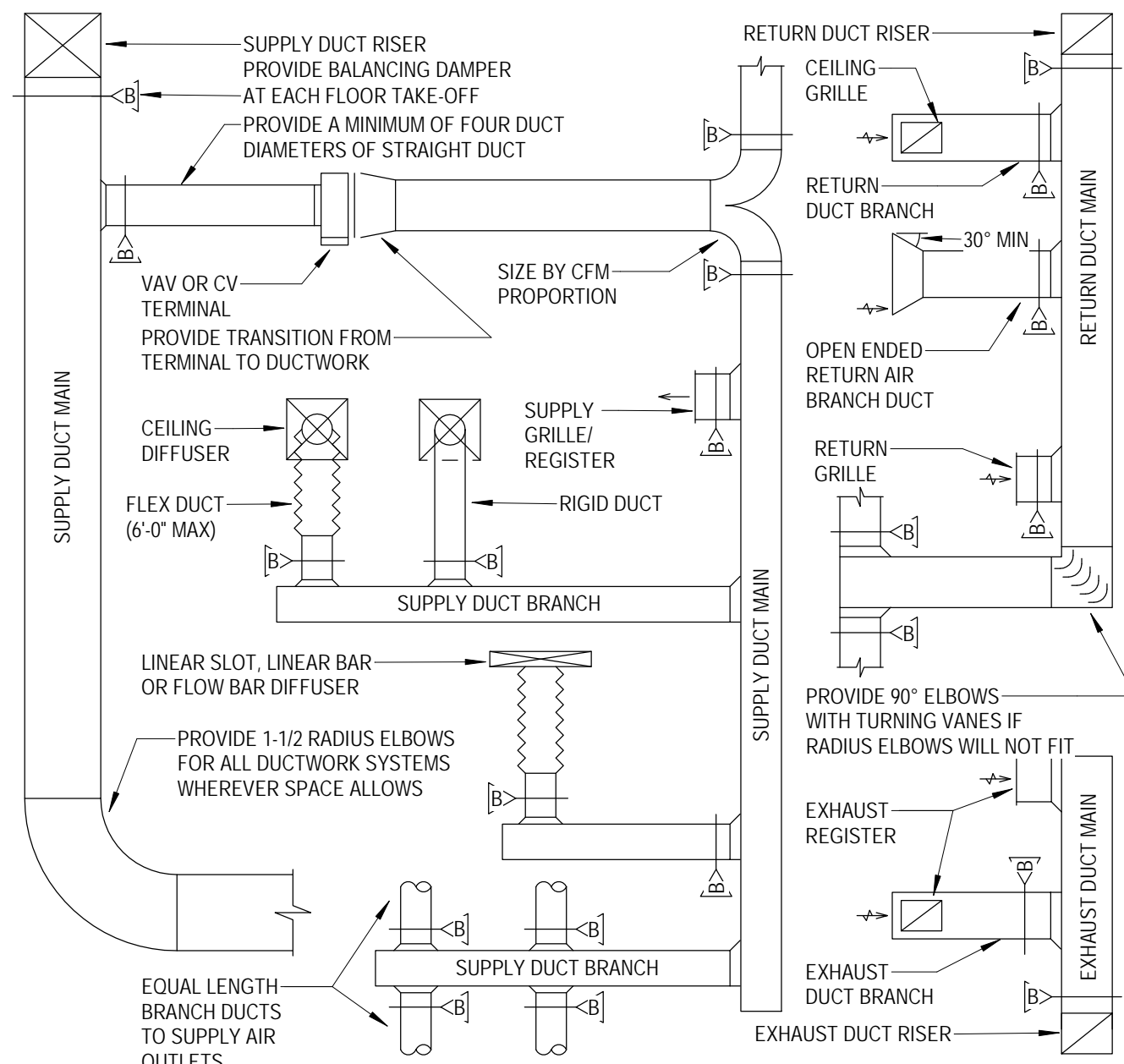
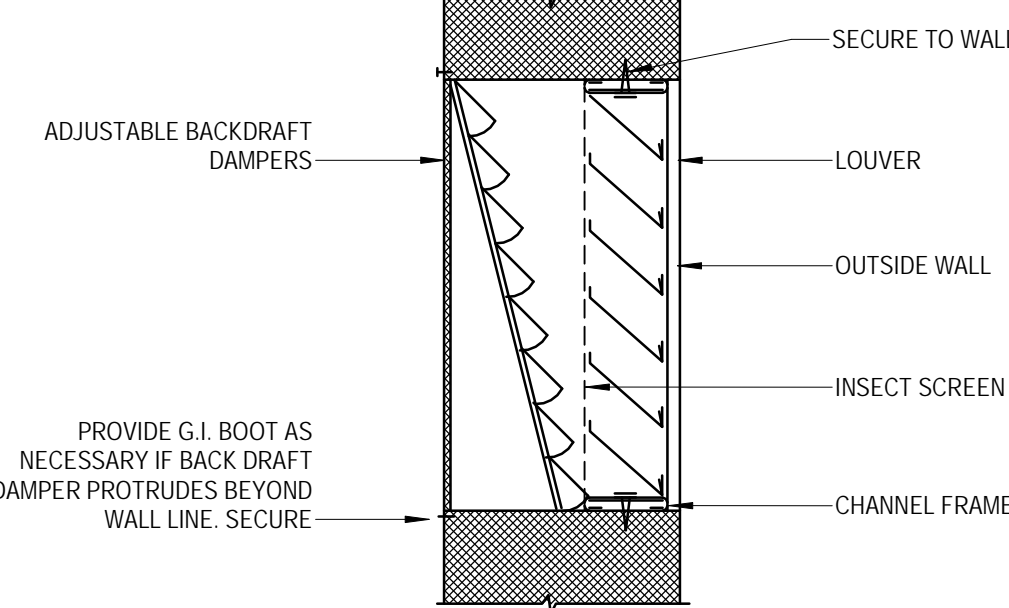


- NOTES:
- REFER TO HVAC FLOOR PLANS FOR DUCT SIZES
 - REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES
 - PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN INLET
 - ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED
 - FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS
 - PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT
 - INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS



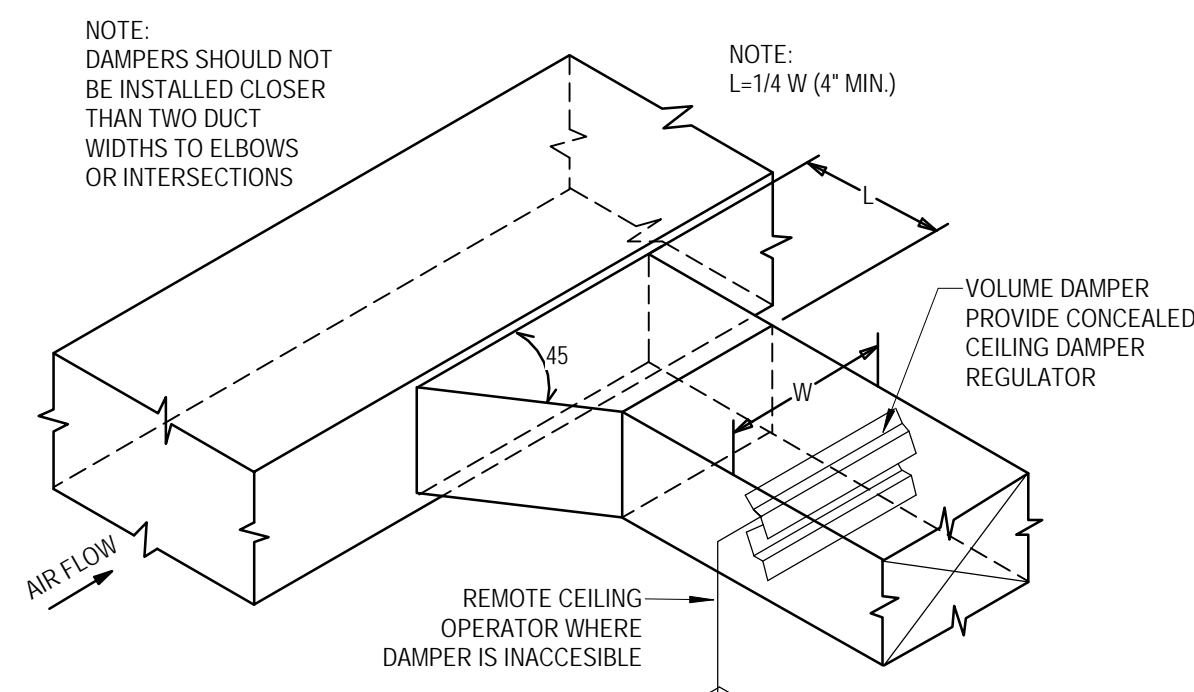
DUCTWORK INSTALLATION DIAGRAM
SCALE: NO SCALE

12



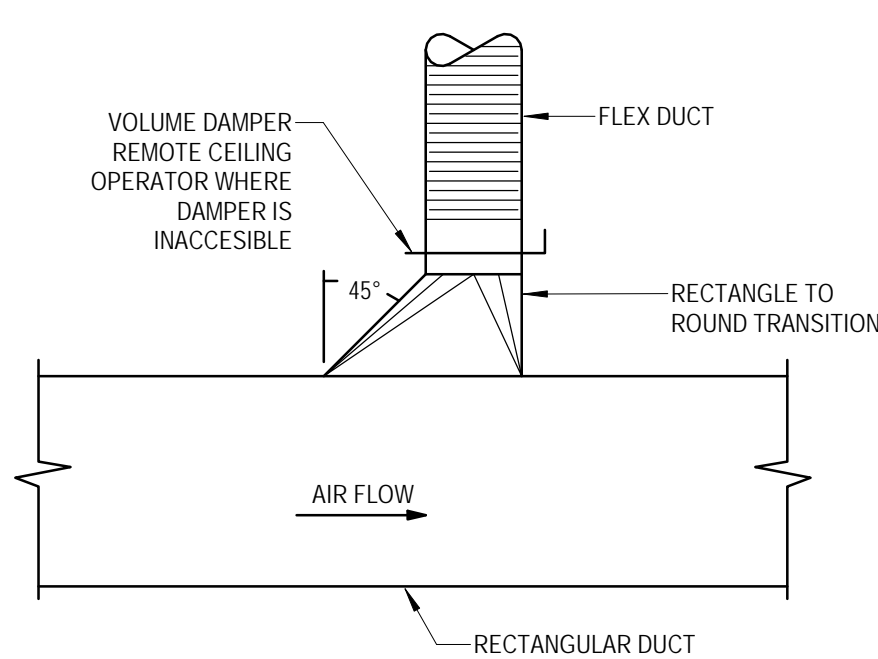
AIR LOUVER DETAIL
SCALE: 12" = 1'-0"

13



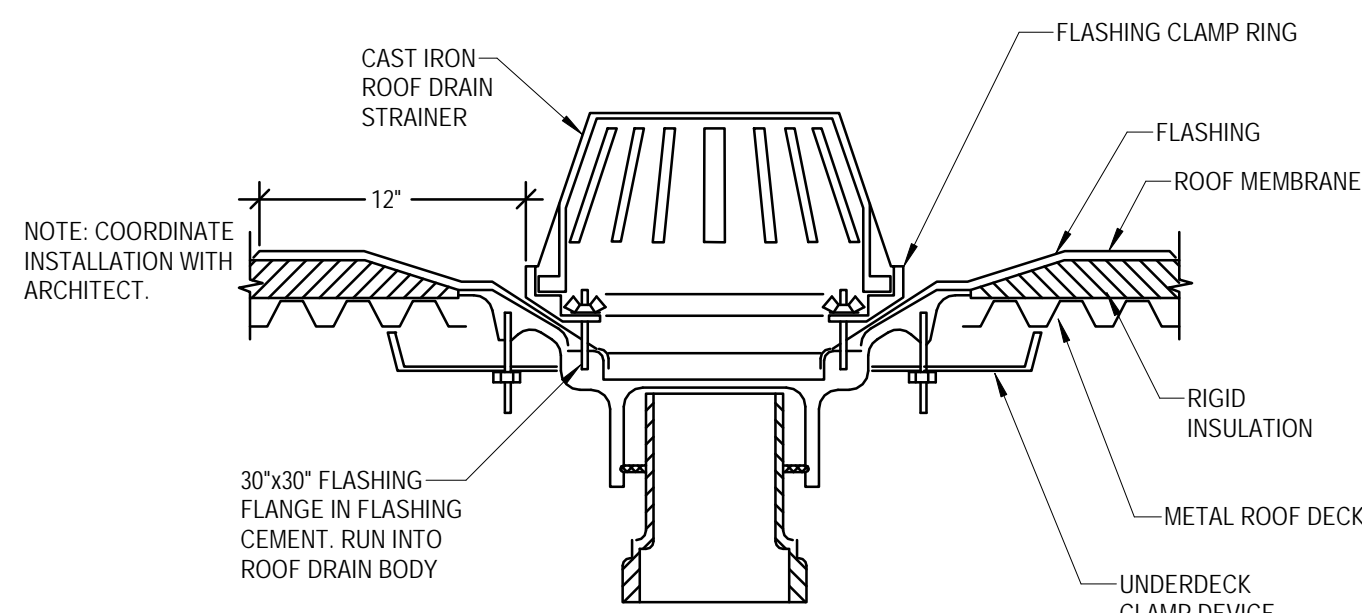
BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE: 12" = 1'-0"

14



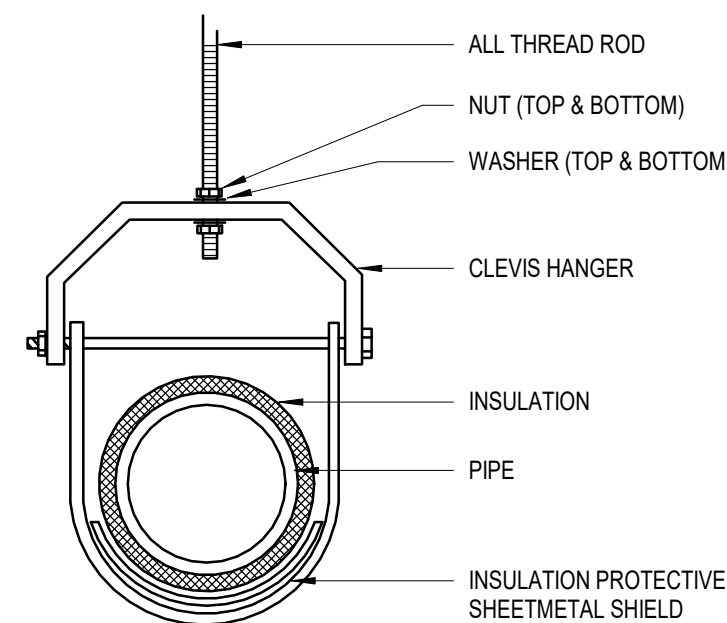
FLEX DUCT WITH HIGH EFFICIENCY FITTING DETAIL
SCALE: 12" = 1'-0"

15



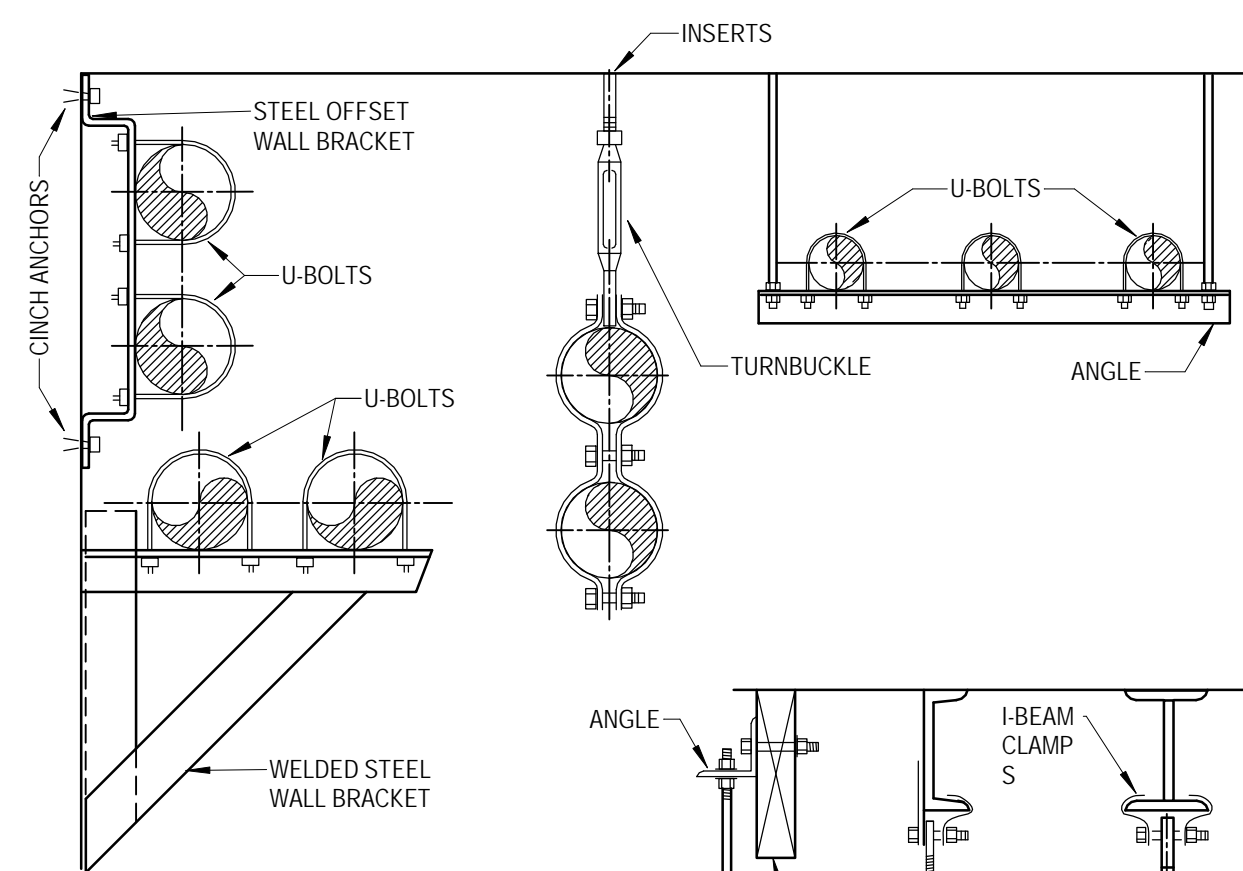
ROOF DRAIN DETAIL
SCALE: 12" = 1'-0"

8



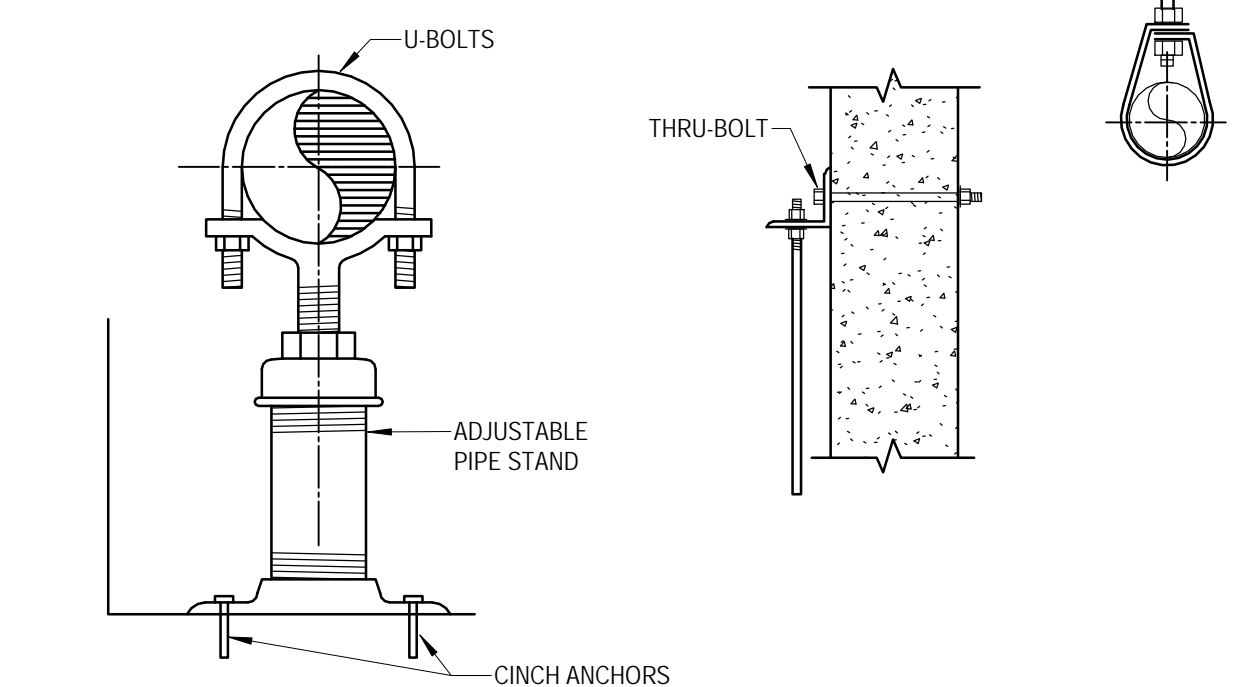
TYPICAL CLEVIS HANGER DETAIL
SCALE: 12" = 1'-0"

9



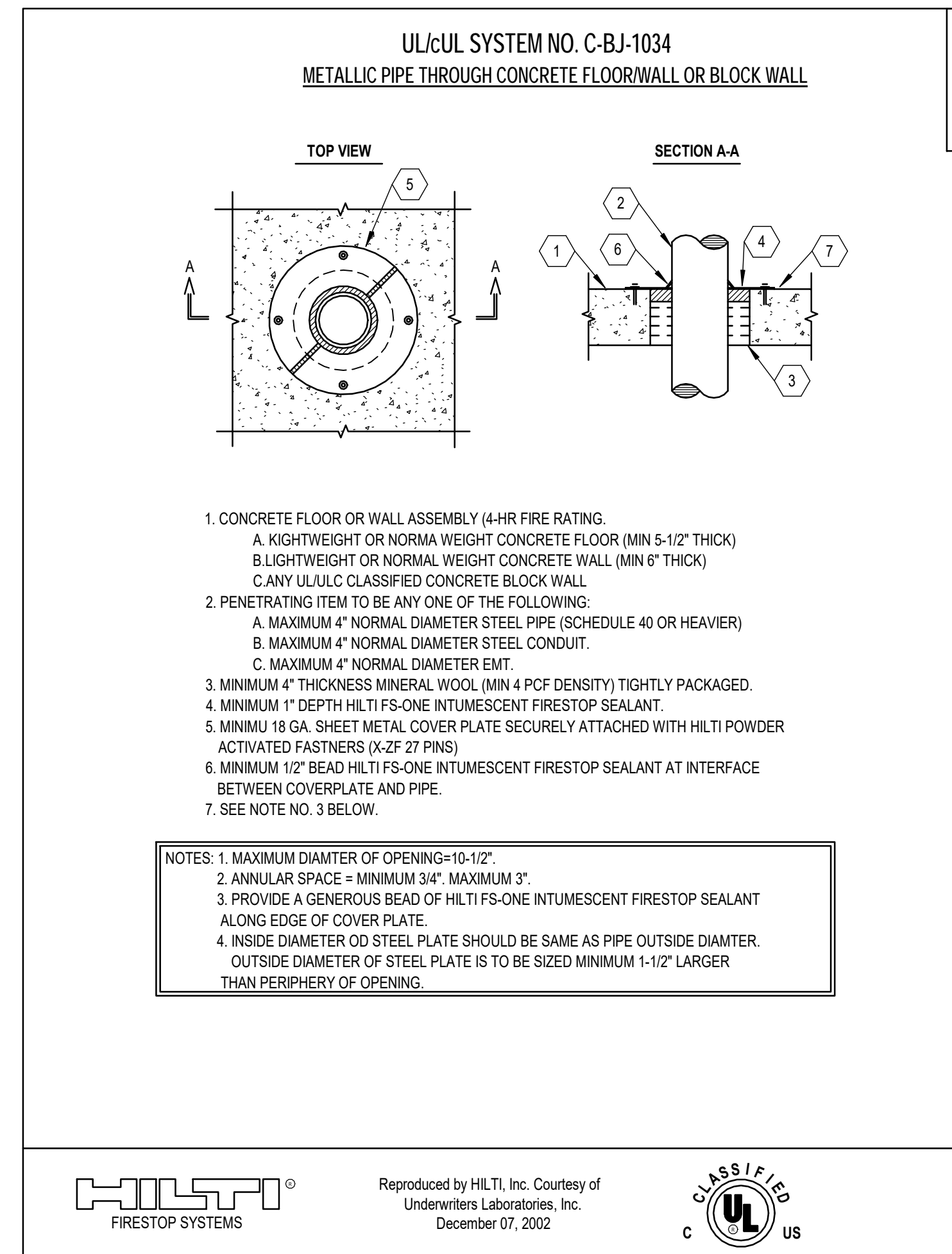
TYPICAL PIPE SUPPORT DETAIL
SCALE: 12" = 1'-0"

10



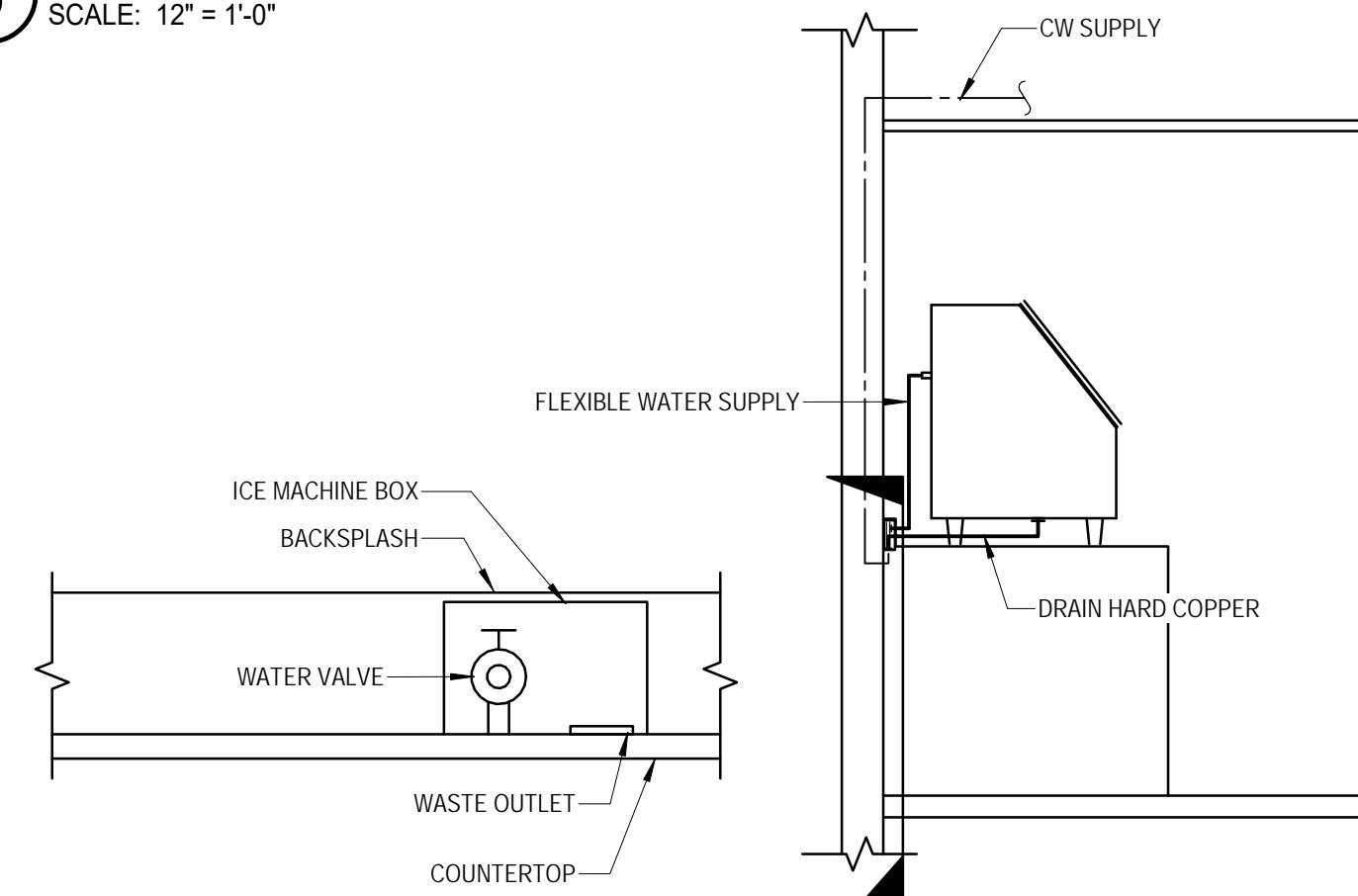
DIFFUSER FLEXIBLE DUCT CONNECTION
SCALE: NOT TO SCALE

11



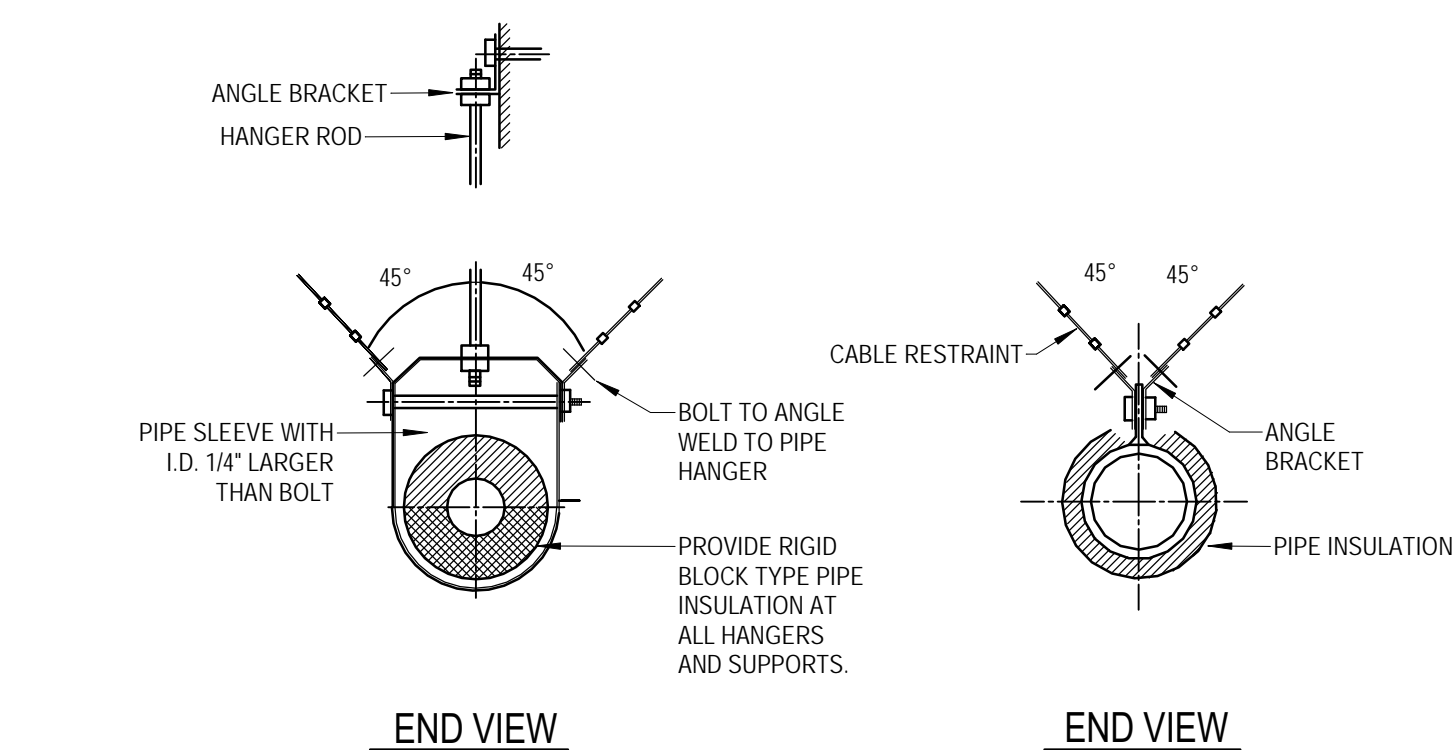
HILTI-C-BJ-1034
SCALE: 12" = 1'-0"

5



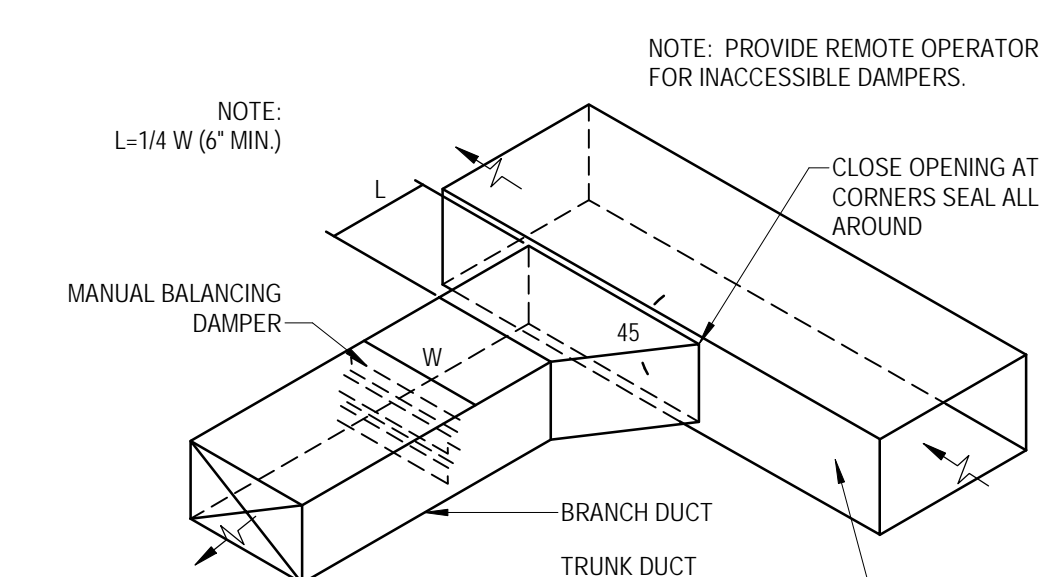
ICE MACHINE DETAIL
SCALE: 12" = 1'-0"

