

WSU TRI-CITIES CIC BUILDING - NEW GENDER INCLUSIVE RESTROOMS
CONSOLIDATED SERVICES BUILDING 2770, CRIMSON WAY, RICHLAND, WA 99354

ABBREVIATIONS

[illegible]

CONTACTS

ARCULUS PLC

Sieve Mallory, AIA, NCARB
5822 Yellowstone Ave.
Kennewick, WA 99336
PH: 509.783.0123

Facilities Engineering & Technical

Services, PLLC
Steve Potratz, PE
2949 Clyde Road
Moscow, ID 83843
208.310.1407

CODE STUDY

SCOPE

REMODEL 1/4 SF OF THE SOUTH HALF OF THE EXISTING CIC SERVER ROOM ON THE SECOND FLOOR OF THE CIC INTO A GENDER INCLUSIVE 2-STALL RESTROOM (No change of square footage)

Occupancy Group: B, A3

Construction Type: II-1/IIr

Building Area: 73,945 (existing) No change

Parcel # _____

Use: **Public Building, parking spaces 377 + 8 disabled** - No change

Legal Description: 20+ acres

Flood Hazard: none

Zone: **PPF - Public Reserve**

Remodel 134 sqft. of existing space

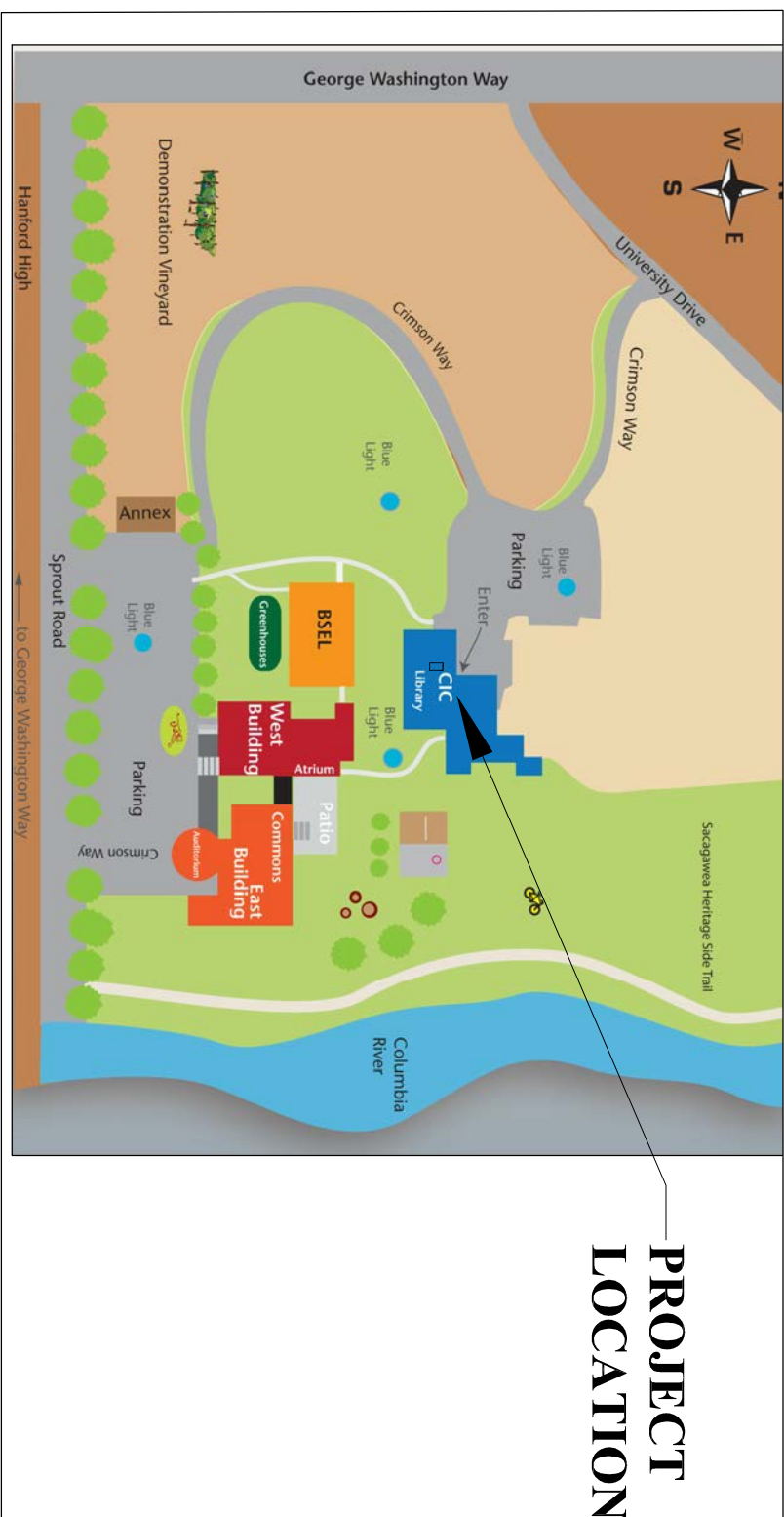
Call-Before-You-Dig: 1-800-424-5555

Codes: Latest additions of the **IBC** and **W.S. Amendments, UPC, IFC, UMC, ANS/A171.1** and the **NEC**.

SHEET INDEX

GENERAL

G001	TITLE SHEET, CODE NOTES, ABBREVIATIONS AND LEGEND
ARCHITECTURAL	
A101	DEMOLITION AND FLOOR PLANS
A102	REFLECTED CEILING PLAN, INTERIOR ELEVATIONS AND SCHEDULE
A103	SECTIONS AND DETAILS
MECHANICAL	
M10	FIRE PROTECTION CHANGES
M11	PLANS AND DETAILS
M12	PLANS AND DETAILS
M13	PLANS AND DETAILS
ELECTRICAL	
E101	DEMOLITION AND FLOOR PLANS
E102	PANEL SCHEDULE

-PROJECT
LOCATION

CAMPUS MAP
SCALE: N.T.S.

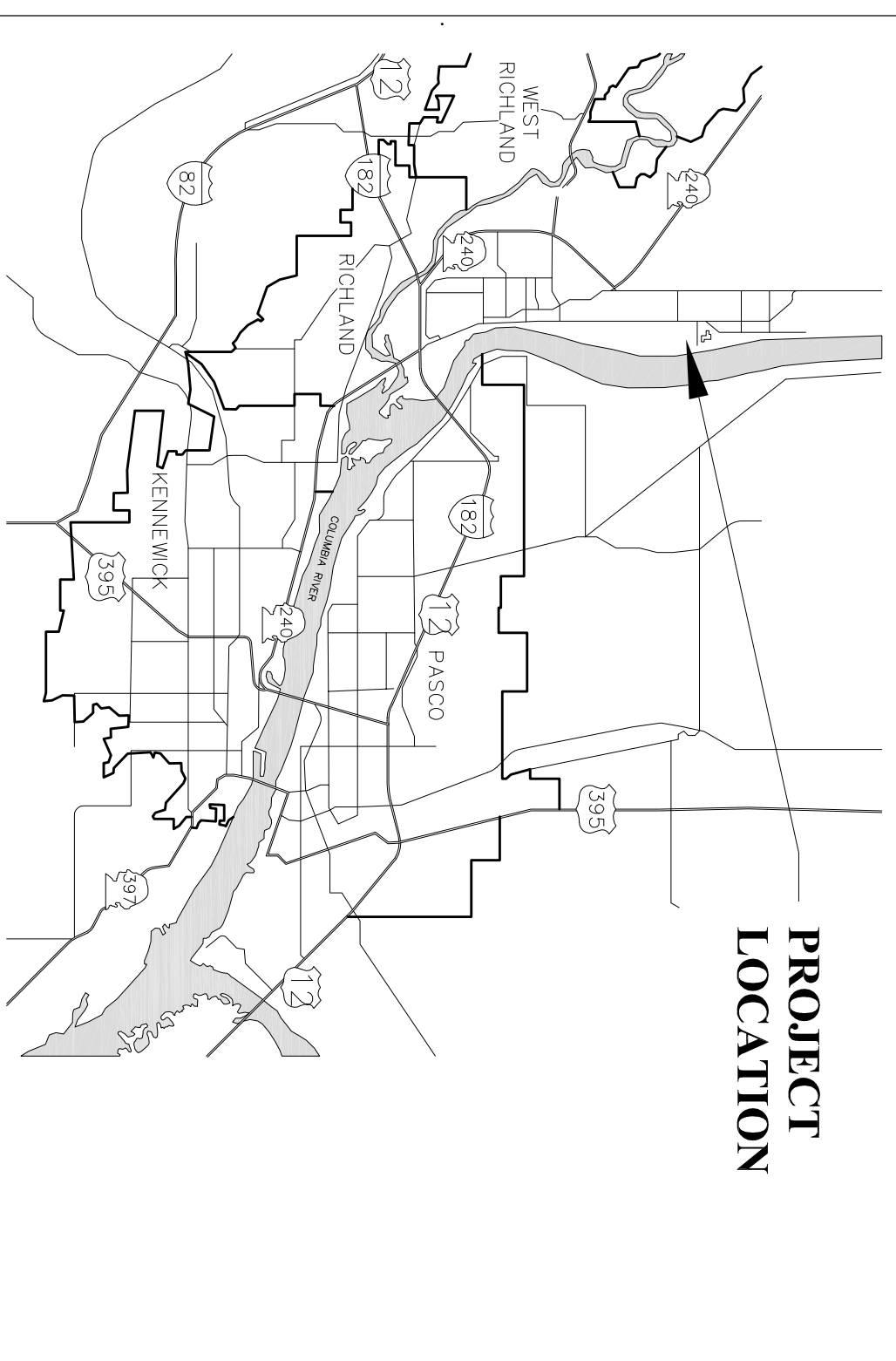


LEGEND

DETAIL TAG		OFFICE		ROOM NAME & NUMBER		STROBE AND HORN	
				SMOKE DETECTOR	POWER DISCONNECT	JUNCTION BOX	THERMOSTAT
				FURNITURE OR EQUIPMENT TAG			
				WALL TAG			
				FLOOR TRANSITION			
				FLUORESCENT FIXTURE SURFACE MOUNTED			
				SPRINKLER - SEE MECH.			
				CONSTRUCTION NOTE			
				DEMOLITION NOTE			
				KEY NOTE			
				REVISION TAG			

BID_SET

PROJECT LOCATION



VICINITY MAP



CITY OF RICHLAND SIGN-OFF

REV.	APP'D.	DATE	REVISION DESCRIPTION

WASHINGTON STATE
UNIVERSITY

Capital Planning and Development PH 509-335-5571
225 SE Idaho Street FAX 509-335-6875
Pullman, Wa. 99164-3611

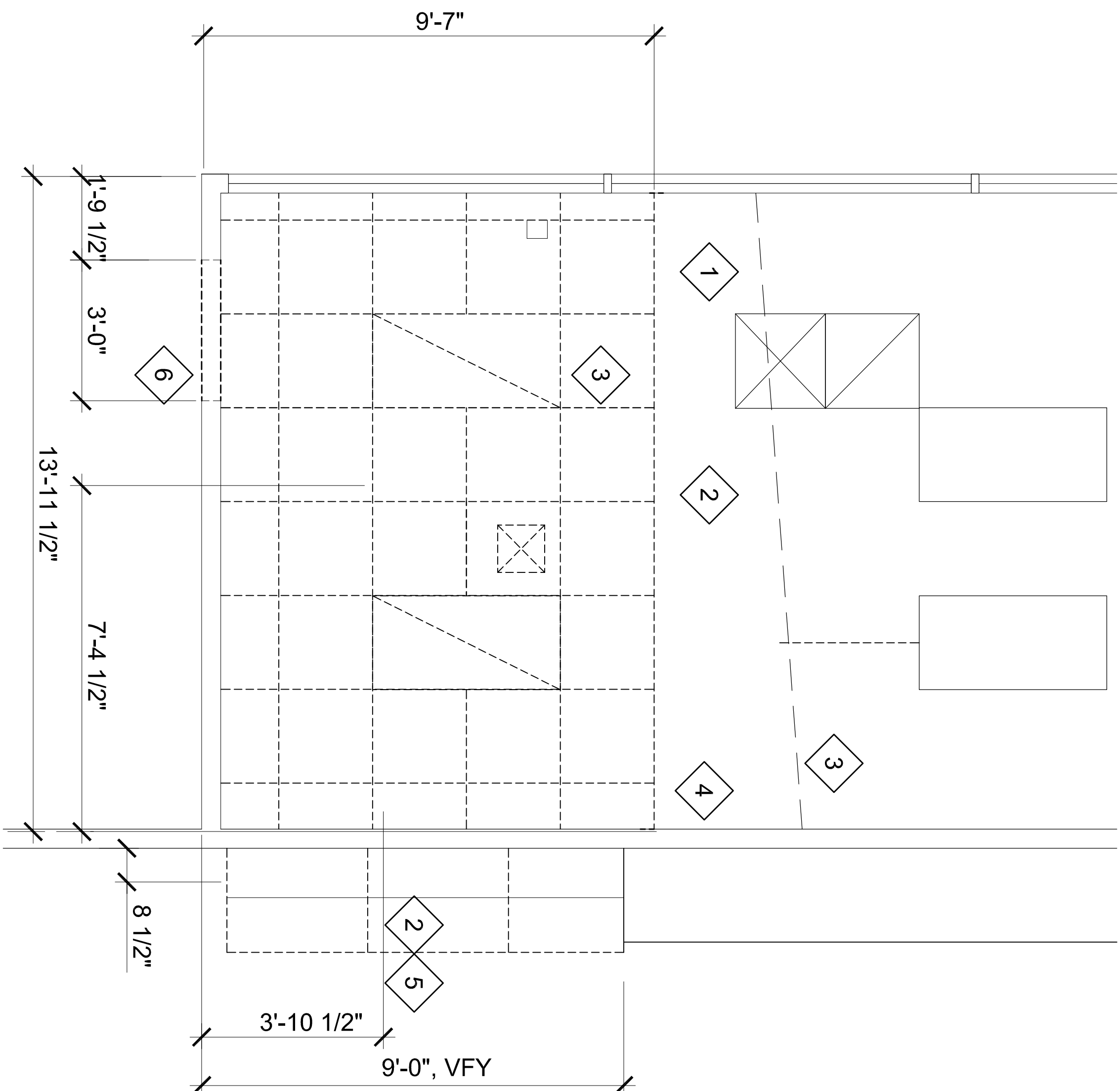
Tri-Cities CIC Building Create New Gender Inclusive Bathroom

TITLE SHEET, CODE NOTES, APPREVIATIONS AND LEGEND



DESIGN	<u>SMM</u>
DRAWN	<u>SMM</u>
APPD	_____
DATE	<u>4/10/23</u>
F.F. NO.	<u>1C01519</u>
FILE NO.	<u>9512-G-016</u>

G-001		
SHEET	1	OF 10



DEMOLITION PLAN

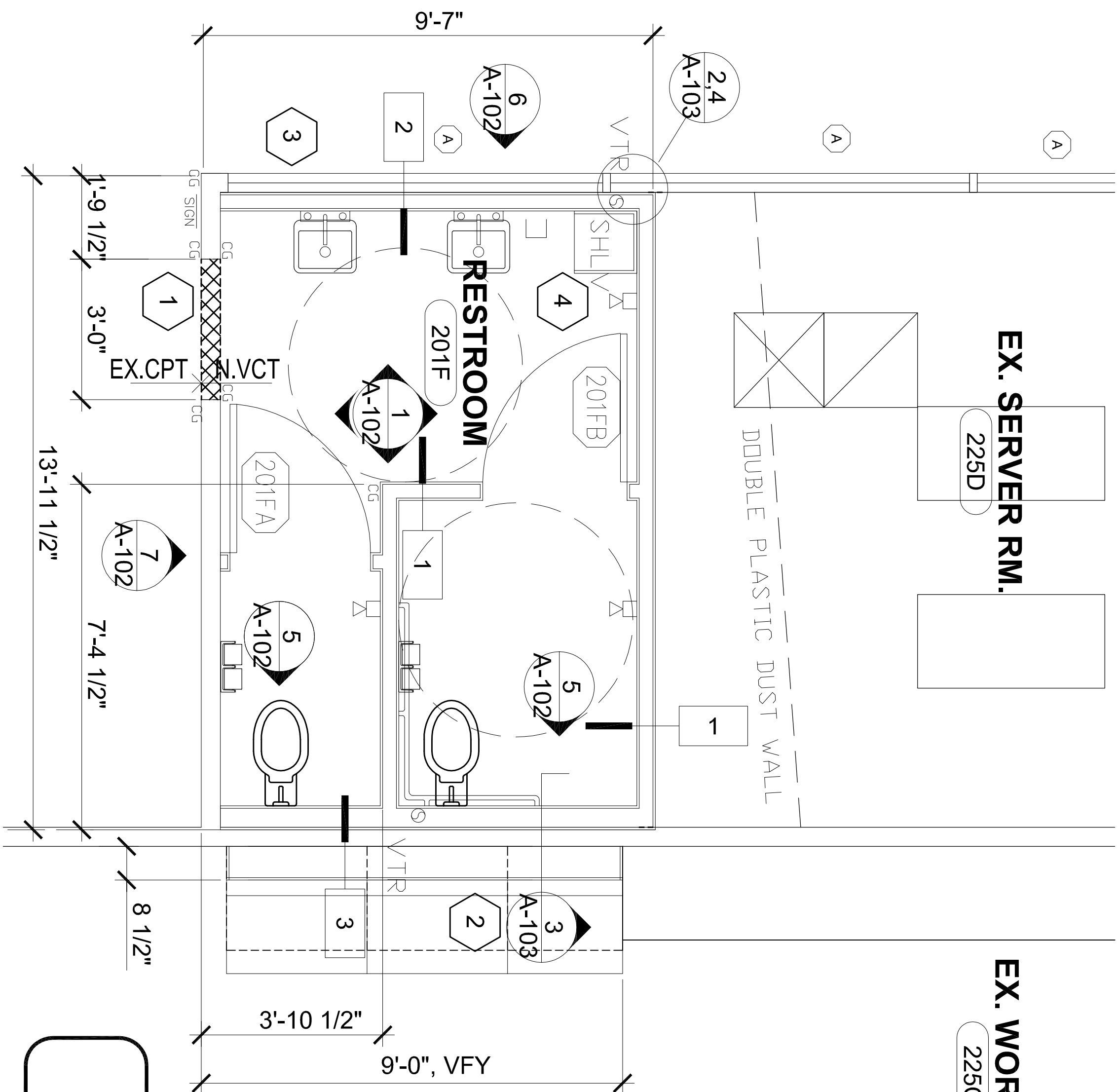
SCALE: 1/2"=1'-0"

