

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
PINEBROOKE OFFICE PARK - FIRING RANGE AND WORKOUT GYM

PERMIT DOCUMENTS

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wilderarchitecture.com

AA26000655

WILDERARCHITECTURE, INC.

PROJECT TEAM

ANSTON-GREENLEES, INC.
1315 W. FLETCHER AVE.
TAMPA, FL 33612

MILLER STRUCTURAL ENGINEERING
320 W. KENNEDY BLVD. STE. 700
TAMPA, FL 33608

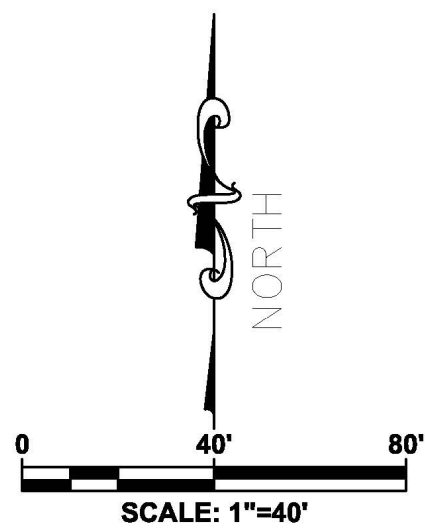
HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
2008 EAST 8TH AVENUE
TAMPA, FLORIDA 33605

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
FIRING RANGE AND WORKOUT GYM
PINEBROOKE BUSINESS PARK

PROJECT #: 1626-00

PERMIT SET

1/16/17



ITEM 22) A NON-EXCLUSIVE VEHICULAR AND PEDESTRIAN ACCESS, INGRESS AND EGRESS EASEMENT CREATED IN FAVOR OF MOUNTAIN HIGH PINEBROOK, LLC, A FLORIDA LIMITED LIABILITY COMPANY MUSA AT PINEBROOK, LLC, A FLORIDA LIMITED LIABILITY COMPANY, MINOR PINEBROOK, LLC, A FLORIDA LIMITED LIABILITY COMPANY, RAMAKEYS PINEBROOK, LLC, A FLORIDA LIMITED LIABILITY COMPANY, TSL PINEBROOK, LLC, A FLORIDA LIMITED LIABILITY COMPANY, AND JDL PINEBROOK, LLC, A FLORIDA LIMITED LIABILITY COMPANY, TO BE RECORDED IN THE PUBLIC RECORDS OF HILLSBORO COUNTY, FLORIDA. DOCUMENT NOT RECORDED TO SURVEYORS KNOWLEDGE AT THE TIME OF THIS SURVEY - NOT SHOWN.





[illegible]

1	4/21/15	REVISED TITLE BLOCK PARCEL NUMBERS	APP'D
NO.	DATE	REVISIONS DESCRIPTION	APP'D

CIP/CIT PROJECT NO.:
GEOMATICS PROJ. NO.: S17-0124

- 1) This is a Topographic Survey of a portion of Hillsborough County Folio 067913.0050 within an area as delineated by client.
- 2) Property lines as shown hereon were taken from a Boundary Survey performed by Cardno for Hillsborough County titled "PINEBROOKE BUSINESS PARK BOUNDARY SURVEY - PARCELS 1, 2, 3, & 4", Project No. F15-0016, last revision dated 04/21/2015.
- 3) Bearings as shown hereon are referenced to the Florida State Plane Coordinate System, Florida West Zone, North American Datum 1983 Adjustment 2011 as per, and based on ties to Boundary Survey by Cardno as outlined in Note 2 above.
- 4) Elevations as shown hereon are referenced to North American Vertical Datum 1988 (NAVD88) expressed in feet and are based on Hillsborough County Control Station VB-455 (published elevation 42.49 feet).
- 5) Surveyor makes no guarantee as to the exact species, or the health of each tree depicted hereon. If this information is necessary, a certified arborist should be contacted. Sizes (diameter) of trees as shown hereon are expressed in inches.
- 6) No subsurface investigation to locate underground foundations, utilities, and/or other installations was performed as a part of this survey. Surveyor did not contact subsurface utility locator service.
- 7) Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
- 8) Hillsborough County is self-insured in accordance with Florida statutes.

ALUM.	= ALUMINUM	NO. OR #	= NUMBER
ASSOC.	= ASSOCIATE(S)	(NR)	= NON RADIAL
BFP	= BACKFLOW PREVENTER	OHW	= OVERHEAD WIRE
BOT	= BOTTOM	O.R.	= OFFICIAL RECORD BOOK
(C)	= CALCULATED DIMENSION	(P)	= PLAT REFERENCE
C/O	= CLEAN OUT	P.B.	= PLAT BOOK
CONC.	= CONCRETE	PG.	= PAGE
COR.	= CORNER	PLS	= PROFESSIONAL LAND SURVEYOR
D	= DEPTH	P.O.	= POST OFFICE
(D)	= DEED DIMENSION	P.O.B.	= POINT OF BEGINNING
DIA.	= DIAMETER	P.O.C.	= POINT OF COMMENCEMENT
D.I.P.	= DUCTILE IRON PIPE	PRM	= PERMANENT REFERENCE MONUMENT
EL.	= ELEVATION	PVC	= POLYVINYL CHLORIDE
ELEC.	= ELECTRIC	PVC	= POLYVINYL CHLORIDE
(F)	= FIELD MEASURED DIMENSION	REG.	= REGISTERED
FCIP	= FOUND CAPPED IRON PIPE	R/W	= RIGHT-OF-WAY
FCIR	= FOUND CAPPED IRON ROD	SAN.	= SANITARY
FMND	= FOUND MAG NAIL AND DISK	SCIP	= SET CAPPED IRON PIPE
FPKND	= FOUND PARKER KAYLON NAIL AND DISK	SCIR	= SET CAPPED IRON ROD
FFE	= FINISH FLOOR ELEVATION	SMND	= SET MAG NAIL AND DISK
H	= HEIGHT	S/W	= SIDEWALK
HILLS. CO.	= HILLSBOROUGH COUNTY	TBM	= TEMPORARY BENCHMARK
ID.	= IDENTIFICATION	TOB	= TOP OF BANK
INC.	= INCORPORATED	UNK.	= UNKNOWN
INV.	= INVERT	W	= WIDTH
LB	= LICENSED BUSINESS	W/	= WITH
MH	= MANHOLE	WPF	= WOOD PRIVACY FENCE


	OAK TREE (W/ DIAMETER)
	SPRINKLER
	SPOT ELEVATION (HARD SURFACE)
	SPOT ELEVATION (GROUND)

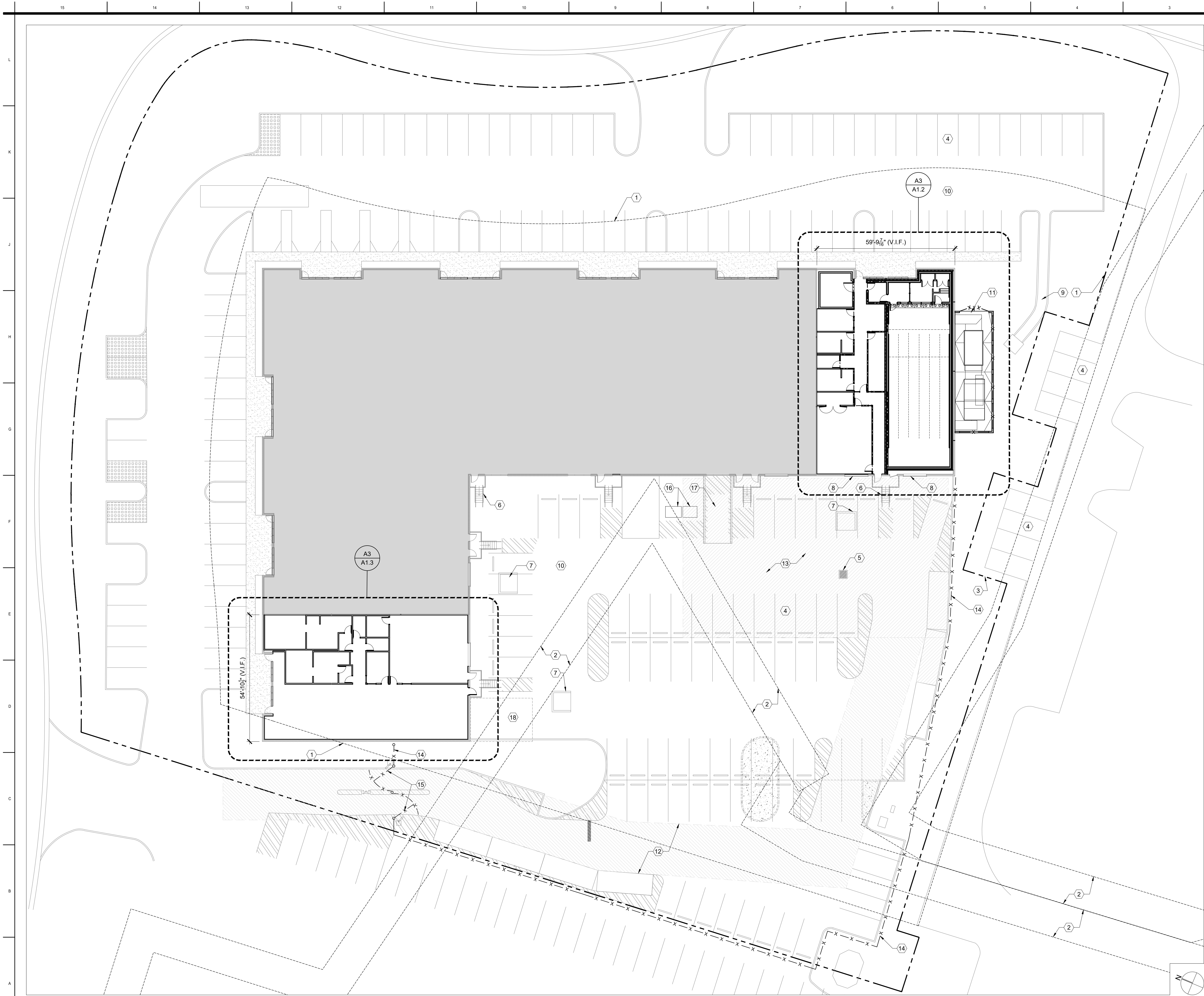
JOHN D. COLLINS
Professional Surveyor & Mapper
Florida Certificate # 5894
SURVEY MAP OR COPIES THEREOF ARE NOT VALID WITHOUT
THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A
FLORIDA LICENSED SURVEYOR AND MAPPER

TBM "A"
EL.=48.91'
SET BOXCUT IN THE SOUTHWEST CORNER OF CONCRETE SIDEWALK

TBM "B"
EL.=44.56'
SET BOXCUT IN NORTHEAST CORNER OF CONCRETE PAD FOR LIGHT POLE.

(IN FEET)
1 inch = 5 ft.

	TOPOGRAPHIC SURVEY	HILLSBOROUGH COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT – GEOMATICS SECTION SURVEY & MAPPING COUNTY CENTER, 23RD FLOOR, 601 EAST KENNEDY BOULEVARD, TAMPA, FL 33602 PHONE: (813) 272-5810 FAX: (813) 272-6459 www.hillaboroughcounty.org						PINEBROOKE BUILDING #2 TOPOGRAPHIC SURVEY		BY DATE FIELD BOOK NO.: 706 GEMATICS PROJ. NO.	CIP/CIT PROJECT NO.
									PREPARED: ARCF 12/06/2016 FIELD BOOK PGS.: 41-45 S17-0124		
									CHECKED: JC 12/06/2016 SCALE: 17 29 S. 20 E.		
REV.		REVISION DESCRIPTION	DATE	BY	APVD				APPROVED:	1" □ 5' SHEET TOWNSHIP RANGE OF 1	



GENERAL NOTES

1. SETBACK AND EASEMENT INFORMATION PROVIDED BY OWNER VIA SURVEY.
2. EXIST SITE CONSTRUCTION TO REMAIN UNO.
3. EXIST BLDG FOOTPRINT TO REMAIN. NO NEW INTERIOR SPACE IS PROPOSED.
4. EXIST ROOF CONSTRUCTION / MEMBRANE TO REMAIN.

SPECIFIC NOTES

1. SETBACK BOUNDARY
2. EASEMENT BOUNDARY
3. PROPERTY LIMITS
4. EXIST PARKING TO REMAIN, TYP.
5. EXIST STORM WATER INLET STRUCTURE TO REMAIN, TYP.
6. EXIST CONC STAIR (EGRESS FROM BLDG) TYP.
7. EXIST CMU DUMPSTER ENCLOSURE TO REMAIN, TYP.
8. EXIST OH DOOR TO REMAIN, TYP.
9. EXIST CONC FLUME TO REMAIN, TYP.
10. EXIST ASPHALT DRIVE AISLE.
11. EXTERIOR HVAC ENCLOSURE (NEW CONSTRUCTION - RAISED CONC SLAB AND CMU WALL). PROVIDE SPLIT-FACED CMU AND SELF-ADHERING SHEET WATERPROOFING ON THE INTERIOR FACE OF THE CMU. VINYL COATED CLF W/ VINYL PRIVACY SLATS.
12. CONTRACTOR ACCESS ROUTE (HATCHED AREA)
13. CONTRACTOR STAGING AREA (HATCHED AREA)
14. TEMPORARY FENCING
15. CONSTRUCTION GATES/ ACCESS
16. EXIST TX TO REMAIN
17. EXIST RAMP TO EXIST OH DOOR TO REMAIN
18. EXIST EXT COVERED STORAGE AREA TO REMAIN.

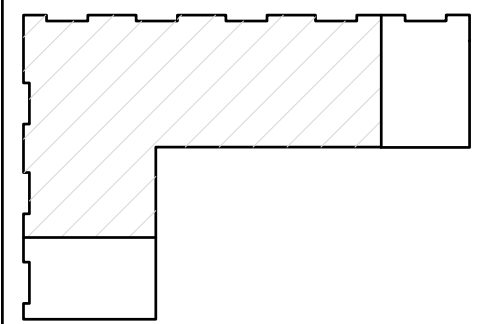
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SITE PLAN

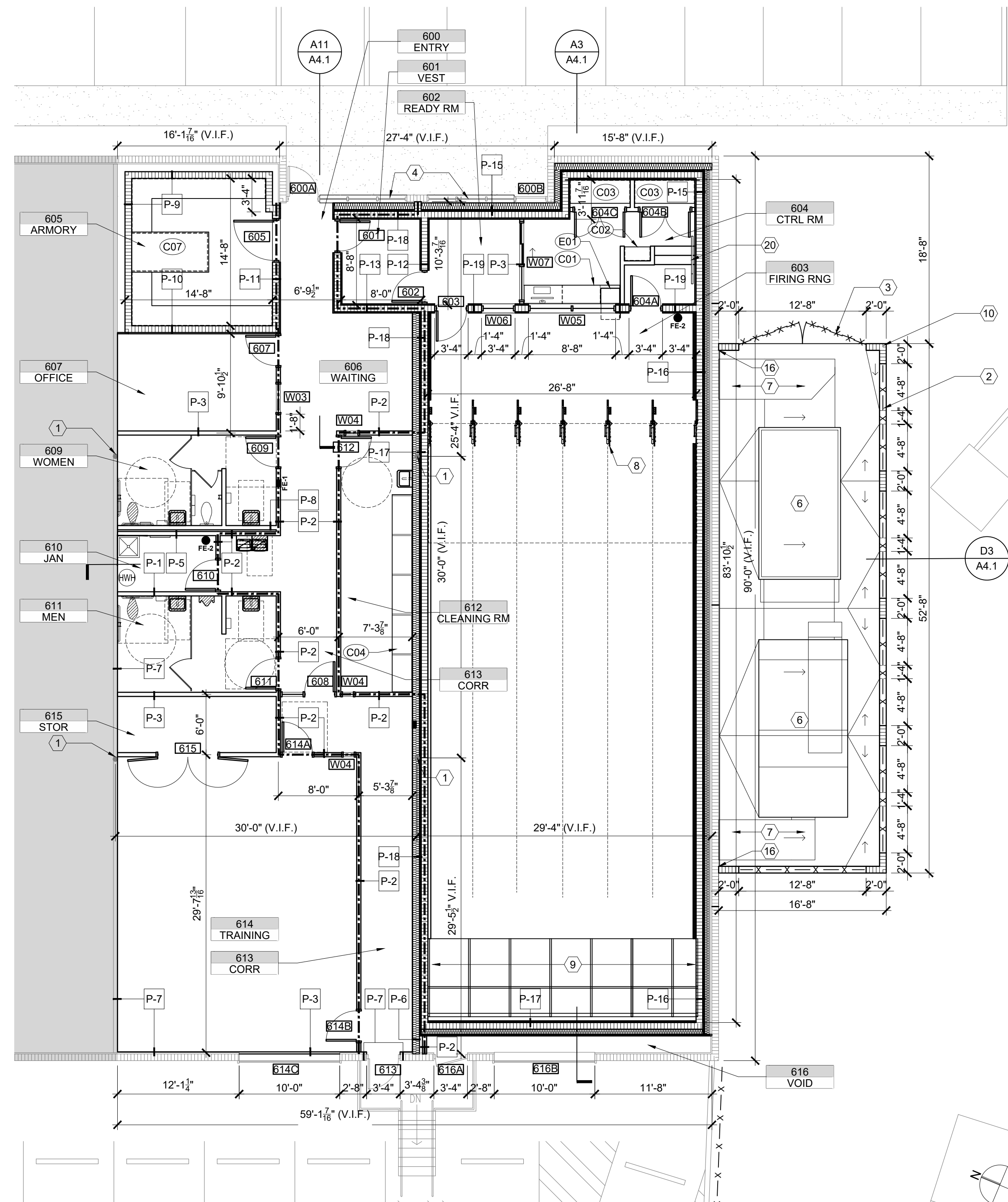
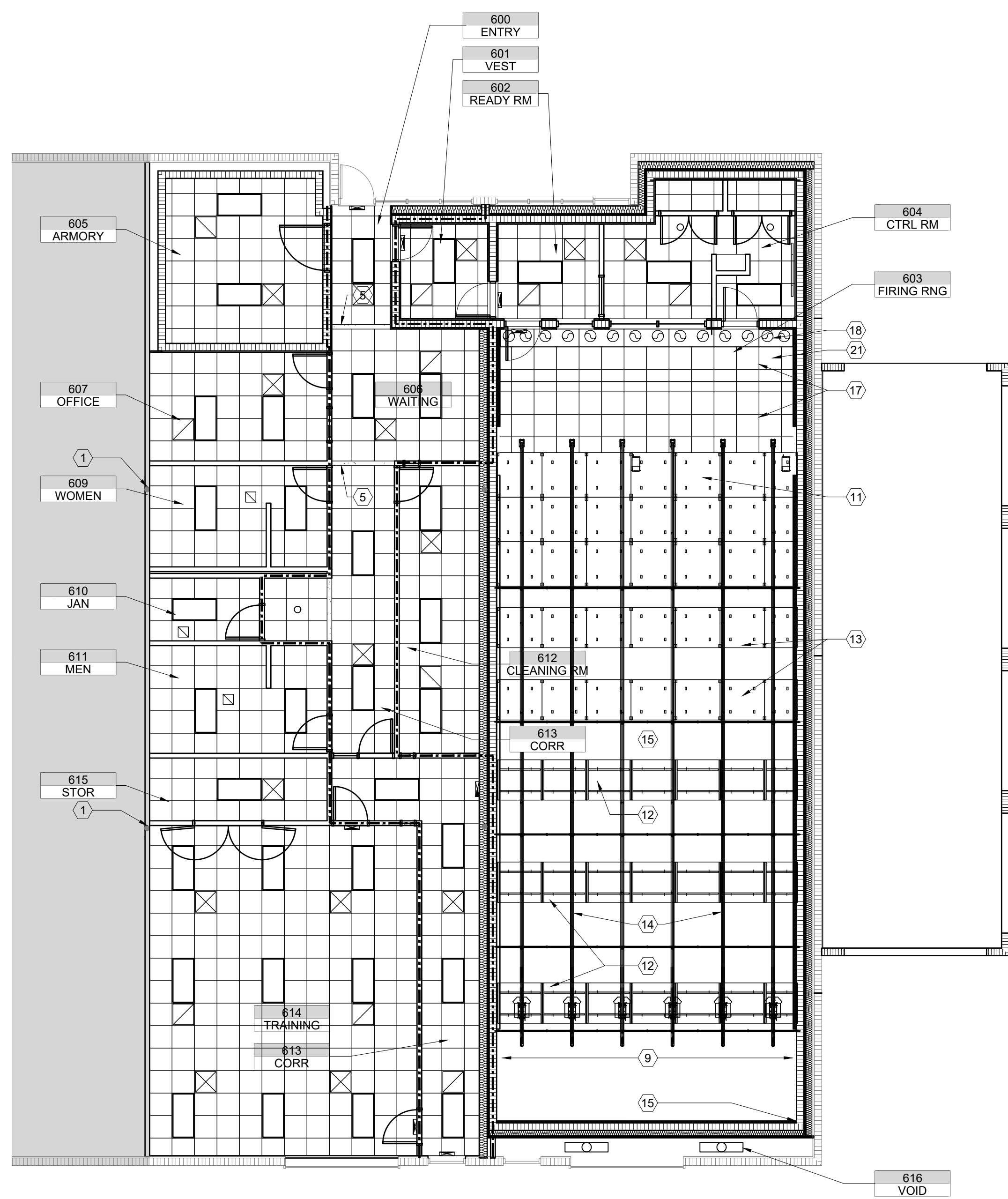
A1.1

EQUIPMENT SCHEDULE						
NUMBER	DESCRIPTION	CONTRACT STATUS				REMARKS
		CP	OP	CI	OI	
C01	COUNTERTOP	•		•		SEE DETAIL A1/A8.1
C02	FIXED SHELVEING	•		•		SEE DETAIL E12/A8.1
C03	FIXED SHELVEING	•		•		SEE DETAIL E13/A8.1
C04	WORKSTATIONS (SS COUNUTER TOP)	•		•		SEE DETAIL J1/A8.1
C05	LAVATORY COUNTERTOP	•		•		SEE DETAIL E7/A8.1
C06	LAVATORY COUNTERTOP	•		•		SEE DETAIL A1/A8.1
C07	FIXED SHELVEING W/ 4'X8' WORKTABLE					SEE DETAIL A5/A8.1
E01	SECURITY DRAWER	•		•		SEE SPECIFICATIONS
E02	METAL LOCKERS, 2-TIER	•		•		PROVIDE 4" CONCRETE BASE


GENERAL NOTES

1. CONTRACTOR TO PROVIDE COORDINATION BETWEEN THE EXIST RANGE (BY MEGGITT) EQUIPMENT AND NEW CONSTRUCTION REQUIREMENTS. MEGGITT WILL INSTALL ALL PRE PURCHASED RANGE EQUIPMENT.
2. PARTITIONS ARE P-1 THROUGH P-10.
3. CONTRACTOR SHALL CLEAN EXISTING STOREFRONT, REPLACE WEATHERSTRIPPING, SEALANT, DOOR HARDWARE AND EXIT DEVICES, TYPICAL.
4. CONTRACTOR TO PROVIDE NEW HARDWARE AT EXISTING OR HOLLOW METAL DOORS, INCLUDING WEATHERSTRIPPING, AND THRESHOLDS. DOORS AND FRAMES SHALL BE PREPARED AND PAINTED AND SEALANT REPLACED.

EQUIPMENT SCHEDULE	J3
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SPECIFIC NOTES



1. EXIST STL COL (TO REMAIN), TYP.
2. 4'-6" VINYL COATED CLF
3. 6"H VINYL COATED CL GATE
4. EXIST STOREFRONT GLAZING SYSTEM, PROVIDE BLACK-OUT FILM ON THE INSIDE FACE OF WINDOWS AND CLERESTORY ABOVE PRIOR TO CONSTRUCTION OF PARTITION.
5. GWB BULKHEAD @ 108'-0", TYP.
6. HVAC EQUIP FOR RANGE VENTILATION (BY MEGGITT)
7. DUCTWORK TO RANGE (BY MEGGITT) PROVIDE WALL PENETRATION AND SEALING FOR NEW DUCTWORK (BY GC)
8. SHOOTING STALL (BY MEGGITT)
9. BULLET TRAP (BY MEGGITT)
10. NEW SPLIT-FASE CMU BASE AND ENCLOSURE
11. SAFETY CEILING (BY MEGGITT)
12. REDIRECTIVE GUARD (BY MEGGITT)
13. CONTAINMENT BAFFLE (BY MEGGITT)
14. TARGET TRACK SYSTEM (BY MEGGITT)
15. FULL ACOUSTICAL ABSORPTION CEILING PROVIDED FULL AREA OF RANGE (RM 003) INCLUDE SUSPENDED 2'x2 COMMERCIAL GRID (BY GC), 20"X40" TROY BOLT ABOVE CLG PANELS (BY MEGGITT)
16. 8" TROY WOOD ABOVE CLG PANELS (BY MEGGITT)
17. HOLD MASONRY OFF EXIST WALL BY 2"
18. APC GRID AND CLG PANELS BY G.C.
19. HVAC
20. SUPPLY REGISTER (BY MEGGITT)
21. HANDRAIL, 1.5' OD - STL (PNT BLACK)
22. ANGLE CLG TO SUPPLY REGISTER HOUSING

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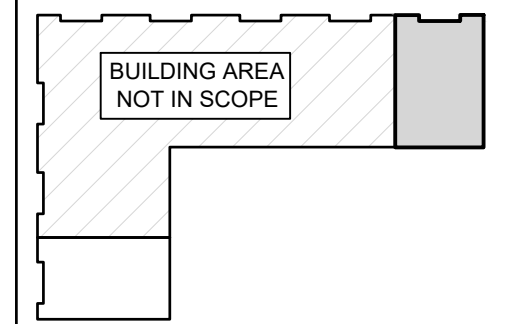
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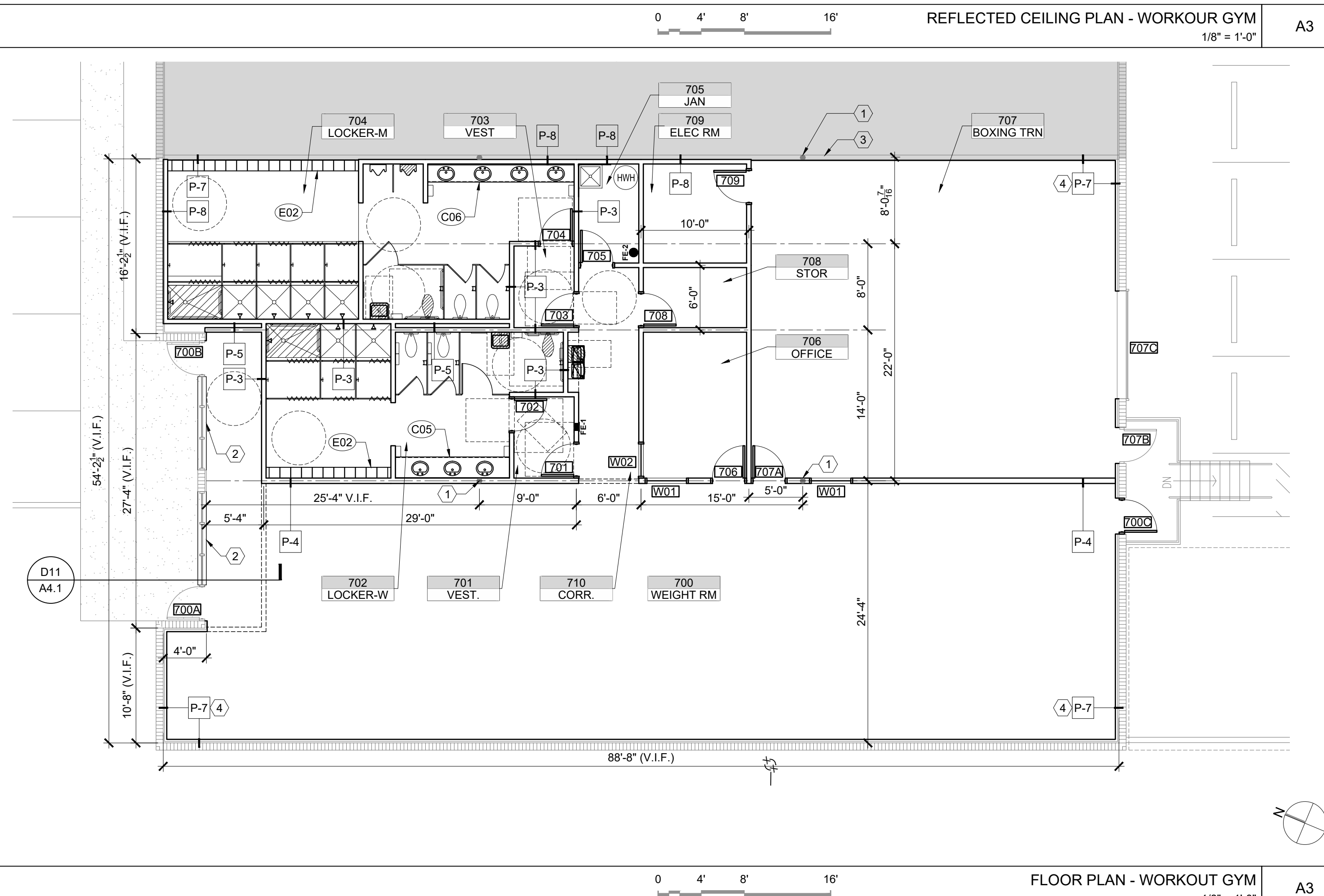
FLOOR PLAN
FIRING RANGE

A1.2

EQUIPMENT SCHEDULE						
NUMBER	DESCRIPTION	CONTRACT STATUS				REMARKS
		CP	OP	CI	OI	
C01	COUNTERTOP	•	•	•		SEE DETAIL A1/A8.1
C02	FIXED SHELVING			•		SEE DETAIL E12/A8.1
C03	FIXED SHELVING			•		SEE DETAIL E13/A8.1
C04	WORKSTATIONS (SS COUNTER TOP)	•	•	•		SEE DETAIL J1/A8.1
C05	LAVATORY COUNTERTOP	•	•	•		SEE DETAIL E7/A8.1
C06	LAVATORY COUNTERTOP	•	•	•		SEE DETAIL E1/A8.1
C07	FIXED SHELVING W/ 4'X8' WORKTABLE					SEE DETAIL A5/A8.1
E01	SECURITY DRAWER	•		•		SEE SPECIFICATIONS
E02	METAL LOCKERS, 2-TIER	•		•		PROVIDE 4" CONCRETE BASE

EQUIPMENT SCHEDULE

J3



GENERAL NOTES

1. CONTRACTOR TO PROTECT ALL EXIST FINISHES DURING CONSTRUCTION.
2. CONTRACTOR SHALL CLEAN EXISTING STOREFRONT, REPLACE WEATHERSTRIPPING, SEALANT, DOOR HARDWARE AND EXIT DEVICES, TYPICAL.
3. CONTRACTOR TO PROVIDE NEW HARDWARE AT EXTERIOR HOLLOW METAL DOORS, INCLUDING WEATHERSTRIPPING, AND THRESHOLDS. DOORS AND FRAMES SHALL BE PREPARED AND PAINTED AND SEALANT REPLACED.
4. COORDINATE DEMOLITION OF EXIST CONDITIONS WITH SCOPE SHOWN.

