

BD Restroom Renovation

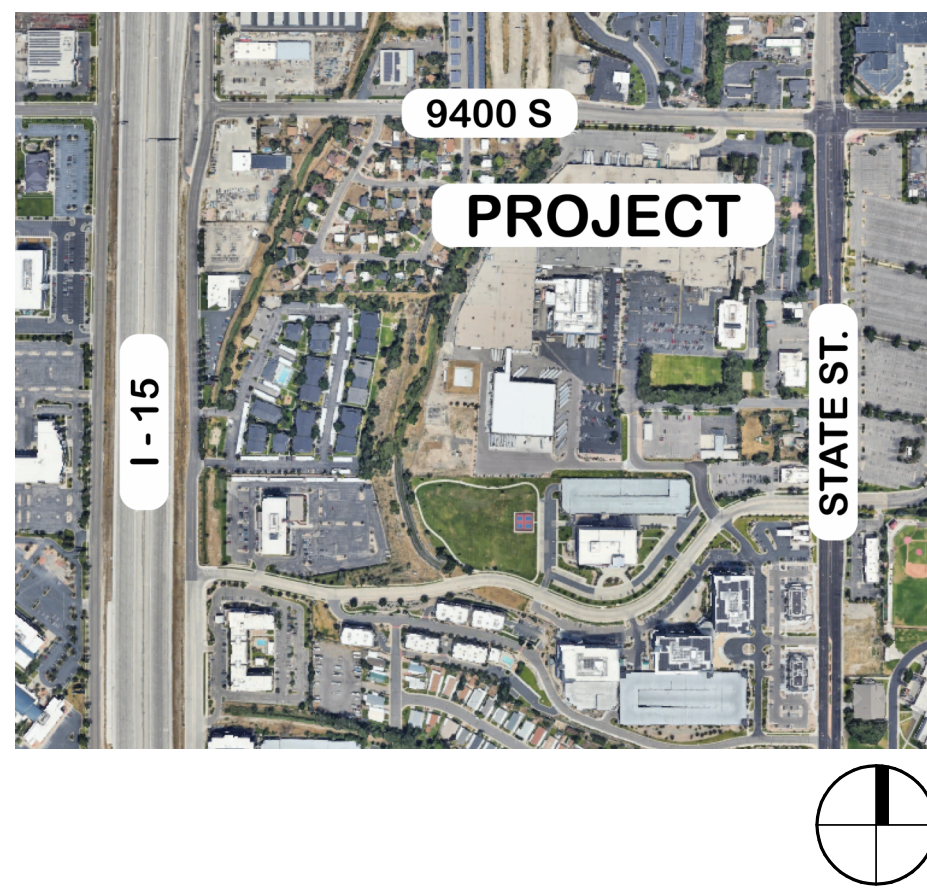
Construction Documents
February 06, 2024



ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
CMU	CONCRETE MASONRY UNIT
EIFS	EXTERIOR INSULATED FINISH
EQ	EQUAL
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
O.C.	ON CENTER
SPEC	SPECIFICATION
SIM	SIMILAR
TYP	TYPICAL
T.O.	TOP OF
B.O.	BOTTOM OF

SITE MAP

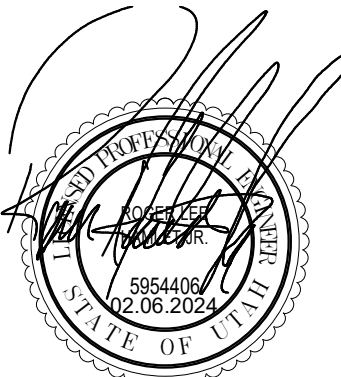


PROJECT TEAM

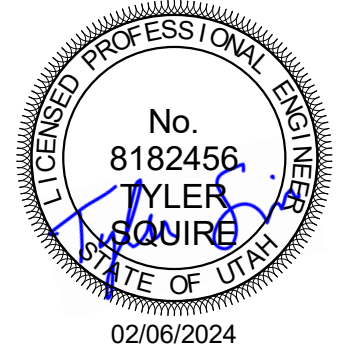
PROJECT ARCHITECT
FFKR ARCHITECTS
730 PACIFIC AVE
SALT LAKE CITY, UT 84104
801.521.6186



MECHANICAL ENGINEER
COLVIN ENGINEERS
505 E SOUTH TEMPLE, SUITE 100
SALT LAKE CITY, UTAH 84102
801.322.2400



ELECTRICAL ENGINEER
SPECTRUM ENGINEERS
324 S STATE ST, SUITE 400
SALT LAKE CITY, UTAH 84111
801.328.5151



DRAWING INDEX

SHEET NO.	SHEET NAME
GENERAL	
G000	COVER
ARCHITECTURAL	
AE100	PLANS, WALL TYPES, DOOR SCHEDULE
AE401	INTERIOR ELEVATIONS
AE500	DETAILS
AE501	DETAILS & FINISH LEGEND
MECHANICAL	
M001	MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS
FP101	LEVEL 1 FIRE PROTECTION PLAN
MH101	LEVEL 1 MECHANICAL PLANS
MH501	DUCT DETAILS
MH601	MECHANICAL SCHEDULES
PLUMBING	
PL100	UNDERGROUND PLUMBING PLANS
PL101	LEVEL 1 PLUMBING PLANS
PL301	PLUMBING SECTIONS
PL501	PLUMBING DETAILS
PL601	PLUMBING SCHEDULES
PL701	COLD WATER PLUMBING SCHEMATICS
PL702	HOT WATER SCHEMATICS
ELECTRICAL	
EE001	ELECTRICAL COVER SHEET
EE701	TYPICAL MOUNTING DETAILS
ED101	LEVEL 1 ELECTRICAL DEMOLITION PLAN
EL101	LEVEL 1 LIGHTING PLAN
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EP101	LEVEL 1 POWER PLAN
EY101	LEVEL 1 AUXILIARY PLAN

MATERIAL LEGEND

	GYPSUM BOARD OR CONCRETE SURFACE
	CONCRETE
	STUD WALL
	GRAVEL
	COMPACTED FILL AND/OR EARTH
	CMU (CONCRETE MASONRY UNIT)
	BATT INSULATION
	RIGID INSULATION

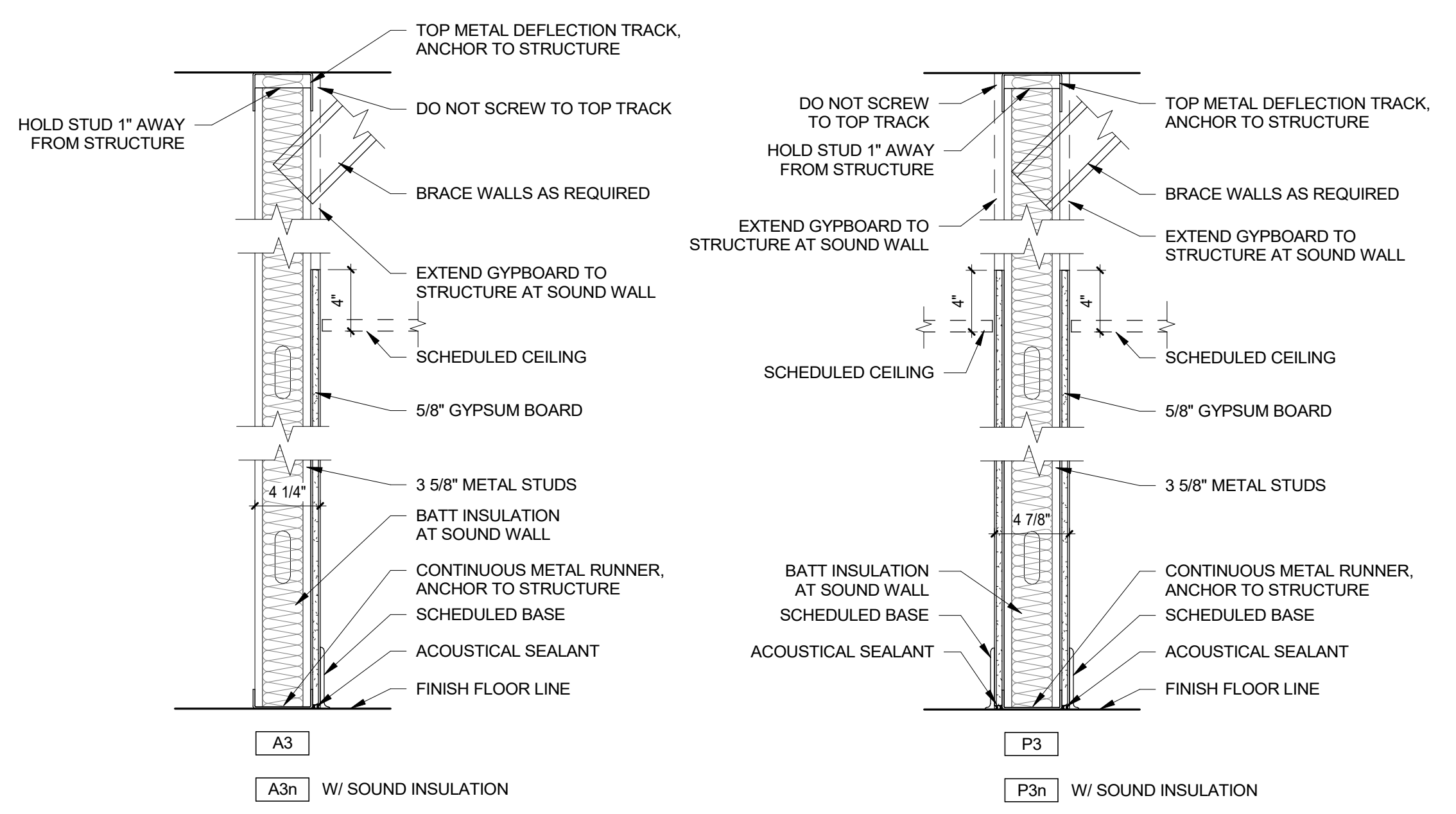
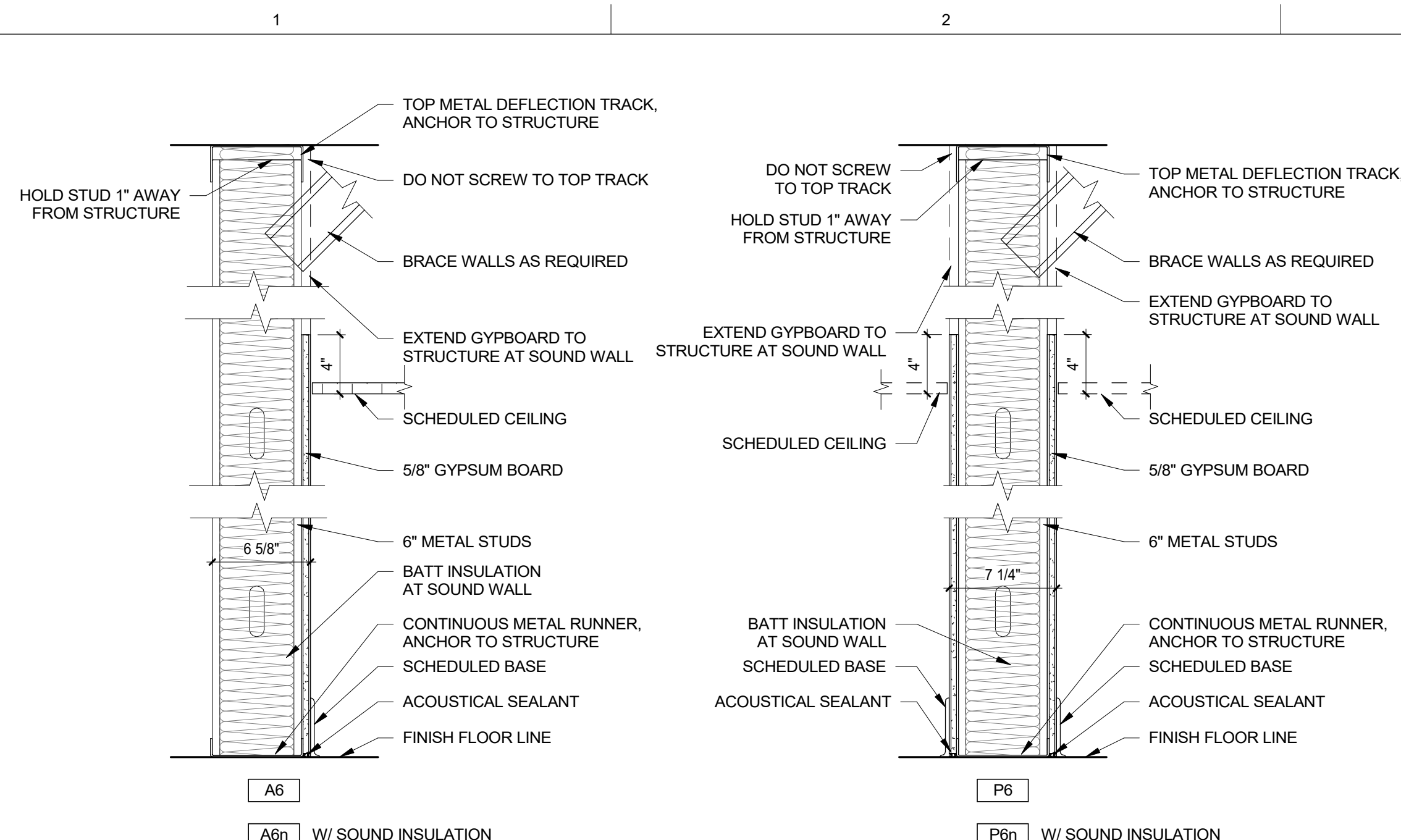
SYMBOLS LEGEND

ROOM IDENTIFICATION NUMBER	ROOM NAME ROOM NAME NUM ROOM NUMBER
DOOR NUMBER	XXX
REFERENCE NOTE	XX.XX
GLAZING TYPE	X
PARTITION WALL TYPE	XX
INTERIOR ELEVATION	A1 SHADE INDICATES ELEVATED WALL A2 ELEVATION NUMBER A3 SHEET NUMBER
BUILDING SECTION	SECTION NUMBER SHEET NUMBER
WALL SECTION	SECTION NUMBER SHEET NUMBER
EXTERIOR ELEVATION	ELEVATION NUMBER SHEET NUMBER
DETAIL	DETAIL NUMBER SHEET NUMBER
DETAIL TITLE	A1 DETAIL SCALE:
REVISION DELTA	2 REVISION NUMBER

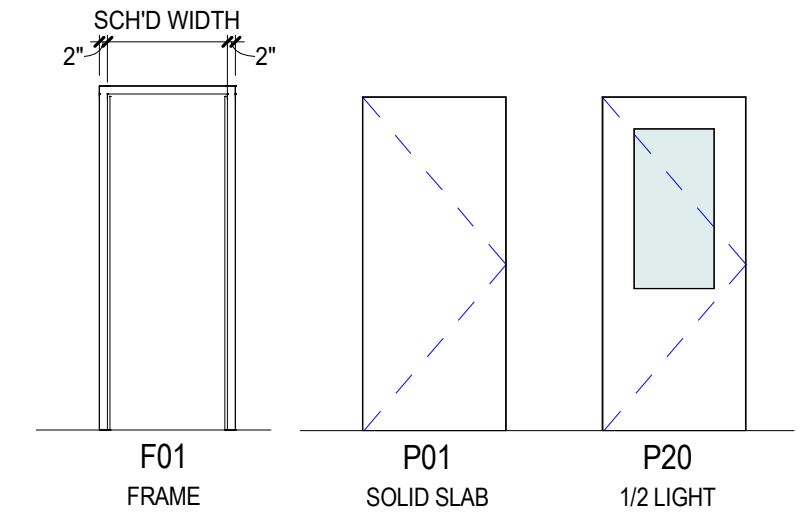
PROJECT SUMMARY & CODE ANALYSIS

THE PROJECT SCOPE INCLUDES REMODEL OF EXISTING RESTROOMS WITH NEW FINISHES, TOILET STALL PARTITIONS, FIXTURES, NEW WATER CLOSETS, AND NEW DOORS AND FRAMES. THE ADJACENT CUSTODIAL ROOM WILL ALSO BE REMODELED WITH NEW DOOR, NEW PAINT & FINISHES. NEW LIGHTING AND UPGRADED HVAC SYSTEMS WILL BE INCLUDED AT THE REMODEL AREAS. EXISTING, NUMBER OF OCCUPANTS AND BUILDING AREA REMAIN UNCHANGED.

2/5/2024 1:01:55 PM



DOOR NUMBER	SIZE		THICK	LEAF 1 TYPE	LEAF 2 TYPE	MATERIAL	FRAME		FIRE RATING	HARDWARE GROUP	NOTES	REVISIONS
	WIDTH	HEIGHT					TYPE	MATERIAL				
LEVEL 1												
101	3'-0"	7'-0"	1 3/4"	P01		HM	F01	HM		01	FRAME & PANEL: P3	
102	3'-0"	7'-0"	1 3/4"	P01		HM	F01	HM		01	FRAME & PANEL: P3	
102B	1'-6"	7'-0"	1 3/4"	P01		HM	F01	HM		02	COLOR MATCH TILE	
103	3'-0"	7'-0"	1 3/4"	P01		HM	F01	HM		01	FRAME & PANEL: P3	
103B	1'-6"	7'-0"	1 3/4"	P01		HM	F01	HM		02	COLOR MATCH TILE	
103C	1'-6"	7'-0"	1 3/4"	P01		HM	F01	HM		02	COLOR MATCH TILE	
104	3'-0"	7'-0"	1 3/4"	P20		HM	F01	HM		03	FRAME & PANEL: P3	



DOOR FRAMES & PANELS
SCALE: N.T.S.

REFERENCE NOTES

- 02.01 DEMO EXISTING SHELVING COMPLETE
- 02.02 DEMO EXISTING WALL AND FLOOR TILING COMPLETE, PREP FOR NEW TILING
- 02.03 EXISTING FLOOR SINK & CLEANOUT, RE-PLUMBING
- 02.04 DEMO EXISTING DOOR AND FRAME TO BE REPLACED
- 02.05 DEMO EXISTING UTILITY SINK TO BE REPLACED
- 02.06 SAWCUT SLAB AT (E) WATER CLOSETS & REMOVE (E) FLANGE, TYPICAL, RE-PLUMBING. SEE DETAIL FOR TRENCH INFILL
- 02.07 DEMO CEILING
- 05.11 LOCATE NEW WALL CLEAR OF EXISTING FLOOR DRAIN, RELOCATE PLUMBING AND VENT FOR NEW WASHER / DRYER
- 06.06 BLOCKING IN WALL FOR WALL HUNG EQUIPMENT
- 09.13 NEW WALL BASE, AND STAINLESS STEEL CORNER GUARDS, MATCH EXISTING ADJACENT FINISHES.
- 09.14 PATCH EPOXY FLOOR
- 09.15 FLOOR TILE SHALL BE INSTALLED TO BE FLUSH OR SLIGHTLY ABOVE LEVEL OF FLOOR SINK
- 09.16 FURRING AROUND COLUMN
- 10.06 RECESSED TOWEL AND WASTE, CFI
- 10.07 HAND DRYER, CFI
- 10.08 AMBULATORY STALL
- 10.12 ROOM SIGNAGE, SEE DETAILS
- 11.01 PLASTIC LAMINATE SHELVING WITH ADJUSTABLE WALL BRACKETS, COORDINATE WITH SURFACE-MOUNTED ITEMS
- 11.02 WASHER / DRYER BY OWNER

FINISH LEGEND

Room name	ROOM IS NOT ELEVATED, ALL FINISHES ARE SHOWN IN THE TAG
101	F = FLOOR FINISH
F B W	B = BASE FINISH
	W = WALL FINISH

SEE FINISH LEGEND FOR FINISHES

GENERAL NOTES

- PROVIDE CEMENTITIOUS BACKER BOARD AT ALL WALLS TO RECEIVE TILING.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL RESTROOM WALLS INDICATED TO RECEIVE PAINT. PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM CEILINGS.
- ALL TOILET ROOM WALL PARTITIONS TO BE FILLED WITH ACOUSTIC INSULATION.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION. IF DISCREPANCIES ARE IDENTIFIED THEN NOTIFY ARCHITECT IMMEDIATELY PRIOR TO PROCEEDING WITH THE WORK.
- AT ALL LOCATIONS WHERE CEILINGS ARE OPEN TO STRUCTURE ABOVE, EXTEND ALL WALLS, INCLUDING METAL STUDS, INSULATION, & GYPSUM BOARD TO THE UNDERSIDE OF THE STRUCTURE ABOVE.
- CONTRACTOR SHALL PROVIDE BLOCKING IN WALLS AND ALL ANCHORING FASTENING DEVICES REQUIRED FOR EQUIPMENT AND WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO DOORSTOPS, FIXTURES, SHELVING, COUNTERS, TOILET ACCESSORIES, HAND RAILS, EQUIPMENT RACKS, ETC.
- PROVIDE GYPSUM BOARD CONTROL JOINTS WHEN LENGTH OF GYPSUM BOARD EXCEEDS 30'-0" LENGTH. COORDINATE WITH ARCHITECT FOR CONTROL JOINT LOCATIONS.
- SEE CEILING DETAILS FOR TYPICAL SUSPENDED CEILING SEISMIC BRACING.
- LOCATE SPRINKLER HEADS, LIGHT FIXTURES, GRILLES AND DIFFUSERS, SPEAKERS, ETC. CENTERED IN CEILING TILES, TYPICAL (WHERE INDICATED TO BE INSTALLED IN CEILING TILE LOCATIONS).
- ALL CEILING MOUNTED EQUIPMENT INCLUDING, BUT NOT LIMITED TO, UNISTRUTS, LIGHTING, DIFFUSERS, SPRINKLER HEADS, SPEAKERS, ETC. TO BE FLUSH MOUNTED TO THE CEILING, U.N.O. VERIFY WITH ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

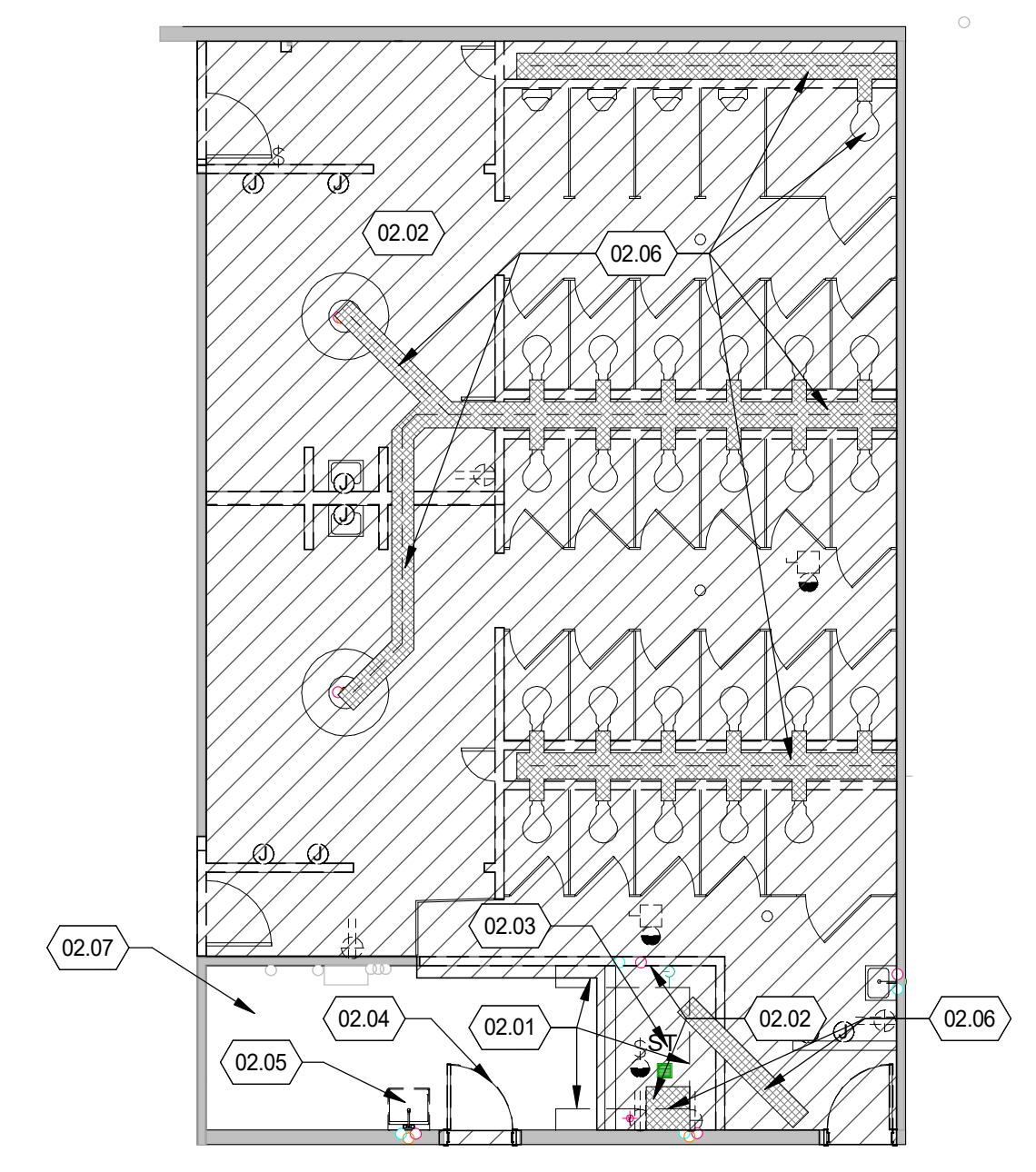
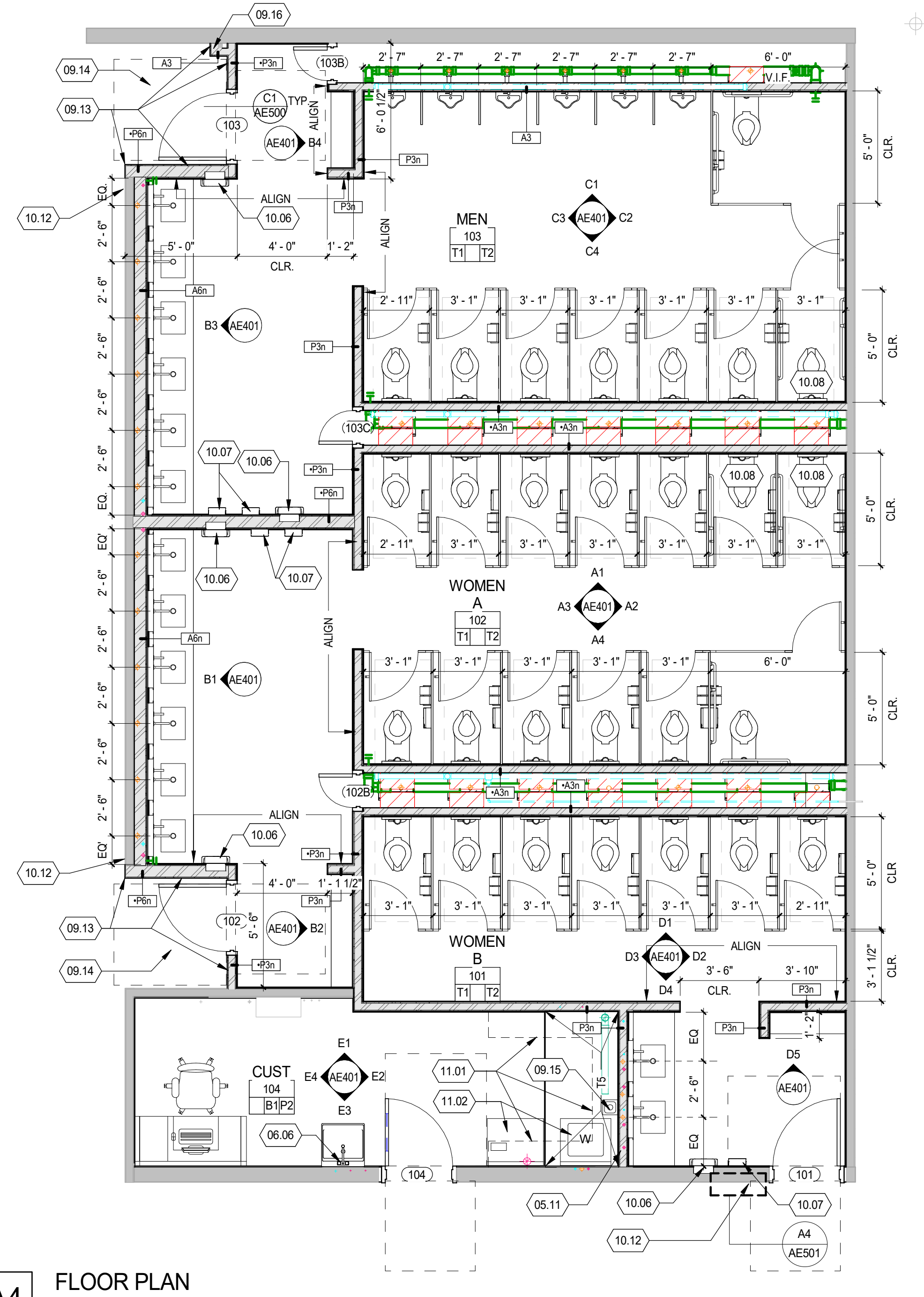
CEILING LEGEND

HEIGHT ABOVE FINISHED FLOOR	ROOM NAME	RM NO	C	C = CEILING TYPE
HT				
				PNT = CEILING FINISH

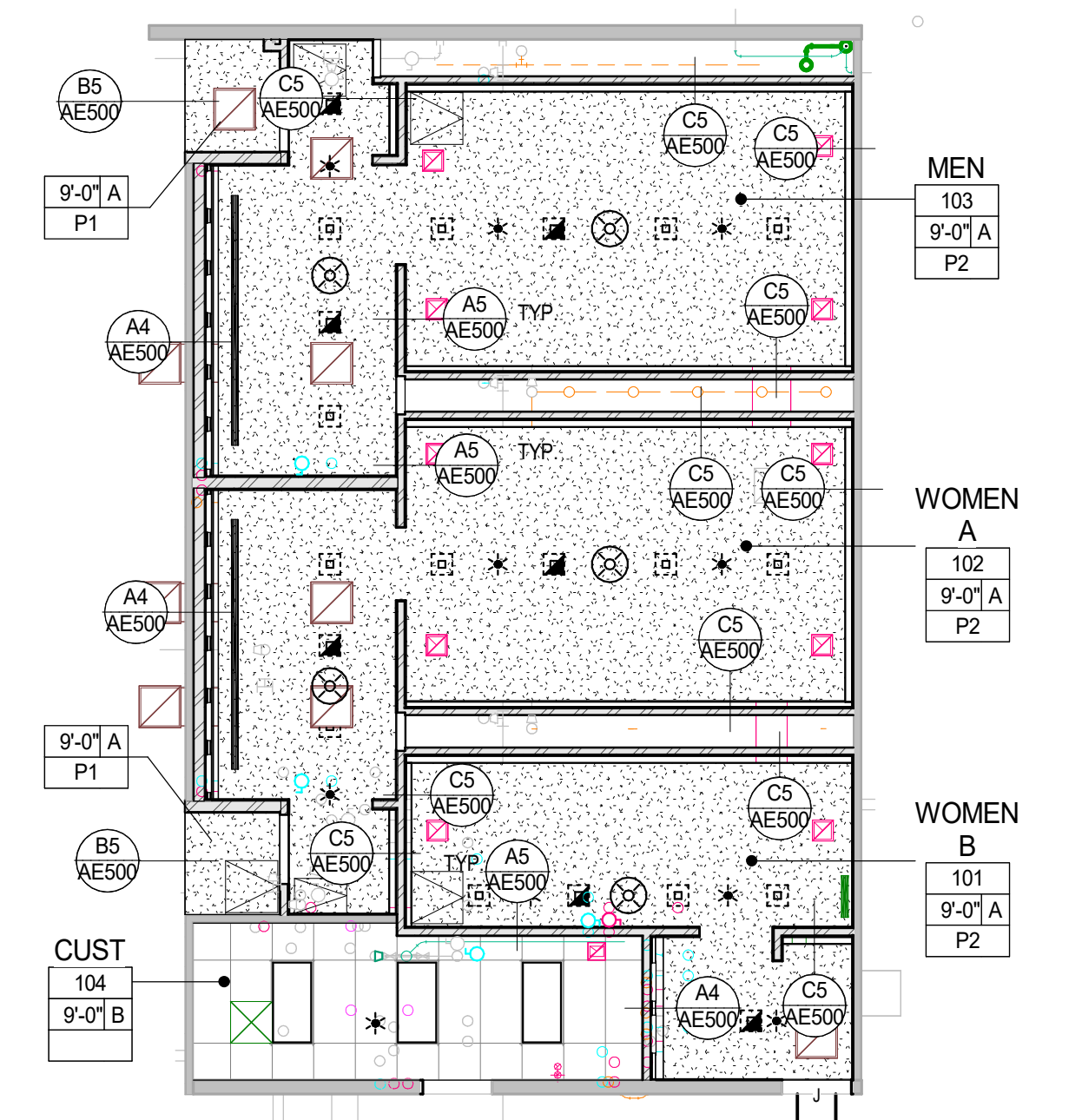
- CEILING TYPE**
- A GYPSUM BOARD - SUSPENDED
 - B ACT-1:2 X 4 LAY IN TILES IN SUSPENDED GRID SYSTEM

PARTITION LEGEND

- EXAMPLE: •P6An
- WALL HEIGHT
PARTITION TYPE
WALL THICKNESS
- WALL HEIGHT:
• : WALL & GYPSUM BOARD EXTENDS TO DECK
: GYPSUM BOARD EXTENDS 6" PAST CEILING
- PARTITION TYPE:**
A: CAVITY WALL (GYP. BD + STUD)
P: TYPICAL METAL STUD PARTITION (GYP. BD. + STUD + GYP. BD.)
- WALL THICKNESS:**
3: 3 1/2" METAL STUD
6: 6" METAL STUD



A1 DEMO PLAN
SCALE: 1/8" = 1'-0"



A3 REFLECTED CEILING
SCALE: 1/8" = 1'-0"

A4 FLOOR PLAN
SCALE: 1/4" = 1'-0"



DATE REVISION

PROJECT NUMBER 23100

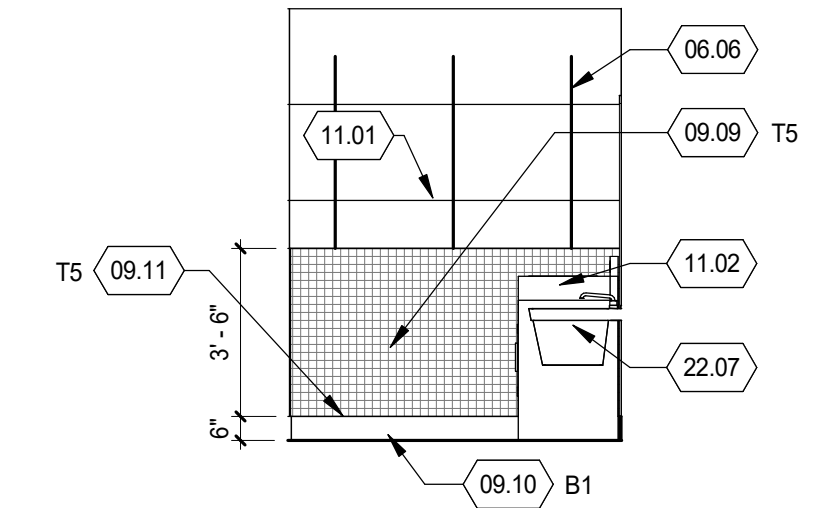
PLANS, WALL TYPES, DOOR SCHEDULE

AE100

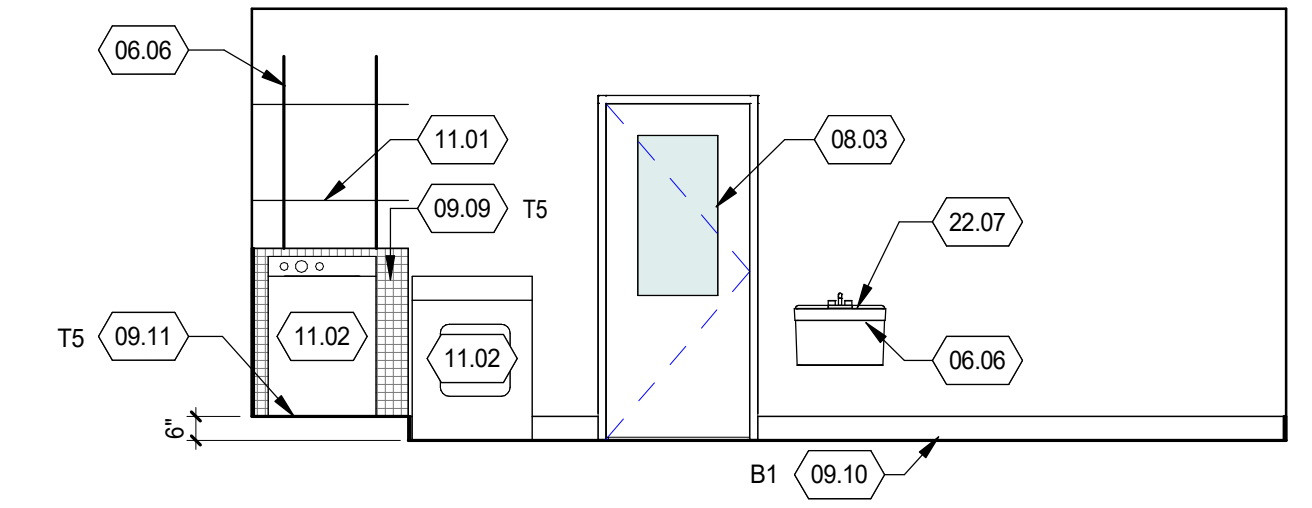
2/15/2024 1:01:57 PM



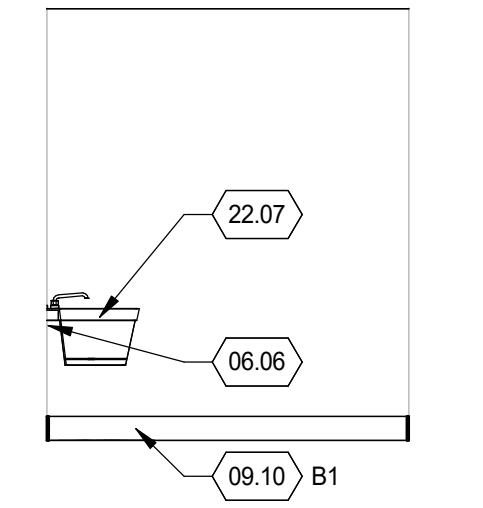
E1 CUSTODIAN - NORTH
SCALE: 1/4" = 1'-0"



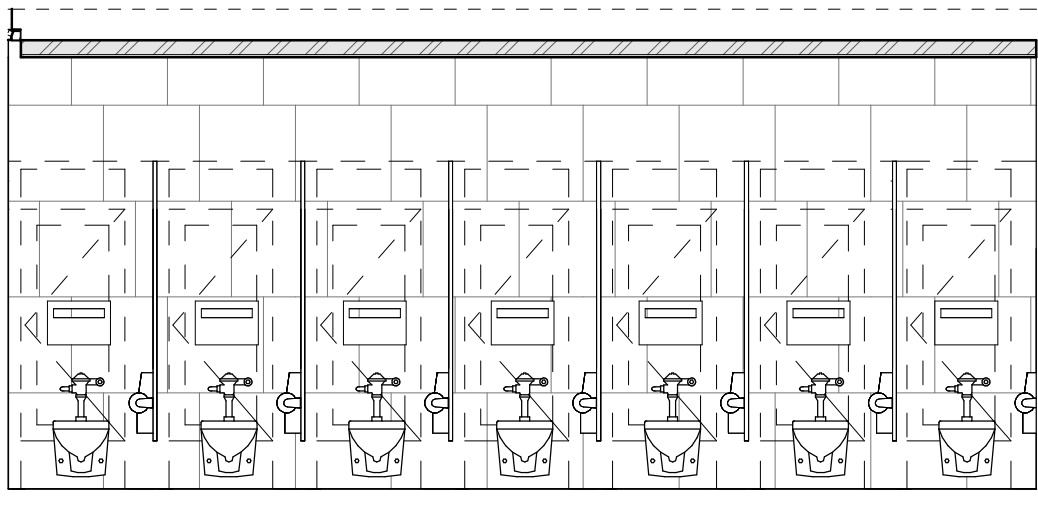
E2 CUSTODIAN - EAST
SCALE: 1/4" = 1'-0"



