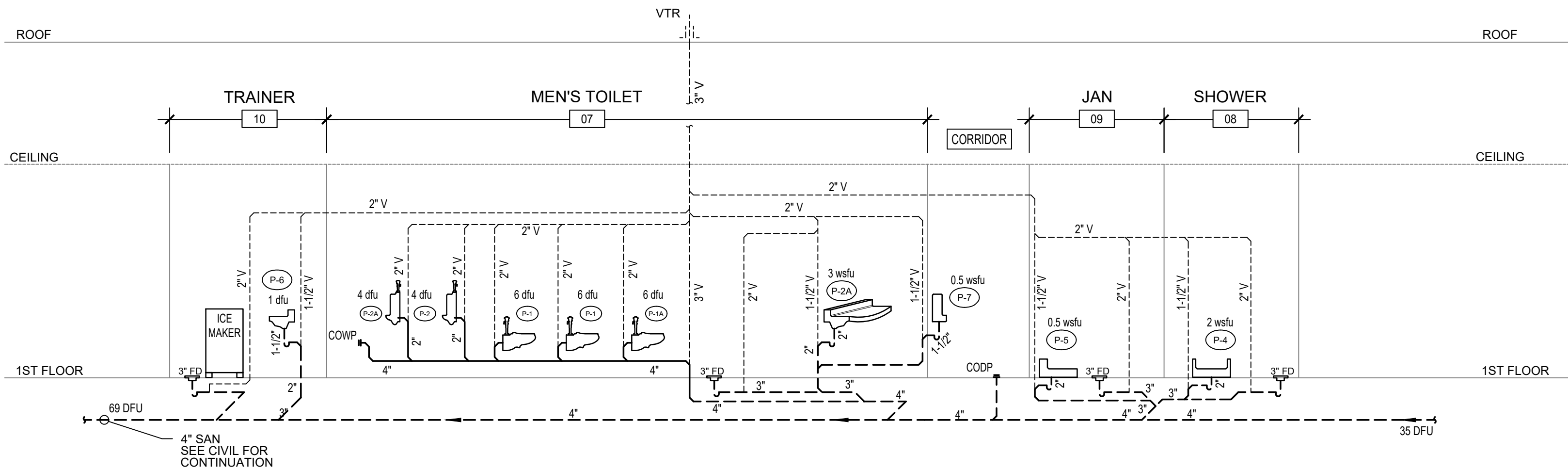
Engineering,
Planning,
Architecture,
Surveying Inc.

Revisions:
8/13/26 BID SET

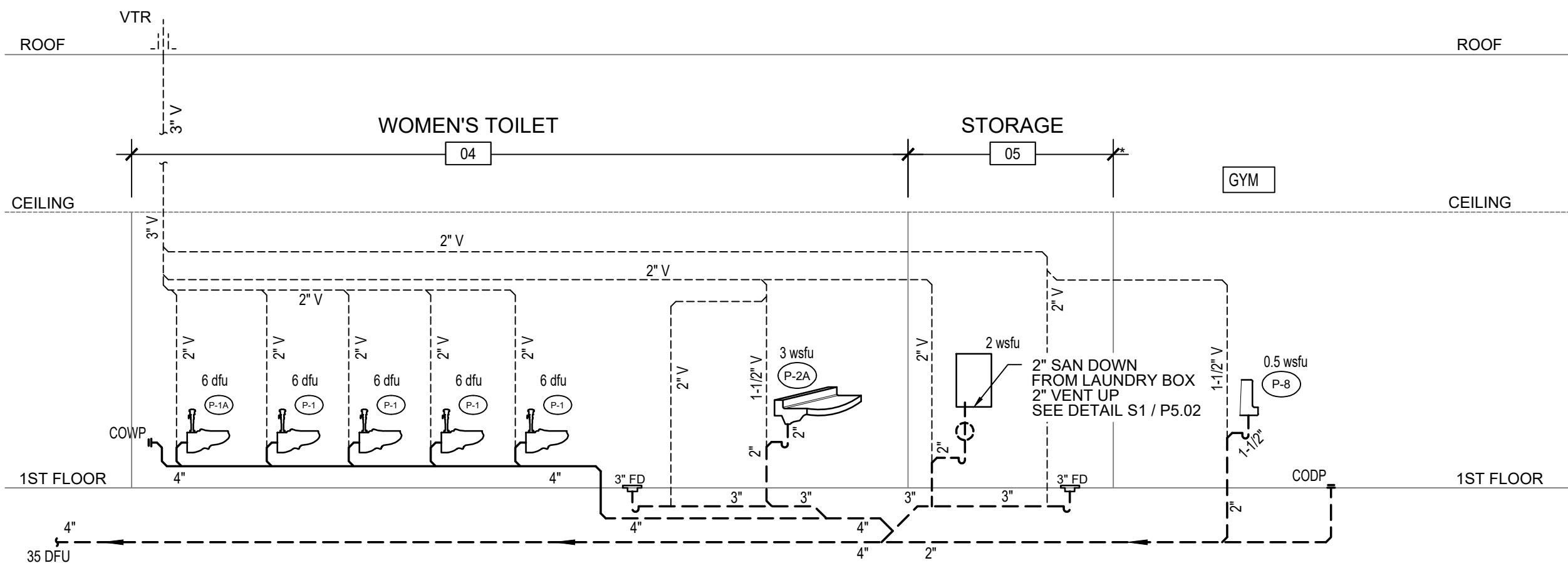
THOMAS WIGHARD, P.E.
PROFESSIONAL ENGINEER
NJ REG. NO. NAJGE04001100

NJ Certificate of Authorization
Engr. No. 24G27937950
Arch. No. 21AC00012400
Date 6/5/26
Checked TW
Drawn RJS

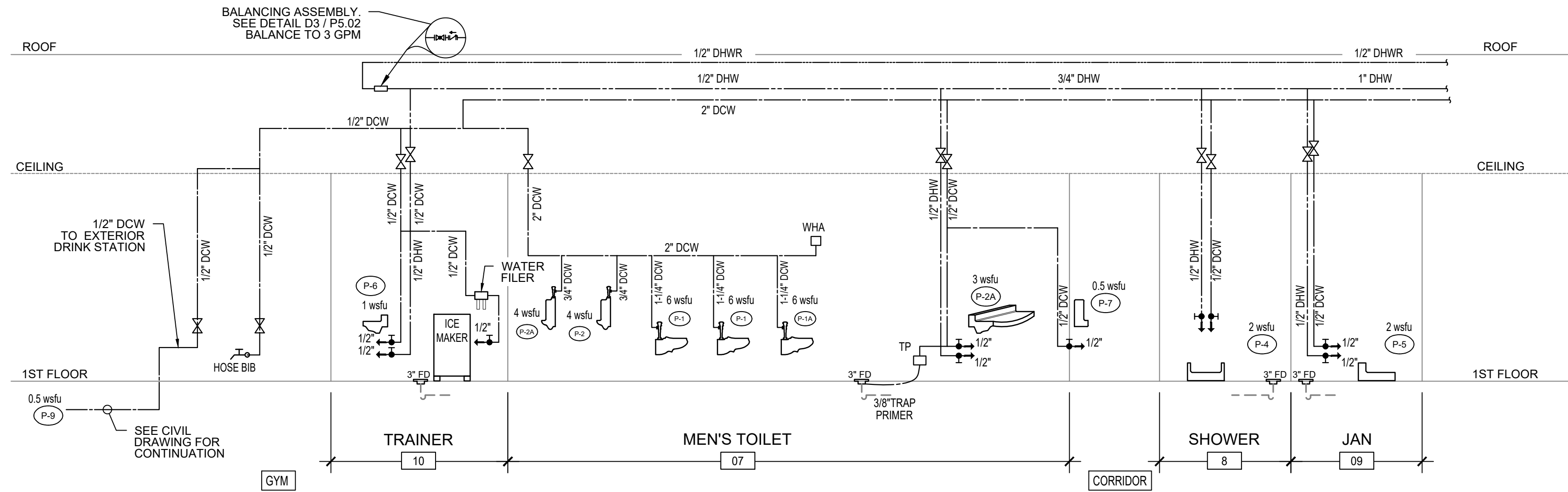
P4.01



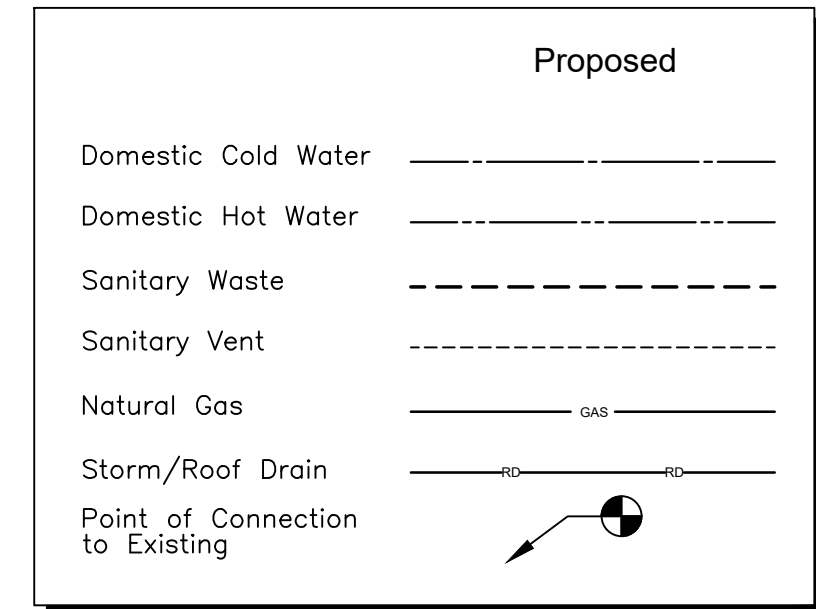
S1
P5.01
N.T.S.
SANITARY & VENTING RISER



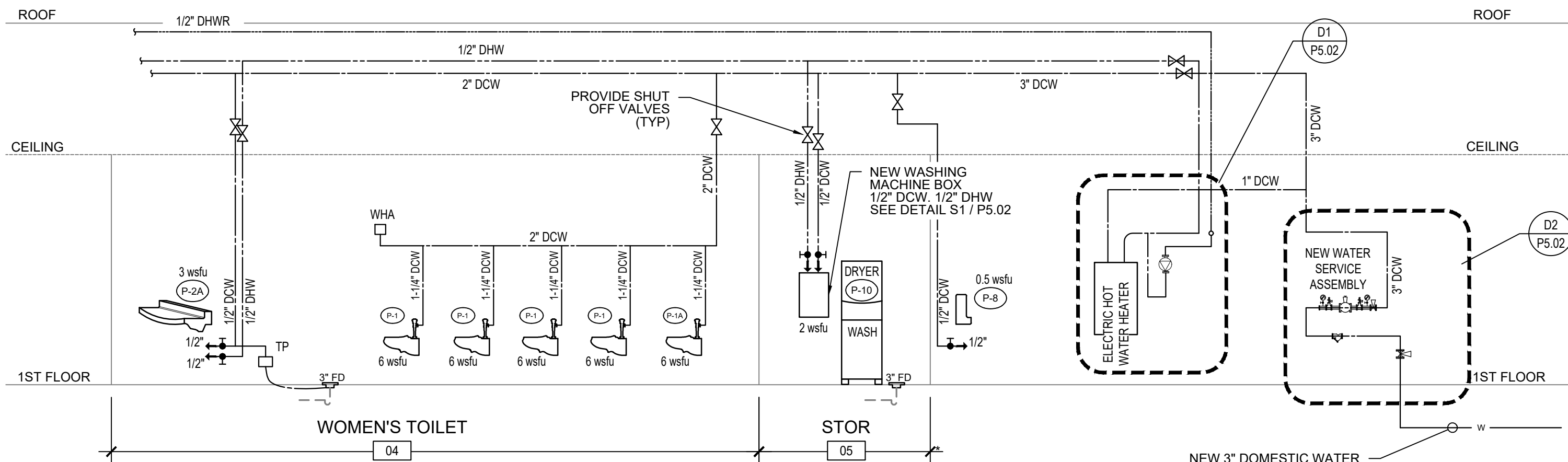
PROVIDE SLOPE OF 1/4" PER FOOT FOR SANITARY PIPE SIZES 3" & SMALLER. PROVIDE SLOPE OF 1/8" PER FOOT FOR SANITARY PIPE SIZES 4" & LARGER. (TYP.)



D1
P5.01
N.T.S.
DOMESTIC WATER RISER - MEN'S/TRAINER/JAN



DOMESTIC WATER PIPING HAS BEEN SIZED ACCORDING TO NSPC 2018-NJ, TABLE B.7.3.C (4-FPS)

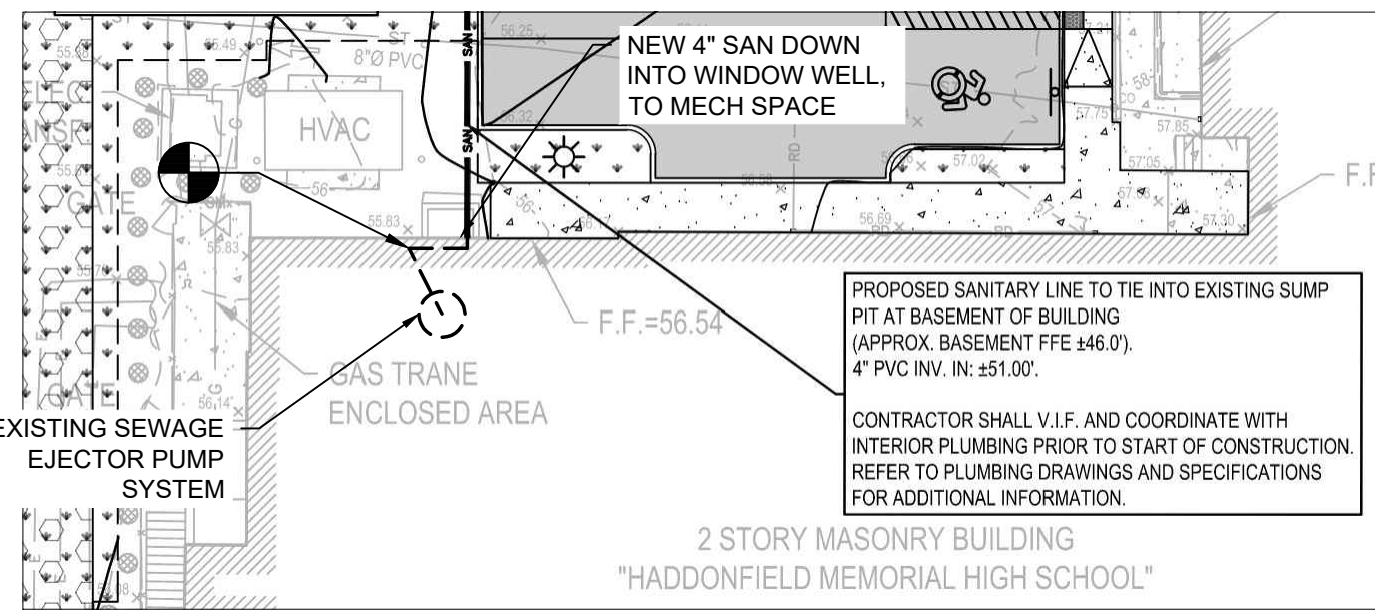


D2
P5.01
N.T.S.
DOMESTIC WATER RISER - WOMEN'S / STORAGE

DOMESTIC WATER



S2
P5.01
N.T.S.
SANITARY ROUTING AT SEWAGE EJECTOR PUMP



EXCERPT FROM C4.01
N.T.S.

BUILDING SECTION - DOM WATER ROUTING

NOTE:
WATER SUPPLY CONNECTIONS FROM WALL
BOXES TO AUTOMATIC CLOTHES WASHERS SHALL
BE MADE WITH FLEXIBLE STAINLESS STEEL HOSES

NOTES

1. ALL THREADED PIPING BETWEEN UNIONS SHALL BE BRASS.
2. INSTALL DI-ELECTRIC UNIONS FOR PIPING CONNECTIONS OF DISSIMILAR METALS

ELECTRIC DHW HEATER SCHEDULE						(A.O. SMITH AS STANDARD)
TAG No.	STORAGE (GAL)	INPUT (KW)	RECOVERY RATE @ 90°F RISE (GPH)	ELECTRIC DATA VOLT/PH/Hz	MODEL & MANUFACTURER	REMARKS
DHWH-1	40	24.0	21	480/3/60	ENT-40 A.O. SMITH	SEE NOTES:
NOTE: PROVIDE TEMPERATURE & PRESSURE RELIEF VALVE. SEE DETAIL FOR ALL REQUIRED VALVES, GAUGES, ACCESSORIES, ETC. HOLDRITE QUICK STAND WALL MOUNTED EQUIPMENT PLATFORM MODEL #50-SWHP-WM						

NOTES:	
1.	THE DIAGRAM IS SCHEMATIC ONLY. INSTALL EQUIPMENT & PIPING IN ACCORDANCE W/ THE MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS.
2.	PROVIDE ALL REQUIRED PIPING, VALVES, PIPE ELBOWS, FITTINGS, ETC.
3.	PROVIDE ALL REQUIRED DIELECTRIC FITTINGS FOR CONNECTIONS OF DISSIMILAR METAL PIPING.

Diagram illustrating the water service connection details:

- 8"± CEILING**: Indicated at the top of the vertical riser.
- MECHANICAL**: A box with a minus sign (-) is shown on the ceiling.
- 3" CW TO BUILDING**: A horizontal pipe segment with a **TEST VALVE**.
- WATER PRESSURE REGULATOR**: Set at 60 PSI MAX.
- PRESSURE GAUGE (TYP.)**: Connected to the regulator.
- 1'-0"**: Vertical distance from the ceiling to the floor level.
- 3'-6"**: Vertical distance from the floor level to the meter enclosure.
- FLOW**: Indicated by an arrow pointing down.
- TEST VALVE**: Located on the vertical riser pipe.
- STRAINER**: Located on the vertical riser pipe.
- 3" SHUT OFF VALVE**: Located on the vertical riser pipe.
- FLOOR**: Indicated at the base of the vertical riser.
- NEW 3" DOMESTIC WATER SERVICE FROM RPZ/WATER METER ENCLOSURE**: Indicated at the bottom of the vertical riser.



Gas Piping Notes

1. ALL ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS.
2. PIPING SHOULD BE RIGIDLY MOUNTED AND PROTECTED AGAINST VIBRATION.
3. INSTALLED PIPING SHALL BE PROPERLY PURGED AND LEAK TESTED, IN ACCORDANCE WITH APPLICABLE STANDARDS.
4. CONTRACTOR IS REQUIRED TO COORDINATE WITH LOCAL UTILITY COMPANY TO PROVIDE MINIMUM GAS PRESSURE OF 0.5 PSI. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS.
5. ALL GAS PRESSURE REGULATORS SHALL BE LOCKUP TYPE.
6. PROVIDE GAS SHUT-OFF BALL VALVE FOR PIPE SIZES 2-1/2" AND SMALLER.
7. ALL GAS PIPING SHALL BE PAINTED (1 PRIMER AND 2 FINISH COATS).

RTU Gas Connection Detail

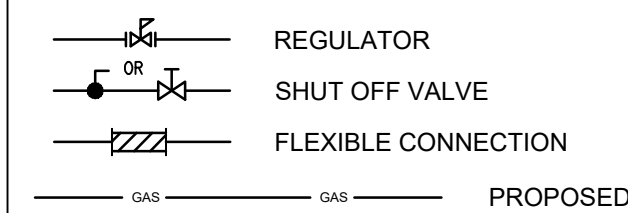
Gas Pipe Roof Support Detail

Gas Entry Through Roof Detail

Pipe Wall Support Detail

NOTES:

1. CONTRACTOR TO PROVIDE 1/2" VENT FOR ALL INDOOR GAS PRESSURE REGULATORS. PIPE VENT RELIEF TO ATMOSPHERE. COORDINATE W/ LOCAL UTILITY COMPANY FOR GAS PRESSURE REGULATOR VENTING REQUIREMENTS.
2. GAS PIPE SIZES BASED ON 2021 IFGC TABLE 402.4(1) "SCHEDULE 40 METALLIC PIPE" FOR INLET PRESSURE LESS THAN 2 PSI WITH A PRESSURE DROP OF 0.3" W.C.

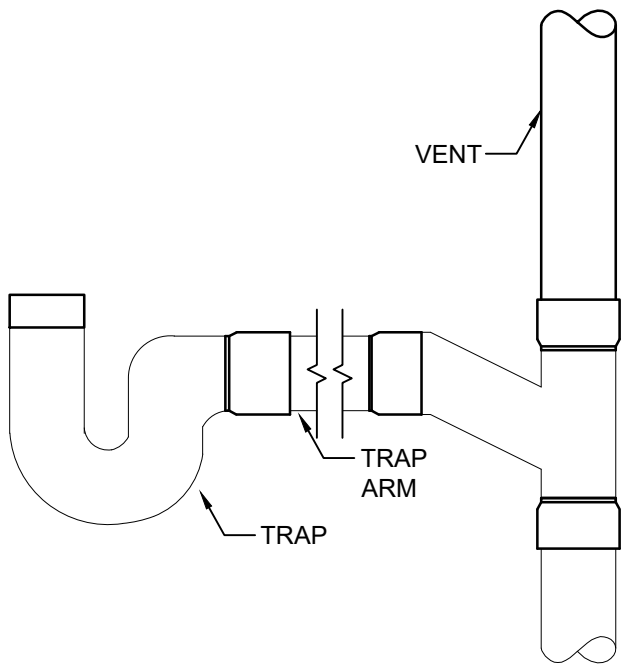


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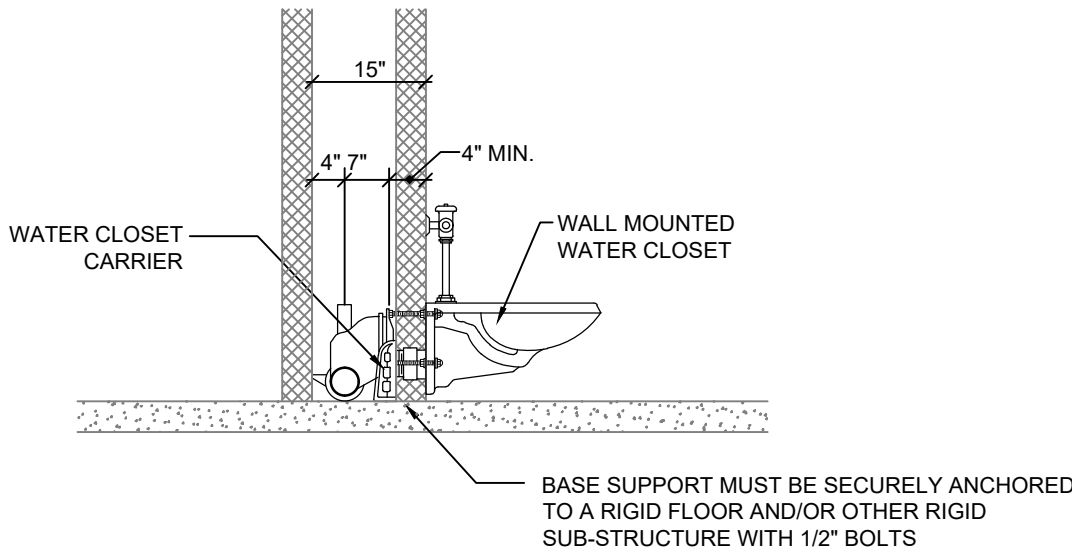
A B C D E F G H J K L M N O

PLUMBING FIXTURE SCHEDULE

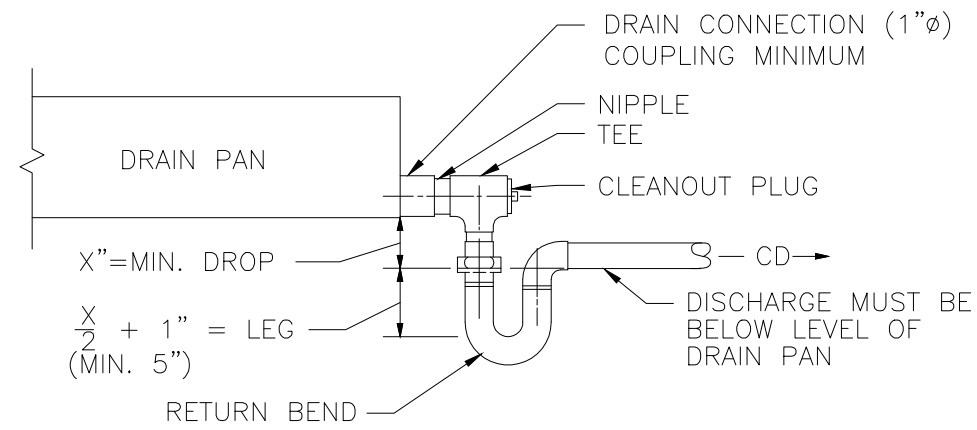
NUMBER	FIXTURE	MANUFACTURER	TYPE & MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT	PIPE SIZES					DFU	WSFU	DESCRIPTION
								TRAP	WASTE	VENT	CW	HW			
P-1	WATER CLOSET	KOHLER	KINGSTON K-4325	SLOAN ROYAL 11-SMO 1.1.28			WALL MTD	INT	4"	2"	1-1/4"		5	5	WALL-MOUNTED ELONGATED FLUSH VALVE TOILET w/ EVERCLEAN, TOP SPUD & 1.28 GPF. COLOR SHALL BE WHITE. PROVIDE w/ KOHLER #4731 HEAVY-DUTY OPEN FRONT SEATLESS COVER, BATTERY POWERED SENSOR FLUSHOMETER. (P-1A) INSTALL TO MEET ADA REQUIREMENTS
P-2	TROUGH LAVATORY	SLOAN	DSG-8300 3 STATION	SLOAN EAF-200-HLT-BS-0.5GPM AER-IR-IQ-FCT	McGUIRE LF158	McGUIRE 8902C	WALL MTD	1-1/4 x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	1	1	SLOAN TROUGH SINK. PROVIDE THE FOLLOWING: FAUCET # EAF-200-HLT-BS-0.5GPM-AER-IR-IQ-FCT, NO CUTOUT FOR SOAP DISP. KOHLER ESCUTCHEON PLATE #K-13478. INSTALL ADA LAV. TO MEET ADA HEIGHT REQUIREMENTS. WATTS UNDERSINK GUARDIAN MODEL LFUSG-B(ASSE 1070) FOR EA. FAUCET TO LIMIT OUTLET TEMP TO 110°F MAX. COLOR BY OWNER. INSTALL/SUPPORT PER MANUFACTURERS RECOMMENDATIONS.
P-3	URINAL	KOHLER	K-4991-ET-0	SLOAN 8186-.25			WALL MTD	INT	1-1/2"	1-1/2"	3/4"		4	4	WALL-MOUNTED FLUSH VALVE URINAL w/ EVERCLEAN, TOP SPUD & 0.25 GPF. COLOR SHALL BE WHITE. BATTERY POWERED SENSOR. FLUSHOMETER. (P-3A) INSTALL TO MEET ADA REQUIREMENTS
P-4	SHOWER STALL	FREEDOM SHOWERS	APF6232BF5P	SYMMONS - UNITY 6603-TRM				2"	2"	1-1/2"	1/2"	1/2"	2	2	FURNISH & INSTALL FIVE (5) PIECE MOLDED SHOWER STALL. PROVIDE SOAP DISH, CURTAIN & ROD, WALL MOUNTING HARDWARE. SEE ARCH DWGS FOR ADA ACCESSORIES. CONFIRM FINISH w/ARCH & 2" NO-CAULK BRASS DRAIN. INSTALL TO MEET ADA REQUIREMENTS
P-5	JANITOR MOP SINK	MUSTEE	63M	MUSTEE 63.600A				2"	2"	1-1/2"	1/2"	1/2"	2	2	MOP BASIN WITH BUMPER GUARDS AND WALL GUARDS ON TWO SIDES. WITH CHROME PLATED 3 " DRAIN AND TRAP. FAUCET SHALL INCLUDE PAIL HOOK AND ATMOSPHERIC VACUUM BREAKER SPOUT. FURNISH 5'-0" LENGTH OF 5-PLY GARDEN HOSE AND FITTINGS.
P-6	TRAINER'S SINK	ELKAY	DRKAD222055R	ELKAY LKD2439BHC	McGUIRE LF158	McGUIRE 8902C	DROP IN	1-1/4 x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	1	1	22" x 19-1/2" x 5-1/2" 18 GA. 304 STAINLESS STEEL SINK. PROVIDE w/ FAUCET w/ 4" LEVER HANDLES, ELKAY STRAINER & TAILPIECE #LK18B. WATTS TMV #LFUSG-B. INSTALL TO MEET ADA REQUIREMENTS.
P-7	BOTTLE FILLER	ELKAY	LZWSM8K						1-1/2"	1-1/4"	1/2"	--	1	0.5	ELKAY ezH2O IN-WALL BOTTLE FILLING STATION WITH MOUNTING FRAME w/ SINGLE ADA REFRIGERATED COOLER, 8GPH, LIGHT GRAY. PROVIDE w/ FAUCET w/ 4" LEVER HANDLES, BUBBLER MODULE #LK1141A, ELKAY STRAINER & TAILPIECE #LK18B. WATTS TMV #LFUSG-B, & ELKAY IN-LINE WATER FILTER KIT MODEL #EWF3000 w/ FILTER #51300C INSTALL TO MEET ADA REQUIREMENTS.
P-8	DRINK FOUNTAIN w/ BOTTLE FILLER BI-LEVEL	ELKAY	LZWS-LRPBM8K -W1						1-1/2"	1-1/4"	1/2"	--	1	0.5	FOUNTAIN WITH INTEGRAL BOTTLE FILLING STATION w/ SINGLE ADA REFRIGERATED COOLER, 8GPH, LIGHT GRAY. PROVIDE w/ FAUCET w/ 4" LEVER HANDLES, BUBBLER MODULE #LK1141A, ELKAY STRAINER & TAILPIECE #LK18B. WATTS TMV #LFUSG-B, & ELKAY IN-LINE WATER FILTER KIT MODEL #EWF3000 w/ FILTER #51300C INSTALL TO MEET ADA REQUIREMENTS.
P-9	EXTERIOR BOTTLE FILLER BI-LEVEL w/ PET STATION	ELKAY	LK4420BF1DBFRK		McGUIRE LF158	McGUIRE 8902C	WALL MTD		1-1/2"	1-1/4"	1/2"	--	1	0.5	OUTDOOR EZH2O LOWER BOTTLE FILLING STATION BI-LEVEL PEDESTAL WITH PET STATION NON-FILT / NON-REFRIG FREEZE RESISTANT. PROVIDE DIRECT BURY ADAPTOR 97890C
P-10	STACKED WASHER/DRYER	GE	GUD27EESN							1-1/2"	1/2"	1/2"			COMBINATION WASHER/ ELECTRIC DRYER. 208V / 30A. SEE INSTALLATION INSTRUCTIONS PACKED WITH THE PRODUCT.
F.D.	3" FLOOR DRAIN	J.R. SMITH	2110Y	--	--	P-TRAP	--	3"	3"	2"	--	--			FLOOR DRAIN w/ HINGED GRATE, SEDIMENT BUCKET, NICKEL BRONZE ROUND TOP & J.R. SMITH QUAD CLOSE TRAP SEAL.