SPECIFIC FLOOR PLAN NOTES

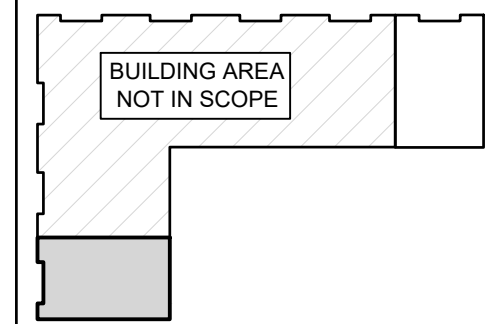
1. EXIST STL COL. TYP.
2. EXIST VERTICAL BLINDS TO BE REPLACED.
3. EXIST DEMISING WALL
4. ADJUST DEPTH OF FURRING TO MATCH EXIST PLANE w/ FULL CLG PANEL ABOVE.
5. BULKHEAD ELEV - 11'-8" AFF
6. BULKHEAD ELEV - 8'-8" AFF

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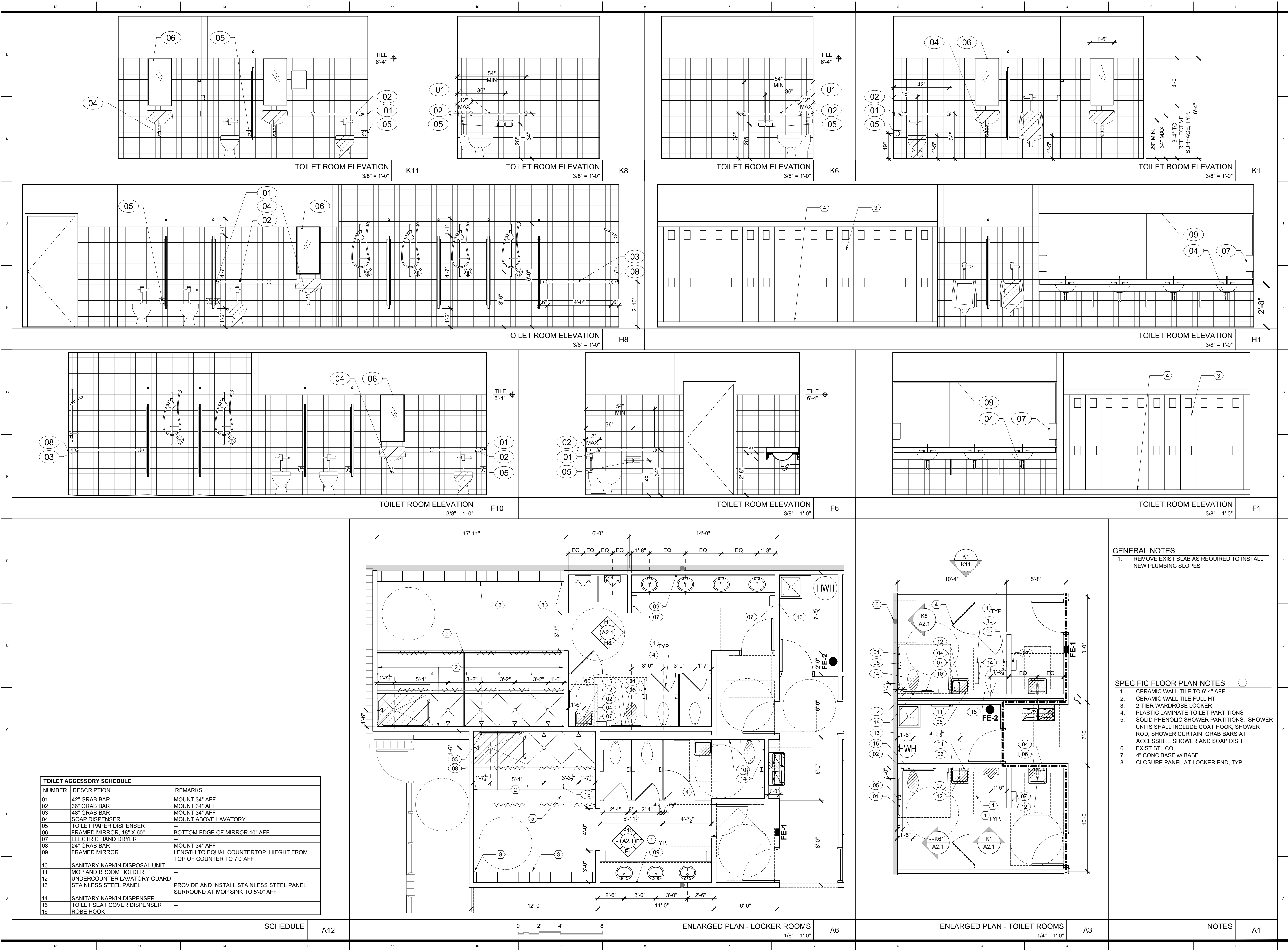
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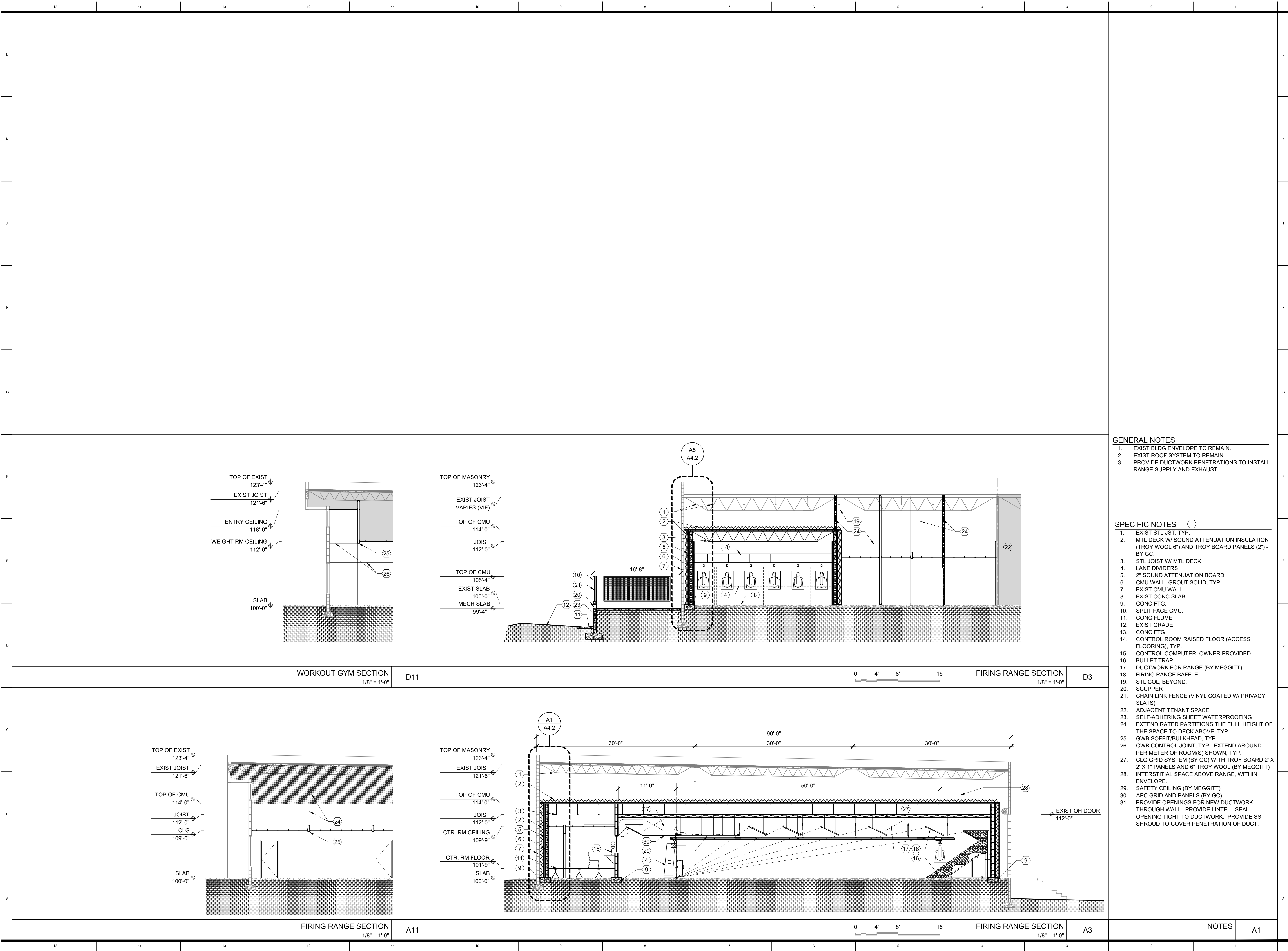
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FLOOR PLAN
WORKOUT GYM

A1.3





- GENERAL NOTES**
1. EXIST BLDG ENVELOPE TO REMAIN.
 2. EXIST ROOF SYSTEM TO REMAIN.
 3. PROVIDE DUCTWORK PENETRATIONS TO INSTALL RANGE SUPPLY AND EXHAUST.

- SPECIFIC NOTES**
1. EXIST STL JST, TYP.
 2. MTL DECK W/ SOUND ATTENUATION INSULATION (TROY WOOL 6") AND TROY BOARD PANELS (2") - BY GC.
 3. STL JOIST W/ MTL DECK
 4. LANE DIVIDERS
 5. 2" SOUND ATTENUATION BOARD
 6. CMU WALL, GROUT SOLID, TYP.
 7. EXIST CMU WALL
 8. EXIST CONC SLAB
 9. CONC FTG.
 10. SPLIT FACE CMU.
 11. CONC FLUME
 12. EXIST GRADE
 13. CONC FTG
 14. CONTROL ROOM RAISED FLOOR (ACCESS FLOORING), TYP.
 15. CONTROL COMPUTER, OWNER PROVIDED
 16. BULLET TRAP
 17. DUCTWORK FOR RANGE (BY MEGGITT)
 18. FIRING RANGE BAFFLE
 19. STL COL. BEYOND.
 20. SCUPPER
 21. CHAIN LINK FENCE (VINYL COATED W/ PRIVACY SLATS)
 22. ADJACENT TENANT SPACE
 23. SELF-ADHERING SHEET WATERPROOFING
 24. EXTEND RATED PARTITIONS THE FULL HEIGHT OF THE SPACE TO DECK ABOVE, TYP.
 25. GWB SOFFIT/BULKHEAD, TYP.
 26. GWB CONTROL JOINT, TYP. EXTEND AROUND PERIMETER OF ROOM(S) SHOWN, TYP.
 27. CLG GRID SYSTEM (BY GC) WITH TROY BOARD 2' X 2' X 1" PANELS AND 6" TROY WOOL (BY MEGGITT)
 28. INTERSTITIAL SPACE ABOVE RANGE, WITHIN ENVELOPE.
 29. SAFETY CEILING (BY MEGGITT)
 30. APC GRID AND PANELS (BY GC)
 31. PROVIDE OPENINGS FOR NEW DUCTWORK THROUGH WALL. PROVIDE LINTEL. SEAL OPENING TIGHT TO DUCTWORK. PROVIDE SS SHROUD TO COVER PENETRATION OF DUCT.

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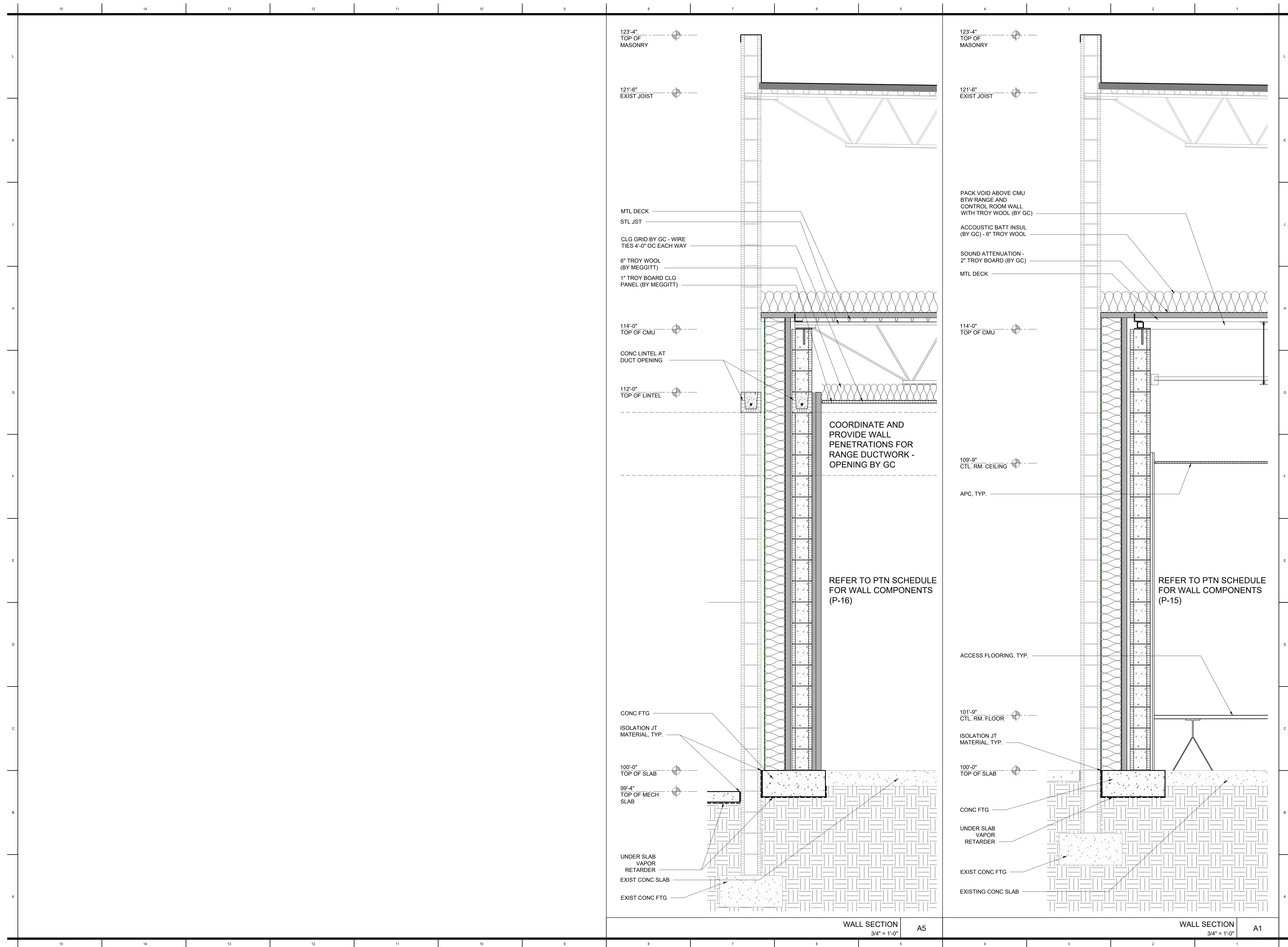
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BUILDING SECTION

A4.1



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WALL SECTIONS

A4.2

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FACSIMILE 813.242.6683

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FIRING RANGE AND WORKOUT GYM
PINEBROOKE BUSINESS PARK

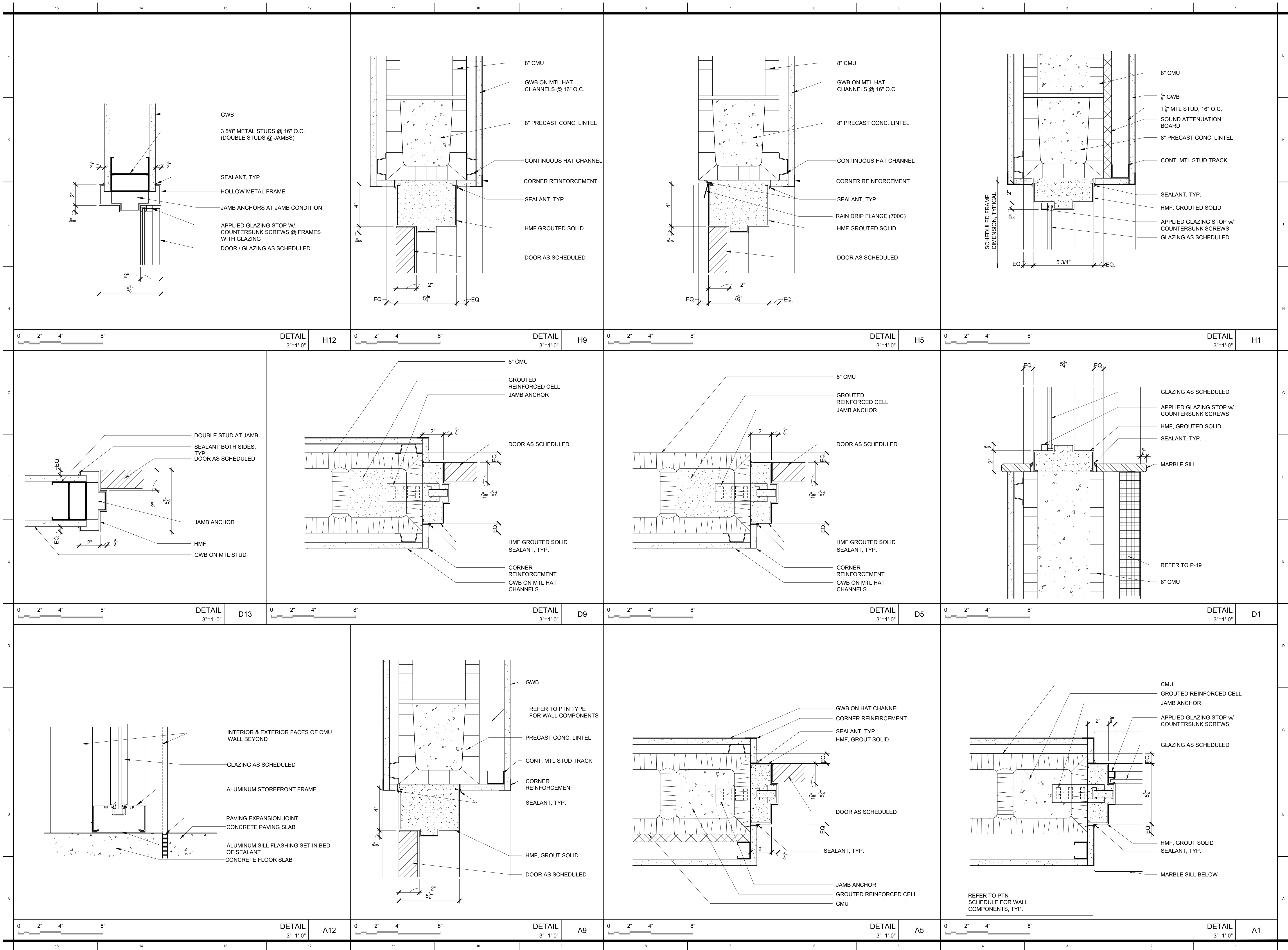
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PARTITION TYPES

A4.3



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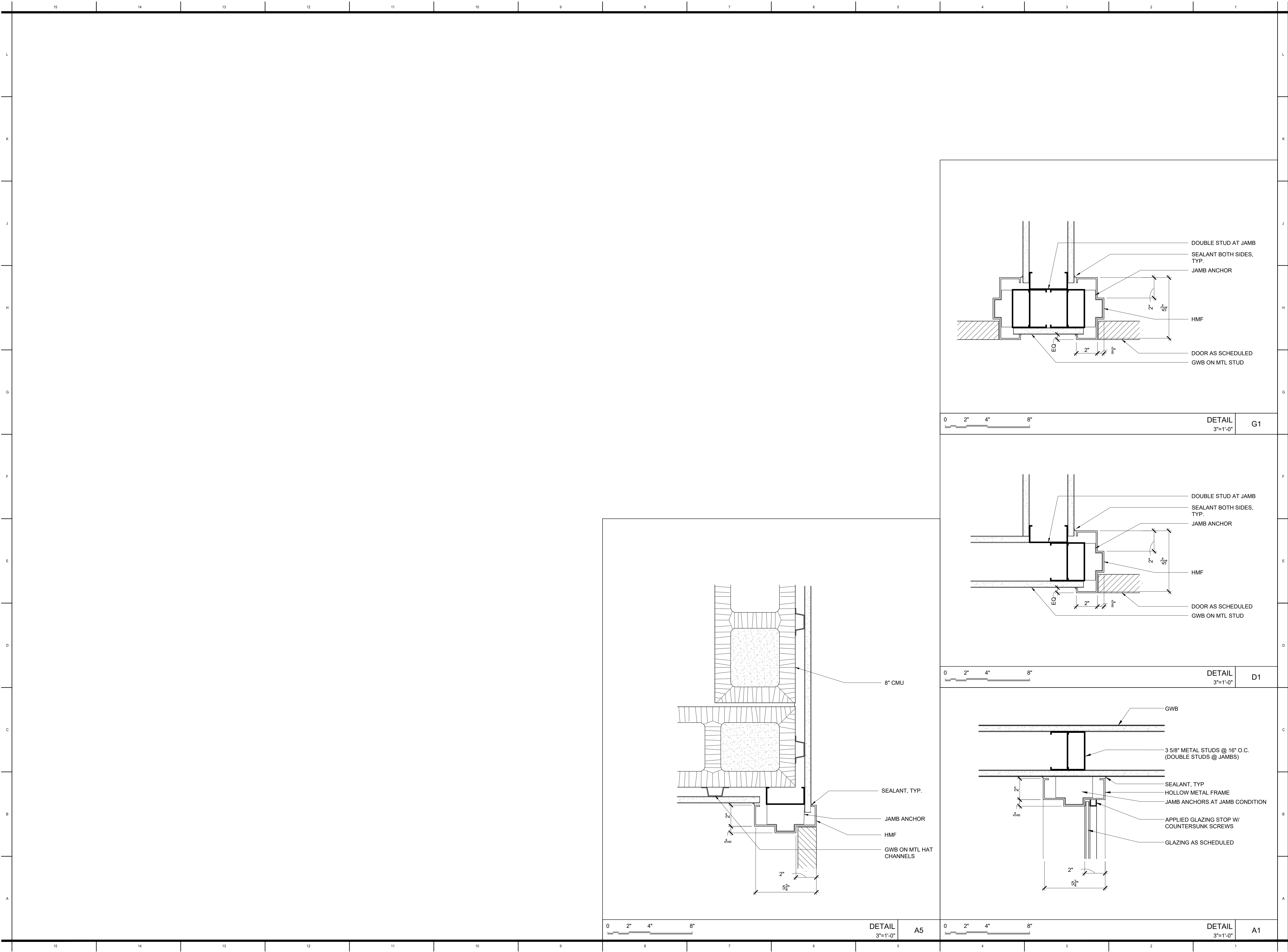
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DETAILS

A5.1



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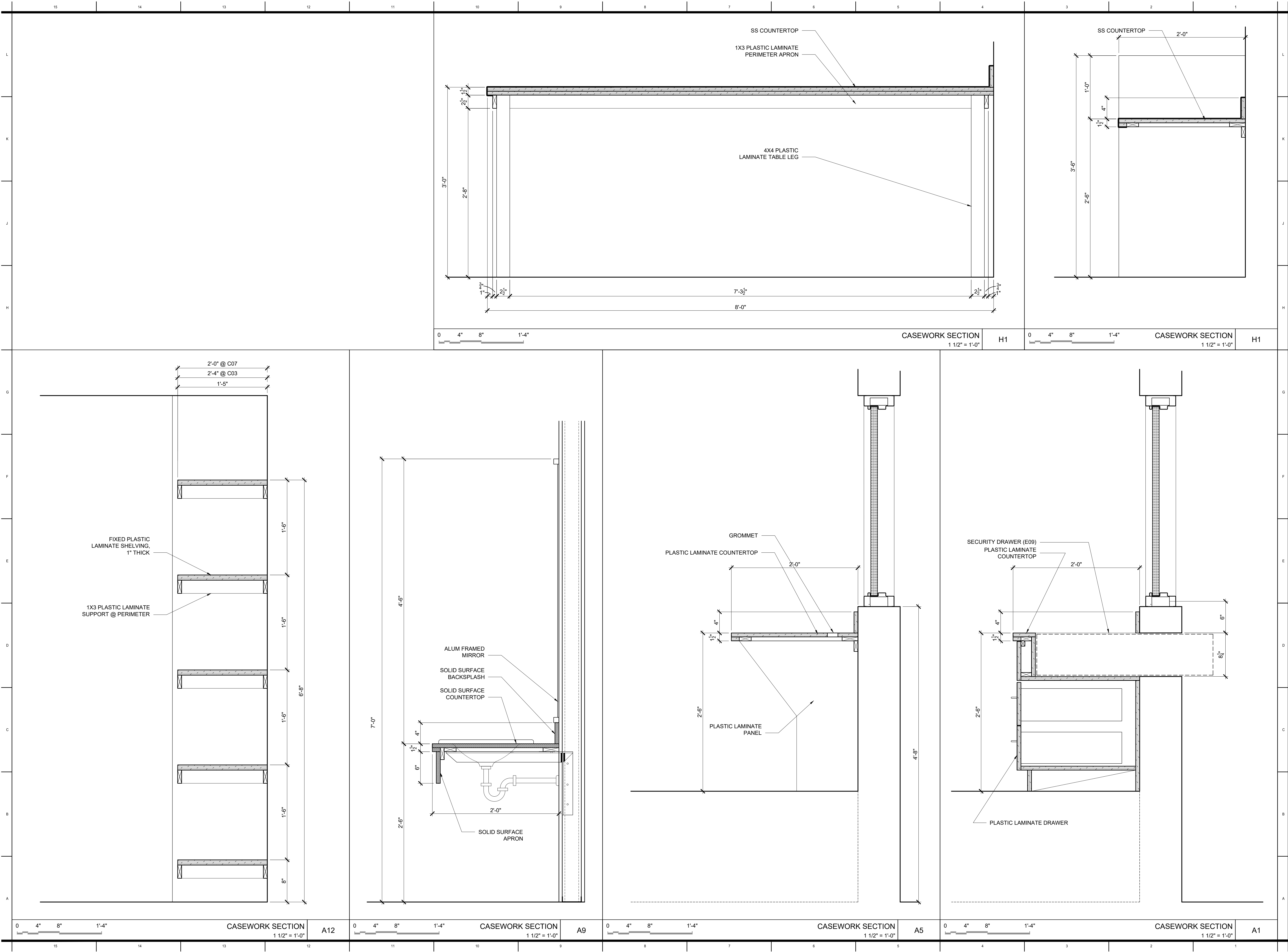
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DETAILS

A5.2

A7.1



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CASEWORK SECTIONS
A8.2

[illegible]

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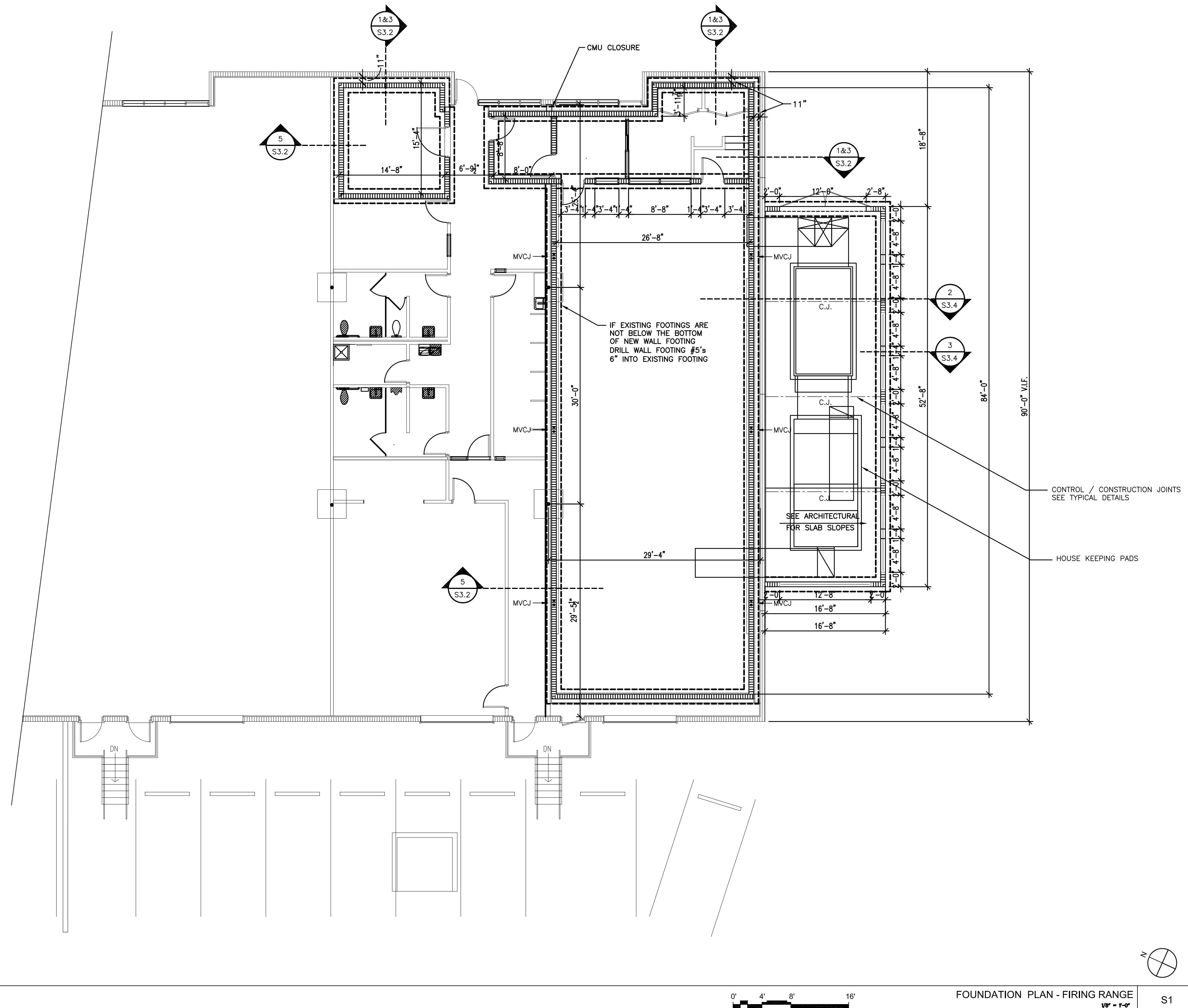
ERIFF'S OFFICE
UT GYM
RK

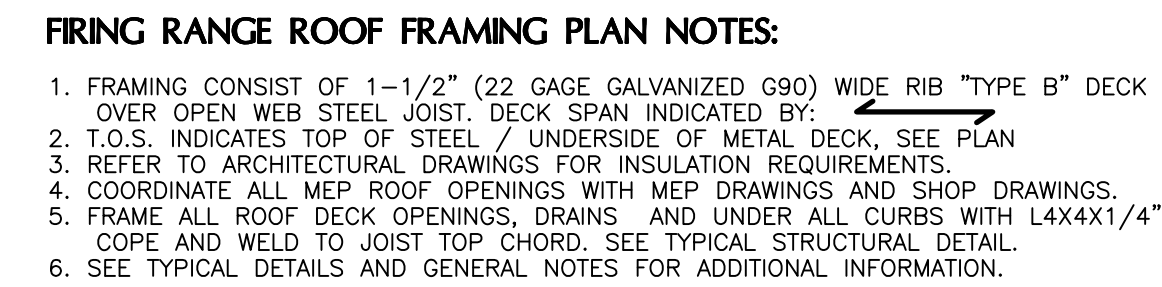
PROJECT #: 1626-00 / MSE 17-002	
DISTRIBUTION	DATE
PERMIT SET	1/16/17

GENERAL NOTES
FIRING RANGE

S1.1

S2.1

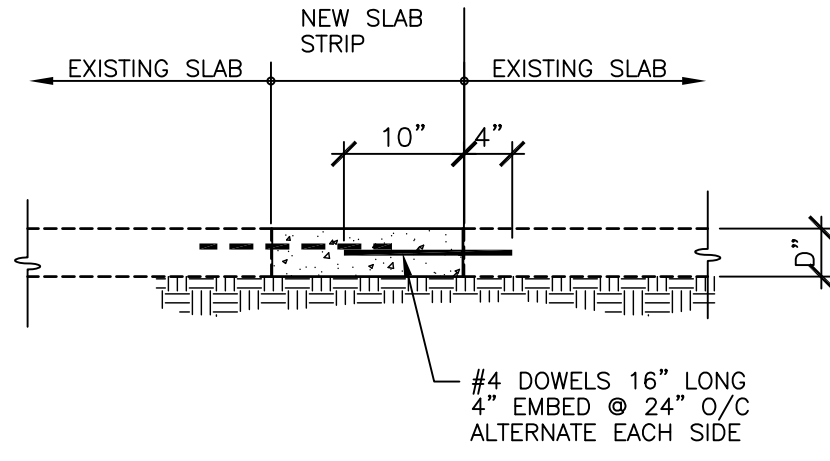




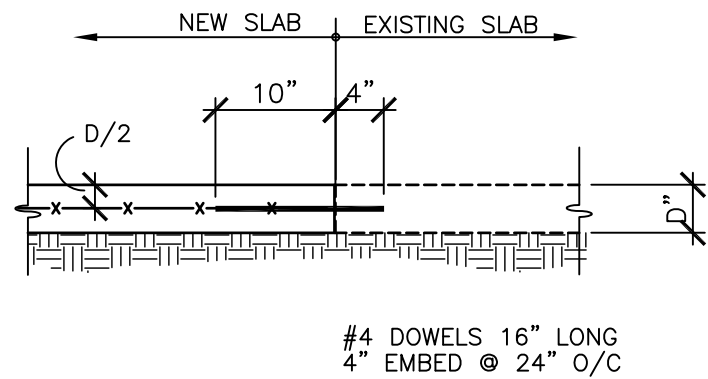
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PINEBROOKE BUSINESS PARK

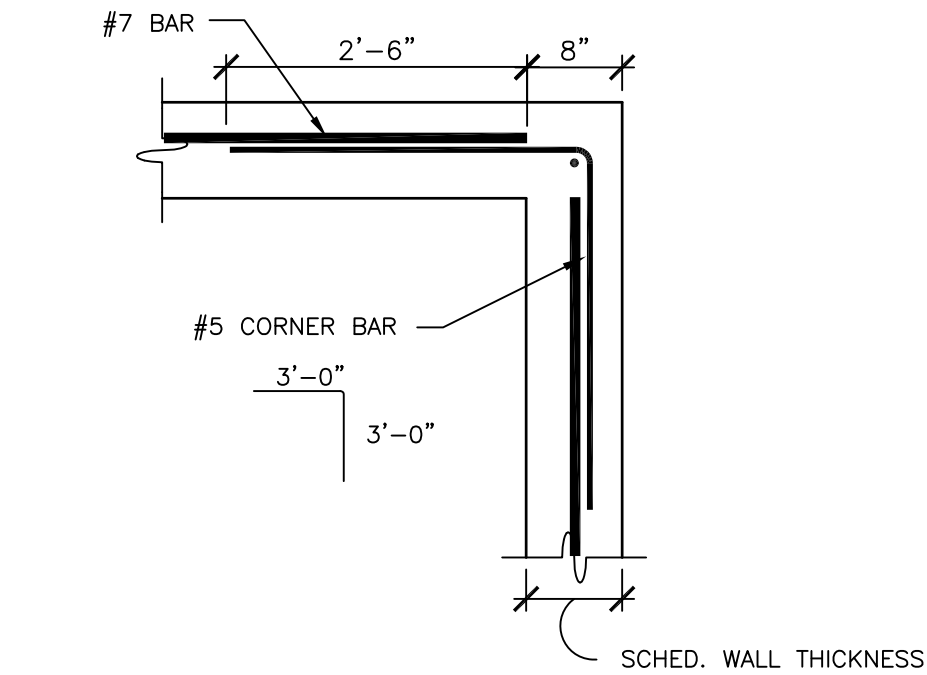
S2.2



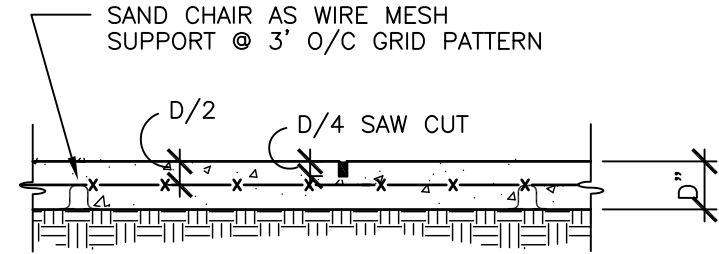
8 TYPICAL NEW SLAB INFILL @ NEW PLUMBING
3/4" = 1'-0"



7 TYPICAL JOINT/ NEW SLAB TO EXISTING SLAB
3/4" = 1'-0"

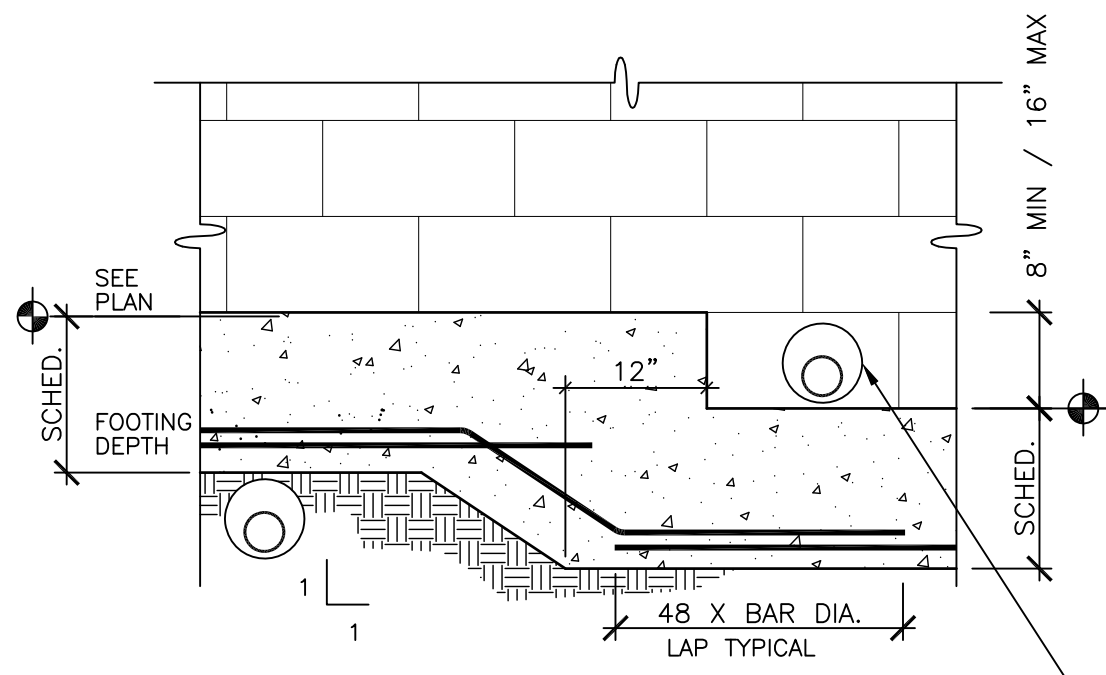


6 MASONRY BOND BEAM @ INTERSECTION
3/4" = 1'-0"



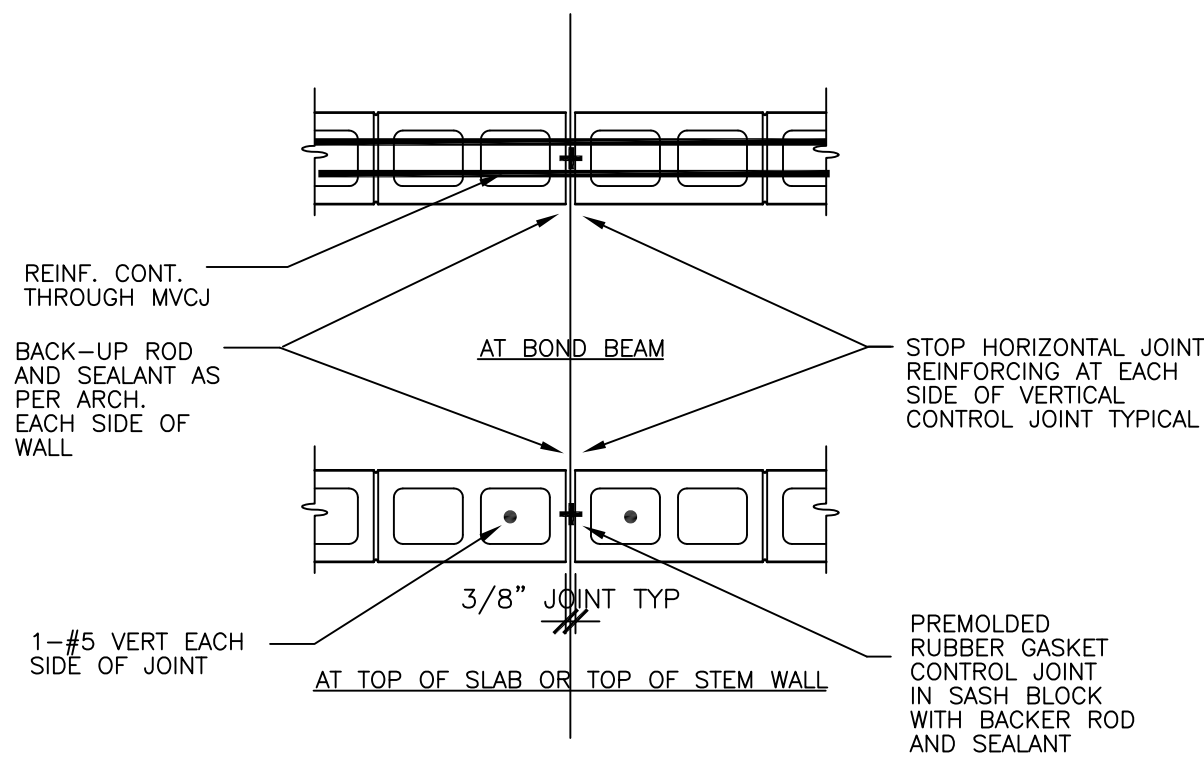
1. SAW CUT CONTRACTION JOINTS WITHIN 4HRS AFTER FINISHING IS COMPLETE.
2. IF NOT SHOWN ON PLAN, MAXIMUM JOINT SPACING IS 12H.
3. FILL JOINTS WITH ELASTOMERIC SEALANT (ASTM C1193)
4. "D" INDICATES SLAB THICKNESS SEE PLAN NOTES FOR SLAB INFORMATION.

