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SPLIT SYSTEM UNIT SCHEDULE

GENERAL NO.	LOCATION SERVED	MFG	AIR HANDLER MARK	MODEL	CONDENSING UNIT				SYSTEM DATA				REMARKS											
					CFM	FAN	HEATER	ELECTRICAL	MARK	MODEL	ELECTRICAL	COMPRESSOR		CAPACITY	SEER									
1	Location	Trane	AHU 1	4TECF368	1,100	150	0.40	2.2	BA1Y1R1410	7.20	208/1	46.00	50	CU 1	4TRB3036B1	208/1	18.0	30	1	3.0	33.9	24.0	13.0	1, 2
2	Location	Trane	AHU 2	4TECF368	1,150	150	0.40	2.2	BA1Y1R1410	7.20	208/1	46.00	50	CU 2	4TRB3036B1	208/1	18.0	30	1	3.0	33.9	24.0	13.0	1, 2

NOTES AND SPECIFICATIONS

- THE MECHANICAL CONTRACTOR SHALL COMPLY WITH THE FLORIDA BUILDING CODES, THE STATE OF FLORIDA ENERGY CODE, AND ALL LOCAL CODES AS MAY BE APPLICABLE.
- MECHANICAL PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER SIMILAR OR DIFFERENT FEATURES WILL NOT BE REQUIRED. ALL RISERS AND DROPS IN PIPING AND DUCTWORK NOT NECESSARILY SHOWN.
- WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL AIR CONDITIONING SYSTEM.
- THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO INSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL, ETC.).
- VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS OR FIELD DIMENSIONS.
- UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
- CONTRACTOR SHALL FURNISH AND INSTALL CURBS AND BASES FOR ALL EQUIPMENT AS SHOWN ON PLAN. THIS CONTRACTOR SHALL CONFIRM ALL CURB REQUIREMENTS AND THEIR SIZES.
- PROVIDE INSULATION FOR REFRIGERANT LINES SIMILAR TO ARMAFLEX. WEATHER-EXPOSED INSULATION TO BE PROVIDED WITH WEATHER PROOF COATING AS RECOMMENDED BY MANUFACTURER. EXPOSED CONDENSATE LINES THOSE CONCEALED IN WALLS AND CEILINGS TO BE PROVIDED WITH SAME TYPE OF INSULATION.
- EQUIPMENT AS PER SCHEDULED LIST OF ACCEPTABLE MANUFACTURERS:
A/C EQUIPMENT: TRANE, CARRIER, AAO, ADDISON
A/C GRILLES: METALAIR, TITUS, KRUEGER, PRICE
FANS: PENN, GREENHECK, COOK, NUTONE, BROAN
LOUVERS: RUSKIN, GREENHECK, KRUEGER, TITUS, NCA
- ALL EQUIPMENT SHALL BE STARTED, TESTED, ADJUSTED AND BALANCED FOR AIR DELIVERY AS INDICATED ON THE PLANS, AND PLACED IN SATISFACTORY OPERATIONAL CONDITION BY A TEST AND BALANCE COMPANY WHOSE SOLE BUSINESS IS THE TESTING, ADJUSTING AND BALANCING OF SYSTEMS OF SIMILAR SIZE AND TYPE. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. THIS IS IN ADDITION TO ANY WARRANTY OR GUARANTEE FROM THE EQUIPMENT MANUFACTURER. FURNISH THE OWNER WITH THE MANUFACTURER'S WRITTEN WARRANTY CERTIFICATES.
- ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED WITH SPRING ISOLATORS. ALL CONNECTIONS BETWEEN AIR HANDLING EQUIPMENT AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS FOR ALL SYSTEMS ABOVE 5 NOMINAL TONS IN SIZE.
- PROVIDE SPRING ISOLATORS FOR ALL TRUSS MOUNTED EXHAUST FANS.
- ALL EQUIPMENT SHALL BE LOCATED WITHIN THE MECHANICAL ROOM AND CEILING SPACES WITH ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT. CONTRACTOR SHALL ENSURE THAT NO TRANSGRESSION OF THIS SPACE IS MADE BY OTHER CONTRACTORS.
- ALL CONTROL WIRING SHALL BE IN CONDUIT. WHERE CONTROL WIRING IS CONCEALED BY CEILING STRUCTURE, WIRING MAY BE PLENUM RATED CABLE. ALL CONTROL WIRING SHALL BE SECURELY ATTACHED TO THE STRUCTURE AT A MAXIMUM SPACING OF EVERY FOUR FEET.
- DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN CEILING SPACES PROVIDED UNLESS NOTED OR INDICATED OTHERWISE. ROUTING SHALL BE COORDINATED WITH OTHER TRADES. DO NOT INSTALL ANY DUCTWORK OR PIPING OF ANY KIND ABOVE ELECTRICAL PANEL.
- ALL DUCTWORK, INSTALLATION AND EQUIPMENT SHALL MEET THE LATEST ADOPTED EDITION OF THE STATE OF FLORIDA ENERGY CODE.
- ALL DUCTWORK SHALL BE FABRICATED, SUPPORTED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF CLASS B "HVAC CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" TO A MINIMUM OF 2" PRESSURE CLASSIFICATION AND CLASS B SEAL. ALL DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK DUCTWRAP WITH FOIL FACING.
- FLEXIBLE DUCTWORK, WHERE SHOWN ON THE DRAWINGS, SHALL BE EQUAL TO FLEXARE WITH WIRE HELIX FRAME, POLYESTER LINER, HIGH DENSITY FIBERGLASS INSULATION AND METALLIZED REINFORCED VAPOR BARRIER EXTERIOR COVERS. PROVIDE SPIN-IN FITTINGS WITH BELL MOUTH TYPE FITTINGS WITH ADJUSTABLE DAMPERS FOR ALL BRANCH TAKEOFFS (WHERE INDICATED ON PLANS). FLEXIBLE DUCTWORK SHALL BE PROPERLY SUPPORTED WITH GALVANIZED STEEL STRAPS 2" WIDE AND SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH NO KINKS OR BENDS TO RESTRICT AIRFLOW.
- OUTSIDE AIR AND TOILET EXHAUST DUCTWORK SHALL BE METAL. CAPS SHALL BE ALUMINUM CONSTRUCTION WITH BIRD AND INSECT SCREENS.
- HVAC SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE TITUS WITH WHITE FINISH, ALUMINUM CONSTRUCTION. SEE PLANS FOR THROAT CONNECTION SIZES.
- THERMOSTATS SHALL BE 7 DAY PROGRAMMABLE WITH L.C.D. READOUT FOR ONE OR TWO STAGES BASED ON STAGES OF COOLING FOR UNIT BEING SERVED. EQUAL TO WHITE-RODGERS MODEL 1F95-1291. WALL MOUNTED THERMOSTATS SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
- THESE CONTRACT DOCUMENTS REPRESENT A PORTION OF A COMPLETE DESIGN WHICH, TO THE BEST OF OUR KNOWLEDGE HAVE BEEN PREPARED IN COMPLIANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. THE USE OF THESE PLANS WITHOUT THE CONSENT OF THE ENGINEER OF RECORD IS PROHIBITED. ALTERATIONS TO THE DESIGN AS SHOWN ON THESE PLANS ARE ONLY ALLOWED BY WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD.
- H.V.A.C. CONTRACTOR SHALL PROVIDE ONE SET OF CUTSHEETS OF ALL SELECTED EQUIPMENT TO ELECTRICAL CONTRACTOR TO ADJUST CIRCUIT REQUIREMENTS (IF REQUIRED) BASED ON ACTUAL SELECTED MANUFACTURER'S DATA.
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES. REFERENCE ENTIRE SET OF CONSTRUCTION DOCUMENTS IN INSTALLATION OF MECHANICAL SYSTEMS INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING AND FIRE SPRINKLERS.
- CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTOR IN SUPPLY WHERE INDICATED ON PLANS OR AS REQUIRED BY CODE AND AUTHORITY HAVING JURISDICTION. DUCT SMOKE DETECTOR SHALL BE COMPATIBLE WITH FIRE ALARM MONITORING SYSTEM.
- PROVIDE 1 HOUR FIRE DAMPER AT ALL PENETRATIONS THROUGH RATED WALL ASSEMBLIES.

HVAC SYMBOLS

DESCRIPTION	SYMBOLS
DIFFUSER TAG: DIFFUSER TYPE	CFM
HUMIDISTAT	⊕
THERMOSTAT	⊖
EXHAUST FAN	EF-#
SURFACE MOUNTED DIFFUSER	⊠ (SUPPLY) ⊡ (RETURN)
WALL MOUNTED DIFFUSER, GRILLE OR LOUVER	⊞ (SUPPLY) ⊟ (RETURN)
LINEAR SLOT OR BAR GRILLE	—
SPIN-IN SADDLE TAP FITTING, NO DAMPER	⊔
SPIN-IN SADDLE TAP FITTING W/ BALANCING DAMPER	⊞
REFR. LINES	REFG
REVISION #	⚠
KEYNOTE NUMBER	Ⓛ
HORIZONTAL DUCT	—
SUPPLY DUCT TURNING UP	⊞
RETURN DUCT TURNING UP	⊟
DUCT TRANSITION	⊞ ⊟
RECTANGULAR ELBOW WITH TURNING VANES	⊞
RECTANGULAR TEE WITH TURNING VANES	⊞
DUCT SMOKE DETECTOR	⊞
VOLUME DAMPER	⊞
FIRE DAMPER	⊞
DUCT MOUNTED TEMPERATURE SENSOR	⊞
FLEXIBLE DUCT	—
MOTORIZED VOLUME DAMPER	⊞

ABBREVIATIONS

Ø	DIAMETER
A/C	AIR CONDITIONING
AF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
DWG	DRAWING
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
KW	KILOWATT
MFR	MANUFACTURER
MAX	MAXIMUM
MBH	BTUH X 1000
MECH	MECHANICAL
MIN	MINIMUM
OA	OUTSIDE AIR
REQ'D	REQUIRED
SBCO	SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
TSTAT	THERMOSTAT
UL	UNDERWRITERS LABORATORIES
W	WITH
W/O	WITHOUT

FLEX DUCT RUNOUT NOTES

TYPICAL FOR ALL RUNOUTS FROM MAIN SUPPLY (OR RETURN) DUCT TO DIFFUSER. PROVIDE WITH ROUND SPIN-IN WITH DAMPER AT DUCT CONNECTION. RUN DUCT IN EXTERNALLY INSULATED GALVANIZED SHEETMETAL SNAP-LOCK UP TO WITHIN 5' OF DIFFUSER. MAKE FINAL CONNECTION TO DIFFUSER WITH INSULATED FLEX DUCT. NO MORE THAN 5' OF FLEX DUCT MAY BE USED. ROUND DUCT AND FLEXIBLE DUCT SHALL MATCH DIFFUSER NECK SIZE (WHERE ROUND). FOR ALL OTHER GRILLES WITHOUT ROUND NECK, SIZE SHALL BE PER FOLLOWING RUNOUT SCHEDULE.

4"	0 TO 50 CFM
6"	51 TO 125 CFM
8"	126 TO 225 CFM
10"	226 TO 350 CFM
12"	351 TO 600 CFM

ALL DIFFUSER CONNECTIONS LARGER THAN 600 CFM SHALL BE MADE FULL DUCT SIZE AS INDICATED ON PLANS TO DIFFUSER.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	NECK SIZE	CFM RANGE	REMARKS
A	TITUS	TMS-AA	6"	0 - 125	1, 2, 3, 5, 6
		24X24-3-26-AG75	8"	126 - 225	
			10"	226 - 350	
B	TITUS	250-AA	8 X 4	0 - 50	1, 2, 4
		1-26-N-AG15-L1	12 X 6	51 - 125	
M	TITUS	50F-3-26-A	22 X 22	0 - 1200	1, 3, 6
N	TITUS	50F-1-26-A	12 X 12	0 - 500	1, 4, 6
			18 X 12	501 - 850	
			18 X 18	851 - 1200	
			24 X 24	1201 - 2000	

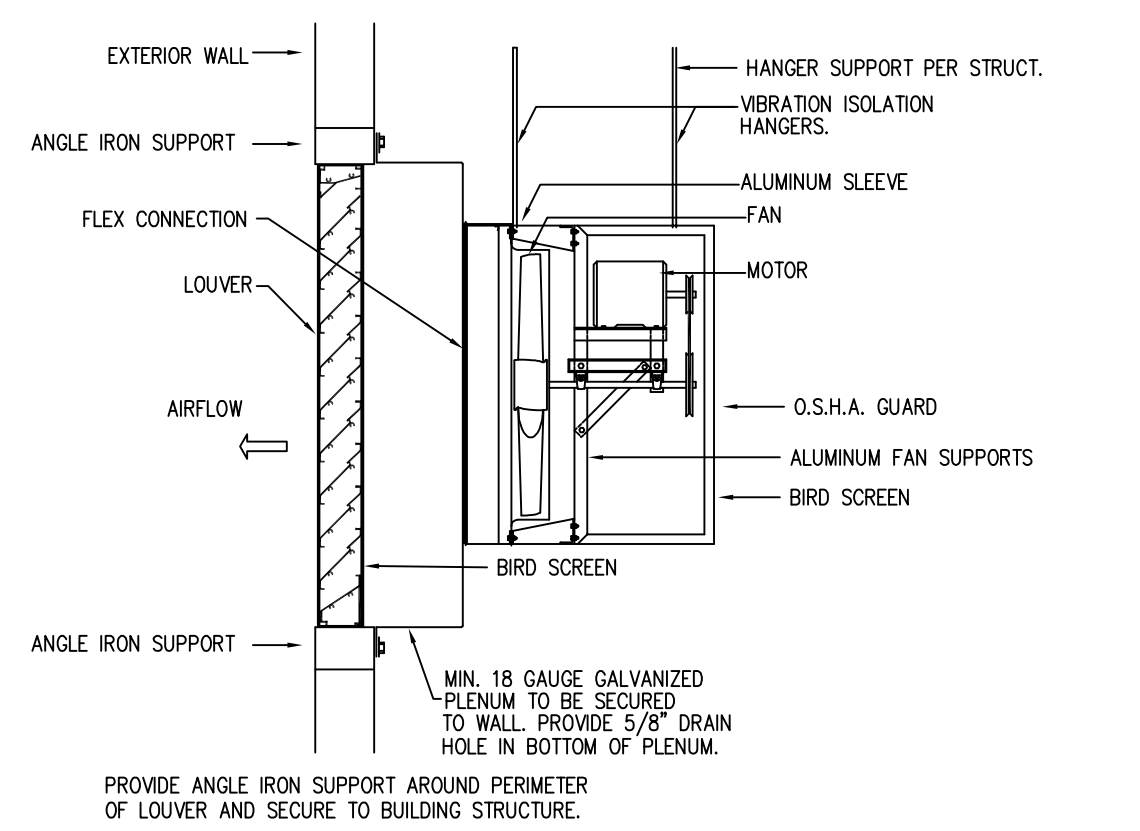
- REMARKS**
- WHITE FINISH, ALUMINUM CONSTRUCTION
 - OPPOSED BLADE VOLUME DAMPER
 - TILE LAY IN DIFFUSER
 - SURFACE OR DUCT MOUNTED DIFFUSER
 - FLEXIBLE DUCT RUN-OUT SIZE TO MATCH DIFFUSER NECK SIZE
 - PROVIDE TITUS "T" PLASTER FRAME ACCESSORY WHERE INSTALLED IN HARD CEILING

FAN SCHEDULE

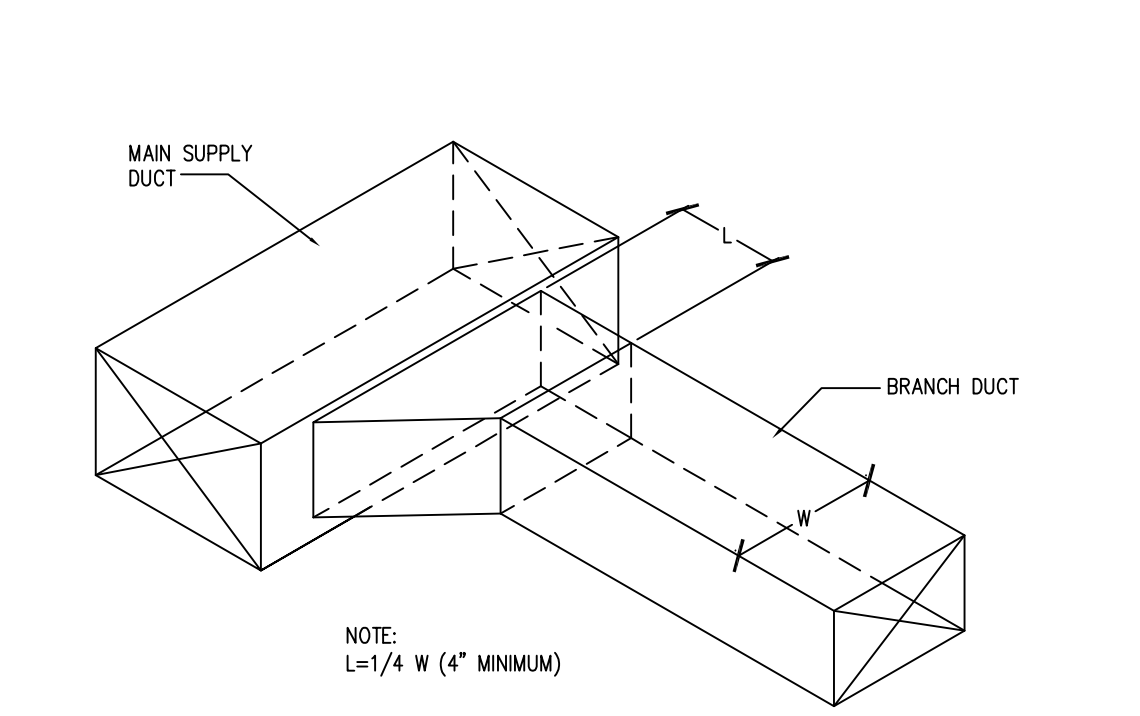
MARK	MANUFACTURER	MODEL	CFM	ESP	HP	VOLT	AMPS	SONES	WEIGHT	REMARKS
EF-1	BROAN	QTXE050	50	0.1	-	120/1	19.7W	0.3	12.4	1, 2
EF-2	BROAN	QTXE150	150	0.1	-	120/1	51.3W	1.4	13.6	1, 2
EF-3	GREENHECK	SE1-16-428-C6	1725	0.25	1/6	120/1	-	3.1	35	3
EF-4	GREENHECK	SE2-30-30-618-C7	7892	0.25	3/4	208/1	-	5.3	125	3

- REMARKS**
- PROVIDE WITH BACKRAFT DAMPER
 - SWITCH WITH LIGHTS IN ROOM
 - DIRECT DRIVE WALL PROPELLER EXHAUST FAN TO BE PROVIDED WITH OSHA WIRE GUARD, BACKRAFT DAMPER AND MIAMI-DADE APPROVED EXHAUST LOUVER.