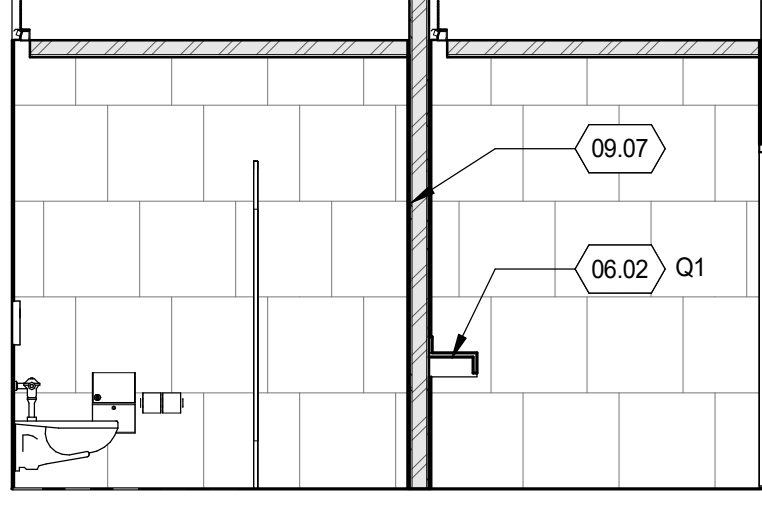
E3 CUSTODIAN - SOUTH
SCALE: 1/4" = 1'-0"



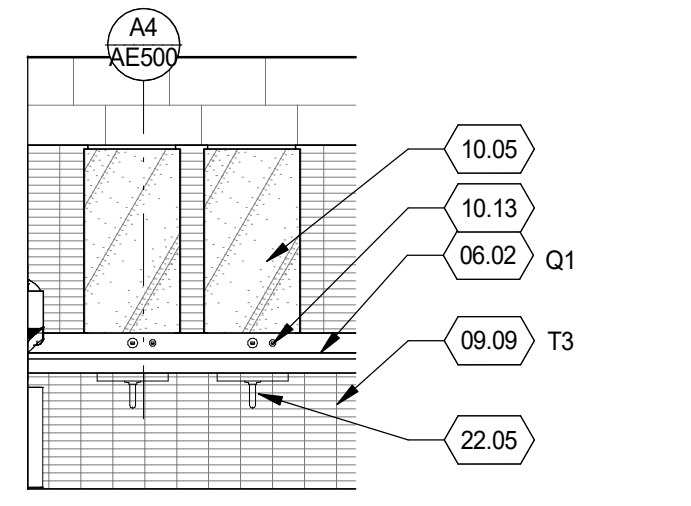
E4 CUSTODIAN WEST
SCALE: 1/4" = 1'-0"



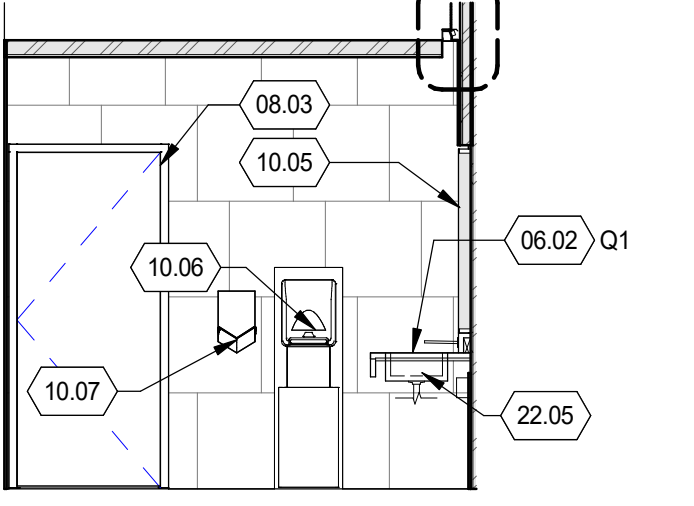
D1 WOMEN B - NORTH
SCALE: 1/4" = 1'-0"



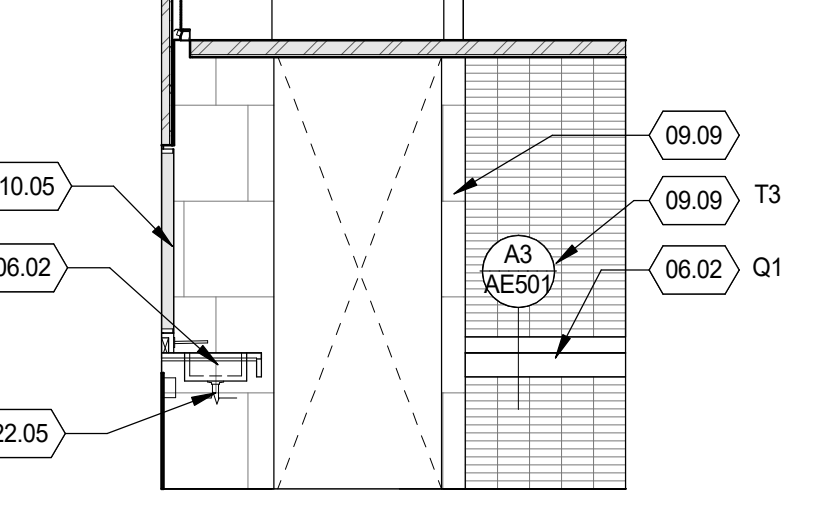
D2 WOMEN B - EAST
SCALE: 1/4" = 1'-0"



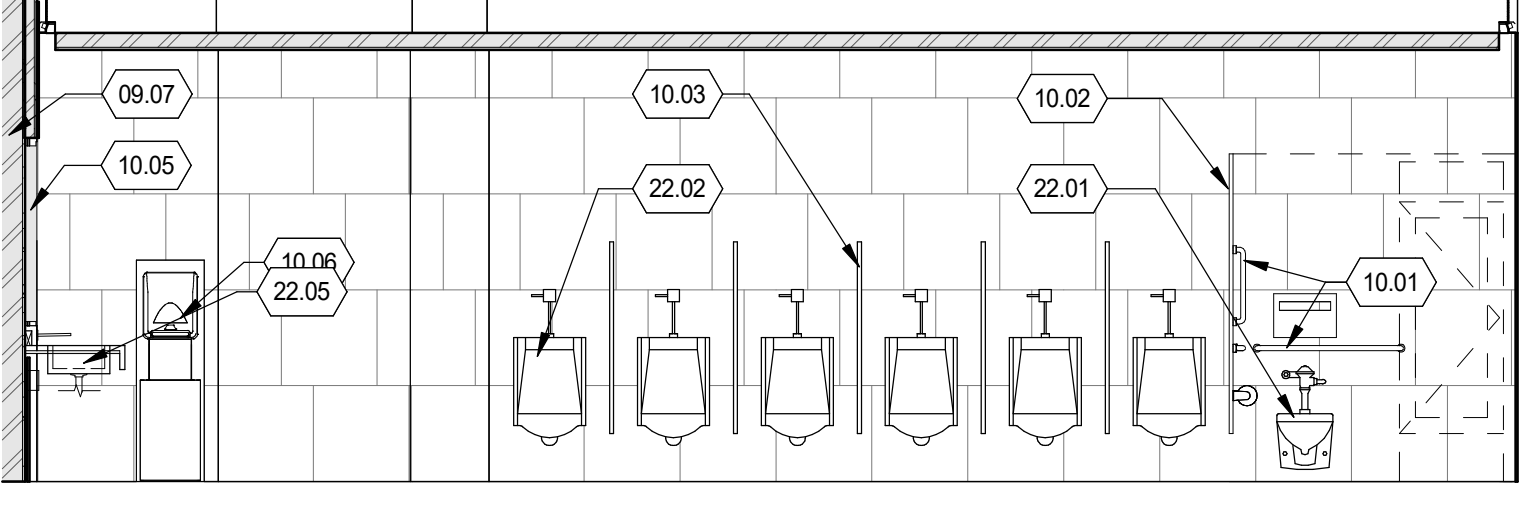
D3 WOMEN B - WEST
SCALE: 1/4" = 1'-0"



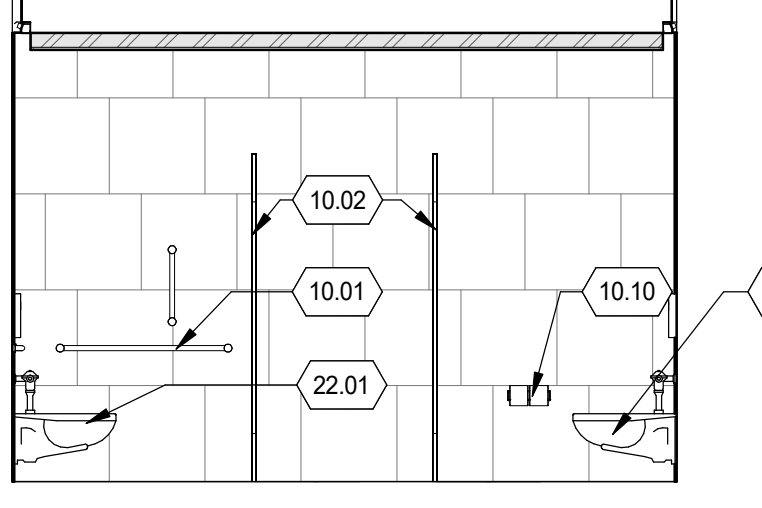
D4 WOMEN B - SOUTH
SCALE: 1/4" = 1'-0"



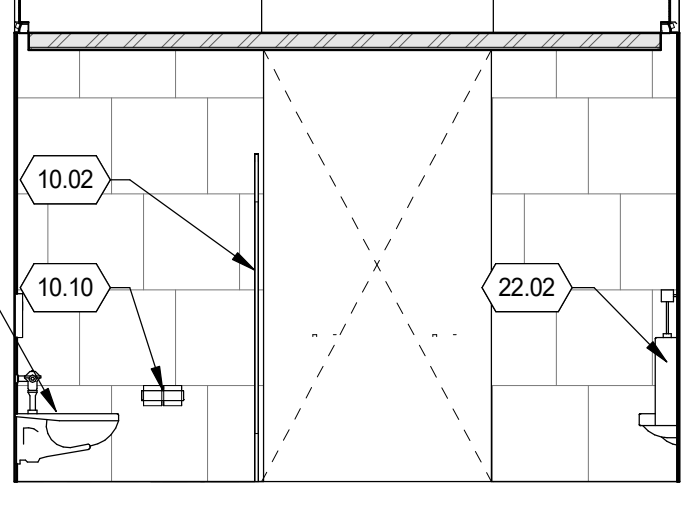
D5 WOMEN B - VESTIBULE NORTH
SCALE: 1/4" = 1'-0"



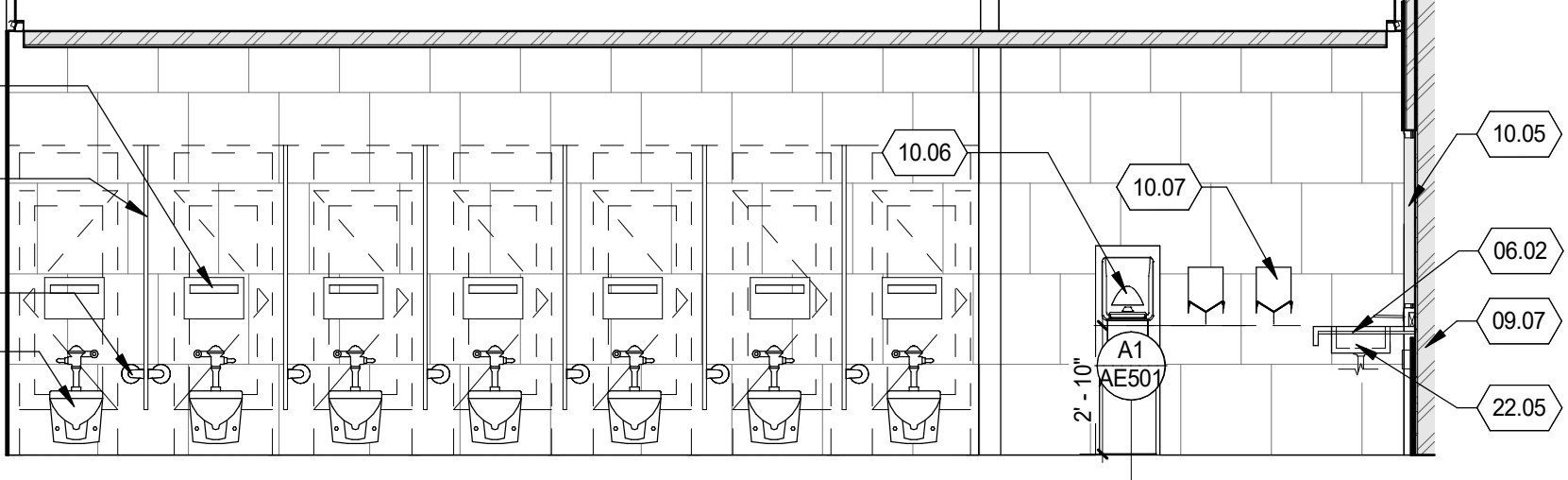
C1 MEN - NORTH
SCALE: 1/4" = 1'-0"



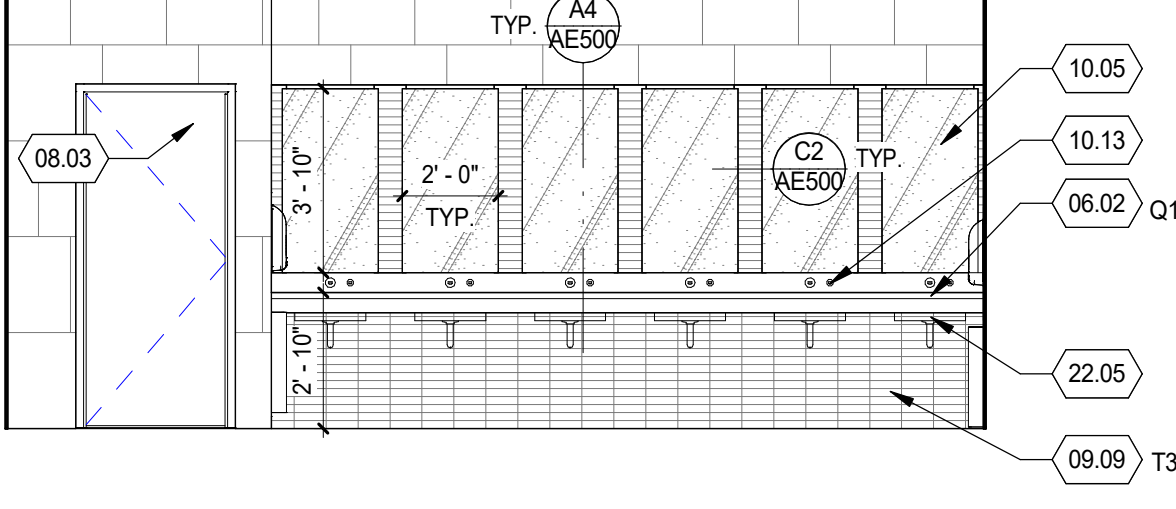
C2 MEN - EAST
SCALE: 1/4" = 1'-0"



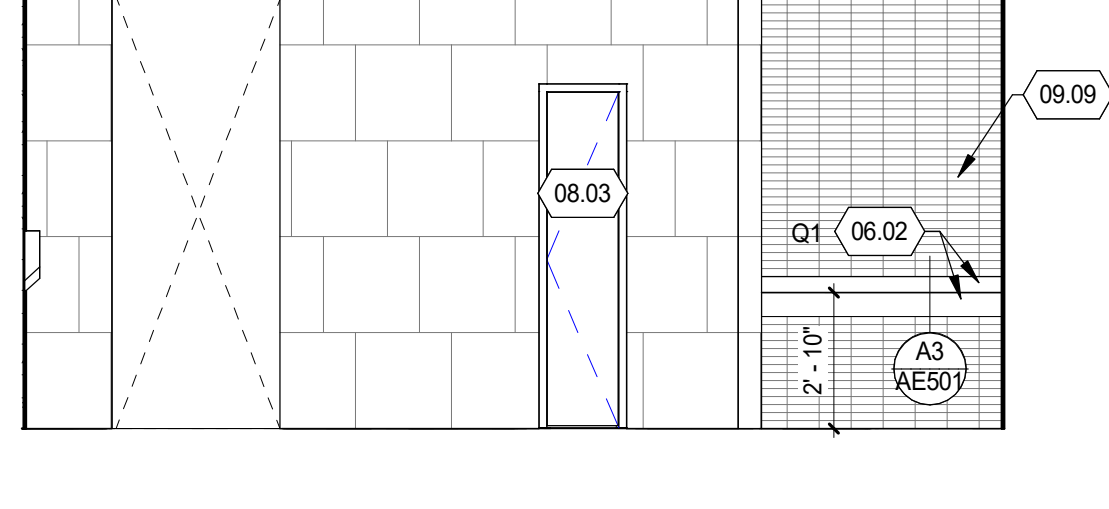
C3 MEN - WEST
SCALE: 1/4" = 1'-0"



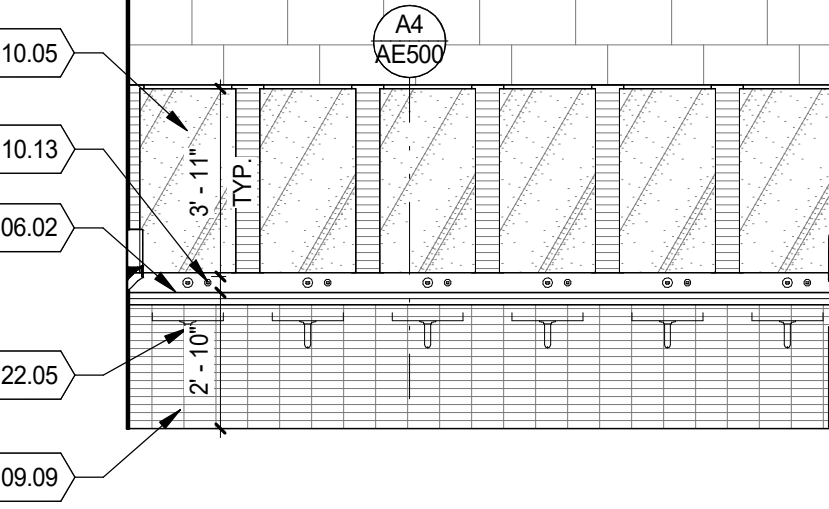
C4 MEN - SOUTH
SCALE: 1/4" = 1'-0"



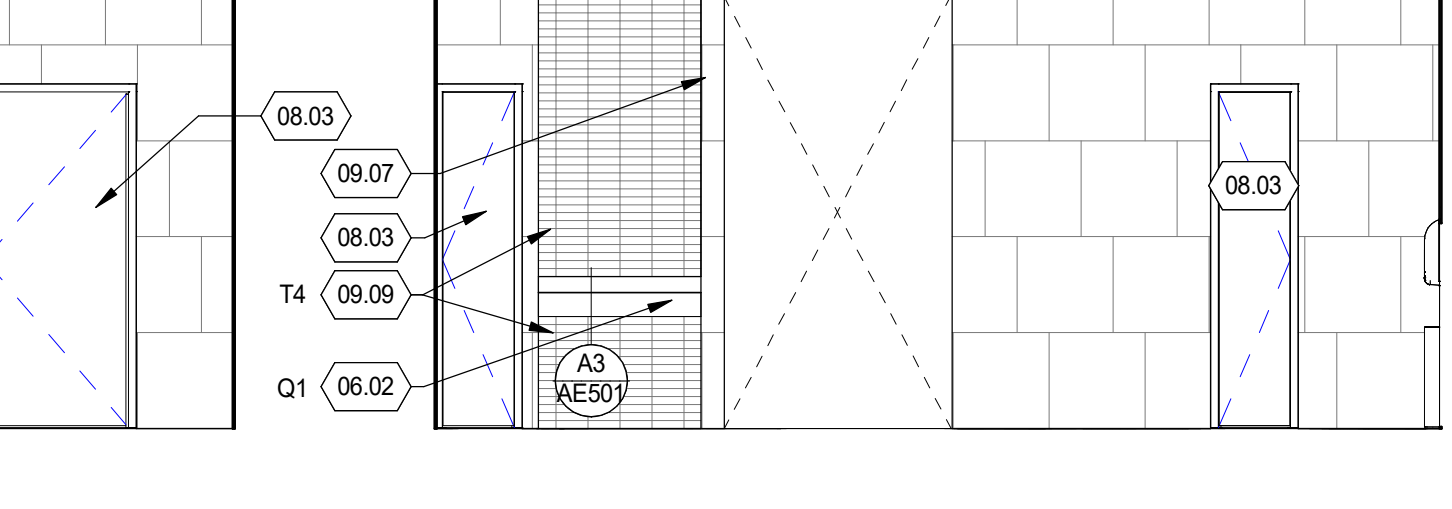
B1 WOMEN A - LAVATORIES WEST
SCALE: 1/4" = 1'-0"



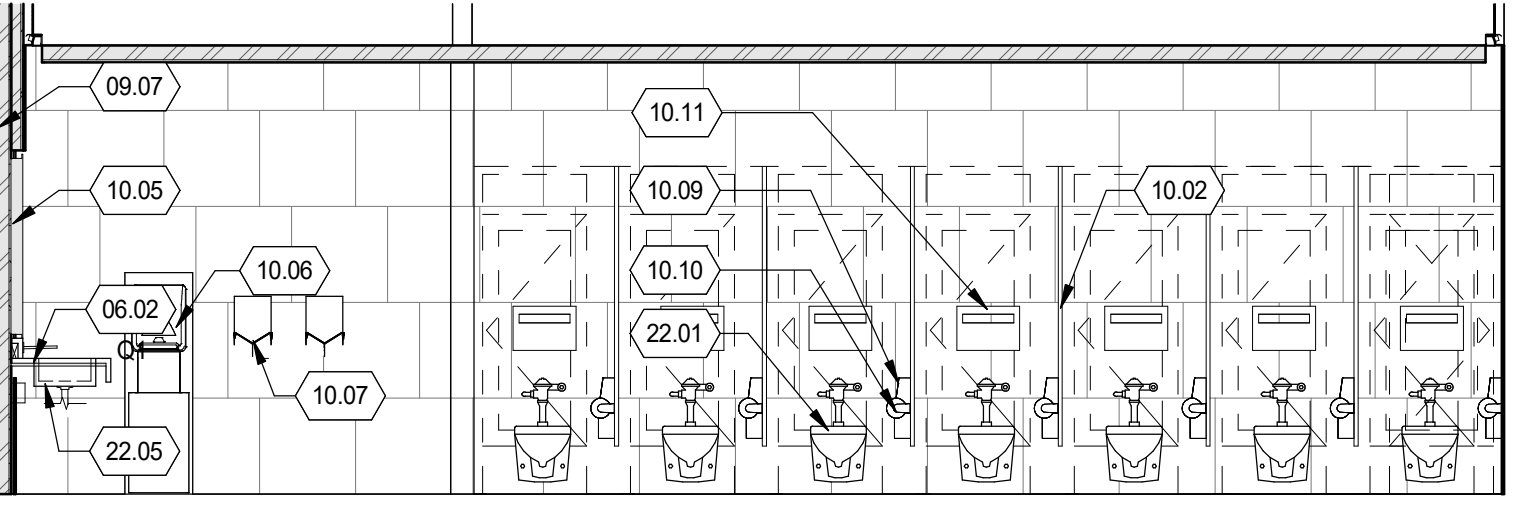
B2 WOMEN A - VESTIBULE EAST
SCALE: 1/4" = 1'-0"



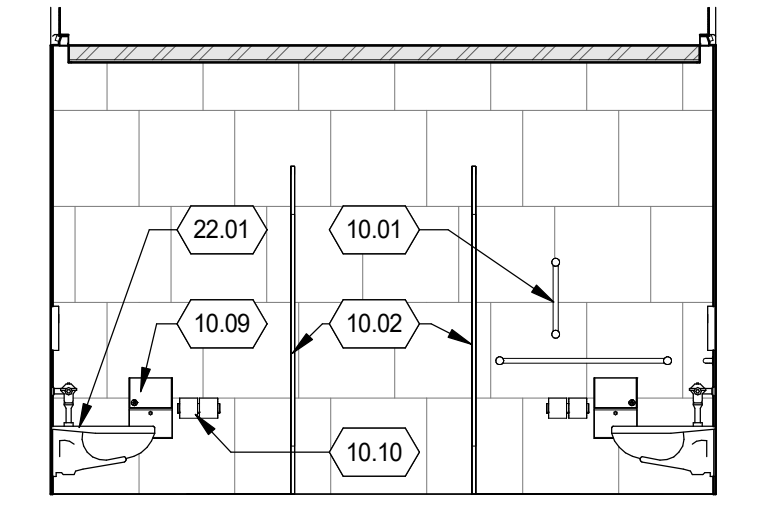
B3 MEN - LAVATORIES WEST
SCALE: 1/4" = 1'-0"



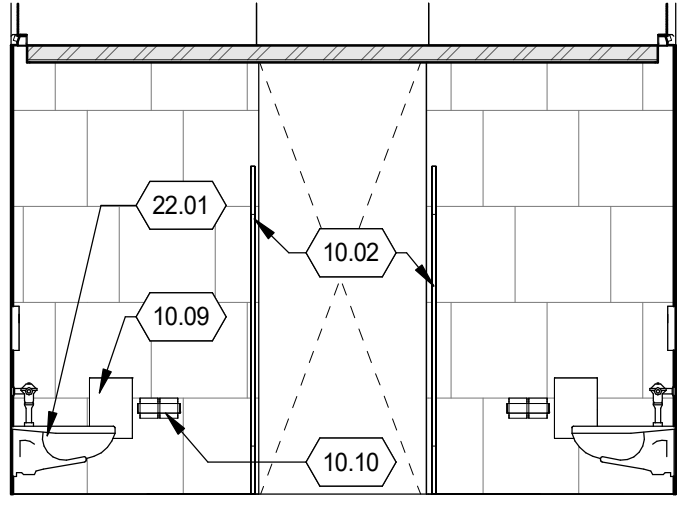
B4 MEN - VESTIBULE EAST
SCALE: 1/4" = 1'-0"



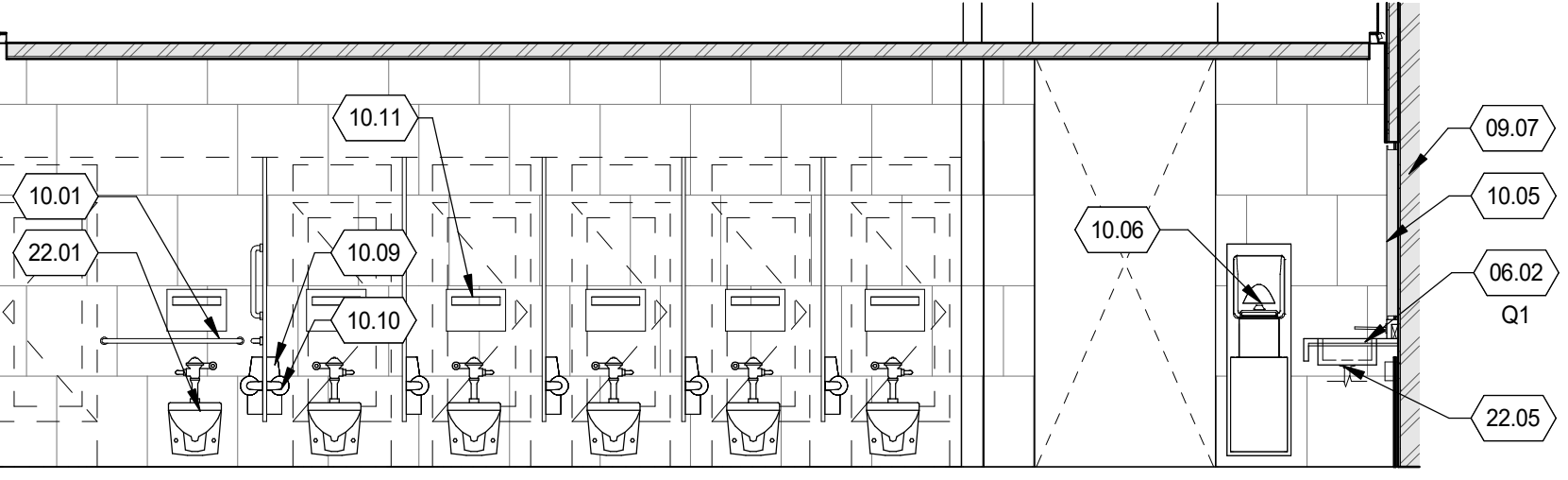
A1 WOMEN A - NORTH
SCALE: 1/4" = 1'-0"



A2 WOMEN A - EAST
SCALE: 1/4" = 1'-0"



A3 WOMEN A - WEST
SCALE: 1/4" = 1'-0"



A4 WOMEN A - SOUTH
SCALE: 1/4" = 1'-0"

REFERENCE NOTES

- 06.02 SOLID SURFACE COUNTERTOP
- 06.06 BLOCKING IN WALL FOR WALL HUNG EQUIPMENT
- 08.03 DOOR
- 09.07 WALL
- 09.09 WALL TILE
- 09.10 WALL BASE
- 09.11 FLOOR TILE
- 10.01 GRAB BAR
- 10.02 TOILET PARTITION
- 10.03 URINAL PARTITION
- 10.05 MIRROR
- 10.06 RECESSED TOWEL AND WASTE, CFCI
- 10.07 HAND DRYER, CFCI
- 10.09 NAPKIN DISPOSAL, CFCI
- 10.10 TISSUE DISPENSER, OFOI
- 10.11 SEAT COVER DISPENSER, OFOI
- 10.13 SOAP DISPENSER
- 11.01 PLASTIC LAMINATE SHELVING WITH ADJUSTABLE WALL BRACKETS. COORDINATE WITH SURFACE-MOUNTED ITEMS
- 11.02 WASHER / DRYER BY OWNER
- 22.01 WATER CLOSET
- 22.02 URINAL
- 22.05 LAVATORY
- 22.07 UTILITY SINK

GENERAL NOTES

1. PROVIDE CEMENTITIOUS BACKER BOARD AT ALL WALLS TO RECEIVE TILING.
2. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL RESTROOM WALLS INDICATED TO RECEIVE PAINT.
3. PROVIDE UNDER-LAVATORY GUARD UNDER ALL TOILET ROOM SINKS.
4. FOR MOUNTING HEIGHTS SEE TYPICAL MOUNTING HEIGHT DETAILS. VERIFY WITH ARCHITECT FOR ITEMS NOT INDICATED.
5. PROVIDE PROPER BACKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT INCLUDING OFOI EQUIPMENT.



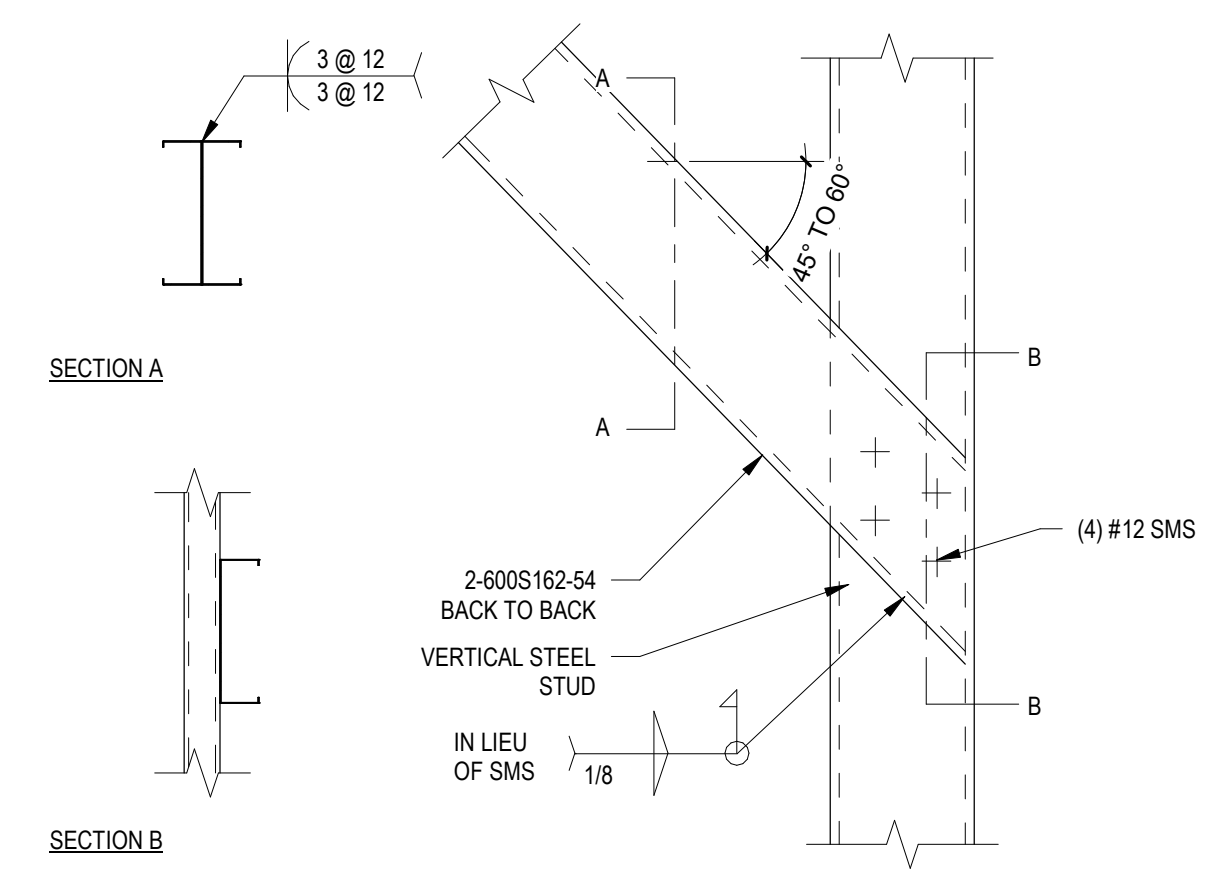
DATE REVISION

PROJECT NUMBER 23100

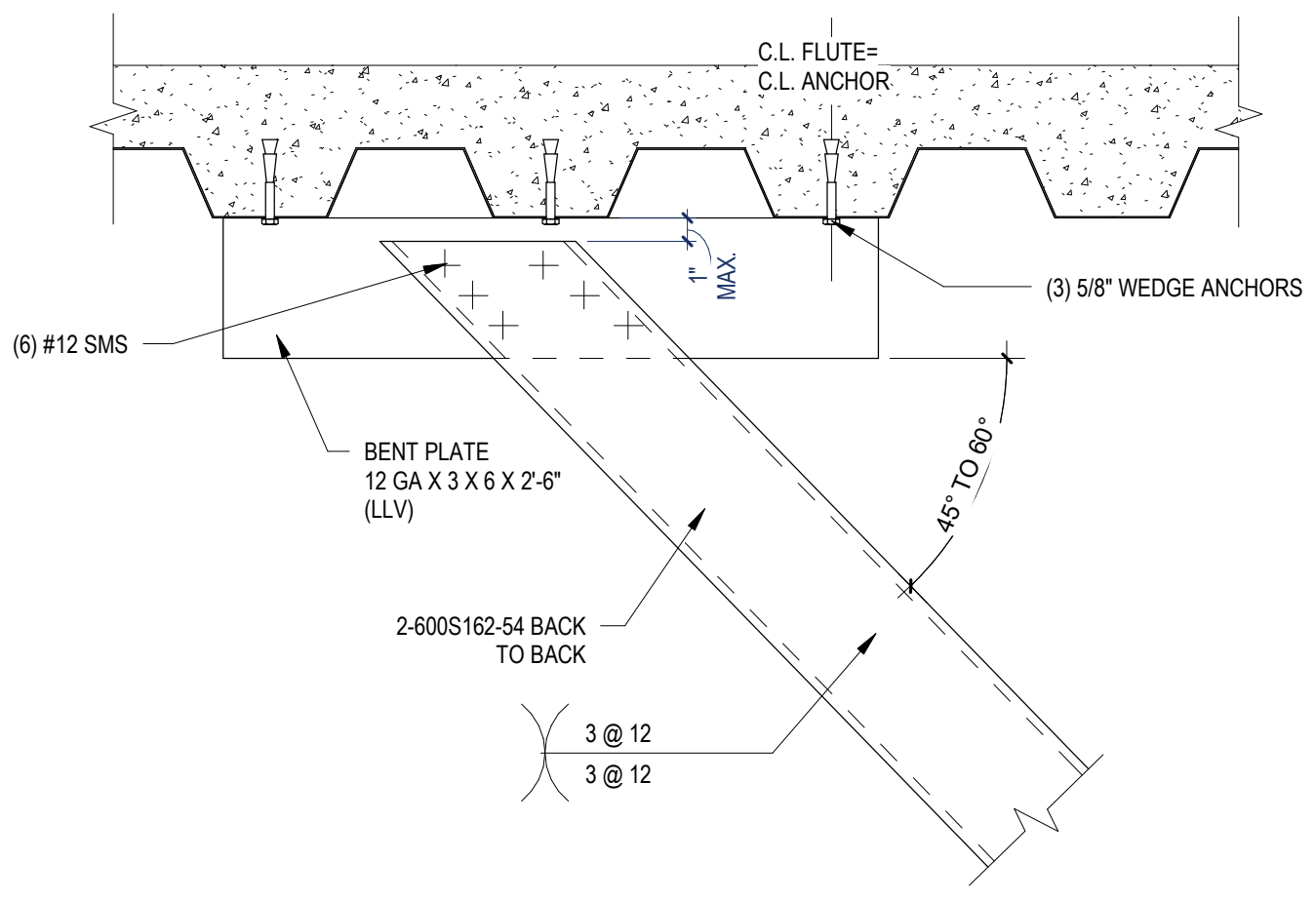
INTERIOR ELEVATIONS

AE401

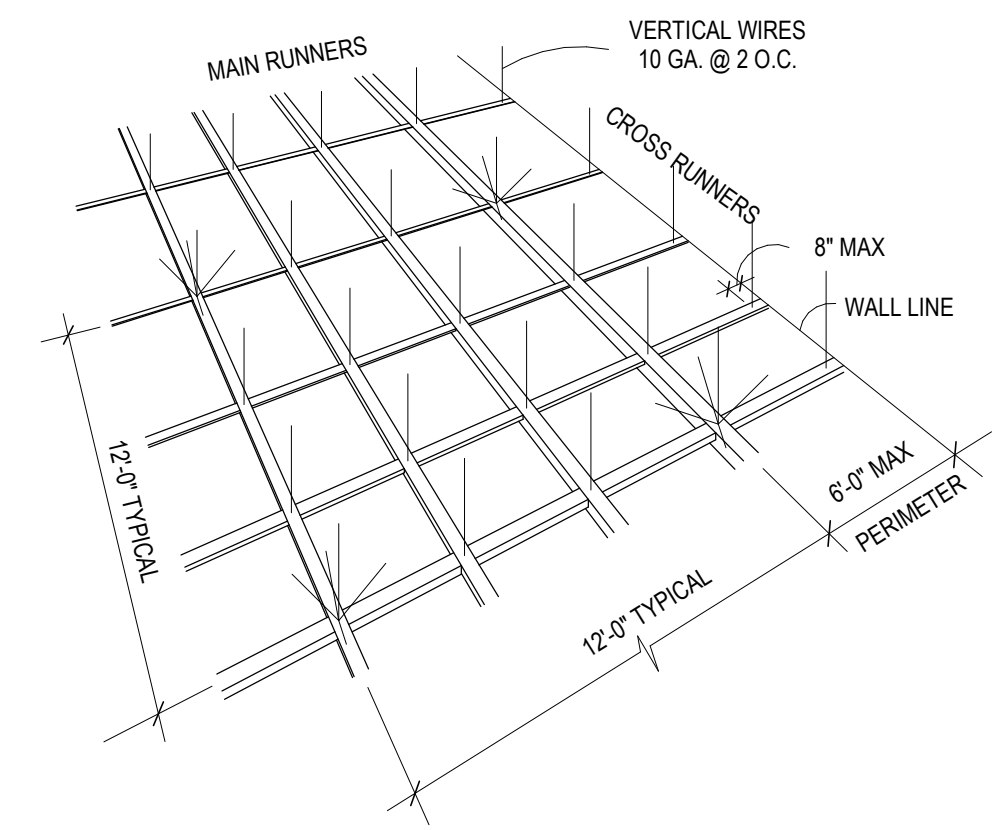
2/6/2024 11:34:23 AM



BRACE TO STUD
SCALE: 1-1/2" = 1'-0"



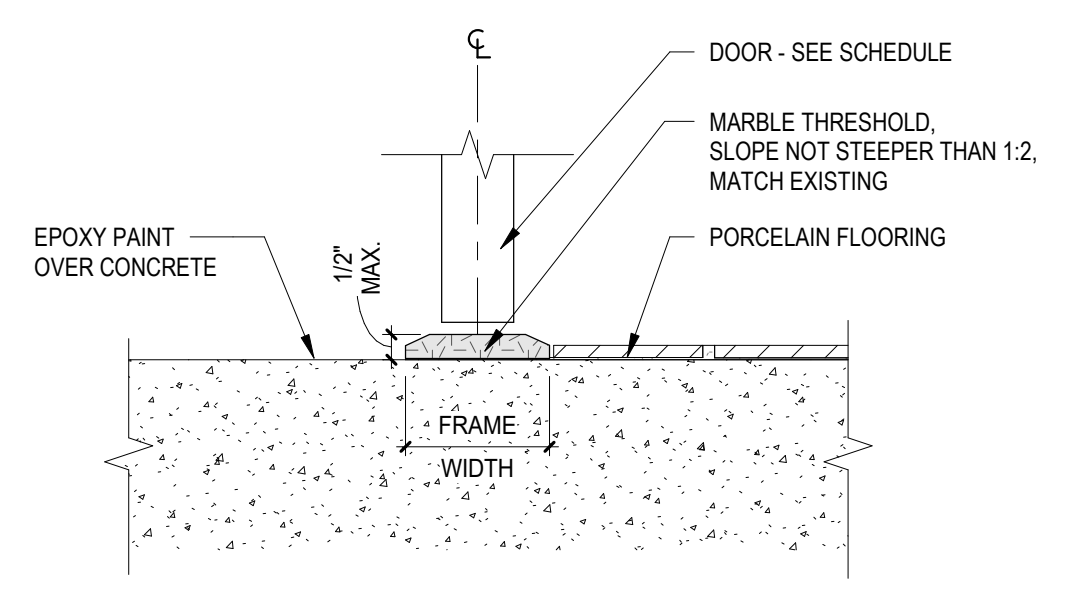
BRACE TO FLOOR OR ROOF DECK (PERP TO FLUTE)
SCALE: 1-1/2" = 1'-0"



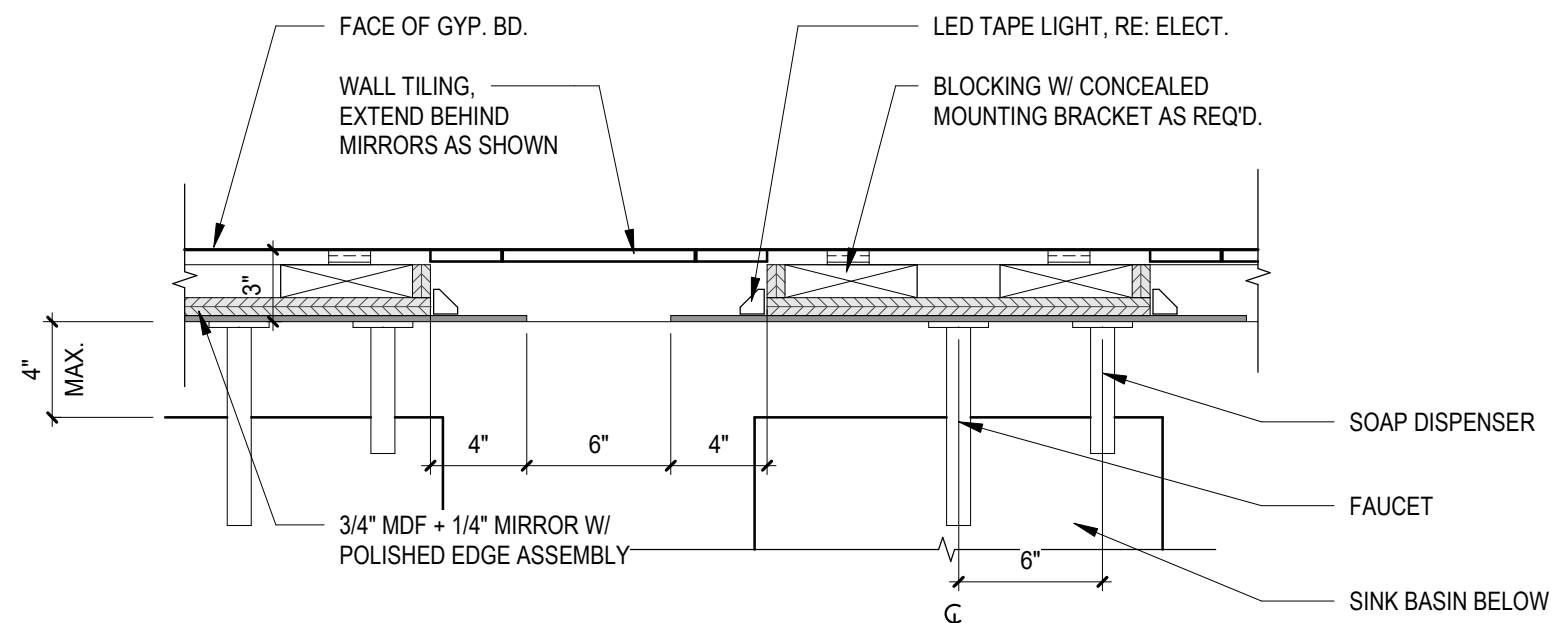
- NOTE:**
1. A CEILING AREA OF 144 SQ. FT. OR LESS SURROUNDED BY WALLS THAT CONNECT DIRECTLY TO THE STRUCTURE ABOVE SHALL BE EXEMPT FROM LATERAL LOAD DESIGN REQUIREMENTS OF THESE STANDARDS. IN EACH ORTHOGONAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED WITH AN ICC EVALUATED & APPROVED SEISMIC CLIP SYSTEM AND 0.75" OF CLEARANCE TO ALLOW FREE HORIZONTAL MOVEMENT.
 2. LATERAL CEILING BRACING IS REQUIRED @ 12'-0" O.C. IN BOTH DIRECTIONS FOR ALL CEILINGS GREATER THAN 1,000 SF.
 3. CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS.
 4. LIGHT FIXTURES, MECHANICAL EQUIPMENT, ETC. MUST BE SUPPORTED INDEPENDENT OF THE CEILING SUPPORT/BRACKETING SYSTEM.