5 TYPICAL CONTRACTION JOINT "CJ" DETAIL
3/4" = 1'-0"

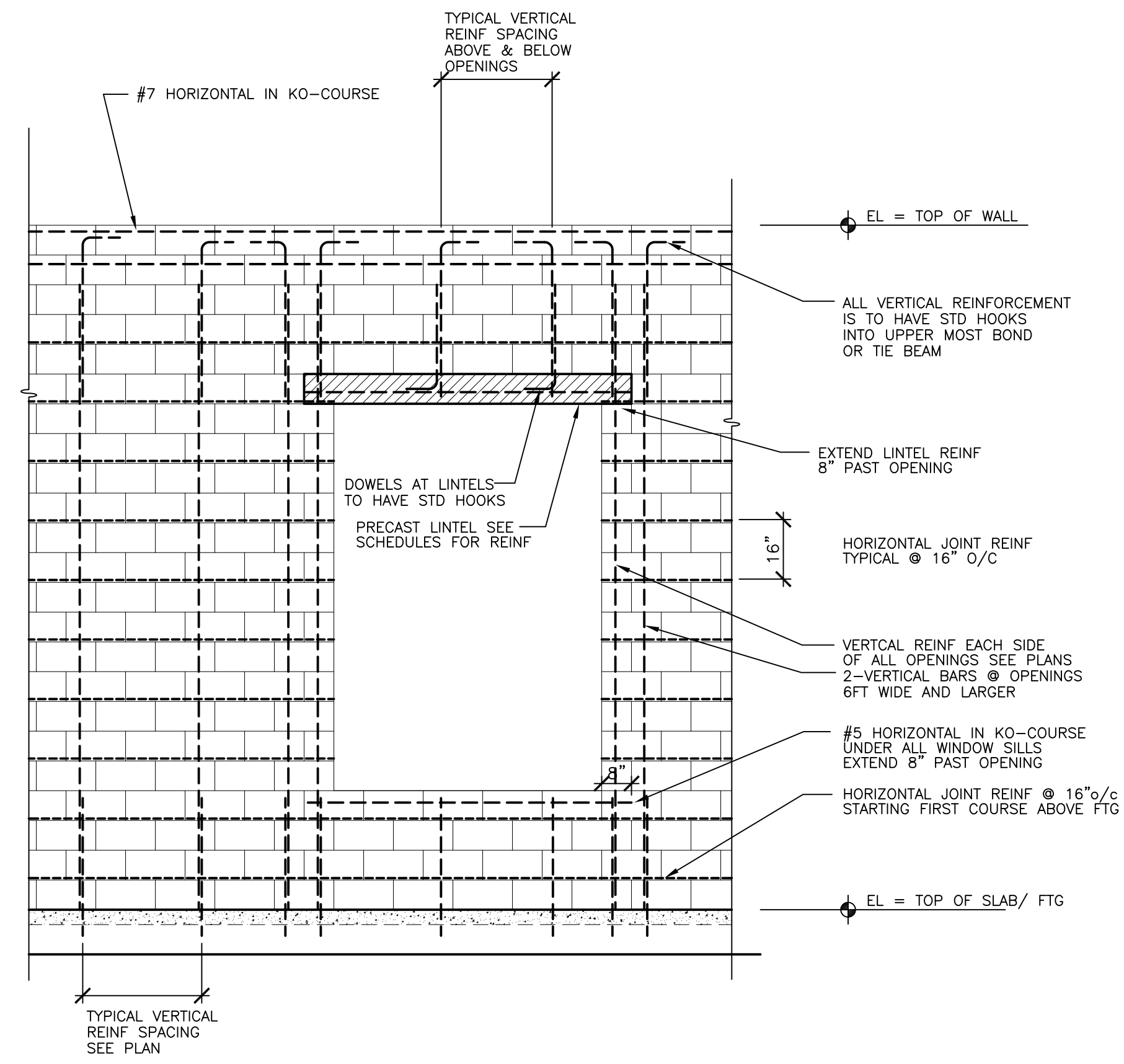


NOTE:
STEP FOOTING AS REQUIRED BY SITE SLOPES TO MAINTAIN TOP OF FOOTING TO BE 8" BELOW FINAL GRADE. ALSO, STEP FOOTING WHERE UTILITIES INTERFERE WITH FOOTING ELEVATION.

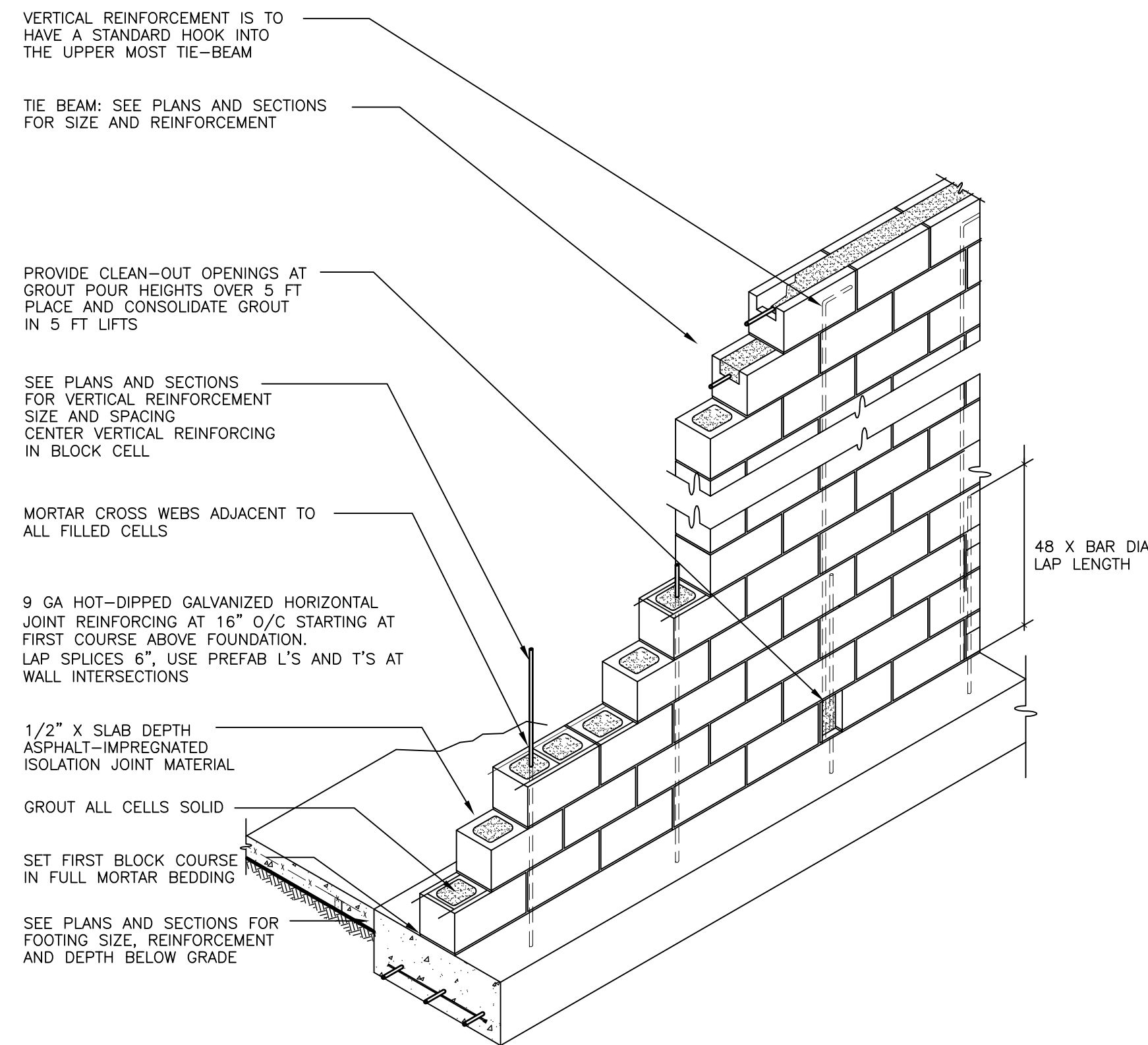
4 STEPPED FOOTING & SLEEVE DETAIL
3/4" = 1'-0"



3 MASONRY VERTICAL CONTROL JOINT "MVCJ"
3/4" = 1'-0"



2 NEW WALL REINFORCEMENT PLACEMENT DETAIL
3/8" = 1'-0"



1 NEW MASONRY WALL SECTION
1/2" = 1'-0"

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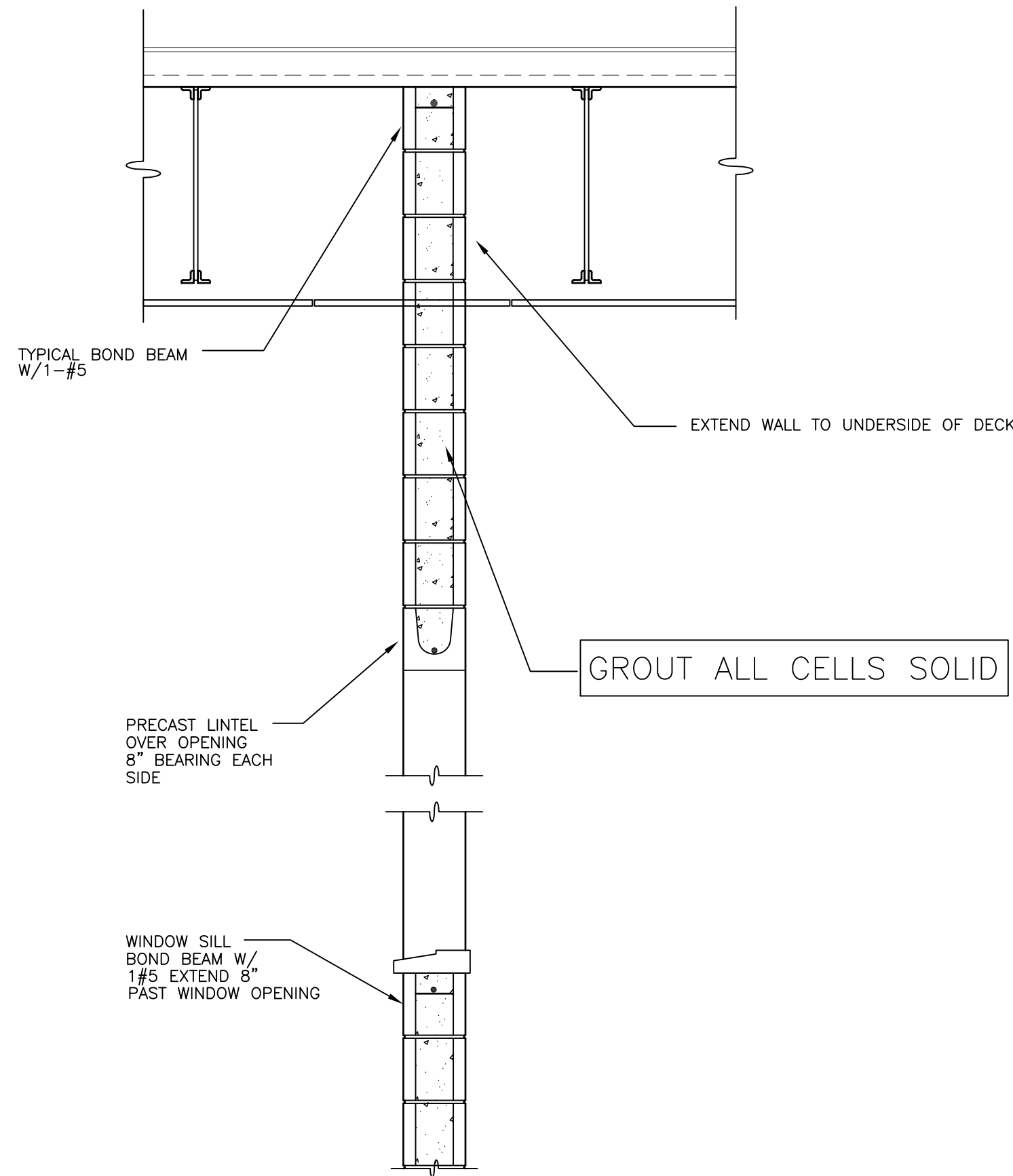
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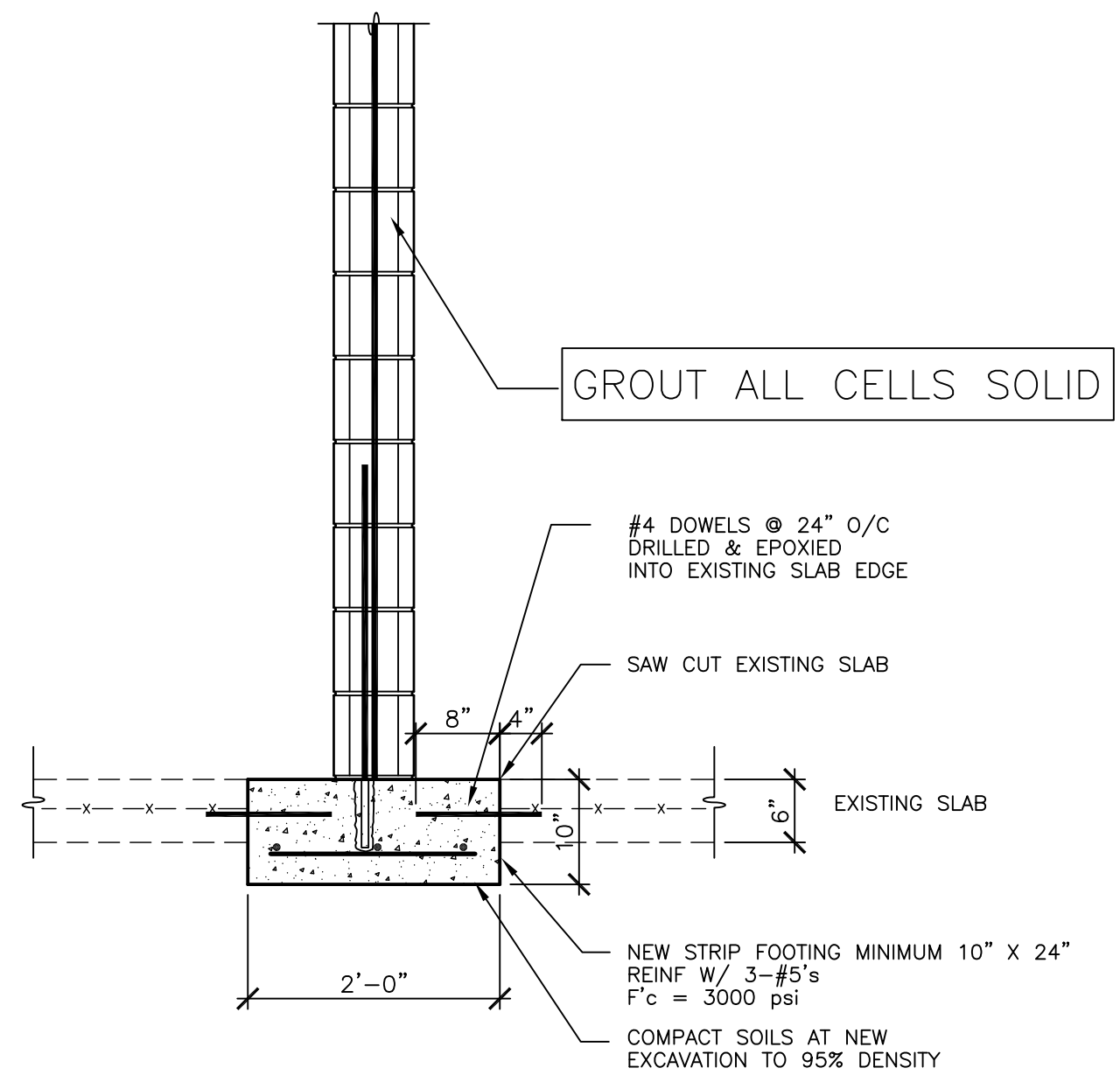
PROJECT #: 1626-00 / MSE 17-002
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SECTIONS & DETAILS
FIRING RANGE

S3.1

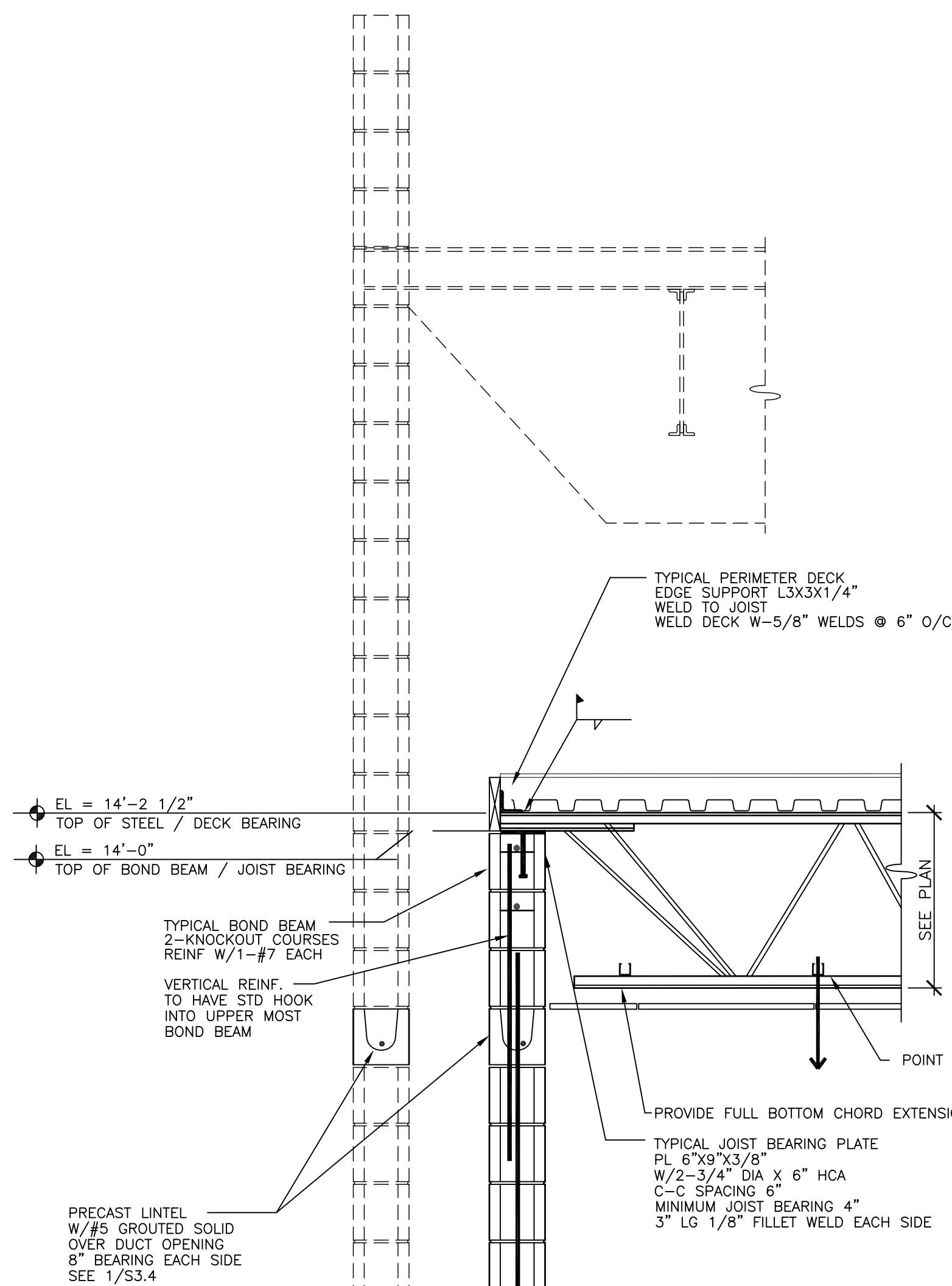


6 SECTION
3/4" - 1'-0"

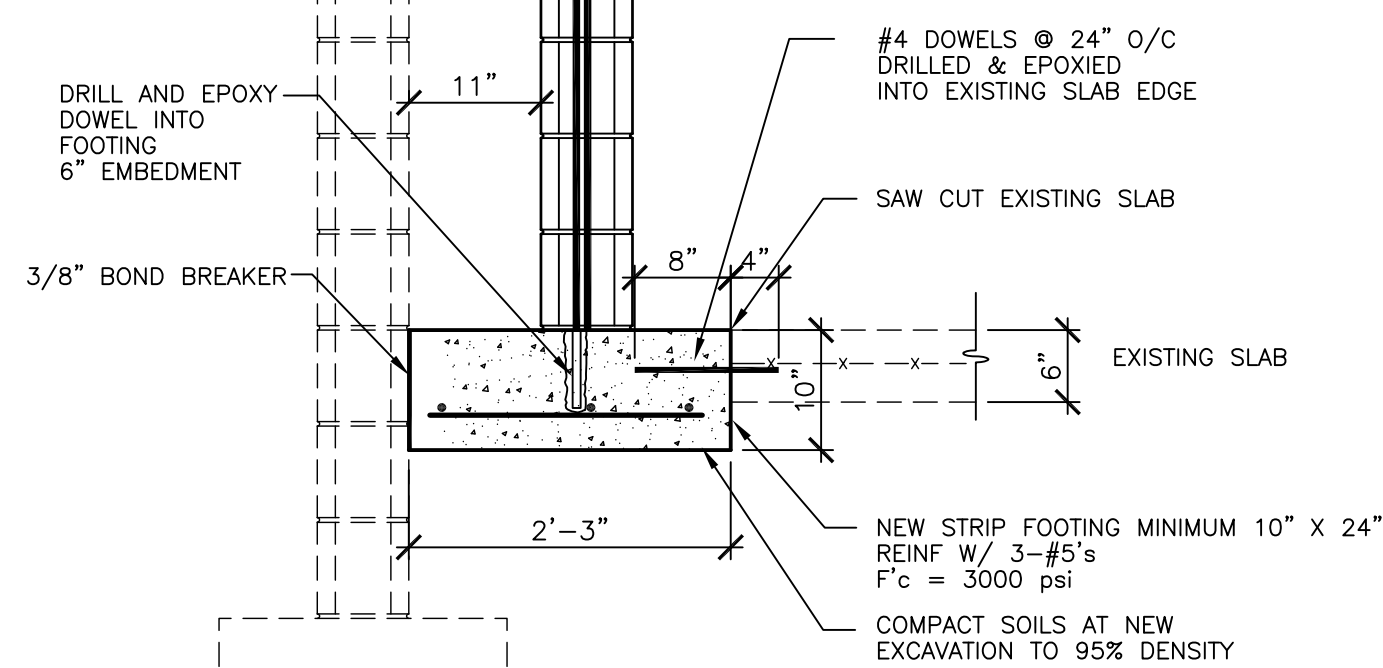


NOTE: SEE 1/S3.2 FOR EMBEDDED DOWEL ALTERNATE

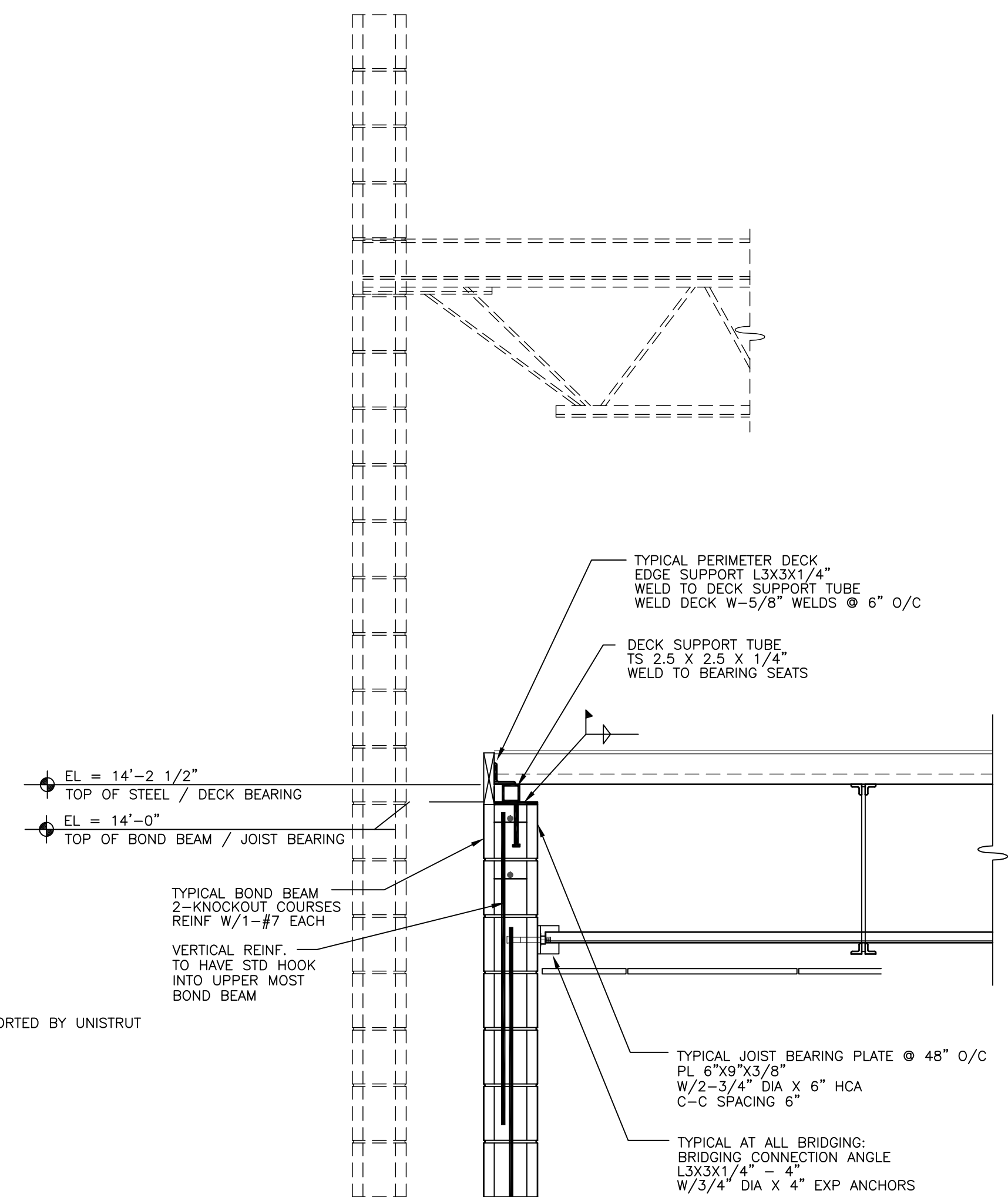
5 SECTION
3/4" - 1'-0"



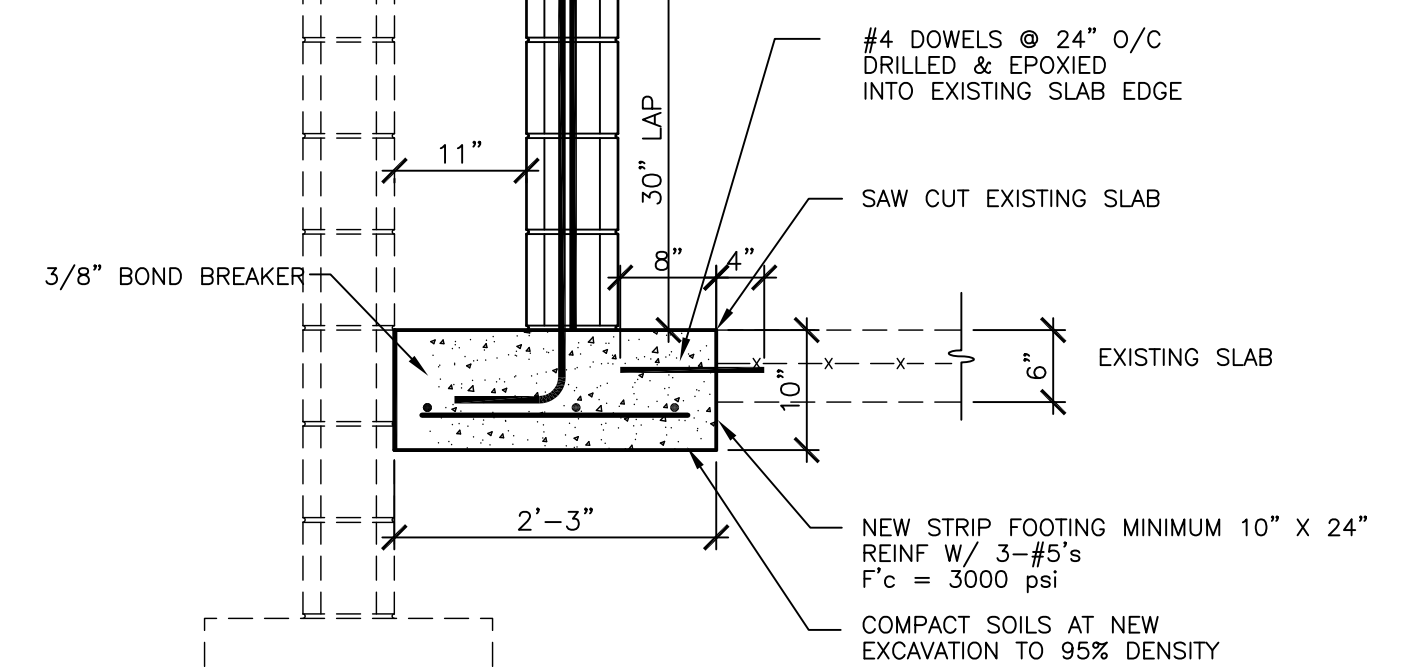
4 SECTION
3/4" - 1'-0"