1 TRAP DETAIL
P6.01 / N.T.S.



2 WALL MOUNT W.C. DETAIL
P6.01 / N.T.S.

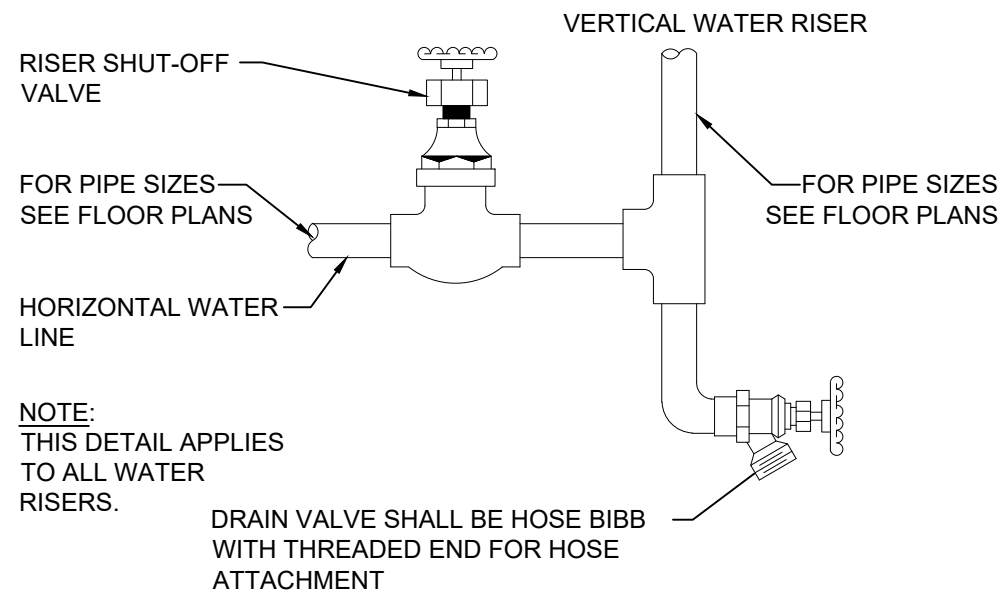


X = NEGATIVE INTERNAL STATIC PRESSURE AT FAN INLET.

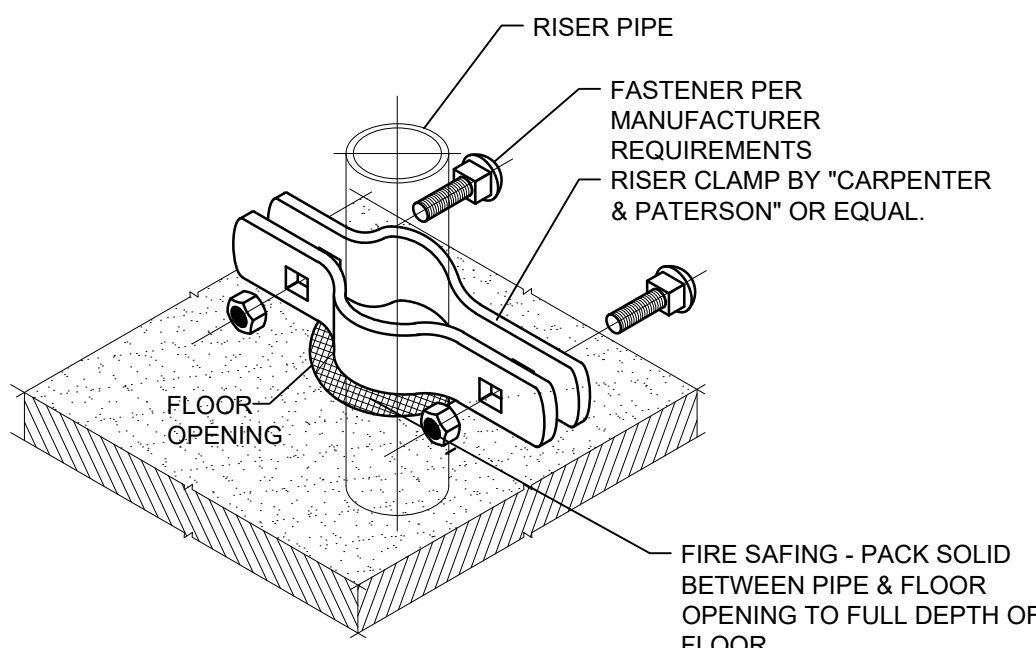
NOTES:

1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP
2. PITCH DRAIN FOR PROPER RUN - OFF.
3. MANUALLY, PRIME FILL TRAP BEFORE STRT - UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGHTY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.

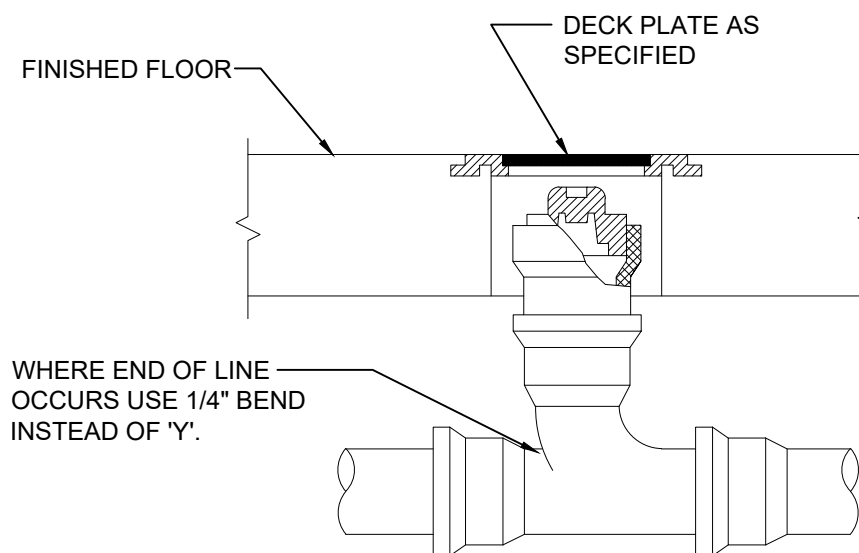
3 CONDENSATE DRAIN TRAP DETAIL
P6.01 / N.T.S.



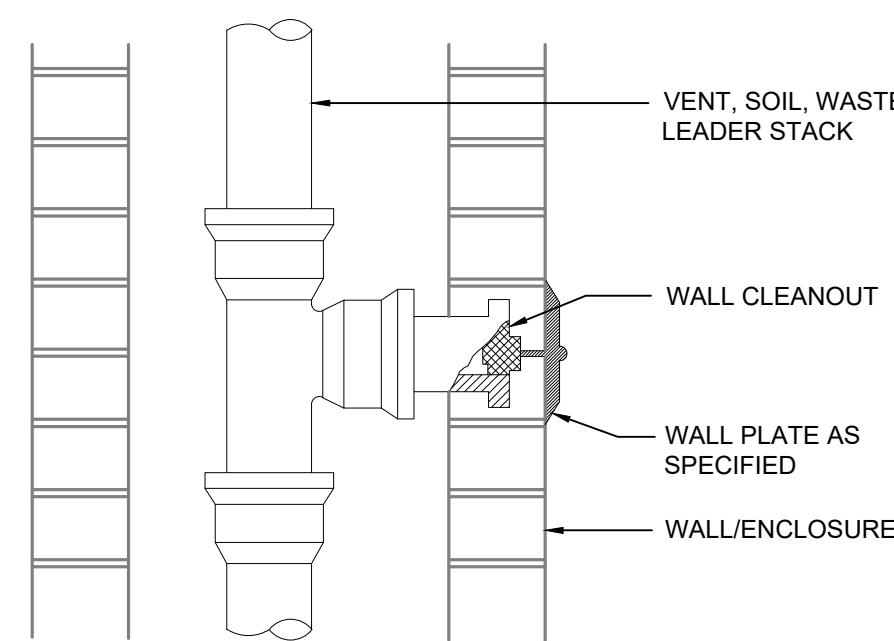
4 RISER STOP & DRAIN VALVE
P6.01 / N.T.S.



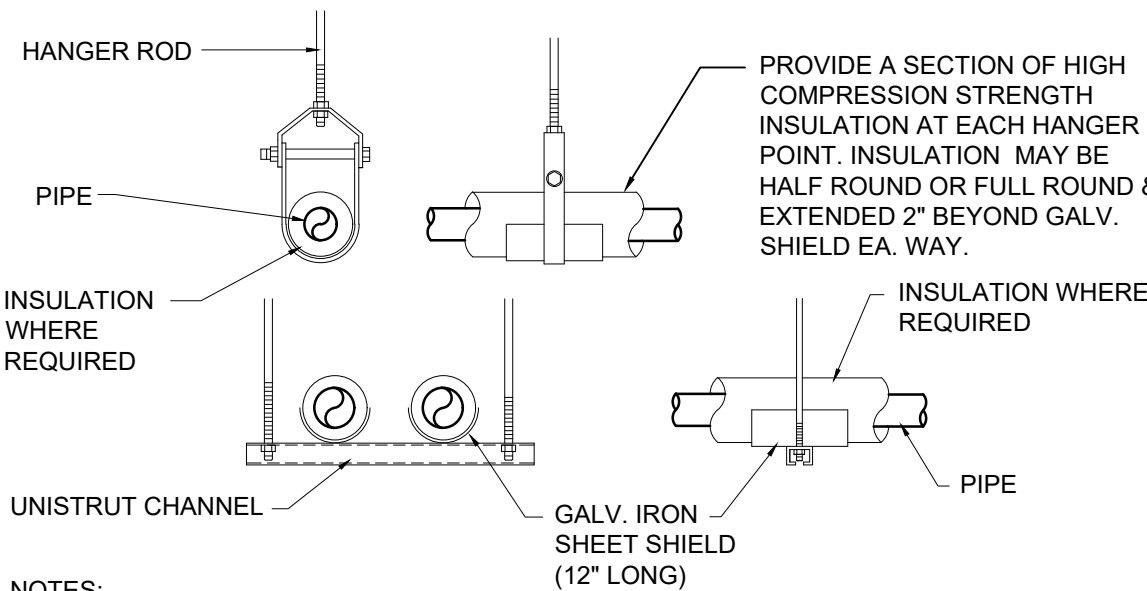
5 PIPE RISER CLAMP
P6.01 / N.T.S.



6 FLOOR CLEANOUT DETAIL
P6.01 / N.T.S.



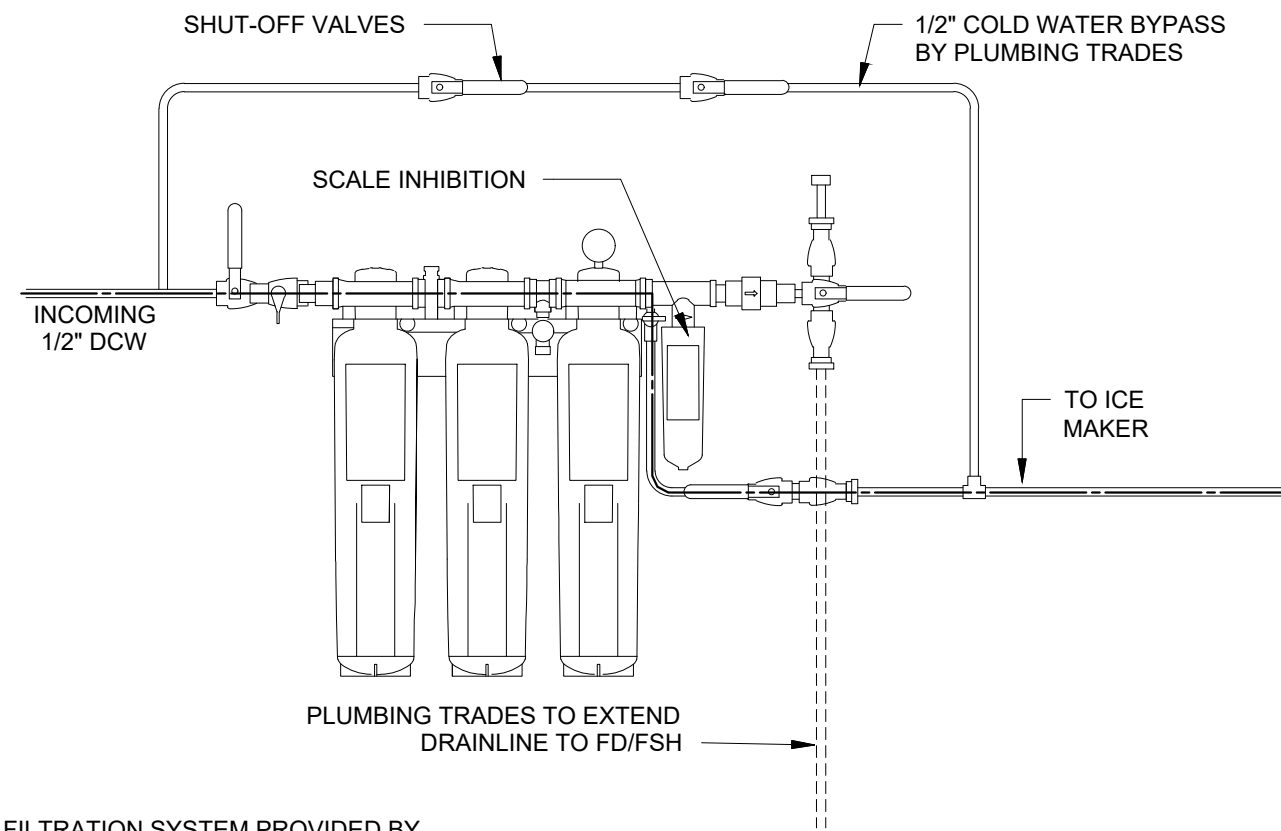
7 WALL CLEANOUT DETAIL
P6.01 / N.T.S.



NOTES:

1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

9 PIPE SUPPORT HANGERS
P6.01 / N.T.S.



11 WATER FILTER DETAIL
P6.01 / N.T.S.

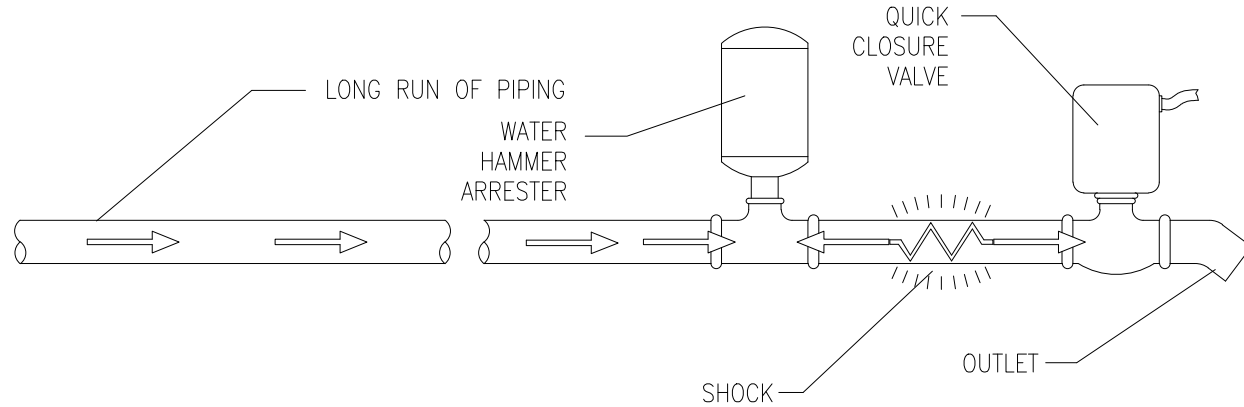


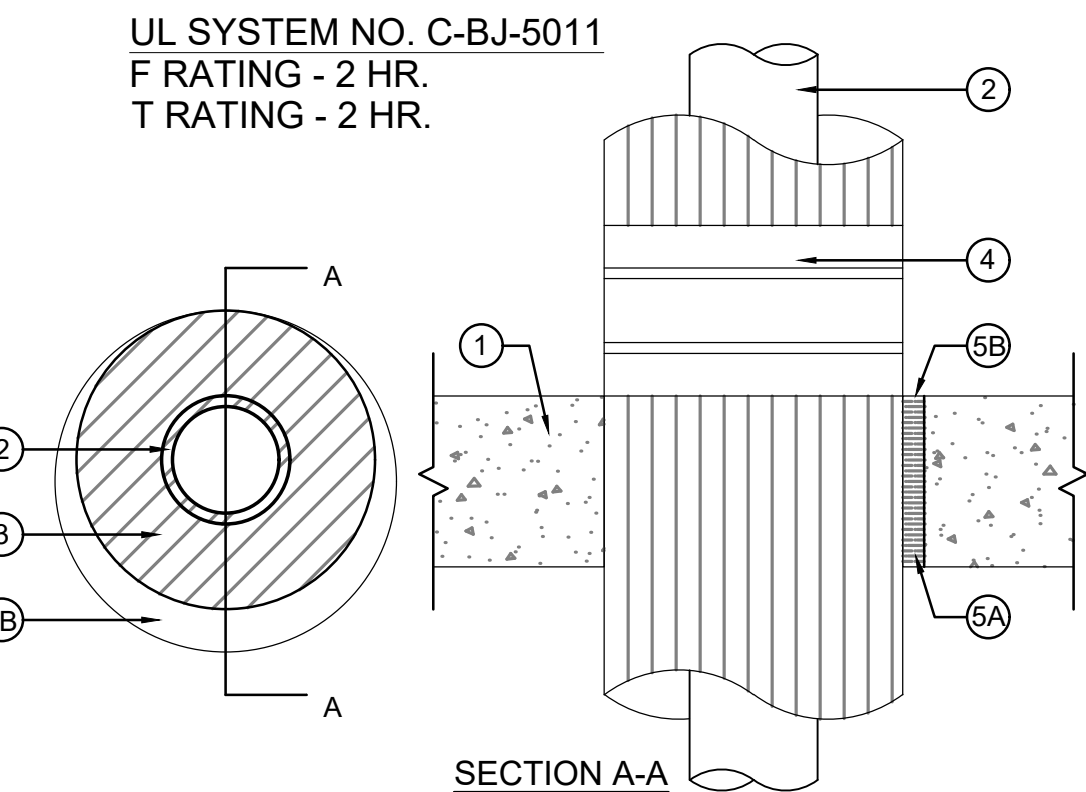
TABLE 3 INDICATES THE SIZE OF THE WATER ARRESTER REQUIRED FOR LONG RUNS OF PIPING WHICH FEED A SINGLE REMOTE FIXTURE OR APPLIANCE. THE WATER ARRESTER UNIT SHOULD BE SIZED BY USING TABLE 3 AND LOCATED AS CLOSE TO THE POINT OF QUICK CLOSURE AS POSSIBLE.

LENGTH OF PIPE	NOMINAL PIPE SIZE				
	1/2"	3/4"	1"	1 1/4"	2"
25'	5005	5005	5010	5020	5030
50'	5005	5010	5020	5030	5040
75'	5010	5020	5030	1-5005	1-5040
				1-5040	1-5050
100'	5020	5030	5040	5050	1-5020
					1-5050
125'	5020	5030	5050	1-5005	1-5040
				1-5050	1-5050
150'	5030	5040	5050	1-5030	1-5050
				1-5050	3-5050

NOTE: TABLE 3 SHOWS LENGTHS OF RUN OF BRANCH PIPING. THE LENGTH OF RUN USED SHOULD BE THE LENGTH OF PIPE FROM POINT OF VALVE CLOSURE TO A POINT OF RELIEF, SUCH AS LARGE PIPE RISER TWICE THE SIZE OF THE BRANCH LINE, MAIN LINE OR WATER TANK.

ALL SIZING RECOMMENDATIONS SHOWN IN TABLE 3 ARE BASED ON AN OPERATING WATER PRESSURE OF 65 PSI OR UNDER AN AVERAGE VELOCITY BETWEEN 5 AND 10 FEET PER SECOND. IF OPERATING PRESSURES ARE OVER 65 PSI USE THE NEXT LARGER WATER HAMMER ARRESTER UNIT. WHEN PRESSURES ARE ANTICIPATED ABOVE 85 PSI A PRESSURE REDUCING VALVE IS RECOMMENDED.

10 SIZING AND PLACEMENT OF WATER HAMMER ARRESTER (WHA)
P6.01 / N.T.S.



8 TYPICAL PIPE PENETRATION (ALL LOCATIONS)
P6.01 / N.T.S.

1. FLOOR OR WALL ASSEMBLY - MIN 5-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM. OF OPENING IS 14 IN. SEE CONCRETE BLOCKS (CAZ1) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRECALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. PIPE COVERING* - CELLULAR GLASS INSULATION - MAX 3 IN. THICK CELLULAR GLASS UNITS SIZED TO THE OUTSIDE DIAM. OF THE STEEL PIPE AND SUPPLIED IN NOM 24 IN. LONG HALF SECTIONS OR NOM 18 IN. LONG SEGMENTS. THE ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. PIPE INSULATION INSTALLED ON PIPE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. PITTSBURGH CORING CORP. - FOAMGLAS METAL JACKET - MIN. 12 IN. LONG JACKET FORMED ON MIN. 0.010 IN. THICK STEEL OR ALUMINUM SHEET CUT TO WRAP TIGHTLY AROUND THE PIPE INSULATION WITH A MIN. 2 IN. LAP. JACKET SECURED WITH MIN. 1/2 IN. WIDE STAINLESS STEEL HOSE CLAMPS OR BANDS LOCATED WITHIN 2 IN. OF EACH END OF THE JACKET AND SPACED A MAX. OF 10 IN. O.C. JACKET TO BE INSTALLED WITH EDGES ABUTTING SURFACE OF CAULK FILL MATERIAL (ITEM 5) ON BOTH SURFACES OF WALL. METAL JACKET TO BE USED IN ADDITION TO ANY OTHER JACKETING MATERIAL WHICH MAY BE REQUIRED TO OR DESIRED ON THE PIPE INSULATION.
5. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. PACKAGING MATERIAL - MIN 5 IN. THICKNESS OF MIN. 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
B. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN. 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND PERIPHERY OF OPENING, A MIN. 1/2 IN. DIAM. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PERIPHERY OF OPENING/PIPE COVERING INTERFACE ON TOP SURFACE OF FLOOR ASSEMBLY OR BOTH SURFACES OF WALL ASSEMBLY.
JOHNS MANVILLE INTERNATIONAL INC. - FIRETEMP
*BEARING THE UL CLASSIFICATION MARK

2-HOUR RATED

NO Certificate of Authorization

Engr. No. 245427937958

Arch. No. 216200012460

Date 6/5/26

Checked TW

Drawn RJS

THOMAS WIGHARD, P.E.

License No. NAJGE04901707

PROFESSIONAL ENGINEER

Revisions:

8/13/26 BID SET

Engineering, Planning, Architecture, Surveying Inc.