D1 WALL BRACING
SCALE: 1 1/2" = 1'-0"

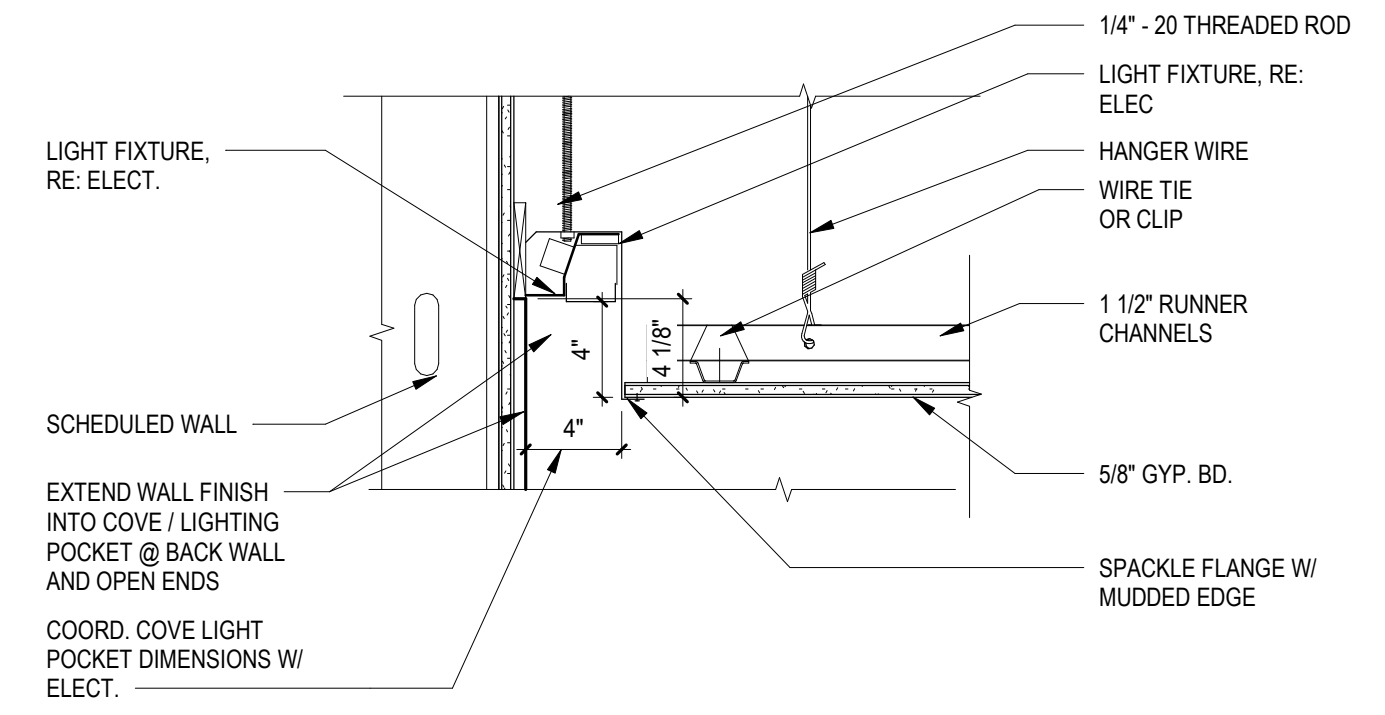
D4 TYPICAL CEILING SEISMIC BRACING DETAIL
SCALE: 3" = 1'-0"



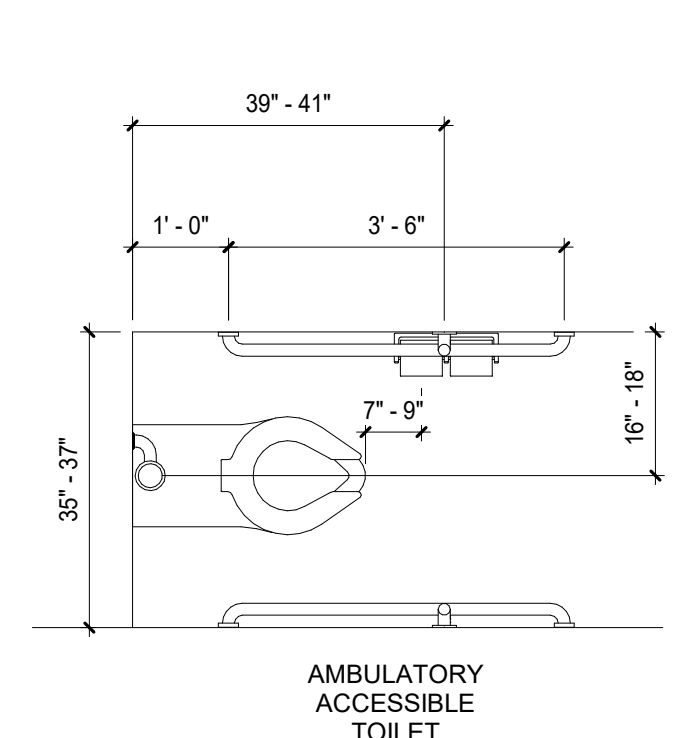
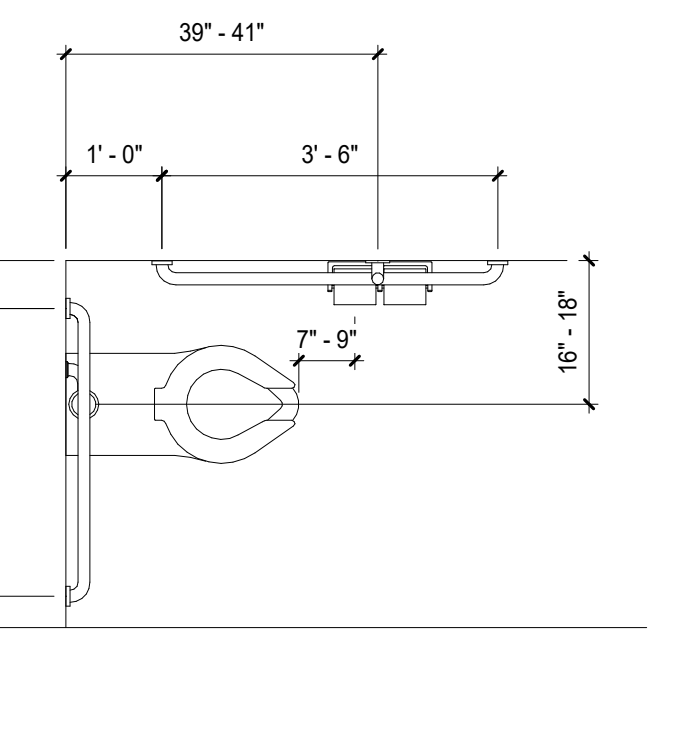
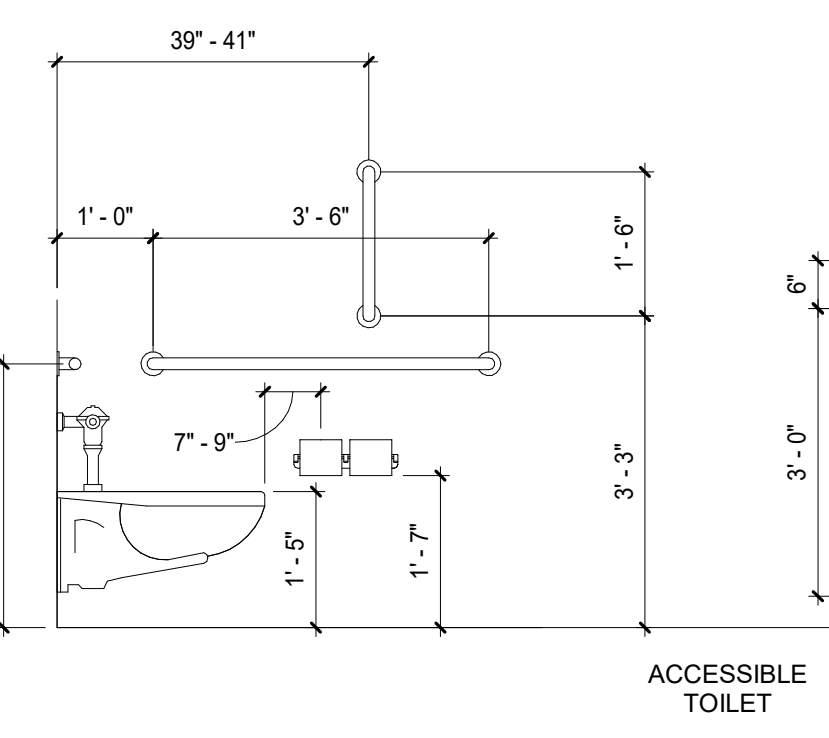
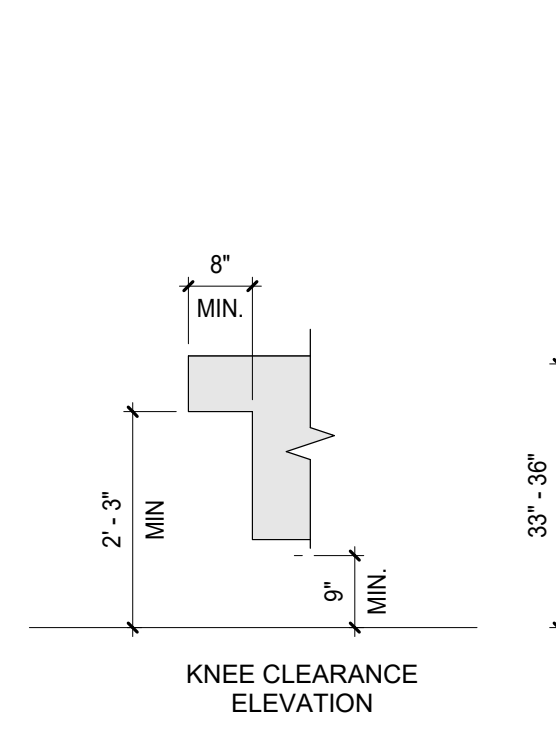
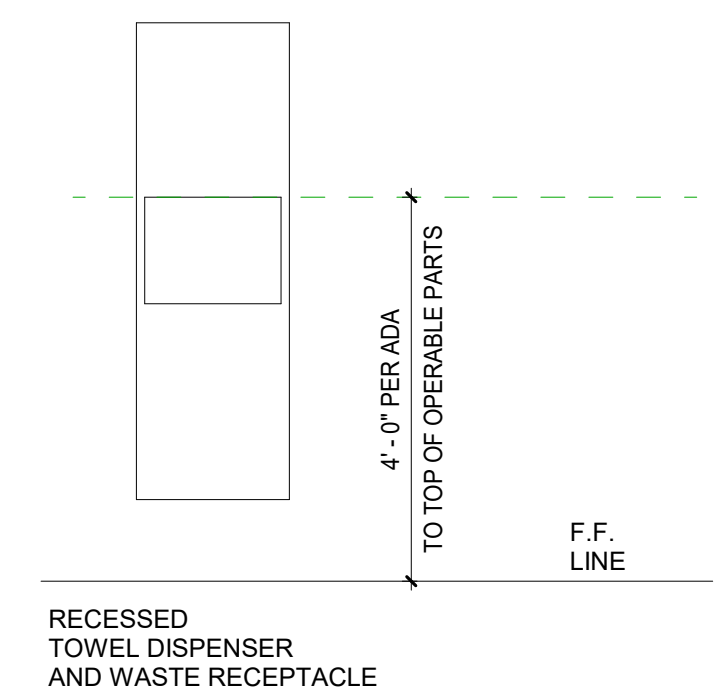
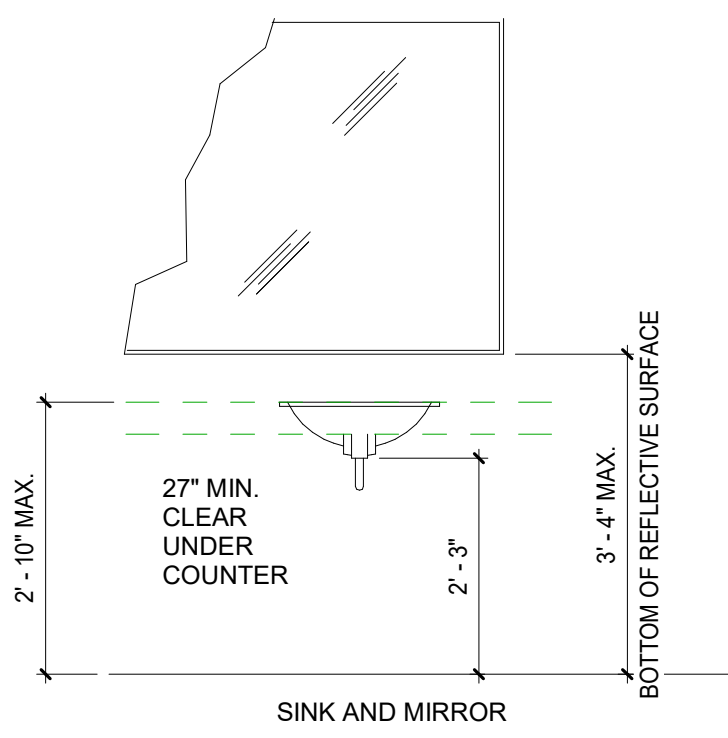
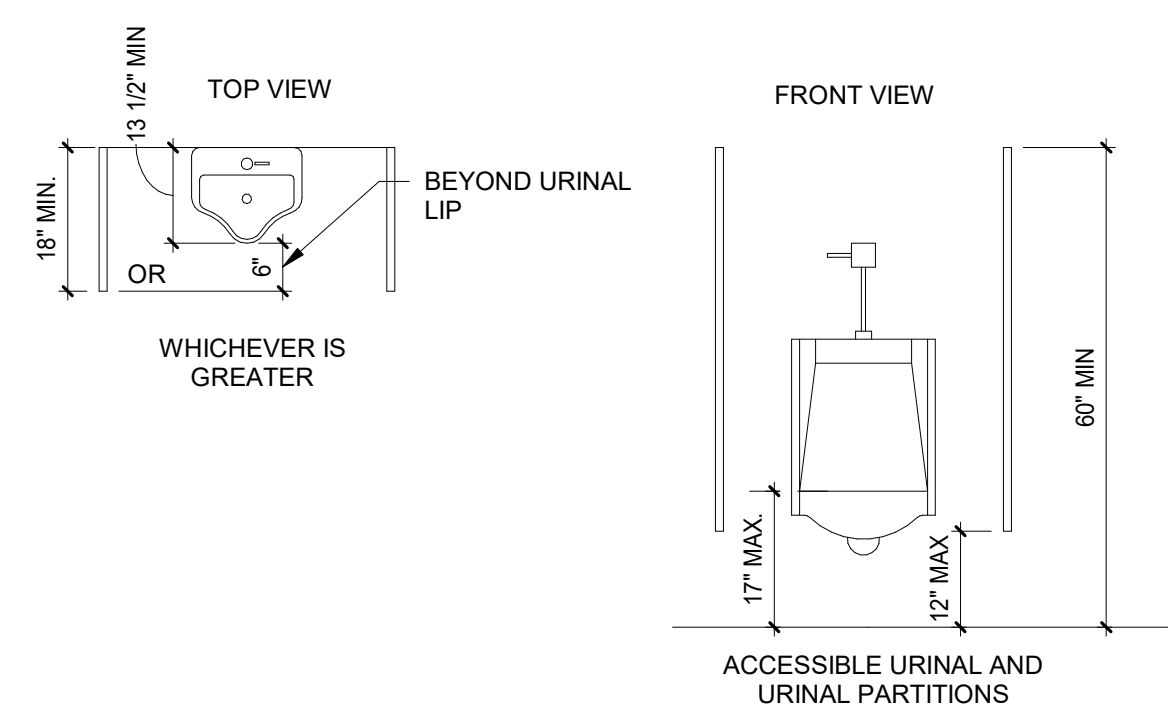
C1 TYP. TILE TO CONCRETE FLOOR TRANSITION
SCALE: 3" = 1'-0"



C2 MIRROR DETAIL
SCALE: 1 1/2" = 1'-0"

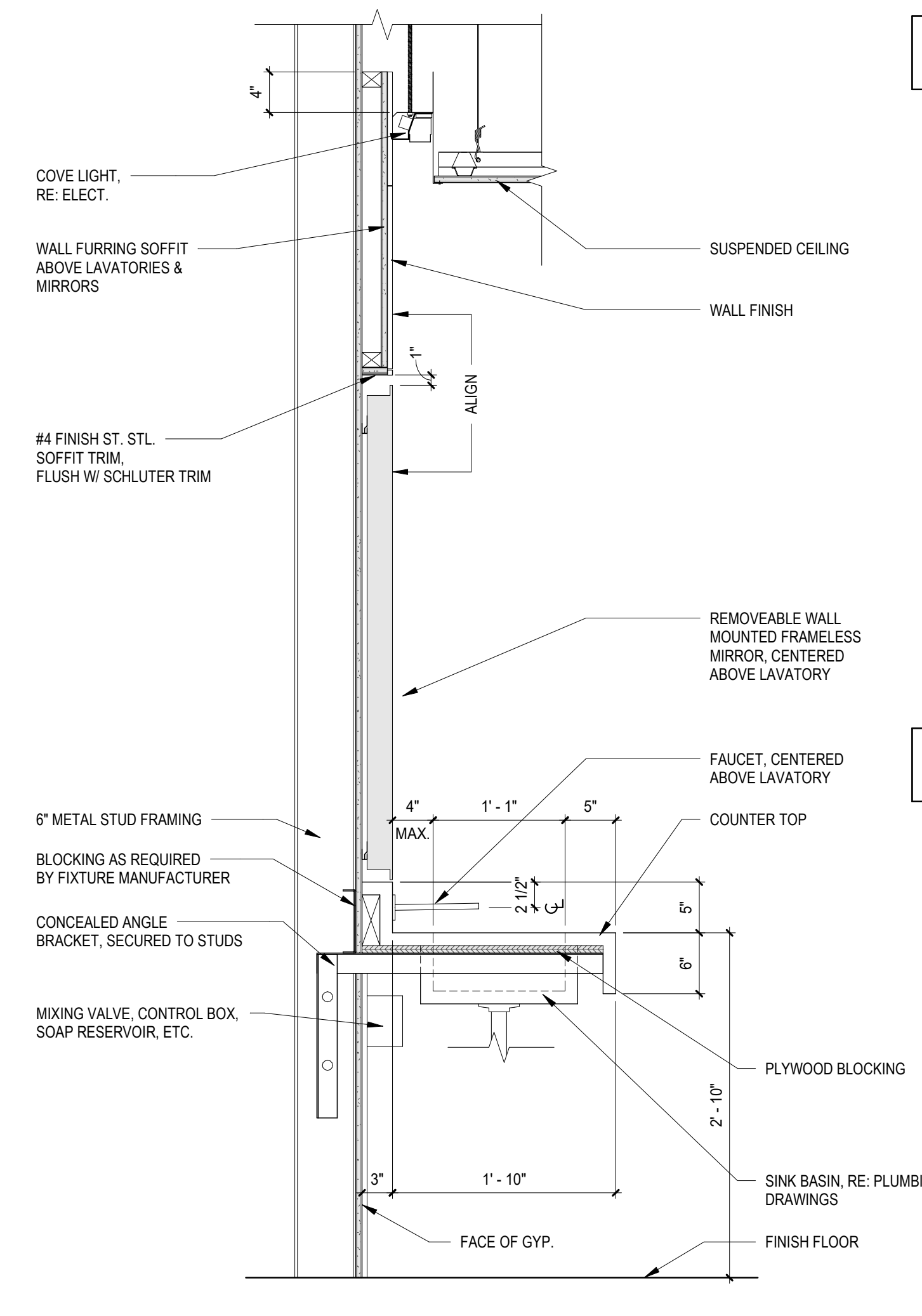


C5 CEILING - COVE LIGHT
SCALE: 1 1/2" = 1'-0"

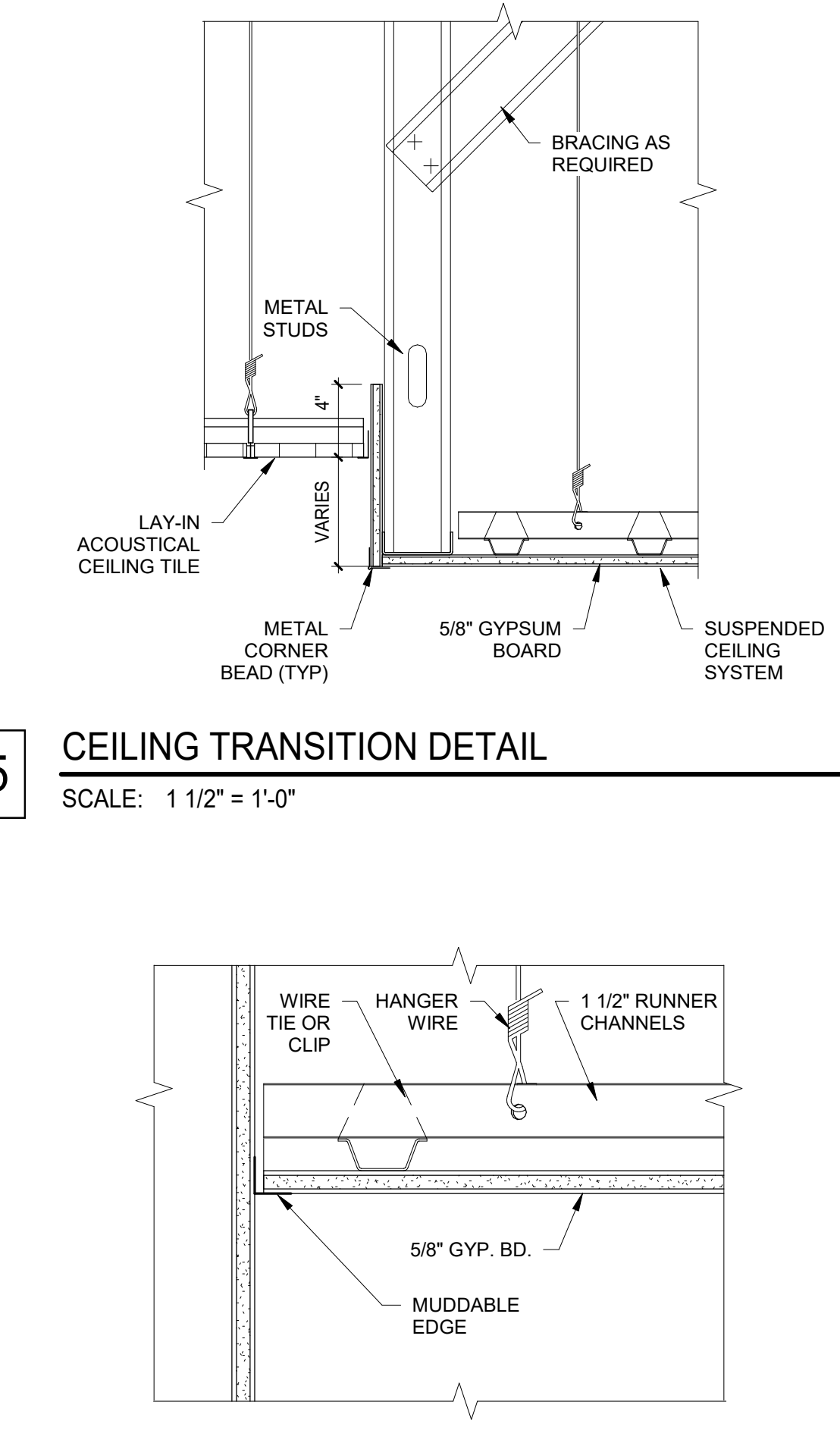


A1 ADA FIXTURE REQUIREMENTS
SCALE: 1/2" = 1'-0"

A4 WALL HUNG COUNTER WALL SECTION
SCALE: 1" = 1'-0"



B5 CEILING TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"



A5 TYP. PERIMETER TRANSITION
SCALE: 3" = 1'-0"



DATE REVISION

PROJECT NUMBER 23100

DETAILS

2/15/2024 1:01:58 PM

D

C

B

A

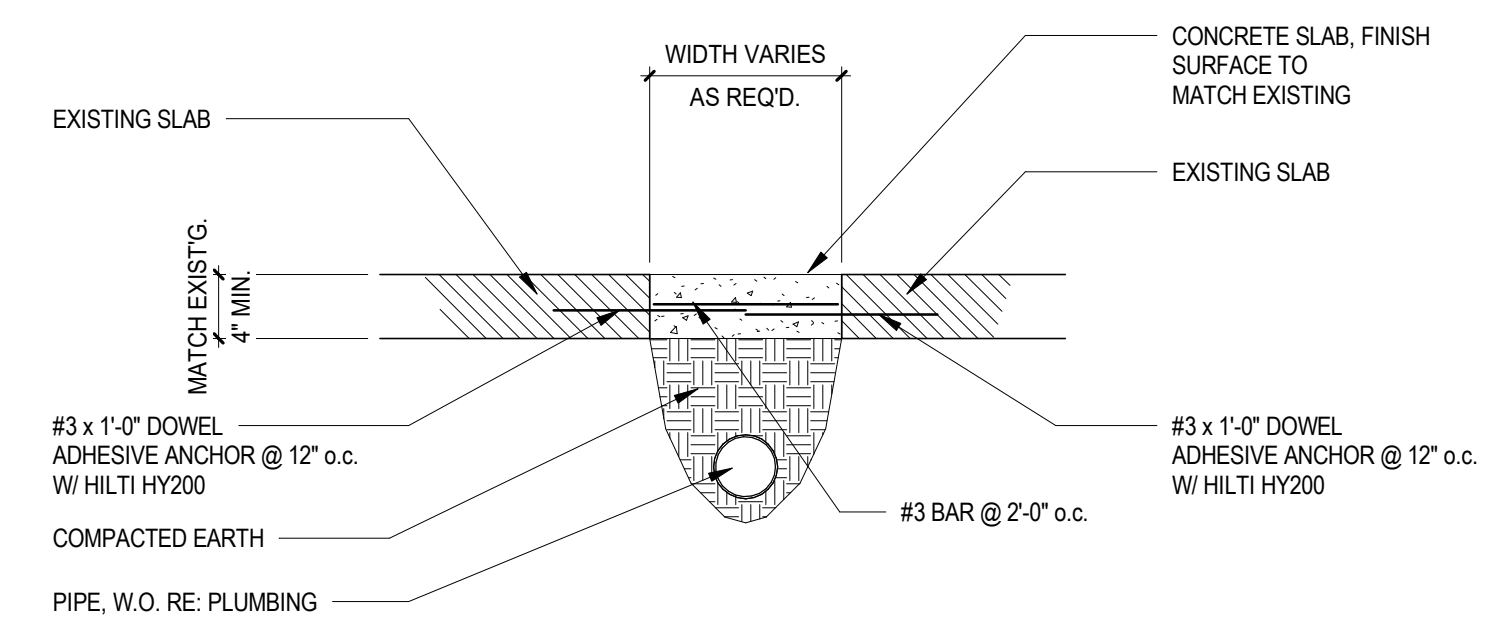
1

2

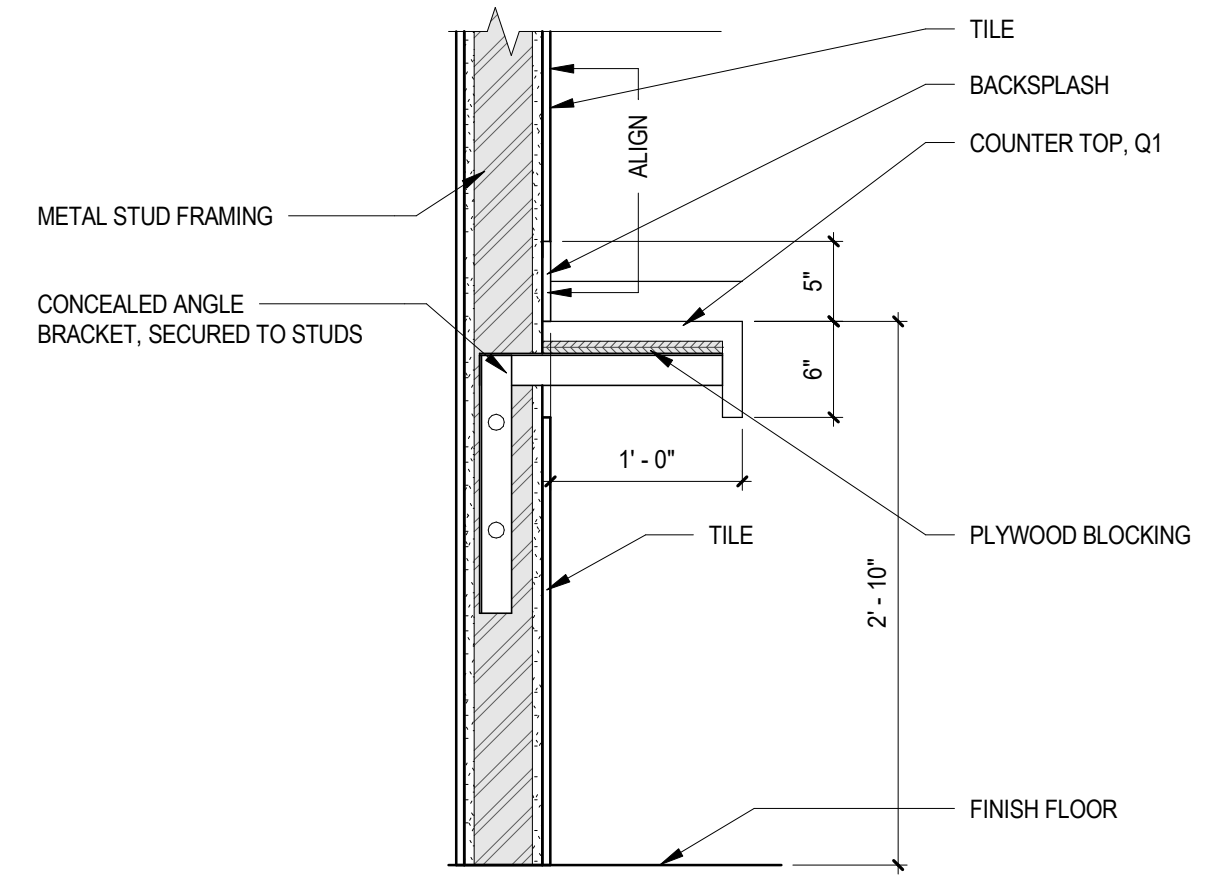
3

4

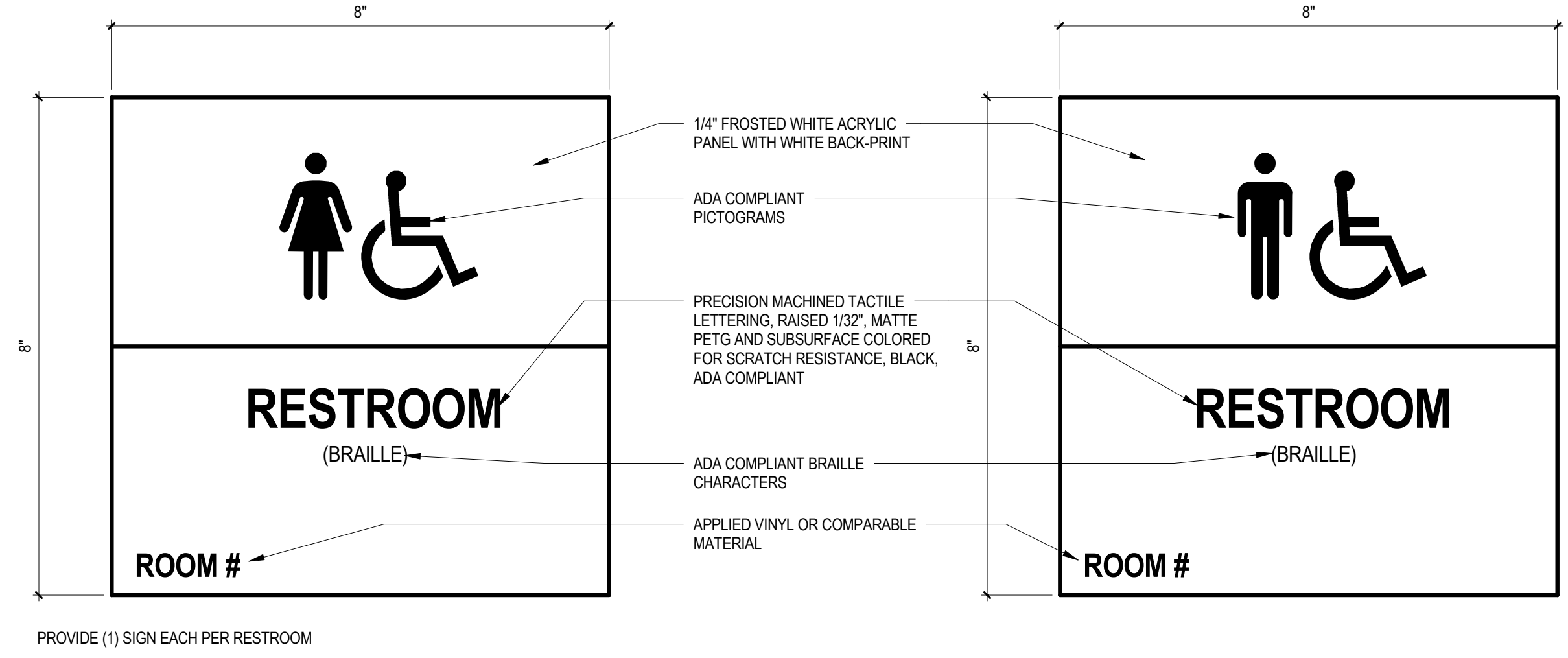
5



A1 TRENCH INFILL SLAB DETAIL
SCALE: 1" = 1'-0"



A3 WALL SHELF
SCALE: 1" = 1'-0"



A4 ROOM SIGNAGE
SCALE: 6" = 1'-0"

FINISH LEGEND			
TAG	PRODUCT TYPE	SPECIFICATIONS	NOTES
CEILING			
ACT1	ACOUSTICAL CEILING TILE	MANF: ARMSTRONG STYLE/PATTERN: DUNE TILE SIZE: 2x4 GRID: SQUARE LAY IN, WHITE	
MISCELLANEOUS			
Q1	QUARTZ COUNTERTOP	MANF: CAESARSTONE TYPE: QUARTZ STYLE: POLISHED COLOR: ORGANIC WHITE THICKNESS: 2CM	
TILE			
T1	TILE (FLOOR)	MANF: DALTILE/CAESAR TYPE: PORCELAIN STYLE/PATTERN: CLASH, MATTE, 24" x 24" COLOR: SPIRIT DIMENSIONS: 24" x 24" GROUT MANF: MAPEI GROUT TYPE: EPOXY GROUT COLOR: TBD GROUT SIZE: 1/8"	PROVIDE STAINLESS STEEL SCHLUTER DILEX HKU AT ALL FLOOR TO WALL TILE TRANSITIONS.
T2	TILE (WALL)	MANF: DALTILE/CAESAR TYPE: PORCELAIN STYLE/PATTERN: CLASH, MATTE, 24" x 24". SEE ELEVATIONS COLOR: ESSENCE DIMENSIONS: 24" x 24" GROUT MANF: MAPEI GROUT TYPE: EPOXY GROUT COLOR: TBD GROUT SIZE: 1/8"	CAP ALL EXPOSED EDGES AND TRANSITIONS WITH STAINLESS STEEL SCHLUTER SCHIENE.
T3	TILE (ACCENT)	MANF: DALTILE TYPE: GLAZED CERAMIC STYLE/PATTERN: COLORMATCH, MATTE, SEE ELEVATIONS COLOR: TUSCANY CU74 DIMENSIONS: 2" x 8" GROUT MANF: MAPEI GROUT TYPE: EPOXY GROUT COLOR: TBD GROUT SIZE: 1/16"	@WOMENS ROOM, CAP ALL EXPOSED EDGES WITH STAINLESS STEEL SCHLUTER SCHIENE.
T4	TILE (ACCENT)	MANF: DALTILE TYPE: GLAZED CERAMIC STYLE/PATTERN: COLORMATCH, MATTE, SEE ELEVATIONS COLOR: PACIFIC CU61 DIMENSIONS: 2" x 8" GROUT MANF: MAPEI GROUT TYPE: EPOXY GROUT COLOR: TBD GROUT SIZE: 1/16"	@MENS ROOM, CAP ALL EXPOSED EDGES WITH STAINLESS STEEL SCHLUTER SCHIENE.
T5	TILE (KEystone)	MANF: DALTILE TYPE: KEYSTONE COLORBODY PORCELAIN STYLE/PATTERN: COLORMATCH, MATTE, SEE ELEVATIONS COLOR: ARCHITECT GRAY D1-9 DIMENSIONS: 2" x 2" MOSAIC GROUT MANF: MAPEI GROUT TYPE: EPOXY GROUT COLOR: TBD GROUT SIZE: 1/8"	@CUSTODIAL, COVE AT FLOOR-TO-WALL TRANSITION, BULLNOSE AT EXPOSED EDGES
WALL			
B1	RUBBER BASE	MANF: ROPPE STYLE: COVED, 6" TALL COLOR: BLACK 100	
P1	GENERAL PAINT	MANF: SHERWIN WILLIAMS TYPE: SW 701675 COLOR: EXTRA WHITE	FINISH: CEILINGS: FLAT; WALLS: EGGSHELL; METAL SUBSTRATE: SEMI-GLOSS. RE: FLOOR PLANS & SPECIFICATIONS.
P2	EPOXY PAINT	MANF: SHERWIN WILLIAMS TYPE: SW 701675 COLOR: EXTRA WHITE	FINISH: CEILINGS: FLAT; WALLS: EGGSHELL; METAL SUBSTRATE: SEMI-GLOSS. RE: FLOOR PLANS & SPECIFICATIONS.
P3	ACCENT PAINT	MANF: SHERWIN WILLIAMS TYPE: COLOR: MATCH EXISTING	FINISH: CEILINGS: FLAT; WALLS: EGGSHELL; METAL SUBSTRATE: SEMI-GLOSS. RE: FLOOR PLANS & SPECIFICATIONS.