3 ALTERNATE DRILL AND EPOXY SECTION
3/4" - 1'-0"



2 SECTION
3/4" - 1'-0"



1 SECTION
3/4" - 1'-0"

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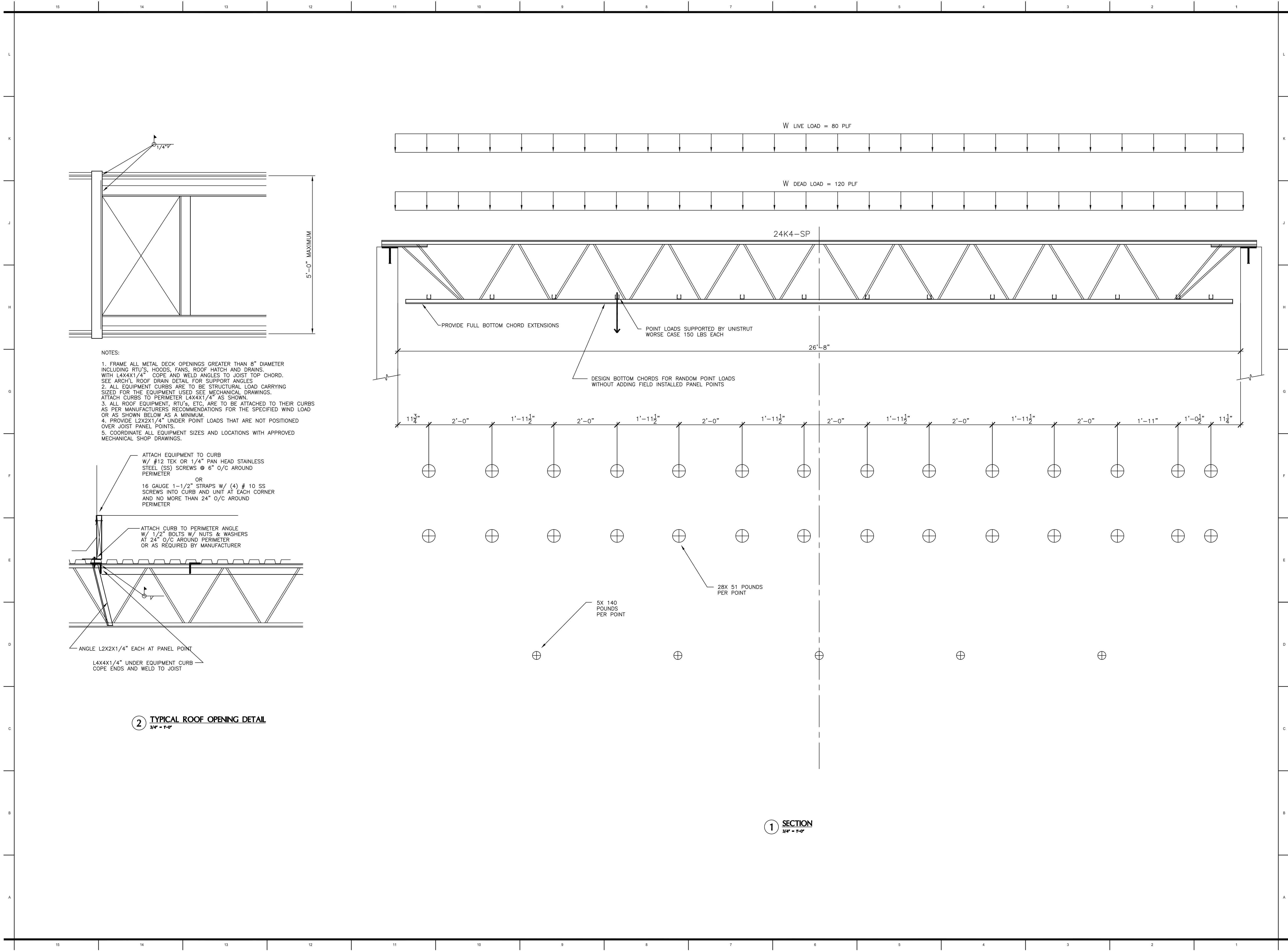
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**SECTIONS & DETAILS
FIRING RANGE**

S3.2

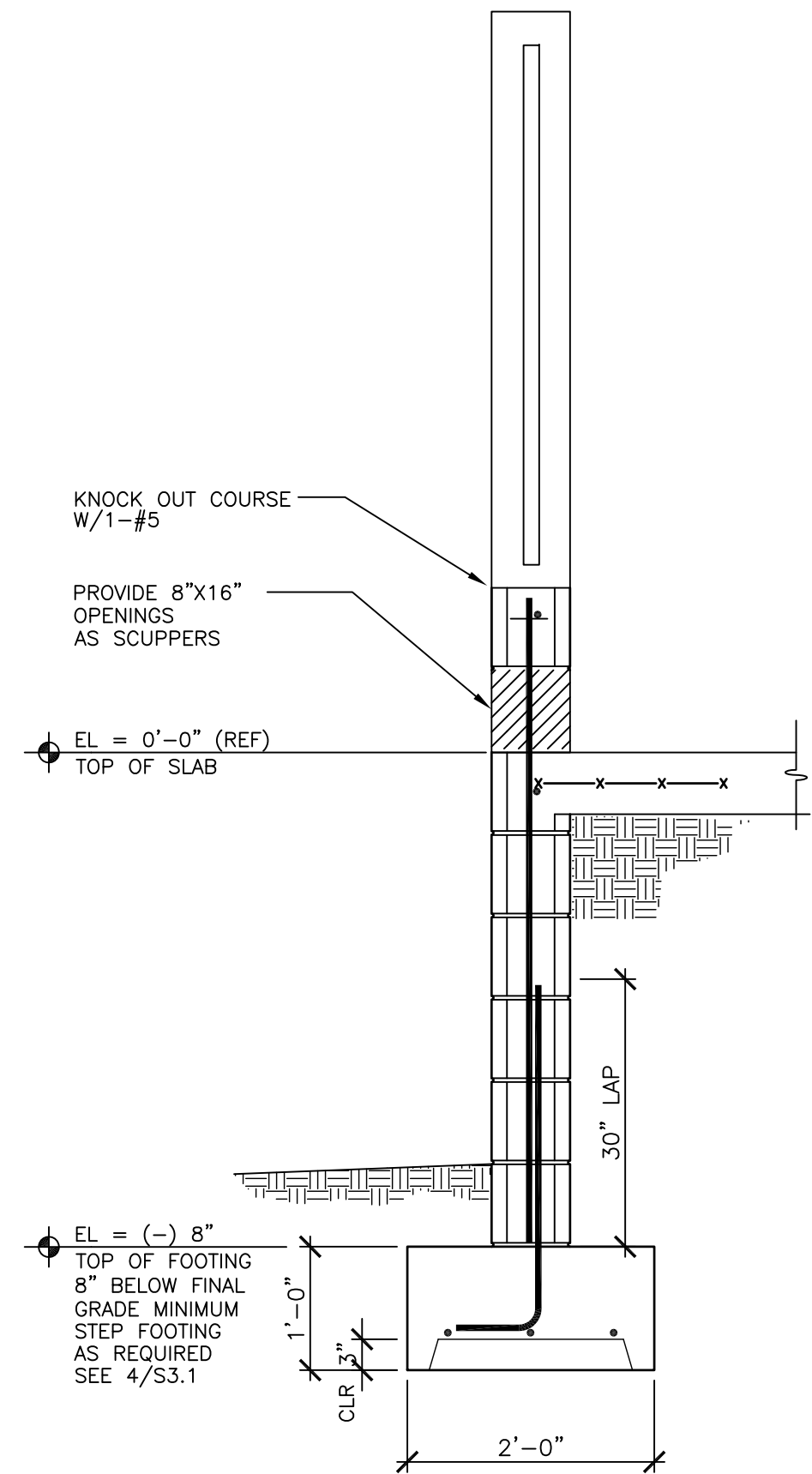
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DISTRIBUTION	DATE	
PERMIT SET	1/16/17	

SECTIONS & DETAILS
FIRING RANGE

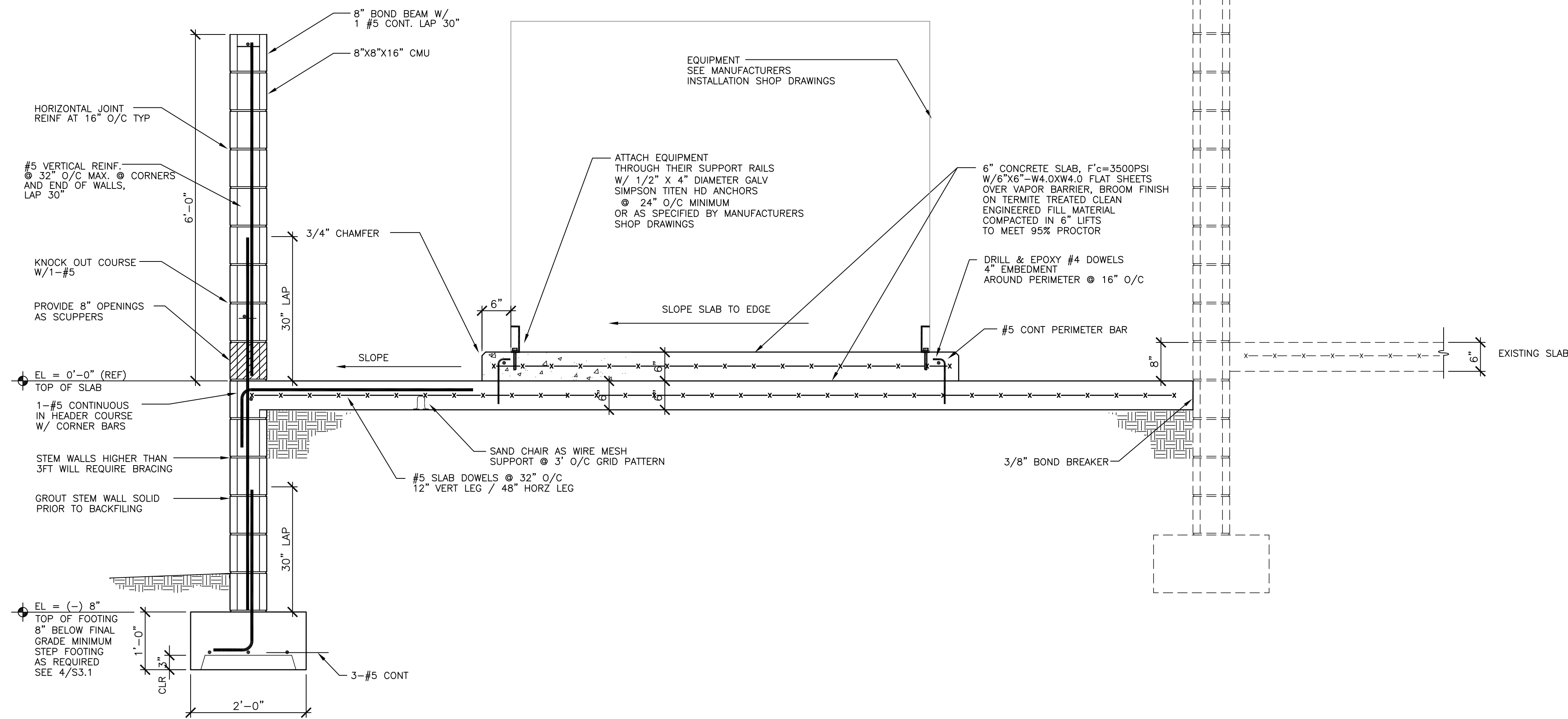


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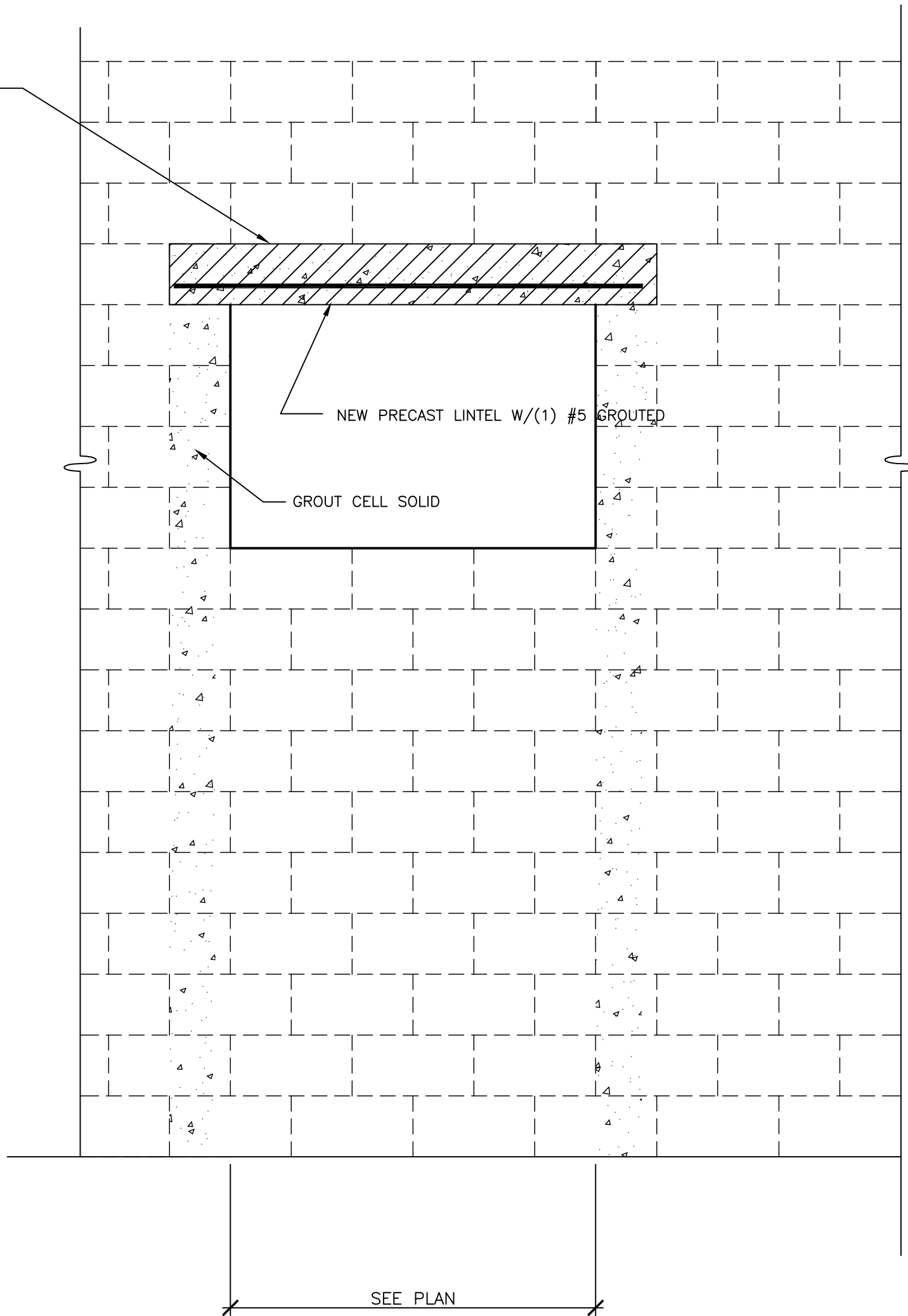


3 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

PRECAST LINTEL
OVER DUCT OPENING
8" BEARING EACH SIDE
WITH
#5 GROUTED SOLID



1 NEW OPENING DETAIL
3/4" = 1'-0"

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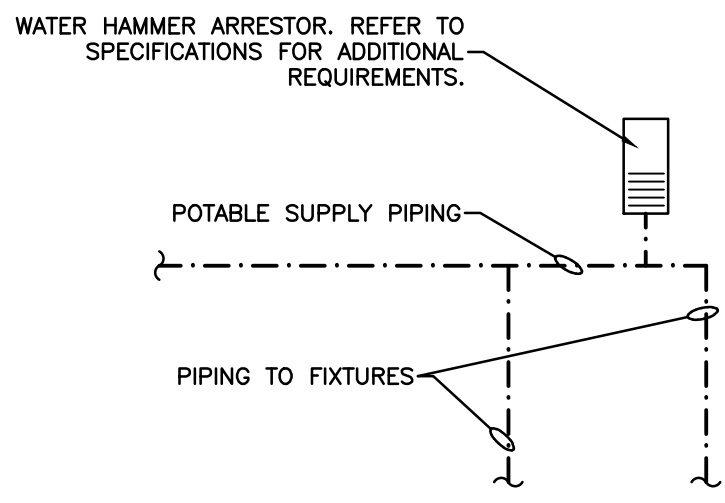
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FIRING RANGE AND WORKOUT GYM
PINEBROOK BUSINESS PARK

PROJECT #: 1626-00	/ MSE 17-002
DISTRIBUTION	DATE
PERMIT SET	1/16/17

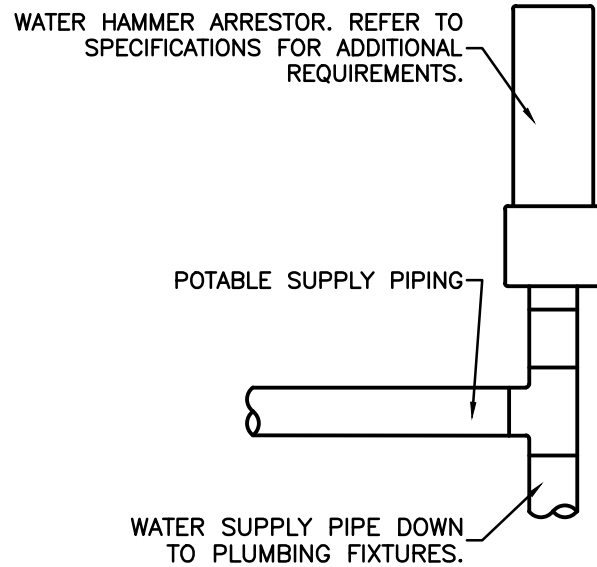
SECTIONS & DETAILS
FIRING RANGE

S3.4

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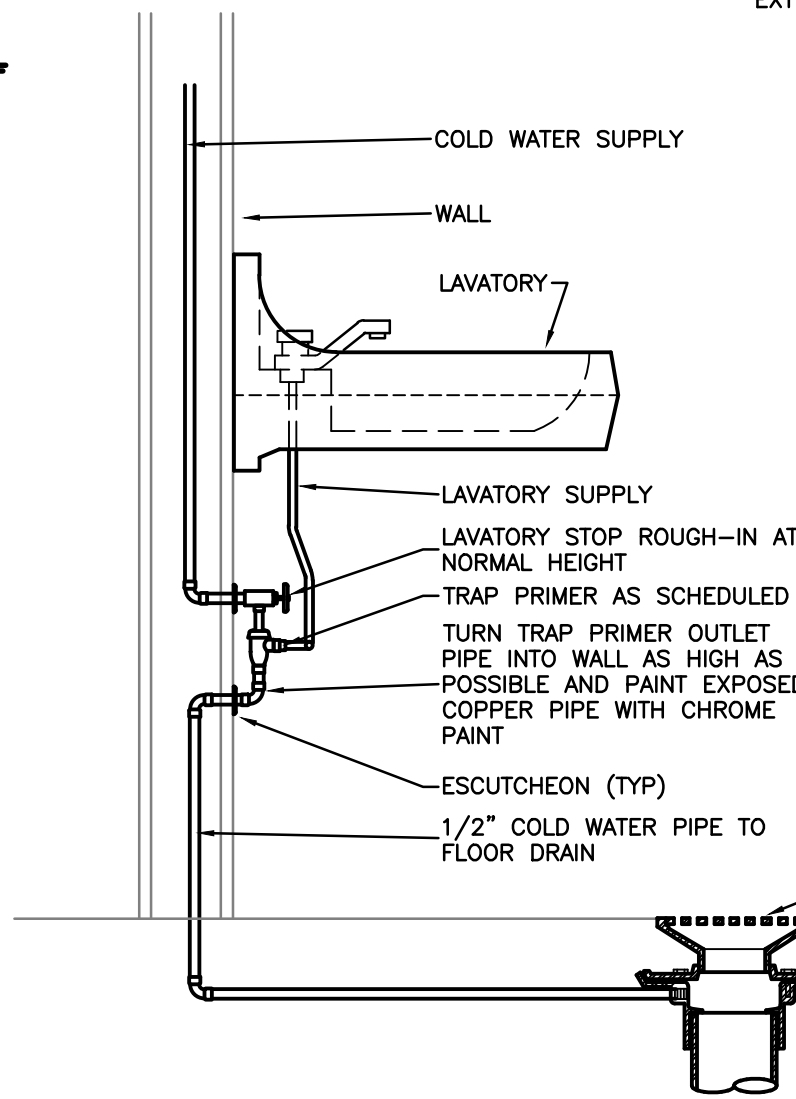
WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE



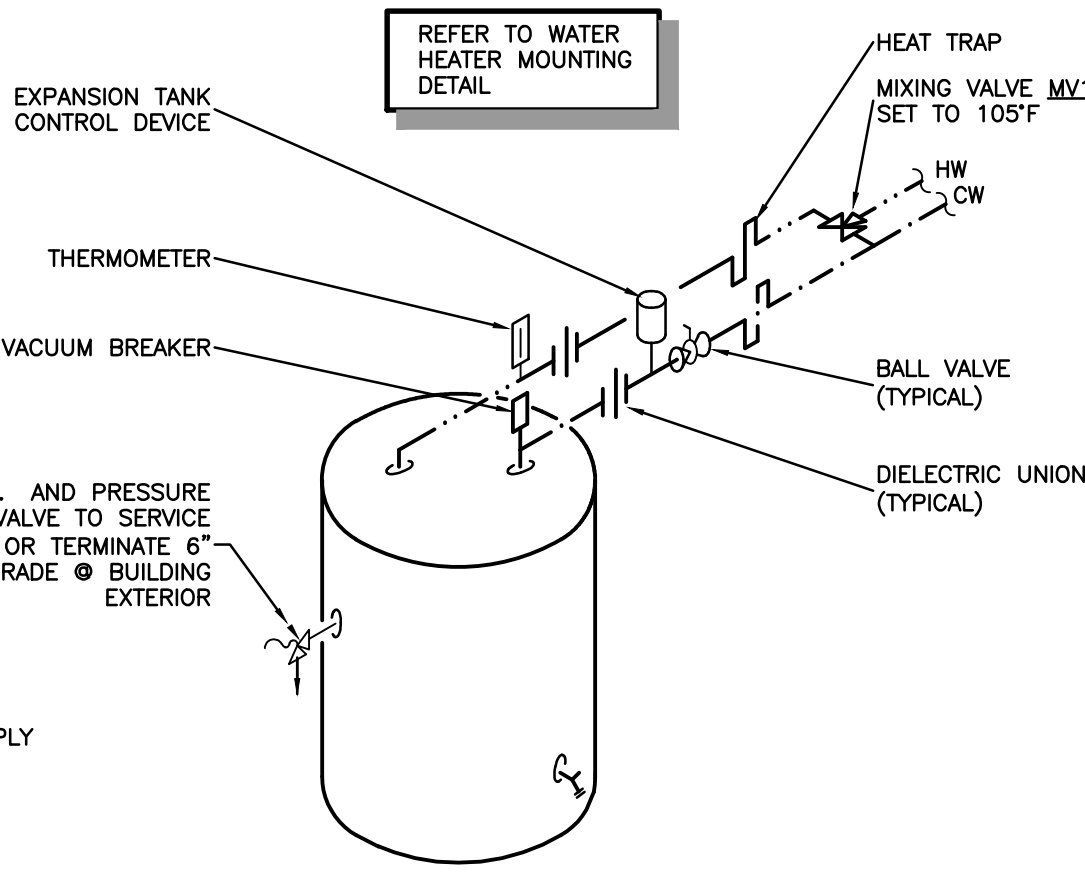
WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE

SIZE	FIXTURE UNITS	CROSS REF. PDI
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1 1/4"	61-113	D
1 1/2"	114-154	E
2"	155-330	F

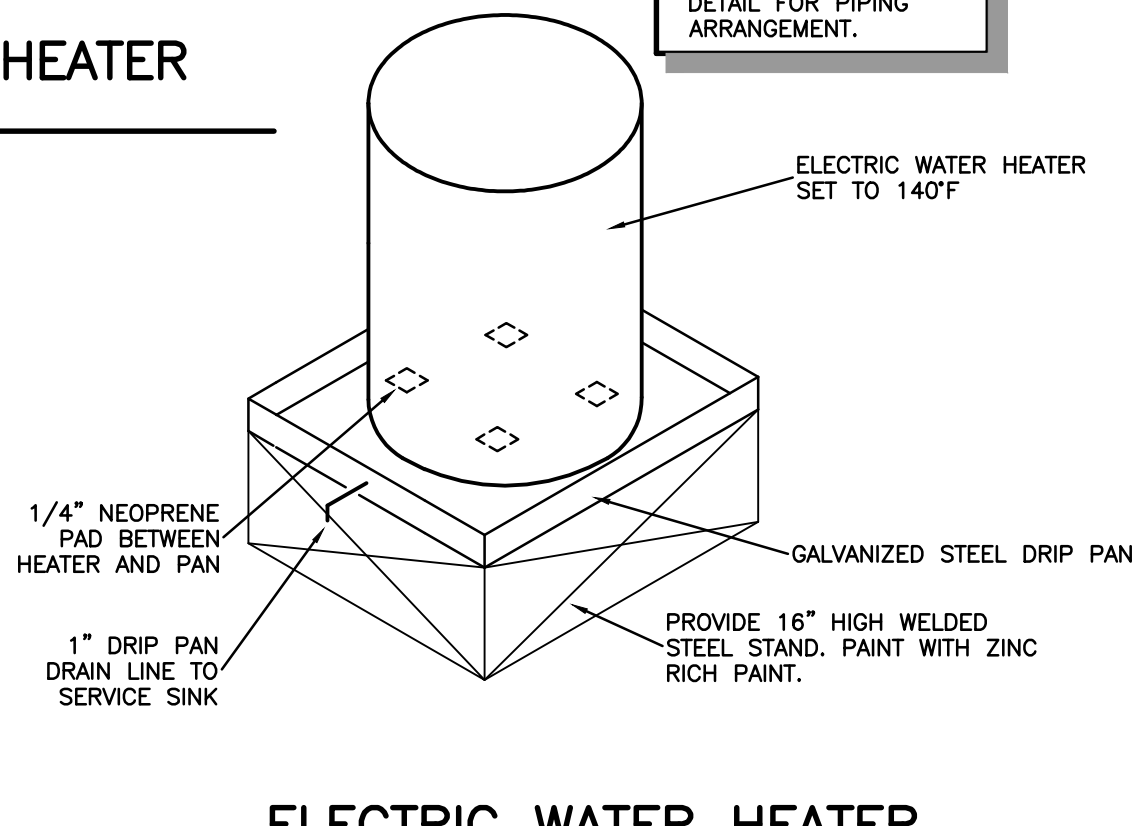
SIZING BASED ON PRECISION PLUMBING PRODUCTS "SWEAT IT ON" MODEL



TRAP PRIMER DETAIL
NOT TO SCALE



ELECTRIC WATER HEATER PIPING DETAIL
NOT TO SCALE



ELECTRIC WATER HEATER FLOOR MOUNTED DETAIL
NOT TO SCALE

MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW
FD1	FLOOR DRAIN 3" FLOOR DRAIN WITH TRAP PRIMER CONNECTED TO DOMESTIC COLD WATER LINE AT LAVATORY, NICKEL BRONZE TOP, 6" ROUND, CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER.	SMITH 2005-A-6"	3"	3"	1-1/2"	-	-
HB1	HOSE BIBB LOOSE KEY CHROME PLATE SILL FAUCET WITH 3/4" FLANGED FEMALE INLET, TEE HANDLE AND 3/4" HOSE THREAD OUTLET. PROVIDE WITH VACUUM BREAKER. COORDINATE MOUNTING HEIGHT WITH GRADING PLAN AT EXTERIOR LOCATIONS AND MOUNT AT 24" AFF AT INTERIOR LOCATIONS.	CHICAGO 387 CHICAGO 293-6 WATTS 8AC	-	-	-	-	3/4"
WCO	CAST IRON TEE WALL CLEAN-OUT WITH BRONZE PLUG AND ROUND STAINLESS STEEL COVER PLATE. SIZE C.O. SAME AS LINE SIZE (2-1/2" MINIMUM). PROVIDE PVC TO NO-HUB ADAPTERS FOR PVC DWV APPLICATIONS.	SMITH 4351S-Y	2-1/2" MIN.	-	-	-	-
VTR	VENT THROUGH ROOF WITH VANDALPROOF VENT CAP SIZE AS INDICATED ON DRAWINGS.	WADE W-3680	-	-	-	-	-
TP	PRESSURE DROP ACTIVATED TRAP PRIMER INSTALLED UNDER LAVATORY OR SINK, EXPOSED FOR MAINTENANCE. ALL EXPOSED PIPING TO TRAP PRIMER SHALL HAVE A CHROME FINISH.	MIFAB M-500	-	-	-	-	-
EW1	ELECTRIC WATER HEATER 3,000 WATTS, 208 VOLT, SINGLE PHASE, 10 GALLON ELECTRIC WATER HEATER.	RHEEM EGSP10	-	-	-	3/4"	3/4"
EW2	ELECTRIC WATER HEATER 6,000 WATTS, 208 VOLT, THREE PHASE, 50 GALLON ELECTRIC WATER HEATER.	RHEEM ELD52	-	-	-	1-1/4"	1-1/4"

MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW	MARK	DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	CW
P1 WATER CLOSET	NON-HANDICAPPED BOWL: WHITE FLOOR MOUNTED WITH BOTTOM OUTLET, VITREOUS CHINA, SIPHON-JET, ELONGATED BOWL, 14" AFF TO RIM, BOLT CAPS WITH CAULK, LOW CONSUMPTION FLUSH (1.6 GPF). BOWL AND SEAT DIMENSIONS MUST MATCH WITHIN 1/4". SEAT: WHITE SOLID PLASTIC, HEAVY DUTY, ELONGATED, OPEN FRONT (WITHOUT COVER), STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, INTEGRAL MOLDED BUMPERS FLUSH VALVE ASSEMBLY: 11-1/2" HIGH ABOVE RIM, EXPOSED DIAPHRAGM VALVE (1.6 GALLON FLUSH), CHROME FINISH, ADA COMPLIANT NON-HOLD-OPEN HANDLE, 1" INLET, 1-1/2" OUTLET, INTEGRAL SCREWDRIVER ADJUSTABLE ANGLE STOP AND CHECK VALVE WITH COVER, VACUUM BREAKER, WALL AND SPUD FLANGES, SWEAT SOLDER ADAPTER KIT, SOLID RING PIPE SUPPORT.	BRIGGS 7714 BENEKE 523-SS NCH SLOAN ROYAL 111-1.6-YB-YK	4"	INT.	2"	-	1"	P5 LAVATORY	BOWL: WHITE, SELF RIMMING, VITREOUS CHINA, OVAL, 4" CENTER LAVATORY WITH OVERFLOW. FAUCET: SINGLE LEVER HANDLE, VANDAL RESISTANT, 0.5 GPM, NON-AERATED SPRAY, CHROME FINISH. DRAIN: PERFORATED STRAINER, CHROME FINISH, 1-1/4" OUTLET P-TRAP: CHROME FINISHED WITH TWO UNIONS, 1-1/4" INLET AND 1-1/2" OUTLET, CLEANOUT PLUG, WALL ESCUTCHEON SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVE, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET AND OUTLET CONNECTIONS.	AMERICAN STANDARD AQUALYN 0476.028 DELTA 500-DST MCGUIRE 155-A2 MCGUIRE 8088 MCGUIRE 2165CCLK	2"	1-1/4"	1-1/4"	1/2"	1/2"
P2 WATER CLOSET	HANDICAPPED** BOWL: WHITE FLOOR MOUNTED WITH BOTTOM OUTLET, VITREOUS CHINA, SIPHON-JET, ELONGATED BOWL, 18" AFF TO RIM, BOLT CAPS WITH CAULK, LOW CONSUMPTION FLUSH (1.6 GPF). BOWL AND SEAT DIMENSIONS MUST MATCH WITHIN 1/4". SEAT: WHITE SOLID PLASTIC, HEAVY DUTY, ELONGATED, OPEN FRONT (WITHOUT COVER), STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, INTEGRAL MOLDED BUMPERS FLUSH VALVE ASSEMBLY: 11-1/2" HIGH ABOVE RIM, EXPOSED DIAPHRAGM VALVE (1.6 GALLON FLUSH), CHROME FINISH, ADA COMPLIANT NON-HOLD-OPEN HANDLE, 1" INLET, 1-1/2" OUTLET, INTEGRAL SCREWDRIVER ADJUSTABLE ANGLE STOP AND CHECK VALVE WITH COVER, VACUUM BREAKER, WALL AND SPUD FLANGES, SWEAT SOLDER ADAPTER KIT, SOLID RING PIPE SUPPORT. ROUGH-IN DIMENSION MUST ALLOW FOR FLUSH VALVE CLEARANCE OF HANDICAPPED GRAB BAR WHERE APPLICABLE, OR OFFSET FITTING MAY BE REQUIRED.	BRIGGS 7790 BENEKE 523-SS NCH SLOAN ROYAL 111-1.6-YB-YK	4"	INT.	2"	-	1"	P6 LAVATORY	HANDICAPPED ** BOWL: WHITE, WALL MOUNTED, VITREOUS CHINA, 20"x18", 4" CENTERS, PROVIDE FLOOR MOUNTED WALL CARRIER WITH CONCEALED ARMS. MOUNT AS FOLLOWS: APPLICATION APRON(MIN) RIM(MAX) ADULT 29" 34" FAUCET: SINGLE LEVER HANDLE, VANDAL RESISTANT, 0.5 GPM, NON-AERATED SPRAY, CHROME FINISH. DRAIN: PERFORATED STAINER, CHROME FINISH, 1-1/4" OUTLET WITH ADA COMPLIANT OFFSET TAILPIECE. PROVIDE PROTECTIVE INSULATION AS REQUIRED BY ADA. P-TRAP: CHROME FINISHED WITH TWO UNIONS, 1-1/4" INLET AND 1-1/2" OUTLET, CLEANOUT PLUG, WALL ESCUTCHEON SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVE, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET AND OUTLET CONNECTIONS. PROVIDE PROTECTIVE INSULATION AS REQUIRED BY ADA**.	AMERICAN STANDARD LUCERNE 0356.012 WATTS TCA-411 DELTA 500-DST MCGUIRE 155WC MCGUIRE 8088 MCGUIRE 2165CCLK PLUMBEREX "PRO-2000"	2"	1-1/4"	1-1/4"	1/2"	1/2"
P3 URINAL	NON-HANDICAPPED BOWL: WHITE, WALL HUNG VITREOUS CHINA, SIPHON-JET, 14" PROJECTION, 24" TO LIP, FLOOR MOUNTED CARRIER WITH CONCEALED BACK, LOW CONSUMPTION FLUSH (1.0 GPF), 304 STAINLESS STEEL BOLTS AND WASHERS FLUSH VALVE ASSEMBLY: 10" HIGH, EXPOSED DIAPHRAGM VALVE 1.0 GALLON FLUSH, CHROME FINISH, INLET, 1-1/4" OUTLET, INTEGRAL SCREW DRIVER ADJUSTABLE ANGLE STOP AND CHECK VALVE WITH COVER, VACUUM BREAKER, WALL AND SPUD FLANGES, SWEAT SOLDER KIT, AND WALL BRACKET	BRIGGS 7517 SMITH 637 SLOAN ROYAL 180-1-YB-YK	2"	INT.	1-1/2"	-	3/4"	P7 ELECTRIC WATER COOLER	HANDICAPPED** TWO LEVEL ELECTRIC WATER COOLER WHEELCHAIR ACCESS ELECTRIC WATER COOLER NON-RECESSED, STAINLESS STEEL TOP AND SIDES, WITH FRONT AND SIDE PRESSBARS, GRID STRAINER AND SAFETY BUBBLER. 4.4 GPH @ 30°F TEMPERATURE DIFFERENCE. 4.8AMPS @ 120V/16/60HZ. 1-1/4" P-TRAP, CAST BRASS WITH CLEAN OUT, 1/2" STOP. MOUNT WITH BUBBLER AT 30" & 36" AFF. WITH BOTTLE FILLING STATION.	ELKAY LZSTLBSWVRPK	2"	1-1/4"	1-1/4"	-	1/2"
P4 URINAL	HANDICAPPED ** BOWL: WHITE, WALL HUNG VITREOUS CHINA, SIPHON-JET, 14" PROJECTION, 17" TO LIP, FLOOR MOUNTED CARRIER WITH CONCEALED BACK, LOW CONSUMPTION FLUSH (1.0 GPF), 304 STAINLESS STEEL BOLTS AND WASHERS FLUSH VALVE ASSEMBLY: PROVIDE LOW HEIGHT OUTLET TUBE (SO THAT HANDLE IS NO HIGHER THAN SHOWN BELOW), EXPOSED DIAPHRAGM VALVE 1.0 GALLON FLUSH, CHROME FINISH, ADA COMPLIANT, NON-HOLD-OPEN HANDLE, 1" INLET, 1-1/4" OUTLET, INTEGRAL SCREW DRIVER ADJUSTABLE ANGLE STOP AND CHECK VALVE WITH COVER, VACUUM BREAKER, WALL AND SPUD FLANGES, SWEAT SOLDER KIT, AND WALL BRACKET. MOUNT AS FOLLOWS: APPLICATION LIP(MIN) HANDLE(MAX) ADULT 17" 44"	BRIGGS 7517 SMITH 637 SLOAN ROYAL 180-1-YB-YK	2"	INT.	1-1/2"	-	3/4"	P8 SERVICE SINK	SERVICE SINK ONE-PIECE CONSTRUCTION, 24"x24"x10", FLOOR MOUNTED, FAUCET WITH PAIL HOOK AND HOSE END, VACUUM BREAKER, INTEGRAL STOPS, VANDAL PROOF HANDLE MOP HANGER, 24"x3", 18 GA. STAINLESS STEEL BUMPER GUARD, 12 OZ. SILICONE SEALANT, 30" HOSE AND BRACKET COMBINATION.	MCGUIRE 2165CCLK FIAT MSB 2424 FIAT 830-AA FIAT 889-CC FIAT 833-AA FIAT 889-CC	2"	2"	2"	1/2"	1/2"
								P9	SHOWER CONCEALED PRESSURE BALANCING VOLUME CONTROL VALVE WITH SINGLE BLADE HANDLE AND SHOWER HEAD SPRAY HEAD WITH 5" HOSE, SPRAY HEAD, 30" VERTICAL CHROME BAR WITH ADJUSTABLE SLIDE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, STRAINER SHOWER GRATE. 2.5 GPM FLOW RESTRICTOR.	SYMMONS 25-500-B30	-	-	-	1/2"	1/2"
								P10	UTILITY TUB HIGH STRENGTH ONE-PIECE MOLDED CONSTRUCTION, 34"x20"x24", FLOOR MOUNTED TYPE, 18 GALLON CAPACITY, EXTRA DEEP 13" TUB WITH SMOOTH SURFACE. LEAKPROOF, INTEGRALLY MOLDED-IN DRAIN WITH STOPPER. MOLD AND MILDEW-RESISTANT COMPONENTS. COLOR-FAST, MARBLEIZED WHITE FINISH. FAUCET - CHROME FINISH, 4" CENTER SET WITH 6" SWING SPOUT WITH AERATOR AND HOSE END.	MUSTEE 18F UTILATUB MUSTEE MODEL 93.600	3"	3"	2"	1/2"	1/2"
								P11	EYEWASH BARRIER FREE, TYPE 304 CORROSION RESISTANT STAINLESS STEEL, HINGED DUST COVERS	BRADLEY S19214BSS	2"	2"	2"	-	1/2"

** FIXTURE AND ALL ATTACHMENTS SHALL COMPLY WITH CHAPTER 11 OF THE FLORIDA BUILDING CODE AND THE AMERICANS WITH DISABILITIES ACT. FIXTURE TO BE MOUNTED PER THIS SCHEDULE UNLESS NOTED OTHERWISE IN PLAN. FLUSH VALVE IS TO BE ON THE SIDE TOWARDS THE ASSOCIATED LAVATORY WHERE APPLICABLE.
*** CONNECT COLD WATER SUPPLY LINE TO HOT AND COLD WATER FIXTURE CONNECTIONS. PROVIDE TWO COLD WATER INDEXES WHERE POSSIBLE.