DEMOLITION NOTES

- 1 WHERE WALLS ARE FURRED, REMOVE THE EXISTING LAYER OF GWB TO STUDS. SEE CONSTRUCTION PLANS FOR LOCATIONS.
- 2 PROTECT ADJACENT ROOM SURFACES FROM WORK IN THE AREAS. PATCH DAMAGED WALLS AND SURFACES AFTER WORK IS COMPLETE TO THE EXISTING CONDITION AFTER.
- 3 REMOVE CEILING GRID AND PANELS WHERE DASHED. REPAIR THE CEILING GRID AND REPLACE THE CEILING PANELS AT NEW WALL.
- 4 INSTALL A DOUBLE DUST CURTAIN TO PROTECT THE EXISTING SERVER ROOM AND EQUIPMENT. PROTECT THE SERVER AND AIR SYSTEM THAT FEEDS THE SERVER. COORDINATE WITH THE COMPUTER SYSTEMS MANAGER TO PROTECT THE EXISTING SPACE FROM ALL DUST AT THE WALLS, EXISTING SYSTEM AND CEILING WORK.
- 5 REMOVE AND RETAIN EXISTING CASEWORK FOR RE-INSTALLING AFTER THE BUMPOUT IS BUILT AND FINISHED. CAREFULLY REMOVE/CUT COUNTERTOP TO REMAIN OR GO WITH THE RELOCATED CASEWORK.
- 6 REMOVE EXISTING WALL SECTION AND RELINE OPENING INSTALL VCT TILE AT THRESHOLD. SEE DET. 5A103

GENERAL NOTES

1. CRITICAL: THE SUPERVISOR MUST COMMUNICATE ISSUES ASSOCIATED WITH ANY SERVER AND COMPUTER EQUIPMENT THAT MIGHT IMPACTED INCLUDING DUST PROTECTION OF THE EXISTING COMPUTER AND OTHER EQUIPMENT TO REMAIN IN THE VICINITY OF THE WORK, REVIEW THE INTEGRITY AND EFFECTIVENESS OF THE BARRIER TWICE A DAY DURING THE COURSE OF THE PROJECT.

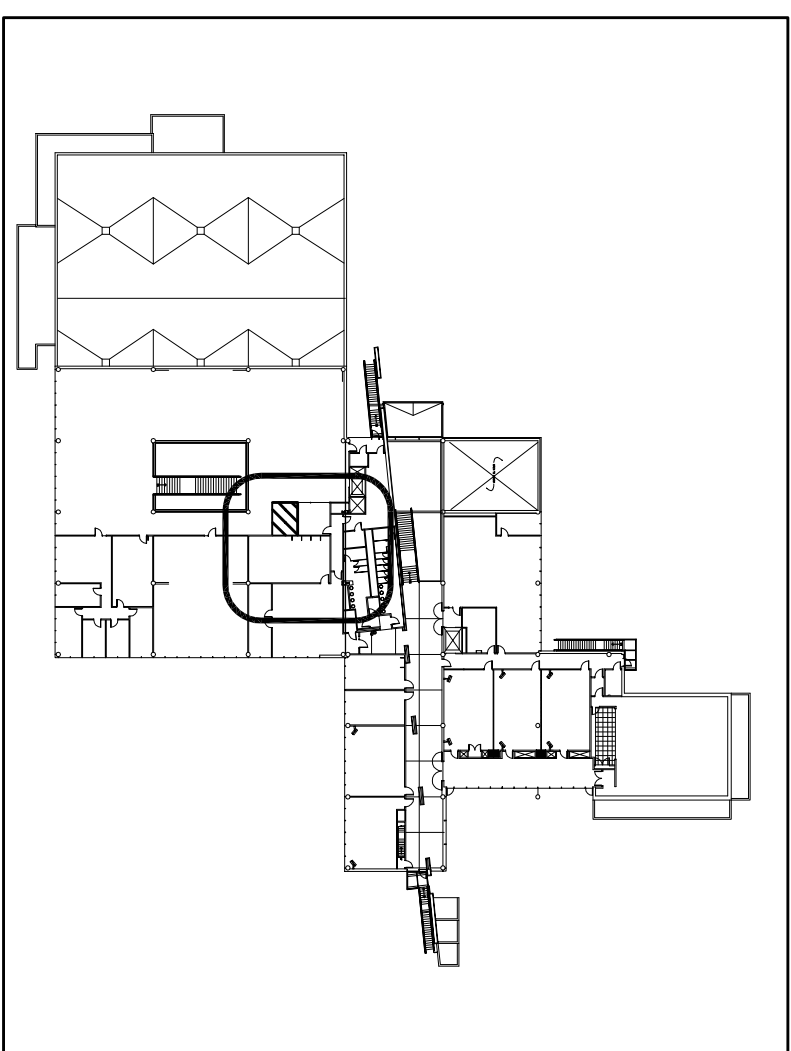


CONSTRUCTION PLAN

SCALE: 1/2"=1'-0"

CONSTRUCTION NOTES

1. REMOVE EXISTING WALL SECTION AND RELINE OPENING INSTALL VOT TILE AT THRESHOLD. SEE DET. 5A/103
2. 4" HIGH & 2" DEEP BUMPOUT TO ENCASE THE TOILET CARRIAGES. REMOVE AND REPLACE CASEWORK ON THE NEW BUMPOUT ADJUTED TO THE REMAINING CASEWORK. SEE WALL SECTION 2. SHT. A103. FINISH NEW GUMB BUMPOUT TO MATCH ADJACENT SURFACES. FINISH TOP AND SIDES OF CASEWORK WHERE THERE ARE NEWLY EXPOSED SPIEGES/ EDGES. AFTER REMOVING SHEETWORK ON THE TOILET ROOM SIDE REVEAL TOILET CARRIAGES FOR HT. IF THE CARRIAGE INTERFERES WITH THE EXISTING STUDY REMOVE ADJUT THAT PROVIDE THE STUDY AREA ACCESS TO THE CARRIAGE. REINTEGRATION TO THE NEXT ADJACENT STUDY THAT REMAINS. SEE SECTION 5A/103. 1" T-2 PLACES
3. INSERT 3 MEDIUM PACES OF PRESSANT ON THE SILL INSIDE THE WINDOW. PAINT THE GUMB ON THE WINDOW SIDE. SAW COLONIAL WHITE.
4. NEW BACKPACK SHELF CASEWORK - SEE DETAIL 11/A A103



LOCATION PLAN - 2ND FLOOR

SCALE: N.T.S.

REV.	APP'D.	DATE	REVISION DESCRIPTION



Capital Planning and Development
225 SE Idaho Street
Pullman, Wa. 99164-3611

PH 509-335-5571
FAX 509-335-6875

Tri-Cities CIC Building Create New Gender Inclusive Bathroom

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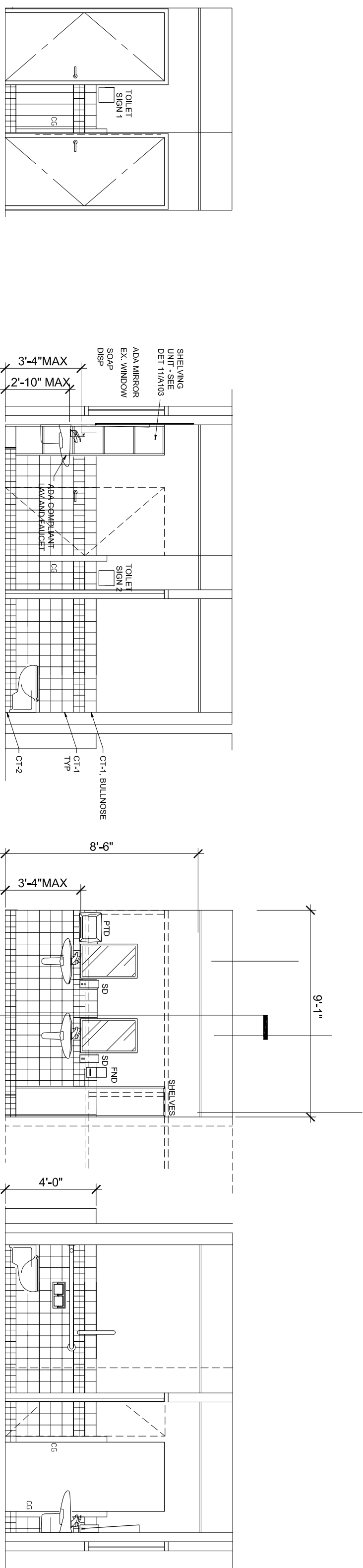
DEMOLITION AND FLOOR PLANS



DESIGN SMM
DRAWN SMM
APPD _____
DATE 4/10/23
F.F. NO. _____
FILE NO. 9512-G-016

A-101

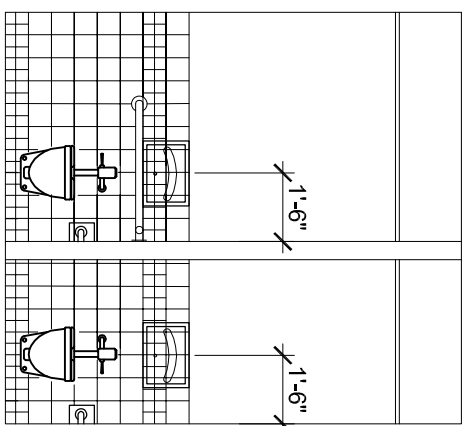
10



4
A-103

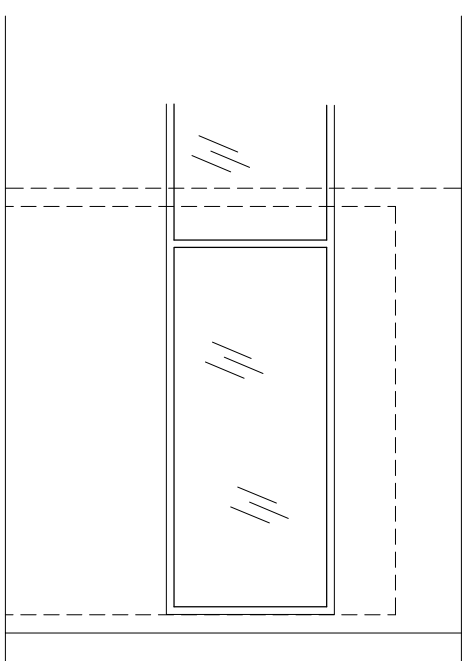
INTERIOR ELEVATIONS

1
A-102
SCALE: 1/4" = 1'-0"



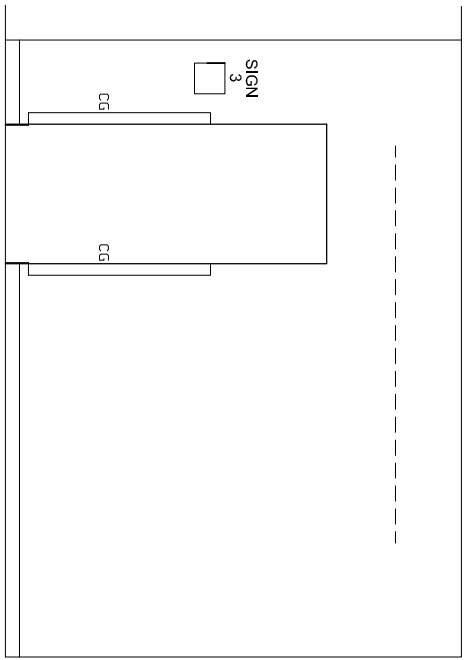
INTERIOR ELEVATION

5
A-102
SCALE: 1/4" = 1'-0"



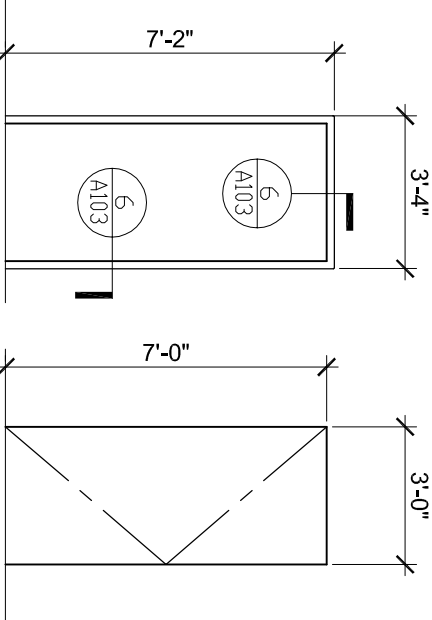
INTERIOR ELEVATION

6
A-102
SCALE: 1/4" = 1'-0"



INTERIOR ELEVATION

7
A-102
SCALE: 1/4" = 1'-0"



TYPE 1

TYPE 1

FINISH SCHEDULE

NUMBER	ROOM NAME	FLOOR	BASE	WALLS	CEILING	SPRINGS
220C	WORKROOM	EXIST.	4" RUB.	NORTH	P3	-
201F	STOCK ROOM	EX-CVT.	P3	P4	-	-
201F	RESTROOM	EX-CVT.	6" TILE	P1, T1, 2	P1, T1, 2	-
201FA	TOILET ROOM	EX-CVT.	6" TILE	P1, T1, 2	P1, T1, 2	-
201FB	TOILET ROOM-HOP	EX-CVT.	6" TILE	P1, T1, 2	P1, T1, 2	-
220D	EX. SERVER RM	EX-CVT.	4" RUB. SOUTH WALL	-	P3	-

1. MATCH EXISTING WALLS. P2 MATCH EXISTING RESTROOMS. P3 MATCH EXISTING RESTROOMS. P4 - WHITE BEHIND EX. WINDOW.
2. PATCHPOINT SCHEDULED WALLS SEAL NEW PENETRATIONS. AND ANY NEW EXPOSED CORNER AND OUTLETWORK.
3. PATCH AND PAINT EXISTING AND MODIFIED OR UNFILED WALLS. PLANT ENTIRE WALL WHERE REVISIONS ARE MADE.
4. TILE BASE AND EGGING TO MATCH EX. RESTROOM ROOM 211. COLORS AND PATTERN- SELECTED ROOM MATS STD. PALETTE.
5. MATCH EX. RUBBER BASE TO MATCH EX. RESTROOM ROOM 211. COLORS AND PATTERN- SELECTED ROOM MATS STD. PALETTE.
6. JOHNSONITE BLACK VINYL TRANSITION STRIPS BETWEEN DIFFERENT SURFACES AND WHERE INTERFACING WITH EXISTING SURFACING. TYP. SEE DETAILS.
7. SIGN THE GENDER RESTROOM AND EACH TOILET ROOM WITH ADA APPROVED SIGNAGE WITH BRaille TEXT (8 PLACES SHOWN ON ELEVATIONS).
8. PROVIDE SPACERS AND SEALANTS WHERE RESTROOM EQUIPMENT IS MOUNTED ON NON-COMP. FLOOR SURFACES.
9. PROVIDE SPACERS AND SEALANTS WHERE RESTROOM EQUIPMENT IS MOUNTED ON NON-COMP. FLOOR SURFACES.
10. RETAIN EXISTING CEILING GRID FOR SUPPORT OF THE NEW CEILING. IF ANY BRACK APPEARS TO DEFLECT GREATER THAN 1/160 WIRE TO ROOF DECK ABOVE.