DATE REVISION

PROJECT NUMBER 23100

DETAILS & FINISH LEGEND

AE501

2/6/2024 10:05:44 AM

1 2 3 4 5

D

C

B

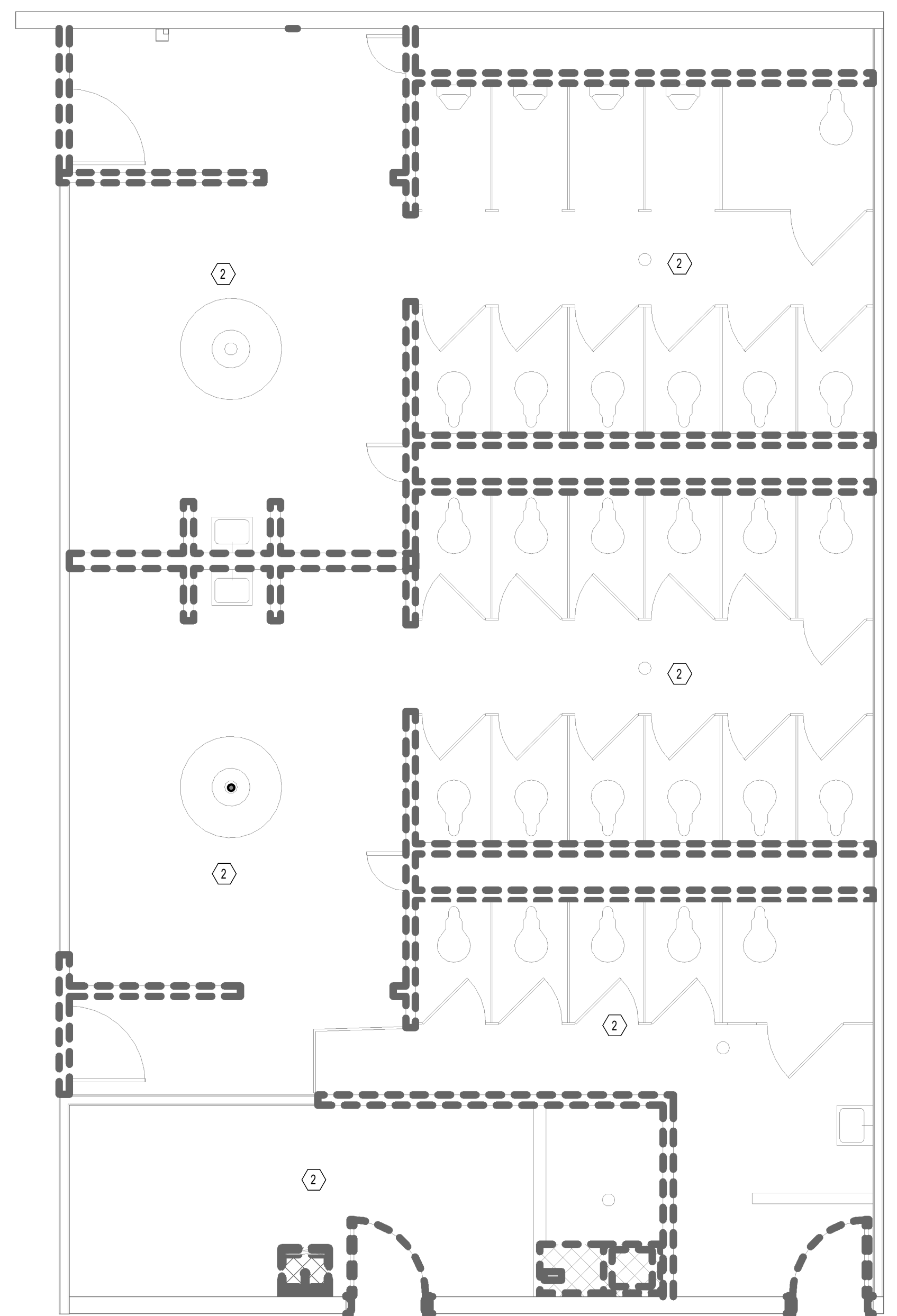
A

FIRE SPRINKLER GENERAL NOTES

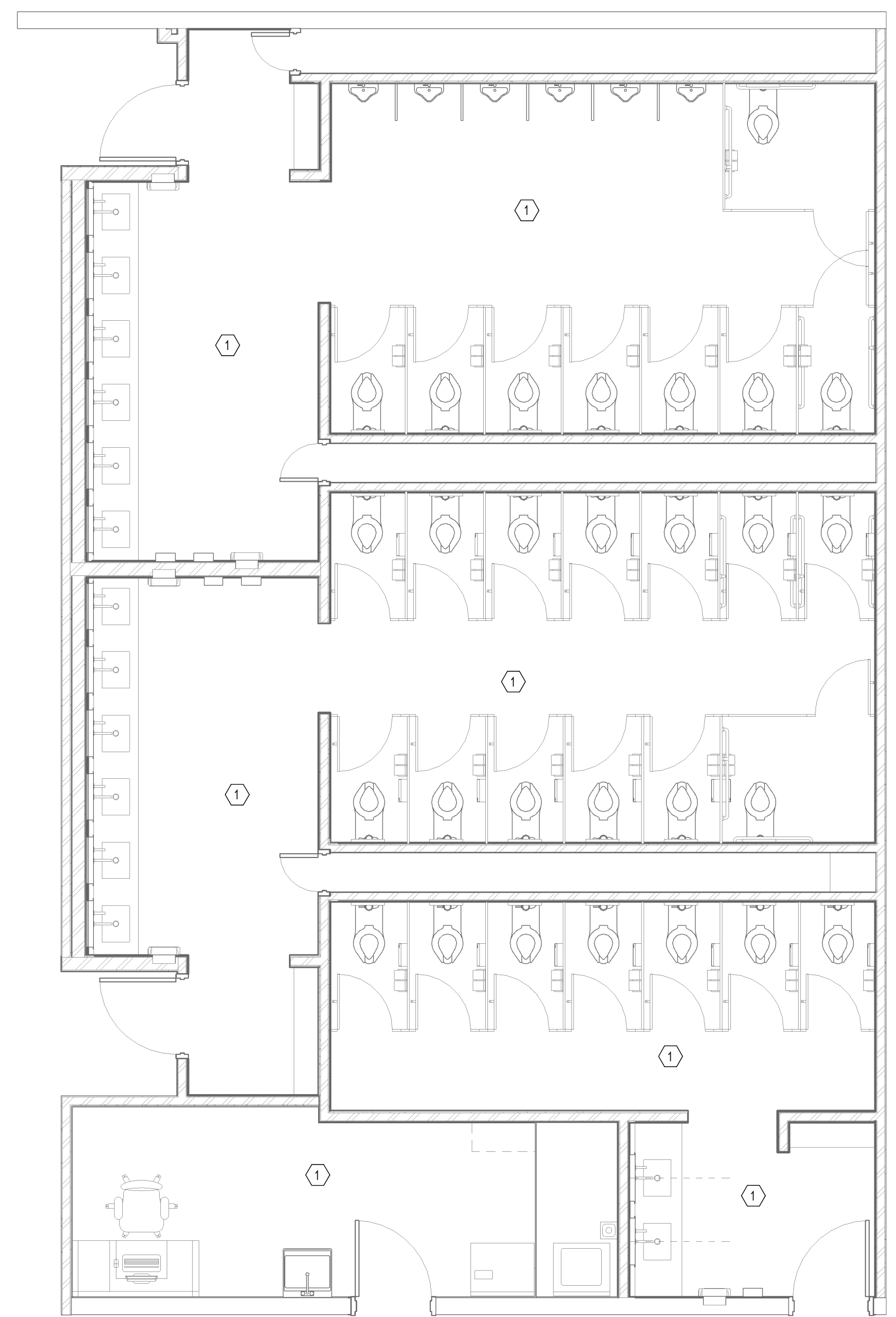
- A. COORDINATE ROUTING OF FIRE SPRINKLER SYSTEM PIPE WITH ALL TRADES. MODIFY PIPE ROUTING AS NECESSARY TO AVOID INTERFERENCE WITH CEILINGS, BUILDING STRUCTURE, AND ALL UTILITIES AND EQUIPMENT.
- B. COORDINATE INSTALLATION LOCATION OF FIRE SPRINKLER HEADS WITH ALL OTHER DEVICES INSTALLED IN THE CEILINGS AND WITH THE LATEST REFLECTED CEILING PLANS.
- C. PROJECT AREA CONTAINS COMBUSTIBLE PLENUM ABOVE ALL SPACES.
- D. UPDATE EXISTING FIRE PROTECTIONS SYSTEM IN PROJECT TO ACCOMMODATE NEW CEILINGS AND CHANGES TO EXISTING LAYOUT. CAREFULLY REVIEW ARCHITECTURAL PLANS, INCLUDING CHANGES TO WALL HEIGHTS.
- E. SEE SPECIFICATION 211000 PART 2.3 FOR A SCHEDULE OF FIRE SPRINKLER HEADS BY SPACE.

KEYED NOTES

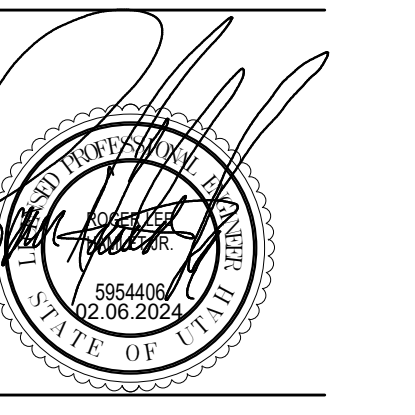
- 1 PROVIDE NEW HEADS IN THIS AREA TO ACCOMMODATE A NEW CEILING. MODIFY SPRINKLER SYSTEM IN THE COMBUSTIBLE SPACE ABOVE THE CEILING AS REQUIRED TO PROVIDE A CODE COMPLIANT SYSTEM AT THE END OF CONSTRUCTION.
- 2 PROVIDE FIRE PROTECTION DESIGN WORK REQUIRED TO FACILITATE DEMOLITION IN THIS AREA. COORDINATE THE EXTENT OF THE WORK BETWEEN TRADES. CEILINGS ARE BEING RAISED OR CHANGED IN THE PROJECT. REVIEW ARCHITECTURAL PLANS FOR THE EXTENT OF THAT CHANGE.



2 LEVEL 1 FIRE PROTECTION DEMO PLAN
SCALE: 1/4" = 1'-0"



1 LEVEL 1 FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"



DATE	REVISION

PROJECT NUMBER 23100

**LEVEL 1
FIRE
PROTECTION
PLAN**

FP101

GENERAL NOTES - DEMO

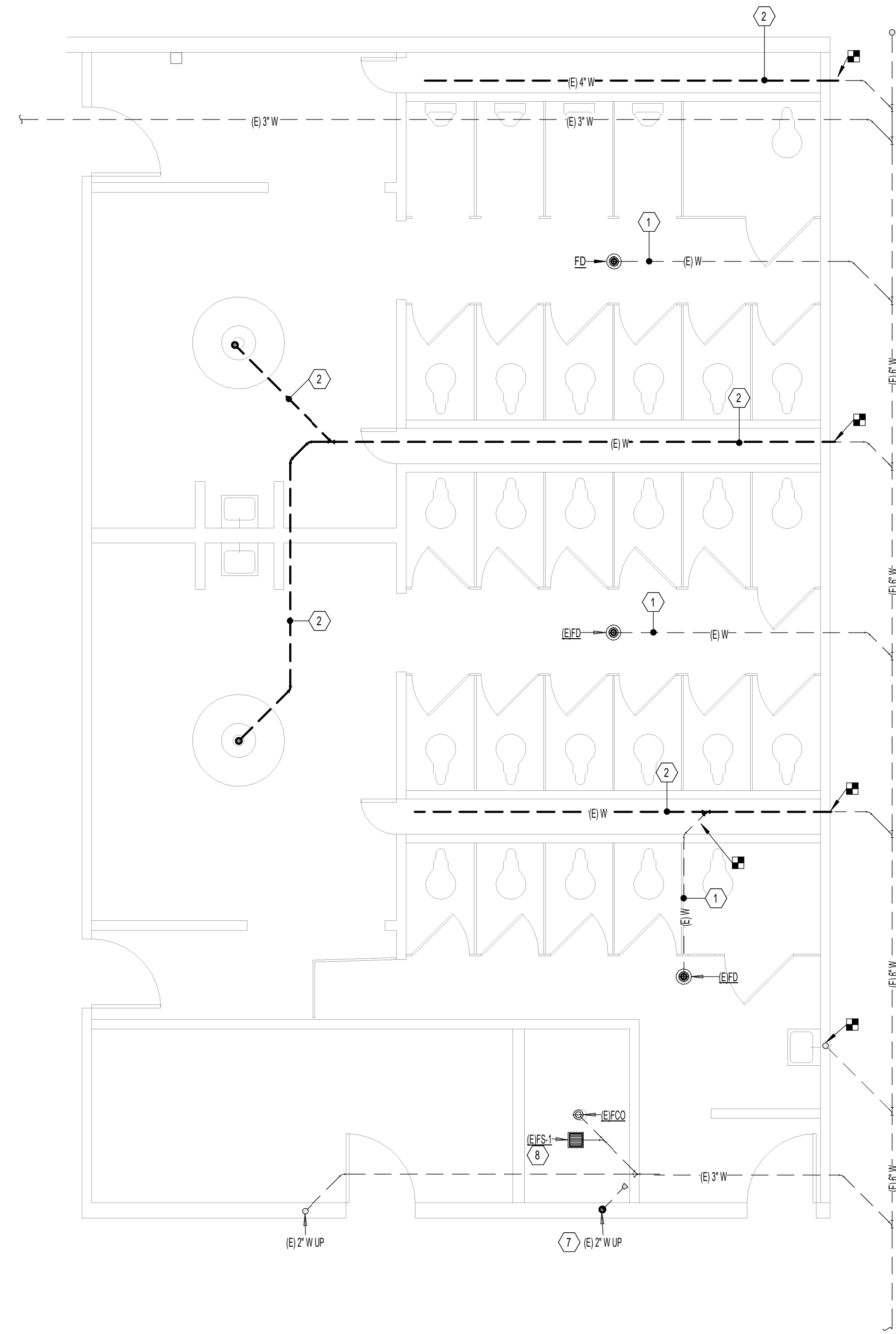
- A. ALL ITEMS SHOWN LIGHT ARE EXISTING.
- B. ALL ITEMS SHOWN DARK AND DASHED ARE TO BE DEMOLISHED.
- C. PATCH AND REPAIR ALL ITEMS DAMAGED DURING DEMOLITION.
- D. WHERE SYSTEMS ARE PARTIALLY DEMOLISHED, SEE NEW WORK PLANS FOR INFORMATION ON NEW CONNECTIONS. WHERE NO NEW CONNECTIONS ARE SHOWN ON NEW WORK PLANS, CAP PARTIALLY DEMOLISHED SYSTEMS SO THE SYSTEM CAN BE RETURNED TO SERVICE.
- E. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK.
- F. REVIEW ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION.
- G. HOT AND COLD WATER SERVE SYSTEMS OUTSIDE OF PROJECT SCOPE. CONFIRM ALL SHUTDOWNS WITH OWNER TO AVOID DISRUPTION TO MANUFACTURING. PRESERVE ALL EXISTING CONNECTIONS TO SYSTEMS OUTSIDE OF PROJECT SCOPE.
- H. PIPE LAYOUT IS APPROXIMATE AND SIMPLIFIED FOR CLARITY IN PLAN VIEW. PROVIDE ADDITIONAL FITTINGS AND FIELD VERIFY CONNECTION LOCATIONS BASED ON EXISTING CONDITIONS. SEE PLUMBING SCHEMATICS ON PL701 FOR MORE INFORMATION.

GENERAL NOTES - NEW WORK

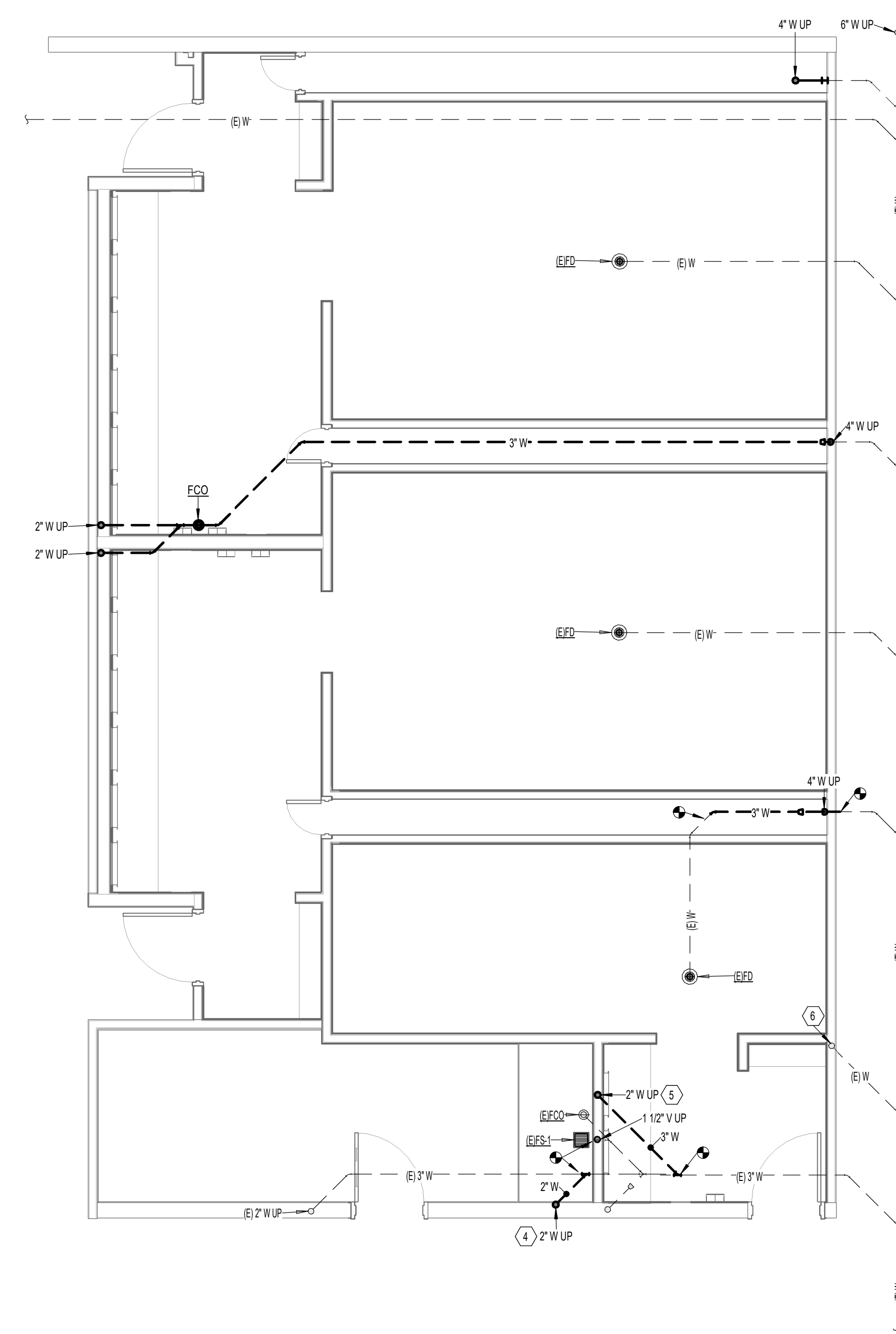
- A. SLOPE ALL BELOW GRADE SANITARY SEWER AND ROOF DRAIN PIPES AT 1/8" PER FT. PIPES 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FT.
- B. CONTRACTOR TO CAREFULLY COORDINATE WITH ALL TRADES TO ENSURE PIPES SHOWN RISING UP INSIDE WALLS ARE ACCURATELY LOCATED DURING INSTALLATION.
- C. CONTRACTOR TO COORDINATE ALL FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH ALL TRADES TO ENSURE THEY ARE ACCURATELY INSTALLED AT THE CORRECT LOCATION.
- D. RECIRCULATED PORTION OF DOMESTIC HOT WATER LOOP TO DROP FULL SIZE TO WITHIN 2" OF THE FIXTURE SERVED.
- E. SEE DETAIL 7/PL501 FOR PIPING LAYOUT AT LAVATORIES.
- F. SEE DETAIL 6/PL501 FOR PIPING OF WATER CLOSET PLUMBING CHASE.
- G. PIPE IS SCHEMATIC AND SHOWN FOR CLARITY IN PLAN VIEW. CONTRACTOR TO FIELD VERIFY LOCATIONS AND PIPE LAYOUT. SEE PLUMBING SCHEMATICS ON PL701 AND PL702 FOR MORE DETAIL ON CONNECTIONS. INCLUDING RUNOUTS TO INDIVIDUAL CHASE FIXTURES.
- H. LABEL ALL VALVES, INCLUDING ISOLATION VALVES FOR FIXTURES AND EQUIPMENT AS REQUIRED BY SPECIFICATION 230529.

KEYED NOTES

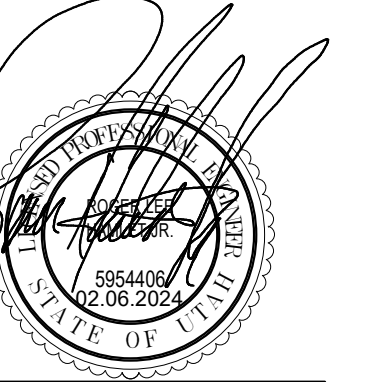
- 1 UNDER SLAB PLUMBING ROUTE IS ASSUMED BASED ON EXISTING DRAWINGS AND VISIBLE FIXTURES. FIELD VERIFY CONNECTION POINTS.
- 2 COMPLETELY REMOVE ALL UNDERGROUND PIPE SERVING WATER CLOSETS INCLUDING THE MAIN 4 INCH WASTE PIPE AND ALL BRANCHES TO INDIVIDUAL FIXTURES. REPLACE UNDERGROUND PIPE AS SHOWN ON NEW WORK PLAN. PRESERVE AND RECONNECT ANY WASTE CONNECTIONS NOT SHOWN ON THIS PLAN AND DISCOVERED DURING EXCAVATION.
- 4 WASTE PIPE TO SERVE HATCHER WALL BOX ABOVE. COORDINATE LOCATION WITH FLOOR PLAN ABOVE.
- 5 WASTE PIPE TO SERVE FIXTURE(S) ABOVE. COORDINATE LOCATION WITH FLOOR PLAN ABOVE.
- 6 REMOVE LAVATORY WASTE AND VENT. REMOVE VENT LINE THROUGH ROOF AND PATCH ROOF. CAP WASTE LINE WITHIN 6" OF THE FLOOR.
- 7 PROVIDE HARD-WIRED POWER SUPPLY FOR ALL FLUSH VALVES. SEE ELECTRICAL PLANS FOR LOCATION OF 120V POWER SUPPLY. TYPICAL OF ALL FLUSH VALVES.
- 8 REMOVE EXISTING FLOOR SINK IN ORDER TO ACCOMMODATE NEW WALL.



1 UNDERGROUND PLUMBING DEMO PLAN
SCALE: 1/4" = 1'-0"



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



DATE	REVISION

PROJECT NUMBER 23100

UNDERGROUND PLUMBING PLANS

PL100

GENERAL NOTES - DEMO

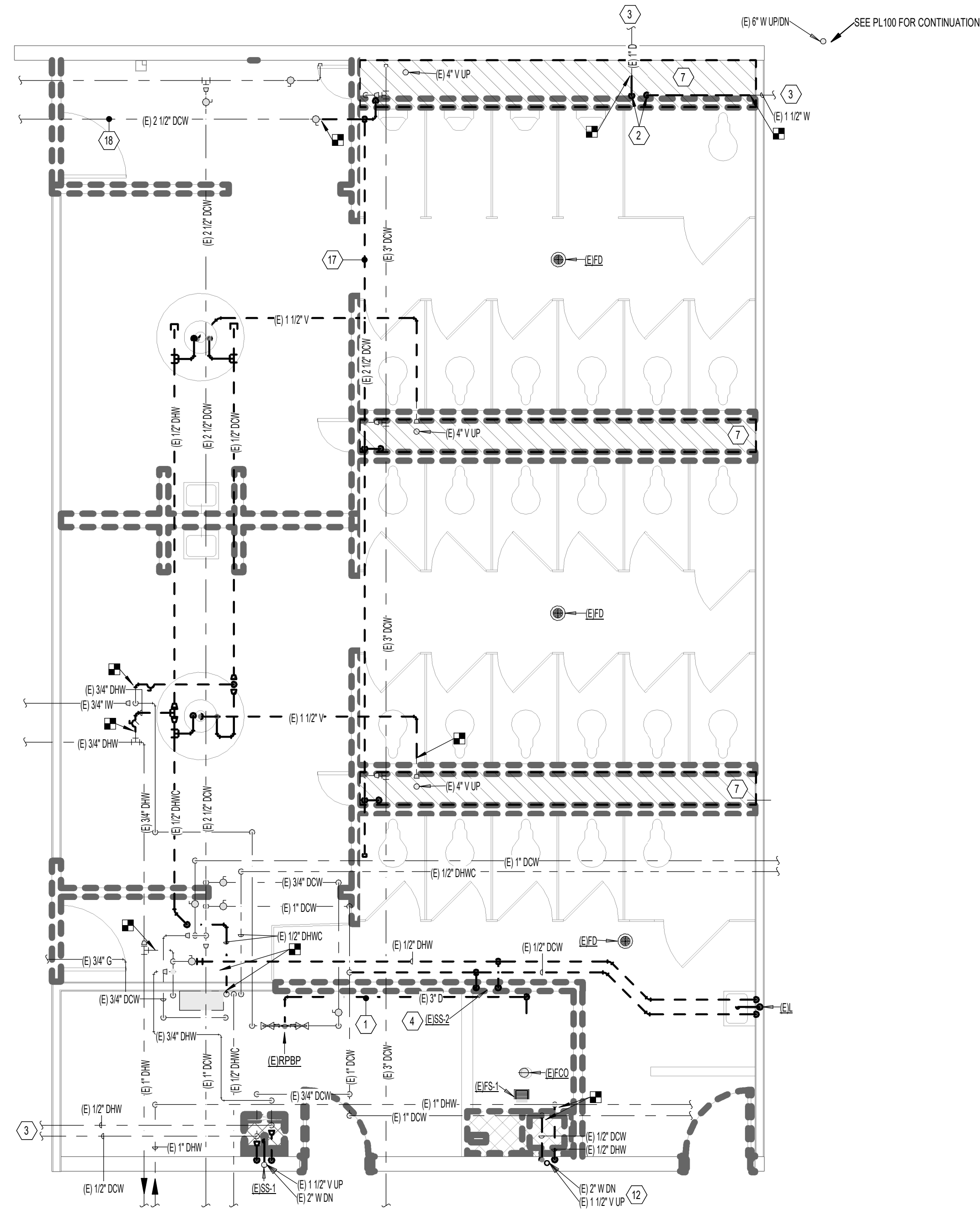
- A. ALL ITEMS SHOWN LIGHT ARE EXISTING.
- B. ALL ITEMS SHOWN DARK AND DASHED ARE TO BE DEMOLISHED.
- C. PATCH AND REPAIR ALL ITEMS DAMAGED DURING DEMOLITION.
- D. WHERE SYSTEMS ARE PARTIALLY DEMOLISHED, SEE NEW WORK PLANS FOR INFORMATION ON NEW CONNECTIONS. WHERE NO NEW CONNECTIONS ARE SHOWN ON NEW WORK PLANS, CAP PARTIALLY DEMOLISHED SYSTEMS SO THE SYSTEM CAN BE RETURNED TO SERVICE.
- E. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK.
- F. REVIEW ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION.
- G. HOT AND COLD WATER SERVICE SYSTEMS OUTSIDE OF PROJECT SCOPE. CONFIRM ALL SHUTDOWNS WITH OWNER TO AVOID DISRUPTION TO MANUFACTURING. PRESERVE ALL EXISTING CONNECTIONS TO SYSTEMS OUTSIDE OF PROJECT SCOPE.
- H. PIPE LAYOUT IS APPROXIMATE AND SIMPLIFIED FOR CLARITY IN PLAN VIEW. PROVIDE ADDITIONAL FITTINGS AND FIELD VERIFY CONNECTION LOCATIONS BASED ON EXISTING CONDITIONS. SEE PLUMBING SCHEMATICS ON PL701 FOR MORE INFORMATION.

GENERAL NOTES - NEW WORK

- A. SLOPE ALL BELOW GRADE SANITARY SEWER AND ROOF DRAIN PIPES AT 1/8" PER FT. PIPES 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FT.
- B. CONTRACTOR TO CAREFULLY COORDINATE WITH ALL TRADES TO ENSURE PIPES SHOWN RISING UP INSIDE WALLS ARE ACCURATELY LOCATED DURING INSTALLATION.
- C. CONTRACTOR TO COORDINATE ALL FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH ALL TRADES TO ENSURE THEY ARE ACCURATELY INSTALLED AT THE CORRECT LOCATION.
- D. RECIRCULATED PORTION OF DOMESTIC HOT WATER LOOP TO DROP FULL SIZE TO WITHIN 2' OF THE FIXTURE SERVED.
- E. SEE DETAIL 3/PL501 FOR PIPING LAYOUT AT LAVATORIES.
- F. SEE DETAIL 6/PL501 FOR PIPING OF WATER CLOSET PLUMBING CHASE.
- G. PIPE LAYOUT IS APPROXIMATE AND SIMPLIFIED FOR CLARITY IN PLAN VIEW. PROVIDE ADDITIONAL FITTINGS AND FIELD VERIFY CONNECTION LOCATIONS BASED ON EXISTING CONDITIONS. SEE PLUMBING SCHEMATICS ON PL701 AND PL702 FOR ADDITIONAL INFORMATION.
- H. LABEL ALL VALVES, INCLUDING ISOLATION VALVES FOR FIXTURES AND EQUIPMENT AS REQUIRED BY SPECIFICATION 230529.

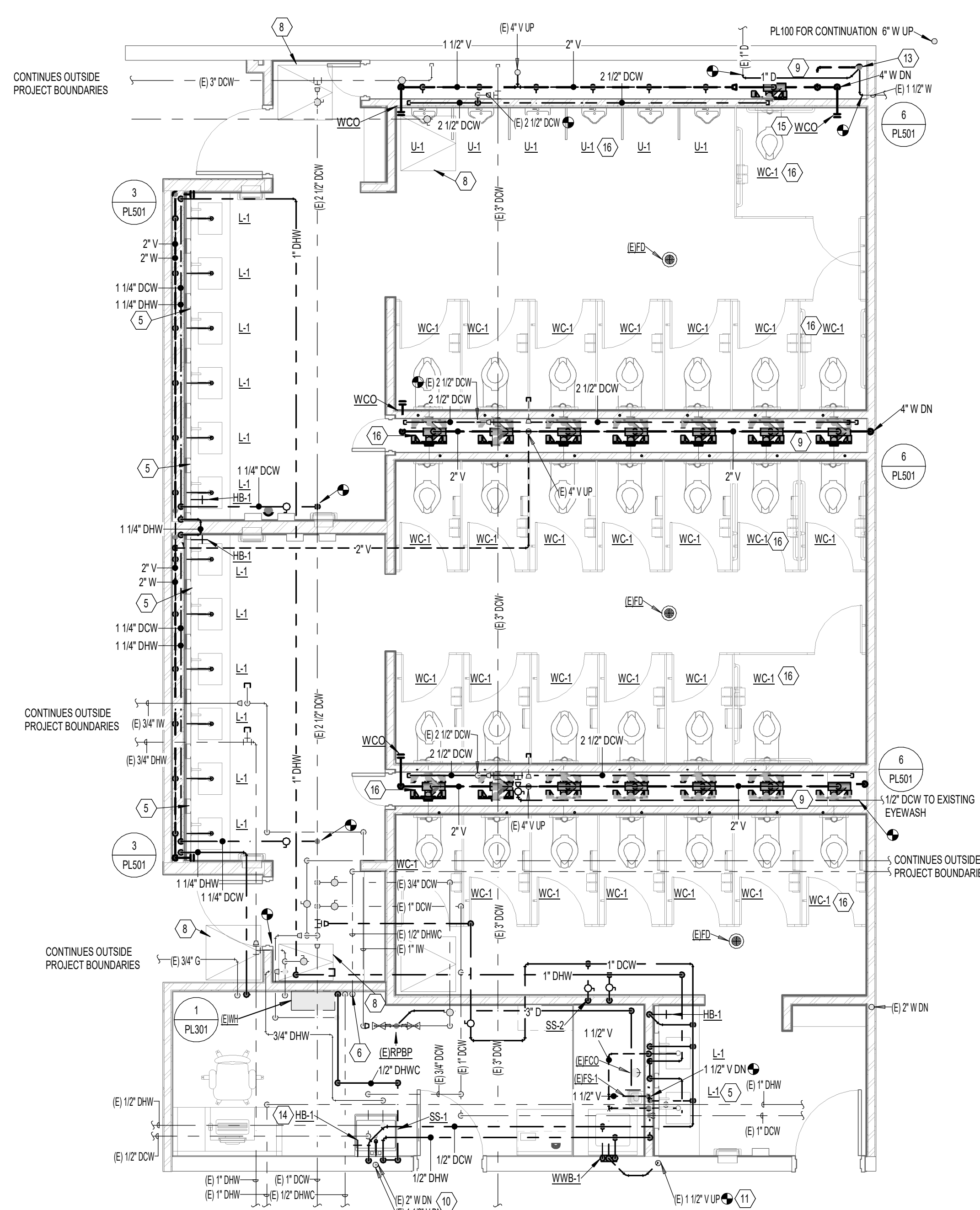
KEYED NOTES

- 1. WASTE PIPE SERVES EXISTING CATCH BASIN FOR REDUCED PRESSURE BACKFLOW PREVENTER.
- 2. EXISTING CONDENSATE DRAIN CONNECTS INDIRECTLY TO A FUNNEL LOCATED APPROXIMATELY 6' AFF. DEMOLISH RUNOUT TO FUNNEL TO PREPARE FOR RELOCATION OF FUNNEL.
- 3. PIPE CONTIGUES OUTSIDE PROJECT BOUNDARY. ALL DEMOLITION OF PIPE AFFECTING THIS SECTION MUST BE COORDINATED WITH THE OWNER.
- 4. DEMOLISH EXISTING SERVICE SINK FAUCET.
- 5. PROVIDE A HARD WIRED POWER SUPPLY FOR ALL SINKS. SEE ELECTRICAL PLANS FOR LOCATION OF 120V POWER FOR SINKS. PROVIDE PVC TUBE BETWEEN THE FAUCET MOUNTING BRACKET AND THE CONTROL BOX TO FACILITATE ROUTING OF WATER SUPPLY AND CONTROL WIRING. SEE INSTALLATION MANUAL TYPICAL OF ALL LAVATORIES.
- 6. PROVIDE BALANCING VALVE AND SEPARATE ISOLATION BALL VALVE IN THE HORIZONTAL PIPE DROPPING TO THE CIRCULATION PUMP. EXISTING BALL VALVE MAY BE RE-USED AS THE ISOLATION VALVE. PROVIDE A NEW CIRCUIT SETTER FOR ALL THREE DHWC LINES. BALL VALVES AND BALANCING VALVES TO BE WALL MOUNTED AND ACCESSIBLE FROM THE JANITOR ROOM.
- 7. DEMOLISH EXISTING DOMESTIC COLD WATER PIPE IN PLUMBING CHASE FROM THE PRV OUTLET TO THE WATER CLOSETS. PRESERVE PIPE ENDS FOR RECONNECTION. SEE DETAIL 2/PL701 FOR EXTENT OF DEMO.
- 8. ACCESS PANEL IS FOR ISOLATION VALVES ABOVE. COORDINATE EXACT LOCATION OF ACCESS PANEL WITH VALVES.
- 9. RUN OUTS TO INDIVIDUAL FIXTURES INSIDE THE PLUMBING CHASE IS NOT SHOWN. ROUTE WASTE, VENT AND DCW TO FIXTURES AS SHOWN ON PL702.
- 10. CONNECT NEW SINK WASTE AND VENT TO EXISTING SINK WASTE AND VENT CONNECTIONS.
- 11. RECONNECT NEW WASHER VENT TO EXISTING WASHER RISE THROUGH ROOF. RECONNECT NEW STANDPIPE WASTE TO EXISTING WASTE IN FLOOR.
- 12. REMOVE EXISTING 2" WASTE BELOW FLOOR AND CAP. PRESERVE VENT THROUGH ROOF FOR RECONNECTION.
- 13. PROVIDE FUNNEL (FN-1) FOR EXISTING INDIRECT WASTE. RELOCATE WASTE TO THE FUNNEL. SECURELY ANCHOR THE FUNNEL. ALSO ANCHOR THE INDIRECT WASTE PIPES SO THAT THEY CANNOT MOVE. INSTALL WITH A 2" AIR GAP.
- 14. PROVIDE ISOLATION VALVE FOR HOSE BIB ABOVE THE JANITOR ROOM CEILING.
- 15. PROVIDE WALL CLEAN OUT AT THIS LOCATION FOR EASE OF ACCESS TO EXISTING UNDER FLOOR WASTE PIPE.
- 16. PROVIDE HARD WIRED POWER SUPPLY FOR ALL FLUSH VALVES. SEE ELECTRICAL PLANS FOR LOCATION OF 120V POWER SUPPLY. TYPICAL OF ALL FLUSH VALVES.
- 17. DEMOLISH EXISTING 2 1/2" GALVANIZED LINE THAT WAS ABANDONED IN PLACE. REMOVE BACK TO ISOLATION VALVE IN SPACE AND CAP WATER TIGHT. LINE IS GALVANIZED PIPE.
- 18. LINE IS GALVANIZED PIPE.



