

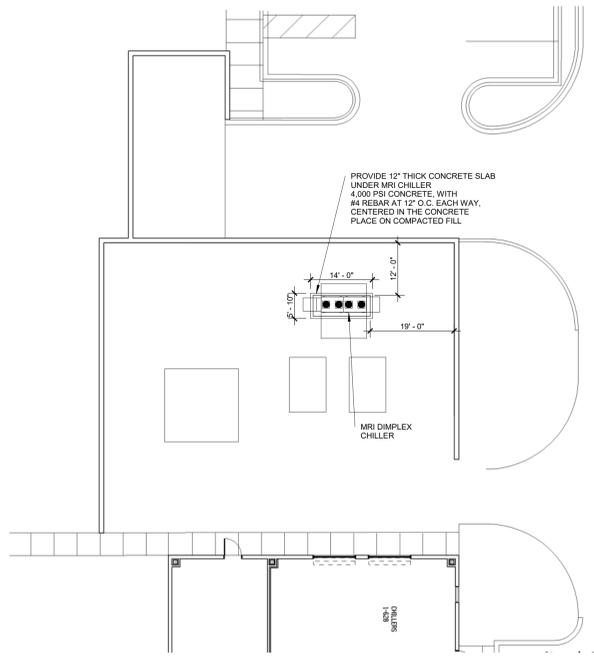
TIMPANOGOS REGIONAL HOSPITAL MRI RETROFIT Orem, Utah



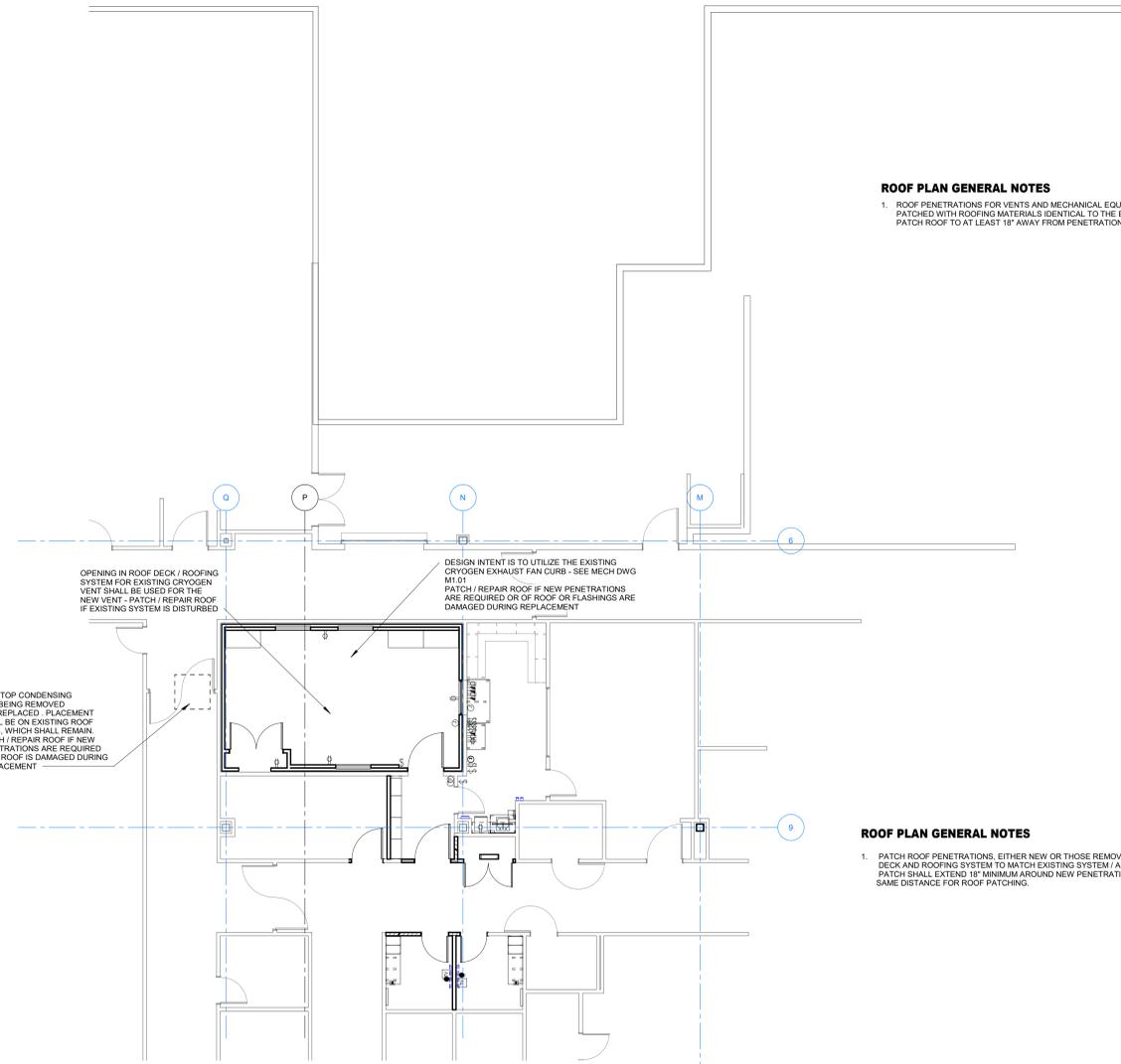
KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
23798.000
DATE
03/23/20
ISSUE
CONSTRUCTION DOCUMENTS
SHEET TITLE
ROOF PLAN / FINISH PLAN / SITE PLAN
SHEET NO.
A2.02



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



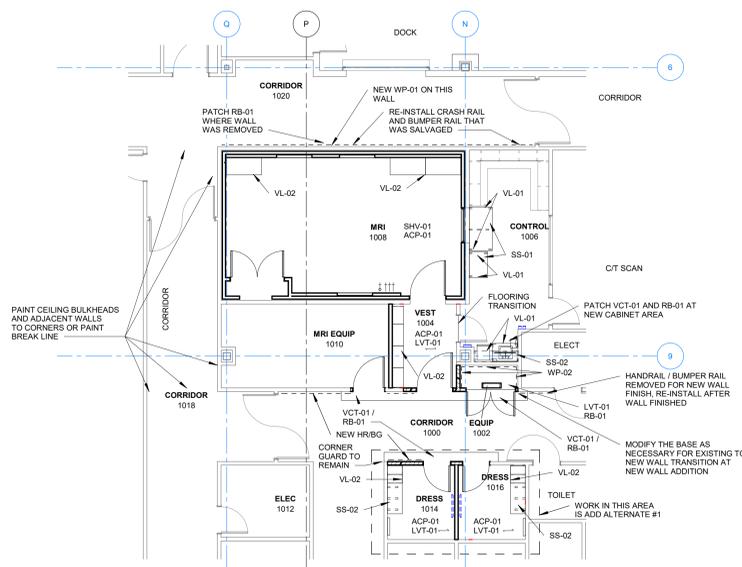
ROOF PLAN GENERAL NOTES

- ROOF PENETRATIONS FOR VENTS AND MECHANICAL EQUIPMENT SHALL BE PATCHED WITH ROOFING MATERIALS IDENTICAL TO THE EXISTING MATERIALS. PATCH ROOF TO AT LEAST 18" AWAY FROM PENETRATIONS.

ROOF PLAN GENERAL NOTES

- PATCH ROOF PENETRATIONS, EITHER NEW OR THOSE REMOVED, WITH ROOF DECK AND ROOFING SYSTEM TO MATCH EXISTING SYSTEM / ASSEMBLY. PATCH SHALL EXTEND 18" MINIMUM AROUND NEW PENETRATIONS, OR THE SAME DISTANCE FOR ROOF PATCHING.

01 LEVEL 1 ROOF PLAN
1/8" = 1'-0"



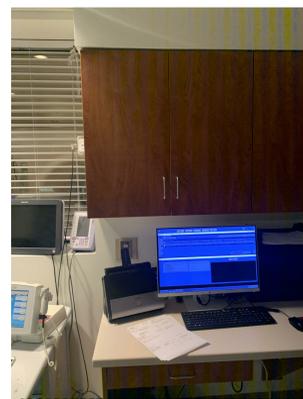
FINISH NOTES

- FLOORING TRANSITIONS SHALL OCCUR UNDER DOORS.
- FLOORING TRANSITION VCT TO LVT SHALL BE A BUTT JOINT BETWEEN THE 2 MATERIALS. NO TRANSITION STRIP.
- NEW CONCRETE FLOOR PREP NOTES: REFER TO SPECIFICATION SECTION 09 6500 FOR MOISTURE TREATMENT REQUIREMENTS FOR VARIOUS FLOORING TYPES.
- CAULK AND SEALANTS SHALL MATCH ADJACENT FINISHES UNLESS PAINTED.