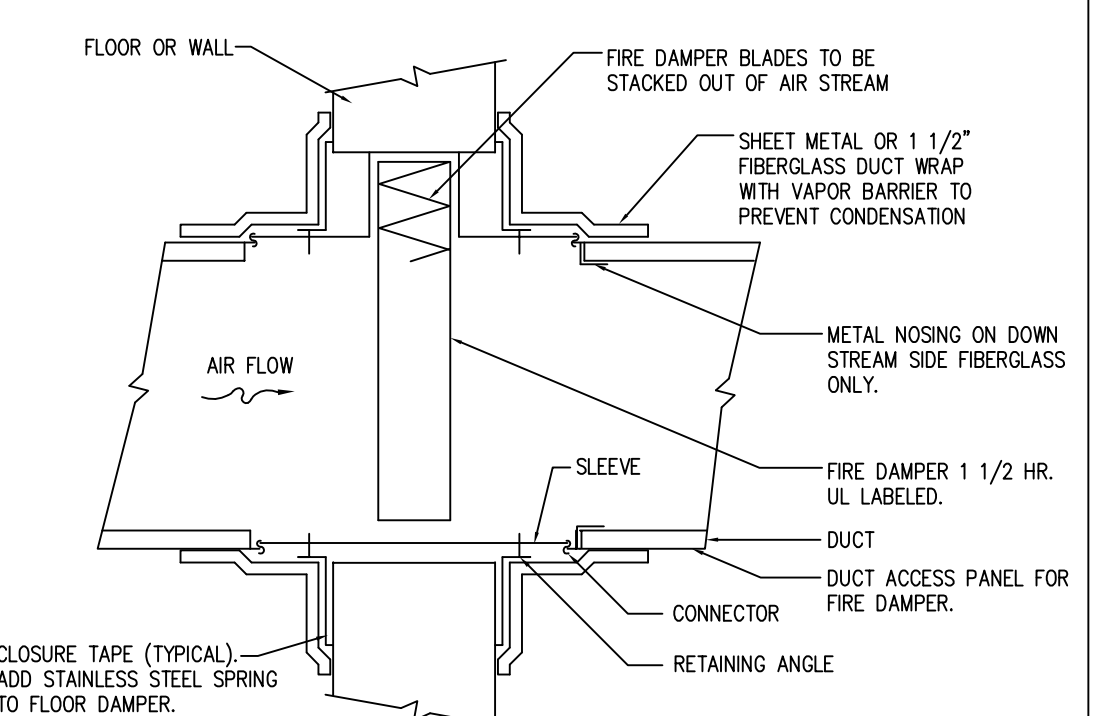
WALL PROP FAN DETAIL



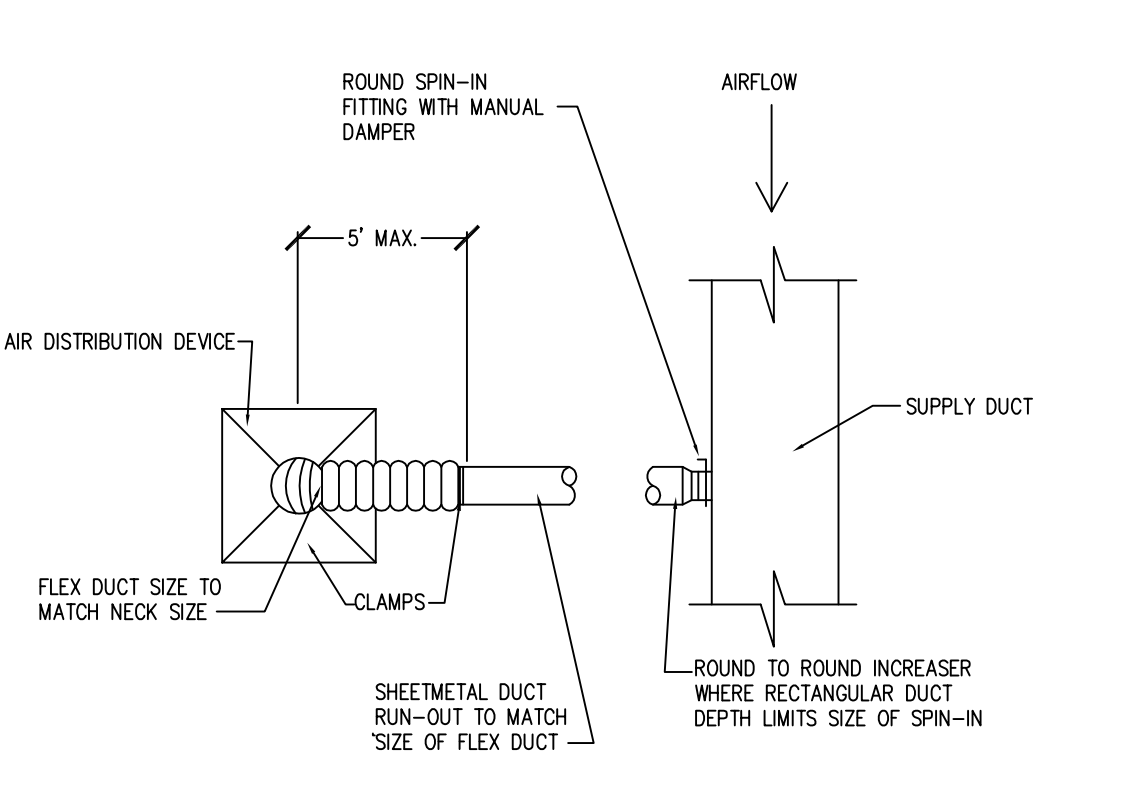
SUPPLY BRANCH DUCT DETAIL



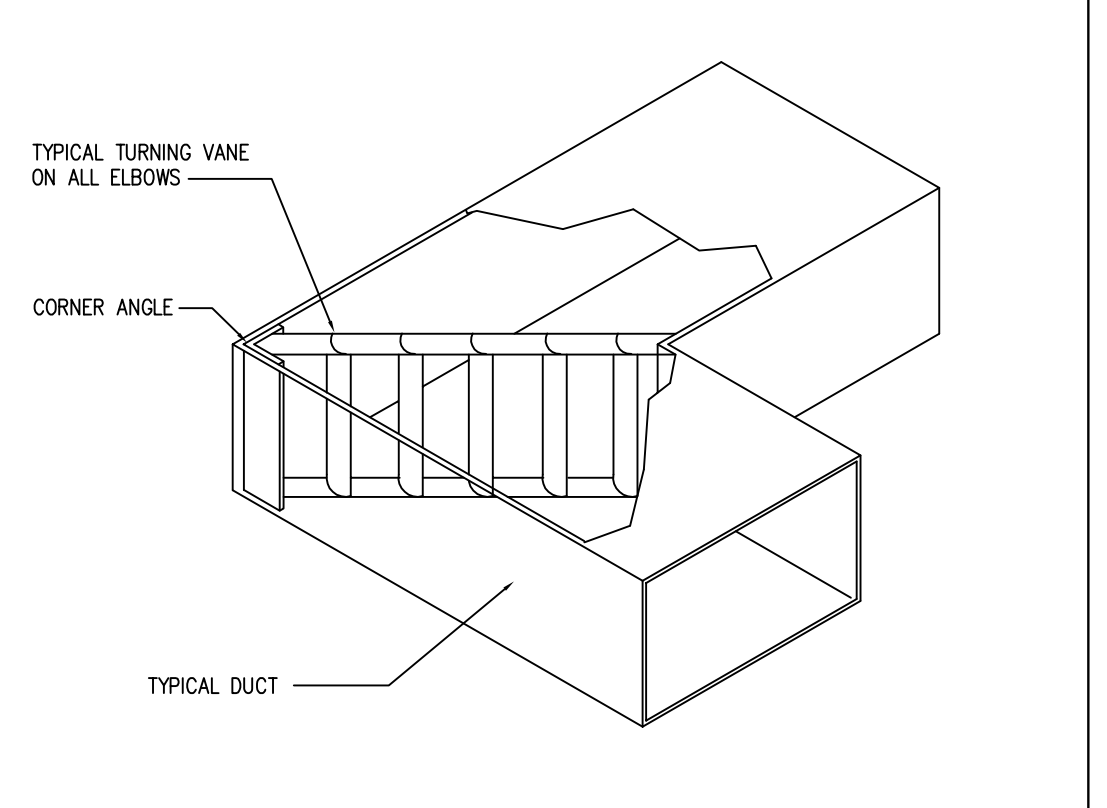
TYPICAL FIRE DAMPER



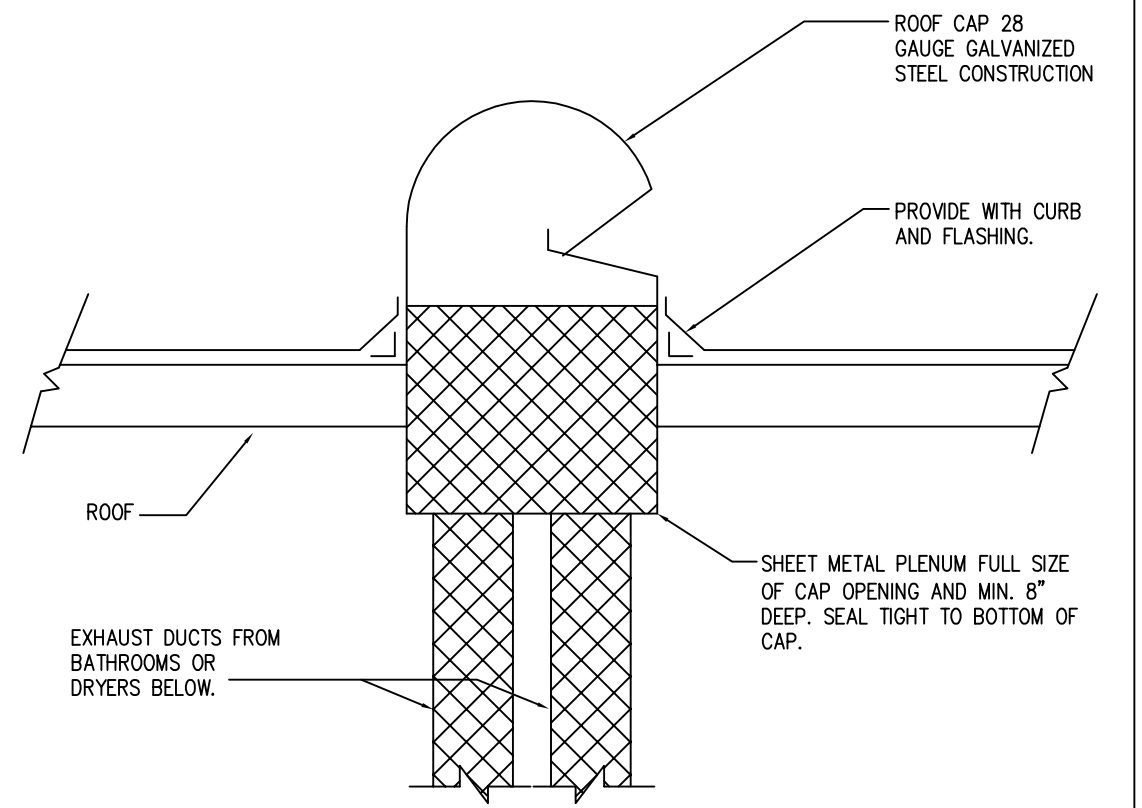
DIFFUSER CONNECTION DETAIL (ROUND NECK)



ELBOW TURNING VANE DETAIL



ROOF CAP AND DUCT CONNECTIONS DETAIL



PROJECT:

City of Naples
Recycle Transfer Facility

Enterprise Avenue
Naples, Florida

REV.	DESCRIPTION	BY	DATE
07 - 25 - 12			

DATE: 07 - 25 - 12
PROJECT NO: 11-484
CAD DWG FILE: DDA12.01
DRAWN BY: MAB/JWB
CHK'D BY: MAB/JWB


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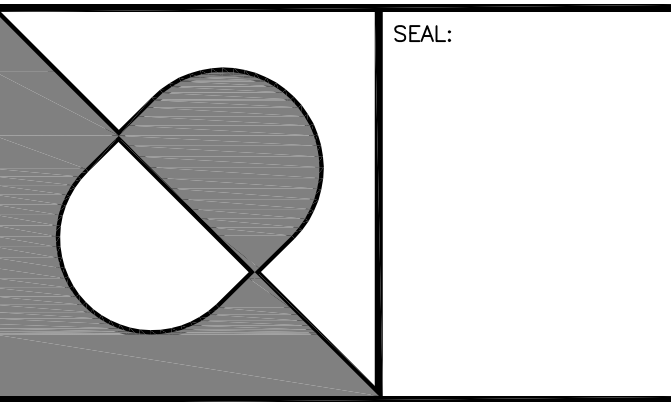
SHEET TITLE:
HVAC Notes, Details and Schedules

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ARCHITECTURE
and
PLANNING

FLORIDA REGISTRATION AA 0002502

NOTES:

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SHEET TITLE:
HVAC Plan

M-101

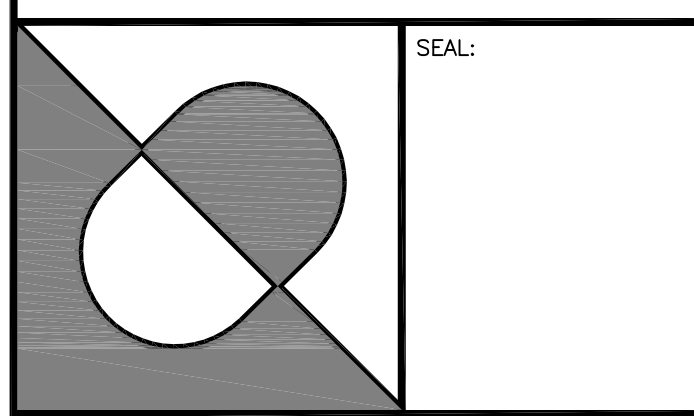
- KEYNOTES**
- EF-4 WALL MOUNTED FAN TO BE SECURED TO PLENUM AND EXHAUST TO 4"x4" MIAMI-DADE HURRICANE LOUVER EQUAL TO GREENHECK ESD635-D. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. FAN IS LOCATED ABOVE LOW ROOF OF OFFICE SECTION.
 - PROVIDE NEW 60"x60" MIAMI-DADE APPROVED HURRICANE LOUVER EQUAL TO GREENHECK ESD635-D. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
 - EF-3 WALL MOUNTED FAN TO BE SECURED TO PLENUM AND EXHAUST TO 24"x24" MIAMI-DADE HURRICANE LOUVER EQUAL TO GREENHECK ESD635-D. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
 - PROVIDE NEW 30"x24" MIAMI-DADE APPROVED HURRICANE LOUVER EQUAL TO GREENHECK ESD-6350. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
 - BATHROOM EXHAUST UP TO FIELD FABRICATED ROOF CAP.
 - LOCKER ROOM EXHAUST TO BE DUCTED TO 12" X 12" EXHAUST GRILLE IN CEILING TITUS MODEL 63FS, SURFACE MOUNTED. PAINT TO MATCH CEILING.
 - EXTEND REFRIGERANT PIPING UP IN WALL AS SHOWN INTO TRUSS SPACE, EXTEND TO RESPECTIVE AHU. PROVIDE PROPER SUPPORTS AS REQUIRED.
 - PROVIDE OUTSIDE AIR DUCTWORK WITH MOTORIZED DAMPER INTERLOCK TO AHU. OUTSIDE AIR LOUVER 18 X 12 WITH INSECT SCREEN, GREENHECK MODEL ESD-6350 MIAMI-DADE APPROVED HURRICANE LOUVER. COORDINATE LOCATION WITH SPRINKLER MAIN.



1 HVAC PLAN
SCALE: 1/8" = 1'-0"

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SHEET TITLE: Plumbing Notes, Details and Schedules			

MARK	FIXTURE TYPE	MAKE - MODEL	MATERIAL	ACCESSORIES	REMARKS	TRAP	COLD	HOT	SANITARY
L-1	LAVATORY/A.D.A.	AMERICAN STANDARD - "DECLYN" 0321.075	VITREOUS CHINA	AMERICAN STANDARD "INSBROOK" SELECTRONIC FAUCET. BATTERY OPERATED, PROVIDE WALL CARRIER	1,4,5,6,8,9	1 1/4"	1/2"	1/2"	2"
L-2	LAVATORY/A.D.A.	BRADLEY SS-3N/R/STD/LSD-3/TMA	MODULAR	INSTALL SOLENOID AND TRANSFORMERS AS REQUIRED.	1,4,5,6,8,9	1 1/4"	1/2"	1/2"	2"
WC-2	WATER CLOSET - FLUSH VALVE, A.D.A.	AMERICAN STANDARD - MADERA 3043.102	VITREOUS CHINA	PROVIDE WITH OPEN FRONT SEAT WITH STAINLESS STEEL CHECK HINGES, AMERICAN STANDARD SELECTRONIC 1.6GPF FLUSH VALVE	1,3,5	INTEGRAL	1"	-	3"
EWC	ELECTRIC WATER COOLER	ELKAY EZTLC WALL MOUNT BARRIER FREE COOLER	STAINLESS STEEL	-	7,8	1 1/4"	1/2"	-	-
FD-1	FLOOR DRAIN	ZURN #ZM-415 TYPE S STRAINER	CI BODY, NB TOP	TRAP PRIMER BY PRECISION	-	3"	-	-	3"
FD-2	HEAVY DUTY FLOOR DRAIN	ZURN #ZNS43	CI BODY, NB TOP	-	-	3"	-	-	3"
HB	HOSE BIBB	WOODFORD MODEL 24 ANTI-SIPHON HOSE BIBB	BRASS VALVE BODY	METAL REMOVABLE T-HANDLE KEYS NO PLASTIC HANDLES	-	-	3/4"	-	-
HB	HOSE BIBB	WOODFORD MODEL B24 ANTI-SIPHON HOSE BIBB	BRASS VALVE BODY	FLUSH MOUNTED WALL BOX, LOOSE KEY FOR ALUMINUM LOCK BOX	-	-	3/4"	-	-
MS	MOP SINK	MUSTEE #63.600 SERVICE FAUCET AND #65.700 HOSE AND HOSE BRACKET - PROVIDE VACUUM BREAKER WITH FAUCET	MOLDED STONE	-	-	3"	1/2"	1/2"	3"
KS	SINK	ELKAY "CELEBRITY" CR1721 WITH SINGLE FAUCET HOLE	STAINLESS STEEL	ELKAY #K-20888	-	1 1/2"	1/2"	1/2"	2"
SHR	SHOWER	FIELD FABRICATED	-	PROVIDE WITH SHOWER DRAIN, GRAB BARS AND SYMMONS 1-117-FSB-285 MIXING VALVE ASSEMBLY WITH PRESSURE BALANCING VALVE, SLIDE BAR WITH HAND HELD SPRAYER, SHOWER HEAD AND DIVERTER VALVE. AT A.D.A. SHOWER PROVIDE SHOWER ASSEMBLY WITH L-SHAPED GRAB BAR AND FOLD-UP SEAT.	-	2"	1/2"	1/2"	2"
EE-DS	EYEWASH/DRENCH SHOWER	HAWS 8300.158	GALV. STEEL	PROVIDE WITH ALARM, MODEL 9001	-	-	1 1/4"	-	-
FCO	FLOOR CLEANOUT	ZURN #Z1402	CAST IRON	-	10	-	1 1/4"	-	-