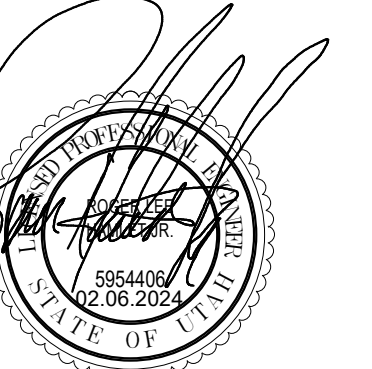
1 LEVEL 1 PLUMBING DEMO PLAN

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



2 LEVEL 1 PLUMBING PLAN

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



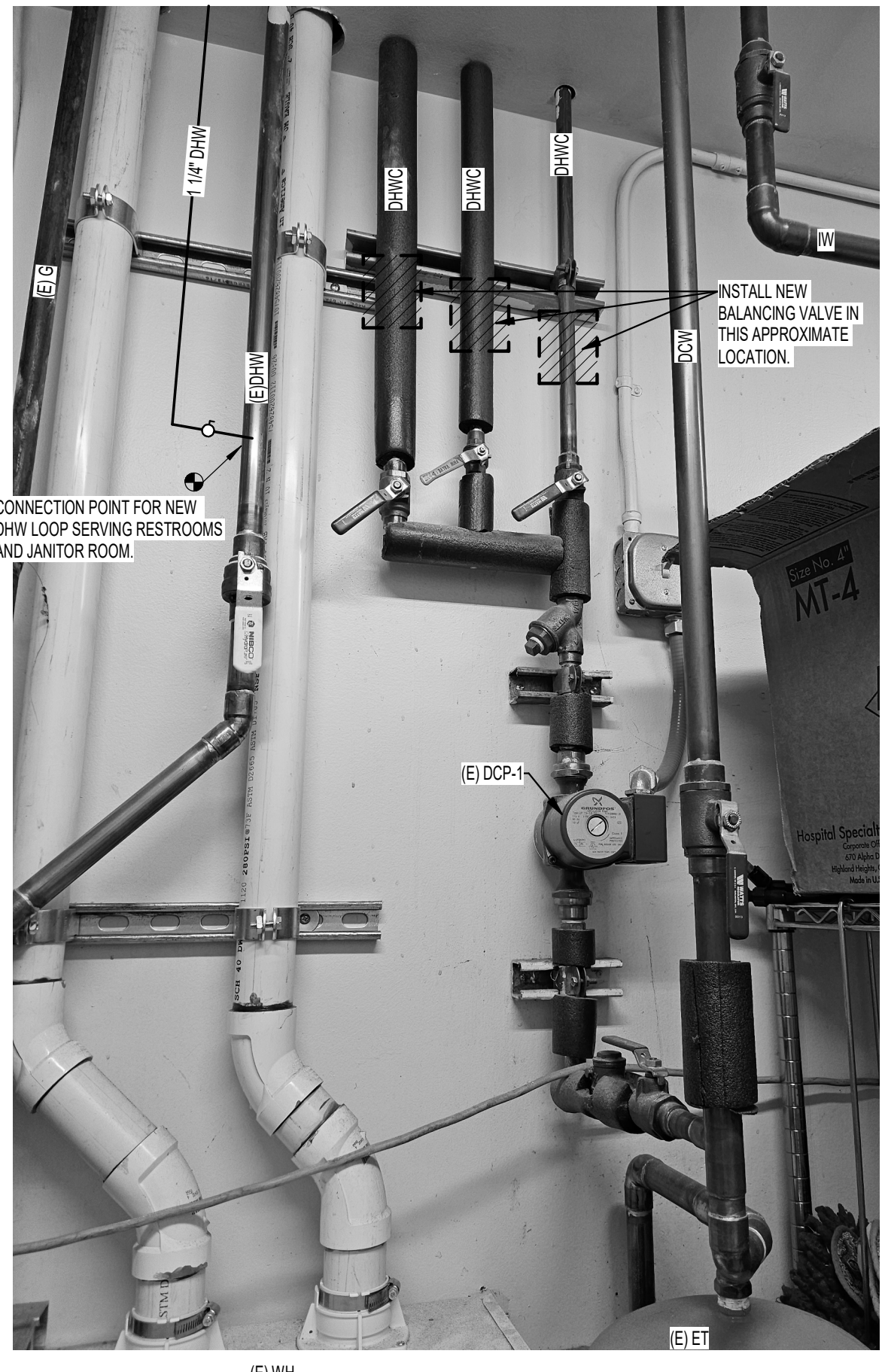
DATE	REVISION

PROJECT NUMBER 23100

**LEVEL 1
PLUMBING
PLANS**

PL101

2/6/2024 10:06:15 AM A B C D 0' 1' 2'



1 WATER HEATER AND RECIRC ELEVATION
SCALE: NONE



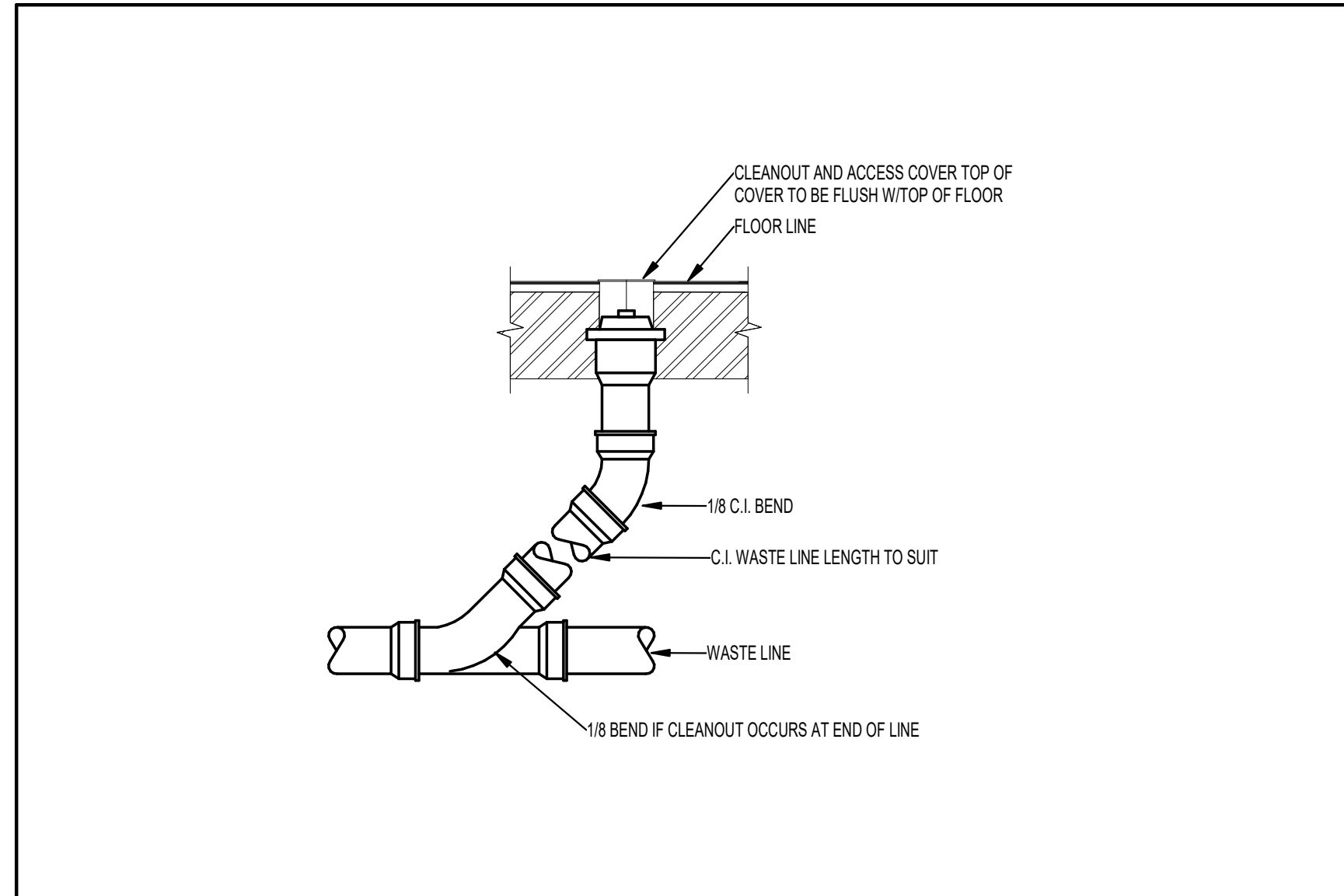
△ DATE REVISION

PROJECT NUMBER 23100

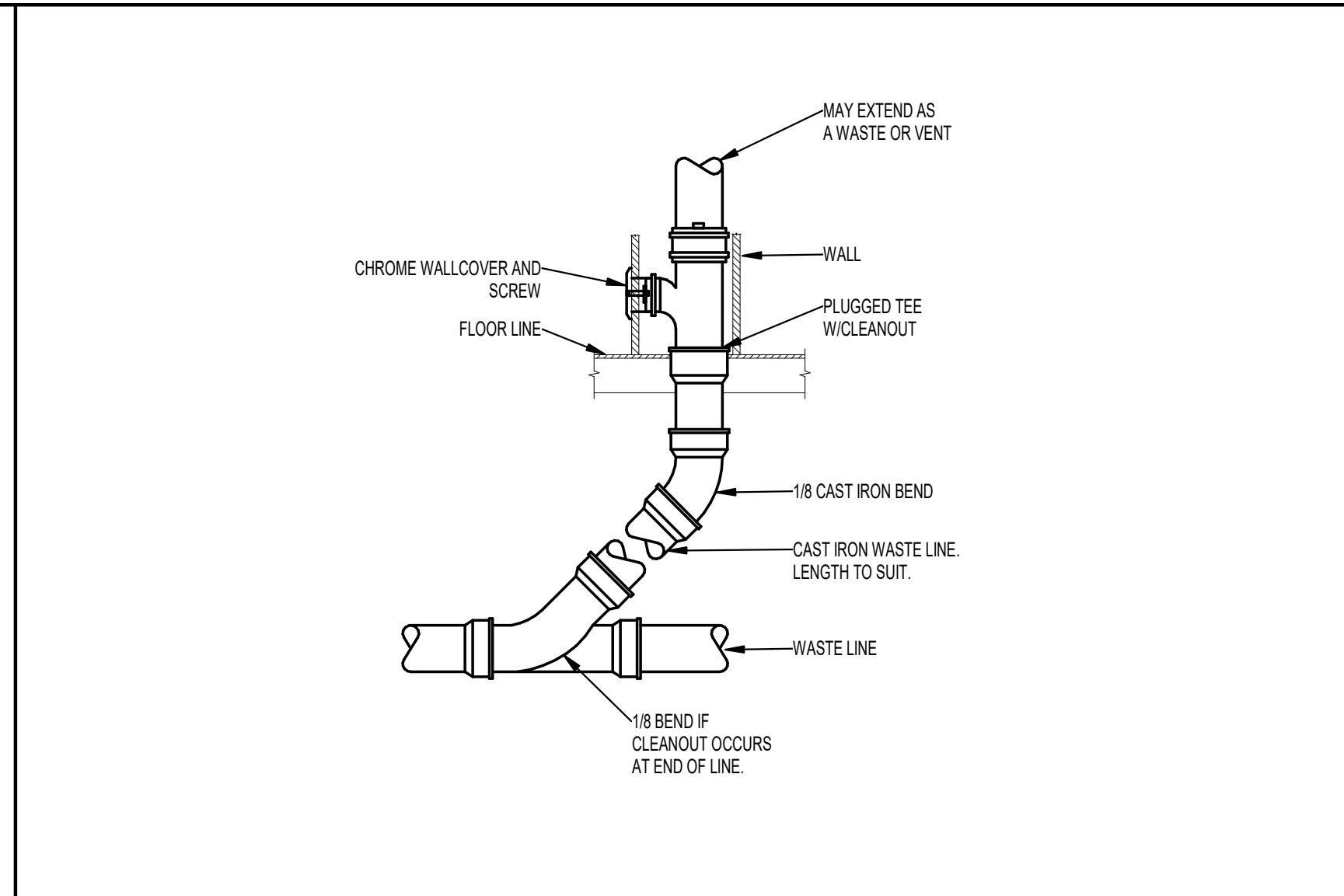
PLUMBING SECTIONS

PL301

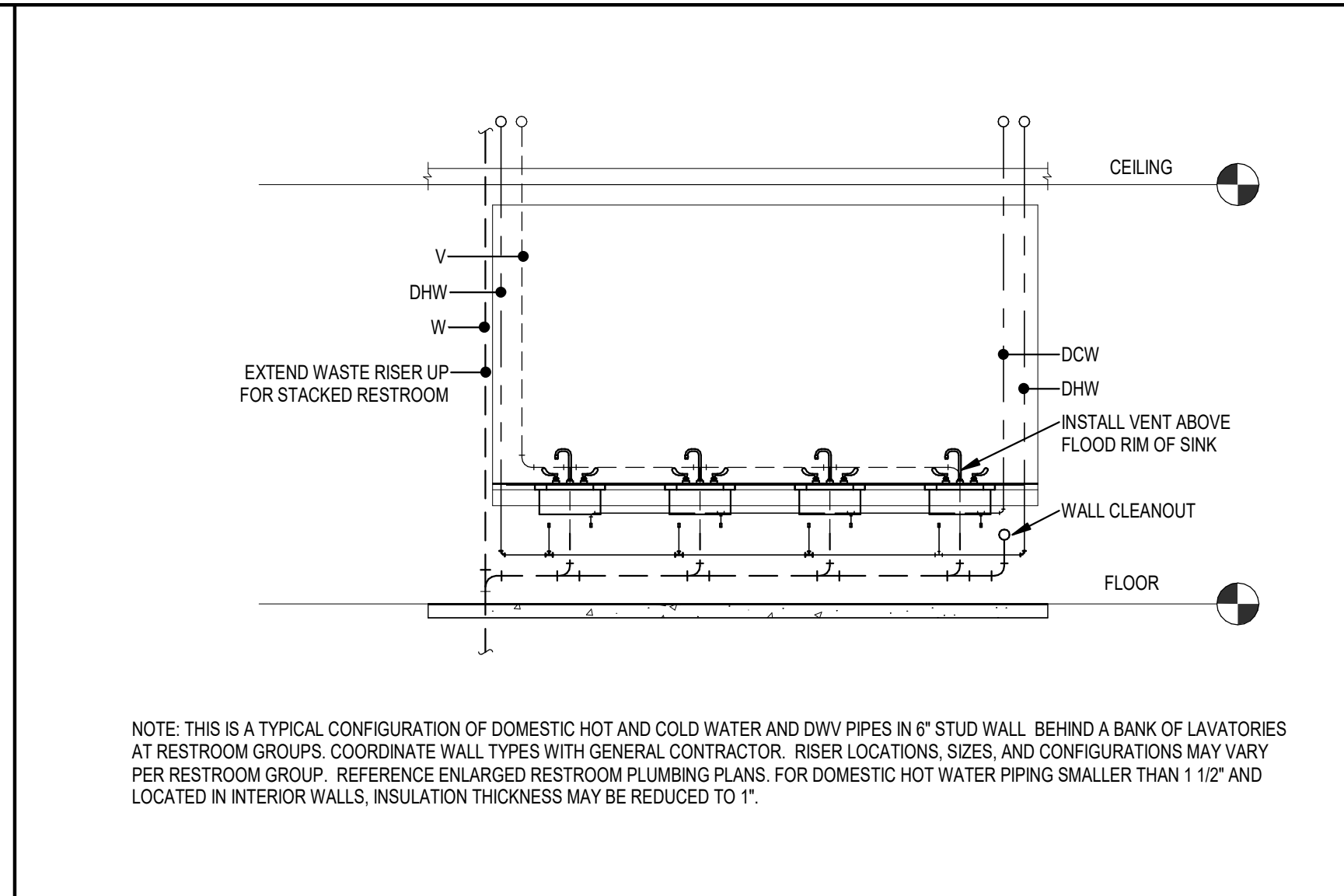
2/6/2024 10:06:15 AM



1 CLEANOUT - FLOOR MOUNT
SCALE: NONE

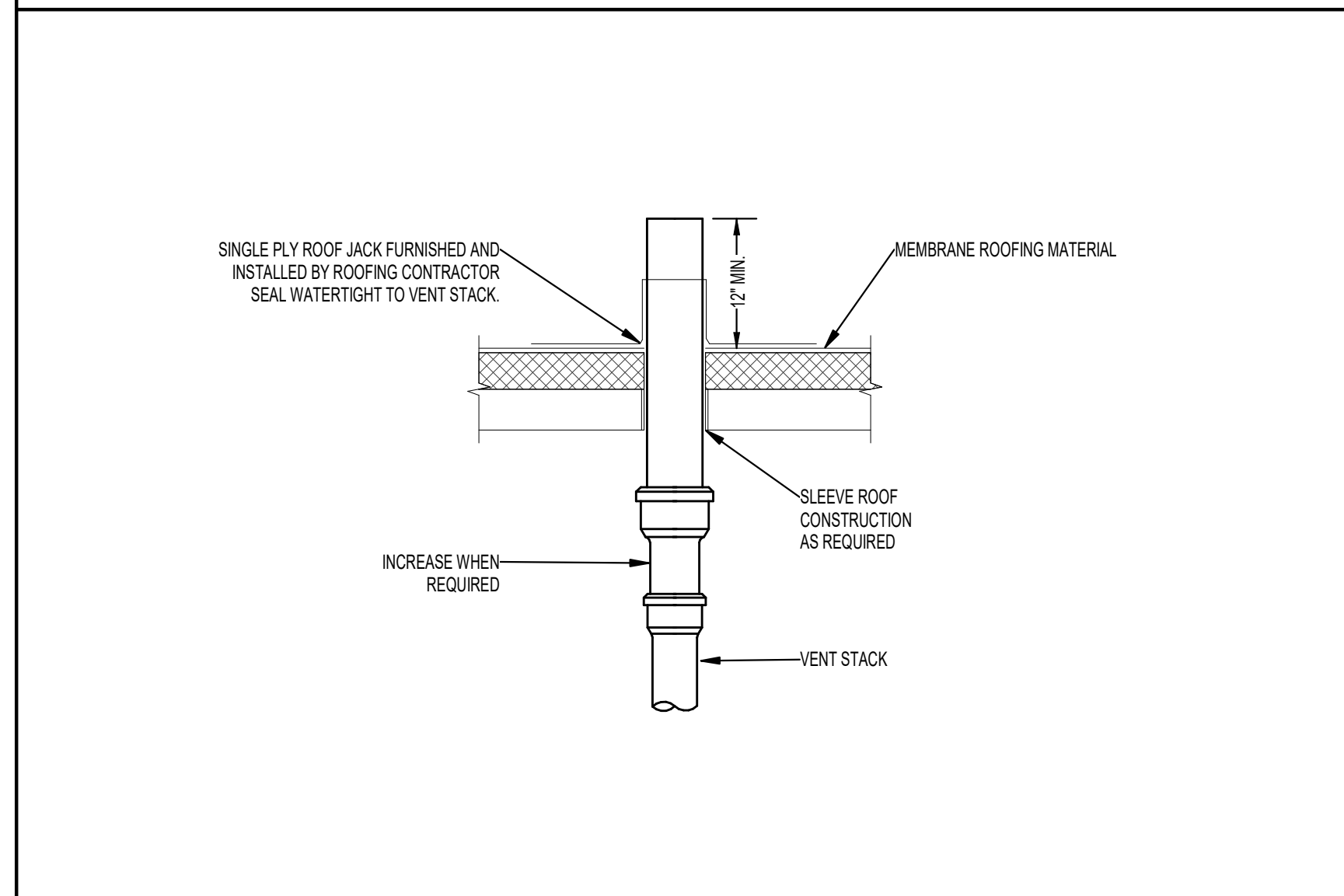


2 CLEANOUT - WALL INSTALLATION
SCALE: NONE

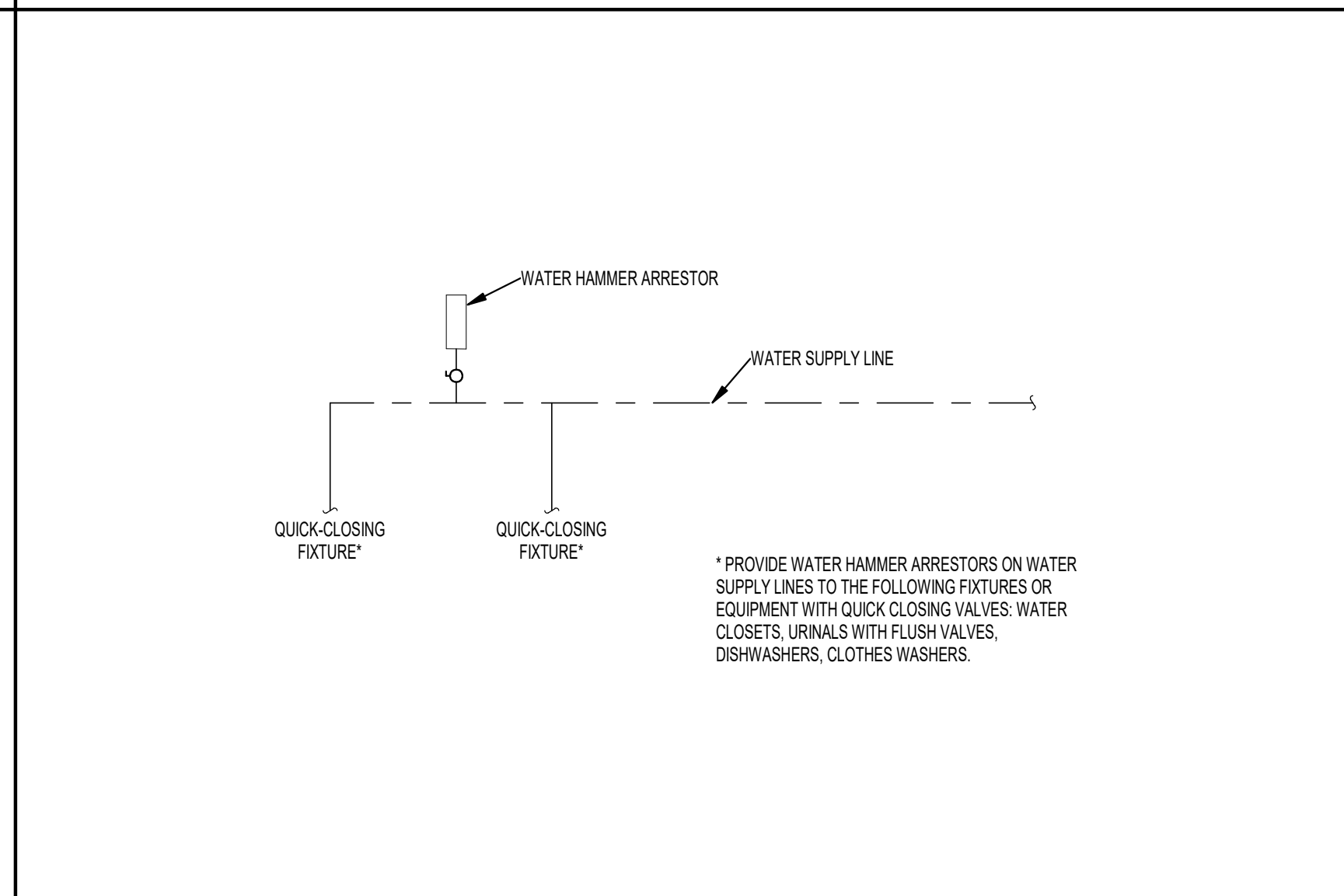


3 TYPICAL PLUMBING AT BANK OF LAVATORIES
SCALE: NONE

NOTE: THIS IS A TYPICAL CONFIGURATION OF DOMESTIC HOT AND COLD WATER AND DHW PIPES IN 6" STUD WALL BEHIND A BANK OF LAVATORIES AT RESTROOM GROUPS. COORDINATE WALL TYPES WITH GENERAL CONTRACTOR. RISER LOCATIONS, SIZES, AND CONFIGURATIONS MAY VARY PER RESTROOM GROUP. REFERENCE ENLARGED RESTROOM PLUMBING PLANS. FOR DOMESTIC HOT WATER PIPING SMALLER THAN 1 1/2" AND LOCATED IN INTERIOR WALLS, INSULATION THICKNESS MAY BE REDUCED TO 1".



4 VENT THROUGH ROOF
SCALE: NONE

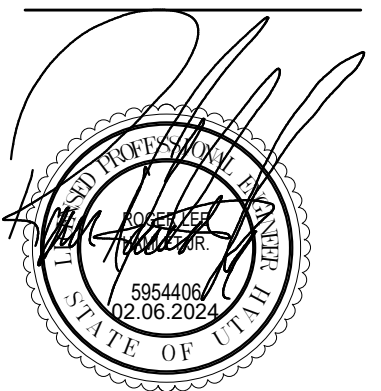


5 WATER HAMMER ARRESTOR
SCALE: NONE

* PROVIDE WATER HAMMER ARRESTORS ON WATER SUPPLY LINES TO THE FOLLOWING FIXTURES OR EQUIPMENT WITH QUICK-CLOSING VALVES: WATER CLOSETS, URINALS WITH FLUSH VALVES, DISHWASHERS, CLOTHES WASHERS.



6 PLUMBING CHASEPIPING-ACCESSIBLE
SCALE: NONE



△ DATE REVISION

PROJECT NUMBER 23100

PLUMBING DETAILS

2/6/2024 10:06:16 AM

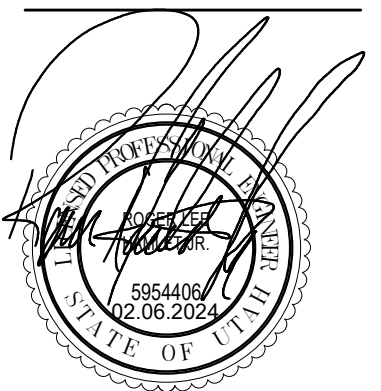
A B C D

1 2 3 4 5

PLUMBING FIXTURE

PLAN CODE	DESCRIPTION	C.W.	H.W.	WASTE	VENT	REMARKS
FN-1	FUNNEL DRAIN	0"	0"	3"	0"	JR SMITH 3811 CAST IRON FUNNEL WITH ACID RESISTANT COATING. INCLUDE DEEP SEAL TRAP AND TRAP SEAL. WOODFORD MODEL 26 HOSE BIB WITH DOUBLE CHECK VALVES IN CHROME FINISH. PROVIDE LOOSE KEY HANDLE.
HB-1	HOSE BIBB	3/4"	0"	0"	0"	KOHLER MODEL K-123C36-SANA HARDWIRED SENSOR FAUCET IN BRUSHED NICKEL. PROVIDE ASSE 1070 MIXING VALVE AND POWER SUPPLY. KOHLER VERTICYL LAVATORY SINK IN WHITE NOTE THAT THE SINK FAUCET IS MATCHED TO THE SOAP DISPENSER SPECIFIED IN ARCHITECTURAL PLANS. COORDINATE ORDER SO THAT SOAP DISPENSER MATCHES THE FAUCET.
L-1	WALL MOUNTED HARDWIRED SENSOR FAUCET. 0.5 GPM. GRID DRAIN SINK UNDERMOUNT VITREOUS CHINA	1/2"	1/2"	2"	1 1/2"	JUST MANUFACTURING A1865-J WALL HUNG SERVICE SINK IN 304 STAINLESS STEEL 20" X 15" X 12" BOWL WITH WALL MOUNTED 10 INCH GOOSE-NECK FAUCET. JUST MFG JS-47-TGSA. PROVIDE 1 1/2" GRID DRAIN. PROVIDE ISOLATION BALL VALVE AND DUAL CHECK BACKFLOW PREVENTER (WATTS LFTR OR EQUAL) ABOVE CEILING PROVIDE ACCESS LOCATED TO FACILITATE EASY ACCESS FROM LADDER.
SS-1	WALL MOUNTED UTILITY STYLE SERVICE SINK WITH WALL MOUNTED SINK FAUCET.	1/2"	1/2"	2"	1 1/2"	SERVICE SINK FAUCET ONLY. MOEN 8230 WALL MOUNT FAUCET IN ROUGH CHROME. WITH INTEGRAL VACUUM BREAKER. 3/4" HOSE THREAD SPOUT. LEVER HANDLES. WALL BRACKET AND PAIL HOOK. PROVIDE 4 FOOT HOSE WITH FAUCET. PROVIDE ISOLATION BALL VALVE AND DUAL CHECK BACKFLOW PREVENTER (WATTS LFTR OR EQUAL) ABOVE CEILING PROVIDE ACCESS PANEL LOCATED TO FACILITATE EASY ACCESS FROM LADDER.
SS-2	SERVICE SINK FAUCET.	1/2"	1/2"	0"	0"	AMERICAN STANDARD WASHBROOK MODEL 6590 001. VITREOUS CHINA. SIPHON JET URINAL. PROVIDE ZURN ZEMSR03AV-S-U-L-F-YK-P000-HW6 0.125 GPF SENSOR OPERATED HARDWIRED FLUSH VALVE. FLUSH VALVE SHALL HAVE ALL METAL HOUSING. AND SOLID RING PIPE SUPPORT. OR EQUAL. PROVIDE POWER SUPPLY FOR FLUSH VALVE.
U-1	URINAL. VITREOUS CHINA. SIPHON JET. HARDWIRED SENSOR FLUSH VALVE. 0.125 GPF	3/4"	0"	2"	1 1/2"	AMERICAN STANDARD AFWALL 2257 101. VITREOUS CHINA. SIPHON JET WATER CLOSET. AMERICAN STANDARD 1501 100 HEAVY DUTY SEAT WITH SELF-SUSTAINING HINGE. PROVIDE ZURN ZEM009AV-HWS-1-KK 1.6 GPF SENSOR OPERATED HARDWIRED FLUSH VALVE. FLUSH VALVE SHALL HAVE ALL METAL HOUSING. AND SOLID RING PIPE SUPPORT. PROVIDE ADEQUATE HARDWIRED POWER CONVERTERS TO POWER ALL W.CS. OR EQUAL. PROVIDE BARIATRIC DUTY CARRIER RATED TO 1000 LBS. JR SMITH 0211Y-M54-XK.
WC-1	WATER CLOSET, WALL MOUNT, HARDWIRED SENSOR FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.6 GPF	1"	0"	4"	2"	GUY GREY WHITE POWDER COATED STEEL WALL BOX. VM08 "T" SERIES WITH QUARTER TURN VALVES.
WWB-1	WASHING MACHINE WALL BOX	3/4"	3/4"	2"	1 1/2"	

BD RR Renovation
 9450 State St, Sandy, UT
 BD Medical
 Construction Documents - February 06, 2024



△ DATE REVISION

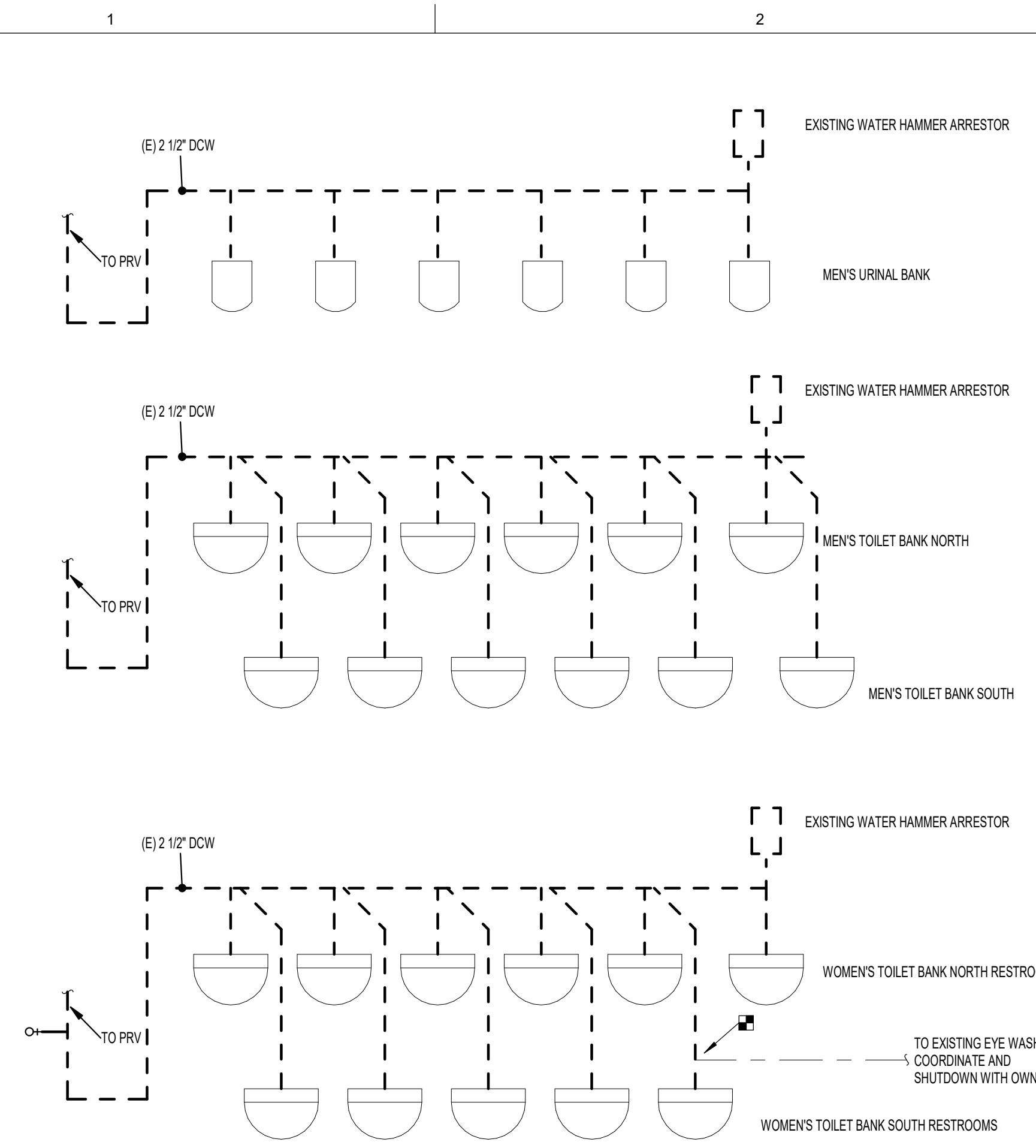
PROJECT NUMBER 23100

PLUMBING SCHEDULES

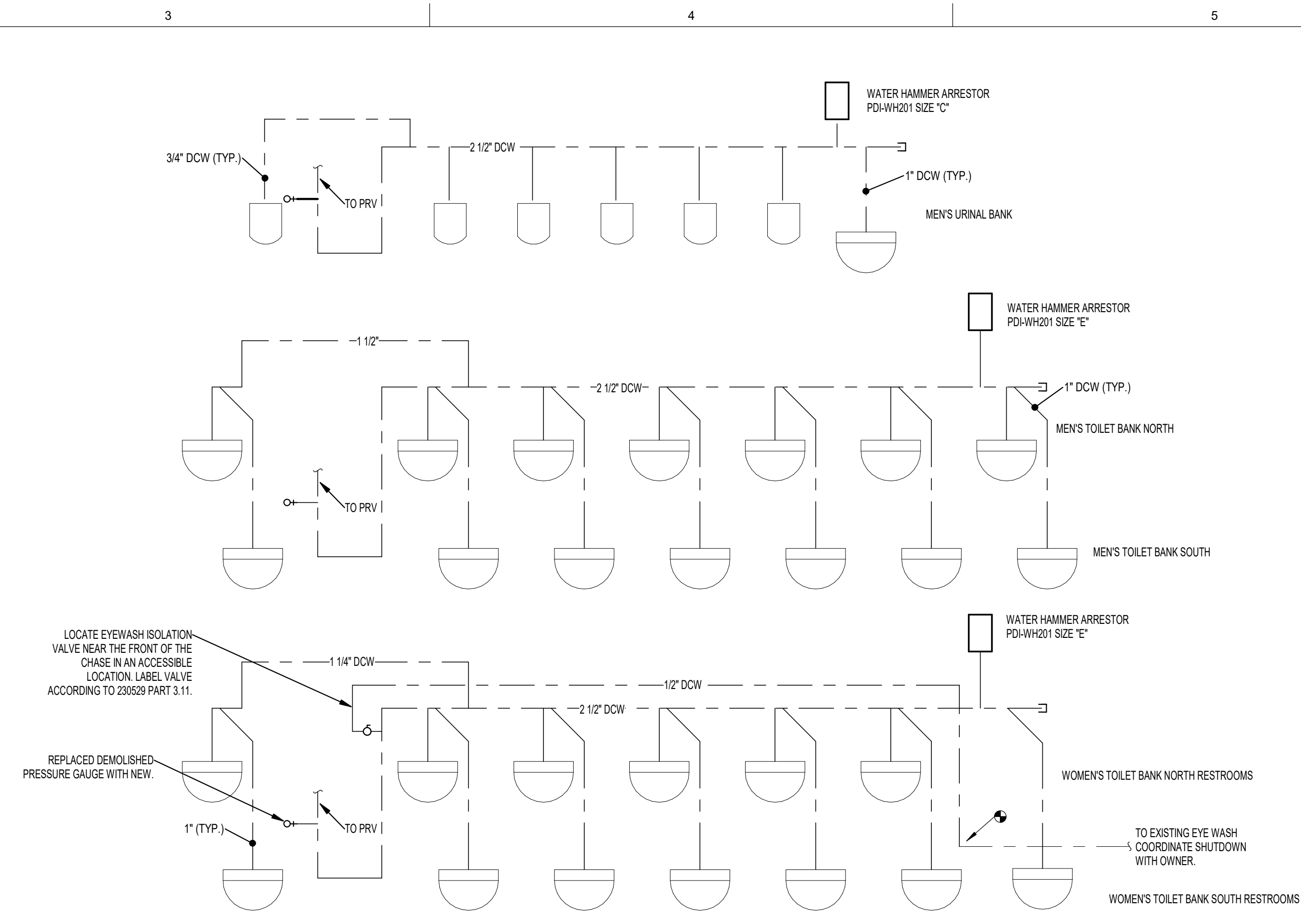
PL601

FFKR ARCHITECTS
 730 Pacific Avenue · Salt Lake City, Utah 84104
 ☎ 801.521.6186 · FFKR.COM

