

HCSO MENTAL HEALTH CLINIC

24001.01

#	ISSUED FOR	DATE
	DD - JIA	06.20.24



VICINITY MAP



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MEFPF:

MES GROUP
550 NORTH REO STREET
SUITE 203
TAMPA, FL 33609

DRAWING INDEX		
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PROJECT INFORMATION

PROJECT NAME: HSCO MENTAL HEALTH CLINIC
 PROJECT LOCATION: 2310 N. FALKENBURG ROAD
 TAMPA, FLORIDA 33619

PROJECT DESCRIPTION

--

BUILDING DATA:

SQUARE FOOTAGES:
 OFFICE/BUSINESS: 2,535 SF
 INSTITUTIONAL GROUP I-3: 7,046 SF
 TOTAL SQUARE FOOTAGE: -- 9,581 SF

FLOOD DESIGN DATA:

N/A

CLADDING DESIGN DATA:

N/A

CODE REFERENCE

APPLICABLE CODES:

FLORIDA BUILDING CODE: SIXTH EDITION 2017
 FLORIDA ACCESSIBILITY CODE: SIXTH EDITION 2017
 FLORIDA MECHANICAL CODE: SIXTH EDITION 2017
 FLORIDA FIRE PREVENTION CODE: SIXTH EDITION 2017
 NFPA 70: NATIONAL ELECTRICAL (EXCEPT ARTICLE 80): 2014

OCCUPANCY (FBC CHAPTER 3):
 ASSEMBLY - GROUP A-3

NON-SEPARATED OCCUPANCIES (FBC SECTION 508.3)
 INCLUDES ASSEMBLY AND BUSINESS.

BUILDING DESIGN IS BASED ON THE MOST RESTRICTIVE
 OCCUPANCY, ASSEMBLY GROUP A-3.

GENERAL BUILDING LIMITATIONS (FBC TABLE 504):

	TYPE -- (UNPROTECTED, SPRINKLERED)	
	ALLOWABLE:	PROVIDED:
MAX HEIGHT	75'-0"	--
HEIGHT INCREASE (SECTION 504.2)	N/A	N/A
MAX STORIES	4	--
STORY INCREASE (SECTION 504.2)	--	--
MAX AREA FBC TABLE 506.2	38,000 SQ. FT.	9,581 SQ. FT.
AREA INCREASE (SECTION 506.3, SPRINKLED, 200% INCREASE)	--	--

TYPE OF CONSTRUCTION (FBC CHAPTER 6): --

FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS: (TABLE 601)

BUILDING ELEMENT	--
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
NON-BEARING WALLS AND PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0

FIRE RATINGS (FBC CHAPTER 7):

DESCRIPTION	TYPE -- (UNPROTECTED, SPRINKLERED)	
	REQUIRED	PROVIDED:
SHAFT ENCLOSURES (SECTION 713.4)	2 HR. FIRE BARRIER	N/A
DOOR RATINGS AT 1 HR RATED SHAFT ENCLOSURES AND EXIT PASSAGEWAYS (TABLE 716.5)	1 HR. FIRE RATING	N/A
SEPERATION OF OCCUPANCY (TABLE 508.4) GROUP A AND B	1 HR. FIRE RATING	N/A

INTERIOR FINISHES (TABLE 803.11):

OCCUPANCY	EXIT ENCLOSURES AND PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
GROUP --	CLASS --	CLASS --	CLASS --

AUTOMATIC SPRINKLER SYSTEMS: (FBC 903.2.1.2 GROUP --)
 AUTOMATIC SPRINKLER REQUIRED

FIRE ALARM REQUIREMENTS:

(FBC 907, NFPA 72)
 FIRE ALARM IS REQUIRED FOR GROUP --, SPRINKLED BUILDING AND IS PROVIDED.

MEANS OF EGRESS (FBC CHAPTER 10)

POPULATION/ OCCUPANCY LOAD (FROM TABLE 1004.1.2)

FUNCTION OF SPACE	AREA	AREA / PERSON	OCCUPANTS
INSTITUTIONAL AREAS	7,046 SF	240 NET	30
BUSINESS AREAS	2,535 SF	150 GROSS	17
FIRST FLOOR	TOTAL OCCUPANT LOAD		47 PERSONS

MEANS OF EGRESS

(FBC CHAPTER 10)

OCCUPANCY:	SPRINKLED, B-OCCUPANCY	
	REQUIRED	PROVIDED
MAXIMUM TRAVEL DISTANCE (TABLE 1017.2.2)	300 FT	0' - 0'
MAXIMUM DEAD-END CORRIDOR (FBC 1020.4)	50 FT	-- FT
TOTAL # OF BLDG EXITS (SECTION 1006.3.1)	2 PER STORY	5 PER STORY
TOTAL # OF SPACE EXITS (SECTION 1006.2.1)	2 IF GREATER THAN 49 OCCUPANTS	5
COMMON PATH OF EGRESS TRAVEL (SECTION 1006.3.2 (2), EXCEPTION 1)	100'	0' - 0'
EGRESS STAIR WIDTH PER LEVEL (SECTION 1005.3.1)	0.3 x (0.3)=	N/A
OTHER EGRESS WIDTH PER LEVEL (SECTION 1005.3.2)	0.2 x (0.2)=	N/A
MINIMUM CORRIDOR AISLE WIDTH (TABLE 1020.2)	44"	51"
EXIT PASSAGE WAY FIRE RATING (SECTION 1023.3)	N/A	N/A
MINIMUM CLEAR OPENING OF EXIT DOORS (SECTION 1010.1.1)	32"	AT LEAST 36"

CORRIDOR FIRE RESISTANCE RATING:

(FROM TABLE 1020.1)

OCCUPANCY CLASSIFICATION	OCCUPANT LOAD	FIRE RESISTANCE RATING (SPRINKLED)
GROUP A	47 PERSONS	0 HR

MINIMUM PLUMBING FACILITIES (FBC CHAPTER 4)

--, -- PERSONS - PER FLOOR (TABLE 403.1)

CATEGORY	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS		OTHER - SERVICE SINK
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
	--	--	--	--	--	--	--



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 TAMPA, FLORIDA 33619

CODE DATA

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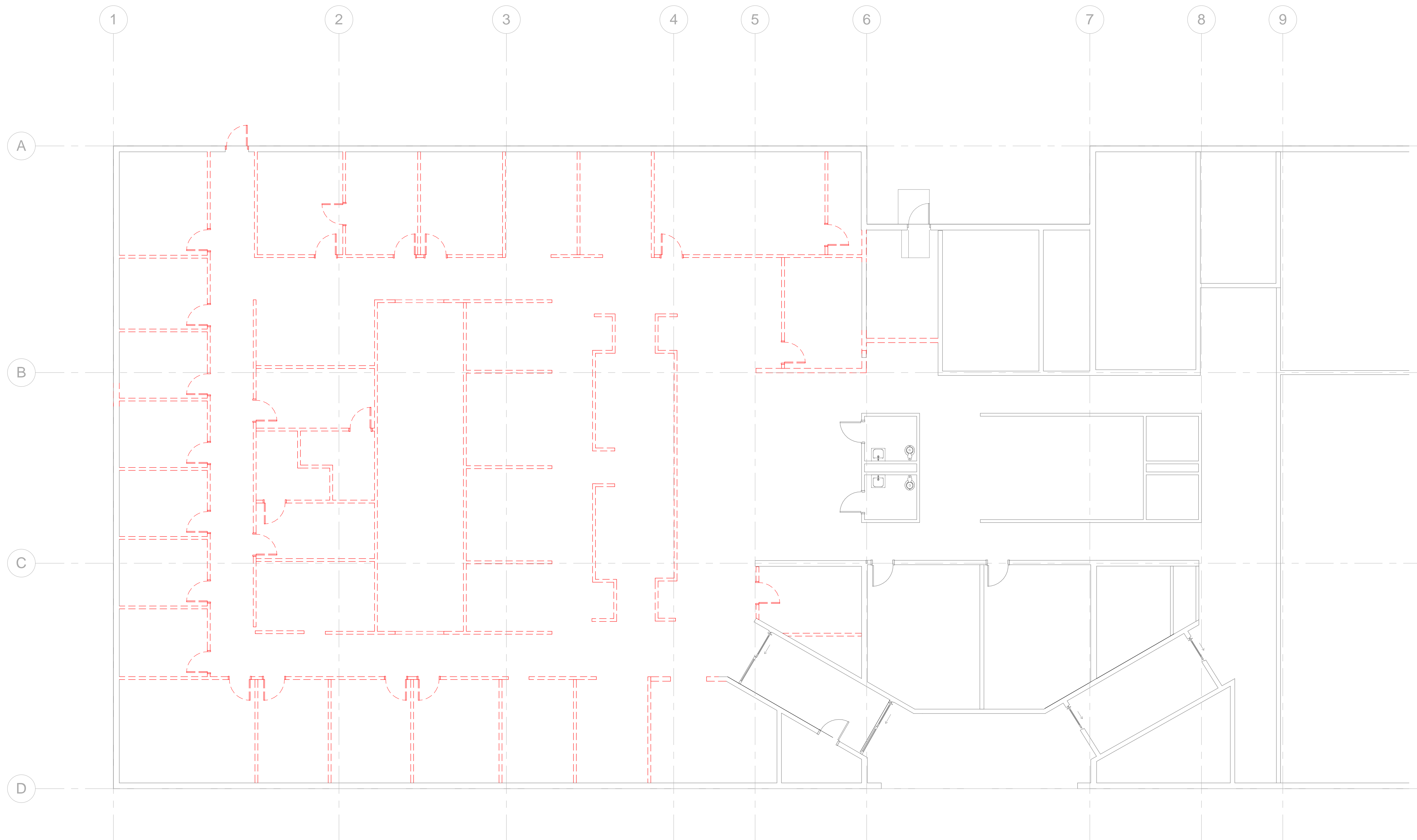
G-001

GENERAL NOTES

- CONTRACTOR SHALL NOTIFY ARCHITECT IN THE EVENT OF ANY DISCREPANCIES WITH STRUCTURAL, ARCHITECTURAL & MEP DEMOLITION DRAWINGS.
- CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.

DEMOLITION FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- - - WALL TO BE DEMOLISHED



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

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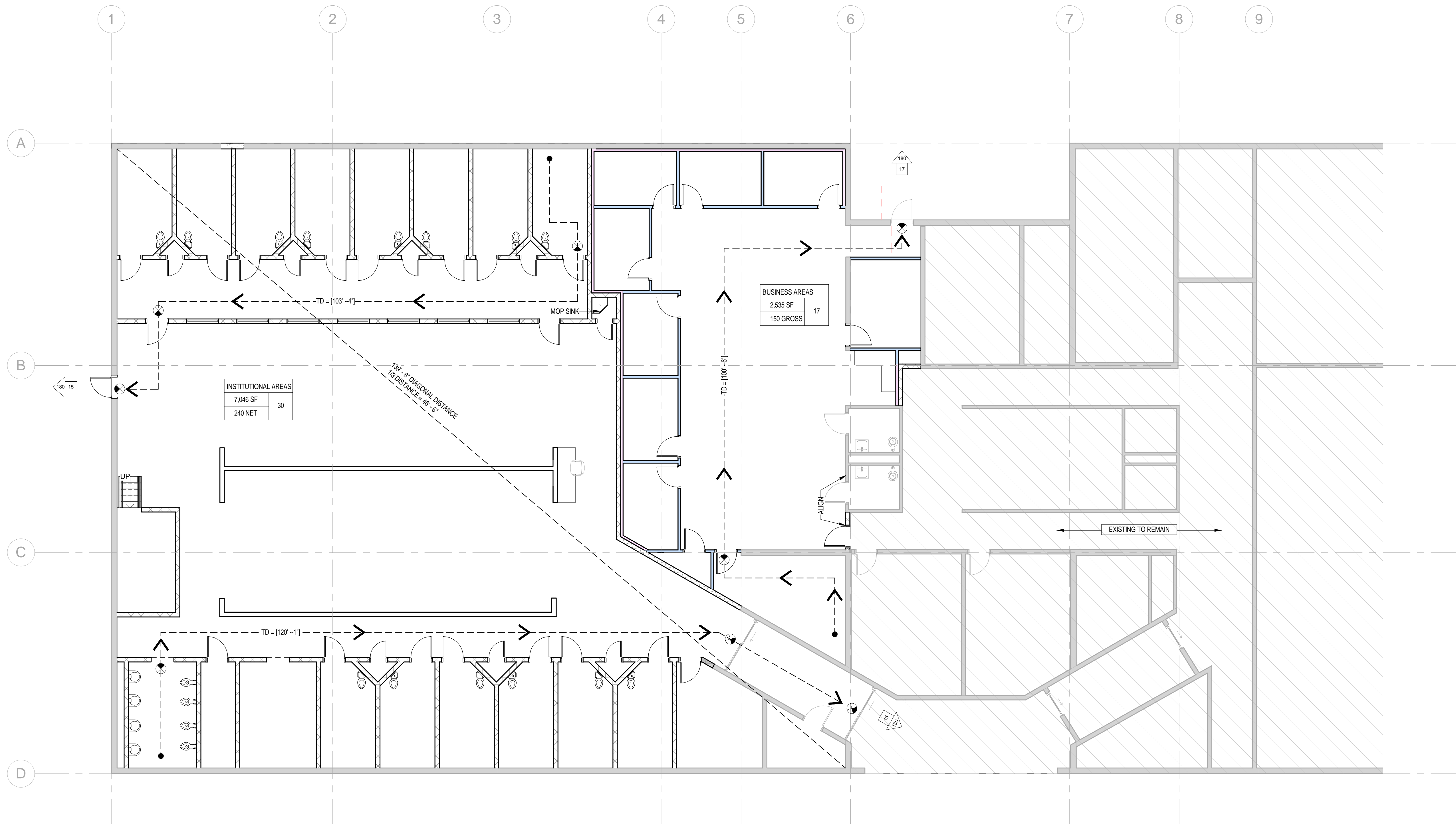
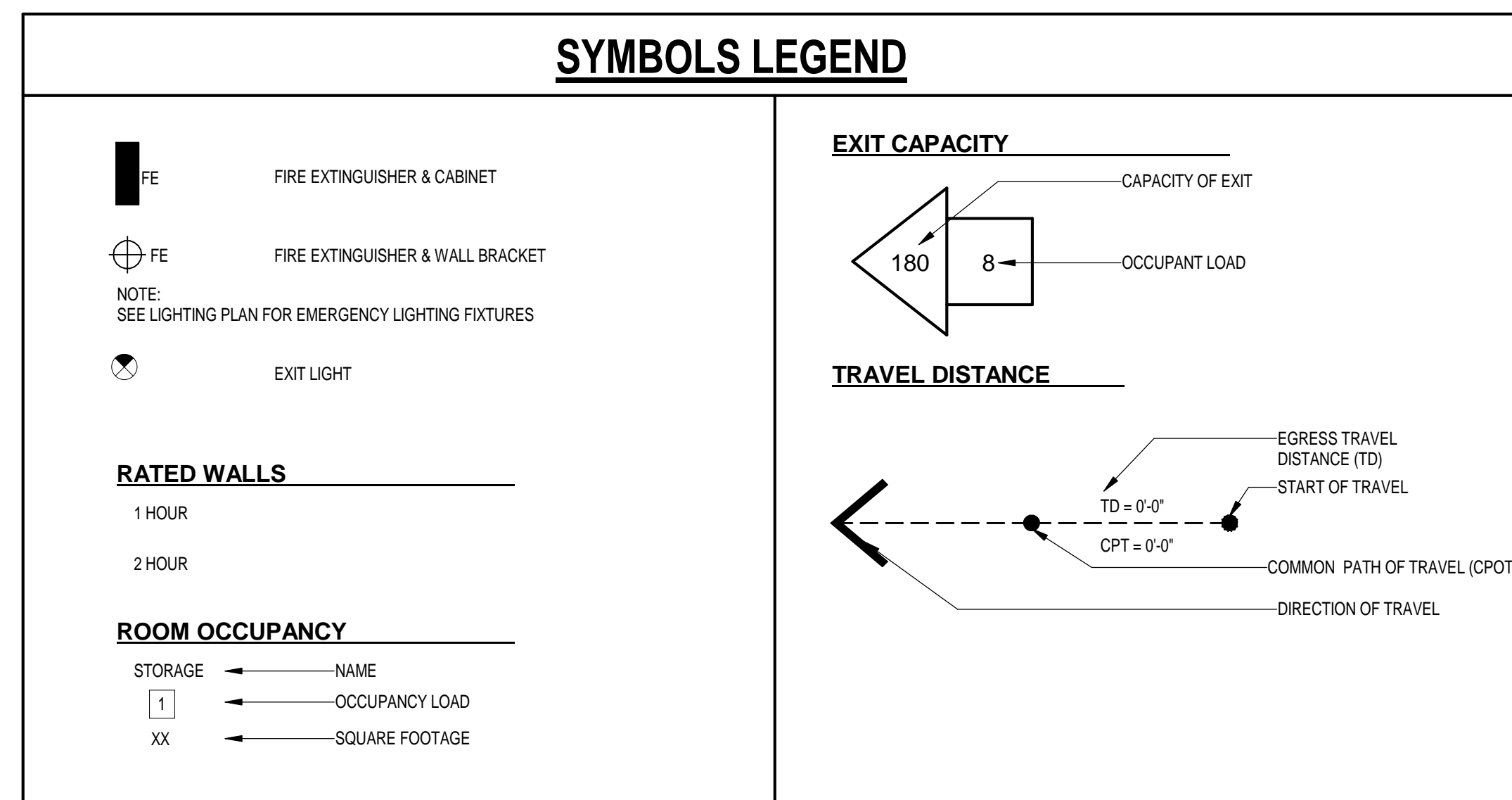
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AD-101



1 LIFE SAFETY PLAN
1/8" = 1'-0"

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LIFE SAFETY PLAN

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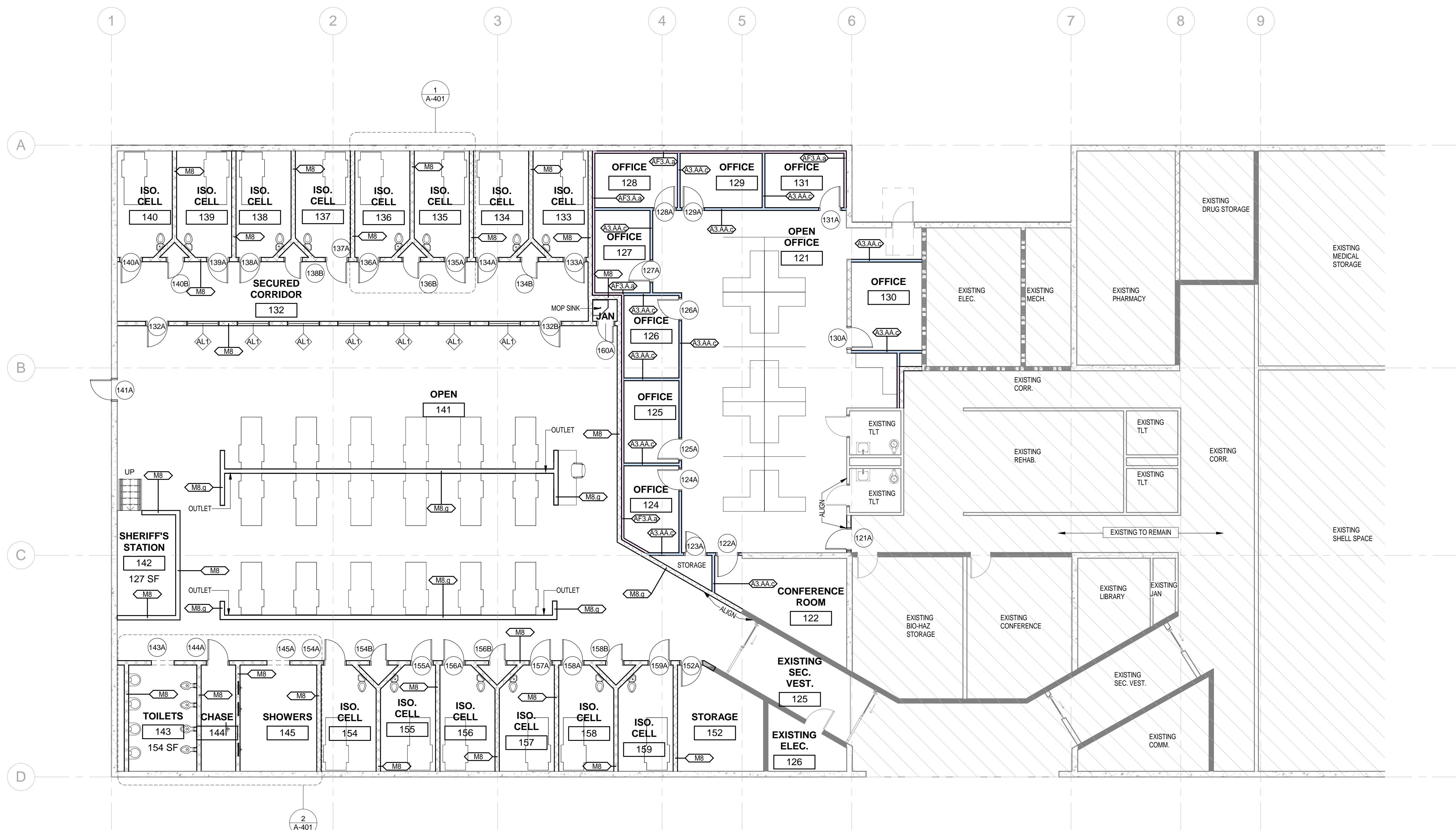
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LS-101



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ANNOTATED FLOOR PLAN

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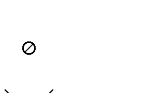
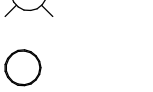






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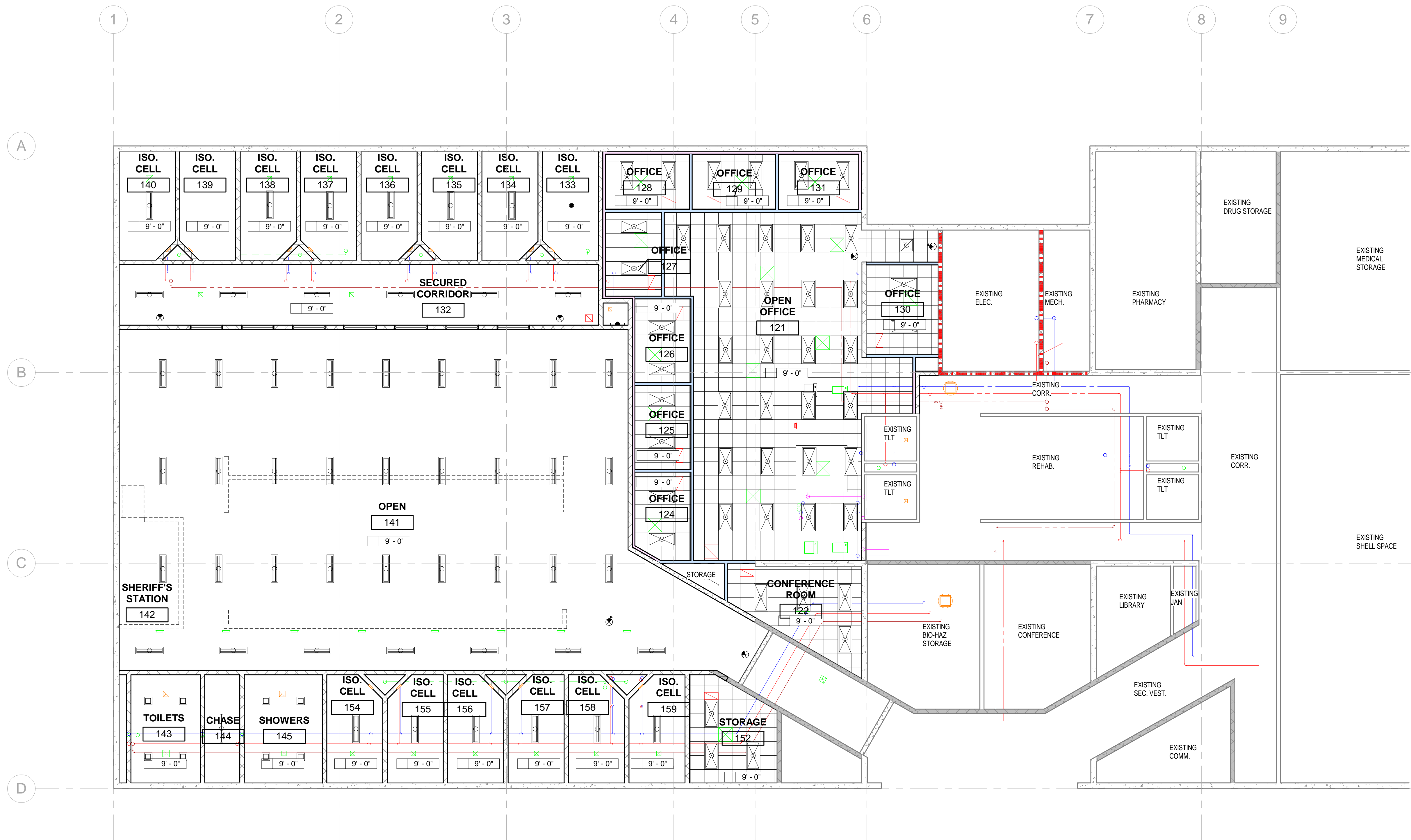
1 ANNOTATED FLOOR PLAN
1/8" = 1'-0"

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CEILING PLAN LEGEND

-  2x4 SUSPENDED ACOUSTICAL CEILING
-  2x2 SUSPENDED ACOUSTICAL CEILING
-  GYPSUM BOARD CEILING
-  STUCCO ON METAL LATHE
-  EXPOSED METAL DECK
-  2x2 LIGHTING FIXTURE
-  2x4 LIGHTING FIXTURE
-  WALL MOUNTED LIGHTING FIXTURE
-  DOWNLIGHT FIXTURE
-  SURFACE MOUNTED FIXTURE
-  PENDANT LIGHTING FIXTURE
-  DIRECTIONAL EXIT FIXTURE
-  CEILING RETURN
-  CEILING SUPPLY
-  CEILING EXHAUST



1 RCP
1/8" = 1'-0"

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REFLECTED CEILING PLAN

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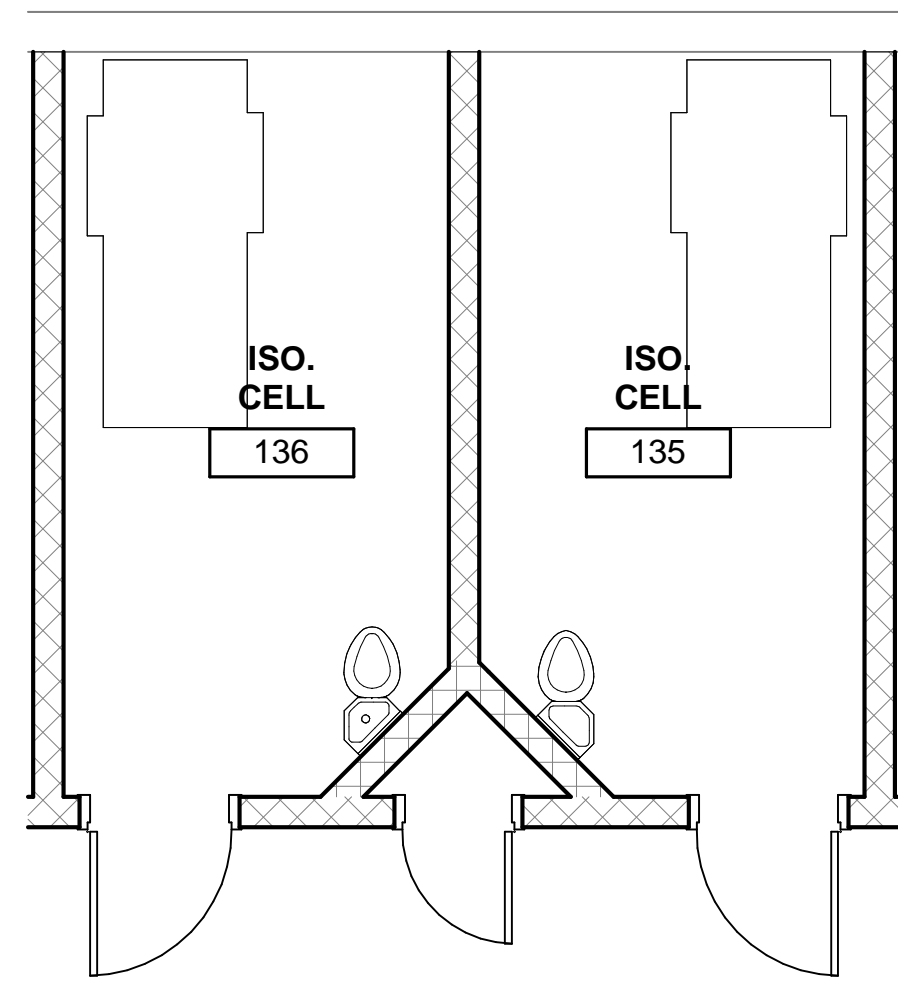
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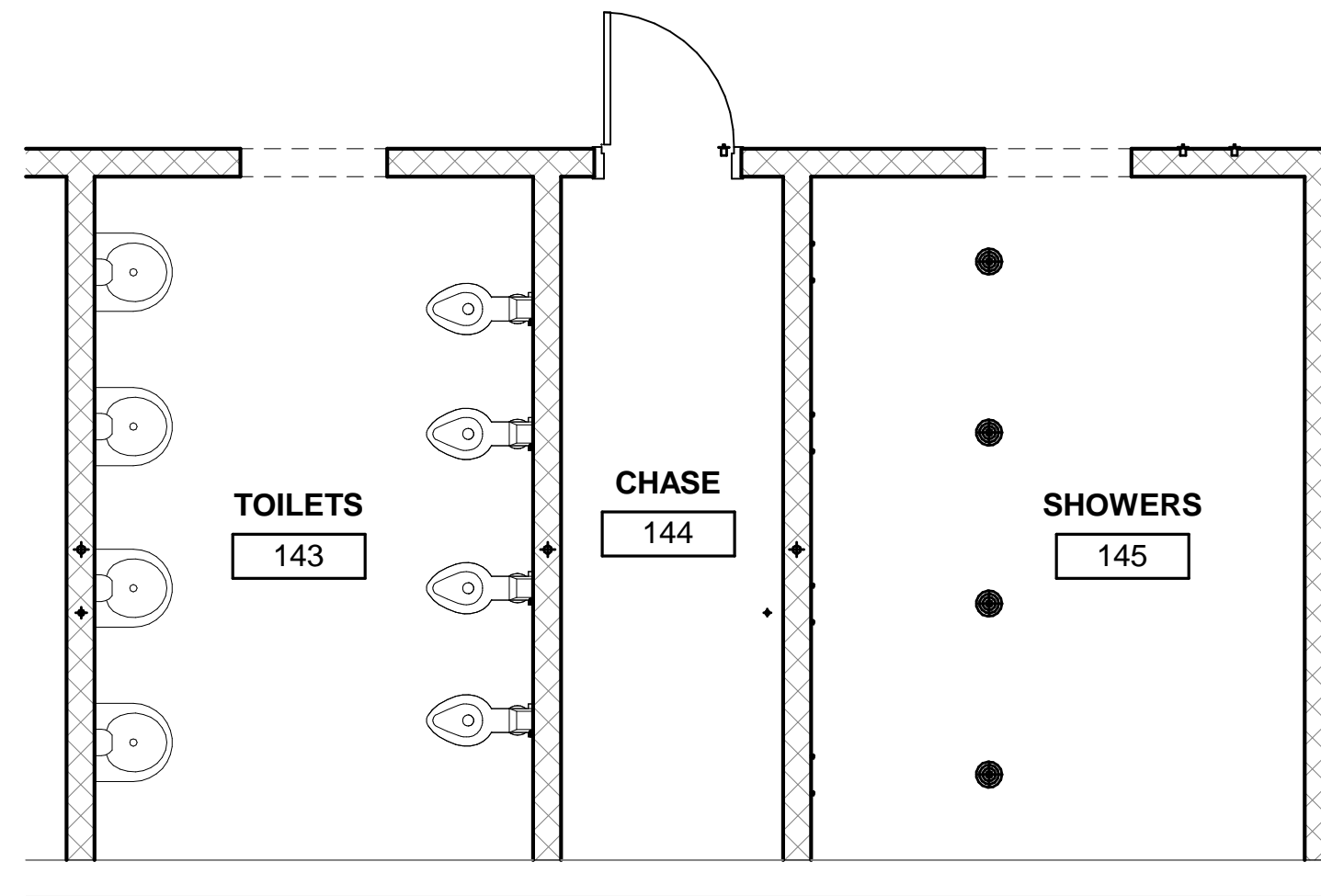
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A-111