FINISH INFORMATION

- IPT-01: WALL PAINT. MATCH EXISTING FACILITY FIELD WALL PAINT ON ADJACENT WALLS. P11A IS THE COLOR - VERIFY WITH PAINT REP.
- LVT-01: LVT FLOORING. LONG DIRECTION SHOWN BY ARROW. MATCH FACILITY STANDARD - SEE PICTURE 07.
- SHV-01: SHEET VINYL FLOORING. COVERED BASE (4') - ?????
- VCT-01: VINYL COMPOSITION TILE. 12"X12". MATCH EXISTING FACILITY ADJACENT MATERIAL - SEE PICTURE 06.
- RB-01: RUBBER BASE 4", COVERED. MATCH EXISTING FACILITY ADJACENT MATERIAL - SEE PICTURE 06.
- ACP-01: ACOUSTICAL CEILING PANEL. FACILITY STANDARD 24"X24" STRAIGHT EDGE. USG - RADAR, WHITE - 1"-GRID, WHITE.
- VL-01: VERTICAL PLASTIC LAMINATE. MATCH ADJACENT CHERRY COLOR IN CONTROL ROOM - SEE PICTURE 03.
- VL-02: VERTICAL PLASTIC LAMINATE. MATCH MAPLE COLOR ON DOORS - SEE PICTURE 05.
- WD-01: PLASTIC LAMINATE ON ALL NEW WOOD DOORS, INCLUDING MRI ROOM DOOR. MATCH MAPLE COLOR ON EXISTING DOORS - SEE PICTURE 04.
- SS-01: SOLID SURFACE COUNTERTOP - MRI CONTROL ROOM. MATCH EXISTING CONTROL AREA COUNTERTOP (OFF WHITE) - SEE PICTURE 03.
- SS-02: SOLID SURFACE COUNTERTOP / BENCH. MATCH EXISTING COUNTERTOP IN PICTURE 08.

02 LEVEL 1 FINISH PLAN
1/8" = 1'-0"



03 MRI CONTROL COUNTERTOP FINISH
1" = 80'-0"



04 DOOR LAMINATE FINISH
1" = 80'-0"



05 CABINET / COUNTERTOP FINISH
1" = 80'-0"



06 VCT BASE FINISH
1" = 80'-0"

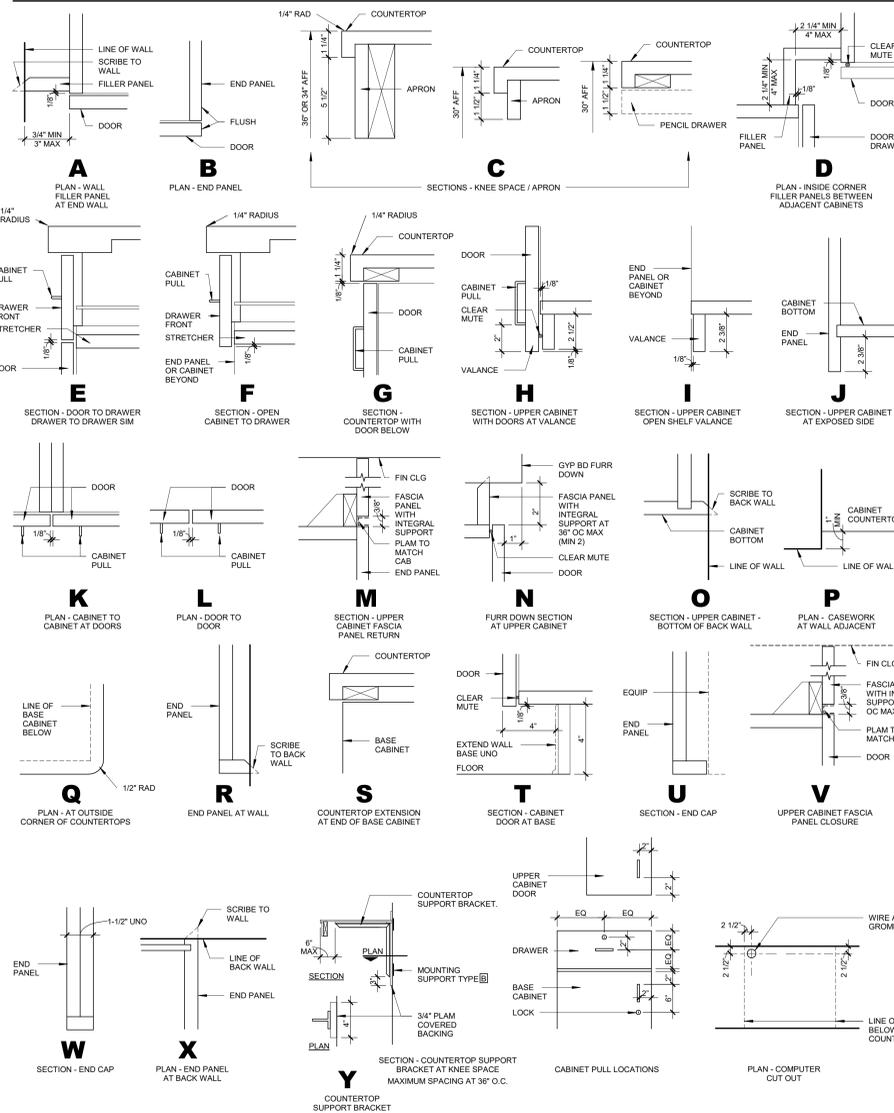


07 FLOORING LVT FINISH
1" = 80'-0"

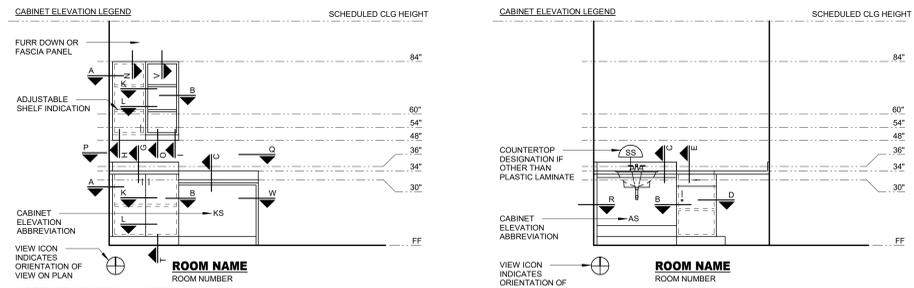
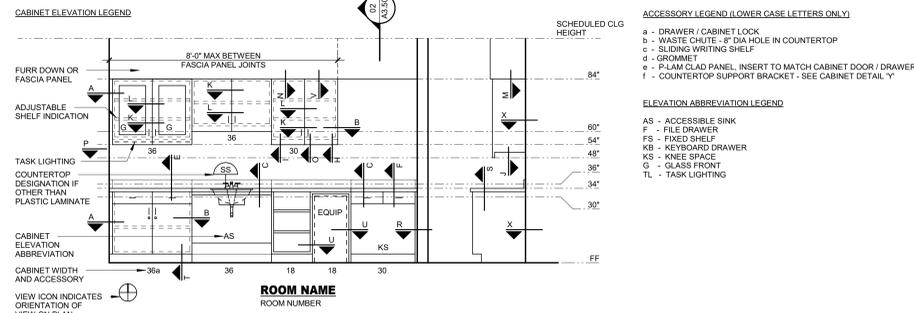