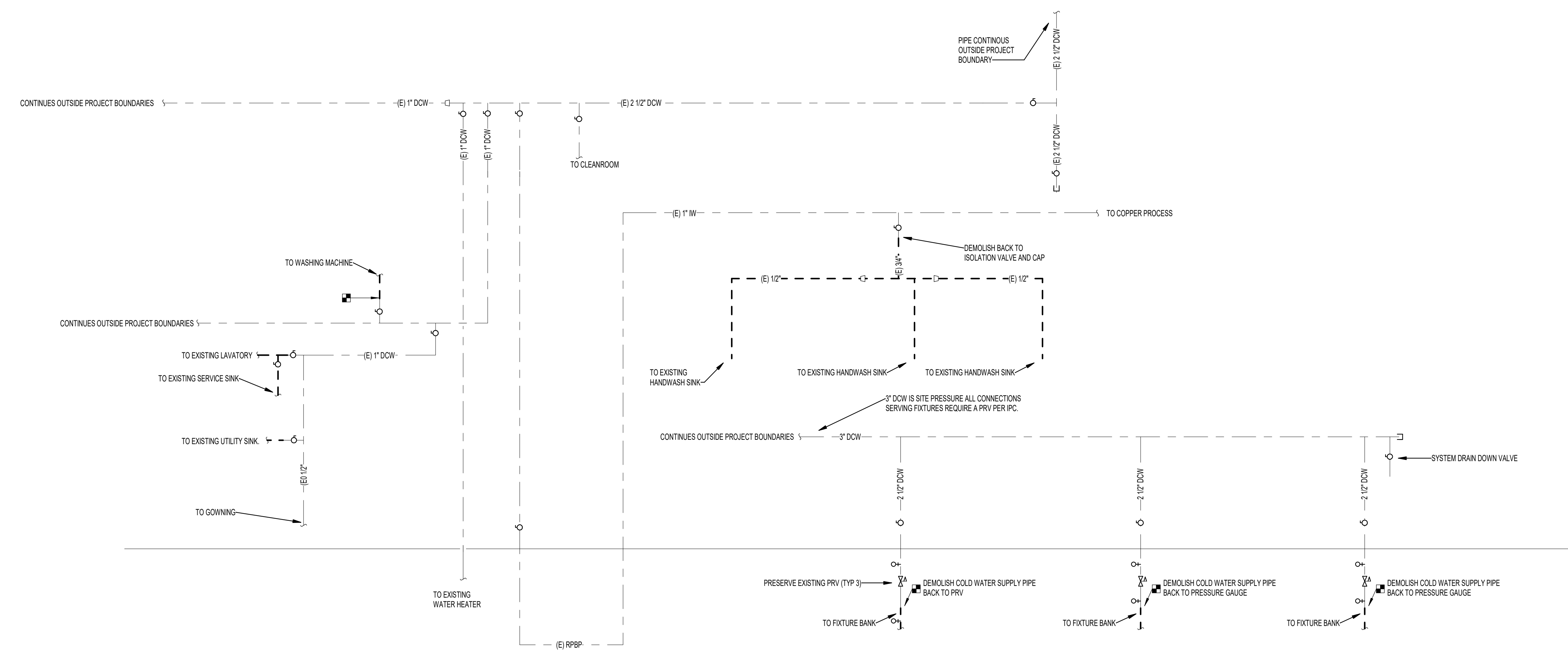
2/6/2024 10:06:17 AM



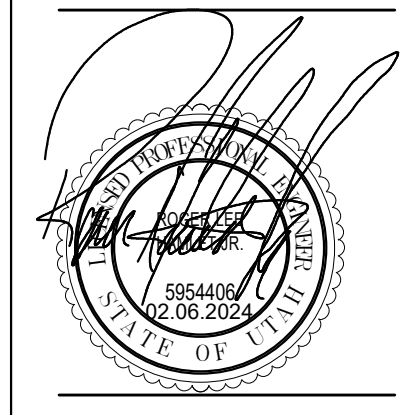
2 DOMESTIC COLD WATER PLUMBING CHASE DEMO
SCALE: NONE



3 DOMESTIC COLD WATER PLUMBING CHASE NEW WORK
SCALE: NONE



1 DOMESTIC COLD DEMO SCHEMATIC
SCALE: NONE



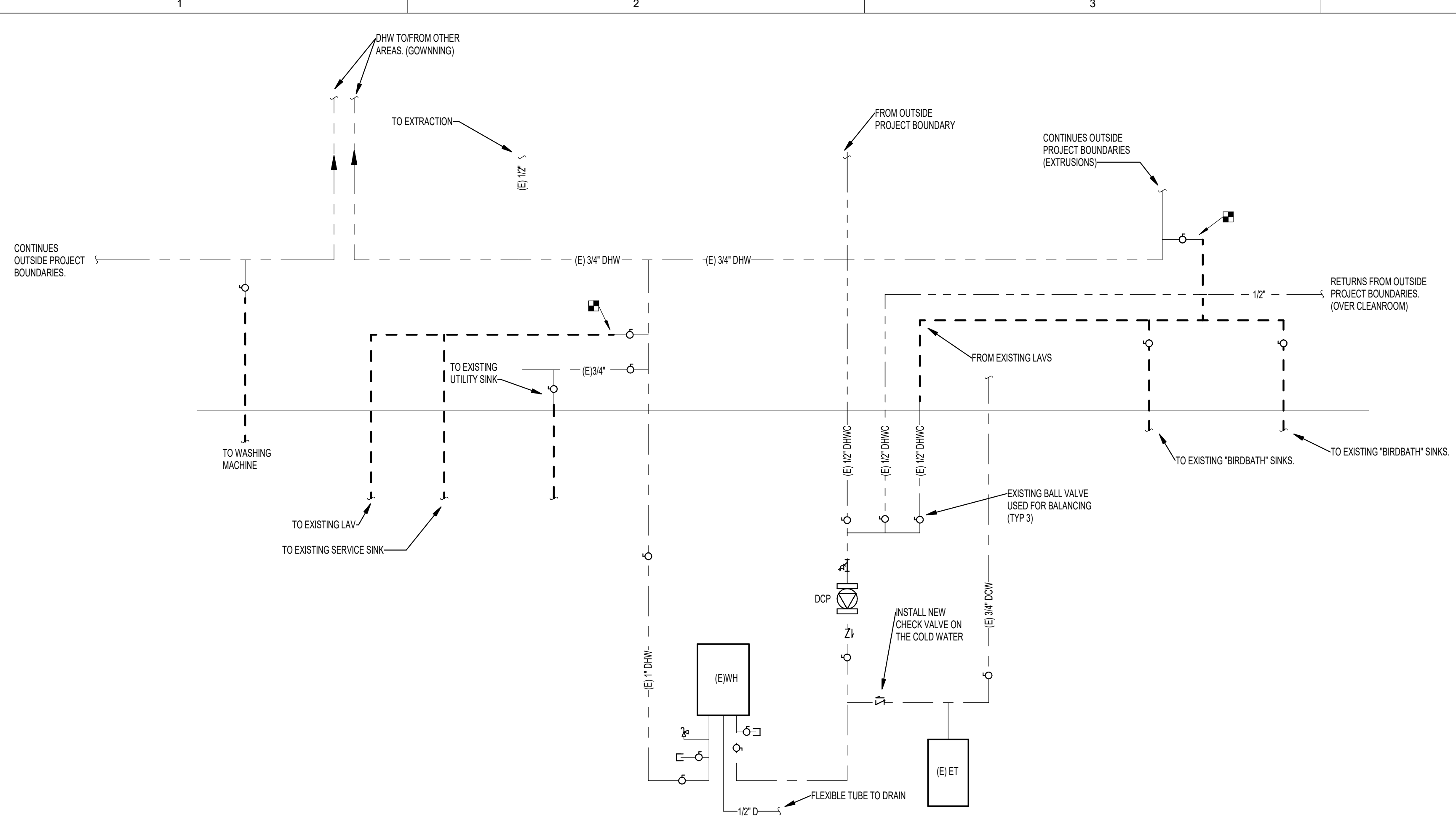
Δ	DATE	REVISION

PROJECT NUMBER 23100

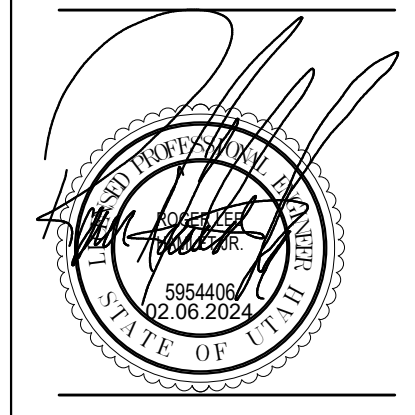
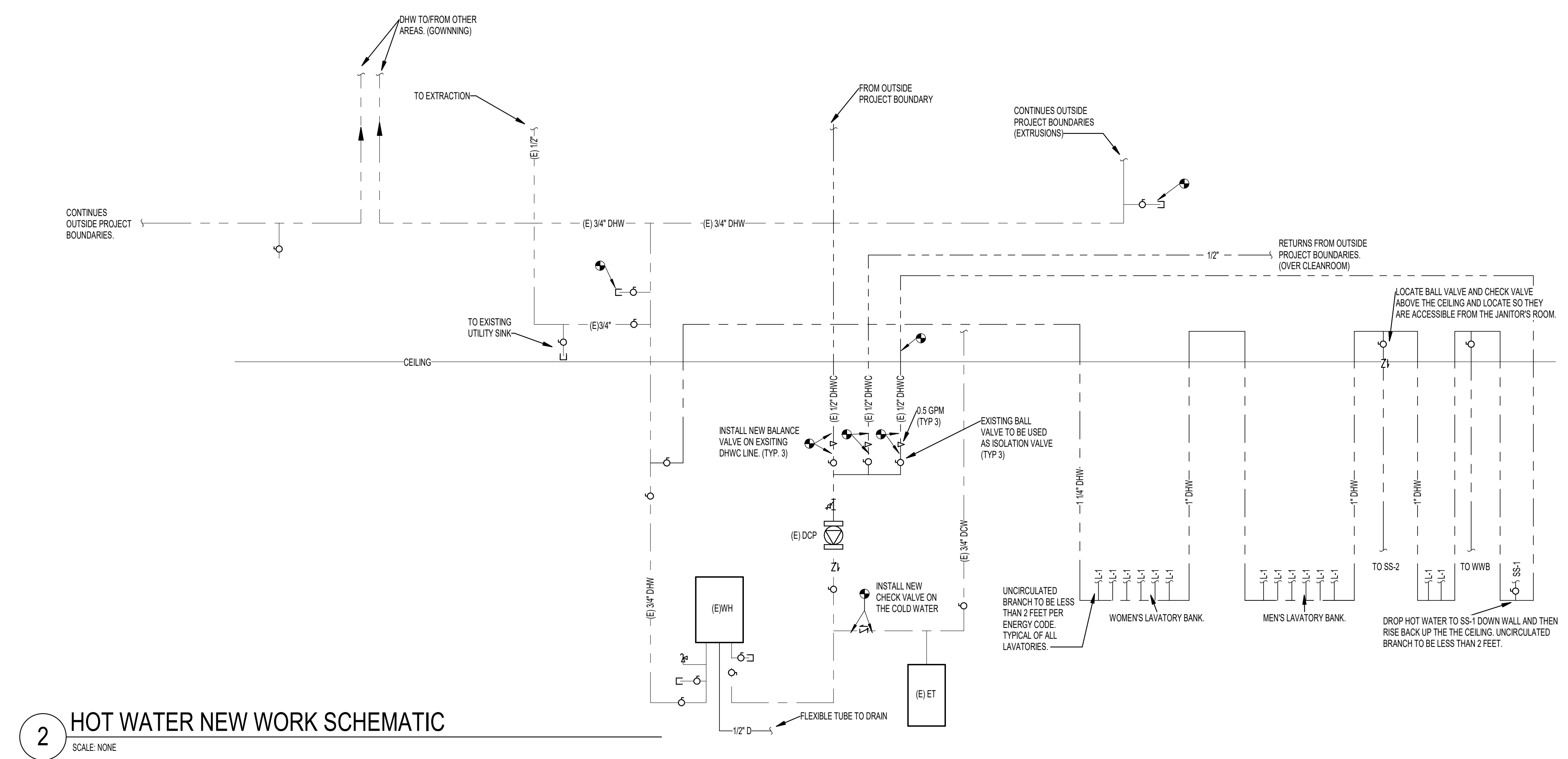
COLD WATER PLUMBING SCHEMATICS

2/6/2024 10:06:17 AM

1 HOT WATER DEMO SCHEMATIC
SCALE: NONE



2 HOT WATER NEW WORK SCHEMATIC
SCALE: NONE



Δ	DATE	REVISION

PROJECT NUMBER 23100

HOT WATER SCHEMATICS

2/6/2024 10:05:38 AM

A B C D

1

2

3

4

5

MECHANICAL LEGEND

NOTE: NOT ALL SYMBOLS WILL BE USED ON SHEETS.

BURIED OR UNDERFLOOR DUCT		CHILLED WATER RETURN	X" CHR	TEMPERED WATER	X" T
DUCT SIZE (IN/FIRST FIGURE IS SIDE SHOWN)		CHILLED WATER SUPPLY	X" CHS	ARGON	X" AR
FLEXIBLE DUCT (HELICAL)		CONDENSER WATER RETURN	X" CR	CARBON DIOXIDE	X" CO2
FLEXIBLE DUCT CONNECTION		CONDENSER WATER SUPPLY	X" CS	DEIONIZED WATER	X" DI
SPIN-IN W/ MVD		HEATING WATER RETURN	X" HWR	DEIONIZED WATER CIRCULATING	X" DIC
AIR FLOW STATION		HEATING WATER SUPPLY	X" HWS	FUEL OIL RETURN	X" FOR
COMBINATION FIRE/SMOKE DAMPER		RADIANT FLOOR RETURN	X" RFR	FUEL OIL SUPPLY	X" FOS
FIRE DAMPER		RADIANT FLOOR SUPPLY	X" RFS	HELIUM	X" HE
GRAVITY BACKDRAFT DAMPER		REFRIGERANT LIQUID	X" RL	HYDROGEN	X" H
MANUAL VOLUME DAMPER		REFRIGERANT SUCTION	X" RS	INDUSTRIAL WATER (NON-POTABLE)	X" IW
MOTORIZED DAMPER		SNOWMELT RETURN	X" SMR	MEDICAL AIR	X" MA
SMOKE DAMPER		SNOWMELT SUPPLY	X" SMS	NITROGEN	X" N
THERMOSTAT OR TEMP SENSOR W/ EQUIPMENT TAG		STEAM	X" S	NITROUS OXIDE	X" N2O
RADIAL SUPPLY DIFFUSERS		STEAM CONDENSATE RETURN	X" SCR	OXYGEN	X" O2
RETURN GRILLE		GROUND LOOP RETURN	X" GLR	REVERSE OSMOSIS	X" RO
SUPPLY DIFFUSER		GROUND LOOP SUPPLY	X" GLS	VACUUM	X" VAC
SUPPLY SLOT DIFFUSER		HOT GAS	X" HG	WATER TREATMENT	X" WT
DUCT TRANSITION		HOT GAS BYPASS	X" HGBP	ACCESS PANEL	
ELBOW W/ TURNING VANES		AQUASTAT		CARBON DIOXIDE SENSOR	
TEE W/ 45° ENTRY		FLOW SWITCH		CARBON MONOXIDE SENSOR	
WYE W/ 45° ENTRY		IN-LINE PUMP		HUMIDISTAT OR HUMIDITY SENSOR	
EXHAUST AIR DUCT DOWN		PRESSURE GAUGE W/ GAUGE COCK		NITROGEN DIOXIDE SENSOR	
EXHAUST AIR DUCT SECTION		STRAINER		POINT OF CONNECTION TO EXISTING	
EXHAUST AIR DUCT UP		TEMPERATURE & PRESSURE TEST PLUG		POINT OF REMOVAL FROM EXISTING	
RETURN AIR DUCT DOWN		TEMPERATURE SENSING WELL		AIR VENT (AUTOMATIC)	
RETURN AIR DUCT SECTION		THERMOMETER		AUTOMATIC CONTROL VALVE (2-WAY)	
RETURN AIR DUCT UP		VENTURI FLOW METER		AUTOMATIC CONTROL VALVE (3-WAY)	
SUPPLY AIR DUCT DOWN		DIRECTION OF FLOW		BALL VALVE	
SUPPLY AIR DUCT SECTION		ELBOW DOWN		BUTTERFLY VALVE	
SUPPLY AIR DUCT UP		ELBOW UP		CALIBRATED BALANCE VALVE	
FIRE DEPT. HORN & LIGHT		PIPE CAP		CHECK (SWING OR LIFT AS REQ'D) VALVE	
FIRE HOSE CABINET		REDUCER		CURB COCK	
POST TYPE FDC CONNECTION		TEE DOWN		GAS COCK	
WALL TYPE FDC CONNECTION		UNION		GATE OS & Y PATTERN VALVE	
YARD HYDRANT		CONDENSATE DRAIN	X" D	GATE VALVE	
FLOOR DRAIN		DOMESTIC COLD WATER	X" DCW	MOTORIZED ACTUATOR	
FLOOR OR GRADE CLEANOUT		DOMESTIC HOT WATER	X" DHW	P&T RELIEF VALVE	
FLOOR SINK		DOMESTIC HOT WATER CIRCULATING	X" DHWC	P&T RELIEF VALVE	
GRADE CLEANOUT W/ CONCRETE PAD		FIRE SERVICE	X" F	PLUG VALVE	
HOSE BIBB OR SILL COCK		GREASE WASTE ABOVE GRADE	X" GW	PRESSURE REDUCING VALVE	
MANHOLE		GREASE WASTE BELOW GRADE	X" GW	SOLENOID VALVE	
REDUCED PRESSURE BACKFLOW PREVENTOR		NATURAL GAS	X" G	THERMAL EXPANSION VALVE	
VENT THROUGH THE ROOF		OVERFLOW DRAIN	X" OD	DETAIL TAG	
WALL CLEANOUT		ROOF DRAIN	X" RD	KEYED NOTE	
EXPANSION JOINT		SANITARY (PLBG) VENT	X" V	SECTION CUT LINE	
FLEXIBLE PIPE CONNECTION		SANITARY WASTE ABOVE GRADE	X" W		
HEAT TRACING		SANITARY WASTE BELOW GRADE	X" W		
		COMPRESSED AIR	X" CA		

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS WILL BE USED ON SHEETS.

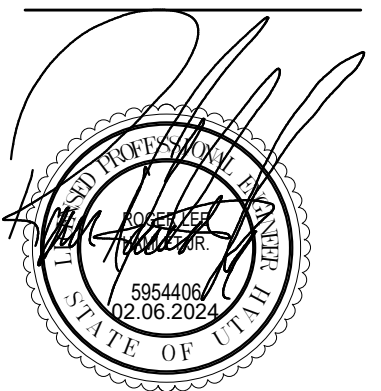
AD	ACCESS DOOR
AF	AIRFOIL
AFB	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BI	BACKWARD INCLINE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CAS	COMBUSTION AIR SUPPLY
CBV	CALIBRATED BALANCE VALVE
CFM	CUBIC FEET PER MINUTE
CV	CONSTANT VOLUME
CV	CONTROL VALVE
DB	DRY BULB
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DSN	DOWN SPOUT NOZZLE
DW	DISHWASHER
E	EXISTING
EA	EACH OR EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
ELEV	ELEVATION
ENCL	ENCLOSURE
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FO	FLAT OVAL
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLON
GD	GARAGE DRAIN
GEA	GREASE EXHAUST AIR
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HR	HOUR
HT	HEIGHT
IN	INCH
IN WC	INCHES OF WATER COLUMN
IN WG	INCHES OF WATER GAUGE
L	LAVATORY OR LOUVER
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS
MECH	MECHANICAL
MIN	MINIMUM
MPSA	MEDIUM PRESSURE SUPPLY AIR
MUA	MAKE-UP AIR
MVD	MANUAL VOLUME DAMPER
NC	NOISE CRITERIA OR NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OB	OPPOSED BLADE DAMPER
OD	OVERFLOW DRAIN
OPCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OPFI	OWNER FURNISHED, OWNER INSTALLED
PD	PRESSURE DROP
PG	PROPYLENE GLYCOL
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RAD	RADIUS
RD	ROOF DRAIN
RLF	RELIEF AIR
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
SA	SUPPLY AIR OR SHOCK ARRESTOR
SEN	SENSIBLE
SF	SQUARE FEET
SIM	SIMILAR
SL	SEA LEVEL
SP	STATIC PRESSURE
SS	SERVICE SINK OR STAINLESS STEEL
TA	TRANSFER AIR
TOD	TOP OF DUCT
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
U	UNUAL
V	VENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VENT	FLUE VENT
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH THE ROOF
W	WASTE
W	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WPD	WATER PRESSURE DROP
WT	WEIGHT
Ø	ROUND OR DIAMETER

DRAWING INDEX - MECHANICAL

#	SHEET NAME
M001	MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS
FP101	LEVEL 1 FIRE PROTECTION PLAN
MH101	LEVEL 1 MECHANICAL PLANS
MH501	DUCT DETAILS
MH601	MECHANICAL SCHEDULES
PL100	UNDERGROUND PLUMBING PLANS
PL101	LEVEL 1 PLUMBING PLANS
PL301	PLUMBING SECTIONS
PL501	PLUMBING DETAILS
PL601	PLUMBING SCHEDULES
PL701	COLD WATER PLUMBING SCHEMATICS
PL702	HOT WATER SCHEMATICS

FFKR ARCHITECTS
 730 Pacific Avenue • Salt Lake City, Utah 84104
 O 801.521.6186 • FFKR.COM

BD RR Renovation
 9450 State St, Sandy, UT
 BD Medical
 Construction Documents - February 06, 2024



△ DATE REVISION

PROJECT NUMBER 23100

MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS

M001

2/6/2024 10:05:54 AM

GENERAL NOTES - DEMO

- A. ALL ITEMS SHOWN DARK AND DASHED ARE EXISTING.
- B. ALL ITEMS SHOWN DARK AND DASHED ARE TO BE DEMOLISHED. PATCH AND REPAIR ALL ITEMS DAMAGED DURING DEMOLITION.
- C. WHERE SYSTEMS ARE PARTIALLY DEMOLISHED, SEE NEW WORK PLANS FOR INFORMATION ON NEW CONNECTIONS. WHERE NO NEW CONNECTIONS ARE SHOWN ON NEW WORK PLANS, CAP PARTIALLY DEMOLISHED SYSTEMS SO THE SYSTEM CAN BE RETURNED TO SERVICE.
- D. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK.
- E. REVIEW ARCHITECTURAL PLANS FOR EXTEND OF DEMOLITION.

TEST AND BALANCE NOTES

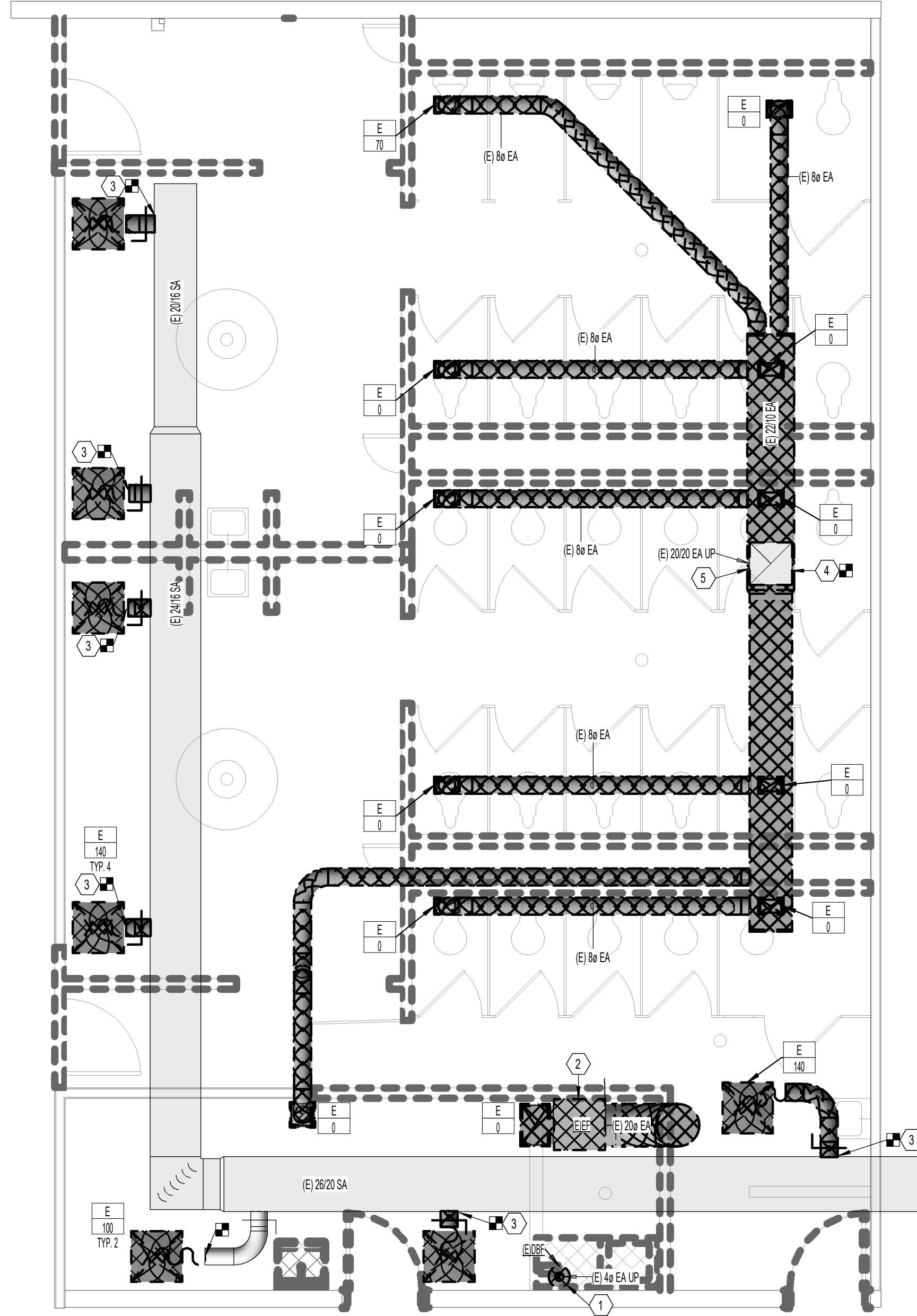
- A. SUPPLY AIRFLOW MUST BE VERIFIED PRIOR TO DEMOLITION. PROVIDE THE SERVICES OF A BALANCER TO MEASURE THE SUPPLY AIRFLOW PRIOR TO DEMOLITION. IF MEASURED AIRFLOW DIFFERS MORE THAN 10 CFM FROM WHAT IS SHOWN ON THE DRAWINGS, INFORM THE ENGINEER AND DO NOT PROCEED WITH INSTALLATION OF NEW DUCT AND DIFFUSER PRIOR TO THEIR RESPONSE. VERIFICATION IS REQUIRED FOR SUPPLY AIR ONLY.

GENERAL NOTES - NEW WORK

- A. RUNOUTS TO DIFFUSERS ARE TO BE NECK SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.
- B. DRAWINGS ARE SCHEMATIC AND ORGANIZED FOR CLARITY IN PLAN VIEW. REVIEW EXISTING CONDITIONS AND VERIFY ALL ROUTING PRIOR TO FABRICATING DUCT.
- C. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
- D. AIR TRANSFER DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 6MHS01 FOR SIZES H & J.

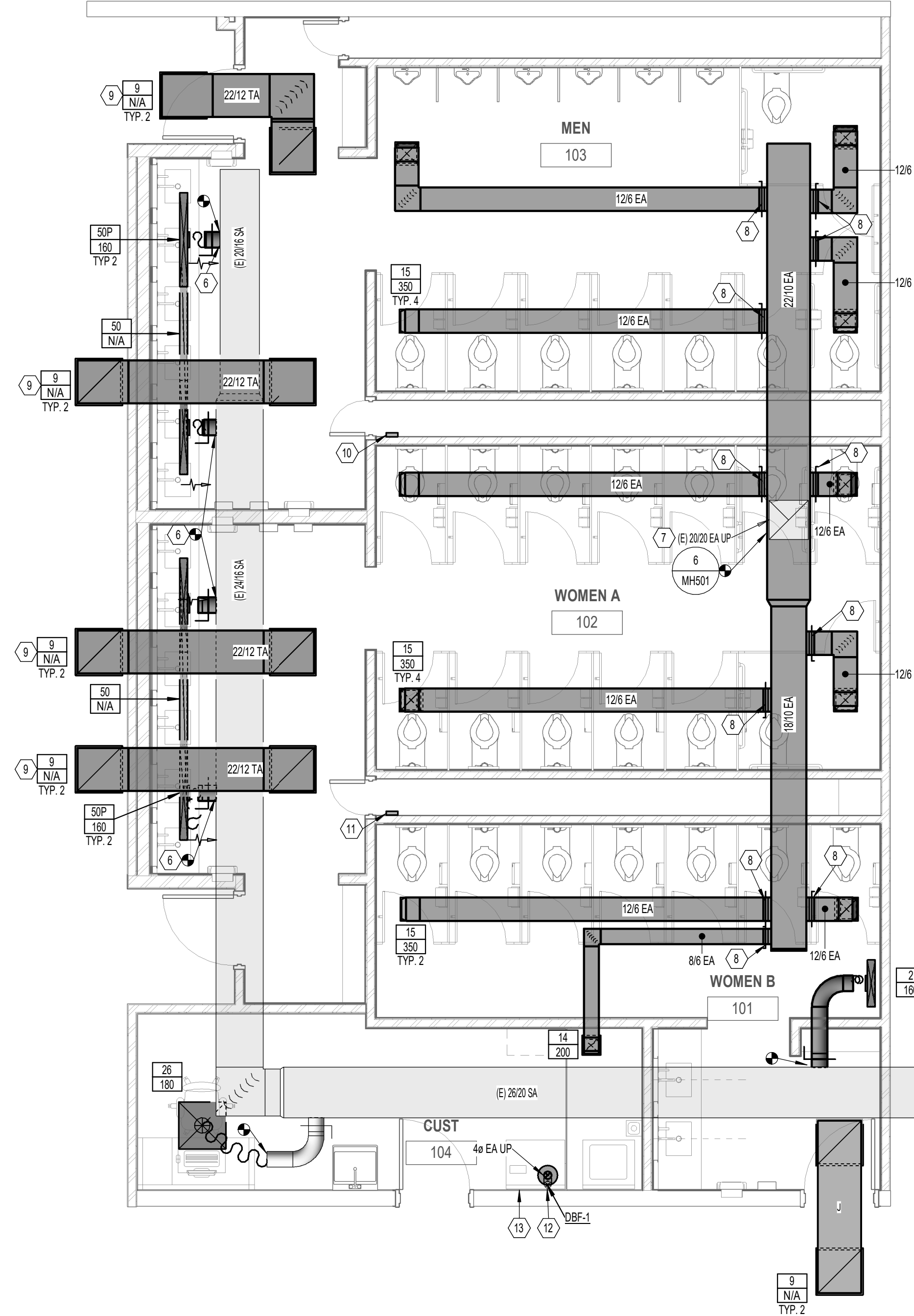
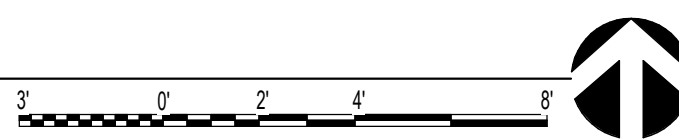
KEYED NOTES

1. DEMOLISH EXISTING DRYER BOOSTER FAN AND DUCT LEADING TO THE FAN. PRESERVE ROOF PENETRATION FOR REATTACHMENT OF NEW DUCTWORK.
2. DEMOLISH EXISTING EXHAUST FAN, DIFFUSER AND ASSOCIATED DUCTWORK. PATCH ROOF PENETRATION.
3. DEMOLISH EXISTING RUNOUT TO THE MAIN RECTANGULAR BRANCH. CAP AND SEAL.
4. DEMOLISH DUCT TO THIS POINT. PRESERVE 20"20 VERTICAL DUCT FOR RECONNECTION TO EXHAUST FAN.
5. REMOVE EXISTING EXHAUST FAN LOCATED ON THE ROOF ABOVE. PREPARE THE ROOF ABOVE FOR THE INSTALLATION OF A NEW EXHAUST FAN.
6. PROVIDE BRANCH DAMPERS AT THE TAKEOFF TO THE MAIN FOR ALL SUPPLY AIR. PROVIDE REMOTE ELECTRONIC ACTUATORS FOR BALANCING DAMPERS ABOVE HARD LID CEILINGS. LOCATE THE CONTROL BOX IN THE PLUMBING CHASE. WHERE EXISTING TAKEOFFS ARE BEING RE-USED, THE CONTRACTOR SHALL REPLACE ANY DAMPER THAT IS NOT COMPATIBLE WITH THE ELECTRONIC ACTUATOR. TYPICAL OF ALL SUPPLY DUCT BRANCHES. CLEARLY LABEL THE DAMPER THAT EACH SOCKET CONTROLS.
7. INSTALL NEW EXHAUST FAN (E-1) ON THE ROOF ABOVE. PROVIDE A NEW SEISMIC CURB FOR THE EXHAUST FAN. PATCH AND REPAIR ROOF.
8. PROVIDE BRANCH DAMPERS AT THE TAKEOFF FROM THE MAIN FOR ALL EXHAUST DUCT. DO NOT USE FACE DAMPERS FOR BALANCING. PROVIDE REMOTE ELECTRONIC ACTUATORS FOR BALANCING DAMPERS ABOVE HARD LID CEILINGS. LOCATE CONTROL BOX IN THE PLUMBING CHASE. (TYPICAL OF ALL EXHAUST DUCT BRANCHES.)
9. SEE CEILING GRILLE-GRILLE DETAIL (6MHS01) FOR ADDITIONAL DETAILS OF CONSTRUCTION. INSTALL AS SHOWN ON THESE DRAWINGS AND COORDINATE EXACT LENGTHS WITH EXISTING CONDITIONS. COORDINATE WITH LIGHT LOCATIONS TO ALLOW FOR A NEAT AND SYMMETRICAL INSTALLATION.
10. LOCATE THE BALANCING DAMPER CONTROL PANEL FOR DAMPERS SERVING THE MEN'S ROOM IN THIS APPROXIMATE LOCATION.
11. LOCATE THE BALANCING DAMPER CONTROL PANEL FOR DAMPERS SERVING THE WOMEN'S ROOM IN THIS APPROXIMATE LOCATION.
12. INSTALL NEW 4" EXHAUST DUCT. OFF SET ABOVE THE CEILING TO CONNECT TO NEW DRYER BOOSTER FAN (DBF-1). REUSE EXISTING ROOF PENETRATION.
13. INSTALL INDICATING PANEL AND SECONDARY LIMIT TRAP (TJERNLUND LT4) FOR DBF-1 ABOVE DRYER IN AN ACCESSIBLE LOCATION.