1 ENLARGED ISO CELL PLAN
1/4" = 1'-0"



2 ENLARGED RESTROOM PLAN
1/4" = 1'-0"

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ENLARGED FLOOR PLANS

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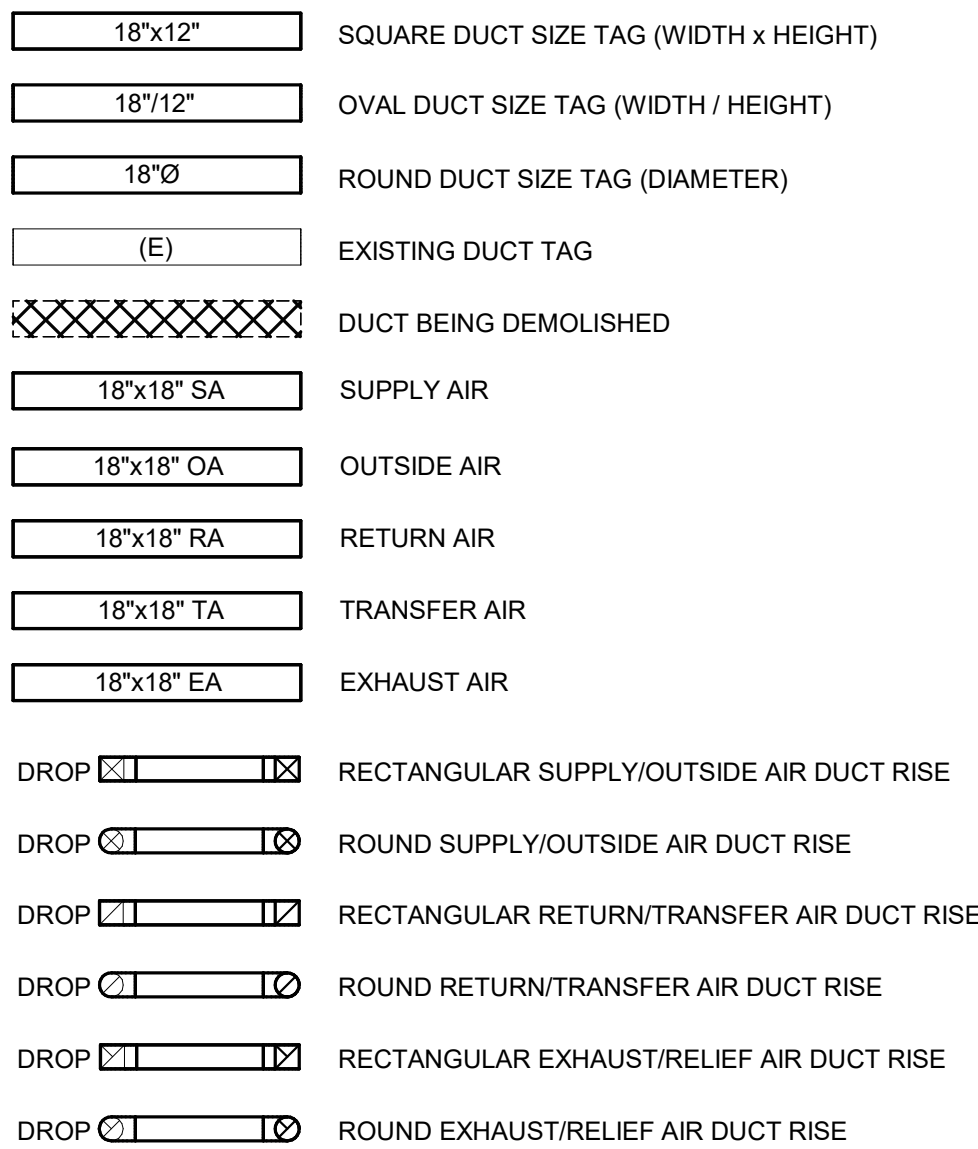
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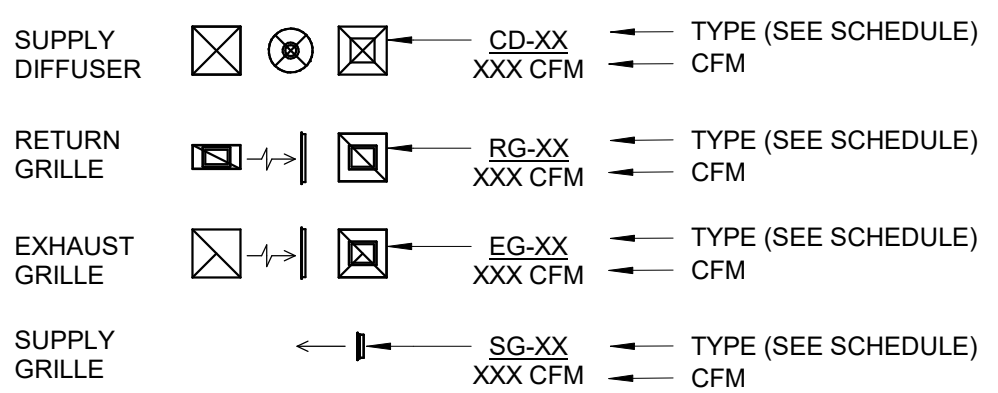
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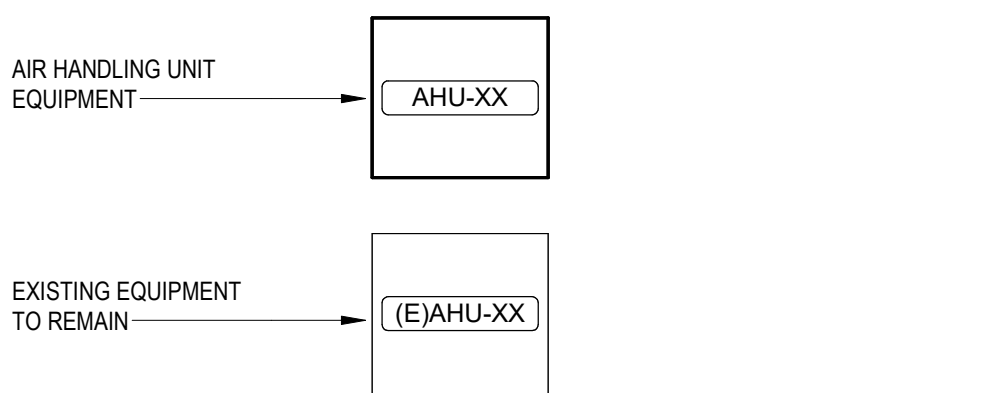
HVAC SYMBOLS



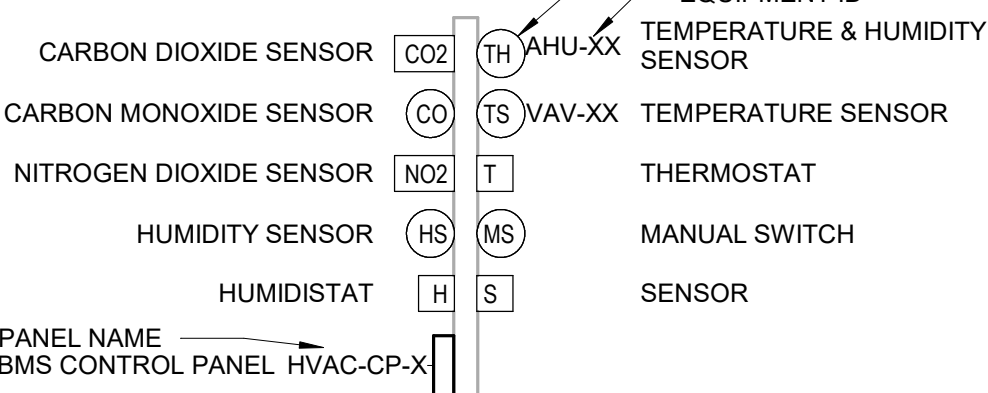
GRILLES, REGISTERS & DIFFUSERS TAG



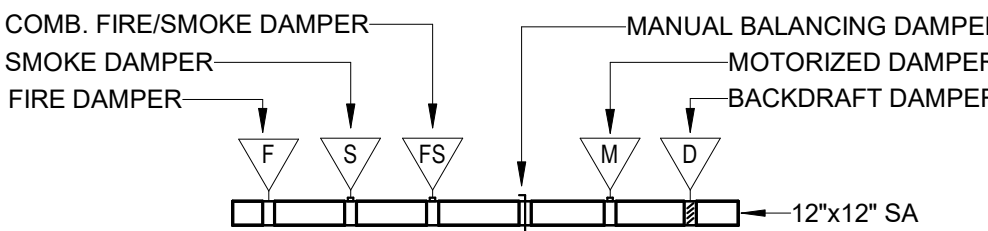
MECHANICAL EQUIPMENT TAGS



DATA DEVICE TAGS



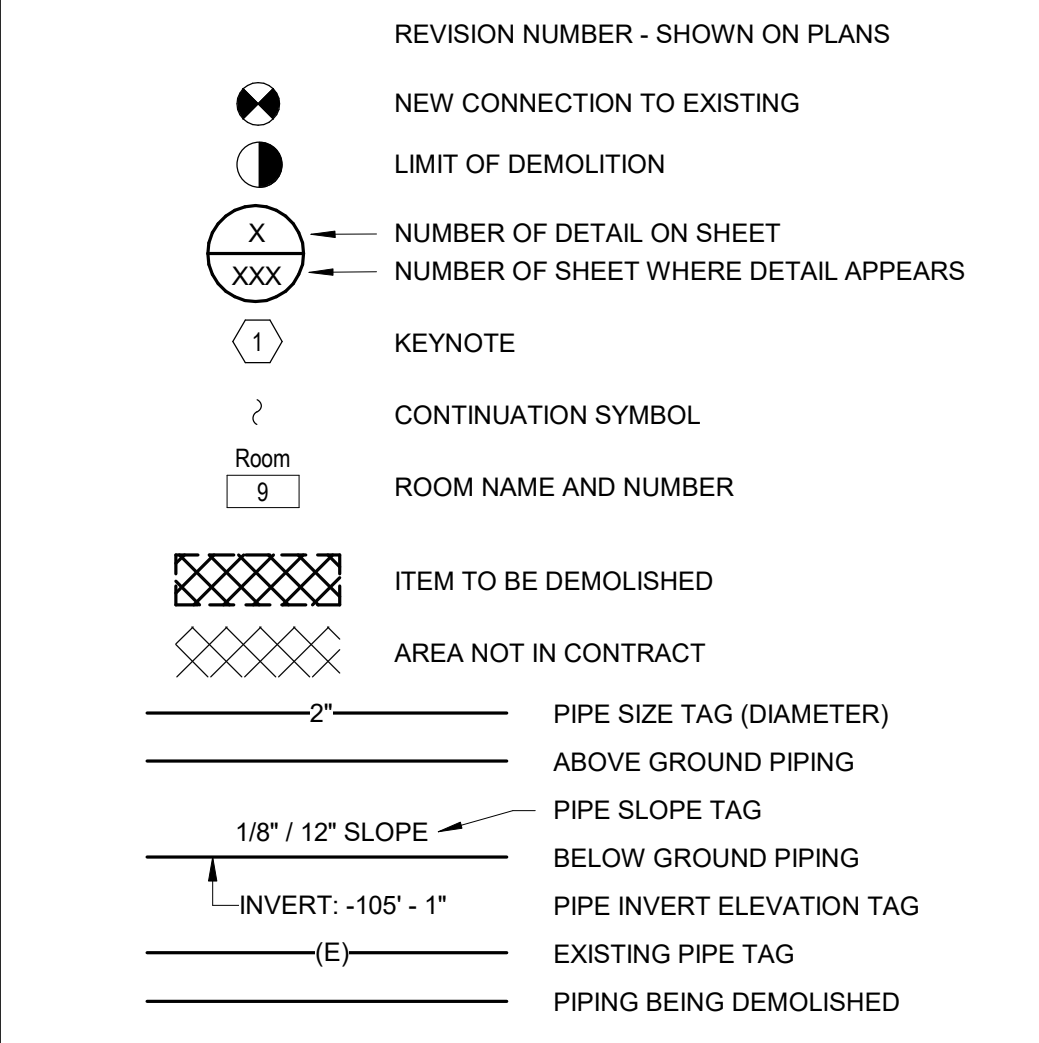
DAMPERS



NOTE

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL MECHANICAL SYMBOLS



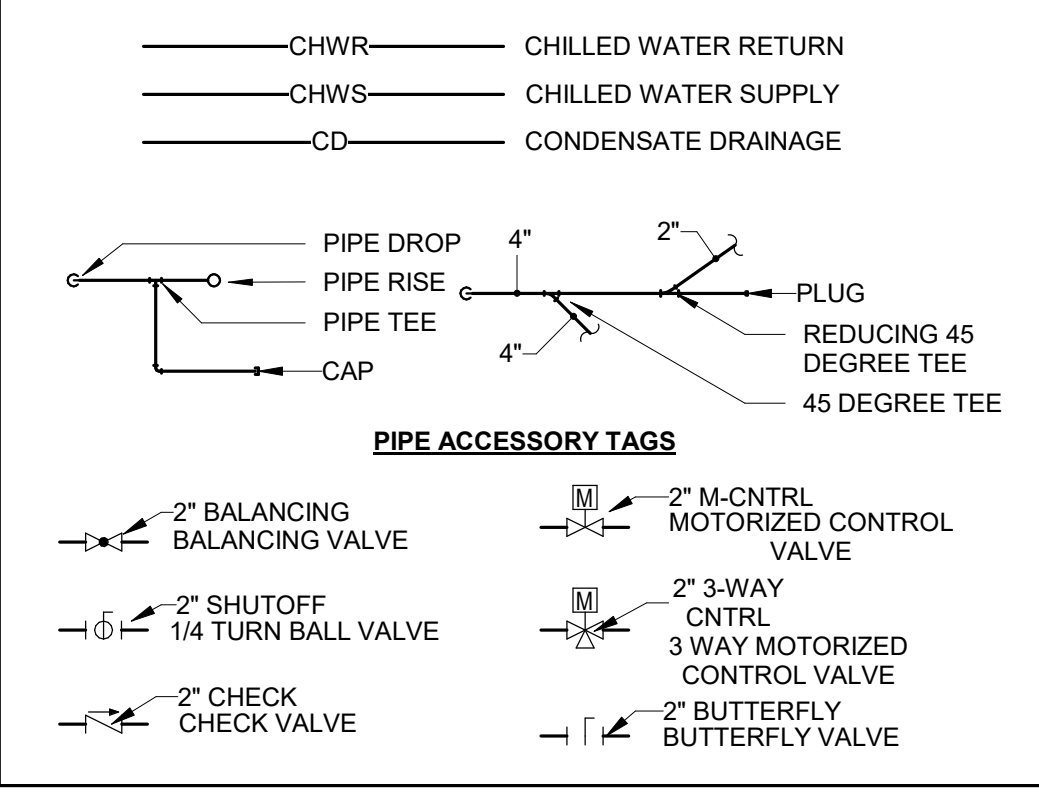
ABBREVIATIONS

Table of abbreviations for various mechanical components such as AVB, AC, ADD, AFF, ALT, AP, ARCH, BFF, BTU, BTUH, CAP, CFM, CLG, D, DB, DN, EA, EXIST, F, FL, FPM, FT, GAL, GC, GPM, HP, HTG, HTR, IN, INV, LB, LB/HR, LAT, LP, LVR, LWT, MA, MAX, MBH, MCF, MD, MECH, MFR, MIN, MISC, MTR, NC, NCR, NIC, NO, NTS, OA, PD, PLBG, PRESS, PRV, PSI, PSIG, PWR, RA, REC, RED, REL, RLA, RM, RPM, SF, SUP, SQ, SD, SM, SP, T, TD, TEMP, TYP, UG, VENT, WB, M-CNTRL, FCU, GRV, PV, RF, RTU, EF, EDC, FCU, GRV, PV, RF, RTU.

EQUIPMENT ABBREVIATIONS

Table of equipment abbreviations including AC, AHU, CH, CT, CHWP, CWP, DC, EF, EDC, FCU, GRV, PV, RF, RTU, M-CNTRL, FCU, GRV, PV, RF, RTU.

PIPING SYMBOLS



MECHANICAL NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS PRIOR TO BEGINNING WORK AND ORDERING EQUIPMENT...
2. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH SUBMITTED EQUIPMENT TO ENSURE ALL INLET/OUTLET CONNECTIONS COORDINATE WITH FIELD INSTALLED DUCTWORK AND MAKE ANY NECESSARY DUCT MODIFICATIONS...
3. SUBMITTALS SHALL MEET SCHEDULED DESIGN CHARACTERISTICS...
4. ALL DUCT CONSTRUCTION, INSTALLATION, AND SUPPORTS ARE TO COMPLY WITH LATEST EDITION OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS...
5. ROUND DUCTS AND FITTINGS SHALL BE SPIRAL SEAM CONSTRUCTION...
6. ALL WALL-MOUNTED THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 48" ABOVE FINISHED FLOOR...
7. ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE...
8. CONTRACTOR SHALL COORDINATE DIFFUSER/GRILLE LOCATIONS WITH STRUCTURE IN EXPOSED SITUATIONS...
9. CONTRACTOR SHALL PROVIDE A COPY OF THE TEST AND BALANCE REPORT BY AN AABC OR NEBB CERTIFIED AGENCY...
10. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS DURING TEST AND BALANCE AS REQUIRED TO ENSURE EQUIPMENT IS OPERATING WITHIN 10% OF THE SPECIFIED CRITERIA...
11. ALL AIR HANDLING UNITS SHALL BE MECHANICALLY ATTACHED TO OTHER AIR DISTRIBUTION SYSTEM COMPONENTS...
12. ALL DUCTWORK MUST BE INSTALLED 6" AWAY FROM ANY FIRE RATED WALL TO FACILITATE INSPECTION...
13. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION...
14. PROVIDE A FIRE DAMPER AT EVERY DUCT PENETRATION OF A FIRE-RATED WALL OR CEILING...
15. PROVIDE FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS AT EVERY LOCATION WHERE REQUIRED BY SECTION 607.5 OF THE FBC-MECHANICAL...
16. PENETRATIONS FOR PIPES, CONDUITS OR OTHER PURPOSES THROUGH ASSEMBLIES (FLOORS, ROOF, WALLS, PARTITIONS, ETC.) WITH A REQUIRED FIRE RESISTANCE RATING SHALL BE SEALED TO THE PENETRATING MEMBER...
17. PROVIDE CEILING RADIATION DAMPERS AT PENETRATIONS TO CEILING MEMBRANE OF A FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CILING ASSEMBLY...
18. INTENT OF MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS...
19. FLEXIBLE AND RIGID ROUND DUCT TAKE-OFFS FOR DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK...
20. INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE...
21. CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL, STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES REQUIRED TO INSTALL AND ADEQUATELY SUPPORT MECHANICAL EQUIPMENT AND COMPONENTS...
22. IT IS THE RESPONSIBILITY OF THE MECHANICAL INSTALLER TO PATCH AND REPAIR ANY DUCT OPENINGS WHICH RESULT FROM THE RELOCATION OR ELIMINATION OF ANY EXISTING AIR DEVICES...
23. AIR HANDLING EQUIPMENT WARRANTIES SHALL BE EQUAL TO OR EXCEED WARRANTY OF SCHEDULED EQUIPMENT...
24. PROVIDE ADDITIONAL DUCTWORK AND PIPING SUPPORTS ON BOTH SIDES AND WITHIN 18" OF EACH FIRE RATED WALL...
25. ALL RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH RADIUSSED ELBOWS UNLESS NOTED OTHERWISE...
26. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (FREE AREA)...
27. ALL HVAC EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS UNLESS INDICATED OTHERWISE...
28. CONTRACTOR SHALL THOROUGHLY CLEAN AND ENSURE PROPER OPERATION OF ANY EXISTING HVAC EQUIPMENT...
29. CONTRACTOR SHALL PROVIDE A PERMANENT/PROFESSIONAL LABEL FOR EACH PIECE OF EQUIPMENT...
30. DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER MECHANICAL SYSTEM COMPONENTS SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM...
31. LOW PRESSURE SUPPLY AND RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED SHEET METAL CONSTRUCTION...
32. EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED DUCTWORK WITH R-8 INSULATION...
33. ALL MEDIUM PRESSURE SUPPLY DUCTWORK SHALL BE EXTERNALLY INSULATED SHEET METAL CONSTRUCTION...
34. ALL EXHAUST DUCT WORK SHALL BE NON-INSULATED SHEET METAL UNLESS NOTED OTHERWISE...
35. ALL FLEXIBLE DUCTS SHALL BE LISTED AND LABELED TO UL 181 AND SHALL BE CLASS OR CLASS 1...
36. PENETRATIONS UNDERCUTS FOR THE PURPOSE OF BALANCING RETURN AIR SHALL BE MINIMUM 1", PER FBC-MECHANICAL SECTION 601.6...
37. ALL CONTROL WIRING SHALL BE INCLUDED AS PART OF MECHANICAL WORK...
38. ALL EQUIPMENT DISCONNECTS, WHETHER INTERNALLY MOUNTED OR EXTERNALLY MOUNTED, SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR...
39. MECHANICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR...
40. WHERE MOTOR SPEED CONTROL IS REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE APPROPRIATE METHOD OF SPEED CONTROL...
21. PROVIDE A TRAP IN ALL CONDENSATE PIPING LOCATED AT THE AIR HANDLING EQUIPMENT...
22. IT IS THE RESPONSIBILITY OF THE MECHANICAL INSTALLER TO PATCH AND REPAIR ANY DUCT OPENINGS WHICH RESULT FROM THE RELOCATION OR ELIMINATION OF ANY EXISTING AIR DEVICES...
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MECHANICAL NOTES

- 20. CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL, STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES REQUIRED TO INSTALL AND ADEQUATELY SUPPORT MECHANICAL EQUIPMENT AND COMPONENTS...
21. PROVIDE A TRAP IN ALL CONDENSATE PIPING LOCATED AT THE AIR HANDLING EQUIPMENT...
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23. AIR HANDLING EQUIPMENT WARRANTIES SHALL BE EQUAL TO OR EXCEED WARRANTY OF SCHEDULED EQUIPMENT...
24. PROVIDE ADDITIONAL DUCTWORK AND PIPING SUPPORTS ON BOTH SIDES AND WITHIN 18" OF EACH FIRE RATED WALL...
25. ALL RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH RADIUSSED ELBOWS UNLESS NOTED OTHERWISE...
26. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (FREE AREA)...
27. ALL HVAC EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS UNLESS INDICATED OTHERWISE...
28. CONTRACTOR SHALL THOROUGHLY CLEAN AND ENSURE PROPER OPERATION OF ANY EXISTING HVAC EQUIPMENT...
29. CONTRACTOR SHALL PROVIDE A PERMANENT/PROFESSIONAL LABEL FOR EACH PIECE OF EQUIPMENT...
30. DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER MECHANICAL SYSTEM COMPONENTS SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM...
31. LOW PRESSURE SUPPLY AND RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED SHEET METAL CONSTRUCTION...
32. EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED DUCTWORK WITH R-8 INSULATION...
33. ALL MEDIUM PRESSURE SUPPLY DUCTWORK SHALL BE EXTERNALLY INSULATED SHEET METAL CONSTRUCTION...
34. ALL EXHAUST DUCT WORK SHALL BE NON-INSULATED SHEET METAL UNLESS NOTED OTHERWISE...
35. ALL FLEXIBLE DUCTS SHALL BE LISTED AND LABELED TO UL 181 AND SHALL BE CLASS OR CLASS 1...
36. PENETRATIONS UNDERCUTS FOR THE PURPOSE OF BALANCING RETURN AIR SHALL BE MINIMUM 1", PER FBC-MECHANICAL SECTION 601.6...
37. ALL CONTROL WIRING SHALL BE INCLUDED AS PART OF MECHANICAL WORK...
38. ALL EQUIPMENT DISCONNECTS, WHETHER INTERNALLY MOUNTED OR EXTERNALLY MOUNTED, SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR...
39. MECHANICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR...
40. WHERE MOTOR SPEED CONTROL IS REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE APPROPRIATE METHOD OF SPEED CONTROL...

GENERAL NOTES

- 1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE PROVIDED (FURNISHED AND INSTALLED) UNDER THIS CONTRACT...
2. THE CONTRACTOR IS RESPONSIBLE TO EXAMINE THE EXISTING CONDITIONS UNDER WHICH HIS WORK SHALL OPERATE AND VERIFY THE EXTENT OF WORK REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT...
3. PRIOR TO ORDERING AND FABRICATING ANY EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE PHYSICAL CONDITIONS AT THE PROJECT SITE AND VERIFY SPACE AND SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES...
4. PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS...
5. ALL CONSTRUCTION WORK SHALL ALSO MEET THE FOLLOWING CODE REQUIREMENTS...
6. CONTRACTOR SHALL COORDINATE AND SEQUENCE DEMOLITION, CLEANING, AND CONSTRUCTION WORK...
7. CONTRACTOR SHALL NOTE ANY SPECIAL REQUIREMENTS FOR INSTALLATION OF WORK UNDER THIS CONTRACT...
8. THE CONTRACTOR SHALL MAINTAIN A COMPLETE PROJECT SCHEDULE AND SHALL UPDATE THIS SCHEDULE AS CHANGES SHALL BE NOTED...
9. ALL PERMITS, FEES, TAXES, ETC SHALL BE PAID BY CONTRACTOR AS PART OF THE TOTAL PROJECT COST...
10. MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS...
11. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE AND SMOKE RATED ASSEMBLY PENETRATION...
12. CONTRACTOR SHALL REFER TO ALL DETAILS FOR PROPER GUIDANCE...
13. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ALL PRODUCTS USED ON PROJECT...
14. THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF CONTRACT DOCUMENTS...
15. THE CONTRACTOR IS REQUIRED TO SUBMIT THREE COMPLETE O&M MANUALS IN THREE RING BINDERS AT SUBSTANTIAL COMPLETION...
16. CLOSE OUT DOCUMENTS: THE CONTRACTOR IS TO MAINTAIN ONE SET OF CONSTRUCTION DRAWINGS ON SITE AND KEEP CURRENT WITH MARK UP AS-BUILT CONDITIONS...
17. IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS...
21. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE PROVIDED (FURNISHED AND INSTALLED) UNDER THIS CONTRACT...
22. THE CONTRACTOR IS RESPONSIBLE TO EXAMINE THE EXISTING CONDITIONS UNDER WHICH HIS WORK SHALL OPERATE AND VERIFY THE EXTENT OF WORK REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT...
23. PRIOR TO ORDERING AND FABRICATING ANY EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE PHYSICAL CONDITIONS AT THE PROJECT SITE AND VERIFY SPACE AND SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES...
24. PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS...
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28. THE CONTRACTOR SHALL MAINTAIN A COMPLETE PROJECT SCHEDULE AND SHALL UPDATE THIS SCHEDULE AS CHANGES SHALL BE NOTED...
29. ALL PERMITS, FEES, TAXES, ETC SHALL BE PAID BY CONTRACTOR AS PART OF THE TOTAL PROJECT COST...
30. MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS...
31. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE AND SMOKE RATED ASSEMBLY PENETRATION...
32. CONTRACTOR SHALL REFER TO ALL DETAILS FOR PROPER GUIDANCE...
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35. THE CONTRACTOR IS REQUIRED TO SUBMIT THREE COMPLETE O&M MANUALS IN THREE RING BINDERS AT SUBSTANTIAL COMPLETION...
36. CLOSE OUT DOCUMENTS: THE CONTRACTOR IS TO MAINTAIN ONE SET OF CONSTRUCTION DRAWINGS ON SITE AND KEEP CURRENT WITH MARK UP AS-BUILT CONDITIONS...
37. IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS...

MECHANICAL SHEET LIST

Table with columns: Sheet Number, Sheet Name. Includes sheets M-001 through M-601.



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MECHANICAL NOTES, LEGENDS, & ABBREVIATIONS

Table with columns: #, ISSUED FOR, DATE. Includes entries for 001 - JKS and 06-26-24.