PLUMBING LEGEND	
	VENT PIPING
	WASTE PIPING BELOW FLOOR OR GRADE (SAN)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	PIPING UP
	PIPING DOWN
	P# PLUMBING FIXTURE IDENTIFICATION. SEE PLUMBING FIXTURE SCHEDULE
	VTR VENT THROUGH ROOF
	CONNECT NEW TO EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO EXECUTING WORK
	(E) EXISTING - EXACT SIZE AND LOCATION TO BE FIELD VERIFIED.
	AFF ABOVE FINISHED FLOOR
	BFF BELOW FINISHED FLOOR
	W WASTE
	V VENT

GENERAL PLUMBING NOTES

- ALL PLUMBING WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
 - FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
 - 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
 - 2011 NATIONAL ELECTRIC CODE
- PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS.
- CONDITIONS SHOWN AS EXISTING ARE BASED ON AVAILABLE DATA AND SHOULD BE INTERPRETED TO BE APPROXIMATE. VERIFY EXISTING CONDITIONS IN THE FIELD.
- COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- COORDINATE LOCATIONS OF FLOOR DRAINS AND CLEAN OUTS WITH THE ARCHITECTURAL DRAWINGS.
- UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE RUN IN CONCEALED SPACES. HOWEVER, NO PIPING SHALL BE CHASED OR CUT INTO THE TENANT DEMISING WALLS.
- WATER PIPING SHALL BE HARD DRAWN COPPER TYPE L WITH WROUGHT COPPER FITTINGS AND 95-5 SOLDER.
- ALL SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC DWV.
- SANITARY PIPING BELOW THE GROUND FLOOR SLAB SHALL BE SCHEDULE 40 DWV PVC SOIL PIPE AND FITTINGS.
- VENT THROUGH ROOF TERMINALS SHALL BE LOCATED 10'-0" AWAY FROM ANY BUILDING INTAKE OPENINGS. COORDINATE WITH THE MECHANICAL CONTRACTOR.
- GATE VALVES SHALL BE #125 BRONZE WITH UNION BONNET.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE.
- UNLESS NOTED OTHERWISE, ALL PLUMBING EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A ONE YEAR PERIOD FROM DATE OF ACCEPTANCE.
- PROVIDE ALL CUTTING REQUIRED FOR THE INSTALLATION OF PLUMBING WORK. FINISH PATCHING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER.
- ALL SOIL AND WASTE PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT. LARGER WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
- ALL WATER PIPING SHALL BE SUPPORTED RIGIDLY AND IN LINE FROM THE BUILDING STRUCTURE. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
- PRIOR TO COMMENCING ANY PLUMBING ROUGH-IN, THE EXISTING SANITARY PIPING SHALL BE EXCAVATED. VERIFY THE EXACT SIZE, LOCATION, INVERT AND DIRECTION OF FLOW. NOTIFY THE ENGINEER IMMEDIATELY IF THE DRAIN IS SMALLER THAN INDICATED OR IF THE INVERT WILL NOT BE LOW ENOUGH FOR THE NEW PLUMBING ROUGH-IN. CONNECT NEW SANITARY LINES TO EXISTING SANITARY LINES AS INDICATED. PATCH THE FLOOR AS DIRECTED BY THE ARCHITECT.
- VERIFY ALL SITE RELATED SANITARY & WATER CONNECTIONS PRIOR TO STARTING WORK. SHOULD DEPTHS BE DIFFERENT THAN THAT SHOWN HEREIN ADVISE ENGINEER IMMEDIATELY.
- PRIOR TO SITE UTILITIES WORK, CALCULATE THE INVERTS FOR ALL SANITARY WASTE CONNECTIONS BASED ON ACTUAL CONDITIONS. COORDINATE SANITARY WASTE LOCATIONS AND INVERTS WITH SITE UTILITIES CONTRACTOR.
- WASTE LINES RECEIVING BELOW AMBIENT TEMPERATURE CONDENSATE SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR FOAM (ARMAFLEX OR EQUIVALENT) INSULATION TO GRADE.
- ALL EXISTING LINES TO REMAIN SHALL BE VISUALLY INSPECTED AND MACHINE CLEANED.
- REMOVE ALL UNUSED WASTE AND VENT PIPING.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

COORDINATE AND VERIFY EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS

REFER TO RISER ON DRAWING P2.1 FOR DOMESTIC WATER AND WASTE AND VENT LINE SIZING

PLUMBING DRAWING INDEX

P0.1	PLUMBING GENERAL NOTES, LEGEND, SCHEDULES AND DETAILS
P1.1	PLUMBING PLANS
P2.1	SANITARY AND DOMESTIC WATER ISOMETRICS

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HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
2008 EAST 8TH AVENUE
TAMPA, FLORIDA 33605

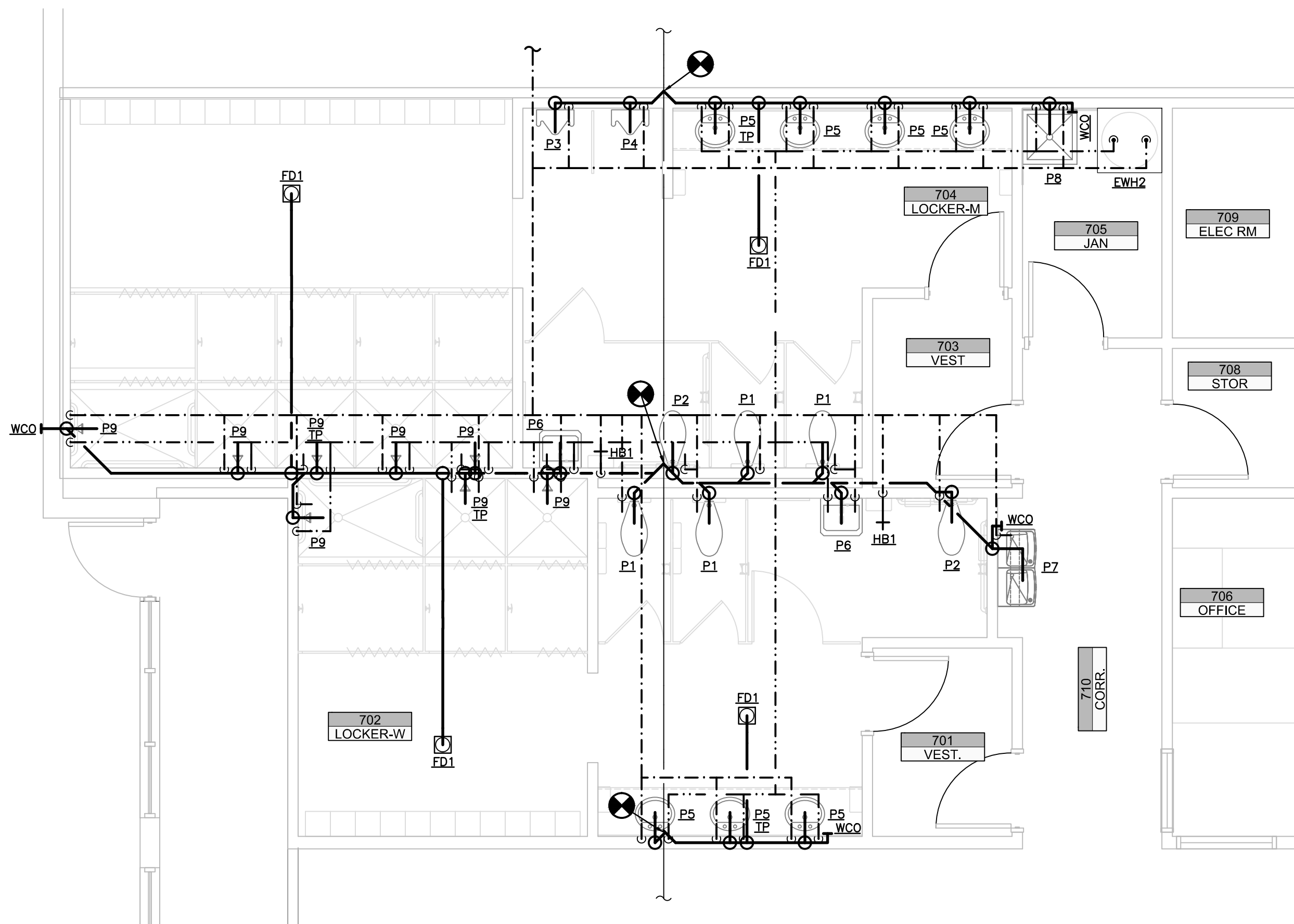
HILLSBOROUGH COUNTY SHERIFF'S OFFICE
FIRING RANGE AND WORKOUT GYM
PINEBROOKE BUSINESS PARK

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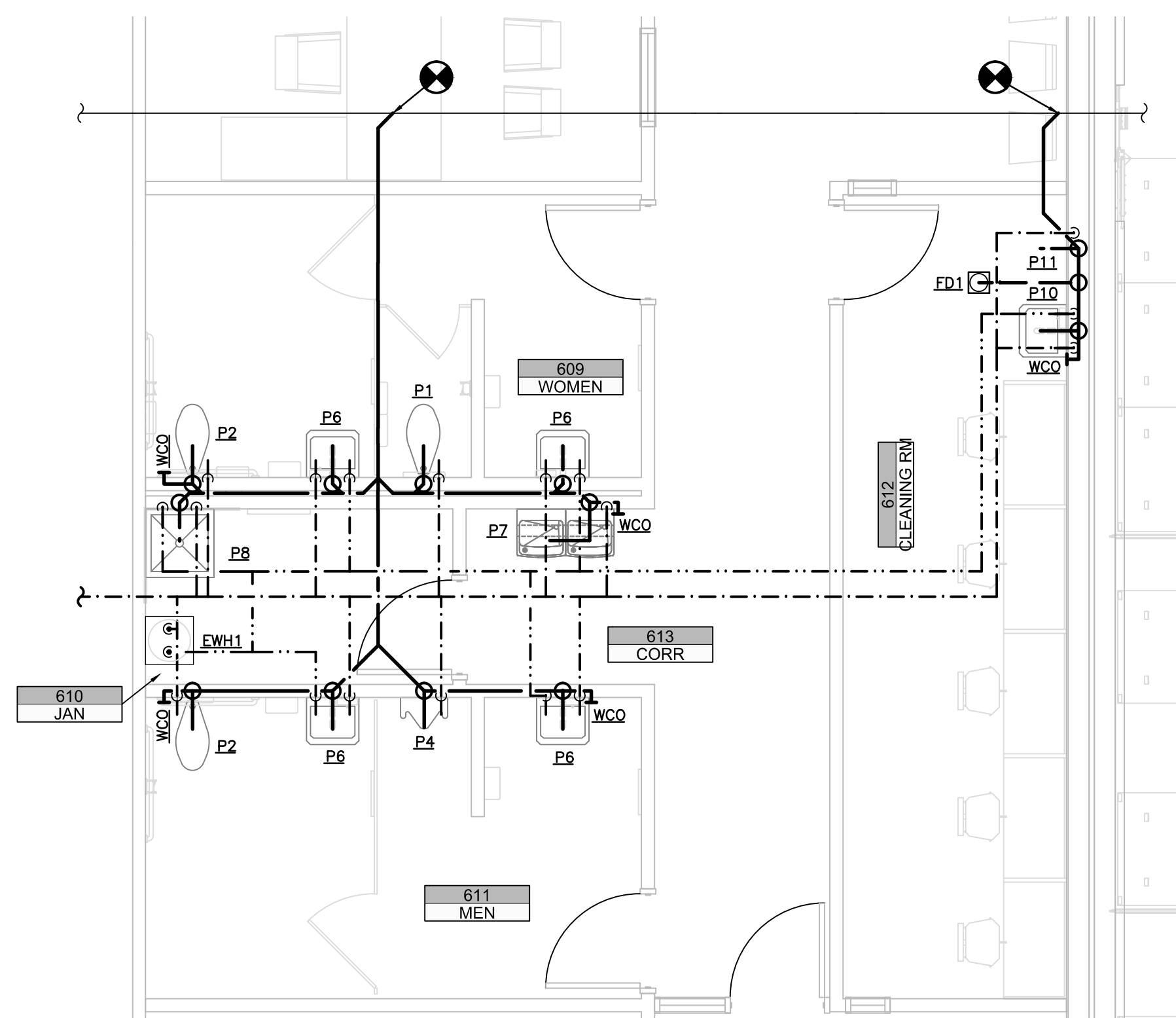
PLUMBING GENERAL
NOTES, LEGEND,
SCHEDULES AND
DETAILS

P0.1

Drawing File: L:\600\16055\001\16055plumbing.dwg P11
Plotted by: Brandon Jan 16, 2017 - 4:59pm



PARTIAL PLUMBING PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



PARTIAL PLUMBING PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

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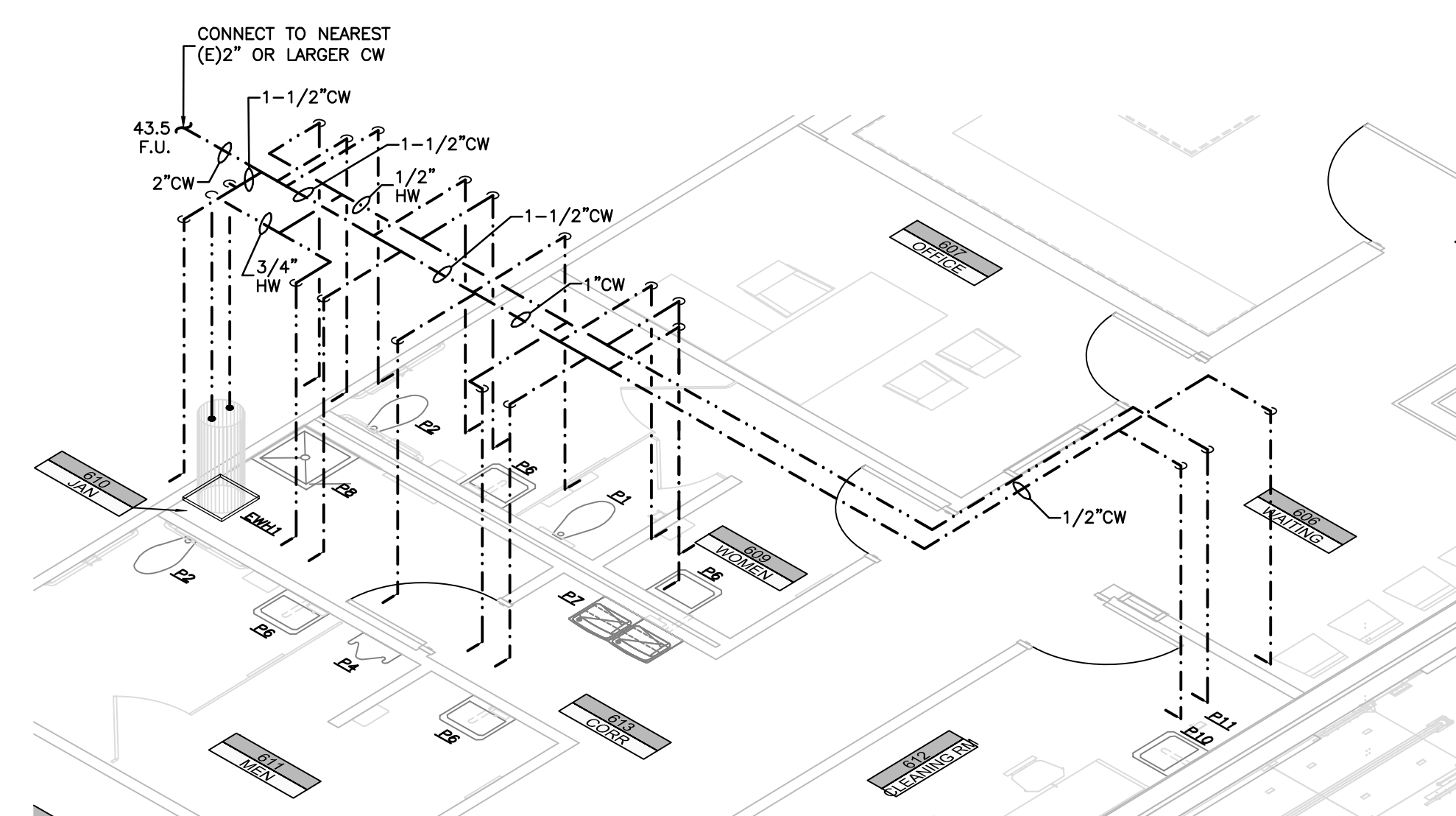
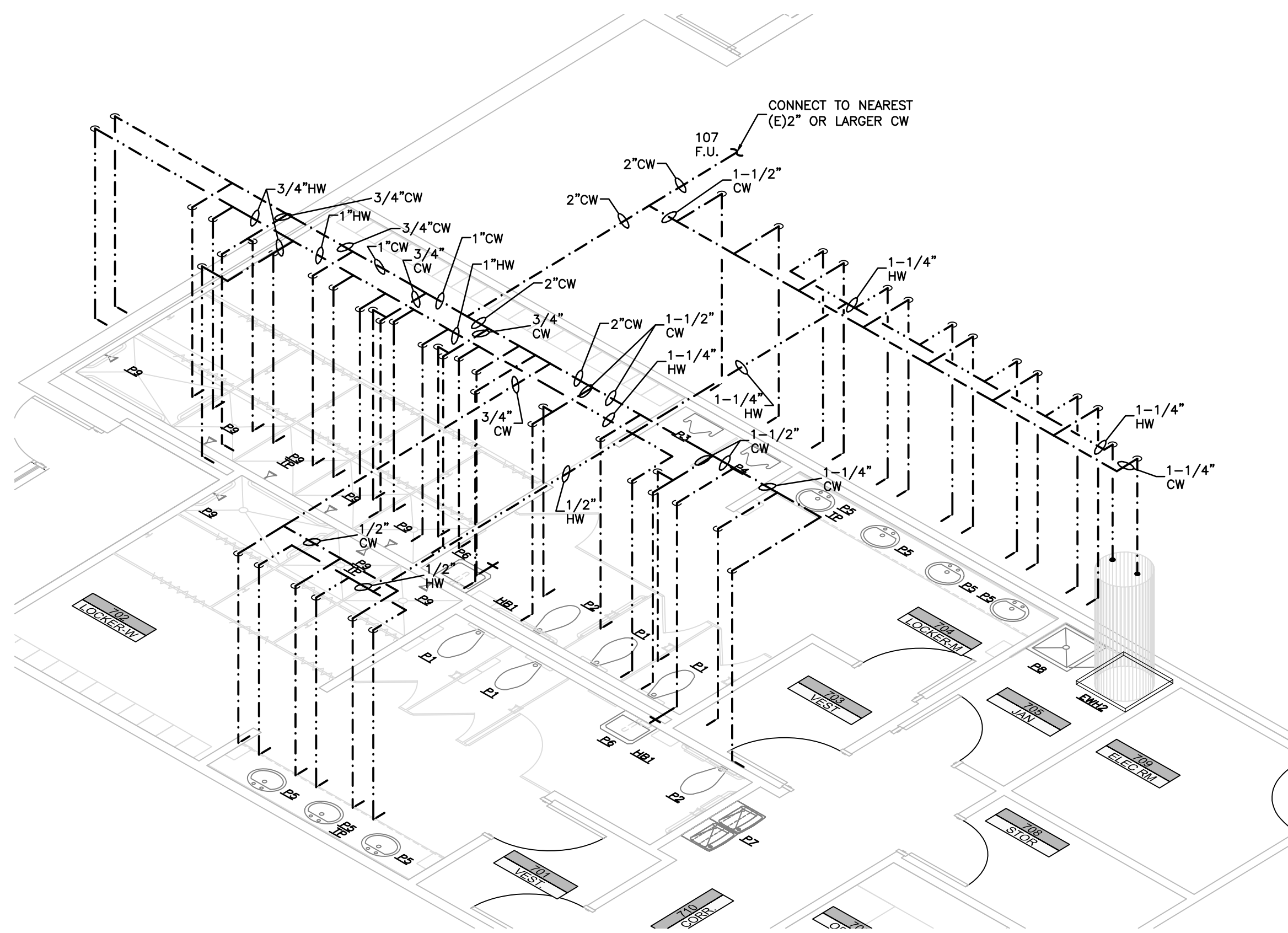
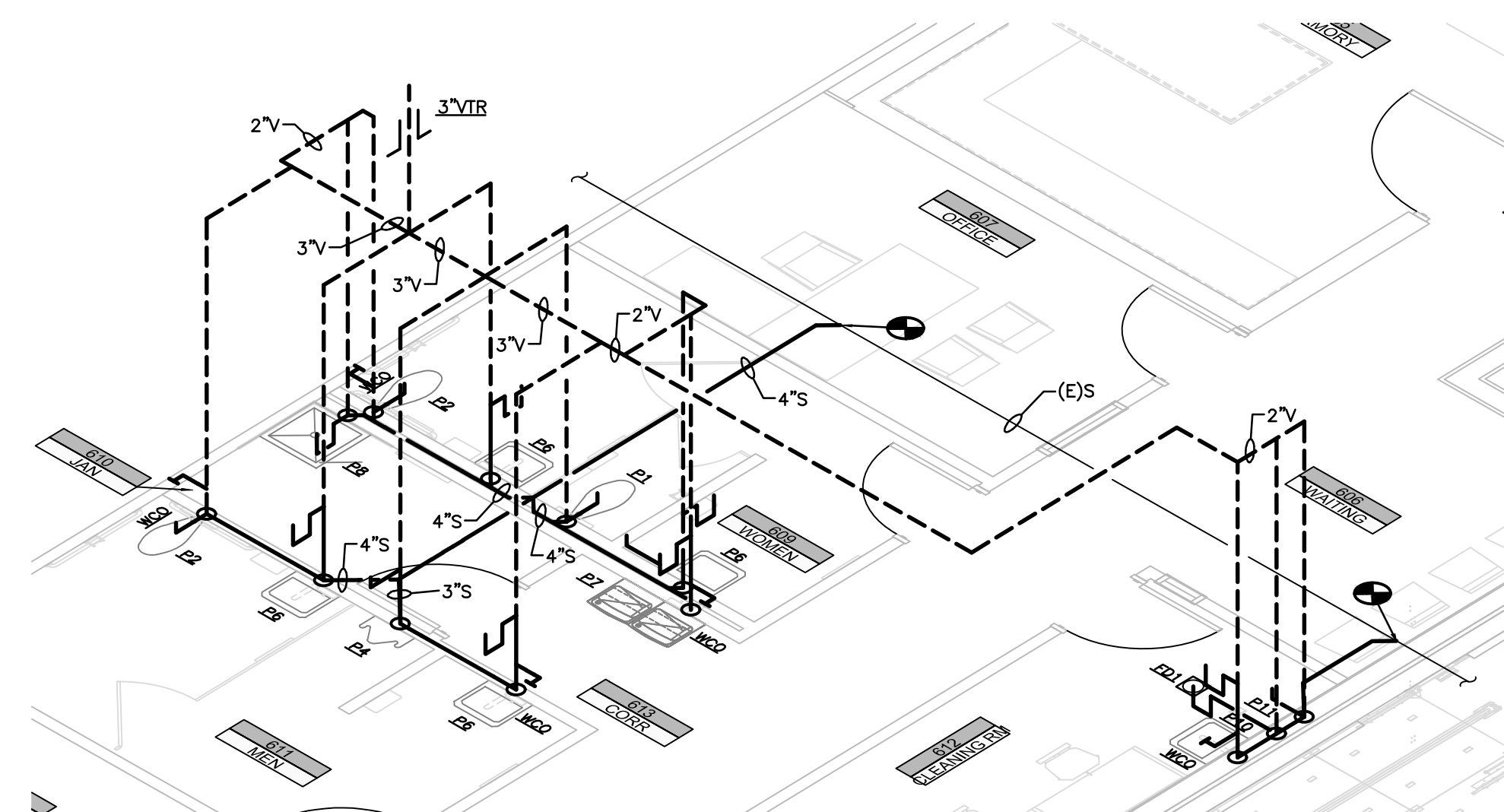
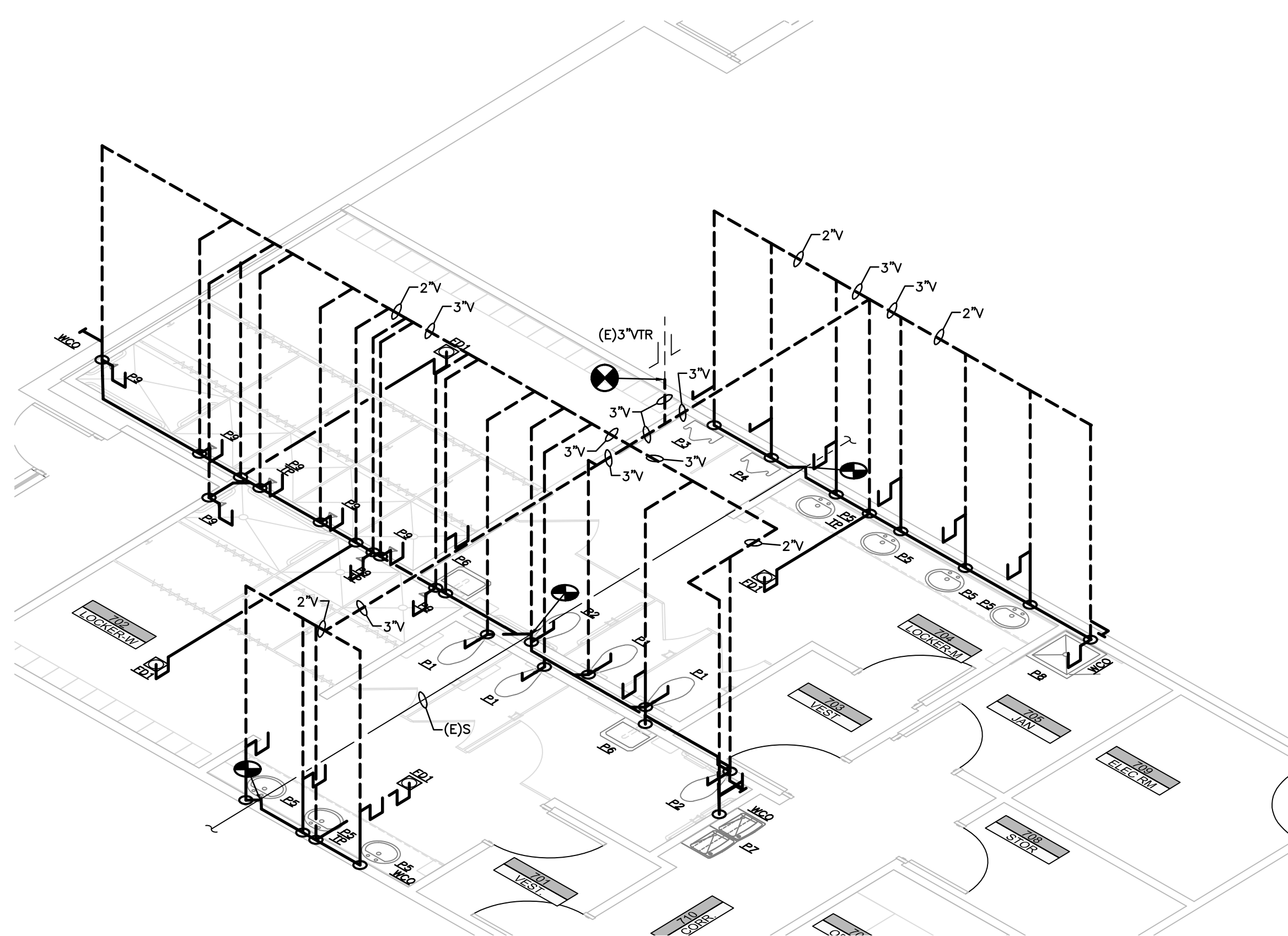
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PLUMBING PLANS

P1.1



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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
FIRING RANGE AND WORKOUT GYM
PINEBROOKE BUSINESS PARK

PROJECT #: 1626-00	
DISTRIBUTION	DATE
PERMIT SET	1/16/20

SANITARY AND DOMESTIC WATER ISOMETRICS

P2.1

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Plotted by: Brandon Jan 16, 2017 - 4:59pm