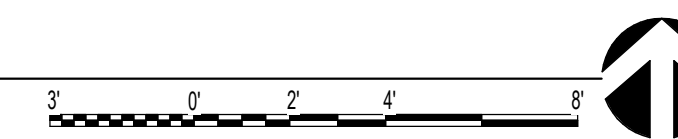
1 LEVEL 1 MECHANICAL DEMO PLAN

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



2 LEVEL 1 MECHANICAL PLAN

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



DATE REVISION

PROJECT NUMBER 23100

LEVEL 1
MECHANICAL
PLANS

MH101

2/6/2024 10:05:55 AM

A

B

C

D

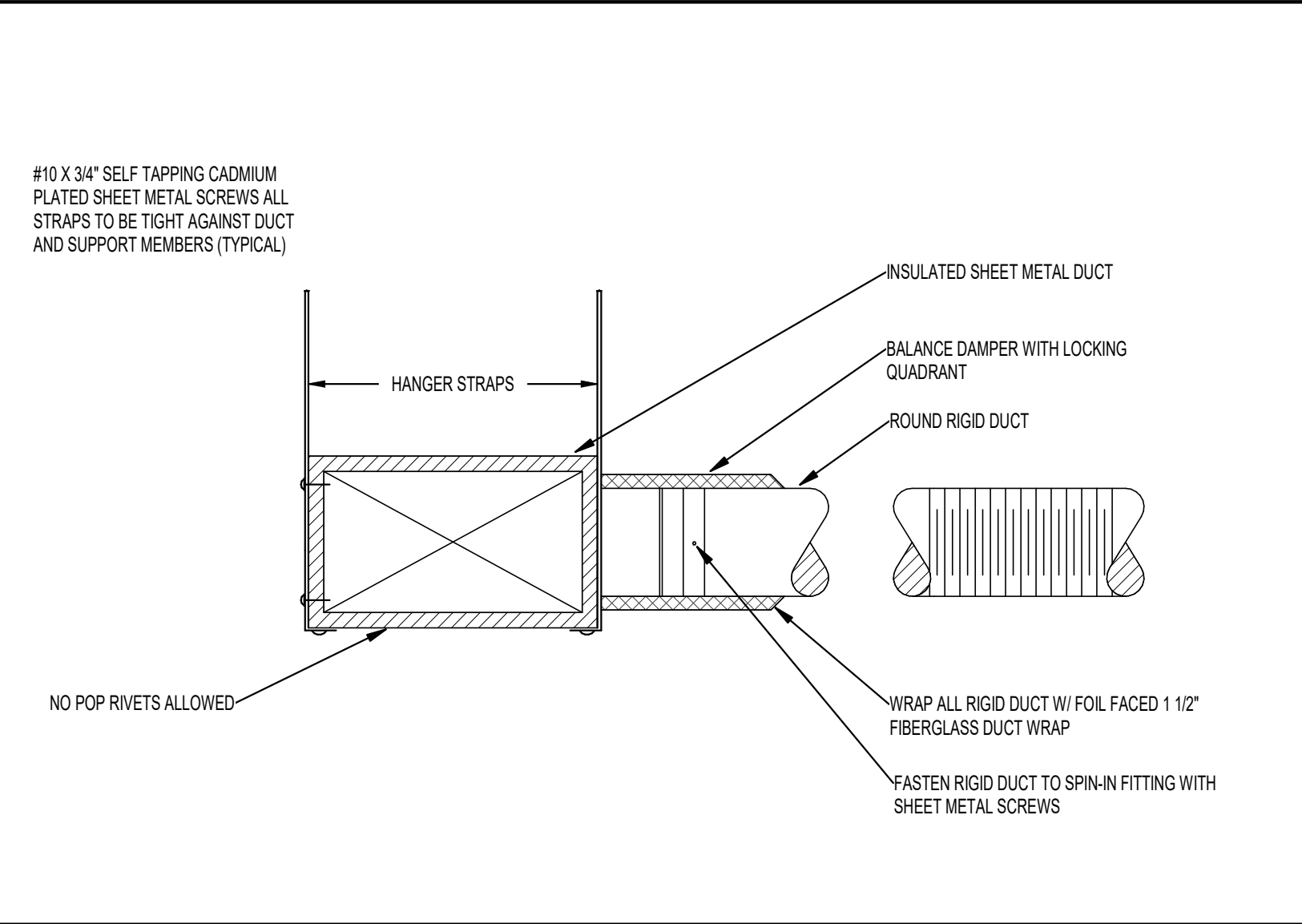
1

2

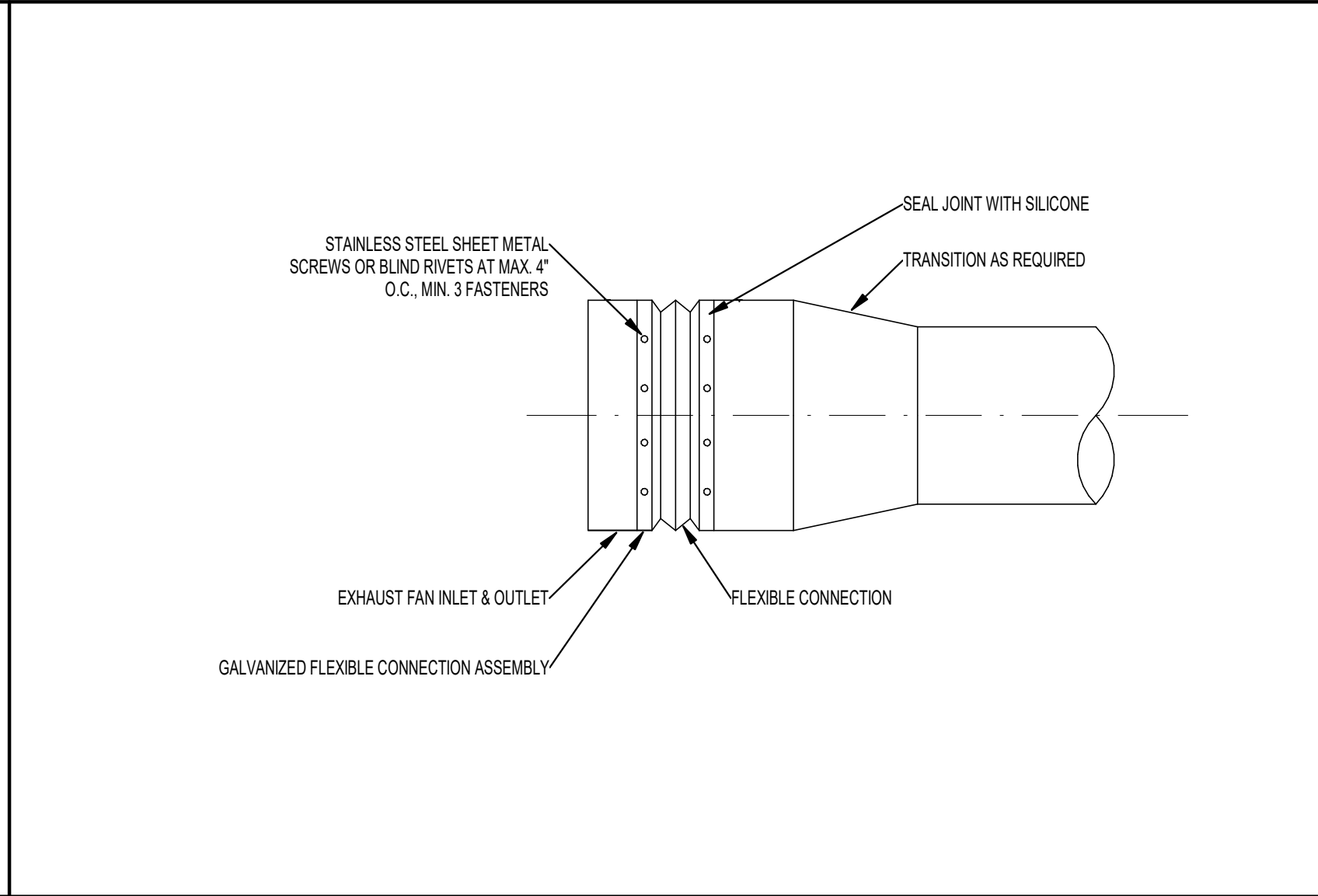
3

4

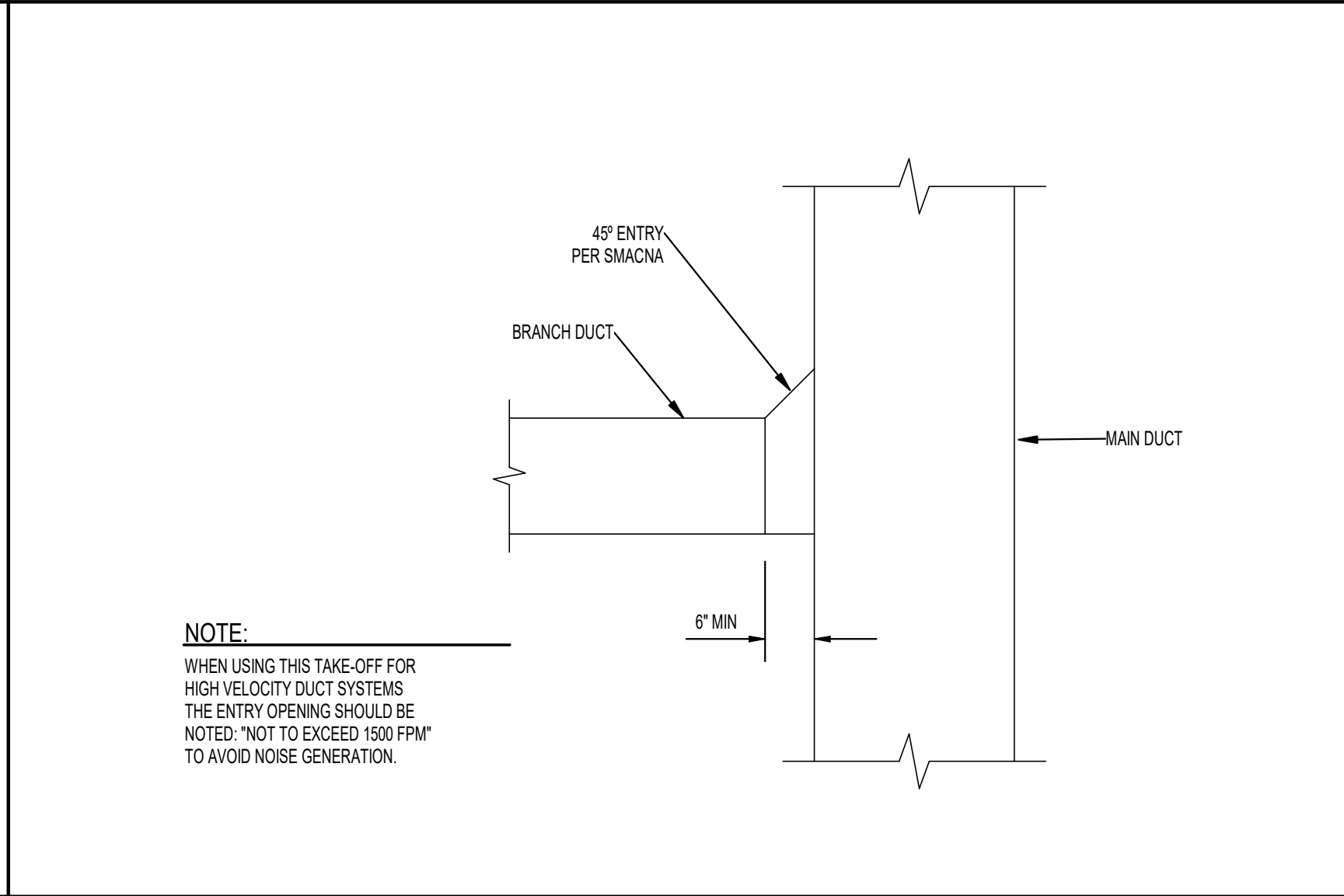
5



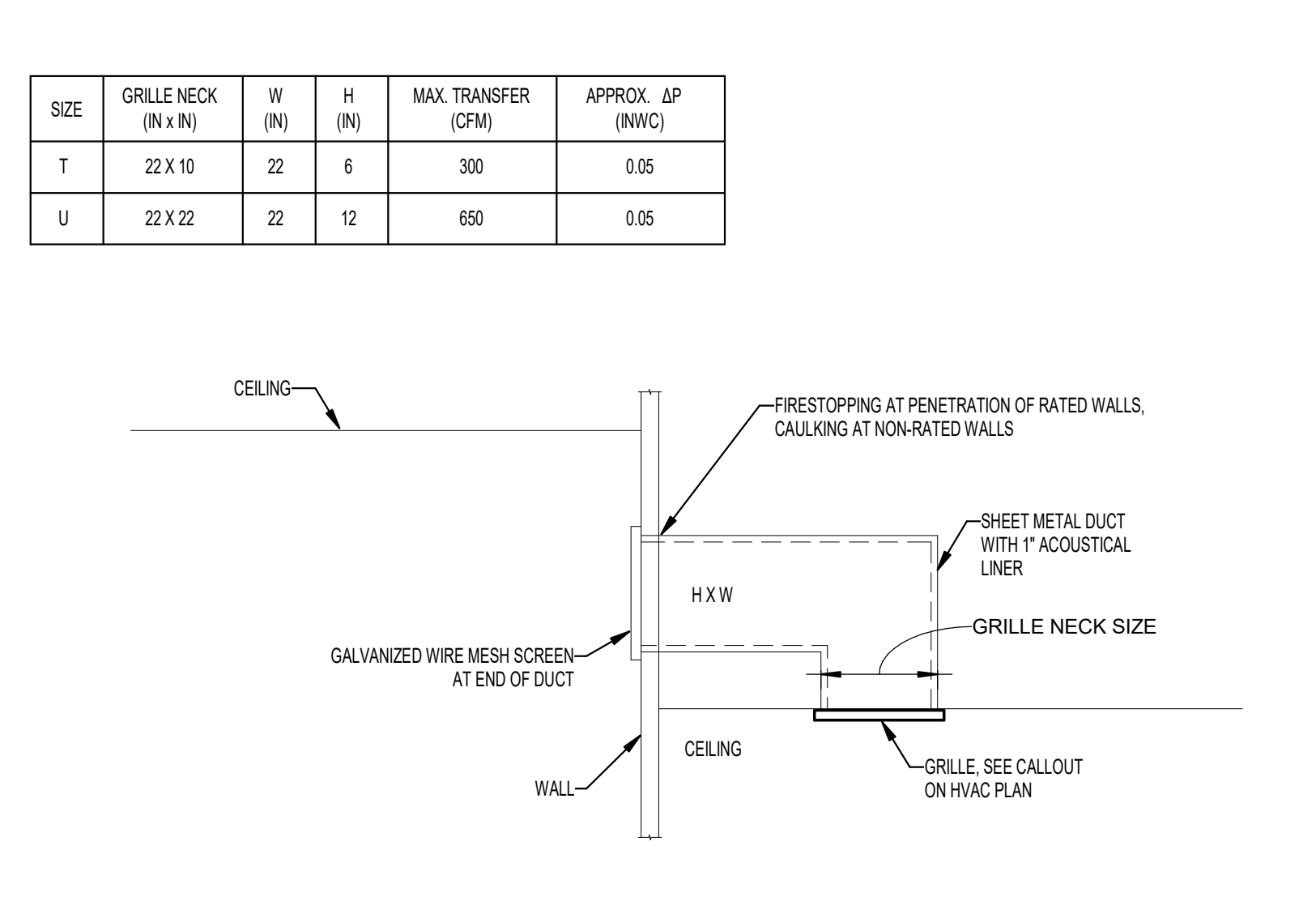
1 DUCT - SPIN IN FITTING WITH FLEX
SCALE: NONE



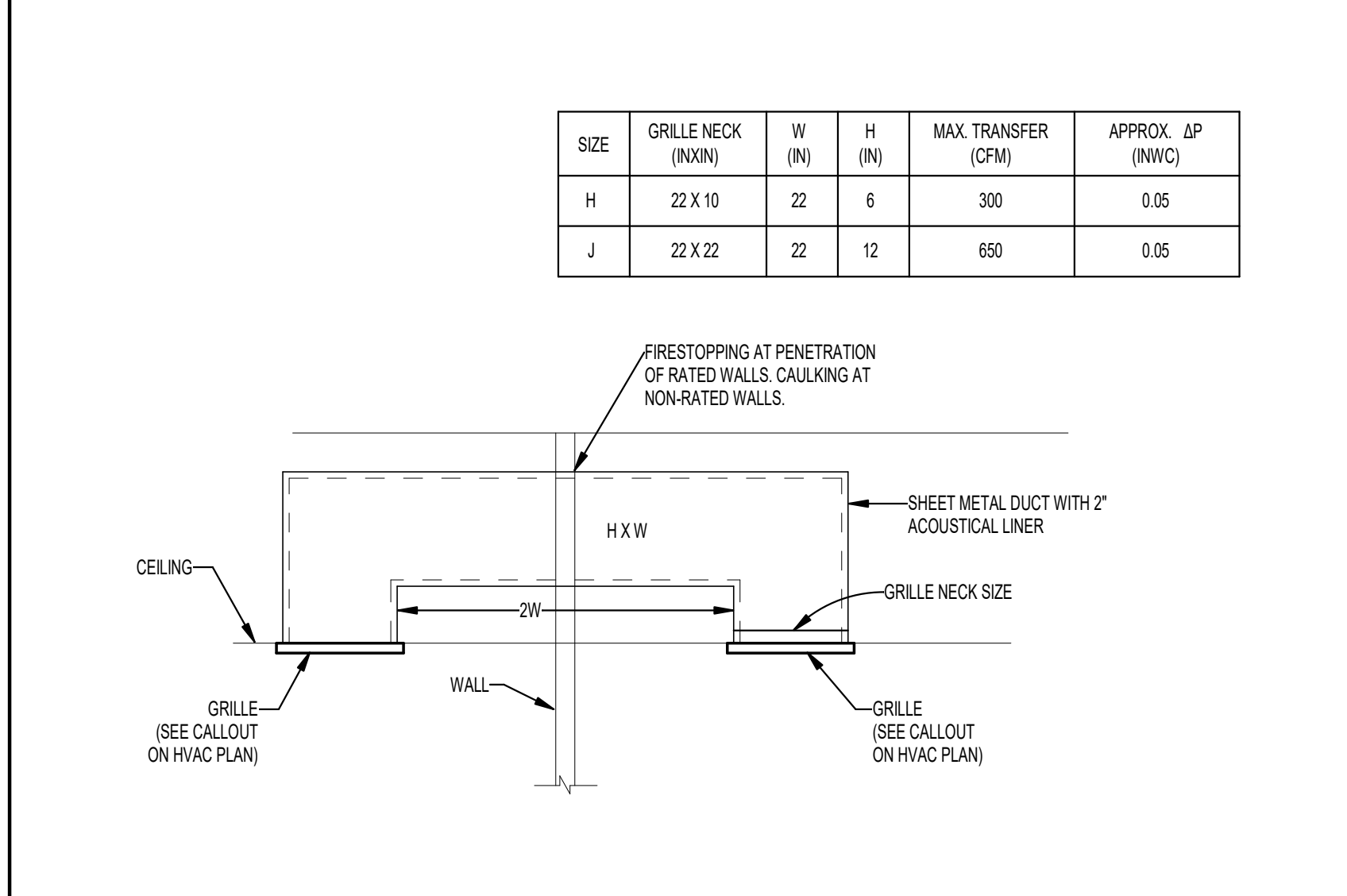
2 DUCT - EQUIPMENT FLEXIBLE CONNECTION
SCALE: NONE



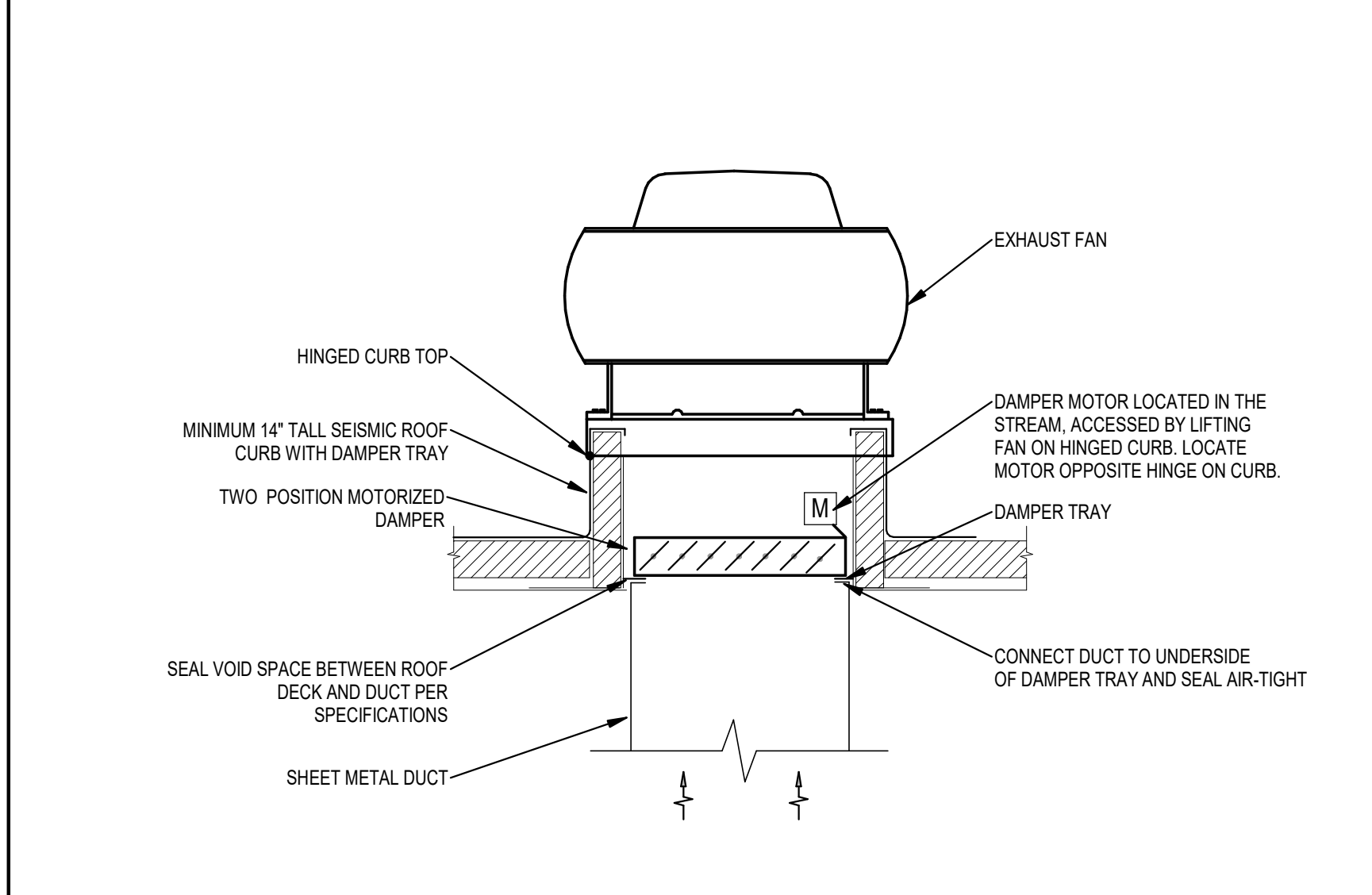
3 DUCT - TAKEOFF 45°
SCALE: NONE



4 DUCT - TRANSFER AIR (CEILING GRILLE-WALL)
SCALE: NONE



5 DUCT - TRANSFER AIR (CEILING GRILLE-GRILLE)
SCALE: NONE



6 EXHAUST FAN - MOTORIZED DAMPER IN CURB DETAIL
SCALE: NONE



△ DATE REVISION

PROJECT NUMBER 23100

DUCT DETAILS

MH501

2/6/2024 10:05:57 AM

D

C

B

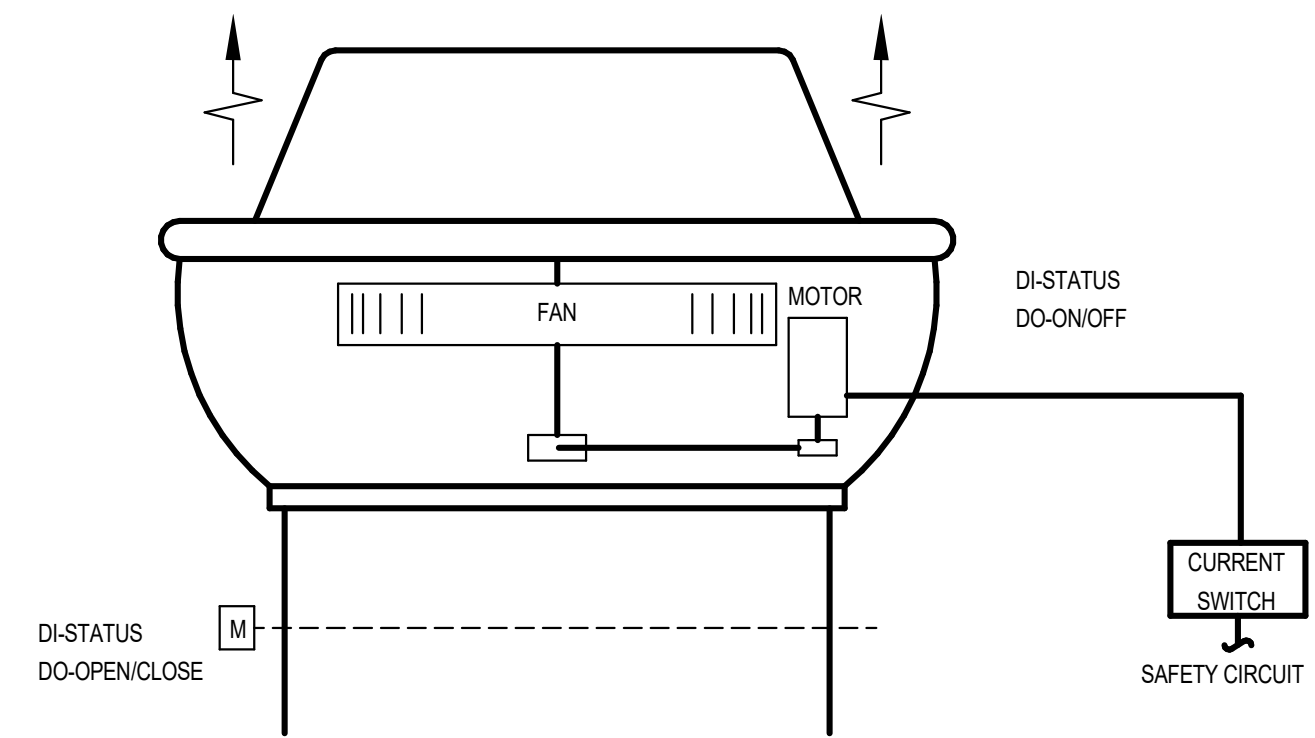
A

EXHAUST FAN SCHEDULE (EF)																				
PLAN CODE	SYSTEM DUTY	TYPE EQUIP	CFM	ESP @ ELEV	FAN RPM	BHP	HP	EFFICEINCY %	VOLTAGE	PHASE	SONES	DAMPER (GRAVITY OR MOTOR)	METHOD OF CONTROL	OPENING SIZE (IN)	HEIGHT (IN)	DIAMETER (IN)	MAX OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NO	REMARKS
EF-1	RESTROOM EXHAUST	CENTRIFUGAL UPBLAST	3700	0.75	1200	1.0	1.5	1.33	208	1	17.3	MOTORIZED (CD-1)	INTERLOCK WITH FAN	30 X 30	36	40	200	COOK	ACRU-D VF 189R17D	DIRECT DRIVE EC MOTOR WITH FAN MOUNTED SPEED CONTROL. FAN TO OPERATE DURING OCCUPIED HOURS.

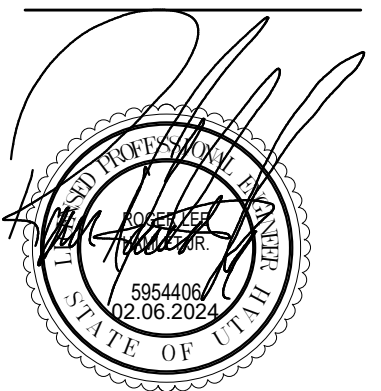
DRYER BOOSTER FAN SCHEDULE (DBF)													
PLAN CODE	SYSTEM DUTY	CFM	FAN RPM	WATTS	AMPS	VOLTAGE	PHASE	LENGTH (IN)	WIDTH (IN)	MAX OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NO	REMARKS
DBF-1	JANITOR ROOM DRYER	160	3000	50	0.8	120	1	10	14	30	TJERNLIND	LB2	UL705 DEDPV LISTED, CAPABLE OF EXHAUSTING 125 FEET OF EQUIVALENT DUCT LENGTH. INCLUDE STATUS PANEL AND SECONDARY LINT TRAP (TJERNLIND LT4 OR EQUAL).

AIR DEVICE															PLAN CODE	GRILLE CFM
PLAN CODE	TYPE AND DUTY	FACE SIZE (IN)	CONNECTION SIZE (IN)	FACE DIAMETER (IN)	NECK SIZE (IN)	CEILING TYPE (3)	MAX. FLOW (CFM)	MAX. T.P. (IN W.C.)	N.C. LEVEL MAX.	MIN. THROW (FT) (T50)	4-WAY MIN. THROW (FT) (T50)	2-WAY MIN. THROW (FT) (T50)	MANUFACTURER	MODEL NO.	REMARKS	
2	LINEAR SUPPLY	4'24"			8	MATCH CEILING	160	0.09	26	13			ANEMOSTAT	FF-200	SURFACE MOUNT MUD IN FRAME.	
9	PERFORATED RETURN	24'24"	22/22			MATCH CEILING	1200	0.05	17				TITUS	PAR		
14	PERFORATED EXHAUST	10'110"	8/8			MATCH CEILING	225	0.12	12				TITUS	8F		
15	PERFORATED EXHAUST	12'112"	10/10			MATCH CEILING	360	0.12	14				TITUS	8F		
26	RADIAL BLADE	24'24"			8	GRID	210	0.14	29	8(*)			AIR DIFFUSION PRODUCTS	DNR	NOTE 2	
50	CONTINUOUS LINEAR DIFFUSER	4'144"				MATCH CEILING	0	0.00	0				ANEMOSTAT	FF-100	12' CONTINUOUS SLOT DIFFUSER WITH SURFACE MOUNT BEVELED FRAME (MUD IN). LOCATE ACTIVE SECTIONS (#50P) AS INDICATED ON PLANS.	
50P	LINEAR SUPPLY	4'148"			8	MATCH CEILING	160	0.08	29	12			ANEMOSTAT	FF-100	48" ACTIVE SECTION OF CONTINUOUS SLOT DIFFUSER. PROVIDE CUSTOM LENGTH PLENUM OF APPROXIMATELY 30". FIELD VERIFY EXACT LENGTH PRIOR TO ORDERING. SEE PLANS FOR LOCATION AND QUANTITY. SEE THE CONTINUOUS DIFFUSER SCHEDULE FOR MORE INFORMATION.	

CONTROL DAMPER SCHEDULE (CD)										
PLAN CODE	SERVICE	TYPE	AIR FLOW (CFM)	WIDTH (IN)	HEIGHT (IN)	MAX FACE VELOCITY (FPM)	METHOD OF CONTROL	BLADE ORIENTATION	MANUFACTURER	MODEL NO
CD-1	EF-1	24V ACTUATOR	3700	20	20	1500	INTERLOCK WITH EF-1	OPPOSED BLADE	RUSKIN	TED50



1 EF-1 CONTROL DIAGRAM
SCALE: NONE

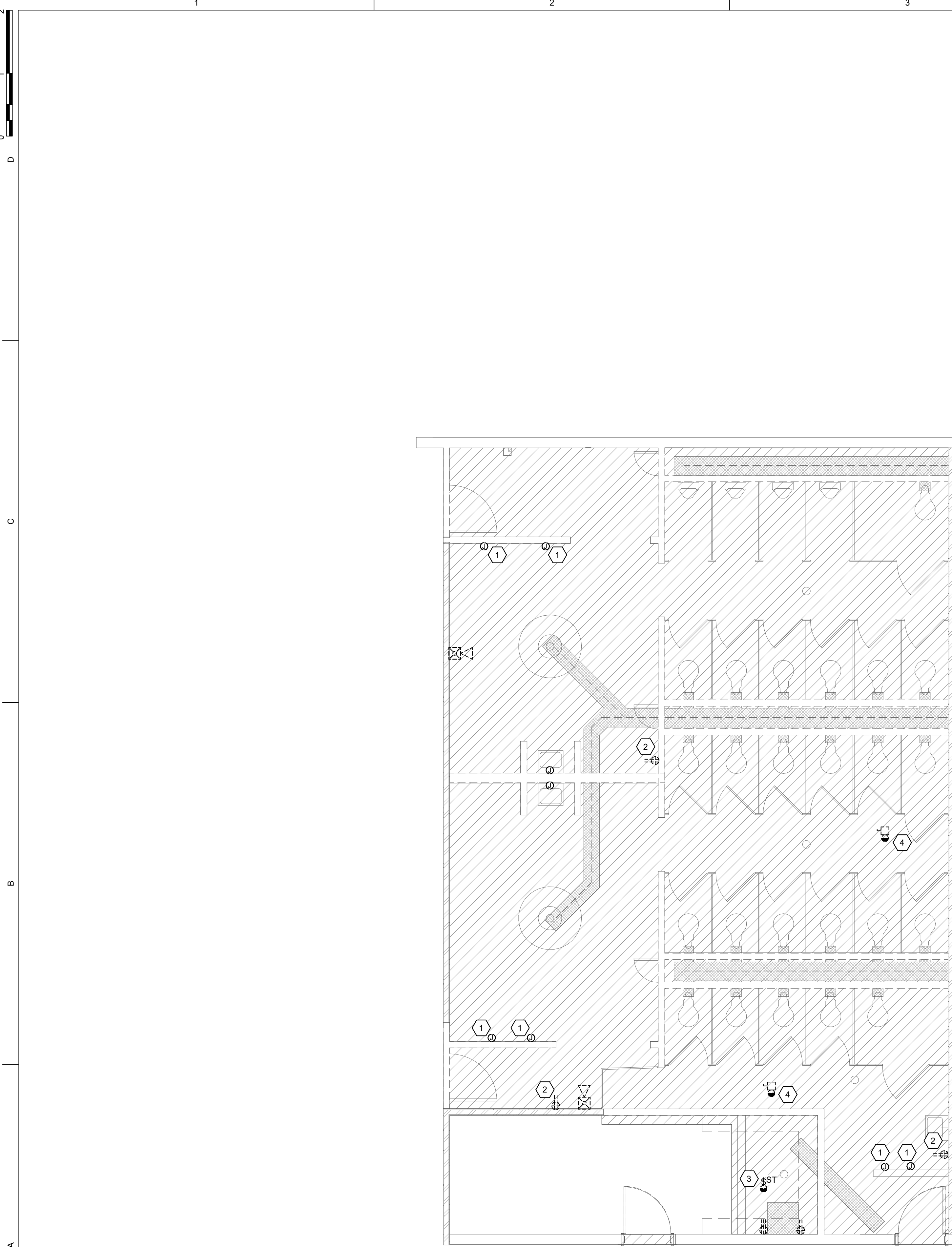


△ DATE REVISION

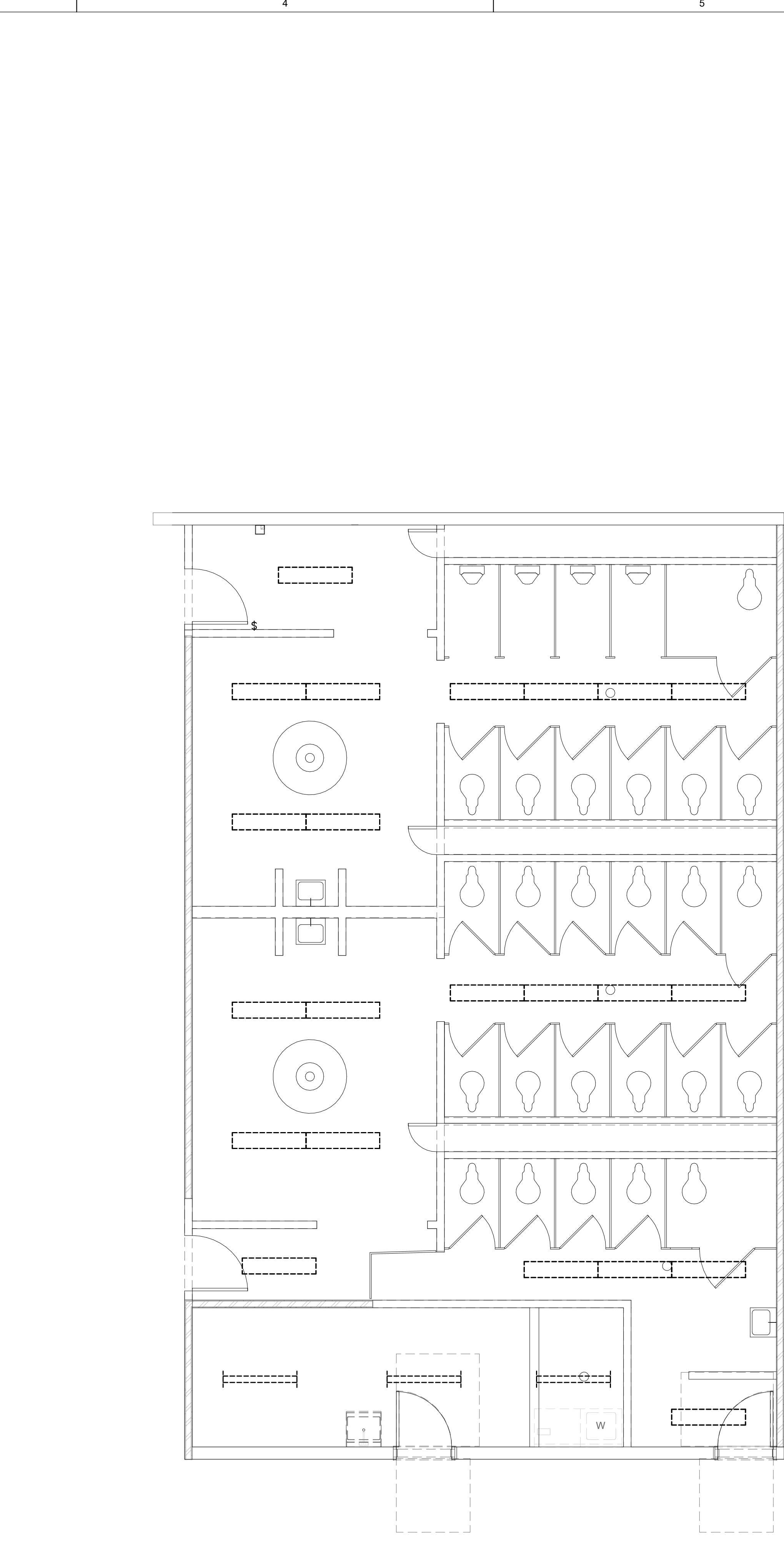
PROJECT NUMBER 23100

MECHANICAL SCHEDULES

2/15/2024 5:15:55 PM



A2 LEVEL 1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



A4 LEVEL 1 CEILING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

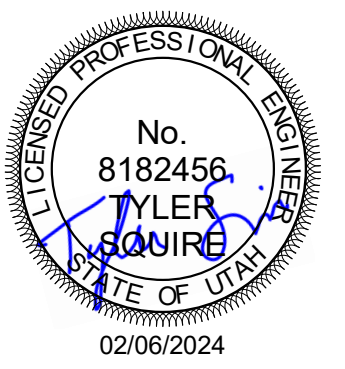
- 1 UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
- 2 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- 3 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 4 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- 5 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
- 6 REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- 7 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- 8 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE.
- 9 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.

SHEET KEYNOTES

- 1 DISCONNECT ELECTRICAL CONNECTIONS TO EXISTING HAND DRYERS THAT ARE BEING REMOVED. RE-CONNECT TO HAND DRYERS IN NEW LOCATIONS. EXTEND EXISTING CIRCUITS AS NEEDED.
- 2 CONNECT NEW RECEPTACLES IN THIS RESTROOM TO THE EXISTING RECEPTACLE CIRCUIT FEEDING RECEPTACLES THAT ARE BEING REMOVED.
- 3 DISCONNECT ELECTRICAL CONNECTIONS TO EXISTING DRYER BOOSTER FAN. RE-CONNECT TO DRYER BOOSTER FAN IN NEW LOCATION. EXTEND EXISTING CIRCUITS AS NEEDED.
- 4 DISCONNECT AND REMOVE ELECTRICAL CONNECTIONS TO EXHAUST FANS THAT ARE BEING REMOVED. EXISTING CIRCUITS MAY BE REUSED FOR NEW DEVICES. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
801.521.6186 - FFKR.COM

BD Restroom Renovation
9450 State St, Sandy, UT
BD Medical
Construction Documents - February 06, 2024

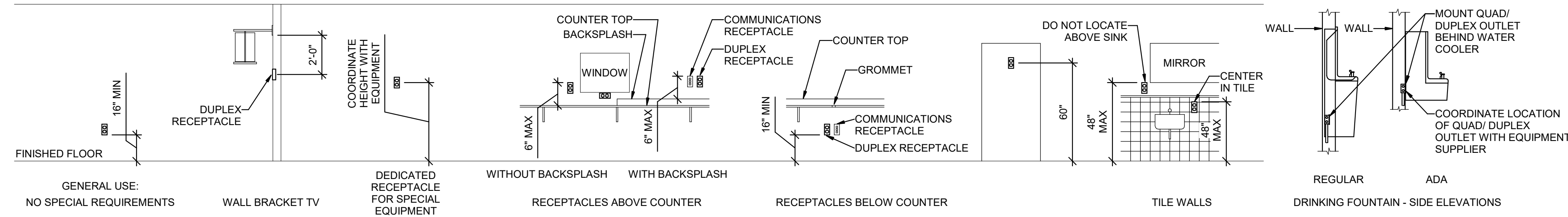


DATE REVISION

PROJECT NUMBER 23100

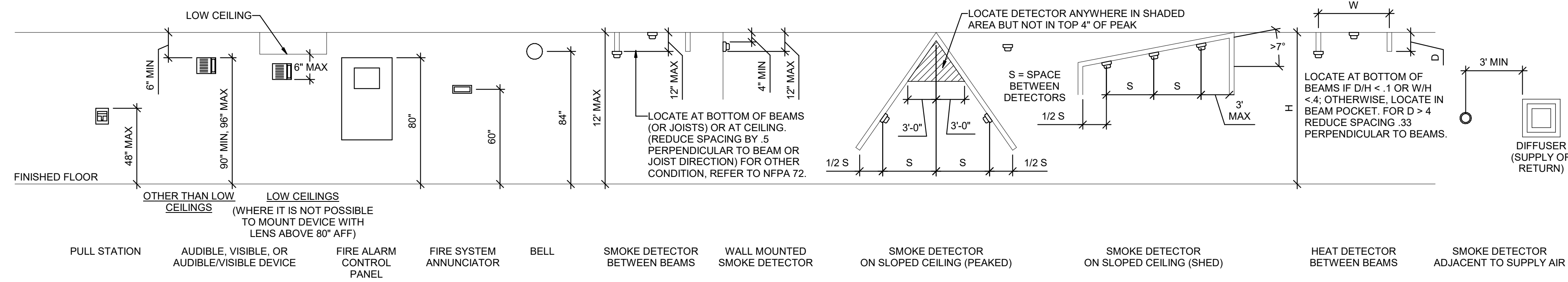
LEVEL 1 ELECTRICAL DEMOLITION PLAN

ED101

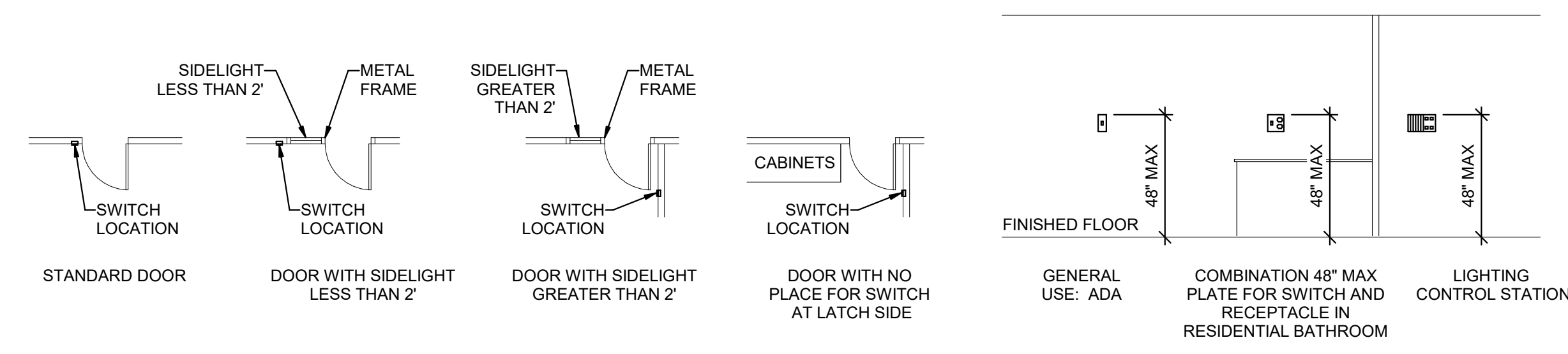


- ### GENERAL SHEET NOTES
- MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 A - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 B - EQUIPMENT SHOP DRAWINGS.
 C - FIELD INSTRUCTIONS.
 - LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
 - MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
 - MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
 - SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
 - LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
 - VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
 - LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
 - WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

D1 RECEPTACLE MOUNTING DETAILS
SCALE: 1/8" = 1'-0"

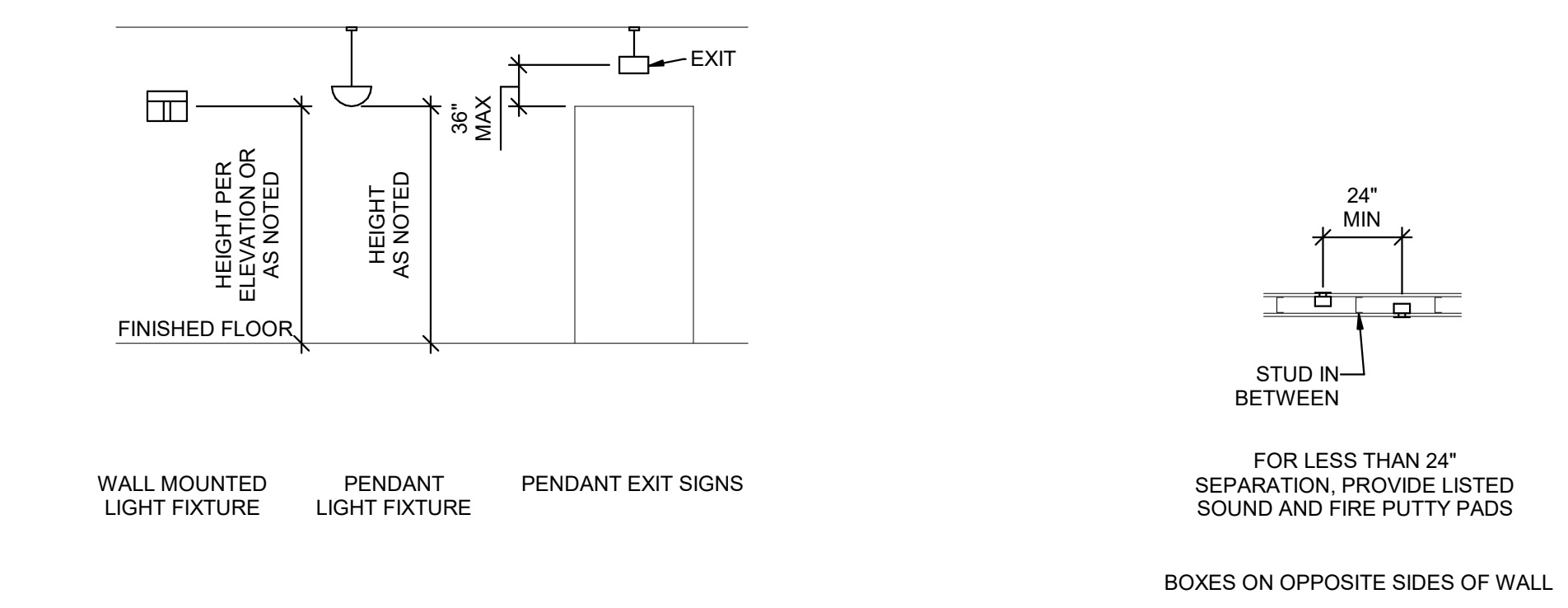
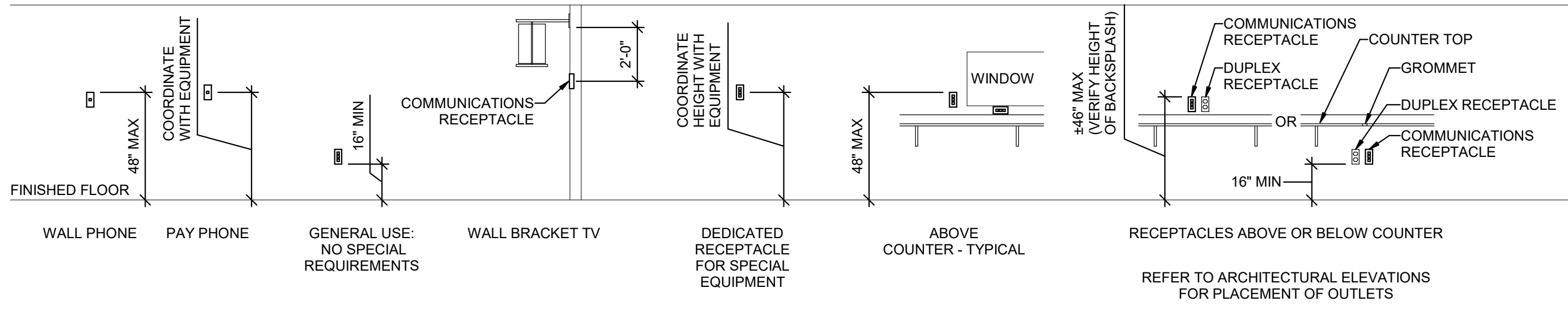