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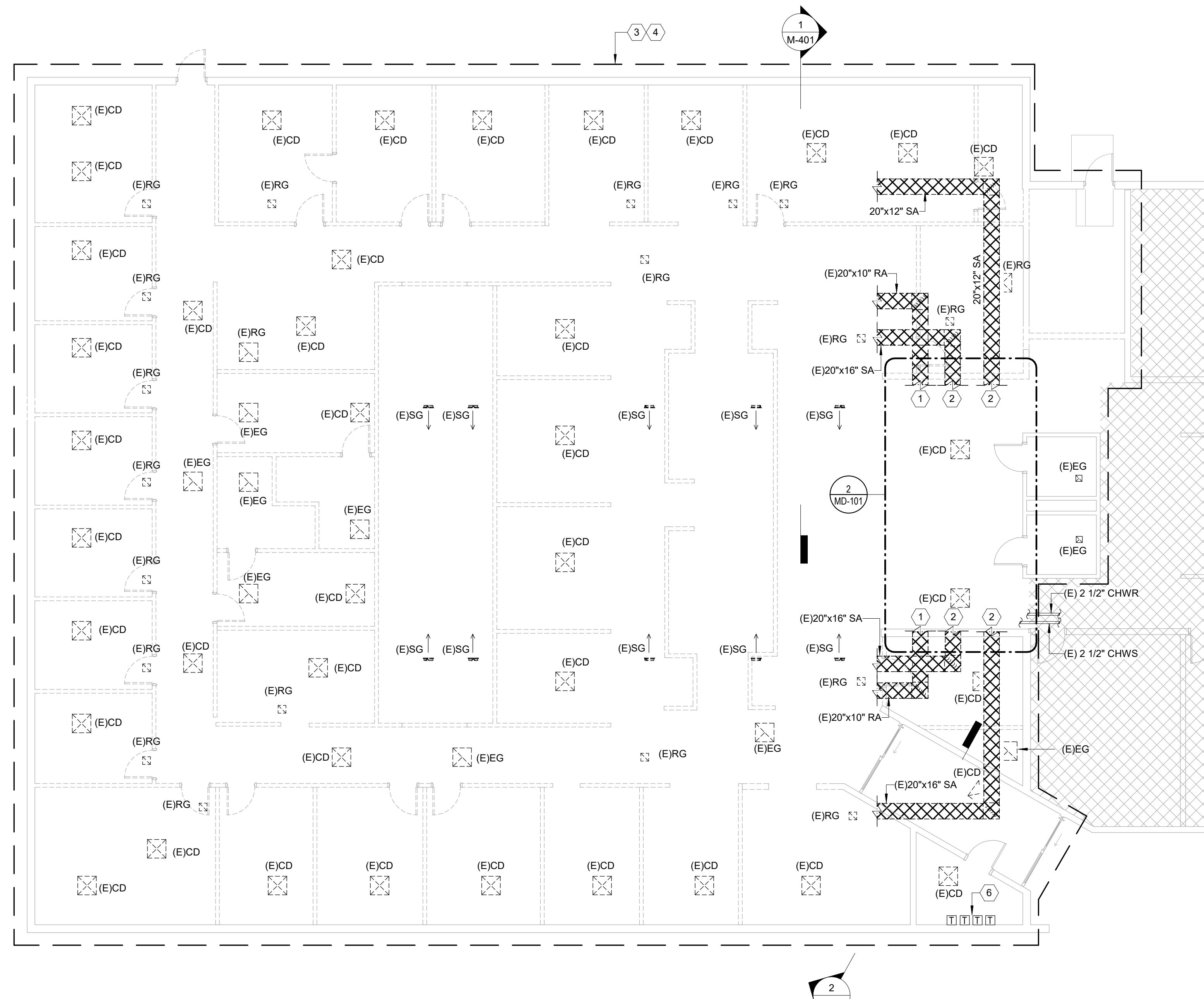
M-001

GENERAL NOTES

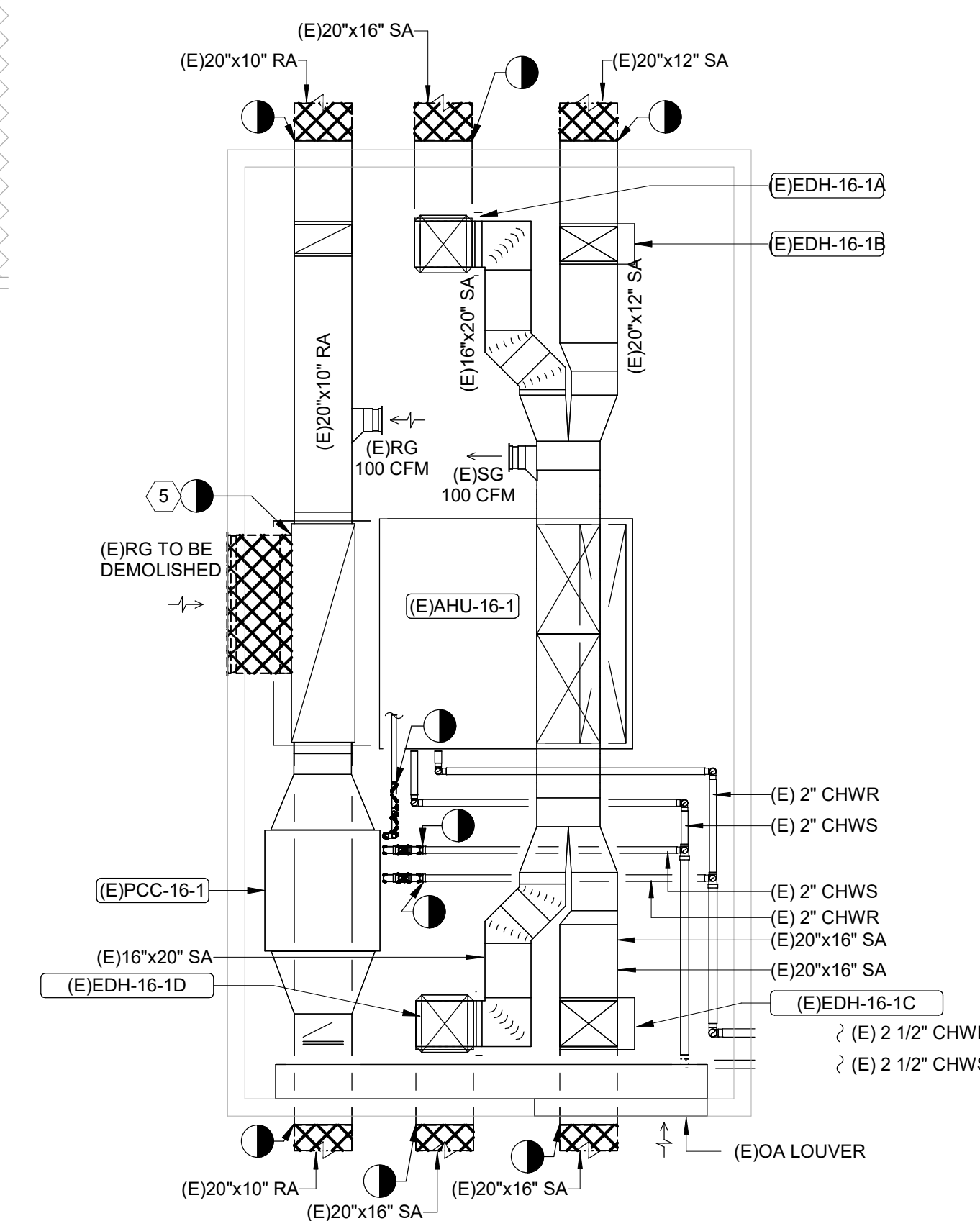
- A. EXISTING EQUIPMENT, DUCTWORK, PIPING, DIFFUSERS, GRILLES, AND ASSOCIATED COMPONENTS SHOWN ON DRAWINGS ARE APPROXIMATE LOCATIONS AND ARE PROVIDED FOR REFERENCE USE ONLY. FIELD VERIFY AND COORDINATE WITH EXACT LOCATIONS, ELEVATIONS, SIZES, AND CONDITIONS OF EXISTING COMPONENTS.
- B. ALL EXISTING EQUIPMENT TO BE REUSED SHALL BE PRESSURE TESTED, THOROUGHLY CLEANED, AND SANITIZED TO AVOID POSSIBLE CONTAMINATION.
- C. PATCH ALL HOLES THROUGH WALLS, FLOORS, AND ROOFS TO MATCH EXISTING CONSTRUCTION.

KEYNOTES

- 1 DEMOLISH RETURN DUCTWORK BACK TO MEZZANINE MECHANICAL ROOM WALL PENETRATION. REFER TO ENLARGED PLAN ON THIS SHEET FOR CONTINUATION.
- 2 DEMOLISH SUPPLY DUCTWORK BACK TO MEZZANINE MECHANICAL ROOM WALL PENETRATION. REFER TO ENLARGED PLAN ON THIS SHEET FOR CONTINUATION.
- 3 ALL EXISTING MECHANICAL SYSTEMS SHALL BE DEMOLISHED IN AREA INDICATED INCLUDING BUT NOT LIMITED TO ALL DUCTWORK, PIPING, CEILING DIFFUSERS AND GRILLES, HANGERS AND SUPPORTS, ACCESSORIES, ETC.
- 4 EXISTING EXHAUST DUCTWORK AND ASSOCIATED COMPONENTS SERVING AREA INDICATED SHALL BE DEMOLISHED BACK TO ASSOCIATED EXHAUST FAN ON ROOF. CAP, SEAL, AND INSULATE EXISTING DUCTWORK AND ABANDON IN PLACE EXISTING ROOF EXHAUST FAN.
- 5 DEMOLISH EXISTING RETURN GRILLE AND RETURN DUCTWORK BACK TO EXISTING MAIN. CAP, SEAL, AND INSULATE OPENING TO MATCH EXISTING DUCTWORK.
- 6 EXISTING THERMOSTAT FOR EDH-16-1B SHALL BE RELOCATED. REFER TO 1/MH-101 FOR NEW LOCATION. ALL OTHER EXISTING THERMOSTATS SHALL REMAIN IN CURRENT LOCATION.



1 PARTIAL FLOOR PLAN - MECHANICAL DEMOLITION - PHASE 1
1/8" = 1'-0"



2 ENLARGED PLAN - MEZZANINE PLAN - MECHANICAL DEMOLITION
1/4" = 1'-0"

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PARTIAL FLOOR PLAN - MECHANICAL DEMOLITION - PHASE 1

#	ISSUED FOR	DATE
	CD - JJA	06-20-24

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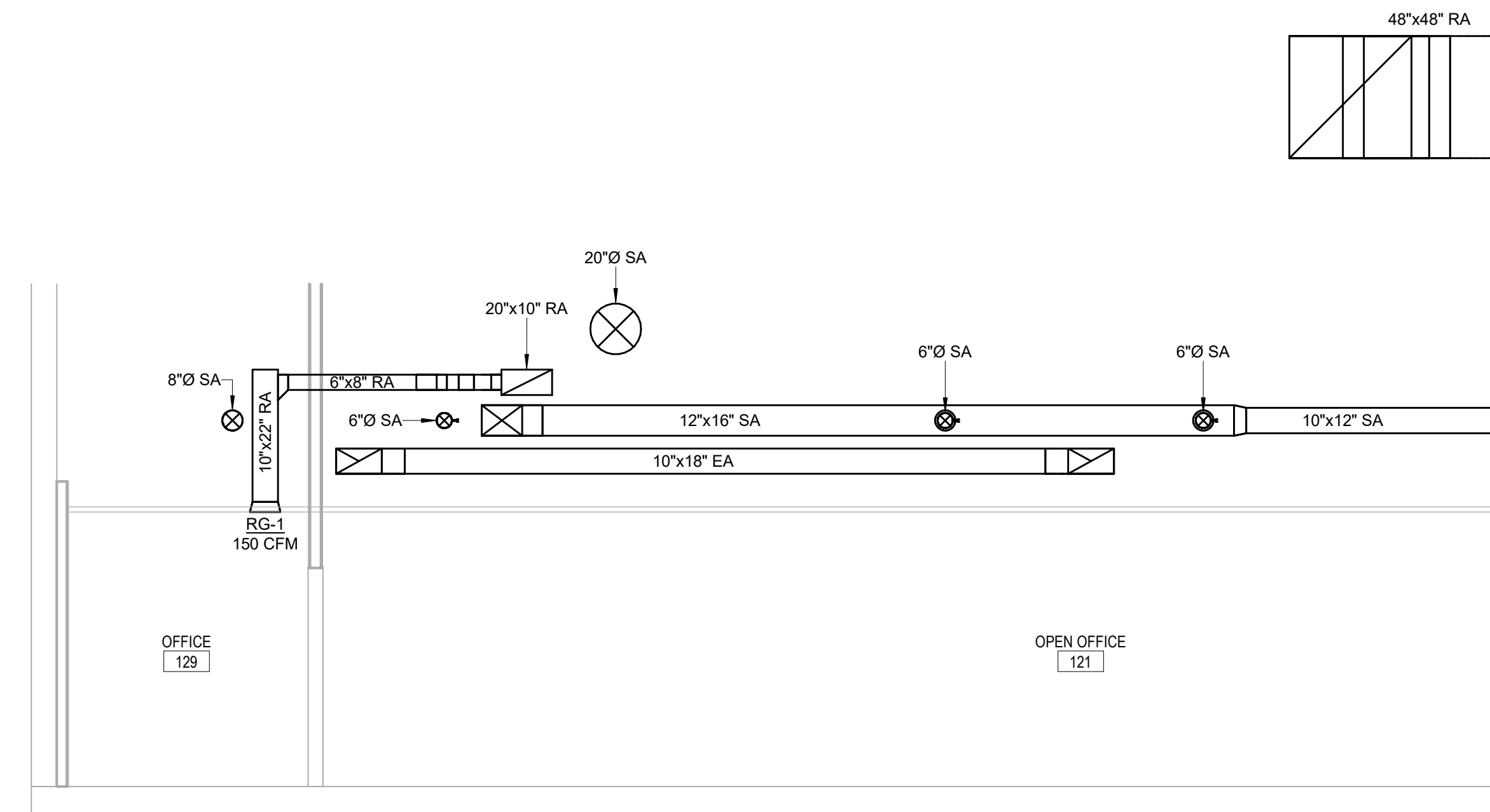
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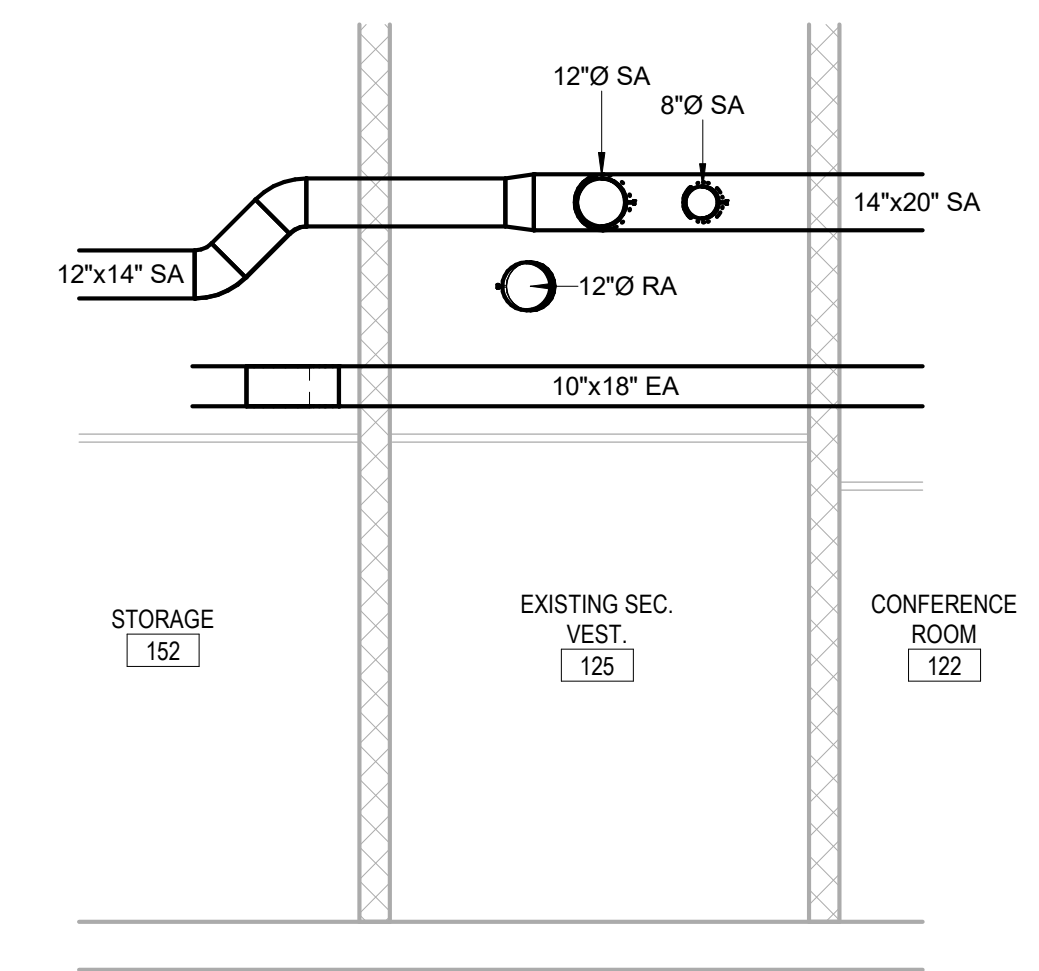
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MD-101



1 SECTION VIEW - OFFICE SPACE CEILING COORDINATION
1/4" = 1'-0"



2 SECTION VIEW - SECURED VESTIBULE CEILING COORDINATION
1/4" = 1'-0"

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MECHANICAL SECTION VIEWS

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M-401

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL #	NOMINAL TONNAGE	SUPPLY FAN							CHILLED WATER COIL							FILTERS			DIMENSIONS			NOTES	
					SUPPLY CFM	OA CFM	ESP	# OF FANS	WHEEL DIAMETER (IN.)	HP	VOLTS/Ø/HZ	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DBWB)	LAT (DBWB)	AIR ΔP (IN. W.C.)	GPM	EWTLWT	WATER ΔP (FT H2O)	TYPE	EFFICIENCY	ΔP (IN. W.C.)	LENGTH (IN.)	WIDTH (IN.)		HEIGHT (IN.)
(E)AHU-16-1	MEZZANINE MECH ROOM	DAIKIN	CAH017	12.0	9265	2840	2.00	1	22.25	7.5	460/3/60	143.6	125.9	66.3/59.2	54	-	24.00	44 / 56	-	PLEATED	MERV 8	0.66	88	80	46	1
(E)PCC-16-1	MEZZANINE MECH ROOM	DAIKIN	CAC007	18.4	-	2840	0.30	-	-	-	-	220.2	115.4	92.0/77.0	55	-	36.70	44 / 56	-	PLEATED	MERV 8	0.59	42	40	42	1

* DESIGN CONDITIONS: OUTDOOR: SUMMER-92°F/77°F WINTER-40°F INDOOR: 75°F/50% RH

NOTES:

- EXISTING AIR HANDLING UNIT TO REMAIN. EXISTING CHILLED WATER COIL TO BE REMOVED AND REPLACED WITH NEW COIL. FURNISHED BY MANUFACTURER; INSTALLED BY MECHANICAL CONTRACTOR. COIL REPLACEMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

OUTSIDE AIR CALCULATION - SINGLE ZONE (AHU-16-1)

OUTSIDE AIR CALCULATIONS BASED ON 2023 FLORIDA BUILDING CODE - MECHANICAL TABLE 403.3.1.1 "MINIMUM VENTILATION RATES"												
ROOM	AREA (FT²)	*PEOPLE /1000 FT²	PEOPLE**	CFM / PERSON	PEOPLE CFM	CFM / FT²	AREA CFM	AIR DISTRIBUTION EFFECTIVENESS	REQUIRED CFM	SUPPLIED CFM	CFM DIFFERENCE	
121 - OPEN OFFICE	1385	5	11	5	55	0.06	83.1	0.8	173	175	2	
122 - CONFERENCE ROOM	200	50	8	5	40	0.06	12	0.8	65	65	0	
123 - EXISTING SEC. VEST.	155	0	0	0	0	0.06	9.3	0.8	12	15	3	
124 - OFFICE	100	5	1	5	5	0.06	6	0.8	14	15	1	
125 - OFFICE	96	5	1	5	5	0.06	5.76	0.8	14	15	1	
126 - OFFICE	96	5	1	5	5	0.06	5.76	0.8	14	15	1	
127 - OFFICE	96	5	1	5	5	0.06	5.76	0.8	14	15	1	
128 - OFFICE	96	5	1	5	5	0.06	5.76	0.8	14	15	1	
129 - OFFICE	96	5	1	5	5	0.06	5.76	0.8	14	15	1	
130 - OFFICE	96	5	1	5	5	0.06	5.76	0.8	14	15	1	
131 - OFFICE	135	5	1	5	5	0.06	8.1	0.8	17	20	3	
132 - SECURED CORRIDOR	600	0	0	0	0	0.06	36	0.8	45	45	0	
133 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
134 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
135 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
136 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
137 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
138 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
139 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
140 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
141 - OPEN	3580	30	20	5	100	0.06	214.8	0.8	394	395	1	
142 - SHERIFF'S STATION	125	5	2	5	10	0.06	7.5	0.8	22	25	3	
146 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
147 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
148 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
149 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
150 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
151 - ISO. CELL	120	25	1	5	5	0.12	14.4	0.8	25	25	0	
152 - STORAGE	220	2	0	5	0	0.06	13.2	0.8	17	20	3	
TOTAL CFM REQ'D									1193	1215	22	

BUILDING PRESSURIZATION

MARK	OA	MARK	EA
(E)AHU-16-1	2,840	EF-1	1,280
		EF-2	1,160
Total		Total	
2,840		2,440	
OA BEING SUPPLIED		2840 CFM	
AIR BEING EXHAUSTED		-2440 CFM	
400 CFM BUILDING PRESSURIZATION			

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL #	DESCRIPTION	CFM RANGE	NECK SIZE	INSTALLATION	FINISH	MATERIAL	REMARKS
CD-1	ANEMOSTAT	SSV432	MAXIMUM SECURITY CEILING DIFFUSER W/ SLOPED, BEVELED EDGES	0 - 150	8 x 8	FLANGED	WHITE	STAINLESS STEEL	1 - 6
CD-2	ANEMOSTAT	SSV432	MAXIMUM SECURITY CEILING DIFFUSER W/ SLOPED, BEVELED EDGES	160 - 280	12 x 12	FLANGED	WHITE	STAINLESS STEEL	1 - 6
CD-3	TITUS	TDC	24" x 24" LOUVERED FACE CEILING DIFFUSER W/ ROUND NECK	0 - 110	6"Ø	LAY-IN	WHITE	ALUMINUM	1 - 5
CD-4	TITUS	TDC	24" x 24" LOUVERED FACE CEILING DIFFUSER W/ ROUND NECK	110 - 220	8"Ø	LAY-IN	WHITE	ALUMINUM	1 - 5
SG-1	ANEMOSTAT	ASLG	EXTRA HEAVY DUTY BAR GRILLE W/ FIXED LOUVERS; 11.5" x 11.5" FACE PLATE	130 - 250	8 x 8	SIDEWALL	WHITE	STAINLESS STEEL	1 - 6
SG-2	ANEMOSTAT	ASLG	EXTRA HEAVY DUTY BAR GRILLE W/ FIXED LOUVERS; 15.5" x 15.5" FACE PLATE	300 - 450	12 x 12	DUCT MOUNTED	WHITE	STAINLESS STEEL	1 - 6
SG-3	ANEMOSTAT	ASLG	EXTRA HEAVY DUTY BAR GRILLE W/ FIXED LOUVERS; 17.5" x 17.5" FACE PLATE	450 - 600	14 x 14	SIDEWALL	WHITE	STAINLESS STEEL	1 - 6
EG-1	ANEMOSTAT	SV6	BEVELED EDGE MAXIMUM SECURITY GRILLE 8.4" x 7.4" ROUGH OPENING	0 - 110	6 x 6	SEE PLANS	WHITE	STAINLESS STEEL	1 - 6
EG-2	ANEMOSTAT	SV6	BEVELED EDGE MAXIMUM SECURITY GRILLE 10.4" x 9.4" ROUGH OPENING	120 - 200	8 x 8	SEE PLANS	WHITE	STAINLESS STEEL	1 - 6
EG-3	ANEMOSTAT	SV6	BEVELED EDGE MAXIMUM SECURITY GRILLE 12.4" x 11.4" ROUGH OPENING	200 - 300	10 x 10	SEE PLANS	WHITE	STAINLESS STEEL	1 - 6
RG-1	TITUS	50F	24" x 12" EGGCRATE RETURN GRILLE 1/2" x 1/2" x 1/2" GRID	0 - 800	22 x 10	LAY-IN	WHITE	ALUMINUM	1 - 5
RG-2	TITUS	50F	24" x 12" EGGCRATE RETURN GRILLE 1/2" x 1/2" x 1/2" GRID	800 - 1750	22 x 22	LAY-IN	WHITE	ALUMINUM	1 - 5
RG-3	ANEMOSTAT	SV6	BEVELED EDGE MAXIMUM SECURITY GRILLE 20.4" x 19.4" ROUGH OPENING	500 - 650	18 x 18	SIDEWALL	WHITE	STAINLESS STEEL	1 - 6
RG-4	ANEMOSTAT	SV6	BEVELED EDGE MAXIMUM SECURITY GRILLE 12.4" x 11.4" ROUGH OPENING	200 - 300	10 x 10	SEE PLANS	WHITE	STAINLESS STEEL	1 - 6
RG-5	ANEMOSTAT	HD35-MS	RETURN GRILLE W/ FIXED LOUVERS 40° DEFLECTION; 49.875" x 49.875" FACE PLATE	3000 - 4500	48 x 48	SIDEWALL	WHITE	STAINLESS STEEL	1 - 6

NOTES:

- PAINT PER ARCHITECT.
- NECK SIZE AS LISTED. SEE PLANS FOR DUCT RUNOUT SIZE.
- SIZE GRILLE AS PER FLOOR PLAN.
- DAMPERS SHALL BE INSTALLED IN DUCTWORK FOR ALL DIFFUSERS/GRILLES UNLESS OTHERWISE INDICATED.
- INSTALL AIR DEVICES PER MANUFACTURER'S INSTRUCTIONS.
- AIR DEVICES SHALL BE MAXIMUM SECURITY RATED AND LIGATURE RESISTANT.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	CFM	ESP	HP	VOLTS/Ø	BDD	DRIVE	WEIGHT (LBS)	REMARKS
EF-1	GREENHECK	G-120-VG	ROOF	1,280	0.5	1/2	115/1	YES	DIRECT	100	1 - 4
EF-2	GREENHECK	G-120-VG	ROOF	1,160	0.5	1/2	115/1	YES	DIRECT	100	1 - 4

NOTES:

- PROVIDE WITH GRAVITY BACKDRAFT DAMPER, BIRDSCREEN, ECM MOTOR, AND SPEED CONTROLLER.
- PROVIDE FACTORY DISCONNECT SWITCH.
- ROOF CURB TO BE FURNISHED BY MANUFACTURER; INSTALLED BY MECHANICAL CONTRACTOR. ROOF CURB SHALL HAVE HIGH WIND RATING OF NO LESS THAN 160 MPH PER FBC 2023.
- FAN SHALL BE INTERLOCKED WITH (E)AHU-16-1.



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MECHANICAL SCHEDULES

#	ISSUED FOR	DATE
	01 - JJA	06-20-24

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M-601

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P-001

GENERAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE PROVIDED (FURNISHED AND INSTALLED) UNDER THIS CONTRACT. DRAWINGS SHOULD NOT BE SCALED.
- THE CONTRACTOR IS RESPONSIBLE TO EXAMINE THE EXISTING CONDITIONS UNDER WHICH THEY SHALL OPERATE AND VERIFY THE EXTENT OF WORK REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT.
- PRIOR TO ORDERING AND FABRICATING ANY EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE PHYSICAL CONDITIONS AT THE PROJECT SITE AND VERIFY SPACE AND SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES, AND TO DETERMINE ANY NECESSARY MODIFICATIONS.
- PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. IF CONFLICTS EXIST BETWEEN THESE ENGINEERING DOCUMENTS AND CODES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL CONSTRUCTION WORK SHALL ALSO MEET THE FOLLOWING CODE REQUIREMENTS:
 - FLORIDA BUILDING CODE (FBC) 2023
 - FLORIDA EXISTING BUILDING CODE 2023
 - FBC MECHANICAL 2023
 - FBC PLUMBING 2023
 - FBC ENERGY CONSERVATION 2023
 - FLORIDA FIRE PREVENTION CODE 2023
 - NFPA 1-2021, THE UNIFORM FIRE CODE
 - NFPA 101-2021, THE LIFE SAFETY CODE
 - NFPA 518-2019, STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK
 - NFPA 13-2019, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 - NFPA 70-2020, NATIONAL ELECTRICAL CODE
 - NFPA 90A-2021, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTING SYSTEMS
 - NFPA 241-2019, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS.
- CONTRACTOR SHALL COORDINATE AND SEQUENCE DEMOLITION, CLEANING, AND CONSTRUCTION WORK.
- CONTRACTOR SHALL NOTE ANY SPECIAL REQUIREMENTS FOR INSTALLATION OF WORK UNDER THIS CONTRACT. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND THE LOCATION OF INSTALLATION.
- THE CONTRACTOR SHALL MAINTAIN A COMPLETE PROJECT SCHEDULE AND SHALL UPDATE THIS SCHEDULE WEEKLY. ANY CHANGES SHALL BE NOTED AND AN UPDATED SCHEDULE SHALL BE PROVIDED TO THE OWNER.
- ALL PERMITS, FEES, TAXES, ETC SHALL BE PAID BY CONTRACTOR AS PART OF THE TOTAL PROJECT COST.
- MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE RATED WALLS, PARTITION CEILINGS, AND FLOORS. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH FIRESTOP MATERIAL IN ACCORDANCE WITH U.L. REQUIREMENTS TO MAINTAIN THE ASSEMBLY RATING.
- CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE AND SMOKE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES, OR CONDUITS, AND SHALL DISPLAY THESE DRAWINGS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL REFER TO ALL DETAILS FOR PROPER GUIDANCE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ALL PRODUCTS USED ON PROJECT.
- THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF CONTRACT DOCUMENTS UNLESS THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER TO THE SPECIFIC DEVIATION. THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN HIS OR HER SUBMITTAL DATA.
- THE CONTRACTOR IS REQUIRED TO SUBMIT THREE COMPLETE O&M MANUALS IN THREE RING BINDERS AT SUBSTANTIAL COMPLETION. MANUALS SHALL INCLUDE INSTALLATION AND MAINTENANCE DATA ON ALL NEW EQUIPMENT AND MATERIALS, CERTIFIED TECHNICAL PRODUCT DATA, EQUIPMENT SHOP DRAWINGS, SPARE PARTS DATA, ETC. PROVIDE AN INDEX AND ASSOCIATED DIVIDERS.
- CLOSE OUT DOCUMENTS: THE CONTRACTOR IS TO MAINTAIN ONE SET OF CONSTRUCTION DRAWINGS ON SITE AND KEEP CURRENT WITH MARK UP AS-BUILT CONDITIONS DURING CONSTRUCTION OF THE PROJECT. THIS SET IS TO INCLUDE ALL CONTRACT CHANGES, MODIFICATIONS AND CLARIFICATIONS. THIS SET ALONG WITH ALL SHOP DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT/ENGINEER AFTER CONSTRUCTION COMPLETION.
- IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO ALL DRAWINGS, SPECIFICATION SECTIONS, ETC. THE DRAWINGS ARE SCHEMATIC IN NATURE. THEREFORE BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL REVIEW ALL OTHER CONSTRUCTION DOCUMENTS, VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE BASE BID SHALL REFLECT THE TOTAL COST OF NEW EQUIPMENT INSTALLATION. THIS INCLUDES LABOR, EQUIPMENT AND MATERIALS. NO CHANGE ORDERS SHALL BE ISSUED WITHOUT WRITTEN CONSENT AND APPROVAL FROM ENGINEER AND ARCHITECT.

