

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER PIPING
	HOT WATER PIPING
	SANITARY DRAINAGE PIPING (ABOVE SLAB)
	SANITARY DRAINAGE PIPING (UNDERGROUND)
	STORM LEADER - PRIMARY
	STORM PIPING (UNDERGROUND)
	VENT PIPING
	CONDENSATE PIPING
	CONDENSATE PIPING (UNDERGROUND)
	BALL VALVE
	CHECK VALVE
	PRESSURE REGULATING VALVE
	THERMOSTATIC MIXING VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	COMBINATION BALANCING/SHUTOFF VALVE
	RELIEF VALVE
	FLOW MEASUREMENT STATION
	Y-TYPE STRAINER
	CLEANOUTS
	PIPE END CAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE TURNING DOWN (TEE)
	PIPING TEE
	ROLL DOWN
	P-TRAP
	FLOW ARROW
	HOSE BIBB / WALL HYDRANT
	WATER HAMMER ARRESTER & SIZE
	THERMOMETER
	PRESSURE GAUGE
	CIRCULATING PUMP

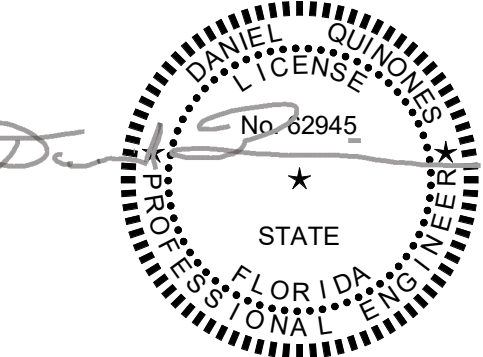
PLUMBING ABBREVIATIONS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AS	ABOVE SLAB	NA	NOT APPLICABLE
AD	ACCESS DOOR	NC	NORMALLY CLOSED
ADA	AMERICANS WITH DISABILITIES ACT	NIC	NOT IN CONTRACT
AFT	ABOVE FINISHED FLOOR	NO	NORMALLY OPEN
AFG	ABOVE FINISHED GRADE	NSF	NATIONAL SANITATION FOUNDATION
ALT	ALTERNATE	NTS	NOT TO SCALE
ANSI	AMERICAN NATIONAL STANDARDS		
AP	INSTITUTE	OC	ON CENTER
ASTM	ACCESS PANEL	OD	OUTSIDE DIAMETER
AWWA	AMERICAN STANDARDS TESTING MATERIALS	ORWL	OVERFLOW RAIN WATER LEADER
	AMERICAN WATER WORKS ASSOCIATION	PCT	PERCENT
BAS	BUILDING AUTOMATION SYSTEM	PCW	PUMPED COLD WATER
BFP	BACKFLOW PREVENTER	PDI	PLUMBING DRAINAGE INSTITUTE
BF	BELOW FLOOR	PH	PHASE
BG	BELOW GRADE	PIW	PUMPED INDUSTRIAL WASTE
BHP	BREAK HORSEPOWER	POC	POINT OF CONNECTION
BOP	BOTTOM OF PIPE	PPP	PRECISION PLUMBING PRODUCTS
BS	BELOW SLAB	PRV	PRESSURE REDUCING VALVE
BTU	BRITISH THERMAL UNIT PER HOUR	PSAN	PUMPED SANITARY
		PSI	POUNDS PER SQUARE INCH
CA	COMPRESSED AIR	PW	PROCESS WATER
CAP	CAPACITY	RM	ROOM
CD	CONDENSATE	RPM	REVOLUTION PER MINUTE
CFH	CUBIC FEET PER HOUR	RWL	RAIN WATER LEADER
CO	CLEANOUT	S	SANITARY
CONN	CONNECTION	S U/G	SANITARY UNDERGROUND
CONT	CONTINUE	SCH	SCHEDULE
CP	CIRCULATING PUMP	SEC	SECOND
CW	DOMESTIC COLD WATER	SH	SHOWER
DF	DRINKING FOUNTAIN	SHT	SHEET
DFU	DRAINAGE FIXTURE UNITS	SK	SINK
DIA	DIAMETER	SL	SODA LINE
DN	DOWN	SP	STATIC PRESSURE
DWG	DRAWING	SPEC	SPECIFICATION
DW	DOMESTIC WATER	SO	SQUARE
ECO	EXTERIOR CLEANOUT	SS	STAINLESS STEEL
EFF	EFFICIENCY	SSD	SUB SOIL DRAIN
ELEC	ELECTRIC, ELECTRICAL	STO	STORM
ELEV	ELEVATION	STO	STORM OVERFLOW
EQUIP	EQUIPMENT	STD	STANDARD
EWC	ELECTRIC WATER COOLER	STL	STEEL
EWI	ELECTRIC WATER HEATER	STM	STEAM
EXIST	EXISTING	STS	STORM SEWER
		TDH	TOTAL DYNAMIC HEAD
°F	DEGREES FAHRENHEIT	TEMP	TEMPERATURE
FCO	FLOOR CLEANOUT	TET	THERMAL EXPANSION TANK
FD	FLOOR DRAIN	TMV	THERMOSTATIC MIXING VALVE
FIN	FINISH	TOP	TOP OF PIPE
FL	FLOOR	TOS	TOP OF SLAB
FPS	FEET PER SECOND	TP	TRAP PRIMER
FT	FEET	TYP	TYPICAL
FU	FIXTURE UNITS		
G	NATURAL GAS	UL	UNDERWRITER LABORATORY
GAL	GALLONS	U/G	UNDERGROUND
GPM	GALLONS PER MINUTE	UNO	UNLESS NOTED OTHERWISE
GR	GREASE WASTE	UR	URINAL
H ₂ O	WATER	V	VENT
HB	HOSE BIBB	V	VOLTS, VOLTAGE
HP	HORSEPOWER	VAC	VACUUM
HR	HOUR	VTR	VENT THROUGH ROOF
HW	DOMESTIC HOT WATER	VIV	VALVE IN VERTICAL
HWC	DOMESTIC HOT WATER CIRCULATION	VLV	VALVE
HZ	HERTZ	VOL	VOLUME
IE	INVERT ELEVATION	W	WATT (S)
ID	INTERNAL DIAMETER	WI	WATER CLOSET
IN	INCHES	WC	WALL CLEANOUT
IPS	INTERNATIONAL PIPE STANDARD	WCO	WALL CLEANOUT
IRR	IRRIGATION WATER	WHA	WATER HAMMER ARRESTOR
IW	INDUSTRIAL WASTE	WHY	WALL HYDRANT
		WU	WATER SUPPLY FIXTURE UNITS
KW	KILOWATTS		
LAV	LAVATORY		
LF	LINEAR FEET		
MAX	MAXIMUM		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MN	MINIMUM		
MNTG	MOUNTING		
MS	MOP SINK		

GENERAL LEGEND	
SYMBOL	DESCRIPTION
	PLUMBING RISER DESIGNATION: A = RISER IDENTIFYING SYSTEM TYPE 1 = RISER IDENTIFYING SYSTEM NUMBER
	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN SIM = SIMILAR (ONLY NOTED IF IT APPLIES)
	TITLE SYMBOL, ON SHEET WHERE SHOWN A = IDENTIFYING NUMBER/LETTER
	REVISION CLOUD AND REVISION NUMBER
	KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION
	POINT OF DEMOLITION
	DEMOLITION HATCH