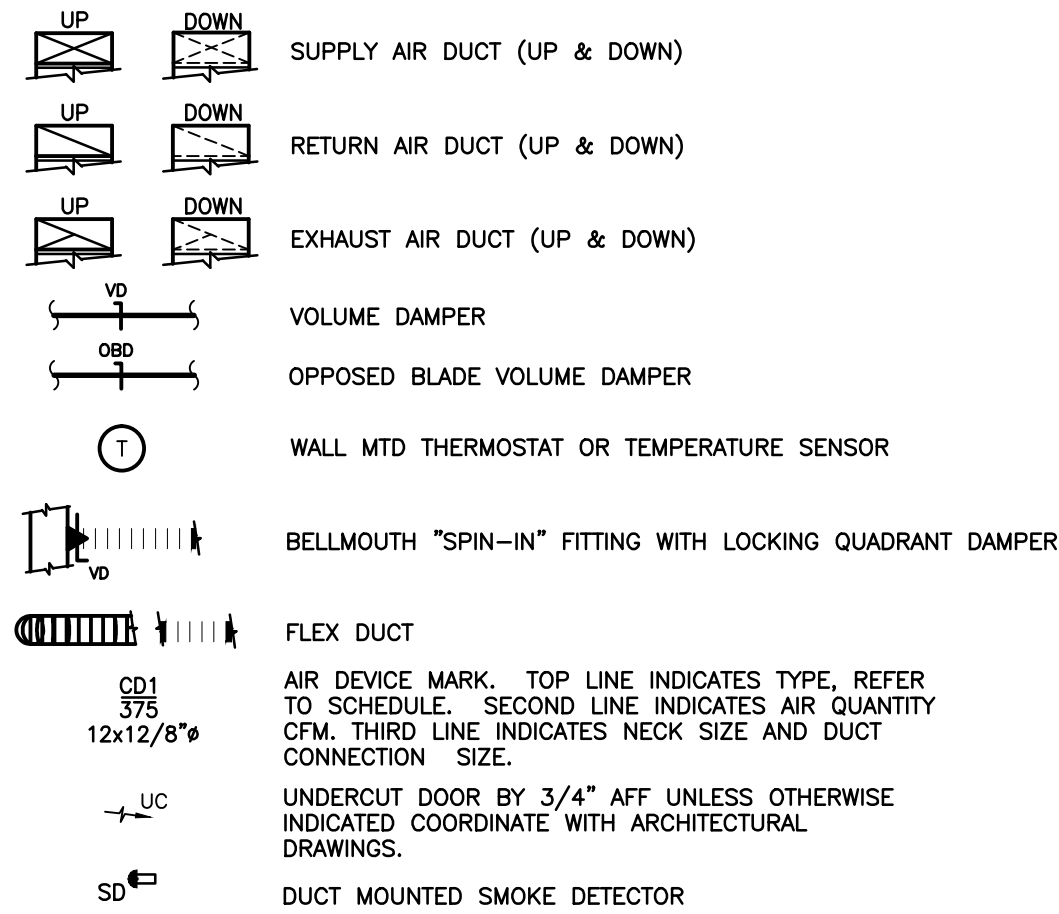
GENERAL MECHANICAL NOTES

- ALL MECHANICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
 - FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
 - 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
 - 2011 NATIONAL ELECTRIC CODE
 - 2014 STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF): - (EFFECTIVE NOVEMBER 4, 2014)
- VERIFY, BY VISITING THE SITE, THE LOCATION OF UTILITIES IN ALL AREAS BEFORE COMMENCING WORK. REFER TO SPECIFICATIONS.
- COORDINATE ALL WORK WITH OTHER AFFECTED TRADES. THE MECHANICAL CONTRACTOR SHALL FORWARD TO THE ELECTRICAL CONTRACTOR AN APPROVED COPY OF ALL EQUIPMENT SHOP DRAWINGS FOR ELECTRICAL POWER/CONTROL INTERFACE.
- COVER ALL ELECTRICAL AND MECHANICAL EQUIPMENT TO PROTECT THEM FROM DUST AND DAMAGE DURING CONSTRUCTION. RESTORE ALL FACTORY PAINTED SURFACES TO NEW CONDITION. REPAIR ALL SCRATCHES, DENTS AND ABRASIONS. THOROUGHLY CLEAN ALL SURFACES OF DUST DEBRIS, AND FOREIGN MATTER. THE EQUIPMENT, WHEN TURNED OVER TO THE OWNER, SHALL BE CLEAN AND FREE OF DEFECTS.
- PRIOR TO SUBSTANTIAL COMPLETION, A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS.
- THE CONDENSATE DRAIN LINE SHALL HAVE A TRAP AT THE RTU. TRAP SHALL BE AS DETAILED AND SHALL HAVE A WATER SEAL EQUAL TO 2" + THE UNITS' STATIC PRESSURE. PROVIDE CLEAN OUTS IN ALL CHANGES OF DIRECTION. MINIMUM PITCH 1/8" PER FOOT. CONDENSATE DRAIN LINE SHALL BE PVC AND RUN TO THE NEAREST ROOF DRAIN.
- PROVIDE INSULATION FOR NEW DUCTWORK TO AND FROM THE UNIT WITH GLASS FIBER DUCT WRAP INSULATION. FACTORY APPLIED FOIL FACED VAPOR BARRIER, ASTM 518 AND ASTM E84 CERTIFIED TESTING PROCEDURES. JOINT TAPE SHALL BE MINIMUM 3" WIDE FOIL REINFORCED KRAFT TYPE. INSULATION THICKNESS SHALL BE A MINIMUM 2" THICK.
- IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
- ALL DUCTWORK SHALL MEET THE STANDARDS SET FORTH BY THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE FABRICATED FROM SHEET METAL. ALL ROUND DUCT SHALL BE SHEET METAL UNLESS OTHERWISE NOTED. PROVIDE TURNING VANES IN ALL 90° DUCT ELBOWS.
- SUPPLY AIR DUCT FULL SIZE OF UNIT DISCHARGE. TRANSITION TO SIZE INDICATED ON DRAWINGS. RETURN AIR DUCT IS TO TRANSITION FROM SIZE INDICATED ON DRAWINGS TO FULL SIZE OF UNIT INLET.
- ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS (FREE AREA).
- VERIFY ALL CLEARANCES AND DIMENSIONS BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSETS TO MEET FIELD CONDITIONS. ADJUST LOCATIONS OF ALL EQUIPMENT AND DUCTWORK, AS NECESSARY TO AVOID INTERFERENCES WITH STRUCTURAL AND OTHER BUILDING COMPONENTS.
- UNLESS NOTED OTHERWISE, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO UNDERSIDE OF STRUCTURE. COORDINATE DUCT ELEVATION WITH RAIN LEADERS, WATER PIPING, DRAINS, AND MAJOR ELECTRICAL CONDUITS AND LIGHTS. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO KEEP DUCTWORK TIGHT TO THE STRUCTURE AND MAINTAIN CEILING ELEVATIONS AS INDICATED IN THE ARCHITECTURAL DRAWINGS. DUCTWORK MAY BE FLATTENED TO A 4:1 HEIGHT RATIO MAINTAINING THE DUCT FREE AREA SIZE AS INDICATED IN THE DRAWINGS. DUCT SHAPE MAY HAVE TO BE ADJUSTED (I.E. ROUND TO RECTANGULAR) AS SPACE DICTATES. MULTIPLE SMALLER RUNS MAY BE REQUIRED IN PLACE OF A SINGLE RUN. DUCT RECONFIGURATION SHALL BE INDICATED IN THE DUCT FABRICATION DRAWINGS AND FIELD VERIFIED PRIOR TO SUBMITTAL FOR ENGINEER'S REVIEW.
- DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.
- ALL SUPPLY DUCTWORK SHALL BE 2" W.G. PRESSURE CLASS. ALL OTHER DUCTWORK SHALL BE 1" W.G. ALL SHEET METAL DUCTWORK SHALL HAVE A CLASS C SEAL.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO INSTALL MECHANICAL EQUIPMENT AND MATERIALS.
- VERIFY PROPER OPERATION OF ALL FIRE SMOKE DAMPERS IN CONJUNCTION WITH THE FIRE ALARM SYSTEM IN THE DESIGNATED CONSTRUCTION AREA.
- THE OWNER SHALL BE GIVEN ONE WEEK PRIOR NOTICE FOR ALL PERIODS OF HVAC SYSTEMS DOWNTIME.
- IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE AIR HANDLERS MAY ONLY BE STARTED IF THE FOLLOWING CONDITIONS ARE MET:
 - ALL OPENINGS FROM THE CONDITIONED SPACE DIRECTLY TO THE OUTSIDE MUST BE CLOSED. TEMPORARY CLOSURE METHODS MAY BE USED SUCH AS THE UTILIZATION OF PLASTIC SHEETS AND DUCT TAPE.
 - WOP CLEAN ALL CONSTRUCTION DEBRIS AND DUST FROM THE FLOOR. PROVIDE DOOR MATS AT ALL ENTRANCES INTO THE BUILDING.
 - TEMPORARY BARRIERS ARE TO BE PROVIDED AROUND AREAS THAT WILL HAVE ANY CONCRETE GRINDING OPERATION, DRYWALL WORK, PAINTING OR ANY OTHER PARTICULATE PRODUCING PROCESSES. ALL AIR DISTRIBUTION DEVICES IN THESE AREAS OF CONTAINMENT ARE TO BE COVERED AND SEALED AIR TIGHT.
 - ALL RETURN GRILLES SHALL HAVE MERV-8 FILTER MEDIA TAPED OVER THEM PRIOR TO AIR HANDLER STARTUP AND SHALL REMAIN IN PLACE UNTIL ALL DUST PRODUCING OPERATIONS HAVE BEEN COMPLETED AND PRIOR TO TEST AND BALANCE. CLEAN ALL TAPE RESIDUE FROM THE GRILLES.
 - ONCE THE UNIT IS STARTED, FILTERS IN THE AIR HANDLERS ARE TO BE SHAKEN CLEAN DAILY.
- OMIT INSULATION ON TRANSFER DUCT SYSTEM. TRANSFER DUCT SYSTEMS ARE CONNECTED TO "XG#" TYPE AIR DISTRIBUTION DEVICES.
- SUBMIT DUCT FABRICATION DRAWINGS AND MECHANICAL ROOM LAYOUTS PER SPECIFICATIONS PRIOR TO ANY FRAMING WORK. ALL CHASE SIZES, FLOOR DRAINS IN MECHANICAL ROOMS/CLOSETS, AND ELECTRICAL PANEL LOCATIONS SHALL BE FIELD VERIFIED, COORDINATED, AND INDICATED IN THE SUBMITTAL. THE DOORS TO FAN COIL CLOSETS SHALL BE PLACED IN FRONT OF THE FAN COIL TO MAXIMIZE ACCESSIBILITY TO ALL POINTS OF MAINTENANCE.
- ALL DUCT MOUNTED MANUAL BALANCING DAMPERS SHALL HAVE A TWO FOOT LONG, YELLOW STRIP OF MATERIAL ATTACHED TO THE DAMPER HANDLE FOR EASY VISUAL IDENTIFICATION.
- ALL FIRE STOPPING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S U.L. DETAILS OF THE PRODUCTS USED SPECIFICALLY ON THIS PROJECT. APPLICABLE U.L. DETAILS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW AND A COPY SHALL BE AVAILABLE ON SITE FOR USE BY THE AUTHORITY HAVING JURISDICTION.
- CONTROLS CONDUITS SHALL CONFORM TO ALL REQUIREMENTS FOR DIVISION 16 CONDUITS. REFER TO DIVISION 16 SPECIFICATIONS AND DRAWINGS.
- CONCRETE SLAB/PAD IS TO HAVE NO CONTACT WITH ANY METAL PORTION OF THE EQUIPMENT OR THAT EQUIPMENT'S SUPPORT. PROVIDE 1/4" THICK RED, OR BLACK, RUBBER PAD UNDER THE ENTIRE METAL SURFACE INTENDED TO REST ON THE CONCRETE PAD.
- PROVIDE DIELECTRIC UNIONS/PROTECTION AT ALL POINTS OF CONNECTION BETWEEN DISSIMILAR METALS; PIPE, PIPE HANGERS, CONNECTIONS TO STRUCTURAL STEEL, ETC.
- ROUND FLEX DUCT SHALL BE A MAXIMUM LENGTH OF 6 FEET. ALL RUNS OF FLEX DUCT ARE TO BE SUPPORTED WITH THE APPROPRIATE HANGERS. FLEX DUCT SHALL NOT SAG OR BE CRIMPED.
- AIR CONDITIONING FILTERS ARE TO BE PROVIDED AND CHANGED BY THE CONTRACTOR UP TO AND ON THE DATE OF SUBSTANTIAL COMPLETION ACCEPTANCE. FROM THAT TIME ON, THE OWNER WILL RETAIN ALL RESPONSIBILITY FOR FILTER MAINTENANCE. THREE SETS OF FILTERS SHALL BE PROVIDED; INSTALL ONE SET OF FILTERS DURING CONSTRUCTION/START-UP AT COMPLETION OF AIR HANDLING SYSTEM WORK, INSTALL ONE SET THE DAY OF TESTING, ADJUSTING, AND BALANCING WORK, AND THIRD SET SHALL BE TURNED OVER TO THE OWNER. OBTAIN RECEIPT FROM OWNER THAT NEW FILTERS HAVE BEEN INSTALLED, AND THE EXTRA SET HAS BEEN RECEIVED.
- PROVIDE PROTECTION FOR ALL OPENINGS IN THE ROOF DURING THE CONSTRUCTION PERIOD, INCLUDING ROOF TOP A/C UNIT OPENINGS, EXHAUST FANS, CONDUITS, ETC. PROVIDE PROTECTION FOR ALL INTERIOR AREAS OF THE BUILDING INCLUDING THE FLOORING, CEILINGS, WALLS, STRUCTURE, ETC. ANY DAMAGE TO THESE AREAS OR ANY OTHER EXISTING AREAS SHALL BE REPAIRED TO NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- FALL PROTECTION SYSTEMS: OSHA REQUIRES THAT ONE OF THE FOLLOWING SYSTEMS MUST BE IN PLACE WHENEVER AN EMPLOYEE IS EXPOSED TO A FALL GREATER THAN SIX FEET:
 - GUARDRAIL SYSTEMS
 - PERSONAL FALL PROTECTIVE SYSTEMS CONSISTING OF THE FOLLOWING:
 - PERSONAL PROTECTIVE EQUIPMENT
 - CONNECTING DEVICES
 - ANCHORAGE
 - WARNING LINE SYSTEMS AND CONTROLLED ACCESS ZONES: GUIDELINES FOR THE IMPLEMENTATION OF WARNING LINE SYSTEMS AND WORK IN CONTROLLED ACCESS ZONES MUST BE DEVELOPED IN ACCORDANCE WITH OSHA REGULATION 1926.502 AND APPROVED BY OSHA BEFORE EMPLOYEES ARE EXPOSED TO FALL HAZARDS.
- CONTRACTOR WILL BE RESPONSIBLE FOR CURB ADAPTERS.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EXAMINATION OF EXISTING CONDITIONS

ALL BIDDERS ARE ENCOURAGED TO VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND ARE REQUIRED TO ATTEND THE MANDATORY PREBID MEETING PRIOR TO SUBMITTING THEIR BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS, INCLUDING THE PRESENCE OF ASBESTOS. THE OWNER SHALL REMOVE FROM THE SITE ALL CURRENTLY KNOWN SOURCES OF ASBESTOS PRIOR TO COMMENCEMENT OF THE WORK TO BE PERFORMED BY THE CONTRACTOR. IF DURING THE COURSE OF CONSTRUCTION, THERE IS REASON TO SUSPECT THE PRESENCE OF ADDITIONAL ASBESTOS, IMMEDIATELY NOTIFY THE ARCHITECT. THE ARCHITECT SHALL NOTIFY THE OWNER WITH REASONABLE PROMPTNESS TO ALLOW THE OWNER, AT THE OWNER'S EXPENSE, TO HAVE THE MATERIAL TESTED USING RECOGNIZED TESTING METHODS COMMONLY APPROVED IN THE INDUSTRY. SHOULD THE MATERIAL TEST POSITIVE FOR ASBESTOS, THE OWNER SHALL ARRANGE FOR THE ABATEMENT AND DISPOSAL OF THE MATERIAL AT THE OWNER'S EXPENSE. CONSTRUCTION MAY BE SUSPENDED DURING THE PERIOD REQUIRED TO COMPLETE SUCH TESTING AND REMOVAL OF ASBESTOS. SHOULD THE OWNER FAIL, WITHIN A REASONABLE TIME, TO REMOVE ALL THE ASBESTOS FROM THE SITE OR FAIL TO VERIFY TO THE SATISFACTION OF THE ARCHITECT AND CONTRACTOR THAT NO ASBESTOS IS PRESENT, THEN THE CONTRACTOR SHALL BE RELIEVED OF ANY FURTHER OBLIGATION REGARDING CONSTRUCTION.

HVAC LEGEND



DESIGN CRITERIA

Location: TAMPA
Latitude: 28.0°
Longitude: 82.0°
Elevation: 19 ft.
Barometric Pressure: 29.9 in. Hg

DESIGN TEMPERATURES:
Ambient Summer Design Dry Bulb: 94°F
Ambient Summer Design Wet Bulb: 80°F
Ambient Winter Design Dry Bulb: 36°F
Space Setpoint - cooling: 76°F
Space Setpoint - heating: 70°F
Space Setpoint - humidity: 50% RH
Kitchen Space Setpoint: 78°F

DUCTWORK MATERIALS

- FLEX DUCT SHALL NOT EXCEED 6 LINEAR FEET.
- THE USE OF SNAP LOCK DUCT IS NOT PERMITTED.

MECHANICAL DRAWING INDEX

- M0.1 HVAC GENERAL NOTES AND LEGEND
M1.1 HVAC PLANS
M2.1 HVAC SCHEDULES AND DETAILS

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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
FIRING RANGE AND WORKOUT GYM
PINEBROOKE BUSINESS PARK

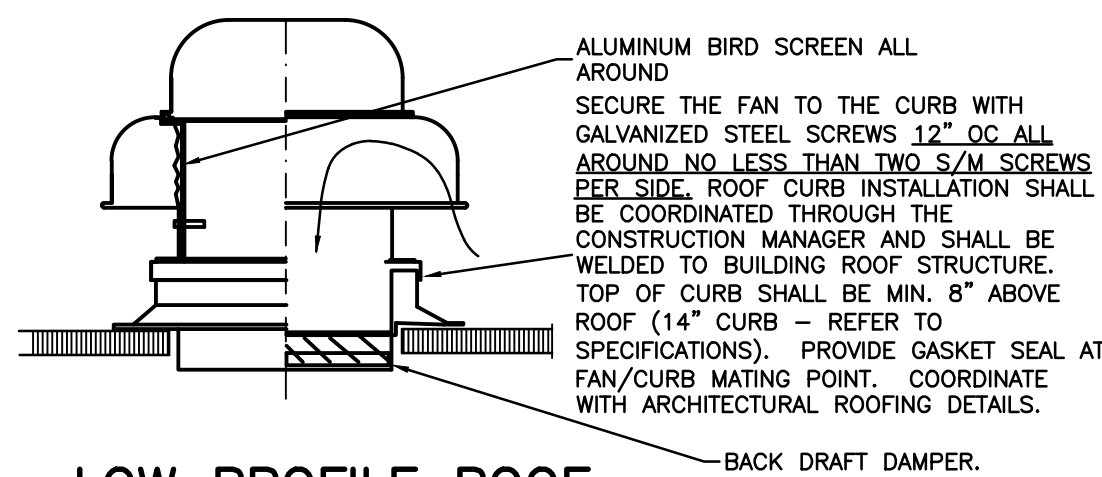
PROJECT #: 1626-00
DISTRIBUTION DATE
PERMIT SET 1/16/2017

HVAC GENERAL
NOTES AND LEGEND

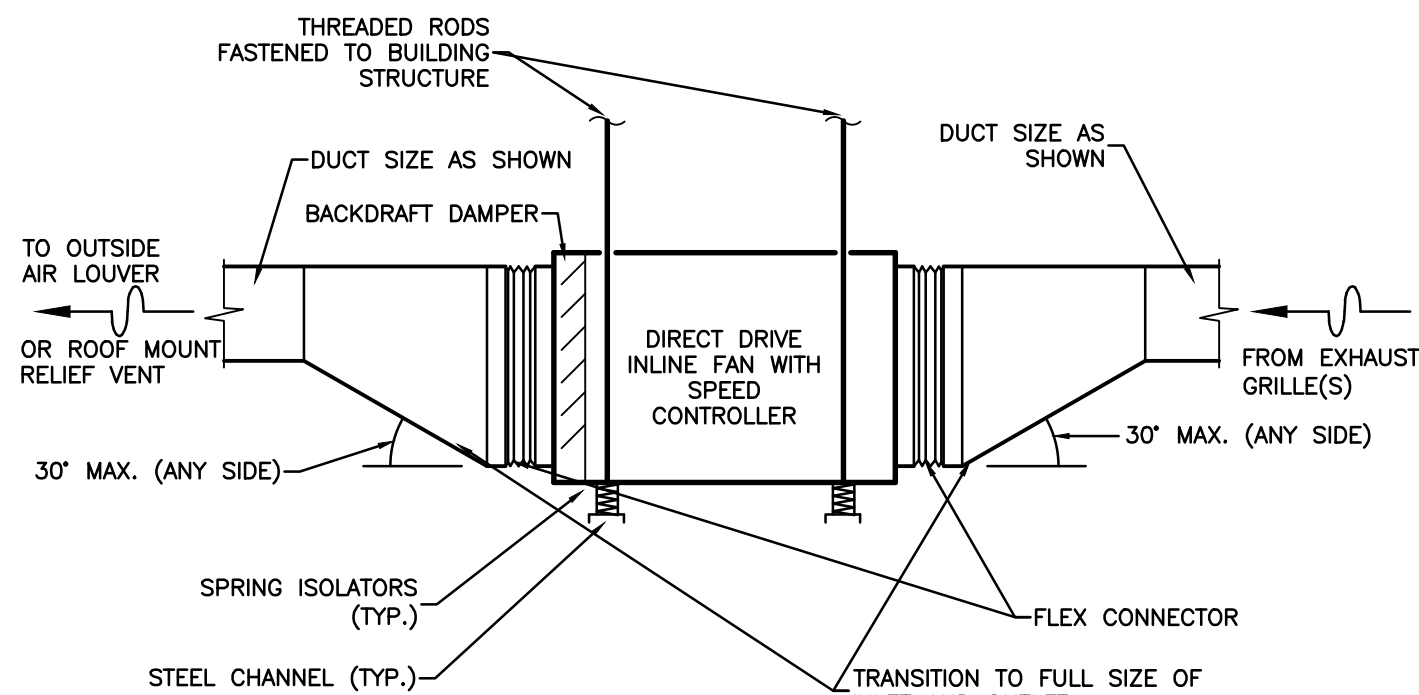
M0.1

- 1 EXISTING MECHANICAL UNIT SHALL BE REMOVED AND NEW INSTALLED IN THE SAME LOCATION. REUSE EXISTING ROOF CURB AND PROVIDE CURB ADAPTER.
- 2 EXISTING EXHAUST FAN AND ROOF CURB TO BE REMOVED AND NEW EXHAUST FAN TO BE PROVIDED IN THE SAME LOCATION. PROVIDE ROOF CURB FOR NEW EXHAUST FAN.
- 3 ROOF MOUNTED EXHAUST OUTLET, REFER TO DETAIL.
- 4 FIRING RANGE VENTILATION SYSTEM SHALL BE PROVIDED BY OTHERS. SYSTEM SHALL MAINTAIN MINIMUM OF 0.05" WC NEGATIVE PRESSURE WHEN IN USE.





LOW PROFILE ROOF MOUNTED EXHAUST OUTLET
NOT TO SCALE



INLINE FAN DETAIL
NOT TO SCALE

AIR DISTRIBUTION DEVICE SCHEDULE

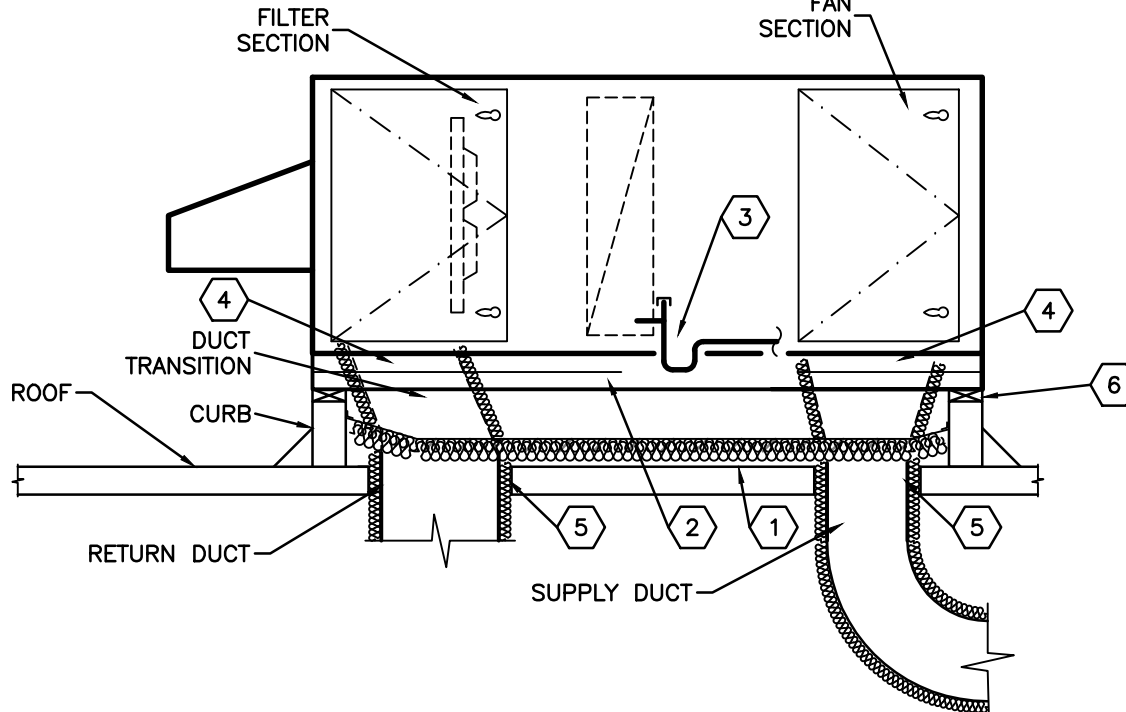
MARK	CD1	CD2	RR1	EG1	XG1	OA1
NECK SIZE	INCH	—	—	22x22	—	16x16
MODULE/FACE SIZE	INCH	24x24/24x24	12x12/12x12	24x24/23x23	—/—	24x24/23x23
MANUFACTURER	—	PRICE	PRICE	PRICE	PRICE	RUSKIN
MODEL	—	AMCD	AMCD	APDDR	80	APDDR
MANUFACTURER	—	J&J	J&J	TITUS	TITUS	TITUS
MODEL NUMBER	—	AL1444-33-TR	AL1444-33-TR	PAR-AA	50F	PAR-AA
CONSTRUCTION	—	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
NOTES	—	1, 2, 3	1, 2, 3	1, 4, 14	1, 2, 4, 5	1, 3, 5

NOTES:

- NECK SIZE OF DEVICE IS EQUAL TO THE DUCT SIZE INDICATED ON THE DRAWING.
- PROVIDE WITH SQUARE TO ROUND ADAPTER. REFER TO PLANS FOR SIZE.
- SEE PLANS FOR SIZE.
- WHERE GRILLE IS INDICATED TO BE LOCATED IN LAY-IN CEILINGS, PROVIDE 24x24 LAY-IN PANEL BORDER, WHITE IN COLOR.
- PAINT INSIDE OF DUCT & GRILLE FLAT BLACK WHEN CAN BE SEEN THROUGH FACE OF GRILLE.
- PROVIDE WITH MANUFACTURER'S STANDARD 14" ROOF CURB AND BIRD SCREEN.
- INTAKE/RELIEF TO BE CONSTRUCTED OF 18 GAUGE METAL OR THICKER, OR IT SHALL COMPLY WITH SSTO 12-99 OR MIAMI-DADE PA 201, USING FLORIDA BUILDING CODE'S TEST PROTOCOL TAS 125-03, SECTION 7.4.2 WHICH REQUIRES MISSILE IMPACT TESTING IN CONFORMANCE WITH FLORIDA BUILDING CODE'S TEST PROTOCOL TAS 201 (IMPACT TEST PROCEDURES)

REMARKS:

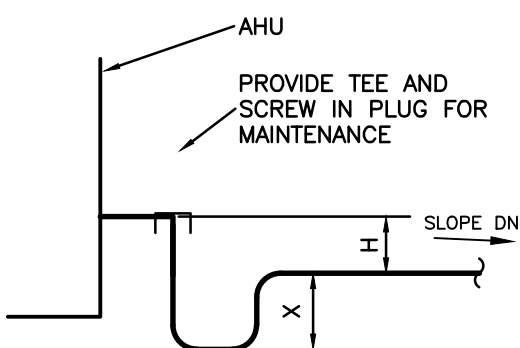
- REFER TO PLANS FOR EXACT LOCATIONS OF ALL DIFFUSERS, GRILLES AND REGISTERS.
- COORDINATE FRAME STYLES WITH CEILING SYSTEM ACTUALLY FURNISHED.
- NC VALUES FOR DIFFUSERS, GRILLES AND REGISTERS SHALL NOT EXCEED 35 WITH A ROOM ABSORPTION RATE OF 10db ie., 10-12 WATTS.
- REFER TO THE MECHANICAL LEGEND FOR A DESCRIPTION OF THE AIR DEVICE MARK.
- WHERE THE CONNECTING DUCT OR PLENUM CAN BE OBSERVED THROUGH THE FACE OF THE GRILLE, THE VISIBLE DUCTWORK SHALL BE PAINTED FLAT BLACK.



DETAIL NOTES:

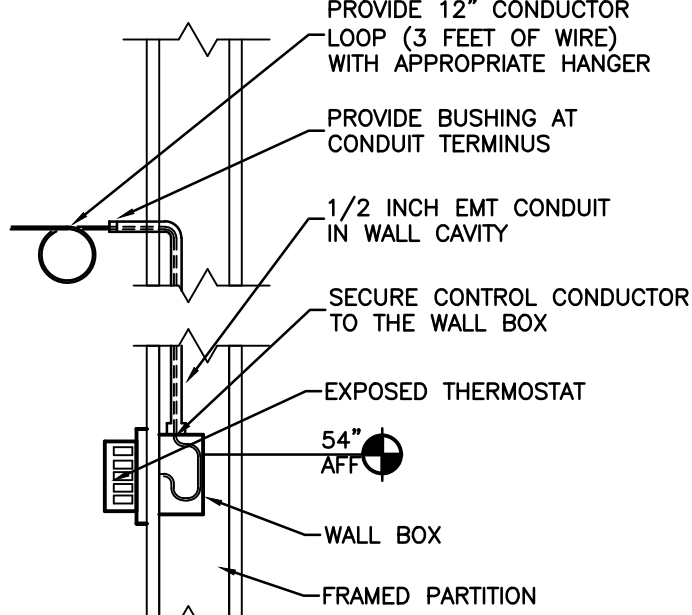
- LINE INSIDE ROOF CURB AT DECK WITH 1 LB LAGGING WITH QUILTED SOUND ABSORBER EQUIVALENT TO SOUND SEAL #810-LAG QFAS, TAPED TO INSIDE CURB WALL, DUCTWORK, AND CONDUIT/PIPING.
- INSTALL CURB AS SPECIFIED. THE CURB SHALL BE SECURED TO THE STRUCTURE AS DIRECTED BY THE STRUCTURAL ENGINEER.
- PROVIDE CONDENSATE TRAP AT UNIT AND ROUTE LINE TO NEAREST DOWN SPOUT OR ROOF DRAIN. PROVIDE LINE ROOF SUPPORT SADDLES.
- IF THE UNIT DOES NOT HAVE INTERNAL VIBRATION ISOLATORS AT THE COMPRESSORS AND THE INDOOR FAN, PROVIDE FLEXIBLE CANVAS DUCT CONNECTORS AT THE SUPPLY AND RETURN DUCT CONNECTIONS.
- OPENINGS THROUGH ROOF DECK WITHIN THE CURB SHALL BE KEPT TO A MINIMUM BUT SHALL NOT COME INTO CONTACT WITH THE DUCT INSULATION.
- PROVIDE VIBRATION ISOLATION CURB. SEE ALTERNATE.

TYPICAL ROOF TOP UNIT
NOT TO SCALE

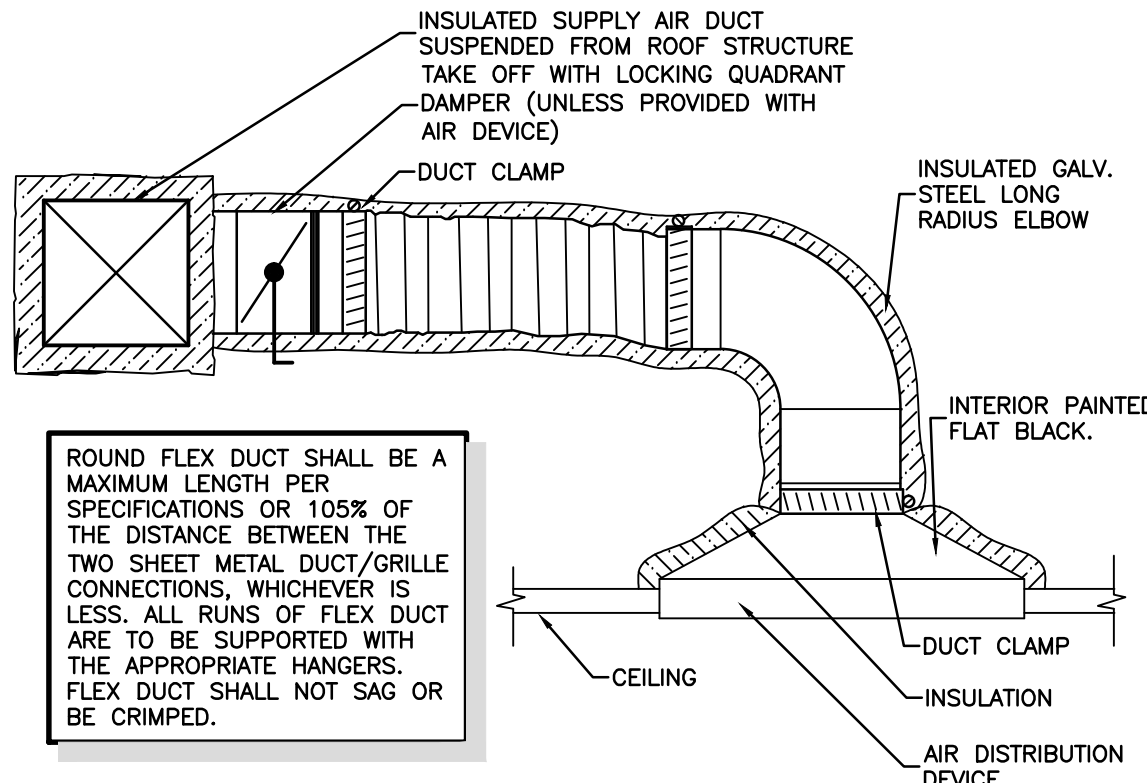


H = TOTAL STATIC PRESSURE
WHERE: H = ONE INCH.
X = H x 0.5
UNDER NEG. STATIC PRESS.