WINDOW TYPE SCHEDULE

NO.	SIZE	TYPE	OPERATION	HEAD	JAMB	SILL	NOTES
A	7'-0"x2'-4"	EXIST.	FIXED	-	-	-	PROVIDE 3/8" RESISTANT FRAMES ON ENCLOSED WINDOW SILL CAVITY

DOOR SCHEDULE

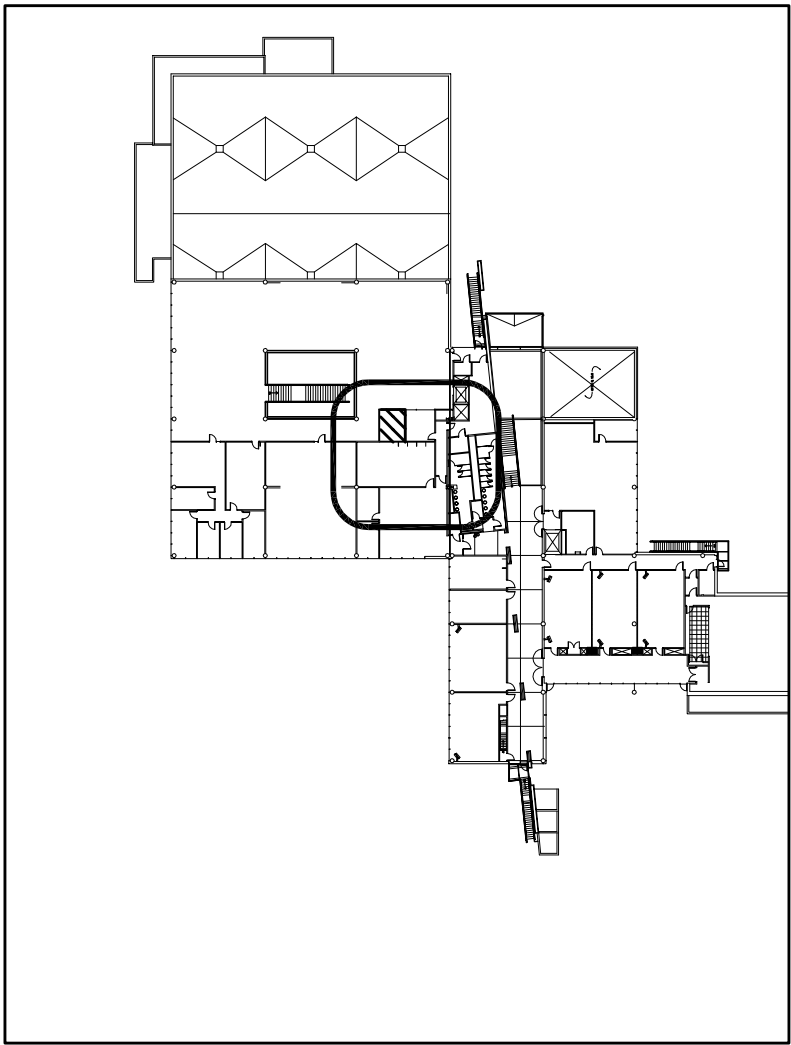
DOOR	FRAME	TYPE	DOOR TYPE	HEAD	JAMB	THRESHOLD	HARDWARE	REMARKS
201FA	3 1/2" METAL	1	9'-0" x 7'-0" TYP. S.C. W/O DOOR	6A103	6A103	-	-	1,2,3,4
201FB	3 1/2" METAL	1	9'-0" x 7'-0" TYP. S.C. W/O DOOR	6A103	6A103	-	-	1,2,3,4

1. KEY TO EXISTING SYSTEM. PROVIDE 4" X 6" COR. EX. LOCK TO OWNER. Door frame to be fast finished by vendor installing window door frame color.
2. W/O DOORS AND FRAMES TO BRICK PLAIN SLICE OR MATCH EX. WOOD SPECIES AND GRAIN. VIT. W/ OWNER.
3. W/O DOORS TO BE PREPARED AND FINISHED WITH STD. POLYURETHANE FINISH BY MFR.
4. W/O DOORS - 1/4" UNDERCUT MAX.

DOOR HARDWARE

1. Handle: Std.
2. Lock: Std.
3. Latch: Std.
4. Latch: Std.
5. Latch: Std.
6. Latch: Std.
7. Latch: Std.
8. Latch: Std.
9. Latch: Std.
10. Latch: Std.

BID_SET



LOCATION PLAN - 2ND FLOOR
SCALE: N.T.S.



REGISTERED ARCHITECT
STATE OF WASHINGTON
5908



REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"

REV.	APP'D.	DATE	REVISION DESCRIPTION



Capital Planning and Development
225 SE Idaho Street
Pullman, WA. 99164-3611

PH 509-335-5571
FAX 509-335-6875

Tri-Cities CIC Building Create New Gender Inclusive Bathroom
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REFLECTED CEILING PLAN, INTERIOR ELEVATIONS AND SCHEDULE

DESIGN	SMM
DRAWN	SMM
APP'D	
DATE	4/10/23
F.F. NO.	
FILE NO.	9512-5-016

A-102

SHEET 3 OF 10

FILE: C:\Business\aa\Projects\2023-0004 - CIC Restroom\Drawings\E-101.dwg DATE: Apr/7/2023 1:48

GENERAL NOTES

- #12AWG, COPPER CONDUCTORS MINIMUM.
- 3/4" MINIMUM CONDUIT SIZE.
- NON METALLIC SHEATHED CABLE IS PERMITTED WHERE LEGAL BY CODE AND ALLOWED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- SURFACE MOUNTED CONDUIT IS NOT ACCEPTABLE IN FINISHED AREAS.
- ELECTRICAL SYSTEMS ARE TO BE INSTALLED COMPLETE AND FULLY OPERATIONAL WHETHER OR NOT EVERY INCIDENTAL COMPONENT IS SHOWN ON THESE PLANS.
- CONTRACTOR IS TO PAY FOR ALL PERMITS, FEES, AND INSPECTIONS.
- COORDINATE WORK WITH OTHER TRADES.
- NORTH ARROWS ARE NOT REPRESENTATIVE OF TRUE NORTH AND ARE APPROXIMATIONS ONLY.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, LAWS, ORDINANCES, ETC.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, 2017 EDITION.
- CONTRACTOR IS TO MAINTAIN A SET OF AS-BUILT DRAWINGS ON THE PROJECT SITE. MAKE UPDATES TO AS-BUILT DRAWINGS ON PROJECT SITE AS CHANGES AND MODIFICATIONS ARE MADE TO THE ORIGINAL CONSTRUCTION PLAN. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT/ENGINEER UPON FINAL PROJECT COMPLETION.
- ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
- ALL ELECTRICAL WORK IS TO BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- ELECTRICAL PLANS ARE GENERAL IN NATURE. ADJUST INSTALLATIONS DURING CONSTRUCTION TO REFLECT ACTUAL FIELD CONDITIONS.
- ELECTRICAL CONTRACTOR IS TO MAKE SITE VISITS AS NEEDED TO BECOME FAMILIAR WITH THE WORK PRIOR TO SUBMITTING FORMAL PRICING.
- ELECTRICAL EQUIPMENT IS TO BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) WHERE REQUIRED BY THE NEC. THE NRTL SHALL BE APPROVED BY THE STATE OF IDAHO.
- PRODUCT AND EQUIPMENT SUBMITTALS ARE TO BE MADE TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PRODUCT AND EQUIPMENT PURCHASES.
- INFORMATION CONTAINED IN THESE DRAWINGS WAS OBTAINED THROUGH HISTORICAL DRAWINGS AND AN ON-SITE REVIEW BY THE ENGINEER. 100% ACCURACY IS NOT GUARANTEED. CONTRACTOR IS TO FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO THE WORK AS NEEDED TO MEET PROJECT INTENT.
- PATCH AND FINISH TO MATCH SURROUNDING AREA ALL WALLS, FLOORS, CEILINGS, ETC., WHERE OPENINGS ARE LEFT AS A RESULT OF THIS WORK.
- ALL NEW AND REPLACEMENT 120V 15A AND 20A RECEPTACLES ARE TO BE TAMPER RESISTANT.
- MODIFICATION TO THE FIRE ALARM SYSTEM ARE TO BE DESIGNED, SIGNED, AND SEALED, BY A FIRE ALARM DESIGN PROFESSIONAL AND BE APPROVED BY THE LOCAL FIRE DISTRICT.

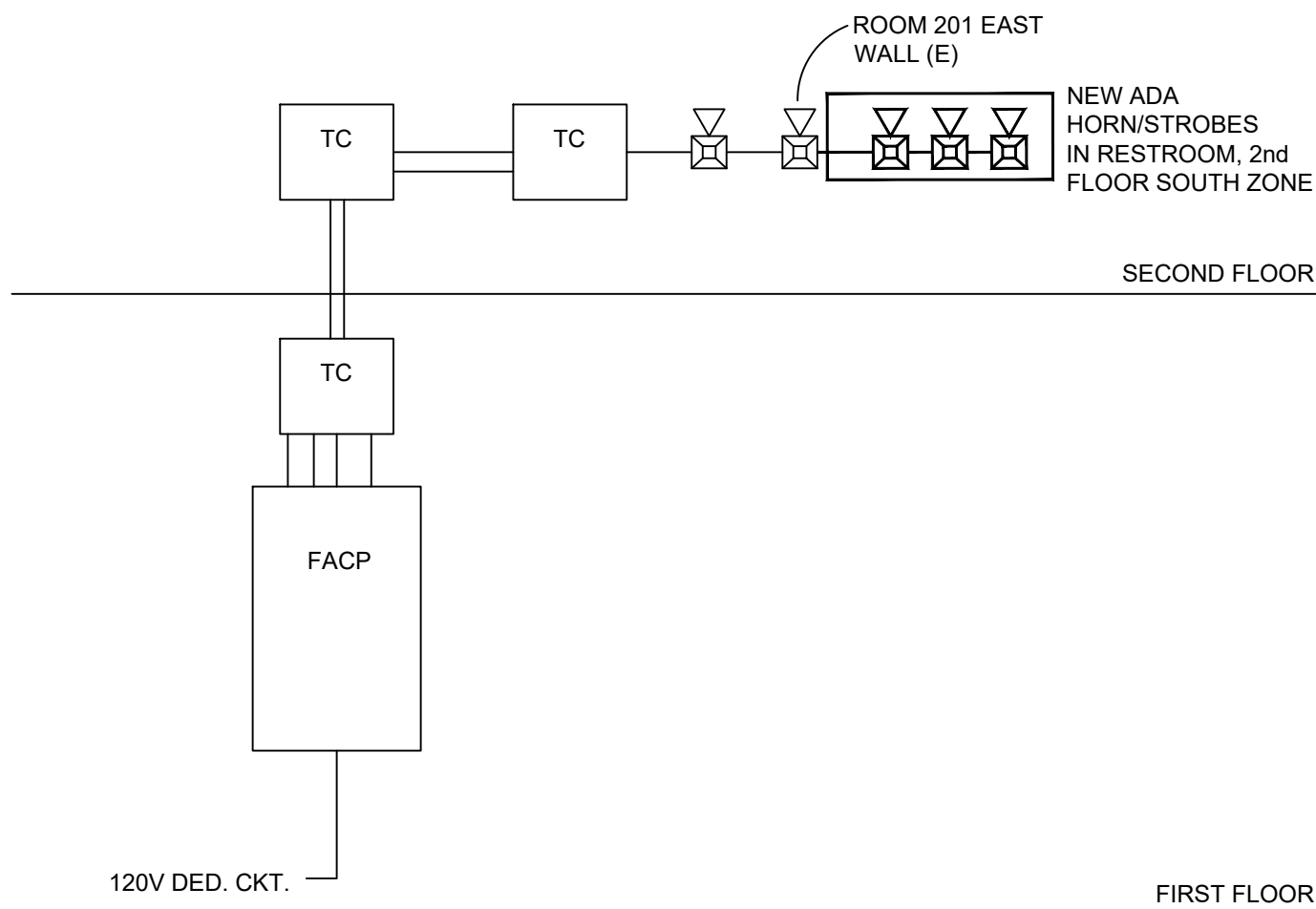
LEGEND AND ABBREVIATIONS

	SURFACE LUMINAIRE 2'x4'		DISCONNECT SWITCH
	RECESSED LUMINAIRE 2'x4'		FUSED DISCONNECT SWITCH
	RECESSED LUMINAIRE 2'x4' BATTERY BACKUP		SMOKE/CARBON MONOXIDE COMBO ALARM
	RECESSED LUMINAIRE 4'		FIRE ALARM CONTROL PANEL
	TRACK LIGHTS		HORN/SSTROBE +9'-0" UNO
	SURFACE MOUNT WRAP LENGTH MAY VARY		TAMPER SWITCH
	SURFACE MOUNT WRAP LENGTH MAY VARY		FLOW SWITCH
	RECESSED CAN LIGHT		MANUAL PULL STATION +48" AFF UNO
	XRAY ON WARNING LIGHT		GFI
	EMERGENCY LIGHT		GROUND FAULT CIRCUIT INTERRUPTOR
	WALL SCONCE		FLOOR BOX WITH 5-20 QUAD RECEPTACLE
	OVERHEAD LIGHT		A/C ABOVE COUNTER
	LED LINEAR LIGHT, LENGTH MAY VARY		DUCT SMOKE DETECTOR
	RECESSED LUMINAIRE 2'x2'		UNDER COUNTER
	EXIT SIGN SINGLE FACE		SPECIAL USE RECEPTACLE +18" AFF TO CENTER UNO
	EXIT SIGN DOUBLE ARROW		EXISTING TO REMAIN
	NEMA 5-20R +18" AFF TO CENTER UNO SUBSCRIPT T = TAMPER RESISTANT SUBSCRIPT WP = WEATHERPROOF		NEW
	QUAD RECEPTACLE NEMA 5-20R SUBSCRIPT CW = IN CASEWORK +18" AFF TO CENTER UNO		REMOVE
	CEILING MOUNT OCCUPANCY SENSOR		20A SWITCH WITH FUSE
	EQUIPMENT CONNECTION		RECESSED CAN LIGHT
	20A SWITCH +46" TO CENTER UNO		PANELBOARD
	DIMMER SWITCH +46" AFF TO CENTER UNO		NEMA 5-20R SWITCHED BY OCCUPANCY SENSOR +18" AFF UNO
	TELECOM OUTLET		ELECTRIC MOTOR
	ABOVE FINISHED FLOOR		WATER HEATER
	UNLESS NOTED OTHERWISE		JUNCTION BOX
	CEILING		THERMOSTAT
	CABLE TV OUTLET, PROVIDE CATV CABLE TO CATV BACKBOARD		6 PLEX NEMA 5-20R
	PARKING LOT LIGHT, POLE MOUNTED		ROOF DRAIN
			FUSE
			DAMPER MOTOR
			SPEAKER
			HEAT DETECTOR
			CARD READER
			CONTROL POWER TRANSFORMER
			EMERGENCY POWER OFF (EPO) PUSHBUTTON SWITCH
			METER
			CEILING MOUNTED WIRELESS ACCESS POINT



PANEL LOCATIONS

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



FIRE ALARM RISER

SCALE: NONE



DEMOLITION PLAN

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

DEMOLITION NOTES

- REMOVE BACK TO SOURCE OR LAST ACTIVE JBOX.
- REMOVE RECEPTACLE; RETAIN CIRCUIT FOR RE-USE DURING CONSTRUCTION.



CONSTRUCTION PLAN

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

CONSTRUCTION NOTES

- FOR PAPER TOWEL DISPENSER, EXTEND TO EACH FAUCET.

SCOPE

REMODEL OF THE SOUTH HALF OF THE EXISTING CIC SERVER ROOM ON THE SECOND FLOOR OF THE CIC INTO A GENDER INCLUSIVE RESTROOM

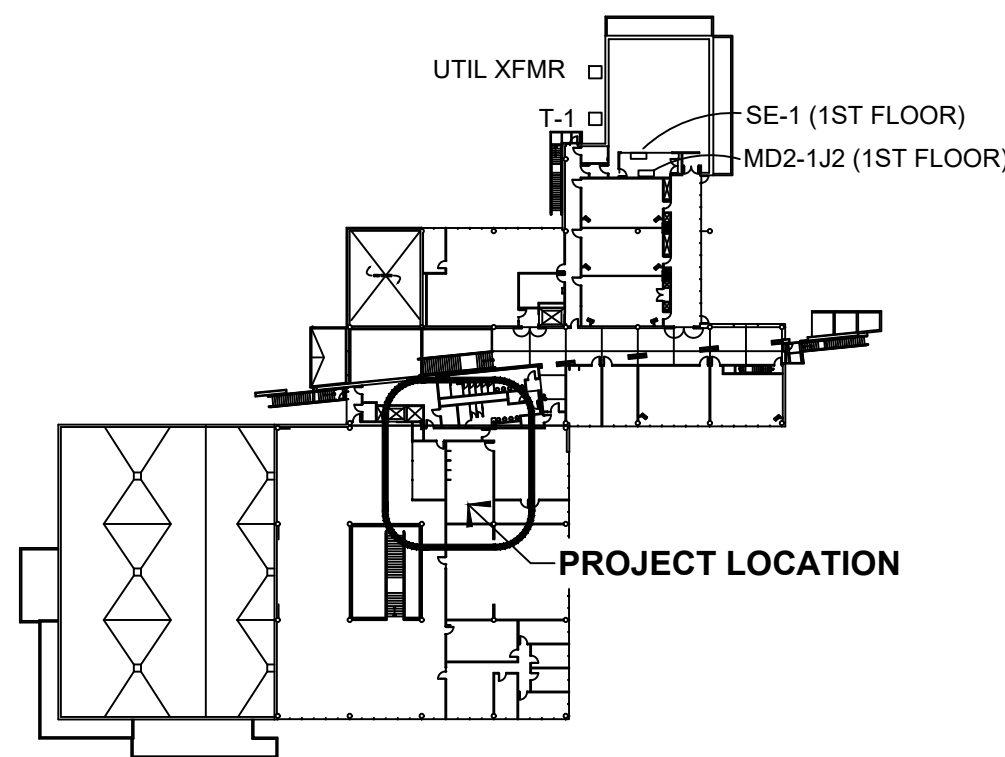
GENERAL NOTES

- THE IT SUPERVISOR MUST COMMUNICATE ISSUES ASSOCIATED WITH ANY SERVER AND COMPUTER EQUIPMENT THAT MIGHT IMPACTED.
- OWNER IS RESPONSIBLE TO SURPLUS ANY ITEMS.