NOT ALL SYMBOLS USED

PLUMBING GENERAL NOTES	
1.	ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH 2023 FLORIDA BUILDING CODE - PLUMBING.
2.	LOCATE VALVES IN ACCESSIBLE AREAS AS DEFINED BY THE 2023 FLORIDA BUILDING CODE - PLUMBING. PROVIDE ACCESS PANELS WHERE NECESSARY. (12"x12" MIN.)
3.	COORDINATE ACTUAL LOCATIONS OF MECHANICAL ROOM FLOOR DRAINS WITH FINAL EQUIPMENT LOCATIONS ON SHOP DRAWINGS.
4.	VENT PIPING SHOWN IS ONLY FOR DIAGRAMMATIC PURPOSES. COORDINATE VTRS WITH HVAC AIR INTAKES.
5.	PROVIDE BACKWATER VALVES FOR CONDENSATE PIPING CONNECTIONS TO STORM SEWER.
6.	ROUTE WATER HEATER T&P VALVE PIPING TO BUILDING EXTERIOR WHERE POSSIBLE. ALTERNATE DISCHARGE LOCATIONS WILL BE MOP SINKS OR ADJACENT FLOOR DRAINS ONLY.
7.	PROVIDE PIPE MARKER FOR ALL PIPING ABOVE THE CEILING SPACES IN ACCORDANCE WITH DIVISION 22 SPECIFICATION SECTION. "IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT".
8.	LABEL VALVES ABOVE CEILINGS AND IN CONCEALED SPACES AT CEILING TILE WITH METAL CEILING TACKS INDICATING VALVE # AND TYPE OF WATER. (i.e.; BLUE= COLD WATER, LETTERING CW VLV1-001).
9.	PROVIDE WATER HAMMER ARRESTORS IN ALL HW AND CW SUPPLY PIPING AS REQUIRED AND/OR AS SHOWN ON WATER RISERS. INSTALL IN ACCORDANCE WITH PDI-WH201 STANDARDS. SEE SCHEDULE FOR SIZES. AIR CHAMBERS ARE NOT ACCEPTABLE SUBSTITUTIONS.
10.	PROVIDE THERMAL INSULATION FOR HOT WATER PIPING IN ACCORDANCE WITH THE ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION AND PER SPECIFICATIONS.
11.	PROVIDE CLEANOUTS AT THE BASE OF EACH SANITARY STACK IN ACCORDANCE WITH 2023 FLORIDA BUILDING CODE - PLUMBING. SIZE CLEANOUTS TO MATCH THE PIPING SERVED. SPACE FLOOR CLEANOUTS AT 100'-0" MAX. ALSO PROVIDE CLEANOUTS IN HORIZONTAL CHANGE OF DIRECTION > 45°.
12.	THE MANUFACTURERS OF EQUIPMENT SHOWN ARE THE BASIS OF DESIGN AND ARE THE OWNER'S PREFERRED MANUFACTURER OF CHOICE. SEE SPECIFICATION FOR OTHER ACCEPTABLE MANUFACTURERS.
13.	FIRE CAULK AND SLEEVE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR RATED ASSEMBLY LOCATIONS. REFER TO ARCHITECTURAL SHEETS FOR DETAILS AND UL ASSEMBLY NUMBERS.
14.	REFER TO ARCHITECTURAL SHEETS FOR FIXTURE MOUNTING HEIGHTS NOT GIVEN IN PLUMBING FIXTURE SCHEDULE.
15.	COORDINATE UNDERGROUND PIPING INVERT ELEVATIONS WITH STRUCTURAL FOOTING ELEVATIONS AND CIVIL INVERT CONNECTIONS PRIOR TO ANY UNDERGROUND PIPING INSTALLATIONS. IF FOOTINGS ARE IN CONFLICT AND WHERE A PIPING ROLL DOWN IS NOT POSSIBLE, COORDINATE WITH GENERAL CONTRACTOR FOR DROPS IN FOOTING AS REQUIRED.
16.	COORDINATE CEILING PIPING AND ELEVATIONS IN SHOP DRAWINGS WITH HVAC, FIRE PROTECTION AND ELECTRICAL TRADES TO ENSURE CLEARANCES AND PENETRATIONS, PRIOR TO INSTALLATION.
17.	SLOPE SANITARY PIPING 2-1/2" OR LESS AT 1/4" PER FOOT. SLOPE SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT.
18.	VALVES AND FITTINGS SHALL BE THE SAME SIZE AS THE PIPING WHERE THEY ARE LOCATED UNLESS NOTED OTHERWISE.
19.	PROVIDE ALL NECESSARY SUPPORTING DEVICES FOR FIXTURES.
20.	PROVIDE FLOOR DRAINS WITH TRAP PRIMER CONNECTIONS, AND AUTOMATIC TRAP PRIMERS FOR PROTECTION OF ALL FLOOR DRAIN TRAP SEALS, UNLESS NOTED OTHERWISE.
21.	ROUGH-IN WASTE AND WATER SUPPLIES FOR FIXTURES AND PERFORM FINAL CONNECTIONS AS NEEDED.
22.	THE CONTRACTOR SHALL BASE HIS/HER PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED. USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURE OF EQUIPMENT IS SPECIFIED, ANY ONE OF THE MANUFACTURERS OF EQUIPMENT MAY BE USED IN THIS CONTRACTOR'S PROPOSAL. IF THE CONTRACTOR WISHES TO USE EQUIPMENT NOT SPECIFIED HE/SHE MUST, AT THE TIME OF BIDDING, SUBMIT SEPARATELY ON LETTERHEAD STATIONARY OF THE BIDDER, THE EQUIPMENT HE/SHE WOULD SUBSTITUTE AND THE COST TO BE ADDED OR TO BE DEDUCTED FROM HIS/HER PROPOSAL.
23.	ROUGH IN FLUSH VALVE WATER CLOSETS SO THAT THE FLUSH VALVE HANDLE IS TO THE WIDE SIDE OF THE ROOM, AS PER FLORIDA PLUMBING CODE, SECTION 404.3.5.
24.	COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
25.	POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND, DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR WATER PURVEYOR HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED BELOW. THIS REQUIREMENT SHALL APPLY TO "ON-SITE" OR "IN-PLANT" FABRICATION OF A SYSTEM OR TO A MODULAR PORTION OF A SYSTEM. A. THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET. B. THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION (50 MG/L) OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PARTS PER MILLION (200 MG/L) OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS. C. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM. D. THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT NO CONTAMINATION REMAINS PRESENT IN THE SYSTEM.
26.	ALL AUTOMATIC CONTROL, PROTECTIVE OR SIGNAL DEVICES REQUIRED FOR THE OPERATION SPECIFIED, SHALL BE PROVIDED WITH ANY CONTROL WIRING AND INSTALLED PER MANUFACTURERS REQUIREMENTS.
27.	ALL ABOVEGROUND SANITARY AND VENT RISER SHALL BE SERVICE WEIGHT NO-HUB CAST IRON PIPE WITH SCHEDULE 40 PVC BRANCH PIPE. SANITARY PIPING BELOW GRADE SHALL BE SCHEDULE 40 SOLID CORE PVC PIPE ASTM 2865.
28.	ALL STORM WATER PIPING SHALL BE SCHEDULE 40 SOLID CORE PVC PIPE ASTM 2865 WITH ALL HORIZONTAL PIPE FULLY INSULATED.
29.	THE PRIMARY ROOF DRAIN SYSTEM HAVE BEEN DESIGNED TO HANDLE 100 YEAR FOR ONE HOUR AT 4.5" PER HOUR RAINFALL RATE.
30.	ALL HOT AND COLD WATER PIPING SHALL BE TYPE 'L' COPPER
31.	ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED IN ITS ENTIRETY.
32.	PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR PIPE CONNECTIONS.
33.	PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
34.	INSTALL LATERAL BRACING WITH PIPE HANGERS AND SUPPORTS TO PREVENT SWAYING.
35.	ALL MISCELLANEOUS IRON AND STEEL WORK REQUIRED TO PROPERLY INSTALL THE PLUMBING WORK AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WORK INCLUDES ALL HANGERS, SUPPORTS, RACKS, BRACKETS AND ANY WELDING REQUIRED. ALL MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE GALVANIZED.
36.	PLUMBING CONTRACTOR SHALL COORDINATE/VERIFY ALL FIXTURES AND EQUIPMENT CONNECTIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. PROVIDE ALL NECESSARY APPURTENANCES (INCLUDING BUT NOT LIMITED TO SHUT-OFF VALVES, QUICK CONNECTS, FLEXIBLE TUBING, REGULATORS, GAUGES, FILTERS, DRAINS, COUPLERS, REDUCERS, NIPPLES, DIELECTRIC UNIONS, ETC.) FOR A COMPLETE AND FUNCTIONAL SYSTEM. ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
37.	COORDINATE WITH OTHER TRADES SO THAT THE LIQUID-CONVEYING PIPING IN THE SPACE ABOVE ELECTRICAL EQUIPMENT, THIS SPACE SHALL EXTEND TO THE STRUCTURAL FLOOR ABOVE OR THE ROOF. ELECTRICAL EQUIPMENT INCLUDES PANELBOARDS, VARIABLE FREQUENCY DRIVES, CONTROL PANELS, MOTOR CONTROLLERS, DISCONNECTS AND TRANSFORMER. THE USE OF SPILL CONTAINMENT IS NOT PERMITTED TO MEET THIS REQUIREMENT.
38.	ALL PIPING LOCATED IN RETURN AIR PLENUM SHALL BE FERROUS OR PROPERLY INSULATED TO MEET ASTM E84 25/50 FLAME/SMOKE RATING.