6



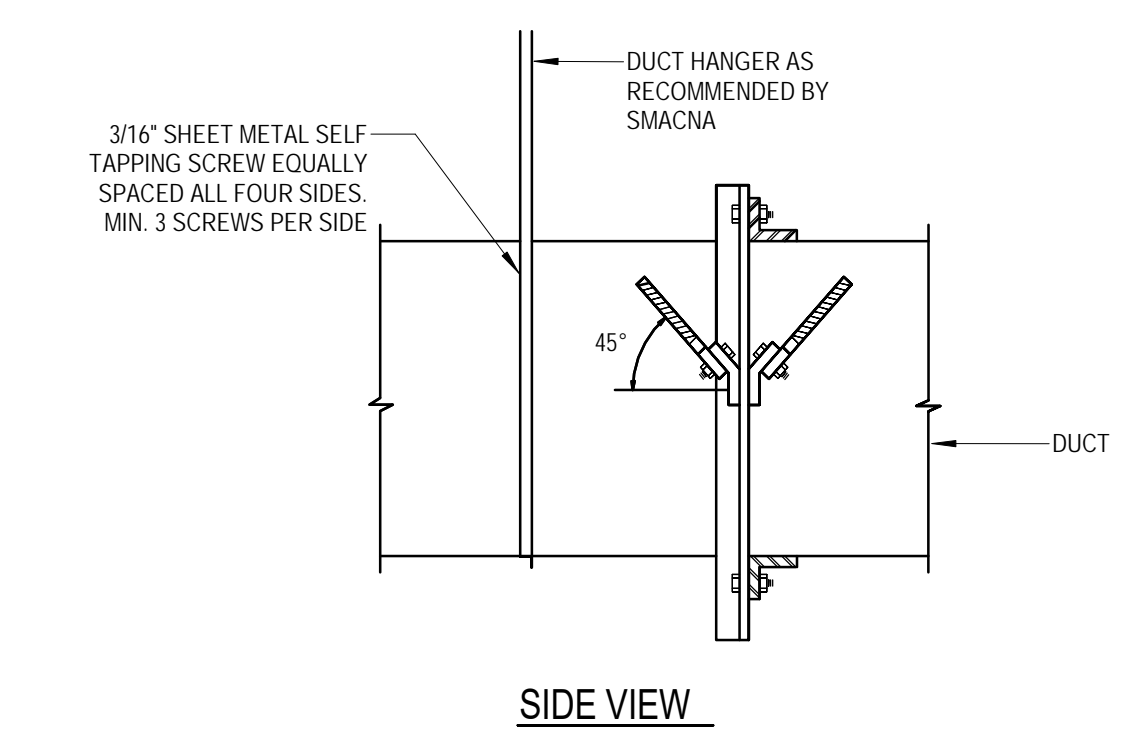
PIPING RESTRAINT DETAIL
SCALE: 12" = 1'-0"

7



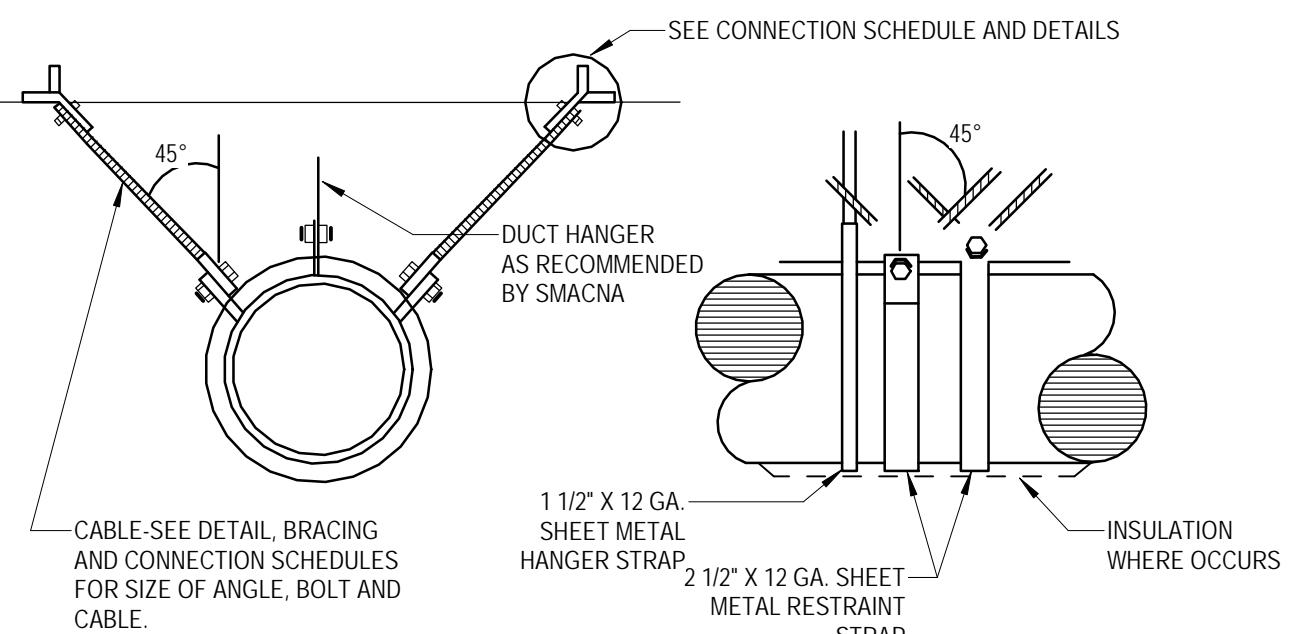
BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE: 12" = 1'-0"

1



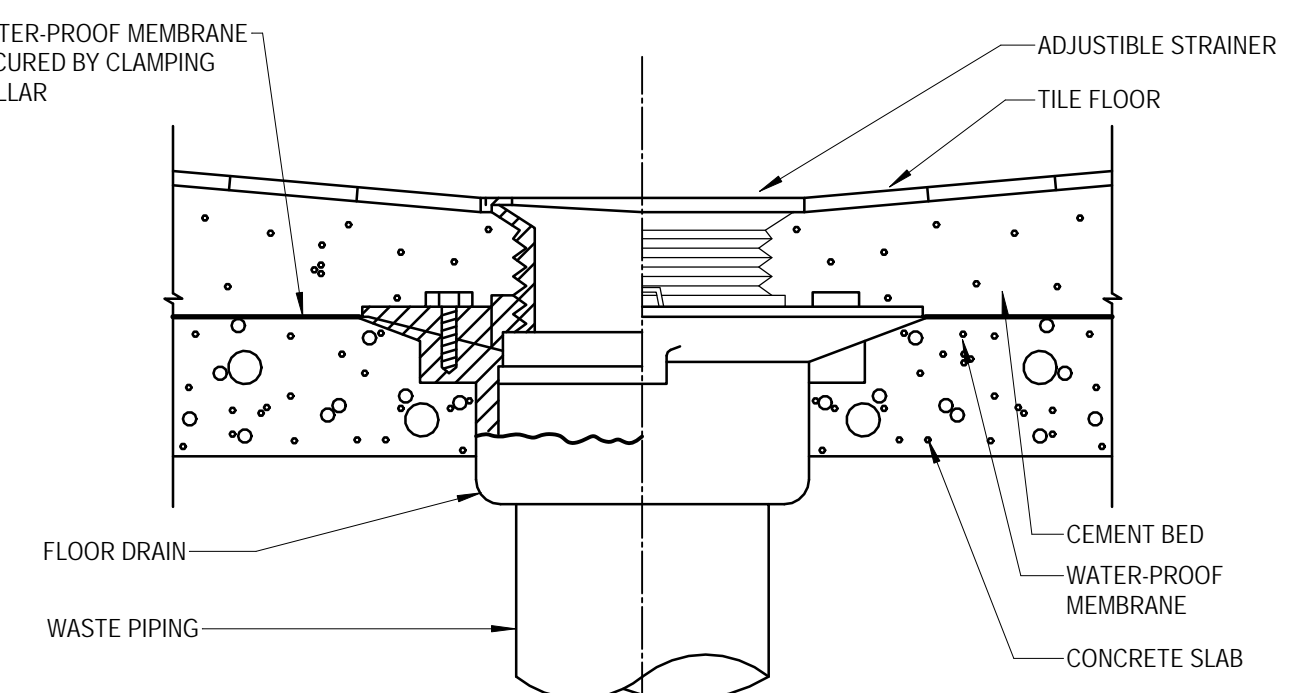
CABLE BRACING FOR RECTANGULAR DUCTS
SCALE: 12" = 1'-0"

2



CABLE BRACING FOR ROUND AND OVAL DUCTS
SCALE: 12" = 1'-0"

3

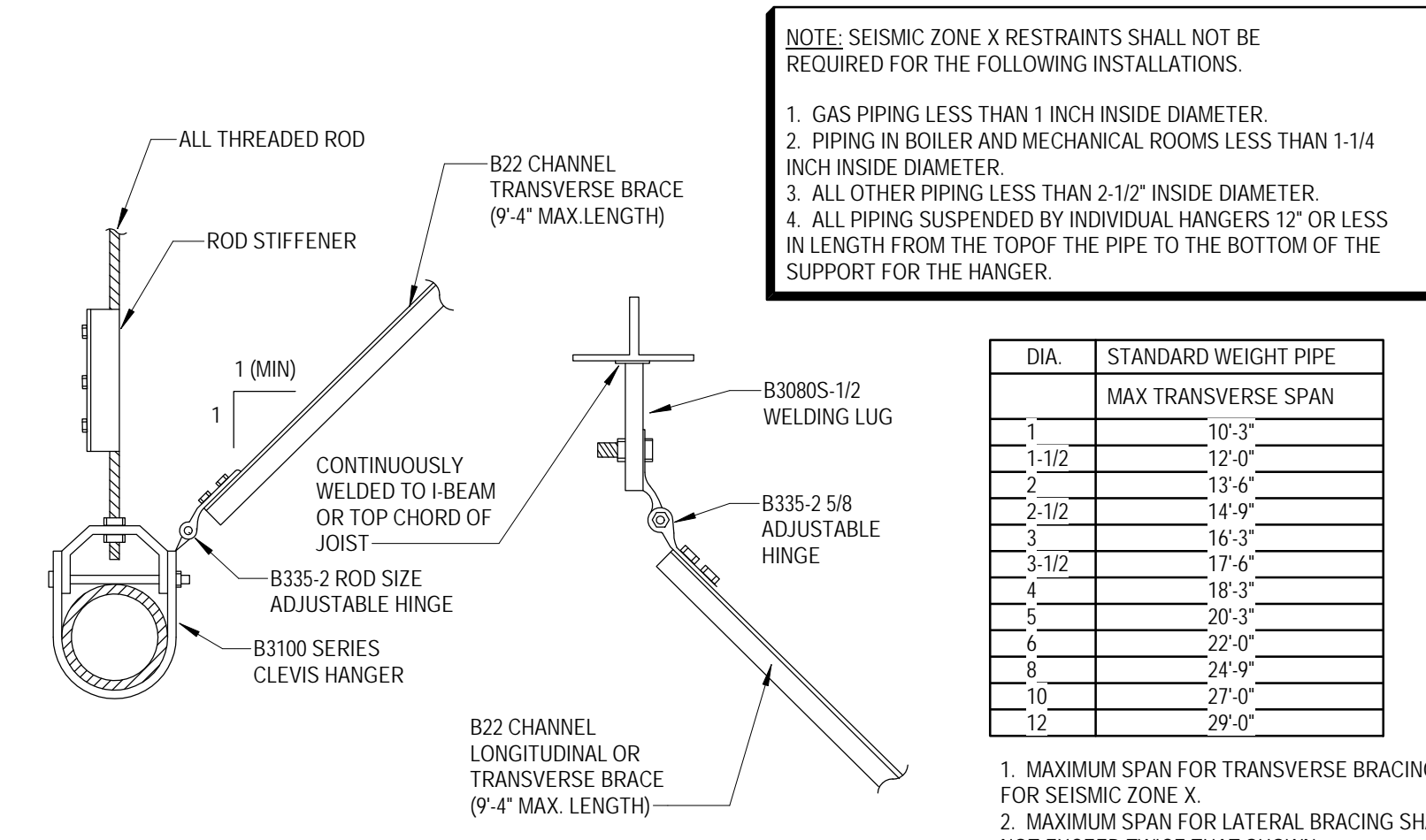


FLOOR / SHOWER DRAIN DETAIL
SCALE: 12" = 1'-0"

4

REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
CLIENT NUMBER:
DATE: 15 DECEMBER 2020



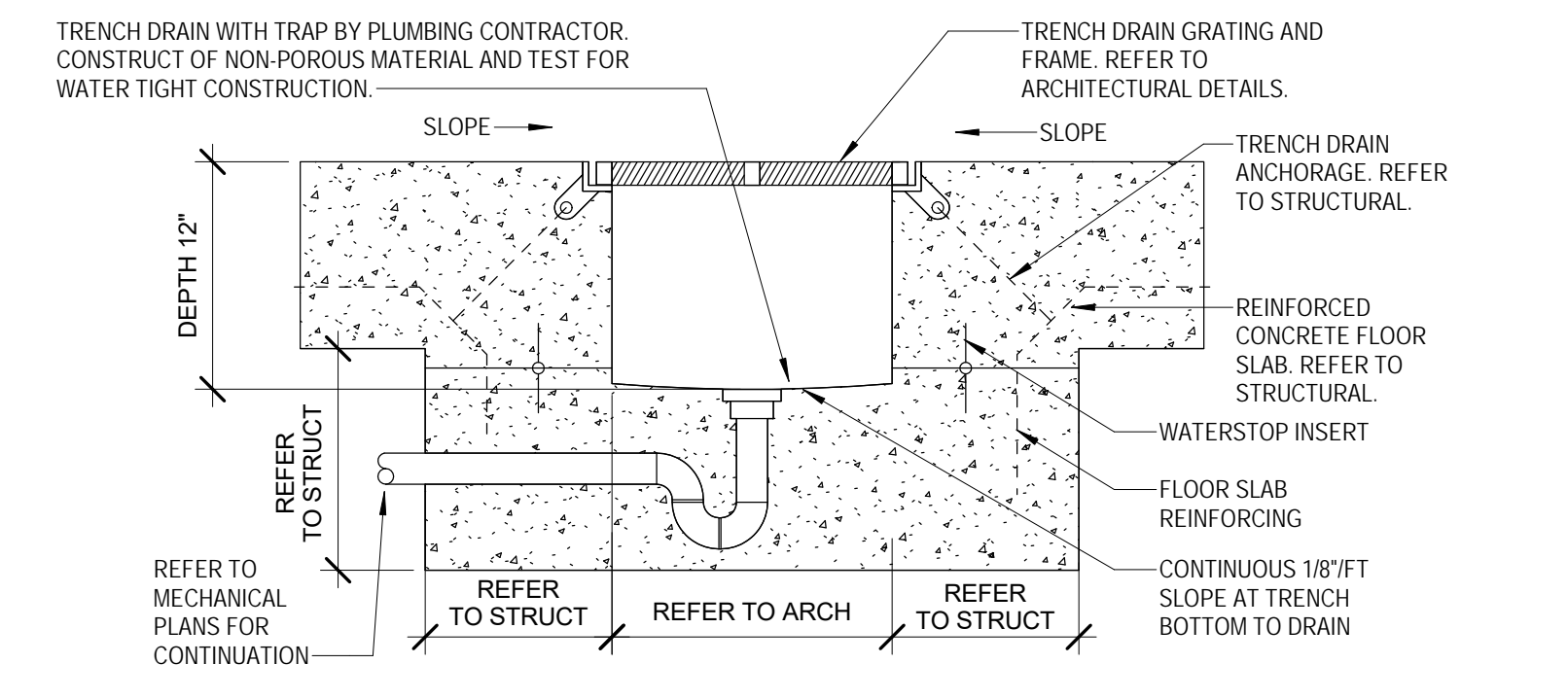
7 CLEVIS HANGER TRANSVERSE BRACING DETAIL
SCALE: 1/8" = 1'-0"

NOTE: SEISMIC ZONE X RESTRAINTS SHALL NOT BE REQUIRED FOR THE FOLLOWING INSTALLATIONS.

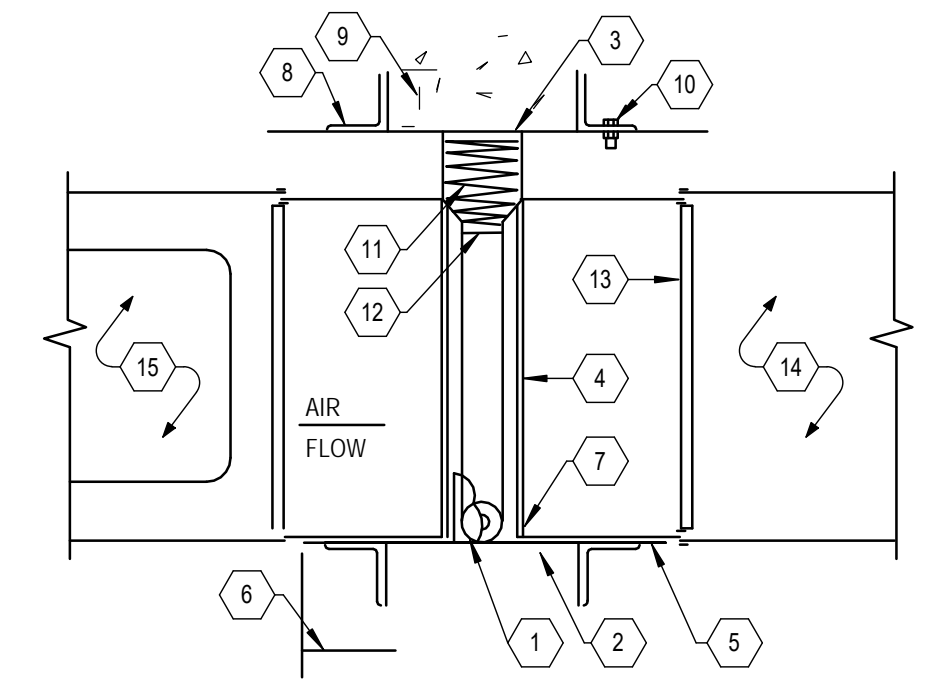
1. GAS PIPING LESS THAN 1 INCH INSIDE DIAMETER.
2. PIPING IN BOILER AND MECHANICAL ROOMS LESS THAN 1-1/4 INCH INSIDE DIAMETER.
3. ALL OTHER PIPING LESS THAN 2-1/2" INSIDE DIAMETER.
4. ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

DIA.	STANDARD WEIGHT PIPE	MAX TRANSVERSE SPAN
1	10'-3"	
1-1/2	12'-0"	
2	15'-6"	
2-1/2	14'-9"	
3	16'-3"	
3-1/2	17'-0"	
4	18'-3"	
5	20'-3"	
6	22'-0"	
8	24'-9"	
10	27'-0"	
12	29'-0"	

1. MAXIMUM SPAN FOR TRANSVERSE BRACING FOR SEISMIC ZONE X.
2. MAXIMUM SPAN FOR LATERAL BRACING SHALL NOT EXCEED TWICE THAT SHOWN FOR TRANSVERSE BRACING.

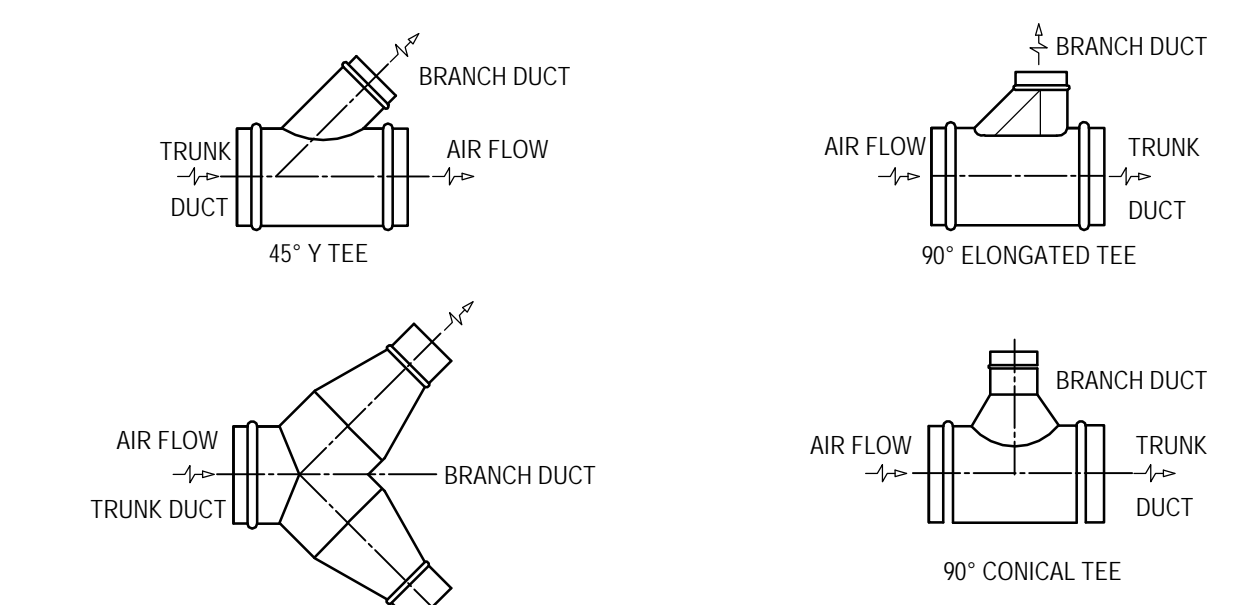


8 TRENCH DRAIN DETAIL WITH TRAP
SCALE: NO SCALE

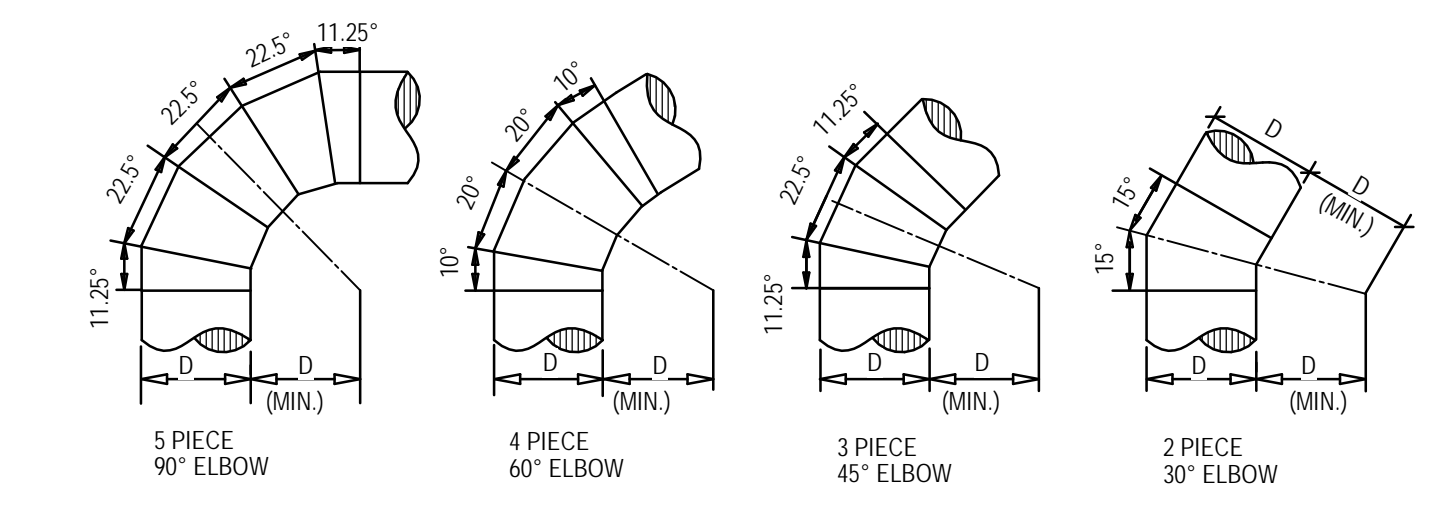


- 1 MASONRY OPENING
- 2 INTERIOR OF OPENING LINED WITH U.L. LISTED MATERIAL HAVING SAME FIRE RESISTIVE RATING AS WALL.
- 3 CLEARANCE FOR THERMAL EXPANSION 1/8 INCH PER FOOT OF DUCT DIMENSION. MAX. 1/2 INCH. HALF FOR EACH SIDE.
- 4 FIRE DAMPER U.L. OR SMACNA LABEL.
- 5 STEEL SLEEVE. MINIMUM 1/4 GAGE.
- 6 SLEEVE TO EXTEND A MINIMUM OF 3 INCHES BEYOND WALL LINE.
- 7 BOLT OR WELD DAMPER TO SLEEVE. MINIMUM 1/4 INCH BOLTS OR 1/2 INCH WELDS 12 INCHES O.C. BEGIN 2 INCHES FROM CORNERS.
- 8 RETAINING ANGLES MINIMUM 1-1/2"x1-1/2"x1/2 GA. FOR DUCTS 0-48"; 2"x2"x1/8" FOR DUCT 48" ALL SIDES.
- 9 REGARDLESS OF DUCT SIZE. MIN. OVERLAP OF PREPARED OPENING FRAMEWORK BY RETAINING ANGLES SHALL BE 1 INCH.
- 10 RETAINING ANGLES ATTACHED TO SLEEVES WITH 1/4 INCH BOLTS OR 1/2 INCH WELDS 6 INCHES O.C. BEGIN 2 INCHES FROM CORNERS.
- 11 FIRE DAMPER BLADES.
- 12 U.L. FUSIBLE LINK.
- 13 BREAKAWAY CONNECTION. SLIP TYPE. ONE #10 S.M. SCREW OR DRIVE SLIPS MAY BE USED FOR SECURING SIDES.
- 14 DUCT
- 15 ACCESS DOOR.

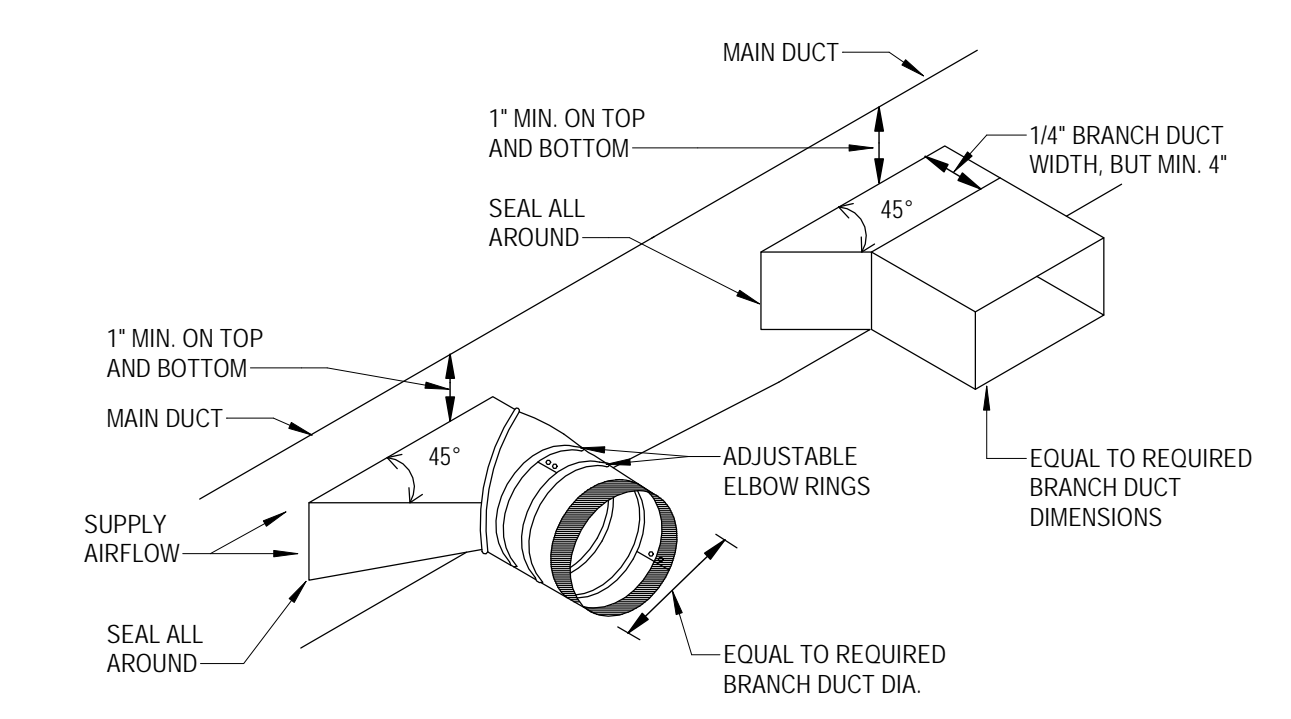
9 FIRE DAMPER DETAIL
SCALE: 1/2" = 1'-0"



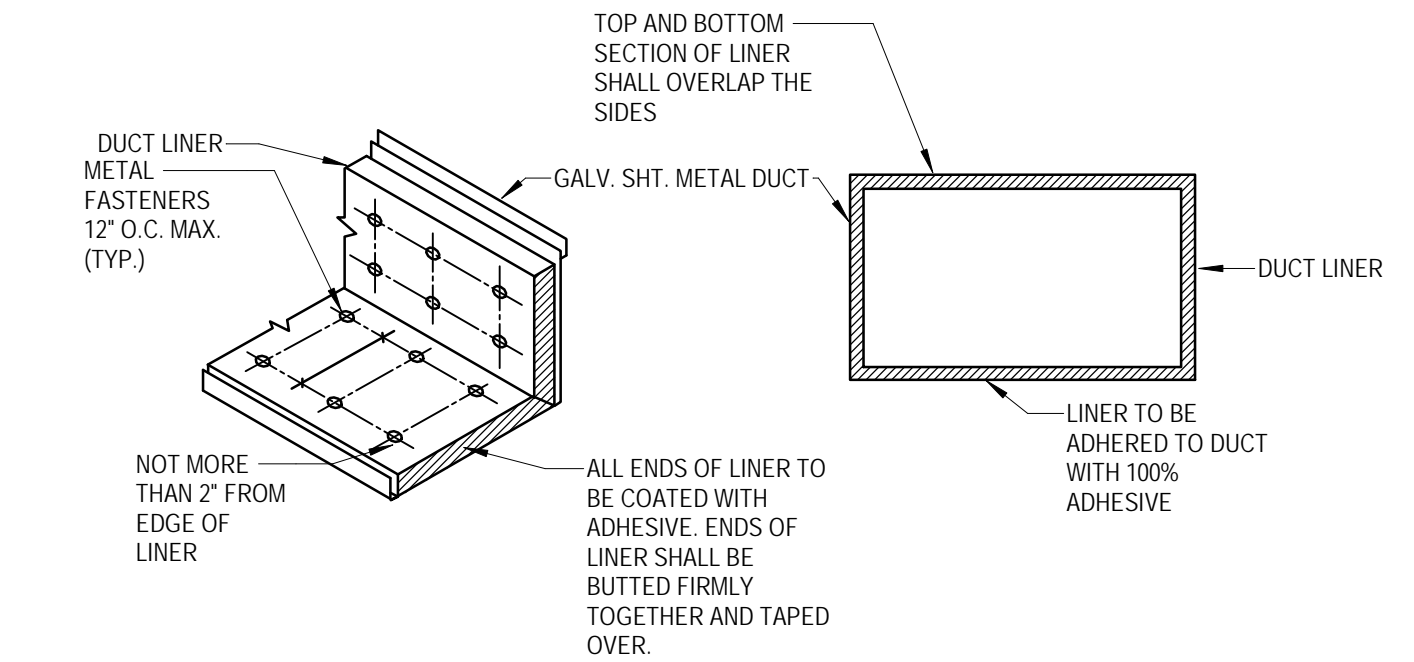
1 ROUND DUCT BRANCH TAKE-OFF DETAIL
SCALE: 1/2" = 1'-0"



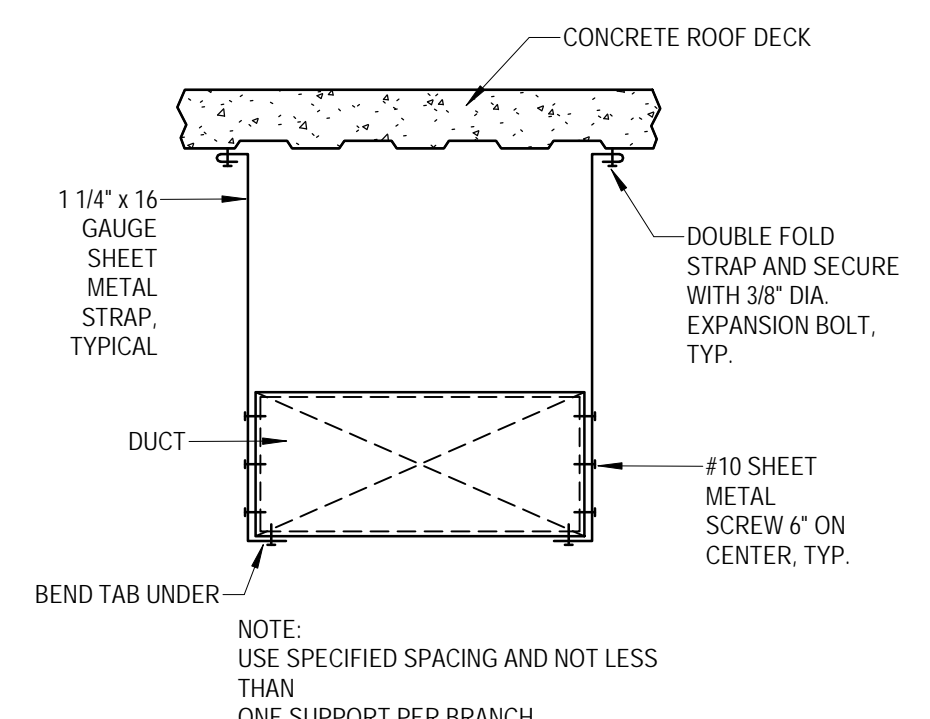
2 ROUND DUCT ELBOWS DETAIL
SCALE: 1/2" = 1'-0"