LOCATION PLAN - 2ND FLOOR

SCALE: N.T.S.



WASHINGTON STATE
UNIVERSITY

Capital Planning and Development
225 SE Idaho Street
Pullman, Wa 99164-5611
PH: 509-335-5571
FAX: 509-335-5675

Tri-Cities CIC Building Create New Gender
Inclusive Bathroom

ELECTRICAL DEMOLITION AND CONSTRUCTION PLANS



DESIGN DBK
DRAWN DBK
APP'D
DATE 4/7/23
F.F. NO. 1907-2023
FILE NO. 9512-G-016

E-101
SHEET 9 OF 10

SCOPE

REMODEL OF THE SOUTH HALF OF THE EXISTING CIC SERVER ROOM
ON THE SECOND FLOOR OF THE CIC INTO A GENDER INCLUSIVE RESTROOM

GENERAL NOTES

1. THE IT SUPERVISOR MUST COMMUNICATE ISSUES ASSOCIATED WITH ANY SERVER AND COMPUTER EQUIPMENT THAT MIGHT IMPACTED.
2. OWNER IS RESPONSIBLE TO SURPLUS ANY ITEMS.

[illegible]

**WASHINGTON STATE
UNIVERSITY**

2225 SE Idaho Street
Pullman, Wa. 99164-3611
FAX 509-335-9875

IRF-Cities CIC Building Create New Gender Inclusive Bathroom

ONE LINE DIAGRAM, LOAD CALCS, SCHEDULES

DESIGN	<u>DBK</u>
DRAWN	<u>DBK</u>
APP'D	<u> </u>
DATE	<u>4/7/23</u>
F.F. NO.	<u>1907-2023</u>
FILE NO.	<u>9512-G-016</u>

E-102

SHEET 10 OF 10

LOCATED FED FROM			ELEC CLOSET 213 MD2-1J2				PANEL P2-20G6-3 (E)				SERVICE ENTRANCE RATED KIMBREL CONSULTING SVCS LLC			
CKT NO.	TRIP AMPS	LOAD DESCRIPTION	LOAD (VA)				CKT NO.	TRIP AMPS	LOAD DESCRIPTION	LOAD (VA)				
			LTS	REC	MOT	APP				LTS	REC	MOT	APP	
1	20/1	RECEPS 201 S. FLOOR BOXES		1,200			2	20/1	RECEPS 201A, 201AB, 201AC		900			
3	20/1	RECEPS 201 S. FLOOR BOXES		1,080			4	20/1	RECEPS 201AB, 201AC		1,080			
5	20/1	RECEPS 201AG, 201A		540			6	20/1	RECEPS 201A, 201AB, 201AC		540			
7	20/1	RECEPS 201AF, 201AG		720			8	20/1	RECEPS 201A		720			
9	20/1	RECEPS 201AF, 201AG		720			10	20/1	RECEPS 201, 201A		900			
11	20/1	RECEPS 201AD, 201AF		540			12	20/1	SPARE		720			
13	20/1	RECEPS 201AE, 201AD		1,080			14	20/1	SPARE		720			
15	20/1	RECEPS 201AE, 201AD		540			16	20/1	RECEPS 201C		720			
17	20/1	RECEPS 201, 225B, RESTROOM (N)	200	360		50	18	20/1	RECEPS 201C		540			
19	20/1	RECEPS 201, 225B		720			20	20/1	RECEPS 201C, 201AG		540			
21	20/1	RECEPS 201C		720			22	20/1	RECEPS 201, 201C, 201AG		900			
23	20/1	RECEPS 201C		540			24	20/1	RECEPS 201C		1,080			
25	20/1	RECEPS 201C		720			26	20/1	RECEPS 201C, 201AG		1,080			
27	20/1	RECEPS 201C, 225D		540			28	20/1	RECEPS 201C		1,200			
29	20/1	RECEPS 225D, 201C		1,080			30	20/1	RECEPS 201C		540			
31	20/2	A/C 225B				1,248	32	20/1	RECEPS 201C		540			
33	-	-				1,248	34	20/1	SPARE					
35	20/1	SPARE					36	20/1	BLANK					
37	20/1	SPARE					38	20/3	SURGE SUPPRESSOR					
39	30/2	SPARE					40	-	-					
41	-	-					42	-	-					

TOTAL CONNECTED

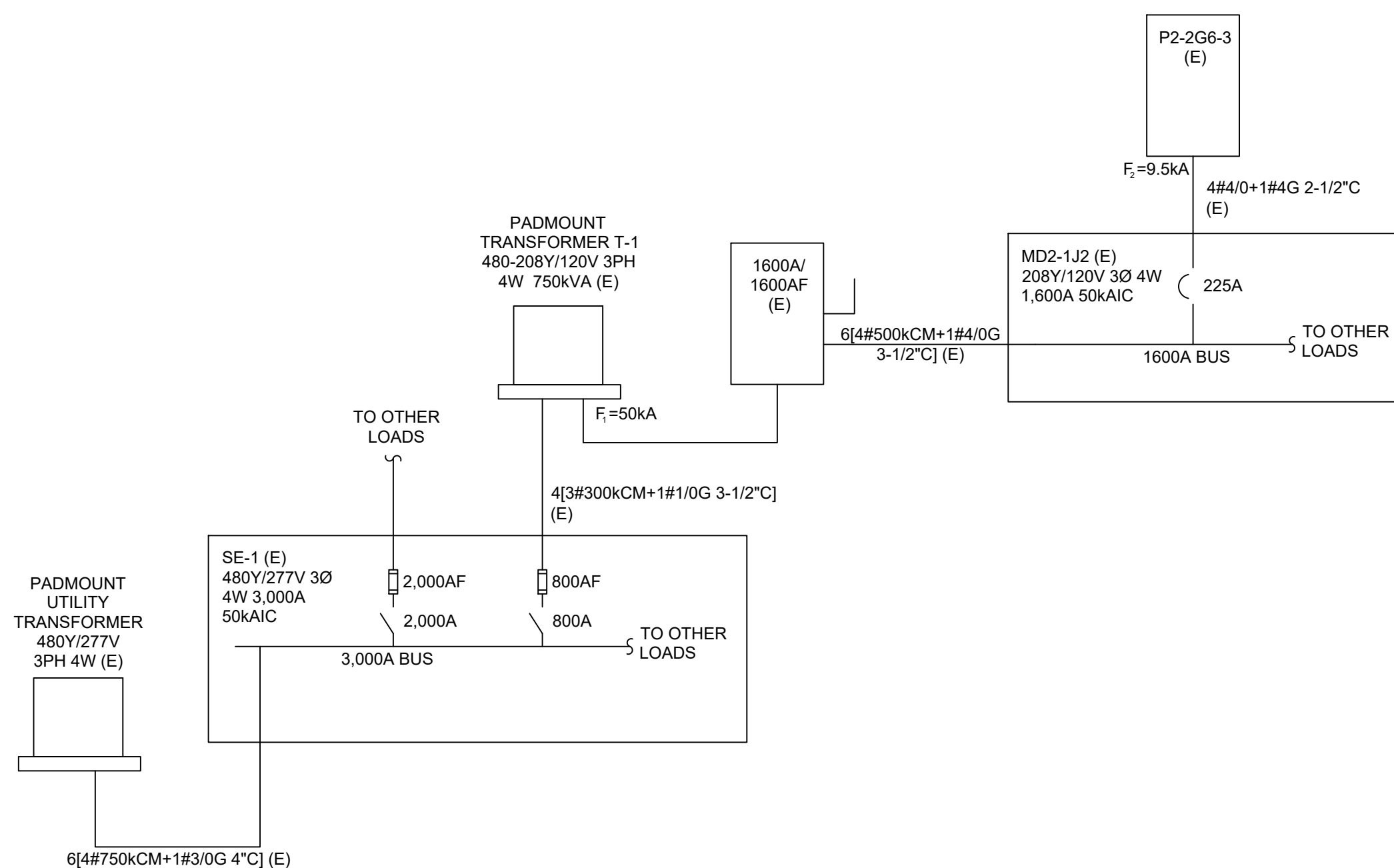
PHASE A	PHASE B	PHASE C
10,188	9,648	6,730

	CONNECTED LOAD		FACTOR	NEC REF	DEMAND LOAD			
LIGHTING	200	1.25	220-10b	=	250	MOUNTING	SURFACE 208 /120	
RECEPTACLES TO 10KVA	23,820	1.00	220-13	=	10,000	VOLTAGE		
RECEPTACLES > 10KVA	13,820	0.50	220-13	=	6,910	AMP MAIN		MLO
MOTORS & COMPRESSORS		1.00	430-24	=		BUS AMP RATING		225A
MOTOR LARGEST		0.25	430-24	=		AIC RATING		10kAIC
APPLIANCES	2,546	1.00		=	2,546			
TOTAL CONNECTED	26,566 (VA)		TOTAL DEMAND		19,706 (VA)			
	74 (AMPS)				55 (AMPS)			

PLAN MARK	LUMINAIRE SCHEDULE					
	TYPE	MOUNTING	MANUFACTURER AND MODEL #	VOLT	LAMP	REMARKS
A	2'X2'	RECESSED	LITHONIA OPX 2X2 3200LM 40K M4 OR EQUIVALENT	120V	32W LED	PROVIDE COMPATIBLE DIMMER W/OCC SENSOR

LOAD ADDED PER THIS REMODEL		
LIGHTS @125%		0.25 KVA
RECEPTACLES TO 10kVA 100%, REMAINDER 50%		0.18 KVA
MOTORS @100%		0.00 KVA
LARGEST MOTOR @25%		0.00 KVA
APPLIANCES @100%		0.05 KVA
TOTAL CONNECTED LOAD		0.43 KVA
TOTAL CALCULATED LOAD		0.48 KVA
0.48 KVA =1A @208V 3 PHASE		

LOAD SUMMARY FOR SE-1 480V MAIN SERVICE, MD2-1J2 208V SYSTEM		
MAXIMUM DEMAND	Sep-21	409.92 KW
MAX DEMAND @ 0.9PF		455.47 KVA
PER NEC (455.47KVA @125%)		512.40 KVA
SEASONAL ADJ.	1.0	512.40 KVA
ADDED LOAD		<u>0.48 KVA</u>
TOTAL LOAD		512.88 KVA
512.88 KVA =617A @480V 3 PHASE =1425A @208V 3 PHASE		



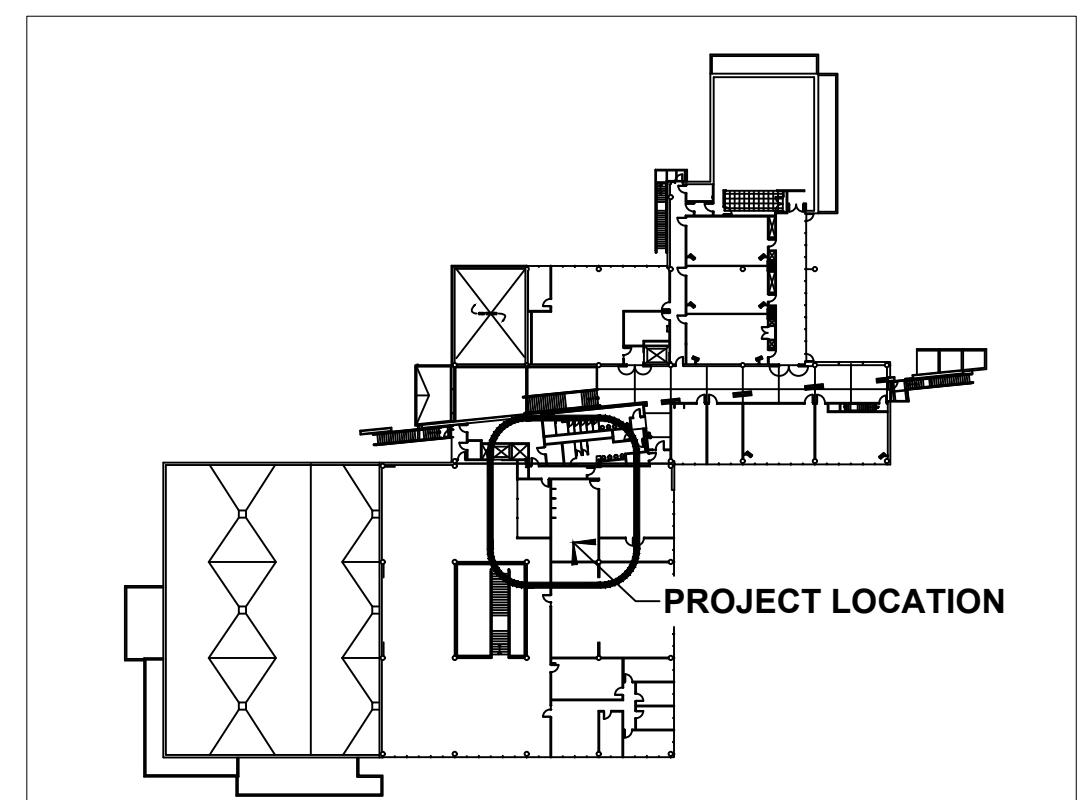
PARTIAL ONE LINE DIAGRAM - EXISTING

SCALE: NONE NOTE: NO WORK TO BE PERFORMED, SHOWN FOR INFORMATION ONLY.

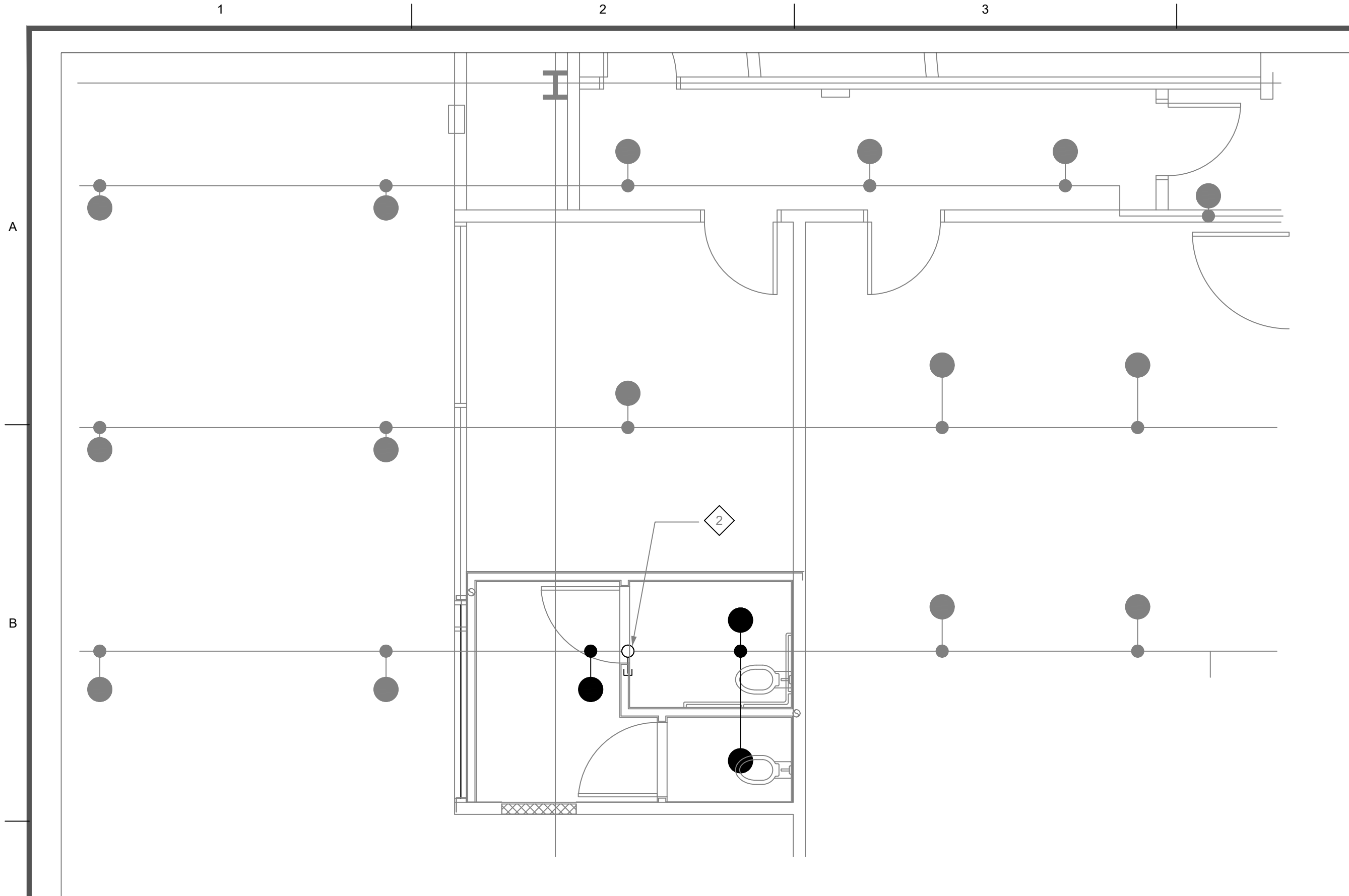
95% SET - NOT FOR CONSTRUCTION



SCALE: N.T.S.