PLUMBING NOTES

- VERIFY MOUNTING HEIGHTS OF ALL BARRIER FREE FIXTURES WITH ARCHITECTURAL PLANS.
- PROVIDE COPPER INDIRECT WASTE PIPING REQUIRED FROM EQUIPMENT TO FLOOR DRAINS, OPEN RECEPTACLES, OR FLOOR SINKS. PIPING SHALL COMPLY WITH STATE AND LOCAL CODES. COORDINATE WITH ALL EQUIPMENT SUPPLIERS AND SIZES AS REQUIRED BY PIECE OF EQUIPMENT SERVED. HOLD PIPING TIGHT TO WALL WHERE APPLICABLE. PROPERLY SECURE AS REQUIRED. COORDINATE WITH CASEWORK SUPPLIER FOR MAXIMUM CLEARANCE UNDER CABINETS.
- PROVIDE CHROME PLATED ESCUTCHEONS AT ALL WALL PENETRATIONS.
- INSTALL STORM AND CONDENSATE PIPING WITH A MINIMUM SLOPE OF 1/8" PER FOOT UNLESS OTHERWISE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR PROPER DRAINAGE OF ALL SYSTEMS.
- INSTALL SANITARY PIPING LESS THAN 3" WITH A MINIMUM SLOPE OF 1/4" PER FOOT. 3" TO 6" WITH A MINIMUM SLOPE OF 1/8" PER FOOT. GREATER THAN 6" WITH A MINIMUM SLOPE OF 1/16" PER FOOT. CONTRACTOR IS RESPONSIBLE FOR PROPER DRAINAGE OF ALL SYSTEMS.
- ALL FLOOR DRAINS ARE TO BE PROVIDED WITH MINIMUM 3" DRAIN LINES, DEEP SEAL TRAPS, AND AUTOMATIC TRAP PRIMERS. TRAP PRIMERS SHALL BE LOCATED IN A SERVICEABLE LOCATION AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. HOLD TOP OF FLOOR DRAINS FLUSH WITH FINISHED FLOOR; SEE ARCHITECTURAL SHEETS FOR FLOOR SLOPES AND PROPER FINISHED FLOOR ELEVATION.
- ALL VENT PIPE TO BE COMPATIBLE WITH STRUCTURE, MECHANICAL EQUIPMENT, DUCTWORK, ELECTRICAL EQUIPMENT, AND LIGHTING. ALL VTR'S SHALL BE EXTENDED TO A MINIMUM OF 2" ABOVE PARAPET HEIGHT AND MAINTAINED 10'-0" MINIMUM FROM ALL OUTSIDE AIR INTAKES.
- MATERIALS, EQUIPMENT, ASSEMBLIES AND SYSTEMS SHALL MEET ALL PERTINENT REQUIREMENTS OF NATIONALLY RECOGNIZED TESTING ORGANIZATIONS SUCH AS UL, ASTM, ASSE, AVWVE, AGA AND NFPA AS WELL AS THE MOST CURRENT ADULTED VERSION OF THE STATE AND LOCAL CODES.
- ALL INSTALLED SYSTEMS, DEVICES AND RELATED ITEMS SHALL BE TESTED IN PLACE. REPLACE ANY AND ALL CONTRACTOR SUPPLIED DEFECTIVE DEVICES, ITEMS, OR SYSTEMS AT CONTRACTOR'S EXPENSE, BEFORE COMPLETION OF PROJECT.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADVICE TO THE ARCHITECT. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- ALL EQUIPMENT, FIXTURES AND MATERIALS SHALL BE NEW AND UNUSED, AND INSTALLED IN STRICT CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS (UNLESS OTHERWISE NOTED). PROVIDE COMPLETE WITH ALL TRIM, STOPS, HANGERS, CARRIERS, SUPPORTS, ETC., INCLUDING PROVISIONS FOR BARRIER FREE USE, IF REQUIRED. WHERE FIXTURES ARE ACCESSIBLE THEY MUST COMPLY WITH ALL FEDERAL ADA REGULATIONS.
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED, FIELD ERCTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED, AND ALL WORK IN CONNECTION WITH INSTALLATION OF MANUFACTURER'S GUARANTEED EQUIPMENT. THE CONTRACTOR'S GUARANTEE SHALL LAST ONE YEAR FROM THE FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF ANY KIND.
- ALL FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING.
- ALL BARRIER FREE WATER CLOSET CONTROLS SHALL BE LOCATED ON UNIT TOWARDS WIDE SIDE OF STALL. VERIFY IF RIGHT OR LEFT SIDE LOCATION.

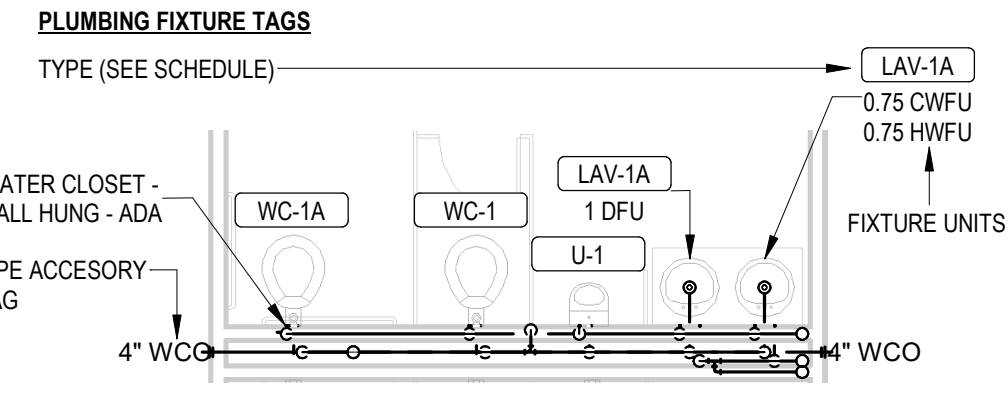
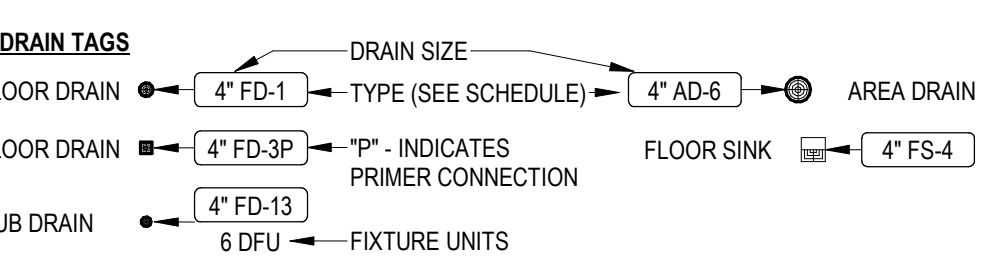
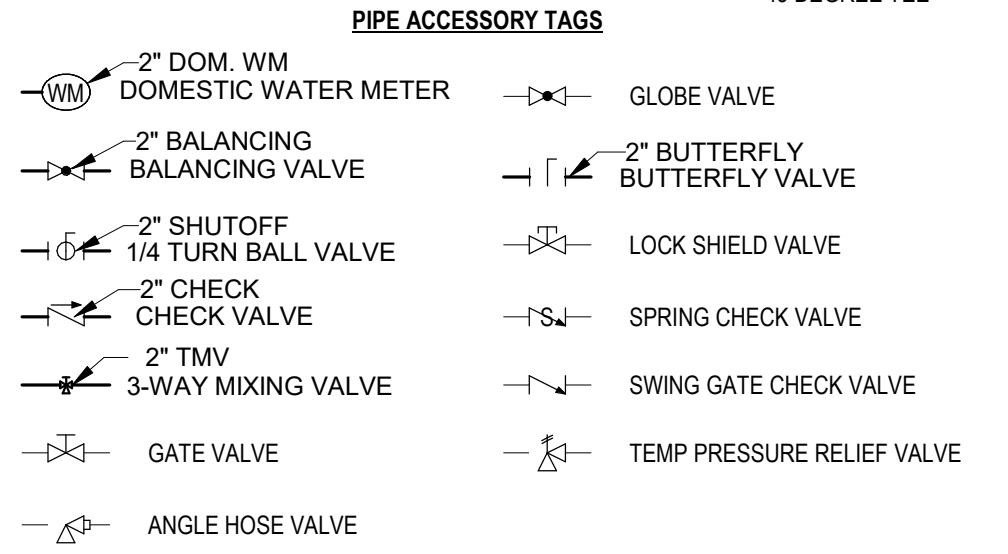
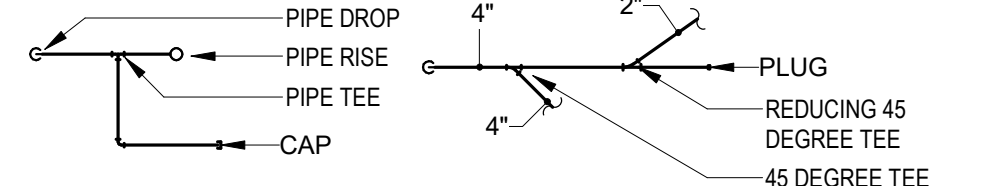
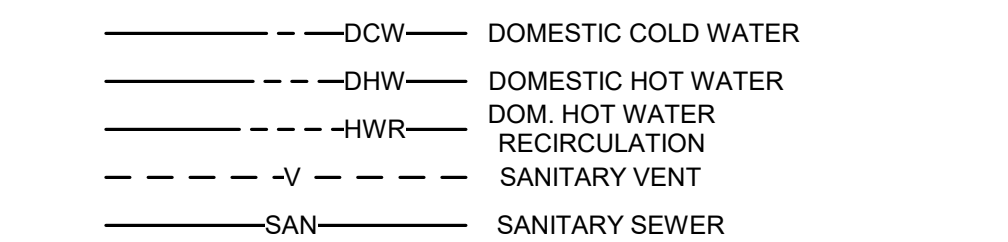
PLUMBING ACCESSORIES

- FD:**
- FLOOR DRAIN - ZURN ZN415B-P-6P: 6" CAST-IRON FLOOR DRAIN BODY AND COLLAR, 3" THREADED DRAIN OUTLET WITH 3" DEEP SEAL P-TRAP, 1/2" TRAP-SEAL PRIMER CONNECTION WITH PRESSURE ACTIVATED TRAP PRIMER VALVE. PROVIDE WITH VANDAL-PROOF SECURED TOP.
 - TRAP PRIMER - ZURN Z-1022 SANI-GUARD; CONNECT TO CW WITH VALVE. EXTEND TRAP PRIMER TO FLOOR DRAIN AS REQUIRED. 1/2" CW.
- FCO:**
- FLOOR CLEANOUT - ZURN ZN1400-K; CAST-IRON ADJUSTABLE HOUSING FLOOR CLEANOUT; RAISED, TAPERED THREAD BRONZE CLOSURE PLUG; NEOPRENE RUBBER GASKET; NICKEL-BRONZE ROUND SCORED TOP COVER, INSIDE CAULK OUTLET. SAME SIZE AS CONNECTED DRAINAGE PIPING; ASME A112.36.2M.
- WCO:**
- WALL CLEANOUT - ZURN Z1446; CAST-IRON CLEANOUT TEE; RECESSED, TAPERED THREAD BRONZE PLUG; STAINLESS STEEL OR CHROME-PLATED BRASS WALL ACCESS COVER PLATE; SAME SIZE AS CONNECTED DRAINAGE PIPING; ASME A112.36.2M.
- GCO:**
- GRADE CLEANOUT - ZURN ZN1400-HD; CAST-IRON ADJUSTABLE HOUSING CLEANOUT FERRULE; RECESSED, TAPERED THREAD, BRONZE CLOSURE PLUG; NEOPRENE RUBBER GASKET; SAME SIZE AS CONNECTED DRAINAGE PIPING; INSTALL IN 24" X 24" X 12" DEEP CONCRETE PAD FLUSH WITH GRADE; ASME A112.36.2M. INSTALL END-OF-LINE CLEANOUT WITH LONG SWEEP ELBOW; INSTALL 2-WAY CLEANOUT WITH 2-WAY CLEANOUT FITTING.
- PCO:**
- PINNED CLEANOUT - ACORN PC; 2-1/2" NPT BRASS CLEAN-OUT PLUG. PERMANENT 5/32" STAINLESS STEEL PIN.

PLUMBING NOTES

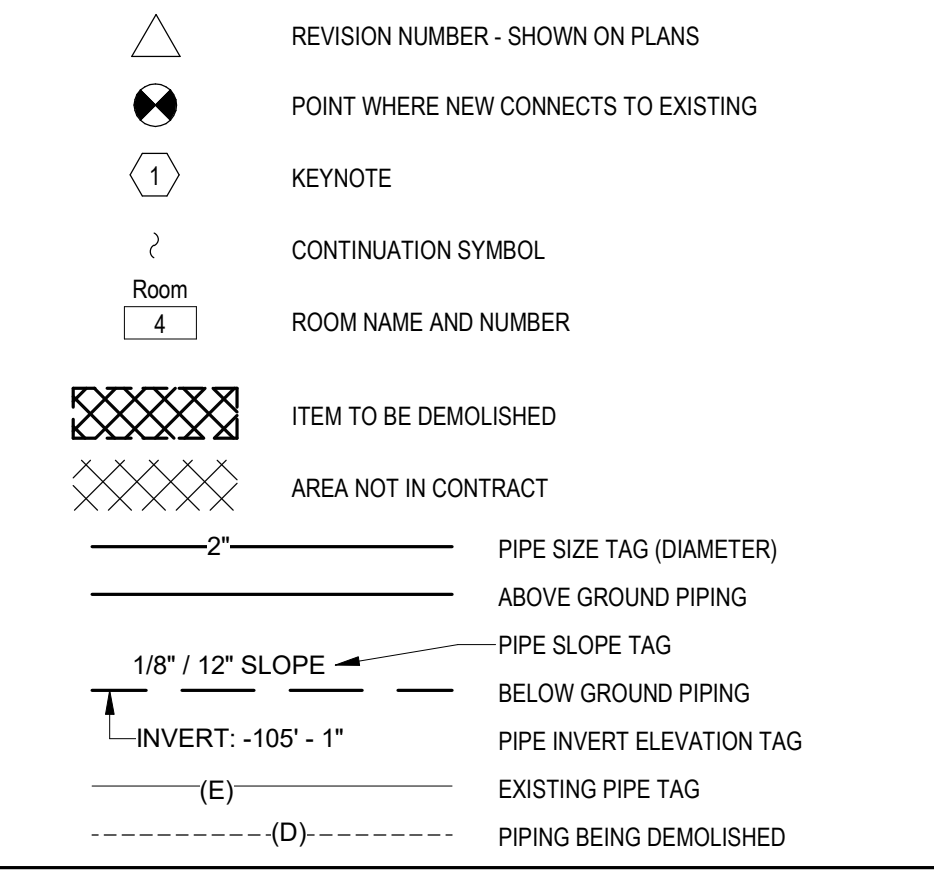
- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE 2023 FLORIDA PLUMBING CODE, WHERE CONFLICTS OCCUR BETWEEN CODES, OR BETWEEN CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- REVIEW PLANS OF ALL TRADES PRIOR TO BIDDING AND BEGINNING WORK. INSTALLATIONS SHALL INCLUDE ALL PLUMBING FOR COMPLETE SYSTEMS SHOWN ON THE PLANS AND AS REQUIRED.
- COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, STRUCTURE, ELECTRICAL, LIGHTING, AND OTHER PIPING IN THE CEILING SPACE. VENT PIPING AND WATER PIPING SHALL BE HELD EITHER ABOVE OR BELOW HVAC DUCTWORK, AS COORDINATED WITH THE HVAC CONTRACTOR.
- ALL CHANGES SHALL BE REVIEWED BY THE ARCHITECT.
- COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGH-IN PLUMBING FIXTURES AND EQUIPMENT SUPPLIES.
- THE PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES, UNLESS NOTED OTHERWISE.
- VERIFY MOUNTING HEIGHT AND WATER CONNECTION SIZES OF ALL PLUMBING FIXTURES PRIOR TO ROUGH-IN. FURNISH CUT-OUT TEMPLATES, FOR PLUMBING FIXTURES TO BE INSTALLED IN MILLWORK, TO THE GENERAL CONTRACTOR.
- MAKE PROPER HOT AND COLD WATER, WASTE AND VENT PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL FITTINGS AND CONNECTIONS ARE NOT SHOWN ON DRAWINGS.
- VERIFY LOCATION OF WATER SERVICE AND THE LOCATION/INVERTS OF SANITARY PIPING PRIOR TO INSTALLATION.
- CUT AND PATCH CONCRETE AS REQUIRED.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
- THE EQUIPMENT ROUGH-IN ITEMS AND THEIR DIMENSIONED LOCATIONS FOR ALL CONNECTIONS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. IN SOME INSTANCES THE OWNER OR SUPPLIER MAY MAKE SUBSTITUTIONS OR EQUIPMENT ITEMS MAY VARY FROM WHAT IS SHOWN. THEREFORE, THESE ITEMS AND DIMENSIONS SHALL BE VERIFIED WITH THE EQUIPMENT SUPPLIER, OWNER AND/OR EQUIPMENT ROUGH-IN DRAWING. FAILURE OF THE APPROPRIATE CONTRACTOR TO VERIFY ROUGH-INS OR THEIR LOCATIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION AND/OR ADDITIONAL ROUGH-INS DIRECTLY UPON THAT CONTRACTOR.
- CONTRACTOR SHALL SUPPLY TO THE ARCHITECT/ENGINEER THE REQUIRED COPIES OF SHOP DRAWINGS FOR APPROVAL SO THE QUALITY OF INTENDED MATERIALS OR EQUIPMENT CAN BE REVIEWED BEFORE INSTALLATION. THERE WILL BE NO INSTALLATION UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED AND REVIEWED BY THE ARCHITECT/ENGINEER.
- DO NOT SCALE THIS DRAWING. REFER TO ARCHITECTURAL FLOOR PLAN FOR BUILDING DIMENSIONS.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DESIGNED AROUND BASIS OF DESIGN PRODUCTS WHICH HAVE ESTABLISHED THE PERFORMANCE CRITERIA FOR THIS PROJECT. PRODUCTS SUBMITTED BY THE CONTRACTOR MAY BE ARRANGED DIFFERENTLY AND THE PRODUCTION OF CONTRACTOR COORDINATED DRAWINGS IS REQUIRED TO BE SUBMITTED PRIOR TO THE START OF CONSTRUCTION. THESE DIAGRAMMATIC DRAWINGS DO NOT NECESSARILY SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES, FITTINGS, AND ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATION OF WORK. THE SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE.
- VERIFY SERVICE POINTS AND METERING LOCATIONS FOR PROJECTS WITH LOCAL UTILITIES AND/OR LANDLORD (DOMESTIC WATER, SANITARY SEWER, GAS, ETC.).
- THE CONTRACTOR SHALL COOPERATE FULLY AMONG ALL TRADES.
- ALL ROOF PENETRATIONS FOR ROOF DRAINS AND PLUMBING SHALL BE MADE IN ACCORDANCE WITH ROOF SYSTEM MANUFACTURER'S GUIDELINES. COORDINATE WITH ARCHITECTURAL DETAILS AND/OR MANUFACTURER FOR ROOF SYSTEM USED.
- ALL PLUMBING VENTS IN EXTERIOR WALLS SHALL BE OFFSET A MINIMUM OF 3'-0" BEFORE ROOF PENETRATION.
- INSTALL 1" INSULATION WITH ALL-SERVICE JACKET ON ALL ROOF LEADERS ABOVE CEILING.
- INSTALL PLENUM RATED INSULATION WRAP ON ALL PLASTIC VENT, SANITARY AND STORM PIPING LOCATED WITHIN A RETURN AIR PLENUM.
- PLUMBING CONTRACTOR SHALL VERIFY WITH THE LOCAL HEALTH DEPARTMENT AND/OR WATER COMPANY AS TO THE METER AND VALVING ARRANGEMENTS OF THE DOMESTIC WATER SERVICE LINE WHICH ENTERS THE BUILDING. SHOULD A BACKFLOW PREVENTER ASSEMBLY AND/OR PRESSURE REDUCING VALVE ASSEMBLY BE REQUIRED, PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL AS REQUIRED PER LOCAL AND STATE REQUIREMENTS. THE BACKFLOW ASSEMBLY SHALL BE A "WATTS" SERIES #908 OR APPROVED EQUAL, MEETING ASSE STANDARDS 1013, 1015, & 1020. IF BACKFLOW PREVENTER IS REQUIRED, PROVIDE PROPERLY SIZED THERMAL EXPANSION TANK IN SUPPLY PIPING OF WATER HEATER. IF WATER PRESSURE IS 65 PSI OR ABOVE, THE PRESSURE REDUCING VALVE ASSEMBLY SHALL BE A "WATTS" SERIES #U5 SET AT 50 PSI DELIVERY PRESSURE, UNLESS OTHERWISE NOTED.
- THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACKFLOW AND SIPHONAGE, BOTH NATURAL AND INDUCED. ALL EQUIPMENT CONNECTED TO THE POTABLE WATER SYSTEM BEING CAPABLE OF POLLUTING OR CONTAMINATING THE POTABLE WATER DISTRIBUTION SYSTEM OR ANY PART THEREOF BY MEANS OF A REVERSAL OF FLOW, PRESSURE DROP, PRESSURE LOSS, INDUCED VACUUM, OR BY INJECTION BECAUSE OF ANY PRIMARY OR AUXILIARY PUMPING SYSTEM CONNECTED, MUST BE ISOLATED AND CONTAINED BY MEANS OF APPROVED BACKFLOW DEVICES, CHECK VALVES, AIR GAPS, OR VACUUM BREAKERS. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL THESE DEVICES PER LOCAL CODE REQUIREMENTS.
- THE WATER PIPING SYSTEM SHALL BE FLUSHED AND STERILIZED IN ACCORDANCE WITH LOCAL REGULATIONS.
- HOT AND COLD WATER SUPPLY BRANCHES FOR ALL SYSTEMS HAVING QUICK CLOSING VALVES OF ANY TYPE SHALL HAVE WATER HAMMER ARRESTORS INSTALLED AT THE HIGH POINT ON THE END OF EACH BRANCH AND AS REQUIRED.
- ALL PIPES HANGING FROM SINGLE VERTICAL RODS / HANGERS SHALL NOT MOVE OR SWAY DURING OPERATION. SUITABLE LATERAL SUPPORTS OR BRACING SHALL BE USED TO PREVENT SWAY OR MOVEMENT.
- PROVIDE SHUTOFF BALL VALVES AND DIELECTRIC UNIONS FOR ALL EQUIPMENT HOT AND COLD WATER LINES. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT REQUIREMENTS.

PLUMBING AND PIPING SYMBOLS



NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL MECHANICAL SYMBOLS



ABBREVIATIONS

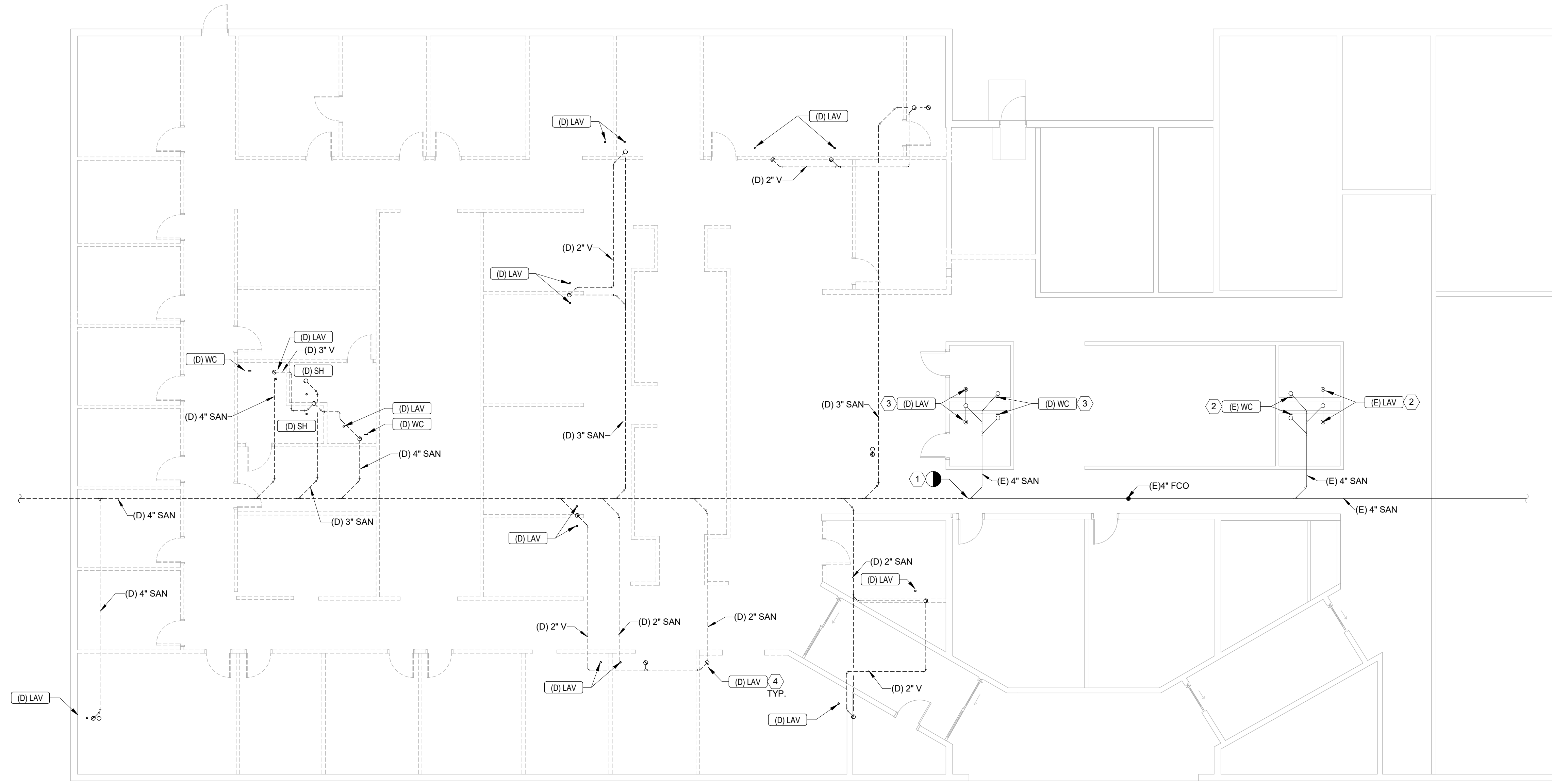
ABV	ABOVE	NO	NUMBER
AD	AREA DRAIN	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	PD	PRESSURE DROP
BBF	BELOW FINISHED FLOOR	PLBG	PLUMBING
BLW	BELOW	PRESS	PRESSURE
CLG	CEILING	PRV	PRESSURE REDUCING VALVE
CO	CLEAN OUT	PSF	POUNDS PER SQUARE INCH
CW	COLD WATER	RD	ROOF DRAIN
D	DEGREE	RED	REDUCER
DN	DOWN	SF	SQUARE FOOT
DOM.	DOMESTIC	SAN	SANITARY
ET	EXPANSION TANK	SP	STATIC PRESSURE
EWC	ELECTRIC WATER COOLER	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TYP	TYPICAL
EXIST	EXISTING	V	VENT
F	FAHRENHEIT	VTR	VENT THROUGH ROOF
FO	FLOOR CLEAN OUT	WCO	WALL CLEAN OUT
FD	FLOOR DRAIN	WH	WALL HYDRANT
FL	FLOOR		
FS	FLOOR SINK		
FT	FOOT/FEET		
GPM	GALLONS PER MINUTE		
GWH	GAS WATER HEATER		
HB	HOSE BIBB		
HW	HOT WATER		
IN	INCH		
LWT	LEAVING WATER TEMPERATURE		
NIC	NOT IN CONTRACT		

PLUMBING FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	ROUGH-IN PIPE SIZES				WATER SUPPLY DURATION		DRAINAGE	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL
		COLD WATER SUPPLY	HOT WATER SUPPLY	FIXTURE TRAP	FIXTURE DRAIN	COLD WATER	HOT WATER			
WC-1	COMBINATION LAVATORY AND WATER CLOSET - 14 GAUGE TYPE 304 STAINLESS STEEL, FLOOR MOUNTED, WALL OUTLET, MECHANICAL FLUSH VALVE, 1.28 GPF. PROVIDE WITH PENAL BUBBLER.	1-1/4"	N/A	LAV: 2" WC: 4"	LAV: 2" WC: 4"	LAV: 0.5 WC: 6"	LAV: 0.5 WC: -	LAV: 1, WC: 4	ACORN	1418-2-BP-04-FV-PHC
WC-2	WATER CLOSET - 14 GAUGE TYPE 304 STAINLESS STEEL, FLOOR MOUNTED, WALL OUTLET, MECHANICAL FLUSH VALVE, 1.6 GPF.	1"	N/A	4"	4"	6	N/A	4	ACORN	1695
WC-3	WATER CLOSET - BARRIER FREE FLOOR MOUNTED 17" HIGH, ELONGATED, 1-1/2" TOP SPUD, VITREOUS CHINA, 1.6 GPF. ROUND FRONT SEAT COVER, STAINLESS STEEL HINGE. PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.	1"	N/A	4"	4"	6	N/A	4	AMERICAN STANDARD; SLOAN	215BA; 111
LAV-1	LAVATORY - TERREON CONSTRUCTION. WALL MOUNTED, ELECTRONICALLY OPERATED.	1/2"	1/2"	2"	2"	1.5	1.5	1	ACORN	HSL1
LAV-2	LAVATORY, BARRIER FREE - 20X18" VITREOUS CHINA, WALL HUNG, SINGLE HOLE. PROVIDE FLOOR CARRIER WITH CONCEALED ARMS. CHROME FAUCET, GRID DRAIN ASSEMBLY, TOP OF FRONT RIM MOUNTED 3/4" FROM FINISHED FLOOR. PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO MAKE A COMPLETE INSTALLATION.	1/2"	1/2"	2"	2"	0.5	0.5	1	AMERICAN STANDARD; DELTA	0355; 27C4974
MS-1	MOP SINK - 24X24X10" ONE-PIECE CONSTRUCTION, INTEGRALLY MOLDED CENTER DRAIN WITH SEAL. PROVIDE WITH HOSE AND HOSE HOOK, MOP BRACKET, VACUUM BREAKER, AND WALL GUARDS.	1/2"	1/2"	3"	3"	2.25	2.25	2	FIAT; MOEN	TSB-3010; 8230
SH-1	SHOWER - 14 GAUGE TYPE 304 STAINLESS STEEL, PNEUMATICALLY OPERATED, PRESSURE BALANCING MIXING VALVE, AND INTEGRAL SERVICE STOPS.	1/2"	1/2"	2"	2"	3	3	2	ACORN	1741-8MV-RD

- KEYNOTES**
- 1 REMOVE AND PROPERLY DISPOSE OF 4" SANITARY PIPING FROM LIMIT OF DEMOLITION BACK TO CITY MAIN. REFER TO CIVIL FOR MORE INFORMATION.
 - 2 NOTED PLUMBING FIXTURES EXISTING TO REMAIN.
 - 3 REMOVE AND PROPERLY DISPOSE OF EXISTING PLUMBING FIXTURES.
 - 4 REMOVE AND PROPERLY DISPOSE OF EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING.

- PLUMBING GENERAL NOTES**
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES, OR FITTINGS REQUIRED TO COMPLETE INSTALLATION.
 - B. EXISTING CONDITIONS ARE BASED ON FIELD OBSERVATIONS AND 'AS-BUILT' DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING EXISTING INSTALLATION.
 - C. CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION POINTS TO EXISTING SYSTEM PIPING AFFECTED.
 - D. ALL EXISTING PIPING TO BE REUSED SHALL BE PRESSURE TESTED, THOROUGHLY CLEANED, AND SANITIZED TO AVOID POSSIBLE CONTAMINATION.
 - E. PLUMBING CONTRACTOR SHALL ENSURE NO DEAD LEGS ARE LEFT IN ANY PIPING WITHIN THE AREA OF WORK.