LAN ASSOCIATES

1018 Laurel Oak Road Ste 11, Voorhees, NJ 08045 | t. 856-375-2701 | f. 201-447-1233

PLUMBING SCHEDULE & DETAILS

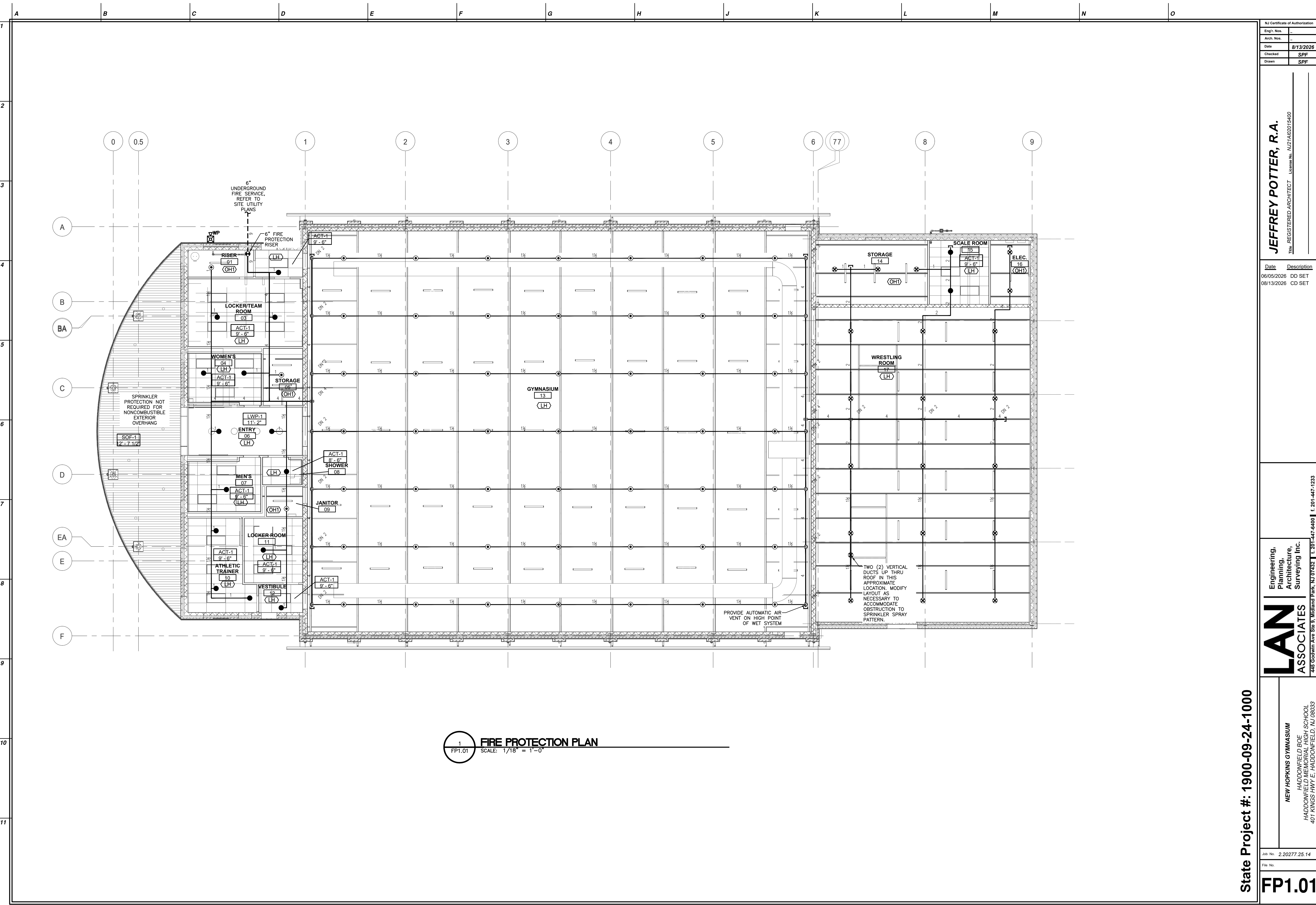
NEW GYMNASIUM at HOPKINS PARCEL HADDONFIELD BOARD OF EDUCATION 4255 KINGS HIGHWAY E, HADDONFIELD, NJ 08033

State Project#: 07-1900-X01-24-2000

Job No. 2-20277.25.14

Rev No. 20277.25.14 P201

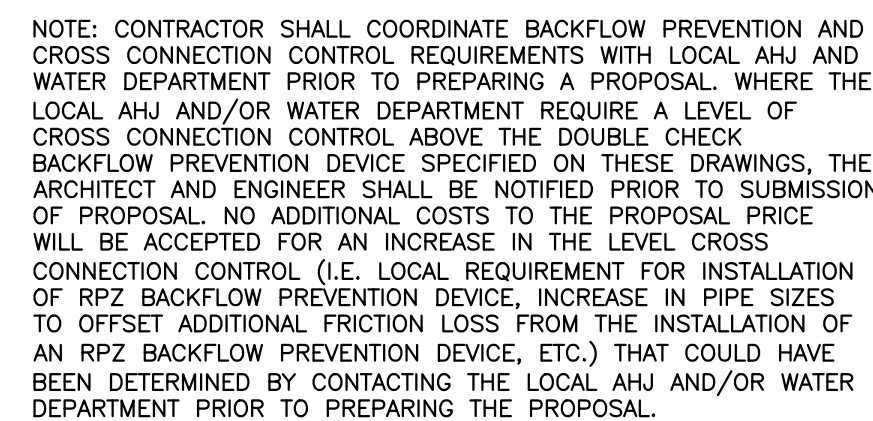
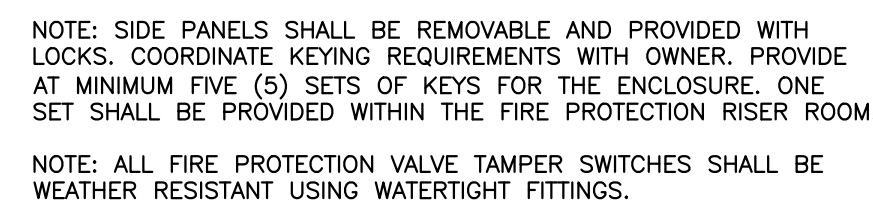
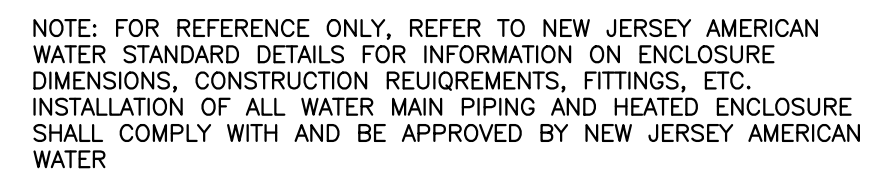
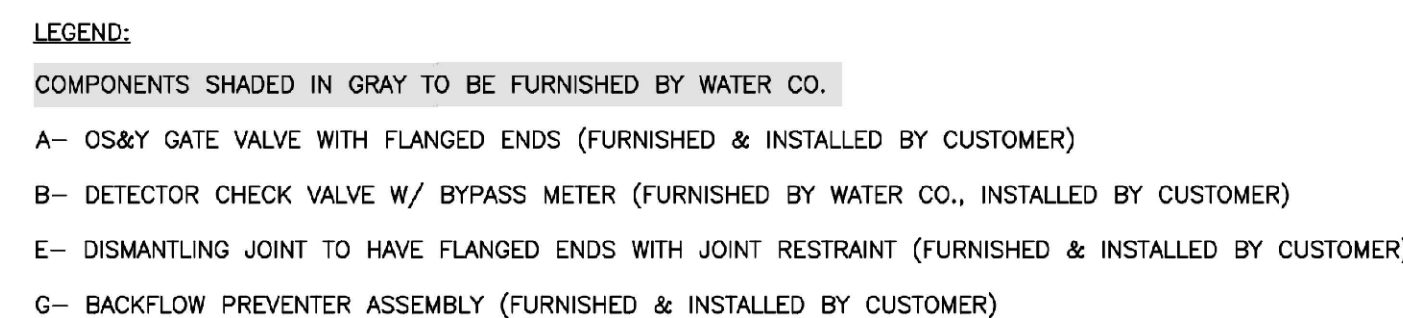
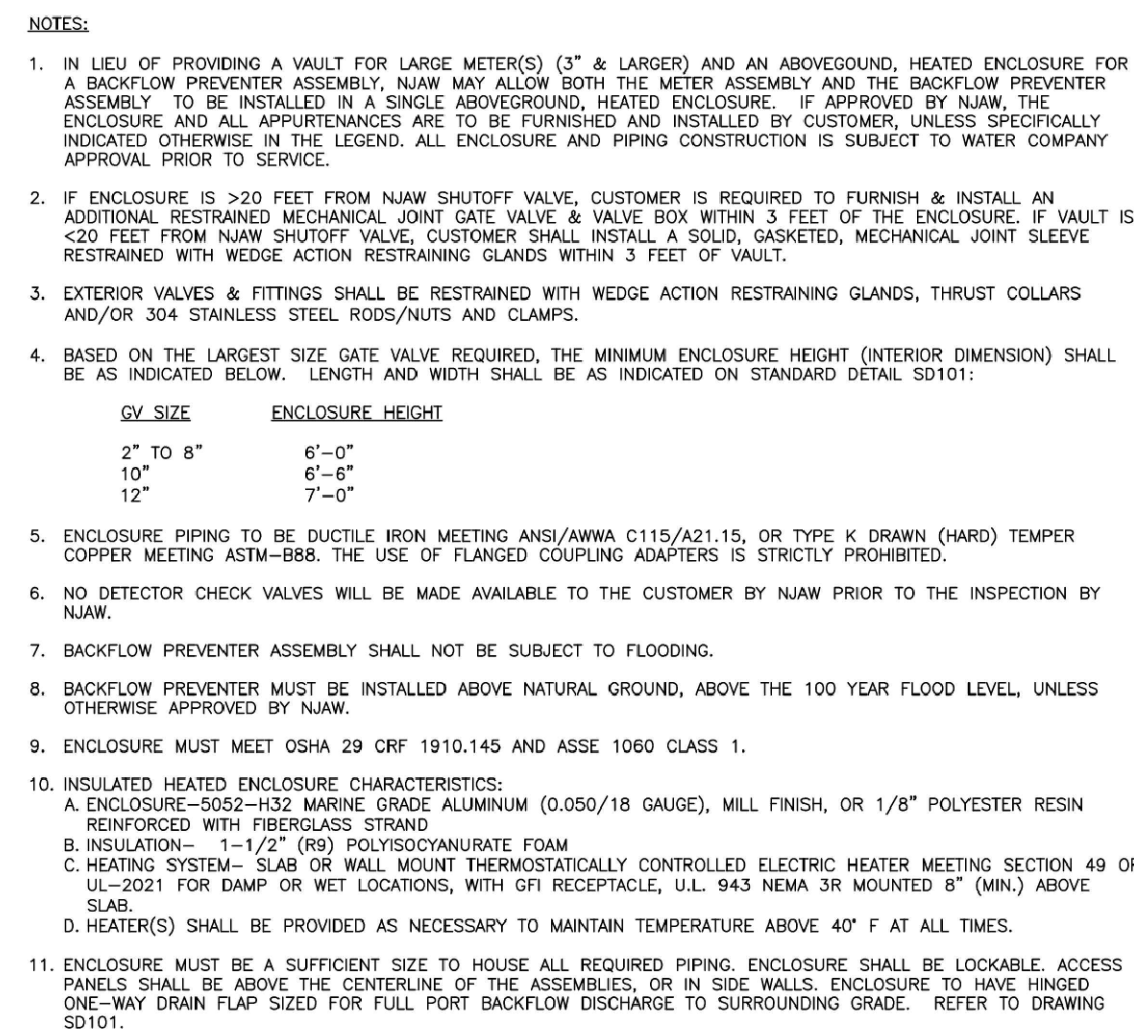
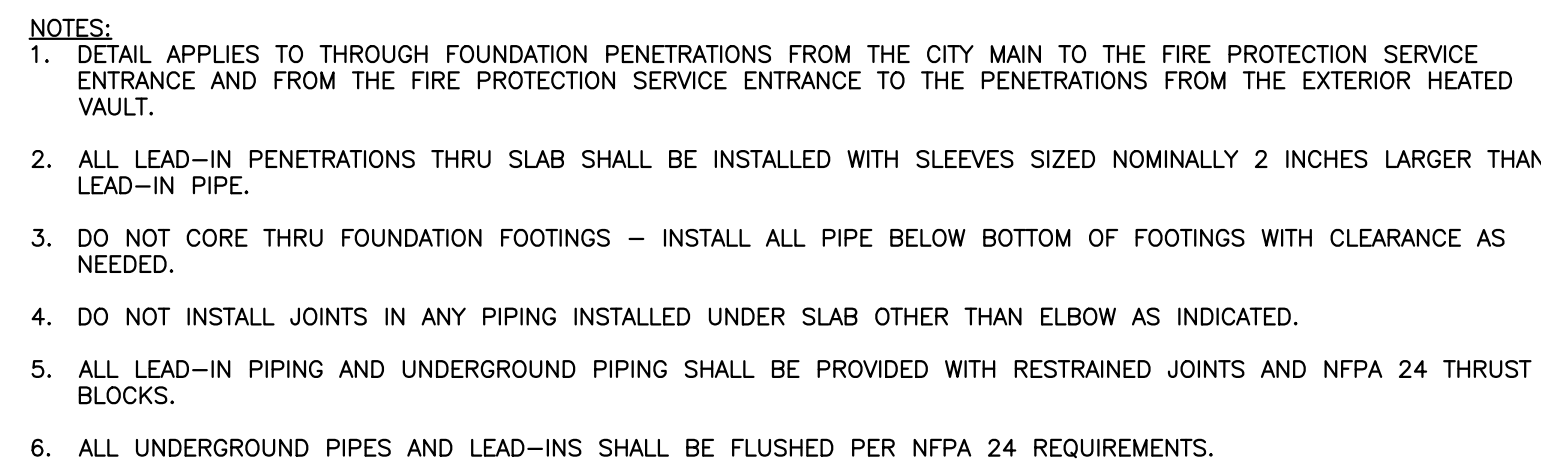
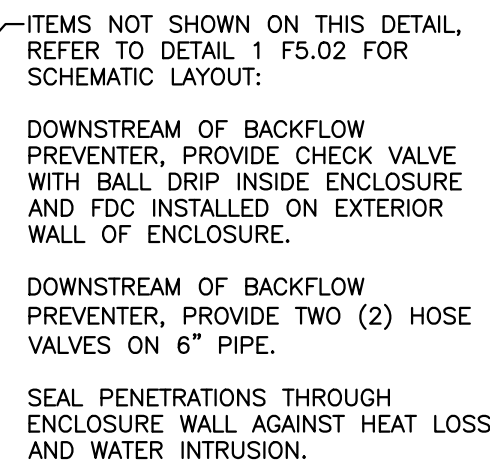
P6.01



1 FIRE PROTECTION PLAN
FP1.01 SCALE: 1/18" = 1'-0"

State Project #: 1900-09-24-1000

NJ Certificate of Authorization	
Engr. Nos.	-
Arch. Nos.	-
Date	8/13/2026
Checked	SPF
Drawn	SPF
JEFFREY POTTER, R.A. Title REGISTERED ARCHITECT License No. NJ21A02015400	
Date	Description
06/05/2026	DD SET
08/13/2026	CD SET
Engineering, Planning, Architecture, Surveying Inc. LAN ASSOCIATES 7448 Godwin Ave Ste 9, Midland Park, NJ 07432 t. 201-447-5400 f. 201-447-1233	
NEW HOPKINS GYMNASIUM HADDONFIELD BOE HADDONFIELD MEMORIAL HIGH SCHOOL 401 KINGS HWY E, HADDONFIELD, NJ 08033	
Job No.	2.20277.25.14
File No.	
FP1.01	



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Eng'r. Nos.	—
Arch. Nos.	—
Date	8/13/2026
Checked	SPF
Drawn	SPF

JEFFREY POTTER, R.A.

<u>Date</u>	<u>Description</u>
06/05/2026	DD SET
08/13/2026	CD SET

**Engineering,
Planning,
Architecture,
Surveying Inc.**

LAN
ASSOCIATES

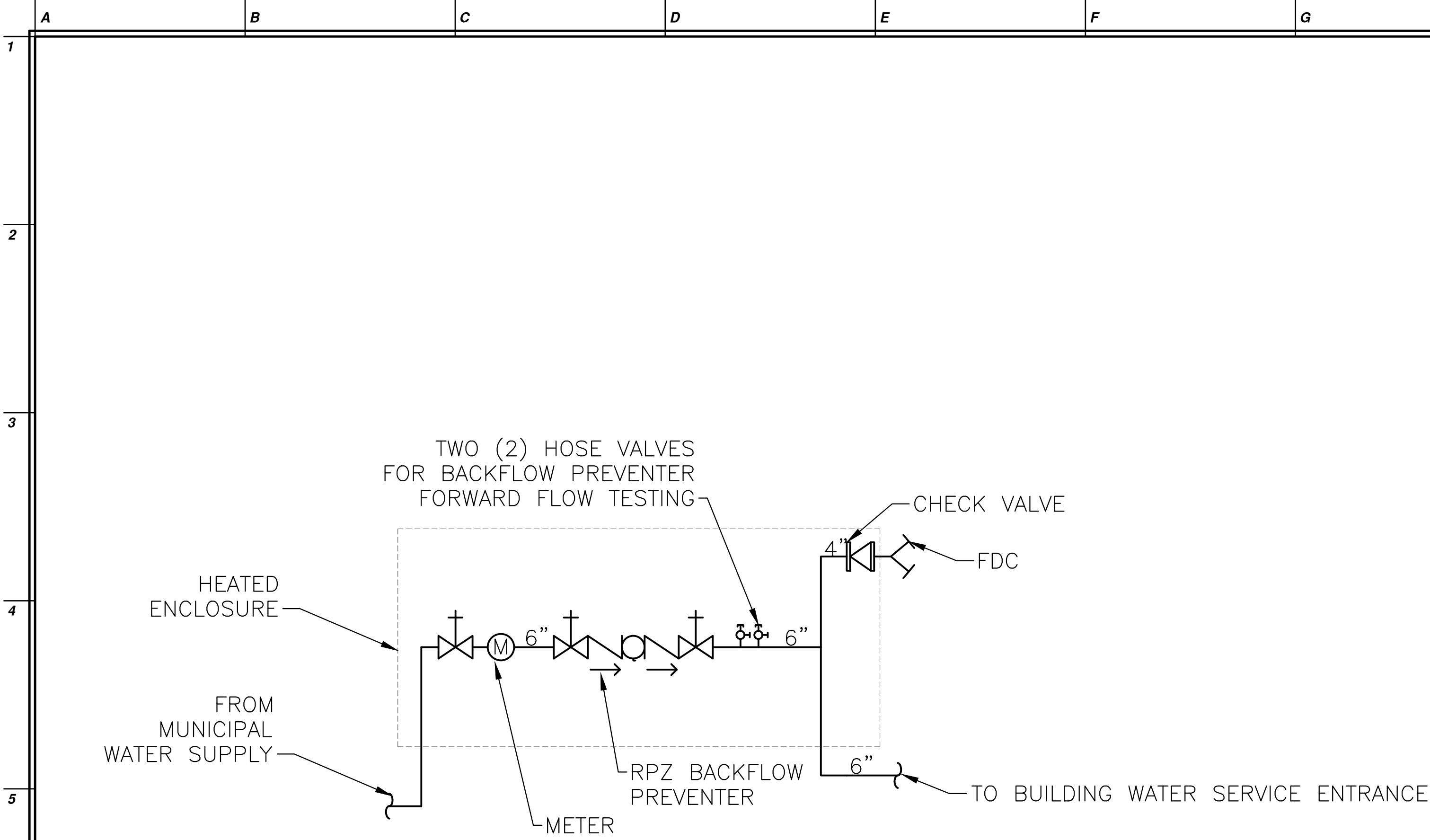
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY. E. HADDONFIELD, NJ 08033

Job No. 2.20277 25.14

File No.

FP5.01

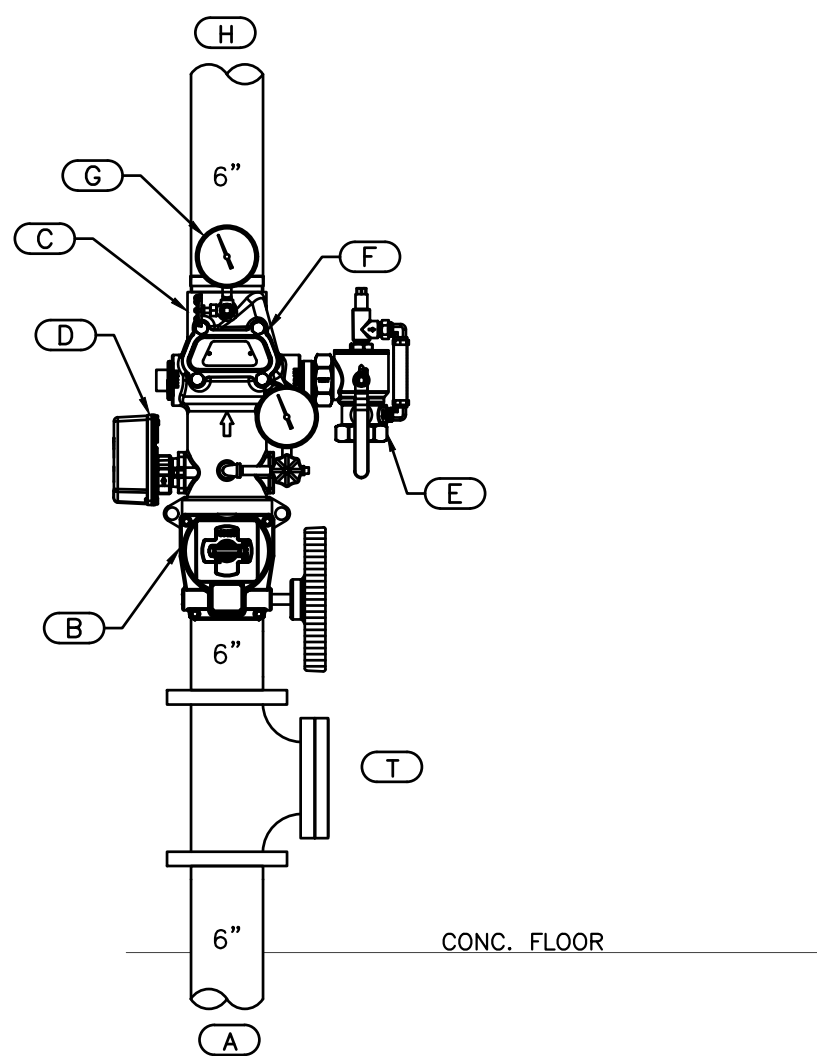
State Project #: 1900-09-24-1000



1 RPZ BACKFLOW ONE LINE
FP5.02 SCALE: NOT TO SCALE

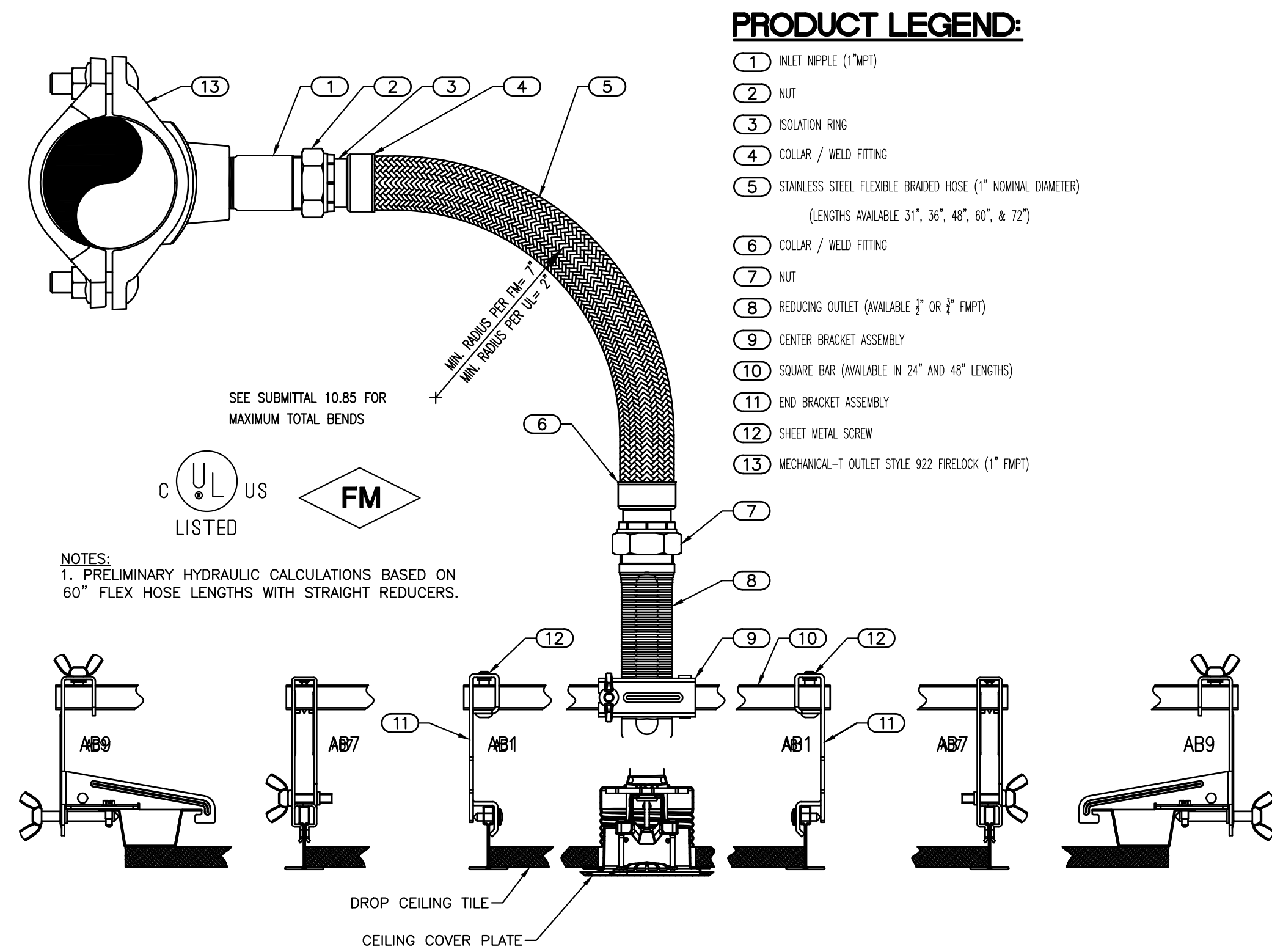
NOTE: CONNECTION TO FDC TO BE PROVIDED WITHIN HEATED ENCLOSURE. REFER TO DETAIL 5/FP5.01 FOR HEATED ENCLOSURE REQUIREMENTS

NOTE: SEPARATE PLUMBING SERVICE, METER, AND RPZ INSTALLED IN THE SAME VAULT. MAINTAIN ADEQUATE CLEARANCES BETWEEN SERVICES AND EQUIPMENT AS REQUIRED BY NJAW.



- NOTE:**
1. RISER INSTALLED AT THE WATER SERVICE ENTRANCE IN RISER 01. BACKFLOW PREVENTION DEVICE FOR FIRE PROTECTION SYSTEM ONLY AND IS INSTALLED IN HEATED ENCLOSURE OUTSIDE THE BUILDING. REFER TO CIVIL PLANS.
 2. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN ALL APPROVALS FOR THE COMPLETE INSTALLATION OF THE BACKFLOW PREVENTION DEVICE INCLUDING BUT NOT LIMITED TO NJ DOH AND AWNJ APPROVAL. INSTALLATION AND PROCUREMENT OF MATERIALS SHALL NOT BEGIN PRIOR TO OBTAINING WRITTEN APPROVAL OF THE PROPOSED RPZ INSTALLATION FROM NJAW.
 3. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ADDITIONAL TAMPER AND FLOW SWITCHES AS PART OF THIS CONTRACT BASED ON THE CONTRACTOR'S WORKING DRAWINGS.
 4. CONTRACTOR SHALL COORDINATE BACKFLOW PREVENTION AND CROSS CONNECTION CONTROL REQUIREMENTS WITH LOCAL AHJ AND WATER DEPARTMENT PRIOR TO PREPARING A PROPOSAL. WHERE THE LOCAL AHJ AND/OR WATER DEPARTMENT REQUIRE A LEVEL OF CROSS CONNECTION CONTROL ABOVE THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE SPECIFIED ON THESE DRAWINGS, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED PRIOR TO SUBMISSION OF PROPOSAL. NO ADDITIONAL COSTS TO THE PROPOSAL PRICE WILL BE ACCEPTED FOR AN INCREASE IN THE LEVEL CROSS CONNECTION CONTROL (I.E. LOCAL REQUIREMENT FOR INSTALLATION OF RPZ BACKFLOW PREVENTION DEVICE, INCREASE IN PIPE SIZES TO OFFSET ADDITIONAL FRICTION LOSS FROM THE INSTALLATION OF AN RPZ BACKFLOW PREVENTION DEVICE, ETC.) THAT COULD HAVE BEEN DETERMINED BY CONTACTING THE LOCAL AHJ AND/OR WATER DEPARTMENT PRIOR TO PREPARING THE PROPOSAL.

3 SCHEMATIC WATER SERVICE ENTRANCE
FP5.02 SCALE: NOT TO SCALE



2 BRAIDED FLEXIBLE HOSE SPRINKLER ASSEMBLIES
FP5.02 SCALE: NOT TO SCALE

KEYED NOTES:

- (A) 6" WATER SERVICE ENTRANCE. REFER TO CIVIL/SITE DRAWINGS FOR CONTINUATION.
(B) 6" NORMALLY OPEN BUTTERFLY VALVE WITH TAMPER SWITCH.
(C) 6" ZONE CONTROL RISER MODULE WITH BUILT IN PRESSURE RELIEF KIT. BASIS OF DESIGN: GLOBE "UMC" UNIVERSAL MANIFOLD CHECK.
(D) WATER FLOW SWITCH.
(E) WET SYSTEM TEST/DRAIN CONNECTION. PIPE TO BUILDING EXTERIOR OR NEAREST FLOOR DRAIN.
(F) 6" CHECK VALVE.
(G) PRESSURE GAUGE (TYPICAL).
(H) 6" RISER TO BUILDING WET PIPE SPRINKLER SYSTEM.
(T) 6" CAP FOR FUTURE CONNECTION.