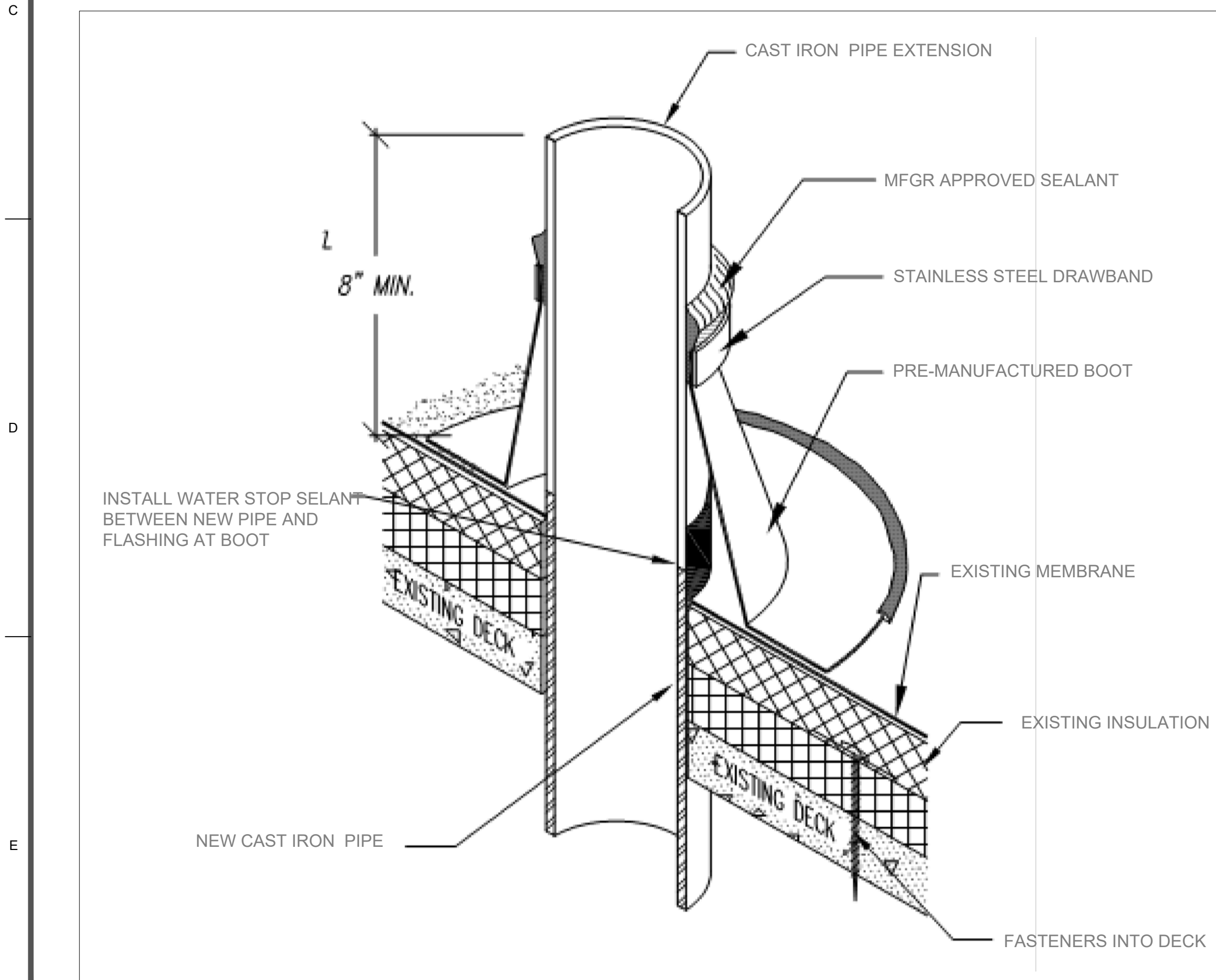


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FIRE SPRINKLER MODIFICATIONS

SCALE: #####

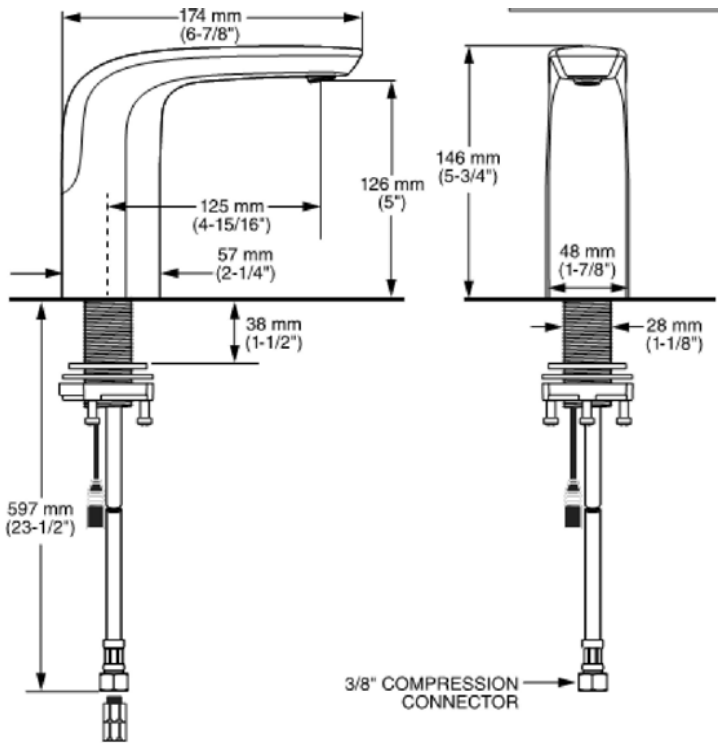


1 PIPE ROOFING PENETRATION-TPO
NO SCALE

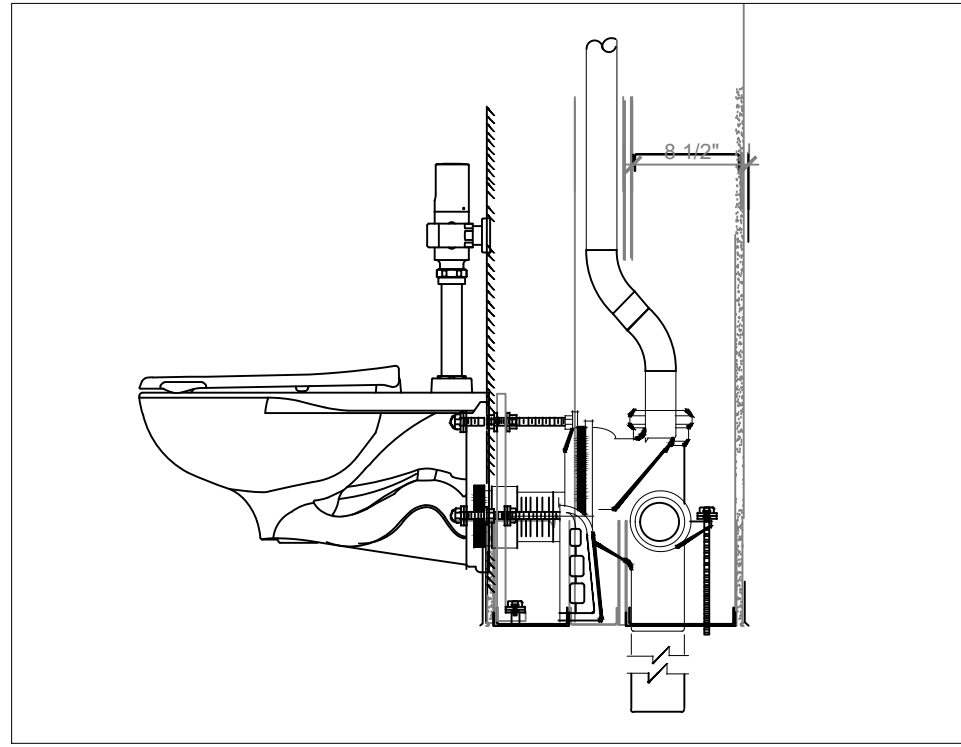


FIXTURE LOCATIONS

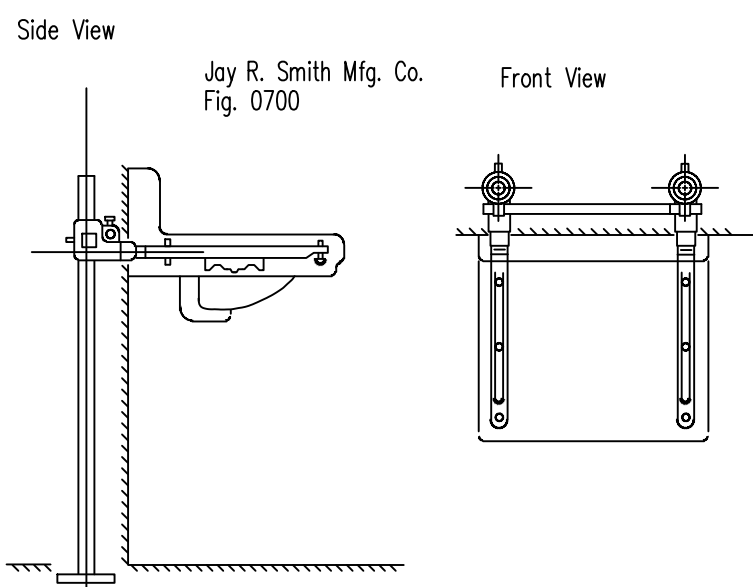
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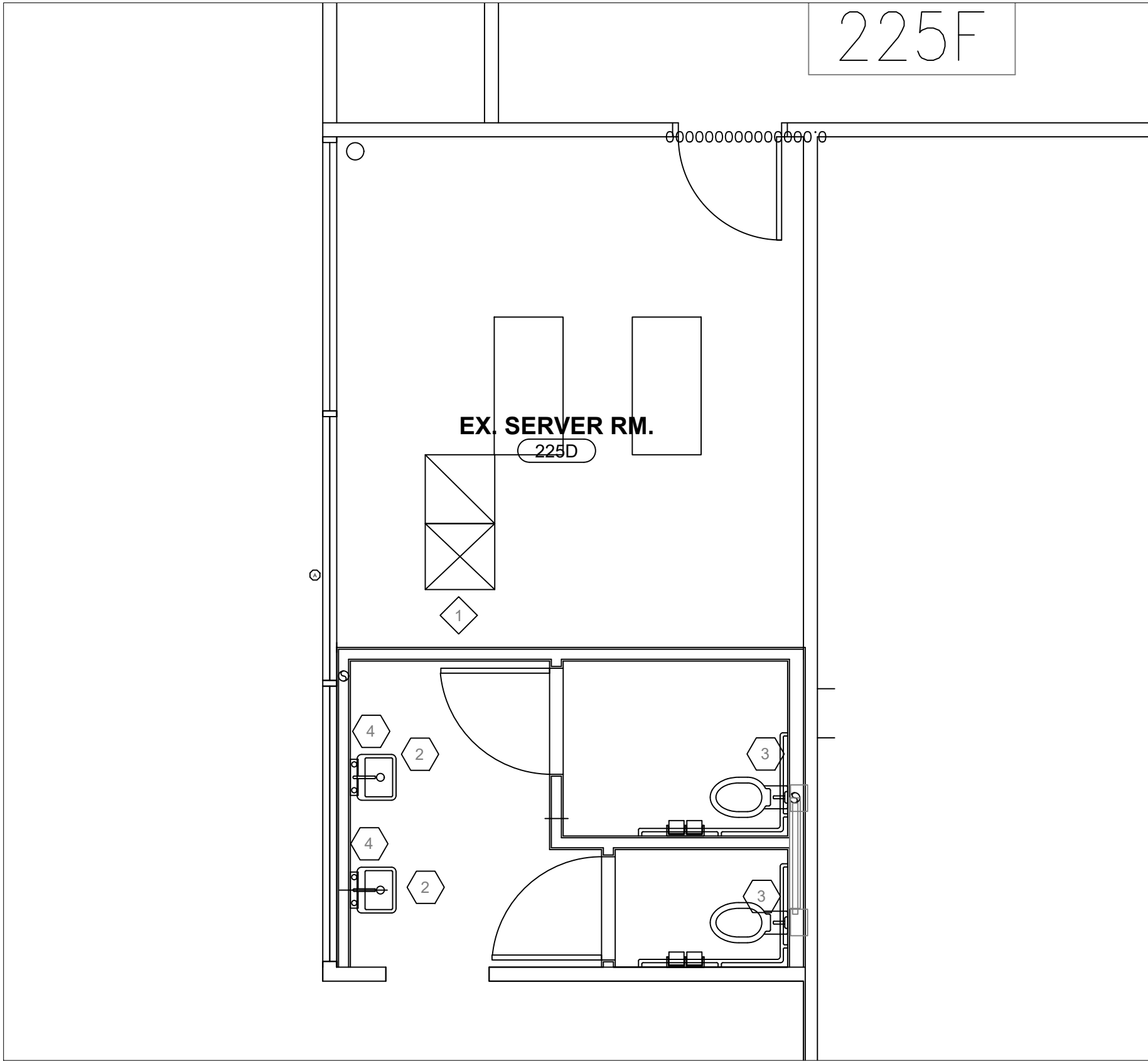
2 ELECTRONIC FAUCET
NO SCALE



3 TOILET AND CARRIER SUPPORT
NO SCALE



2 WALL HUNG LAVATORY-- SUPPORTS
NO SCALE



GENERAL NOTES

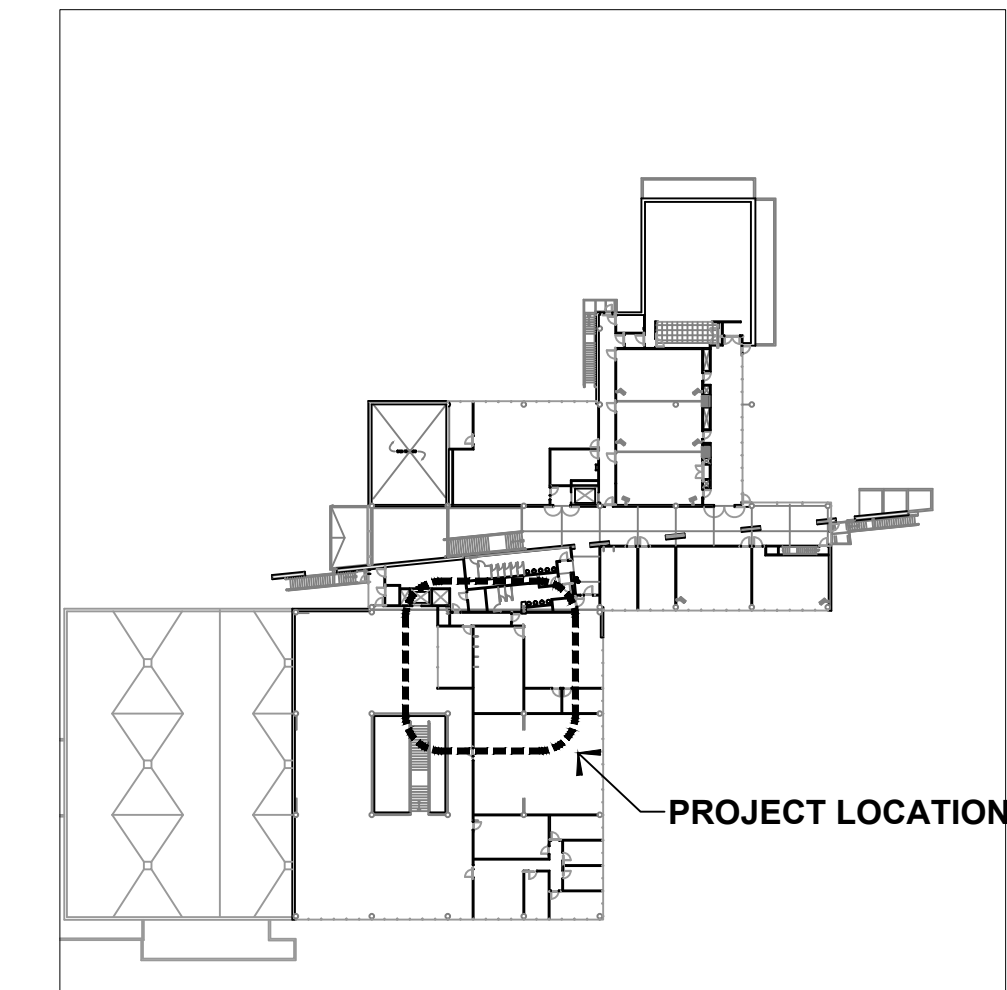
- MECHANICAL AND PLUMBING SCOPE:
1. INSTALLATION OF TWO UNI-SEX RESTROOMS
 2. WILL UTILIZE EXISTING HVAC ZONE AND EXISTING TOILET EXHAUST SYSTEM-NEW DIFFUSERS FOR EACH. NEW ZONE CONTROLLER AND THERMOSTAT FOR EXISTING DUAL DUCT BOX SERVING THE RESTROOM.
 3. CONTRACTOR WILL BALANCE NEW DIFFUSERS TO VALUES NOTED ON THE DRAWING.
 4. MODIFY LOCATIONS FOR FIRE SPRINKLERS-HEADS TO MATCH EXISTING BUT WITH NEW TRIM TO MATCH HARD CEILING.
 5. EXTEND SANITARY WASTE AND VENT FROM EXISTING RESTROOMS IN COMMON AREA-PROVIDE NEW VENT THROUGH ROOF
 6. EXTEND EXISTING HOT, COLD AND RECIRCULATED WATER LINES FROM ADJACENT EXISTING RESTROOMS TO NEW SPACE-POINT OF CONNECTION FOR EXISTING TO INCLUDE SHUT OFF VALVES FOR SYSTEM ISOLATION AND DRAINING
 7. ALL FIXTURES ARE WALL SUPPORTED WITH SPECIFIED SUPPORTS
 8. ALL FIXTURES ARE ELECTRONICALLY CONTROLLED AND POWERED BY BUILDING POWER