1 PLUMBING DEMOLITION PLAN - SANITARY AND VENT
 1/8" = 1'-0"

#	ISSUED FOR	DATE
	02 - JJA	02-20-24

DRAWN BY: JTD
 REVIEW BY: NPS

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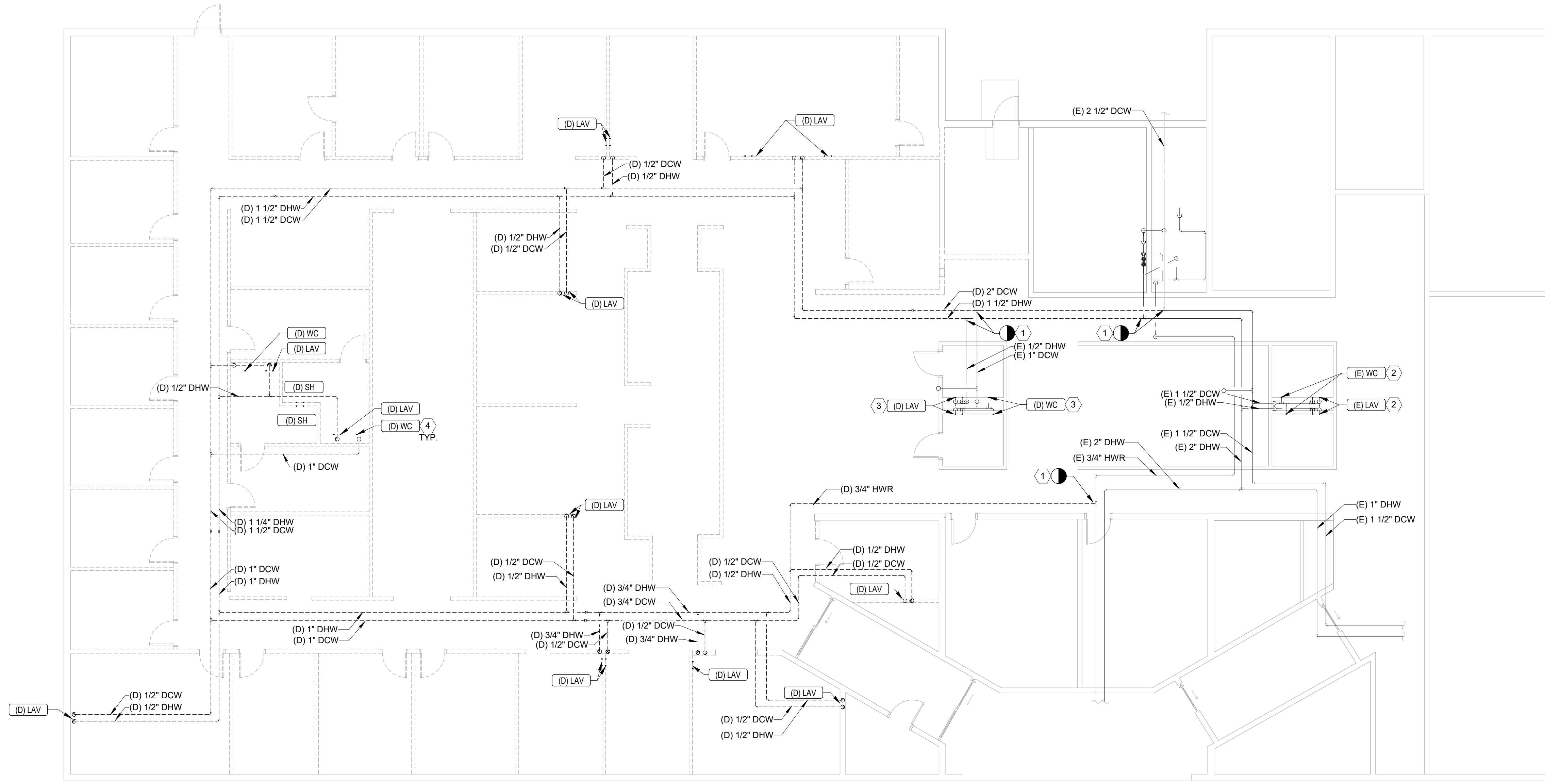
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PD-101

- KEYNOTES**
- 1 REMOVE AND PROPERLY DISPOSE OF EXISTING PIPING BACK TO LIMIT OF DEMOLITION.
 - 2 NOTED PLUMBING FIXTURES EXISTING TO REMAIN.
 - 3 REMOVE AND PROPERLY DISPOSE OF EXISTING PLUMBING FIXTURES.
 - 4 REMOVE AND PROPERLY DISPOSE OF EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING.

- PLUMBING GENERAL NOTES**
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES, OR FITTINGS REQUIRED TO COMPLETE INSTALLATION.
 - B. EXISTING CONDITIONS ARE BASED ON FIELD OBSERVATIONS AND 'AS-BUILT' DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING EXISTING INSTALLATION.
 - C. CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION POINTS TO EXISTING SYSTEM PIPING AFFECTED.
 - D. ALL EXISTING PIPING TO BE REUSED SHALL BE PRESSURE TESTED, THOROUGHLY CLEANED, AND SANITIZED TO AVOID POSSIBLE CONTAMINATION.
 - E. PLUMBING CONTRACTOR SHALL ENSURE NO DEAD LEGS ARE LEFT IN ANY PIPING WITHIN THE AREA OF WORK.



1 PLUMBING DEMOLITION PLAN - DOMESTIC WATER
1/8" = 1'-0"



HCSO MENTAL HEALTH CLINIC

Enter address here

PLUMBING DEMOLITION PLAN - DOMESTIC WATER

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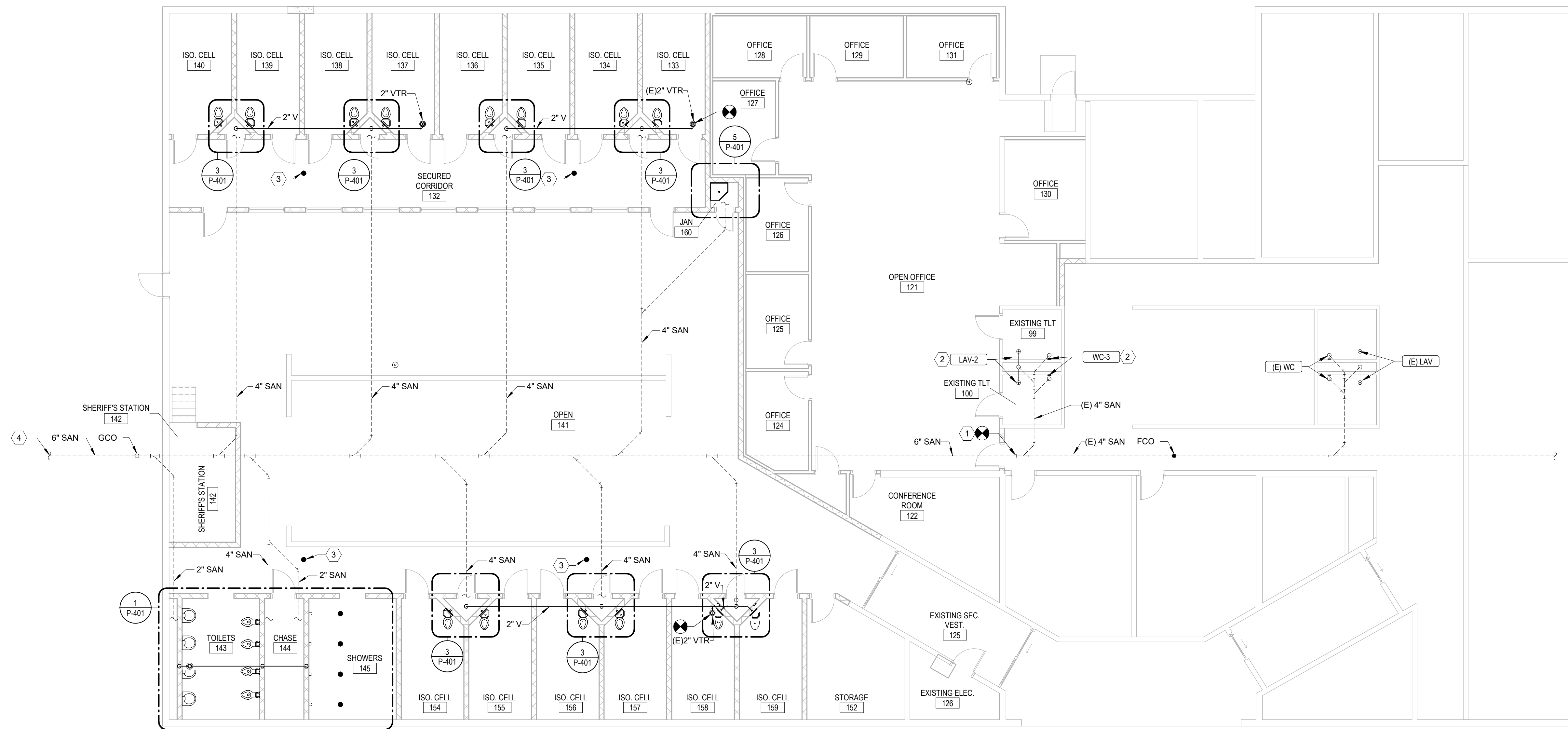
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PD-201

- KEYNOTES**
- 1 CONNECT NEW 6" SANITARY MAIN TO EXISTING 4" MAIN.
 - 2 EXISTING PLUMBING FIXTURES SHALL BE REPLACED. PIPING SHALL BE REUSED AND CONNECTED TO REPLACED FIXTURES.
 - 3 FURNISH AND INSTALL FLOOR DRAINS OUTSIDE OF CELLS.
 - 4 CONNECT NEW 6" SANITARY TO CITY MAIN. REFER TO CIVIL FOR MORE INFORMATION.

- PLUMBING GENERAL NOTES**
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES, OR FITTINGS REQUIRED TO COMPLETE INSTALLATION.
 - B. EXISTING CONDITIONS ARE BASED ON FIELD OBSERVATIONS AND 'AS-BUILT' DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING EXISTING INSTALLATION.
 - C. CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION POINTS TO EXISTING SYSTEM PIPING AFFECTED.
 - D. ALL EXISTING PIPING TO BE REUSED SHALL BE PRESSURE TESTED, THOROUGHLY CLEANED, AND SANITIZED TO AVOID POSSIBLE CONTAMINATION.
 - E. PLUMBING CONTRACTOR SHALL ENSURE NO DEAD LEGS ARE LEFT IN ANY PIPING WITHIN THE AREA OF WORK.



1 PLUMBING RENOVATION PLAN - SANITARY AND VENT
1/8" = 1'-0"

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PLUMBING RENOVATION PLAN - SANITARY AND VENT

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KEYNOTES

1 PROVIDE DOMESTIC HOT, COLD, AND RECIRCULATION PIPING TO NEW PLUMBING FIXTURES AND CONNECT TO EXISTING PIPING OUTSIDE OF MECHANICAL ROOM.

PLUMBING GENERAL NOTES

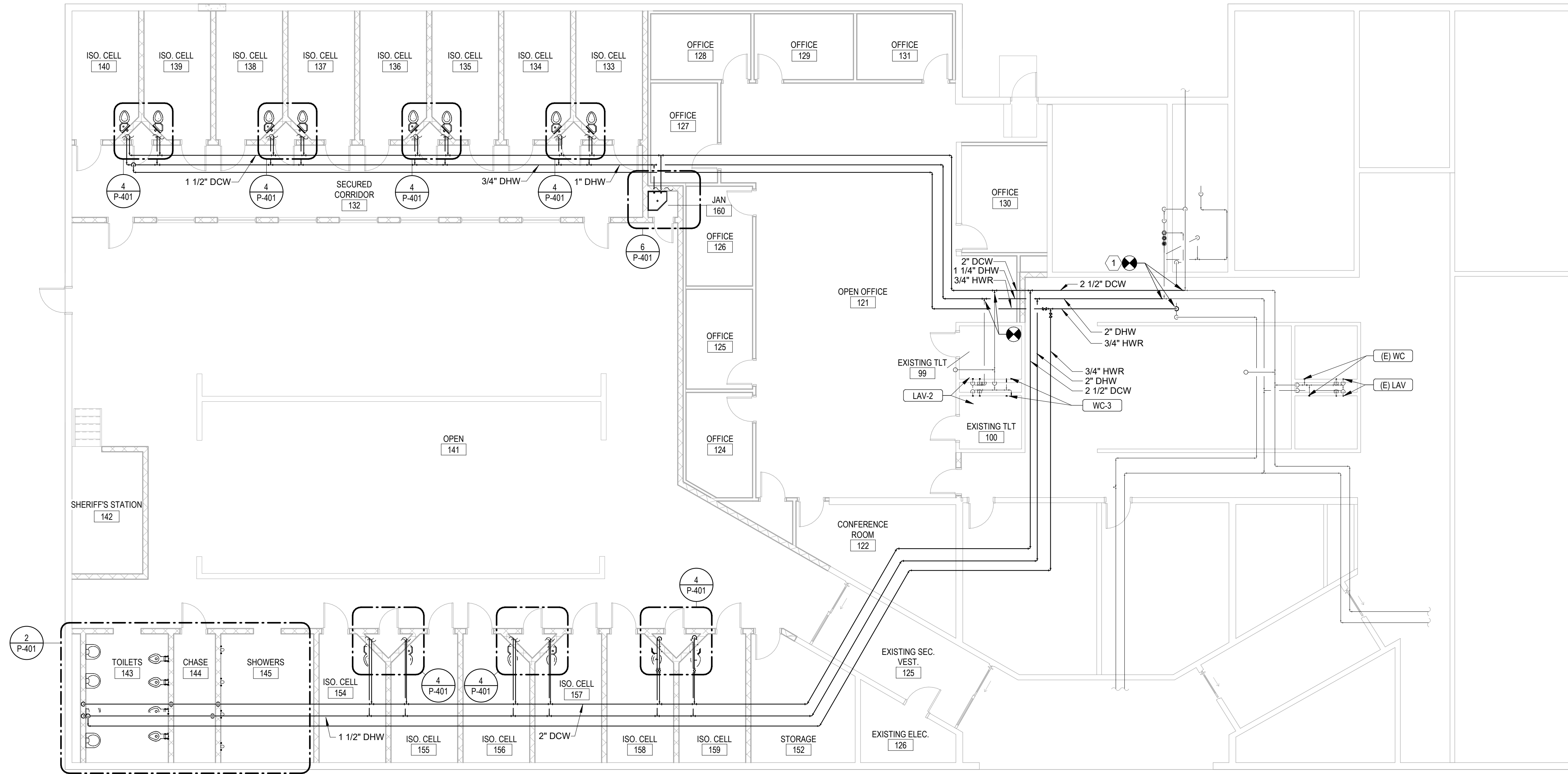
A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES, OR FITTINGS REQUIRED TO COMPLETE INSTALLATION.

B. EXISTING CONDITIONS ARE BASED ON FIELD OBSERVATIONS AND 'AS-BUILT' DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING EXISTING INSTALLATION.

C. CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION POINTS TO EXISTING SYSTEM PIPING AFFECTED.

D. ALL EXISTING PIPING TO BE REUSED SHALL BE PRESSURE TESTED, THOROUGHLY CLEANED, AND SANITIZED TO AVOID POSSIBLE CONTAMINATION.

E. PLUMBING CONTRACTOR SHALL ENSURE NO DEAD LEGS ARE LEFT IN ANY PIPING WITHIN THE AREA OF WORK.



1 PLUMBING RENOVATION PLAN - DOMESTIC WATER
1/8" = 1'-0"

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PLUMBING RENOVATION PLAN - DOMESTIC WATER

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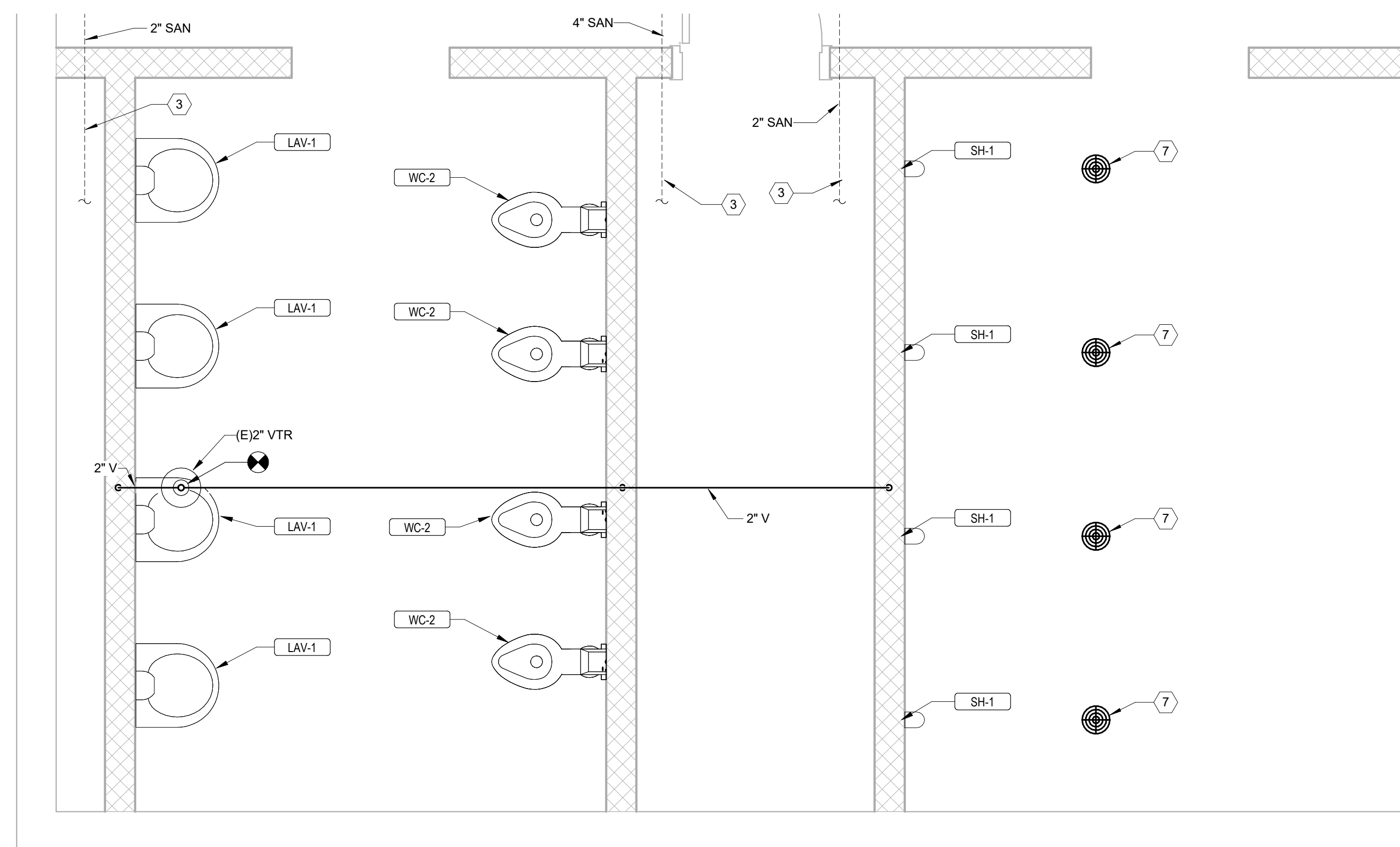
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PLUMBING GENERAL NOTES

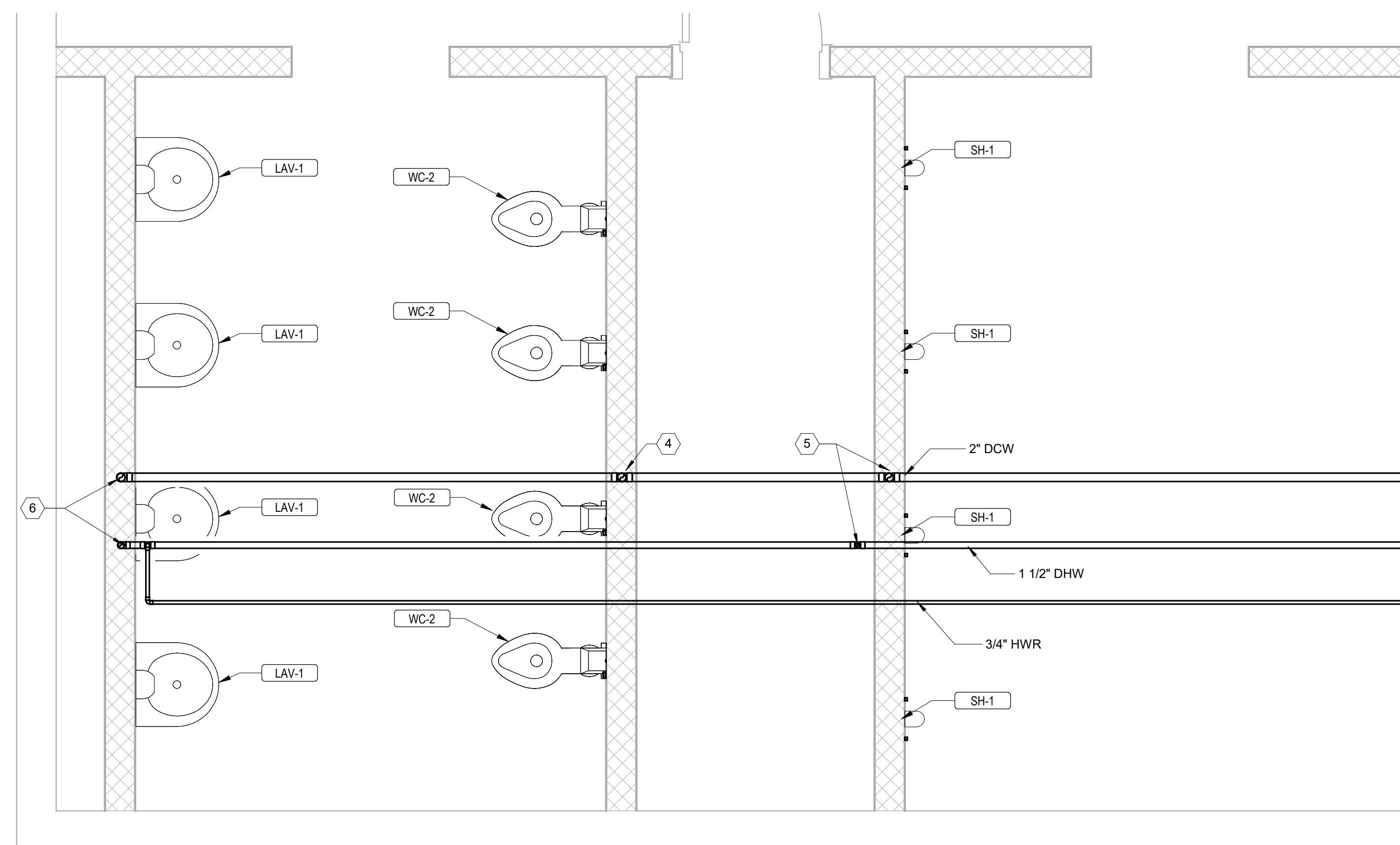
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES, OR FITTINGS REQUIRED TO COMPLETE INSTALLATION.
- B. EXISTING CONDITIONS ARE BASED ON FIELD OBSERVATIONS AND 'AS-BUILT' DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING EXISTING INSTALLATION.
- C. CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION POINTS TO EXISTING SYSTEM PIPING AFFECTED.
- D. ALL EXISTING PIPING TO BE REUSED SHALL BE PRESSURE TESTED, THOROUGHLY CLEANED, AND SANITIZED TO AVOID POSSIBLE CONTAMINATION.
- E. PLUMBING CONTRACTOR SHALL ENSURE NO DEAD LEGS ARE LEFT IN ANY PIPING WITHIN THE AREA OF WORK.

KEYNOTES

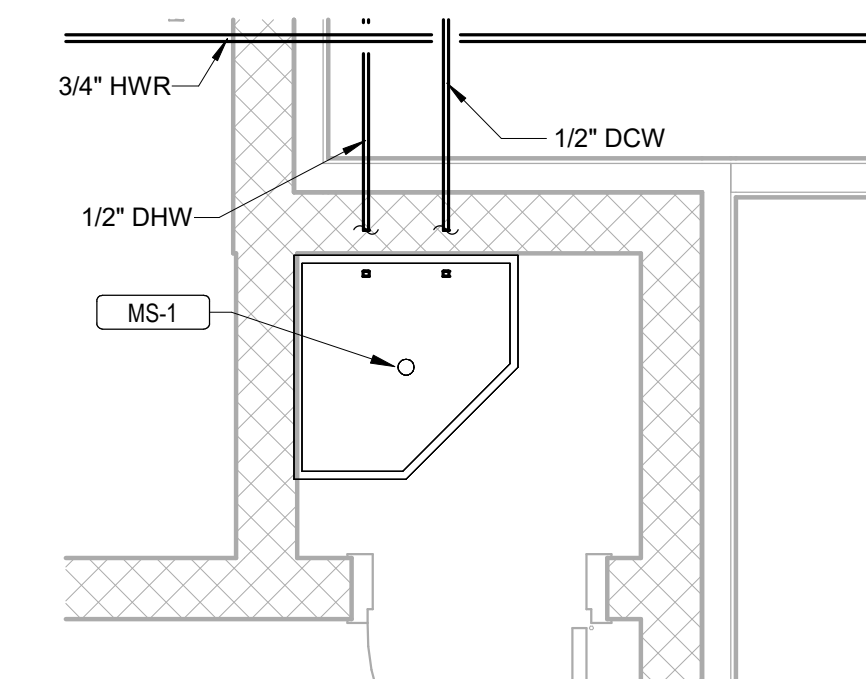
- 1 DOMESTIC HOT AND COLD WATER DOWN FROM CEILING SPACE TO CELL FIXTURE SUPPLY. ROUTE PIPING CLOSE TO STRUCTURE WITHIN CHASE.
- 2 FURNISH AND INSTALL SHUT OFF VALVES FOR EACH CELL.
- 3 SANITARY PIPING TO BUILDING MAIN.
- 4 DOMESTIC COLD WATER DOWN FROM CEILING SPACE TO WATER CLOSET SUPPLY. ROUTE PIPING CLOSE TO STRUCTURE WITHIN CHASE.
- 5 DOMESTIC HOT AND COLD WATER DOWN FROM CEILING SPACE TO SHOWER SUPPLY. ROUTE PIPING CLOSE TO STRUCTURE WITHIN CHASE.
- 6 DOMESTIC HOT AND COLD WATER DOWN FROM CEILING SPACE TO LAVATORY SUPPLY. ROUTE PIPING CLOSE TO STRUCTURE WITHIN CHASE.
- 7 FURNISH AND INSTALL FLOOR DRAIN FOR EACH SHOWER HEAD WITHIN SHOWER ROOM 145.