State Project #: 1900-09-24-1000

NJ Certificate of Authorization	
Eng'r. Nos.	-
Arch. Nos.	-
Date	8/13/2026
Checked	SPF
Drawn	SPF
JEFFREY POTTER, R.A. This REGISTERED ARCHITECT License No. NJ21A02015400	
Date	Description
06/05/2026	DD SET
08/13/2026	CD SET
Engineering, Planning, Architecture, Surveying Inc. LAN ASSOCIATES 7448 Godwin Ave Ste 9, Midland Park, NJ 07432 t. 201-447-6400 f. 201-447-1233	
NEW HOPKINS GYMNASIUM HADDONFIELD BOE HADDONFIELD MEMORIAL HIGH SCHOOL 401 KINGS HWY E, HADDONFIELD, NJ 08033	
Job No.	2.20277.25.14
File No.	
FP5.02	

POWER DEVICES	
SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE (WALL) - WALL MOUNTED 20A, 120V RECEPTACLE TO CIRCUIT INDICATED ON PLAN.
	DUPLEX RECEPTACLE (WALL) - WALL MOUNTED 20A, 120V RECEPTACLE TO CIRCUIT INDICATED ON PLAN.
	QUAD RECEPTACLE (WALL) - WALL MOUNTED 20A, 120V RECEPTACLE TO CIRCUIT INDICATED ON PLAN.
	NEMA 1X-XXR RECEPTACLE (WALL) - WALL MOUNTED NEMA L __ _R RECEPTACLE TO CIRCUIT INDICATED ON PLAN.
	OVERHEAD CORD RECEPTACLE - OVERHEAD CORD TYPE RECEPTACLE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. CORD REEL UNLESS INDICATED AS "F" - FIXED LENGTH.
	DUPLEX RECEPTACLE (CEILING) - CEILING MOUNTED 20A, 120V DUPLEX RECEPTACLE TO CIRCUIT INDICATED ON PLAN.
	QUAD RECEPTACLE (CEILING) - CEILING MOUNTED 20A, 120V DUPLEX RECEPTACLE TO CIRCUIT INDICATED ON PLAN.
	NEMA 1X-XXR RECEPTACLE (CEILING) - CEILING MOUNTED NEMA L __ _R RECEPTACLE TO CIRCUIT INDICATED ON PLAN.
	480Y/277V PANEL BOARD - REFER TO PANEL SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
	208Y/120V PANEL BOARD - REFER TO PANEL SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
	DISCONNECT SWITCH, NON-FUSIBLE - RATED AS INDICATED ON THE DRAWINGS, (EG. 30/3 INDICATES 30A, 3 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
	DISCONNECT SWITCH, FUSIBLE - RATED AS INDICATED ON THE DRAWINGS, (EG. 100/60/3 INDICATES 100A SWITCH, 60A FUSES, 3 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
	DISCONNECT SWITCH, NON-FUSIBLE/MOTOR STARTER - WITH OVERLOAD PROTECTION. SWITCH RATED AS INDICATED ON THE DRAWINGS. IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
	SNAP SWITCH DISCONNECT - RATED AS INDICATED ON DRAWING. IF NOT RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
	JUNCTION/PULL BOX (WALL MOUNTED) - CONNECT TO CIRCUIT NUMBER INDICATED. CONTRACTOR SHALL SIZE AS PER NEC REQUIREMENTS UNLESS SIZE IS INDICATED ON THE PLAN.
	JUNCTION/PULL BOX (CEILING MOUNTED) - CONNECT TO CIRCUIT NUMBER INDICATED. CONTRACTOR SHALL SIZE AS PER NEC REQUIREMENTS UNLESS SIZE IS INDICATED ON THE PLAN.

DATA DEVICES	
SYMBOL	DESCRIPTION
	DATA/TELEPHONE OUTLET - PROVIDE LOW VOLTAGE OUTLET BOX. PROVIDE 1-1/4" C, CONCEALED IN WALL, FOR USE IN PULLING LOW VOLTAGE WIRING. EXTEND CONDUIT 6" ABOVE CEILING SPACE. PROVIDE PULL STRING AND BUSHING AT CONDUIT END.
	WIRELESS ACCESS POINT (CEILING MOUNTED) - PROVIDE LOW VOLTAGE OUTLET BOX. PROVIDE 3/4" C, FOR USE IN PULLING LOW VOLTAGE WIRING. EXTENDED 6" INTO NEAREST ACCESSIBLE CEILING. PROVIDE PULL STRING AND BUSHING AT CONDUIT END.
	SPEAKER (CEILING MOUNTED) - PROVIDE LOW VOLTAGE OUTLET BOX. PROVIDE 3/4" C, FOR USE IN PULLING LOW VOLTAGE WIRING. EXTENDED 6" INTO NEAREST ACCESSIBLE CEILING. PROVIDE PULL STRING AND BUSHING AT CONDUIT END.
	CAMERA (CEILING MOUNTED) - PROVIDE LOW VOLTAGE OUTLET BOX. PROVIDE 3/4" C, FOR USE IN PULLING LOW VOLTAGE WIRING. EXTENDED 6" INTO NEAREST ACCESSIBLE CEILING. PROVIDE PULL STRING AND BUSHING AT CONDUIT END.
	FOR SUSPENDED CEILINGS FURNISH AND INSTALL COMMERCIAL ELECTRIC 21.5 CU. IN. SUSPENDED CEILING BRACE ASSEMBLY, OR APPROVED EQUIVALENT, TO SUPPORT THE DEVICE SPECIFIED. (APPLICABLE TO ALL DATA DEVICES)
	SPEAKER (EXTERIOR FACADE MOUNTED) - PROVIDE LOW VOLTAGE OUTLET BOX. PROVIDE 3/4" C, FOR USE IN PULLING LOW VOLTAGE WIRING. EXTENDED 6" INTO NEAREST INTERIOR ACCESSIBLE CEILING. PROVIDE PULL STRING AND BUSHING AT CONDUIT END.
	CAMERA (EXTERIOR FACADE MOUNTED) - PROVIDE LOW VOLTAGE OUTLET BOX. PROVIDE 3/4" C, FOR USE IN PULLING LOW VOLTAGE WIRING. EXTENDED 6" INTO NEAREST INTERIOR ACCESSIBLE CEILING. PROVIDE PULL STRING AND BUSHING AT CONDUIT END.

LINE TYPE	
THROUGHOUT THE DRAWINGS DIFFERENT LINOTYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED AND TO BE INCLUDED AS PART OF NEW WORK. THE STATUS OF ITEMS USING THESE LINE TYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING (IF) SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINOTYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, ETC.	
	EXISTING
	DEMOLITION
	PROPOSED

GENERAL NOTES: *NOT ALL SYMBOLS/ABBREVIATIONS ON THIS DRAWING WILL BE USED ON THIS PROJECT.*	
1.	REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL GENERAL & KEY NOTES.
2.	SYMBOL SIZE DOES NOT IMPLY EQUIPMENT SIZE. UON.
3.	MOUNTING HEIGHT INDICATED IN DETAIL AND ON DRAWINGS SHALL BE THE DISTANCE MEASURED FROM THE CENTER OR OPERATIONAL PORTION OF DEVICE TO THE FINISHED FLOOR, UON.

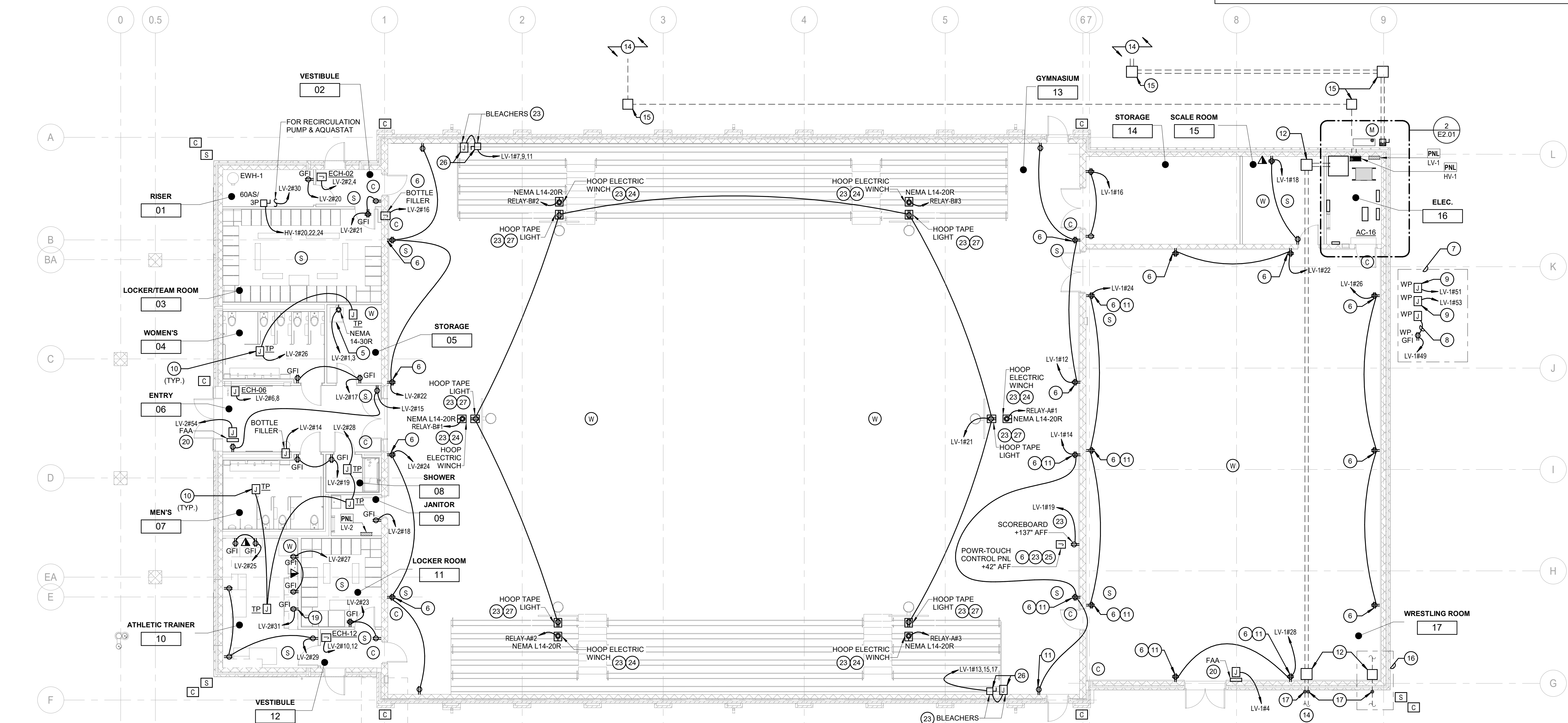
LIGHTING FIXTURE SCHEDULE									
FIXTURE TAG	MAKE	MODEL	DESCRIPTION	VOLTAGE	WATTAGE	LUMENS	COLOR TEMP.	CRI	
A	ZUMA LIGHTING	VIC-75W-1E-UNVY-3K-T3-RPA-BK-7PR-SP20-R24	POLE LIGHT	120-277V	75	0 lm	3000 K	70	
C	ZUMA LIGHTING	VIC-75W-1E-UNVY-3K-T4-RPA-BK-7PR-SP20-R24	POLE LIGHT	120-277V	75	0 lm	3000 K	70	
E	ZUMA LIGHTING	VIC-100W-1E-UNVY-3K-T4-RPA-BK-7PR-SP20-R24	POLE LIGHT	120-277V	100	0 lm	3000 K	70	
L1	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-SVL-MIN10-MVOLT-NLTAIR2-APDT	2' x 4' LED	120-277V	37	4,818 lm	3500 K	80	
L1EM	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-SVL-MIN10-MVOLT-E10W-NLTAIR2-APDT	2' x 4' LED	120-277V	37	4,818 lm	3500 K	80	
L2EM	GOTHAM ARCHITECTURAL LIGHTING	IV06-D-20LM-35K-80CRI-WD-MIN10-MVOLT-NLTAIR2-E10WR-NCH-WL-SH-WMRS-WMR-F	6" DOWNLIGHT LED (SHOWER)	120-277V	21	2,024 lm	3500 K	80	
L3	LITHONIA LIGHTING	CLX-L48-4000LM-SEF-FDL-MVOLT-E21-35K-80CRI-CS93W-NLTAIR2-RES7PDT-WH	4' LINEAR LED	120-277V	26	3,844 lm	3500 K	80	
L3EM	LITHONIA LIGHTING	CLX-L48-4000LM-SEF-FDL-WD-MVOLT-GZ10-35K-80CRI-E10W-CS93W-NLTAIR2-RIQ-WH	4' LINEAR LED	120-277V	26	3,844 lm	3500 K	80	
L4	LUMENWERX	GLBP-16IN-IRO-SW-80CRI-2300LM-35K-UNV-RD1-1C-FTMW-DMRM-FTMB-BPC##IN	16" GLOBE LED	120-277V	28	2,300 lm	3500 K	80	
L4EM	LUMENWERX	GLBP-16IN-IRO-SW-80CRI-2300LM-35K-UNV-RD1+EB-1C-FTMW-DMRM-FTMB-BPC##IN	16" GLOBE LED	120-277V	28	2,300 lm	3500 K	80	
L5	GOTHAM ARCHITECTURAL LIGHTING	IV06-D-20LM-35K-80CRI-WD-MIN10-MVOLT-NLTAIR-NCH-WL-P-AR-LD-F	6" DOWNLIGHT LED (WET)	120-277V	21	1,841 lm	3500 K	80	
L6EM	LITHONIA LIGHTING	WDGE2 LED-P2-35K-80CRI-VF-MVOLT-SRME20WC-NLTAIR2-PIR-DBLXD	ABOVE DOOR WALL PACK	120-277V	18	2,015 lm	3500 K	80	
L7A	LUX DYNAMICS	HIGH-4-835-U10-WP-2Pxx-3/XX-NLTAIR2-WB-GYM	4' LINEAR LED (GYMASIUM)	120-277V	107	12,012 lm	3500 K	80	
L7AEM	LUX DYNAMICS	HIGH-4-835-U10-WP-2Pxx-3/XX-NLTAIREM2-WB-GYM	4' LINEAR LED (GYMASIUM)	120-277V	107	12,012 lm	3500 K	80	
L7B	LUX DYNAMICS	HIGH-4-10lm-835-U10-WP-2Pxx-3/XX-NLTAIR2-WB-GYM	4' LINEAR LED (WRESTLING)	120-277V	62	7,527 lm	3500 K	80	
L7BEM	LUX DYNAMICS	HIGH-4-10lm-835-U10-WP-2Pxx-3/XX-NLTAIREM2-WB-GYM	4' LINEAR LED (WRESTLING)	120-277V	62	7,527 lm	3500 K	80	
L9	WAC ARCHITECTURAL	DS-WD05-F-835-B-BK	INDIRECT-DIRECT CYLINDRICAL WALL SCONCE	120-277V	50	4,890 lm	3500 K	80	
X1	LITHONIA LIGHTING	LQM-S-W-RG-MVOLT-EL-SD	WALL MOUNTED EXIT SIGN	120-277V	5	-	-	-	
LIGHTING FIXTURE SCHEDULE NOTES:									
1. CONTRACTOR SHALL COORDINATE FINAL COLORS, FINISHES, & MOUNTING OPTIONS (INCLUDING POWER CORD LENGTHS WHERE APPLICABLE) FOR ALL LIGHTING FIXTURES WITH ARCHITECT, PRIOR TO PURCHASE.									
2. CONTRACTOR SHALL PROVIDE NEW TYPE A, C, & E LIGHTING FIXTURES WITH INDICATED POLES. REFER TO ELECTRICAL SITE PLAN (SHEET E3.01) FOR PROPOSED LOCATIONS OF NEW TYPE A, C, & E LIGHTING FIXTURES & ASSOCIATED POLE SPECIFICATIONS FOR EACH TYPE. COORDINATE FINAL LIGHTING FIXTURE POLE FINISHES WITH ARCHITECT, PRIOR TO PURCHASE.									
3. CONTRACTOR SHALL PROVIDE ALL NEW TYPE A, C, & E LIGHTING FIXTURES WITH NLIGHT AIR RTLN TWIST-TO-LOCK NODE (MODEL #RTLN-MVOLT-DSNV-G2).									
4. CONTRACTOR SHALL PROVIDE EACH L7A, L7AEM, L7B, & L7BEM LIGHTING FIXTURE WITH FACTORY INSTALLED NLIGHT AIR RSBOR FIXTURE MOUNT SENSOR (FOR 'L7A' FIXTURES: MODEL #RSBOR-6-WH-G2 / FOR L7AEM FIXTURES: MODEL #RSBOR-6-EM-WH-G2 / FOR L7B FIXTURES: MODEL #RSBOR-10-WH-G2 / FOR L7BEM FIXTURES: MODEL #RSBOR-10-EM-WH-G2). COORDINATE EXACT REQUIREMENTS (INCLUDING NECESSARY 'BODY/BACKET' OF 'RSBOR' DEVICES) WITH LIGHTING CONTROL SYSTEM VENDOR & LIGHTING FIXTURE MANUFACTURER, PRIOR TO PURCHASE.									

LIGHTING CONTROL SCHEDULE					
SYMBOL	BASIS OF DESIGN		DESCRIPTION	SENSOR	NOTE
	MAKE	MODEL			
	GENERIC	GENERIC	LINE VOLTAGE SNAP SWITCH	NONE	120V/ 277V
	LEGRAND	1250L	LOW VOLTAGE KEY SWITCH	NONE	LOW VOLT.
	NLIGHT	RPODLA-MVOLT-WH-G2	WIRELESS CONTROL (LINE VOLTAGE POWERED) MOMENTARY CONTACT SWITCH	NONE	120V/ 277V
	NLIGHT	RPODLA-DX-MVOLT-WH-G2	WIRELESS CONTROL (LINE VOLTAGE POWERED) DIMMING SWITCH	NONE	120V/ 277V
	NLIGHT	RCMS-PDT-9-G2	CEILING MOUNTED WIRELESS CONTROL (LOW VOLTAGE POWERED) OCCUPANCY SENSOR & PHOTOSENSOR	PIR/MICROPHONICS & DAY-LIGHT	LOW VOLT.
	NLIGHT	RPP20-D 24V-EFF-G2	LINE VOLTAGE DIMMING POWER PACK / ROOM CONTROLLER	NONE	120V/ 277V
	NLIGHT	NECY-MVOLT-BAC-ENC-GFXK	IP / MASTER CONTROLLER & TIME CLOCK	NONE	120V/ 277V
LIGHTING CONTROL SCHEDULE NOTES:					
1. PROVIDE ROOM CONTROLLER(S)/POWER PACK(S)/RELAY PACK(S)/ZONE CONTROLLER(S)/EMERGENCY SHUNT RELAY(S) WITHIN ACCESSIBLE LOCATION. WHEN IT IS NOT POSSIBLE TO MOUNT ROOM CONTROLLERS ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION, PROVIDE ROOM CONTROLLERS IN NEAREST ELECTRICAL ROOM, STORAGE ROOM, OR JANITOR'S CLOSET. FIELD COORDINATE FINAL MOUNTING LOCATION WITH OWNER AND ARCHITECT.					
2. ROOM CONTROLLER(S)/POWER PACK(S)/RELAY PACK(S)/ZONE CONTROLLER(S)/EMERGENCY SHUNT RELAY(S) WHERE SHOWN ARE DIAGRAMMATIC FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH LIGHTING CONTROL SYSTEM VENDOR AND PROVIDE QUANTITY & TYPE NECESSARY FOR A FULLY FUNCTIONAL, CODE-COMPLIANT INSTALLATION; ENSURE ALL SWITCH ZONES SHOWN ON THE DRAWINGS ARE PROVIDED. PROVIDE WITH "ER" (UL924 EMERGENCY OPERATION, VIA POWER SENSE LEADS) OR "EM" (UL924 EMERGENCY OPERATION, VIA SEPARATE NORMAL POWER SENSING DEVICE) EMERGENCY OPTION AS NECESSARY; UTILIZE "EM" OPTION UNLESS REQUIRED TO UTILIZE "ER" OPTION FOR FUNCTIONALITY.					
3. SENSOR SHALL BE PROGRAMMED FOR "AUTOMATIC-ON" OPERATION.					
4. PROVIDE WITH NLIGHT AIR 'RSI SYSTEM INPUT DEVICE' (MODEL #: 'RSI SERIES') LOCATED AT FIELD COORDINATED LOCATION ABOVE ACCESSIBLE CEILING. CONNECT KEY SWITCH TO 'RSI SYSTEM INPUT DEVICE' WITH NEW 24VDC POWER WIRING, & WIRELESSLY CONNECT 'RSI SYSTEM INPUT DEVICE' TO NLIGHT AIR SYSTEM / ASSOCIATED FIXTURES TO BE CONTROLLED.					
5. WHERE SWITCH IS DESIGNATED "2-POLE" ON ELECTRICAL 1ST FLOOR LIGHTING PLAN (SHEET E5.01), PROVIDE "2P" (2 POLE) POLES & SCENES OPTION FOR DESIGNATED SWITCH.					
6. CONTRACTOR SHALL COORDINATE FINAL DEVICE & WALL / FACE PLATE COLORS FOR ALL LIGHTING SWITCHES WITH ARCHITECT, PRIOR TO PURCHASE.					
7. WHEN USED, SMALL CASE LETTERS, (I.E.: 'a', 'b', 'c', etc.) DENOTES SWITCHING CONTROL (REFER TO FIXTURES ON PLAN). IF NOT USED, THE COMPONENT CONTROLS ALL FIXTURES IN THE SPACE. THIS NOTE APPLIES TO ALL ITEMS WITHIN SCHEDULE.					
8. PROVIDE ANY LOW VOLTAGE WIRING BETWEEN LIGHTING CONTROL COMPONENTS AS REQUIRED. COORDINATE EXACT ROUTING IN FIELD. THIS NOTE APPLIES TO ALL ITEMS WITHIN SCHEDULE.					
9. REFER TO ELECTRICAL LIGHTING CONTROL WIRING & CONNECTION DIAGRAMS (SHEET E5.52) FOR TYPICAL LIGHTING CONTROL WIRING DIAGRAMS. ISSUED FOR REFERENCE ONLY. REFER TO MOST CURRENT SET OF MANUFACTURER'S INSTALLATION INSTRUCTIONS, GUIDELINES, & WIRING DIAGRAMS FOR MORE EXACT INFORMATION & REQUIREMENTS. THIS NOTE APPLIES TO ALL ITEMS WITHIN SCHEDULE.					

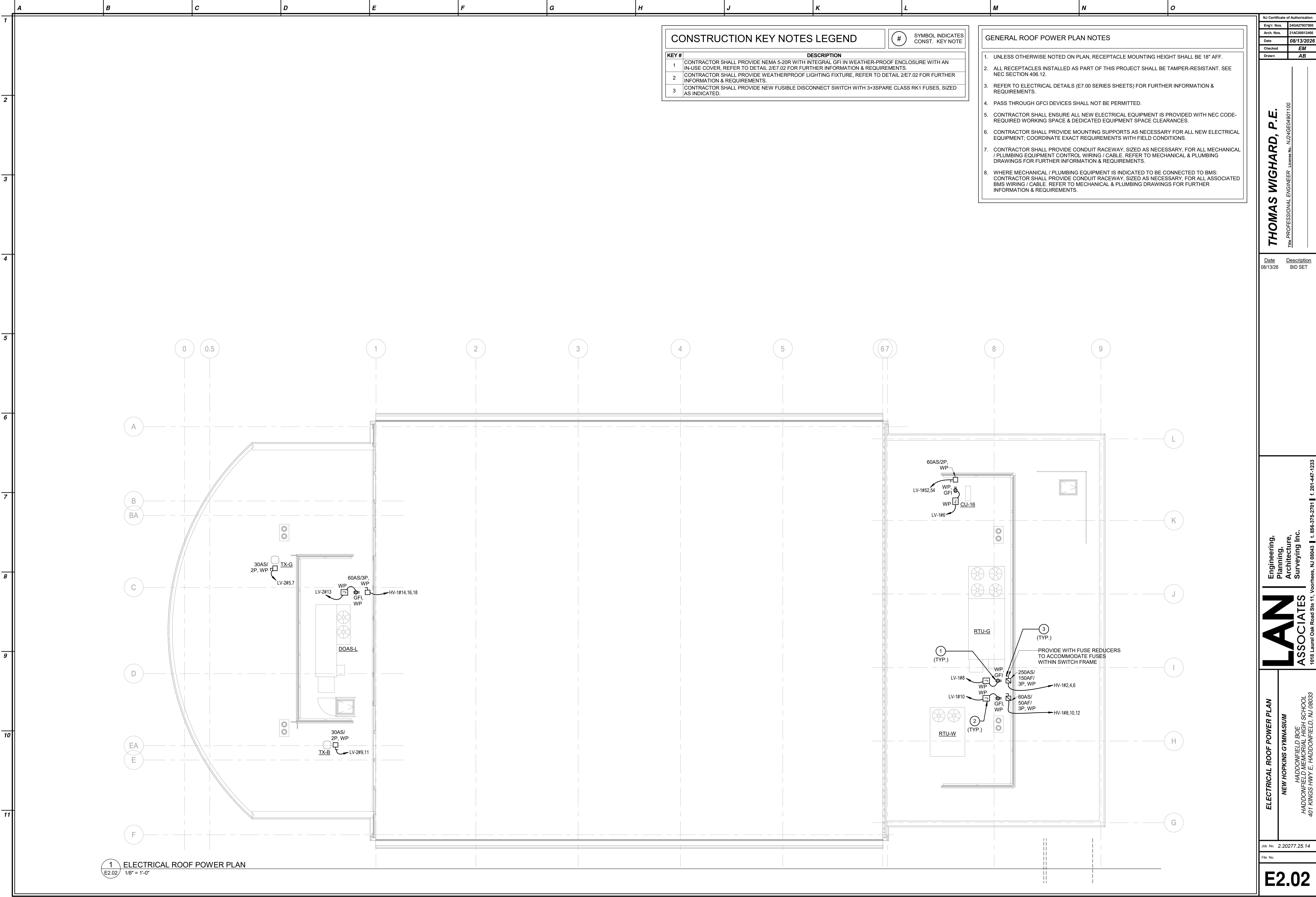
ELECTRICAL GROUNDING REQUIREMENTS									
THE CONTRACTOR SHALL PROVIDE A GROUNDING CONDUCTOR FOR ALL BRANCH FEEDERS AND CIRCUITS IN ACCORDANCE WITH THE FOLLOWING CHART:									
RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC., NOT EXCEEDING (AMPERES)	SIZE (AWG OR KCMIL)		RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC., NOT EXCEEDING (AMPERES)	SIZE (AWG OR KCMIL)		RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC., NOT EXCEEDING (AMPERES)	SIZE (AWG OR KCMIL)		
	COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM*		COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM*		COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM*	
15	14	12	300	4	2	1600	4/0	350	
20	12	10	400	3	1	2000	250	400	
30	10	8	500	2	1/0	2500	350	600	
40	10	8	600	1	2/0	3000	400	600	
60	10	8	800	1/0	3/0	4000	500	800	
100	8	6	1000	2/0	4/0	5000	700	1200	
200	6	4	1200	3/0	250	6000	800	1200	
NOTE: WHERE NECESSARY TO COMPLY WITH NEC 250.4(A)(5) OR (B)(4), THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED LARGER THAN GIVEN IN THE TABLE. WHERE UNGROUNDING CONDUCTORS ARE INCREASED IN SIZE, EQUIPMENT GROUNDING CONDUCTORS, WHERE INSTALLED, SHALL BE INCREASED IN SIZE PROPORTIONATELY ACCORDING TO THE CIRCULAR MIL AREA OF THE UNGROUNDING CONDUCTORS.									
*SEE INSTALLATION RESTRICTION IN NEC 250.120.									