DEMOLITION NOTES

- 1 EXISTING DIFFUSER AND FLEX DUCT IN ROOM 225B TO BE REMOVED-SEE SHEET M1.3
- 2 REMOVE EXISTING FIRE SPRINKLER HEAD AND CAP PIPING

CONSTRUCTION NOTES

- 1 FIRE SPRINKLER HEAD: 3/4" QUICK RESPONSE, GLASS BULB, FINISH IN CHROME RECESSED ESCUTCHEON TO MATCH EXISTING HEADS FOR HARD CEILING USE. SHOP DRAWINGS FOR FIRE PROTECTION CHANGES TO BE STAMPED BY LICENSED FPE
- 2 NEW SINKS TO BE AMERICAN STANDARD MURRO FREE STANDING WITH FIBERGLASS FITTING COVER, MODEL 0955.00EC, SINGLE OUTLET HOLE WITH OVERFLOW. NEXTGEN SELECTRONIC LAVATORY FAUCET 775B.105, WITH PK00.HAC POWER SUPPLY (1 REQUIRED FOR TWO FAUCETS)
- 3 NEW WALL MOUNTED AMERICAN STANDARD AFWALL TOILET 3351.101, JR SMITH WALL CARRIERS 140D&170D, WITH TOE BOLT ANCHOR, ULTIMA SELECTRONIC FLUSH VALVE 606B.111, SINGLE FLUSH HEAD WITH MULTIPOWER KIT PKK00.MAC. 120 VOLT POWER SUPPLY LOCATED ABOVE CEILING OF IMMEDIATELY ADJACENT SPACE WITH T-BAR CEILING ACCESS FOR SERVICE
- 4 KEELY 1/2 TURN ANGLE STOP WITH INTEGRAL WATER HAMMER ARRESTOR, REMOVABLE KEY HANDLE, CHROME PLATED -OATLY., SOUIX CHIEF, BRASS CRAFT
- 5 SANITARY PIPING ISOMETRIC DRAWING. PIPING TO BE RUN IN CEILING OF FIRST FLOOR TO PLUMBING CHASE IN MAIN RESTROOM PIPE CHASE. SUPPORT PIPING PER PLUMBING CODE, FROM STRUCTURAL MEMBERS. PROVIDE LATERAL SUPPORT AS REQUIRED FOR LOCAL SEISMIC REQUIREMENTS AS APPLICABLE. 4" PIPING TO BE CAST IRON WITH MULTI-BAND NO HUB CONNECTORS SUCH AS HUSKEY. PROVIDE FLASHING FOR VTR WITH PROPER ROOF MEMBRANE SEAL FOR TPO ROOFING. VERTICAL PIPING TO BE SUPPORTED AT EACH FLOOR PENETRATION. FLOOR PENETRATIONS TO BE SEALED WITH UL APPROVED FIRE SEAL FOR APPLICATION. ALL HORIZONTAL PIPING TO MAINTAIN A MINIMUM 1% SLOPE TOWARDS DRAIN



KEY PLAN

SCALE: N.T.S.

REVISION DESCRIPTION	DATE	APPD.	REV.

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225 SE Idaho Street
Pullman, Wa 99164-3611

PH 509-335-5571
FAX 509-335-5575

SANITARY PIPING-PLAN VIEW DETAILS

FIRE PROTECTION CHANGES

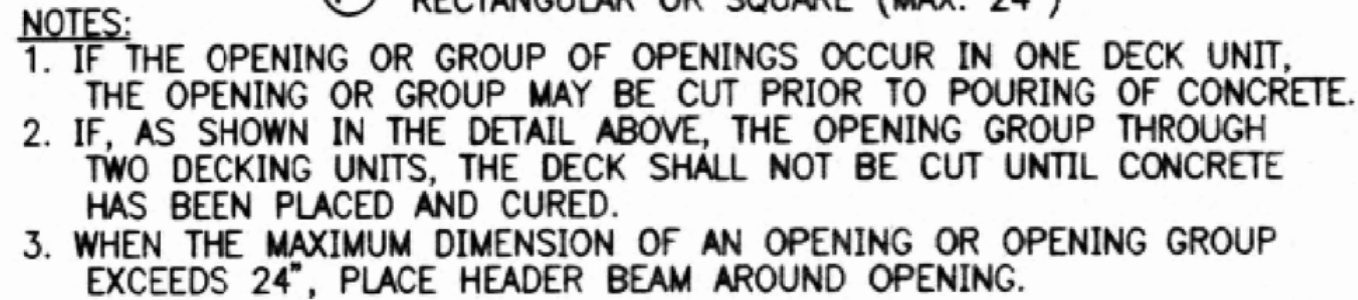
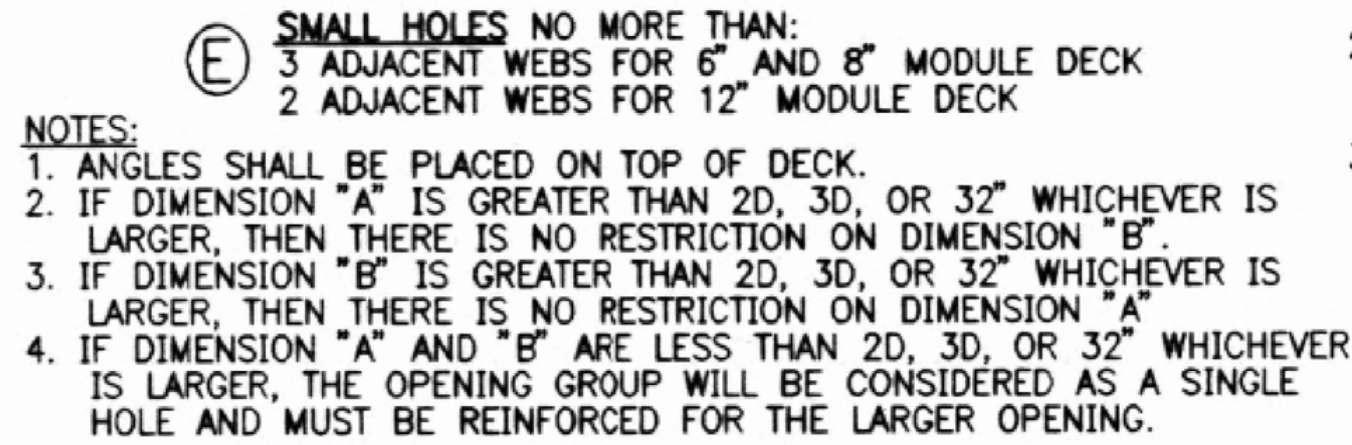
WSU TRICITIES CIC BUILDING NEW RESTROOM



DESIGN	slp
DRAWN	###
APPD	
DATE	4.7.2023
F.F. NO.	1907-2023
FILE NO.	9512-G-016

M1.0

SHEET 5 OF 10



8
TYP

NO SCALE



US GYPSUM PRODUCT #CAJ - 5146 OR APPROVED EQUIVALENT UL
RATED SYSTEM

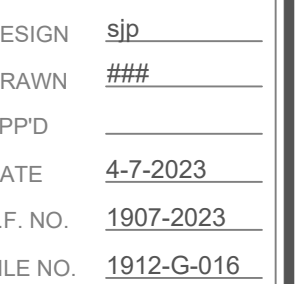


	SHUTOFF VALVE		MEASUREMENT VENTURI
	BALL OR BUTTERFLY VALVE		UNION
	VALVE W/MEMORY STOP		PIPE ANCHOR
	CHAIN OPERATED VALVE		PIPE EXPANSION JOINT
	3-WAY CONTROL VALVE		FLEXIBLE PIPE CONNECTION
	2-WAY CONTROL VALVE		GRADE (SLOPE) DIRECTION
	SOLENOID VALVE		FLOW DIRECTION
	GATE VALVE		SANITARY SEWER
	GLOBE VALVE		PUMPED SANITARY SEWER
	CHECK VALVE		STORM SEWER
	RELIEF VALVE(ELEVATION)		SANITARY WASTE ABOVE GRADE
	RELIEF VALVE(PLAN)		SANITARY WASTE BELOW GRADE
	PRESSURE REDUCING VALVE		INDIRECT WASTE ABOVE GRADE
	GAS COCK		INDIRECT WASTE BELOW GRADE
	RAIN WATER LEADER ABOVE GRADE		COLD WATER
	HW HEAT TRACED (HWTMS)		HOT WATER
	HOT WATER RECIRCULATING		HOT SOFT WATER
	EXISTING PLUMBING/PIPING		VENT LINE



SCALE: N.T.S.

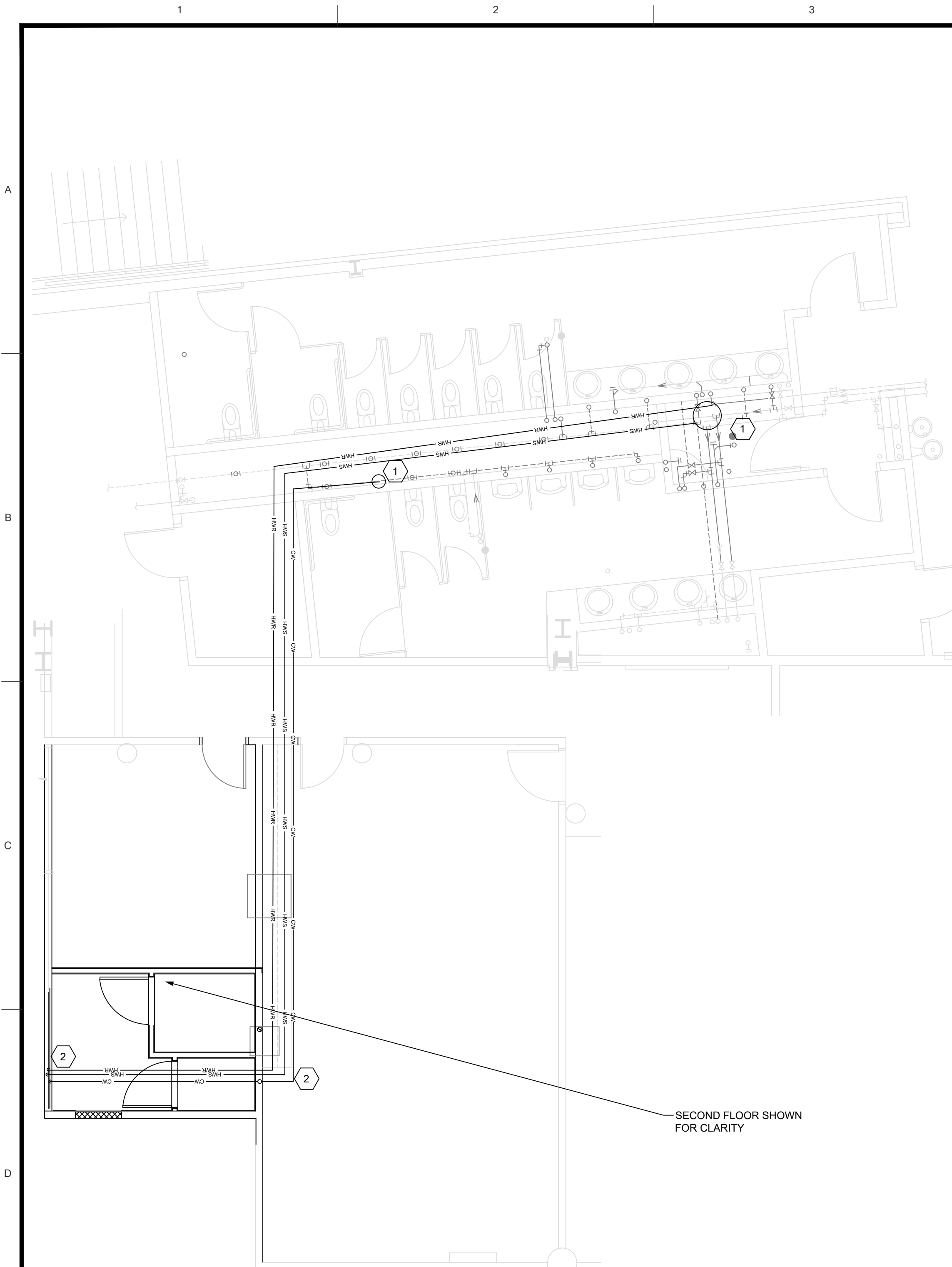
- SANITARY PIPING-PLAN VIEW DETAILS**
- FIRE PROTECTION CHANGES
- WSU TRICITIES CIC BUILDING NEW RESTROOM



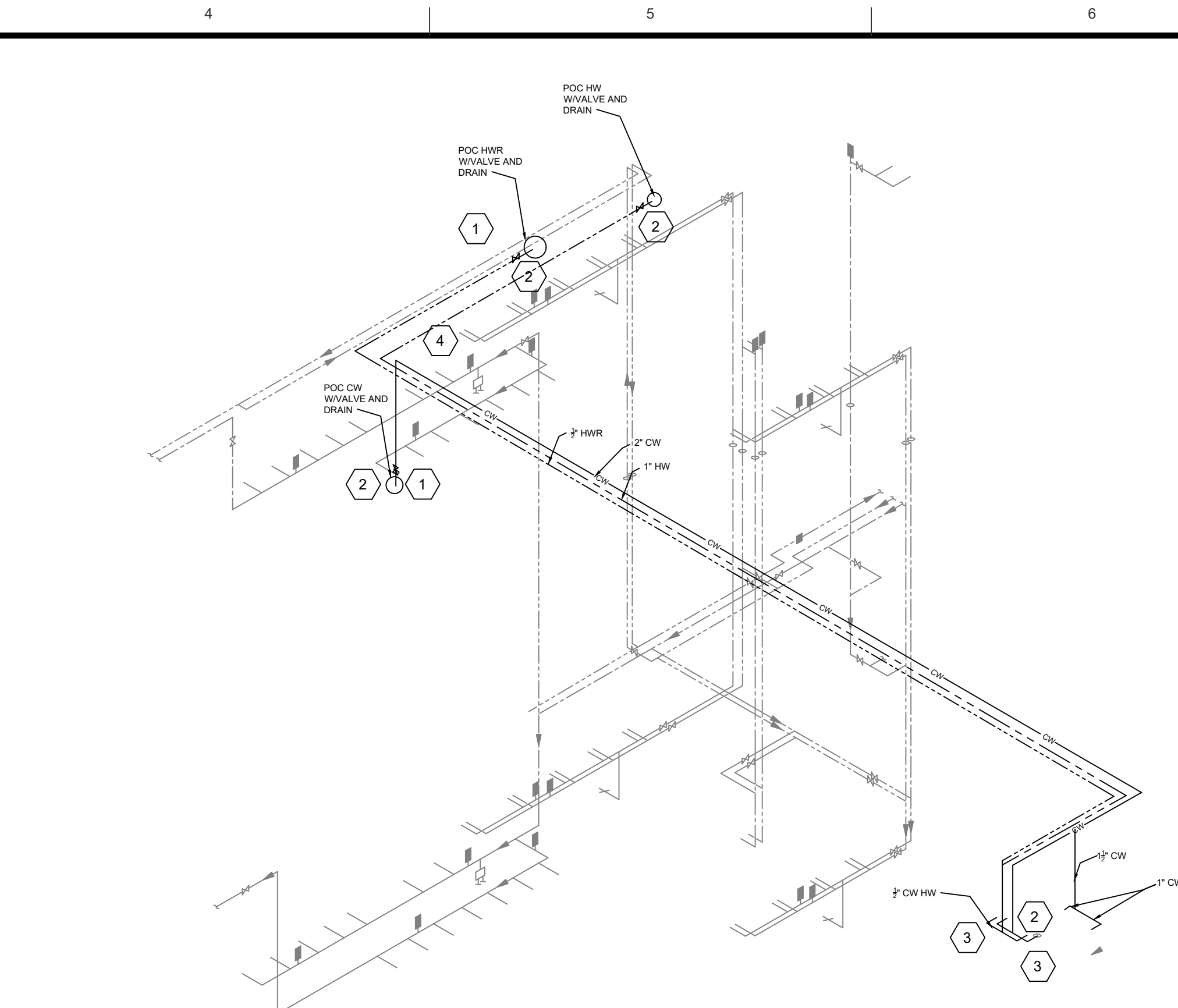
M1.1

SHEET 6 OF 10

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SPLIT PLAN VIEW FIRST FLOOR RESTROOMS & 225D
SCALE: 1/4" = 1'- 0"