08 COUNTERTOP / BENCH FINISH
1" = 80'-0"

ARCHITECTURAL CABINET TYPICAL DETAILS

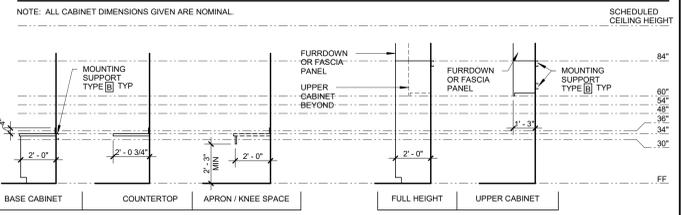


CABINET LEGEND



- ### CABINET GENERAL NOTES
- CABINET WIDTHS TO BE BASED ON MODULE INCREMENTS OF 3" UNO.
 - PROVIDE FILLER PANELS TO FINISH OUT TO SCRIBE CABINETS TO WALL.
 - PROVIDE FILLER PANELS AND TRIM WHERE EQUIPMENT IS LOCATED WITHIN CABINETS.
 - PROVIDE FINISHED END PANELS END RETURNS AT OPEN ENDED CABINETS, KNEE SPACES, AND ACCESSIBLE SINKS.
 - PROVIDE 1 1/2" THICK FINISHED END PANEL AT FREE STANDING END OF ACCESSIBLE SINKS AND KNEE SPACES, UNLESS NOTED OTHERWISE.
 - WHEN FILLER PANELS ARE REQUIRED AT BOTH ENDS OF CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
 - PROVIDE WALL BRACKET SUPPORTS (CABINET DETAIL "Y") AT 36" OC MAX TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
 - PROVIDE END SPLASH WHEN COUNTERTOP IS ADJACENT TO WALL AT SIDES.
 - PROVIDE HOLES FOR GROMMETS IN COUNTERTOPS WHERE NOTED WITH "G" AND AT THE FOLLOWING LOCATIONS:
 - 1 EACH WIRE ACCESS HOLE WITH GROMMET AT KNEE SPACE.
 - WIRE ACCESS HOLES WITH GROMMETS AT 36" OC FOR CONTINUOUS RUNS OF KNEE SPACE.
 - PROVIDE ADJUSTABLE SHELVES IN CABINETS AT THE FOLLOWING LOCATIONS UNO ON ELEVATIONS:
 - BASE CABINET - 1 SHELF
 - FULL HEIGHT CABINET - 5 SHELVES, 1 FIXED
 - WALL CABINET - 1 SHELF AT 24" HIGH, 2 SHELVES AT TALLER CABINETS
 NOTE: SHELVES TO BE 1" THICK TYPICAL.
 - PROVIDE AN APRON AT ALL KNEE SPACES 30" OR HIGHER UNO.
 - COUNTERTOP EDGE PROFILE SHALL BE AS SHOWN IN CABINET TYPICAL DETAILS AND AS SPECIFIED.

TYPICAL CABINET DIMENSIONS

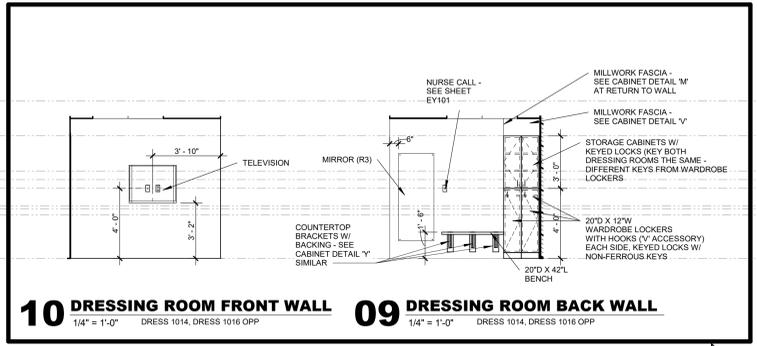


TYPICAL STUD WALL SUPPORTING 01 EQUIPMENT AND CABINETRY

1 1/4" = 1'-0"



DRESSING ROOM REMODEL WORK IS ALTERNATE #1



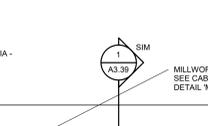
08 VESTIBULE

1/4" = 1'-0"



07 CONTROL WEST

1/4" = 1'-0"



06 CONTROL NORTH

1/4" = 1'-0"



12 VEST EAST WALL

1/4" = 1'-0"



05 MRI WEST WALL

1/4" = 1'-0"



04 MRI NORTH WALL

1/4" = 1'-0"



03 MRI EAST WALL

1/4" = 1'-0"



02 MRI WINDOW WALL

1/4" = 1'-0"