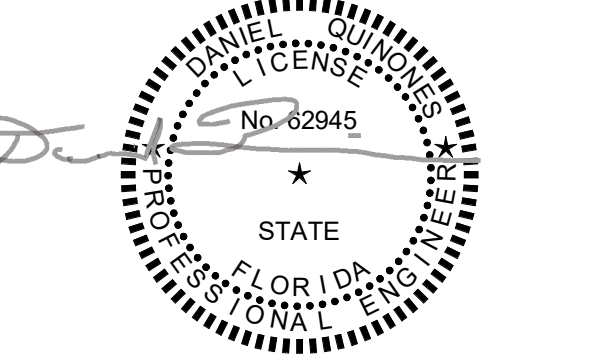
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COLUMBIA STORM PROCESSING FACILITY
ISC STORES WAREHOUSE
BUILDING E
COLUMBIA COUNTY, FLORIDA

To the best of the architect's or engineer's knowledge,
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accordance with Florida Statutes chapters 553 and 633.



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DANIEL QUINONES
FL. NO. 62945
DESIGNED BY
G. CLINE
DRAWN BY
G. CLINE
PROJECT NUMBER
C09414.002
DATE
03/15/26
TITLE

PLUMBING SITE
PLAN - DEMO

DRAWING NO.

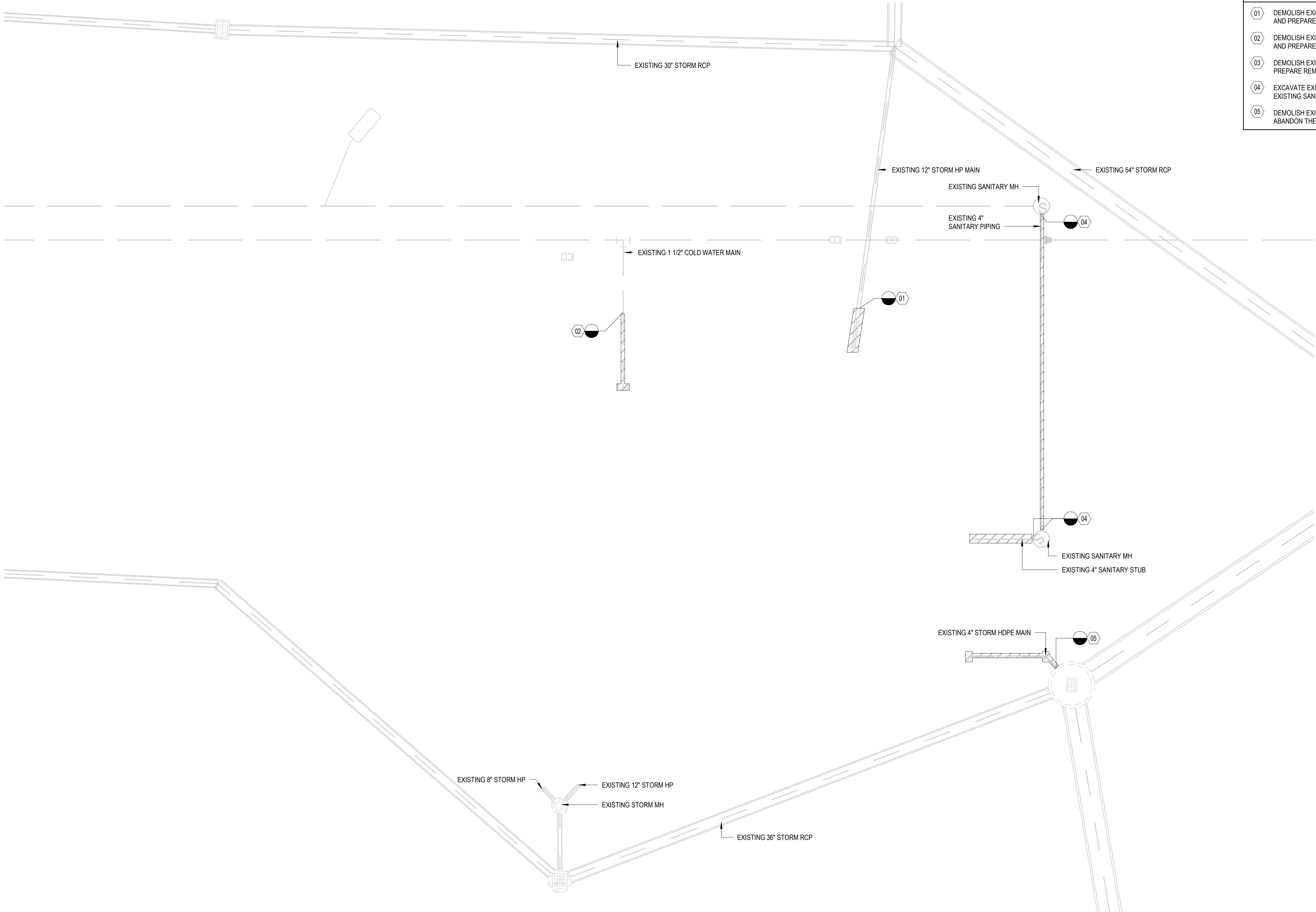
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GENERAL NOTES:

01 EXISTING UTILITIES SHOWN ARE BASED ON EXISTING DRAWINGS AND HAVE NOT BEEN FIELD
VERIFIED. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, INVERTS AND PIPE SIZES OF ALL
EXISTING UTILITIES SHOWN PRIOR TO COMMENCING NEW WORK. IF DISCREPANCIES BETWEEN
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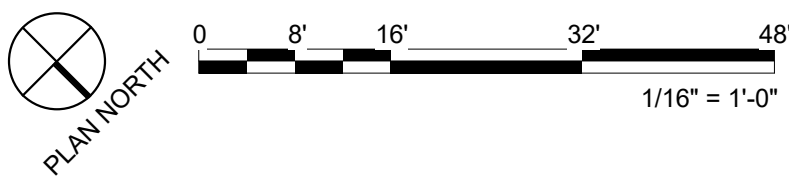
KEY NOTES:

- 01 DEMOLISH EXISTING 12" STORM DRAINAGE PIPING AT LOCATION INDICATED ON PLAN. CUT, CAP
AND PREPARE REMAINING PIPING FOR NEW CONSTRUCTION.
- 02 DEMOLISH EXISTING 1 1/2" COLD WATER PIPING AT LOCATION INDICATED ON PLAN. CUT, CAP
AND PREPARE REMAINING PIPING FOR NEW CONSTRUCTION.
- 03 DEMOLISH EXISTING 4" SANITARY PIPING UP TO EXISTING SANITARY MAN HOLE. CUT, CAP AND
PREPARE REMAINING PIPING FOR NEW CONSTRUCTION.
- 04 EXCAVATE EXISTING SANITARY MAN HOLE AND PREPARE FOR RELOCATION. DEMOLISH
EXISTING SANITARY CONNECTIONS TO MAN HOLE.
- 05 DEMOLISH EXISTING 4" STORM DRAINAGE PIPING AT LOCATION INDICATED ON PLAN. CAP AND
ABANDON THE REMAINING PIPING IN PLACE.