ABBREVIATIONS		
@	AT	ILL
A	AMPERE	ILUMINATION
AC	ARMORED CABLE	IMC
AMP	AMPERE	INTERMEDIATE METAL CONDUIT
ABV	ABOVE	INV
AF	AMP FRAME	INVERT
AFC	ABOVE FINISHED CEILING	JB
AFF	ABOVE FINISHED FLOOR	JUNCTION BOX
AFG	ABOVE FINISHED GRADE	JUNC
AIC	AMPERE INTERRUPTING CAPACITY	JUNCTION
AL	ALUMINUM	KVA
ALT	ALTERNATE	KILOVOLT-AMPERE
AM	AMMETER	KW
ANNUN	ANNUNCIATOR	KILOWATT
ANT	ANTENNA	KWH
ARCH	ARCHITECT	KILOWATT-HOUR
AS	AMMETER SWITCH	LA
AT	AMP TRIP	LIGHTNING SURGE ARRESTER
ATC	AUTOMATIC TEMPERATURE CONTROL	LCP
ATS	AUTOMATIC TRANSFER SWITCH	LIGHTING CONTROL PANEL
AUX	AUXILIARY	LIM
BIL	BASIC IMPULSE LEVEL	LINE ISOLATION MONITOR
BKBD	BACKBOARD	LO
BKR	BREAKER	LUGS ONLY
BMS	BUILDING MANAGEMENT SYSTEM	LS
C	CONDUIT	LIMIT SWITCH
CDT	CONDUIT	LT
CAB	CABINET	LIGHT
C/B	CIRCUIT BREAKER	LTG
CSBL	CABLE	LIGHTING
CC	CASEWORK CONTRACTOR	LV
CKT	CIRCUIT	LOW VOLTAGE
CLG	CEILING	M
CNBD	COULD NOT BE DETERMINED	MAIN
CONN	CONNECTION	MAX
CONST	CONSTRUCTION	MC
CONT	CONTINUOUS	MECHANICAL CONTRACTOR
CONTR	CONTRACTOR	MC
CPT	CONTROL POWER TRANSFORMER	METAL CLAD CABLE
CT	CURRENT TRANSFORMER	MCC
CU	COPPER	MOTOR CIRCUIT BREAKER
DEMO	DEMOLITION	MCCP
DC	DIRECT CURRENT	MOTOR CONTROL CENTER
DIA	DIAMETER	MCP
DIC	DICTATION	MOTOR CIRCUIT PROTECTOR
DISC	DISCONNECT	ME
DIST	DISTRIBUTION	MODIFY EXISTING
DWG	DRAWING	MFR
DP	DISTRIBUTION PANEL	MANUFACTURER
E	EMERGENCY	MIN
EA	EACH	MINIMUM
EC	ELECTRICAL CONTRACTOR	MO
EDP	ELECTRONIC DATA PROCESSING	MECHANICALLY OPERATED
EGC	EQUIPMENT GROUNDING CONDUCTOR	MLO
ELEC	ELECTRICAL	MAIN LUGS ONLY
ELEV	ELEVATOR	MTD
EMT	ELECTRICAL METALLIC TUBING	MOUNTED
ENCLOSURE	ENCLOSURE	MV
EO	ELECTRICALLY OPERATED	NEUTRAL
ETR	EXISTING TO REMAIN	NC
ER	EXISTING RELOCATED	NORMALLY CLOSED
EQUIP	EQUIPMENT	NIC
EX(E)	EXISTING TO REMAIN	NOT IN CONTRACT
F	FUSED(D)	NO
FA	FIRE ALARM	NORMALLY OPEN
FAA	FIRE ALARM ANNUNCIATOR	NTS
FACP	FIRE ALARM CONTROL PANEL	NOT TO SCALE
FBO	FURNISHED BY OWNER	OC
FD	FEEDER DUCT	ON CENTER
FDR	FEEDER	OCB
FHC	FIRE HOSE CABINET	OIL CIRCUIT BREAKER
FI	FILM ILLUMINATOR	OVERCURRENT PROTECTION
FL	FLOOR	OD
FLUOR	FLUORESCENT	OUTSIDE DIMENSION
FS	FLOW SWITCH	P
FUT	FUTURE	POLE
EGC	EQUIPMENT GROUND CONDUCTOR	PB
GA	GAUGE	PULL BOX
GC	GENERAL CONTRACTOR	PC
GFI	GROUND FAULT INTERRUPTER	PLUMBING CONTRACTOR
GFP	GROUND FAULT PROTECTION	PF
GFSC	GROUND FAULT SENSING RELAY	POWER FACTOR
GND	GROUND	PH
GSC	SYSTEM CIRCUIT GROUND CONDUCTOR	PHASE
HID	HIGH INTENSITY DISCHARGE	ø
HOA	HAND-OFF-AUTOMATIC	PHASE
HORIZ	HORIZONTAL	PL
HP	HORSEPOWER	PLOT LIGHT
HT	HEIGHT	PNL
HV	HIGH VOLTAGE	PANEL
HVAC	HEATING, VENTILATING, AIR CONDITIONING	PRI
ID	INSIDE DIMENSION	PRIMARY
		PS
		PULL STATION
		PSI
		POUNDS PER SQUARE INCH
		PT
		POTENTIAL TRANSFORMER
		PWR
		POTENTIAL POWER
		RCVR
		RECEIVER
		RE
		REMOVE EXISTING
		REQ
		REQUIRED
		RGS
		RIGID GALVANIZED STEEL
		SEC
		SECTION
		SLD
		SINGLE LINE DIAGRAM
		SLV
		SLEEVE
		SPD
		SURGE PROTECTIVE DEVICE
		SPEC
		SPECIFICATION
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		WEATHERPROOF
		X
		EXTINGUISHING
		XDR
		TRANSUDCER
		XFMR
		TRANSFORMER
		XFR
		TRANSFER
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		XPRD
		TRANSPONDER

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NJ Certificate of Authorization	
Eng'g. No.	240A27937590
Arch. No.	21ACD20011400
Date	08/13/2026
Checked	EM
Drawn	AB
THOMAS WIGHARD, P.E. Title: PROFESSIONAL ENGINEER License No. NJ24GE04907100	
Date	Description
08/13/26	BID SET
Engineering, Planning, Architecture, Surveying Inc. LAN ASSOCIATES 1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 t. 201-447-1233 f. 201-447-1233	
ELECTRICAL 1ST FLOOR POWER PLAN NEW HOPKINS GYMNASIUM HADDONFIELD BOE HADDONFIELD MEMORIAL HIGH SCHOOL 401 KINGS HWY E. HADDONFIELD, NJ 08033	
Job No.	2.20277.25.14
File No.	
E2.01	



CONSTRUCTION KEY NOTES LEGEND

KEY #	DESCRIPTION
1	CONTRACTOR SHALL PROVIDE NEMA 5-20R WITH INTEGRAL GFI IN WEATHER-PROOF ENCLOSURE WITH AN IN-USE COVER, REFER TO DETAIL 2/E7.02 FOR FURTHER INFORMATION & REQUIREMENTS.
2	CONTRACTOR SHALL PROVIDE WEATHERPROOF LIGHTING FIXTURE, REFER TO DETAIL 2/E7.02 FOR FURTHER INFORMATION & REQUIREMENTS.
3	CONTRACTOR SHALL PROVIDE NEW FUSIBLE DISCONNECT SWITCH WITH 3*3SPARE CLASS RK1 FUSES, SIZED AS INDICATED.

SYMBOL INDICATES CONST. KEY NOTE

GENERAL ROOF POWER PLAN NOTES

- UNLESS OTHERWISE NOTED ON PLAN, RECEPTACLE MOUNTING HEIGHT SHALL BE 18" AFF.
- ALL RECEPTACLES INSTALLED AS PART OF THIS PROJECT SHALL BE TAMPER-RESISTANT. SEE NEC SECTION 406.12.
- REFER TO ELECTRICAL DETAILS (E7.00 SERIES SHEETS) FOR FURTHER INFORMATION & REQUIREMENTS.
- PASS THROUGH GFCI DEVICES SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL ENSURE ALL NEW ELECTRICAL EQUIPMENT IS PROVIDED WITH NEC CODE-REQUIRED WORKING SPACE & DEDICATED EQUIPMENT SPACE CLEARANCES.
- CONTRACTOR SHALL PROVIDE MOUNTING SUPPORTS AS NECESSARY FOR ALL NEW ELECTRICAL EQUIPMENT; COORDINATE EXACT REQUIREMENTS WITH FIELD CONDITIONS.
- CONTRACTOR SHALL PROVIDE CONDUIT RACEWAY, SIZED AS NECESSARY, FOR ALL MECHANICAL / PLUMBING EQUIPMENT CONTROL WIRING / CABLE. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR FURTHER INFORMATION & REQUIREMENTS.
- WHERE MECHANICAL / PLUMBING EQUIPMENT IS INDICATED TO BE CONNECTED TO BMS: CONTRACTOR SHALL PROVIDE CONDUIT RACEWAY, SIZED AS NECESSARY, FOR ALL ASSOCIATED BMS WIRING / CABLE. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR FURTHER INFORMATION & REQUIREMENTS.

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC0012409
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Date	Description
08/13/26	BID SET

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Planning,
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LAN ASSOCIATES

1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

ELECTRICAL ROOF POWER PLAN

NEW HOPKINS GYMNASIUM

HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

File No.

E2.02

THOMAS WIGHARD, P.E.
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Job No. 2.20277.25.14

File No.

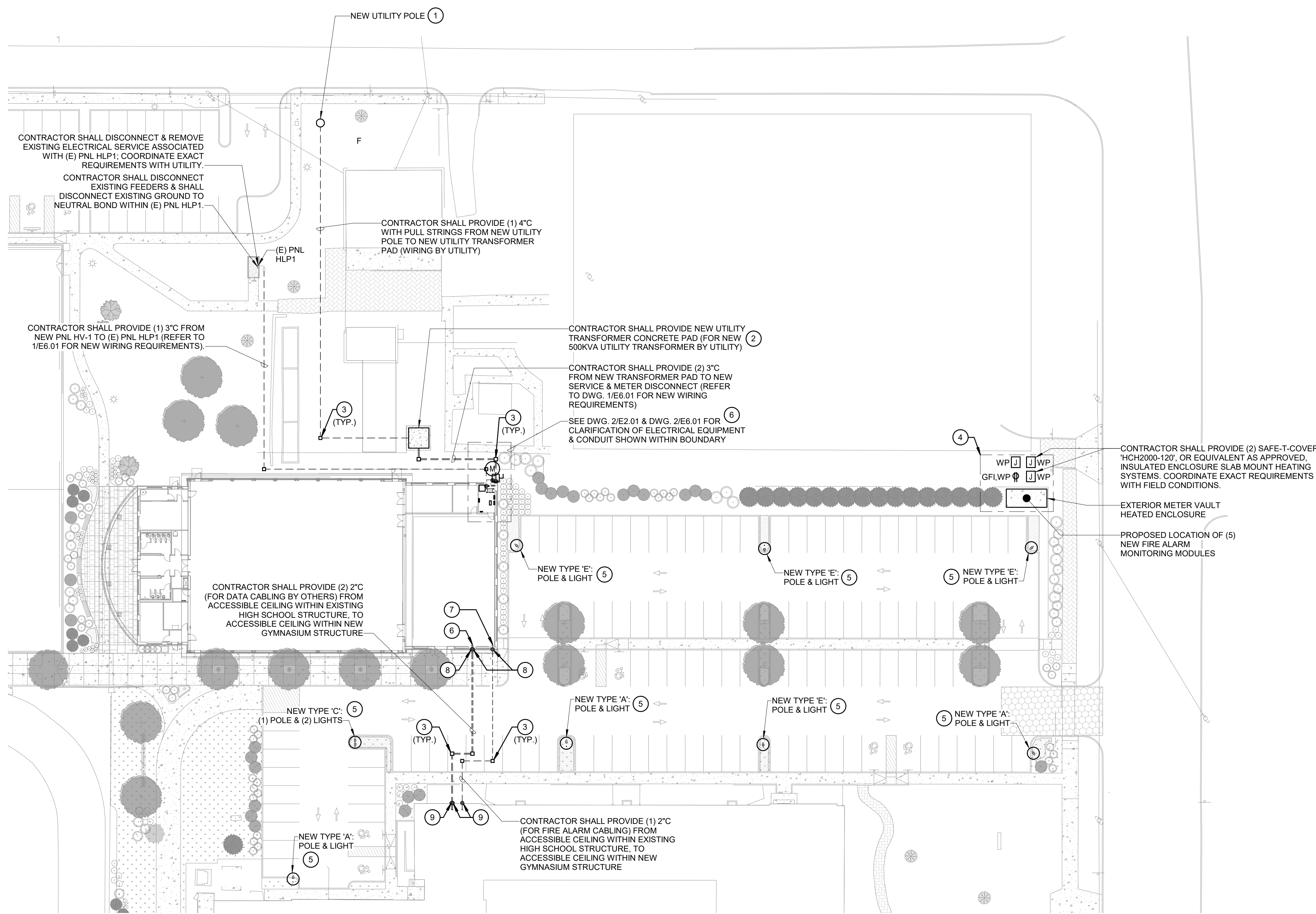
SYMBOL INDICATES
CONST. KEY NOTE

KEY #	DESCRIPTION
1	CONTRACTOR SHALL COORDINATE WITH UTILITY TO PROVIDE NEW ELECTRIC UTILITY POLE. REFER TO DETAIL 8/E7.01 FOR FURTHER INFORMATION & REQUIREMENTS.
2	CONTRACTOR SHALL COORDINATE WITH UTILITY TO PROVIDE NEW 500KVA UTILITY TRANSFORMER EQUIPMENT PAD (TRANSFORMER BY UTILITY). REFER TO 1/E7.04 & 2/E7.04 FOR FURTHER INFORMATION & REQUIREMENTS.
3	CONTRACTOR SHALL COORDINATE WITH FIELD CONDITIONS TO PROVIDE NECESSARY QUANTITY OF UNDERGROUND HANDHOLES REQUIRED TO FACILITATE INSTALLATION.
4	PROPOSED LOCATION OF NEW EXTERIOR METER VAULT WITH: (2) SLAB HEATERS FOR HEATED ENCLOSURE, MAINTENANCE RECEPTACLE, OUTLET, & (5) FIRE ALARM MONITORING MODULES. REFER TO ELECTRICAL 1ST FLOOR POWER PLAN (SHEET E2.01) FOR POWER CIRCUITING REQUIREMENTS & FIRE ALARM 1ST FLOOR PLAN (SHEET FA3.01) FOR FURTHER FIRE ALARM REQUIREMENTS. CONTRACTOR SHALL PROVIDE NEW TRENCHED POWER WIRING, FIRE ALARM CABLING, & CONDUITS WITH HANDHOLES & BOXES AS REQUIRED. TRENCH TO INDICATED LOCATION FROM THE ELECTRICAL ROOM.
5	PROPOSED LOCATION OF NEW DOWN LIGHTS. REFER TO ELECTRICAL 1ST FLOOR LIGHTING PLAN (SHEET E5.01) FOR POWER CIRCUITING REQUIREMENTS. CONTRACTOR SHALL PROVIDE NEW TRENCHED POWER WIRING & CONDUIT WITH HANDHOLES & BOXES AS REQUIRED. TRENCH TO INDICATED LOCATIONS FROM THE ELECTRICAL ROOM.
6	REFER TO ELECTRICAL 1ST FLOOR POWER PLAN (SHEET E2.01) FOR CONTINUATION OF POWER / DATA CONDUIT RACEWAY(S) INTO BUILDING STRUCTURE.
7	REFER TO FIRST ALARM 1ST FLOOR PLAN (SHEET FA2.01) FOR CONTINUATION OF FIRE ALARM CONDUIT RACEWAY INTO BUILDING STRUCTURE.
8	CONTRACTOR SHALL ROUTE CONDUIT RACEWAYS FROM TRENCH, RISE UP AT EXTERIOR BUILDING FACADE, & POKE INTO BUILDING AT MAXIMUM ALLOWABLE HEIGHT BENEATH WRESTLING ROOM CEILING. FIELD COORDINATE FINAL PENETRATION LOCATIONS & HEIGHTS.
9	CONTRACTOR SHALL ROUTE CONDUIT RACEWAYS FROM TRENCH, RISE UP AT EXTERIOR BUILDING FACADE, & POKE INTO BUILDING AT MAXIMUM ALLOWABLE HEIGHT INTO THE 1ST FLOOR ROOM SUSPENDED CEILING. FIELD COORDINATE FINAL PENETRATION LOCATIONS & HEIGHTS.

1. ALL RACEWAYS, CONDUIT JOINTS, & CABLES SHALL BE INSTALLED CONCEALED WITHIN FINISHED WALLS & CEILINGS OR TRENCH, EXCEPT FOR CONDUIT RACEWAY RUNS REQUIRED TO BE MOUNTED ONTO OPEN CEILINGS. SURFACE-MOUNTED RACEWAY, INCLUDING CONDUIT, SHALL NOT BE PERMITTED TO RUN ON WALLS.
2. REFER TO ELECTRICAL DETAILS (E7.00 SERIES SHEETS) FOR FURTHER INFORMATION & REQUIREMENTS.
3. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION & REQUIREMENTS, INCLUDING APPROXIMATE LOCATIONS OF OTHER EXISTING & NEW UNDERGROUND SYSTEMS & UTILITIES. VERIFY EXACT LOCATIONS OF EXISTING UNDERGROUND SYSTEMS & UTILITIES IN FIELD.
4. COORDINATE ALL NEW TRENCHING, INCLUDING FINAL REQUIRED DEPTHS OF NEW CONDUIT, WITH FIELD CONDITIONS, & OTHER EXISTING & NEW UNDERGROUND SYSTEMS & UTILITIES.
5. PROVIDE PULL STRINGS WITHIN ALL NEW DATA CABLING PATHWAYS SHOWN ON THIS DWG.
6. QUANTITY & LOCATION OF NEW HANDHOLES INDICATED ON THIS DRAWING ARE SHOWN FOR DESIGN INTENT ONLY. FOR ALL NEW POWER, DATA, & FIRE ALARM PATHWAYS: PROVIDE QUANTITY OF HANDHOLES & BOXES FOR NEW EXTERIOR UNDERGROUND WIRING / CABLING AT NECESSARY LOCATIONS, & FOR DATA CABLING PATHWAYS, IN ACCORDANCE WITH SPECIFICATION SECTION **260543**. PROVIDE ADDITIONAL PULL POINTS AS NECESSARY FOR INSTALLATION OF ALL NEW WIRING / CABLING BY CONTRACTOR & ALL NEW DATA CABLING BY OTHERS. REFER TO ELECTRICAL HANDHOLE DETAIL 5/E7.02 FOR FURTHER INFORMATION & REQUIREMENTS.
7. CONTRACTOR SHALL ENSURE ALL NEW ELECTRICAL EQUIPMENT IS PROVIDED WITH NEC CODE-REQUIRED WORKING SPACE & DEDICATED EQUIPMENT SPACE CLEARANCES.
8. CONTRACTOR SHALL PROVIDE MOUNTING SUPPORTS AS NECESSARY FOR ALL NEW ELECTRICAL EQUIPMENT; COORDINATE EXACT REQUIREMENTS WITH FIELD CONDITIONS.
9. CONTRACTOR SHALL PROVIDE CONDUIT RACEWAY, SIZED AS NECESSARY, FOR ALL MECHANICAL / PLUMBING EQUIPMENT CONTROL WIRING / CABLE. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR FURTHER INFORMATION & REQUIREMENTS.
10. WHERE MECHANICAL / PLUMBING EQUIPMENT IS INDICATED TO BE CONNECTED TO BMS: CONTRACTOR SHALL PROVIDE CONDUIT RACEWAY, SIZED AS NECESSARY, FOR ALL ASSOCIATED BMS WIRING / CABLE. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR FURTHER INFORMATION & REQUIREMENTS.
11. ALL NEW TRENCHED CONDUIT RACEWAY MINIMUM TRADE SIZE SHALL BE 1-1/2".

COORDINATE EXACT REQUIREMENTS WITH THE LATEST EDITION OF THE N.J. **PSE&G** (NEW JERSEY PUBLIC SERVICE ELECTRIC & GAS COMPANY) - **INFORMATION & REQUIREMENTS FOR ELECTRIC SERVICE MANUAL**. REFER TO CHAPTER 10, SECTIONS 22 & 24 FOR FURTHER INFORMATION & REQUIREMENTS ASSOCIATED WITH THE UTILITY TRANSFORMER & ASSOCIATED CONCRETE PAD.

1. REFER TO ELECTRICAL LIGHTING FIXTURE SCHEDULE & LIGHTING CONTROL SCHEDULE ON THE ELECTRICAL LEGEND (SHEET E-01) FOR FURTHER INFORMATION ASSOCIATED WITH NEW LIGHTING FIXTURES & CONTROL EQUIPMENT INDICATED TO BE PROVIDED ON THIS DWG. PROVIDE FIXTURES & EQUIPMENT AS SCHEDULED, OR EQUIVALENTS AS APPROVED.
2. REFER TO ELECTRICAL LIGHTING CONTROL WIRING & CONNECTION DIAGRAMS (SHEET E-52) FOR TYPE OF LIGHTING CONTROL WIRING DIAGRAMS. ISSUED FOR REFERENCE ONLY. REFER TO MOST CURRENT SET OF MANUFACTURER'S INSTALLATION INSTRUCTIONS, GUIDELINES, & WIRING DIAGRAMS FOR MORE EXACT INFORMATION & REQUIREMENTS.
3. REFER TO ELECTRICAL SITE & LIGHTING PLAN PHOTOMETRICS (SHEET E-52) & ELECTRICAL LIGHTING NOTES (SHEET E-51) FOR FURTHER INFORMATION & REQUIREMENTS.
4. PLANS DO NOT SHOW EXACT QUANTITY OF LIGHTING CONTROL SYSTEM POWER PACKS REQUIRED. POWER PACK, RELAY PACKS, OR ROOM CONTROLLERS SHALL BE PROVIDED AS NEEDED TO PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM THAT COMPLIES WITH THE CONTROL REQUIREMENTS BY ASHRAE 90.1.
5. CONTRACTOR SHALL PROVIDE NEW 2.5' CONCRETE PIER AT EACH NEW LIGHT POLE LOCATION; MOUNT NEW POLE ONTO NEW PIER. COORDINATE EXIST REQUIREMENTS WITH CIVIL DRAWINGS & FIELD CONDITIONS. REFER TO RAISED LIGHT POLE FOUNDATION DETAIL 3/E7.02 FOR FURTHER INFORMATION & REQUIREMENTS.
6. REFER TO ELECTRICAL 1ST FLOOR LIGHTING PLAN (SHEET E-51) FOR POWER CIRCUITING REQUIREMENTS ASSOCIATED WITH ALL NEW POLE LIGHTS INDICATED ON THIS DWG.
7. PROVIDE ALL NEW TYPE **A, C,** & **E** LIGHTING FIXTURES INDICATED ON THIS DRAWING WITH NEW LIGHTING FIXTURE POLES. POLE SPECIFICATIONS FOR EACH LIGHTING FIXTURE TYPE SHALL BE AS FOLLOWS:
 - FOR NEW TYPE **A** LIGHTING FIXTURES, PROVIDE **2x4** LIGHTING ROUND ALUMINUM POLE - **PA** SERIES (MODEL **#PA-27-5-6R-250-BC1112-D180-BK-YD-R24**) OR EQUIVALENT AS APPROVED.
 - FOR NEW TYPE **C** LIGHTING FIXTURES, PROVIDE **2x4** LIGHTING ROUND ALUMINUM POLE - **PA** SERIES (MODEL **#PA-27-5-6R-250-BC1112-D180-BK-YD-R24**) OR EQUIVALENT AS APPROVED.
 - FOR NEW TYPE **E** LIGHTING FIXTURES, PROVIDE **2x4** LIGHTING ROUND ALUMINUM POLE - **PA** SERIES (MODEL **#PA-27-5-6R-250-BC1112-D180-BK-YD-R24**) OR EQUIVALENT AS APPROVED.





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8/17/2026 10:53:26 AM

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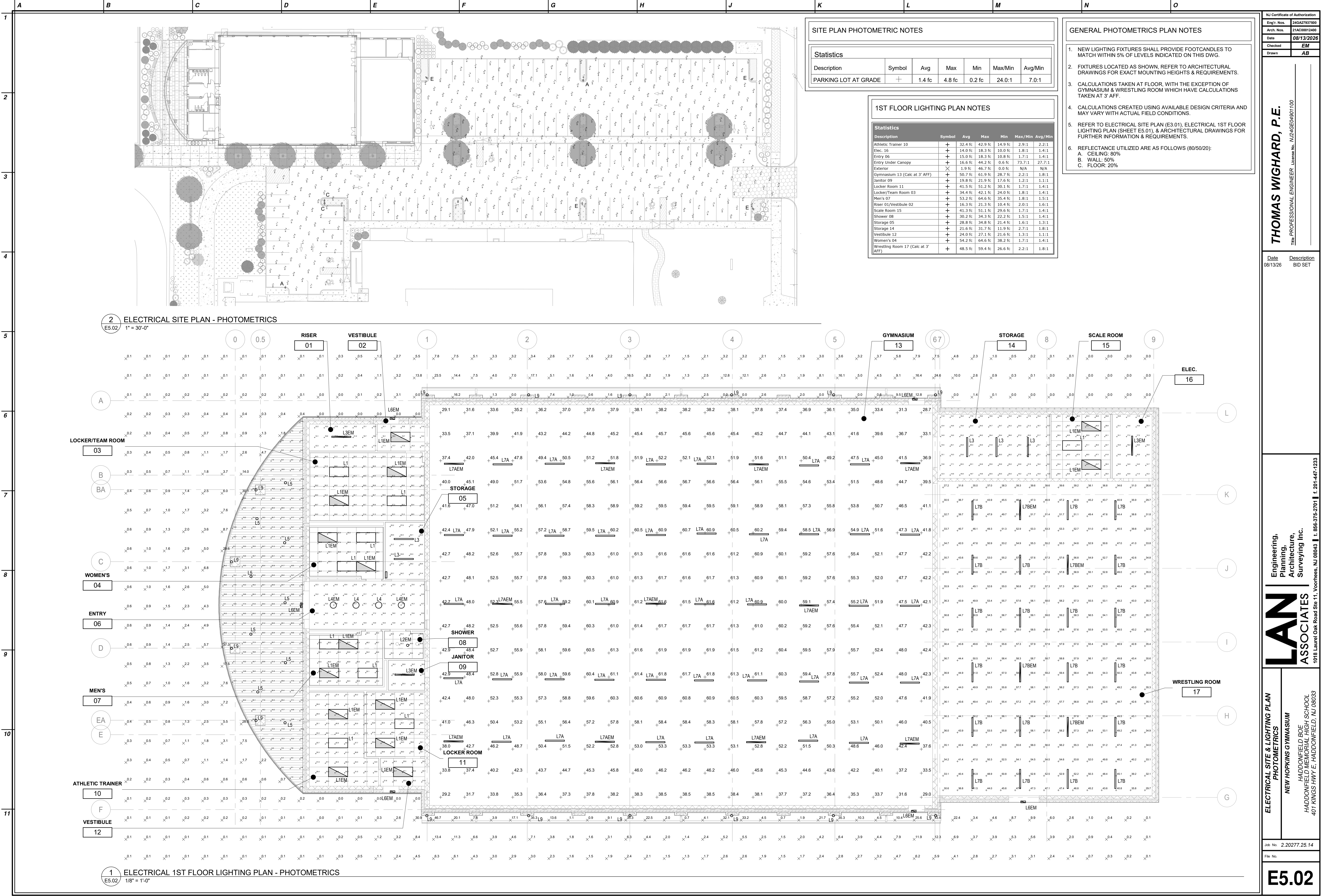
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10000 14th Street, Suite 44, Woodbridge, NJ 07095 • Tel: 908.272.7704 • Fax: 908.427.4593

Job No. 2.20277.25.14

8/17/2026 10:53:28 AM



SITE PLAN PHOTOMETRIC NOTES						
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT AT GRADE	+	1.4 fc	4.8 fc	0.2 fc	24.0:1	7.0:1

1ST FLOOR LIGHTING PLAN NOTES						
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Athletic Trainer 10	+	32.4 fc	42.9 fc	14.9 fc	2.9:1	2.2:1
Elec. 16	+	14.0 fc	18.3 fc	10.0 fc	1.8:1	1.4:1
Entry 06	+	15.0 fc	19.3 fc	10.0 fc	1.7:1	1.4:1
Entry Under Canopy	+	16.6 fc	44.2 fc	0.6 fc	73.7:1	27.7:1
Exterior	X	1.9 fc	46.7 fc	0.0 fc	N/A	N/A
Gymnasium 13 (Calc at 3' AFF)	+	50.7 fc	61.9 fc	28.7 fc	2.2:1	1.8:1
Janitor 09	+	19.8 fc	21.9 fc	17.6 fc	1.2:1	1.1:1
Locker Room 11	+	41.5 fc	51.2 fc	30.1 fc	1.7:1	1.4:1
Locker/Team Room 03	+	34.4 fc	42.1 fc	24.0 fc	1.8:1	1.4:1
Men's 07	+	53.2 fc	64.6 fc	35.4 fc	1.8:1	1.5:1
Riser 01/Vestibule 02	+	16.3 fc	21.3 fc	10.4 fc	2.0:1	1.6:1
Scale Room 15	+	41.3 fc	51.1 fc	29.6 fc	1.7:1	1.4:1
Shower 08	+	30.2 fc	34.3 fc	22.2 fc	1.5:1	1.4:1
Storage 05	+	28.8 fc	34.8 fc	21.4 fc	1.6:1	1.3:1
Storage 14	+	21.6 fc	31.7 fc	11.9 fc	2.7:1	1.8:1
Vestibule 12	+	24.0 fc	27.1 fc	21.6 fc	1.3:1	1.1:1
Women's 04	+	54.2 fc	64.6 fc	38.2 fc	1.7:1	1.4:1
Wrestling Room 17 (Calc at 3' AFF)	+	48.5 fc	59.4 fc	26.6 fc	2.2:1	1.8:1

- GENERAL PHOTOMETRICS PLAN NOTES
- NEW LIGHTING FIXTURES SHALL PROVIDE FOOTCANDLES TO MATCH WITHIN 5% OF LEVELS INDICATED ON THIS DWG.
 - FIXTURES LOCATED AS SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS & REQUIREMENTS.
 - CALCULATIONS TAKEN AT FLOOR, WITH THE EXCEPTION OF GYMNASIUM & WRESTLING ROOM WHICH HAVE CALCULATIONS TAKEN AT 3' AFF.
 - CALCULATIONS CREATED USING AVAILABLE DESIGN CRITERIA AND MAY VARY WITH ACTUAL FIELD CONDITIONS.
 - REFER TO ELECTRICAL SITE PLAN (E3.01), ELECTRICAL 1ST FLOOR LIGHTING PLAN (SHEET E5.01), & ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION & REQUIREMENTS.
 - REFLECTANCE UTILIZED ARE AS FOLLOWS (80/50/20):
A. CEILING: 80%
B. WALL: 50%
C. FLOOR: 20%

NJ Certificate of Authorization

Eng'r. Nos. 24GA27937500

Arch. Nos. 21AC00012400

Date 08/13/2026

Checked EM

Drawn AB

THOMAS WIGHARD, P.E.