MARK	MFR.	MODEL	INPUT (KW)	ELECTRICAL V-PH-HZ	SIZE (GALLONS)	REMARKS
EWH	A.O. SMITH	DEN-40	4.5	208-1-60	40	1

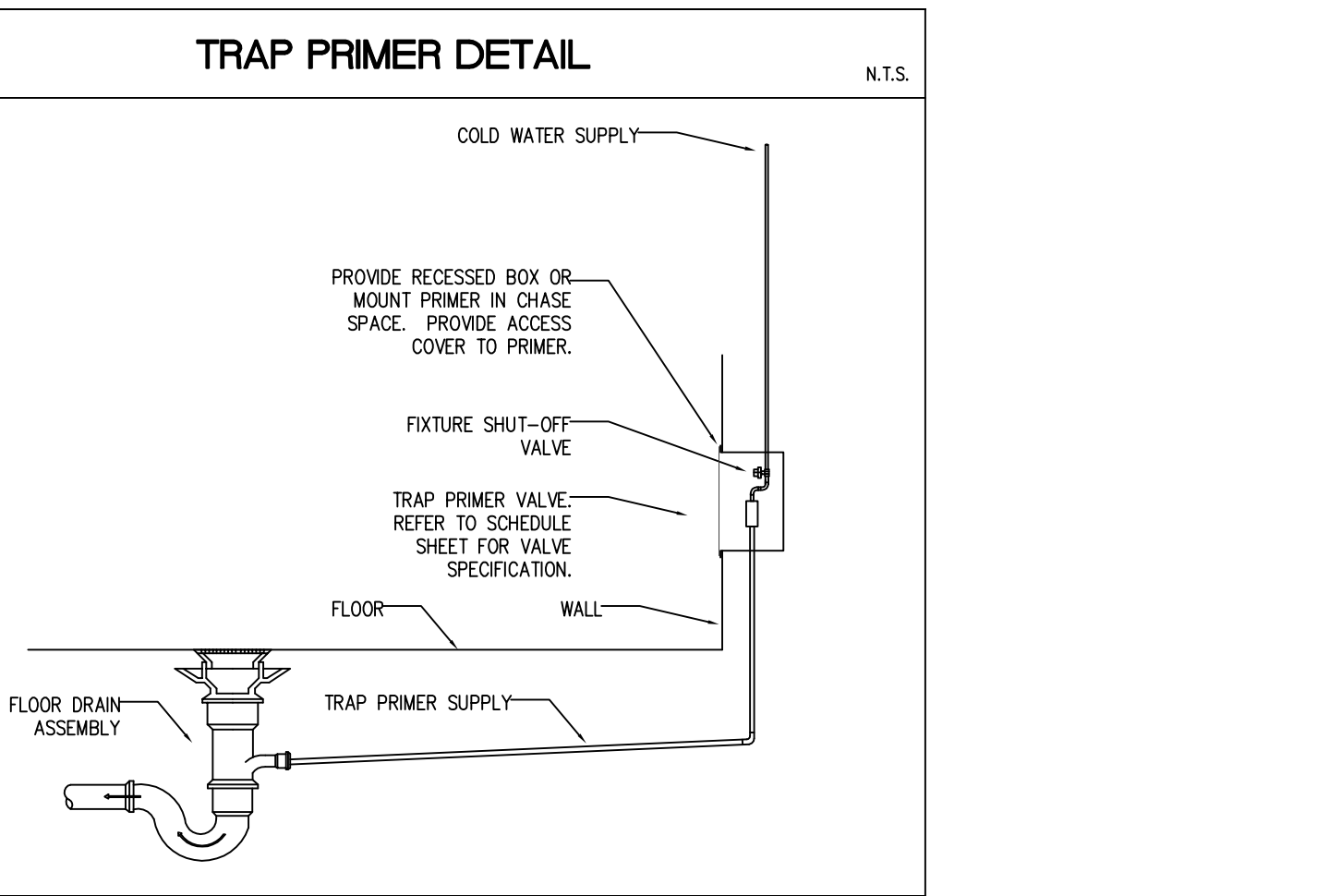
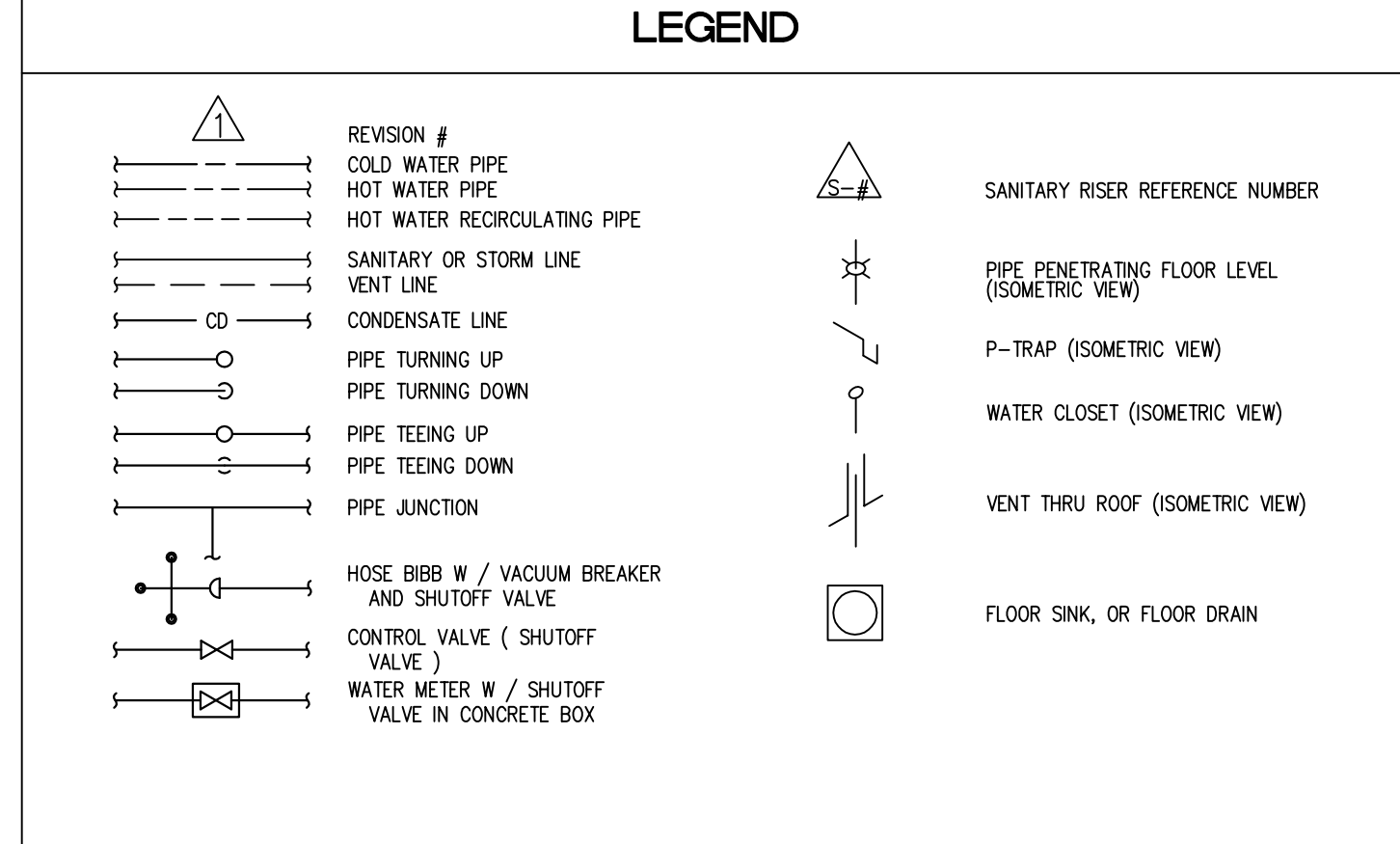
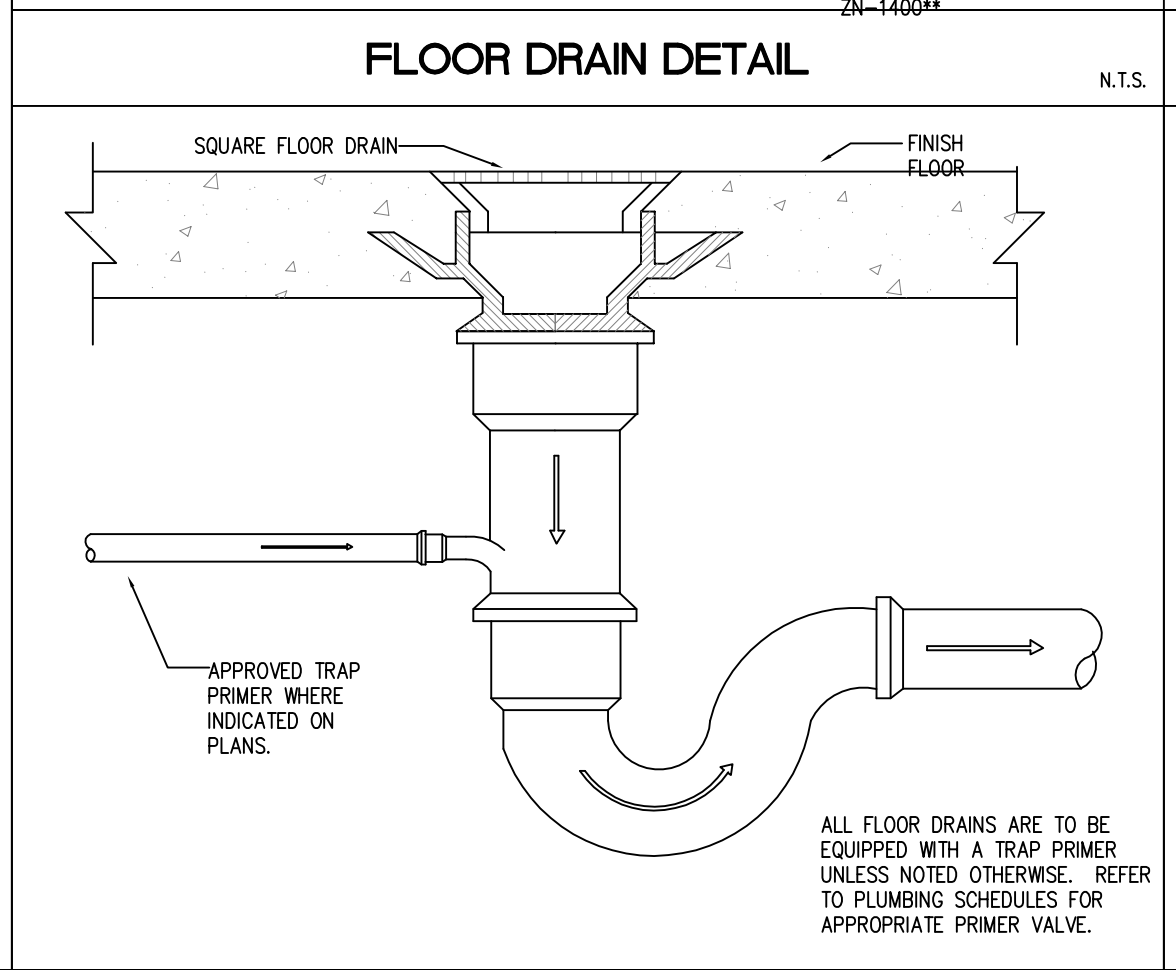
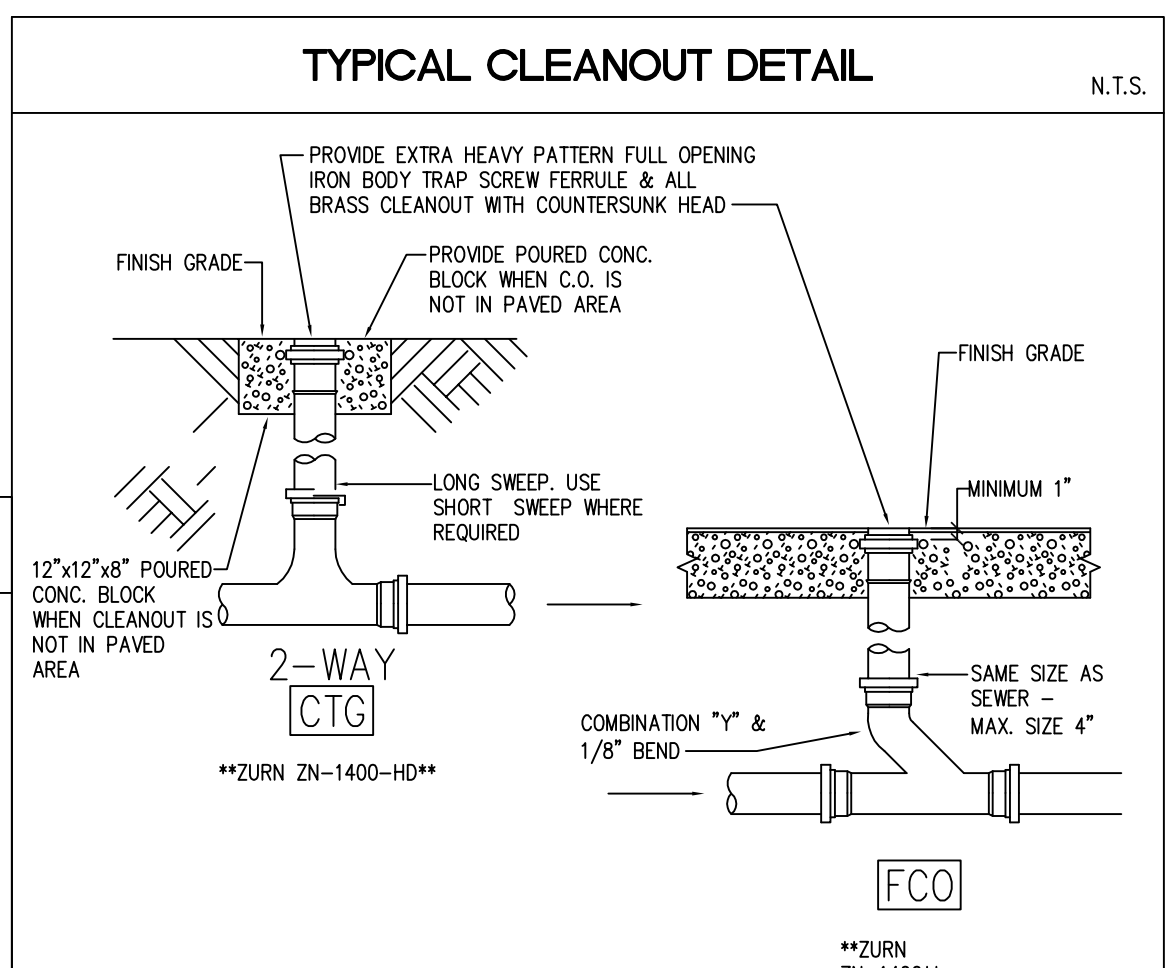
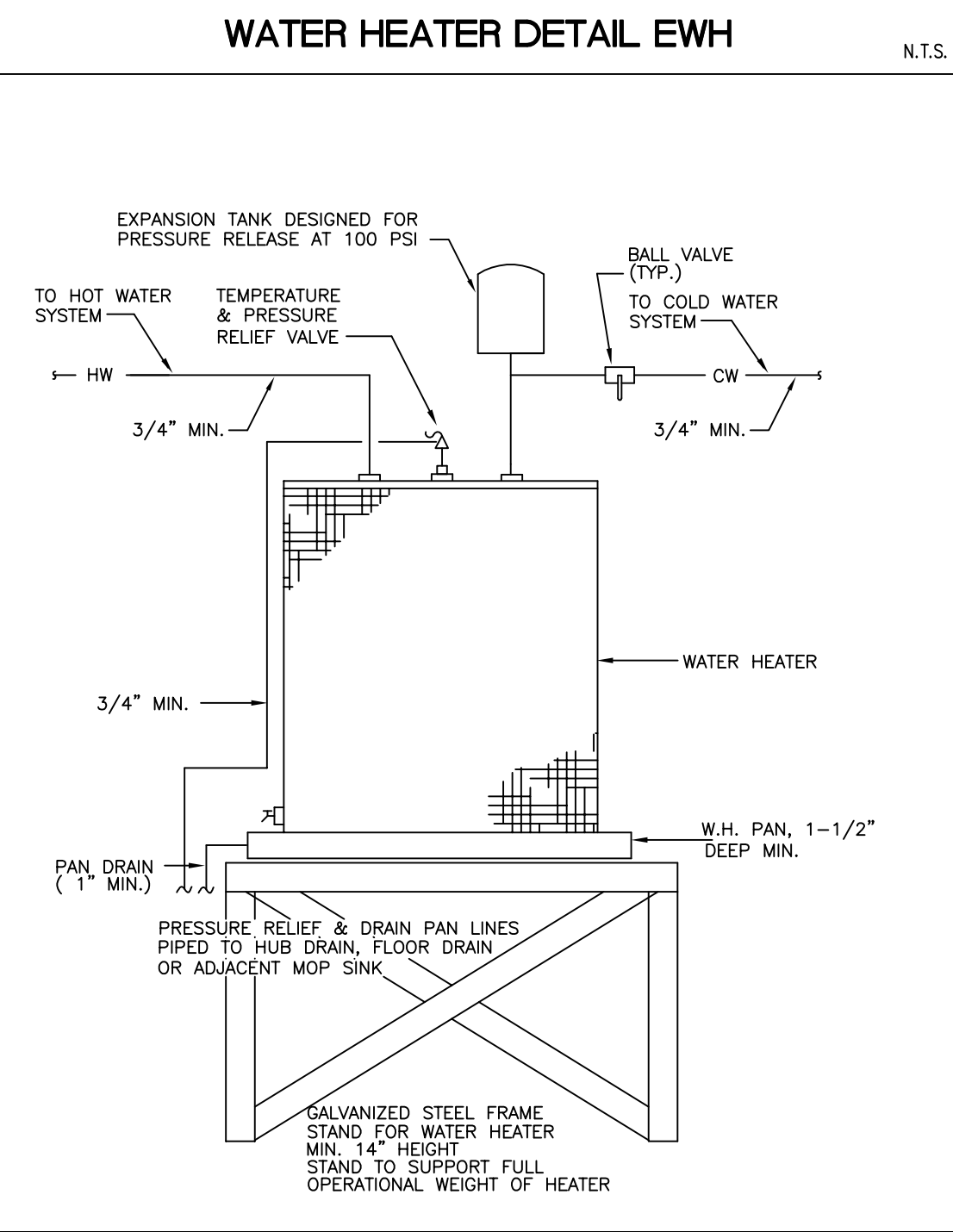
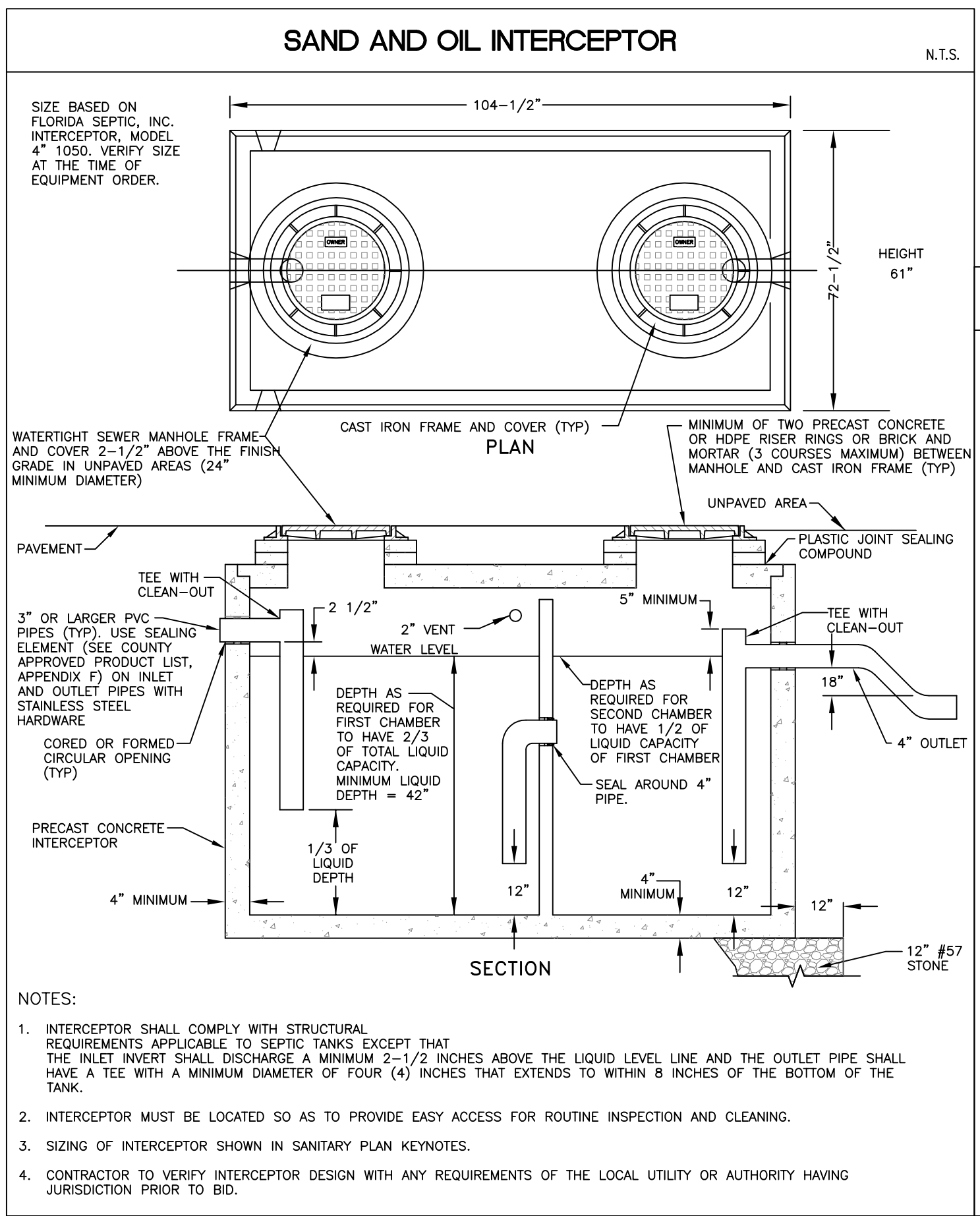
1. PROVIDE WITH PAT VALVE, EXPANSION TANK AND GALVANIZED STEEL DRAIN PAN.

ABBREVIATIONS

- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISHED FLOOR
- AHU AIR HANDLING UNIT
- BS BAR SINK
- CD CONDENSATE DRAIN
- CTG CLEANOUT TO GRADE
- CW CONDENSING WATER
- DFU DRAINAGE FIXTURE UNITS DOWN
- DN ENVIC ELECTRIC WATER COOLER
- EWH ELECTRIC WATER HEATER
- FA FROM ABOVE
- FB FROM BELOW
- FCO FLOOR CLEANOUT
- FD FLOOR DRAIN
- FS FLOOR SINK
- GAL GALLON
- GPF GALLONS PER FLUSH
- GMF GALLONS PER MINUTE
- GWH GAS WATER HEATER
- HB HOSE BIBB
- HE HOT WATER
- KS KITCHEN SINK
- LAV LAVATORY
- MOP MOP SINK
- MS OUTSIDE AIR UNIT
- PRD PRIMARY ROOF DRAIN
- PRV PRESSURE REDUCING VALVE
- PRW PRIMARY RAIN WATER LEADER
- RD ROOF DRAIN
- REF REFRIGERATOR
- RL RAIN WATER LEADER
- RTU ROOF TOP UNIT (PACKAGE)
- SAN SANITARY
- SRL SECONDARY RAIN WATER LEADER
- SDR SECONDARY DRAIN
- SRD SECONDARY ROOF DRAIN
- SH SHOWER
- SOV SHUT OFF VALVE (GATE VALVE)
- TD TRENCH DRAIN
- UG UNDER GROUND
- U/S UNDER SLAB
- UR URINAL
- VB VACUUM BREAKER
- VTR VENT THROUGH ROOF
- WC WATER CLOSET
- WCD WALL CLEANOUT
- WH WALL HYDRANT
- WHA WATER HAMMER ARRESTOR
- WSFU WATER SUPPLY FIXTURE UNIT

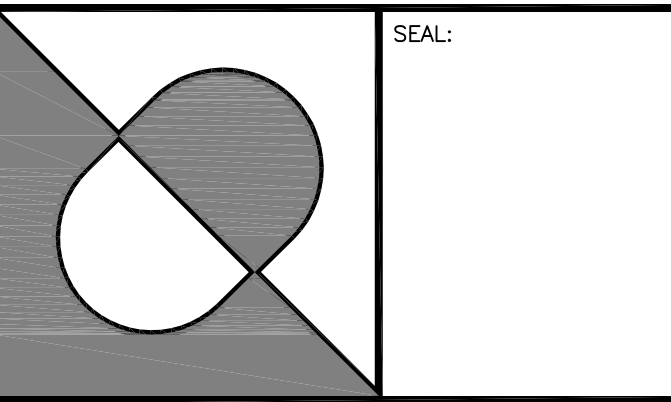
NOTES AND SPECIFICATIONS

- THESE CONTRACT DOCUMENTS REPRESENT A PORTION OF A COMPLETE DESIGN WHICH, TO THE BEST OF OUR KNOWLEDGE HAVE BEEN PREPARED IN COMPLIANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. THE USE OF THESE PLANS WITHOUT THE CONSENT OF THE ENGINEER OF RECORD IS PROHIBITED. ALTERATIONS TO THE DESIGN AS SHOWN ON THESE PLANS ARE ONLY ALLOWED BY WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD.
- THE PLUMBING CONTRACTOR SHALL COMPLY WITH THE 2010 FLORIDA BUILDING CODES, THE STATE OF FLORIDA ENERGY CODE, AND ALL LOCAL CODES AS MAY BE APPLICABLE AS WELL AS ALL.
- PLUMBING PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER SIMILAR OR DIFFERENT FEATURES WILL NOT BE REQUIRED. ALL RISERS AND DROPS IN PIPING NOT NECESSARILY SHOWN.
- ALL EQUIPMENT SHALL BE TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATIONAL CONDITION BY THE PLUMBING CONTRACTOR. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF OCCUPANCY. THIS IS IN ADDITION TO ANY WARRANTY OR GUARANTEE FROM THE EQUIPMENT MANUFACTURER. FURNISH THE OWNER WITH THE MANUFACTURER'S WRITTEN WARRANTY CERTIFICATES.
- CONTRACTOR SHALL EXAMINE ALL CONSTRUCTION DOCUMENTS INCLUDING MECHANICAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR COORDINATION AND ADDITIONAL INFORMATION REGARDING INSTALLATION OF PLUMBING SYSTEMS.
- WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL PLUMBING AND SANITARY SYSTEM.
- SIX SHOP DRAWING SUBMITTALS OF ALL MAJOR EQUIPMENT SHALL BE REQUIRED FOR APPROVAL PRIOR TO ORDERING AND PROCUREMENT OF SAME. PROPOSED FIXTURE SUBSTITUTIONS SHOULD BE PROVIDED TO ARCHITECT FOR REVIEW AT LEAST 10 DAYS PRIOR TO BID.
- THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO INSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL, ETC.).
- UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
- PLUMBING CONTRACTOR RESPONSIBILITY TO BE 5 FT. BEYOND BUILDING LINE. FINAL CONNECTION TO SITE UTILITIES TO BE PLUMBER'S RESPONSIBILITY.
- CONTRACTOR SHALL VERIFY ELEVATION OF UTILITY CONNECTIONS ON SITE PRIOR TO COMMENCING WORK. NOTIFY ENGINEER PRIOR TO COMMENCING WORK OF ANY DISCREPANCIES.
- VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS OR FIELD DIMENSIONS, DO NOT SCALE OFF OF THESE PLANS.
- BURIED PIPING NEAR FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH FLORIDA PLUMBING CODE INSTRUCTIONS ON PROTECTION OF PIPES.
- DO NOT INSTALL ANY PLUMBING PIPING ABOVE ANY ELECTRICAL PANELS. COORDINATE IN THE FIELD TO AVOID CONFLICTS WITH PIPING AND PLACEMENT OF ELECTRICAL PANELS.
- ALL EXPOSED WORK SHALL BE INSTALLED LEVEL, PLUMB AND STRAIGHT IN A NEAT, ORDERLY AND WORKMAN LIKE MANNER.
- PLUMBING SYSTEM INSTALLER SHALL PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT BRACKETS, FLASHING, HARDWARE, ETC., REQUIRED TO INSTALL A COMPLETE SYSTEM.
- FIXTURES SHALL BE AS PER SCHEDULED LIST OF ACCEPTABLE MANUFACTURERS:
LAVS, SERVICE SINKS, WATER CLOSETS, URINALS: AMERICAN STANDARD, CRANE CO., ELKER PLUMBINGWARE DIV., KOHLER CO.
STAINLESS STEEL SINKS: AMERICAN STANDARD, ELKAY MFG. CO., DAYTON.
FAUCETS: DELTA, MOEN, SYMMONS, AMERICAN STANDARD.
FLUSH VALVES: SLOAN VALVE CO. (ROYAL ONLY)
WATER CLOSET SEATS: BEMIS MFG. CO., BENEKE CORP., FORBES-WRIGHT INDUSTRIES, INC., CHURCH PRODUCTS, OLSONITE CORP., OLSONITE SEATS.
FIXTURE SUPPORTS: JOSAM MFG. CO., KOHLER CO., TYLER PIPE, ZURN INDUSTRIES, INC., HYDROMECHANICS DIV.
- VITREOUS CHINA FIXTURES TO BE WHITE WITH ALL TRIM TO HAVE BRIGHT CHROME FINISH UNLESS NOTED OTHERWISE.
- COLD WATER SERVICE PIPING SHALL BE SCHEDULE 40 P.V.C. UNDER GROUND, HOT AND COLD WATER DISTRIBUTION PIPING SHALL BE TYPE L COPPER OR CPVC ABOVE GRADE.
- PLUMBING DISTRIBUTION PIPING TO BE RUN IN SPACES ABOVE THE CEILING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL RECEIVE WRITTEN PERMISSION TO INSTALL DISTRIBUTION PIPING UNDER SLAB PRIOR TO INSTALLATION. WHEN ALLOWED, UNDERSLAB DISTRIBUTION PIPING TO BE MINIMUM TYPE L COPPER WITH BRAZED JOINTS. PENETRATIONS THROUGH SLAB TO BE SLEEVED.
- CONNECT WATER MAIN TO VALVE OR STUB PROVIDED BY SITE UTILITY CONTRACTOR. PROVIDE FOR CHLORINATION OF FINAL WATER CONNECTION.
- PROVIDE MAIN SHUTOFF VALVE, RUBBER FACED CHECK VALVE, VACUUM BREAKER AND HOSE BIBB ON COLD WATER MAIN ENTERING THE BUILDING.
- ALL HOSE BIBBS ARE TO BE EQUIPPED WITH VACUUM BREAKER AND INDIVIDUAL SHUT OFF VALVE. ONE OR TWO FAMILY RESIDENTIAL UNITS ARE NOT REQUIRED TO HAVE AN INDIVIDUAL FIXTURE SHUT OFF VALVE SERVICING THE HOSE BIBB.
- IF A WATER HEATER IS SPECIFIED, INSTALL GALVANIZED STEEL WATER HEATER DRAIN PAN, MINIMUM OF 1" DEEP AND OF ADEQUATE SIZE WITH 3/4" PIPING TO ADJACENT MOP SINK, WASTE RECEPTACLE OR EXTERIOR OF BUILDING AS INDICATED ON PLANS. NOT APPLICABLE FOR HEATERS INSTALLED IN GARAGES OR THE EXTERIOR OF THE BUILDING, UNLESS NOTED OTHERWISE.
- INSULATE ALL HOT WATER AND HOT WATER RECIRCULATING LINES WITH A MINIMUM 1/2" ARMAFLEX OR EQUAL INSULATION.
- PROVIDE STOP OR ANGLE VALVE ON EACH WATER CONNECTION TO EACH PLUMBING FIXTURE.
- PROVIDE SHOCK ABSORBER TO PREVENT WATER HAMMER FOR EACH FIXTURE THAT HAS A QUICK CLOSING VALVE ASSEMBLY. SIZE OF SHOCK ARRESTORS TO BE PER P.D.I. RECOMMENDATIONS. PROVIDE ACCESS PANEL ABOVE HARD CEILING FOR ACCESS TO WATER HAMMER ARRESTORS WHERE REQUIRED.
- PROVIDE AT ALL REFRIGERATOR LOCATIONS: 3/8" CW LINE WITH CHECK VALVE TO 1/4" PETCOCK, 6" ABOVE FLOOR. FURNISH 48" OF 1/4" CPVC TUBING FOR CONNECTION TO REFRIGERATOR ICE MAKER.
- ALL DRAIN, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 P.V.C.
- PROVIDE A TWO-WAY CLEANOUT AT THE BUILDING DRAIN 18" FROM THE ENTRANCE OF THE SANITARY LINE TO THE BUILDING.
- PROVIDE AT LEAST ONE 3" MAIN VENT THROUGH ROOF IN BUILDING. DO NOT ADD ADDITIONAL VENTS THROUGH ROOF WITHOUT PRIOR APPROVAL FROM THE ARCHITECT OF RECORD.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL HVAC CONDENSATE DRAINS INCLUDING PIPING, INSULATION THERO AND DRYWELLS OR RECEPTORS. INSULATE ALL HVAC CONDENSATE LINES ABOVE SLAB WITH MINIMUM OF 1/2" FLEXIBLE FOAM INSULATION EQUAL TO ARMAFLEX. CONDENSATE LINES UNDERGROUND AND UNDERSLAB ARE TO BE A MINIMUM OF 2" IN SIZE UNLESS NOTED OTHERWISE. DRYWELLS ARE TO BE EQUIPPED WITH OVERFLOW DRAIN GOOSENECK EQUAL TO THE CONDENSATE DRAIN SIZE.
- PROVIDE CLEANOUTS AT EACH STACK RISER, AT EACH 90° CHANGE IN HORIZONTAL DIRECTION, AND AT EACH EXIT FROM BUILDING, IN ADDITION TO ALL LOCATIONS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.