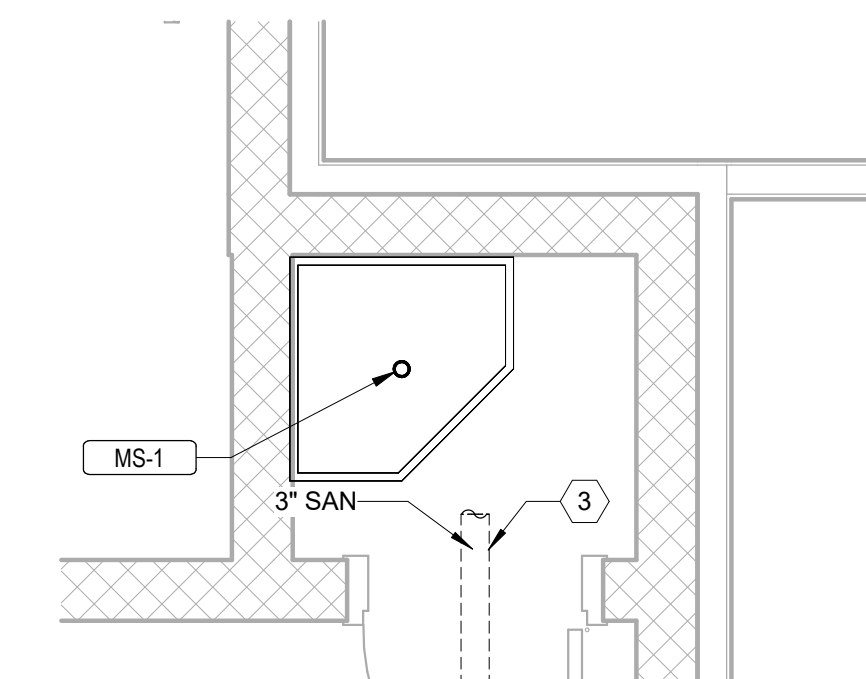
1 SANITARY AND VENT ENLARGED PLAN - BATHROOM
1/2" = 1'-0"



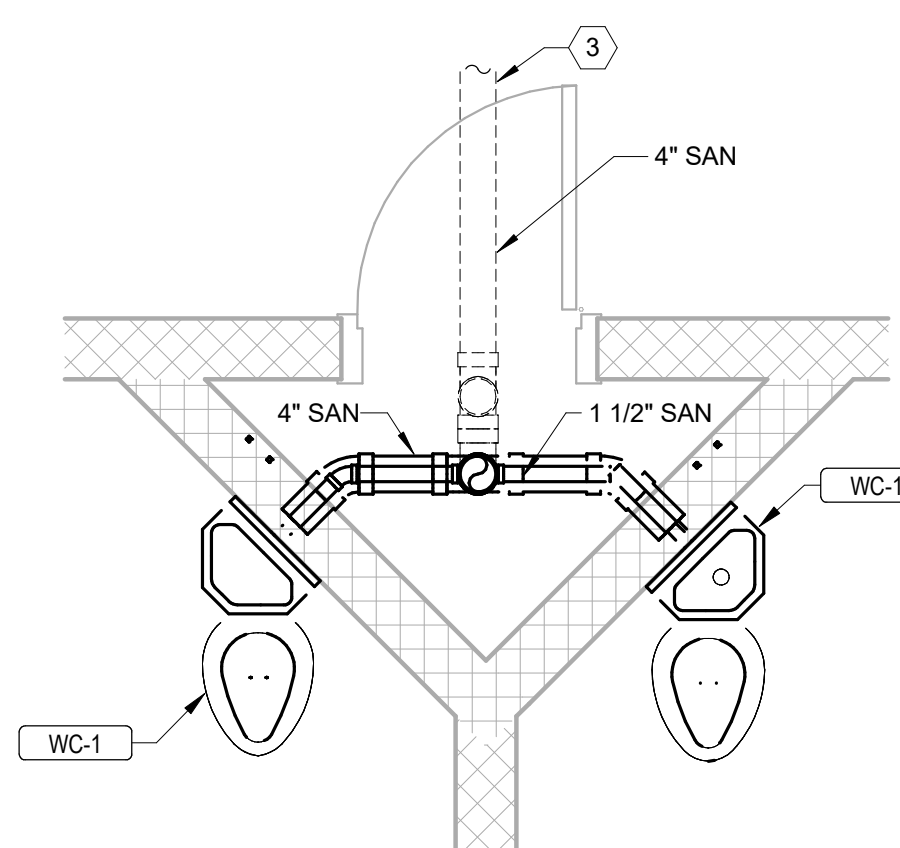
2 DOMESTIC WATER ENLARGED PLAN - BATHROOM
1/2" = 1'-0"



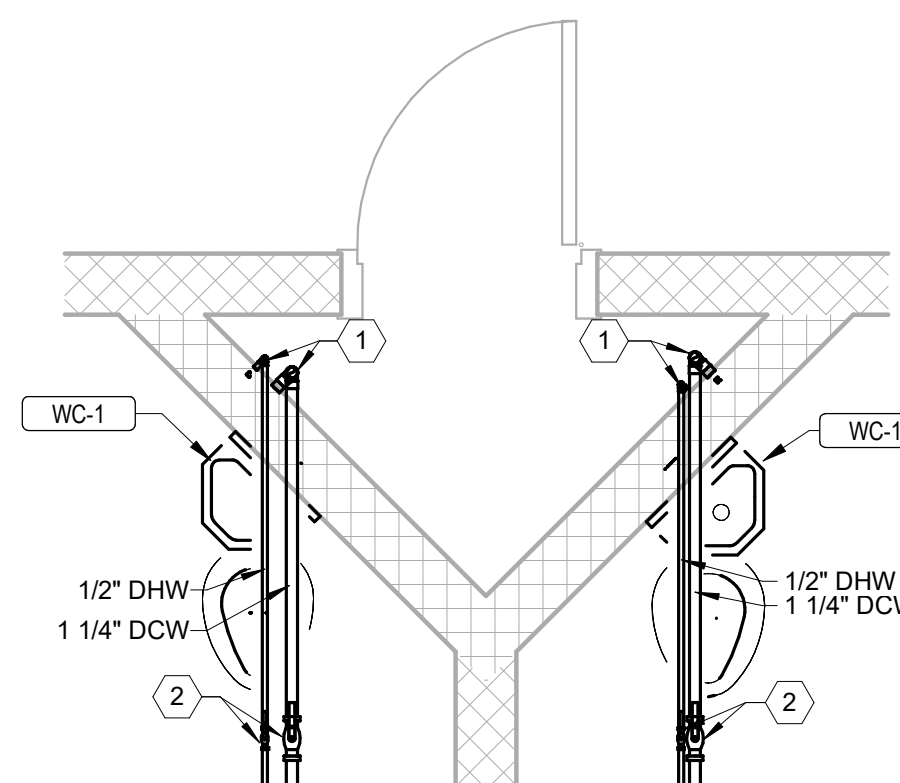
6 DOMESTIC WATER ENLARGED PLAN - JANITOR
1/2" = 1'-0"



5 SANITARY AND VENT ENLARGED PLAN - JANITOR
1/2" = 1'-0"



3 TYPICAL SANITARY ENLARGED PLAN - CELL
1/2" = 1'-0"



4 TYPICAL DOMESTIC WATER ENLARGED PLAN - CELL
1/2" = 1'-0"

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PLUMBING RENOVATION - ENLARGED PLANS

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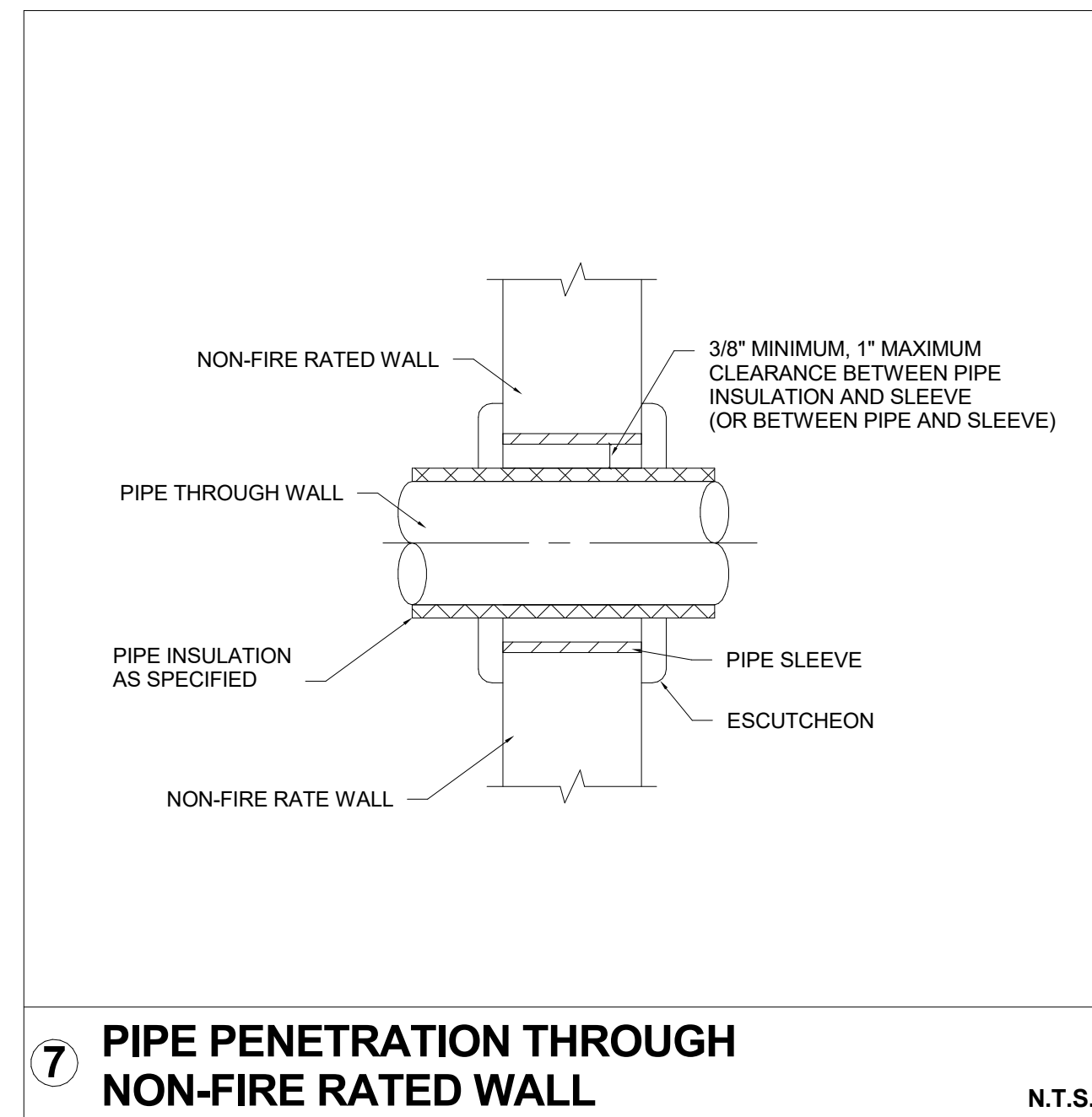
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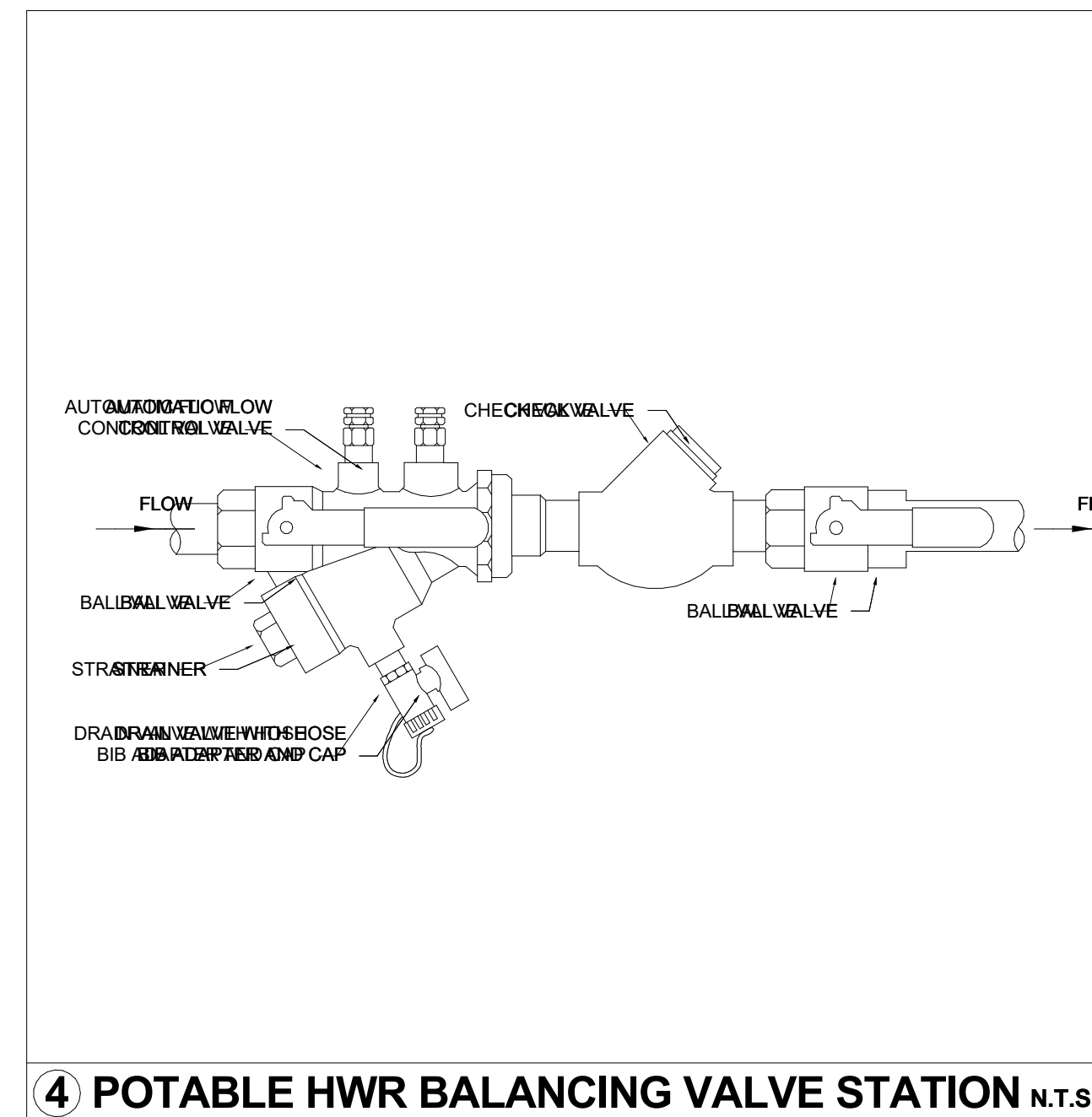
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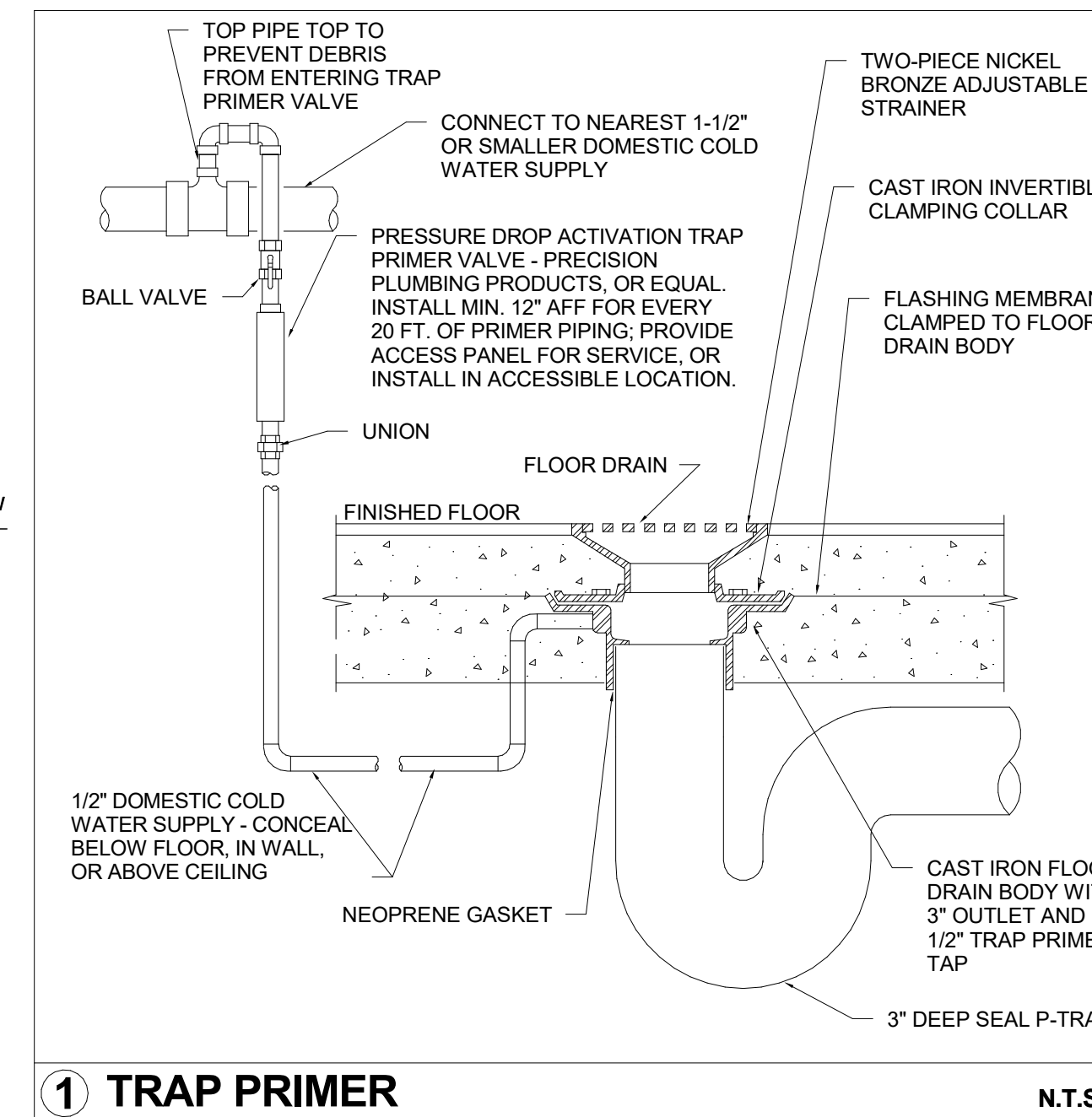
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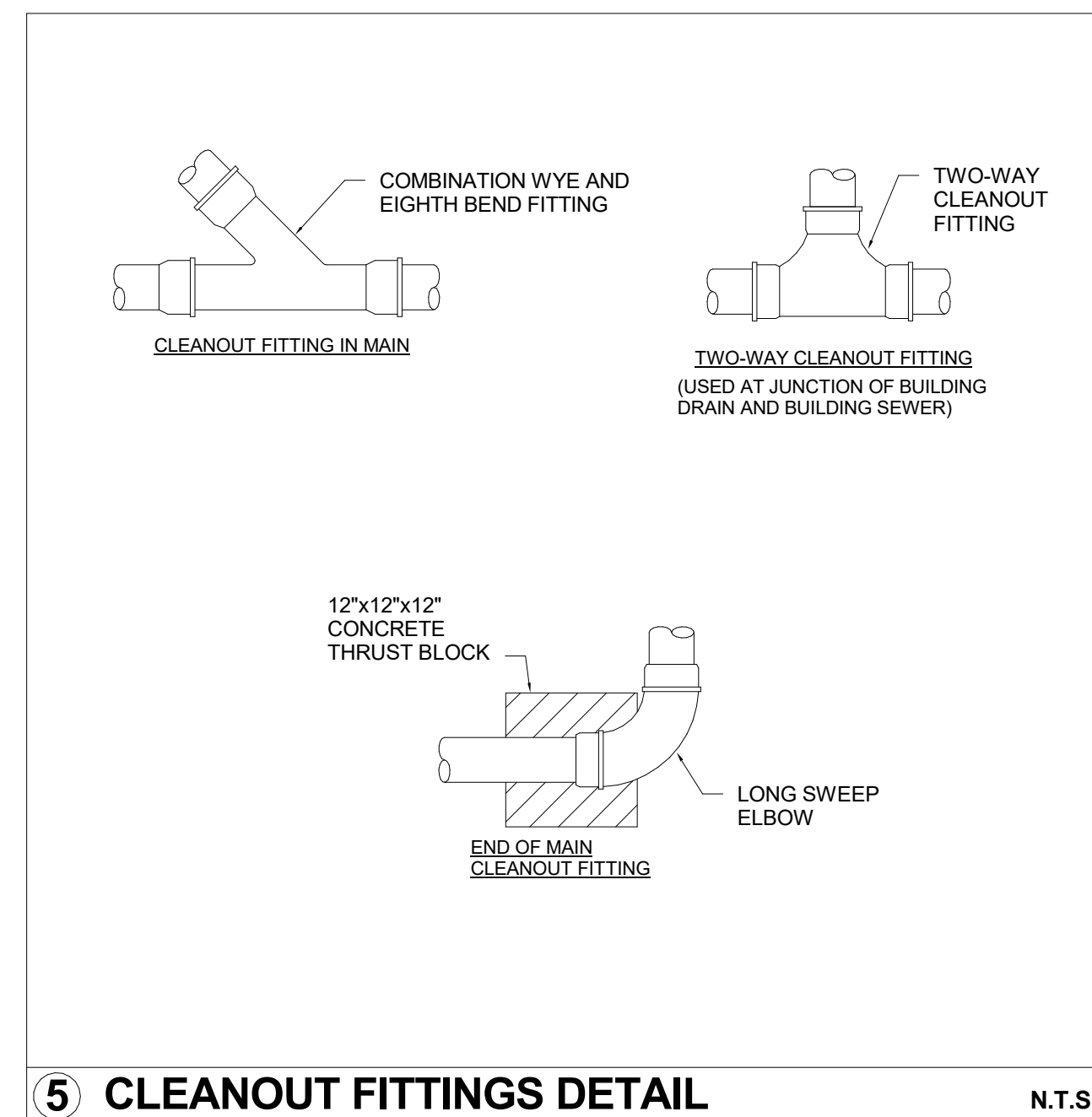
7 PIPE PENETRATION THROUGH NON-FIRE RATED WALL N.T.S.



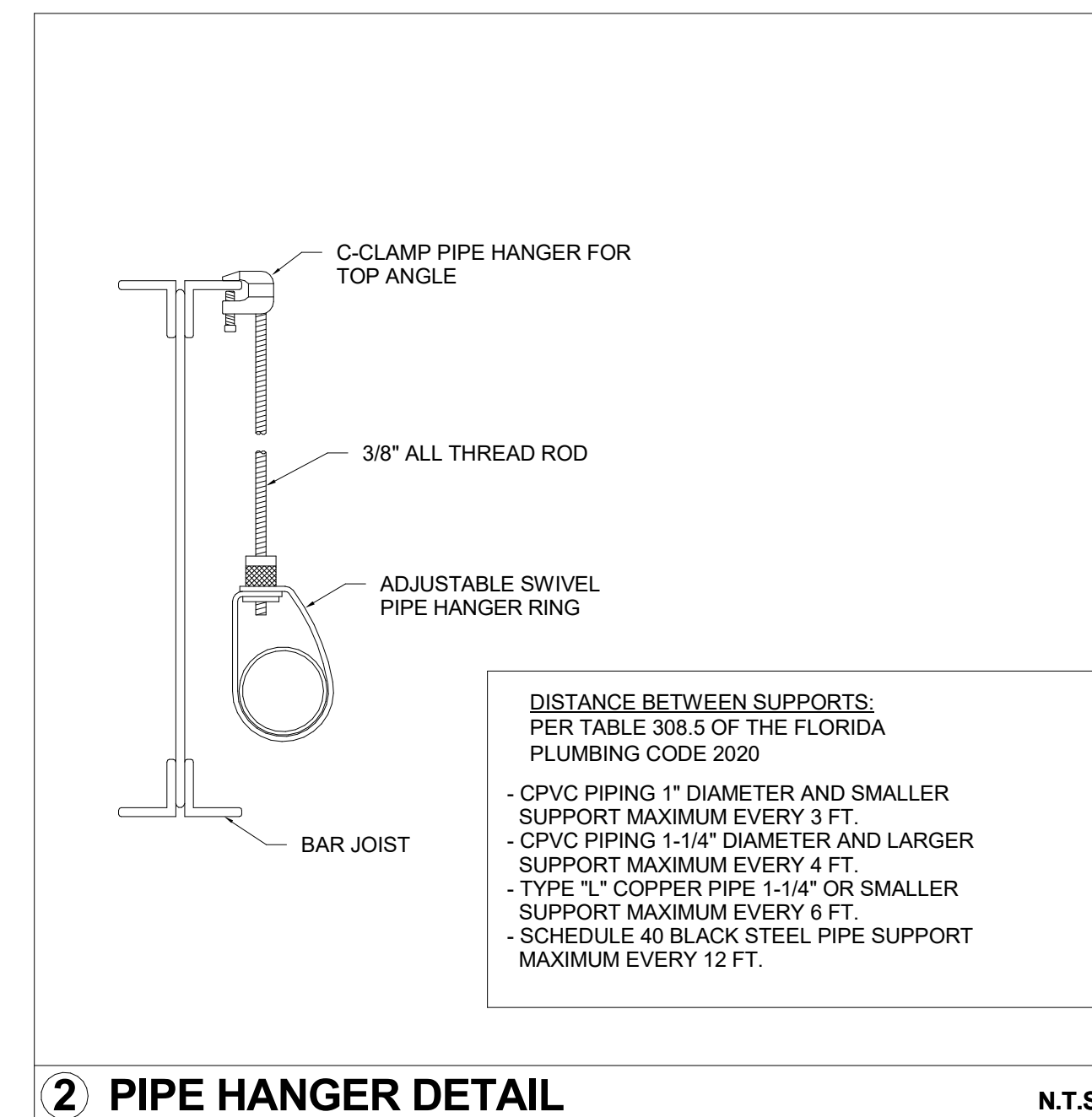
4 POTABLE HWR BALANCING VALVE STATION N.T.S.



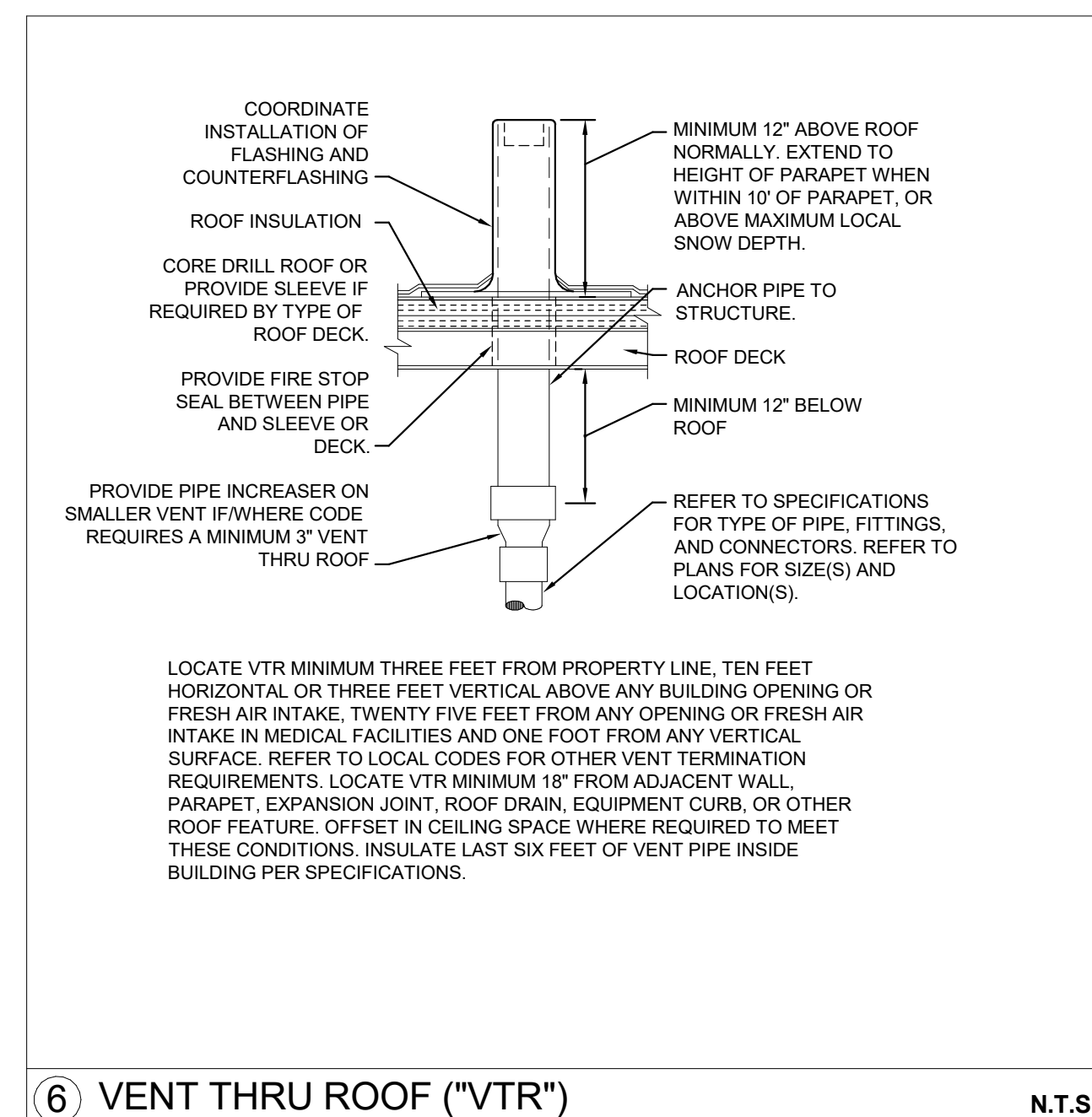
1 TRAP PRIMER N.T.S.



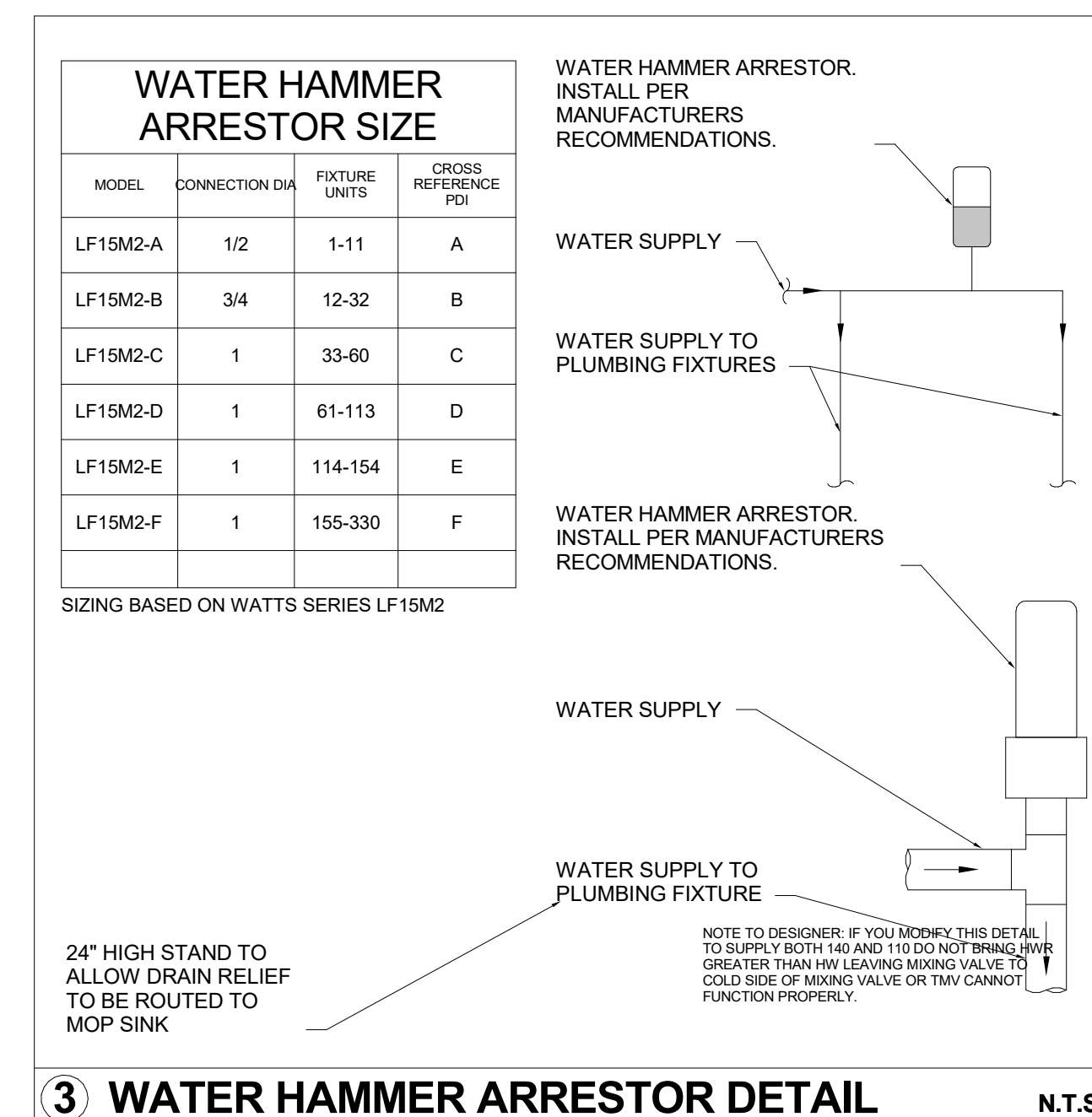
5 CLEANOUT FITTINGS DETAIL N.T.S.