Title PROFESSIONAL ENGINEER License No. NJ24GE490100

Date 08/13/26

Description BID SET

Engineering, Planning, Architecture, Surveying Inc.

LAN ASSOCIATES

1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

ELECTRICAL SITE & LIGHTING PLAN PHOTOMETRICS

NEW HOPKINS GYMNASIUM

HADDONFIELD BOE

HADDONFIELD MEMORIAL HIGH SCHOOL

401 KINGS HWY E, HADDONFIELD, NJ 08033

Job No. 2.20277.25.14

File No.

E5.02

E5.52

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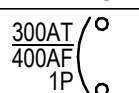
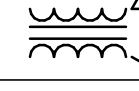
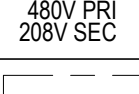
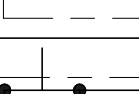
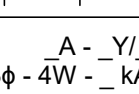
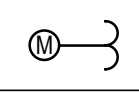
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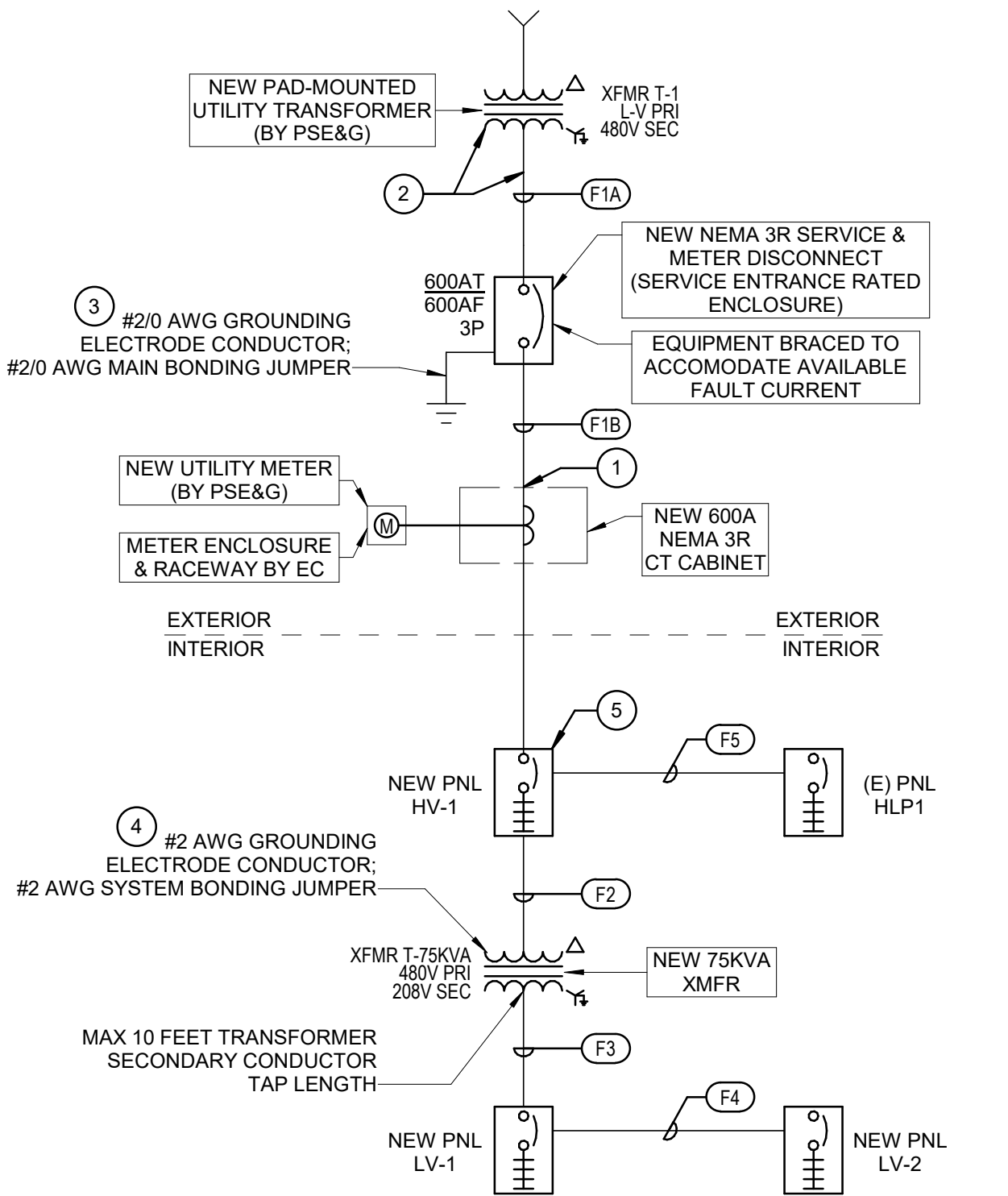
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SINGLE LINE	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER - LOW VOLTAGE, THERMAL MAGNETIC "AT" - TRIP SETTING: "AF" - FRAME SIZE "PD" - No. OF POLES (3-POLE UNLESS NOTED OTHERWISE)
	TRANSFORMER - LOW VOLTAGE, DRY-TYPE WITH COPPER WINDINGS. REFER TO XFMR SCHEDULE FOR ADDITIONAL REQUIREMENTS.
	TRANSFORMER TAG - REFER TO TRANSFORMER SCHEDULE FOR MORE INFORMATION.
	ENCLOSURE
	TROUGH - CODE SIZED WIRING TROUGH
	EQUIPMENT BUS & RATING DATA
	UTILITY METER
	PANELBOARD - MAIN BREAKER OR MAIN LUG AS INDICATED.

CONSTRUCTION KEY NOTES LEGEND	
KEY #	DESCRIPTION
1	GROUND CONDUCTOR IS NOT ALLOWED TO BE RUN INSIDE OF CT CABINET PER PSE&G REQUIREMENTS. CONTRACTOR SHALL ROUTE GROUND WIRE ON THE OUTSIDE OF CT CABINET AND REFER TO PSE&G'S INSTALLATION MANUAL FOR ANY ADDITIONAL REQUIREMENTS.
2	REFER TO CIVIL PLANS FOR PROPOSED SERVICE ENTRANCE CONDUCTORS TRENCHING LOCATIONS; REFER TO TRENCHING DETAILS (SHEET E7.03) FOR FURTHER INFORMATION & REQUIREMENTS.
3	REFER TO SERVICE ENTRANCE GROUNDING DETAIL (SHEET E7.01) FOR FURTHER INFORMATION & REQUIREMENTS.
4	REFER TO SERVICE ENTRANCE GROUNDING DETAIL & TRANSFORMER WIRING DETAIL (SHEET E7.01) FOR FURTHER INFORMATION & REQUIREMENTS.
5	PROVIDE PANELBOARD WITH INTEGRAL TYPE 2 SPD. REFER TO SPECIFICATIONS FOR FUTHER INFORMATION & REQUIREMENTS.

SYMBOL INDICATES CONST. KEY NOTE



1 SINGLE LINE
E6.01 NOT TO SCALE

SCHEDULE OF PANELBOARDS

TAG	LOCATION	VOLTAGE (L-L)	PHASE + WIRE	MAINS TYPE	MCB/MLO RATING	ENCLOSURE	MOUNTING	FED FROM	TOTAL CIRCUITS	NOTES
HV-1	ELEC. 16	480 V	3Ø-4W	MCB	600 A	NEMA 1	SURFACE	SERVICE DISCONNECT	54	SEE BELOW
LV-1	ELEC. 16	208 V	3Ø-4W	MCB	300 A	NEMA 1	SURFACE	T-75KVA	54	SEE BELOW
LV-2	JANITOR 09	208 V	3Ø-4W	MCB	125 A	NEMA 1	SURFACE	LV-1	54	SEE BELOW
(E) HLP1	FIELD	480 V	3Ø-4W	MCB	200 A	NEMA 3R	SURFACE	HV-1	42	SEE BELOW
RELAY-A	ELEC. 16	208 V	3Ø-4W	MCB	300 A	NEMA 1	SURFACE		54	SEE BELOW
RELAY-B	ELEC. 16	208 V	3Ø-4W	MCB	300 A	NEMA 1	SURFACE		54	SEE BELOW

PANELBOARD GENERAL NOTES

- ALL BUSSING SHALL BE COPPER OR ALUMINUM.
- PROVIDE GFCI BREAKERS AS INDICATED ON PLAN & PANEL SCHEDULES.

SCHEDULE OF TRANSFORMERS

TAG	LOCATION	KVA RATING	VOLTAGE	ENCLOSURE	MOUNTING	FED FROM	GEC SIZE	NOTES
T-75KVA	ELEC. 16	75.0 KVA	480V-208Y/120V	NEMA 1	CEILING	HV-1	#2 AWG	SEE BELOW

TRANSFORMER GENERAL NOTES

- PROVIDE TWO 2.5% TAPS ABOVE AND TWO 2.5% TAPS BELOW NORMAL FULL CAPACITY.
- 150" RISE INSULATION.
- WINDINGS SHALL BE COPPER OR ALUMINUM.

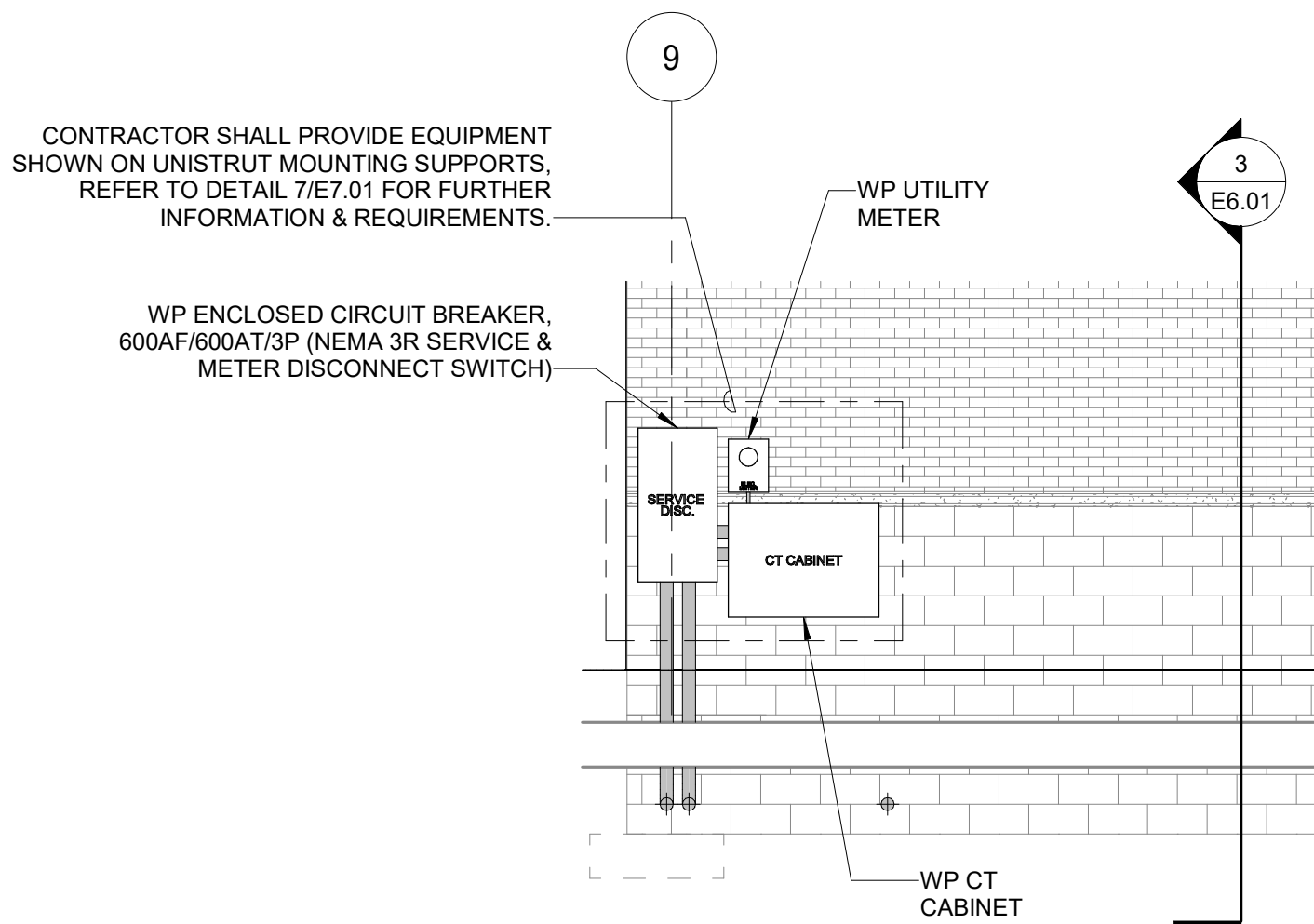
FEEDER KEY NOTES LEGEND

SYMBOL INDICATES FEEDER KEY NOTE

TAG	# OF SETS	CURRENT + NEUTRAL CONDUCTORS	GROUND CONDUCTOR SIZE	RACEWAY SIZE
F1A	2	(4) 350 KCMIL	N/A	3" C.
F1B	2	(4) 350 KCMIL	#1	3" C.
F2	1	(3) #1	#6	1-1/2" C.
F3	1	(4) 350 KCMIL	#2	3" C.
F4	1	(4) #2/0	#4	2" C.
F5	1	(4) #3/0	#6	3" C.

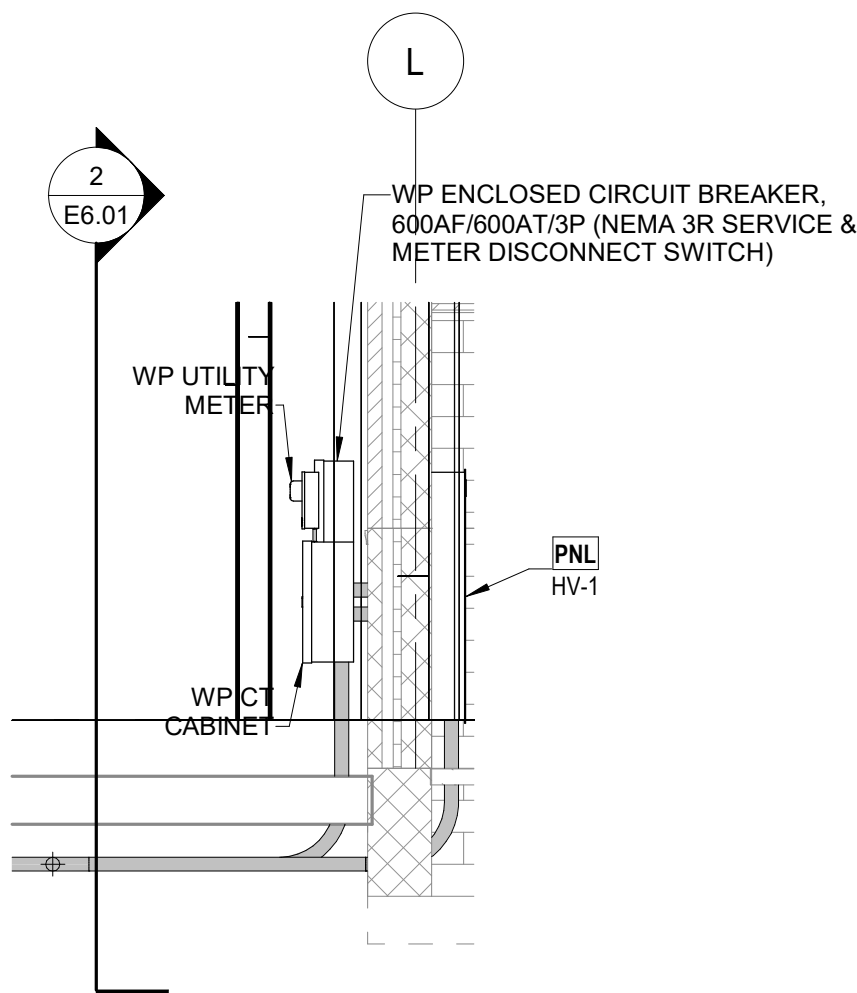
FEEDER KEY NOTES LEGEND GENERAL NOTES

- ALL CONDUCTORS SHALL BE COPPER.
- AMPACITIES ARE CALCULATED BASED ON 60° TERMINATIONS FOR EQUIPMENT RATED 100A OR LESS.
- AMPACITIES ARE CALCULATED BASED ON 75° FOR EQUIPMENT RATED FOR MORE THAN 100A.



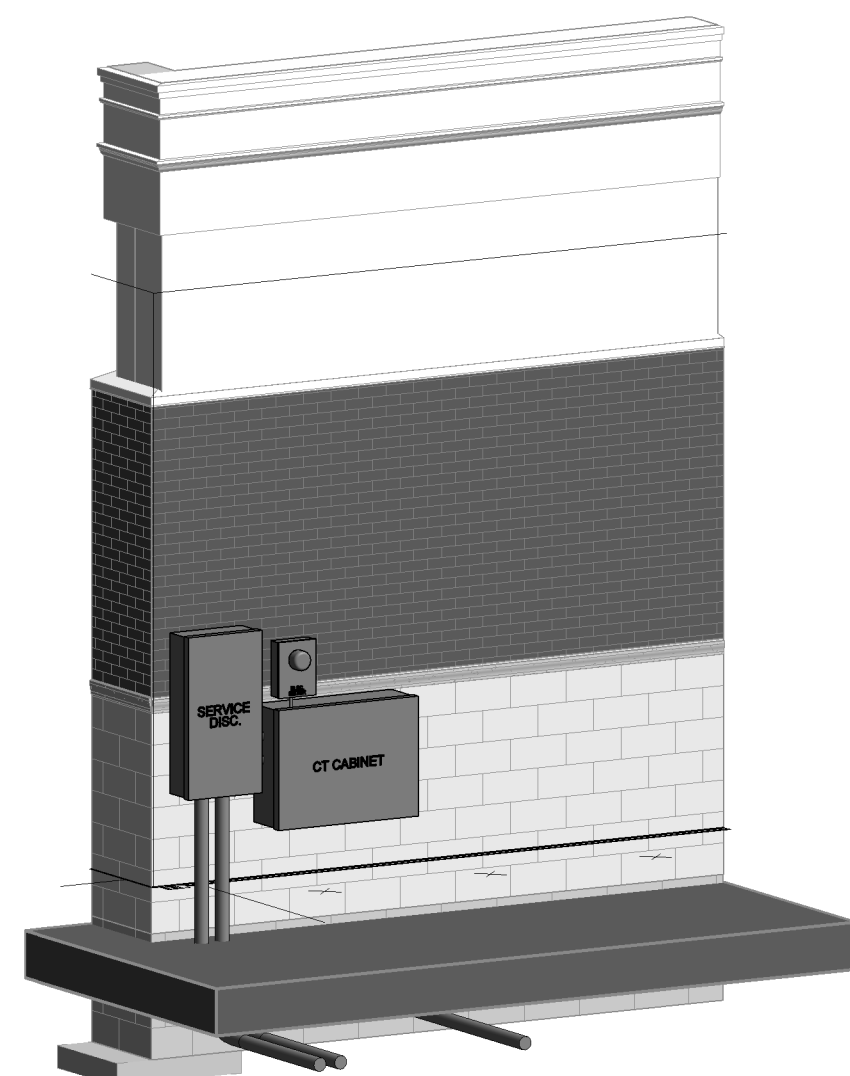
2 ELECTRICAL SERVICE ENTRANCE SECTION 1
E6.01 1/4" = 1'-0"

CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN & CIVIL DRAWINGS FOR OTHER NEW TRENCHED CONDUIT, & OTHER NEW & EXISTING UNDERGROUND SYSTEMS & UTILITIES TO BE PROVIDED WITHIN THIS AREA



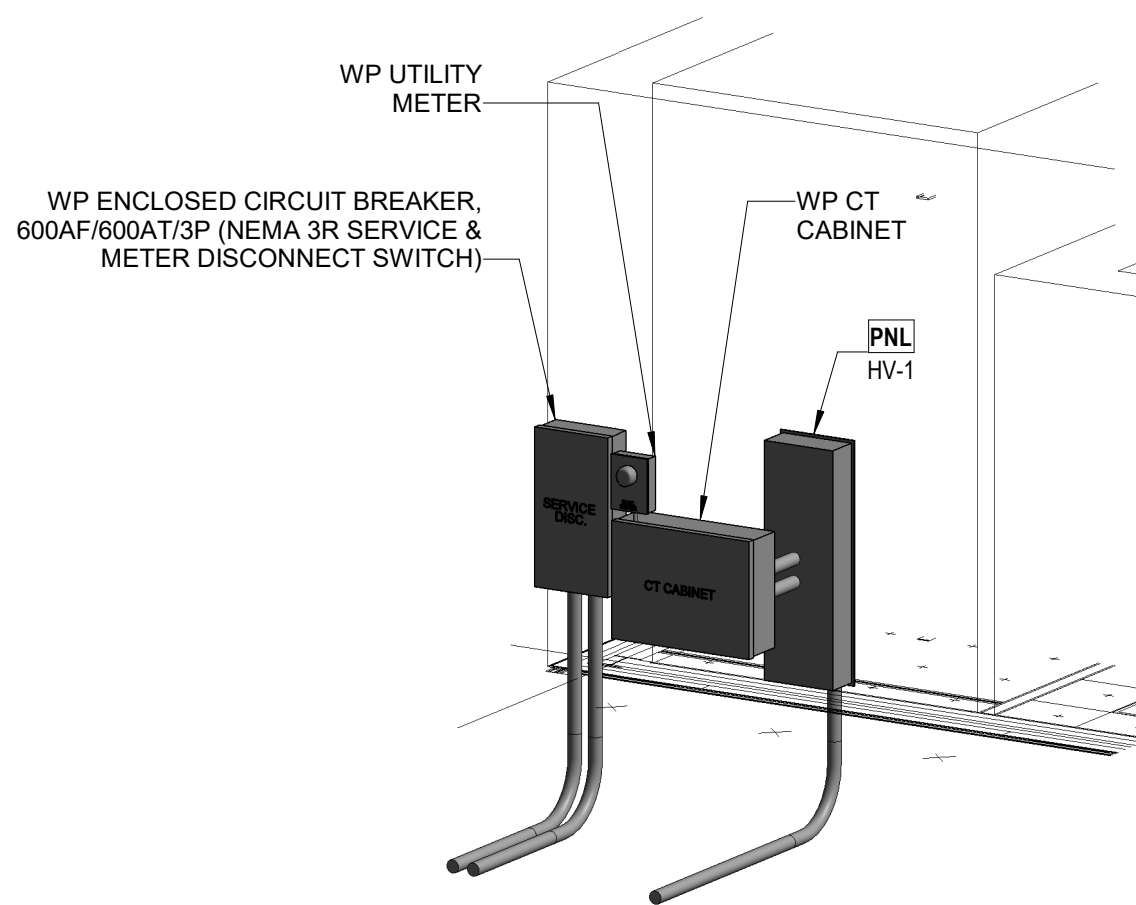
3 ELECTRICAL SERVICE ENTRANCE SECTION 2
E6.01 1/4" = 1'-0"

CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN & CIVIL DRAWINGS FOR OTHER NEW TRENCHED CONDUIT, & OTHER NEW & EXISTING UNDERGROUND SYSTEMS & UTILITIES TO BE PROVIDED WITHIN THIS AREA



4 ELECTRICAL SERVICE ISOMETRIC
E6.01

CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN & CIVIL DRAWINGS FOR OTHER NEW TRENCHED CONDUIT, & OTHER NEW & EXISTING UNDERGROUND SYSTEMS & UTILITIES TO BE PROVIDED WITHIN THIS AREA



5 ELECTRICAL SERVICE CONDUIT PLAN
E6.01

CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN & CIVIL DRAWINGS FOR OTHER NEW TRENCHED CONDUIT, & OTHER NEW & EXISTING UNDERGROUND SYSTEMS & UTILITIES TO BE PROVIDED WITHIN THIS AREA

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	08/13/2026
Checked	EM
Drawn	AB

THOMAS WIGHARD, P.E.
Title PROFESSIONAL ENGINEER License No. NJ24GE490100

Date	Description
08/13/26	BID SET

Engineering,
Planning,
Architecture,
Surveying Inc.

LAN
ASSOCIATES

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ELECTRICAL SINGLE LINE
NEW HOPKINS GYMNASIUM

HADDONFIELD BOE
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Job No.	2.20277.25.14
File No.	

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NEW PANELBOARD NAME:

LOCATION

ELEC. 16

FED FROM:

SURFACE

MOUNTING:

SURFACE

ENCLOSURE RATING:

NEMA 1

C/G/R REFERS TO SIZE OF CURRENT-CARRYING CONDUCTORS, GROUND, AND RACEWAY, RESPECTIVELY.