KEYED NOTES - DEMO

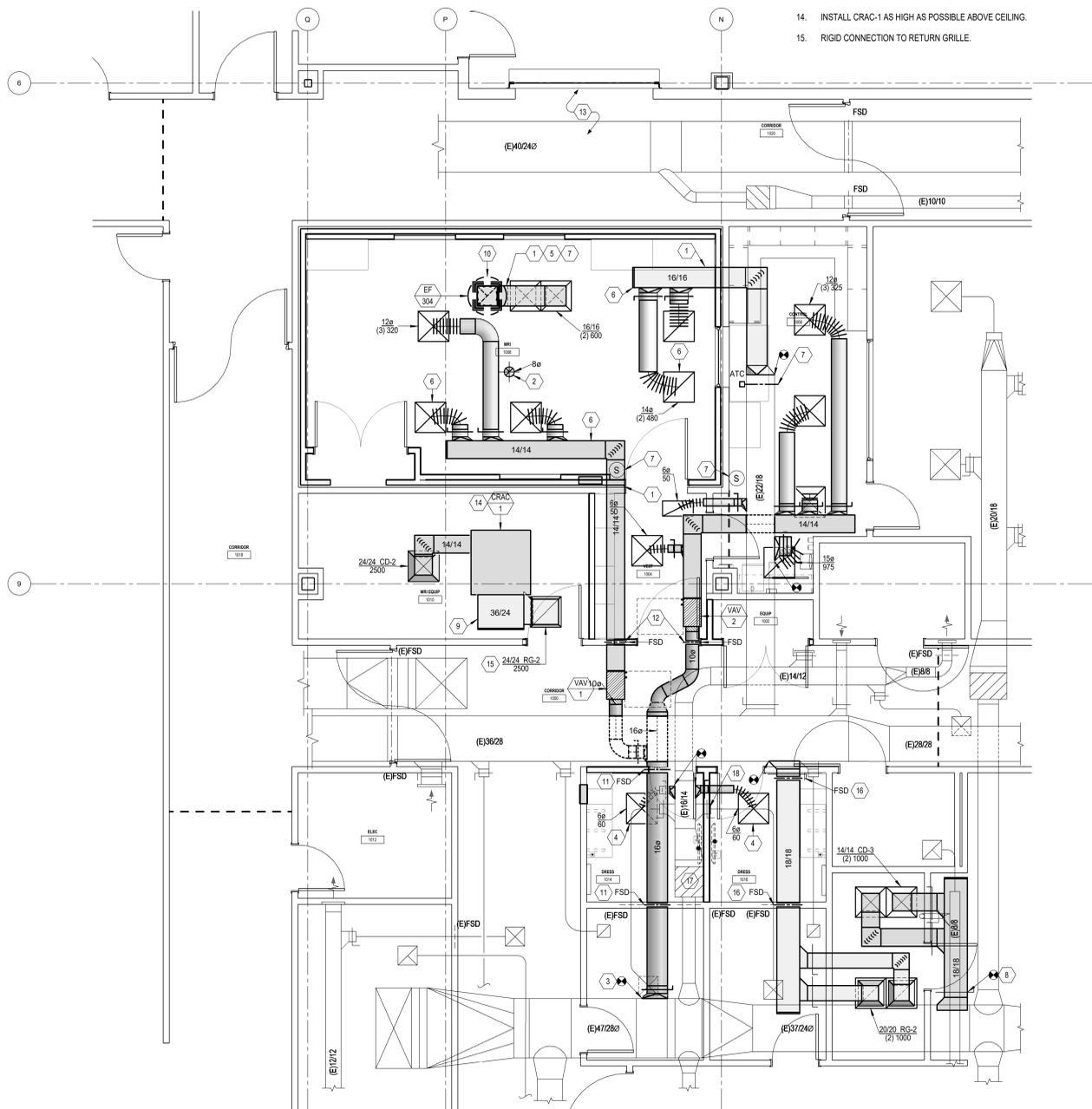
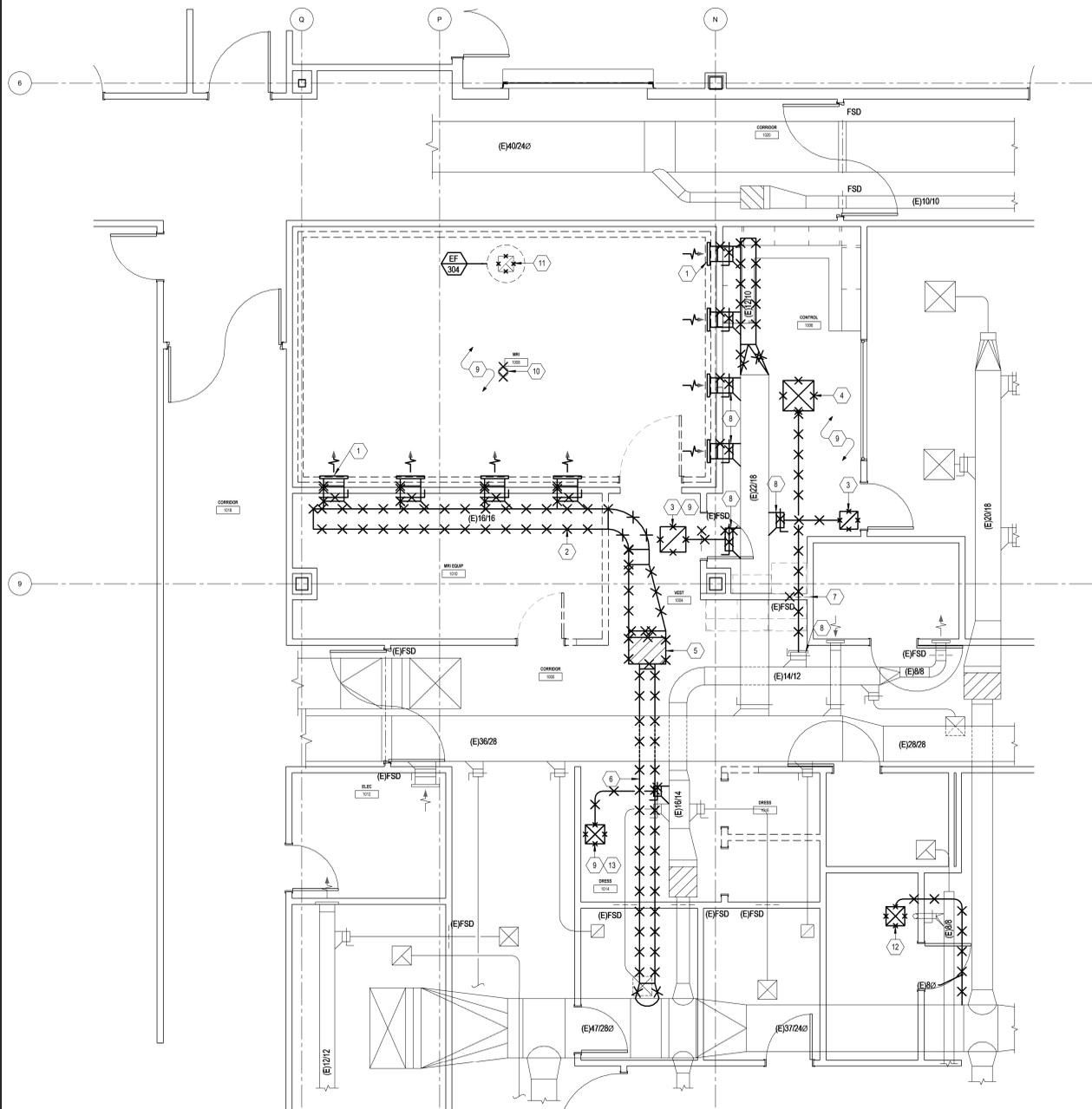
- DEMOLISH EXISTING SIDEWALL SUPPLIES AND RETURNS IN THE EXISTING MRI.
- DEMOLISH LOW PRESSURE SUPPLY DUCT THAT SERVES EXISTING MRI.
- DEMOLISH EXISTING RETURN GRILLES.
- DEMOLISH EXISTING SUPPLY DIFFUSERS.
- DEMOLISH EXISTING TERMINAL BOX THAT SERVES EXISTING MRI.
- DEMOLISH EXISTING MEDIUM PRESSURE SUPPLY DUCT BACK TO MAIN.
- DEMOLISH EXISTING FIRE SMOKE DAMPERS FROM SUPPLY AND RETURN DUCTS.
- CAP EXISTING SUPPLY DUCT.
- CONTRACTOR TO HAVE A PRE-READ DONE FOR EXISTING CONDITIONS BEFORE DEMOLITION.
- EXISTING 8" CRYOGEN VENT TO BE DEMOLISHED FROM MRI UNIT. EXISTING ROOF PENETRATION TO REMAIN. NEW VENTING TO USE SAME ROOF PENETRATION. CONTRACTOR TO VERIFY VENT SIZE.
- DEMOLISH EXISTING EXHAUST FAN ON ROOF AND ASSOCIATED DUCTWORK THAT SERVES MRI.
- DEMOLISH EXISTING SUPPLY TO MRI UPS ROOM. DEMOLISH BACK TO MEDIUM PRESSURE MAIN.
- CONTRACTOR TO DEMOLISH EXISTING DIFFUSER AND DUCT THAT SERVES DRESS 1014 IF ADD ALT IS ACCEPTED. IF ADD ALT IS NOT ACCEPTED, DIFFUSER IS TO REMAIN.

KEYED NOTES

- INSTALL FIRE SMOKE DAMPER IN EAST WALL OF DRESSING ROOM IF ADD ALT IS ACCEPTED. INSTALL FIRE SMOKE DAMPER IN WEST WALL IF ADD ALT IS NOT ACCEPTED.
- CONTRACTOR TO KEEP EXISTING TERMINAL BOX SERVICEABLE WHEN ADDING NEW 16" SUPPLY DUCT. IF ADD ALT ACCEPTED AND INTERFERES WITH THE EXISTING TERMINAL BOX, CONTRACTOR TO MODIFY LOCATION OF EXISTING TERMINAL BOX TO KEEP SERVICE CLEARANCES.
- CONTRACTOR TO MODIFY EXISTING BALANCING DAMPER AND TAKE OFF IF IT WILL BE LOCATED IN THE NEW DRESSING ROOM WALL IF ADD ALT IS ACCEPTED. REWORK IF NEEDED TO MAKE IT ACCESSIBLE FOR FUTURE SERVICE.

KEYED NOTES

- COORDINATE DUCT PENETRATIONS THROUGH SHIELDING.
- NEW CRYOGEN VENT FROM MRI TO CONNECT TO EXISTING 8" VENT AT ROOF PENETRATION.
- INSTALL NEW 16" MEDIUM PRESSURE SUPPLY DUCT FROM SUPPLY MAIN.
- INSTALL SUPPLY DIFFUSERS IN DRESSING ROOMS IF ADD ALT IS ACCEPTED. BOTH WILL BE 60 CFM FOR HEATING. IF ADD ALT IS NOT ACCEPTED, EXISTING SUPPLY DIFFUSER IS TO REMAIN.
- NEW EXHAUST DUCT TO CONNECT TO EXHAUST FAN ON ROOF.
- ALL DUCT, DIFFUSERS, AND GRILLES INSTALLED BELOW SHIELDING TO BE CONSTRUCTED OF ALUMINUM.
- INTERLOCK FAN SWITCHES IN MRI & CONTROL ROOM WITH CRYOGEN EXHAUST FAN AND ATC DAMPER IN MRI RETURN DUCT. ATC DAMPER TO CLOSE WHEN EXHAUST FAN IS ENERGIZED.
- INSTALL HIGH EFFICIENCY TAKE-OFF FROM EXISTING MEDIUM PRESSURE DUCT TO SERVE MRI UPS ROOM. INSTALL BALANCING DAMPER ON NEW SUPPLY BRANCH DUCT AS CLOSE TO MEDIUM PRESSURE MAIN AS POSSIBLE. DUCT TO HAVE 1" LINER. IT IS INTENDED THAT THIS NEW DUCT IS CONSTRUCTED BELOW THE EXISTING EXHAUST DUCT.
- CONTRACTOR TO ORDER FILTER BOX WITH COMPUTER UNIT.
- INSTALL NEW CRYOGEN EXHAUST FAN. CONTRACTOR TO REWORK OR REPLACE CURB, TRANSITION TO NEW FAN OUTLET/ CURB SIZE.
- INSTALL FIRE SMOKE DAMPER IN EAST WALL OF DRESSING ROOM IF ADD ALT IS ACCEPTED. INSTALL FIRE SMOKE DAMPER IN WEST WALL IF ADD ALT IS NOT ACCEPTED.
- INSTALL FIRE SMOKE DAMPER AT LOCATION. PROVIDE CLEARANCE TO ACCESS FROM CORRIDOR.
- COORDINATE WHEN CEILING IS REMOVED WITH SPRINKLER HEADS, GRILLES, DIFFUSERS, ETC. THAT MAY BE BELOW CEILING AND COULD BE DAMAGED DURING THE REPLACEMENT OF THE MRI EQUIPMENT.
- INSTALL CRAC-1 AS HIGH AS POSSIBLE ABOVE CEILING.
- RIGID CONNECTION TO RETURN GRILLE.