C1 FIRE ALARM MOUNTING DETAILS
SCALE: 1/8" = 1'-0"



B1 SWITCH MOUNTING DETAILS
SCALE: 1/8" = 1'-0"

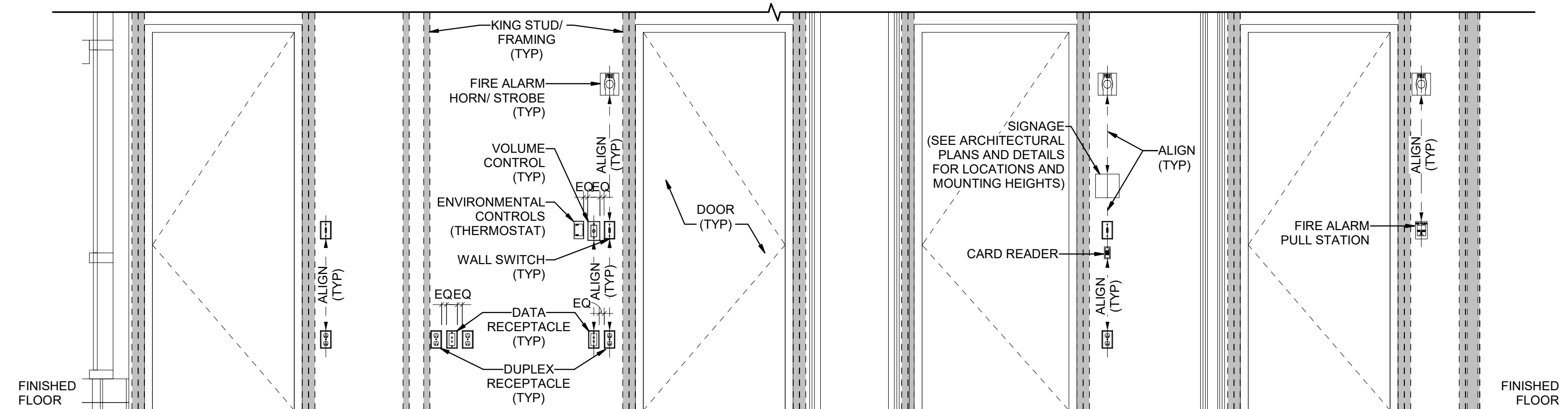
B2 COMMUNICATIONS MOUNTING DETAILS
SCALE: 1/8" = 1'-0"



A1 LIGHTING MOUNTING DETAILS
SCALE: 1/8" = 1'-0"

A2 BOX MOUNTING DETAILS
SCALE: 1/8" = 1'-0"

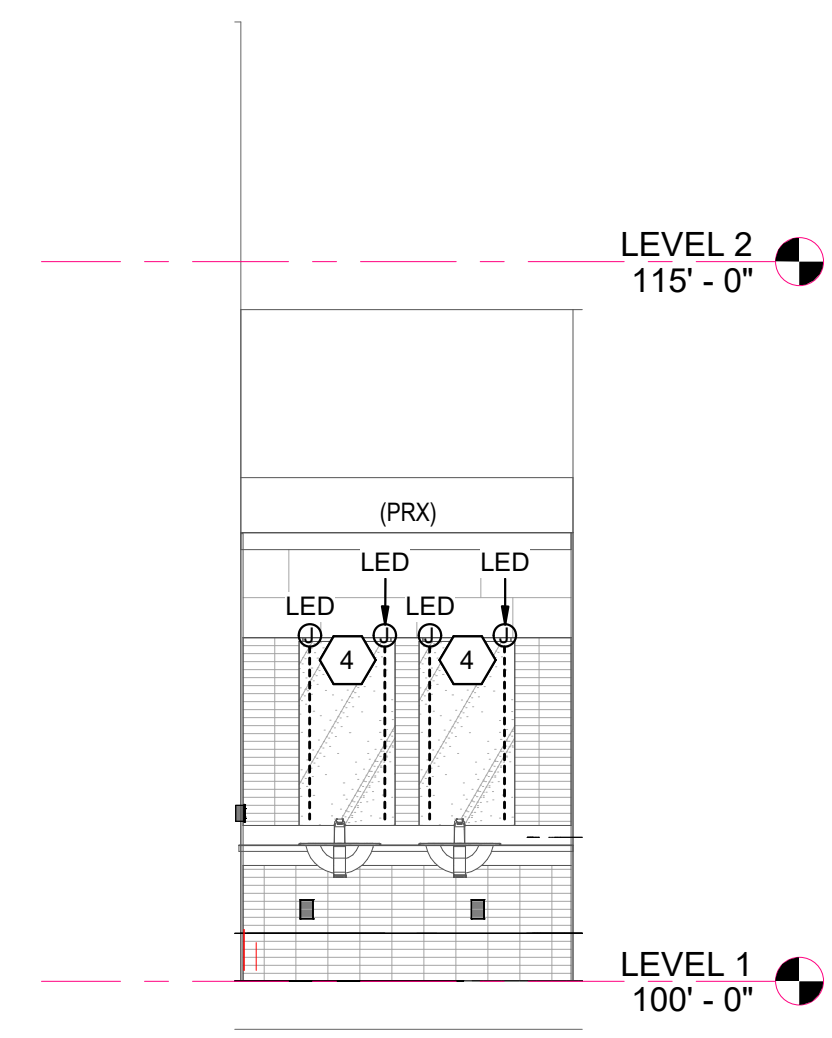
A3 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
SCALE: 1/2" = 1'-0"



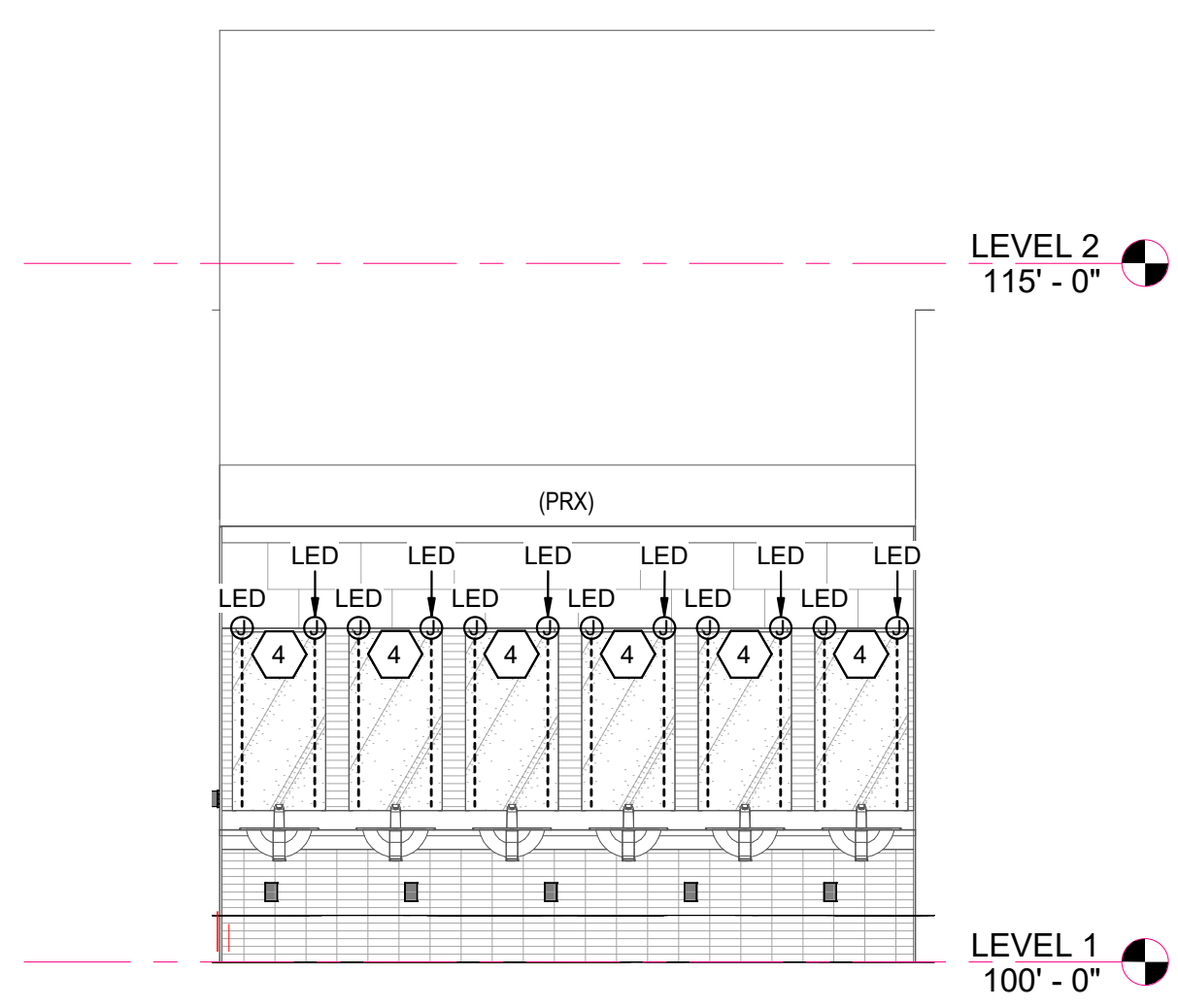
2/5/2024 5:16:01 PM

A B C D

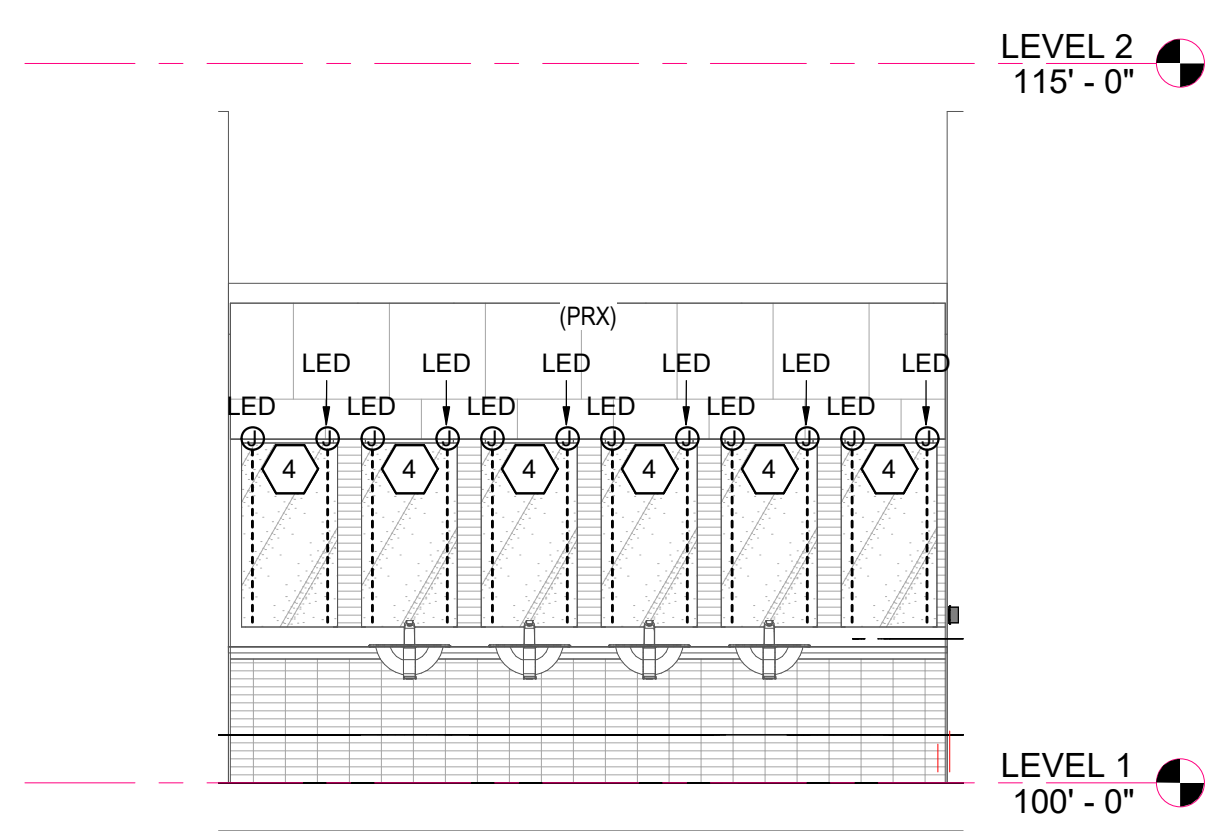
1 2 3 4 5



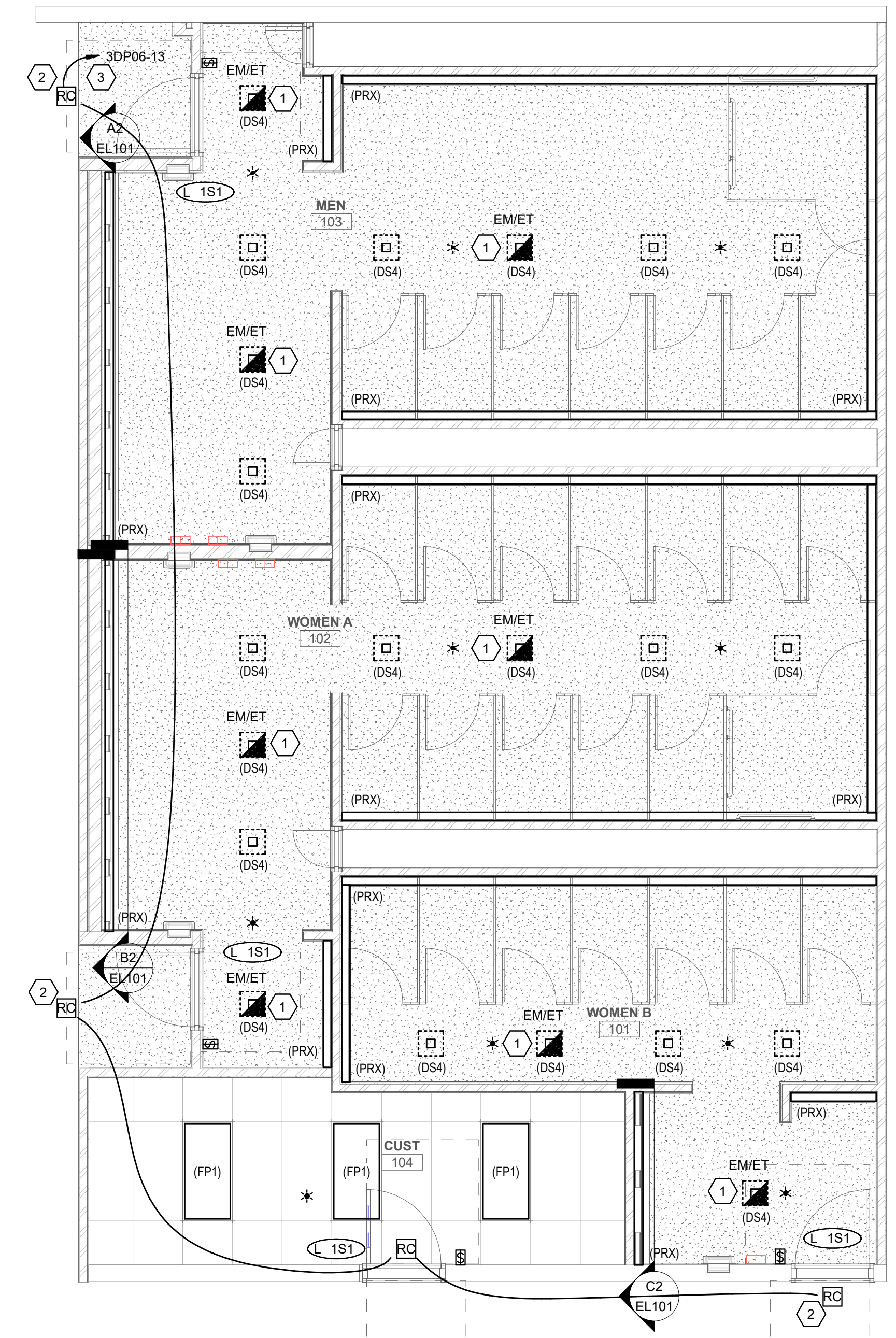
C2 LIGHTING ELEVATION - WOMEN B
SCALE: 1/4" = 1'-0"



B2 LIGHTING ELEVATION - WOMEN A
SCALE: 1/4" = 1'-0"



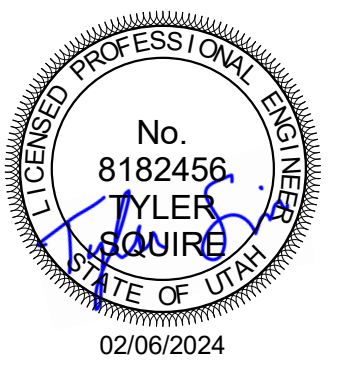
A2 LIGHTING ELEVATION - MEN 103
SCALE: 1/4" = 1'-0"



A3 LEVEL 1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

- SHEET KEYNOTES**
- CONNECT TO EXISTING EMERGENCY CIRCUIT PREVIOUSLY FEEDING EMERGENCY LIGHTING IN THIS ROOM.
 - LOCATE ROOM CONTROLLER ABOVE ACCESSIBLE CEILING IN CORRIDOR.
 - CONNECT TO NEW 277V LIGHTING CIRCUIT IN EXISTING PANEL.
 - LED TAPE LIGHT MOUNTED IN ANGLED EXTRUSION. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR MOUNTING INFORMATION.



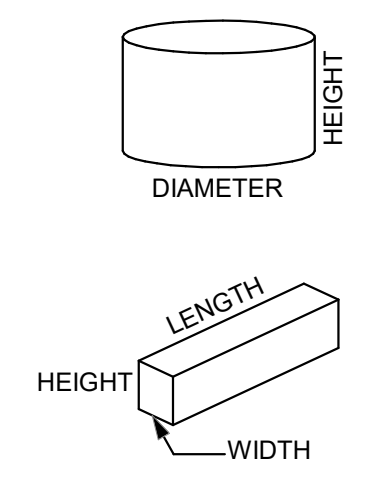
DATE	REVISION

PROJECT NUMBER 23100

2/5/2024 5:16:04 PM

INTERIOR LIGHTING FIXTURE SCHEDULE

GENERAL NOTES



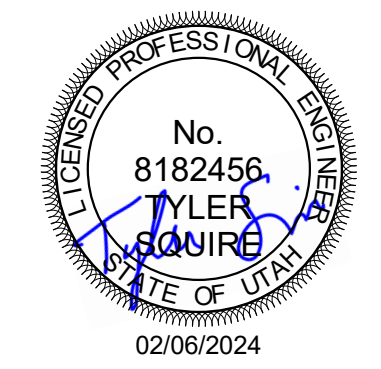
1. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
2. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
4. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
5. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
6. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.
7. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.

ID	DESCRIPTION	SIZE (NOMINAL)	LUMINAIRE		DRIVER			MANUFACTURER (CATALOG SERIES)		
			DELIVERED DIRECT LUMENS	DELIVERED INDIRECT LUMENS	COLOR TEMP	CRI	TYPE		VOLTAGE	WATTS
(DS4)	DESCRIPTION: 4"x4" SQUARE DOWNLIGHT MOUNTING: RECESSED, CEILING FINISH: SCBA OPTICS: MEDIUM WIDE BEAM, CLEAR REFLECTOR, MATTE DIFFUSE OPTIONS: EM: NONE	LENGTH: 12" WIDTH: 12" HEIGHT: 7"	2,000		3500K	80	LED (0-10V DIMMING) 1%	120/277V	19	GOTHAM (EVO4SQ) PORTFOLIO (LDSQA4B) LIGHTOLIER (4SNC4L)
(FP1)	DESCRIPTION: LED FLAT PANEL MOUNTING: CEILING, RECESSED FINISH: SCBA OPTICS: OPTIONS: EM: NONE	LENGTH: 4" WIDTH: 2" DEPTH: 1.5"	5,000		3500K	80	LED (0-10V DIMMING) 1%	120/277V	44	LITHONIA (CPX)
(PRX)	DESCRIPTION: PERIMETER RECESSED SLOT FIXTURE WITH TELESCOPING RUNS AND FULLY ILLUMINATED CORNERS. PROVIDE CONTINUOUS CORNERS. LUMENS AND WATTS PROVIDED PER 4' SECTION. MOUNTING: RECESSED FINISH: SCBA OPTICS: LOW GLOSS REFLECTOR, FLUSH LENS OPTIONS: EM: NONE	LENGTH: 48" WIDTH: 4" HEIGHT: 4"	2,400		3500K	80	LED (0-10V DIMMING) 1%	120/277V	28	FINELITE (HP-WS-4W-4D)
LED	DESCRIPTION: LED TAPELIGHT MOUNTED IN ANGLED EXTRUSION. 300 LUMENS/FOOT MINIMUM. MOUNTING: ANGLED EXTRUSION WITH FROSTED LENS. FINISH: OPTICS: OPTIONS: EM: NONE	LENGTH: PER PLANS WIDTH: 1" DEPTH: 1"	300		3500K	80	LED (0-10V DIMMING) 1%	120/277V	3	OMNI LIGHT (TRU-35-HO-OCH-45-X-FR-WH)

LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND	APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES	GENERAL NOTES
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING - · - · - CAT5E CABLING _____ WIRING BY OTHERS ○-○-○ TMP SEGMENT NETWORK CABLING	1. WATTSTOPPER (BASIS OF DESIGN) 2. NLIGHT 3. HUBBELL BUILDING AUTOMATION 4. GREENGATE	1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE	1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.	5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.

ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
1S1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON PRESS-OFF LABEL ID: "ON/OFF"	-	-	-	-	-	-	-	-	-



△ DATE REVISION

PROJECT NUMBER 23100

INTERIOR LIGHTING FIXTURE SCHEDULE

EL601

EQUIPMENT SCHEDULE																													
EQUIPMENT SCHEDULE KEY										NOTES:										GENERAL NOTES:									
E - DIVISION 26 Q - FURNISHED WITH EQUIPMENT * - COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER ** - AUTOMATIC CONTROL WIRING BY DIVISION 23										1. NEMA 3R 2. TOGGLE SWITCH W/ THERMAL OVERLOAD. 3. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP. 4. CONTRACTOR TO PERFORM FINAL CONNECTION TO LINE VOLTAGE THERMOSTATS. 5. TOGGLE SWITCH W/BACNET INTERFACE. 6. INDOOR UNITS FED FROM OUTDOOR UNIT. PROVIDE DISCONNECTS FOR BOTH.										7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY. 8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR." 9. LINE VOLTAGE THERMOSTAT ON WALL. 10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS. 11. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANDLER. 12. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL.					1. WHERE DISCONNECTS, STARTERS, OR VFCs ARE BEING PROVIDED BY ELECTRICAL CONTRACTOR, LOCATE EQUIPMENT IN ACCESSIBLE LOCATION, SUCH THAT IT IS WITHIN SITE OF THE MECHANICAL EQUIPMENT IT IS SERVING, AND COMPLIES WITH N.E.C. REQUIRED CLEARANCES.				
MARK	QTY	ITEM DESCRIPTION	LOAD DATA						WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER					NOTES	MARK							
			HP	KW	MCA	FLA	VOLT	PH		Hz	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES	SELECTOR SWITCH			PILOT LAMP	NORMALLY OPEN CONTACT	NORMALLY CLOSED CONTACT	PHASE FAILURE RELAY			
DBF-1	1	DRYER BOOSTER FAN	-	-	-	1	120	1	60	2 #12, #12 GR 0.75" CND	E	20/1 CB		E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	-	-	DBF-1		
EF-1	1	EXHAUST FAN	1.5	-	-	11	208	1	60	2 #10, #10 GR 0.75" CND	E	30/2 CB		E	30A/2P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	-	EF-1			

GENERAL SHEET NOTES

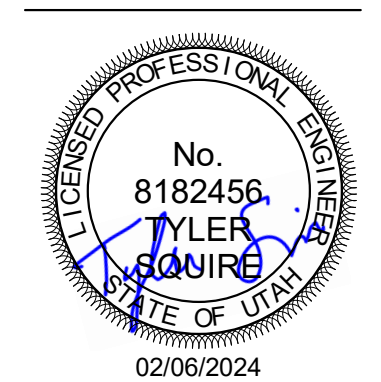
- LOCATIONS OF ALL MECHANICAL EQUIPMENT IS BASED ON INFORMATION PROVIDED BY OTHERS. COORDINATE THE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL EQUIPMENT INSTALLERS PRIOR TO ROUGH-IN.
- LOCATE ALL DISCONNECT SWITCHES ADJACENT TO EQUIPMENT IN ACCESSIBLE LOCATION.

SHEET KEYNOTES

- PROVIDE ELECTRICAL CONNECTIONS TO HARD-WIRED FAUCETS AND SOAP DISPENSERS. CONFIRM EXACT LOCATION WITH INSTALLERS PRIOR TO ROUGH-IN.
- PROVIDE ELECTRICAL CONNECTIONS TO HARD-WIRE FLUSH VALVES. COORDINATION EXACT LOCATION WITH INSTALLERS PRIOR TO ROUGH-IN.
- PROVIDE ELECTRICAL CONNECTIONS TO ELECTRIC HAND-DRYERS. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL PLANS AND DETAILS. CONNECT TO EXISTING CIRCUIT PREVIOUSLY FEEDING HAND DRYERS WITHIN THIS RESTROOM. EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED.
- CONNECT NEW RECEPTACLES IN THIS RESTROOM TO THE EXISTING RECEPTACLE CIRCUIT FEEDING RECEPTACLES THAT ARE BEING REMOVED.
- CONNECT TO EXISTING 120V STANDBY ELECTRICAL CIRCUIT.
- CONNECT TO EXISTING WASHER/DRYER ELECTRICAL CIRCUIT. EXTEND CIRCUIT TO LOCATIONS OF NEW DEVICES.
- CONNECT TO EXISTING DRYER BOOSTER FAN ELECTRICAL CIRCUIT. EXTEND CIRCUIT TO LOCATION OF NEW BOOSTER FAN.
- PROVIDE ELECTRICAL CONNECTIONS TO CONTROL DAMPER. COORDINATE EXACT LOCATION WITH HVAC INSTALLERS PRIOR TO ROUGH-IN.
- PROVIDE 208V/1-PHASE ELECTRICAL CONNECTIONS TO NEW EXHAUST FAN ON ROOF. COORDINATE EXACT LOCATION WITH HVAC INSTALLERS PRIOR TO ROUGH-IN.
- REFER TO NEW PLANS FOR REMODEL AREA SCOPE.
- ALL EQUIPMENT, PANELS & TRANSFORMERS IN THIS ROOM ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- EXISTING 120/208V ELECTRICAL PANEL WITH AROUND 10 AVAILABLE SPARE CIRCUIT BREAKERS
- REMOVE AND REPLACE EXISTING TWO-CIRCUIT EMERGENCY PANEL WITH NEW 50A, 8-CIRCUIT PANEL FOR EMERGENCY CIRCUITS WITH 30A MAIN BREAKER. DISCONNECT EXISTING EM CIRCUITS AND RE-TERMINATE ON NEW CIRCUIT BREAKERS. CONNECT FLUSH AND SINK VALVE CIRCUITS TO NEW PANEL AS INDICATED. METER EXISTING PANEL LOADS FOR 7 DAYS TO CONFIRM CAPACITY PRIOR TO FINALIZING ELECTRICAL SUBMITTALS.

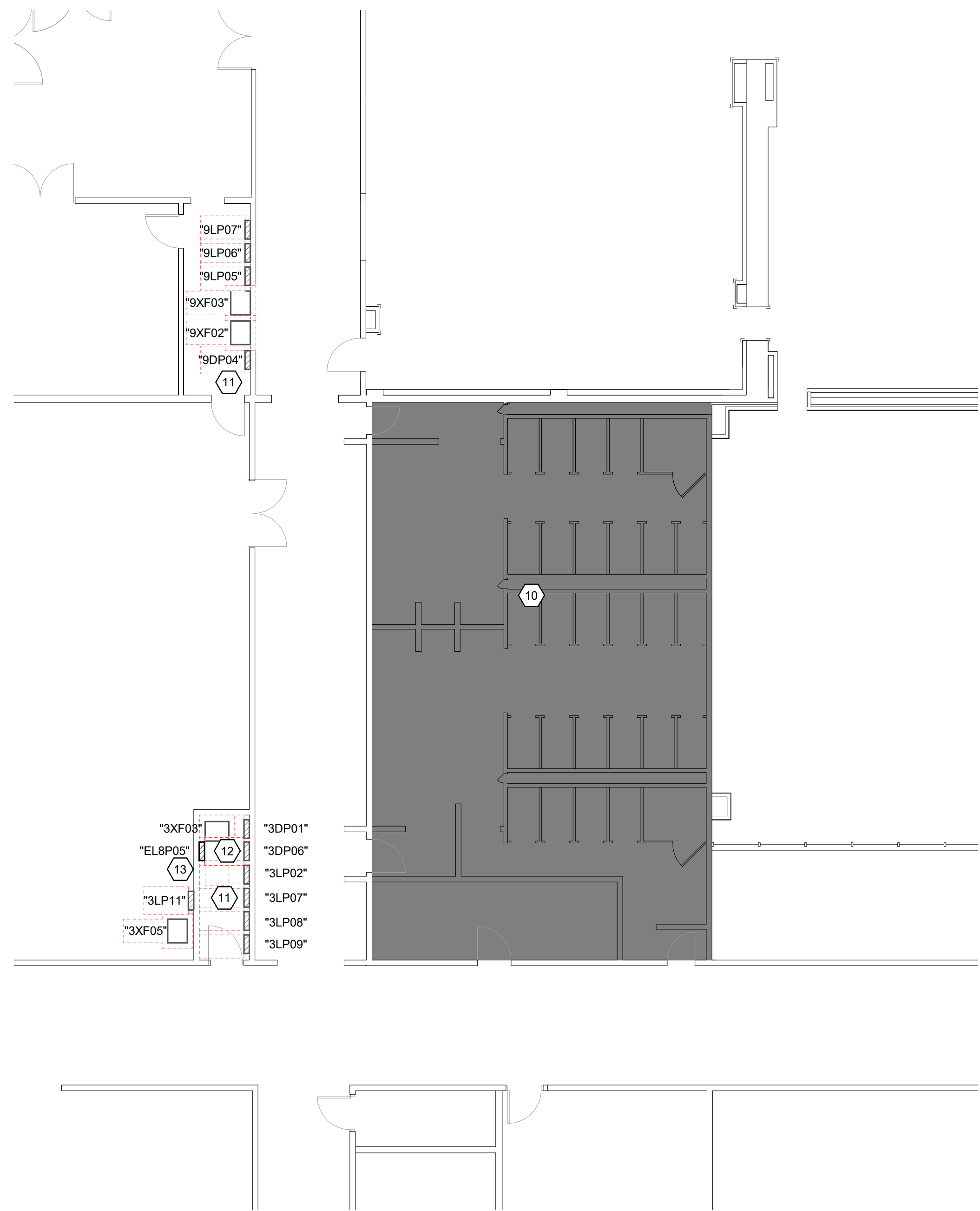
FFKR ARCHITECTS
730 Pacific Avenue · Salt Lake City, Utah 84104
801.521.6186 · FFKR.COM

BD Restroom Renovation
9450 State St, Sandy, UT
BD Medical
Construction Documents - February 06, 2024

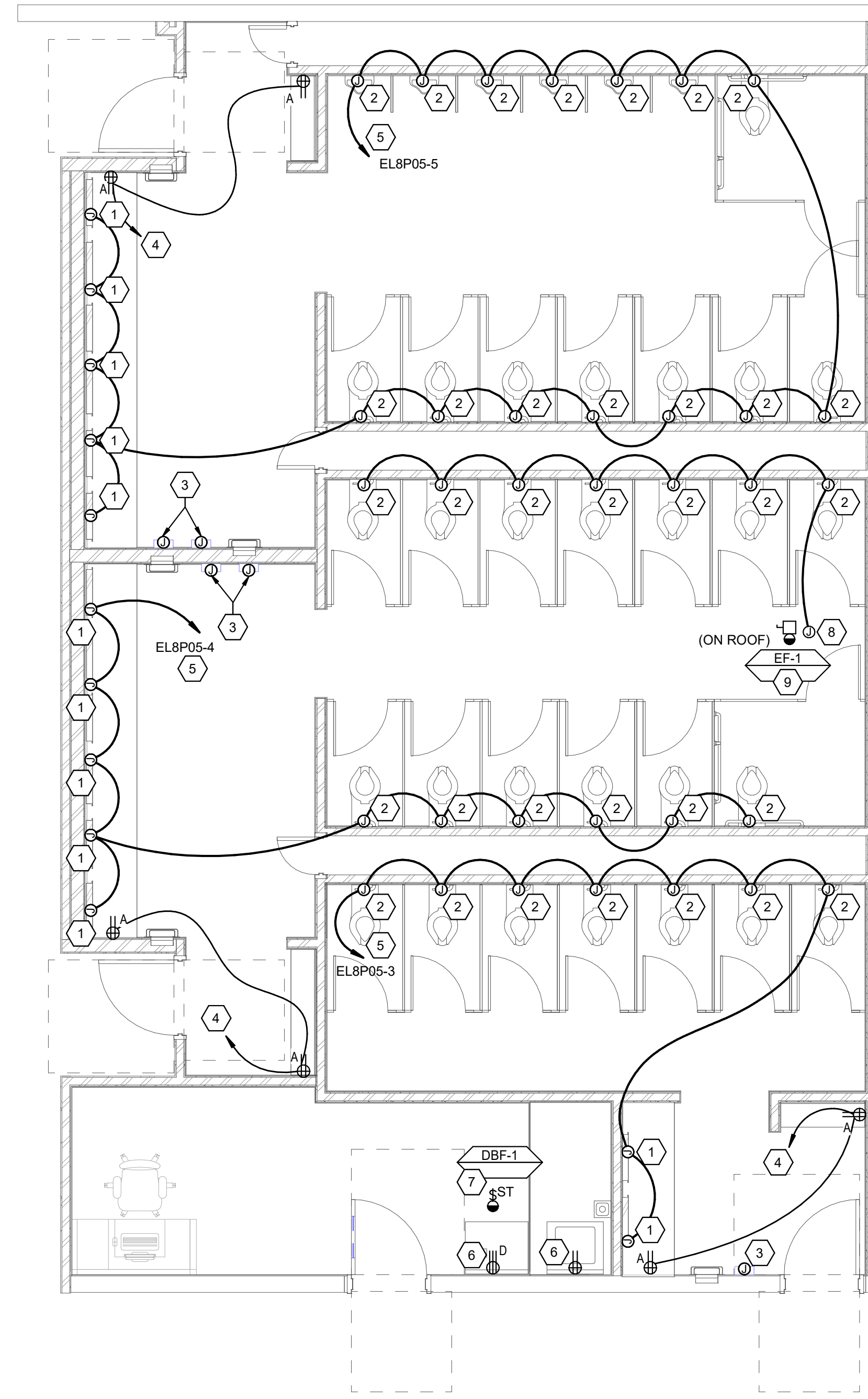


PROJECT NUMBER 23100

LEVEL 1 POWER PLAN
EP101



A1 LEVEL 1 - AREA POWER PLAN
SCALE: 1/8" = 1'-0"



A3 LEVEL 1 POWER PLAN
SCALE: 1/4" = 1'-0"

2/5/2024 5:15:57 PM

2/5/2024 5:16:05 PM

0' 1" 2'

D

C

B

A

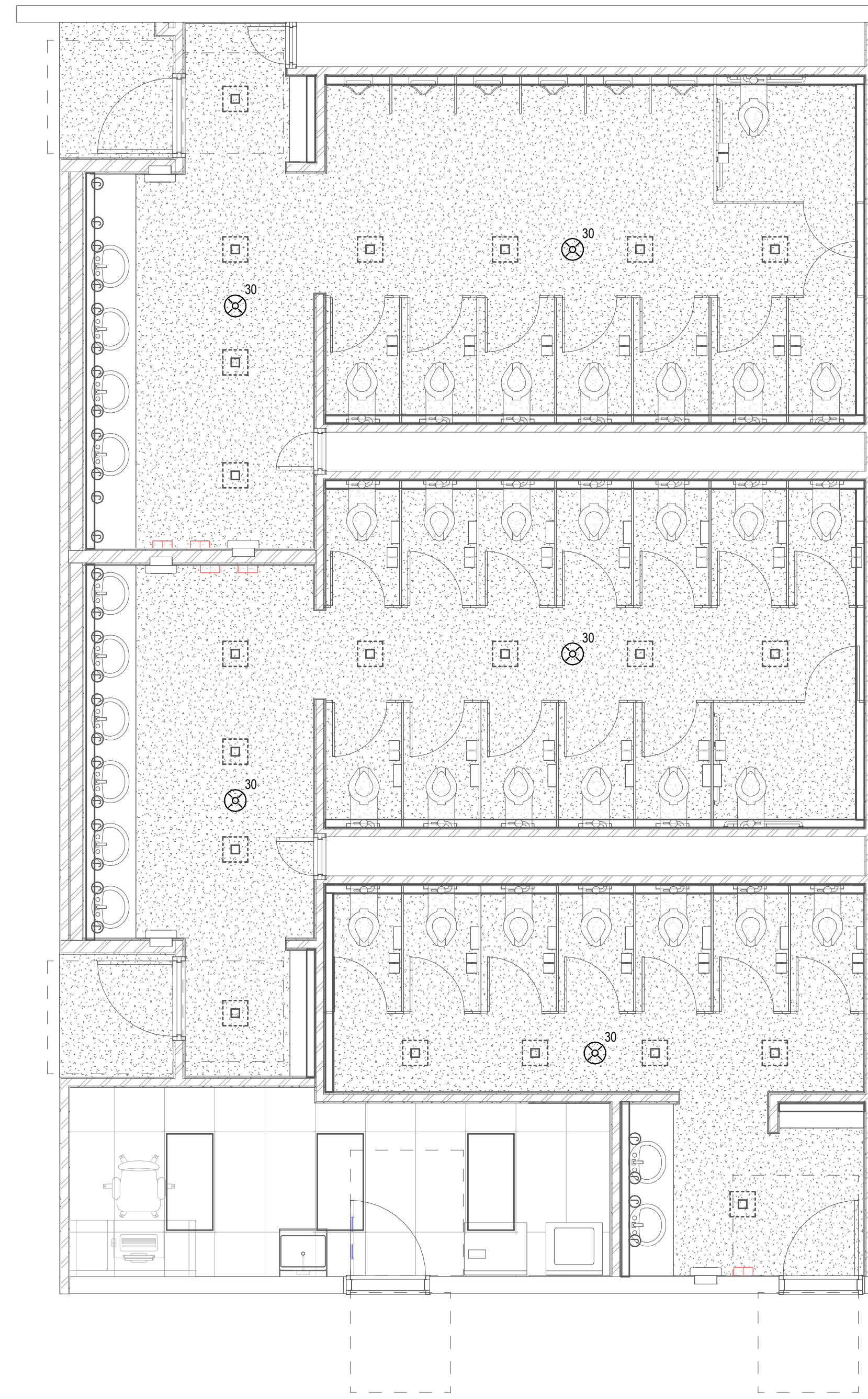
1

2

3

4

5



A3 LEVEL 1 AUXILIARY PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

1 CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM.

○ SHEET KEYNOTES

FFKR ARCHITECTS
730 Pacific Avenue · Salt Lake City, Utah 84104
O 801.521.6186 · FFKR.COM

BD Restroom Renovation
9450 State St, Sandy, UT
BD Medical
Construction Documents - February 06, 2024



△ DATE REVISION

PROJECT NUMBER 23100

**LEVEL 1
AUXILIARY
PLAN**

EY101