1 PLUMBING SITE PLAN - DEMOLITION
1/16" = 1'-0"

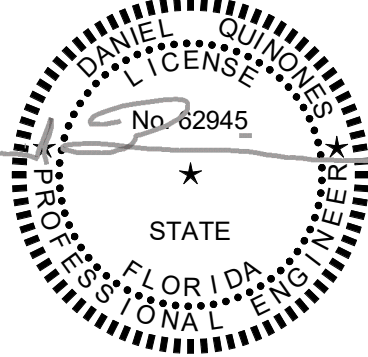
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PLUMBING SITE
PLAN - NEW

DRAWING NO.

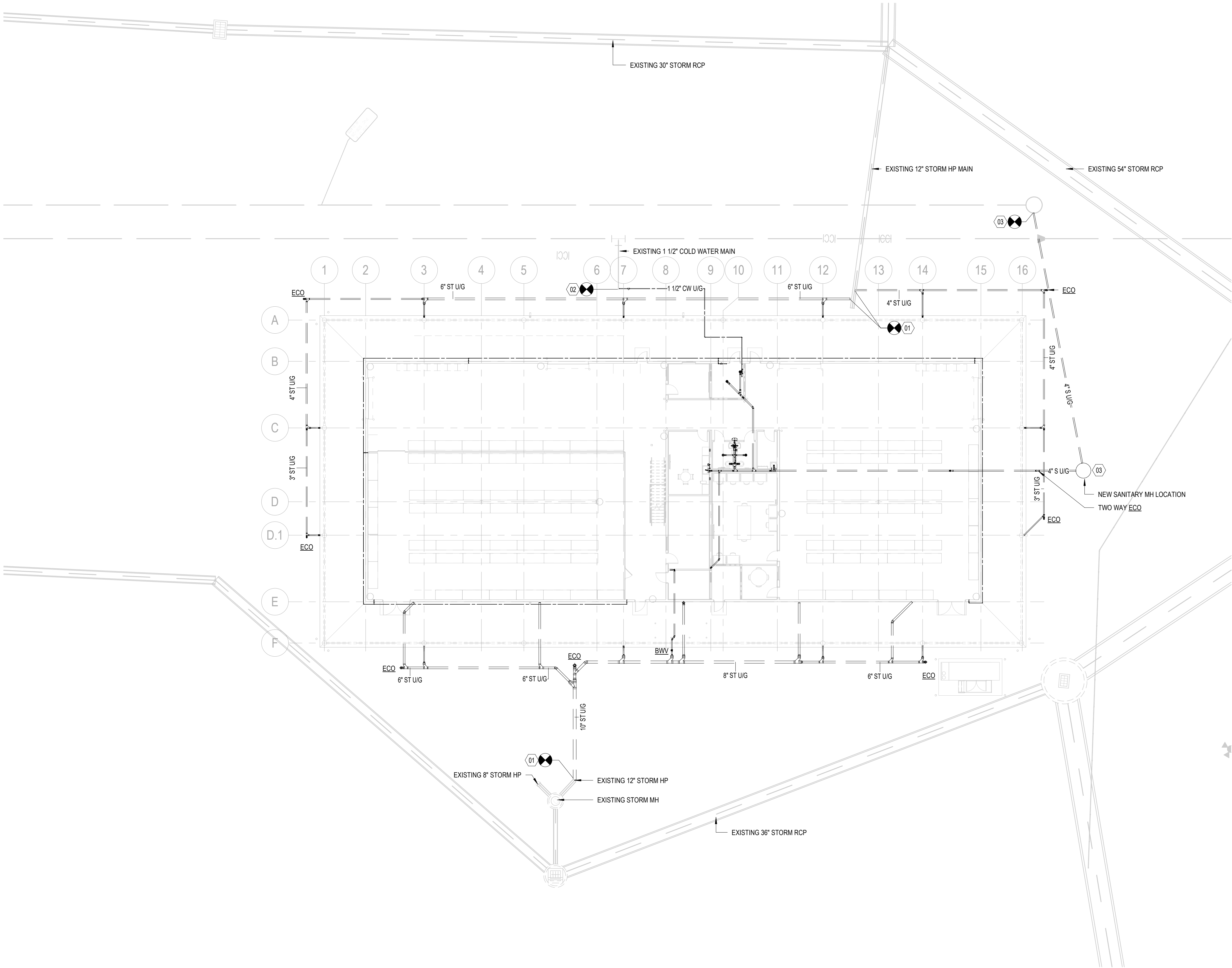
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GENERAL NOTES:

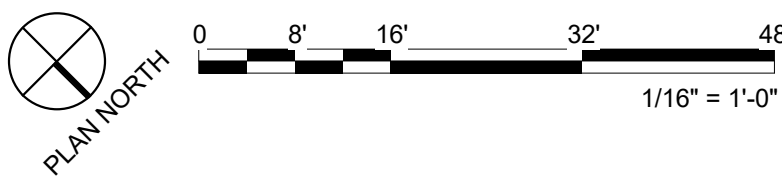
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KEY NOTES:

01 CONNECT NEW STORM DRAINAGE PIPING TO EXISTING SITE STORM DRAINAGE STRUCTURE AT
LOCATIONS INDICATED ON PLAN.
02 CONNECT NEW DOMESTIC COLD WATER PIPING TO EXISTING SITE DOMESTIC COLD WATER
MAIN AT LOCATION INDICATED ON PLAN.
03 RELOCATE EXISTING SANITARY MANHOLE TO LOCATION INDICATED ON PLAN.
04 CONNECT NEW 4" SANITARY SEWER PIPING TO EXISTING SITE SANITARY DRAINAGE STRUCTURE
AT LOCATION INDICATED ON PLAN.