THIS DRAWING IS BEING RELEASED FOR THE PURPOSE OF BID.

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ARCHITECTURE
 and
 PLANNING

FLORIDA REGISTRATION AA 0002502

NOTES:

PROJECT:
**City of Naples
 Recycle Transfer Facility**

Enterprise Avenue
 Naples, Florida

REV.	DESCRIPTION	BY	DATE

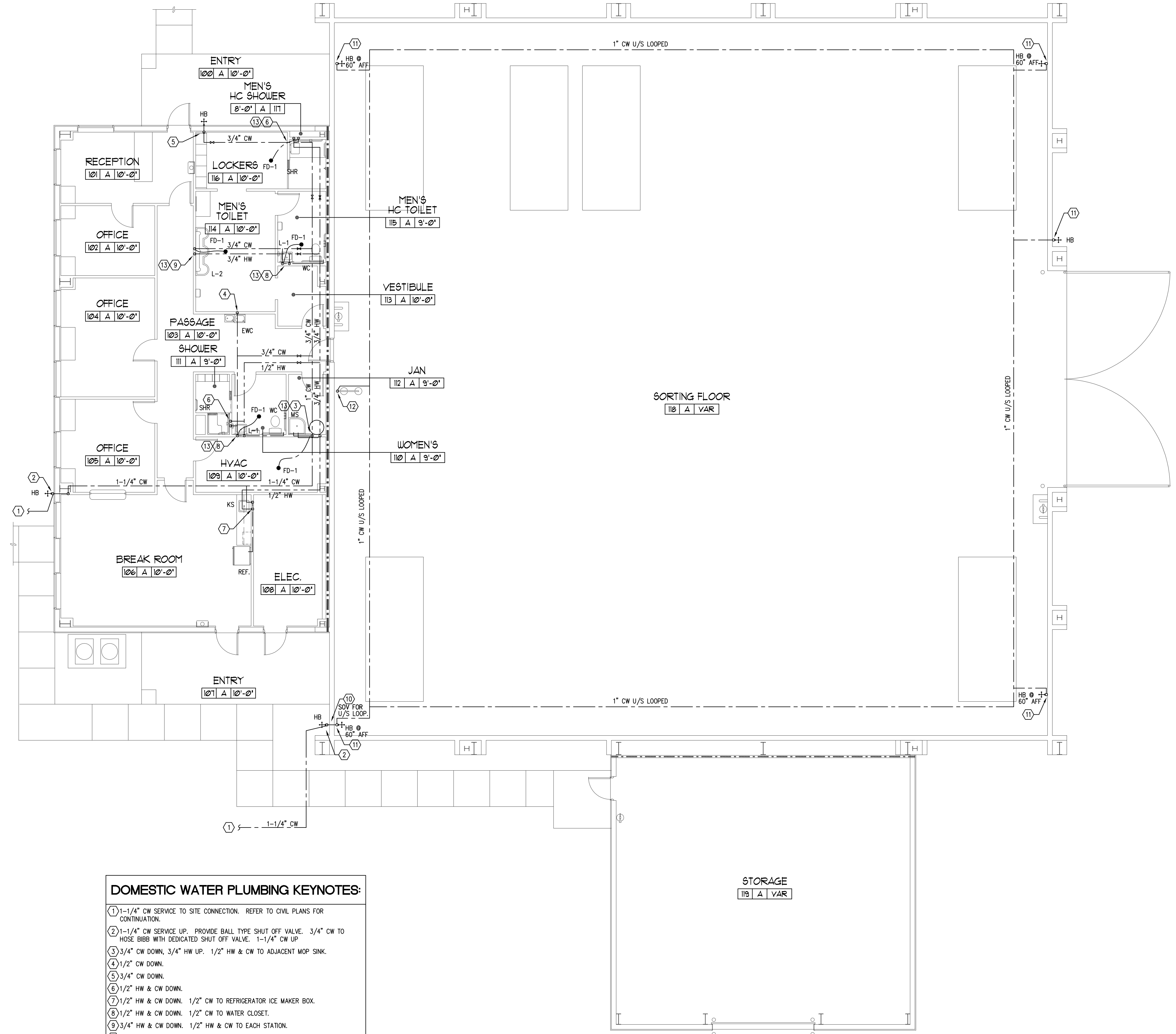
DATE: 07 - 25 - 12
 PROJECT NO: 11-484
 CAD DWG FILE: DDA12.01
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SHEET TITLE:
Domestic Water Plumbing Plan

P-102



- DOMESTIC WATER PLUMBING KEYNOTES:**
- ① 1-1/4" CW SERVICE TO SITE CONNECTION. REFER TO CIVIL PLANS FOR CONTINUATION.
 - ② 1-1/4" CW SERVICE UP. PROVIDE BALL TYPE SHUT OFF VALVE. 3/4" CW TO HOSE BIBB WITH DEDICATED SHUT OFF VALVE. 1-1/4" CW UP
 - ③ 3/4" CW DOWN, 3/4" HW UP. 1/2" HW & CW TO ADJACENT MOP SINK.
 - ④ 1/2" CW DOWN.
 - ⑤ 3/4" CW DOWN.
 - ⑥ 1/2" HW & CW DOWN.
 - ⑦ 1/2" HW & CW DOWN. 1/2" CW TO REFRIGERATOR ICE MAKER BOX.
 - ⑧ 1/2" HW & CW DOWN. 1/2" CW TO WATER CLOSET.
 - ⑨ 3/4" HW & CW DOWN. 1/2" HW & CW TO EACH STATION.
 - ⑩ 1-1/4" (SORTING ROOM) SERVICE DOWN. PROVIDE SHUT OFF VALVE.
 - ⑪ 3/4" CW UP. PROVIDE DEDICATED SHUT OFF VALVE.
 - ⑫ 1-1/4" CW UP. PROVIDE DEDICATED SHUT OFF VALVE.
 - ⑬ 1/2" CW TO TRAP PRIMER VALVE. RUN TRAP PRIMER U/S TO FLOOR DRAIN.
- NOTE: SORTING ROOM UNDERSLAB COLD WATER LOOP IS NOT TO BE DOWNSIZED IN ANY PORTION OF THE LOOP.

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

GENERAL NOTES AND REQUIREMENTS

- INSTALLATION REQUIREMENTS: THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE 2007 FLORIDA BUILDING CODE WITH 2009 AMENDMENTS, THE 2007 FLORIDA FIRE PREVENTION CODE WITH CHAPTER 69A-60 APPLICABLE N.F.P.A. CODES WHICH INCLUDES THE 2008 N.E.C. (N.F.P.A. - 70) AND 2006 LIFE SAFETY CODE (N.F.P.A. - 101) FLORIDA EDITION. THE INSTALLATION OF THE SYSTEMS SHALL BE IN ACCORD WITH THE MATERIALS AND METHODS INDICATED IN THE PLANS AND SPECIFICATIONS. ANY DESIRED DEVIATIONS SHALL BE SUBMITTED (IN WRITING) TO AND APPROVED BY THE ENGINEER. IF NOT INCLUDED IN THE SUBMITTALS AND NOT SPECIFICALLY REQUESTED, MATERIALS AND METHODS SHALL BE PROVIDED PER PLANS AND SPECIFICATIONS. THE CODES REPRESENT THE MINIMUM INSTALLATION CRITERIA FOR THE PROJECT. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ADHERE TO THE DESIGN DOCUMENTS SO LONG AS THEY DO NOT INDICATE INSTALLATIONS THAT WILL PRESENT CODE VIOLATIONS. NO ADDITIONAL CHARGES WILL BE APPROVED OR ACCEPTED TO CHANGE THE INSTALLATION IN ORDER TO COMPLY WITH CODE OR TO RETROFIT ANY WORK THAT WAS INSTALLED IN VIOLATION OF A CODE.
- WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND COSTS FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM.
- IT IS NOT THE PURPOSE OF THESE PLANS TO SHOW ALL DETAILS OF CONSTRUCTION, ONLY THE INTENT. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF ALL ITEMS SUCH AS HARDWARE, J-BOXES, CONDUITS AND FITTINGS, ETC., AS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM IN WORKING ORDER.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE BIDS BASED UPON THE ENTIRE SET OF CONSTRUCTION DOCUMENTS. THIS EXTENDS TO ALL DEVICES INDICATED ON PLANS AND ALL EQUIPMENT REQUIRED TO SUPPORT THOSE DEVICES. IF FOR ANY REASON, THE INTENT OF THE ENGINEER, ARCHITECT OR CLIENT IS UNCLEAR THEN THE CONTRACTOR IS TO GET CLARIFICATION PRIOR TO PROVIDING A BID. IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME ANY ADDITIONAL COSTS INVOLVED IN REALIZING THE INTENT OF THE ENGINEER, ARCHITECT, OR CLIENT.
- ALL EQUIPMENT, FIXTURES, ETC., SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION BY THIS CONTRACTOR WHO SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF (1) ONE YEAR FROM DATE OF OWNER ACCEPTANCE, AND SHALL REPAIR SUCH DEFECTS WITHOUT COST TO THE OWNER. ALL EQUIPMENT SHALL BE COVERED FOR THE DURATION OF THE MANUFACTURER'S GUARANTEE OR WARRANTY, AND THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL MANUFACTURER'S GUARANTEES AND WARRANTIES.
- ALL CONDUCTORS, BUSSING, ETC. SHOWN ARE TO BE COPPER UNLESS NOTED OTHERWISE.
- ALL WIRING TO HAVE THHN/THWN, 75°C INSULATION.
- MINIMUM WIRE SIZE TO BE #12 CU. MINIMUM CONDUIT SIZE IS TO BE 1/2". 20 AMP, 120 VOLT CIRCUITS SHALL HAVE CONDUCTORS SIZED PER LENGTH OF RUN (UNO): 55' OR LESS = #12 CU; 55' - 95' = #10 CU; 95' - 145' = #8 CU THESE SIZES PERTAIN TO THE HOT, NEUTRAL, AND GROUND CONDUCTORS.
- NO "WAFER" OR "PIGGYBACK" BREAKERS PERMITTED.
- RUN ONE EMPTY 3/4" EMT CONDUIT TO ACCESSIBLE CEILING SPACE FOR EACH (4) "SPARE" OR "SPACES" INDICATED ON ALL FLUSH MOUNTED PANELS.
- THE ELECTRICAL CONTRACTOR IS TO INSTALL METERING OF A TYPE APPROVED BY THE UTILITY COMPANY AND U.L. LISTED. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL METER CANS AND EQUIPMENT IN AN APPROVED MANNER.
- A/C AIR HANDLER AND CONDENSING UNIT CIRCUIT BREAKERS MUST BE U.L. LISTED AS "HACR" RATED IN ORDER TO USE NON-AUTO DISCONNECTS AT HVAC EQUIPMENT. BRANCH CIRCUIT BREAKERS AT DISTRIBUTION PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE EQUIPMENT NAME PLATE REQUIREMENTS.
- WATER HEATER DISCONNECT TO BE "HARD WIRED" W/ FLEX CONDUIT TO HEATER "TERMINAL BOX". SEE PLANS FOR DETAILS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER PARTIES FOR INSTALLATION OF ALL DEVICES. THIS SHALL INCLUDE (BUT NOT LIMITED TO) THE FOLLOWING:
 - LIGHT FIXTURES AND DEVICES ON INTERIOR AND EXTERIOR OF BUILDING WITH COUNTER TOPS, FURNITURE, WALL FINISHES/CONSTRUCTION, ETC.
 - LIGHT FIXTURES AND DEVICES ON SITE WITH EXISTING/NEW UTILITIES, BUILDINGS/STRUCTURES, PLANTINGS, ETC.
 - ANY INTER-CONNECTIONS BETWEEN ANY OF THE TRADES (HVAC, PLUMBING, FIRE ALARM, FIRE PROTECTION, ARCHITECTURE, ETC.). IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY (WITHIN (2) WORKING DAYS OF DISCOVERY) NOTIFY IN WRITING (Via FAX, EMAIL) OR PHONE CALL AND ASSOCIATED HARD COPY LETTER WITH COPIES TO ALL PARTIES INVOLVED.

LIGHT FIXTURE SCHEDULE

- | | |
|---|--|
| A. 2'x4" RECESSED GRID TROFFER, .125" ACRYLIC PRISMATIC LENS, (2) 28W, 15 LAMPS, WHITE ALUMINUM DOOR, MULTI VOLT ELECTRONIC BALLAST.
LITHONIA #2SP5-G-2-2815-FW-A12125-MVOLT-GE810PS-LP835-(EL) | F. 6" LED DOWNLIGHT, 1,400 LUMEN SYSTEM, CLEAR TRIM, SPECULAR FINISH, WET LOCATION LISTED, 3,500K COLOR TEMPERATURE, 120 VOLT.
GOTHAM #ALED-35/14-6AR-120 |
| B. SIMILAR TO "A" EXCEPT WITH DRYMALL FLANGE.
LITHONIA #2SP5-F-2-2815-FW-A12125-MVOLT-GE810PS-LP835-(EL) | G. RECESSED COMPACT FLOURESCENT DOWNLIGHT, 6" APERTURE, 26W TRT LAMP, VERTICAL LAMP, SPECULAR FINISH, ELECTRONIC BALLAST, MULTI-VOLT, NO LENS.
LITHONIA #LP6FN-26-42TRT-609AZ-MVOLT |
| C. SIMILAR TO "B" EXCEPT 1" WIDE.
LITHONIA #SP5-F-2-2815-FW-A12125-MVOLT-GE810PS-LP835-(EL) | H. 4' FLOURESCENT INDUSTRIAL, (2) 28W 15 LAMPS, STEEL HOUSING, WHITE FINISH, MVOLT ELECTRONIC BALLAST, WIRE GUARD, CHAIN HANG AT 14" AFF.
LITHONIA #2EJ-2-2815-MVOLT-GE810PS-(EL55)-WGEJZ |
| D. 4" LED DOWNLIGHT, 800 LUMEN LED SYSTEM, CLEAR TRIM, 3500K TEMPERATURE, SEMI-SPECULAR FINISH, 120 VOLT.
GOTHAM #ALED-35/06-4AR-120 | J. HID LOW BAY, (1) 400W PULSE START METAL HALIDE LAMP, ALUMINUM REFLECTOR, MULTI-TAP AUTO TRANSFORMER BALLAST, ACRYLIC LENS, "GR" INDICATES FIXTURE TO HAVE A 250W QUARTZ RESTRIKE LAMP SYSTEM, FUSE FIXTURE AT 20 AMPS, TWISTLOCK PLUG AND RECEPTACLE WITH 3" CHORD, SAFETY CHAIN, HIGH AMBIENT, WIRE GUARD.
LITHONIA #TX-400MP-A26-TBI-SOWA-SF-HA-SCK-HC3P20-FWG |
| EM. TROFFERS AND DOWNLIGHTS WITH "EM" ARE TO BE PROVIDED WITH AN EMERGENCY BATTERY SYSTEM WITH SELF DIAGNOSTICS AND TEST SWITCH. WALLPACKS: HIGH WATTAGE, INDUSTRIAL EMERGENCY FIXTURE, (2) 12W HALOGEN LAMPS, METAL LAMP HOLDERS, STEEL HOUSING, WHITE FINISH, NIDA BATTERY.
LITHONIA #ELT50-W-MT-H1212-N | K. HID SHOEDOX, (1) 250 WATT PULSE START METAL HALIDE LAMP, HORIZONTAL LAMP, FLAT GLASS LENS, SEGMENTED TYPE 4 FULL CUT OPTICS, MULTI-TAP BALLAST, DIRECT BURIAL CONCRETE POLE, FUSE AT 20 AMPS, BRONZE FINISH.
LITHONIA #KSF1-250M-R4SC-TB-SOWA-SP04-120-190 |
| EX. THERMO PLASTIC EXIT SIGN, STENCIL FACE, UNIVERSAL MOUNT, RED LED LAMPS, EMERGENCY BATTERY PACK, WHITE PLASTIC HOUSING.
LITHONIA #LOM-S-W-3-R-120/277-EL-N-SO | M. HID WALL PACK, (1) 150 WATT PULSE START METAL HALIDE LAMP, FULL CUTOFF VISOR, MULTI-TAP BALLAST.
LITHONIA #WTR1C-150M-TB-SOWA-FCV |
| EX2. STEEL EXIT SIGN, SIMILAR TO "EX".
LITHONIA #LX-S-W-3-R-120/277-ELN | |

LAMPS SHALL BE PROVIDED FOR EACH FIXTURE, INCLUDING (1) SET OF SPARE LAMPS. TEMPERATURES SHALL BE 3500K FOR FLOURESCENT LAMPS OR AS SPECIFIED ABOVE. NOTE: ALL LAMP TEMPERATURES SHALL BE THE SAME "K" FOR FLOURESCENT LAMPS.

FLOURESCENT LAMPS SHALL BE BY SYLANA, PHILIPS, OR GE. INCANDESCENT LAMPS SHALL BE BY SYLANA, PHILIPS, OR GE. DISCHARGE LAMPS SHALL BE BY VENTURE, SYLANA, PHILIPS, OR GE.

ALL FLOURESCENT BALLASTS SHALL BE PROGRAMMED RAPID START (U.N.O.).

CONTRACTOR TO PROVIDE PRICING BASED UPON THE SPECIFIED LIGHT FIXTURES. ALTERNATE FIXTURES WILL BE CONSIDERED, BUT MUST BE SUBMITTED AT LEAST FIVE DAYS PRIOR TO BID DATE FOR APPROVAL. CUTSHEETS MUST INCLUDE INFORMATION TO BE ABLE TO COMPARE CONSTRUCTION, "GRADE", LAMPING, VOLTAGE, FINISHES, GENERAL APPEARANCE, DIMENSIONS, LENSING, ACCESSORIES, AND PHOTOMETRY TO THE SPECIFIED FIXTURES. ANY FIXTURE NOT MEETING THE DESIGN CRITERIA SHALL BE REJECTED. IF THE CONTRACTOR FAILS TO OBTAIN AN APPROVED FIXTURE PACKAGE PRIOR TO BIDDING, THE CONTRACTOR SHALL PROVIDE THE FIXTURES AS SPECIFIED.

STARTUP AND COMMISSIONING OF ALL LIGHTING SYSTEM CONTROLS (DIMMING & OCCUPANCY SENSORS) SHALL BE PERFORMED BY FACTORY TRAINED PERSONNEL WHO ARE FAMILIAR WITH THE OPERATION OF THE RESPECTIVE SYSTEMS. TRAINING SHALL BE PROVIDED TO OWNER'S STAFF SUCH THAT THE STAFF WILL BE FLUENT IN THE SYSTEMS OPERATION, MAINTENANCE, ALTERATION, ETC.