CKT	LOAD NAME	C/G/R	TRIP/POLE	A	B	C	POLE/TRIP	C/G/R	LOAD NAME	CKT			
1				263	35,456					2			
3	SURGE SUPPRESSION DEVICE	4#10	#10	3/4" C	30 A	3				4			
5					263	35,456				6			
7				28,590	11,911					8			
9	PNL HLP1 (FIELD)	SSL	SSL	SSL	200 A	3				10			
11					26,670	11,911				12			
13				21,278	9,501					14			
15	PNL LV-1 (THRU 75KVA XFMR)	SSL	SSL	SSL	125 A	3				16			
17					22,062	9,501				18			
19						21,398	9,501			20			
19	PARKING LOT POLE LTG	2#12	#12G	3/4" C	20 A	1				22			
21	NORTH EXTERIOR LTG	2#12	#12G	3/4" C	20 A	1				24			
23	SOUTH EXTERIOR LTG	2#12	#12G	3/4" C	20 A	1				26			
25	GYM NORMAL LTG	2#12	#12G	3/4" C	20 A	1				28			
27	WRESTLING NORMAL LTG	2#12	#12G	3/4" C	20 A	1				30			
29	GYM EM LTG	2#12	#12G	3/4" C	20 A	1				32			
31	SPARE				20 A	1				34			
33	SPARE				20 A	1				36			
35	SPARE				20 A	1				38			
37	PREPARED SPACE				--	1				40			
39	PREPARED SPACE				--	1				42			
41	PREPARED SPACE				--	1				44			
43	PREPARED SPACE				--	1				46			
45	PREPARED SPACE				--	1				48			
47	PREPARED SPACE				--	1				50			
49	PREPARED SPACE				--	1				52			
51	PREPARED SPACE				--	1				54			
53	PREPARED SPACE				--	1							
TOTAL LOAD (VA PER PHASE):				119,945 VA	115,440 VA	113,057 VA							
TOTAL LOAD (VA):				348,442 VA									
TOTAL AMPS (A PER PHASE):				434 A	418 A	408 A							
TOTAL AMPS (A):				419 A									
LOAD CLASSIFICATIONS				CONNECTED LOAD (VA)	DEMAND FACTOR	EST. DEMAND (VA)	TOTALS						
HVAC				189,179	100.00%	189,179							
LIGHTING				10,284	100.00%	10,284	TOTAL CONN. LOAD (VA): 348,442						
EQUIPMENT				53,190	100.00%	53,190	TOTAL EST. DEMAND (VA): 345,552						
EXISTING LOADS				80,010	100.00%	80,010	TOTAL CONN. CURRENT (A): 419 A						
RECEPTACLES				15,780	81.69%	12,890	TOTAL EST. CURRENT (A): 416 A						

NEW PANELBOARD NAME: LOCATION ELEC. 16 FED FROM: T-75KVA MOUNTING: SURFACE ENCLOSURE RATING: NEMA 1 C/G/R REFERS TO SIZE OF CURRENT-CARRYING CONDUCTORS, GROUND, AND RACEWAY, RESPECTIVELY.	CKT	LOAD NAME	C/G/R	TRIP/POLE	A	B	C	POLE/TRIP	C/G/R	LOAD NAME	CKT					----------------------------	--------------------------------	-------	-----------	---------------------	---------------	------------------	--------------------------------	-------------------------------	-----------	-----	--	--	--		1				10,618	250					2					3	PNL LV-2	SSL	SSL	SSL	150 A	3				4					5					10,280	250				6					7						7,334	280			8					9	BLEACHER CONTROL PANEL (NORTH)	4#10	#10G	3/4" C	15 A	3				10					11				1,440	1,100					12					13					1,440	1,100				14					15	BLEACHER CONTROL PANEL (SOUTH)	4#10	#10G	3/4" C	15 A	3				16					17				1,440	900					18					19					1,440	540				20					21						1,440	540			22					21	GYM SCOREBOARD OUTLET	2#12	#12G	3/4" C	20 A	1				24					23	HOOP TAPE LIGHTS	2#12	#12G	3/4" C	20 A	1				26					25	GYM RELAY BANK A	2#6	#6G	1" C	30 A	1				28					27	GYM RELAY BANK B	2#6	#6G	1" C	30 A	1				30					29	SPARE				20 A	1				32					31	SPARE				20 A	1				34					33	SPARE				20 A	1				36					35	SPARE				20 A	1				38					37	PREPARED SPACE				--	1				40					39	PREPARED SPACE				--	1				42					41	PREPARED SPACE				--	1				44					43	PREPARED SPACE				--	1				46					45	PREPARED SPACE				--	1				48					47	PREPARED SPACE				--	1				50					49	PREPARED SPACE				--	1				52					51	PREPARED SPACE				--	1				54					53	PREPARED SPACE				--	1									TOTAL LOAD (VA PER PHASE):				21,278 VA	22,062 VA	21,398 VA									TOTAL LOAD (VA):				64,737 VA											TOTAL AMPS (A PER PHASE):				177 A	184 A	178 A									TOTAL AMPS (A):				180 A																										LOAD CLASSIFICATIONS				CONNECTED LOAD (VA)	DEMAND FACTOR	EST. DEMAND (VA)	TOTALS								HVAC				18,574	100.00%	18,574									LIGHTING				1,983	100.00%	1,983	TOTAL CONN. LOAD (VA): 64,737								EQUIPMENT				28,400	100.00%	28,400	TOTAL EST. DEMAND (VA): 61,847								RECEPTACLES				15,780	81.69%	12,890	TOTAL CONN. CURRENT (A): 180 A																TOTAL EST. CURRENT (A): 172 A						
NEW PANELBOARD NAME: LOCATION JANITOR 09 FED FROM: LV-1 MOUNTING: SURFACE ENCLOSURE RATING: NEMA 1 C/G/R REFERS TO SIZE OF CURRENT-CARRYING CONDUCTORS, GROUND, AND RACEWAY, RESPECTIVELY.	CKT	LOAD NAME	C/G/R	TRIP/POLE	A	B	C	POLE/TRIP	C/G/R	LOAD NAME	CKT					----------------------------	-------------------------	-------	-----------	---------------------	---------------	------------------	--------------------------------	------------------------------	-----------	-----	--	--	--		1				3,120	1,500					2					3	STORAGE WASHER/DRYER	2#8	#8G	3/4" C	30 A	2				4					5					3,120	1,500				6					7	TX-G (ROOF)	2#12	#12G	3/4" C	15 A	2				8					9				198	1,500					10					11	TX-B (ROOF)	2#12	#12G	3/4" C	15 A	2				12					13					198	1,500				14					13	DOAS-L OUTLET	2#10	#10G	3/4" C	20 A	1				16					15	ENTRY OUTLETS	2#10	#10G	3/4" C	20 A	1				18					17	STOR&WOMEN OUTLETS	2#10	#10G	3/4" C	20 A	1				20					19	SHOW&MEN OUTLETS	2#12	#12G	3/4" C	20 A	1				22					21	LOCK&VEST 2/3 OUTLETS	2#10	#10G	3/4" C	20 A	1				24					23	LOCK&VEST 11/12 OUTLETS	2#12	#12G	3/4" C	20 A	1				26					25	TRAINER CTR 1 OUTLETS	2#12	#12G	3/4" C	20 A	1				28					27	TRAINER CTR 2 OUTLETS	2#12	#12G	3/4" C	20 A	1				30					29	TRAINER CONV OUTLETS	2#10	#10G	3/4" C	20 A	1				32					31	TRAINER ICE OUTLET	2#12	#12G	3/4" C	20 A	1				34					33	WEST EXTERIOR LTG	2#12	#12G	3/4" C	20 A	1				36					35	WEST INTERIOR LTG	2#12	#12G	3/4" C	20 A	1				38					37	SPARE				20 A	1				40					39	SPARE				20 A	1				42					41	SPARE				20 A	1				44					43	PREPARED SPACE				--	1				46					45	PREPARED SPACE				--	1				48					47	PREPARED SPACE				--	1				50					49	PREPARED SPACE				--	1				52					51	PREPARED SPACE				--	1				54					53	PREPARED SPACE				--	1									TOTAL LOAD (VA PER PHASE):				10,618 VA	10,280 VA	7,334 VA									TOTAL LOAD (VA):				28,231 VA											TOTAL AMPS (A PER PHASE):				92 A	89 A	61 A									TOTAL AMPS (A):				78 A																										LOAD CLASSIFICATIONS				CONNECTED LOAD (VA)	DEMAND FACTOR	EST. DEMAND (VA)	TOTALS								HVAC				9,790	100.00%	9,790									LIGHTING				1,471	100.00%	1,471	TOTAL CONN. LOAD (VA): 28,231								EQUIPMENT				10,390	100.00%	10,390	TOTAL EST. DEMAND (VA): 28,231								RECEPTACLES				6,580	100.00%	6,580	TOTAL CONN. CURRENT (A): 78 A																TOTAL EST. CURRENT (A): 78 A						
NEW PANELBOARD NAME: LOCATION LV-1 FED FROM: LV-1 MOUNTING: SURFACE ENCLOSURE RATING: NEMA 1 C/G/R REFERS TO SIZE OF CURRENT-CARRYING CONDUCTORS, GROUND, AND RACEWAY, RESPECTIVELY.	CKT	LOAD NAME	C/G/R	TRIP/POLE	A	B	C	POLE/TRIP	C/G/R	LOAD NAME	CKT		-----	----------------------	-------	-----------	--------	-------	-------	-----------	-------	-----------	-----		1				3,120	1,500					2		3	STORAGE WASHER/DRYER	2#8	#8G	3/4" C	30 A	2				4		5					3,120	1,500				6		7	TX-G (ROOF)	2#12	#12G	3/4" C	15 A	2				8		9				198	1,500					10		11	TX-B (ROOF)	2#12	#12G	3/4" C	15 A	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

ALL EQUIPMENT WHERE THE RISK OF ARC FLASH EXISTS, i.e.,:
SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, MOTOR
CONTROL CENTERS, DISCONNECT SWITCHES, HVAC EQUIPMENT, ETC.,
SHALL BE FIELD MARKED WITH LABELS PER NFPA 70E FOR MINIMUM PPE
REQUIREMENTS.



Diagram of a DISTR PANEL with dimensions and text:

- Overall width: 6"
- Overall height: 4"
- Top and bottom flange thickness: 1/2"
- Left and right flange thickness: 1/2"
- Text on panel:
 - DISTR PANEL**
 - XXX**
 - XXXV.X PHASE, X WIRE,
 - 60HZ FED FROM
 - BREAKER XX
 - SWITCHBOARD XXX
- Callouts:
 - BEVELED EDGES (pointing to the top-left corner)
 - 1/8" HOLE FOR POP RIVETS, 4 PLACES (pointing to the four corner holes)

FIRST LINE: EQUIPMENT DESIGNATION
SECOND LINE: VOLTAGE, PHASE, No. OF WIRE, FREQUENCY
THIRD AND FOURTH LINES: POWER SOURCE AND BREAKER
"XXX": BASED ON FINAL SHOP DRAWING AND
INSTALLED EQUIPMENT CIRCUIT NUMBER
TRANSFORMERS: INCLUDE LINE INDICATING "FEEDS TO"

TOP ROW: 1" LETTERS
OTHER ROWS: 1/2" LETTERS
BETWEEN ROWS: 1/4" LETTERS BETWEEN 1ST & 2ND
1/8" FOR OTHER ROWS

LETTERING SHALL BE WHITE ON A BLACK BACKGROUND
FOR TRANSFORMERS, INCLUDE PRI & SEC VOLTAGES, PRI AND SEC
CONNECTIONS (E.G., DELTA, WYE, ETC.) AND EQUIPMENT SERVING.

ENGRAVED PLASTIC NAMEPLATES AND SIGNS: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE, MINIMUM 1/16" THICK FOR SIGNS UP TO 20 SQ. IN. AND 1/8" THICK FOR LARGER SIZES. ENGRAVED LEGEND WITH WHITE LETTERS ON BLACK OR RED BACKGROUND, WHITE LETTERS ON RED FACE FOR EMERGENCY POWER, PUNCHED OR DRILLED FOR MECHANICAL FASTENERS. TEXT AT 1/2" HIGH LETTERING.

NAMEPLATES SHALL ADEQUATELY DESCRIBE THE FUNCTION OF THE PARTICULAR EQUIPMENT INVOLVED. WHERE NAMEPLATES ARE DETAILED ON THE DRAWINGS, INSCRIPTION AND SIZE OF LETTERS SHALL BE AS SHOWN AND SHOP DRAWING SUBMITTED FOR APPROVAL. THE FOLLOWING ARE REQUIRED: PANELBOARDS AND SWITCHBOARDS SHALL INCLUDE THE PANEL DESIGNATION, VOLTAGE, PHASE AND HAZARDS, THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT. THE NEC LABELING REQUIREMENTS APPLY TO ANY ELECTRICAL EQUIPMENT INSTALLED IN OR ON MOTOR VEHICLES. A WARNING LABEL SHALL COMPLY WITH ANSI Z353.4 WHICH SPECIFIES COLORS AND SIGNAL WORDS TO BE USED.

PER NEC 408.4(A), EVERY CIRCUIT AND CIRCUIT IDENTIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OF USE.

PER NEC 700.7(B) AND NEC 701.7, FURNISH AND INSTALL WARNING LABEL THAT WARNS OF A SHOCK HAZARD IF THE GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS TYPE OF EQUIPMENT IS REMOVED WHILE ALTERNATE ENERGY SOURCES ARE ENERGIZED



DETAIL SYMBOL LEGEND:

 SYSTEM GROUNDING
ELECTRODE CONDUCTOR
 EQUIPMENT GROUND
CONDUCTOR
 SYSTEM NEUTRAL
 BUS BAR

DETAIL GENERAL NOTES:

1. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
2. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING A CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING A CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
4. BOND HOT AND COLD WATER PIPING SYSTEMS.



40' (MIN) OF PRIMARY CABLE ABOVE TOP OF CONDUIT SHALL BE PROVIDED TO FACILITATE TERMINATION BY UTILITY. MIN. DIAMETER OF COIL SHALL BE 3'-0". CABLE SHALL BE SUPPORTED SUCH THAT THE FIRST BEND OF COIL IS NOT RESTING ON CONDUIT. ALL CABLE ENDS SHALL BE SEALED WITH HEAT SHRINK END CAPS.

INSTALL A PVC COUPLING ON TOP OF RISER PIPE. REMAINDER OF CONDUIT WILL BE INSTALLED BY THE UTILITY.

UTILITY RISER POLE, BY UTILITY

NON-METALLIC, SCH. 80 RISER PIPE SHALL BE LOCATED THE POLE WHERE THE UTILITY HAS A CLEAR AREA TO COMPLETE THE CONDUIT INSTALLATION TO THE TOP OF POLE, JUST BELOW THE PRIMARY WIRES AND, WHEN POSSIBLE ON THE SIDE AWAY FROM TRAFFIC.



NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	08/13/2024
Checked	EM
Drawn	AB

THOMAS WIGHARD, P.E.

<u>Date</u>	<u>Description</u>
08/13/26	BID SET

LAN ASSOCIATES
Engineering,
Planning,
Architecture,
Surveying Inc.

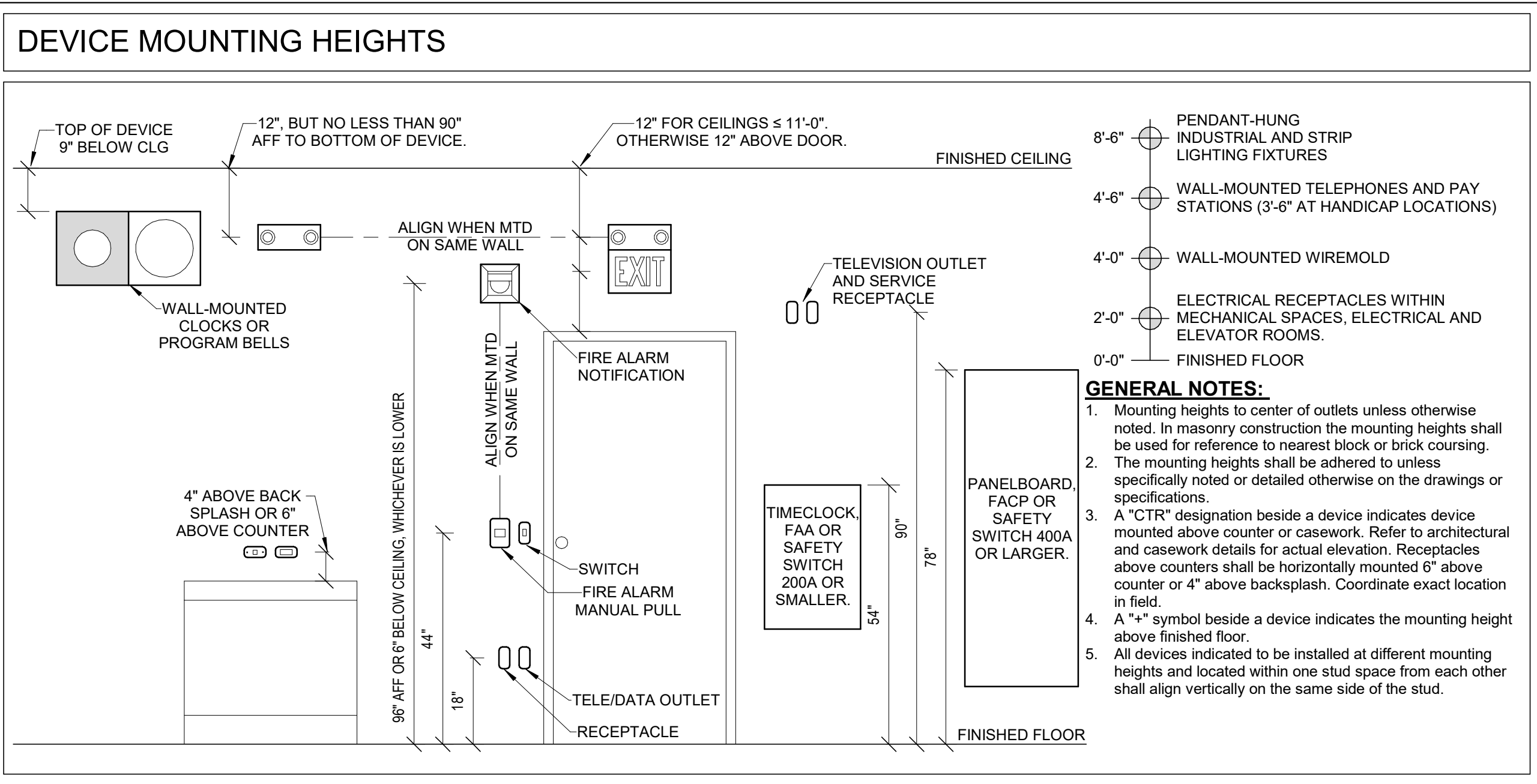
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 ■ t 856-375-2701 ■ f 201-447-1233

ELECTRICAL DETAILS I
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

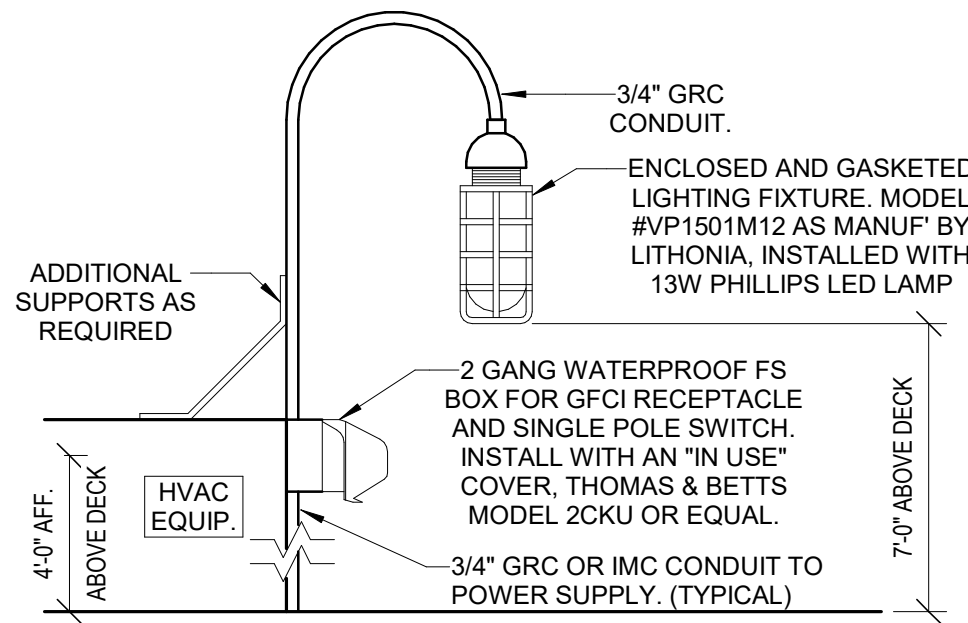
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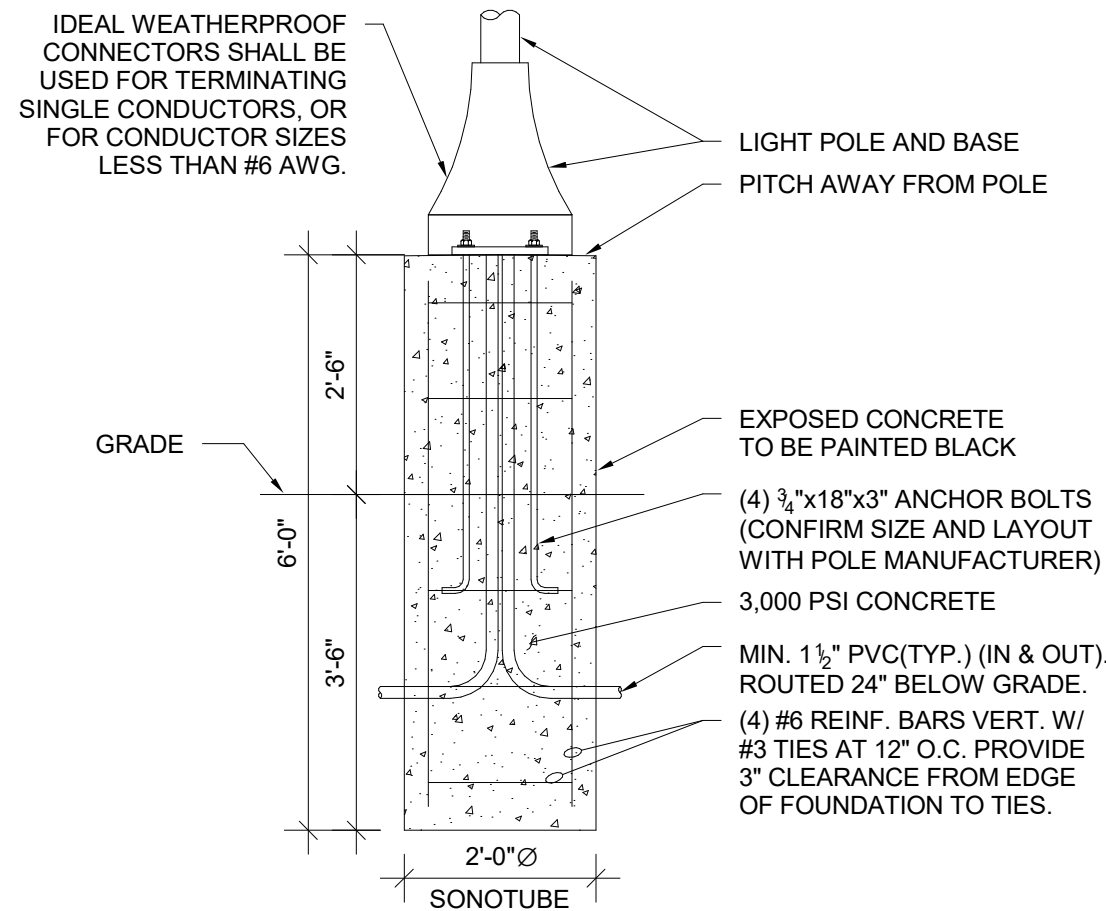
E7.01



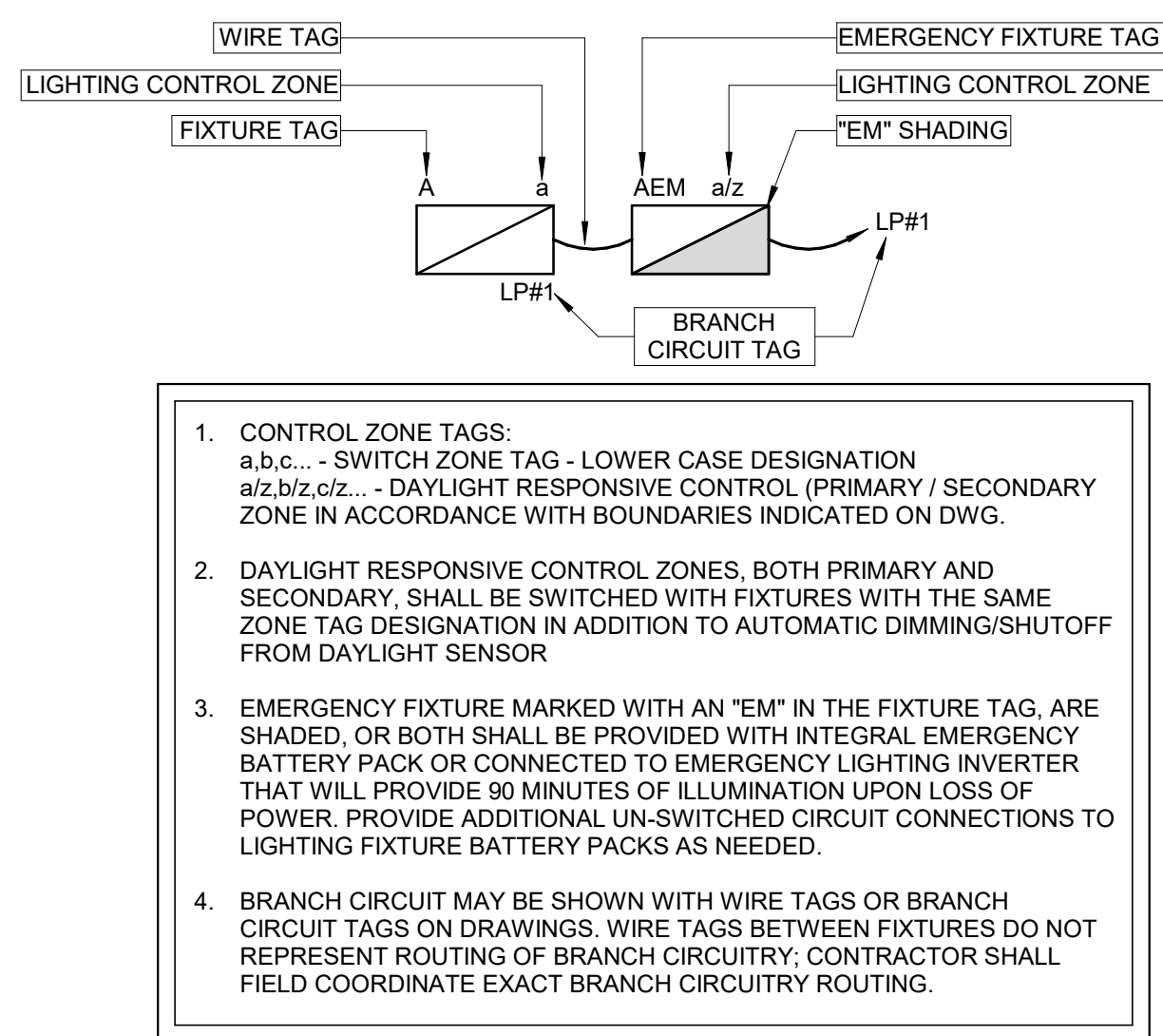
1 DEVICE MOUNTING HEIGHTS
E7.02 NOT TO SCALE