1 PLUMBING SITE PLAN
1/16" = 1'-0"



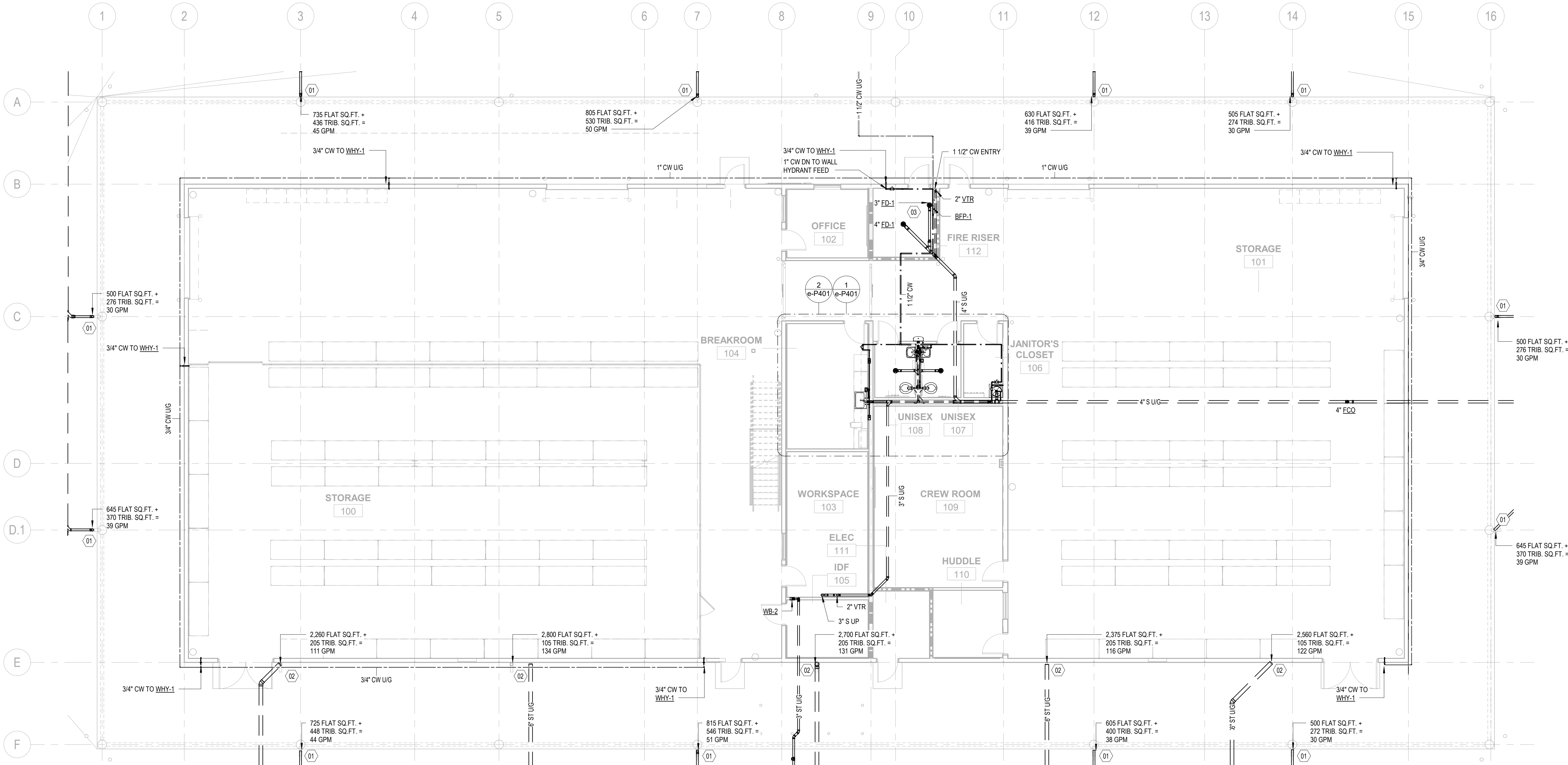
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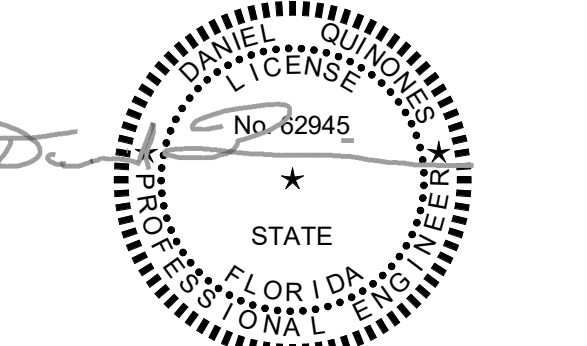
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ISC STORES WAREHOUSE
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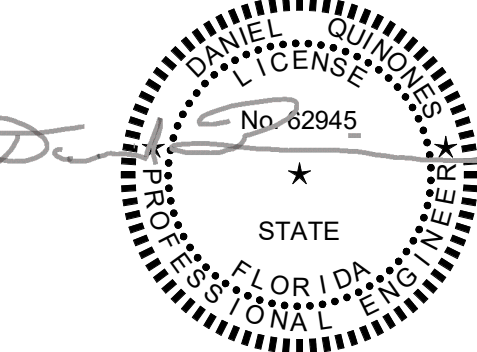
FIRST FLOOR
PLUMBING PLAN

DRAWING NO.
e-P101

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PROJECT NUMBER
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DATE

03/15/26

TITLE

MEZZANINE
PLUMBING PLAN

DRAWING NO.

e-P102

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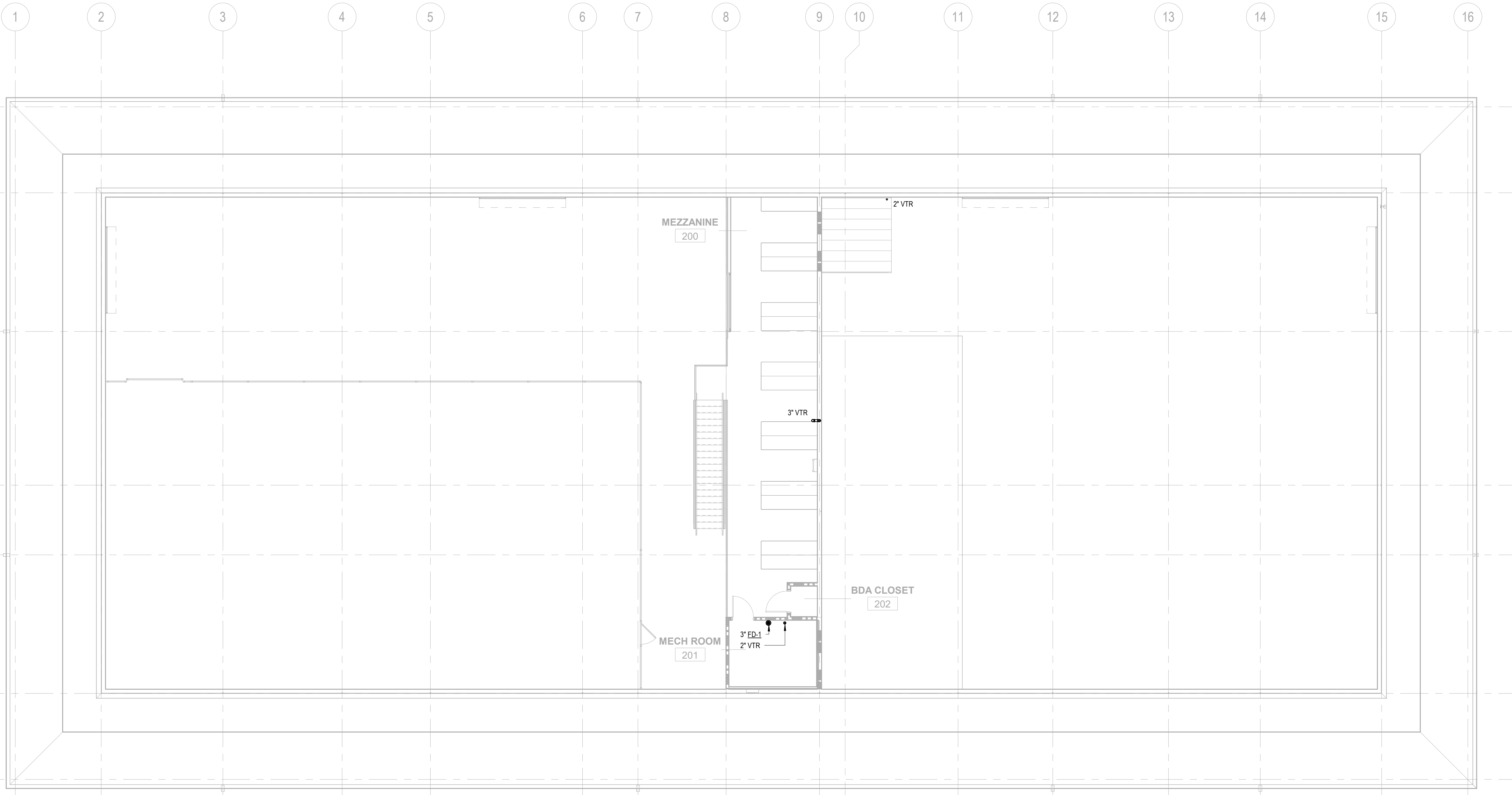
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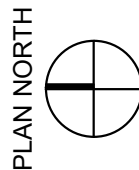
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1 MEZZANINE LEVEL PLUMBING PLAN
1/8" = 1'-0"



1

2

3

4

5

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FIRST FLOOR GRAVITY ENLARGED
PLAN

SCALE: 1/4" = 1'-0"

1
e-P101 e-P401
1" V UP

FIRST FLOOR PRESSURE ENLARGED
PLAN

SCALE: 1/4" = 1'-0"

2
e-P101 e-P401



KEY NOTES:

- 01 ROUTE 1/2" COLD WATER PIPING TO SERVE INSTANTANEOUS WATER HEATER. ROUTE 1/2" HOT WATER PIPING FROM INSTANTANEOUS WATER HEATER TO SERVE BACK TO BACK LAVATORIES.
- 02 ROUTE 3/4" COLD WATER PIPING TO SERVE WATER HEATER. ROUTE 3/4" HOT WATER PIPING UP FROM WATER HEATER TO SERVE MOP SINK AND BREAKROOM SINK. REFER TO PLUMBING DETAILS FOR FURTHER INFORMATION.
- 03 PROVIDE WATTS SD-2 BACKFLOW PREVENTER ON COLD WATER PIPING PRIOR TO CONNECTION TO WATER SUPPLY BOX.
- 04 PROVIDE WATERLESS TRAP SEAL DEVICE IN FLOOR DRAIN PTRAP.
- 05 ROUTE 1/2" COLD WATER PIPING TO SERVE INSTANTANEOUS WATER HEATER. ROUTE 1/2" HOT WATER PIPING FROM INSTANTANEOUS WATER HEATER TO SERVE BREAKROOM SINK.