WATER PIPING ISOMETRIC RISER DIAGRAM-
SCALE: NONE

GENERAL NOTES

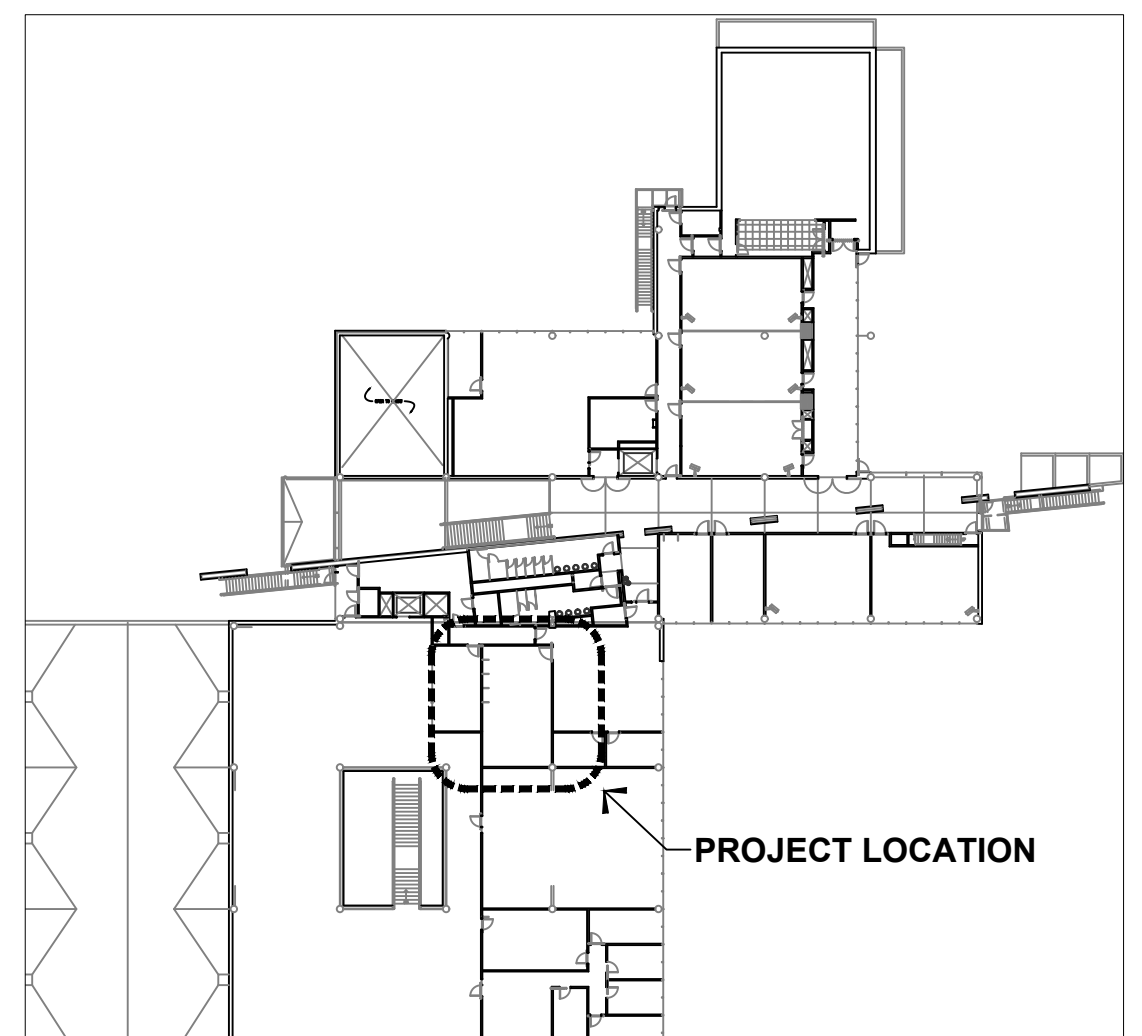
WATER PIPING MATERIALS MAY BE COPPER WITH SOLDERED, PRESSFIT JOINTS OR PEX TUBING WITH MECHANICAL JOINTS. ALL WATER PIPING TO BE INSULATED. ALL WATER PIPING TO BE SUPPORTED PER CODE AND PEX TUBING TO BE SUPPORTED PER MANUFACTURER'S REQUIREMENTS. SEE SPECIFICATIONS FOR MATERIALS REQUIREMENTS

DEMOLITION NOTES

NOT USED

CONSTRUCTION NOTES

- 1 WATER PIPING CONNECTIONS FOR HOT COLD AND HOT WATER RETURN SERVICES TO BE TIED IN WITHIN EXISTING RESTROOM PLUMBING CHASE ON THE SECOND FLOOR. ROUTING OF PIPING TO BE WITHIN THE CEILING OF THE SECOND FLOOR AND PENETRATE INTO THE PERIMETER WALLS OF THE NEW RESTROOM ON THE 2ND FLOOR
- 2 POINT OF CONNECTION FOR EACH SERVICE TO INCLUDE ISOLATION BALL VALVE AND DRAIN VALVE WITH HOSE FITTING AND BRASS CAP
- 3 KEELY 1/4 TURN ANGLE STOP WITH INTEGRAL WATER HAMMER ARRESTOR, REMOVABLE KEY HANDLE, CHROME PLATED -OATLY, SOUX CHIEF, BRASS CRAFT
- 4 FIELD VERIFY CW, HW AND HWR SERVICES AND CONFIRM WITH WSU CONSTRUCTION COORDINATOR PRIOR TO CONNECTION WITH EXISTING UTILITIES. PROVIDE NOTIFICATION OF SHUT DOWN FOR TIE IN 48 HOURS PRIOR TO CONNECTIONS.



KEY PLAN
SCALE: N.T.S.

REVISION DESCRIPTION	
REV.	DATE

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225 SE Idaho Street
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PH: 509-335-5571
FAX: 509-335-6575

PLUMBING-WATER PIPING

PLANS AND DETAILS

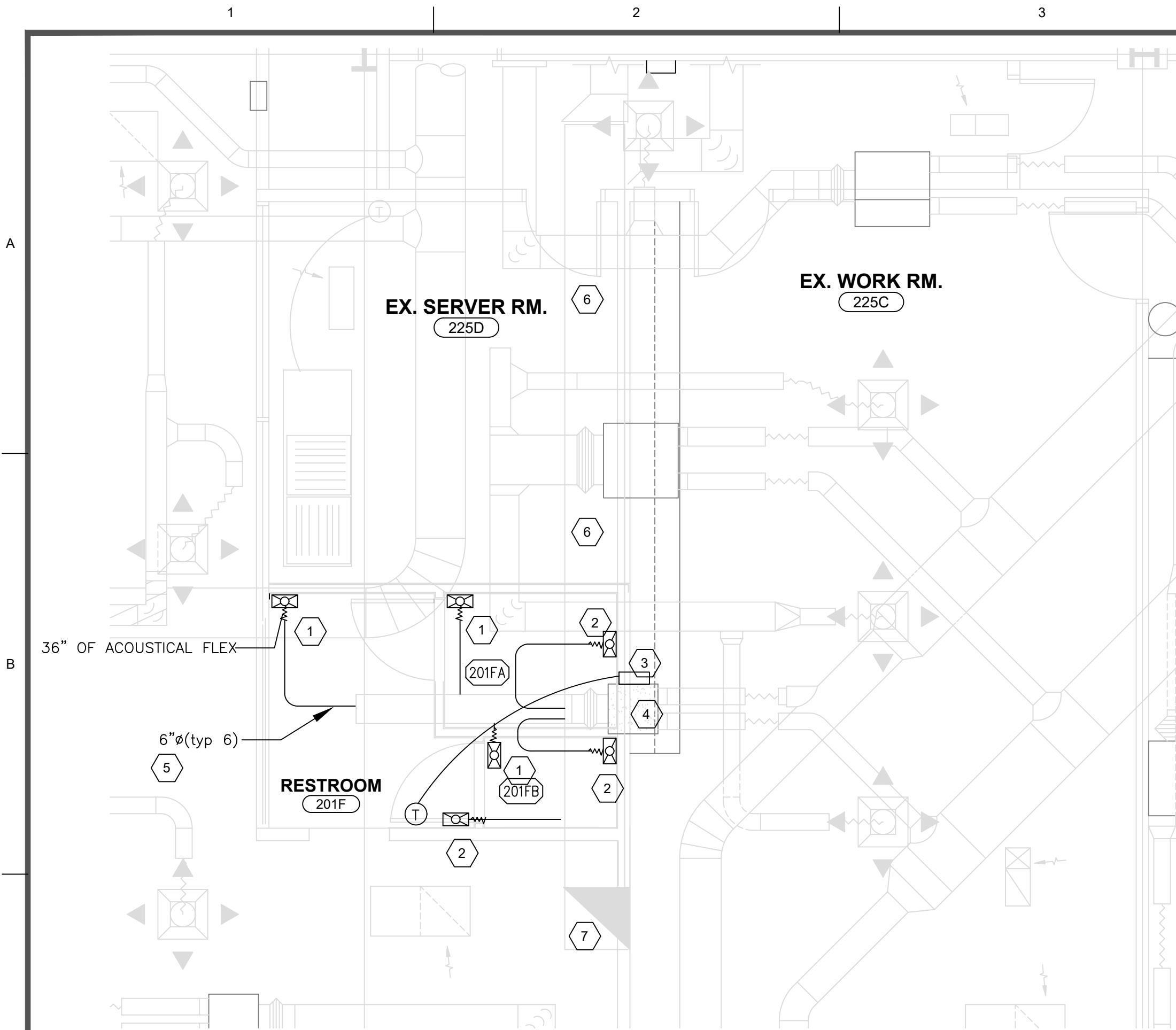
WSU TRICITIES CIC BUILDING NEW RESTROOM

DESIGN: SJP
DRAWN: SJP
APPD:
DATE: 4-7-2023
F.F. NO.: 1907-2023
FILE NO.: 9512-G-016

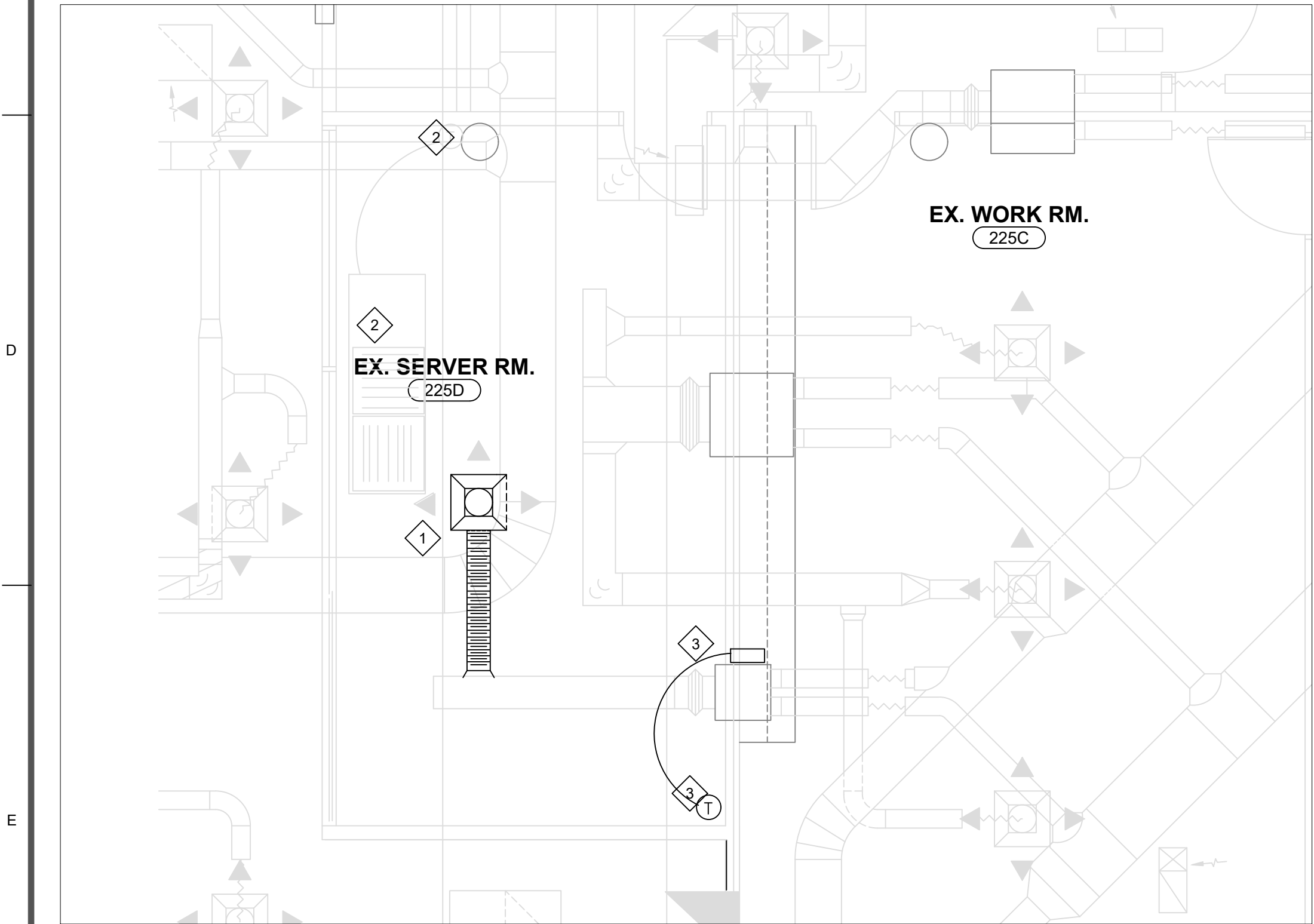
M1.2

SHEET 7 OF 10

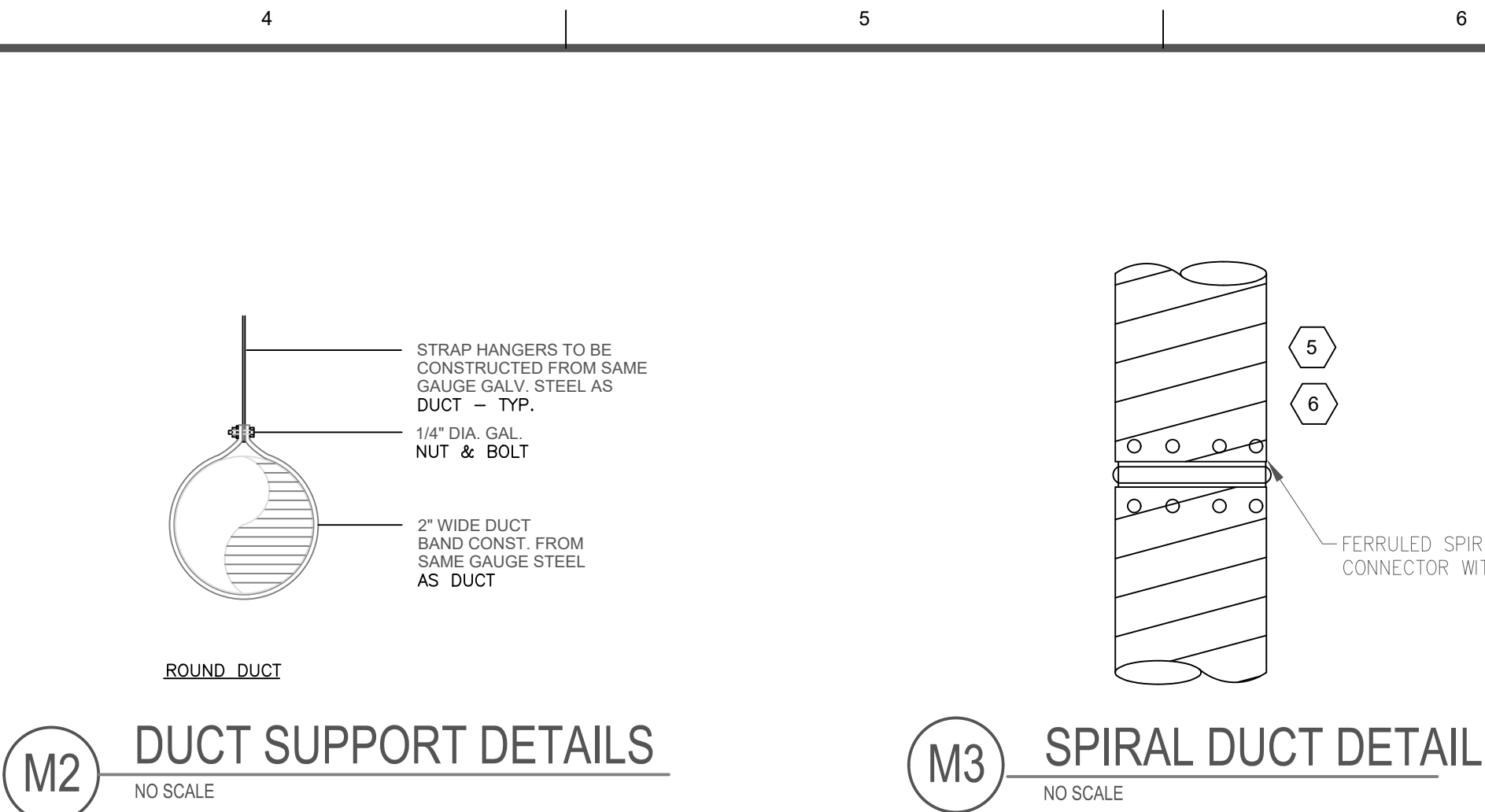
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M1 DUCT CHANGES ROOM 225D
SCALE 1/2" = 1'-0"