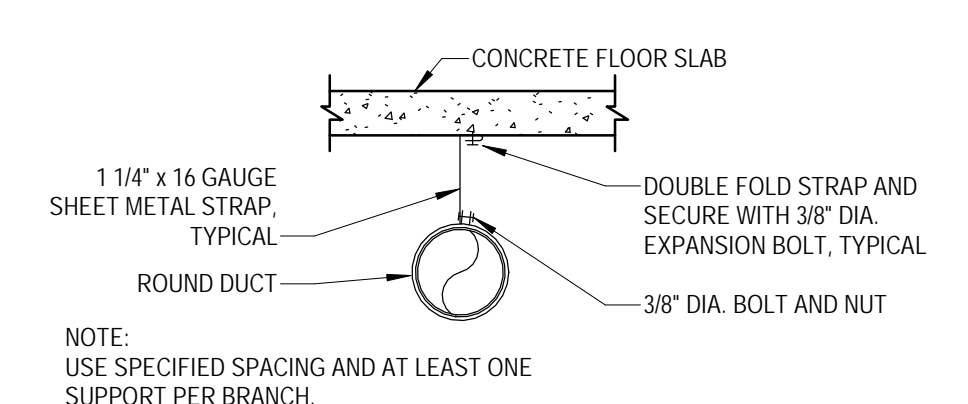
3 TYPICAL BRANCH TAKEOFF FITTING DETAIL
SCALE: NOT TO SCALE



4 RECTANGULAR DUCT LINER DETAIL
SCALE: 1/2" = 1'-0"



5 RECTANGULAR DUCT DETAIL
SCALE: 1/2" = 1'-0"



6 ROUND DUCT SUPPORT DETAIL
SCALE: 1/2" = 1'-0"



PLUMBING FIXTURE SCHEDULE										
SYMBOL	FIXTURE	CW	HW	W	V	DESCRIPTION	SPECIFICATION			
WC-1	WATER CLOSET	1	--	4	2	FLOOR MOUNTED, MANUAL DUAL FLUSH VALVE, ADA	WATER CLOSET: KOHLER K-4368 HIGH-CLIFF VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, 1-1/2" TOP SPUD, ADA TOILET WITH K-4670-C LUSTRA OPEN-FRONT SEAT. SLOAN WES-111 MANUAL DUAL FLUSH, 1.6 GPF FLUSH VALVE; PROVIDE 'DIRT GRABBER' FLUSH VALVE FILTER, COORDINATE SIZE WITH FLUSH VALVE; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE.			
L-1	PATIENT LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG, SENSOR FAUCET	LAVATORY: KOHLER K2030 GREENWICH, 20" X 16" VITREOUS CHINA, WITH FRONT OVERFLOW, 4" CENTERS. CHICAGO 116 113 AB 1 ELECTRONIC FAUCET, WITH 5/25" RIGIDSWING GOOSENECK SPOUT WITH 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT. POWERS LF480 THERMOSTATIC MIXING VALVE WITH WATTS LF7 DUAL CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.			
S-1	DOUBLE COMPARTMENT SINK	1/2	1/2	2	1 1/2	TWO COMPARTMENT COUNTER MOUNTED, STAINLESS STEEL	ELKAY MODEL LRD4321-4.5 TWO COMPARTMENT SS COUNTER MOUNTED SINK WITH BUD-STRAINERS AND CHICAGO FIG 201-AGN84FC317ABCP 1.5 GPM FAUCET CAST BRASS CHROME PLATED P TRAP 1/4 TURN STOPS WITH BRAIDED SS SUPPLIES. PROVIDE SINK WITH BADGER 5 1/2 HP GARBAGE DISPOSAL AND DOUBLE STOP ON HOT WATER FOR DISHWASHER CONNECTION.			
S-2	HANDWASH SINK	1/2	1/2	2	1 1/2	COUNTER MOUNTED, STAINLESS STEEL	SINK (STAINLESS STEEL, COUNTER MOUNTED, SINGLE COMPARTMENT); JUST SL-2019-A-GR 18 GA. TYPE 304 STAINLESS STEEL SINK, 16" X 14" X 7.5" DEEP BASIN, SELF RIMMING, 8" CENTERS DRILLING WITH J-35 CUP STRAINER. PROVIDE CHICAGO 786-GNFCBOP FAUCET, NO. 317 4" WRIST BLADES. QNB RIGIDSWING CONVERTIBLE GOOSE NECK WITH 1.5 GPM FC LAMINAR FLOW CONTROL IN SPOUT AND PLAIN END SPOUT RING. WATTS LFUSG-B-4M THERMOSTATIC MIXING VALVE WITH WATTS # 7 DUAL CHECK VALVES ON HOT AND COLD LINES INSTALLED IN CEILING. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS.			
S-3	NURSE STATION SINK	1/2	1/2	2	1 1/2	COUNTER MOUNTED, STAINLESS STEEL	SINK (STAINLESS STEEL, COUNTER MOUNTED, SINGLE COMPARTMENT); JUST SL-1815-A-GR 18 GA. TYPE 304 STAINLESS STEEL SINK, 12" X 12" X 7.1/2" DEEP BASIN, SELF RIMMING, 8" CENTERS DRILLING WITH J-35 CUP STRAINER. CHICAGO 786-GNFCBOP 4" WRIST BLADES. 5.3HP GOOSE NECK SPOUT WITH 0.5 GPM FC LAMINAR FLOW CONTROL AND THREADED END SPOUT AND RING. WATTS LFUSG-B-4M THERMOSTATIC MIXING VALVE WITH WATTS # 7 DUAL CHECK VALVES ON HOT AND COLD LINES INSTALLED IN CEILING. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS.			
SS-1	SERVICE SINK	3/4	3/4	3	1 1/2	CORNER FLOOR MOUNT, JANITOR'S CLOSET	SERVICE SINK (FLOOR MOUNTED); KOHLER K6710, WHITE, 28 X 28-INCH, ENAMELED CAST IRON FLOOR-MOUNTED CORNER MODEL. K9146-3" DRAIN WITH STRAINER, NO. K8940 REMOVABLE VINYL-COATED RIM GUARD; CHICAGO 897 FAUCET WITH VACUUM BREAKER, SCREWDRIVER STOPS IN SHANKS, 5 FOOT RUBBER HOSE AND 653 WALL HOOK. INSTALLED IN CEILING ABOVE SERVICE SINK WITH ACCESS DOOR IF HARD CEILING. PROVIDE WATTS LFMV THERMOSTATIC MIXING VALVE WITH WATTS # 7 DUAL CHECK VALVES ON HOT AND COLD LINES.			
SH-1	PAT. RM. SHOWER	1/2	1/2	--	--	ADA, FIXED AND HAND HELD SHOWER HEADS	SHOWER (ADA COMPLIANT); SYMMONS 1-1170V-T600B-36-VX-1.5 VISU-TEMP EXTRA HEAVY DUTY SHOWER SYSTEM WITH PRESSURE BALANCING MIXING VALVE, CLEAR-VUE THERMOMETER, LEVER HANDLE, ADJUSTABLE STOP SCREW, INTEGRAL SERVICE STOPS, 1.5 GPM SHOWER HEAD WITH ARM AND FLANGE, LEVER DIVERTER WITH INTEGRAL VOLUME CONTROL, 1.5 GPM WALL-HAND SHOWER WITH 6' FLEXIBLE METAL HOSE, IN-LINE BREAKER, WALL CONNECTION AND FLANGE AND SYMMONS 30" T600B ADA GRAB AND SLIDE BAR FOR HAND SHOWER MOUNTING.			
WO-1	WATER OUTLET BOX	1/2	--	2	1 1/2	FLUSH MOUNTED IN WALL DRAIN	WATER OUTLET BOX: WATER-TITE 8212 WASHING MACHINE OUTLET BOX WITH DRAIN QUARTER TURN BALL VALVE FOR USE WITH ICE AND SODA MACHINE. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH AND INSTALL OUTLET BOX DRAIN FLUSH WITH WALL. PROVIDE WITH PVC TRAP.			
FD-1	SHOWER DRAIN	--	--	2	1 1/2	--	FLOOR DRAIN (RESTROOM); SMITH FIXTURE 2008Y FLOOR DRAIN, ROUND TOP, WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND CHROME PLATED ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. SLOPE FLOOR TO DRAIN.			
TD-1	TRENCH DRAIN	--	--	2	--	PATIENT TOILET ROOM	TRENCH DRAIN: ZURN MODEL #28880-2S-WG TYPE 304 FABRICATED STAINLESS STEEL, 3'-6" IN LENGTH LINEAR SHOWER DRAIN. COMPLETE WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2 IN. NO-HUB CENTER OUTLET, ADJUSTABLE SECURED LEVELING FRAME WITH BUILT-IN TOILE EDGE, AND SECURED, LIGHT DUTY, SLOTTED HEEL-PROOF GRATE. DRAIN IS DESIGNED FOR INSTALLATION ON A 2" CONCRETE PAD AND CAN BE ADJUSTED TO ACCOMMODATE 1/4" AND 3/8" FINISHED TILE THICKNESS.			
RD-1	ROOF DRAIN	--	--	SEE PLANS	--	--	ROOF DRAIN: SMITH FIGURE 1010Y-R-C-DID CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.			

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

MEDICAL GAS OUTLETS SCHEDULE																
SYMBOL	ROOM TYPE	# OF OUTLETS							PIPE DROP SIZE TO OUTLET(S)							REMARKS
		O2	MA	MV	WAGD	N2O	N	CO2	O2	MA	MV	WAGD	N2O	N	CO2	
MD-1	SEE PLANS	1	--	1	--	--	--	--	1/2	--	3/4	--	--	--	--	1.2
MD-2	SEE PLANS	--	1	--	--	--	--	--	--	1/2	--	--	--	--	--	1.2

UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT LOCATION AND PLACEMENT OF OUTLETS.
1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS
2. WALL MOUNTED OUTLETS

REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
CLIENT NUMBER:
DATE: 15 DECEMBER 2020

ALTA VIEW HOSPITAL - ACUTE REHABILITATION UNIT
 INTERMOUNTAIN HEALTHCARE
 9660 SOUTH 1300 EAST, SANDY, UT
 CONSTRUCTION DOCUMENTS

MECHANICAL SCHEDULES

GENERAL NOTES

1. ALL ELEMENTS SHOWN LIGHT ARE TO REMAIN.
2. ALL ELEMENTS SHOWN DARK WITH X'S ARE TO BE REMOVED.

KEYED NOTES

1. REMOVE EXISTING MEDICAL GAS OUTLETS AS SHOWN. REMOVE BRANCHES BACK TO MAINS AND CAP.
2. REMOVE EXISTING BRANCHES AND MAINS IN PATIENT ROOM AS SHOWN IN ORDER TO INSTALL PATIENT LIFT SUPPORT AND KICKERS. MEDICAL GAS PIPES ARE TO BE REPLACED. SEE SHEET MG101. SEE ARCHITECTURAL DRAWINGS FOR CEILING PLANS.
3. 1/2" MEDICAL GAS BRANCH IS TO BE REMOVED AND REPLACED WITH EXISTING CEILING GRID IN PLACE. SEE SHEET MG101.



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INTERMOUNTAIN HEALTHCARE
 9660 SOUTH 1300 EAST, SANDY, UT

CONSTRUCTION DOCUMENTS

MEDICAL GAS DEMOLITION
 PLAN - LEVEL 1

MGD101



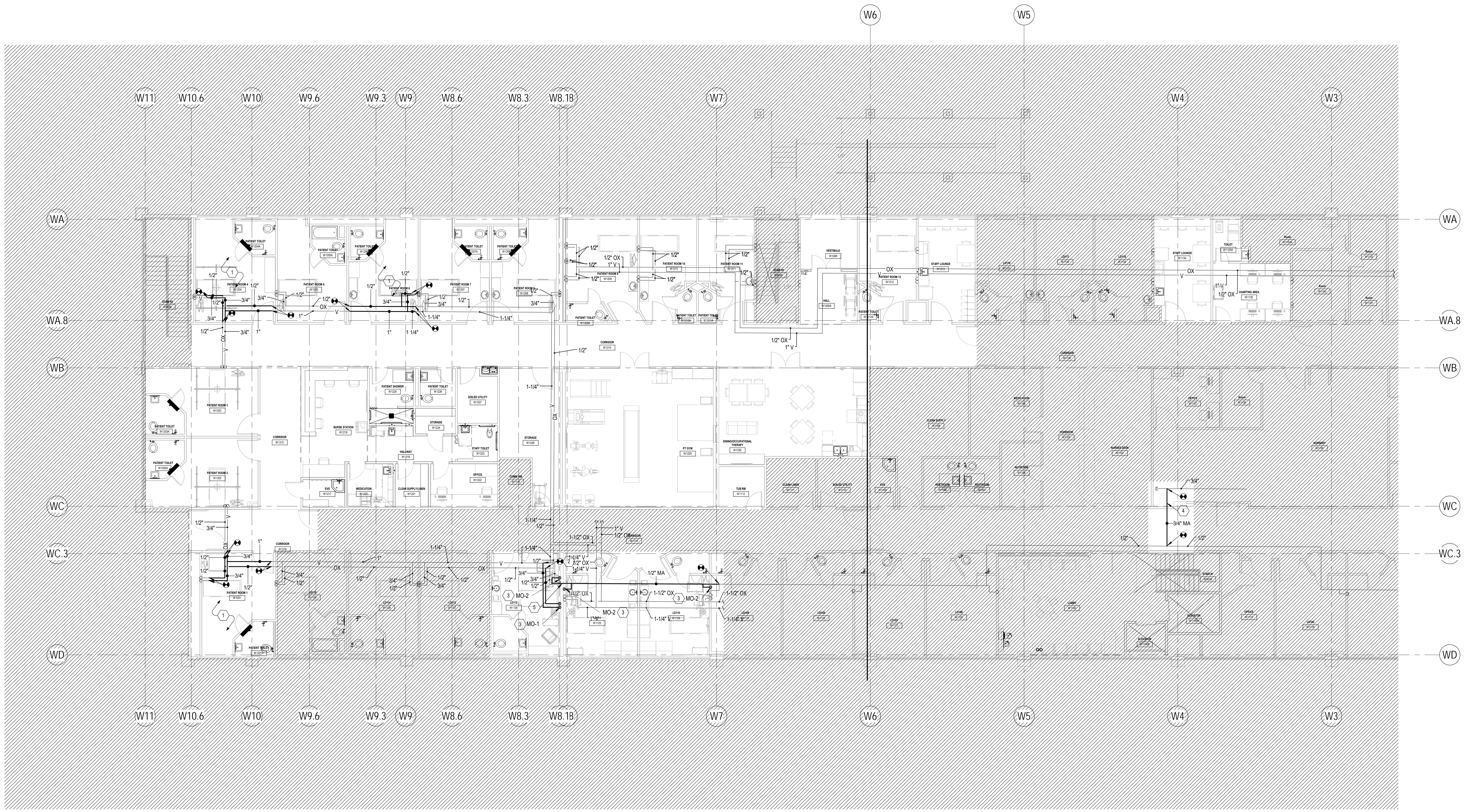
**MEDICAL GAS DEMOLITION
 PLAN - LEVEL 1**

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

12/15/2020 10:28 AM

KEYED NOTES

1. MEDICAL GAS PIPES ARE TO BE REPLACED AS SHOWN. COORDINATE WITH NEW PATIENT LIFT SUPPORT AND KICKERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING PLANS.
2. PROVIDE AND INSTALL A NEW SET OF MEDICAL GAS OUTLETS IN PATIENT ROOM AS SHOWN. TIE TO EXISTING MAINS.
3. PROVIDE AND INSTALL NEW SET OF MEDICAL GASSES AT EXISTING WALL.
4. NEW MEDICAL AIR PIPE IS TO BE INSTALLED WITH CEILING GRID IN PLACE.
5. PROVIDE AND INSTALL METRAFLEX EXPANSION LOOP FOR 1/2" MEDICAL AIR PIPE AT BUILDING EXPANSION JOINT. EXPANSION LOOP TO BE RATED FOR 2' EXPANSION.



1 MEDICAL GAS PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

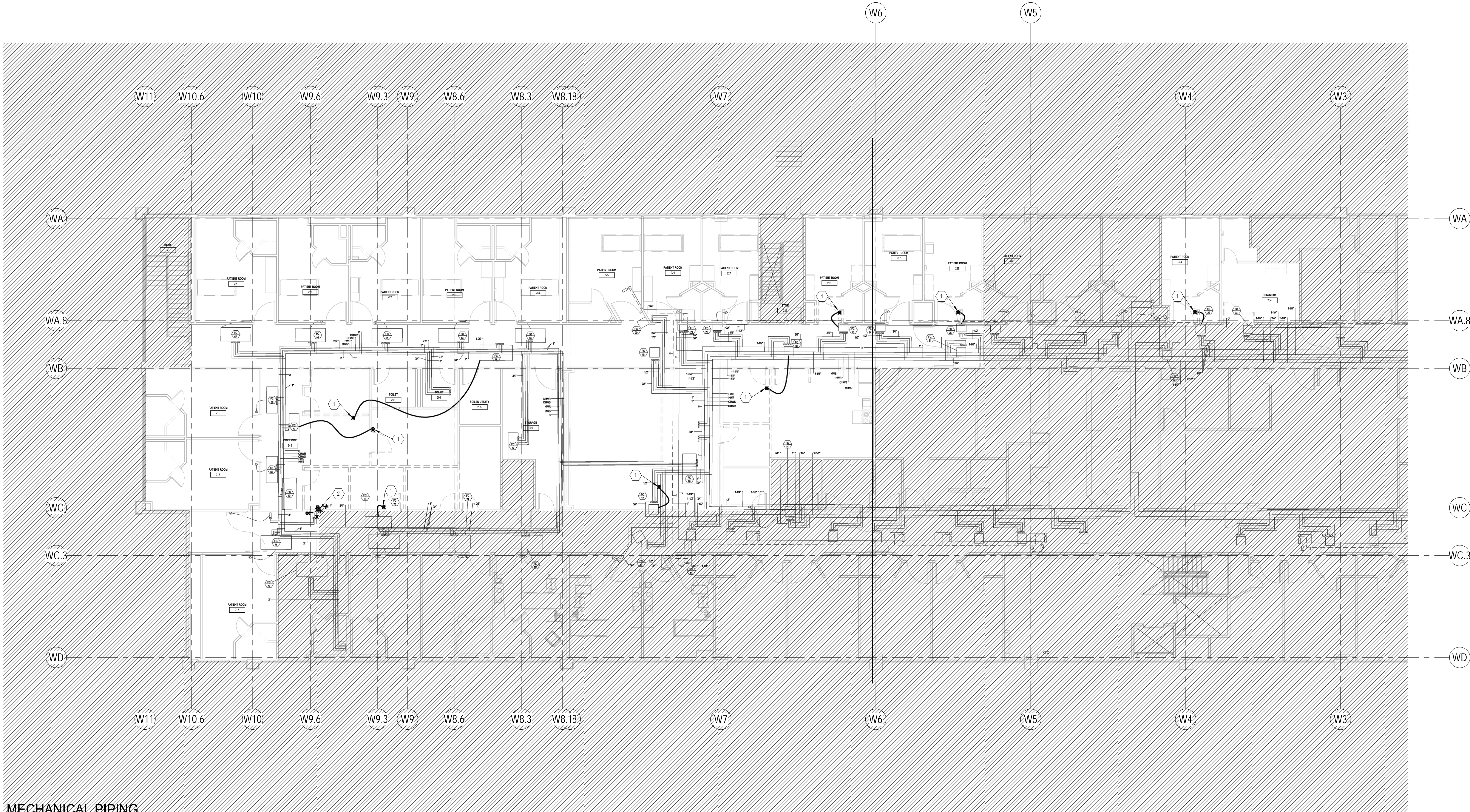
MEDICAL GAS PLAN - LEVEL

GENERAL NOTES

1. ALL ELEMENTS SHOWN LIGHT ARE TO REMAIN.
2. ALL ELEMENTS SHOWN DARK WITH X'S ARE TO BE REMOVED.

KEYED NOTES

1. THERMOSTAT AND WIRING IS TO BE REMOVED AS SHOWN.
2. CONDENSATE PIPE IS TO BE REMOVED AS SHOWN AND REROUTED. SEE SHEET MP101.



**MECHANICAL PIPING
DEMOLITION PLAN - LEVEL 1**
SCALE: 1/8" = 1'-0"

REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
CLIENT NUMBER:
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CONSTRUCTION DOCUMENTS

MECHANICAL PIPING
DEMOLITION PLAN - LEVEL 1

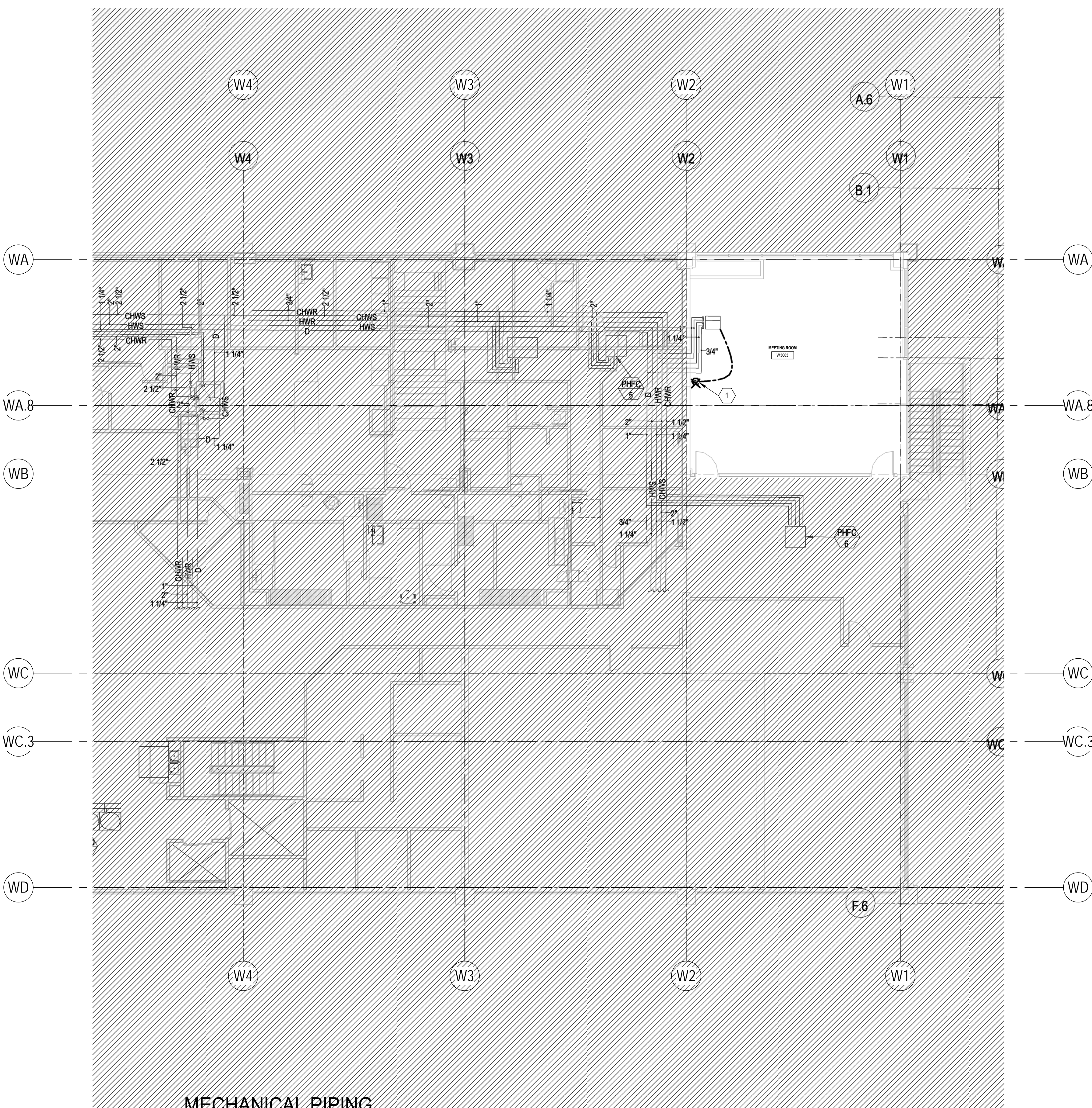
MPD101

GENERAL NOTES

- 1. ALL ELEMENTS SHOWN LIGHT ARE TO REMAIN.
- 2. ALL ELEMENTS SHOWN DARK WITH X'S ARE TO BE REMOVED.

KEYED NOTES

- 1. THERMOSTAT AND WIRING IS TO BE REMOVED AS SHOWN.



**MECHANICAL PIPING
DEMOLITION PLAN - LEVEL 2**
SCALE: 1/8" = 1'-0"

REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
CLIENT NUMBER:
DATE: 15 DECEMBER 2020

ALTA VIEW HOSPITAL - ACUTE REHABILITATION UNIT
INTERMOUNTAIN HEALTHCARE
9660 SOUTH 1300 EAST, SANDY, UT
CONSTRUCTION DOCUMENTS

- KEYED NOTES**
- CONNECT TO EXISTING CONDENSATE DRAIN PIPE AND ROUTE TO SERVICE SINK. ROUTE PIPE WITHIN WALL AND TERMINATE INTO SERVICE SINK. THERMOSTATS ARE TO BE MOUNTED 48" AFF. TYPICAL.
 - CONNECT TO EXISTING FAN COIL AS SHOWN. EXISTING THERMOSTAT IS TO BE RELOCATED.



MECHANICAL PIPING PLAN - LEVEL 1
 1 SCALE: 1/8" = 1'-0"

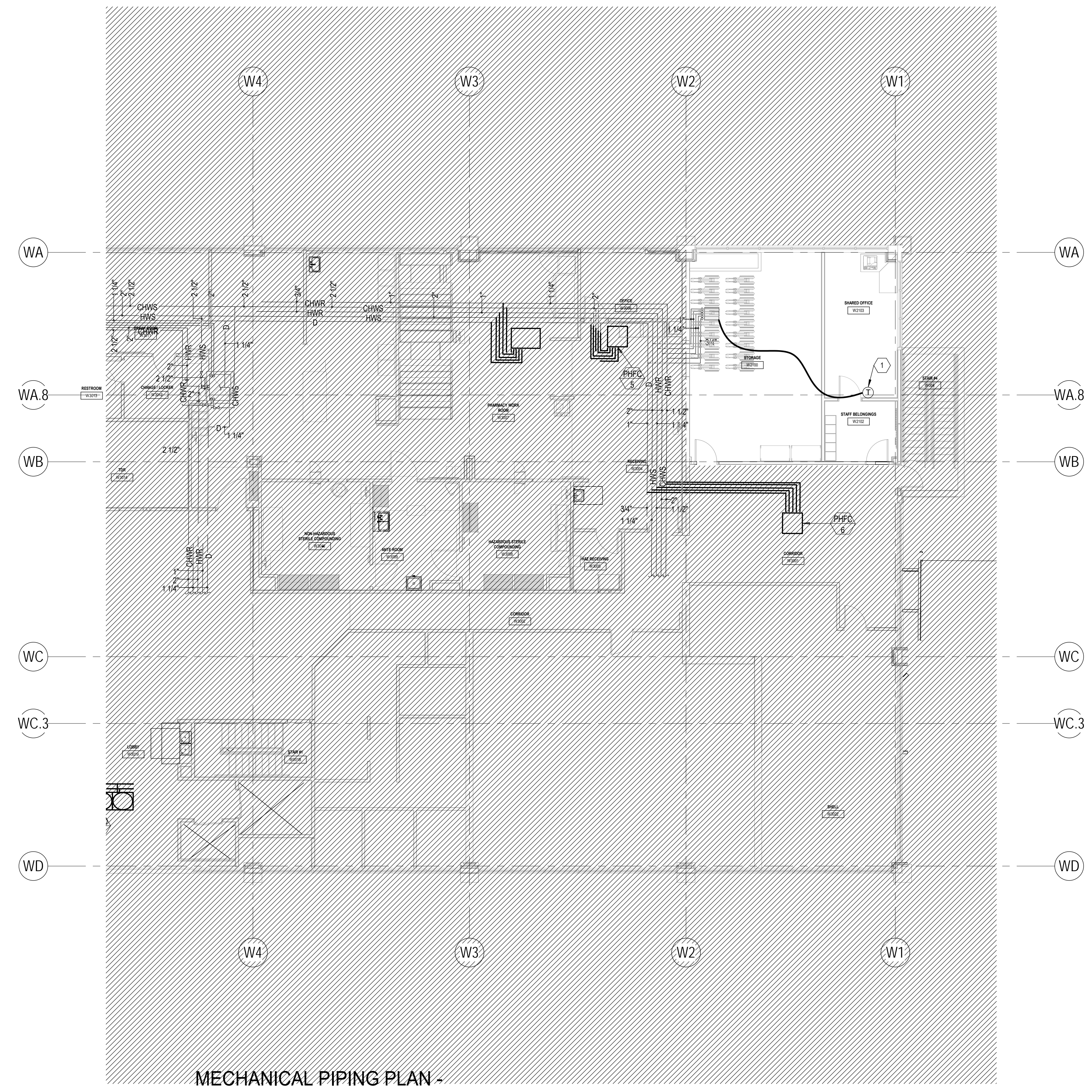
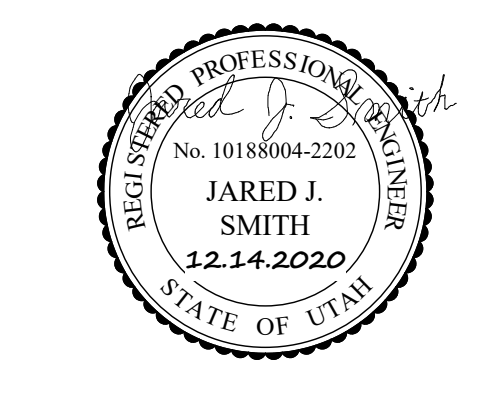
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 CONSTRUCTION DOCUMENTS

KEYED NOTES

1. THERMOSTATS ARE TO BE MOUNTED 48" AFF. TYPICAL. CONNECT TO EXISTING FAN COIL AS SHOWN.



MECHANICAL PIPING PLAN -
1 LEVEL 2
 SCALE: 1/8" = 1'-0"

REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
 CLIENT NUMBER:
 DATE: 15 DECEMBER 2020

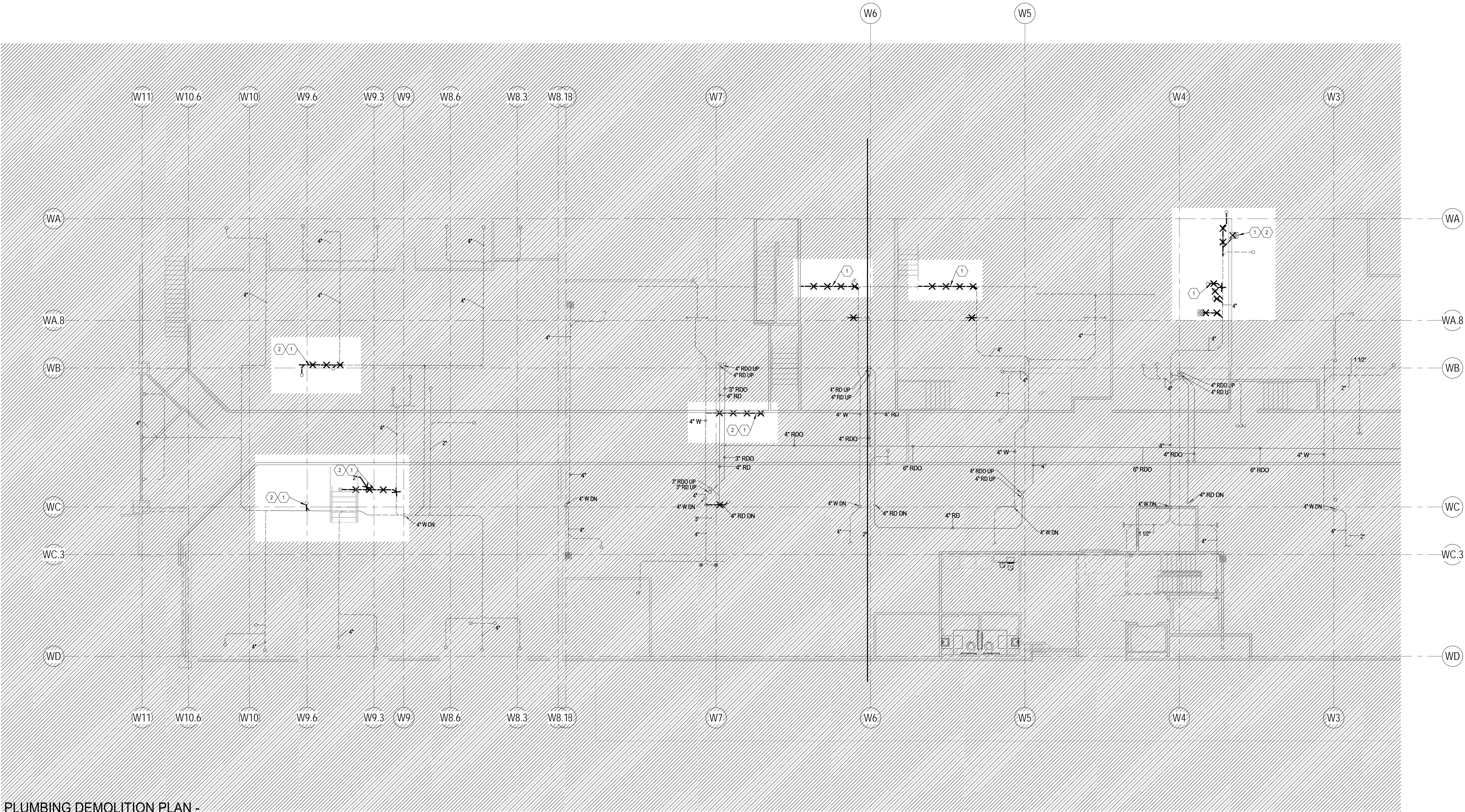
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GENERAL NOTES

1. ALL ELEMENTS SHOWN LIGHT ARE TO REMAIN.
2. ALL ELEMENTS SHOWN DARK WITH X'S ARE TO BE REMOVED.

KEYED NOTES

1. EXISTING WASTE BRANCH IS TO BE REMOVED BACK TO MAIN AS SHOWN.
2. WASTE PIPING IS ABOVE HARD LID CEILING. EXISTING CEILING IS TO BE REMOVED IN ORDER TO REMOVE PIPING. EXISTING CEILING IS TO BE REPLACED AND REPAIRED UPON PIPING REMOVAL.