1 LEVEL 1 MECHANICAL DEMOLITION FLOOR PLAN
1/4" = 1'-0"

2 LEVEL 1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"

KEY PLAN

REVISION NO. DESCRIPTION DATE

HKS PROJECT NUMBER
23798.000
DATE
03/23/2020
ISSUE
CONSTRUCTION DOCUMENTS
SHEET TITLE
LEVEL 1 MECHANICAL FLOOR PLANS
SHEET NO.
M1.01



TIMPANOGOS MRI REMODEL

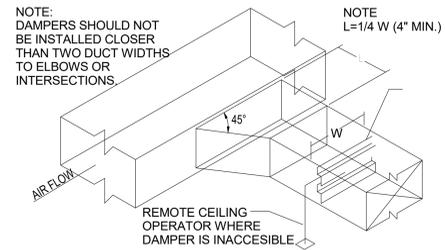
KEY PLAN

REVISION NO. DESCRIPTION DATE

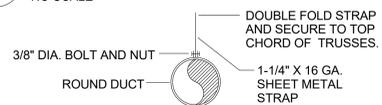
HKS PROJECT NUMBER
23798.000
DATE
03/23/2020
ISSUE
CONSTRUCTION DOCUMENTS SHEET TITLE MECHANICAL DETAILS

SHEET NO.

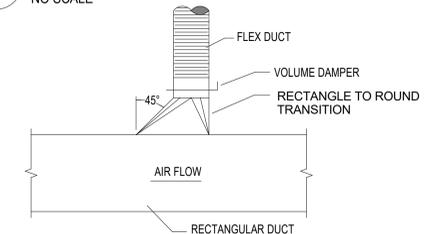
M5.01



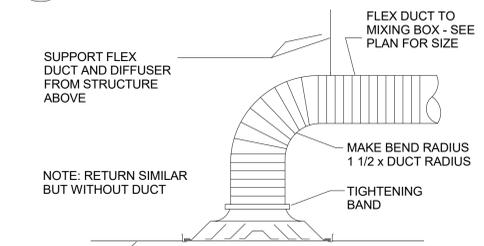
1
M5.01
BRANCH DUCT TAKE-OFF & DAMPER DETAIL
NO SCALE



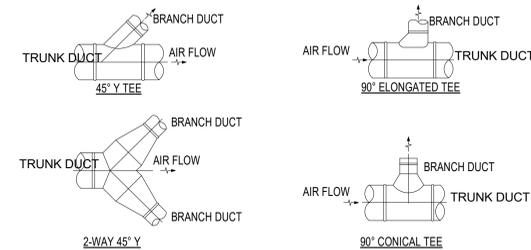
2
M5.01
ROUND DUCT SUPPORT DETAIL
NO SCALE



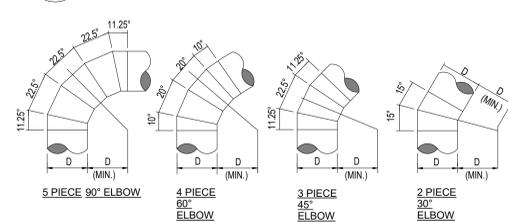
3
M5.01
HIGH EFFICIENCY TAKE-OFF DETAIL
NO SCALE



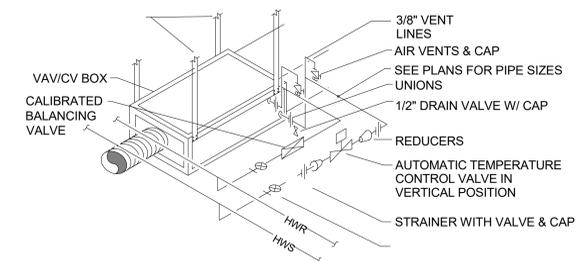
4
M5.01
DIFFUSER CONNECTION DETAIL
NO SCALE



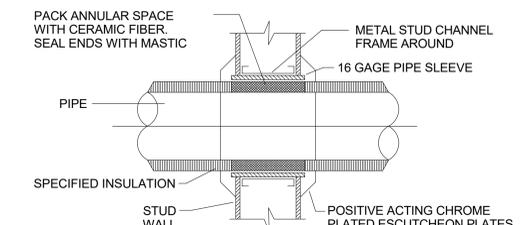
5
M5.01
ROUND DUCT BRANCH TAKE-OFF DETAILS
NO SCALE



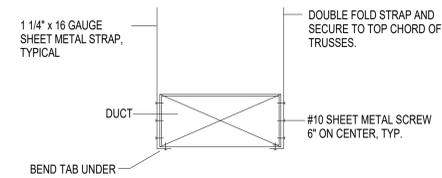
6
M5.01
ROUND DUCT ELBOW DETAILS
NO SCALE



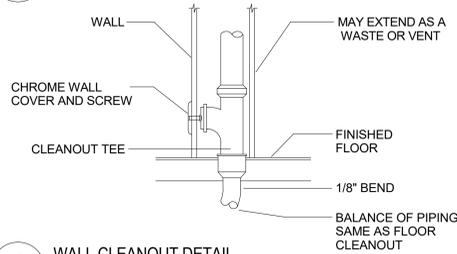
7
M5.01
VAV & CV BOX PIPING DETAIL WITH 2-WAY AUTO-VALVE
NO SCALE



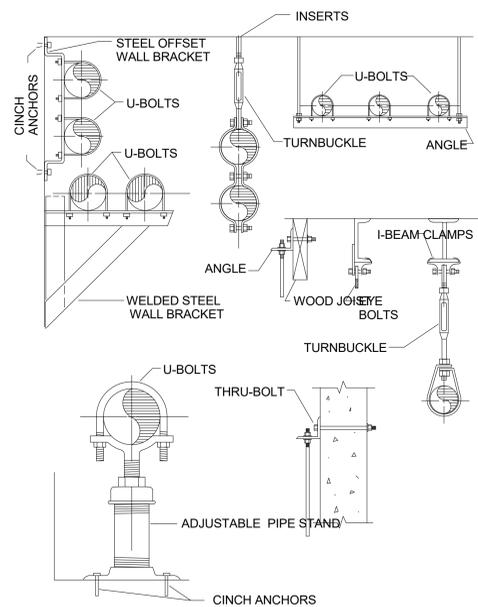
8
M5.01
PIPE THROUGH STUD WALL DETAIL
NO SCALE



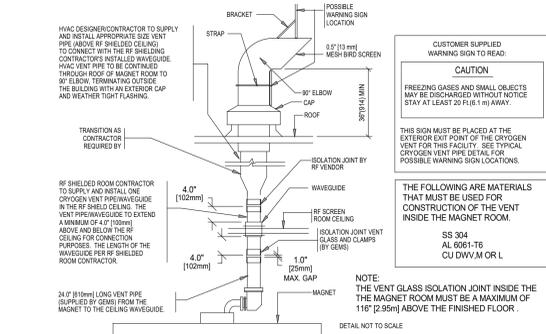
9
M5.01
RECTANGULAR DUCT SUPPORT
NO SCALE