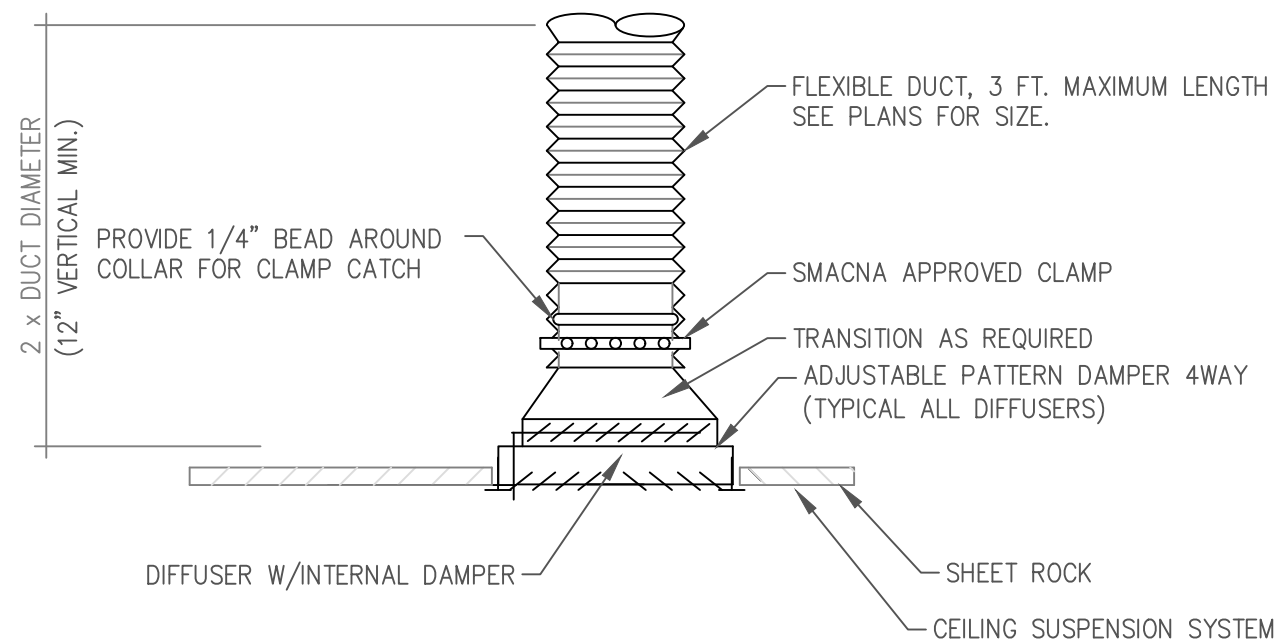


M2 DUCTWORK DEMOLITION ROOM 225D
SCALE 1/2" = 1'-0"



M2 DUCT SUPPORT DETAILS
NO SCALE

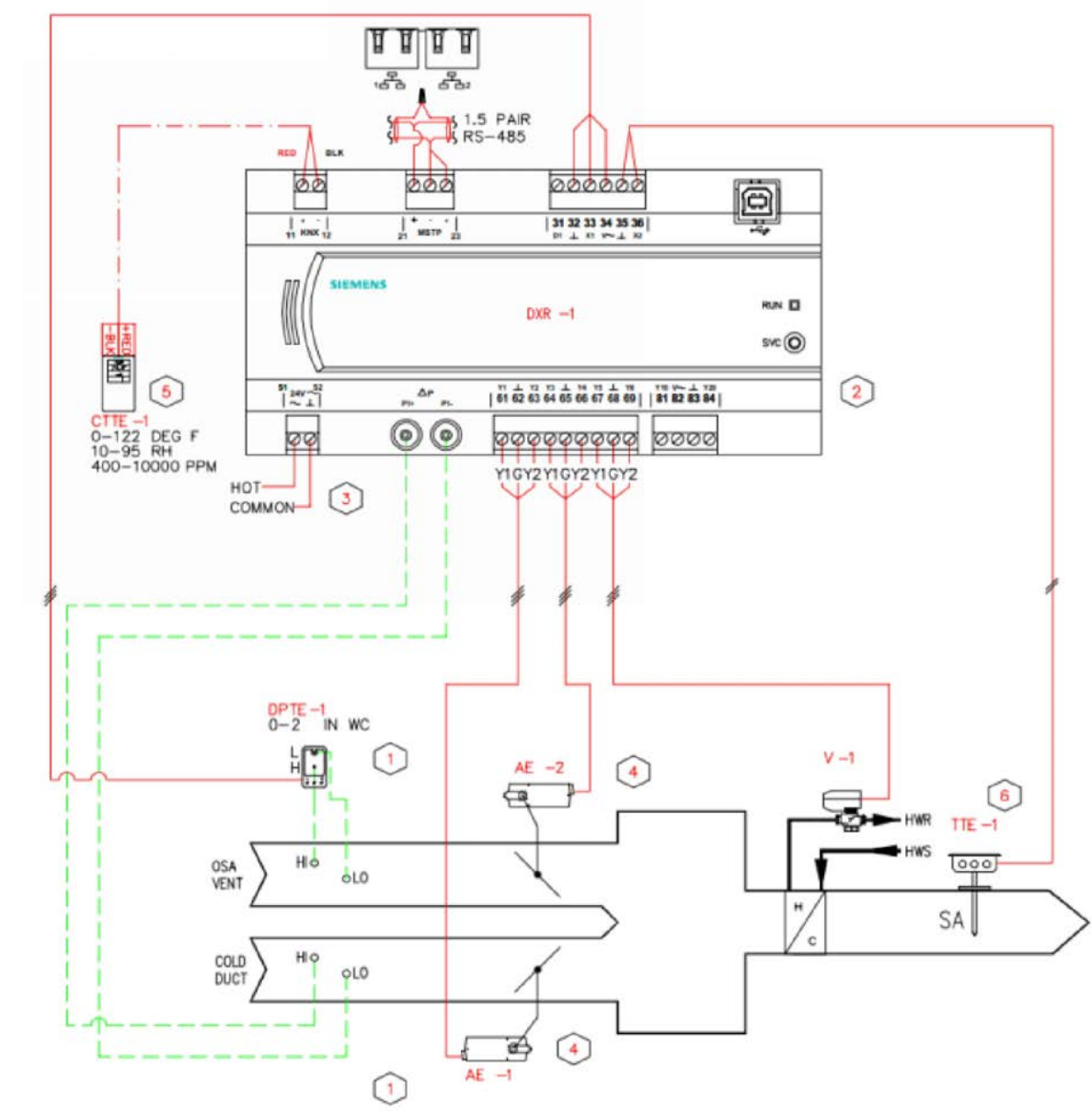
M3 SPIRAL DUCT DETAIL
NO SCALE



M5 DIFFUSER DETAIL-GRILLE WITH DAMPER
NO SCALE

AIR BALANCE VALUES

ROOM #	SUPPLY	EXHAUST
201F	100	95
201FA	45	55
201FB	45	55



M6 REPLACEMENT CONTROL FOR EXISTING TEC
NO SCALE

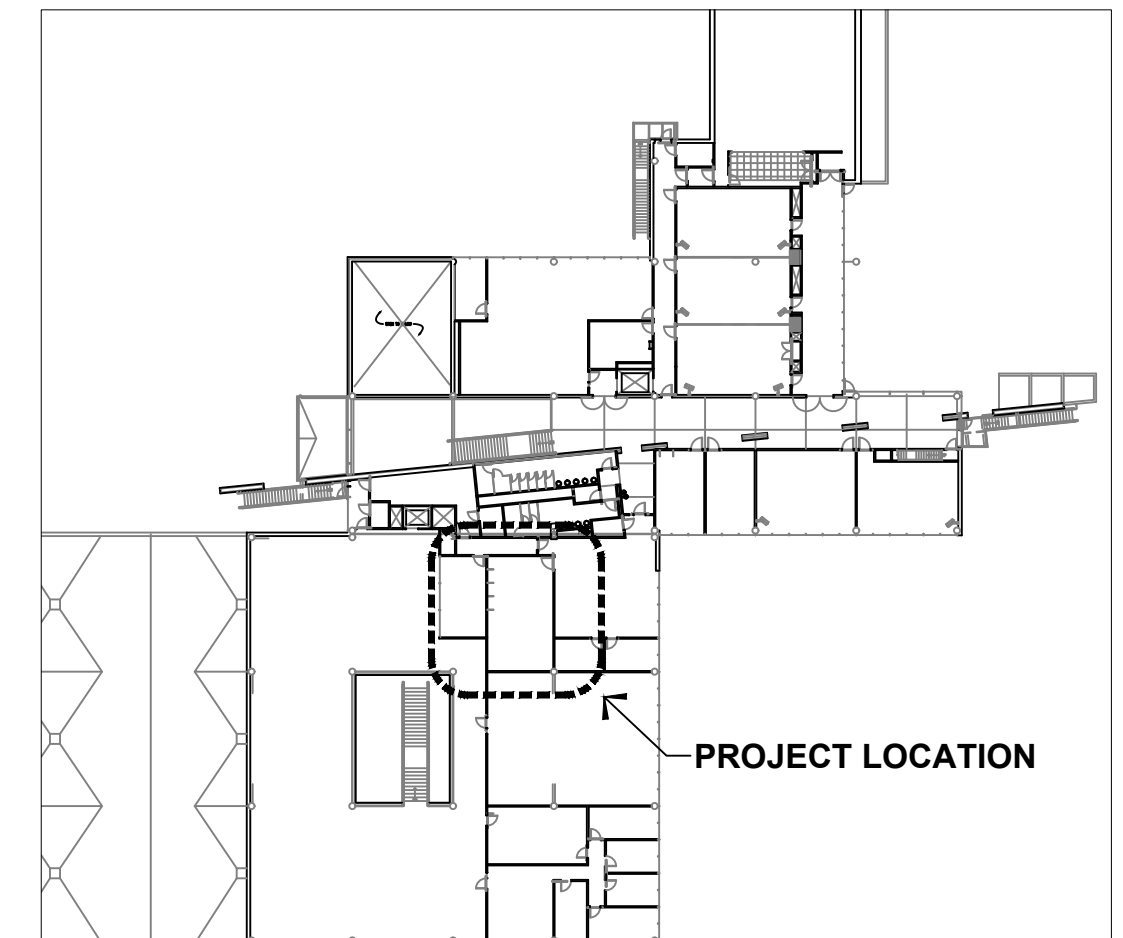
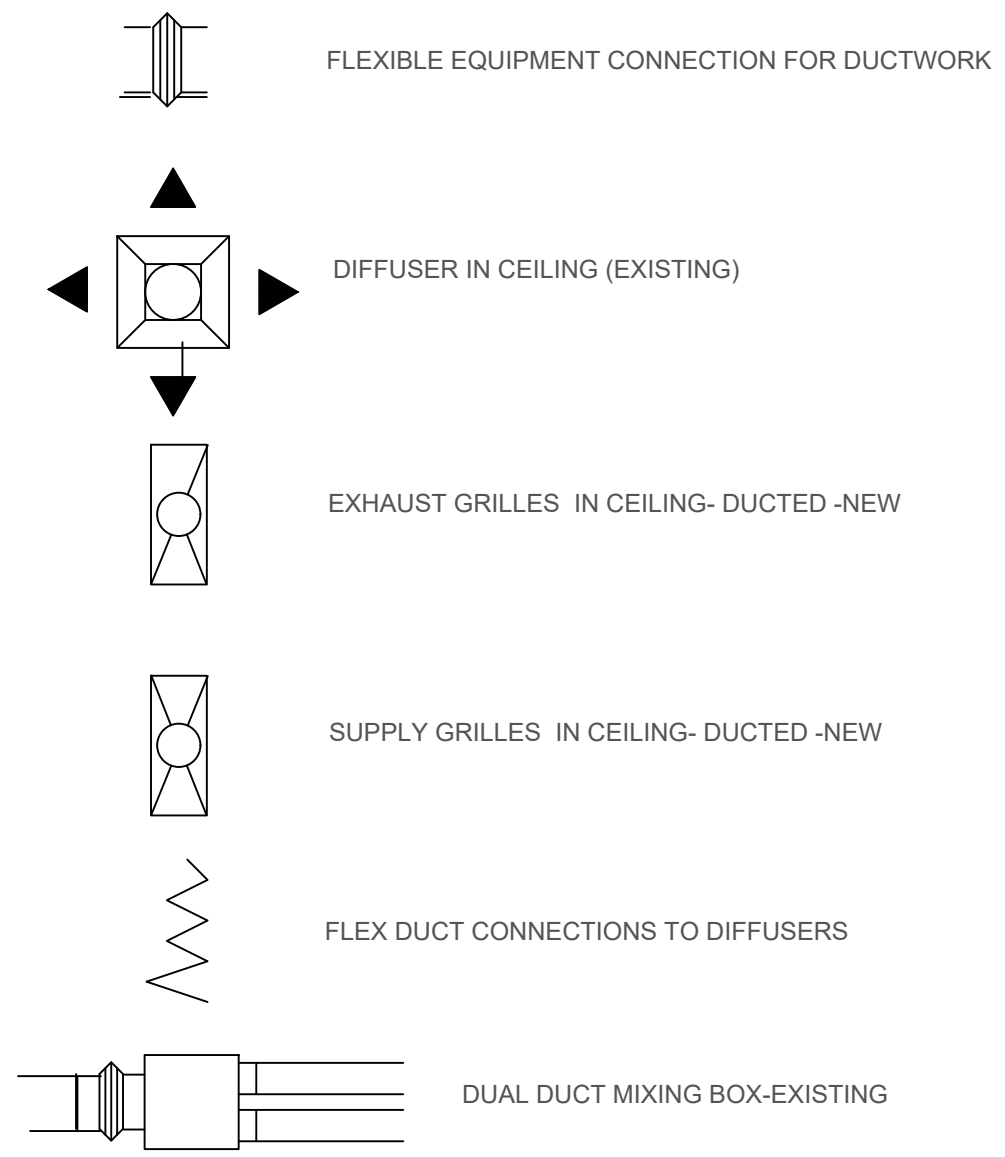
DEMOLITION NOTES

- EXISTING DIFFUSER AND DUCTWORK IN ROOM 225B TO BE REMOVED. EXISTING DUCT TO BE CAPPED AND SEALED WITH LIQUID DUCT SEALANT. INSULATION TO BE RESTORED WHERE MISSING.
- EXISTING LIEBERT MINI-MATE TO REMAIN WITH EXISTING THERMOSTAT-NO CHANGES
- REMOVE EXISTING BOX TEC CONTROLLER AND THERMOSTAT. DELIVER TEC TO OWNER

DUCTWORK CONSTRUCTION NOTES

- NEW SUPPLY GRILLES TITUS 300 WITH INTERNAL BALANCE DAMPER SIZE 10X6 WITH 6" ROUND NECK ADAPTER 6" DUCT SIZE. 36" X 6" SECTION OF ACOUSTIC SOUND FLEX DUCT
- NEW TOILET EXHAUST GRILLES TITUS 350RL WITH INTERNAL BALANCE DAMPER SIZE 10X6 WITH 6" ROUND NECK ADAPTER SUPPLY VOLUME 70 CFM 6" DUCT SIZE. 36" X 6" SECTION OF ACOUSTIC SOUND FLEX DUCT
- EXISTING DUAL DUCT SUPPLY BOX FOR ROOM 225A TO REMAIN IN EXISTING LOCATION-PROVIDE NEW SIEMENS P1 DXR2.T12 MIXING BOX CONTROLLER AND THERMOSTAT IN LOCATIONS SHOWN. BALANCE AIR FLOWS ACCORDING TO CHART PROVIDED-SEE DETAIL M-6 ON THIS SHEET
- ALL NEW SUPPLY DUCT TO BE INSULATED WITH 4" OF EXTERNAL DUCT WRAP WITH ALL PURPOSE JACKET AND TAPPED SEAMS. SEE SPECIFICATIONS FOR R-VALUES
- SPIRAL DUCTWORK DUCT CONNECTIONS TO BE DONE WITH FERRULED SLEEVES AND RIVETS WITH HIGH PRESSURE LIQUID DUCT SEALANT AT ALL JOINTS SUPPORT DUCT WITH STRAP SUPPORTS PER DETAIL M-2 THIS PAGE
- EXISTING TOILET EXHAUST DUCT LOCATED ABOVE SUPPLY DUCTWORK-HIGHLIGHTED FOR EMPHASIS. CONNECTED TO EF-3
- EXISTING RISER TO EF-3

HVAC SYMBOLS



KEY PLAN
SCALE: N.T.S.

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Capital Planning and Development
225 SE Idaho Street
Pullman, WA 99164-3611

PH 509-335-5571
FAX 509-335-6675

PLAN VIEW SUPPLY AND EXHAUST DUCT
PLANS AND DETAILS
WSU TRICITIES CIC BUILDING NEW RESTROOM

DESIGN SJP
DRAWN SJP
APPD
DATE 4-7-2023
F.F. NO. 1907-2023
FILE NO. 9512-G-016

PROJECT LOCATION

M1.3
SHEET 8 OF 10