PLUMBING DEMOLITION PLAN - LEVEL 0
SCALE: 1/8" = 1'-0"

REV	DATE	DESCRIPTION

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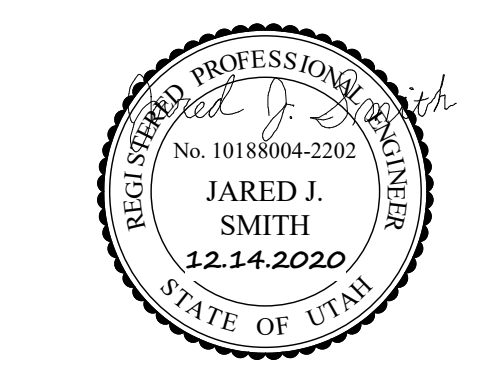
PLUMBING DEMOLITION PLAN - LEVEL 1

GENERAL NOTES

1. ALL ELEMENTS SHOWN LIGHT ARE TO REMAIN.
2. ALL ELEMENTS SHOWN DARK WITH X'S ARE TO BE REMOVED.

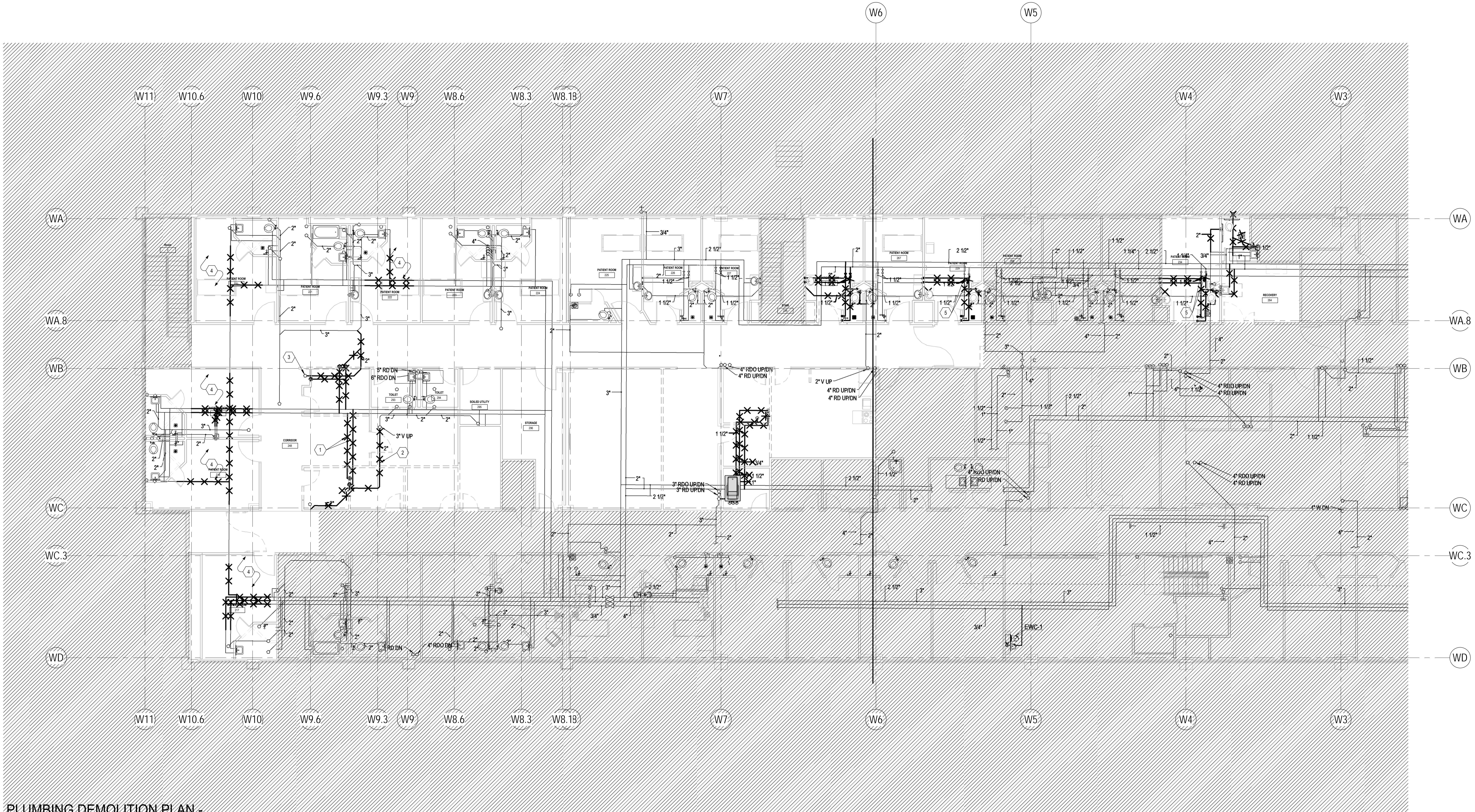
KEYED NOTES

1. HOT AND COLD WATER PIPES ARE TO BE REMOVED BACK TO MAINS, TYPICAL WHERE SHOWN.
2. VENT PIPES ARE TO BE REMOVED BACK TO MAINS, TYPICAL WHERE SHOWN.
3. EXISTING ELECTRIC WATER COOLER IS TO BE REMOVED AND RELOCATED. SEE SHEET PL101 FOR NEW LOCATION.
4. EXISTING DOMESTIC WATER PIPES ARE TO BE REMOVED AND REPLACED IN ORDER TO INSTALL NEW STRUCTURAL SUPPORT FOR PATIENT LIFT AND TRACK. COORDINATE NEW PIPING WITH NEW STRUCTURAL SUPPORT AND KICKERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING PLANS.
5. EXISTING DOMESTIC WATER PIPES IN PATIENT ROOMS ARE TO BE REMOVED BACK TO VALVES.



REV	DATE	DESCRIPTION

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PLUMBING DEMOLITION PLAN - LEVEL 1
 SCALE: 1/8" = 1'-0"

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 INTERMOUNTAIN HEALTHCARE
 9660 SOUTH 1300 EAST, SANDY, UT
 CONSTRUCTION DOCUMENTS

PLUMBING DEMOLITION PLAN - LEVEL 1

KEYED NOTES

1. TIE NEW WASTE PIPE INTO EXISTING AS SHOWN. FIELD VERIFY ALL TIE IN POINTS AND INVERTS, TYPICAL WITH ALL TIE IN LOCATIONS.
2. WASTE PIPING IS ABOVE HARD LID CEILING. EXISTING CEILING IS TO BE REMOVED IN ORDER TO INSTALL NEW PIPING. EXISTING CEILING IS TO BE REPLACED AND REPAIRED UPON PIPING INSTALLATION.
3. EXISTING DRAIN PAN UNDER WASTE PIPING IN ELECTRICAL ROOM IS TO BE EXTENDED UNDER NEW WASTE PIPING.



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

REV	DATE	DESCRIPTION

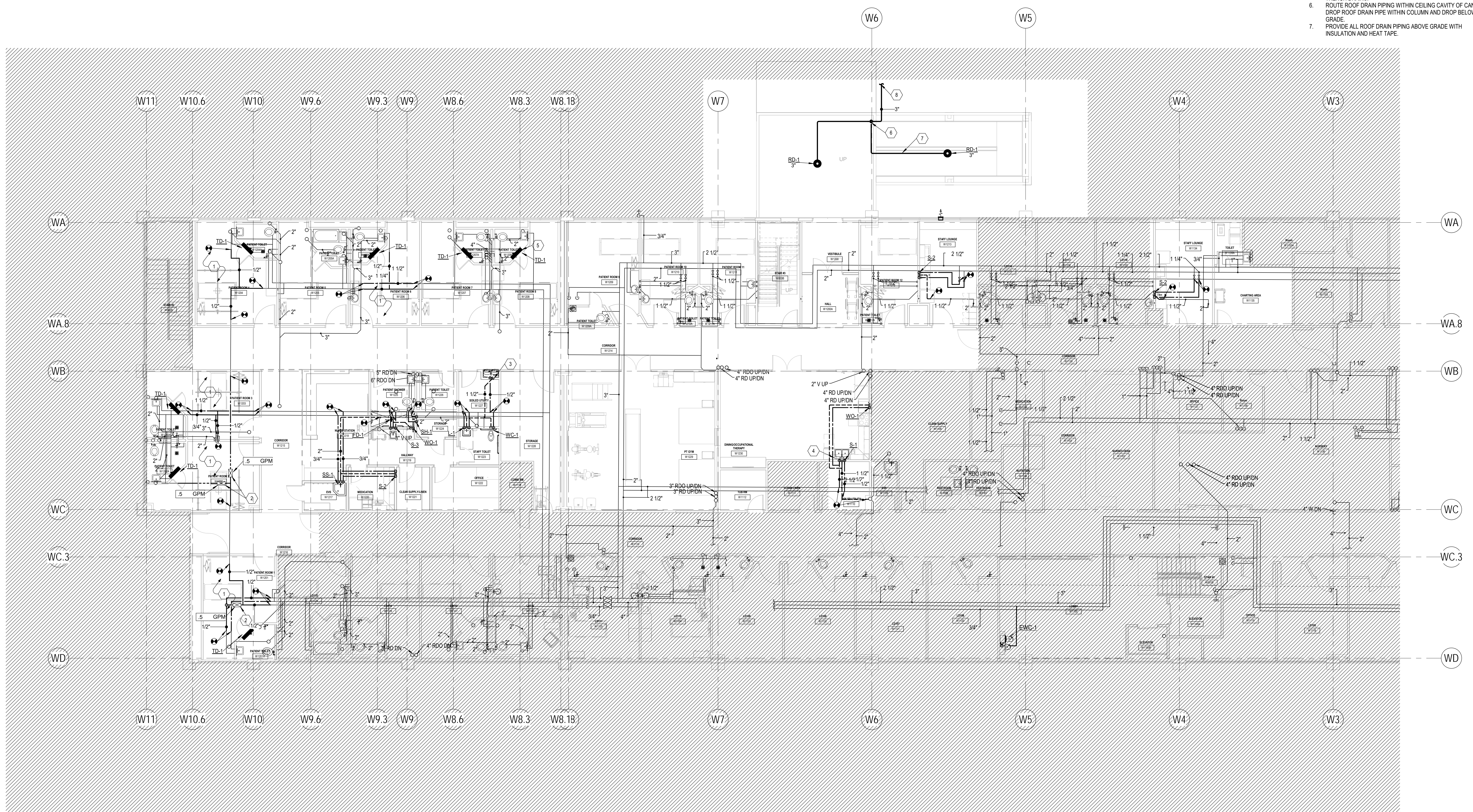
VCBO NUMBER: 19740.00
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KEYED NOTES

8. SEE CIVIL DRAWINGS FOR CONTINUATION.

1. RECONNECT DOMESTIC WATER PIPING AS SHOWN. COORDINATE NEW PIPES WITH PATIENT LIFT AND TRACK STRUCTURAL SUPPORT AND KICKERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING PLANS.
2. PROVIDE AND INSTALL NEW BALANCING VALVE. BALANCE FLOW TO INDICATED FLOW RATE.
3. THE EXISTING ELECTRICAL WATER COOLER IS TO BE RELOCATED TO ALCOVE AS SHOWN. RECONNECT ALL UTILITY PIPES.
4. PROVIDE SINK WITH TWO HOT WATER STOPS AND GARBAGE DISPOSAL. CONNECT DISHWASHER TO HOT WATER AND DISPOSAL. SEE PLUMBING FIXTURE SCHEDULE.
5. INSTALL NEW TRENCH DRAIN ON EXISTING FLOOR SLAB AT TOILET ROOM DOOR THRESHOLD AS SHOWN, TYPICAL FOR ALL TRENCH DRAINS.
6. ROUTE ROOF DRAIN PIPING WITHIN CEILING CAVITY OF CANOPY. DROP ROOF DRAIN PIPE WITHIN COLUMN AND DROP BELOW GRADE.
7. PROVIDE ALL ROOF DRAIN PIPING ABOVE GRADE WITH INSULATION AND HEAT TAPE.



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



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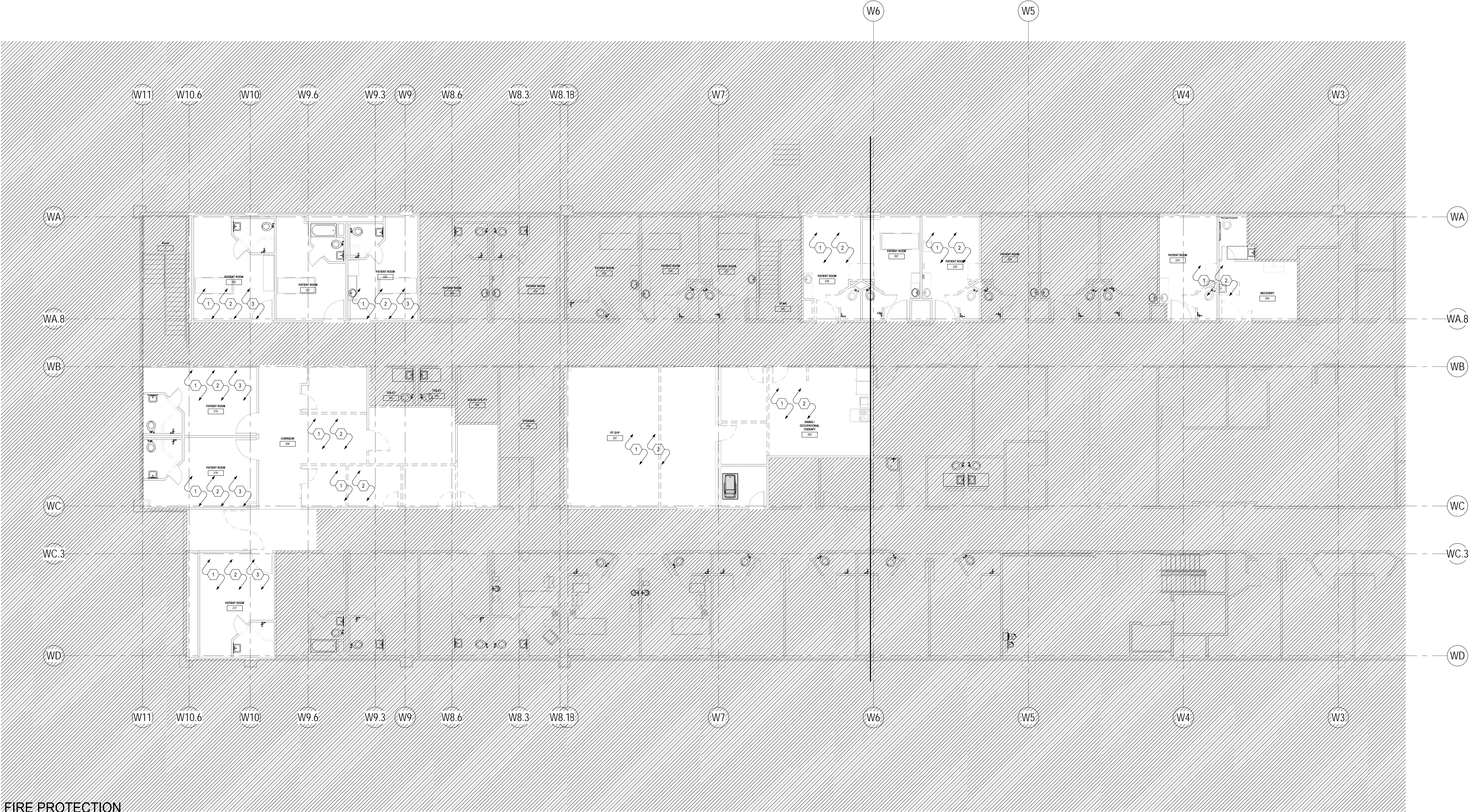
PLUMBING PLAN - LEVEL 1

GENERAL NOTES

1. ALL ELEMENTS SHOWN LIGHT ARE TO REMAIN.
2. ALL ELEMENTS SHOWN DARK WITH X'S ARE TO BE REMOVED.

KEYED NOTES

1. THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING FIRE SPRINKLERS. ADD/REPOSITION EXISTING SPRINKLER LOCATION WITH A NEW SPRINKLER HEAD AS NECESSARY FOR THE REMODELED SPACE, INCLUDING NEW FLOOR PLAN, CEILING PLAN AND CEILING HEIGHT ADJUSTMENTS. MODIFY SPRINKLER PIPING AS REQUIRED. TYPICAL. REFER TO THE ARCHITECTURAL SHEETS FOR COMPLETE SCOPE OF THE PROJECT.
2. ALL SPRINKLERS IN THE REMODELED AREA ARE TO BE REPLACED WITH QUICK RESPONSE TYPE TO MATCH THE RATING OF THE SPACE. REPLACEMENT OF SPRINKLERS SHALL EXTEND TO ALL WALLS OR SOFFIT BREAKS.
3. CEILING MOUNTED PATIENT LIFTS WILL BE INSTALLED IN THESE ROOMS AND REPLACE TO ACCOMMODATE LIFTS.



**FIRE PROTECTION
DEMOLITION PLAN - LEVEL 1**

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

REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
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FIRE PROTECTION
DEMOLITION PLAN - LEVEL 1

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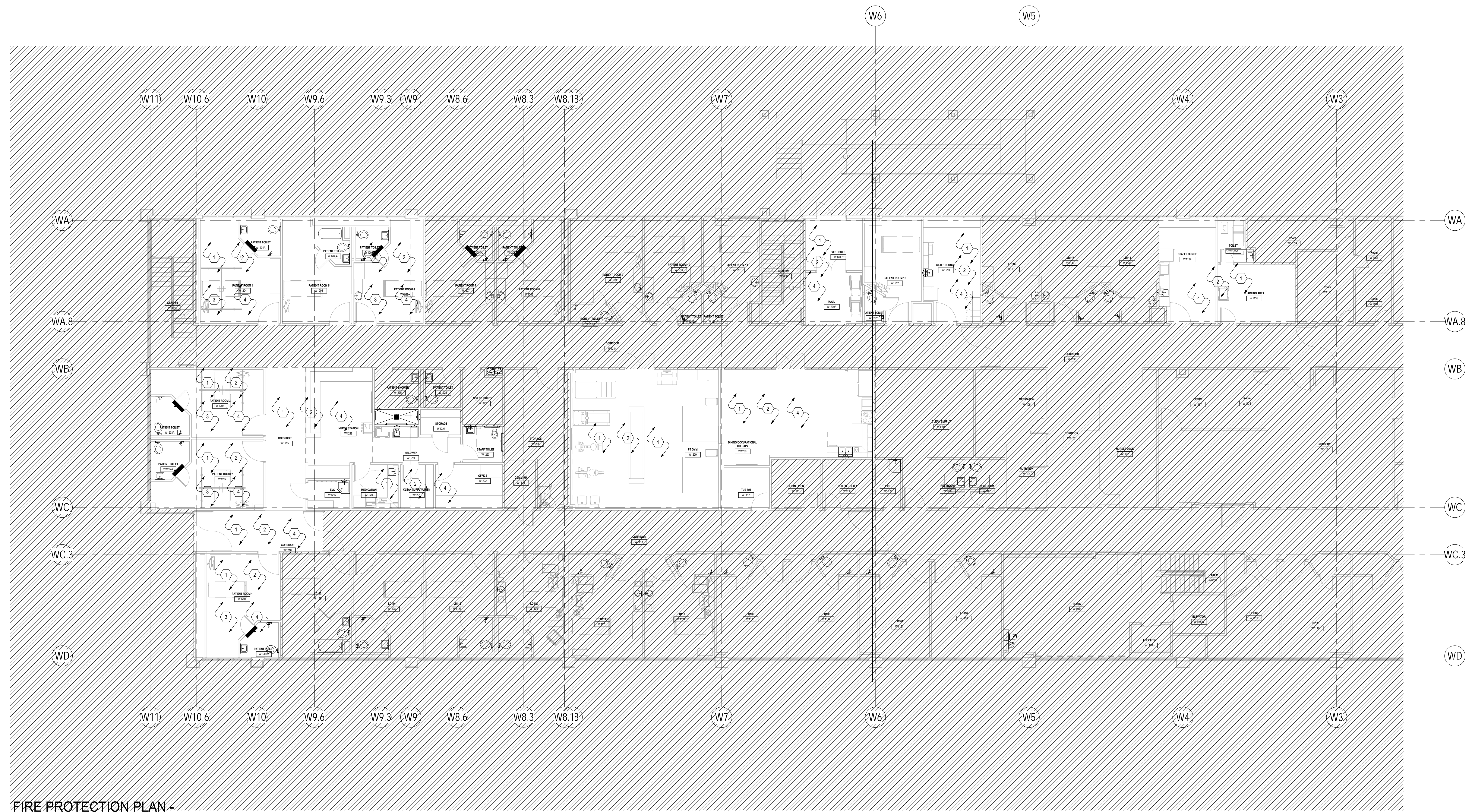
KEYED NOTES

1. THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING FIRE SPRINKLERS. ADD/REPOSITION EXISTING SPRINKLER LOCATION WITH A NEW SPRINKLER HEAD AS NECESSARY FOR THE REMODELED SPACE. INCLUDING NEW FLOOR PLAN, CEILING PLAN AND CEILING HEIGHT ADJUSTMENTS. MODIFY SPRINKLER PIPING AS REQUIRED. TYPICAL REFER TO THE ARCHITECTURAL SHEETS FOR COMPLETE SCOPE OF THE PROJECT.
2. ALL SPRINKLERS IN THE REMODELED AREA ARE TO BE REPLACED WITH QUICK RESPONSE TYPE TO MATCH THE RATING OF THE SPACE. REPLACEMENT OF SPRINKLERS SHALL EXTEND TO ALL WALLS OR SOFFIT BREAKS.
3. CEILING MOUNTED PATIENT LIFTS WILL BE INSTALLED IN THESE ROOMS. INSTALL NEW SPRINKLERS AND PIPING ACCORDINGLY.
4. FIRE SPRINKLERS SHALL BE INSTALLED TO MEET NFPA 13-2016 REQUIREMENTS, TYPICAL.



REV	DATE	DESCRIPTION

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

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FIRE PROTECTION PLAN -
 LEVEL 1

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
01	DETAIL INDICATOR. AS INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
02	ELEVATION OR SECTION INDICATOR. EXTERIOR. AS INDICATES ELEVATION OR SECTION NUMBER. E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
03	ELEVATION OR SECTION INDICATOR. INTERIOR. AS INDICATES ELEVATION OR SECTION NUMBER. E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
04	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
05	KEYNOTE INDICATOR.
06	REVISION INDICATOR.
07	EQUIPMENT INDICATOR.
08	MECHANICAL EQUIPMENT INDICATOR. "XX" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
09	BREAK, STRAIGHT. TO BREAK PARTS OF DRAWING
10	BREAK, ROUND
11	MATCH LINE INDICATOR. CENTER, EXTRA WIDE LINE.
12	NEW LINE. MEDIUM LINE.
13	HIDDEN FEATURES LINE. HIDDEN, THIN LINE
14	EXISTING TO REMAIN LINE. THIN LINE.
15	DEMOLITION LINE. DASHED, MEDIUM LINE
16	PROPERTY LINE. DASHED, WIDE LINE.
17	CONTRACT LIMIT LINE. DASHDOT, WIDE LINE.
18	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
19	EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "ILA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
01	WIRING.
02	WIRING TURNED UP OR TOWARDS OBSERVER.
03	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
04	BRANCH CIRCUIT HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
05	BRANCH CIRCUIT HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
06	BRANCH CIRCUIT HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS OR CABLES. LARGER CROSS LINE INDICATES EQUIPMENT GROUND. WAY CROSS LINE INDICATES INSULATED ISOLATED GROUND. FOR BRANCH WIRING, CROSS LINES INDICATE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
07	FLEXIBLE WIRING.
08	WIRING AND/OR RACEWAY. THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION NC = NURSE CALL CCTV = CLOSED CIRCUIT TELEVISION P = POWER FA = FIRE ALARM RC = RIGID CONDUIT FO = FIBER OPTICS T = TELEPHONE I = INTERCOM S = SOUND TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
09	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
10	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
11	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
12	ADA ACCESS PUSH PLATE
13	JUNCTION BOX.
14	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
15	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.
16	JUNCTION BOX, DUCT, UNDERFLOOR. TRIPLE, DOUBLE OR SINGLE DUCT SYSTEM AS INDICATED BY THE NUMBER OF PARALLEL LINES. DESIGNATIONS AS SHOWN FOR WIRING AND/OR RACEWAY SYMBOLS.
17	DUCT CELL FLOOR HEADER.
18	PULL BOX.
19	CABLE TRAY ABOVE ACCESSIBLE CEILING.
20	WIREWAY.
21	EARTH GROUND (ONE-LINE DIAGRAM).
22	JUNCTION BOX, CEILING.
23	LADDER RACK.
24	CABLE TRAY BELOW ACCESSIBLE FLOOR.
25	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
26	ELECTRIC VEHICLE CHARGING STATION.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
WIRING DEVICES	
01	RECEPTACLE, SINGLE. NEMA 5-20R.
02	RECEPTACLE, DUPLEX. NEMA 5-20R.
03	RECEPTACLE, DUPLEX, ABOVE COUNTER. NEMA 5-20R.
04	RECEPTACLE, DUPLEX, CEILING. NEMA 5-20R.
05	RECEPTACLE, DUPLEX, DEDICATED CIRCUIT. NEMA 5-20R.
06	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN. CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
07	RECEPTACLE, DUPLEX, ISOLATED GROUND. NEMA 5-20R.
08	RECEPTACLE, DUPLEX, SWITCHED. NEMA 5-20R.
09	RECEPTACLE, DUPLEX, FLOOR, UNDER CARPET. NEMA 5-20R.
10	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE". NEMA 5-20R.
11	RECEPTACLE, DUPLEX, WEATHERPROOF. NEMA 5-20R.
12	RECEPTACLE, DUPLEX, HOSPITAL GRADE. NEMA 5-20R.
13	RECEPTACLE, DUPLEX ON EMERGENCY POWER. NEMA 5-20R.
14	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER. NEMA 5-20R.
15	RECEPTACLE, DUPLEX, CONNECTED TO UPS. NEMA 5-20R.
16	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER. NEMA 5-20R.
17	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE. NEMA 5-20R.
18	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER. NEMA 5-20R.
19	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF. NEMA 5-20R.
20	RECEPTACLE, DUPLEX, RECESSED. NEMA 5-20R.
21	RECEPTACLE, DUPLEX, SWITCHED, RECESSED. NEMA 5-20R.
22	RECEPTACLE, QUADRUPLEX. NEMA 5-20R.
23	RECEPTACLE, QUADRUPLEX ON EMERGENCY POWER. NEMA 5-20R.
24	RECEPTACLE, QUADRUPLEX, HOSPITAL GRADE. NEMA 5-20R.
25	RECEPTACLE, QUADRUPLEX, HOSPITAL GRADE ON EMERGENCY POWER. NEMA 5-20R.
26	RECEPTACLE, QUADRUPLEX, CONNECTED TO UPS. NEMA 5-20R.
27	RECEPTACLE, QUADRUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER. NEMA 5-20R.
28	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
29	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
30	RECEPTACLE, DRYER. NEMA 14-30R.
31	RECEPTACLE, RANGE. NEMA 14-50R.
32	RECEPTACLE, CLOCK HANGER. NEMA 5-15R.
33	MULTI-OUTLET ASSEMBLY. NEMA 5-20R.
34	DROP CORD. SEE DETAIL.
35	THERMOSTAT.
36	FLUSH FLOOR BOX. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
37	POWER POLE. "P" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
38	FLUSH FIRE RATED POKE THRU. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
39	SWITCH, DIMMER.
40	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
41	SWITCH, DOUBLE POLE ("X" INDICATES FIXTURES CONTROLLED).
42	SWITCH, THREE-WAY ("X" INDICATES FIXTURES CONTROLLED).
43	SWITCH, FOUR-WAY ("X" INDICATES FIXTURES CONTROLLED).
44	SWITCH, DOOR.
45	SWITCH, KEY OPERATED.
46	SWITCH, LOW VOLTAGE MASTER.
47	SWITCH, MOMENTARY.
48	SWITCH, OCCUPANCY SENSOR.
49	SWITCH, PILOT LIGHT.
50	SWITCH, TIMER OPERATED.
51	SWITCH, WEATHERPROOF.
52	RECEPTACLE, DUPLEX, TAMPER RESISTANT. NEMA 5-20R.
53	RECEPTACLE, QUADRUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE. NEMA 5-20R.
54	RECEPTACLE, QUADRUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER. NEMA 5-20R.
55	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, CONNECTED TO UPS. NEMA 5-20R.
56	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
57	RECEPTACLE, DUPLEX, RECESSED. NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
58	RECEPTACLE, QUADRUPLEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
59	INDICATES A RECEPTACLE IS AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
SITE ELECTRICAL AND COMMUNICATIONS UTILITIES	
01	ELECTRIC LINE; THIN LINE. 10 = SINGLE PHASE, 2Ø = 2-PHASE, 3Ø = 3-PHASE, Ø = OVERHEAD, U = UNDERGROUND, P = PRIMARY, S = SECONDARY
02	LIGHTNING ARRESTOR.
03	UTILITY POLE.
04	UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.
05	UTILITY, PRIMARY ELECTRICAL HAND HOLE.
06	UTILITY SERVICES, MANHOLE.
07	UTILITY, COMMUNICATIONS MANHOLE.
08	UTILITY, ELECTRICAL MANHOLE.
09	UTILITY, TELEPHONE MANHOLE.
10	PRECAST CONCRETE, COMMUNICATION VAULT.
11	PRECAST CONCRETE, ELECTRICAL VAULT.
12	PRECAST CONCRETE, TELEPHONE VAULT.
13	PRECAST CONCRETE, MANHOLE, TRANSFORMER VAULT.
14	PRECAST CONCRETE, TRANSFORMER PAD.
15	HAND HOLE.
16	SUBSTATION.
17	TRANSFORMER.
ELECTRICAL POWER AND DISTRIBUTION	
01	FUSE WITH RATING (ONE-LINE DIAGRAM).
02	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
03	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
04	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
05	OVERLOAD RELAY (ONE-LINE DIAGRAM).
06	STARTER (ONE-LINE DIAGRAM).
07	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
08	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
09	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
10	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
11	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
12	MOTOR.
13	COMBINATION RESIDENTIAL EXHAUST FAN/LIGHT.
14	EXHAUST FAN OUTLET.
15	HEATER, ELECTRIC RESISTANCE.
16	TRANSFORMER (ONE-LINE DIAGRAM).
17	TRANSFORMER, CURRENT (ONE-LINE DIAGRAM).
18	BATTERY (ONE-LINE DIAGRAM).
19	CAPACITOR (ONE-LINE DIAGRAM).
20	DELTA CONNECTION (ONE-LINE DIAGRAM).
21	WYE CONNECTION (ONE-LINE DIAGRAM).
22	PANELBOARD (ONE-LINE DIAGRAM).
23	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
24	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
25	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
26	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
01	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
02	TRANSFER SWITCH (ONE-LINE DIAGRAM).
03	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
04	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
05	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
06	GENERATOR, POWER (ONE-LINE DIAGRAM).
07	METER.
08	BROAD BAND FILTER (ONE-LINE DIAGRAM).
09	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
10	DIODE (ONE-LINE DIAGRAM).
11	AERIAL SERVICE WEATHER HEAD (ONE-LINE DIAGRAM).
12	DISCONNECT SWITCH, FUSED.
13	DISCONNECT SWITCH, UNFUSED.
14	STARTER, COMBINATION WITH DISCONNECT SWITCH.
15	STARTER OR MOTOR CONTROLLER.
16	PUSHBUTTON.
17	PUSHBUTTONS, MOTOR CONTROL.
18	PANELBOARD CABINET, FLUSH MOUNTED.
19	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
20	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
21	DISTRIBUTION PANEL OR SWITCHBOARD.
22	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
23	LIGHTING CONTROL STATION.
24	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
25	CENTRAL PROCESSOR UNIT.
26	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
27	TRANSFORMER. NUMBER INDICATES KVA.
28	BUSWAY.
29	DUCT, TROLLEY.
30	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
31	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).
32	PUSHBUTTON, NORMALLY CLOSED (ONE-LINE DIAGRAM).
33	PUSHBUTTON, NORMALLY OPEN (ONE-LINE DIAGRAM).
34	PRESSURE SWITCH, CLOSE ON INCREASE (ONE-LINE DIAGRAM).
35	PRESSURE SWITCH, OPEN ON INCREASE (ONE-LINE DIAGRAM).
36	SWITCH, NORMALLY CLOSED FLOAT (ONE-LINE DIAGRAM).
37	SWITCH, NORMALLY OPEN FLOAT (ONE-LINE DIAGRAM).
38	SWITCH, NORMALLY CLOSED LIMIT (ONE-LINE DIAGRAM).
39	SWITCH, NORMALLY OPEN LIMIT (ONE-LINE DIAGRAM).
40	SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED (ONE-LINE DIAGRAM).
41	SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED (ONE-LINE DIAGRAM).
42	SWITCH, NORMALLY CLOSED TIME DELAY (ONE-LINE DIAGRAM).
43	SWITCH, NORMALLY OPEN TIME DELAY (ONE-LINE DIAGRAM).
44	SWITCH, NORMALLY CLOSED FOOT OPERATED (ONE-LINE DIAGRAM).
45	SWITCH, MULTIPOSITION (ONE-LINE DIAGRAM).
46	SWITCH, SINGLE BREAK (ONE-LINE DIAGRAM).
47	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
48	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
49	CIRCUIT BREAKER, DRAW OUT (ONE-LINE DIAGRAM).
50	GENERATOR ENGINE START MONITORING SYSTEM GENERATOR MODULE (ONE-LINE DIAGRAM).
51	GENERATOR ENGINE START MONITORING SYSTEM ATS MODULE (ONE-LINE DIAGRAM).
52	PHASE ROTATION MONITOR (ONE-LINE DIAGRAM).