10
M5.01
WALL CLEANOUT DETAIL
NO SCALE



11
M5.01
TYPICAL PIPE SUPPORT DETAIL
NO SCALE



12
M5.01
TYPICAL CRYOGEN VENT PIPE DETAIL
NO SCALE

(THIS TABLE MUST BE USED FOR CRYOGENIC VENT SYSTEM DESIGN)

NOTE: DUCT DIAMETER OF VENT PIPE (INCH)	DISTANCE OF VENT SYSTEM COMPONENT FROM MAGNET (FT)	PRESSURE DROP (STRAIGHT VENT PIPE WITH SMOOTH INSIDE SURFACE) (PSF)		STANDARD SWEEP 45° ELBOW (PSF)		STANDARD SWEEP 90° ELBOW (PSF)		LONG SWEEP 45° ELBOW (PSF)		LONG SWEEP 90° ELBOW (PSF)	
		(INCH)	(FT)	(INCH)	(FT)	(INCH)	(FT)	(INCH)	(FT)	(INCH)	(FT)
8(203)	0-20 (0-6.1)	0.10 (2.58)	1.10 (27.93)	0.10 (2.58)	2.06 (52.09)	0.56 (14.19)	0.56 (14.19)	1.03 (26.10)	1.03 (26.10)	1.89 (47.82)	1.89 (47.82)
	20-40 (6.1-12.2)	0.21 (5.35)	2.10 (54.46)	0.21 (5.35)	3.70 (95.21)	1.03 (26.10)	1.03 (26.10)	1.89 (47.82)	1.89 (47.82)	3.41 (87.02)	3.41 (87.02)
	40-60 (12.2-18.3)	0.36 (9.14)	2.98 (76.08)	0.36 (9.14)	5.25 (134.22)	1.46 (37.02)	1.46 (37.02)	2.61 (66.26)	2.61 (66.26)	4.81 (122.62)	4.81 (122.62)
	60-80 (18.3-24.4)	0.56 (14.19)	3.70 (95.21)	0.56 (14.19)	6.71 (172.27)	1.88 (47.78)	1.88 (47.78)	3.36 (85.37)	3.36 (85.37)	6.11 (155.66)	6.11 (155.66)
10(254)	0-20 (0-6.1)	0.03 (0.88)	0.55 (13.79)	0.03 (0.88)	0.82 (20.96)	0.27 (6.86)	0.27 (6.86)	0.41 (10.41)	0.41 (10.41)	0.75 (19.15)	0.75 (19.15)
	20-40 (6.1-12.2)	0.07 (1.78)	0.82 (20.96)	0.07 (1.78)	1.51 (38.41)	0.41 (10.41)	0.41 (10.41)	0.75 (19.15)	0.75 (19.15)	1.37 (34.85)	1.37 (34.85)
	40-60 (12.2-18.3)	0.10 (2.58)	1.23 (31.45)	0.10 (2.58)	2.19 (55.10)	0.62 (15.75)	0.62 (15.75)	1.10 (27.93)	1.10 (27.93)	2.11 (53.36)	2.11 (53.36)
	60-80 (18.3-24.4)	0.12 (2.71)	1.51 (38.41)	0.12 (2.71)	2.74 (69.89)	0.75 (19.15)	0.75 (19.15)	1.37 (34.85)	1.37 (34.85)	2.51 (63.86)	2.51 (63.86)
12(305)	0-20 (0-6.1)	0.013 (0.33)	0.27 (6.86)	0.013 (0.33)	0.41 (10.41)	0.14 (3.54)	0.14 (3.54)	0.21 (5.35)	0.21 (5.35)	0.41 (10.41)	0.41 (10.41)
	20-40 (6.1-12.2)	0.027 (0.69)	0.41 (10.41)	0.027 (0.69)	0.62 (15.75)	0.21 (5.35)	0.21 (5.35)	0.41 (10.41)	0.41 (10.41)	0.75 (19.15)	0.75 (19.15)
	40-60 (12.2-18.3)	0.041 (1.04)	0.55 (13.79)	0.041 (1.04)	1.10 (27.93)	0.27 (6.86)	0.27 (6.86)	0.55 (13.79)	0.55 (13.79)	1.03 (26.10)	1.03 (26.10)
	60-80 (18.3-24.4)	0.068 (1.72)	0.82 (20.96)	0.068 (1.72)	1.51 (38.41)	0.37 (9.40)	0.37 (9.40)	0.75 (19.15)	0.75 (19.15)	1.37 (34.85)	1.37 (34.85)
14(356)	0-20 (0-6.1)	0.008 (0.20)	0.08 (2.03)	0.008 (0.20)	0.14 (3.54)	0.08 (2.03)	0.08 (2.03)	0.14 (3.54)	0.14 (3.54)	0.21 (5.35)	0.21 (5.35)
	20-40 (6.1-12.2)	0.016 (0.41)	0.14 (3.54)	0.016 (0.41)	0.27 (6.86)	0.14 (3.54)	0.14 (3.54)	0.21 (5.35)	0.21 (5.35)	0.41 (10.41)	0.41 (10.41)
	40-60 (12.2-18.3)	0.024 (0.61)	0.21 (5.35)	0.024 (0.61)	0.41 (10.41)	0.21 (5.35)	0.21 (5.35)	0.41 (10.41)	0.41 (10.41)	0.75 (19.15)	0.75 (19.15)
	60-80 (18.3-24.4)	0.032 (0.81)	0.27 (6.86)	0.032 (0.81)	0.55 (13.79)	0.27 (6.86)	0.27 (6.86)	0.55 (13.79)	0.55 (13.79)	1.03 (26.10)	1.03 (26.10)
16(406)	0-20 (0-6.1)	0.005 (0.13)	0.05 (1.27)	0.005 (0.13)	0.08 (2.03)	0.05 (1.27)	0.05 (1.27)	0.08 (2.03)	0.08 (2.03)	0.14 (3.54)	0.14 (3.54)
	20-40 (6.1-12.2)	0.010 (0.26)	0.08 (2.03)	0.010 (0.26)	0.14 (3.54)	0.08 (2.03)	0.08 (2.03)	0.14 (3.54)	0.14 (3.54)	0.21 (5.35)	0.21 (5.35)
	40-60 (12.2-18.3)	0.015 (0.38)	0.12 (3.05)	0.015 (0.38)	0.21 (5.35)	0.12 (3.05)	0.12 (3.05)	0.21 (5.35)	0.21 (5.35)	0.41 (10.41)	0.41 (10.41)
	60-80 (18.3-24.4)	0.020 (0.51)	0.17 (4.27)	0.020 (0.51)	0.27 (6.86)	0.17 (4.27)	0.17 (4.27)	0.27 (6.86)	0.27 (6.86)	0.55 (13.79)	0.55 (13.79)

NOTE 1: ELBOWS WITH ANGLES GREATER THAN 90° MUST NOT BE USED.
NOTE 2: THE TABLE DATA IS BASED ON THE FOLLOWING:
A. INITIAL FLOW CONDITIONS AT MAGNET INTERFACES
B. GAS TEMPERATURE STARTING AT 4.3 KELVIN (-422° F OR -248° C)
C. HELIUM GAS FLOW RATE OF 2.00 CUBIC FEET (0.056 CUBIC METERS) PER MINUTE
D. 45° STANDARD SWEEP ELBOW = 15° F
E. 90° STANDARD SWEEP ELBOW = 30° F
F. 45° LONG SWEEP ELBOW = 15° F
G. 90° LONG SWEEP ELBOW = 30° F
NOTE 3: THE TOTAL PRESSURE DROP OF THE ENTIRE CRYOGENIC VENT SYSTEM MUST BE LESS THAN 17 PSF (117.2 KPA). THE CALCULATION STARTS AT THE MAGNET VENT INTERFACES AND ENDS AT THE TERMINATION POINT OUTSIDE THE BUILDING.
NOTE 4: FOR 14 IN (356mm) AND 16 IN (406mm) VENT PIPE DIAMETERS REFER TO PRE-INSTALLATION MANUAL REFERENCED ON SHEET C1.