CONDENSATE DRAIN TRAP
NOT TO SCALE



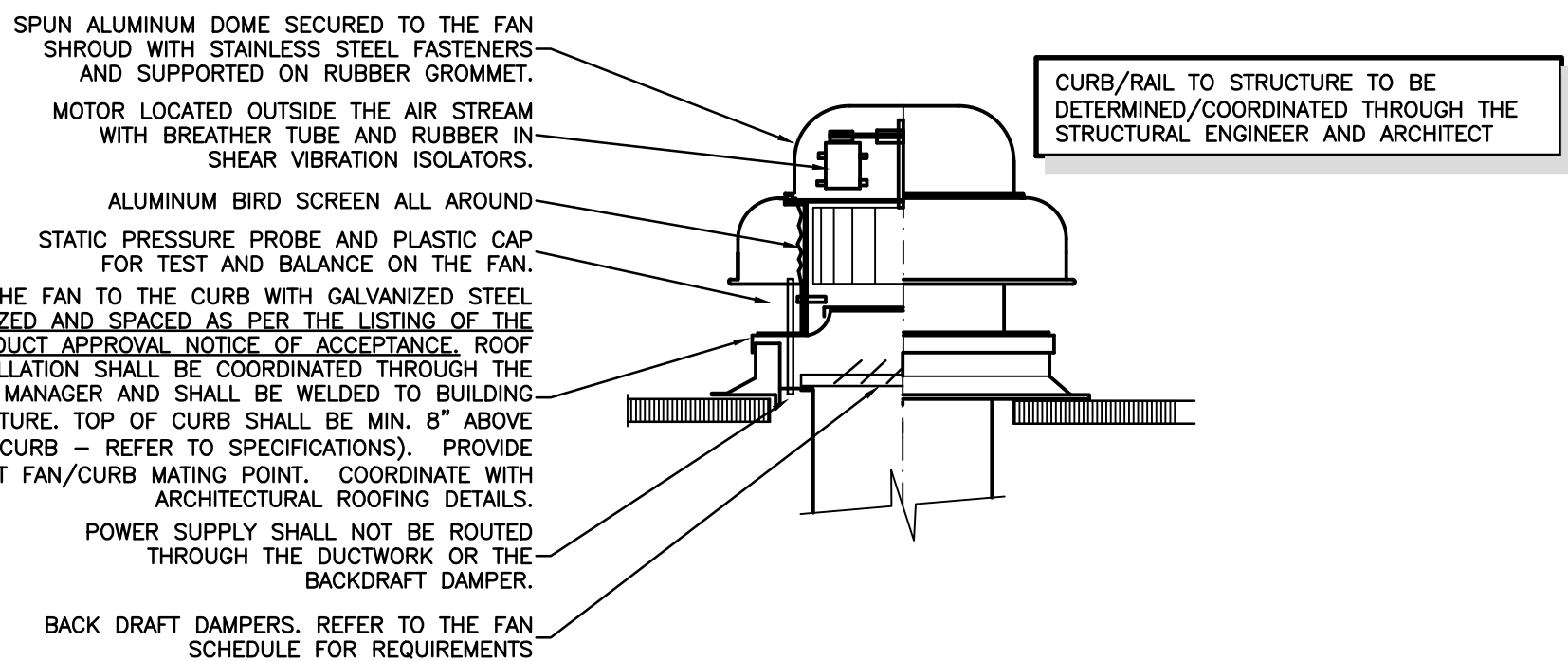
ROOM THERMOSTAT IN GYPSO BOARD WALL
NOT TO SCALE



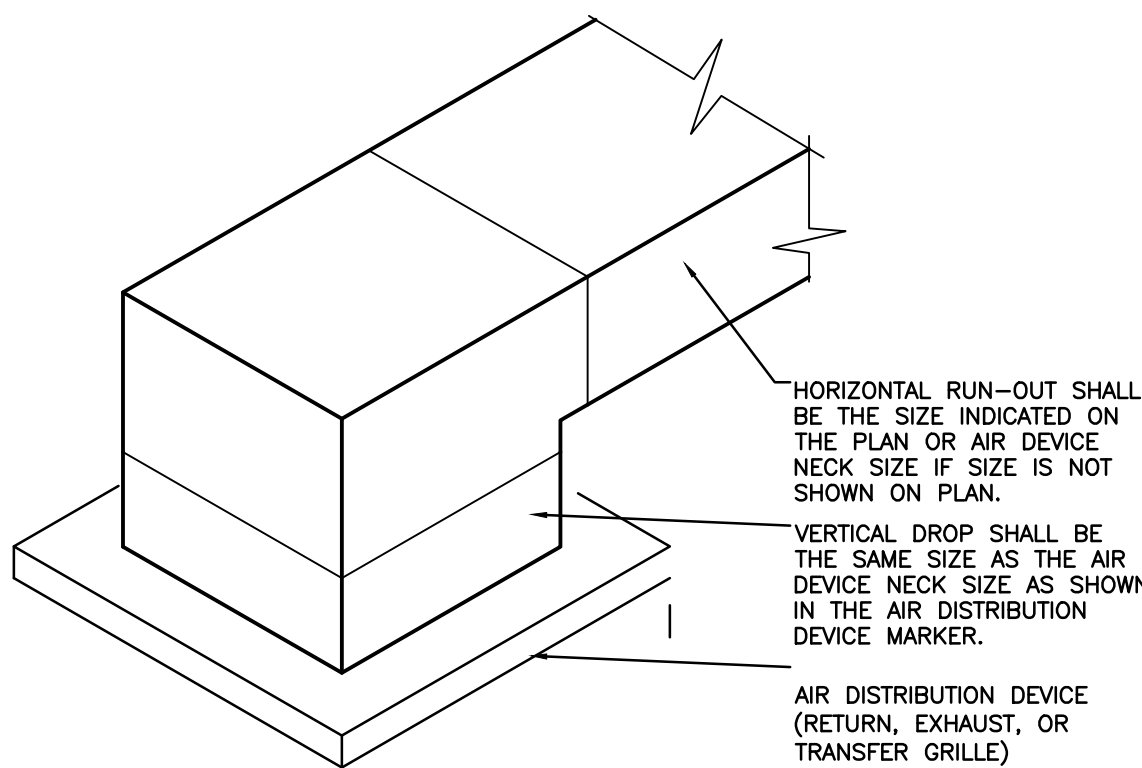
NOTES:

- REFER TO THE AIR DISTRIBUTION DEVICE SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- REFER TO SPECIFICATIONS FOR MAXIMUM FLEXIBLE DUCT LENGTH.
- SUSPEND AIR DEVICE FROM ABOVE, DO NOT SUPPORT FROM CEILING.
- INTERIOR OF DEVICE TO BE PAINTED FLAT BLACK.

FLEXIBLE DUCT RUN-OUTS TO AIR DEVICE
NOT TO SCALE



CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE



RETURN, EXHAUST, AND TRANSFER DUCT CONNECTIONS
NOT TO SCALE

FAN SCHEDULE

MARK	SERVES	CFM	DRIVE	FAN RPM	S.P. IN. H ₂ O	ELECTRICAL VOLT/ø/Hz	MOTOR HP BHP/HP(WATTS)	SONES	MANUFACTURER	MODEL NUMBER	MOUNTING LOCATION	WEIGHT	INTERLOCK	NOTES
EF1	FIRING RANGE TOILET	100	DIRECT	950	0.375	120/1/60	(80)	2.7	GREENHECK	SP-B110	CEILING	11	LIGHTS	1,2,3,5
EF2	FIRING RANGE TOILET	100	DIRECT	950	0.375	120/1/60	(80)	2.7	GREENHECK	SP-B110	CEILING	11	LIGHTS	1,2,3,5
EF3	FIRING RANGE JANITOR	75	DIRECT	767	0.375	120/1/60	(80)	1.5	GREENHECK	SP-B110	CEILING	11	LIGHTS	1,2,3,5
EF4	CLEANING ROOM	150	DIRECT	1,681	0.375	120/1/60	0.03 / 0.033	5.5	GREENHECK	SQ-70-VG	ABOVE CEILING	34	LIGHTS	1,2,3,5
EF5	ARMORY	150	DIRECT	1,681	0.375	120/1/60	0.03 / 0.033	5.5	GREENHECK	SQ-70-VG	ABOVE CEILING	34	CONTINUOUS	1,2,3,5
EF6	LOCKER ROOMS	525	DIRECT	1,620	0.500	120/1/60	0.110 / 0.250	8.1	GREENHECK	G-090-VG	ROOF CURB	26	RT15	1,2,3,4,5

NOTES:

- PROVIDE WITH FACTORY DISCONNECT.
- PROVIDE REQUIRED CONTACTS AND RELAYS FOR INTERLOCKING FAN WITH LIGHTS, TIME CLOCK OR RTU AS SCHEDULED.
- PROVIDE WITH ELECTRIC FAN SPEED CONTROL.
- PROVIDE WITH 14" ROOF CURB (REFER TO SPECIFICATIONS). INSTALLATION SHALL BE COORDINATED THROUGH THE CONSTRUCTION MANAGER. PROVIDE GASKET SEAL BETWEEN FAN AND CURB.
- PROVIDE BACKDRAFT DAMPER.

CONTINUOUS = FAN SHALL RUN CONTINUOUSLY DURING OCCUPANCY.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	AREA SERVED	TOTAL COOLING LOAD (NET MBH)	SENSIBLE COOLING LOAD (NET MBH)	TOTAL SUPPLY AIR FLOWRATE (CFM)	OUTSIDE AIR FLOWRATE (CFM)	OUTSIDE AIR TEMPERATURE (°F DB/°F WB)	ENTERING COIL AIR TEMP. (°F DB/°F WB)	LEAVING COIL AIR TEMP. (°F DB/°F WB)	EXTERNAL STATIC PRESSURE	ELECTRICAL V/ø/HZ	COMPRESSORS (QTY @ RLA)	INDOOR FANS (QTY @ BHP)	OUTDOOR FANS (QTY@BHP)	HEAT (MBH)	ELECTRIC HEAT (KW/STEPS)	UNIT MIN. CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION (FUSE)	HOT GAS REHEAT CAPACITY (NET MBH)	REHEAT AIR TEMP ENT/LVG (°F DB/°F WB)	FILTER TYPE & EFFICIENCY	MINIMUM EFFICIENCY SEER / EER / IPLV	REFRIGERANT	UNIT WEIGHT LBS. (CURB NOT INCL.)	UNIT DIMENSIONS (LXWXH)	MANUFACTURER	MODEL NUMBER	NOTES
RT01	SHOOTING RANGE ANCILLARY SPACES	89.8	60.6	2,400	580	91.0/80.0	79.1/67.0	55.7/54.7	1.30	208/3/60	2Ø15.9	1Ø1.44	1Ø0.75	92.2	27 /2	81.0	90.0	—	55.0/82.3	Merv8	~11.2/11.4	R-410	1,228	88.5x53.25x47.0	TRANE	THC092	1-23
RT15	GYM	165.9	115.6	4,800	765	91.0/80.0	78.0/65.6	54.0/53.0	1.50	208/3/60	2Ø25.0	1Ø3.36	2Ø1.0	184.4	54 /4	155.0	175.0	—	55.4/77.6	Merv8	~11.0/11.2	R-410	2,293	122x84.5x64.5	TRANE	THD180	1-23

NOTES:

- PROVIDE UNIT WITH MICROPROCESSOR CONTROLS.
- PROVIDE FOIL FACE INTERNAL CABINET INSULATION.
- PROVIDE HINGED ACCESS DOOR WITH TOOL-LESS HANDLES.
- PROVIDE BELT DRIVE FANS.
- PROVIDE STAINLESS STEEL IAQ DRAIN PAN.
- PROVIDE R410A REFRIGERANT (NO EXCEPTIONS).
- PROVIDE FREEZE STATS ON EVAPORATOR COILS.
- PROVIDE UNIT WITH FACTORY INSTALLED TXV OR EXV. OTHER EXPANSION DEVICES ARE NOT ACCEPTABLE.
- PROVIDE BOTH HIGH PRESSURE AND LOW PRESSURE REFRIGERANT SAFETY SWITCHES.
- PROVIDE ANTI-CYCLE TIMER, TIME DELAY RELAY AND HEAD PRESSURE CONTROL.
- PROVIDE LOW AMBIENT CONTROL TO 35°F.
- PROVIDE VINYL COATED COIL GUARD.
- PROVIDE MANUAL OUTDOOR AIR DAMPER.

- PROVIDE WITH MOTORIZED OUTDOOR AIR DAMPER. OUTDOOR AIR DAMPER SHALL BE INTERLOCKED WITH THE SYSTEM TO PROVIDE COMPLETE CLOSURE WHEN SYSTEM IS DISABLED AND/OR DURING UNOCCUPIED TIMES.
- NEW UNIT SHALL REUSE EXISTING ROOF CURB. PROVIDE CURB ADAPTOR AS REQUIRED. CURB ADAPTOR MANUFACTURE SHALL PROVIDE ENGINEERED DRAWINGS FOR HW2 REQUIREMENTS SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER. VERIFY THAT CURB IS ATTACHED TO STRUCTURE IN ACCORDANCE WITH DETAIL. ATTACH UNIT TO CURB IN ACCORDANCE WITH DETAIL.
- PROVIDE WITH 2" 30% FILTERS.
- PROVIDE SINGLE POINT POWER CONNECTION. COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE UNIT MOUNTED NON-FUSED DISCONNECT SWITCH.
- UNIT SELECTION SHALL BE MADE WITH CONDENSING AMBIENT TEMPERATURE @ 95°F. PROVIDE FACTORY MOUNTED CONTROLS.
- PROVIDE PROGRAMMABLE THERMOSTAT EQUIVALENT TO VENSTAR MODEL T2900SCH. THE THERMOSTAT SHALL AN OVER-RIDE BUTTON TO OPERATE THE AC SYSTEM DURING UNOCCUPIED TIMES (WEEKENDS, HOLIDAYS, AND SO ON) FOR PERIODS OF 2 HOURS. THIS DEVICE TO BE PROGRAMMED TO OPERATE THE SUPPLY FAN CONTINUOUSLY DURING OCCUPIED HOURS.
- COIL SPACING SHALL NOT EXCEED 15 FINS PER INCH.
- UNIT SHALL BE LOCATED TO ENSURE NO PLUMBING VENTS OR BUILDING EXHAUST AIR OUTLETS ARE WITHIN A 10 FT. RADIUS AROUND FRESH AIR INTAKE.
- PROVIDE UNIT WITH FACTORY MOUNTED HOT GAS REHEAT WITH DUCT MOUNTED HUMIDITY SENSOR AND ALL RELATED CONTROLS.

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FIRING RANGE AND WORKOUT GYM
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PROJECT #: 1626-00

DISTRIBUTION DATE
PERMIT SET 1/16/2017

HVAC SCHEDULES
AND DETAILS

M2.1

Drawing File: I:\16000\16005\001\16005a.dwg E01
Plotted by: Andrew Jan 16, 2017 - 9:17pm

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED ABOVE CEILING OR BEHIND FINISHED WALL	N/A
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED BELOW FINISHED FLOOR OR UNDERGROUND	N/A
	RACEWAY EXPOSED ON WALL OR CEILING	N/A
	HOMERUN TO PANELBOARD - LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT, MINIMUM 3/4" CONDUIT. NOTE: ANY HOMERUN WITHOUT FURTHER DESIGNATION INDICATES TWO #12 AWG AND #12 AWG EQUIPMENT GROUND. PC OUTLET REQUIRES SEPARATE NEUTRAL, MIN. #10 AWG. DEDICATED CIRCUIT REQUIRES SEPARATE NEUTRAL	N/A
	RACEWAY RISER, UP OR DOWN AS NOTED	N/A
	CONDUIT CAPPED	N/A
	LED DOWNLIGHT LUMINAIRE, LETTER INDICATES TYPE	CEILING - SEE FIXTURE SCHEDULE
	LED DOWNLIGHT LUMINAIRE WITH EMERGENCY BATTERY PACK, LETTER INDICATES TYPE.	CEILING - SEE FIXTURE SCHEDULE
	FLUORESCENT LUMINAIRE, LETTER INDICATES TYPE. 1 = CKT. NO. , o = SWITCH DESIGNATION, NL = NIGHT LIGHT	CEILING - SEE FIXTURE SCHEDULE
	FLUORESCENT LUMINAIRE WITH EMERGENCY BATTERY PACK, LETTER INDICATES TYPE.	CEILING - SEE FIXTURE SCHEDULE
	LED STRIP LIGHT, LETTER INDICATES TYPE.	CEILING - SEE FIXTURE SCHEDULE
	LED WALL MOUNT LUMINAIRE, LETTER INDICATES TYPE	WALL - SEE FIXTURE SCHEDULE
	EXIT LIGHT, LETTER INDICATES TYPE SINGLE OR DUAL FACED AS INDICATED ON DRAWINGS	SEE FIXTURE SCHEDULE
	OCCUPANCY SENSOR. OS = OCCUPANCY TYPE (AUTO ON/AUTO OFF) VS = VACANCY TYPE (MANUAL ON/AUTO OFF)	CEILING
	MOTOR/HP RATED TOGGLE SWITCH SIZED PER MOTOR MANUFACTURER'S RECOMMENDATION, MINIMUM 20 AMP.	SURFACE, ADJACENT TO OR ON MOTOR
	LIGHTING CONTROL WALL SWITCH WITH 0-10V DIMMING CONTROL. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH SPODM-D, OR APPROVED EQUAL.	M.H. 48" AFF TO TOP
	SINGLE POLE SWITCH	M.H. 48" AFF TO TOP
	THREE WAY SWITCH	M.H. 48" AFF TO TOP
	PUSH BUTTON WALL SWITCH/OCCUPANCY SENSOR. AUTO ON/AUTO OFF. SENSOR SWITCH #WSD-PDT, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
	LIGHTING CONTROL WALL SWITCH. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH #SPODM-SA, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
	THREE WAY LIGHTING CONTROL WALL SWITCH. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH #SPODM-SA-3X, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
	WALL SWITCH VACANCY SENSOR. PUSH BUTTON MANUAL ON/AUTO OFF. LETTER INDICATES FIXTURE GROUPING BY SWITCH. SENSOR SWITCH #WSD-PDT-SA, OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
	SINGLE RECEPTACLE - 120VAC	M.H. 16" AFF TO BOTTOM
	DUPLEX RECEPTACLE - 120VAC, "WP" DENOTES WEATHERPROOF "GFI" DENOTES GROUND FAULT PROTECTION.	M.H. 16" AFF TO BOTTOM
	DUPLEX RECEPTACLE - 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
	DOUBLE DUPLEX RECEPTACLE - 120VAC	M.H. 16" AFF TO BOTTOM
	DOUBLE DUPLEX RECEPTACLE - 120VAC	M.H. 42" AFF TO BOTTOM
	30 AMP, 208 VOLT, SINGLE PHASE RECEPTACLE NEMA 6-30R, OR AS INDICATED.	M.H. 42" AFF TO BOTTOM
	SPECIAL RECEPTACLE, AMPERAGE, NEMA TYPE AS INDICATED.	M.H. 42" AFF TO BOTTOM
	4"x4"x2-1/8" DEEP OUTLET BOX FOR COMMUNICATIONS WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE. CABLING AND DATA JACKS BY OWNER.	M.H. 16" AFF TO BOTTOM OR AS NOTED (VERIFY MOUNTING HEIGHTS WITH OWNER PRIOR TO ROUGH-IN AT ALL COUNTER LOCATIONS)
	COMBINATION COMMUNICATION/POWER FLOOR BOX. ROUND FULLY ADJUSTABLE, DEEP, TWO-GANG WITH BRASS FLANGE.	FLUSH MOUNTED IN FLOOR
	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	AS NOTED
	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	WALL MOUNTED
	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX, FOR HAND DRYER ELECTRICAL CONNECTION.	M.H. 44" AFF TO CENTER

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS.

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	TV OUTLET BOX WITH TV JACK, 3/4" CONDUIT W/BUSHING STUBBED INTO CEILING SPACE.	M.H. 60" AFF TO BOTTOM OR AS NOTED
	120/208V. PANELBOARD	M.H. 6'-0" TO TOP OR AS NOTED
	NON-FUSIBLE SAFETY SWITCH	M.H. 6'-0" TO TOP OR AS NOTED
	FUSIBLE SAFETY SWITCH	M.H. 6'-0" TO TOP OR ON EQUIPMENT
	COMBINATION MOTOR STARTER	AS NOTED
	MAGNETIC MOTOR STARTER	AS NOTED
	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	AS NOTED
	MOTOR CONNECTION	AS NOTED
	ELECTRIC HEAT STRIP	IN VAV BOX INDICATED
	MOMENTARY SWITCH WITH RED 2" MUSHROOM HEAD BUTTON, WITH COVER, OR AS NOTED	M.H. 48" A.F.F. TO TOP OR AS NOTED
	FIRE ALARM MANUAL PULL STATION	M.H. 48" AFF TO TOP
	FIRE ALARM REMOTE INDICATOR	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
	FIRE ALARM FLOW SWITCH	AS NOTED
	FIRE ALARM TAMPER SWITCH	AS NOTED
	FIRE ALARM MAGNETIC DOOR HOLDER COORDINATE MOUNTING HEIGHT WITH DOOR SUPPLIER	WALL MOUNTED
	FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
	FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
	FIRE ALARM RELAY TO SHUT DOWN AIR HANDLER UNITS	SEE PLANS
	FIRE ALARM DUCT DETECTOR REMOTE TEST STATION	M.H. 64" AFF TO BOTTOM
	FIRE ALARM SMOKE DETECTOR IN A/C DUCT	DUCT MOUNTED (SEE MECH. DWGS.)
	FIRE ALARM SPEAKER (VOICE SYSTEM), LETTER IN CIRCLE INDICATES TYPE: B=BELL, C=CHIME, H=HORN, S=SPEAKER	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
	FIRE ALARM STROBE LIGHT ONLY	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
	FIRE ALARM SPEAKER (VOICE SYSTEM) WITH STROBE, C=CHIME, B=BELL, H=HORN, S=SPEAKER xx = CANDELA RATING (ASSUME 75 CANDELA MINIMUM U.O.N.)	TOP 6" BELOW CEILING OR 80" A.F.F. WHICHEVER IS LOWER
	FIRE ALARM TROUBLE BELL (SEE F.A. ONE LINE DIAGRAM)	AS NOTED
	FIRE ALARM TERMINAL CABINET	M.H. 6'-6" AFF TO TOP
	FIRE ALARM ANNUNCIATOR PANEL	M.H. 4'-6" AFF TO TOP
	FIRE ALARM MAIN CONTROL PANEL	M.H. 6'-6" AFF TO TOP
	END OF LINE RESISTOR	SEE PLANS

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS.

ELECTRICAL LEGEND (EXISTING DEVICES)		
SYMBOL	DESCRIPTION	MOUNTING
	EXISTING LOCATION FOR DUPLEX RECEPTACLE- 120VAC	M.H. 16"/24" AFF TO BOTTOM
	EXISTING LOCATION FOR DUPLEX RECEPTACLE- 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
	EXISTING/REINSTALLED FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
	EXISTING/REINSTALLED FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
	EXISTING/REINSTALLED FIRE ALARM PULL STATION	WALL MOUNTED
	EXISTING/REINSTALLED FIRE ALARM INDICATION APPLIANCE	WALL MOUNTED
	EXISTING PANEL LOCATION	WALL MOUNTED
	EXISTING DISCONNECT LOCATION	WALL MOUNTED
	EXISTING CONTACTOR/CONTROLLER	N/A

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS. ALL DEVICES SHOWN AS EXISTING, ARE TO REMAIN UNLESS OTHERWISE NOTED

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	GW	GYPSUM WALL BOARD
AFG	ABOVE FINISHED GRADE	H.D.	HAND DRYER
E	EXISTING	INT	INTERCOM/PAGING CABINET
ETR	EXISTING TO REMAIN	MTG	MOUNTING
EW	ELECTRIC WATER COOLER	MTD	MOUNTED
EW	ELECTRIC WATER HEATER	M.H.	MOUNTING HEIGHT
EG	EQUIPMENT GROUND	N/A	NOT APPLICABLE
ESB	ENERGY SAVING BALLAST	PROJ	PROJECTOR LOCATION
EXP	EXPLOSION PROOF	U.O.N.	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	R	REMOVE
FATC	FIRE ALARM TERMINAL CABINET	RL	RELOCATED
GFI	GROUND FAULT PROTECTION	WP	WEATHER PROOF
G, GND	GROUND		

VOLTAGE DROP

PROVIDE LARGER CONDUCTOR SIZES WHERE NECESSARY ON FEEDER AND BRANCH CIRCUIT CONDUCTORS IN ORDER TO COMPLY WITH THE 2015 FLORIDA ENERGY CONSERVATION CODE, CHAPTER 4, SECTION C405.7.3.

ELECTRICAL GENERAL NOTES:

(THESE NOTES APPLY TO ALL SHEETS)

- ALL ELECTRICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
 - FLORIDA BUILDING CODE (FBC) 5TH EDITION (2014): THIS CODE INCLUDES THE 2014 FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC, BUILDING CHAPTER 35; FBC, PLUMBING CHAPTER 14; FBC, MECHANICAL CHAPTER 15; FBC, FUEL GAS CHAPTER 8, FBC, ENERGY CONSERVATION CHAPTER 5.) (EFFECTIVE JUNE 30, 2015)
 - 5TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2014)
 - 2011 NATIONAL ELECTRIC CODE
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS TO GAIN KNOWLEDGE OF THE SCOPE OF WORK INVOLVED.
- "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- IN GENERAL, THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOULD NOT BE SCALED. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- ELECTRICAL INSTALLATION SHALL BE CLOSELY COORDINATED WITH ALL OTHER TRADES. REVIEW THE ENTIRE SET OF DOCUMENTS FOR COORDINATION. NO COST SHALL BE ASSOCIATED WITH ILL-TIMED INSTALLATION INCLUDING ANY REPAIRS OR REPLACEMENTS.
- ALL CONDUITS AND BOXES SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT RUNS ARE SCHEMATIC IN NATURE. EXACT ROUTING TO BE DETERMINED IN THE FIELD UNLESS OTHERWISE NOTED.
- APPLY A BITUMASTIC COATING FOR ALL CONDUITS PENETRATING FLOOR SLABS FROM BELOW GRADE.
- PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, ETC. FOR A COMPLETE INSTALLATION.
- PATCH, REPAIR AND REPAINT ALL WALLS THAT HAVE BEEN DAMAGED DUE TO ELECTRICAL ROUGH-IN. REMOVE ANY UNUSED CONDUIT AND WIRE.
- PROVIDE FIRE-STOPPING AT ALL FIRE WALL PENETRATIONS. USE A U.L. APPROVED SYSTEM LISTED FOR THE ASSOCIATED INSTALLATION.
- ALL CONDUCTORS SHALL BE STRANDED COPPER, THHN/THWN, MINIMUM #12 AWG. ALL CONDUCTORS SHALL BE IN CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO A MAXIMUM OF 6'-0" IN LENGTH.
- MC CABLE OR OTHER PREMANUFACTURED CABLING SHALL NOT BE USED UNLESS APPROVED BY THE OWNER AND ENGINEER.
- ALL CIRCUITS SHALL CONTAIN A SEPARATE, GREEN, COPPER GROUNDING CONDUCTOR.
- ALL RECEPTACLES SHALL HAVE A GROUND TERMINAL.
- WHEN REUSING OR EXTENDING EXISTING CIRCUITS, VERIFY ALL CIRCUIT NUMBERS AND VERIFY ANY EXISTING LOAD. CIRCUITS MAY BE PICKED UP AT AN EXISTING JUNCTION BOX IF AVAILABLE RATHER THAN PROVIDING A SEPARATE HOMERUN TO A PANEL.
- RECESSED LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE AT (4) POINTS. DO NOT SUPPORT FIXTURES FROM THE CEILING GRID, MECHANICAL PIPING, DUCTWORK, CONDUIT OR OTHER NON-STRUCTURAL BUILDING MEMBERS. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR INSTALLATION.
- THE COLOR OF ALL RECEPTACLES, TOGGLE SWITCHES AND COVERPLATES SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ORDERING.
- PANELBOARDS SHALL BE ACCURATELY LABELED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.
- BRANCH CIRCUIT SHALL NOT BE RUN UNDERGROUND UNLESS SPECIFIED OR APPROVED BY THE OWNER AND ENGINEER. ROUTE CONCEALED IN WALL AND ABOVE CEILINGS. DISTRIBUTION FEEDERS FROM THE MAIN SWITCHBOARD MAY BE RUN UNDERGROUND.
- PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
- PROVIDE HANDLE TIES FOR 2 OR MORE SINGLE POLE WITH SHARED NEUTRALS TO COMPLY WITH NEC 210.4 (B)
- SEE SPECIFICATIONS

ELECTRICAL DRAWING INDEX

E0.1	ELECTRICAL LEGEND, AND GENERAL NOTES
E0.2	LUMINAIRE SCHEDULE AND CUT SHEETS
E1.1	LIGHTING PLANS - FIRING RANGE/GYM
E2.1	POWER & DATA PLANS - FIRING RANGE/GYM
E3.1	FIRE ALARM & SYSTEMS PLANS - FIRING RANGE/GYM
E4.1	ELECTRICAL RISER DIAGRAMS
E5.1	ELECTRICAL SCHEDULES - FIRING RANGE
E5.2	ELECTRICAL SCHEDULES - GYM
E6.1	ELECTRICAL DETAILS

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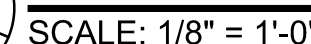
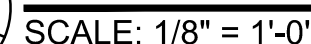
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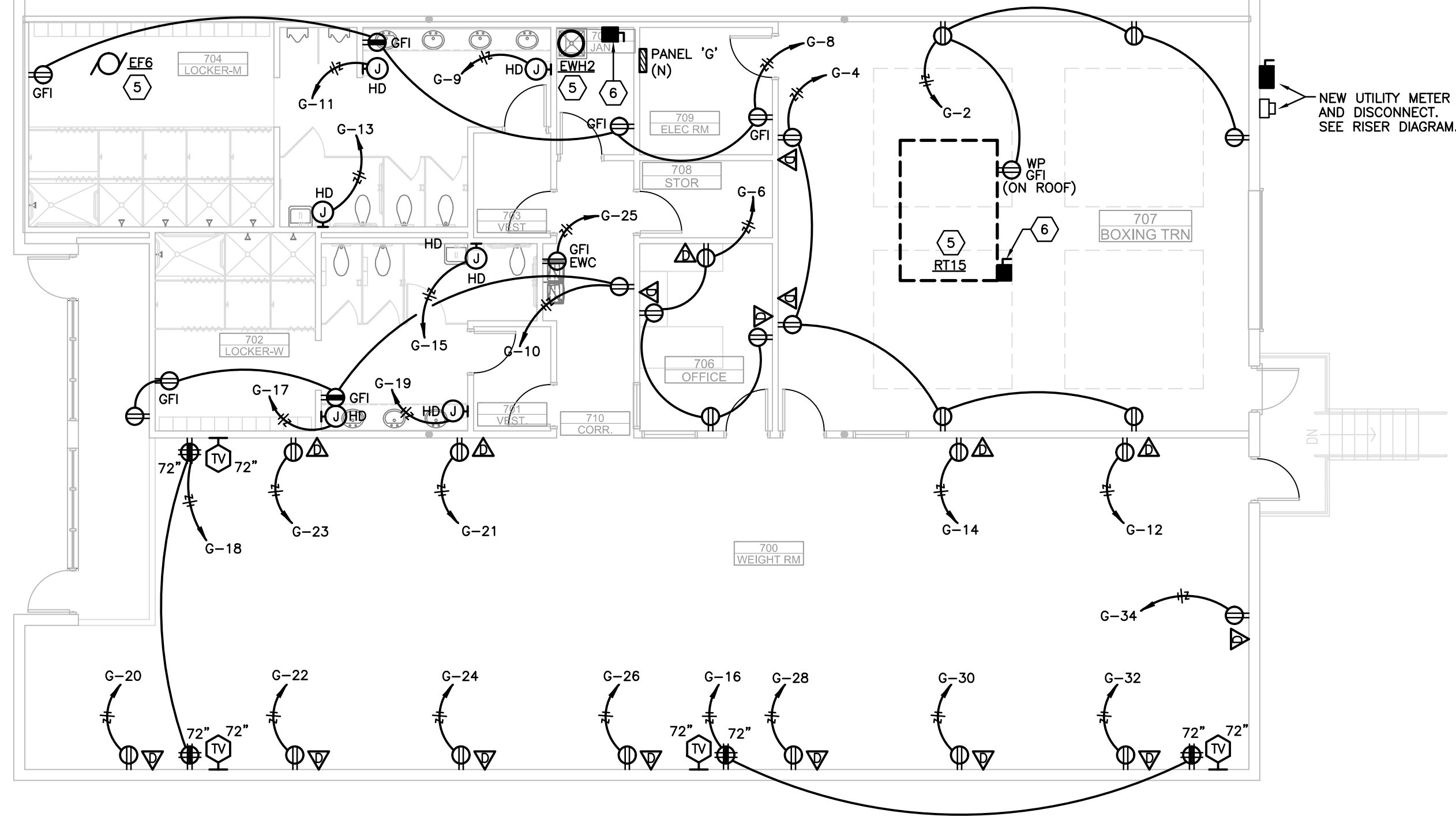
ELECTRICAL LEGEND,
AND GENERAL NOTES

E0.1

E1.1



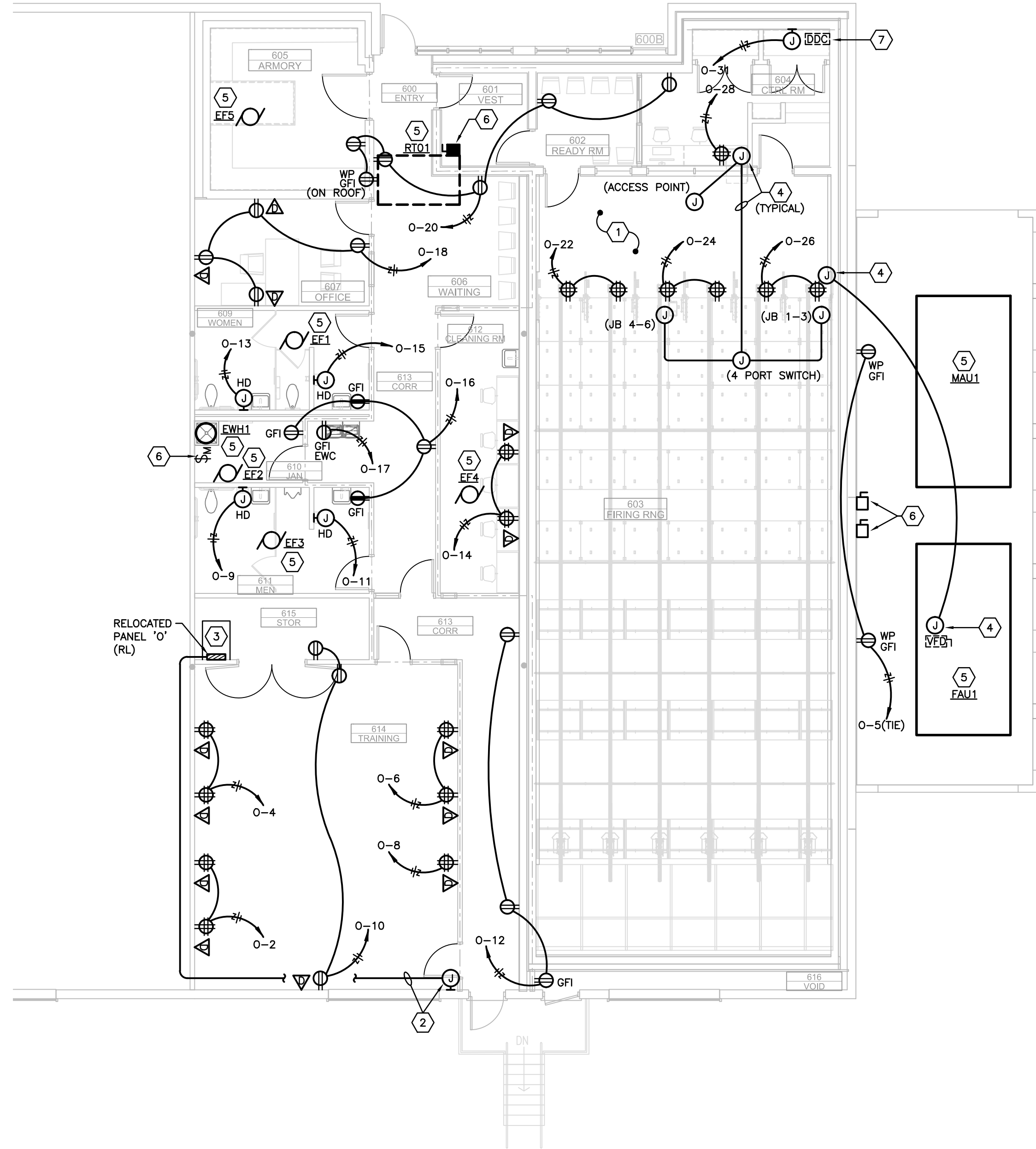
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PARTIAL POWER PLAN - GYM
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

DEMOLITION GENERAL NOTES:

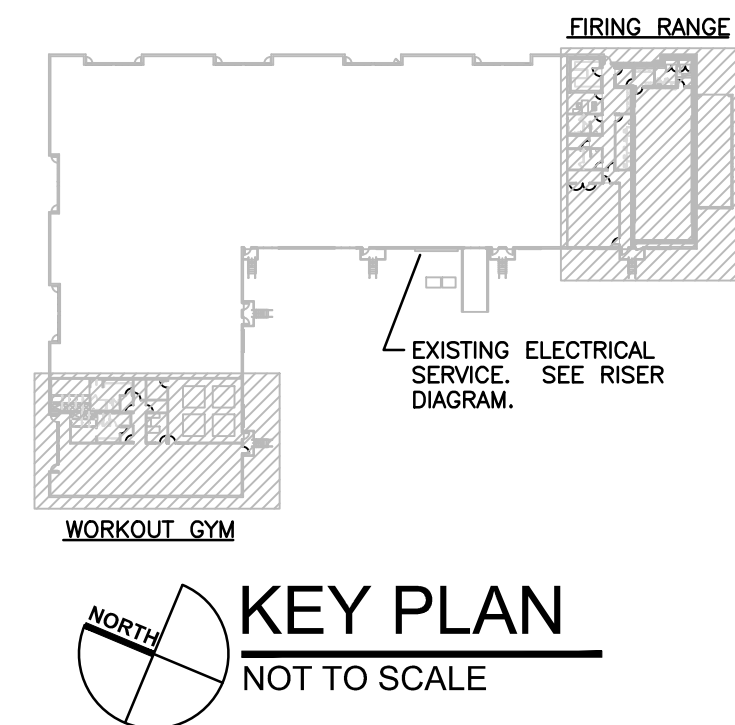
1. REMOVE ABANDONED WIRING ENTIRELY UNLESS NOTED AND REMOVE ACCESSIBLE RACEWAYS.
2. CUT, CAP AND PATCH OVER CONCEALED CONDUITS AT POINT OF EMERGENCE.
3. EXISTING EQUIPMENT AND MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED EXCEPT WHERE SPECIFICALLY NOTED.
4. PROVIDE ALL REQUIRED DEMOLITION ASSOCIATED WITH THE NEW WORK AND REMOVE ALL EQUIPMENT, RACEWAYS, BOXES, WIRING, ETC. THAT IS RENDERED OUT OF SERVICE OR OBSOLETE.
5. DISPOSE OF SCRAP AND DEBRIS.
6. MAINTAIN ELECTRICAL CONTINUITY TO EQUIPMENT/DEVICES WHICH SHALL REMAIN.
7. WHERE EQUIPMENT IS REMOVED, CONTRACTOR SHALL ALSO REMOVE ASSOCIATED CONDUIT, CONDUCTORS, AND MOUNTING HARDWARE. EXCEPTION TO THIS REQUIREMENT MAY BE WHERE CONTRACTOR PROPOSES TO RE-USE CONCEALED CONDUIT IF APPROVED IN ADVANCE BY THE OWNER/ENGINEER.