ELECTRICAL SYMBOL LEGEND

- FLOURESCENT LIGHT FIXTURE (SEE FIXTURE SCHEDULE)
- LIGHT FIXTURE, CEILING MOUNT (SEE FIXTURE SCHEDULE)
- LIGHT FIXTURE, WALL MOUNT (SEE FIXTURE SCHEDULE)
- LIGHT FIXTURE, POLE MOUNT (SEE FIXTURE SCHEDULE)
- EXIT LIGHT FIXTURE (SEE FIXTURE SCHEDULE)
- EMERGENCY LIGHT FIXTURE (SEE FIXTURE SCHEDULE)
- PHOTO CELL LIGHT CONTROL - WATTAGE NOTED
- WALL TOGGLE SWITCH 1-POLE, 3, OR 4 WAY, SPECIFICATION GRADE, 20 AMP. INSTALL @ 48" A.F.F. TO C.L. (U.N.O.).
- LOW VOLTAGE WALL MOUNTED OCCUPANCY SENSOR. REQUIRES USE OF LEVITON "PSP" OWNER MODULE. INSTALL AT 48" A.F.F. TO C.L. (U.N.O.). (X) DENOTES TECHNOLOGY: R - 3000 #f INFR-RED - SENSORSWITCH #WV-16 D - 1200 #f 1/R & MICROPHONIC - SENSORSWITCH #WV-PDT-16 RL - HALLWAY INFR-RED - SENSORSWITCH #HW13
- 20 AMP POWER MODULE FOR USE WITH LOW VOLTAGE OCCUPANCY SENSORS. SENSORSWITCH #PP20
- WALL BOX MOUNT MOTION DETECTOR CONTROL, 20A, 120/277 VAC (AS REQUIRED). (X) DENOTES TECHNOLOGY: INSTALL AT 48" A.F.F. TO C.L. (U.N.O.). R - INFR-RED SENSORSWITCH #WSD D - 1/R & MICROPHONIC - SENSORSWITCH #WSD-PDT
- LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR. REQUIRES USE OF SENSORSWITCH PP20 SERIES POWER PACK. (X) DENOTES TECHNOLOGY: R - 450 #f INFR-RED - SENSORSWITCH #DM-9 RH - 2400 #f INFR-RED - SENSORSWITCH #DM-10 D - 450 #f 1/R & MICROPHONIC - SENSORSWITCH #DM-PDT-9 D10 - 2400 #f 1/R & MICROPHONIC - SENSORSWITCH #DM-PDT-10 RH - HIGHBAY ISLE INFR-RED - SENSORSWITCH #HM50 RH - HIGHBAY INFR-RED - SENSORSWITCH #HM6
- WEATHERPROOF MOTION SENSOR. WATTSTOPPER #W-200-120-10W
- RECEPTACLE, WALL DUPLEX, 120V, SPECIFICATION GRADE, 20 AMP. INSTALL AT 18" A.F.F. TO C.L. (U.N.O.).
- RECEPTACLE, WALL DOUBLE DUPLEX, 120V, SPECIFICATION SPECIFICATION GRADE, 20 AMP. INSTALL AT 18" A.F.F. TO C.L. (U.N.O.).
- WEATHERPROOF WEATHER RESISTANT GPIC RECEPTACLE, WALL DUPLEX, 120 VOLT, SPECIFICATION GRADE, 20 AMP, INSTALL HORIZONTALLY WITH APPROVED HINGED COVER.
- RECEPTACLE, WALL SINGLE, SPECIFICATION GRADE, 20 AMP. INSTALL AT 18" A.F.F. TO C.L. (U.N.O.).
- TELEPHONE/DATA OUTLET, WALL, PROVIDE A MINIMUM OF (4) CABLE "DROPS" AS SPECIFIED IN SPECIFIC NOTE #10.
- TELEVISION OUTLET, WALL. SEE SPECIFIC NOTE #18.
- MOTOR STARTER, CIRCUIT BREAKER COMB. TYPE, SIZE AS REQUIRED OR SHOWN, (3) OVERLOADS WITH H-O-A SWITCH, 120 VOLT COIL (VERIFY WITH CONTROLS IF ANY).
- MOTOR DISCONNECT SWITCH, DEAD FRONT MOLDED CASE SWITCH (IE 60 AMPS OR LESS) NON-PROTECTED, NEMA 1 NEMA 3R AS REQUIRED.
- POWER PANEL (FLUSH/SURFACE) SEE SCHEDULES
- DISCONNECT SWITCH, LESS THAN 60 A. USE OF SNAP SWITCHES OR NON-PROTECTED MANUAL MOTOR STARTER DEVICES IS ACCEPTABLE IF A LOCK-OFF PROVISION IS PROVIDED.
- ELECTRICAL JUNCTION BOX, SIZE AS REQUIRED IF NOT SHOWN.
 - DEVICE COVER PLATES TO BE PLASTIC OF SAME MFR AS DEVICE.
 - DEVICE COVER PLATES TO BE #302 STAINLESS STEEL (AS NOTED ON PLANS)
- MOTOR (H.P. NOTED IF OVER 1 H.P.; OTHERWISE, FRACTIONAL)
- EXHAUST FAN. IF NOT ON FIXTURE SCHEDULE, FAN PROVIDED AND INSTALLED BY MECHANICAL, CONNECTED BY ELECTRICAL
- PANEL AND CIRCUIT NUMBER AND DESIGNATION.
- LIGHT FIXTURE DESIGNATION LEGEND:
 - A-1 PANEL/CIRCUIT DESIGNATION
 - a/ob SWITCHING CONTROL DESIGNATION
 - c FIXTURE DESIGNATION (SEE SCHEDULE)
 - EM/EX FIXTURE DESIGNATION (SEE SCHEDULE)
 - NL INDICATES 24 HOUR OPERATION SWITCHED AT PANEL. PROVIDE BREAKER RATED FOR SWITCHING DUTY
- SPECIFIC NOTE RELATIVE TO SINGLE CALL OUT, SEE SPECIFIC NOTE LEGEND.
- CONDUIT RUN (CONCEALED)
- CONDUIT RUN (IN SLAB OR GRADE)
- TELEPHONE CONDUIT AND PULL WIRE
- TELEVISION AND WIRING OR PULL WIRE AS NOTED
- LOW VOLTAGE WIRING

LIGHTNING PROTECTION

CONTRACTOR TO PROVIDE AND INSTALL AN UL MASTER LABEL LIGHTNING PROTECTION SYSTEM. THIS SHALL USE COPPER AIR TERMINALS, COPPER CONDUCTORS, AND COPPER CLAD GROUND RODS.

TELE-COMMUNICATIONS SYSTEMS

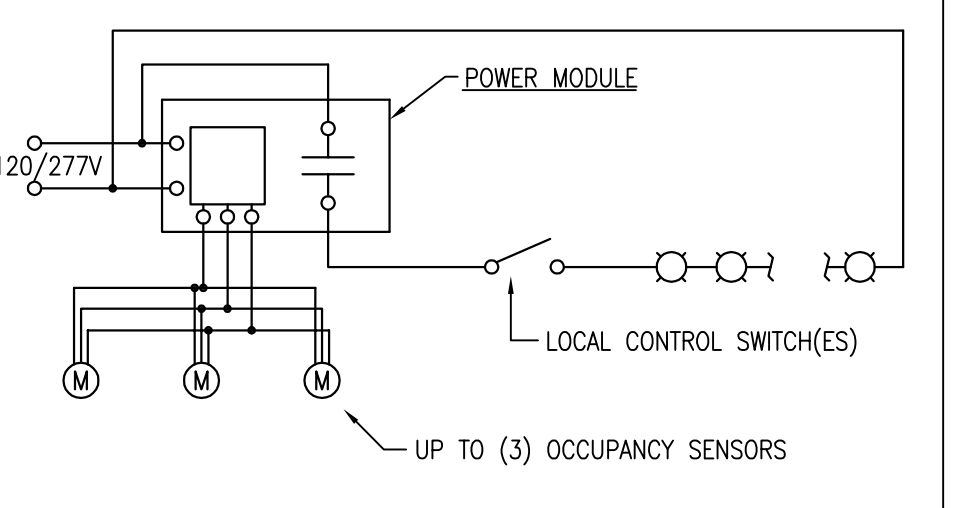
CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE BOXES, CONDUIT, CABLES, JACKS, AND TERMINATION RACK OF THE TELE-COMM SYSTEM. ALL CABLEING AND TERMINAL DEVICE INSTALLATION IS TO BE PERFORMED BY A QUALIFIED TELE-COMMUNICATIONS COMPANY.

CONTRACTOR TO COORDINATE WITH OWNER AS TO EXISTING (TO BE RELOCATED) EQUIPMENT REQUIREMENTS PRIOR TO ANY BID OR INSTALLATION.

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SPECIFIC NOTES

- VERIFY ROUGH-IN LOCATIONS, TYPE OF CONNECTION, AND AMPACITY REQUIRED FROM APPLICABLE EQUIPMENT DRAWINGS PRIOR TO INSTALLING ANY CONDUIT, CONDUCTORS, OR BOXES. THIS EQUIPMENT IS FURNISHED AND PHYSICALLY INSTALLED BY "OTHERS". ALL ELECTRICAL CONNECTIONS EXTERNAL TO THE EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR. WIRE, CONDUIT, LUGS, RECEPTABLES, PIG TAILS, DISCONNECTS, AND ECT., AS MAY BE REQUIRED SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. *NOTE: INCLUDE WORSE CONDITION IN PRICING.
- PROVIDE A SERVICE GROUND ACCORDING TO N.E.C. ARTICLE 250.52 OF THE N.E.C. MINIMUM INSTALLATION TO INCLUDE: BUILDING FOOTER/ FOUNDATION REINFORCING STEEL (20' OF #4 MIN. SIZE) TURNED UP OR OTHERWISE EXPOSED AT THE SERVICE WITH APPROVED CONNECTOR ATTACHMENT BONDING A #4 CU GROUNDING CONDUCTOR TO THE STEEL; (2) DRYEN ROD GROUND (MIN. 5/8" X 8' DEEP) WITH #6 COPPER GROUNDING CONDUCTOR, IF AVAILABLE ON PREMISES, ALSO, BOND: METAL COLD WATER PIPING AND METAL BUILDING FRAME WITH JUMPERS SIZED FROM 250.66, EQUIPMENT GROUNDING PER TABLE 250.122.
- WALL COMBINATION TELEPHONE/DATA OUTLET. INSTALL 2-GANG BOX WITH 1-GANG RING. INSTALL AT 18" A.F.F. TO C.L. (U.N.O.).
 - CAT-5e CABLE (4 PAIR TWISTED #24 AWG)
 - BLANK PLATE - DEVICES TO BE PROVIDED BY EQUIPMENT VENDOR
 - (4) MODULAR (RJ-45) DEVICES IN COVER PLATE
 - MODULAR (RJ-14) DEVICE IN COVER PLATE
 - (2) 3/4" EMT TO ACCESSIBLE CEILING SPACE
 - 3/4" EMT TO TELEPHONE TERMINAL BOARD
 - HOMERUN EACH OUTLET TO SERVICE TERMINAL BOARD/J-BOX
 - CABLE RUN "LOOSE" IN CEILING
 VERIFY EXACT QUANTITY OF CABLE "DROPS" WITH OWNER "IT" REP IF AVAILABLE.
- 20 AMP GROUND FAULT INTERRUPTER TYPE RECEPTACLE.
- HVAC MAINTENANCE RECEPTACLE (GFCI), LOCATE AS INDICATED ON PLANS (OR) WITHIN 25' (MAX) FROM CONDENSING UNIT IF NOT INDICATED.
- WALL TELEVISION OUTLET, INSTALL 2-GANG BOX WITH TYPE "F" MALE JACK.
 - 3/4" EMT CONDUIT TO TELEVISION TERMINAL BOARD
 - 3/4" EMT TO ACCESSIBLE CEILING SPACE
 - RG-6 COAXIAL CABLE HOMERUN EACH OUTLET TO SERVICE TERMINAL BOARD/J-BOX. DISTRIBUTION AND CONNECTION BY OTHERS, I.D. EACH RUN.
 - RUN CABLE "LOOSE" IN CEILING
 - DEVE PLATE TO MATCH POWER AND LIGHTING DEVICE PLATES, INSTALL AT 18" A.F.F. TO C.L. (U.N.O.).
- SWITCHED JUNCTION BOX IN CEILING FOR CEILING FAN OR FIXTURE; ANCHOR TO STRUCTURE TO SUPPORT 75 LBS. PROVIDE BLANK COVER. INSTALL ALL WIRING INCLUDING SWITCH AND POWER LEGS. NOTE: BOX MUST BE IDENTIFIED FOR FAN SUPPORT USE.



THIS SCHEMATIC IS BASED UPON SPECIFIC DEVICES. SUBSTITUTION OF EQUIPMENT MAY REQUIRE MODIFICATION. HOWEVER, THIS "SYSTEM" IS INTENDED TO PROVIDE AUTOMATIC SHUT OFF OF ALL LIGHT FIXTURES DURING PERIODS OF UNOCCUPANCY. ANY SUBSTITUTED SYSTEMS WILL BE REQUIRED TO DUPLICATE THIS FUNCTION. NO EMERGENCY FIXTURES, 24 HOUR LIGHTS, TIME CLOCKS, CONTRACTORS OR EXIT SIGNAGE IS TO BE CONNECTED THROUGH THIS SYSTEM. SEE MANUFACTURER'S WIRING DETAILS FOR FURTHER INSTRUCTIONS.

LIGHT CONTROL DETAIL

N.T.S.

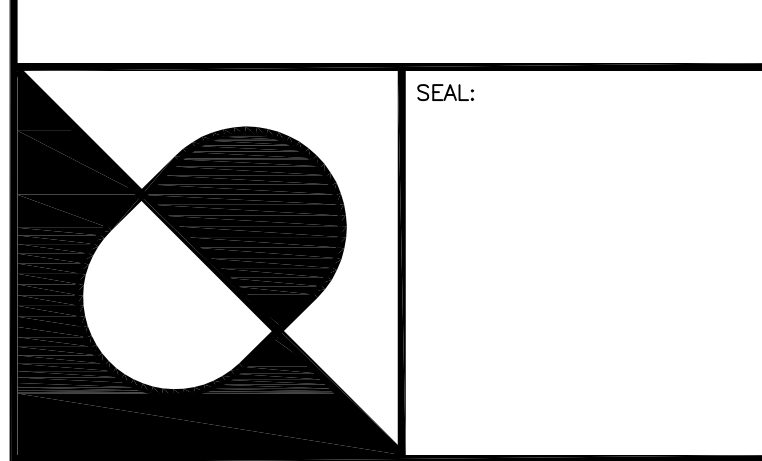
ABBREVIATIONS LEGEND

A/C	AIR CONDITIONING	MC	METAL CLAD CABLE
AFF/G	ABOVE FINISH FLOOR/GRADE	MS	MOTION SWITCH
AHU	AIR HANDLING UNIT	N1	NEMA 1 (INDOOR ENCLOSURE)
AC	AMPS INTERRUPTING CAPACITY	N3R	NEMA 3R (RAIN TIGHT ENCLOSURE)
B	BOND	N/NEUT	NEUTRAL
CB	CIRCUIT BREAKER	NP	NON-PROTECTED
CU	COPPER	OC	OVER COUNTER
CU	CONDENSER UNIT	O/H	OVER HEAD
DISC	DISCONNECT	P	POWER
EM	EXHAUST FAN	PC	PHOTO CELL
EM	EMERGENCY	RECEPT	RECEPTACLE/S
EMT	ELECTRICAL METALLIC TUBING (THIN WALL)	RS	RIGID STEEL CONDUIT
EX	EXIT	S	SOUND
FPL	FLORIDA POWER & LIGHT	S/N	SOLID NEUTRAL
G	GROUND	SPD	SURGE PROTECTION DEVICE
GCO	GROUNDLED CONVENIENCE OUTLET	TC	TIME CLOCK
GFI	GROUND FAULT INTERRUPTER	T/TEL	TELEPHONE
HGT	HEIGHT	TV	TELEVISION
HTR	HEATER	UC	UNDER COUNTER
JB	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
LC	LIGHTING CONTACTOR	UG	UNDERGROUND
LT/S	LIGHT/S	UL	UNDERWRITERS LABORATORIES
LV	LOW VOLTAGE	WP	WEATHER PROOF
		WR	WEATHER RESISTANT

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FLORIDA REGISTRATION AA 0002502

NOTES:

PROJECT:


**City of Naples
Recycle Transfer Facility**

Enterprise Avenue
Naples, Florida

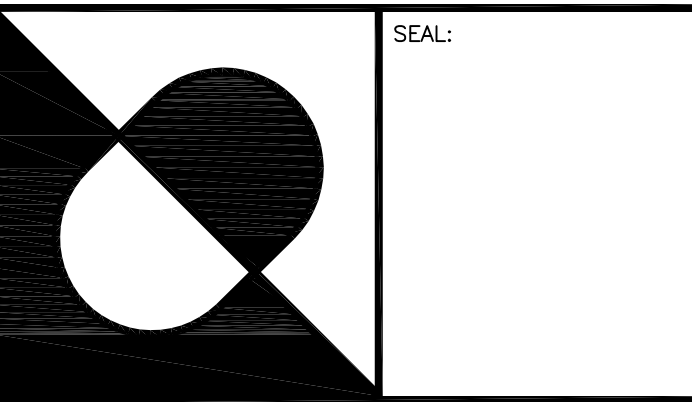
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07 - 25 - 12			
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SHEET TITLE: Electrical Notes			
E-001			

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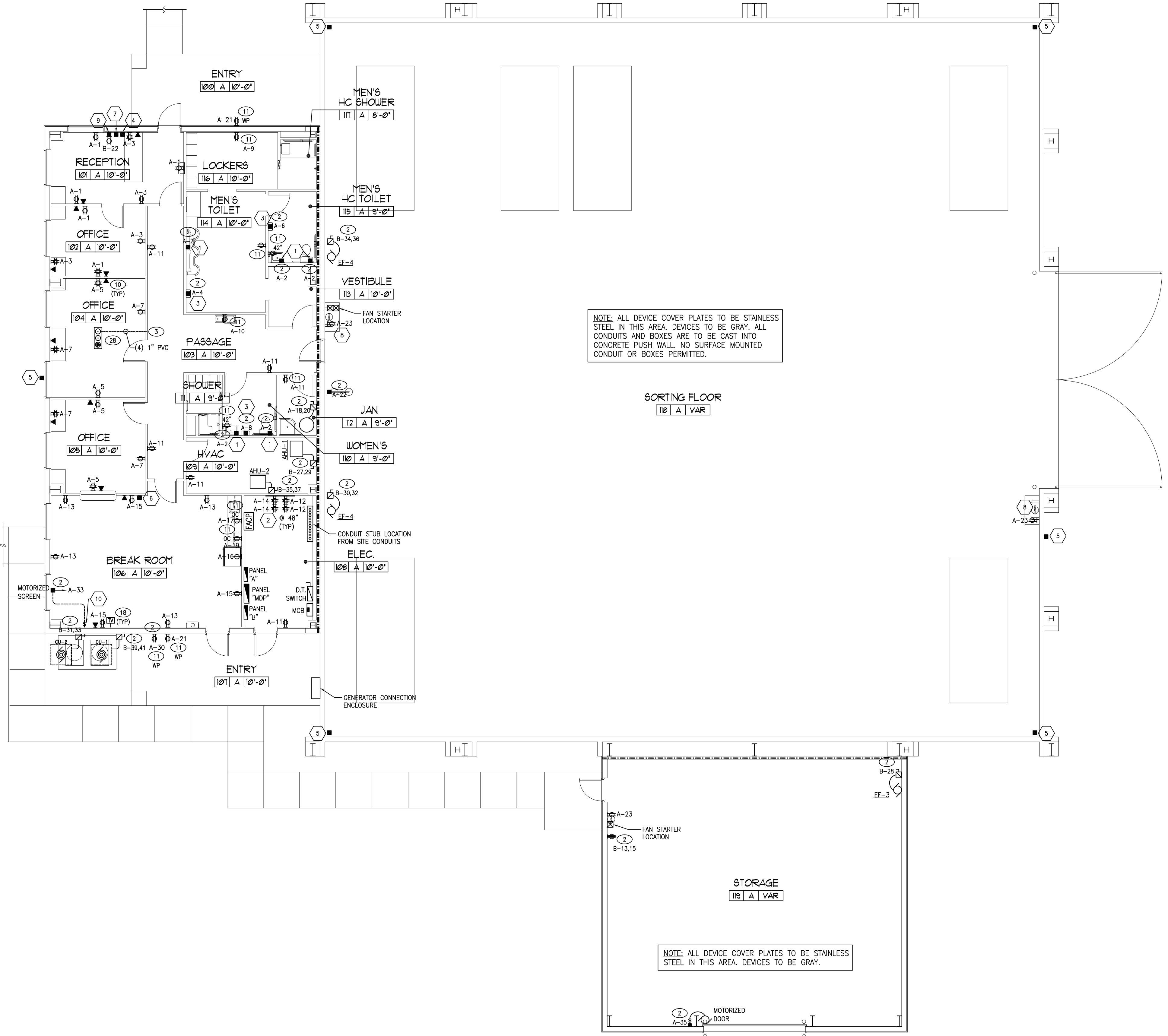
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SHEET TITLE:
Electrical Power Plan and Notes

E-101

KEY NOTES

- JBOX AND POWER FOR SENSOR OPERATED PLUMBING FIXTURE. COORDINATE ALL DETAILS.
- 4"x8"x3/4" PLYWOOD FOR TELE/CATV TERMINAL BOARD. PAINT WHITE. MOUNT HIGH ON WALL. ROUTE (1) 2" PVC TO SITE TELE DEMARK LOCATION, (1) 2" PVC TO SITE CATV DEMARK LOCATION FOR SERVICE CONNECTIONS, AND (1) 2" PVC TO PROPERTY LINE FOR SPARE.
- JBOX FOR HAND DRYER. COORDINATE ALL DETAILS.
- PROVIDE 2-GANG BOX FOR FUTURE CAMERA VIDEO. ROUTE (2) 3/4" EMT TO CEILING SPACE.
- JBOX FOR FUTURE CAMERA. ROUTE (2) 3/4" EMT TO CEILING SPACE ABOVE ELECTRICAL ROOM #108. MOUNT AT CEILING.
- 2-GANG BOX FOR NETWORK TIME CLOCK. ROUTE (2) 3/4" EMT TO CEILING SPACE.
- 2-GANG BOX FOR SCALE. ROUTE (1) 1" PVC TO SCALE AND (1) 1" EMT TO CEILING SPACE.
- MOUNT AT 18" AFF, CENTERED BETWEEN FIRE EXTINGUISHER PROTECTION PIPES. COORDINATE WITH ARCHITECT.
- PROVIDE 2-GANG BOX WITH 1" EMT TO ELECTRICAL EQUIPMENT ROOM FOR EXTENSION OF SCALE SENSOR WIRING. COORDINATE ALL DETAILS WITH EQUIPMENT AND OWNER.
- 3-POSITION MOMENTARY SWITCH FOR SCREEN RAISE/LOWER.



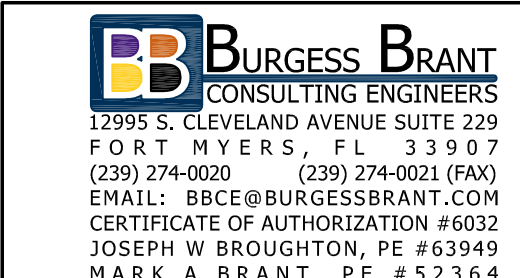
NOTE: ALL DEVICE COVER PLATES TO BE STAINLESS STEEL IN THIS AREA. DEVICES TO BE GRAY. ALL CONDUITS AND BOXES ARE TO BE CAST INTO CONCRETE PUSH WALL. NO SURFACE MOUNTED CONDUIT OR BOXES PERMITTED.

NOTE: ALL DEVICE COVER PLATES TO BE STAINLESS STEEL IN THIS AREA. DEVICES TO BE GRAY.