14
M5.01
CRYOGEN VENT SYSTEM PRESSURE DROP MATRIX (A)
NO SCALE

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
01	DETAIL INDICATOR. A5 INDICATES DETAIL NUMBER. E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
02	ELEVATION OR SECTION INDICATOR. EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER. E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
03	ELEVATION OR SECTION INDICATOR. INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER. E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME	
04	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
05	KEYNOTE INDICATOR.
06	REVISION INDICATOR.
07	EQUIPMENT INDICATOR.
08	MECHANICAL EQUIPMENT INDICATOR. "X-X" 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
12	NEW LINE: MEDIUM LINE.
14	EXISTING TO REMAIN LINE: THIN LINE.
15	DEMOLITION LINE: DASHED, MEDIUM LINE
WIRING METHODS	
01	WIRING.
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. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #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 P = POWER FA = FIRE ALARM S = SOUND FO = FIBER OPTICS T = TELEPHONE I = INTERCOM 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, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS.
16	CABLE TRAY ABOVE ACCESSIBLE CEILING.
21	WIREWAY.
22	EARTH GROUND (ONE-LINE DIAGRAM).
23	JUNCTION BOX, CEILING.
25	LADDER RACK.
26	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
01	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
02	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
03	EMERGENCY.
04	NIGHT LIGHT: DO NOT SWITCH.
05	EGRESS DIRECTION ARROW (EXIT SIGNS).
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
LIGHTING CONTROL	
01	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
02	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
06	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
07	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
08	PHOTOCCELL.
18	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	DIGITAL LIGHTING DIMMING CONTROLLER
20	DIGITAL PLUG LOAD CONTROLLER
23	DIGITAL LIGHTING ROOM CONTROLLER
26	LIGHTING SPACE CONTROL TYPE: X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
WIRING DEVICES	
01	RECEPTACLE, SINGLE: NEMA 5-20R, EMERGENCY, HOSPITAL GRADE.
02	RECEPTACLE, DUPLEX: NEMA 5-20R.
03	RECEPTACLE, DUPLEX, ABOVE COUNTER: 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.
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, HOSPITAL GRADE: NEMA 5-20R.
17	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
18	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
22	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
23	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
24	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R.
25	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
27	RECEPTACLE, QUADRAPLEX 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.
32	RECEPTACLE, CLOCK HANGER: NEMA 5-15R.
33	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
34	DROP COORD. SEE DETAIL.
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).
42	SWITCH, THREE-WAY ("X" INDICATES FIXTURES CONTROLLED).
43	SWITCH, FOUR-WAY ("X" INDICATES FIXTURES CONTROLLED).
45	SWITCH, KEY OPERATED.
46	SWITCH, MOMENTARY.
53	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
54	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
56	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
57	RECEPTACLE, DULEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
58	RECEPTACLE, QUADRAPLEX, 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)
STRUCTURED CABLING	
01	COMMUNICATIONS DEVICE (1 DATA).
02	COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG).
03	COMMUNICATIONS DEVICE (1 DATA WALL PHONE).
04	COMMUNICATIONS DEVICE (2 DATA).
05	COMMUNICATIONS DEVICE (3 DATA).
07	COMMUNICATIONS DEVICE (4 DATA).
08	COMMUNICATIONS DEVICE (6 DATA).
09	COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR
09	COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2 DATA).
CLOCK	
01	CLOCK.
02	CLOCK, SURFACE WITH WIRE GUARD.
NURSE CALL	
01	JUNCTION BOX.
02	CORRIDOR LIGHT.
03	BATHROOM PULL CORD STATION.
04	DUTY STATION.
05	EMERGENCY ASSISTANCE CALL STATION.
06	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
07	PATIENT STATION.
08	STAFF STATION.
09	TOUCH SCREEN NURSE CALL MASTER STATION.
10	ZONE LIGHT CONTROLLER.
11	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
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).
10	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
11	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
12	MOTOR.
16	TRANSFORMER (ONE-LINE DIAGRAM).
20	DELTA CONNECTION (ONE-LINE DIAGRAM).
21	WYE CONNECTION (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).
29	PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM).
31	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
33	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
34	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
35	GENERATOR, POWER (ONE-LINE DIAGRAM).
36	METER.
38	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
41	DISCONNECT SWITCH, FUSED.
42	DISCONNECT SWITCH, UNFUSED.
43	STARTER, COMBINATION WITH DISCONNECT SWITCH.
44	STARTER OR MOTOR CONTROLLER.
45	PUSHBUTTON.
46	PUSHBUTTONS, MOTOR CONTROL.
47	PANELBOARD CABINET, FLUSH MOUNTED.
48	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
49	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
50	DISTRIBUTION PANEL OR SWITCHBOARD.
51	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
52	LIGHTING CONTROL STATION.
55	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
56	TRANSFORMER: NUMBER INDICATES KVA.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
SECURITY	
01	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
02	ACCESS CONTROL HEADEND EQUIPMENT.
03	SECURITY CONTROL PANEL.
04	INTRUSION DETECTION HEADEND EQUIPMENT.
05	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
06	CARD READER.
07	KEYPAD/CARD READER COMBINATION.
08	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
09	CIRCUIT BREAKER.
0CBA	CUSTOM COLOR AS SELECTED BY ARCHITECT
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/CI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CND	CONDUIT
CO	CONVENIENCE OUTLET
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
DBA	UNIT OF SOUND LEVEL
DPBT	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRIC NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF EQUIPMENT
EX	EXISTING
FA	FURNITURE MOUNTED
F	FIRE ALARM
FCA	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FNB	FREIGHT ON BOARD
FNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HQA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
I/O	INPUT/OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INIS	INSULATED/ISOLATED
IR	INFRARED
J-BOX	JUNCTION BOX
FIRE ALARM	
01	FIRE SYSTEM ANNUNCIATOR.
02	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
03	FIRE ALARM NOTIFICATION POWER SUPPLY.
07	CONTROL MODULE.
08	MONITOR MODULE.
09	FIRE ALARM MANUAL PULL STATION.
11	MAGNETIC DOOR HOLDER.
15	DETECTOR, SMOKE.
22	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
23	DETECTOR, HEAT.
25	STROBE.
27	ALARM, HORN/SPEAKER, WEATHERPROOF.
28	ALARM, HORN/STROBE, ONE ASSEMBLY.
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	SMOKE DAMPER.
38	FIRE AND SMOKE DAMPER.
42	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
43	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
44	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVOLT	KILOVOLT AMPERE REACTIVE
2WC	TWO-CONDUCTOR	KWH	KILOWATT HOUR
2WAY	TWO-WAY	KWD	KILOWATT DIODE
3/C	THREE-CONDUCTOR	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3WAY	THREE-WAY	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4WAY	FOUR-WAY	LPS	LOW PRESSURE SODIUM LOCKED ROTOR AMPS
4PST	FOUR-POLE SINGLE THROW	LTG	LIGHTING
4W	FOUR-WIRE	LV	LOW VOLTAGE
4WAY	FOUR-WAY	MA	MASTER ANTENNA TELEVISION SYSTEM
AF	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFB	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFJ	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AMP	AMPERE	MDD	MAIN DISTRIBUTION PANEL
ANN	ANNUNCIATOR	MG	MOTOR GENERATOR
AP	AS REQUIRED POINT (WIRELESS DATA)	MH	MANHOLE
AR	AS REQUESTED	MIN	MINIMUM
AS	AS SPECIFIED	MIS	MIS ONLY
ATC	AMPS SHORT CIRCUIT AUTOMATIC TRANSFER SWITCH	MOC	MAXIMUM OVERCURRENT PROTECTION
AV	AUDIO VISUAL	MTS	MANUAL TRANSFER SWITCH
BB	BELOW	NA	NOT APPLICABLE
BB	BELOW	NC	NORMALLY CLOSED
AVG	AMERICAN WIRE GAGE	NEC	NATIONAL ELECTRICAL CODE
BB	BELOW	NEL	NIGHT LIGHT
BFM	BUCK-BOOST TRANSFORMER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CF	CEILING MOUNTED	NFC	NATIONAL FIRE CODE
CB	COMMUNITY ANTENNA TELEVISION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NLO	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	NTS	NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OC	ON CENTER
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OCP	OVER CURRENT PROTECTION
CKT	CIRCUIT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CM	CONSTRUCTION MANAGER	OF/CI	OWNER FURNISHED/ OWNER INSTALLED
CND	CONDUIT	OPF	OBTAIN FROM PLANS
CO	CONVENIENCE OUTLET	OH DR	OVERHEAD (COILING) DOOR
COR	CONTRACTING OFFICER'S REPRESENTATIVE	OL	OVERLOAD
CP	CURRENT TRANSFORMER	PF	PUSHBUTTON
CT	CABLE TELEVISION	PF	POWER FACTOR
CU	COPPER	PNL	PANEL
DBA	UNIT OF SOUND LEVEL	PTZ	PANTILT/ZOOM
DPBT	DOUBLE POLE, DOUBLE THROW	QTY	QUANTITY
DS	DISCONNECT SWITCH	R	REMOVE
EA	EACH	RCP	REFLECTED CEILING PLAN
EM	EMERGENCY	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RNC	RIGID NONMETAL CONDUIT
ENT	ELECTRIC NONMETALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
EPO	EMERGENCY POWER OFF EQUIPMENT	RR	REMOVE AND RELOCATE
EQUIP	EQUIPMENT	SIS	START/STOP
EX	EXISTING	SCA	SHORT CIRCUIT AMPS
FA	FURNITURE MOUNTED	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
F	FIRE ALARM	SF	SQUARE FOOT (FEET)
FCA	FIRE ALARM CONTROL PANEL	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FLA	FULL LOAD AMPS	SPD	SURGE PROTECTIVE DEVICE
FMC	FLEXIBLE METAL CONDUIT	SPDT	SINGLE POLE, DOUBLE THROW
FNB	FREIGHT ON BOARD	SPEC	SPECIFICATION
FNR	FULL VOLTAGE NON-REVERSING	SPST	SINGLE POLE, SINGLE THROW
FVR	FULL VOLTAGE REVERSING	ST	SINGLE THROW
G	GROUND	SWBD	SWITCHBOARD
GEN	GENERATOR	SWGR	SWITCHGEAR
GFCI	GROUND FAULT INTERRUPTER	TL	TWIST LOCK
GFP	GROUND FAULT PROTECTION	TP	TELEPHONE POLE
HD	HEAVY DUTY	TP	TWISTED PAIR
HID	HIGH INTENSITY DISCHARGE	TTB	TELEPHONE TERMINAL BOARD
HQA	HAND-OFF-AUTOMATIC	TV	TELEVISION
HP	HORSE POWER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
HPF	HIGH POWER FACTOR	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	UF	UNDERFLOOR
HV	HIGH VOLTAGE	UGND	UNDERGROUND
HZ	HERTZ	UN	UNINTERRUPTIBLE POWER SUPPLY
I/O	INPUT/OUTPUT	V	VOLTS
IG	ISOLATED GROUND	V	VOLT AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VCF/VF	VARIABLE FREQUENCY MOTOR CONTROLLER
INIS	INSULATED/ISOLATED	W	WITH
IR	INFRARED	WO	WITHOUT
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
		XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES	
1.	CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OF THE DOCUMENTS, ETC. SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
2.	EQUIPMENT FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASS