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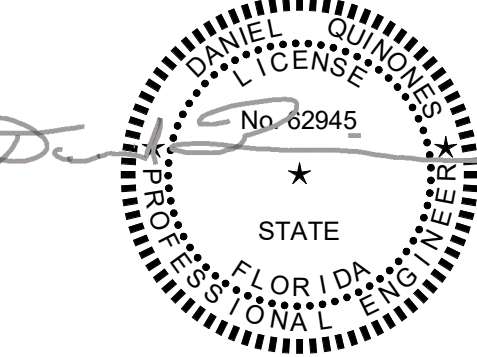
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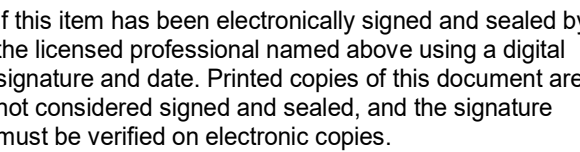
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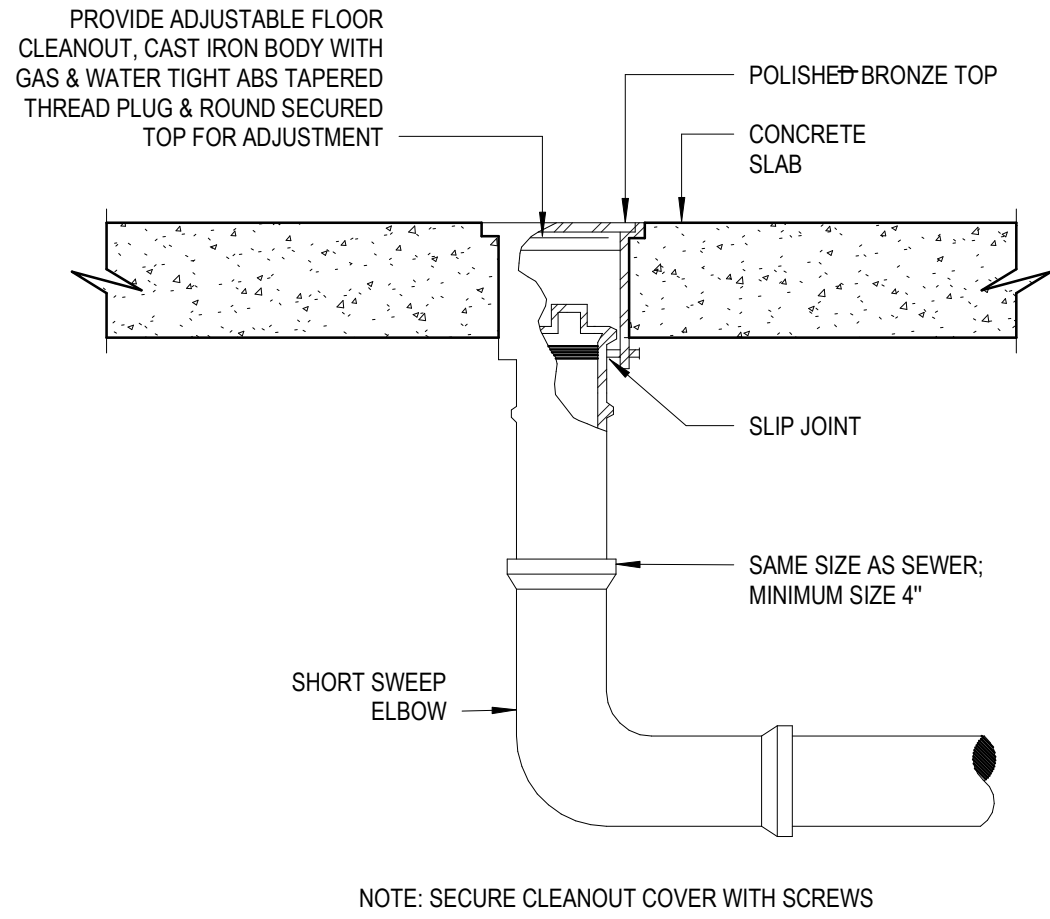
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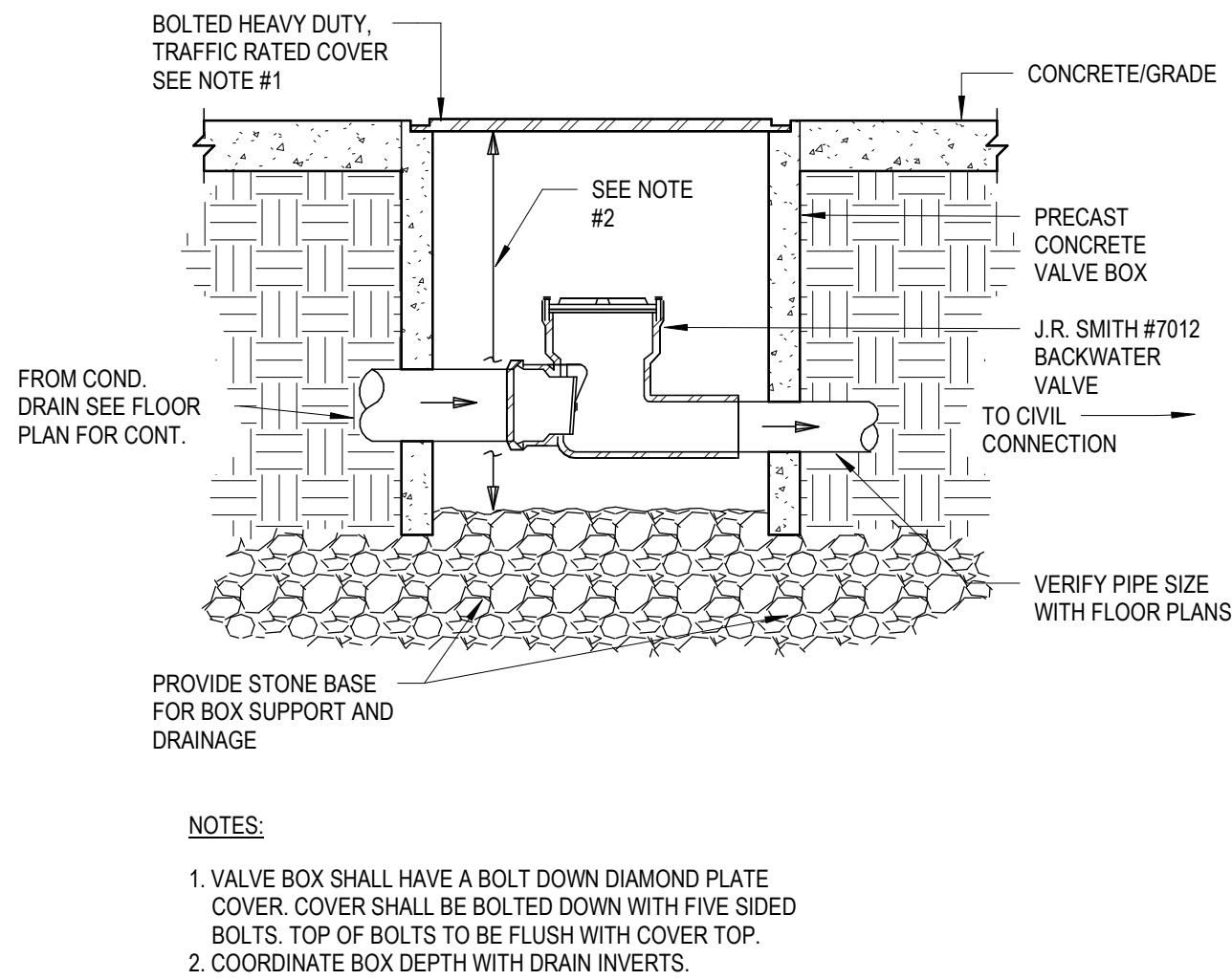