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

IP	SINGLE POLE	KV	KILOVOLT
IPH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2IC	TWO-CONDUCTOR	KW	KILOWATT
2WAY	TWO-WAY	KWH	KILOWATT HOUR
3IC	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3WAY	THREE-WAY	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
4OUT	QUADRUPLE RECEPTACLE	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4PDT	FOUR-POLE DOUBLE THROW	LPS	LOW PRESSURE SODIUM
4PT	FOUR-POLE SINGLE THROW	LRA	LOCKED ROTOR AMPS
4W	FOUR-WIRE	LTG	LIGHT TIGHT
4WAY	FOUR-WAY	LV	LOW VOLTAGE
A	ABOVE COUNTER	MATV	MASTER ANTENNA TELEVISION SYSTEM
AC	ARMORED CABLE	MAX	MAXIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIUM CLAD
ADJ	ADJACENT	MCC	MINIMUM CIRCUIT AMPS
AFF	ABOVE FINISHED FLOOR	MCCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AIC	AMPERE INTERRUPTING CAPACITY	MCP	MOTOR CIRCUIT PROTECTION
ALUM	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL
AMP	AMPERE	MG	MOTOR GENERATOR
ANN	ANNUNCIATOR	MH	MINIMUM
AP	ACCESS POINT (WIRELESS DATA)	MIN	MINIMUM
AR	AS REQUIRED	MLO	MAIN LUGS ONLY
ASC	AMPS SHORT CIRCUIT PROTECTION	MOCP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO VISUAL	NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAGE	NC	NORMALLY CLOSED
BB	BUCK-BOOST TRANSFORMER	NEC	NATIONAL ELECTRICAL CODE
BFMR	CILING MOUNTED COMMUNITY ANTEENNA TELEVISION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTEENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/OWNER INSTALLED	OC	OVER CURRENT
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	OCP	OWNER FURNISHED/OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OF/OFI	OWNER FURNISHED/OWNER INSTALLED
CKT	CIRCUIT	OP	OBTAIN FROM PLANS
CM	CONSTRUCTION MANAGER	OR	OVERLOAD (COILING) DOOR
CND	CONDUIT	OL	OVERLOAD
CO	CONVENIENCE OUTLET	PF	PUSHBUTTON
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PH	POWER FACTOR
CP	CONTROL PANEL	PNL	PANEL
CT	CURRENT TRANSFORMER	PT	POTENTIAL TRANSFORMER
CTV	CABLE TELEVISION	PTZ	PAN/TILT/ZOOM
CU	COPPER	QTY	QUANTITY
dB	UNIT OF SOUND LEVEL	R	REMOVE
DPOT	DOUBLE POLE, DOUBLE THROW	RCP	REFLECTED CEILING PLAN
DS	DISCONNECT SWITCH	RMC	RIGID METAL CONDUIT
EA	EACH	RNC	RIGID NONMETALLIC CONDUIT
EM	EMERGENCY	RPM	REVOLUTIONS PER MINUTE
EMT	ELECTRICAL METALLIC TUBING	RR	REMOVE AND RELOCATE
ENT	ELECTRIC NONMETALLIC TUBING	S	START/STOP
EPO	EMERGENCY POWER OFF EQUIPMENT	SCA	SHORT CIRCUIT AMPS
EX	EXISTING	SCB	STANDARD COLOR AS SELECTED BY ARCHITECT
F	FURNITURE MOUNTED	SF	SQUARE FOOT (FEET)
FA	FIRE ALARM	SFB	SQUARE FOOT (FEET) SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SPD	SURGE PROTECTIVE DEVICE
FLA	FULL LOAD AMPS	SPDT	SINGLE POLE, DOUBLE THROW
FMC	FLEXIBLE METAL CONDUIT	SPFC	SINGLE POLE, SINGLE THROW
FRE	FREIGHT ON BOARD	SPST	SINGLE POLE, SINGLE THROW
FVNR	FULL VOLTAGE NON-REVERSING	ST	SINGLE THROW
FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
GEN	GENERATOR	SWGR	SWITCHGEAR
GFCI	GROUND FAULT INTERRUPTER	TL	TWIST LOCK
GFP	GROUND FAULT PROTECTION GROUND	TP	TELEPHONE POLE
GND	GROUND	TP	TWISTED PAIR
HD	HEAVY DUTY	TIB	TELEPHONE TERMINAL BOARD
HI	HIGH INTENSITY DISCHARGE	TV	TELEVISION
HOA	HAND-OFF-AUTOMATIC SUPPRESSER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HP	HORSE POWER	TYP	TYPICAL
HPF	HIGH POWER FACTOR	UF	UNDERFLOOR
HPS	HIGH PRESSURE SODIUM	UGND	UNDERGROUND
HV	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HZ	HERTZ	V	VOLTS
IO	INPUT OUTPUT	V	VOLTS
IG	ISOLATED GROUND	VVA	VOLT AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VFC	VARIABLE FREQUENCY MOTOR CONTROLLER
INIS	INSULATED/ ISOLATED (INFARED)	W	WITH
IR	INFARED	WO	WITHOUT
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
		XFMR	TRANSFORMER

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN," "NOTED," "SCHEDULED," AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED," "REQUESTED," "AUTHORIZED," "SELECTED," "APPROVED," "REQUIRED," AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER," "REQUESTED BY THE ENGINEER," AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED," WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00 LIGHTING	
01 (W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
02 (W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
03 EM	EMERGENCY.
04 NL	NIGHT LIGHT: DO NOT SWITCH.
05 ↑	EGRESS DIRECTION ARROW (EXIT SIGNS).
06 LV	LOW VOLTAGE LIGHTING TRANSFORMER.
07 ☉	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
08 ☉	EXIT SIGN: SINGLE FACE; WALL MOUNTED
09 ☉	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
10 ☉	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
00 LIGHTING CONTROL	
01 ※	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
02 ※	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
03 ☉	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
04 ※ U	OCCUPANCY SENSOR, ULTRASONIC, OMNI-DIRECTIONAL, CEILING.
05 (R)	OCCUPANCY SENSOR CONTROL RELAY.
06 ※	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
07 ※	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
08 (P)	PHOTOCELL.
09 TC	TIME CLOCK.
10 HR 1	HOUSE RELAY SCHEDULE INDICATOR.
11 T01 T-1-1	LITE TOUCH STATION INDICATOR.
12 ☼	CEILING FAN.
13 SP	OCCUPANCY SENSOR, SWITCH PACK.
14 ⚡	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
15 ⚡	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
16 ⚡	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
17 ⚡	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
18 a,b	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
19 DC	DIGITAL LIGHTING DIMMING CONTROLLER
20 LC	DIGITAL PLUG LOAD CONTROLLER
21 LS	LIGHTING NETWORK SWITCH.
22 NR	LIGHTING NETWORK ROUTER.
23 RC	DIGITAL LIGHTING ROOM CONTROLLER
25 SM	LIGHTING NETWORK SEGMENT MANAGER
26 X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.
00 STRUCTURED CABLING	
01 ∇ X	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
02 (WAP)	DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE
03 ∇ W	TELEPHONE, WALL MOUNTED: WALL PHONE.
04 ∇ X	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
05 ∇	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA COMMUNICATION
06 ∇	TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC, WALL MOUNTED IN RECESSED BOX.
07	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
08	LAN RACK, FLOOR STANDING.
09 D	DATA CABLE, CATEGORY 6A (ONE-LINE DIAGRAM).
10 V	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).
00 STRUCTURED CABLING IHC	
01 ∇	IHC COMMUNICATIONS DEVICE (1 DATA).
02 ∇	IHC COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG).
03 ∇	IHC COMMUNICATIONS DEVICE (1 DATA WALL PHONE).
04 ∇	IHC COMMUNICATIONS DEVICE (2 DATA).
05 ∇ 3	IHC COMMUNICATIONS DEVICE (3 DATA).
06 ∇ 4	IHC COMMUNICATIONS DEVICE (4 DATA).
07 ∇ 6	IHC COMMUNICATIONS DEVICE (6 DATA).
08 ∇ M	IHC COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR (1 DATA).
09 ∇ WAP	IHC COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2 DATA).

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00 FIRE ALARM	
01 FSA	FIRE SYSTEM ANNUNCIATOR.
02 FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
03 FPS	FIRE ALARM NOTIFICATION POWER SUPPLY.
04 FTR	FIRE ALARM TRANSPONDER OR TRANSMITTER.
05 HVA	SMOKE CONTROL PANEL.
06 C	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
07 CM	CONTROL MODULE.
08 MM	MONITOR MODULE.
09 P	FIRE ALARM MANUAL PULL STATION.
10 R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
11 ☉	MAGNETIC DOOR HOLDER.
12 I _A	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, ACCESSIBLE.
13 I _H	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, HANDSET.
14 I _J	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, JACK.
15 ?	DETECTOR, SMOKE.
16 ? A	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
17 ? BR	DETECTOR, SMOKE, BEAM RECEIVER.
18 ? BT	DETECTOR, SMOKE, BEAM TRANSMITTER.
19 ? E	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
20 ? G	DETECTOR, SMOKE WITH GUARD.
21 ? R	DETECTOR, SMOKE, RESIDENTIAL.
22 ?	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
23 ?	DETECTOR, HEAT.
24 ☼	INDICATOR LAMP.
25 ⚡	STROBE.
26 ⚡ 75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
27 ⚡ WP	ALARM, HORN/SPEAKER, WEATHERPROOF.
28 ⚡	ALARM, HORN/STROBE, ONE ASSEMBLY.
29 ⚡ 75	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
30 ⚡ C	ALARM, CHIME/STROBE, ONE ASSEMBLY.
31 ⚡ G	ALARM, HORN/STROBE WITH GUARD, ONE ASSEMBLY.
32 ⚡ M	ALARM, MINI HORN/STROBE, ONE ASSEMBLY.
33 E	SPEAKER, EVACUATION.
34 E	SPEAKER, EVACUATION, COMBINATION STROBE.
35 ⚡	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
36 ⚡	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
37 SD	SMOKE DAMPER.
38 FSD	FIRE AND SMOKE DAMPER.
39 G	BELL (GONG).
40 CO	DETECTOR, CARBON MONOXIDE.
41 ?	DETECTOR, SMOKE/STROBE, RESIDENTIAL.
42 ⚡ 75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
43 ⚡ 75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
44 ⚡ 75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00 TECHNOLOGY SYSTEMS	
01	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS. EXAMPLES: C = CONTROL CABLE, 10 AWG, 1 CONDUCTOR, GREEN G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN M = INSULATED MICROPHONE CABLE S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
02 S _#	SPEAKER, CEILING MOUNTED.
03 H S _#	SPEAKER, WALL MOUNTED.
04 S ₄	SPEAKER, 4".
05 S ₆	SPEAKER, 6".
06 S ₈	SPEAKER, 8".
07 S ₁₂	SPEAKER, 12".
08 S _B	SPEAKER, BLIND MOUNT.
09 S _E	SPEAKER, EXISTING.
10 S _H	HORN.
11 S _{HW}	HORN, WEATHER RESISTANT.
12 S _M	SPEAKER, MASKING.
13 S _R	SPEAKER, RECESSED.
14 S _S	SPEAKER, SURFACE.
15 S _U	SPEAKER, USER DEFINED.
16 S _H	SPEAKER, HIGH FREQUENCY.
17 S _L	SPEAKER, LOW FREQUENCY.
18 S _E	SPEAKER ENCLOSURE (CLUSTER).
19 X	CALL SWITCH, INTERCOM.
20 M	MICROPHONE, TABLE OR LECTERN MOUNTED.
21 C	EQUIPMENT CABINET.
22 M	MEDIA CONNECTION PLATE.
23 A	AUDIO/VISUAL OUTLET.
24 S	SCREEN, PROJECTION, CEILING MOUNTED.
25 P	PROJECTOR, CEILING MOUNTED.
26 V	VIDEO CONFERENCING CAMERA.
27 CP	CONTROL PANEL.
28 M	MICROPHONE INPUT.
29 M	MICROPHONE INPUT, FLOOR MOUNTED.
30 R	REMOTE CONTROL INPUT.
31 S	POWER SWITCH.
32 S	SPEAKER SWITCH OR INPUT.
33 SV	SOURCE SWITCH/VOLUME CONTROL.
34 T	TAPE RECORD OUTPUT.
35 V	VOLUME CONTROL.
36 HC	HUB CABINET.
37 M	VIDEO MONITOR.
38 ADA	AUDIO DISTRIBUTION AMPLIFIER.
39 APP	AUDIO PATCH PANEL.
40 CPH	CONNECTION PANEL.
41 DVD	DIGITAL VERSATILE DISC (DVD) PLAYER.
42 EP	ASSISTED LISTENING EMITTER PANEL.
43 K	SIGNAL RELAY DPDT WITH SOCKET.
44 LD	LINE DRIVER (VARIZONE DIGITAL PAGING SYSTEM).
45 PAM	POWER AMP MODULE (VARIZONE DIGITAL PAGING SYSTEM).
46 RDA	RGBHV DISTRIBUTION AMPLIFIER.
47 RM	REMOTE CONTROL PANEL.
48 RMS	RGBHV MATRIX SWITCHER.
49 TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, AC LINE CONDITIONER.
50 VCR	VIDEO CASSETTE RECORDER.
51 VDA	COMPOSITE VIDEO DISTRIBUTION AMPLIFIER.
52 VMS	COMPOSITE VIDEO MATRIX SWITCHER.
53 VPP	VIDEO PATCH PANEL.
54 YMS	S-VIDEO MATRIX SWITCHER.
55 PA	AMPLIFIER (ONE-LINE DIAGRAM).
56 PB	POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM).
57 W	TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM).
58 D	DIODE (ONE-LINE DIAGRAM).
59 IM	TRANSFORMER, ISOLATION/MATCHING (ONE-LINE DIAGRAM).
60 W	TRANSFORMER, # WATT (ONE-LINE DIAGRAM).
61 M	MICROPHONE, HANDHELD (ONE-LINE DIAGRAM).
62 A	AUXILIARY INPUT.
63 IR	INFRARED SENSOR.
64 CP	HDMI FEMALE RECEPTACLE. CONTRACTOR TO RUN HDMI CABLING BETWEEN HDMI RECEPTACLES IN A ROOM.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
00 CLOCK	
01 C	CLOCK.
02 C G	CLOCK, SURFACE WITH WIRE GUARD.
00 NURSE CALL	
01 J	JUNCTION BOX.
02 C	CORRIDOR LIGHT.
03 B	BATHROOM PULL CORD STATION.
04 D	DUTY STATION.
05 E	EMERGENCY ASSISTANCE CALL STATION.
06 E CB	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
07 P	PATIENT STATION.
08 S	STAFF STATION.
09 NCM	TOUCH SCREEN NURSE CALL MASTER STATION.
10 ZLC	ZONE LIGHT CONTROLLER.
11 CU	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
00 CCTV	
01 P	CCTV CABLE, POWER.
02 V	CCTV CABLE, VIDEO SIGNAL.
03 ECTV	CCTV HEADEND EQUIPMENT.
04 M	CCTV MONITOR.
05 P	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
06 PTZ	CCTV CAMERA WITH PAN, TILT AND ZOOM.
07 360°	PANNING CAMERA TRANSVERSE ANGLE.
00 SECURITY	
01 X	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
02 ACC	ACCESS CONTROL HEADEND EQUIPMENT.
03 CTR	SECURITY CONTROL PANEL.
04 SEC	INTRUSION DETECTION HEADEND EQUIPMENT.
05 #1	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
06 CR	CARD READER.
07 KCR	KEYPAD/CARD READER COMBINATION.
08 M	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
09 ER	EXIT REQUEST.
10 RL	REMOTE DOOR RELEASE BUTTON.
11 B	BELL.
12 BU	BUZZER.
13 BU	BUZZER, COMBINATION BELL.
14 V	SENSOR, BURIED VEHICULAR.
15 G	SENSOR, GLASS BREAK.
16 V	SENSOR, VOLUMETRIC.
17 CA	CONTROLLED ACCESS POINT.
18 IC	INTERCOM STATION.
19 IRU	DUAL TECHNOLOGY PASSIVE INFRARED SENSOR AND ULTRASONIC MOTION DETECTOR.
20 IR	PASSIVE INFRARED SENSOR.
21 P	PANIC DURESS SWITCH.
22 U	ULTRASONIC MOTION DETECTOR.
23 AP	ANNUNCIATOR PANEL.
24 MSI	MASTER STATION, INTERCOM.
00 TV DISTRIBUTION	
01 T	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
02 TR	TV DISTRIBUTION CABLE, TRUNK.
03 CMB	COMBINER.
04 DC	DIRECTIONAL COUPLER.
05 DA	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
06 SPL	SPLITTER (ONE-LINE DIAGRAM).
07 TV	TV OUTLET.
08 SA	SATELLITE ANTENNA.
09 TA	TV ANTENNA (ONE-LINE DIAGRAM).
10 W	TERMINATOR, 75 OHM (TV DISTRIBUTION).

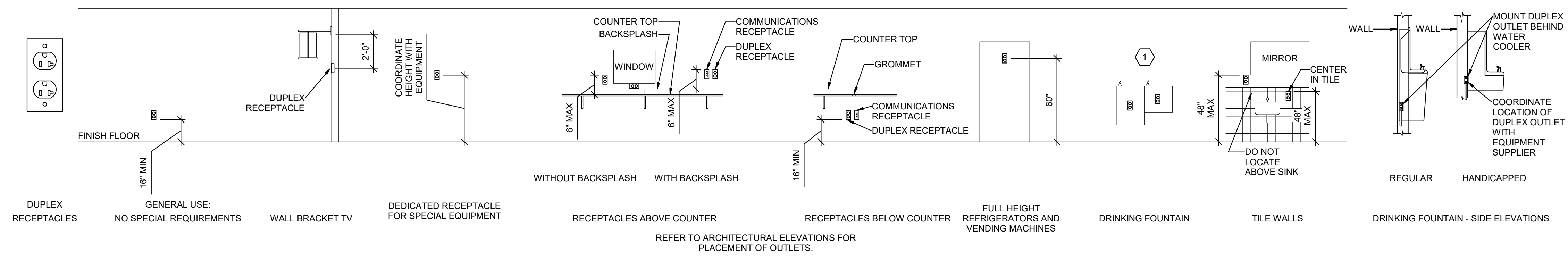


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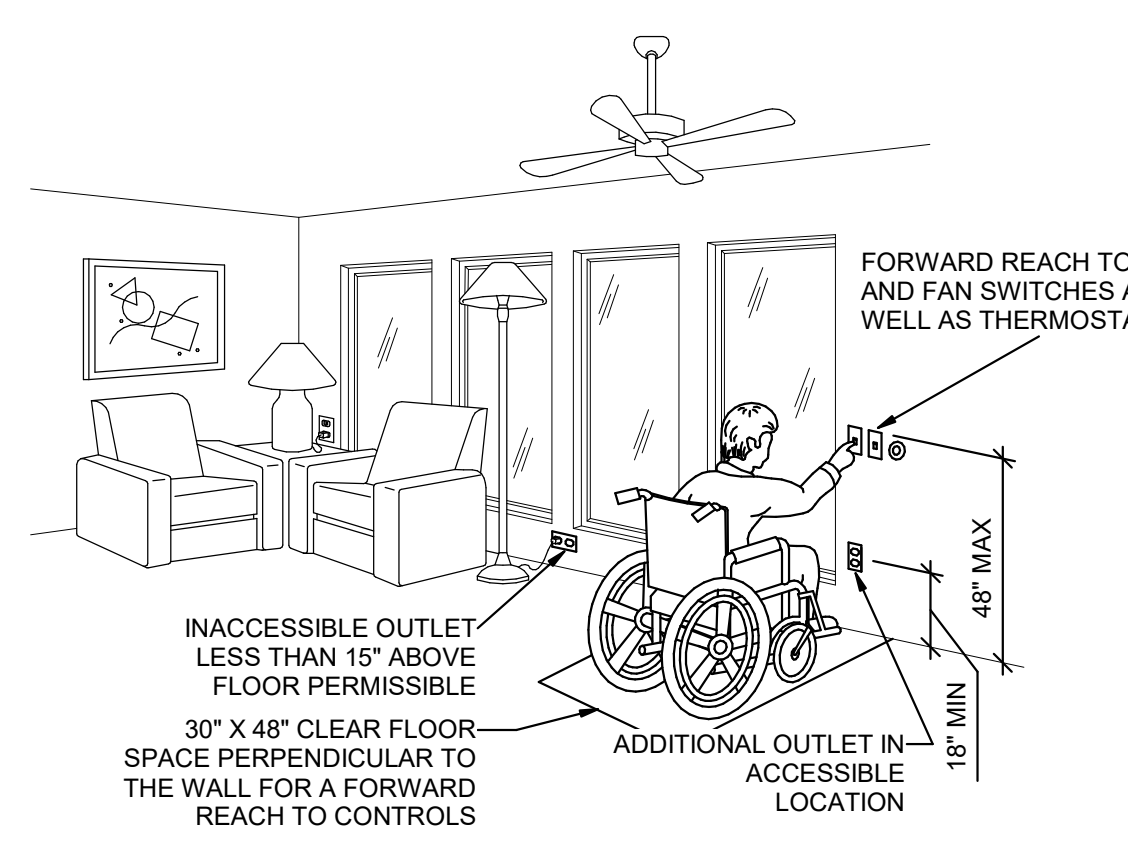
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 CLIENT NUMBER:
 DATE: 23 DECEMBER 2020

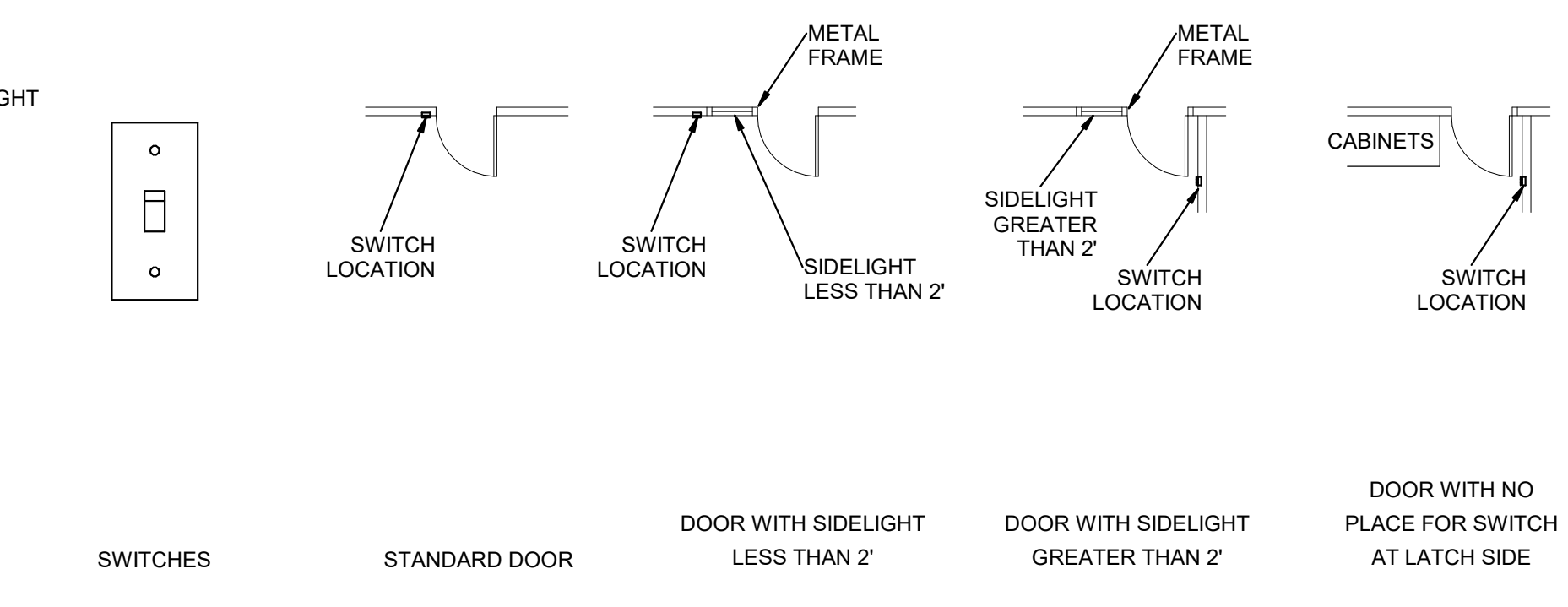
ALTA VIEW HOSPITAL - ACUTE REHABILITATION UNIT
 INTERMOUNTAIN HEALTHCARE
 9660 SOUTH 1300 EAST, SANDY, UT
 CONSTRUCTION DOCUMENTS



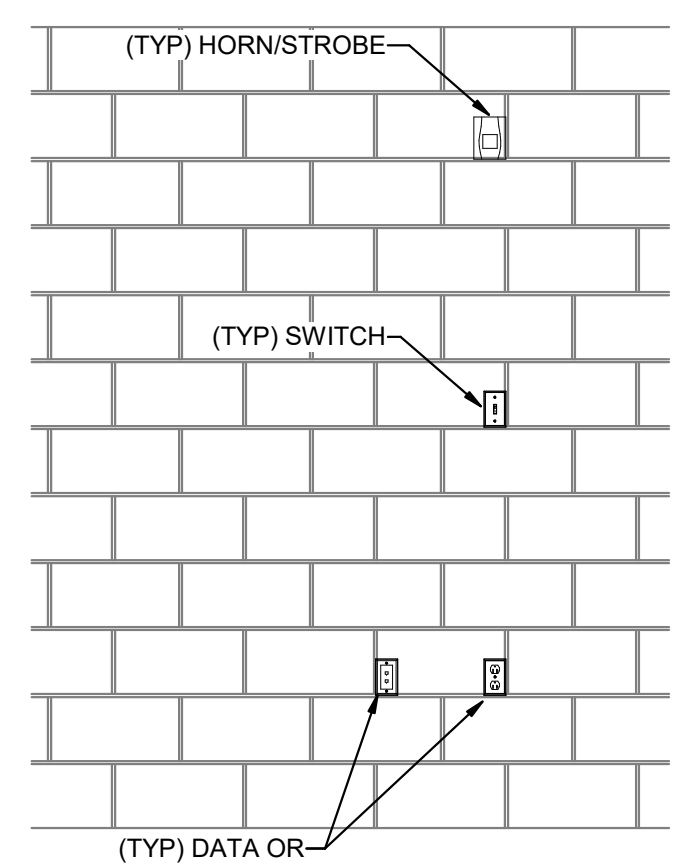
E2 RECEPTACLE MOUNTING DETAILS
SCALE: NTS



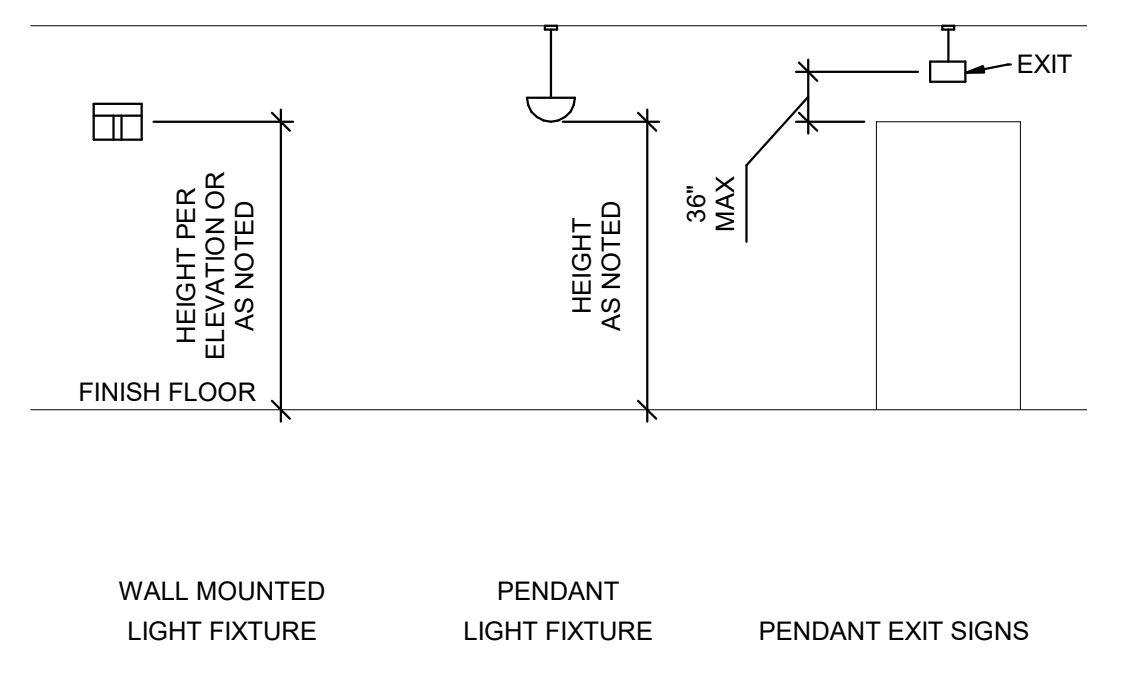
D2 ADA DETAIL
SCALE: NTS



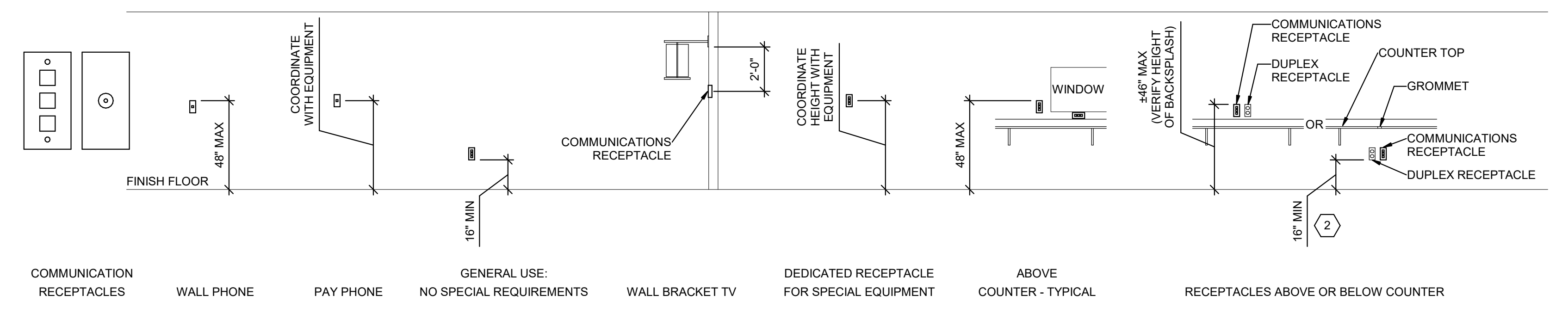
D3 SWITCH MOUNTING DETAILS
SCALE: NTS



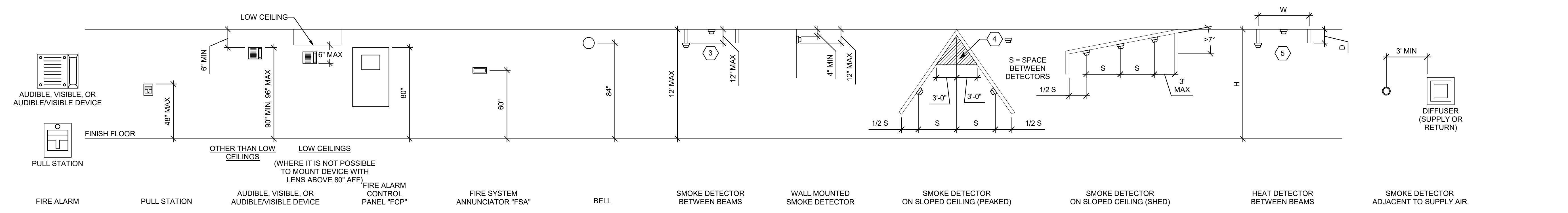
C1 CMU DEVICE MOUNTING ALIGNMENT DETAIL
SCALE: NTS



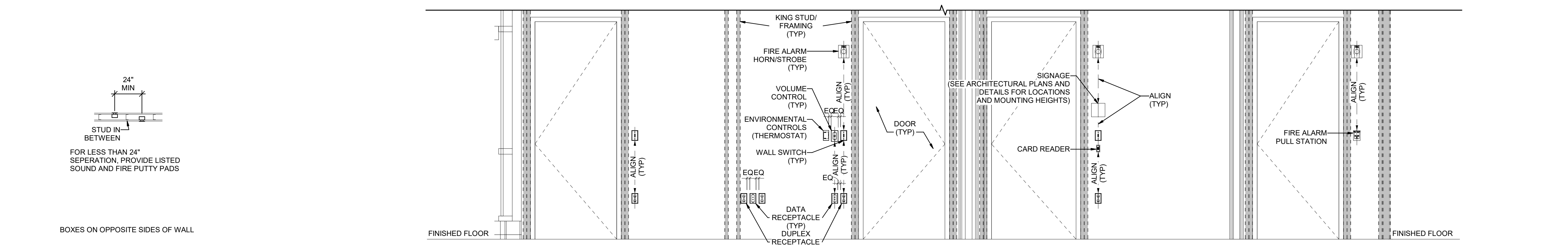
C2 LIGHTING MOUNTING DETAILS
SCALE: NTS



C3 COMMUNICATIONS MOUNTING DETAILS
SCALE: NTS



B1 FIRE ALARM MOUNTING DETAILS
SCALE: NTS



A1 BOX MOUNTING DETAILS
SCALE: NTS

A2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
SCALE: NTS

GENERAL SHEET NOTES

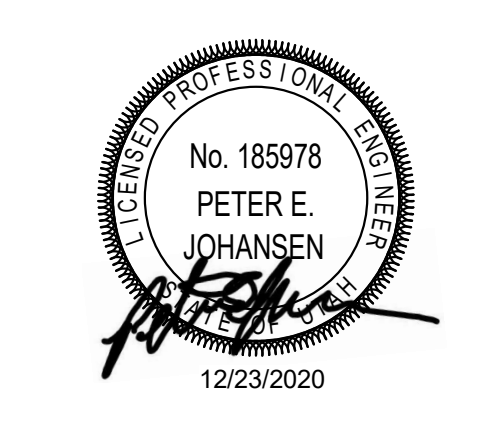
1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
2 - EQUIPMENT SHOP DRAWINGS.
3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTABLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTABLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTABLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTABLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. 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.