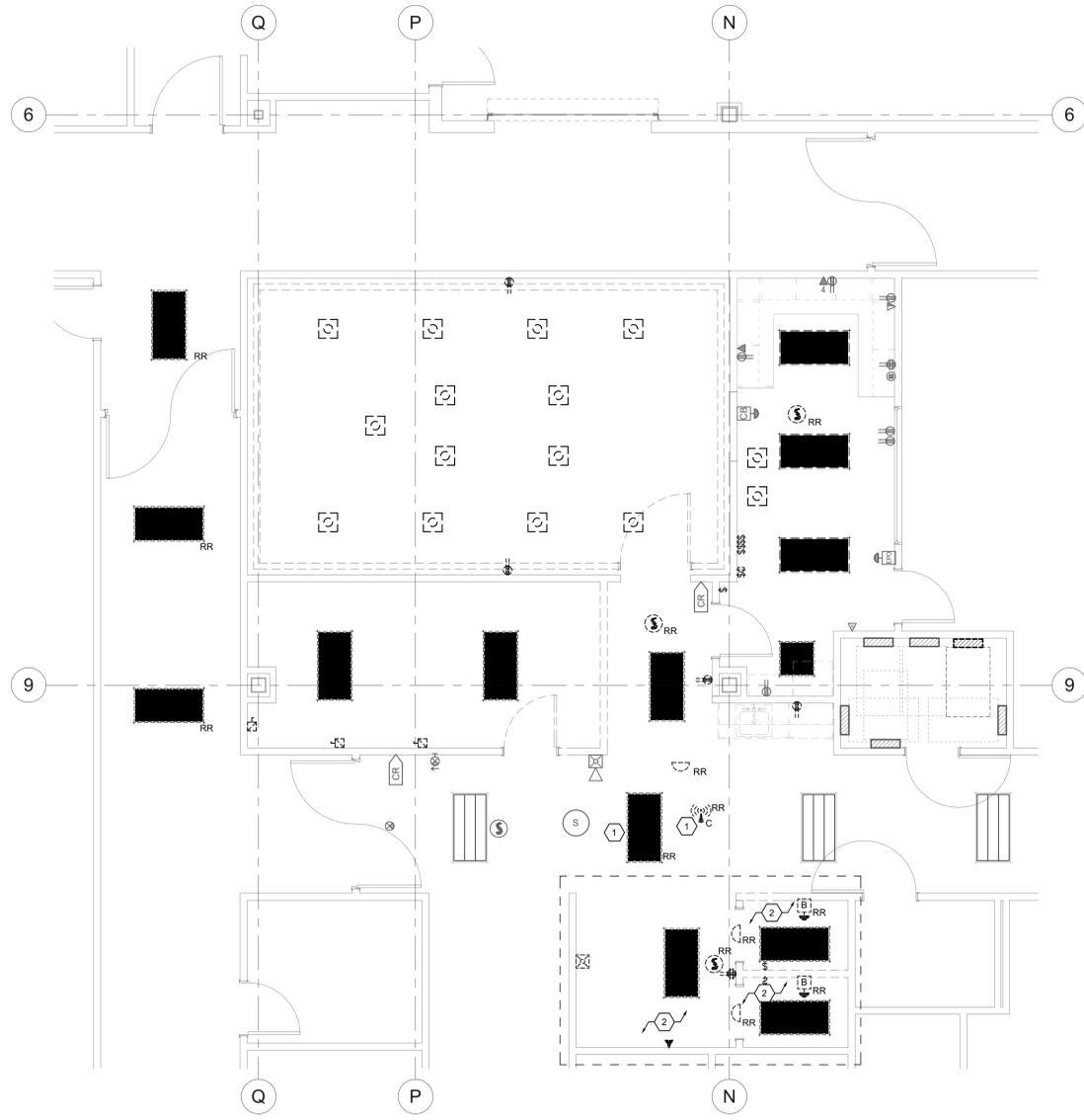


GENERAL SHEET NOTES

- 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.
- 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 REMOVE AND REINSTALL PER NEW PLANS AS REQUIRED TO FACILITATE INSTALLATION OF DUCTWORK.
- 2 THE DEMOLITION OF ALL FIXTURES AND DEVICES IN THIS AREA TO BE INCLUDED IN ADD ALTERNATE #1. BASE BID SHALL INCLUDE THE DEMOLITION AND REINSTALLATION OF ALL OF THE CEILING MOUNTED DEVICES IN THIS AREA.



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

KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
23798.000
DATE
05/08/20
ISSUE
CONSTRUCTION DOCUMENTS
SHEET TITLE
LEVEL 1 DEMOLITION PLANS
SHEET NO.
ED101



**TIMPANOGOS
MRI RETROFIT**



SHEET KEYNOTES

- 1 PROVIDE NEW SWITCHGEAR SECTION TO EXTEND EXISTING MAIN CUTLER-HAMMER SWITCHGEAR.
- 2 CONDUIT ROUTING FOR POWER TO THE NEW MRI CHILLER TO FOLLOW THE ROUTING OF THE CHILLER WATER PIPING INTO THE BUILDING. REFER TO MECHANICAL SHEET M2.02.



1 LEVEL 1 OVERALL POWER PLAN
SCALE: 3/32" = 1'-0"

KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
23798.000
DATE
05/08/20
ISSUE
CONSTRUCTION DOCUMENTS
SHEET TITLE
LEVEL 1 OVERALL POWER PLAN

SHEET NO.
EP100

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