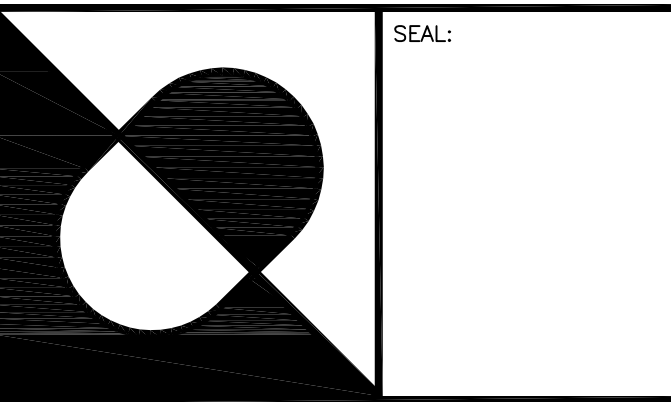
1 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

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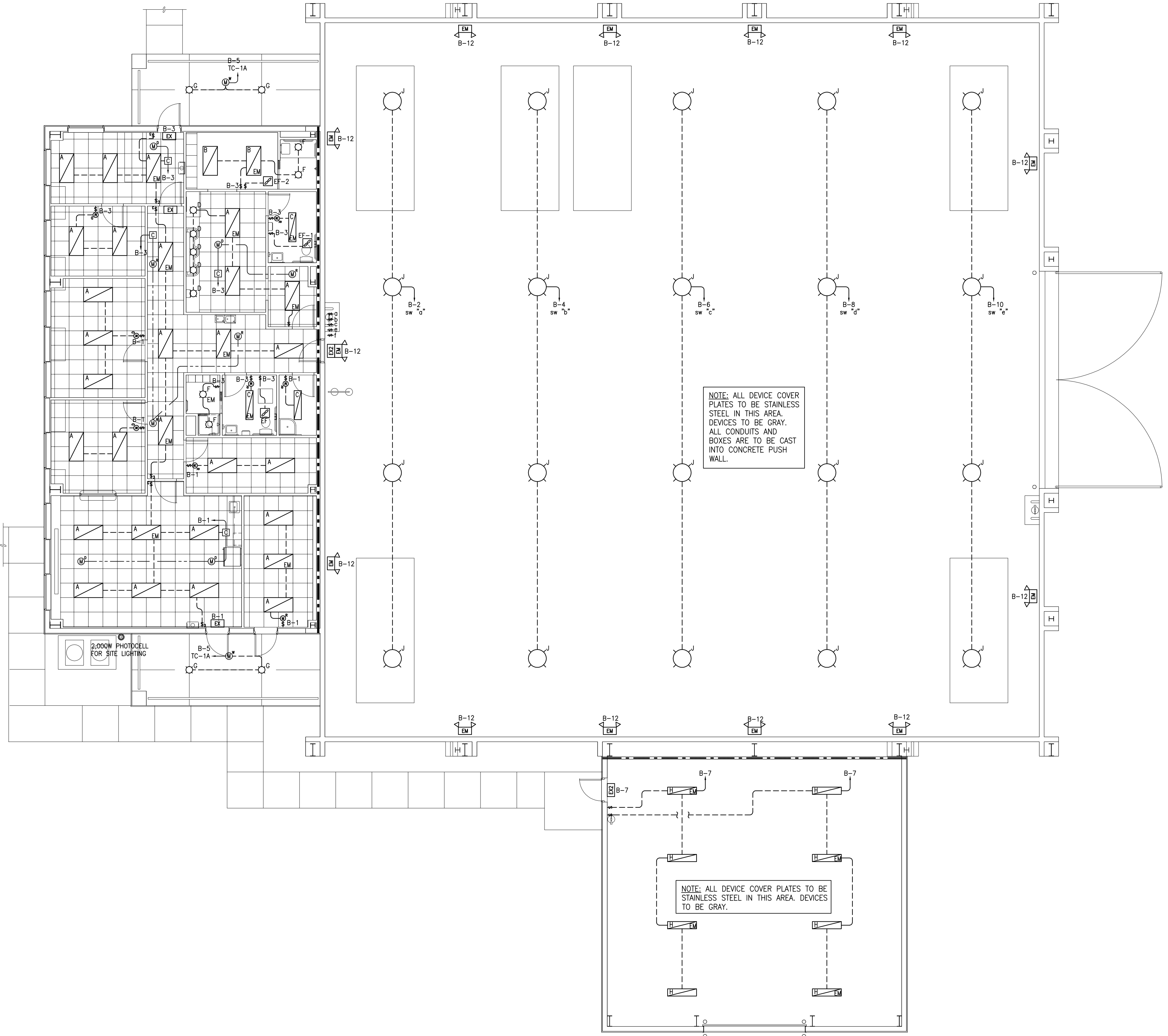
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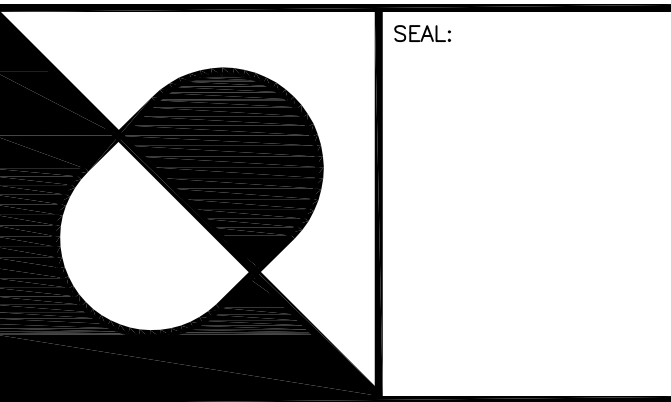
SHEET TITLE:
Electrical Lighting Plan



1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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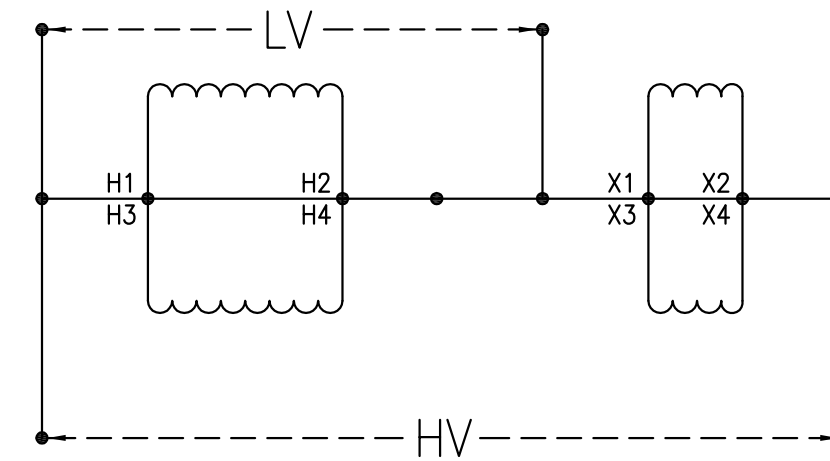
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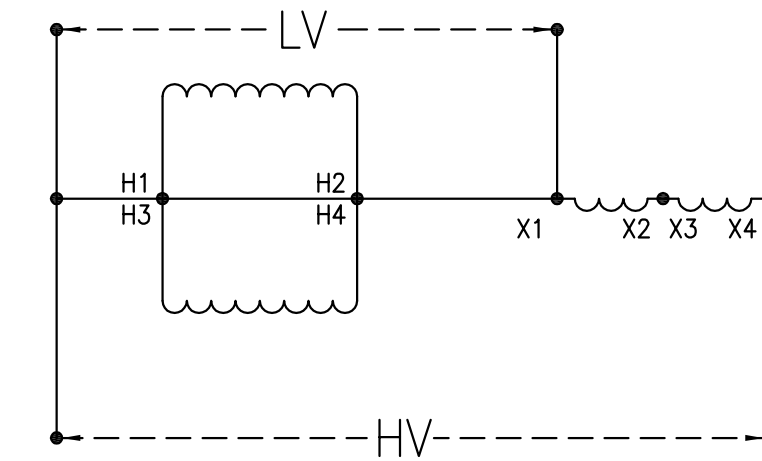
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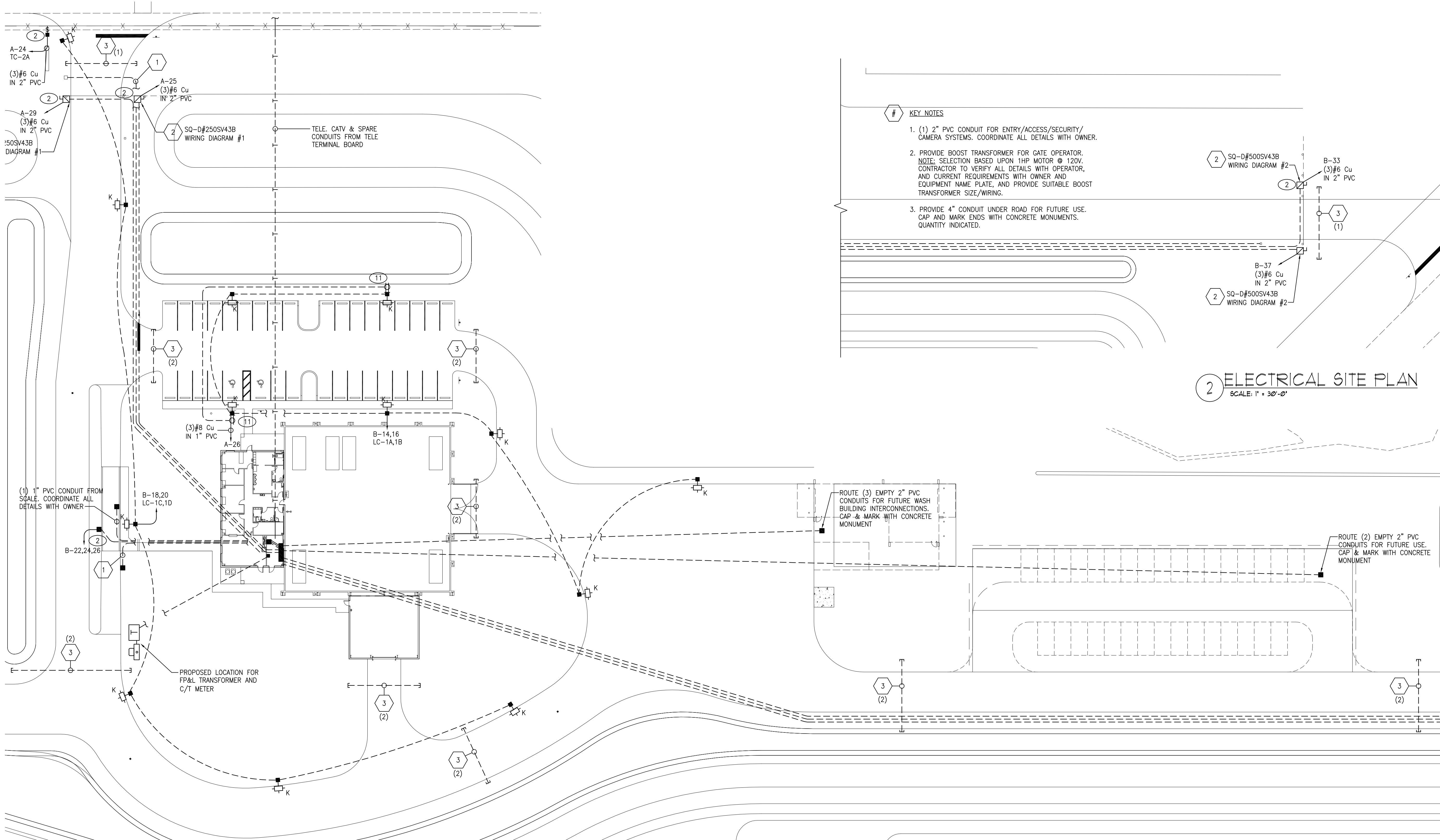
NOTES:



3 WIRING DIAGRAM #1
 SCALE: NONE



4 WIRING DIAGRAM #2
 SCALE: NONE



- # KEY NOTES
- (1) 2" PVC CONDUIT FOR ENTRY/ACCESS/SECURITY/CAMERA SYSTEMS. COORDINATE ALL DETAILS WITH OWNER.
 - PROVIDE BOOST TRANSFORMER FOR GATE OPERATOR. NOTE: SELECTION BASED UPON 1HP MOTOR @ 120V. CONTRACTOR TO VERIFY ALL DETAILS WITH OPERATOR, AND CURRENT REQUIREMENTS WITH OWNER AND EQUIPMENT NAME PLATE, AND PROVIDE SUITABLE BOOST TRANSFORMER SIZE/WIRING.
 - PROVIDE 4" CONDUIT UNDER ROAD FOR FUTURE USE. CAP AND MARK ENDS WITH CONCRETE MONUMENTS. QUANTITY INDICATED.

2 ELECTRICAL SITE PLAN
 SCALE: 1" = 30'-0"

1 ELECTRICAL SITE PLAN
 SCALE: 1" = 30'-0"

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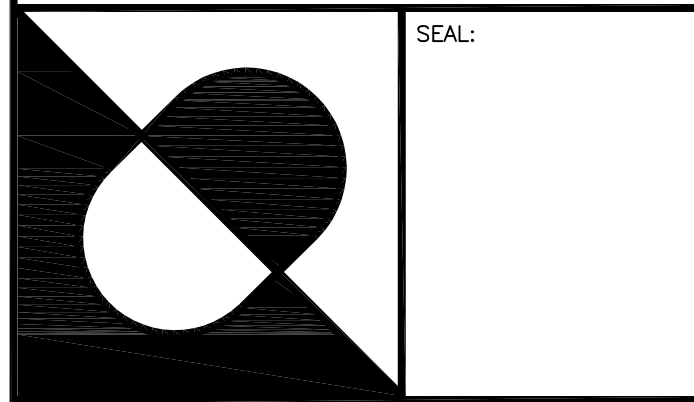
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Electrical Site Plan

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SHEET TITLE:
**Fire Alarm Notes,
Details & Riser**

FA-001

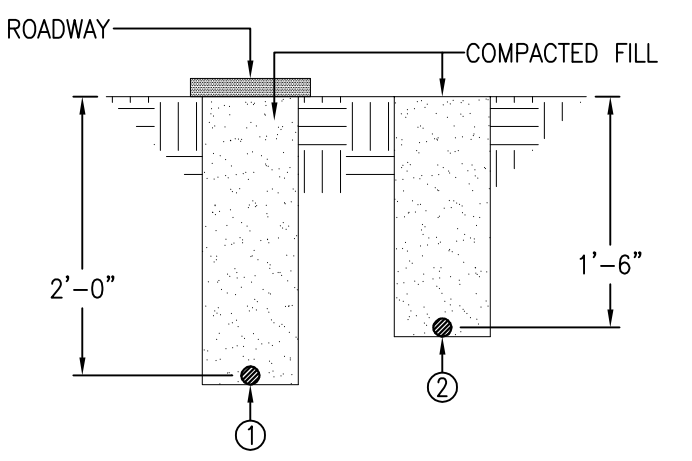
FIRE ALARM SYMBOL LEGEND

- FACP** FIRE ALARM PANEL, BATTERY BACK UP, SUPERVISED WIRING SEPARATE ANNUNCIATION OF EACH AND EVERY ALARM DEVICE, ANNUNCIATION ONLY OF TAMPER SWITCH/S.
- FAA** ALARM ANNUNCIATOR PANEL ABLE TO ANNUNCIATE THE STATUS OF EACH ZONE (OR DEVICE FOR ADDRESSABLE SYSTEMS), ANNUNCIATOR IS TO HAVE NO CONTROL FUNCTIONS.
- P** MANUAL PULL STATION, DOUBLE ACTION, INSTALL AT 4'-0" TO TOP.
- X** CEILING MOUNTED SIGNAL WITH FLASHING STROBE LIGHT, 24 VOLT DC OPERATION, PROVIDE INTERIOR/EXTERIOR WEATHER PROOF DEVICES AS APPLICABLE. CANDELLA NOTED, AUDIO OUTPUT TO BE 80 DB MINIMUM.
- X** WALL MOUNTED SIGNAL WITH FLASHING STROBE LIGHT @ 84" AFF, 24 VOLT DC OPERATION, PROVIDE INTERIOR/EXTERIOR WEATHER PROOF DEVICES AS APPLICABLE. CANDELLA NOTED, AUDIO OUTPUT TO BE 80 DB MINIMUM.
- X** CEILING MOUNTED FLASHING STROBE LIGHT, MUST CONFORM TO INTENSITY, SYNCHRONIZING AND SPACING TO FL HANDICAP CODE REQUIREMENTS FOR INSTALLED AREAS. CANDELLA NOTED.
- X** WALL MOUNTED FLASHING STROBE LIGHT, MUST CONFORM TO INTENSITY, SYNCHRONIZING AND SPACING TO FL HANDICAP CODE REQUIREMENTS FOR INSTALLED AREAS. CANDELLA NOTED.
- X** SMOKE DETECTOR AT CEILING, TYPE INDICATED BY SUBSCRIPT:
SUBSCRIPT TYPE
P PHOTOELECTRIC PRODUCTS OF COMBUSTION DETECTOR
I IONIZATION PRODUCTS OF COMBUSTION DETECTOR
BT BEAM TRANSMITTER
BR BEAM RECEIVER
ASD AIR SAMPLING
- i** DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBES, LOCATE ACCORDING TO EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. EACH DETECTOR TO HAVE REMOTE TEST AND INDICATOR PANEL LOCATED ON WALL AT 72" A.F.F. (ESTERO FIRE DEPT.) OR CEILING. INSTALL IN SUPPLY DUCTS OF AHUS IF OVER 2,000 CFM SPACE TOTAL.
- A** DUCT MOUNTED SMOKE DETECTOR STATUS ANNUNCIATOR WITH KEY TEST. TO BE MOUNTED AT 4' AFF (72" ESTERO FIRE DEPT.) OR IN CEILING.
- W** WATER FLOW SWITCH IN FIRE MAIN - PROVIDED & INSTALLED BY FIRE PROTECTION CONTRACTOR, CONNECTED BY FIRE ALARM CONTRACTOR.
- W** TAMPER SWITCH @ CONTROL VALVE, PROVIDED BY AND INSTALLED BY FIRE PROTECTION CONTRACTOR. NOTE: IF MORE THAN ONE SWITCH IS INSTALLED, AT VARIOUS LOCATIONS, EACH DEVICE IS TO REPORT SUPERVISORY "NORMAL" OR "OFF-NORMAL" POSITIONS.
- W** LOCK BOX WITH BUILDING ACCESS KEY FOR FIRE DEPARTMENT USE. LOCATE AT DIRECTION OF FIRE MARSHALL.

- FIRE ALARM SYSTEM IS: REQUIRED VERIFY EXISTING
- VOICE ALARM FOR PLACE OF ASSEMBLY - CLASS "A" (INCLUDING PRERECORDED MESSAGE & P.A. SYSTEM)
 - VOICE ALARM FOR HIGH RISE CONSTRUCTION (INCLUDING PRERECORDED MESSAGE & P.A. SYSTEM)
 - HORN SIGNAL TYPE
 - ADDRESSABLE SYSTEM
 - ANNUNCIATION OF ALL INITIATING DEVICES
 - HARDWIRED SYSTEM
 - REMOTE SUPERVISING STATION
 - POWER LIMITED
 - CENTRAL STATION SERVICE
 - EXTENSION OF EXISTING SYSTEM
 - TO MATCH EXISTING
- WIRING CLASS: CLASS "A" (SORTING & STORAGE) CLASS "B" (ALL OTHERS)
- CIRCUIT STYLE: -SLC- 3 4 5 6 7
 -IDC- A B C D E
 -NAC- W X Y Z

ABBREVIATIONS LEGEND

A/C	AIR CONDITIONING	NAC	NOTIFICATION APPLANCE CIRCUIT
AC	ALTERNATING CURRENT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ADA	AMERICAN DISABILITY ACT	N/NEUT	NEUTRAL
AFF/G	ABOVE FINISH FLOOR/GRADE	NPLFA	NON-POWER LIMITED FIRE ALARM
AHU	AIR HANDLING UNIT	O/H	OVER HEAD
CB	CIRCUIT BREAKER	P	POWER
Cu	COPPER	PW	POST INDICATOR VALVE
DC	DIRECT CURRENT	PLFA	POWER LIMITED FIRE ALARM
DDCV	DOUBLE DETECTOR CHECK VALVE	RS	RIGID STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING (THIN WALL)	S/LC	SIGNALING LINE CIRCUIT
FACP	FIRE ALARM CONTROL PANEL	T/TELE	TELEPHONE
FDC	FIRE DEPARTMENT CONNECTION	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FSR	FIRE SPRINKLER RISER	UNO	UNLESS NOTED OTHERWISE
HGT	HEIGHT	UG	UNDERGROUND
IDC	INITIATING DEVICE CIRCUIT	UL	UNDERWRITERS LABORATORIES
JB	JUNCTION BOX	WP	WEATHER PROOF
LV	LOW VOLTAGE		

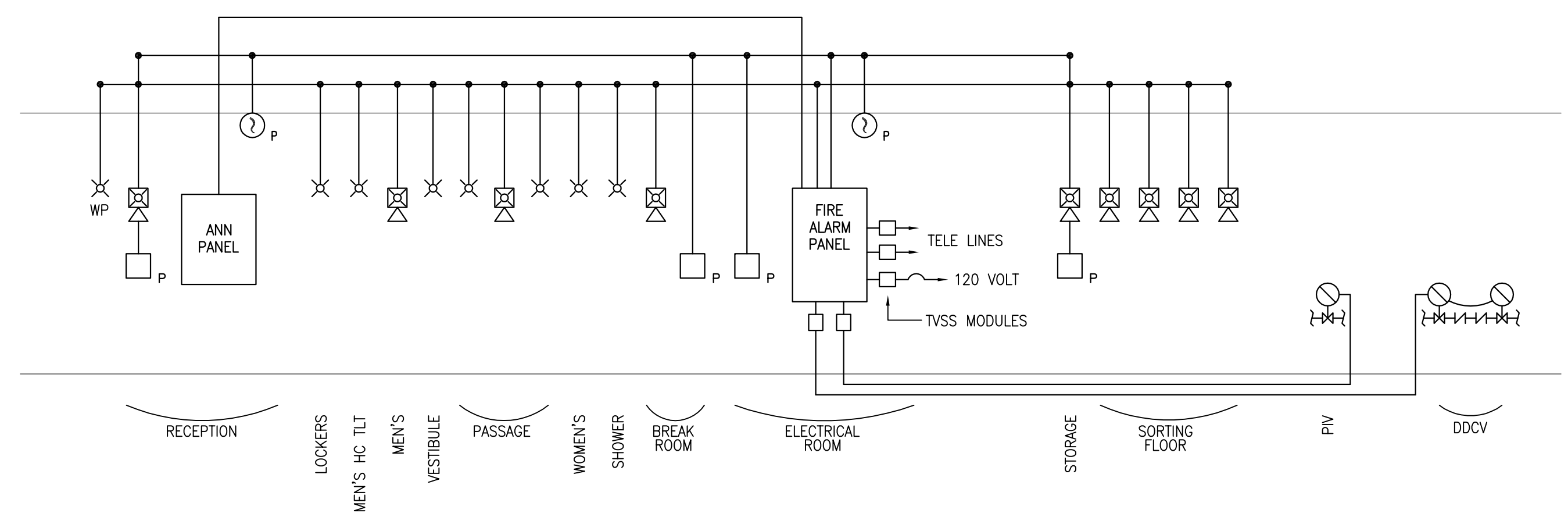


- ① ALARM WIRING TO BE "WET" LISTED AND IN 3/4" SCH 40 PVC 2' BELOW FINISH GRADE UNDER STREETS, ROADS, HIGHWAYS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.
 - ② ALARM WIRING TO BE "WET" LISTED AND IN 3/4" SCH 40 PVC 1'-6" BELOW FINISH GRADE.
- NOTE: SECTION 300.5 OF NFPA 70 SHALL TAKE PRECEDANCE OVER ANY INFORMATION IN THIS DETAIL.