2 PIPE HANGER DETAIL N.T.S.



6 VENT THRU ROOF (\"/>



3 WATER HAMMER ARRESTOR DETAIL N.T.S.

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PLUMBING DETAILS

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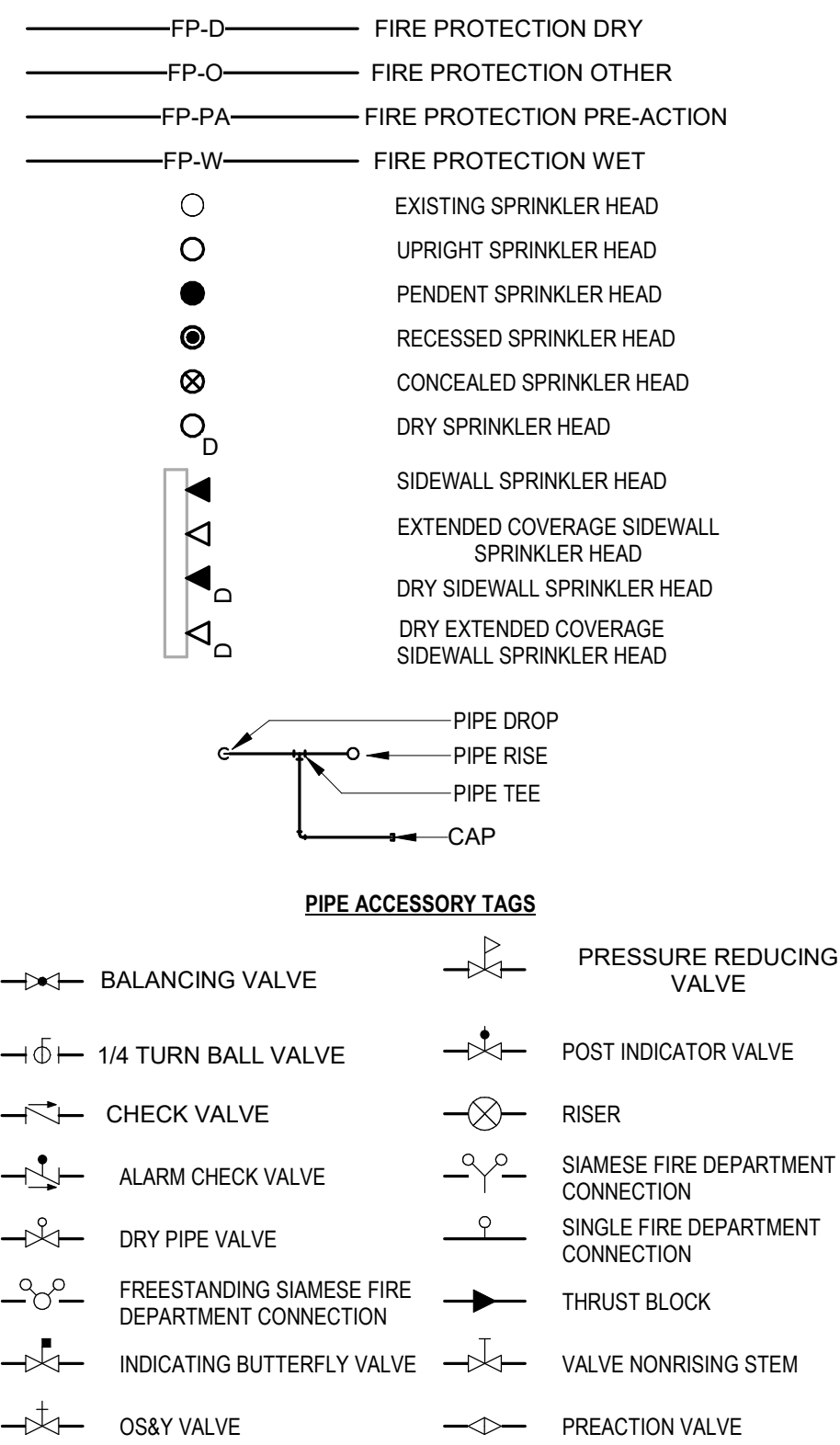
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DELEGATED DESIGN REQUIREMENTS

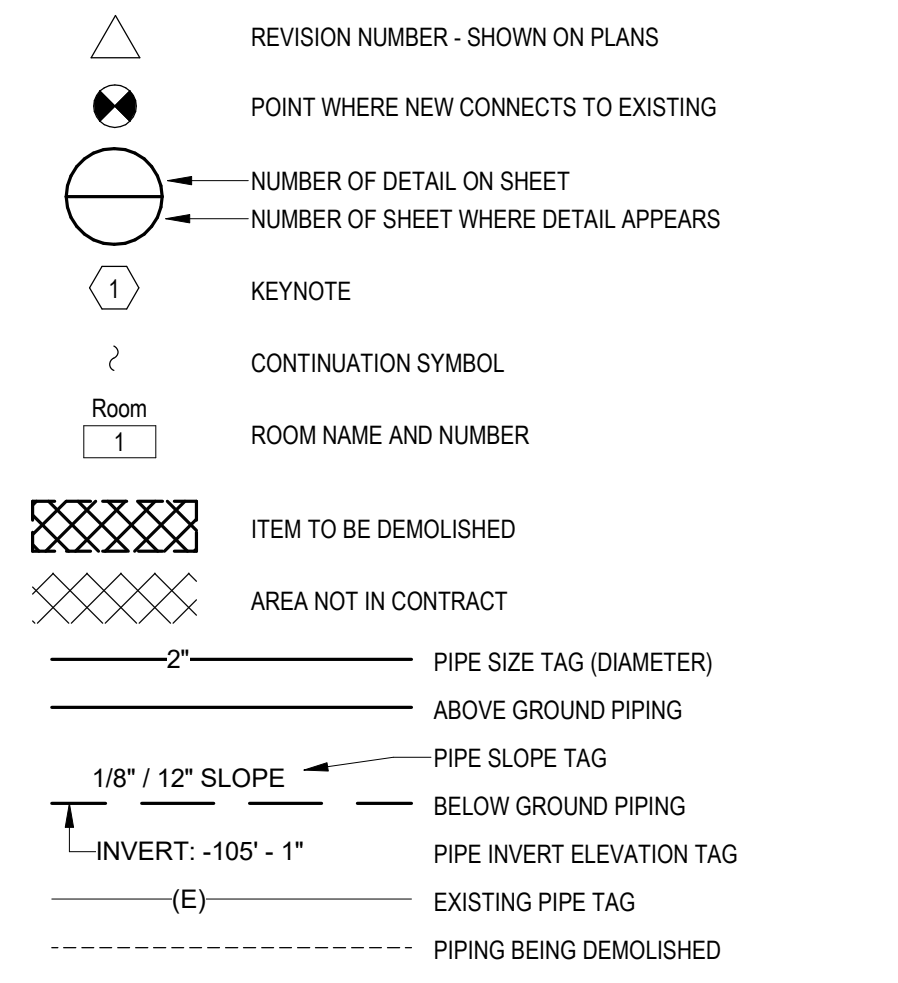
- THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, AS DEFINED PER F.A.C. 61G15-32.002(5), REPRESENT THE OVERALL SCOPE, DESIGN INTENT, AND COVERAGE AREA FOR THE FIRE PROTECTION SYSTEM WITHIN THE PROJECT SCOPE. DELEGATED ENGINEER IS RESPONSIBLE FOR DESIGNING A FIRE PROTECTION SYSTEM FOR THE ENTIRE BUILDING, PERMITTED AND APPROVED PER NFPA AND BY THE AUTHORITY HAVING JURISDICTION.
- DELEGATED ENGINEER SHALL PROVIDE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS TO THE ENGINEER OF RECORD AND AUTHORITY HAVING JURISDICTION, INCLUDING THE FOLLOWING AS APPLICABLE, BUT NOT LIMITED TO:
 - SPRINKLER SYSTEM DRAWINGS, INCLUDING SPRINKLER SYSTEM LAYOUT, NODE IDENTIFICATION AND NODE SPOT ELEVATIONS.
 - HYDRAULIC CALCULATIONS AND PIPE SIZES. SIZE PIPING TO PROVIDE AN EXCESS RESIDUAL PRESSURE OF 10 PSI AT THE HYDRAULICALLY MOST DEMANDING POINT AT SYSTEM DESIGN FLOW.
 - SPRINKLER SYSTEM DESIGN, CALCULATIONS, DETAILED WORKSHEETS, WATER SUPPLY CURVE, AND SPRINKLER SYSTEM DEMAND CURVE.
 - SPRINKLER HEAD PRODUCT DATA SHEETS WITH SPECIFIC SYSTEM COMPONENTS IDENTIFIED.
 - ADDITIONAL SPRINKLER SYSTEM SPECIFICATIONS AS REQUIRED FOR COMPLIANCE WITH NFPA 13, CHAPTER 27 PLANS AND CALCULATIONS, PRIOR TO AUTOMATIC SPRINKLER SYSTEMS INSTALLATION.
 - ALL NECESSARY COMPONENTS, SYSTEMS MATERIALS, ASSEMBLIES, EQUIPMENT, AND SUPPORT SYSTEMS REQUIRED.
- FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF RISERS, CROSS MAINS, BRANCH LINES, AND SPRINKLER HEADS WITH ALL OTHER TRADE SYSTEMS TO AVOID CONFLICTS AND MAINTAIN ARCHITECTURAL ELEMENTS OF THE BUILDING.
- COORDINATE SPRINKLER HEAD TYPES AND LOCATIONS WITH ARCHITECTURAL FINISHES AND OTHER CEILING MOUNTED DEVICES.

FIRE PROTECTION SYMBOLS



NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL MECHANICAL SYMBOLS



ABBREVIATIONS

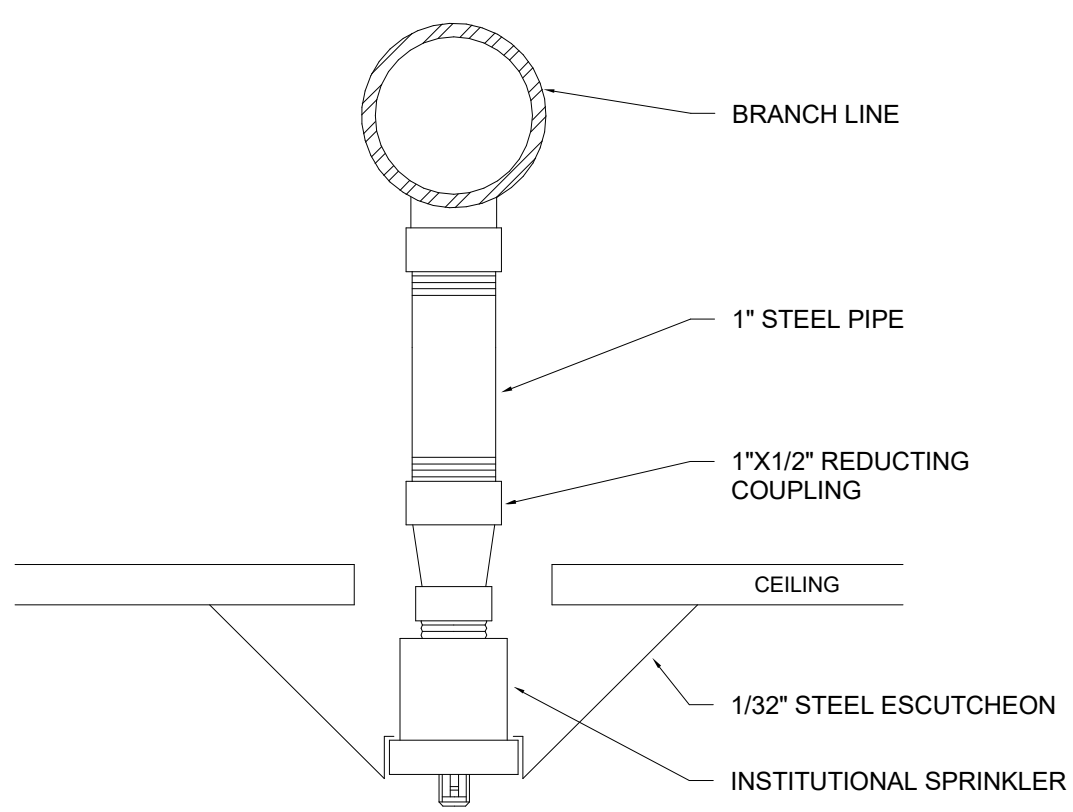
Ø	DIAMETER	INV	INVERT
ABV	ABOVE	LB	POUND
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT/ARCHITECTURAL	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BLW	BELOW	MISC	MISCELLANEOUS
CAP	CAPACITY	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NUMBER
D	DEGREE	NTS	NOT TO SCALE
DN	DOWN	PD	PRESSURE DROP
ELEC	ELECTRICAL	PV	POST INDICATOR VALVE
F	FAHRENHEIT	PSI	POUNDS PER SQUARE INCH
FDC	FIRE DEPARTMENT CONNECTION	REC	RECESSED
FPM	FEET PER MINUTE	RM	ROOM
FT	FOOT/FEET	SF	SQUARE FOOT/FEET
GAL	GALLON	SP	STANDPIPE
GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
HYD	HYDRANT	TYP	TYPICAL
IN	INCH	UG	UNDERGROUND

GENERAL NOTES

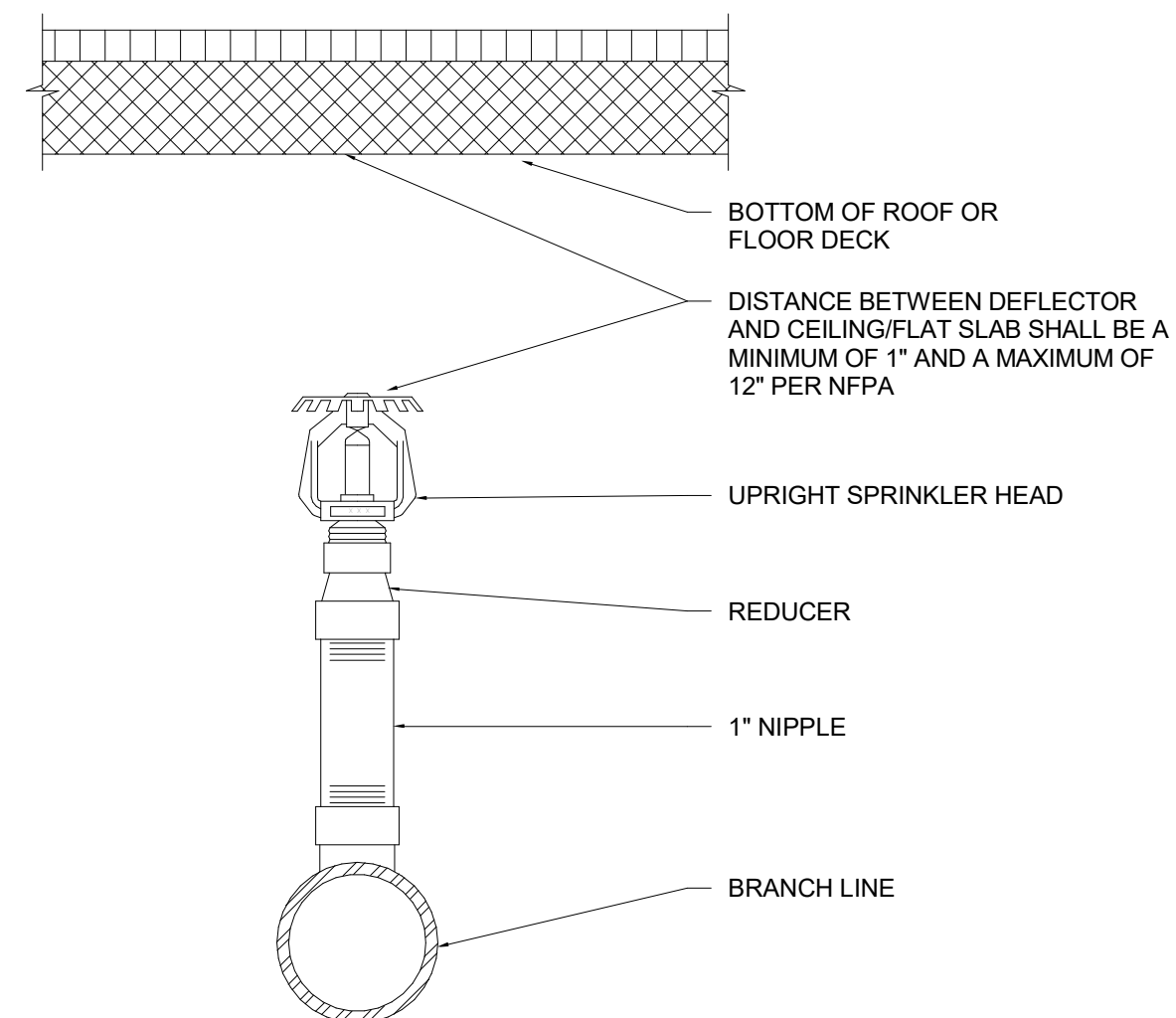
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE PROVIDED (FURNISHED AND INSTALLED) UNDER THIS CONTRACT. DRAWINGS SHOULD NOT BE SCALED.
- CONTRACTOR SHALL NOTE ANY SPECIAL REQUIREMENTS FOR INSTALLATION OF WORK UNDER THIS CONTRACT. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND THE LOCATION OF INSTALLATION.
- THE CONTRACTOR SHALL MAINTAIN A COMPLETE PROJECT SCHEDULE AND SHALL UPDATE THIS SCHEDULE WEEKLY. ANY CHANGES SHALL BE NOTED AND AN UPDATED SCHEDULE SHALL BE PROVIDED TO THE OWNER.
- ALL PERMITS, FEES, TAXES, ETC SHALL BE PAID BY CONTRACTOR AS PART OF THE TOTAL PROJECT COST.
- MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH FIRESTOP MATERIAL IN ACCORDANCE WITH U.L. REQUIREMENTS TO MAINTAIN THE ASSEMBLY RATING.
- ALL CONSTRUCTION WORK SHALL ALSO MEET THE FOLLOWING CODE REQUIREMENTS:
 - FLORIDA BUILDING CODE (FBC) 2023
 - FLORIDA EXISTING BUILDING CODE 2023
 - FBC MECHANICAL 2023
 - FBC PLUMBING 2023
 - FBC ENERGY CONSERVATION 2023
 - FLORIDA FIRE PREVENTION CODE 2023
 - NFPA 1-2021, THE UNIFORM FIRE CODE
 - NFPA 101-2021, THE LIFE SAFETY CODE
 - NFPA 51B-2019, STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK
 - NFPA 13-2019, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 - NFPA 70-2020, NATIONAL ELECTRICAL CODE
 - NFPA 90A-2021, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTING SYSTEMS.
 - NFPA 241-2019, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS.
- CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE AND SMOKE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES, OR CONDUITS, AND SHALL DISPLAY THESE DRAWINGS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL REFER TO ALL DETAILS FOR PROPER GUIDANCE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ALL PRODUCTS USED ON PROJECT.
- THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF CONTRACT DOCUMENTS UNLESS THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER TO THE SPECIFIC DEVIATION. THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN HIS OR HER SUBMITTAL DATA.
- THE CONTRACTOR IS REQUIRED TO SUBMIT THREE COMPLETE O&M MANUALS IN THREE RING BINDERS AT SUBSTANTIAL COMPLETION. MANUALS SHALL INCLUDE INSTALLATION AND MAINTENANCE DATA ON ALL NEW EQUIPMENT AND MATERIALS, CERTIFIED TECHNICAL PRODUCT DATA, EQUIPMENT SHOP DRAWINGS, SPARE PARTS DATA, ETC. PROVIDE AN INDEX AND ASSOCIATED DIVIDERS.
- CLOSE OUT DOCUMENTS: THE CONTRACTOR IS TO MAINTAIN ONE SET OF CONSTRUCTION DRAWINGS ON SITE AND KEEP CURRENT WITH MARK UP AS-BUILT CONDITIONS DURING CONSTRUCTION OF THE PROJECT. THIS SET IS TO INCLUDE ALL CONTRACT CHANGES, MODIFICATIONS AND CLARIFICATIONS. THIS SET ALONG WITH ALL SHOP DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT/ENGINEER AFTER CONSTRUCTION COMPLETION.
- IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO ALL DRAWINGS, SPECIFICATION SECTIONS, ETC. THE DRAWINGS ARE SCHEMATIC IN NATURE. THEREFORE BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL REVIEW ALL OTHER CONSTRUCTION DOCUMENTS, VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE BASE BID SHALL REFLECT THE TOTAL COST OF NEW EQUIPMENT INSTALLATION. THIS INCLUDES LABOR, EQUIPMENT AND MATERIALS. NO CHANGE ORDERS SHALL BE ISSUED WITHOUT WRITTEN CONSENT AND APPROVAL FROM ENGINEER AND ARCHITECT.

FIRE PROTECTION NOTES

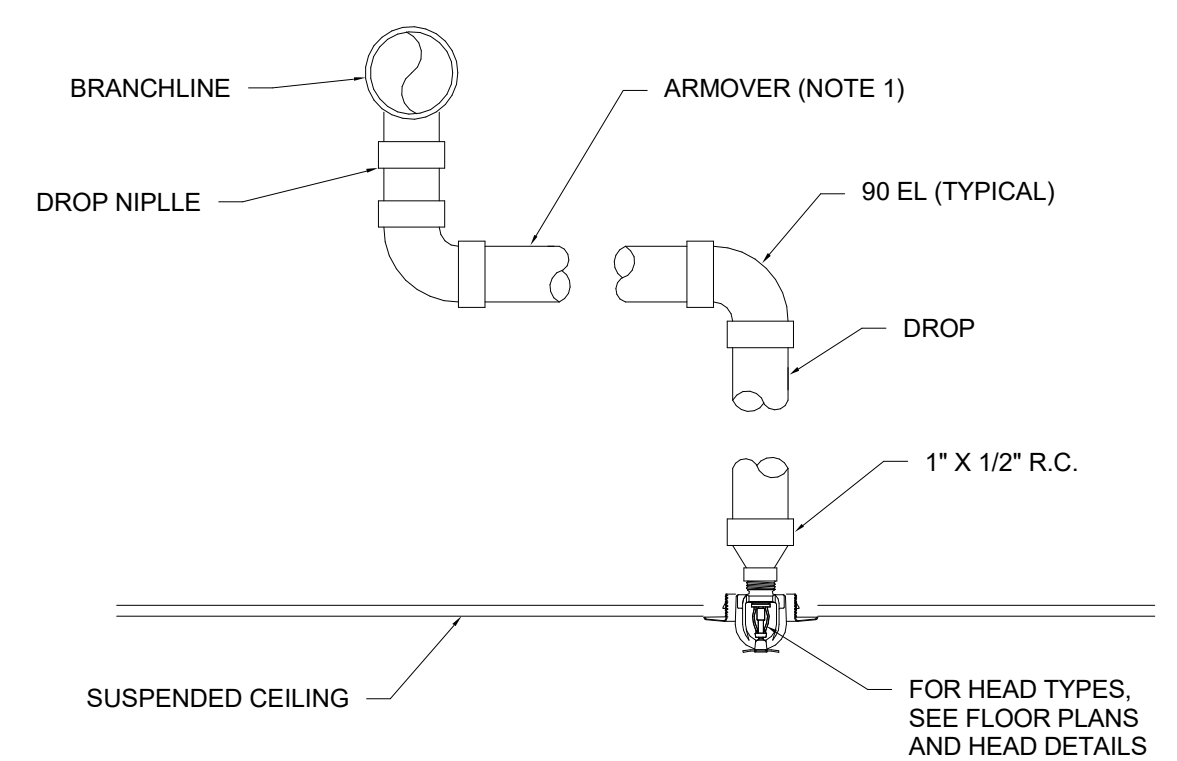
- THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- PROVIDE A COMPLETE WET/DRY TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- THIS SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
- SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
- THIS DRAWING SET INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THE FIRE PROTECTION CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- THE FIRE PROTECTION CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.
- COORDINATE AND PROVIDE AUTOMATIC AIR VENTS AND ASSOCIATED RELIEF PIPING FOR EACH SPRINKLER SYSTEM WITHIN BUILDING.
- FORWARD FLOW TESTING OF BACKFLOW PREVENT SHALL BE ACCOMPLISHED AT BACKFLOW PREVENTER. REFER TO DETAILS FOR MORE INFORMATION.



2 INSTITUTIONAL PENDENT SPRINKLER HEAD N.T.S.



3 UPRIGHT SPRINKLER HEAD DETAIL N.T.S.



NOTE:
1. PROVIDE HANGER FOR ARMOVERS GREATER THAN 24" IN LENGTH.

1 SWING ARM ASSEMBLY DETAIL N.T.S.

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

HAZARD SYMBOL	SPACE TYPE	HAZARD CLASSIFICATION	SYSTEM TYPE	DISCHARGE DENSITY	REMOTE AREA	MAXIMUM COVERAGE AREA PER SPRINKLER	MAXIMUM SPACING	WATER SUPPLY DURATION	OUTSIDE HOSE ALLOWANCE	TEMPERATURE CLASSIFICATION	SPRINKLER TYPE	NOTES
				GPM/FT²	FT²	FT²	FT.	MINUTES	GPM			
[Symbol]	GENERAL, EXCEPT AS LISTED BELOW	LIGHT HAZARD	WET PIPE	0.10	1,500	225	15	30	100	ORDINARY	INSTITUTIONAL PENDENT OR UPRIGHT, QUICK RESPONSE, UL LISTED	1
[Symbol]	GENERAL, EXCEPT AS LISTED BELOW	ORDINARY HAZARD GROUP 1	WET PIPE	0.15	1,500	130	15	60-90	250	INTERMEDIATE	INSTITUTIONAL PENDENT OR UPRIGHT, QUICK RESPONSE, UL LISTED	1
[Symbol]	GENERAL, EXCEPT AS LISTED BELOW	ORDINARY HAZARD GROUP 2	WET PIPE	0.20	1,500	130	15	60-90	250	ORDINARY	INSTITUTIONAL PENDENT OR UPRIGHT, QUICK RESPONSE, UL LISTED	1

NOTES:
1. WATER DEMAND REQUIREMENTS ARE FOR HYDRAULIC CALCULATION METHOD. IF OTHER METHOD IS USED ADJUST VALUES ACCORDING TO NFPA 13 REQUIREMENTS.



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NOTES & LEGENDS - FIRE PROTECTION

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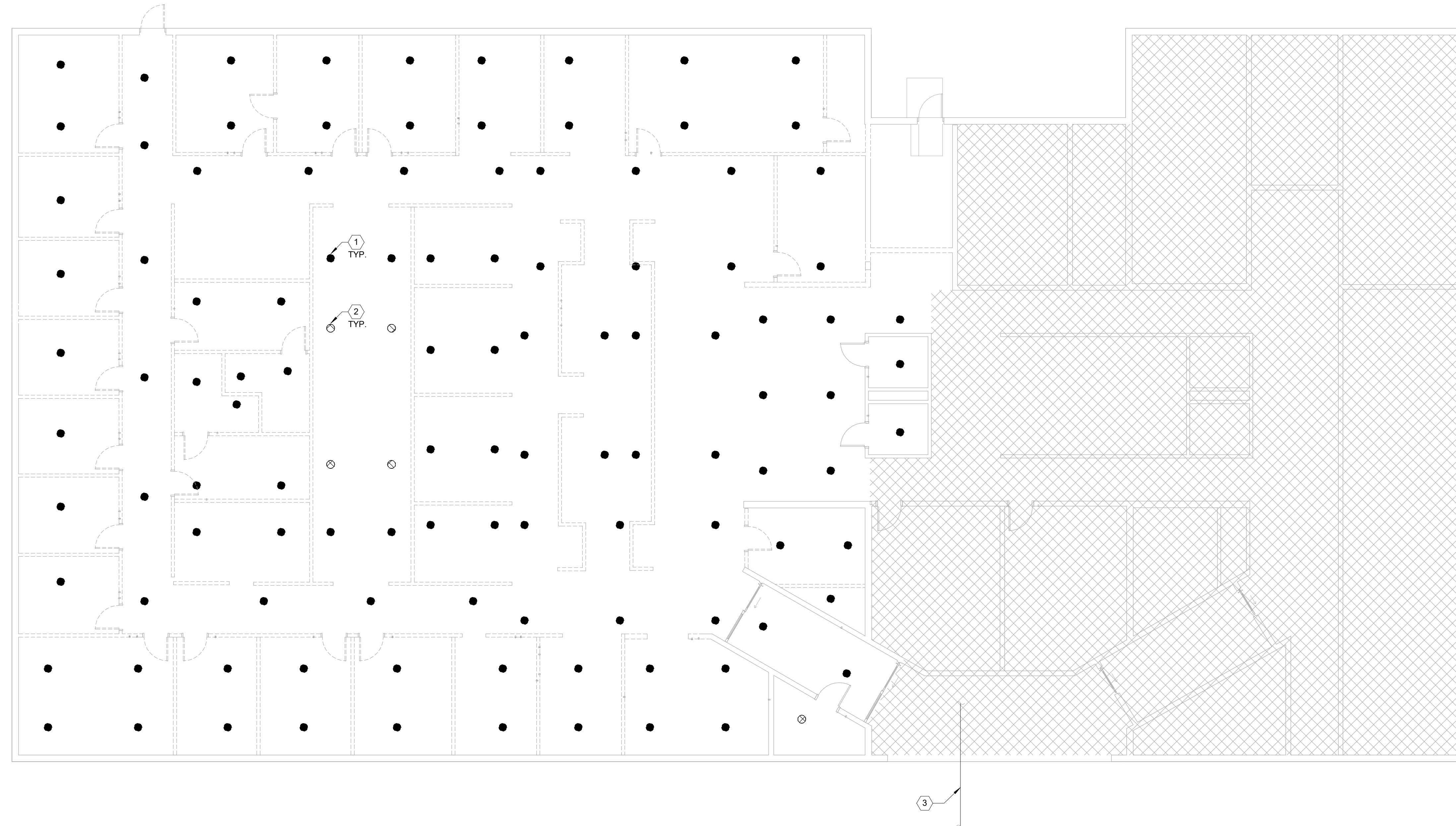
Sheet Number	Sheet Name
F-001	NOTES & LEGENDS - FIRE PROTECTION
FD-101	FIRE PROTECTION DEMOLITION PLAN
F-101	FIRE PROTECTION RENOVATION PLAN

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F-001

#	KEYNOTES
1	REMOVE AND PROPERLY DISPOSE OF ALL UPRIGHT FIRE SPRINKLERS WITHIN JIA.
2	REMOVE AND PROPERLY DISPOSE OF ALL PENDENT FIRE SPRINKLERS WITHIN JIA.
3	REMOVE AND PROPERLY DISPOSE OF ALL FIRE PROTECTION PIPING, VALVES, AND ACCESSORIES WITHIN JIA BACK TO SYSTEM RISER. COORDINATE SERVICE INTERRUPTIONS WITH OWNER.

FIRE PROTECTION GENERAL NOTES	
A.	CONTRACTOR TO FIELD VERIFY ALL CONNECTION POINTS TO EXISTING SYSTEM PIPING.
B.	FIRE SUPPRESSION SYSTEM SHALL REMAIN ACTIVE DURING CONSTRUCTION UNTIL NEW SPRINKLERS ARE READY TO INSTALL. PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS TO PROTECT SPACES WHERE CEILINGS ARE REMOVED FOR CONSTRUCTION AND UNTIL NEW CEILINGS ARE INSTALLED AND NEW DROPS TO NEW PENDENT SPRINKLERS ARE INSTALLED.
C.	PROVIDE FIRE WATCH WITHIN SPACE COMPLIANT WITH NFPA 25 WHEN SERVICE INTERRUPTIONS EXCEED 10 HOURS WITHIN A 24 HOUR PERIOD.
D.	ALL EXISTING FIRE PIPING SERVING SPRINKLERS IN AREAS BEYOND LIMITS OF CONSTRUCTION TO BE MAINTAINED.



1 FIRE PROTECTION DEMOLITION PLAN
1/8" = 1'-0"

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FIRE PROTECTION DEMOLITION PLAN

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FD-101

FIRE PROTECTION DESIGN CRITERIA	
HAZARD SYMBOL	HAZARD CLASSIFICATION
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2
	OUT OF SCOPE

- FIRE PROTECTION GENERAL NOTES**
- CONTRACTOR TO FIELD VERIFY ALL CONNECTION POINTS TO EXISTING SYSTEM PIPING.
 - FIRE SUPPRESSION SYSTEM SHALL REMAIN ACTIVE DURING CONSTRUCTION UNTIL NEW SPRINKLERS ARE READY TO INSTALL. PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS TO PROTECT SPACES WHERE CEILINGS ARE REMOVED FOR CONSTRUCTION AND UNTIL NEW CEILINGS ARE INSTALLED AND NEW DROPS TO NEW PENDENT SPRINKLERS ARE INSTALLED.
 - PROVIDE FIRE WATCH WITHIN SPACE COMPLIANT WITH NFPA 25 WHEN SERVICE INTERRUPTIONS EXCEED 10 HOURS WITHIN A 24 HOUR PERIOD.
 - ALL EXISTING FIRE PIPING SERVING SPRINKLERS IN AREAS BEYOND LIMITS OF CONSTRUCTION TO BE MAINTAINED.