SHEET KEYNOTES

1. LOCATE RECEPTABLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY 5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4\"/>

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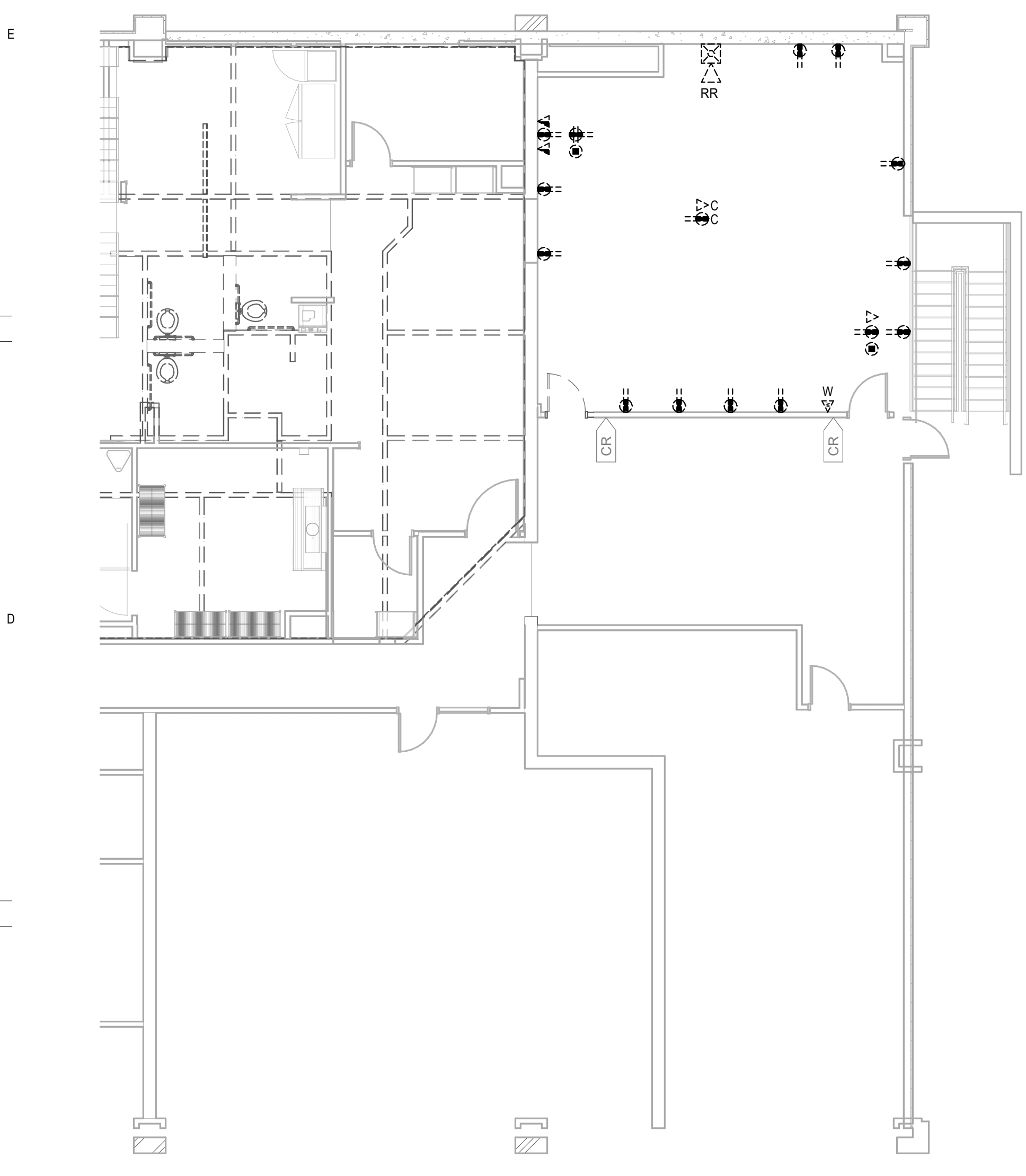
GENERAL SHEET NOTES

- 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.
- SALVAGE ALL LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- 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.
- PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 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.
- 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.
- 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.
- DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.
- DEMOLISH ALL WI-FI ACCESS POINTS WHETHER SHOWN ON DRAWINGS OR NOT WITHIN SCOPE OF WORK AREA.
- REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE.
- ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.
- ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

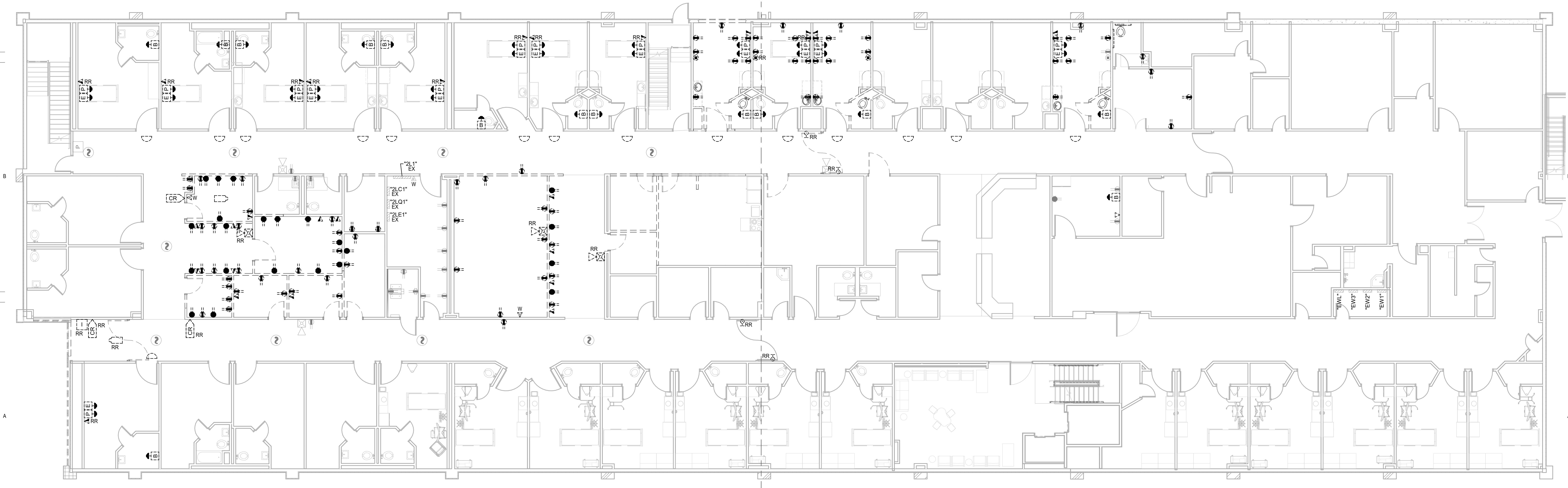
SHEET KEYNOTES

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C1 LEVEL 2 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



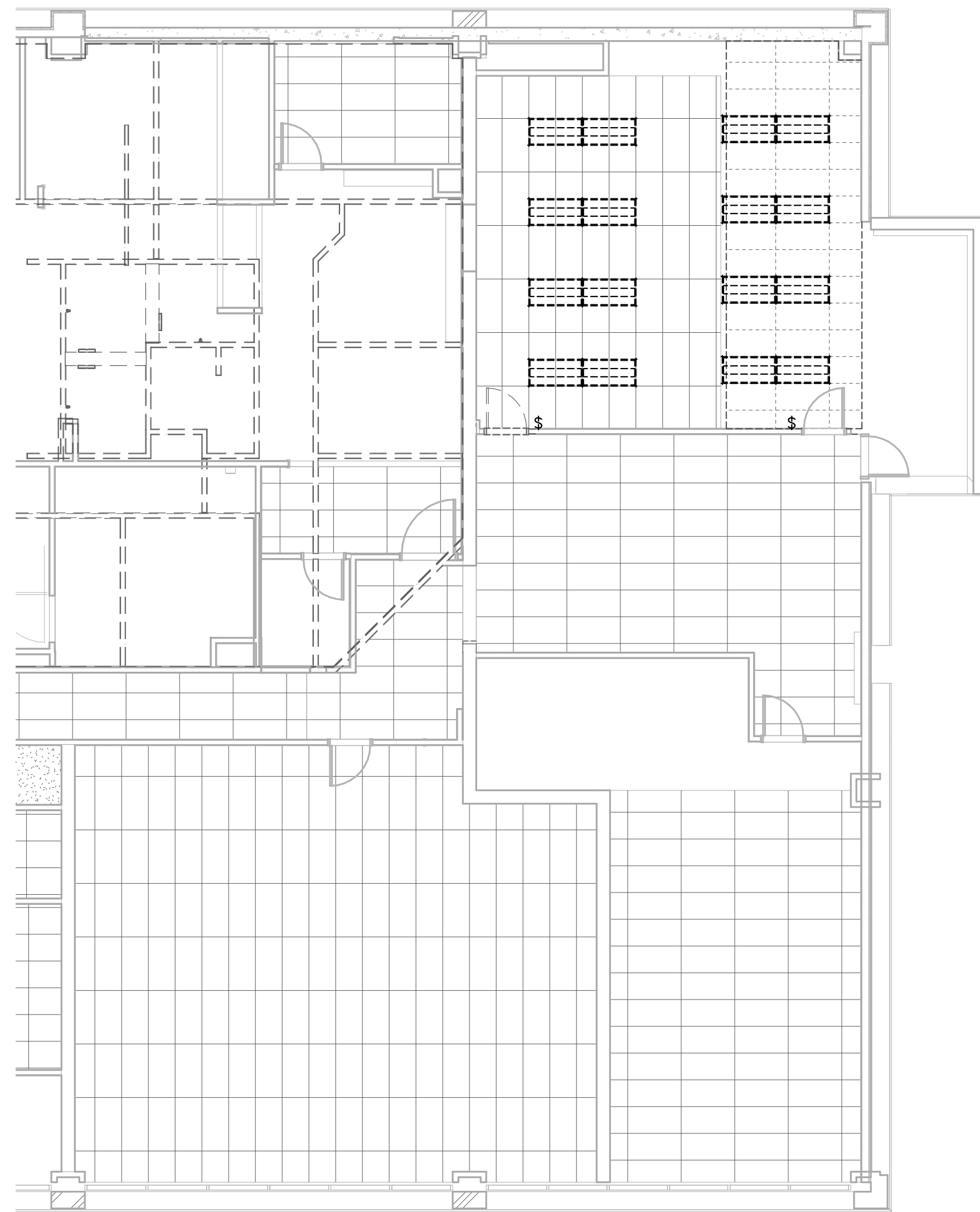
A1 LEVEL 1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

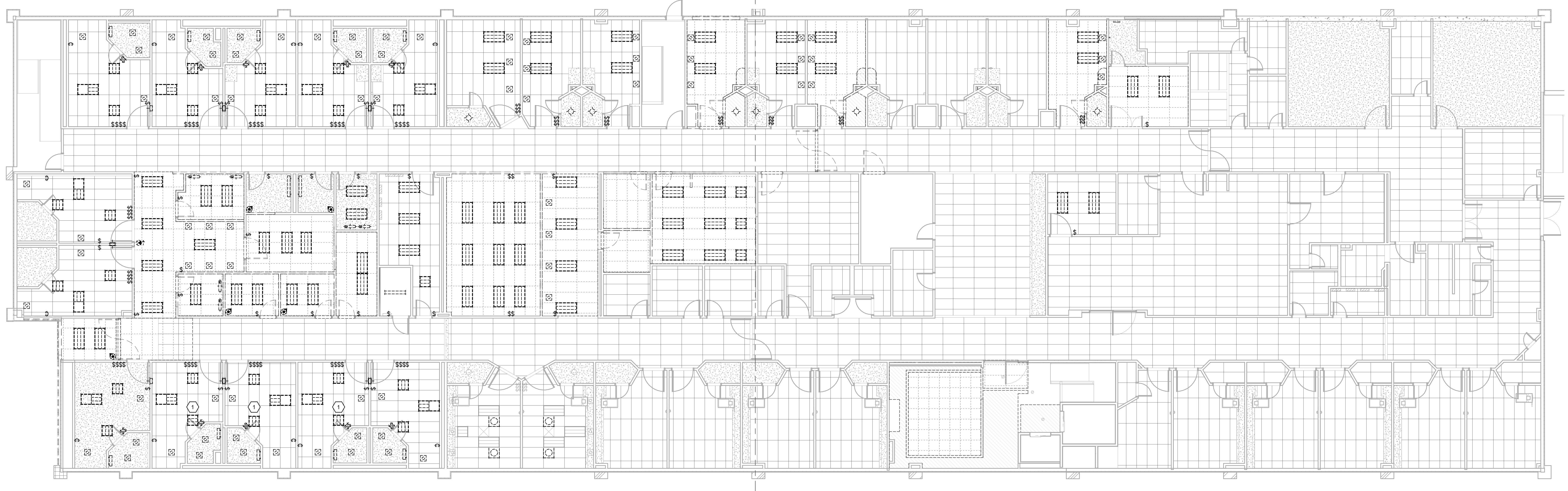
- 1 UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
- 2 SALVAGE ALL LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- 3 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.
- 4 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 5 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.
- 6 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.
- 7 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.
- 8 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- 9 REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.
- 10 DEMOLISH ALL WI-FI ACCESS POINTS WHETHER SHOWN ON DRAWINGS OR NOT WITHIN SCOPE OF WORK AREA.
- 11 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE.
- 12 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- 13 CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.
- 14 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

- 1 BID REPLACEMENT OF LIGHT FIXTURES IN THIS PATIENT ROOM AS PART OF ADD-ALTERNATE #01.



C1 LEVEL 2 CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



A1 LEVEL 1 CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- THE FOLLOWING FIXTURES WILL BE OWNER FURNISHED CONTRACTOR INSTALLED. (6)DX-23 (4" CANS), (14)NNFG-4, (3)NF-6, (5)UC-5, (5)G-1, (6)G-2, (1)G-1F, (1)WS-2 VANITY.

SHEET KEYNOTES

- CONNECT TO EXISTING CORRIDOR LIGHTING CIRCUIT.
- RE-CIRCUIT NEW PATIENT ROOM LIGHTS TO CIRCUITS THAT PREVIOUSLY FED ROOM.
- CONNECT AND CONTROL WITH CORRIDOR LIGHTS.
- PROVIDE CURBELL LVC-2000-004 LIGHTING CONTROLLER TO CONTROL THE FOLLOWING: (B) EXAM LIGHT IN PE-1, (C) READING LIGHT (ALSO CONTROLLED VIA PILLOW SPEAKER), (G) AMBIENT LIGHT IN PE-1. ALL OTHER SWITCHES IN ROOM WILL BE LINE VOLTAGE.
- RE-CIRCUIT TO EXISTING LIGHTING CIRCUIT FEEDING SPACE.
- PROVIDE FLANGE KIT FOR PE-2 PATIENT LIGHT.
- BID REPLACEMENT OF LIGHT IN THIS PATIENT ROOM AS PART OF ADD ALTERNATE #1.
- CIRCUIT EXTERIOR CANOPY LIGHTS TO 277 VOLT LIFE SAFETY PANEL LSHWCB AND LIGHTING CONTROL PANEL LXWB LOCATED IN BASEMENT ELECTRICAL ROOM DIRECTLY BELOW VESTIBULE. PROGRAM LIGHTS TO BE CONTROLLED VIA PHOTOCELL.



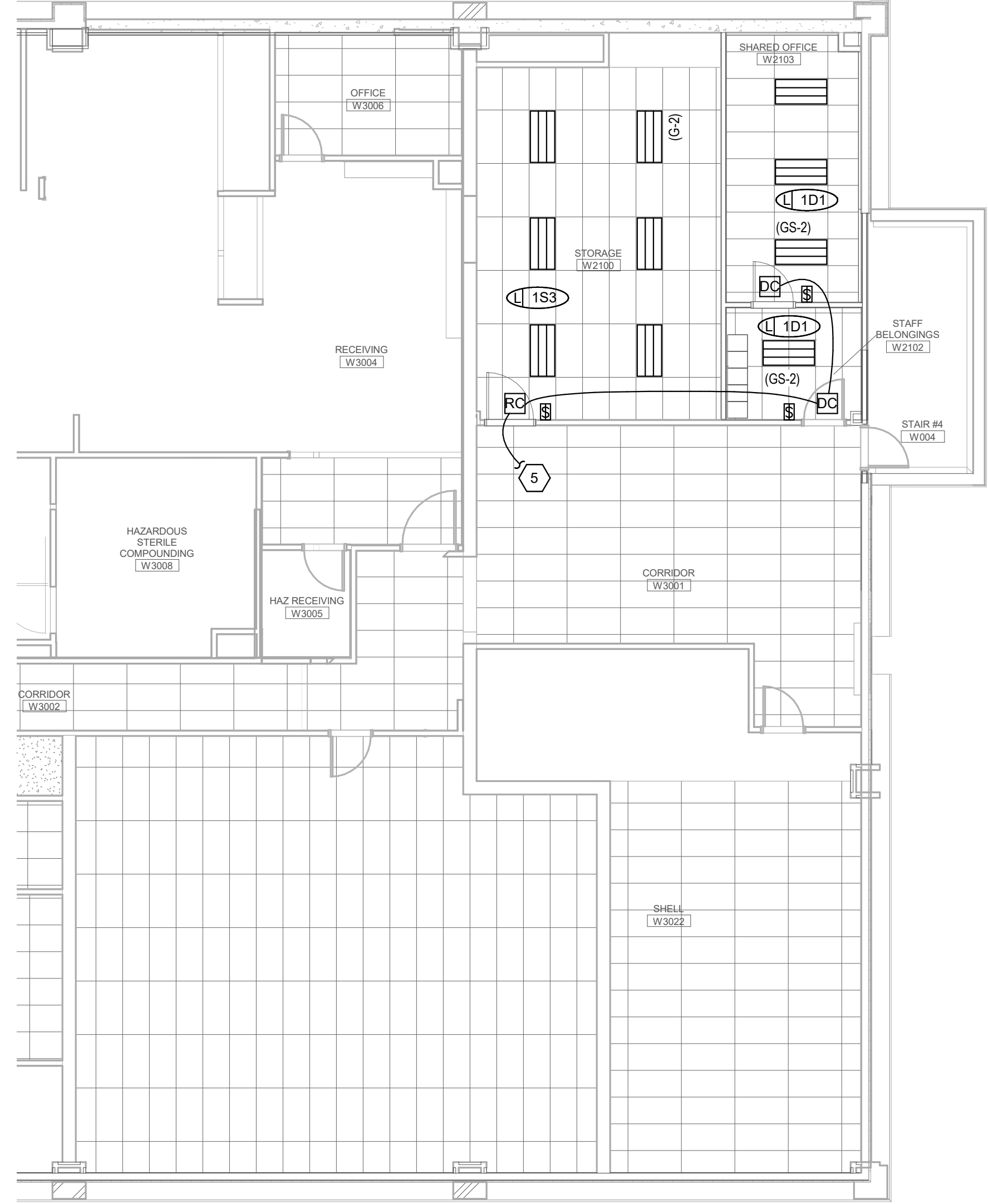
SPECTRUM ENGINEERS
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 Salt Lake City, UT 84111
 801-475-7077
 801-325-5151
 Fax: 801-325-5155
 www.spectrum-engineers.com

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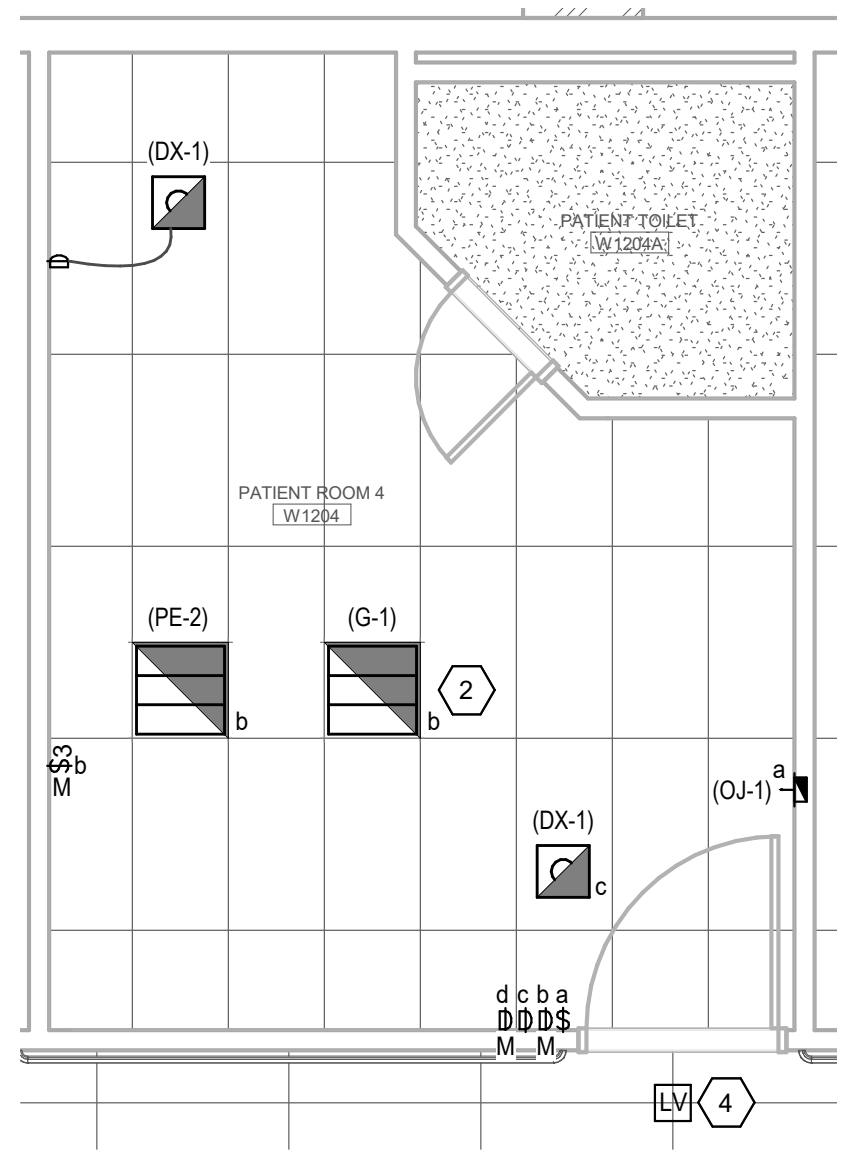
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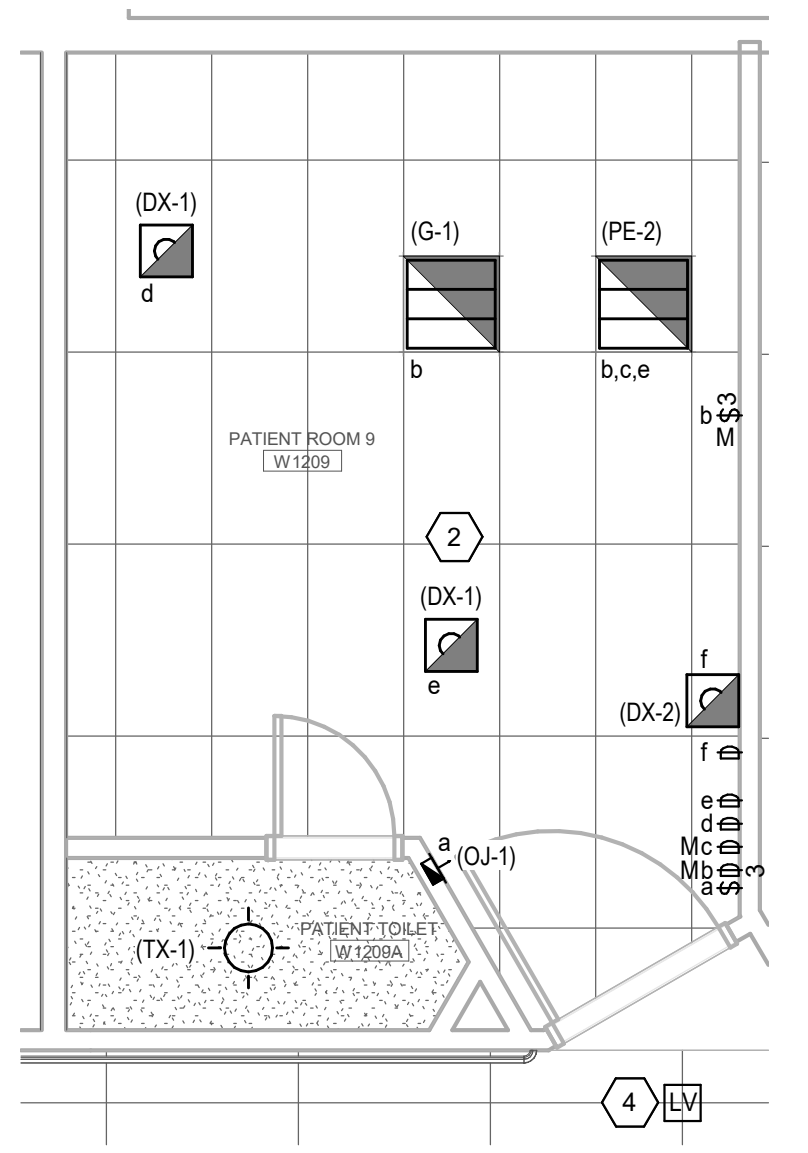
LIGHTING PLANS
EL-101



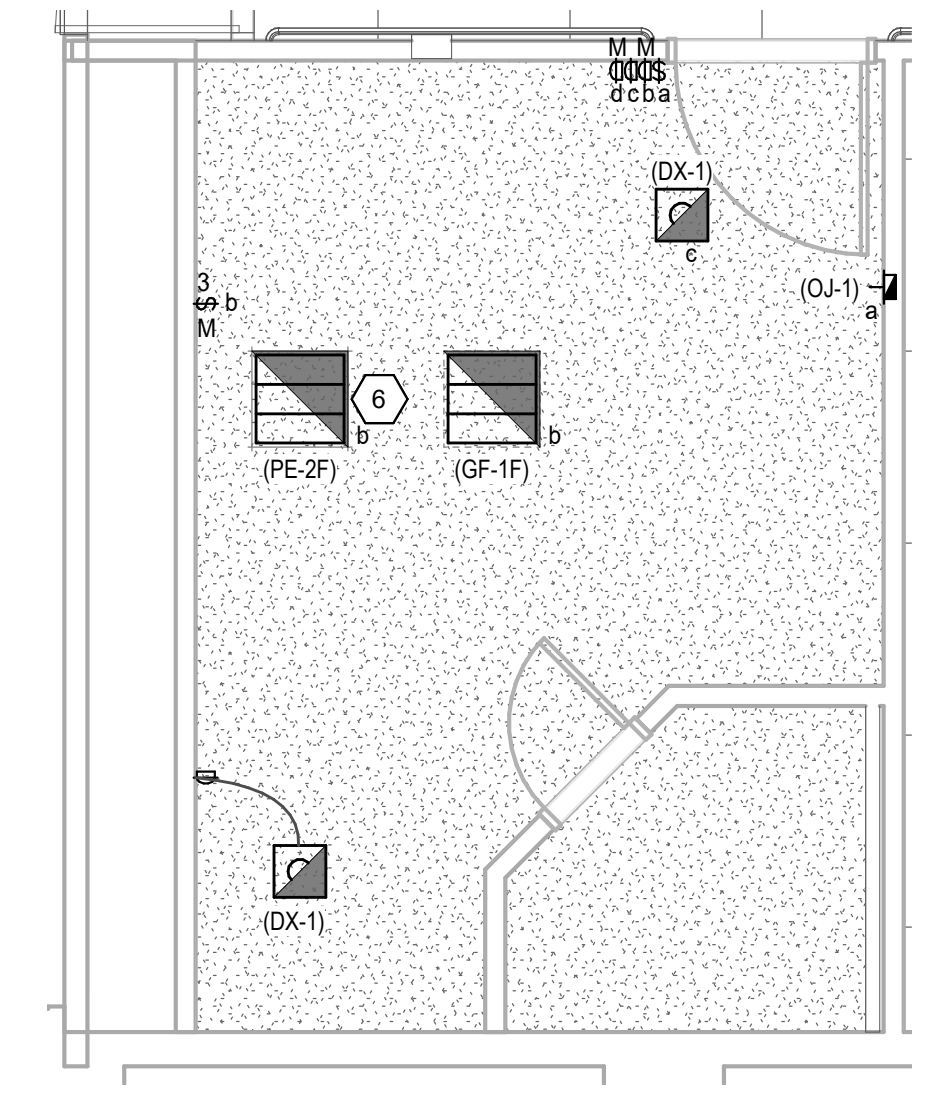
TYPICAL PATIENT ROOM LIGHTING PLAN 1
 (D3) SCALE: 1/4" = 1'-0"



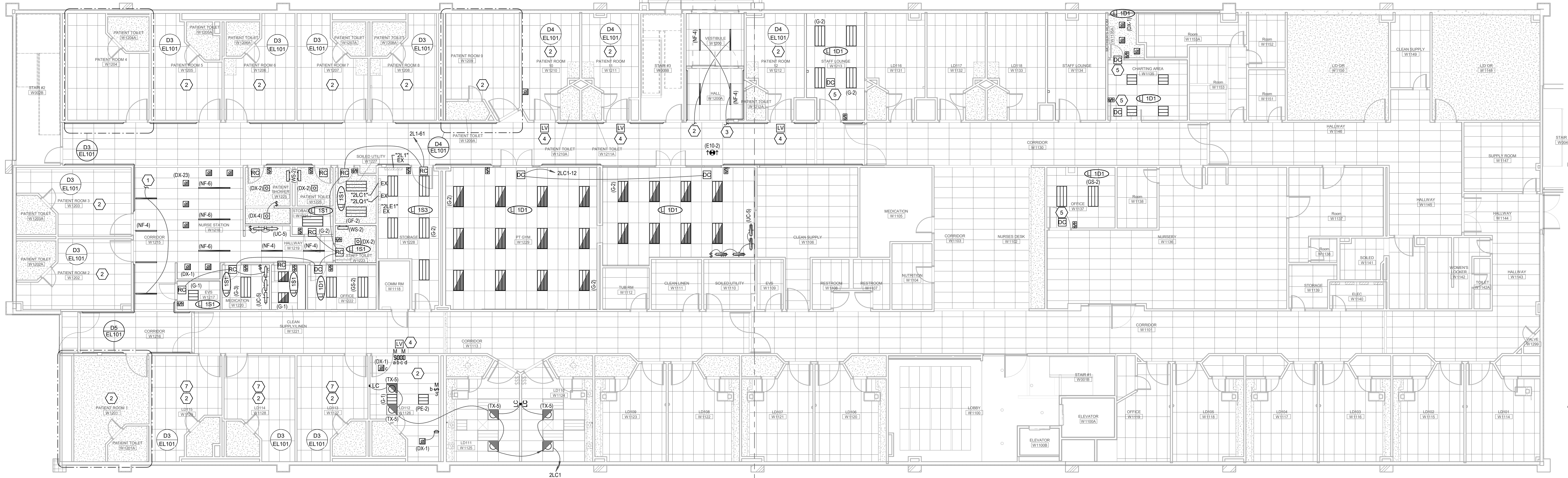
TYPICAL PATIENT ROOM LIGHTING PLAN 2
 (D4) SCALE: 1/4" = 1'-0"



TYPICAL ISOLATION PATIENT ROOM LIGHTING PLAN 1
 (D5) SCALE: 1/4" = 1'-0"



(C1) LEVEL 2 LIGHTING PLAN
 SCALE: 1/8" = 1'-0"



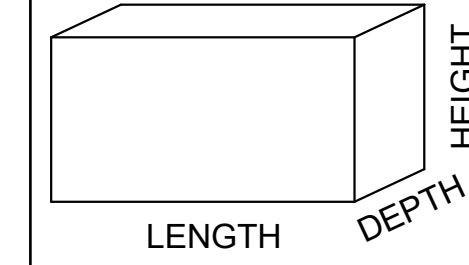
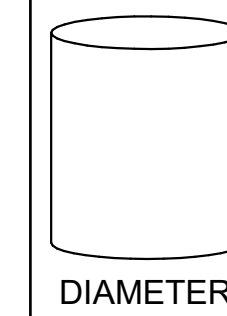
(A1) LEVEL 1 LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

INTERIOR LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS

MOUNTING

B - BASE
C - CEILING
F - FLANGE
G - GRID
P - PENDANT
PL - POLE
R - RECESSED
S - SURFACE
W - WALL



LUMINAIRE OPTIONS

ARHR - AIR RETURN AND HEAT REJECTION
DL - DAMP LOCATION
ECC - EARTHQUAKE CLIPS
F - FLUSH
HLD - HINGED AND LATCHED DOOR
HS - HOUSE SIDE SHIELD
PS - PHOTOCELL SWITCH
QRS - QUARTZ RESTRIKE
ST - STATIC
WS - WIRE GUARD
WL - WET LOCATION

FINISH

MW - MATTE WHITE
BL - BLACK
SL - SILVER
GL - GOLD
CL - CLEAR
PW - PAINTED WHITE
EA - EXTRUDED ALUMINUM
S - STEEL
GS - GALVANIZED STEEL
C - CAST
CBA - COLOR BY ARCHITECT
SCBA - STANDARD COLOR BY ARCHITECT
CCA - CUSTOM COLOR BY ARCHITECT
FB - MEETS FEDERAL STANDARD 209D
TP - THERMALLY PROTECTED
FL - FLUSH
R - REGRESS
M - MITERED

DIFFUSER/LENS

#A - ACRYLIC #THICK
#OA - ACRYLIC #THICK (OPAL)
GC - GLASS (CLEAR)
GO - GLASS (OPAL)
GF - GLASS (FROSTED)
SGL - SOFT GLOW LENS
HPL - HIGH PERFORMANCE LENS
DO - DROP OPAL
COL - CONVEX GLASS LENS
S - SATIN LENS

NOTES

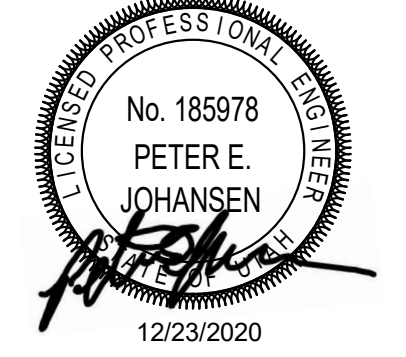
REFLECTOR

OP - NONE/OPEN
SP - SPECULAR
SS - SEMI-SPECULAR
D - DIFFUSE (WHITE ENAMEL)
SC - SPECULAR (COLORED)
PR - PRISMATIC
FDR - FULL DEPTH REFLECTOR
DS - DIFFUSE (SEMI SPECULAR) SILVER
LI - LOW RIDESCENT
IR - IRIDESCENT
SL - SILVER
GL - GOLD
CA - CLEAR ALZAK

GENERAL NOTES

1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
2. 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 PRIOR TO THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.
3. 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.
4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.