FIRE ALARM CONDUCTOR BURIAL DETAIL
N.T.S.

GENERAL NOTES & REQUIREMENTS

- THE SYSTEM SHALL COMPLY WITH NFPA 72 (2002 ED.), NFPA 70 (ARTICLE 760) (2008 ED.), NFPA 101 AND FLORIDA FIRE PREVENTION CODE (2007 ED.), AND STATE OF FLORIDA ADA CODES.
- WIRING:**
 - ALL WIRING TO BE COPPER. CONTRACTOR TO USE WIRING WITH THHN OR THWN INSULATION AS REQUIRED BY THE INSTALLATION TYPE AND LOCATION.
 - WIRING TO BE SIZED, COLOR CODED AND IN QUANTITIES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER, AND IN ACCORDANCE WITH TABLE 760-61 FOR PLFA SYSTEMS OR IN ACCORDANCE WITH TABLE 760-27 FOR NPLFA SYSTEMS (BOTH OF NFPA 70 AS LISTED ABOVE).
 - SIGNAL WIRING SHALL BE AWG #12 OR #14.
 - ALARM INITIATING DEVICE WIRING SHALL BE AWG #18 MINIMUM.
 - APPROVED MULTI-CONDUCTOR CABLES ARE ACCEPTABLE AS SUBSTITUTES.
 - CABLES OR CONDUCTORS NOT INSTALLED IN CONDUIT SHALL BE SLEEVED FROM THE DEVICE TO AN ACCESSIBLE AREA.
 - PLENUM RATED CABLE SHALL BE USED WHEN RUN IS IN ENVIRONMENTAL AIR SPACES.
 - ALARM VISUAL DEVICE WIRING SHALL BE #14, AUDIBLE DEVICE SHALL BE #18, POWER WIRING SHALL BE #14, OTHER WIRING SHALL BE #18.
 - ALL WIRING TO BE SUPERVISED. THIS SHALL INCLUDE THE TELEPHONE LINES FROM THE DACT TO THE CENTRAL STATION OR REMOTE SERVICE.
- FIRE ALARM WIRING IS TO IDENTIFIED AS SUCH AND THIS IDENTIFICATION SHALL BE DIFFERENT FROM OTHER ELECTRICAL SYSTEM WIRING. AT A MINIMUM:
 - CONDUIT CONTAINING FIRE ALARM WIRING SHALL BE PAINTED RED AT 5' INTERVALS.
 - ALL JUNCTION BOXES CONTAINING FIRE ALARM WIRING SHALL BE PAINTED RED.
 - ALL DEVICE BACK BOXES SHALL BE PAINTED RED.
 - ALL DEVICE WIRING NOT IN CONDUIT SHALL HAVE RED SHEATHING.
- EACH ALARM DEVICE TO BE SEPARATELY ANNUNCIATED AT MAIN ALARM PANEL (FACP), AND AUXILIARY PANEL (IF REQUIRED ON THIS PROJECT).
- OPERATION SCHEDULE:** REQUIRED VERIFY EXISTING UPON ACTIVATION OF THE FIRE ALARM SYSTEM BY ANY ALARM DEVICE THE FOLLOWING SHALL TAKE PLACE: (EXCEPT DUCT SMOKE DETECTORS)
 - CAUSE DEVICE ALARMED TO BE ANNUNCIATED AT PANEL AND REMOTE IF INSTALLED.
 - NOTIFICATION SHALL BE PROVIDED AUTOMATICALLY BY AN INTERNAL AUDIBLE ALARM SYSTEM IN ACCORDANCE WITH NFPA-101.
 - NOTIFY U.L. CERTIFIED CENTRAL STATION VIA (2) TELEPHONE LINES AND DIALING EQUIPMENT OF SYSTEM ALARM AND/OR ALARM SYSTEM "TROUBLE" AND/OR "SUPERVISORY" SIGNAL.
 - NOTIFY A REMOTE SUPERVISION SERVICE VIA (2) TELEPHONE LINES AND DIALING EQUIPMENT OF SYSTEM ALARM AND/OR ALARM SYSTEM "TROUBLE" AND/OR "SUPERVISORY" SIGNAL.
 - DISTINCTLY NOTIFY MONITORING COMPANY OF WATER FLOW CONDITIONS.
 - SOUND GENERAL ALARM.
 - IF INITIATING DEVICE IS PART OF THE ELEVATOR RECALL SYSTEM, ELEVATOR RECALL IS TO BE INITIATED.
 - SUPERVISORY (TROUBLE) SIGNALS WILL BE ANNUNCIATED AND TRANSMITTED TO MONITORING SERVICE VIA DACT.
 - ALARM AND AUDIBLE ALARM SIGNALS MAY BE SILENCED AT PANEL, VISUAL SIGNALS WILL REMAIN ON.
 - DUCT TYPE SMOKE DETECTORS WILL CAUSE SUPERVISORY SIGNALS IN ADDITION TO SHUTTING DOWN AFFECTED AHU EQUIPMENT.
 - SHUT DOWN KITCHEN HOOD SYSTEM. NOTE: HOOD SYSTEM MUST BE CONNECTED SUCH THAT IF SHUT DOWN BY A FIRE ALARM CONDITION, ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM ITSELF WILL RESTART THE EXHAUST FANS.
 - CLOSE FIRE SHUTTERS/DOORS.
 - SHUNT POWER TO ANY AUDIO/PA SYSTEMS IN USE (SEE DETAIL THIS SHEET).
- UPON ACTIVATION OF THE FIRE ALARM SYSTEM BY ANY SMOKE DETECTOR OR OTHER AUTOMATIC DETECTION DEVICE, THE FOLLOWING SHALL TAKE PLACE IN ADDITION TO THE ABOVE:
 - SHUT DOWN ALL AIR HANDLERS AND EXHAUST FANS SUPPLYING AND/OR EXHAUSTING AIR IN THE ZONE WHERE THE ALARM IS INITIATED.
- MANUAL STATIONS SHALL BE USED ONLY FOR PROTECTIVE SIGNALING PURPOSES.
- ALL ALARM SYSTEM COMPONENTS SHALL BE LISTED AS SUITABLE FOR USE IN THE PHYSICAL LOCATIONS ACTUALLY USED. (i.e.: INDOOR, DAMP, WET HAZARDOUS, EXPLOSION PROOF, ETC..)
- CIRCUIT BREAKER FEEDING "FACP" OR "DACT" MUST HAVE "LOCK ON" PROVISION, PAINTED RED, AND LABELED "FIRE ALARM CIRCUIT".
- LOCATION AND QUANTITIES OF WATER FLOW AND TAMPER SWITCHES ARE UNKNOWN AT TIME OF DESIGN; ALL FIRE SPRINKLER SYSTEMS HAVE THESE DEVICES. PRICING SHALL INCLUDE CONNECTIONS OF THESE DEVICES WHETHER SHOWN OR LOCATED ON THE DESIGN DRAWINGS.
- PROVIDE TAMPER SWITCH CONNECTIONS AND WIRING FOR ALL PROJECTS WITH REMOTE P.I.V. AND/OR VALVE AND BACKFLOW PREVENTORS.
- DUE TO LACK OF KNOWING WHICH MANUFACTURER'S EQUIPMENT WILL BE INSTALLED, THE SUPPLIER MUST PROVIDE BATTERY CALCULATIONS AND CAPACITY TO EXCEED THIS REQUIRED POWER. STANDBY POWER IS REQUIRED TO PROVIDE 24 HOURS OF OPERATION PLUS 5 MINUTES OF HORN SIGNAL OR 24 HOURS STANDBY PLUS 15 MINUTES OF ALARM FOR VOICE SYSTEMS.
- "SPOT" SMOKE DETECTORS SHALL BE PROVIDED TO OPERATE IN ENVIRONMENT WHERE INSTALLED, i.e.: NON AIR CONDITIONED ELEVATOR LOBBIES, MACHINE ROOMS AND HOIST WAY AT 100' AND 100% RELATIVE HUMIDITY.
- INSTALL A MAXIMUM QUANTITY OF DEVICES AS FOLLOWS:
 - 20 PULL STATIONS PER CIRCUIT.
 - 20 SMOKE DETECTORS PER CIRCUIT.
 - 40 PIEZO EFFECT HORNS PER CIRCUIT.
 - 20 HEAT DETECTORS PER CIRCUIT.
 - 5 WATER FLOW SWITCHES PER CIRCUIT.
 - SPEAKER LOAD NOT EXCEED 80% OF AMPLIFIER CAPACITY.
- ALL WIRING IS TO BE SUPERVISED. THIS SHALL INCLUDE THE TELEPHONE LINES FROM THE DACT TO THE CENTRAL STATION OR REMOTE SERVICE.
- THE FIRE ALARM SYSTEM CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SEPARATE PERMIT FOR ALL FIRE ALARM SYSTEMS, AND FOR INSTALLATION & ACCEPTANCE OF THE SYSTEM BY THE LOCAL AUTHORITY HAVING JURISDICTION. LOCATION AND QUANTITIES OF DEVICES ARE SHOWN ON THE PLANS AND IDENTIFIED BY THE SYMBOL LEGEND, RISER & FIRE ALARM SYSTEM NOTES AS TO THE SYSTEM REQUIREMENTS. IT IS A REQUIREMENT OF THIS PROJECT THAT THE ALARM EQUIPMENT MANUFACTURER WHICH IS TO PROVIDE THE ALARM SYSTEM SHALL PROVIDE:
 - EQUIPMENT SHOP DRAWINGS (SUBMITTALS)
 - FIELD WIRING DIAGRAMS WHICH INDICATE CONDUCTOR AND CABLE SIZES.
 - ELECTRICAL LOAD TOTALS OF THE SYSTEM TO VERIFY THE RATING OF THE REQUIRED STANDBY BATTERY (WHICH IS PART OF THE SYSTEM) IN ACCORD WITH NFPA 72 REQUIREMENTS.
- BATTERY CALCULATIONS ARE NOT SHOWN AS THESE WILL VARY ACCORDING TO MANUFACTURER OF EQUIPMENT UTILIZED.
- WIRING SHOWN MAY BE MODIFIED BY THE CONTRACTOR DOING THE INSTALLATION IN ACCORDANCE WITH PERMIT DRAWINGS AND APPROVED BY SYSTEM MANUFACTURER.
- ALL ALARM WIRING ENTERING OR LEAVING THE BUILDING SHALL HAVE TVSS PROTECTION SUITABLY GROUNDED, INCLUDING THE WIRING TO REMOTE PIV, BACK FLOW PREVENTORS, AND INCOMING TELEPHONE LINES. TVSS DEVICES ARE REQUIRED ON 120 VOLT AC POWER SUPPLY LINES.
- AUXILIARY CONTROL RELAYS SHALL BE WITHIN 3'-0" OF CONTROLLED EQUIPMENT.
- ALL STROBES TO BE SYNCHRONIZED.
- CONTRACTOR SHALL PROVIDE OPERATORS MANUALS TO OWNER UPON COMPLETION OF PROJECT.
- AREA AUTHORITIES REQUIRE FACP TO BE LOCATED IN AIR CONDITIONED SPACE (EQUIPMENT MANUFACTURER ENVIRONMENTAL OPERATION SPECIFICATIONS). IF THIS REQUIREMENT IS TO BE MET BY INSTALLING A CONDITIONING SYSTEMS SPECIFICALLY FOR THE FACP, THEN THAT SYSTEM'S BRANCH BREAKER SHALL BE IDENTIFIED WITH RED PAINT AND BE INSTALLED WITH A LOCK ON TAB.
- ANY SYSTEM DESIGNED TO LOCK OR UNLOCK EGRESS DOORS SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM SUCH THAT, UNDER ALARM CONDITIONS, ALL EGRESS DOORS SHALL BE UNLOCKED.
- SPRINKLED BUILDINGS SHALL HAVE A FLASHING STROBE LIGHT, PULL STATION, AND AUDIBLE SIGNAL AT FIRE SERVICE RISER (FSR). THE INTENT IS TO PROVIDE THE RESPONDING FIRE DEPARTMENT WITH AN EASY MEANS OF IDENTIFYING THE FDC. IF THE BUILDING CONTAINS MULTIPLE FSRs AND THEREFORE FDCs, THEN THE A/V DEVICE AT THE FSR IS TO BE ACTIVATED ONLY WHEN ITS RESPECTIVE FLOW SWITCH ACTIVATES.
- VERIFY "NON-STANDARD" ALARM SYSTEM REQUIREMENTS WITH FIRE OFFICIAL HAVING JURISDICTION IN PROJECT AREA AND PROVIDE INSTALLATION AS REQUIRED.
- AUXILIARY FIRE CONTROL SYSTEMS (KITCHEN HOOD, HALON, FM2000, ETC..), IF INSTALLED, SHALL INTERCONNECT AND CAUSE SYSTEM ALARM.
- DUCT SMOKE DETECTORS INSTALLED AS REQUIRED BY NFPA 90 ARE TO ACTIVATE THE FIRE ALARM SUPERVISORY SYSTEM (IF A FIRE ALARM SYSTEM IS REQUIRED BY CODE) AS WELL AS SHUT DOWN OF AHU. THEY DO NOT CAUSE SYSTEM ALARM.
- SYSTEM SHALL BE ZONED BY FLOORS AND BY VERTICAL RUNS.
- CANDELLA POWER OF VISUAL DEVICES INDICATED ON PLANS ARE THE LEVELS REQUIRED BY NFPA 72 (AND ADA CODES) TO ADEQUATELY COVER THE SPACE. CONTRACTOR IS RESPONSIBLE FOR MEETING THOSE LEVELS, EXCEEDING THOSE LEVELS, OR RECALCULATING QUANTITY & LOCATIONS FOR COMPLETE COVERAGE.

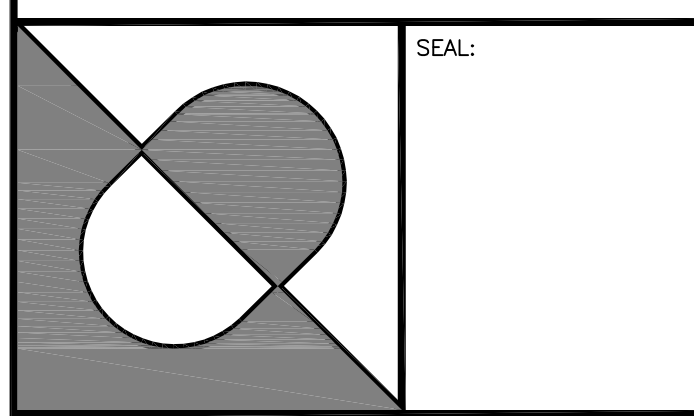


FIRE ALARM RISER DIAGRAM
SCALE: NONE

THIS DRAWING IS BEING RELEASED FOR THE PURPOSE OF BID.

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ARCHITECTURE
and
PLANNING

FLORIDA REGISTRATION AA 0002502

NOTES:

PROJECT:

**City of Naples
Recycle Transfer Facility**

Enterprise Avenue
Naples, Florida

REV.	DESCRIPTION	BY	DATE

DATE: 07 - 25 - 12
PROJECT NO: 11-484
CAD DWG FILE: DDA12.01
DRAWN BY: MAB/JWB
CHK'D BY: MAB/JWB

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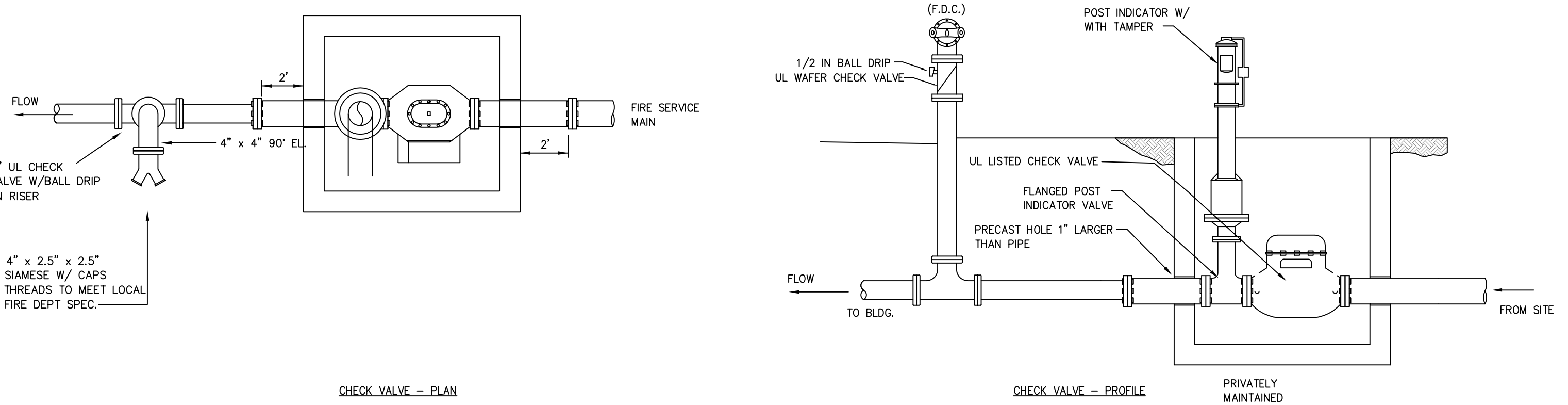
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SHEET TITLE:
**Fire Protection Notes, Details
and Site Plan**

FP-001

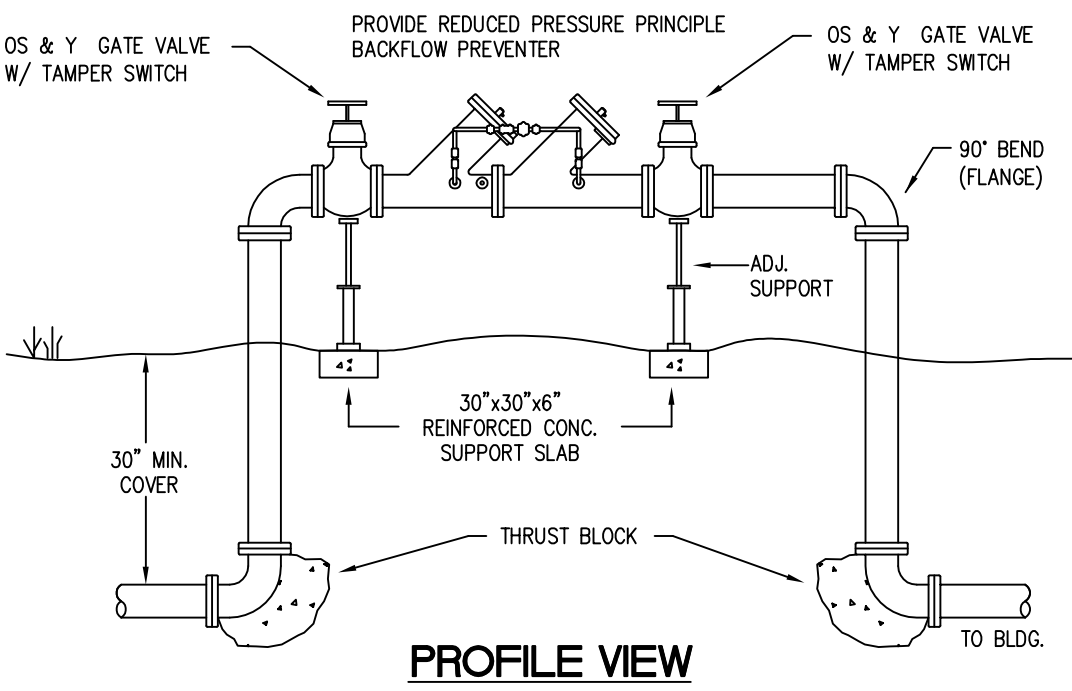
BUILDING UNDERGROUND CONNECTION

N.T.S.



BACKFLOW PREVENTER

N.T.S.