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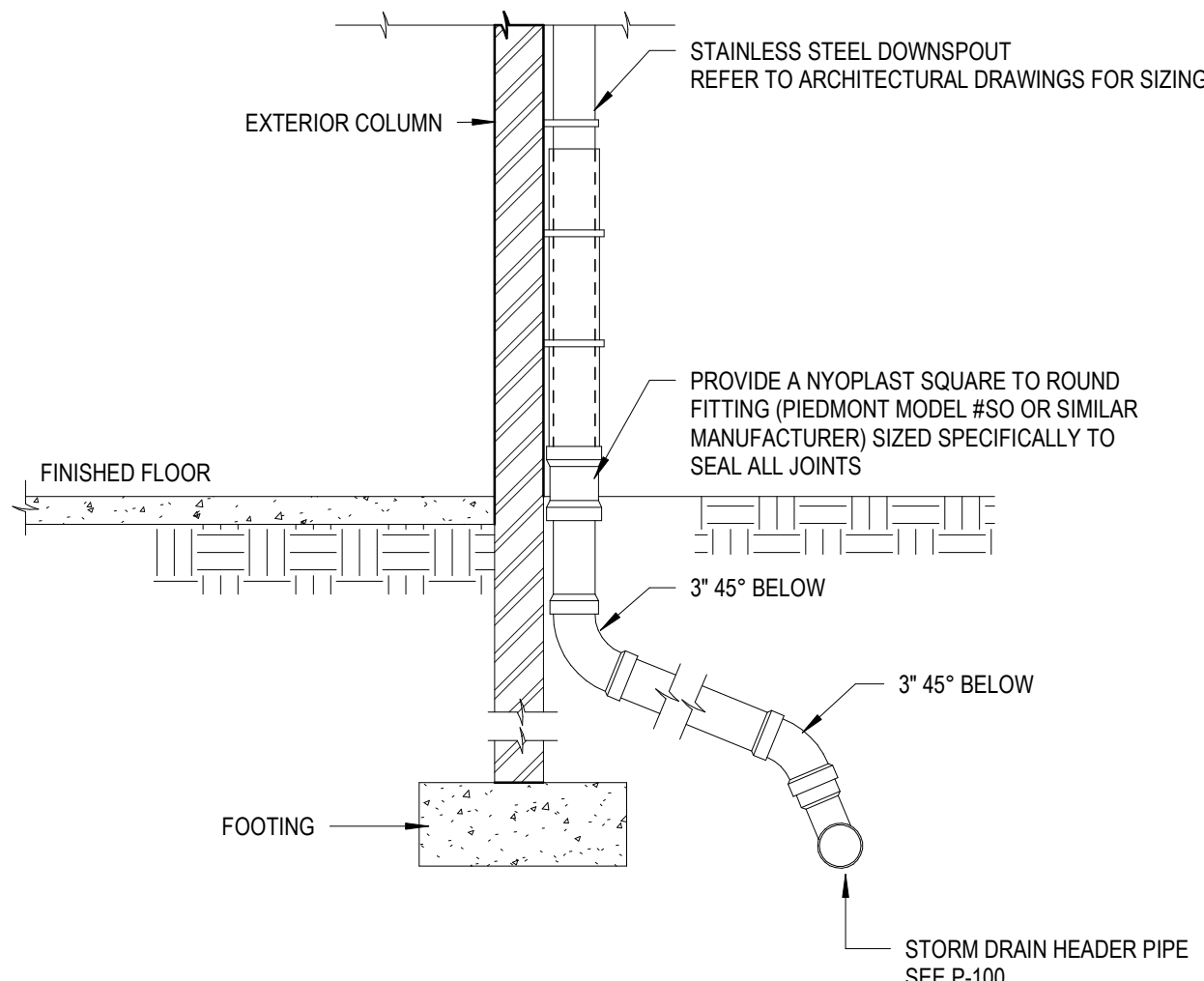


INTERIOR 1-WAY FLOOR CLEANOUT DETAIL



BACKWATER VALVE DETAIL

NTS

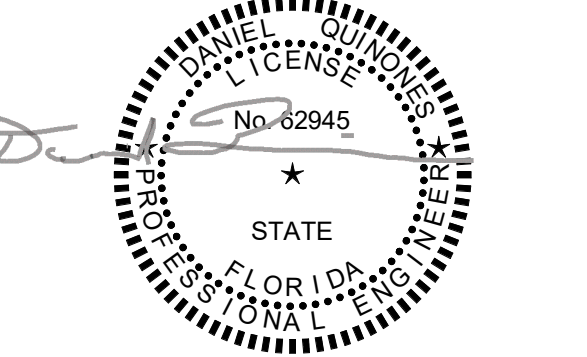


DOWNSPOUT CONNECTION 3"