PARTIAL POWER PLAN - FIRING RANGE
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

KEYED NOTES

1. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES SHOWN IN FIRING RANGE WITH MANUFACTURER'S GUIDELINES PRIOR TO PRICING AND ROUGH-IN.
2. PROVIDE SURFACE MOUNT JUNCTION BOX SIZED PER NEC AND SPLICE/EXTEND EXISTING FEEDER AS REQUIRED TO RELOCATE PANEL 'O' AS SHOWN.
3. PROVIDE CAUTION MARKINGS ON FLOORING TO INDICATE REQUIRED WORKING CLEARANCE FOR ELECTRICAL PANEL.
4. PROVIDE ALL REQUIRED OUTLET BOXES AND CONDUIT FOR A COMPLETE INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR FURTHER INSTRUCTION PRIOR TO PRICING AND ROUGH-IN. PROVIDE ALL CABLING INDICATED ON FIRING RANGE MANUFACTURER'S INSTALLATION DRAWINGS.
5. REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT SHOWN ON THIS PLAN.
6. MOUNT DISCONNECT IN A MANNER TO PROVIDE MINIMUM OF 3'-0" WORKING CLEARANCE. DO NOT MOUNT DIRECTLY ON HVAC UNIT. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED.
7. CONTRACTOR TO PROVIDE OUTLET BOXES FOR REQUIRED DATA CONNECTIONS TO DDC CONTROLS (PROVIDED WITH UNIT). DATA CABLING BY OTHERS.



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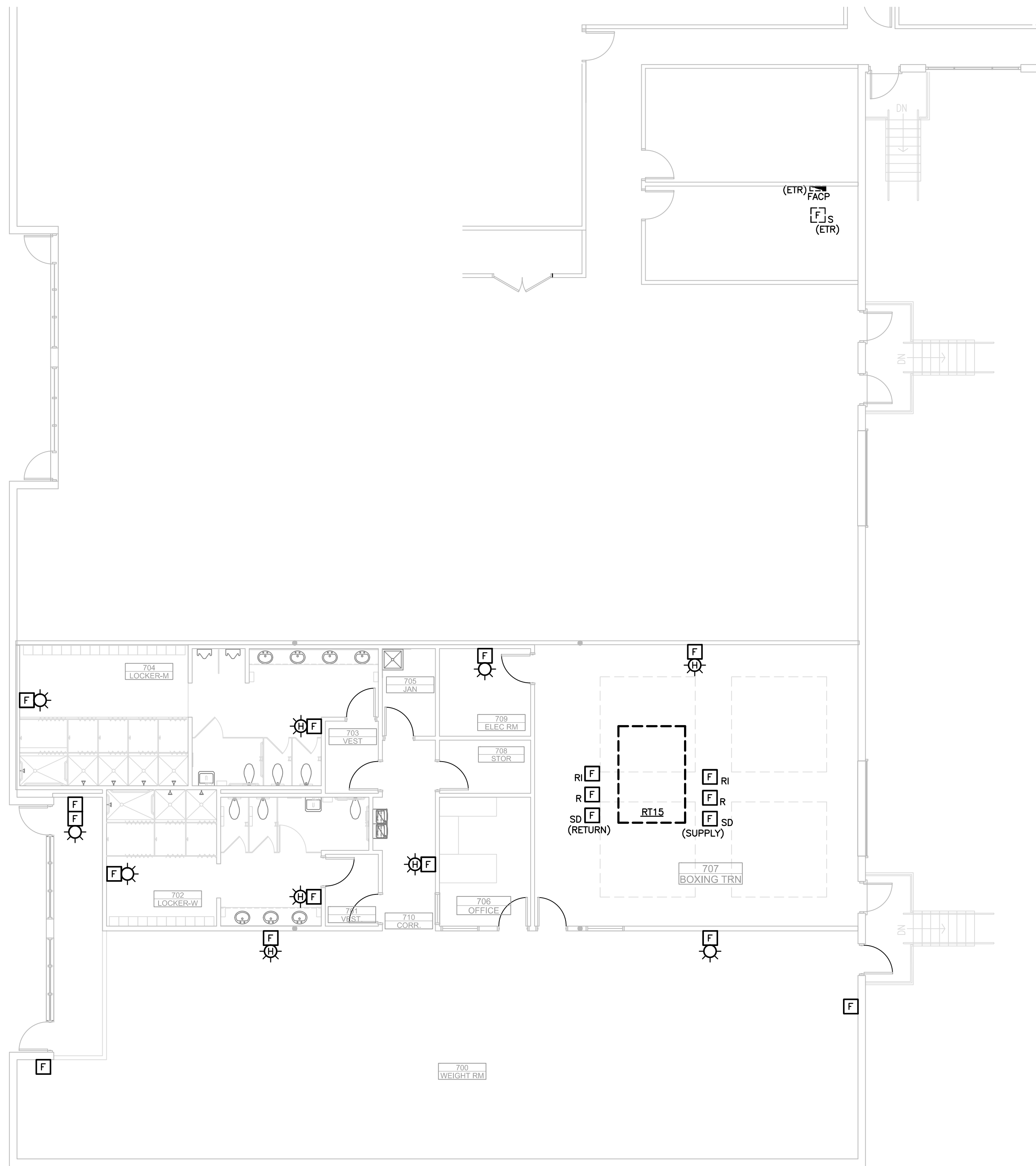
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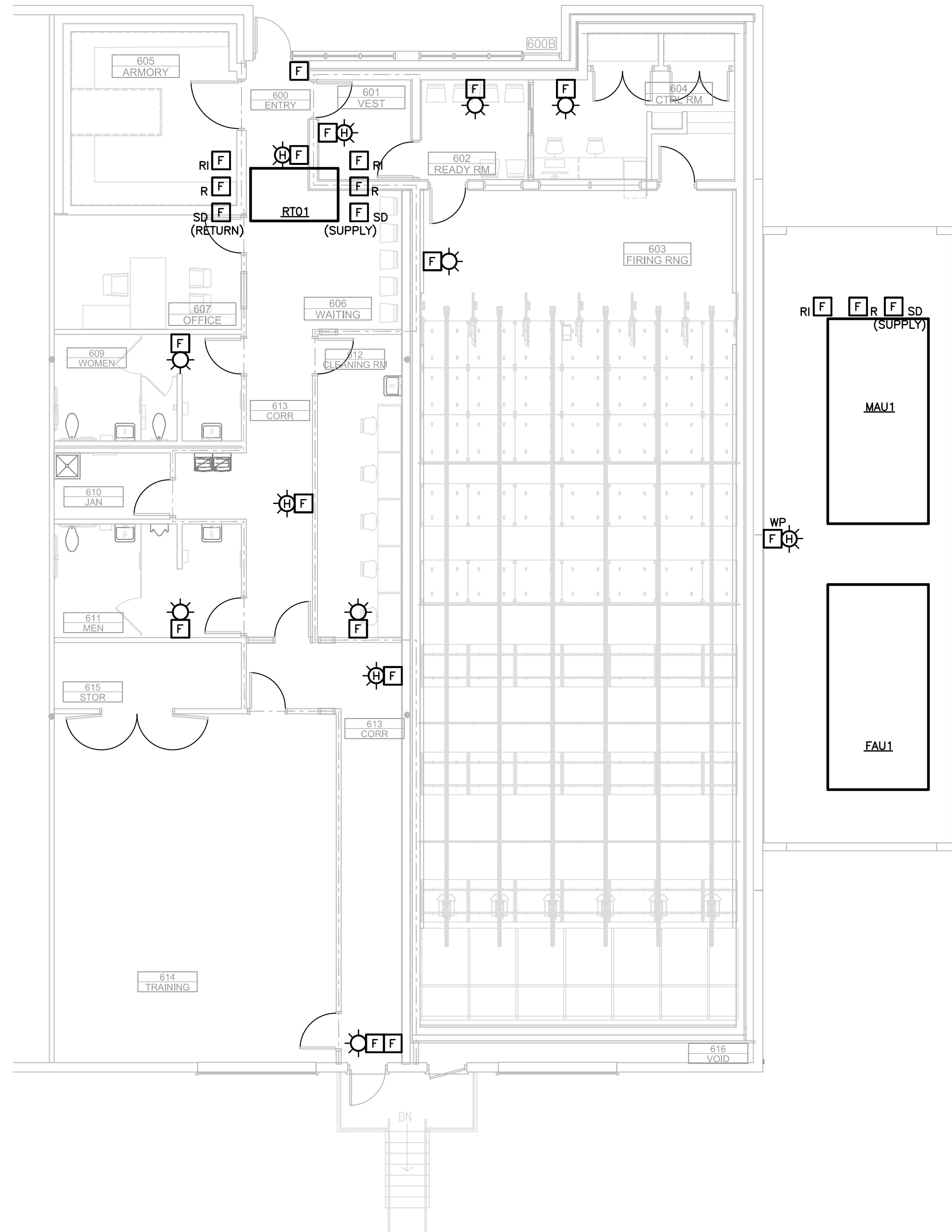
POWER PLANS

E2.1

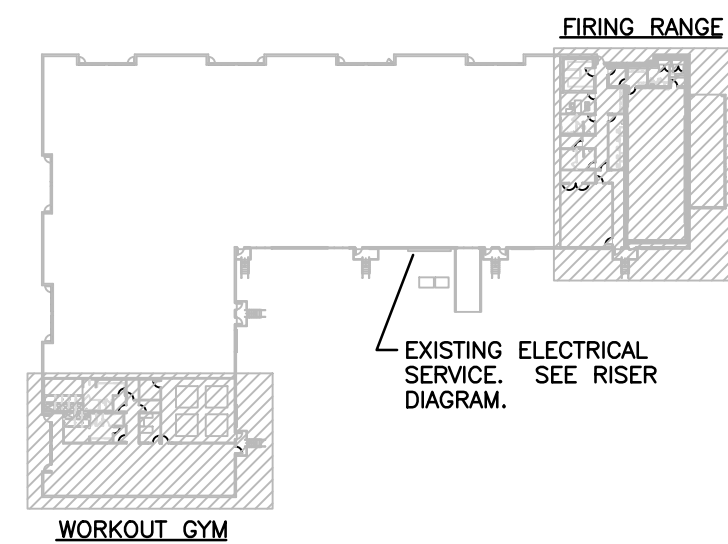
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PARTIAL FIRE ALARM PLAN - GYM
SCALE: 1/8" = 1'-0"
0 4' 8' 16'



PARTIAL FIRE ALARM PLAN - FIRING RANGE
SCALE: 1/8" = 1'-0"
0 4' 8' 16'



KEY PLAN
NOT TO SCALE

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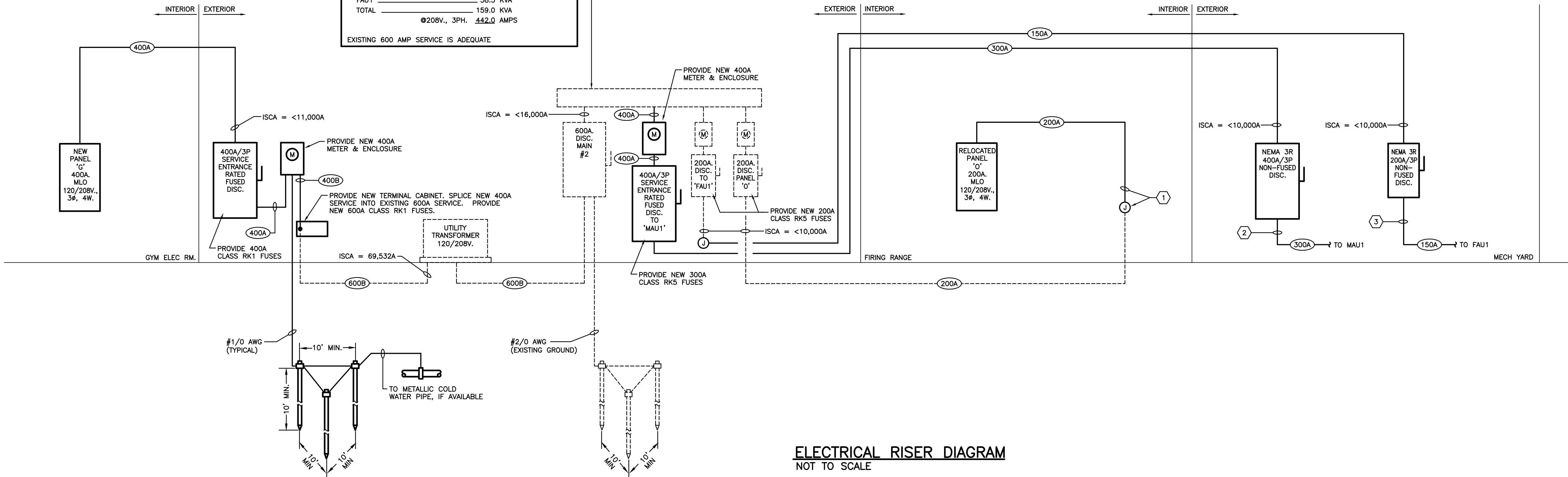
FIRE ALARM PLANS

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LEGEND	
	EXISTING ELECTRICAL EQUIPMENT OR CONDUIT/CONDUCTORS TO REMAIN.
	NEW ELECTRICAL EQUIPMENT OR CONDUIT/CONDUCTORS.

FEEDER SCHEDULE	
AMPS	CONDUIT & CABLING
100A	1-1/4"C; 3-#3, 1-#3 NEUTRAL, 1-#8 GROUND
150A	2"C; 3-#1/0, 1-#1/0 NEUTRAL, 1-#6 GROUND
200A	2"C; 3-#3/0, 1-#3/0 NEUTRAL, 1-#6 GROUND
300A	3-1/2"C; 3-#350 KCMIL, 1-#350 KCMIL NEUTRAL, 1-#4 GROUND
400A	TWO(2) 2"C; EACH WITH 3-#3/0, 1-#3/0 NEUTRAL, 1-#3 GROUND
400B	TWO(2) 2"C; EACH WITH 3-#3/0, 1-#3/0 NEUTRAL
600B	TWO(2) 3-1/2"C; EACH WITH 3-#350 KCMIL, 1-#350 KCMIL NEUTRAL

ELECTRICAL LOAD CALCULATION	
PANEL 'O' _____	48.3 KVA
MAU1 _____	72.2 KVA
FAU1 _____	38.5 KVA
TOTAL _____	159.0 KVA
Ø208V., 3PH. 442.0 AMPS	
EXISTING 600 AMP SERVICE IS ADEQUATE	



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

RISER KEYED NOTES

- 1 PROVIDE SURFACE MOUNT JUNCTION BOX SIZED PER NEC AND SPLICE/EXTEND EXISTING FEEDERS AS REQUIRED TO RELOCATE PANEL 'O' AS SHOWN.
- 2 ROUTE CIRCUIT VIA CONTROL PANEL PROVIDED WITH UNIT.
- 3 ROUTE CIRCUIT VIA VFD PROVIDED WITH UNIT.

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ELECTRICAL RISER
DIAGRAMS

E4.1

MECHANICAL EQUIPMENT CONNECTION SCHEDULE														
									DISCONNECT SWITCH/COMBINATION STARTER					
MARK	VOLTAGE/PHASE	HEAT KW	HP	FLA	MCA	BREAKER	HOMERUN CIRCUIT	CONDUIT & CABLING	SIZE AMPS	POLES	FUSE	STARTER SIZE	NEMA RATING	INTERLOCK/REMARKS
EXHAUST FANS														
EF01	120V/1ø	—	—	1.0	1.25	20	INTERLOCK W/LIGHTS	3/4"; 2 #12, 1 #12 EG	DV15	—	—	—	—	INTERLOCK WITH LIGHTS
EF02	120V/1ø	—	—	1.0	1.25	20	INTERLOCK W/LIGHTS	3/4"; 2 #12, 1 #12 EG	DV15	—	—	—	—	INTERLOCK WITH LIGHTS
EF03	120V/1ø	—	—	1.0	1.25	20	INTERLOCK W/LIGHTS	3/4"; 2 #12, 1 #12 EG	DV15	—	—	—	—	INTERLOCK WITH LIGHTS
EF04	120V/1ø	—	—	1.0	1.25	20	INTERLOCK W/LIGHTS	3/4"; 2 #12, 1 #12 EG	DV15	—	—	—	—	INTERLOCK WITH LIGHTS
EF05	120V/1ø	—	—	1.0	1.25	20	INTERLOCK W/LIGHTS	3/4"; 2 #12, 1 #12 EG	DV15	—	—	—	—	INTERLOCK WITH LIGHTS
HVAC UNITS														
RT01	208V/3ø	12.0	—	64.8	81.0	90	0-37,39,41	1-1/4"; 3 #3, 1 #8 EG	100	3	MFS	—	3R	—
MAU1	208V/3ø	—	—	200.6	250.7	N/A	SEE RISER DIAGRAM	3"; 3 #350 KCMIL, 1 #4 EG	400	3	NF	—	3R	NOTE #1
FAU1	208V/3ø	—	—	107.0	133.8	N/A	SEE RISER DIAGRAM	3/4"; 3 #1/0, 1 #6 EG	200	3	NF	—	3R	NOTE #1
ELECTRIC WATER HEATER														
EW1	208V/1ø	3.0	—	14.4	18.0	20	0-33,35	3/4"; 2 #12, 1 #12 EG	20	2	MRS	—	1	—
MFS = MANUFACTURER'S RECOMMENDED FUSE SIZE MRS = MOTOR RATED TOGGLE SWITCH BY DIVISION 15 VFD = VARIABLE FREQUENCY DRIVE (FURNISHED BY DIVISION 15) INSTALLED BY DIVISION 16														
NF = NON-FUSED DIV15 = DISCONNECTING MEANS PROVIDED BY THE MANUFACTURER OR DIVISION 15 CONTRACTOR														

NOTES:
1. PROVIDE NON-FUSED NEMA 3R DISCONNECT SWITCH IN MECHANICAL YARD TO SERVE LOCAL DISCONNECTING MEANS. MAKE ALL NECESSARY CONNECTION TO OWNER PROVIDED HVAC UNIT AND ASSOCIATED EQUIPMENT FOR A COMPLETE INSTALLATION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

EXISTING (RELOCATED) PANEL

PANEL: 0 AIC RATING: 10,000 AMPS SERVICE: 120/208 V.,														
3PH,4W										MLO: 0 AMPS MCB: 200 AMPS				
	DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA		DESCRIPTION		
R	LTG; TRAINING/TOILETS	1.3	20	1				2	20	0.7		REC; TRAINING		R
R	LTG; CORR/OFFICE/CTRL	1.2	20	3				4	20	0.7		REC; TRAINING		R
R	LTG; MECH & GFI'S	0.7	20	5				6	20	0.7		REC; TRAINING		R
R	LTG; FIRING RANGE	1.3	20	7				8	20	0.7		REC; TRAINING		R
R	EQ; MEN HAND DRYER	1.5	20	9				10	20	0.5		REC; TRAINING		R
R	EQ; MEN HAND DRYER	1.5	20	11				12	20	0.5		REC; CORRIDOR		R
R	EQ; WOMEN HAND DRYER	1.5	20	13				14	20	0.7		REC; CLEANING RM		R
R	EQ; WOMEN HAND DRYER	1.5	20	15				16	20	0.7		REC; CORR/TOILETS		R
R	EQ; EWC	0.5	20	17				18	20	0.7		REC; OFFICE		R
S	SPARE	0	2P	19				20	20	0.9		REC; ARMRY/WAITG/CTRL		R
S	SPARE	0	30	21				22	20	0.7		REC; FIRING RANGE		R
S	SPARE	0	20	23				24	20	0.7		REC; FIRING RANGE		D
S	SPARE	0	20	25				26	20	0.7		REC; FIRING RANGE		D
S	SPARE	0	20	27				28	20	0.4		REC; FIRING RANGE CNTRL		D
S	SPARE	0	20	29				30	20	0		SPARE		S
R	EQ; DDC CONTROLS	0.4	20	31				32	20	0		SPARE		S
D	EQ; EWH1	1.5	2P	33				34	20	0		SPARE		S
D	EQ; EWH1	1.5	20	35				36	20	0		SPARE		S
D	A/C; RT01	7.8	3P	37				38	3P	0		SPD		D
D	A/C; RT01	7.8	90	39				40	30	0		SPD		D
D	A/C; RT01	7.8	**	41				42	**	0		SPD		D
A PH = 16.00					B PH = 16.50					C PH = 14.60				
SERVES		CONN LOAD		FACTOR		FEED		DIVERSITY		KVAD		PANEL KVAD		
LIGHTING		4.50	x	1.25	=	5.63	x		=					
RECEIPT		9.30	x	+	=	9.30	x		=					
MISC EQUIP		9.90	x	1.00	=	9.90	x		=					
A/C		23.40	x	1.00	=	23.40	x		=					
HEATING		0.00	x	1.00	=	0.00	x		=					
LARGEST MOTOR		0.00	x	1.25	=	0.00	x		=					
OTHER MOTORS		0.00	x	1.00	=	0.00	x		=					
OTHER		0.00	x	1.00	=	0.00	x		=					
SPARE						23.74								
TOTALS		47.10	KVA			71.97	KVA							

* PER N.E.C. TABLE 220.44

ALL PANELBOARDS SHALL BE ACCURATELY LABELED AND NUMBERED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.

E = EXISTING CIRCUIT TO REMAIN.
N = NEW BREAKER AND CIRCUIT.
R = REUSE EXISTING CIRCUIT BREAKER TO FEED NEW CIRCUIT.
S = SPARE OUT EXISTING BREAKER, REMOVE ALL ABANDONED CONDUCTORS AND CONDUIT.
D = REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW BREAKER, CONDUIT AND WIRE.

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HILLSBOROUGH COUNTY SHERIFF'S OFFICE
FIRING RANGE AND WORKOUT GYM
PINEBROOKE BUSINESS PARK

PROJECT #:	1626-00
DISTRIBUTION	DATE
PERMIT SET	1/16/2017

ELECTRICAL
SCHEDULES - FIRING
RANGE

E5.1

Drawing File: L:\6000\6065\001\6065e5c.dwg E52
Plotted by: Andrew Jan 16, 2017 - 9:18pm

MECHANICAL EQUIPMENT CONNECTION SCHEDULE														
								DISCONNECT SWITCH/COMBINATION STARTER						
MARK	VOLTAGE/PHASE	HEAT KW	HP	FLA	MCA	BREAKER	HOMERUN CIRCUIT	CONDUIT & CABLING	SIZE AMPS	POLES	FUSE	STARTER SIZE	NEMA RATING	INTERLOCK/REMARKS
EXHAUST FANS														
EF06	120V/1ø	—	1/4	5.8	7.3	20	G-5	3/4"; 2 #12, 1 #12 EG	DIV15	—	—	—	—	INTERLOCK WITH AH15
HVAC UNITS														
RT15	208V/3ø	24.0	—	101.6	127.0	175	G-37,39,41	2"; 3 #2/0, 1 #6 EG	200	3	MFS	—	3R	—
ELECTRIC WATER HEATER														
EW11	208V/3ø	6.0	—	16.7	20.8	30	G-29,31,33	3/4"; 2 #10, 1 #10 EG	30	3	MFS	—	1	—
MFS = MANUFACTURER'S RECOMMENDED FUSE SIZE MRS = MOTOR RATED TOGGLE SWITCH BY DIVISION 15 VFD = VARIABLE FREQUENCY DRIVE (FURNISHED BY DIVISION 15) INSTALLED BY DIVISION 16														
NF = NON-FUSED DIV15 = DISCONNECTING MEANS PROVIDED BY THE MANUFACTURER OR DIVISION 15 CONTRACTOR														

NEW PANEL										
PANEL: G AIC RATING: 22,000 AMPS SERVICE: 120/208 V.,				3PH,4W				MLO: 400 AMPS MCB: 0 AMPS		
DESCRIPTION	KVA	BKR	CKT	A	B	C	CKT	BKR	KVA	DESCRIPTION
LTG; ELEC/BOXING/OFFICE	1.1	20	1				2	20	0.5	REC; BOXING
LTG; WEIGHT ROOM	1.3	20	3				4	20	0.7	REC; BOXING
LTG; M TOILET/SHOWERS	1.4	20	5				6	20	0.7	REC; OFFICE
LTG; W TOILET/SHOWERS	0.8	20	7				8	20	0.7	REC; ELEC/M TOILET
EQ; M TOILET HAND DRYER	1.5	20	9				10	20	0.7	REC; CORR/M TOILET
EQ; M TOILET HAND DRYER	1.5	20	11				12	20	1	EQ; WEIGHT RM
EQ; M TOILET HAND DRYER	1.5	20	13				14	20	1	EQ; WEIGHT RM
EQ; W TOILET HAND DRYER	1.5	20	15				16	20	0.7	REC; WEIGHT RM TV
EQ; W TOILET HAND DRYER	1.5	20	17				18	20	0.7	REC; WEIGHT RM TV
EQ; W TOILET HAND DRYER	1.5	20	19				20	20	1	EQ; WEIGHT RM
EQ; WEIGHT RM	1	20	21				22	20	1	EQ; WEIGHT RM
EQ; WEIGHT RM	1	20	23				24	20	1	EQ; WEIGHT RM
SPARE	0	20	25				26	20	1	EQ; WEIGHT RM
SPARE	0	20	27				28	20	1	EQ; WEIGHT RM
EQ; EWH2	2	3P	29				30	20	1	EQ; WEIGHT RM
EQ; EWH2	2	3P	31				32	20	1	EQ; WEIGHT RM
EQ; EWH2	2	"	33				34	20	1	EQ; WEIGHT RM
MTR; EF4	0.6	20	35				36	20	0	SPARE
A/C; RT15	12.2	3P	37				38	3P	0	SPD
A/C; RT15	12.2	175	39				40	3P	0	SPD
A/C; RT15	12.2	"	41				42	"	0	SPD
A PH = 24.30 B PH = 24.60 C PH = 24.60										
SERVES	CONN	LOAD	FACTOR	FEED	DIVERSITY			KVAD		PANEL KVAD
LIGHTING	4.60	x	1.25	=	5.75	x	=			
RECEPT	4.70	x	*	=	4.70	x	=			
MISC EQUIP	27.00	x	1.00	=	27.00	x	=			
A/C	36.60	x	1.00	=	36.60	x	=			
HEATING	0.00	x	1.00	=	0.00	x	=			
LARGEST MOTOR	0.60	x	1.25	=	0.75	x	=			
OTHER MOTORS	0.00	x	1.00	=	0.00	x	=			
OTHER	0.00	x	1.00	=	0.00	x	=			
SPARE					69.14					
TOTALS	73.50	KVA		143.94	KVA					

ALL PANELBOARDS SHALL BE ACCURATELY LABELED AND NUMBERED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.

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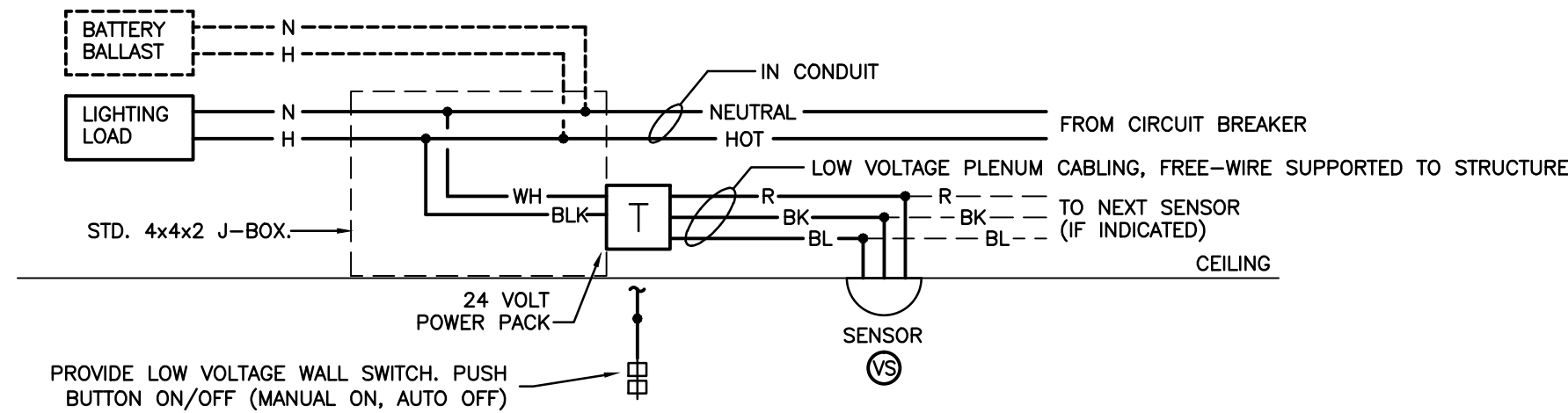
ROBERT C. ANSTON, P.E. 40858

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
FIRING RANGE AND WORKOUT GYM
PINEBROOKE BUSINESS PARK

PROJECT #: 1626-00	
DISTRIBUTION	DATE
PERMIT SET	1/16/2017

ELECTRICAL
SCHEDULES - GYM
AND RISER DIAGRAM

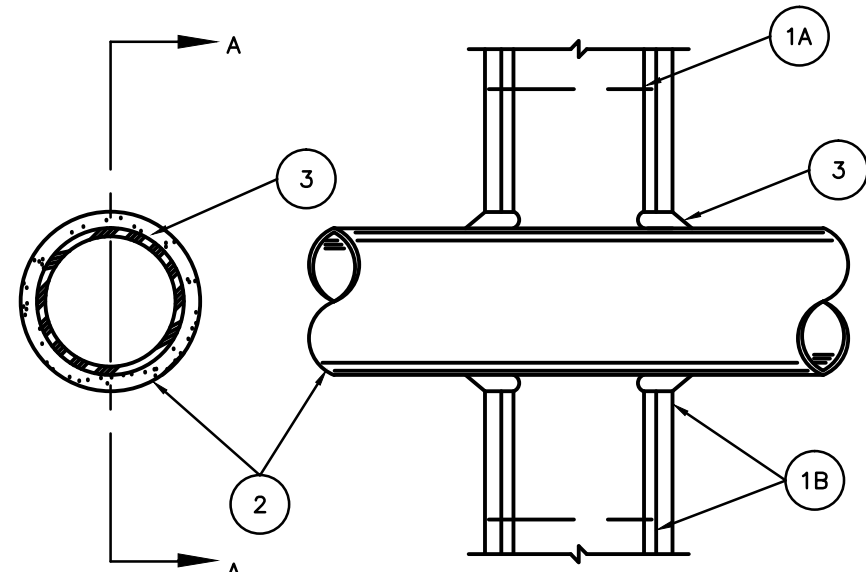
E5.2



- NOTES:
1. CONTRACTOR SHALL SUBMIT SENSOR MANUFACTURER'S LAYOUT DRAWING FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO PROVIDE TOTAL COVERAGE OF AREA.
 2. PROVIDE FOR DUAL SWITCHING WHERE INDICATED ON DRAWING.

TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM
NOT TO SCALE

SYSTEM NO. W-L-1001
JUNE 15, 2005
F RATINGS — 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS — 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT — LESS THAN 1 CFM/SQ FT
L RATING AT 400 F — LESS THAN 1 CFM/SQ FT



SECTION A-A

FIRE-RATED WALL PENETRATION DETAIL FOR PIPE OR CONDUIT
NOT TO SCALE

1. WALL ASSEMBLY — THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
 - B. GYPSUM BOARD* — NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).
 2. THROUGH-PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM), (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - B. IRON PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE. NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - C. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
 - D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 - F. THROUGH PENETRATING PRODUCT* — FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
 1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

GASTITE, DIV OF TITFLEX
3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

WARD MFG L L C
3. FILL, VOID OR CAVITY MATERIAL* — CAULK OR SEALANT — MIN 5/8. , 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

Max Pipe or Conduit Diam. in (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.

3M COMPANY — CP 25WB+ OR FB-3000 WT.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

LAST UPDATED ON 2005-06-15

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ELECTRICAL DETAILS

E6.1