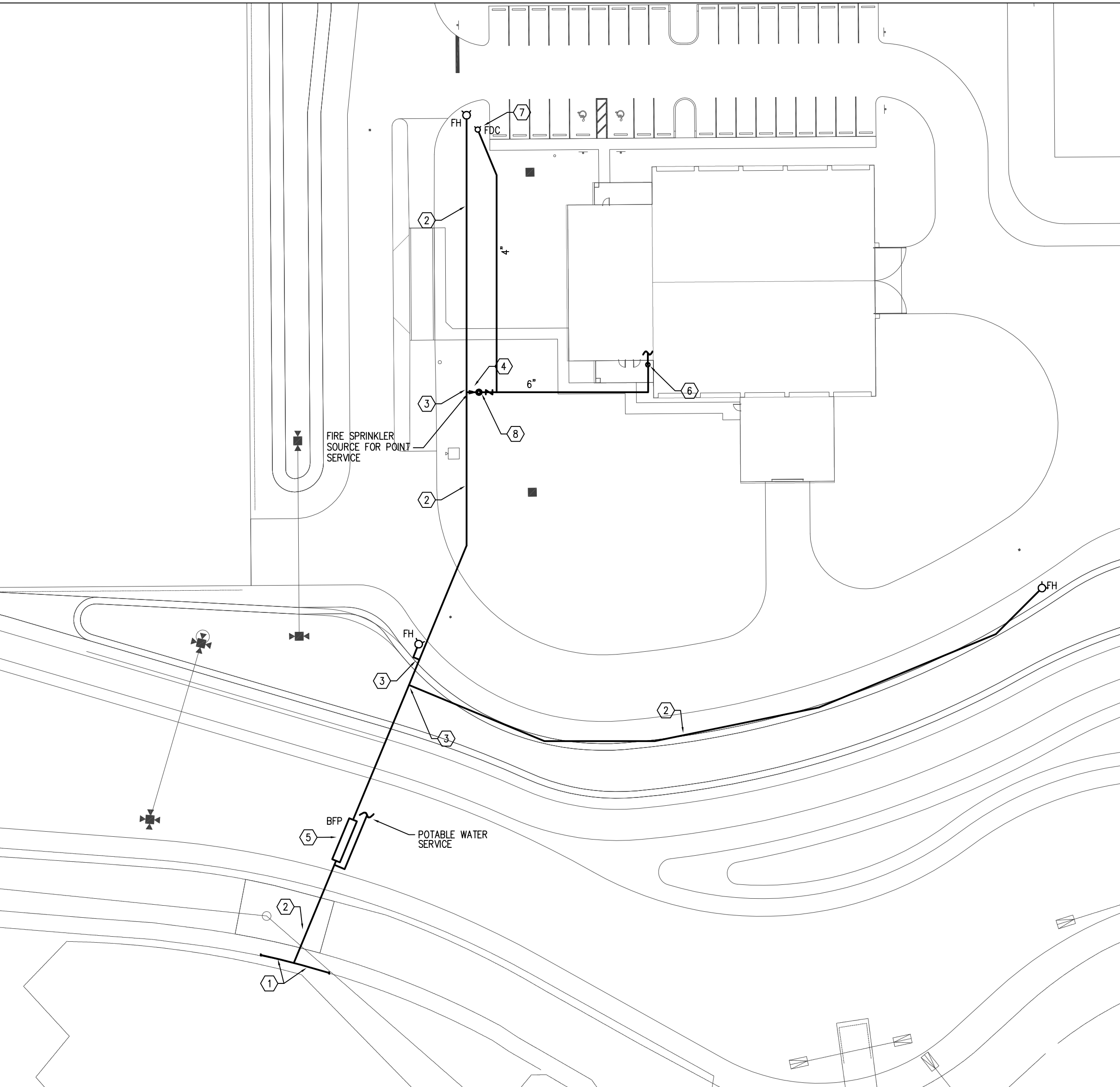
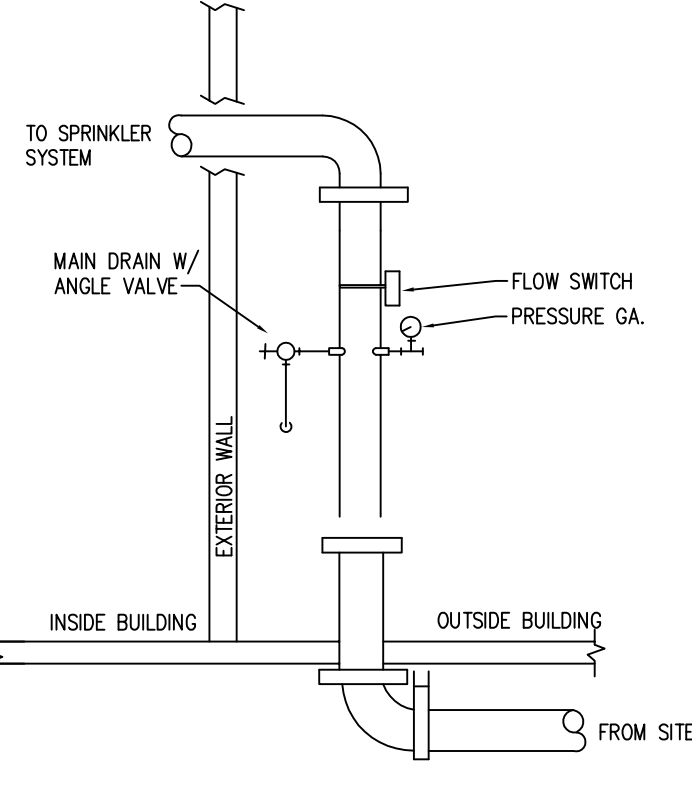


PROFILE VIEW

NOTE: THIS DETAIL IS DIAGRAMATIC ONLY. REFER TO SITE CIVIL FOR MORE DETAILS OF CONSTRUCTION. PROVIDE BACKFLOW ASSEMBLY IN COMPLIANCE WITH LOCAL UTILITIES REQUIREMENTS.

RISER DETAIL

N.T.S.



1 FIRE PROTECTION SITE PLAN
SCALE: 1" = 40'-0"

FIRE PROTECTION SITE PLAN KEYNOTES

- ① 12" WATER MAIN
 - ② 8" WATER MAIN
 - ③ 8" x 8" TEE AND GATE VALVE TO FIRE HYDRANT ASSEMBLY
 - ④ 8" x 6" REDUCER
 - ⑤ 8" BACKFLOW PREVENTER. REFER TO DETAIL, THIS SHEET.
 - ⑥ 4" RISER, SEE DETAIL THIS SHEET.
 - ⑦ REMOTE F.D.C. REFER TO DETAIL, THIS SHEET.
 - ⑧ POST INDICATOR AND CHECK VALVES.
- REFER TO CIVIL PLAN FOR DETAILS OF SITE CONSTRUCTION INCLUDING TAPS AND EXACT LOCATION OF VALVES.

FIRE SPRINKLER 61G15 NOTES

- 61G15 - 32.003 (1) (2) (5):
 1. SCOPE OF WORK:
THE NATURE AND SCOPE OF WORK IS THE CONSTRUCTION AND INSTALLATION OF A NEW FULLY OPERATIONAL AUTOMATIC FIRE SPRINKLER SYSTEM FOR A NEW ONE STORY BUILDING WITH STEEL JOISTS AND BOTH CONCRETE BLOCK AND METAL PANEL EXTERIOR WALLS.
NFPA 24, 2002 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
 2. ACCEPTANCE CRITERIA:
THE ACCEPTANCE TESTING OF THE INTERIOR AND ABOVE GROUND FIRE PROTECTION SYSTEMS AND COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THIS FORM: NFPA 13, 2007 EDITION, FIGURE 16.1. REFER TO NFPA 13, 2007 EDITION, CHAPTER 16 FOR ADDITIONAL REQUIREMENTS OF THE ACCEPTANCE CRITERIA. THE ACCEPTANCE TESTING OF UNDERGROUND FIRE PROTECTION SYSTEMS AND COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THIS FORM: NFPA 13, 2007 EDITION, FIGURE 10.10.1. REFER TO NFPA 13, 2007 EDITION, CHAPTER 10 FOR ADDITIONAL REQUIREMENTS OF THE UNDERGROUND ACCEPTANCE CRITERIA.
 3. STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS:
THE ENGINEER ADVISES THAT ALL STRUCTURAL OPENINGS AND SUPPORT SYSTEMS FOR THE BUILDING, INCLUDING BOTH THE LIVE AND DEAD LOADS OF THE FIRE SPRINKLER INSTALLATION HAVE BEEN ACCOUNTED FOR IN THE STRUCTURAL DESIGN, CONTINGENT UPON SIMILAR STATEMENT PROVIDED BY STRUCTURAL ENGINEER.
- 61G15 - 32.004 (2) (4)-(9):
 - A. POINT OF SERVICE:
THE POINT OF SERVICE FOR LOCATION OF DEDICATED SOURCE FOR FIRE SPRINKLER SYSTEM IS INDICATED ON THE PLANS. THE LOCATION OF THE BACKFLOW PREVENTER, UNDERGROUND WATER MAINS, POST INDICATOR VALVES, FIRE HYDRANT AND FIRE DEPARTMENT CONNECTION AS WELL AS SOURCE DEDICATED TO FIRE SPRINKLER SYSTEM IS AS SHOWN ON PLANS.
 - B. APPLICABLE NFPA STANDARDS TO BE APPLIED:
NFPA 13, 2007 EDITION, INSTALLATION OF SPRINKLER SYSTEMS
NFPA 24, 2007 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
 - C. CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH SPACE:
OFFICES, CORRIDORS, BATHROOMS, FITNESS ROOM, BUNKROOMS, VESTIBULE, LIVING ROOM, COVERED OUTDOOR PORCH, CONTROL ROOM
-LAYOUT AS LIGHT HAZARD OCCUPANCY
SORTING AREA/BACK STORAGE-LAYOUT AS MISCELLANEOUS PALLETIZED, BIN, BOX OR SHELF STORAGE FOR CLASS IV COMMODITY LESS THAN 12' STORAGE HEIGHT.
 - D. DESIGN APPROACH:
FIRE PROTECTION SHALL BE PROVIDED BY A WET PIPE AUTOMATIC FIRE SPRINKLER SYSTEM, USING BLACK STEEL, SCHEDULE 40 STEEL PIPING ON ALL PIPING LESS THAN (INCLUDING) 2 INCH IN SIZE AND THINWALL BLACK STEEL EQUAL TO ALLIED "XL" OR EQUAL ON ALL PIPING GREATER THAN 2 INCH IN SIZE. SPRINKLER COVERAGE SHALL BE AS INDICATED BELOW FOR EACH CLASSIFICATION AS INDICATED ABOVE. USE SEMI-RECESSED PENDANT SPRINKLERS FOR ALL SPRINKLERS. ALL SPRINKLERS SHALL BE A MINIMUM OF 5.6 K FACTOR AND ORDINARY TEMPERATURE AS DEFINED BY TABLE 6.2.5.1. SPRINKLER SPACING SHALL BE IN ACCORDANCE WITH NFPA 13 AS WELL AS THE LISTING OF THE INSTALLED SPRINKLER. PROVIDE UPRIGHT SPRINKLERS WITH INTERMEDIATE TEMPERATURE FOR UNCONDITIONED SORTING AND STORAGE AREAS.
LIGHT HAZARD AREAS SHALL BE COVERED WITH A MINIMUM OF .1 GPM PER SQUARE FOOT FOR A MINIMUM OF 1500 SQUARE FEET WITH A MAXIMUM OF 225 SQUARE FOOT PER SPRINKLER.
SORTING AND STORAGE AREA SHALL BE DESIGNED AS CLASS IV COMMODITY, STORED AS PALLETIZED, BIN BOX, AND SHELF STORAGE LESS THAN 12 IN HEIGHT. PER TABLE 13.2.1, FIRE FLOW SHALL BE BASED ON ORDINARY HAZARD GROUP II DESIGN CURVE AS REPRESENTED ON FIGURE 13.2.1. AN INDOOR MOP UP HOSE FOR 100 GPM OF FLOW SHALL BE PROVIDED WITHIN THE STORAGE SPACE. THE CONTRACTOR SHALL USE QUICK RESPONSE SPRINKLERS AND THE CONTRACTOR SHALL REDUCE COVERAGE AREA IN ACCORDANCE WITH FIGURE 11.2.3.2.3.1. IN NFPA 13.
 - E. CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:
THE WATER MAIN THAT IS LOCATED ON SITE SHALL BE USED AND IS A CIRCULATING WATER MAIN. DURATION IS GOOD BASED THE FIRE HYDRANT FLOW TEST INDICATED BELOW.
 - F. FLOW TEST DATA:
THE RESULTS OF THE CITY OF NAPLES FIRE DISTRICT DONE ON HYDRANT ON SITE ON 2/28/2012 ARE: 75 PSI STATIC, 55 PSI RESIDUAL @ 1088 GPM, 1879 GPM IS AVAILABLE AT 20 PSI. CONTRACTOR SHALL DERATE FLOW TEST IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION WHEN PREPARING HYDRAULIC CALCULATIONS AND WORKING DRAWINGS.
 - G. VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:
A NEW FIRE SPRINKLER RISER FOR THIS BUILDING SHALL BE PROVIDED WITH A WATER FLOW SWITCH WITH REMOTE MONITORING. ALL SHUTOFF VALVES SHALL HAVE TAMPER SWITCHES MONITORED BY THE BUILDING FIRE ALARM SYSTEM.
 - H. MICROBIAL INDUCED CORROSION:
THE LOCAL WATER PURVEYOR ACKNOWLEDGES THAT THE WATER SERVICES PROVIDED MEETS OR EXCEEDS STATE AND FEDERAL CORROSION WATER CONTROL QUALITY PARAMETERS. PURSUANT TO CONVERSATIONS WITH THE LOCAL WATER PURVEYOR, THE ENGINEER OF RECORD IS SATISFIED THAT MIC CORRECTIVE MEASURES CURRENTLY ARE UNNECESSARY.
 - I. BACKFLOW PREVENTION AND METERING SPECIFICATION:
THE BACKFLOW PREVENTION DEVICE ASSEMBLY AND THE METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE LOCAL WATER PURVEYOR. THE BACKFLOW PREVENTION DEVICE IS TO HAVE A MAXIMUM ALLOWABLE PRESSURE DROP OF 10 PSI.
 - J. QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:
ALL COMPONENTS INCLUDING HANGERS, SPRINKLERS, PIPING, VALVES, AND ALL ACCESSORIES FOR THE COMPLETE FIRE SPRINKLER SYSTEM SHALL BE UL OR FM LISTED.

FIRE SPRINKLER GENERAL NOTES

- 1 THE FIRE PROTECTION SPRINKLER SYSTEM(S) SHALL BE HYDRAULICALLY CALCULATED BY FIRE SPRINKLER CONTRACTOR, IN STRICT ACCORDANCE WITH 2002 EDITION OF NFPA STANDARDS # 13.
- 2 WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL SPRINKLER SYSTEM.
- 3 THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO ENSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL, ETC.). * NOTE HVAC DUCTWORK MUST BE GIVEN PRIORITY IN LAYOUT. OFFSET SPRINKLER MAINS UP OR DOWN AS REQUIRED TO AVOID CONFLICT WITH DUCTWORK. COORDINATE IN THE FIELD WITH HVAC CONTRACTOR.
- 4 IN GENERAL, ALL PIPING SHALL BE RUN CONCEALED IN CEILING AND PIPE SPACES PROVIDED UNLESS NOTED OR INDICATED OTHERWISE. ALL PIPING OF ANY TYPE OR FUNCTION SHALL BE SUSPENDED FROM THE STRUCTURE WITH U.L. APPROVED HANGERS.
- 5 VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND FIELD DIMENSIONS.
- 6 UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
- 7 THE COMPLETED FIRE SPRINKLER SYSTEM SHALL MEET WITH THE APPROVAL OF THE STATE OF FLORIDA AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- 8 THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES PRIOR TO COMMENCING WORK.
- 9 THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL PIPING, INCLUDING ALL NECESSARY VALVES AND FIRE DEPARTMENT CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- 10 THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PURCHASE AND INSTALLATION OF ALL TAMPER SWITCHES AND FLOW MONITOR DEVICES.
- 11 THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING WORKING DRAWINGS FOR SUBMISSION TO LOCAL AUTHORITY HAVING JURISDICTION.
- 12 SPARE SPRINKLERS SHALL BE PROVIDED AT THE QUANTITIES NECESSARY FOR ALL TYPES AND RATINGS IN STRICT ACCORDANCE WITH NFPA #13.
- 13 ABOVE GROUND PIPING:
 - A. UP TO 2" SCHEDULE 40 BLACK STEEL, ROLL GROOVE OR WELD FITTING, NO WELDING ON SITE. WHERE PIPING SERVES LIGHT HAZARD AREAS AND IS DOWNSTREAM OF PRESSURE REDUCING VALVES.
 - B. 2" AND LARGER, SCHEDULE 10 OR ALLIED XL, OR DUCTILE IRON WITH MECHANICAL JOINTS.
- 14 VALVES: ALL VALVES SHALL BE UL LISTED, RATED AT 1.5 TIMES THE WORKING PRESSURE OF THE PIPE TO WHICH IS ATTACHED.
- 15 SPRINKLER CONTRACTOR SHALL VISIT THE PROJECT SITE TO STUDY AND FAMILIARIZE HIM/HER-SELF WITH THE SITE AND CONSTRUCTION TYPES, (I.E. TRUSS MATERIALS).
- 16 PIPE HANGERS: U.L. LISTED WITH ALL THREAD RODS AND RING HANGERS. ALL CONCEALED PIPE HANGERS SHALL BE HOT-DIPPED GALVANIZED STEEL.
- 17 PROVIDE APPROVED U.L. FIRE PENETRATION SYSTEM FOR PENETRATION OF ALL FIRE WALLS AND CEILINGS. SUBMIT PROPOSED MEANS OF FIRESTOPPING FOR ENGINEER TO REVIEW.
- 18 FLOW SWITCH: BY SPRINKLER CONTRACTOR
- 19 PROVIDE CALCULATION PLATE AND COPY OF NFPA 25, ABOVE AND UNDERGROUND TEST CERTIFICATES TO OWNER AND FIRE OFFICIALS WHEN COMPLETED.
- 20 CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VISITING SITE TO EVALUATE EXISTING CONDITION OF FIRE SPRINKLER SYSTEM AND TO PROVIDE ALL NECESSARY ITEMS TO ENABLE CONNECTION TO EXISTING SYSTEM FOR PROPOSED ADDITION.
- 21 SPRINKLER HEADS: ALL HEADS ARE ORDINARY TEMPERATURE RATED (AS DEFINED BY N.F.P.A. 13) UNLESS OTHERWISE INDICATED ON PLANS. SPRINKLERS LOCATED IN UNCONDITIONED WAREHOUSE AND STORAGE SHALL BE INTERMEDIATE TEMPERATURE RATED.
- 22 CEILING MOUNTED: 5.6 OR 8.0 K FACTOR, SEMI-RECESSED HEAD SPRINKLERS (UNLESS OTHERWISE NOTED ON PLANS).

LEGEND

	FIRE MAIN PIPING		CHECK VALVE
	DASHED LINE INDICATES ANY EXISTING CONDITIONS		VALVE
	BACKFLOW PREVENTER		PENDENT SPRINKLER HEAD
	FIRE DEPARTMENT CONNECTION (FDC)		UPRIGHT SPRINKLER HEAD
	FIRE HYDRANT		PENDENT SPRINKLER HEAD
	TAMPER SWITCH (TS)		SPRINKLER RISER

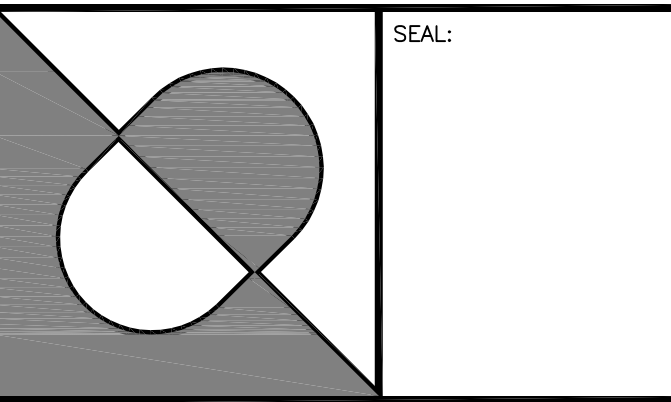
* SPRINKLER HEADS MAY BE RELOCATED AS NEEDED TO COMPLY WITH STRUCTURAL OR TRADE ISSUES, PROVIDING THAT MAX. COVERAGE IS MAINTAINED AS OUTLINED IN 61G15 NOTES.

THIS DRAWING IS BEING RELEASED FOR THE PURPOSE OF BID.

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ARCHITECTURE
and
PLANNING

FLORIDA REGISTRATION AA 0002502

NOTES:

PROJECT:

**City of Naples
Recycle Transfer Facility**

Enterprise Avenue
Naples, Florida

REV.	DESCRIPTION	BY	DATE
07	25	12	

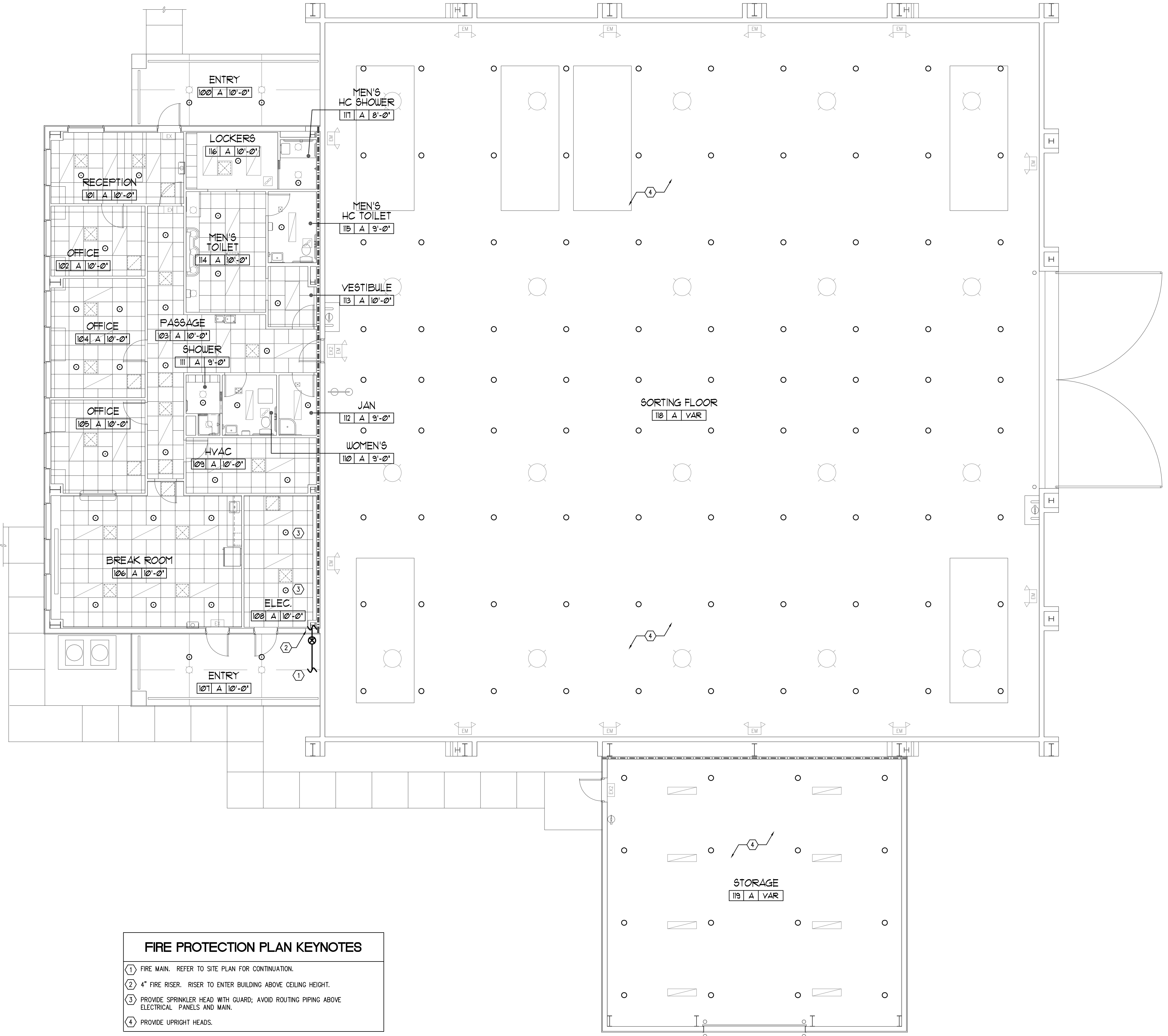
DATE: 07 - 25 - 12
PROJECT NO: 11-484
CAD DWG FILE: DDA12.01
DRAWN BY: -
CHK'D BY: MAB/JWB

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SHEET TITLE:
Fire Protection Plan

FP-101



- FIRE PROTECTION PLAN KEYNOTES**
- ① FIRE MAIN. REFER TO SITE PLAN FOR CONTINUATION.
 - ② 4" FIRE RISER. RISER TO ENTER BUILDING ABOVE CEILING HEIGHT.
 - ③ PROVIDE SPRINKLER HEAD WITH GUARD; AVOID ROUTING PIPING ABOVE ELECTRICAL PANELS AND MAIN.
 - ④ PROVIDE UPRIGHT HEADS.

1 FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"