ID	DESCRIPTION	NOMINAL SIZE				MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	MANUFACTURER (CATALOG SERIES)			
		LENGTH	DEPTH	HEIGHT	DIAMETER/APERTURE														OPTION 1	OPTION 2	OPTION 3	
(DX-1)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0'-6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						GOTHAM (EVO-3515-6AR-WD-LSS-MVOLT-EZ10-TWR)	LITON (LHALD612C034UE-D10/ RALD6SWF160-B60-T35)	PORTFOLIO (LD6B15D010/EURB10208 035/6LBW2H-HB26)
(DX-2)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0'-6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	23	-	2000						GOTHAM (EVO-3520-6AR-WD-LSS-MVOLT-EZ10-TWR)	LITON (LHALD625C071-D10/ LRALD6SWF151-B60-T35)	PORTFOLIO (LD6B20D10/EURB10208 035/6LBW2H-HB26)
(DX-4)	6" ROUND, RECESSED LED SHOWER DOWNLIGHT, LENSED, WHITE TRIM FINISH	-	-	-	0'-6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						GOTHAM (EVO-3515-6DPR-MVOLT-EZ10-TWR)	HALO (PD615D010B/PPDM68835-64VDFWC)	INTENSE (SS6G3DR-L4-358-IC632-C)
(DX-23)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0'-6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						GOTHAM (EVO-3515-6AR-WD-LSS-MVOLT-EZ10-TWR)	LITON (LHALD612C034UE-D10/ RALD6SWF160-B60-T35)	PORTFOLIO (LD6B15D010/EURB10208 035/6LBW2H-HB26)
(E10-2)	EXIT SIGN, EDGE LIT LED ACRYLIC, DUAL FACE, GREEN LETTERING, BRUSHED ALUMINUM FINISH, UNIVERSAL MOUNTING	-	-	-	-	UNV	LED	GREEN		NO DIMMING		3	-	0			AC ONLY			DUAL-LITE (LECCGWA)	EVENLITE (TEX-AC-G-2M)	CHLORIDE (44RLU-2-G)
(G-1)	2' X 2' LED FLAT PANEL, GRID LAY-IN	2'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	40	-	3400						VIVIDLEDS (VVDES240-35-UNV-WH-D1)		
(G-2)	2' X 4' LED FLAT PANEL, GRID LAY-IN	4'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	50	-	4300						VIVIDLEDS (VVDES2450-35-V27-WH-D1)		
(G-3)	2' X 4' LED FLAT PANEL, GRID LAY-IN	4'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	60	-	6700						VIVIDLEDS (VVDES2461-35-V27-WH-D1)		
(GF-1F)	2' X 2' LED FLAT PANEL, GRID LAY-IN, PROVIDE FLANGE KIT	2'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	40	-	3400			FLANGE KIT			VIVIDLEDS (VVDES240-35-UNV-WH-D1)		
(GF-2)	2' X 4' LED FLAT PANEL, GRID LAY-IN, PROVIDE FLANGE KIT	4'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	50	-	4300			FLANGE KIT			VIVIDLEDS (VVDES2450-35-V27-WH-D1)		
(GS-1)	2' X 2' LED TROFFER, EDGE LIT PANELS, GRID LAY-IN	2'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	29	-	3400						METALLUX (22EN-LD2-25-UNV-L835-C-D1-U)	LEDALITE (4111-D1-D1-ST-L-8B-D-S-7-2-E)	
(GS-2)	2' X 4' LED TROFFER, EDGE LIT PANELS, GRID LAY-IN	4'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	38	-	4300						METALLUX (24EN-LD2-45-UNV-L835-C-D1-U)	LEDALITE (4224-D1-D1-ST-L-8B-D-S-7-2-E)	
(NF-4)	4' X 4' LINEAR RECESSED SLOT, GRID MOUNT	4'-0"	0'-4"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						PINNACLE (E4A-835-4'-GX-U-OL1-1-W)		
(NF-6)	4' X 6' LINEAR RECESSED SLOT, GRID MOUNT	4'-0"	0'-4"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						PINNACLE (E4A-835-6'-GX-U-OL1-1-W)		
(NMF-4)	4' X 4' LINEAR RECESSED SLOT, GRID MOUNT	4'-0"	0'-4"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						PINNACLE (E4A-835-4'-GX-U-OL1-1-W)		
(OU-1)	LED NIGHTLIGHT, RECESSED IN WALL, AMBER, WHITE GLOSS FINISH, TORX HEAD WITH CENTER PIN FASTENERS, HIGH IMPACT ACRYLIC LENS	0'-2.5"	0'-3"	-	-	WR	LED	AMBER		NO DIMMING	120/277	5	WH	150			TORX HEAD, HIGH IMPACT ACRYLIC			KENALL (MCSL-HR-MW-QL35K-DV)	HEALTHCARE (HHL610M-V-LED-AMB-TR-FW)	
(PE-2)	2' X 2' LED FLAT PANEL, GRID LAY-IN	2'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	40	-	3400						VIVIDLEDS (VVDES240-35-UNV-WH-D1)		
(PE-2F)	2' X 2' LED FLAT PANEL, GRID LAY-IN	2'-0"	2'-0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	40	-	3400						VIVIDLEDS (VVDES240-35-UNV-WH-D1)		
(TX-1)	16" ROUND 4" DEEP SURFACE MOUNT FIXTURE, SPLASH PROOF LED 80+ CRI	-	-	0'-4"	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	22	-	2100						PHILLIPS (CL261 DS OYSTER 22W 35 IP54 ANZ)		
(TX-5)	2' X 2' LED LABOR AND DELIVERLY MOTORIZED PROCEDURE LIGHT, GRID LAY-IN MOUNT	2'-0"	2'-0"	-	-	CR	LED	-		-		280	-	8000						OWNER FURNISHED, CONTRACTOR INSTALLED		
(LUC-5)	UNDER CABINET LED STRIP	2'-0"	-	-	-		LED	3500K		ELV DIMMING	120/277	8	-	600						DAY-BRITE (LINC100E-L28-935-UNV-WHG-DIM)	KENALL (AUCLED-1-MW-11L39K-2-4-277)	AIREY-THOMPSON (13HC-N-35K-24-2-3-D11)
(WS-2)	3' LED VANITY LIGHT, SATIN CHROME FINISH, 2.25" WIDE	3'-0"	0'-2.25"	-	-	WS	LED	3500K		NO DIMMING	120/277	19	-	2000						EDGE LIGHT (TW12-S11-1RE-36"-35K-C-H)	EUREKA (3541-35-LED-17.40-1202-77-SC-WH)	LBL (LW496-OP-XX-LED-277)



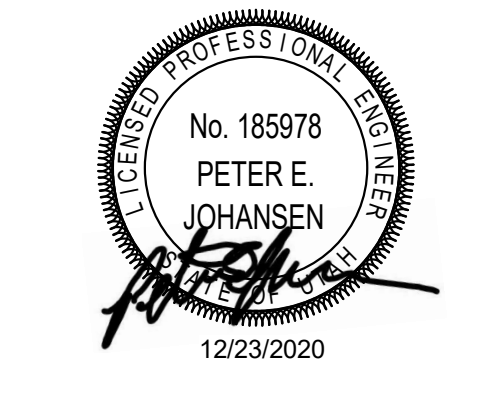
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9660 SOUTH 1300 EAST, SANDY, UT
CONSTRUCTION DOCUMENTS

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	
1D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS: TOP-ON, HOLD TOP-RAISE LABEL ID: TOP, "ON/RAISE" BOTTOM-"OFF"/LOWER"	-	-	-	-	-	-	-	-	-	-
1S1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON PRESS-OFF LABEL ID: "ON/OFF"	-	-	-	-	-	-	-	-	-	-
1S3		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON LABEL ID: "ON"	FUNCTION: PRESS-OFF LABEL ID: "OFF"	-	-	-	-	-	-	-	-	-

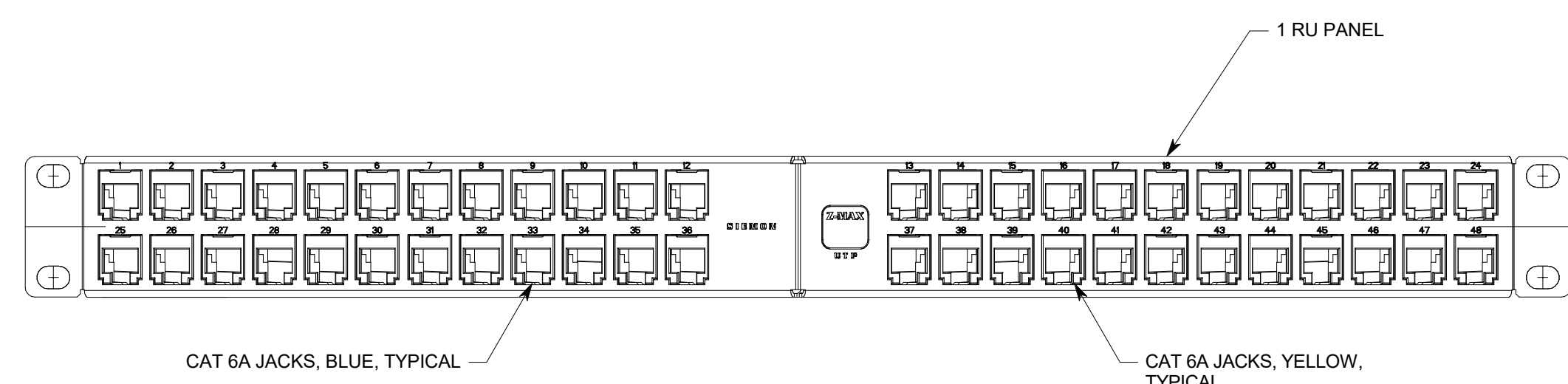
- LINE VOLTAGE WIRING
 - 0-10V WIRING
 - CATSE CABLING
 - WIRING BY OTHERS
 - TMP SEGMENT NETWORK CABLING
- WATTSTOPPER (BASIS OF DESIGN)
 - NLIGHT
 - HUBBEL BUILDING AUTOMATION
 - GREENGATE
- # = NUMBER OF ZONES
 - D = DIMMING, S = SWITCHING
 - P = DAYLIGHT PHOTOCELL
 - L = PLUG LOAD CONTROLLER
 - # = INSTANCE
- COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER.
 - PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.
 - PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER.
 - 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.
- REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES.
 - INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS.
 - 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.
 - 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.



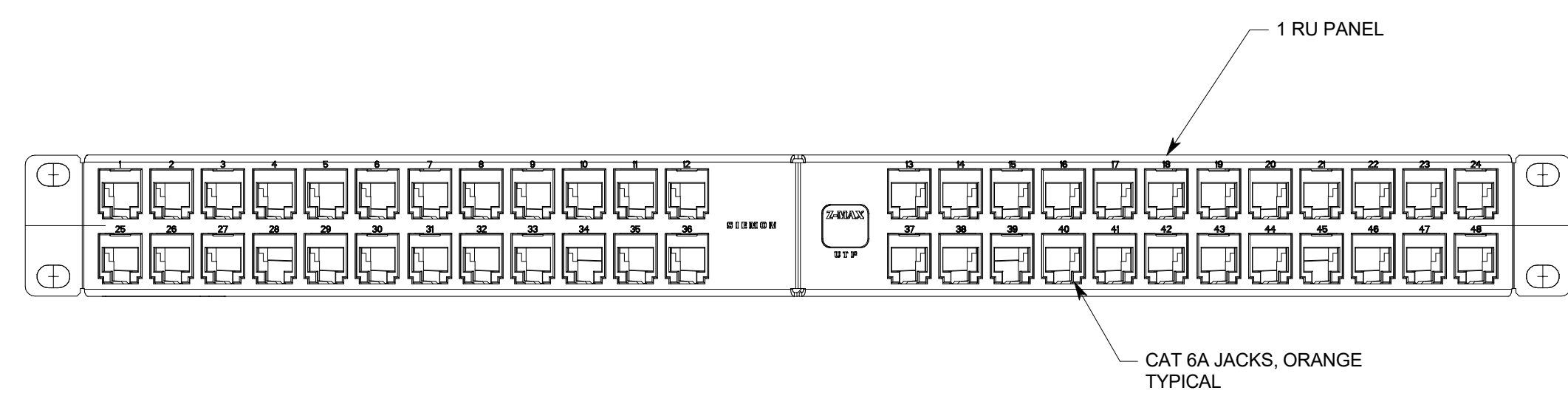
REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
CLIENT NUMBER:
DATE: 23 DECEMBER 2020

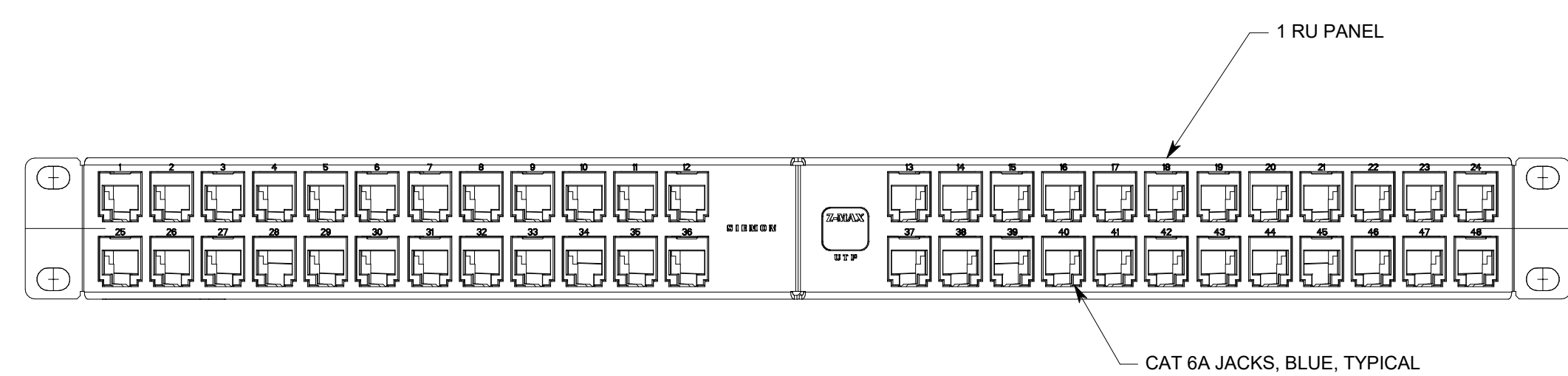
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INTERMOUNTAIN HEALTHCARE
9660 SOUTH 1300 EAST, SANDY, UT
CONSTRUCTION DOCUMENTS



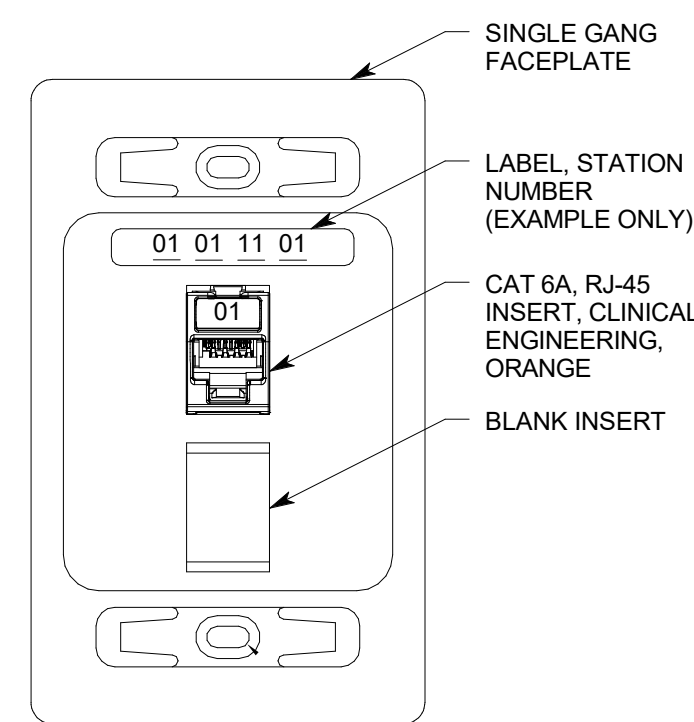
16 LAST PATCH PANEL, (SPP1), TDR
NO SCALE



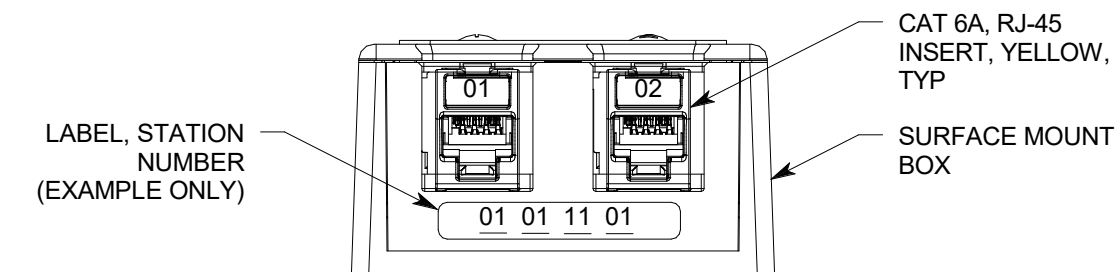
15 CLINICAL ENGINEERING PATCH PANEL, (CEPP1), TDR
NO SCALE



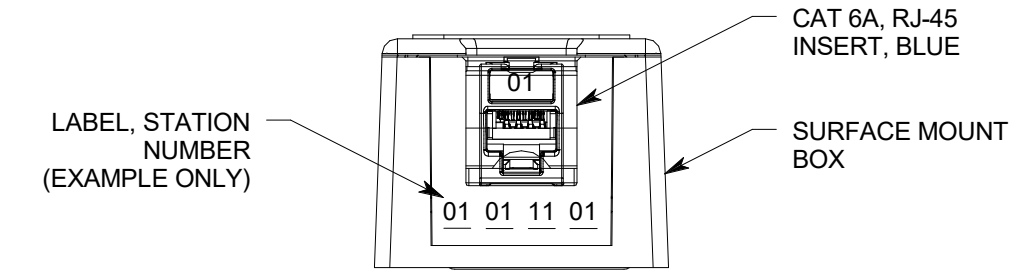
14 STATION PATCH PANEL, (SPP1), TDR
NO SCALE



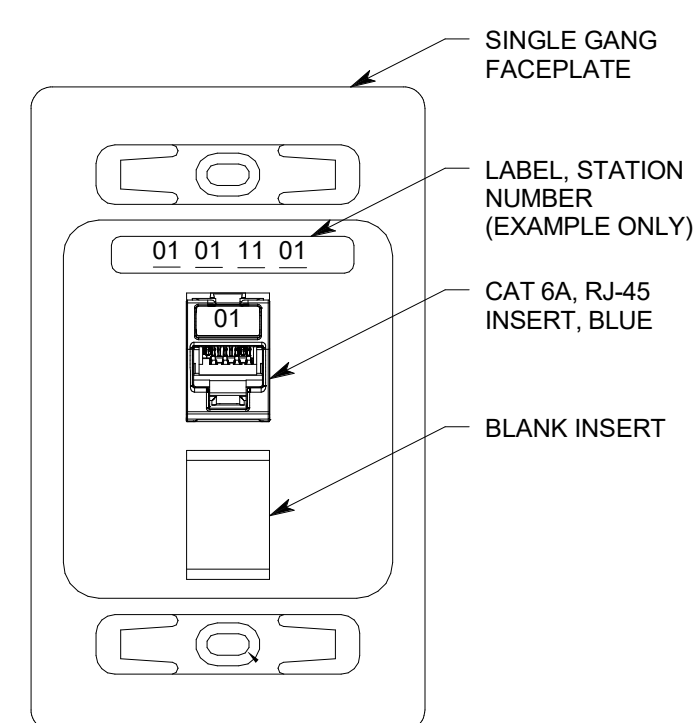
13 TYPICAL 1-PORT PHYS MON DATA OUTLET
NO SCALE



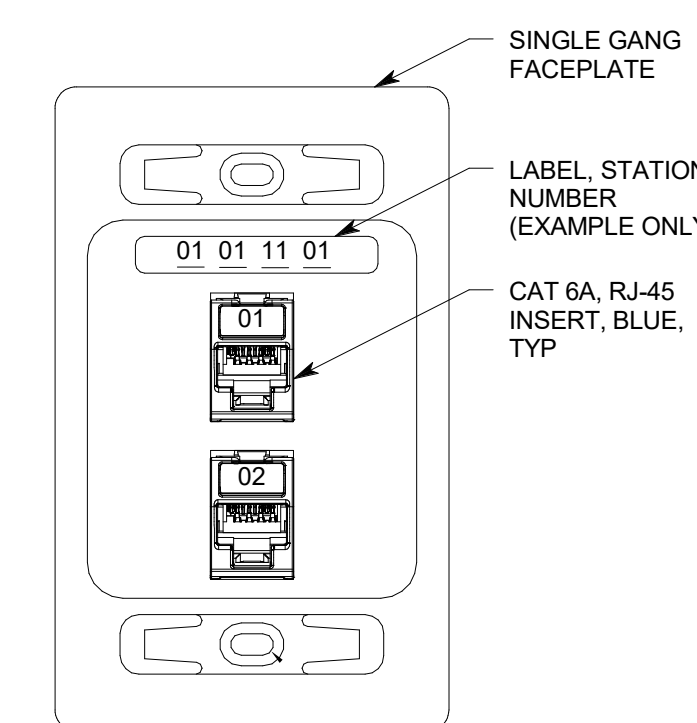
8 TYPICAL 'WAP' DATA OUTLET
NO SCALE



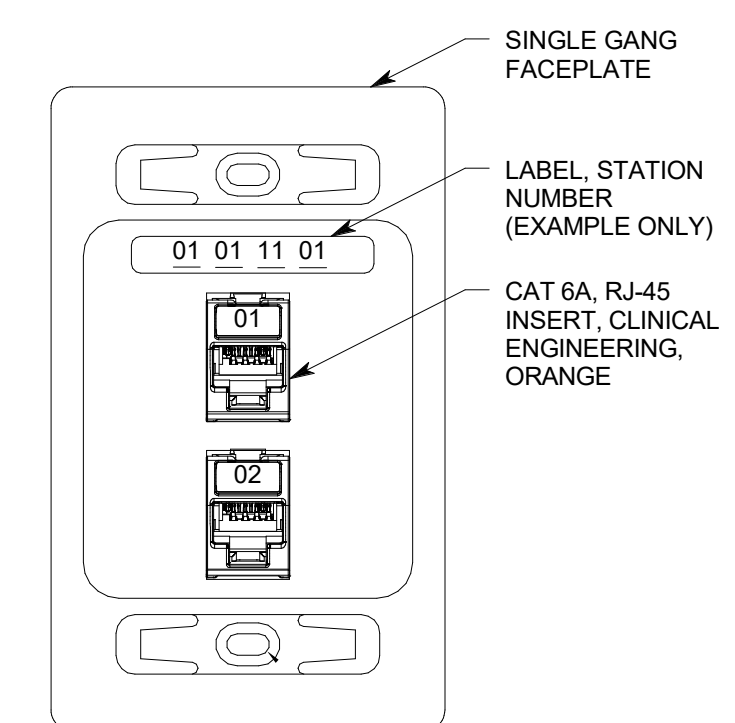
3 TYPICAL 1-PORT CAMERA DATA OUTLET
NO SCALE



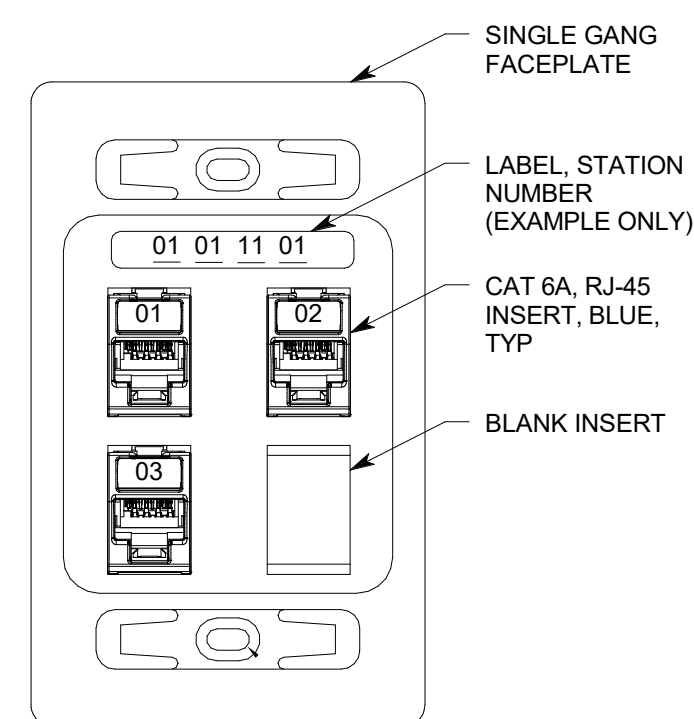
12 TYPICAL 1-PORT DATA OUTLET
NO SCALE



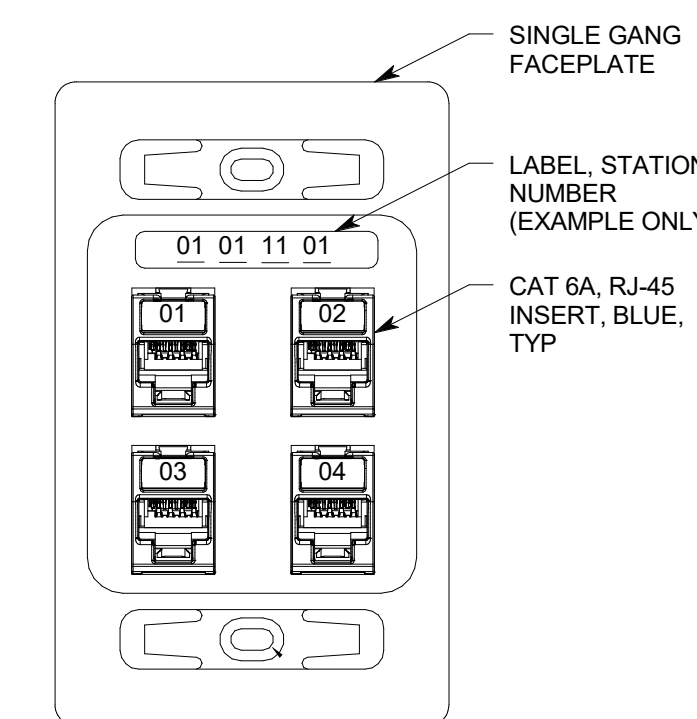
7 TYPICAL 2-PORT DATA OUTLET
NO SCALE



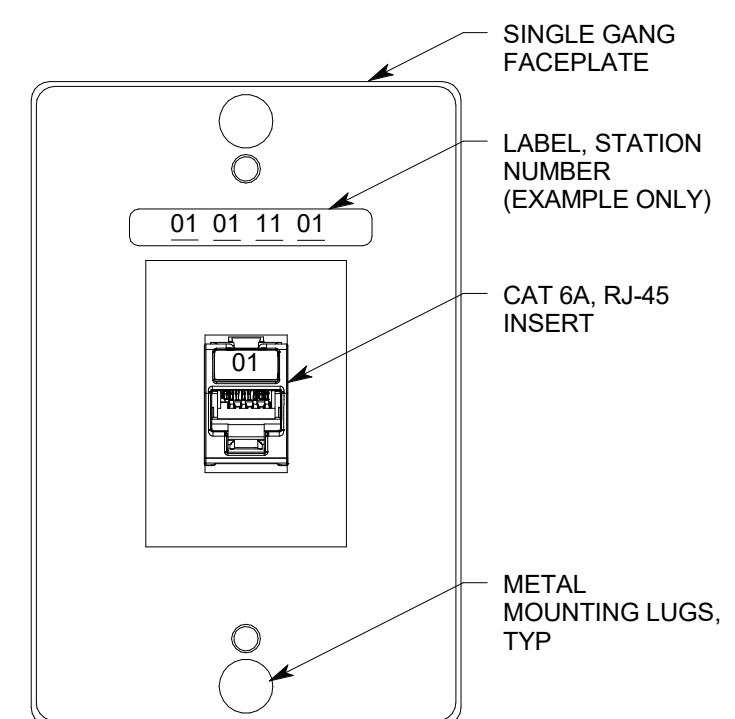
2 TYPICAL 2-PORT PHYS MON DATA OUTLET
NO SCALE



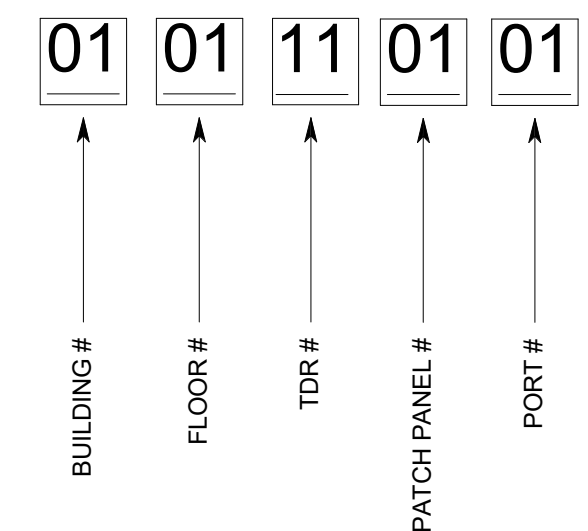
11 TYPICAL 3-PORT DATA OUTLET
NO SCALE



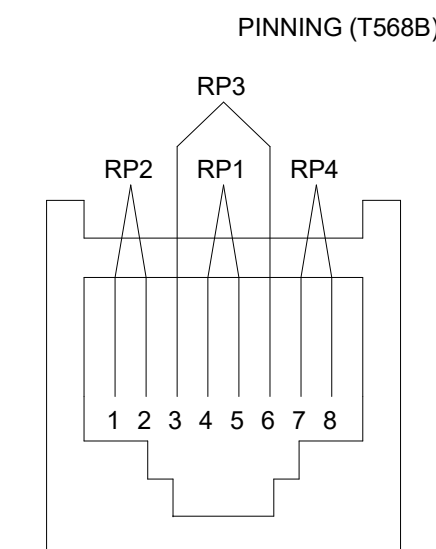
6 TYPICAL 4-PORT DATA OUTLET
NO SCALE



1 TYPICAL WALL PHONE OUTLET
NO SCALE



5 CABLE ID EXAMPLE DETAIL
NO SCALE



4 TYPICAL VOICE-DATA OUTLET PINNING DETAIL
NO SCALE

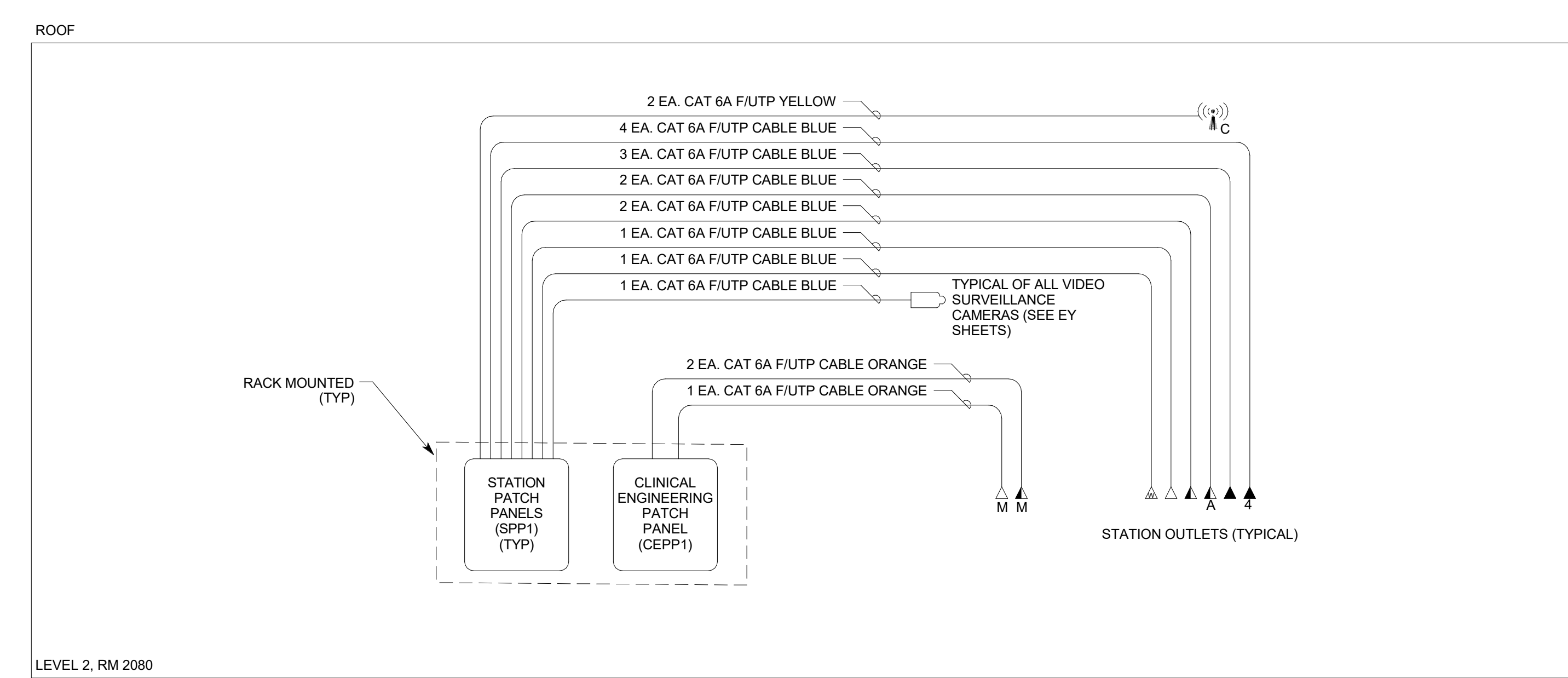
PIN	RP/ #	COLOR
5	T1-WBL	
4	R1-BLW	
1	T2-W/O	
2	R2-O/W	
6	R3-GRW	
7	T4-WBR	
8	R4-BRW	