- KEYNOTES**
- CONNECT NEW 4" FIRE SPRINKLER MAIN TO EXISTING JIA SYSTEM RISER.



1 FIRE PROTECTION RENOVATION PLAN
1/8" = 1'-0"

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FIRE PROTECTION RENOVATION PLAN

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1 PARTIAL FLOOR PLAN - MECHANICAL DEMOLITION - PHASE 1
ED-101/ 1/8" = 1'-0"

GENERAL NOTES

- A EXISTING CONDITIONS BASED ON RECORD DOCUMENTS AND FIELD OBSERVATION. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISURBING EXISTING INSTALLATION.
- B NO WORK REQUIRED WITHIN HATCHED AREAS. ALL POWER AND SPECIAL SYSTEM DEVICES, CIRCUITING AND ASSOCIATED WIRING SHALL BE EXISTING TO REMAIN.
- C IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE EXISTING CONDITIONS AND LAYOUTS ARE ACCURATE. EXISTING CONDITIONS ARE BASED ON FIELD OBSERVATIONS. THE CONTRACTOR SHALL CONTACT ENGINEER OF RECORD WITH ANY DISCREPANCIES PRIOR TO DISTURBING EXISTING INSTALLATION.
- D CONTRACTOR SHALL RETAIN BREAKERS MADE SPARE BY DEMOLITION FOR CONNECTION OF NEW WORK UNLESS OTHERWISE NOTED.
- E ELECTRICAL EQUIPMENT AND FIXTURES INDICATED TO BE REMOVED SHALL BE TURNED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL.
- F REMOVE ALL ELECTRICAL EQUIPMENT, DEVICES, AND CIRCUITING TO NEAREST POINT OF CONNECTION IN DEMOLITION AREAS UNLESS NOTED OTHERWISE. MAINTAIN EXISTING BREAKERS AND LABEL AS SPARE IN PANELBOARD INDEX.
- G PROVIDE JUNCTION BOXES, CONDUIT, WIRED CABLE ETC AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING TO REMAIN POWER DEVICES, EQUIPMENT, ETC.
- H CONTRACTOR SHALL TEST ALL CIRCUITS, GROUNDS, ETC. FOR CONTINUITY FOR ALL EQUIPMENT, DEVICES FIXTURES, ETC. SHOWN. PROVIDE CIRCUIT EXTENSIONS, CONDUIT, WIRE, ETC. AS REQUIRED FOR COMPLETE SYSTEM CONTINUITY
- I ALL ABANDONED OR UNUSED, WIRE, CABLING, CONDUIT, ETC SHALL BE REMOVED TO ORIGIN.

KEY NOTES

- 1. ALL LIGHTING, LIGHTING CONTROLS AND SYSTEMS TO BE DEMOLISHED IN THIS AREA. EXCEPT EQUIPMENT THAT IS DENOTED.

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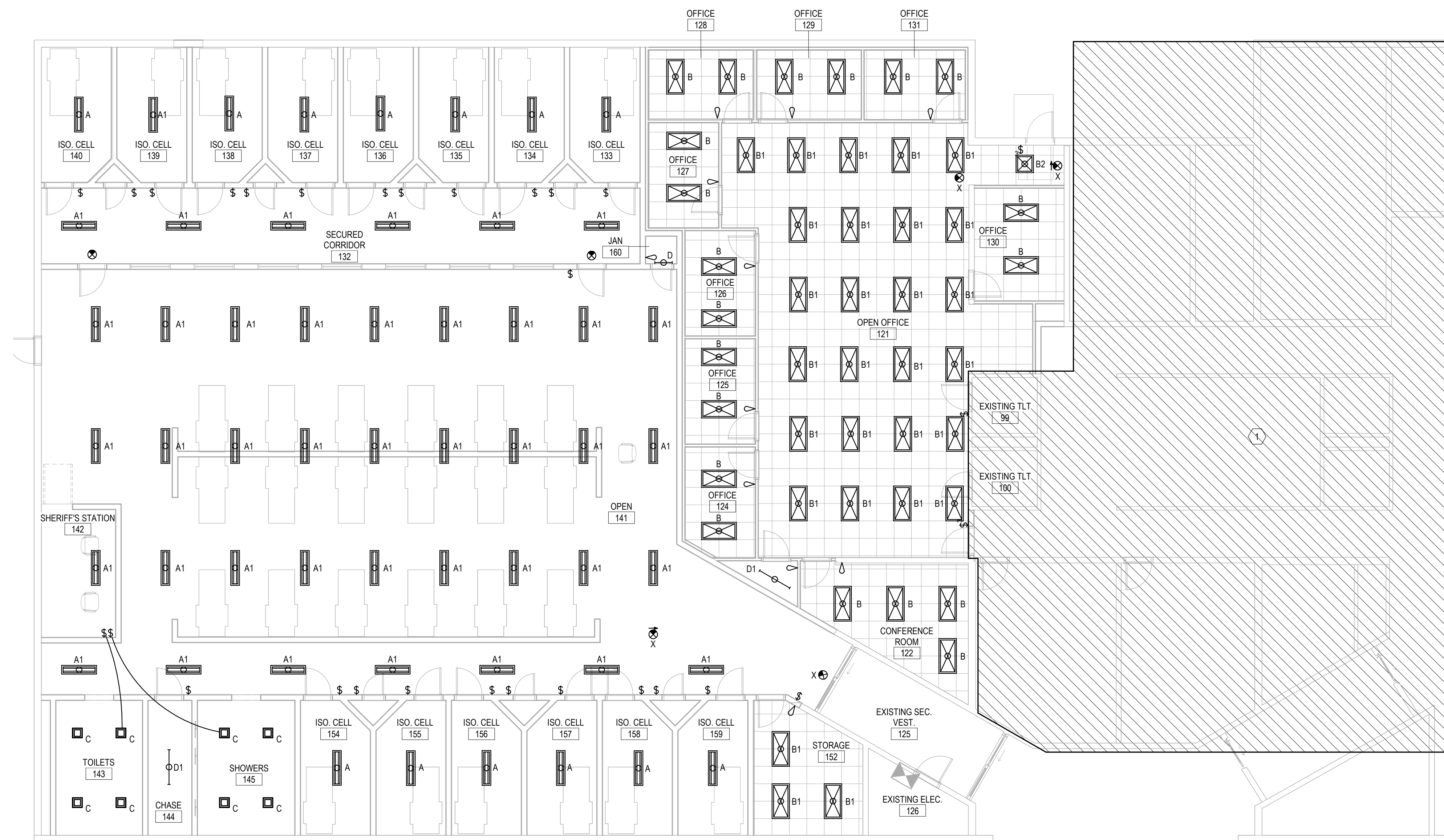
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LIGHTING CONTROL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFICATION OF ALL RATED WALLS, CEILINGS, SLABS, AND THEIR SPECIFIED RATING ON THE ARCHITECTURAL DRAWINGS. ALL DEVICES AND MATERIALS SHALL MEET THE UL RATING OF THE RATED WALLS, CEILINGS AND SLABS ASSEMBLY. CONTRACTOR SHALL PROVIDE AN ASSEMBLY, INSTALLED IN ACCORDANCE WITH UL WHERE NECESSARY.
- CONTRACTOR SHALL COORDINATE ANY WALL MOUNTED LIGHT FIXTURE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- ALL OCCUPANCY SENSOR CONTROLLED LOADS SHALL TURN OFF WITHIN 20 MINUTES OF THE OCCUPANT LEAVING THE ROOM.
- WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, THEY SHALL BE GANGED TOGETHER WITH A COMMON GANG PLATE.
- ALL EXIT LIGHTS AND EMERGENCY BATTERY PACKS SHALL BE CONNECTED TO UNSWITCHED LEG OF THE LOCAL LIGHTING BRANCH CIRCUIT.
- ALL LIGHTING CONTROLS SHALL BE IN ACCORDANCE WITH 2020 FLORIDA BUILDING CODE, ENERGY CONSERVATION.
- PROVIDE DUAL TECH OCCUPANCY/VACANCY SENSORS IN ALL OFFICES, CORRIDORS, OPEN OFFICES, LOUNGES/BREAKROOMS, RESTROOMS, STORAGE ROOMS, AND ALL OTHER SPACES 300 SQUARE FEET OR LESS ENCLOSED BY FLOOR TO CEILING HEIGHT PARTITIONS. THIS EXCLUDES MECHANICAL ROOMS, ELECTRICAL ROOMS, TELECOMMUNICATION SPACES, AND OTHER AREA WHERE THE AUTOMATIC SHUT OFF OF LIGHTS WILL CAUSE A DANGER TO LIFE SAFETY.
- WHERE VACANCY SENSORS ARE REQUIRED, LIGHTS SHALL BE MANUAL ON, AUTOMATIC OFF. LIGHTS SHALL TURN OFF AUTOMATICALLY WITHIN 20 MINUTES OF THE SPACE BECOMING VACANT.
- WHERE OCCUPANCY SENSORS ARE REQUIRED, LIGHTS SHALL TURN ON TO FULL AUTOMATICALLY, TURN OFF AUTOMATICALLY WITHIN 20 MINUTES OF THE SPACE BECOMING UNOCCUPIED, AND SHALL HAVE A SWITCH FOR MANUAL OVERRIDE.
- CONTRACTOR SHALL PROVIDE QUANTITY OF SENSORS REQUIRED WITH PROPER COVERAGE PATTERN TO ACHIEVE REQUIRED LIGHTING CONTROL WITHIN THE SPACE.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FROM THE CONTROLS MANUFACTURER'S REPRESENTATIVE SHOWING LAYOUT, QUANTITY, COVERAGE PATTERNS, AND WIRING DIAGRAM OF COMPLETE SYSTEM.
- FOR CLARITY, ONLY VACANCY (VS) OR OCCUPANCY (OC) ARE SHOWN IN SPACES REQUIRING THAT MODE OF CONTROL.
- PROVIDE LOW VOLTAGE OVERRIDE DIMMING SWITCHES IN ALL SPACES REQUIRING VACANCY/OCCUPANCY SENSORS WITH CONTROL FUNCTION AS OUTLINED.
- PROVIDE ROOM CONTROLLERS AS REQUIRED TO INTERFACE ALL LIGHTS, SWITCHES, SENSORS, ETC. IN ALL SPACES SHOWN TO RECEIVE AUTOMATIC LIGHTING CONTROLS.
- EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL ON/TIME CLOCK OFF. PROVIDE TIME CLOCK FOR CONTROLS. COORDINATE TIME OF DAY SCHEDULING WITH STATION REPRESENTATIVE.
- LIGHTING CONTROL SYSTEM SHALL BE A STAND ALONE NON-NETWORKED SYSTEM AS MANUFACTURED BY ACUTY. ALTERNATE APPROVED MANUFACTURERS ARE GREENGATE, WATTSTOPPER, AND HUBBELL.

KEYNOTES

- HATCHED AREA NOT IN SCOPE.



1 Floor Lighting Plan
1/8" = 1'-0"

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PARTIAL FLOOR PLAN - LIGHTING - PHASE 1

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E-101

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFICATION OF ALL RATED WALLS, CEILINGS, SLABS, AND THEIR SPECIFIED RATING ON THE ARCHITECTURAL DRAWINGS. ALL DEVICES AND MATERIALS SHALL MEET THE UL RATING OF THE RATED WALLS, CEILINGS AND SLABS ASSEMBLY. CONTRACTOR SHALL PROVIDE AN ASSEMBLY, INSTALLED IN ACCORDANCE WITH UL WHERE NECESSARY.
2. CONTRACTOR SHALL VERIFY POWER AND CONNECTION REQUIREMENTS FOR ALL CATERING EQUIPMENT PRIOR TO INSTALLATION. VERIFY ALL DEVICE LOCATION AND MOUNTING HEIGHT. MAKE ADJUSTMENT IN FIELD TO MATCH ACTUAL EQUIPMENT BEING INSTALLED.



1 Floor Power Plan
1/8" = 1'-0"

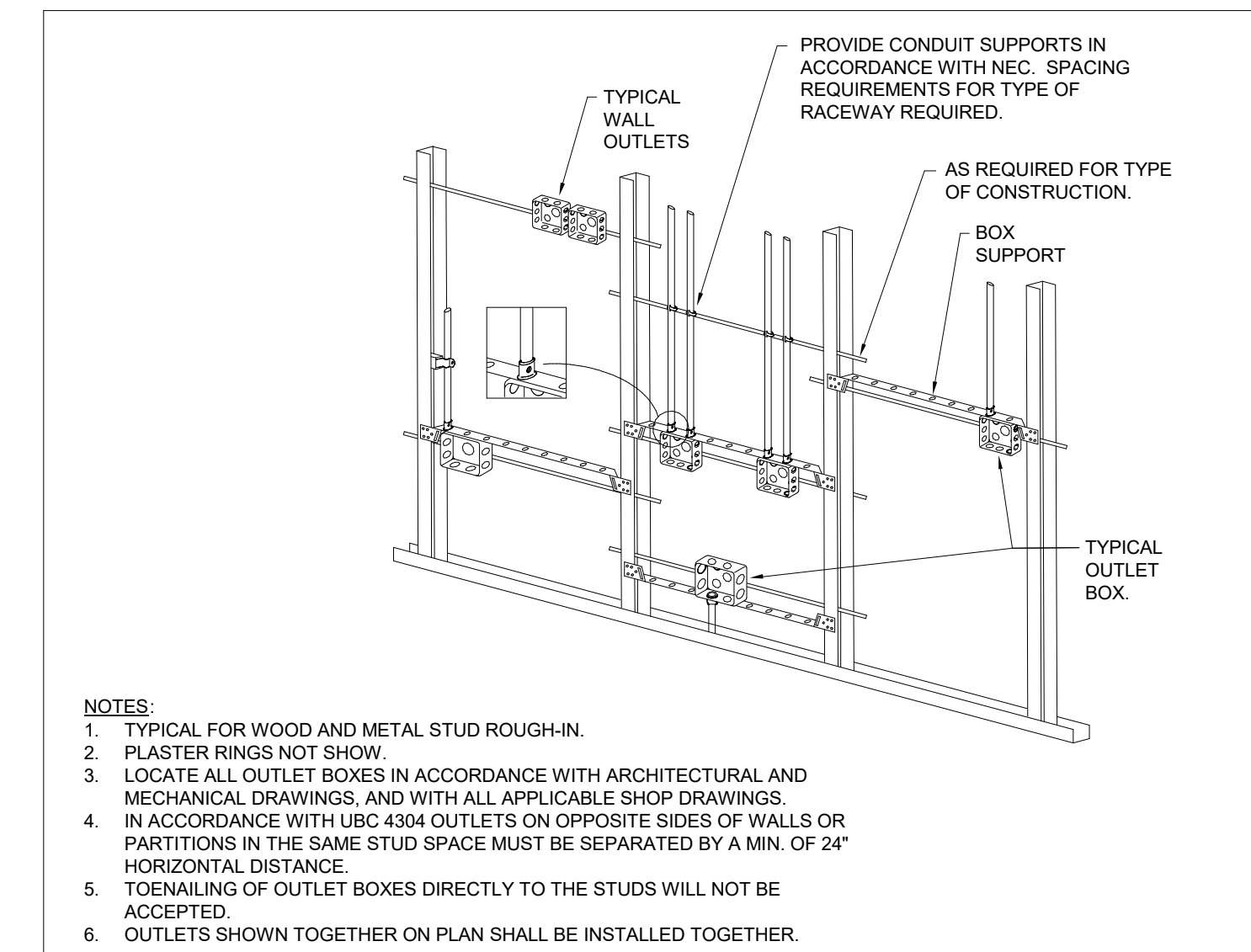
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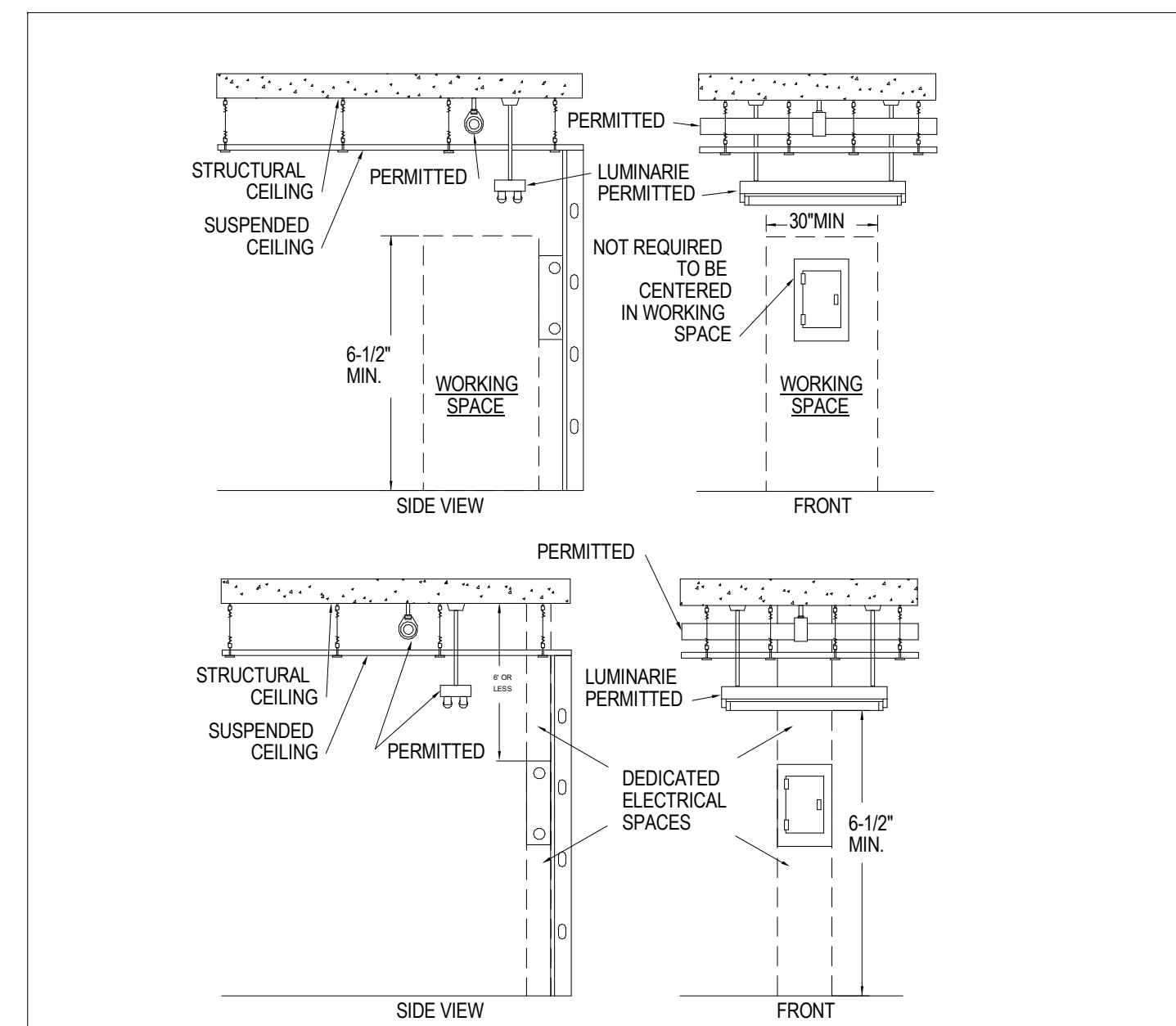
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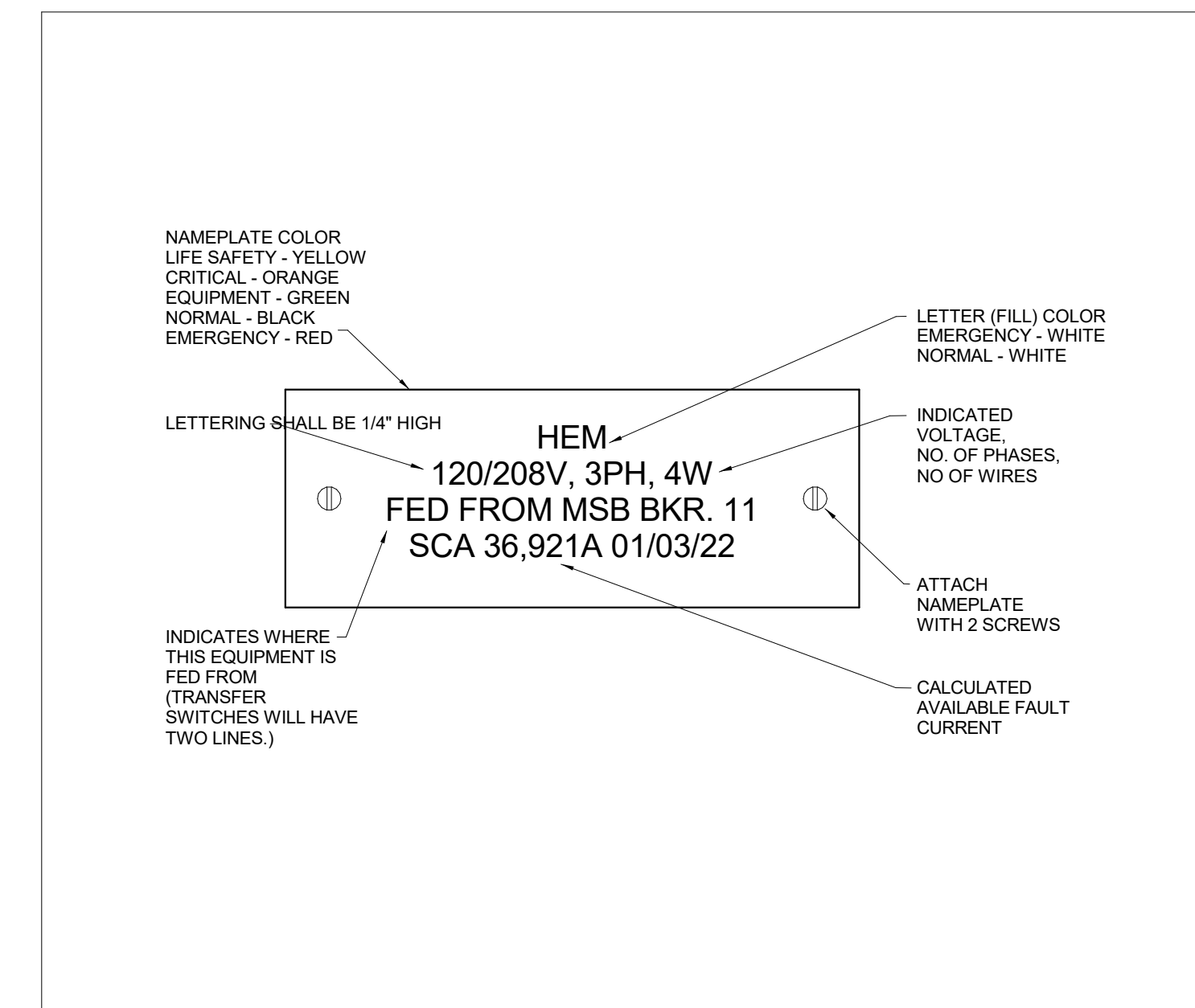
A TYPICAL ROUGH-IN

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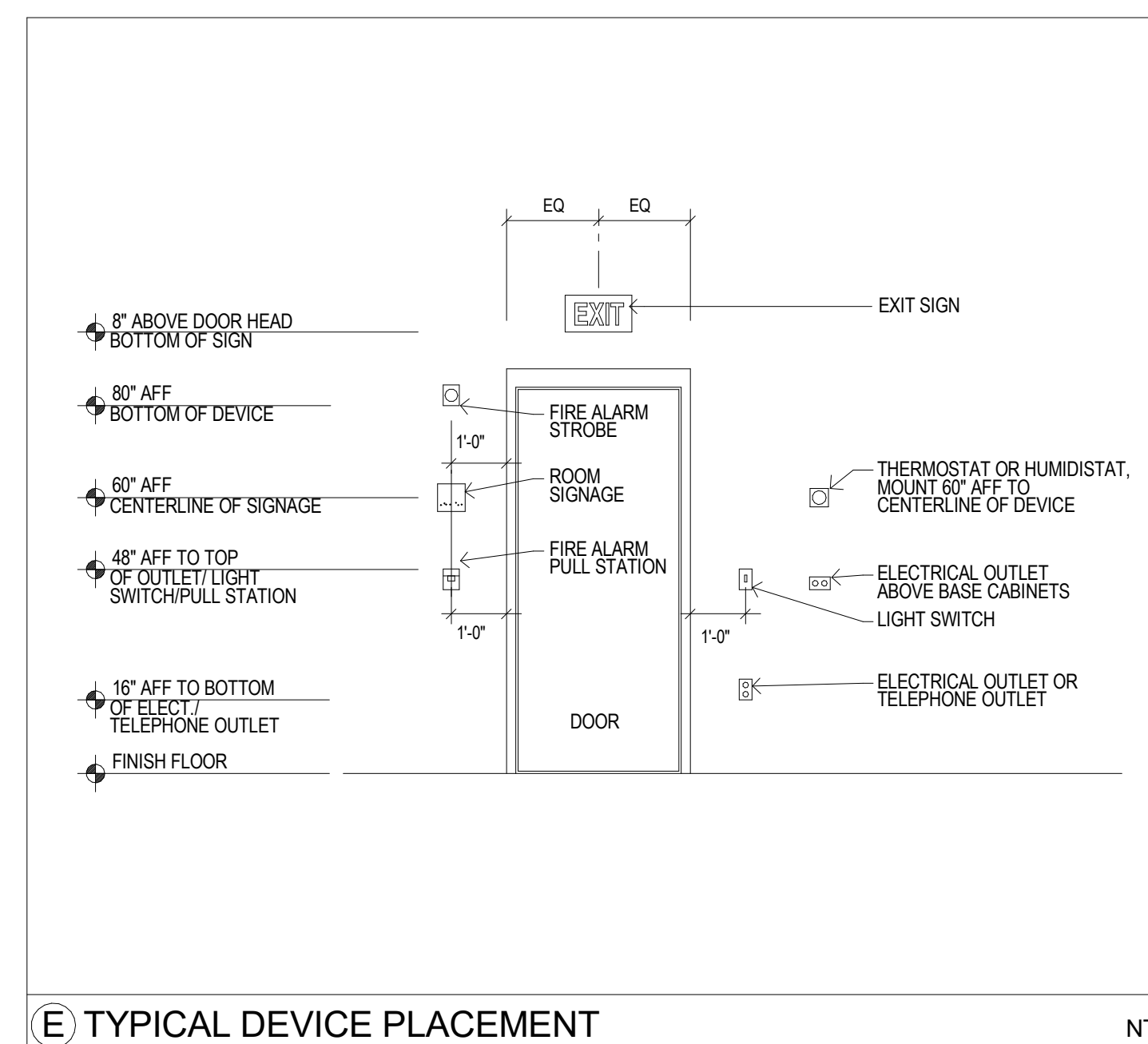
D DEDICATED AND WORKING ELECTRICAL SPACES

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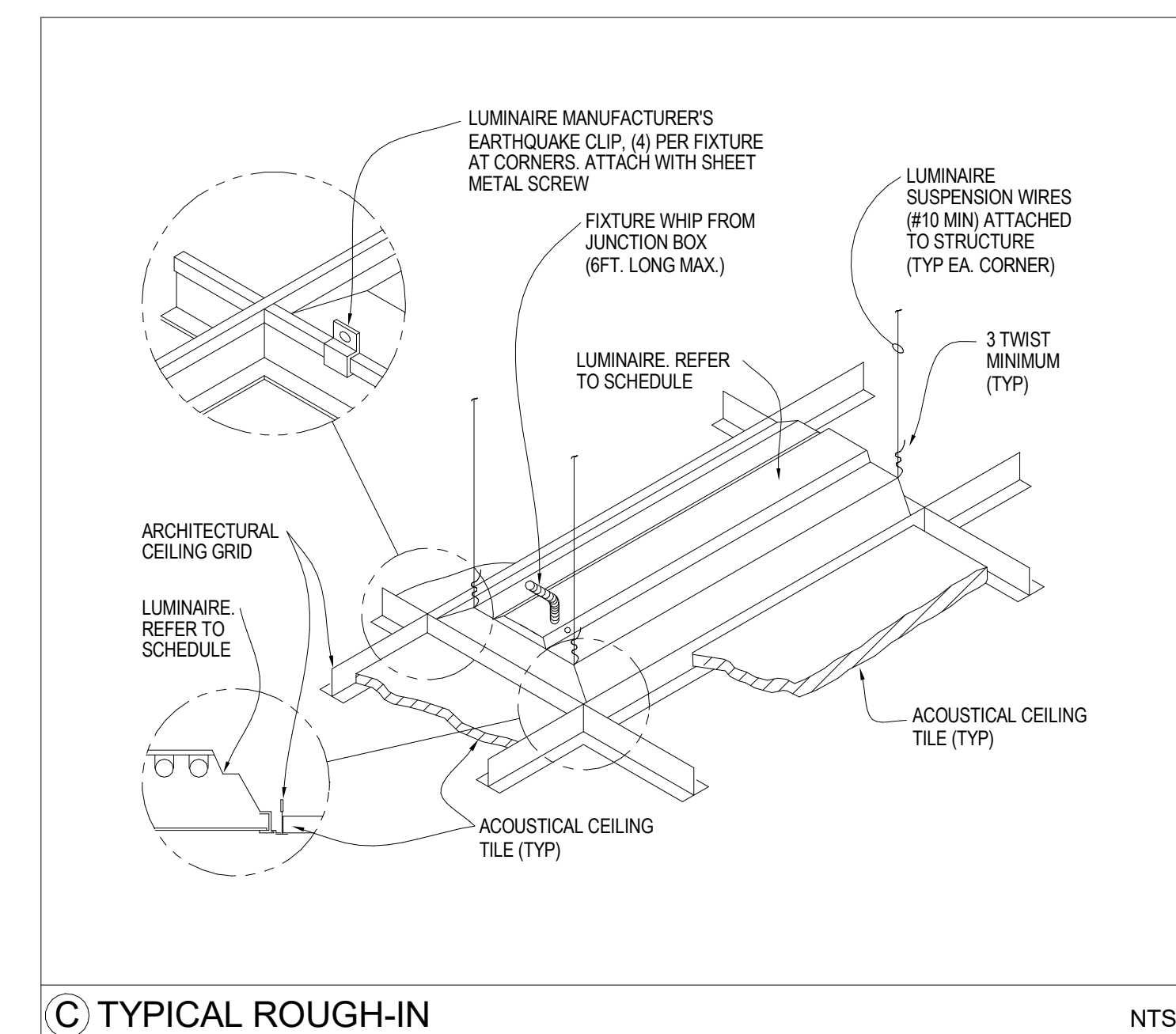
B ELECTRICAL EQUIPMENT NAMEPLATE

NTS



E TYPICAL DEVICE PLACEMENT

NTS



C TYPICAL ROUGH-IN

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ELECTRICAL DETAILS

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