2 HVAC ROOF RECEPTACLE/LIGHT DETAIL
E7.02 NOT TO SCALE

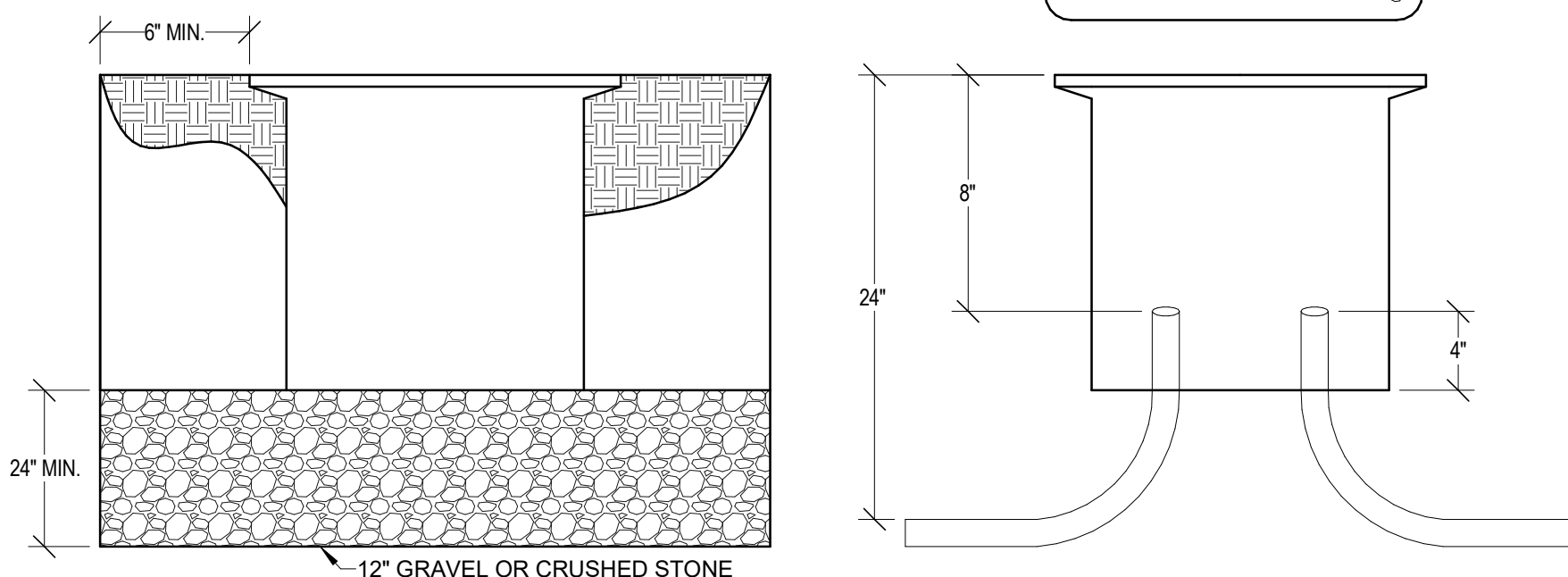


3 RAISED LIGHT POLE FOUNDATION DETAIL
E7.02 NOT TO SCALE

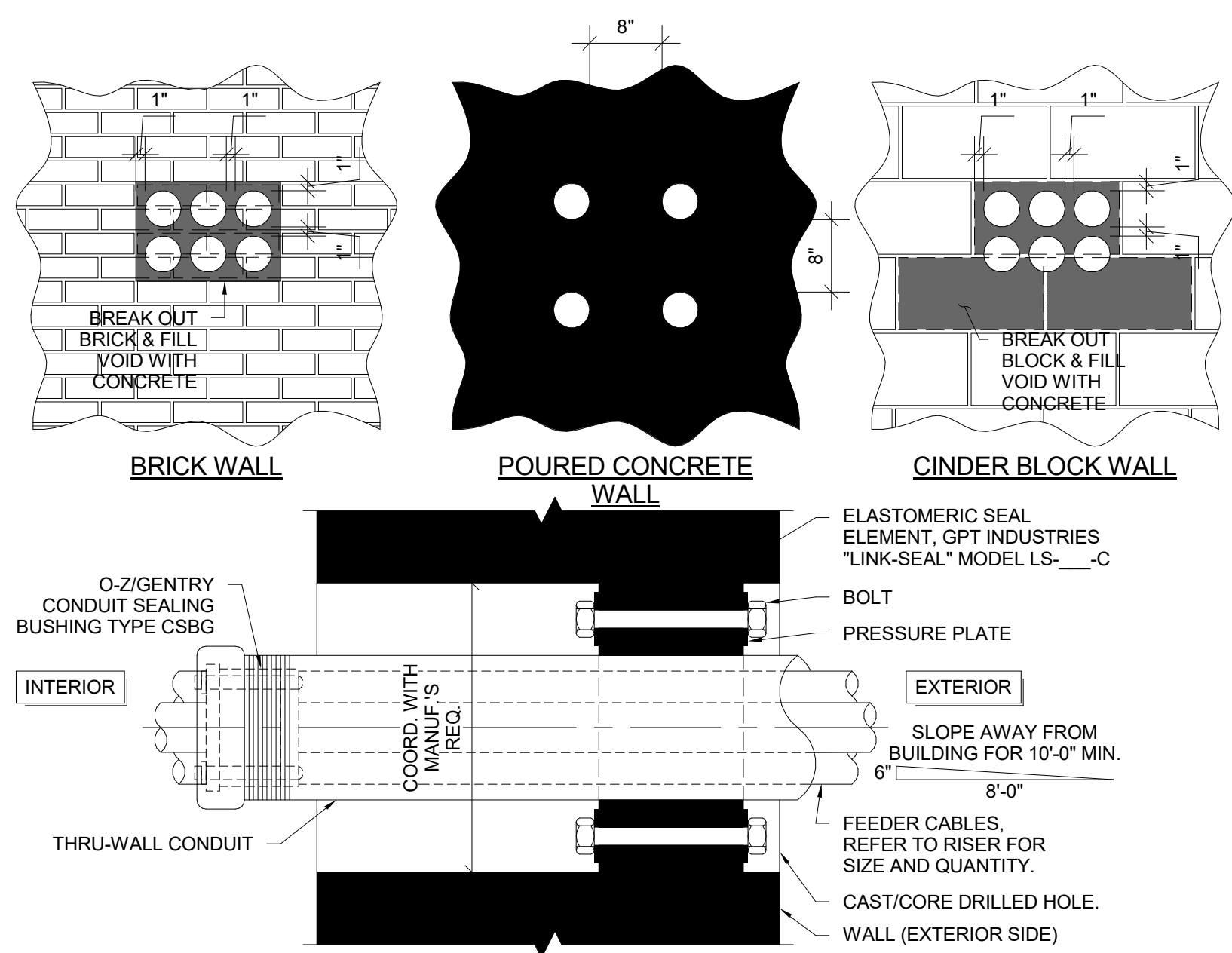


4 TYPICAL LIGHTING DESIGNATIONS
E7.02 NOT TO SCALE

- NOTE**
1. QUAZITE BOX TO BE CONSTRUCTED OF POLYMER CONCRETE. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL.
 2. BOX LID TO BE LEGIBLY MARKED "ELECTRIC"
 3. LID TO BE OF SAME CONSTRUCTION AS BOX AND SHALL COME WITH 2 STAINLESS STEEL 3/8-16" x 1-1/2" HEX HEAD BOLTS.
 4. CONTRACTOR SHALL PROVIDE A MINIMUM OF 24" OF STONE BENEATH QUAZITE BOX TO AVOID BUILD OF WATER IN ENCLOSURE.
 5. TIER 15 LOAD RATING.
 6. CONDUITS MUST MAINTAIN A 12" SEPERATION FROM OTHER CONDUITS (ELECTRICAL, GAS, ETC.).
 7. DIMENSIONS OF BOX SHALL BE AS REQUIRED BY NEC UNLESS NOTED OTHERWISE.
 8. WIRING ENTRIES INTO HANDHOLDS ARE REQUIRED TO EXTEND INTO, BUT NOT MECHANICALLY CONNECTED TO THE HANDHOLE ENCLOSURE.
 9. UNITS SHALL BE DESIGNED FOR FLUSH BURIAL AND HAVE OPEN BOTTOM. INSTALL HANDHOLDS AND BOXES LEVEL AND PLUMB AND WITH ORIENTATION AND DEPTH COORDINATED WITH CONNECTING CONDUITS TO MAXIMUM BENDS AND DEFLECTIONS REQUIRED FOR PROPER ENTRANCES. THE CONTRACTOR SHALL COORDINATE THE LAYOUT AND INSTALLATION OF THE HANDHOLE WITH FINAL ARRANGEMENTS OF SITE GRADING AND SURFACE FEATURES AS DETERMINED IN THE FIELD.
 10. SET HANDHOLE SO THE COVER SURFACE WILL BE FLUSH WITH THE FINISHED GRADE IN ADJACENT AREAS.



5 ELECTRICAL HANDHOLE DETAIL
E7.02 NOT TO SCALE



6 ELECTRICAL THRU-WALL CONDUIT SEAL
E7.02 12" = 1'-0"

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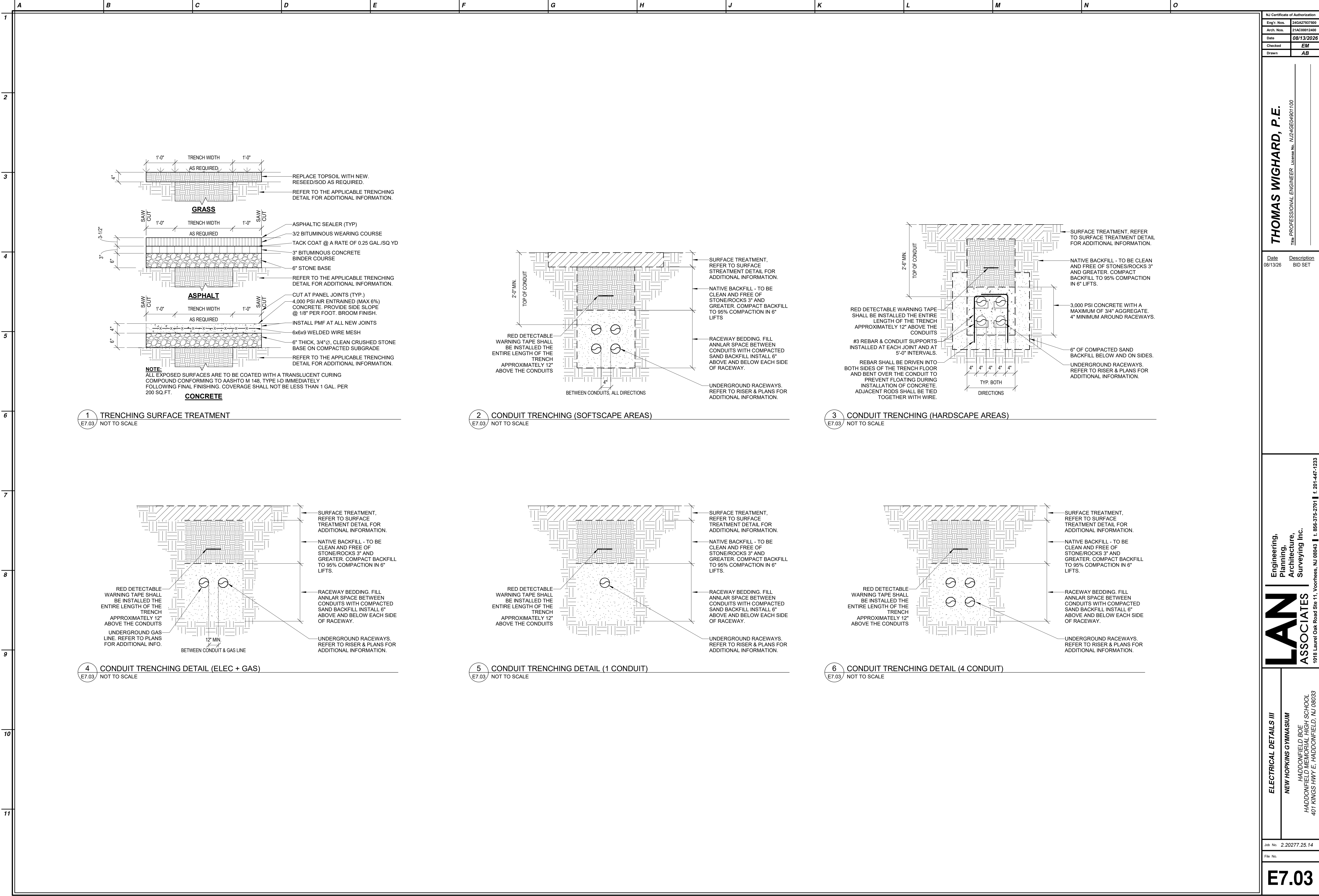
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ELECTRICAL DETAILS II
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

Job No.	2.20277.25.14
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E7.02



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Date	Description
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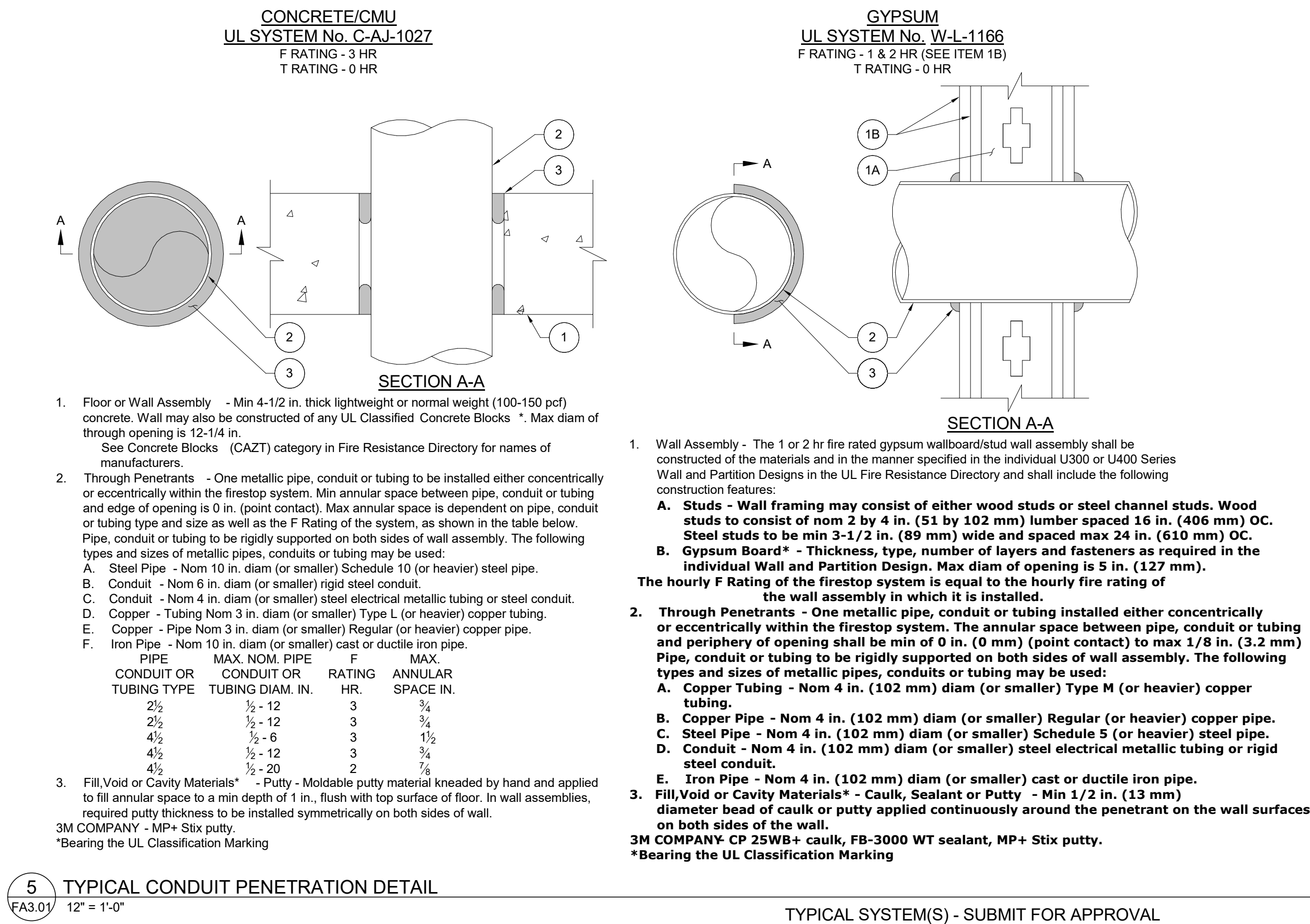
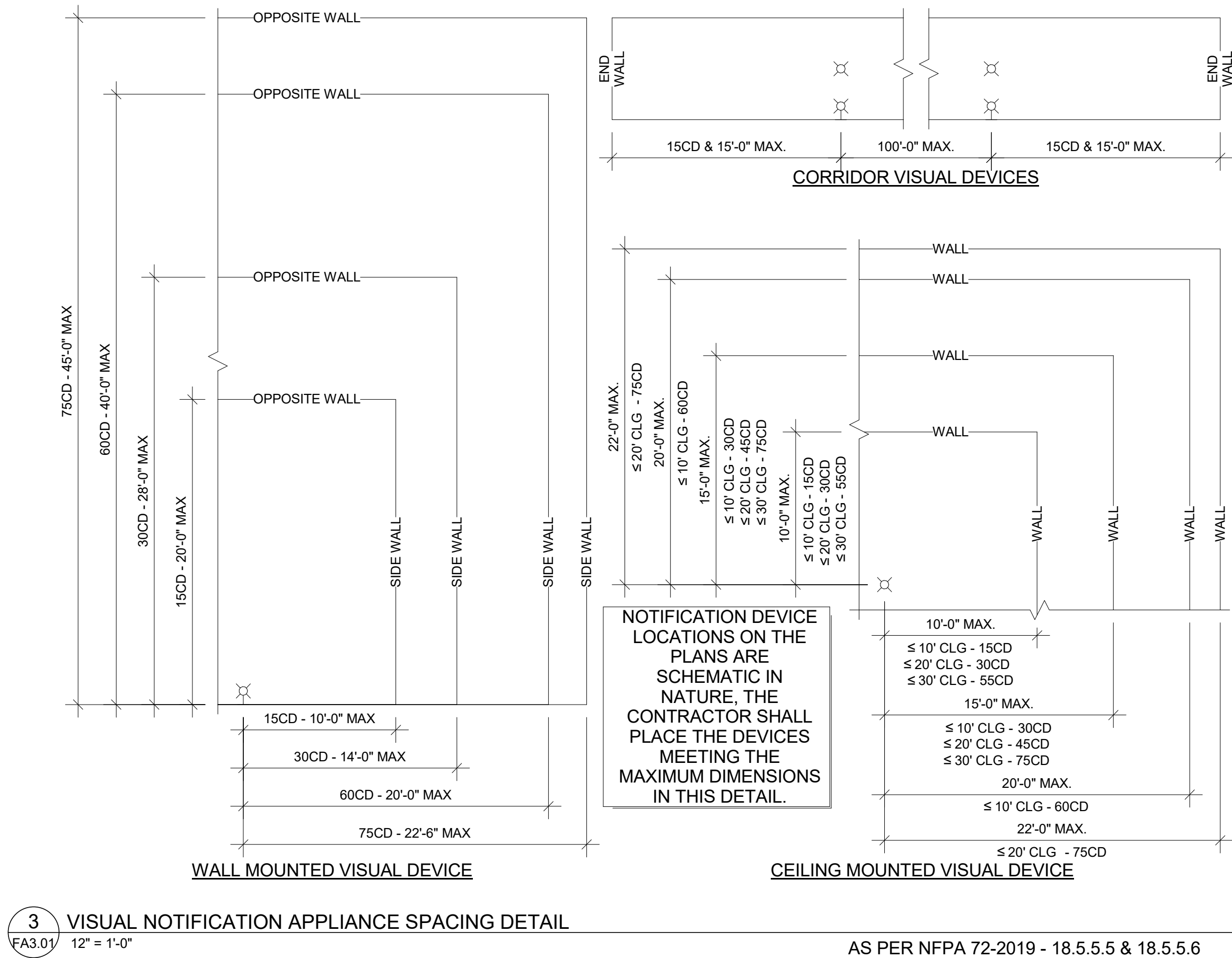
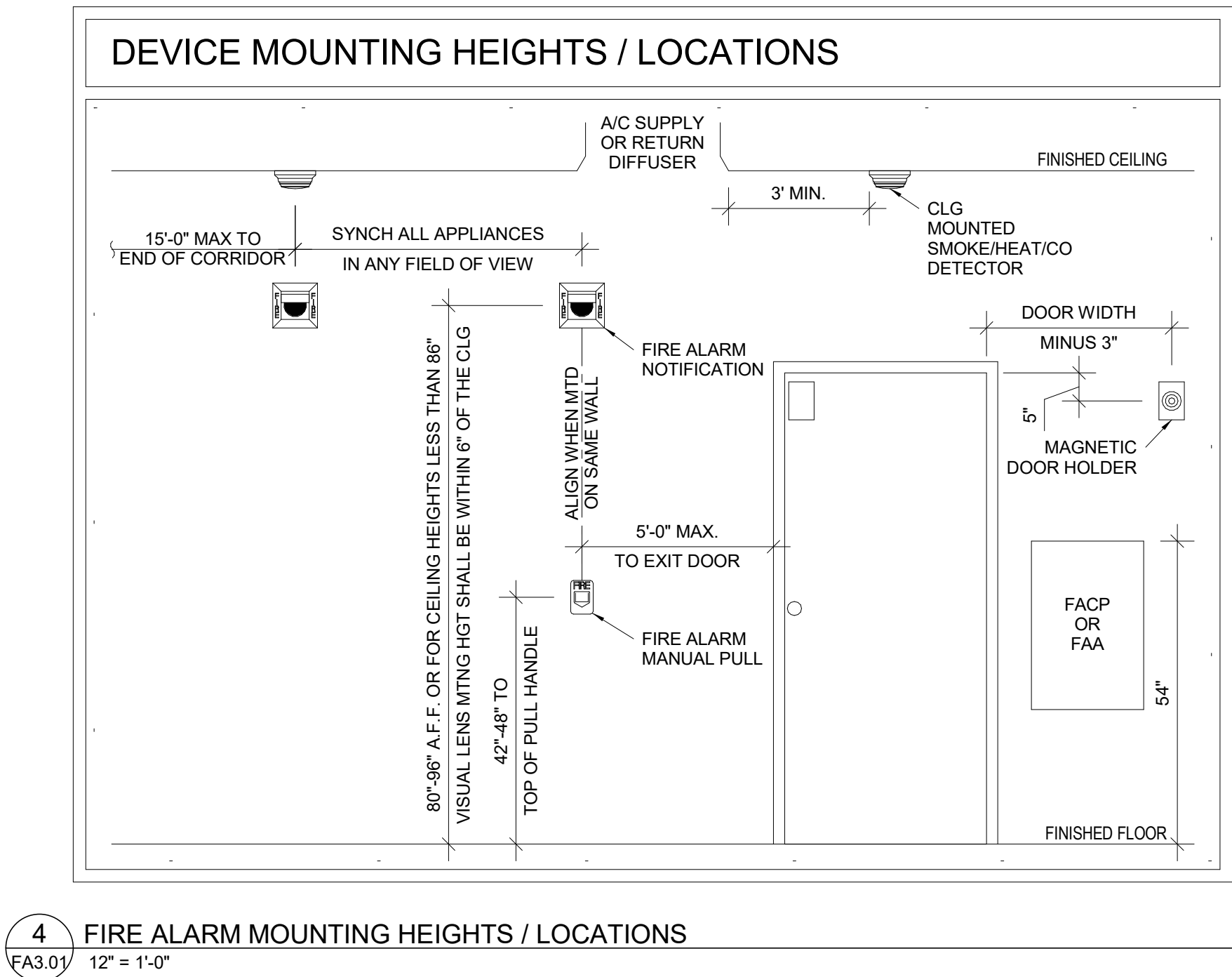
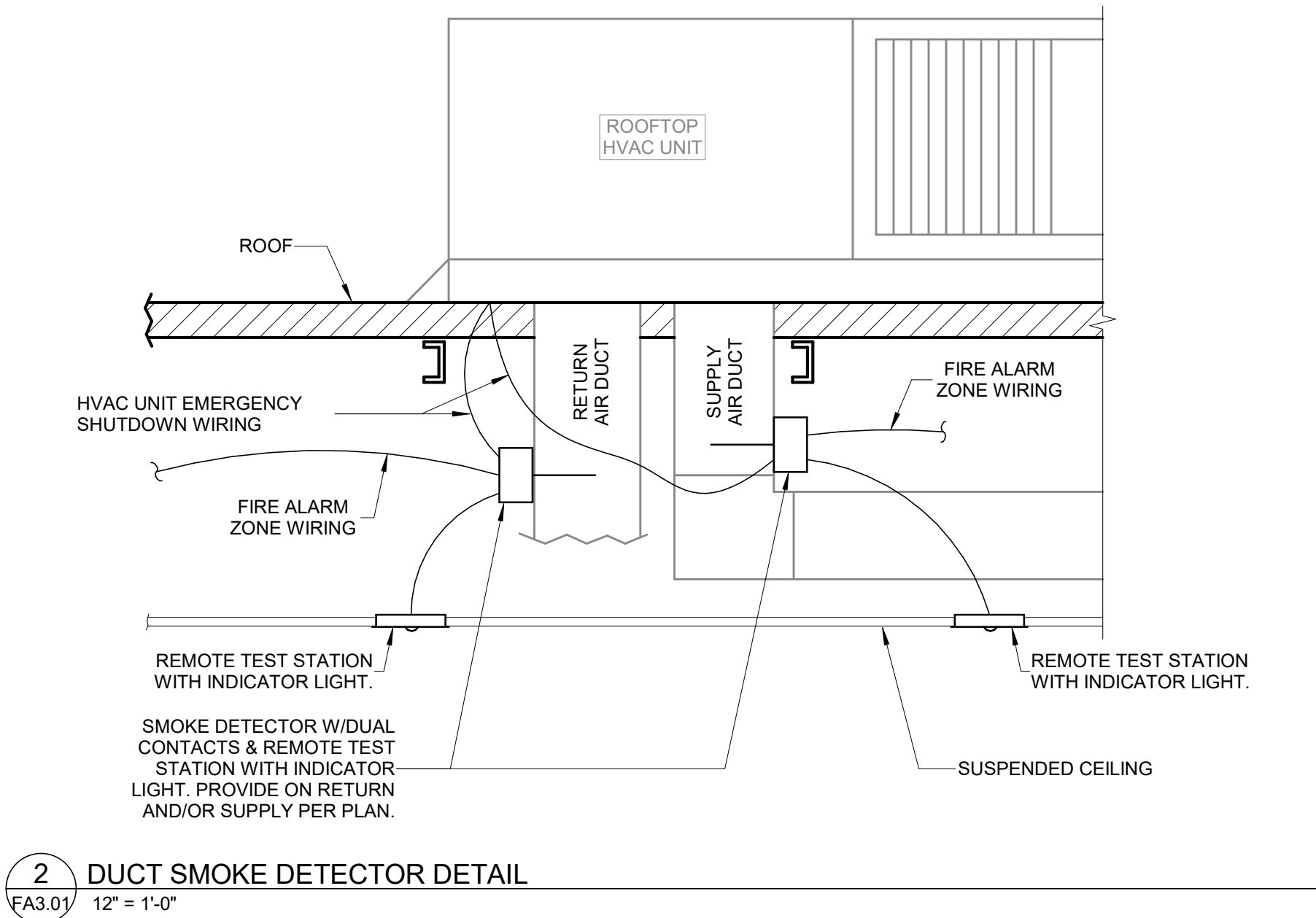
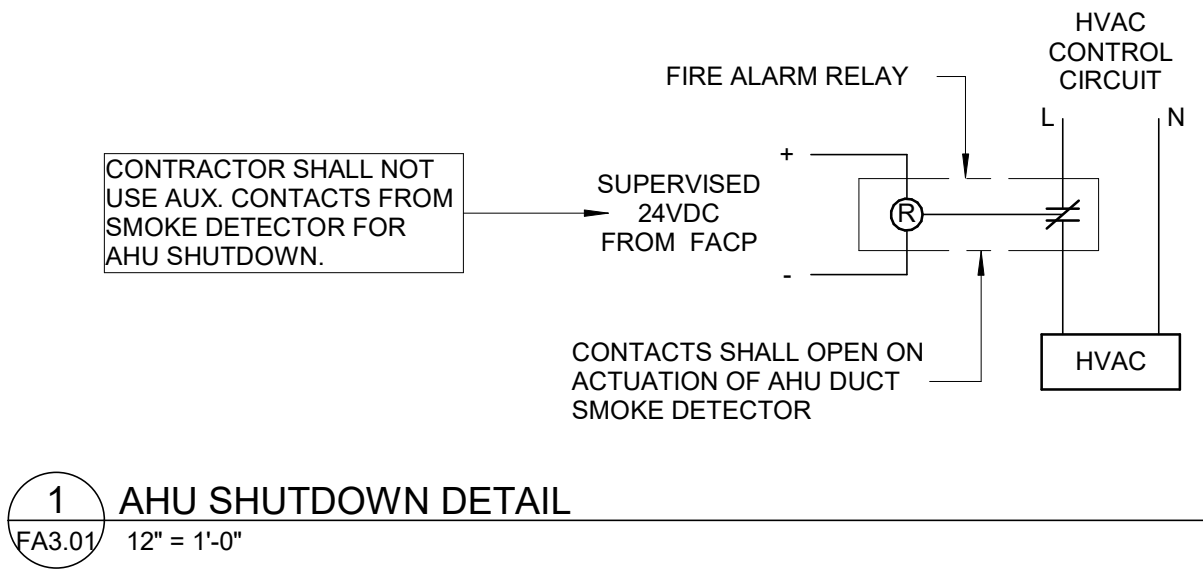
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ELECTRICAL DETAILS III
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

Job No.	2.20277.25.14
File No.	

E7.03

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NJ Certificate of Authorization

Eng'r. Nos. 24GA27937590

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Date 08/13/2026

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THOMAS WIGHARD, P.E.
Title PROFESSIONAL ENGINEER License No. NJ24GE490100

Date 08/13/26 Description BID SET

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FIRE ALARM DETAILS
NEW HOPKINS GYMNASIUM
HADDONFIELD BOE
HADDONFIELD MEMORIAL HIGH SCHOOL
401 KINGS HWY E, HADDONFIELD, NJ 08033

Job No. 2.20277.25.14
File No.

FA3.01