REV	DATE	DESCRIPTION

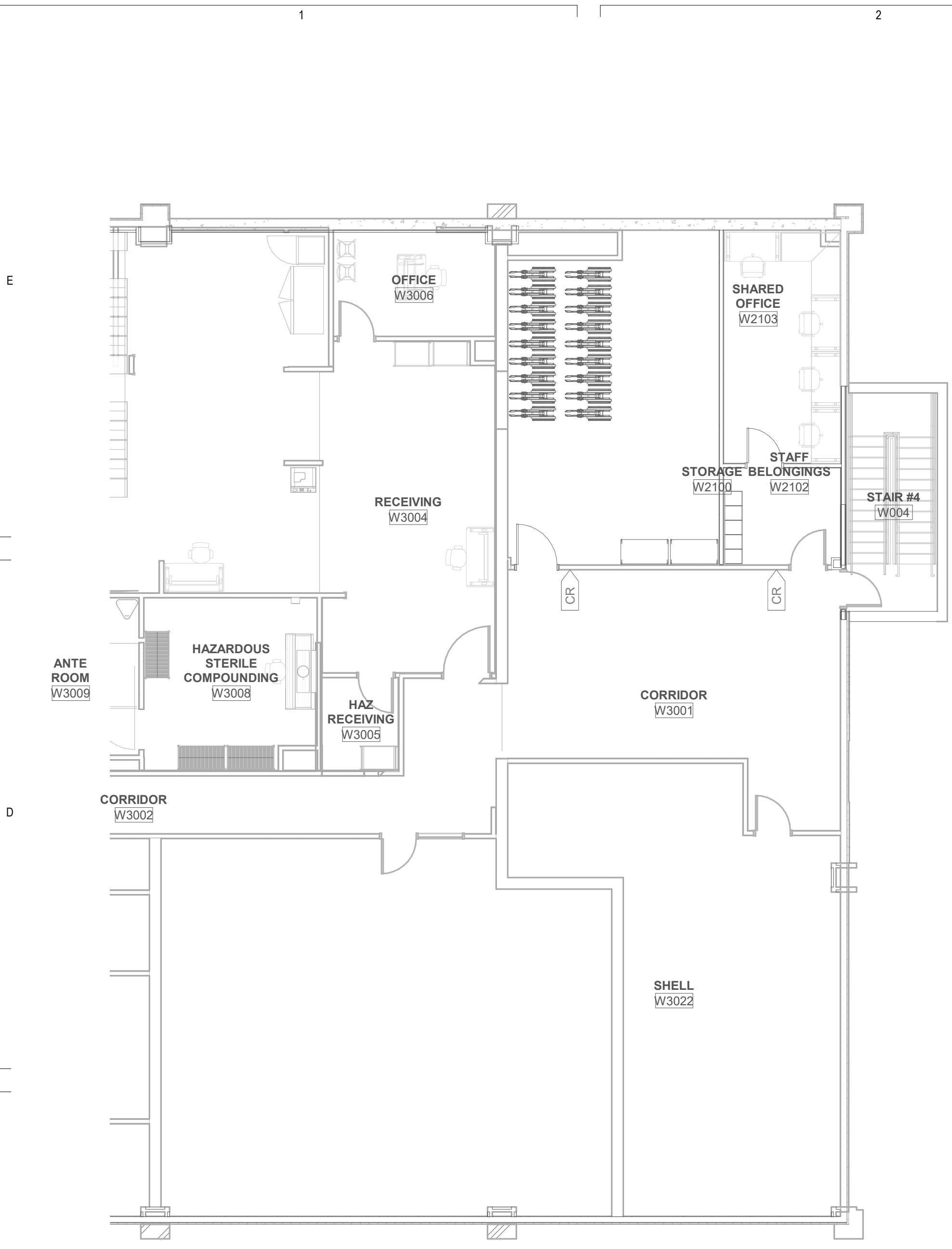
VCBO NUMBER: 19740.00
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REV	DATE	DESCRIPTION
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VCBO NUMBER: 19740.00
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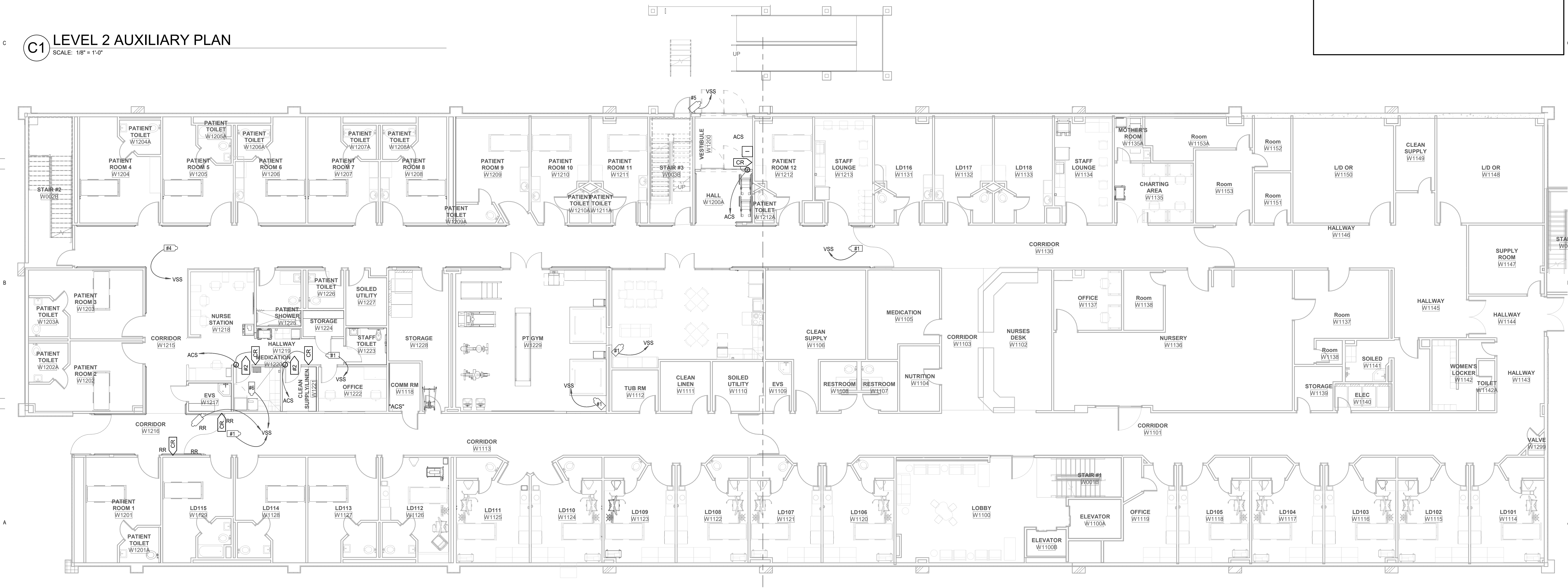
A4 TELECOM CABLE RISER DIAGRAM
NO SCALE



C1 LEVEL 2 AUXILIARY PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

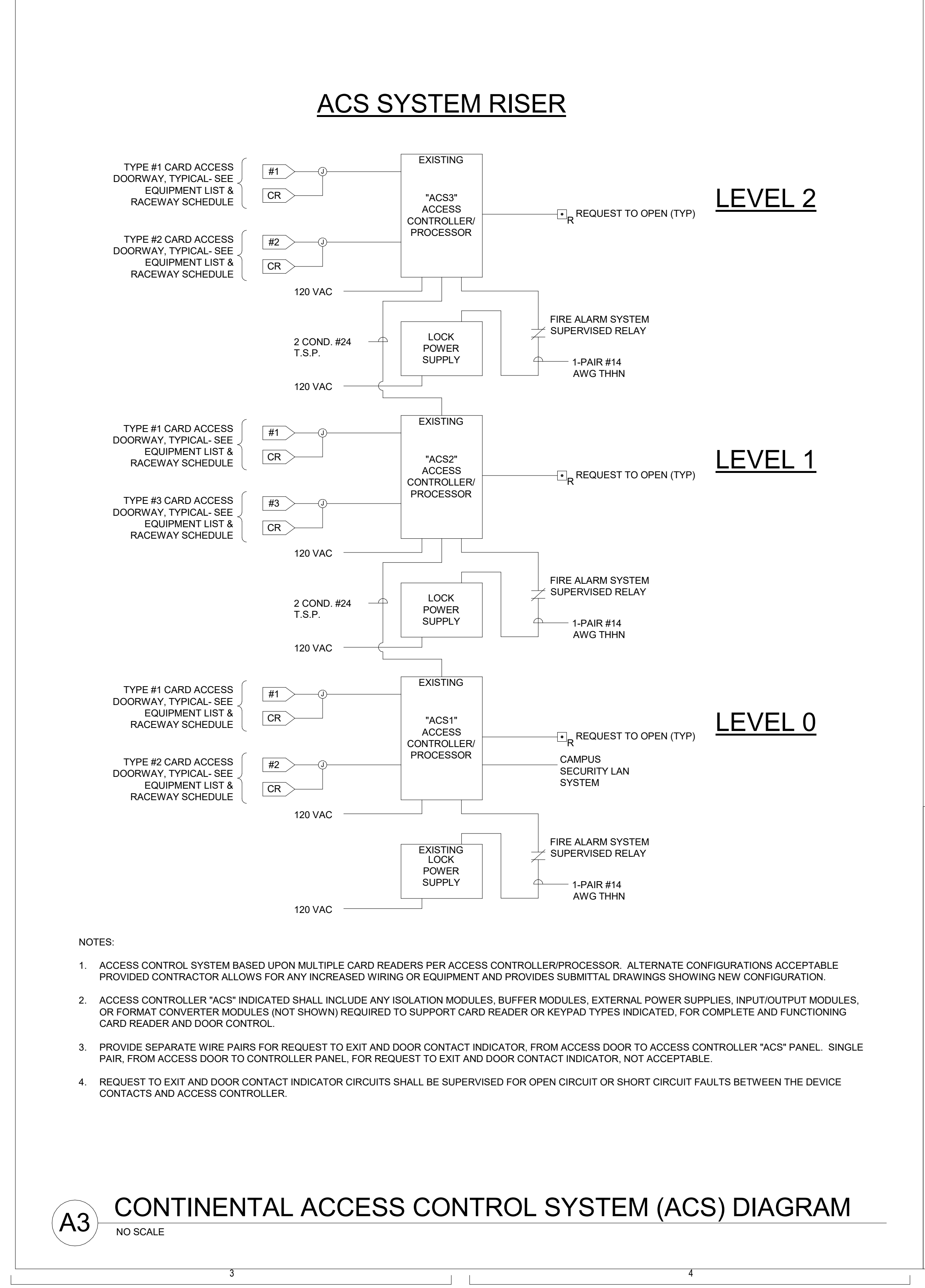
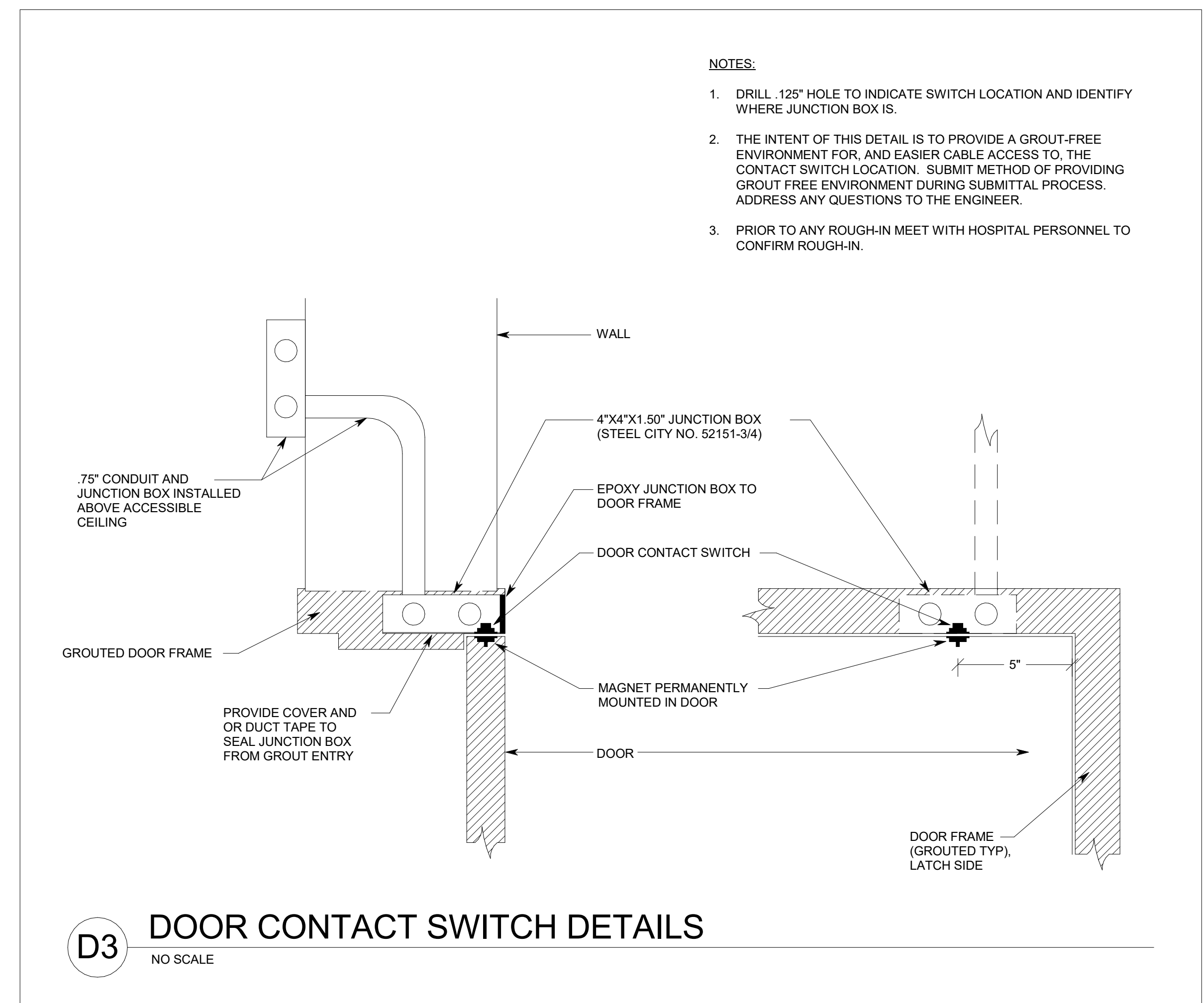
SHEET KEYNOTES



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

REV	DATE	DESCRIPTION

VCBO NUMBER: 19740.00
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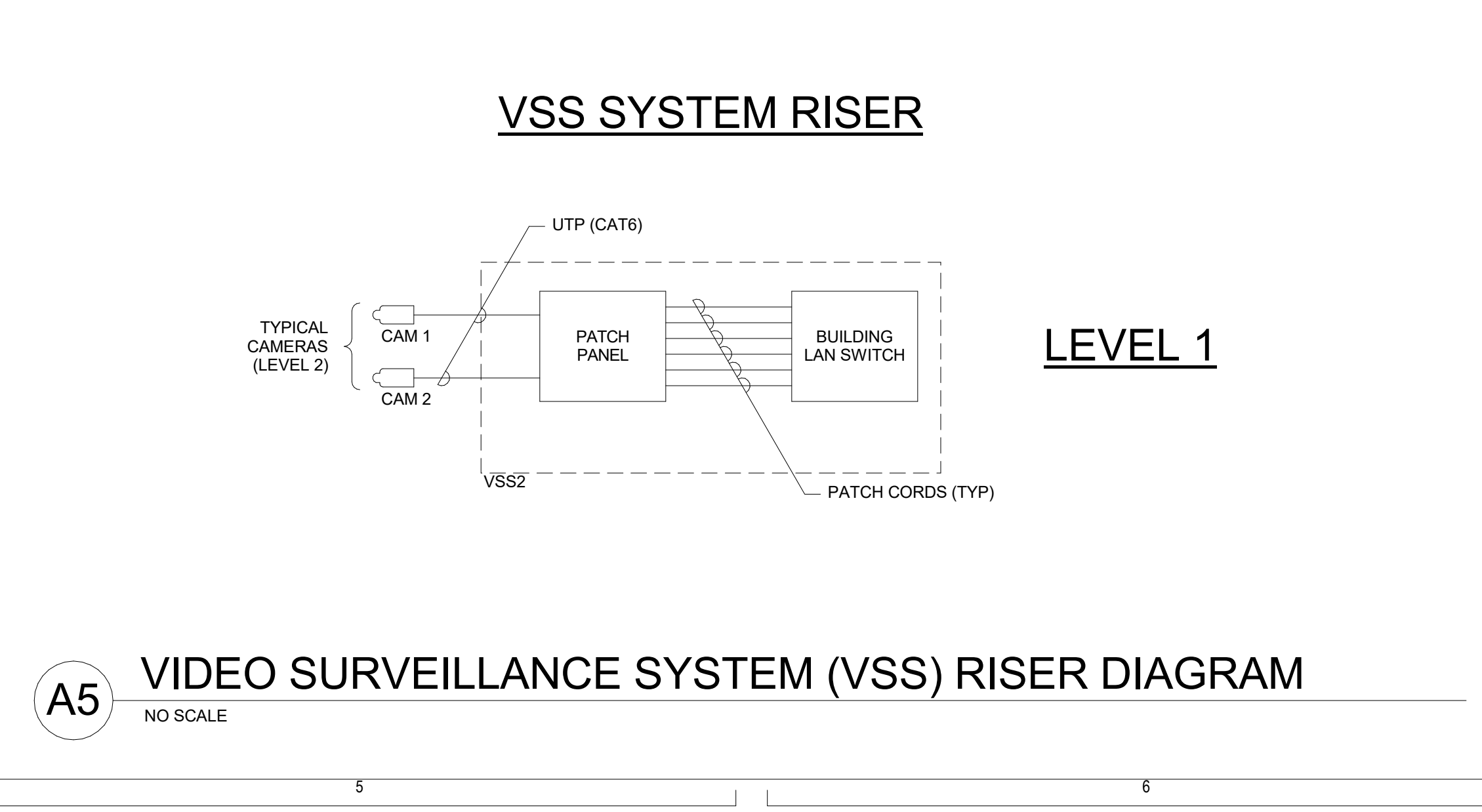
SECURITY EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING *	ROUGH-IN	QTY	ACCEPTABLE TYPES
CR	CARD READER	40"	4SQ W/ 1G RING	OFF	SEE SECTION 281300
#1	CARD ACCESS DOOR TYPE, TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFF	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300
I	IP INTERCOM WALL STATION	54"	3-GANG VERTICAL BOX	OFF	PROVIDE AXIS A8004-VE NETWORK VIDEO DOOR STATION
P	PANIC BUTTON	DESK	SURFACE MOUNT	OFF	SEE SECTION 281300
#1	VSS CAMERA/ENCLOSURE TYPE, TYPICAL. REFER TO VSS CAMERA/ENCLOSURE TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFF	SEE VSS CAMERA/ENCLOSURE TYPE SCHEDULE
ACS	CARD ACCESS CONTROLLERS & PWR SUPPLIES	72"	4"x4" GUTTER & STUBS A/R	A/R	SEE SECTION 281300
VSS	VIDEO SURVEILLANCE SYSTEM	RACK MOUNTED			COORDINATE WITH OWNER
SCP	SYSTEM ARM/ DISARM PANEL	WALL @ +48"	SINGLE GANG	1	DSX
SEC	SECURITY PANEL (PHARMACY)	WALL	SURFACE MOUNT	1	DSX

* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.

VSS CAMERA SCHEDULE

TYPE	INTERIOR (INT)/ EXTERIOR (EXT)	DESCRIPTION	AXIS MODEL #
1	INT	FIXED DOME, VARIFOCAL, CEILING MOUNT	P3375-V
2	INT	FIXED DOME, VARIFOCAL, WALL MOUNT	P3375-V
3	EXT	FIXED DOME, VARIFOCAL, WALL MOUNT	Q3515-LVE
4	INT/EXT	FIXED DOME, CEILING MOUNT (360°)	P3717-PL
5	INT/EXT	FIXED DOME, CEILING MOUNT (180°)	P3807-PVE
6	INT	FIXED DOME, CEILING MOUNT DRUG DISPENSER	M3067-P0808-001
7	EXT	PARAPET MOUNT ARM, PAN TILT ZOOM	Q6075-E



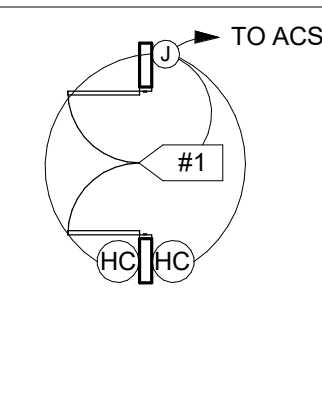
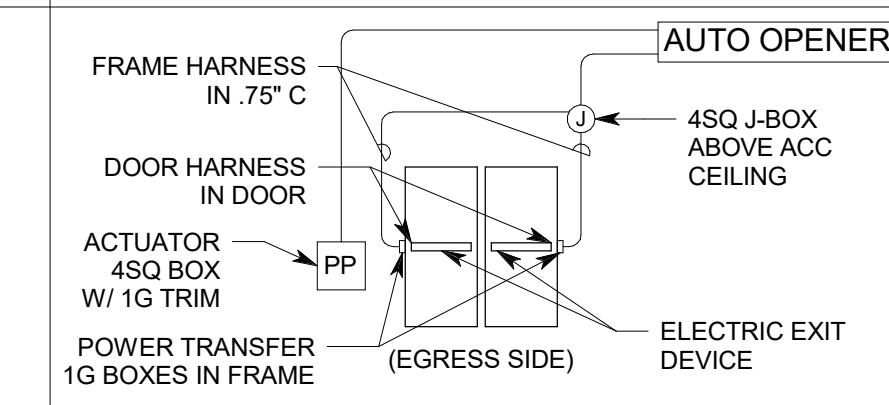
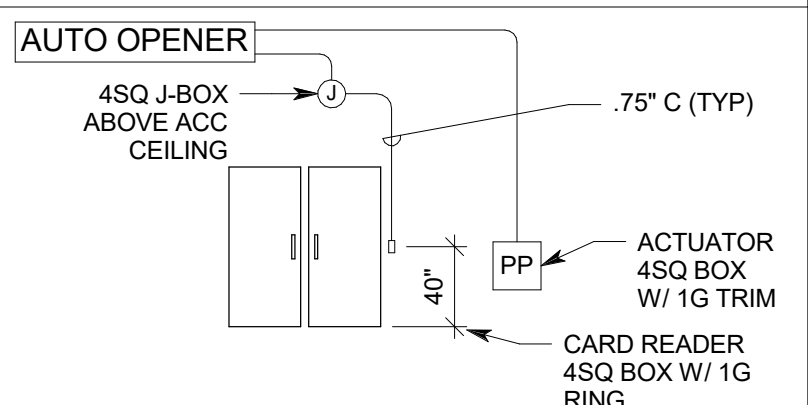
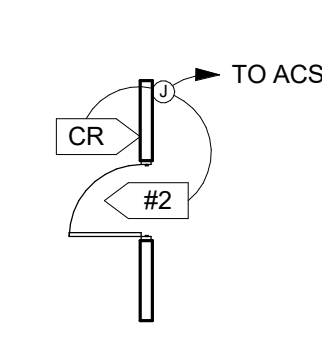
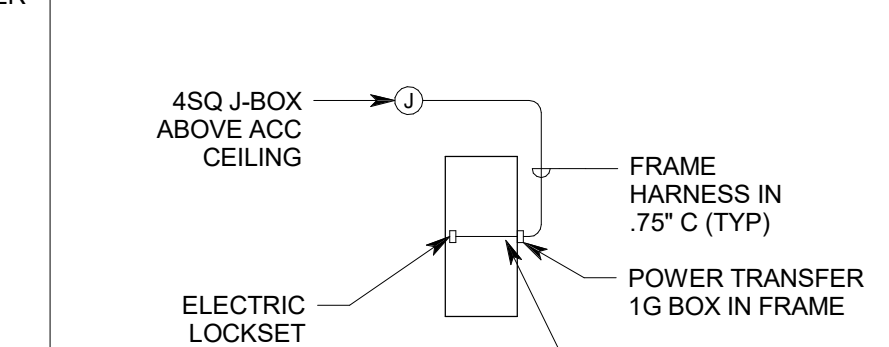
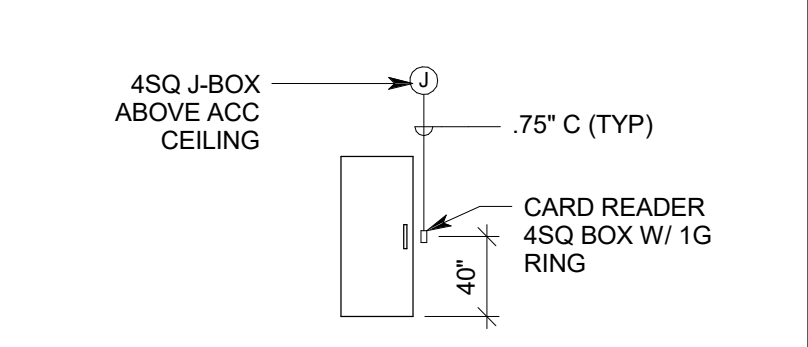
NOTES

1. PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
3. CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 8 DOOR HARDWARE SPECIFICATIONS.
4. LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.
5. DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.
6. ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

ABBREVIATIONS

- 1G = 1-GANG OR SINGLE GANG
- 4SQ = FOUR SQUARE JUNCTION BOX
- AO = AUTO OPENER
- AR = AS REQUIRED
- ACC = ACCESSIBLE
- ACS = ACCESS CONTROL SYSTEM CONTROLLER
- ADA = ASSISTED DISABILITY OPENER
- AED = ELECTRIC EXIT DEVICE/CR COMBO ON DOOR
- AEL = ELECTRIC LOCK/CR COMBO ON DOOR
- C = CONDUIT
- CI = DOOR CONTACT INDICATOR SWITCH
- CR = CARD READER
- DH = DOOR HARNESS
- DBL = DOUBLE
- DED = DELAYED EXIT DEVICE
- DIR = DIRECTION
- ED = EXIT DEVICE
- EH = ELECTRIC HINGE
- EL = ELECTRIC LOCKSET
- ES = ELECTRIC STRIKE
- EDL = ELECTRIC DEADLATCH
- EED = ELECTRIFIED EXIT DEVICE
- ELC = EMERGENCY LOCK CONTROL
- EPT = ELECTRIC POWER TRANSFER
- FA = FIRE ALARM SYSTEM
- FH = FRAME HARNESS
- HDWR = HARDWARE
- IDS = INTRUSION DETECTION SYSTEM
- KS = KEY SWITCH
- LS = LOCK INDICATOR SWITCH IN HARDWARE
- LX = PANIC HARDWARE LATCH POSITION SWITCH
- LPS = LOCK POWER SUPPLY
- MD = MOTION DETECTOR
- ML = ELECTROMAGNETIC LOCK
- OCC = OCCUPANCY
- OPF = OBTAIN FROM PLANS
- PB = PUSH BUTTON RELEASE
- PH = PANIC HARDWARE
- PP = PUSH PAD ACTUATOR
- PS = POWER SUPPLY
- POE = POE EXIT DEVICE
- PEL = POE ELECTRIC LOCKSET
- PIB = INTERFACE BOARD FOR COMBO LOCKING HARDWARE
- PWR = POWER
- QTY = QUANTITY
- RS = REMOTE OPEN SWITCH
- REX = REQUEST TO EXIT SWITCH/FUNCTION
- TLC = TIME/SYSTEM LOCK CONTROL
- TYP = TYPICAL
- W/ = WITH

CARD ACCESS DOOR TYPE SCHEDULE

DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1		DOUBLE DOOR, W/ AUTO OPENER AND 2 ACTUATORS FRAME POWER TRANSFER			ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR PROVIDES: • HARDWARE CONTRACTOR PROVIDES: • EED, EPT, ADA, LPS, FH, DH, AO LOCK CONTROLLED BY: • ADA
TYPE 2		SINGLE DOOR, 1 CARD READER ELECTRIC HINGE POWER TRANSFER			ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, FH, DH HARDWARE CONTRACTOR PROVIDES: • EL, EH, LPS LOCK CONTROLLED BY: • CR



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 9660 SOUTH 1300 EAST, SANDY, UT
 CONSTRUCTION DOCUMENTS

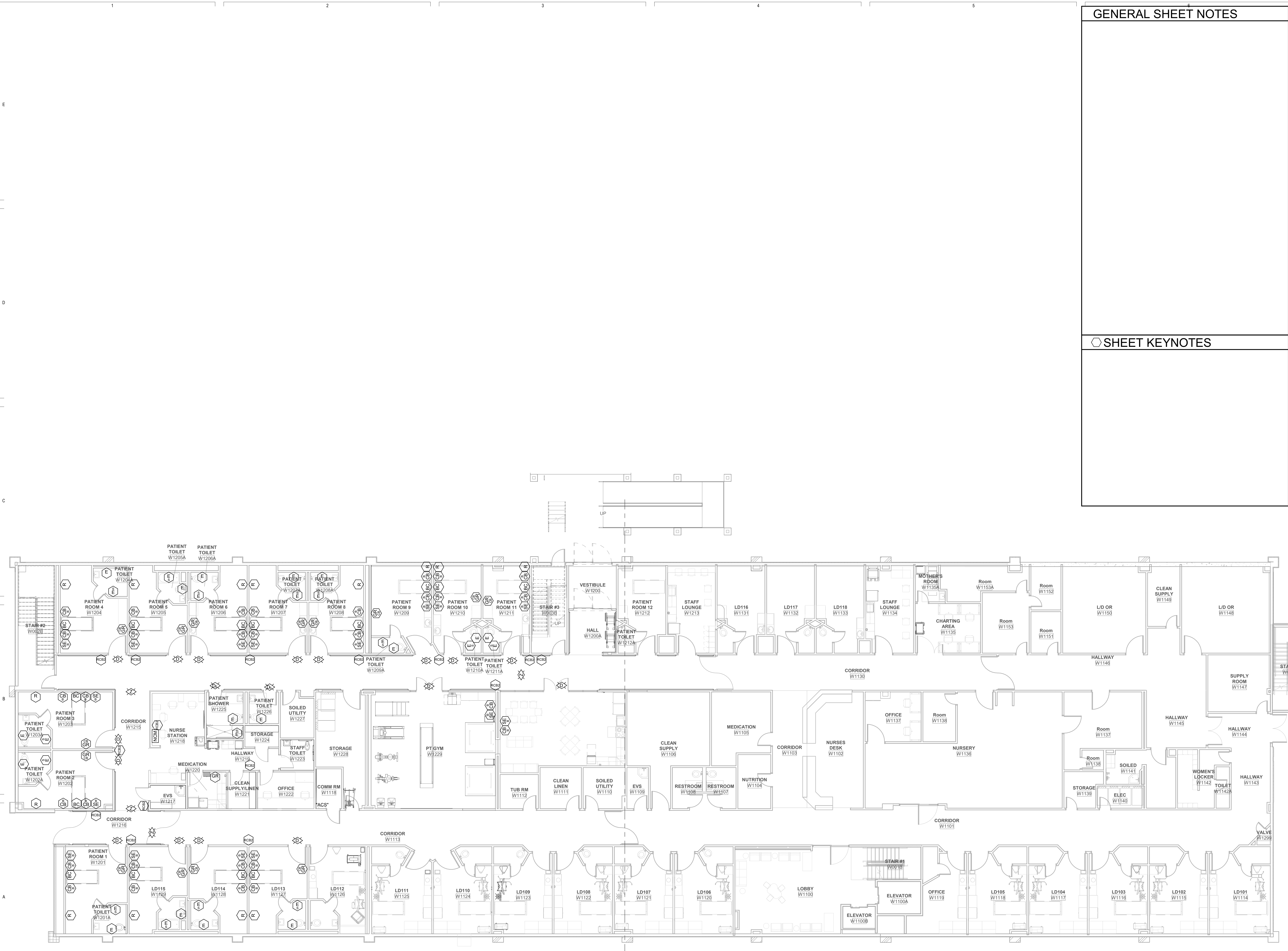
GENERAL SHEET NOTES

SHEET KEYNOTES



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1 LEVEL 1 SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

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9660 SOUTH 1300 EAST, SANDY, UT
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