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PLUMBING
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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL NO.	TYPE	MATERIAL	WASTE	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET (ADA ACCESSIBLE)	KOHLER	K-96057	FLUSH VALVE FLOOR MOUNTED	VITREOUS CHINA	4"	2"	1 1/2"	---	FLOOR MOUNTED AT ADA HEIGHT 1.28 GALLONS PER FLUSHING CYCLE. VITREOUS CHINA BOWL, 1-1/2" TOP SPUD. FLUSH VALVE: SLOAN -- ROYAL 111, EXPOSED, MANUAL FLUSH OPERATION, DIAPHRAGM TYPE, CHROME PLATED, HIGH BACK PRESSURE VACUUM BREAKER AND ADJUSTABLE TAILPIECE. SEAT: KOHLER MODEL STRONGHOLD K-4731-SC WHITE PLASTIC, ELONGATED SHAPE, OPEN FRONT, LESS COVER.
L-1	LAVATORY - WALL HUNG (ADA ACCESSIBLE)	KOHLER	K-2031-0	WALL HUNG	VITREOUS CHINA	1 1/2"	1 1/2"	1/2"	1/2"	ACCESSIBLE WALL HUNG 20"x18", VITREOUS CHINA, SINGLE HOLE WITH OVERFLOW, DRILLED FOR CONCEALED CARRIER. FAUCET: PFISTER LADERA MODEL #LF-042-LGRS, METAL CONSTRUCTION, 1.2 GPM. SINGLE HOLE, MANUAL OPERATION. PROVIDE MCGUIRE STRAINER/P-TRAP AND SUPPLIES 155A/8902 AND 2165CC. PROVIDE TRAP AND SUPPLY INSULATION KIT. CARRIER: ZURN Z1231, DURA-COATED STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, CONCEAL ARMS AND MOUNTING FASTENERS.
BF-1	ELECTRIC BOTTLE FILLING STATION -ADA ACCESSIBLE	ELKAY	LZWSSM	WALL MOUNTED	---	1 1/2"	1 1/2"	1/2"	---	UNIT SHALL INCLUDE AN ELECTRIC WATER COOLER BOTTLE FILLING STATION. BOTTLE FILLING SHALL INCLUDE AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION AND 20 SECOND SHUT-OFF TIMER. PROVIDE MCGUIRE P-TRAP AND SUPPLIES 8902 AND 158LK. 115 VOLTS, 60Hz, 1 FULL LOAD AMPS.
WHY-1	WALL HYDRANT	ZURN	Z1332-EZ	WALL MOUNTED	---	---	---	3/4"	---	ENCASED MODERATE CLIMATE WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER, 3/4" HOSE THREAD OUTLET SPOUT, LOOSE KEY, ALL POLISHED CHROME BRONZE BODY.
MS-1	MOP SINK	FIAT	MSB 2424	FLOOR MOUNTED	MOLDED STONE	3"	1 1/2"	3/4"	3/4"	FLOOR MOUNTED MOLDED STONE MOP SERVICE BASIN, WHITE. 10" HIGH WALLS WITH 1" WIDE SHOULDERS, COMBINATION DOME STRAINER AND STAINLESS STEEL LINT BASKET. FAUCET: FIAT MODEL NO. 830 AA WALL MOUNTED SERVICE FAUCET CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, RAIL HOOK AND 3/4" THREADED HOSE SPOUT
SK-1	SINK	ELKAY	ELUHAD211555	UNDERMOUNT	---	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, UNDERMOUNT, TYPE 304 18 STAINLESS STEEL, 23-1/2"x18-1/4"x5 3/8" DEEP. SURFACES SHALL BE POLISHED TO HIGH LUSTER FINISH. PROVIDE CRUMB CUP STRAINER. FAUCET: KOHLER MODEL K-R721510-SD-VS - MANUAL FAUCET. DO NOT PROVIDE COUNTER TOP SOAP DISPENSER, PROVIDE MCGUIRE STRAINER/P-TRAP AND SUPPLIES 151A/8912 AND 2165CC.
WB-1	ICE MAKER / WATER SUPPLY BOX W/SHUT-OFF VALVE	OATEY	PART NO. 39151	---	---	--	---	1/2"	---	HIGH IMPACT POLYSTYRENE, 2 SUPPORT BRACKETS, SNAP-ON FACEPLATE FRAME, ACCOMMODATES UP TO 1" DRYWALL WITH 1/4 TURN SHUT-OFF VALVE
WB-2	CONDENSATE WALL BOX W/FIXED AIR GAP	ZURN	PART NO. 38550	WALL MOUNTED	---	1 1/2"	1 1/2"	-	---	HIGH IMPACT POLYSTYRENE, 2 SUPPORT BRACKETS, SNAP-ON FACEPLATE FRAME, ACCOMMODATES UP TO 1" DRYWALL WITH ZURN Z-1024 FIXED AIR GAP, DURA COATED CAST IRON BODY WITH SLIP JOINT INLET AND NPT OUTLET. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT.

DRAINAGE SPECIALTIES AND CONNECTIONS SCHEDULE

MARK	SPECIALTY	MANUFACTURER	MODEL NO.	TYPE	MATERIAL	STYLE	SIZE	REMARKS
FD-1	FLOOR DRAIN (FINISHED AREA)	ZURN	Z415B	NO HUB OR NEO-LOCK	CAST IRON/ NICKEL BRONZE TOP	POLISHED ROUND TOP	PER DWGS.	COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE TYPE "B" NICKEL BRONZE STRAINER, 5 7/16" ROUND TOP, VANDAL PROOF. PROVIDE TRAP SEAL DEVICE.
FD-2	FLOOR DRAIN (MECHANICAL ROOM)	ZURN	Z-508-P-Y-VP	NO HUB OR NEO-LOCK	CAST IRON/ NICKEL BRONZE TOP	POLISHED ROUND TOP	PER DWGS.	COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE TYPE NICKEL BRONZE STRAINER, 9" ROUND TOP, VANDAL PROOF. PROVIDE TRAP SEAL DEVICE.
CD-1	CONDENSATE DRAIN	ZURN	Z415-I-U-V	NO HUB OR NEO-LOCK	CAST IRON/ NICKEL BRONZE TOP	POLISHED ROUND TOP	PER DWGS.	COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE "Y" POLISHED, 5 7/16" ROUND TOP, NICKEL BRONZE STRAINER WITH 2" RAISED LIP AND INTEGRAL BACKWATER VALVE.
BWV	BACK WATER VALVE	PLASTIC ODDITIES	PBF380B	NO HUB	PVC		PER DWGS.	SCHEDULE 40, NON-CORROSIVE FLEXIBLE PVC FLAPPER SEAL, SECURED ACCESS COVER WITH THREADED METAL INSERTS

INSTANTANEOUS WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	TOTAL KW	ACTIVATION GPM	SIZE (L"xW"xH")	VOLTS/PHASE/HERTZ	NOTES
IWH-1	EEMAX	SPEX8208T ML	8.3	0.2	5.25' x 3" x 9.73"	208/1/60	FOR KITCHEN SINK USAGE ON 208V POWER. 42° TEMP RISE AT 1.5 GPM.

ELECTRIC WATER HEATER SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL	LOCATION	STORAGE (GALLONS)	SYSTEM STORAGE (TEMP °F)	RECOVERY (GPH) @ 80°F	TOTAL KW	HEATER SIZE (D"xH")	ELECTRICAL			NOTES
										VOLTS	PHASE	HZ	
EWH-1	ELECTRIC	A.O. SMITH	DEL-10	JANITORS CLOSET	10	208	15	2.5	(22" x 43-1/4")	208	1	60	1,2,3
NOTES: 1. ROUTE T&P VALVE DISCHARGE TO MOP SINK. INSULATE ALL HOT WATER AND LABEL PER SPECIFICATIONS. 2. PROVIDE AND INSTALL THERMAL EXPANSION TANK AND SET STORAGE TEMPERATURE TO 140°F AND OUTLET TEMPERATURE AT 110°. 3. SEE ELECTRIC WATER HEATER DETAIL ON e-P501 FOR PIPING ARRANGEMENT.													

EXPANSION TANK SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL	LOCATION	TOTAL VOLUME (GALLONS)	MAX. ACCEPTANCE (GALLONS)	SYSTEM CONNECTION (INCH)	BASIN SIZE (D"xH")	NOTES
ET-1	INLINE	WATTS	PLT-5	JANITORS CLOSET	2.1	1.48	3/4"	8"x11"	SEE DETAIL 1 ON SHEET E-P501.

CLEANOUT SCHEDULE

CLEANOUT APPLICATION	TYPE	ZURN	JOSAM	J.R. SMITH
FINISH CONCRETE FLOOR (CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)	ROUND SQUARE	ZN-1400-IC-BP ZN-1400-IC-BP-T	55000-2-X 55000-2-SQ-X	4228-C 4048-C
FINISH WALL (CAST IRON BODY, BRONZE PLUG, STAINLESS STEEL COVER)	ROUND	ZN-1446-BP	58910-19 & 58600 (COVER)	4532-S
EXPOSED PIPING (CAST IRON BODY, BRONZE PLUG)	HORIZONTAL VERTICAL	ZN-1440 ZN-1445	58900 58910	4420-C 4512-S
TILED AREA (CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)	ROUND SQUARE	ZN-1400-IC-BP-X ZN-1400-IC-BP-T	5500-2-12-X 55000-2-12-SQ-X	4168-C 4168-C
CARPETED AREA (CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)	ROUND	ZN-1400-IC-BP-CF	55000-2-13-X	4028C-Y
TERRAZZO AREA (CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)	ROUND SQUARE	ZN-1400-IC-BP-Z ---	55000-2-13-X 55000-2-13-SQ-X	4188-C 4208-C

WATER HAMMER ARRESTOR SCHEDULE

ARRESTOR SIZE (WHA)	WATER SUPPLY FIXTURE UNITS	PDI STD WH 201
1/2"	1-11	PDI-A
3/4"	12-32	PDI-B
1"	33-60	PDI-C
NOTE: ALL ARRESTORS SHALL BE INSTALLED PER PDI (PLUMBING AND DRAINAGE INSTITUTE) STANDARD PDI-WH201 (2006) FOR SIZING AND PLACEMENT.		