HILLCREST HIGH PANTRY REMODEL

BID SET
05/17/2024

DRAWING INDEX

ABBREVIATIONS

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

MATERIAL LEGEND

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

SYMBOLS LEGEND

ROOM IDENTIFICATION NUMBER — ROOM NAME / NUM — ROOM NAME, ROOM NUMBER

DOOR NUMBER — XXX

REFERENCE NOTE — XX.XX

GLAZING TYPE — X

PARTITON WALL TYPE — XX

INTERIOR ELEVATION — A1, A2, A3, A4; SHADE INDICATES ELEVATED WALL; ELEVATION NUMBER; SHEET NUMBER

BUILDING SECTION — SECTION NUMBER; SHEET NUMBER

WALL SECTION — SECTION NUMBER; SHEET NUMBER

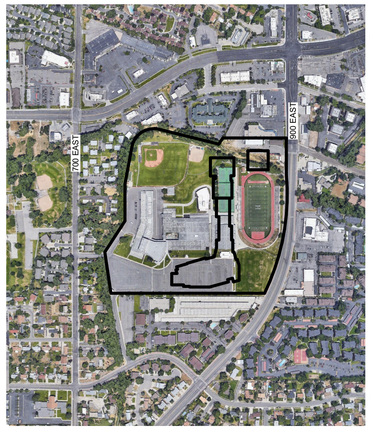
EXTERIOR ELEVATION — ELEVATION NUMBER; SHEET NUMBER

DETAIL — DETAIL NUMBER; SHEET NUMBER

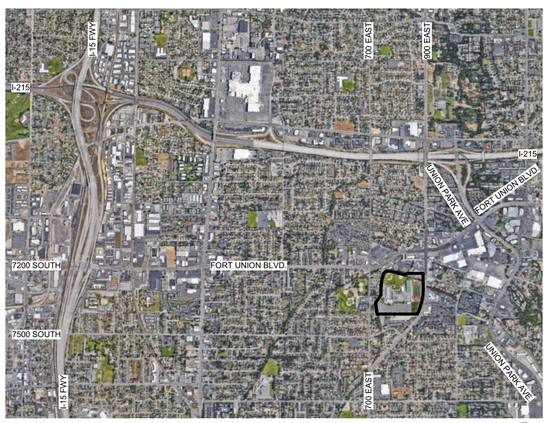
DETAIL TITLE — A1 DETAIL, SCALE:

REVISION DELTA — 2 REVISION NUMBER

SITE MAP



VICINITY MAP



PROJECT TEAM

PROJECT ARCHITECT
FFKR Architects
730 PACIFIC AVENUE
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801.521.6186

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REGISTERED PROFESSIONAL ENGINEER — DAVID P. WHITTON — No.264397 — STATE OF UTAH — 2024/05/17

LANDSCAPE

KITCHEN

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HILLCREST HIGH PANTRY REMODEL
7350 SOUTH 900 EAST, MIDVALE, UT 84047

PROJECT NUMBER:
24036

PHASE 2						
Applicable Codes						
Code						Year
International Building Code (IBC)						2021
International Mechanical Code (IMC)						2021
International Plumbing Code (IPC)						2021
International Fire Code (IFC)						2021
International Energy Conservation Code (IECC)						2021
National Electrical Code (NEC)						2020
International Existing Building Code (IEBC)						2021
ADA Accessibility Guidelines						2018

MODIFICATIONS MADE TO THE PLAN IN THIS SCOPE OF WORK ADDS (1) TOILET FIXTURE AND (1) LAVATORY TO THE OVERALL BUILDING COUNT. OCCUPANCY COUNTS ARE NOT CHANGED.

PHASE 2						
Plumbing Fixture Calculations (Section 29)						
Total Women's Fixtures	Occupants	2,529			Table 2902.1	
Water Closets	Required	51	Provided	58	1:	50
Lavatories	Required	51	Provided	54	1:	50
Bathtub/Shower	Required	0	Provided	0	1:	0
Total Men's Fixtures	Occupants	2,529			Table 2902.1	
Water Closets/Urinals	Required	51	Provided		1:	50
Water Closets			Provided	32		
Urinals			Provided	27		
Lavatories	Required	51	Provided	52	1:	50
Total Misc. Fixtures					Table 2902.1	
Electric Water Cooler	Required	51	Provided	54	See Sect. 1109.5	
Service Sink	Required	1	Provided	7		
Bathtub/Shower	Required	0	Provided	3		

PHASE 2 - FIRE AREA 3 (BUILDING 3)			
International Building Code (IBC) Analysis			
Construction Type	II-A		Sect. 602
Building Occupancies	E		Sect. 508
Design Building Area	175,824	SF	
Design Building Height (Stories)	4	Stories	
Design Building Height (Ft)	73.3333	Ft	
Allowed Building Area	280,635	SF	Table 506.2 per SM
Allowed Building Height (Stories)	4	Stories	Table 504.4
Allowed Building Height (Ft)	85	Ft	

PHASE 2 - FIRE AREA 3			
Building Square Footage			
Floor Level 0	N/A	SF	
Floor Level 1	42,972	SF	
Floor Level 2	44,284	SF	
Floor Level 3	44,284	SF	
Floor Level 4	44,284	SF	
Total	175,824	SF	

PHASE 2 - FIRE AREA 3					
Building Occupancy & Construction TYpe					
Occupancy Of Building	Single		Separated Occupancies	No	Table 508.4
Most Restrictive Occ	E		Construction Type	II-A	Chapter 6

PHASE 2 - FIRE AREA 3			
Fire Resistance Ratings for Building Elements - hours (Table 601 - Substitution 903.2)			
Are Fire Sprinklers Required		Yes	Sect. 903.2
Building Element		Tabular	Substituted
Primary Structural Frame (See Section 202)		1 *	0
Bearing Walls - Exterior		1	0
Bearing Walls - Interior		1	0
Nonbearing Walls & Partitions - Exterior		See Table 602	
Nonbearing Walls & Partitions - Interior		0	0
Floor Construction (See Section 202)		1 *	0
Roof Construction (See Section 202)		1	0

PHASE 2 - FIRE AREA 3		
Shaft Enclosure Fire Rating (Section 713.4)		
Shaft Enclosure Fire Rating	2	Hours
Stories (including Basements)	4	

PHASE 2 - FIRE AREA 3 / BUILDING 3	
Occupant Load (Section 1004)	
Floor Level 1	804 Occupants
Floor Level 2	920 Occupants
Floor Level 3	917 Occupants
Floor Level 4	913 Occupants
Total For Fire Area 3	3,554 Occupants

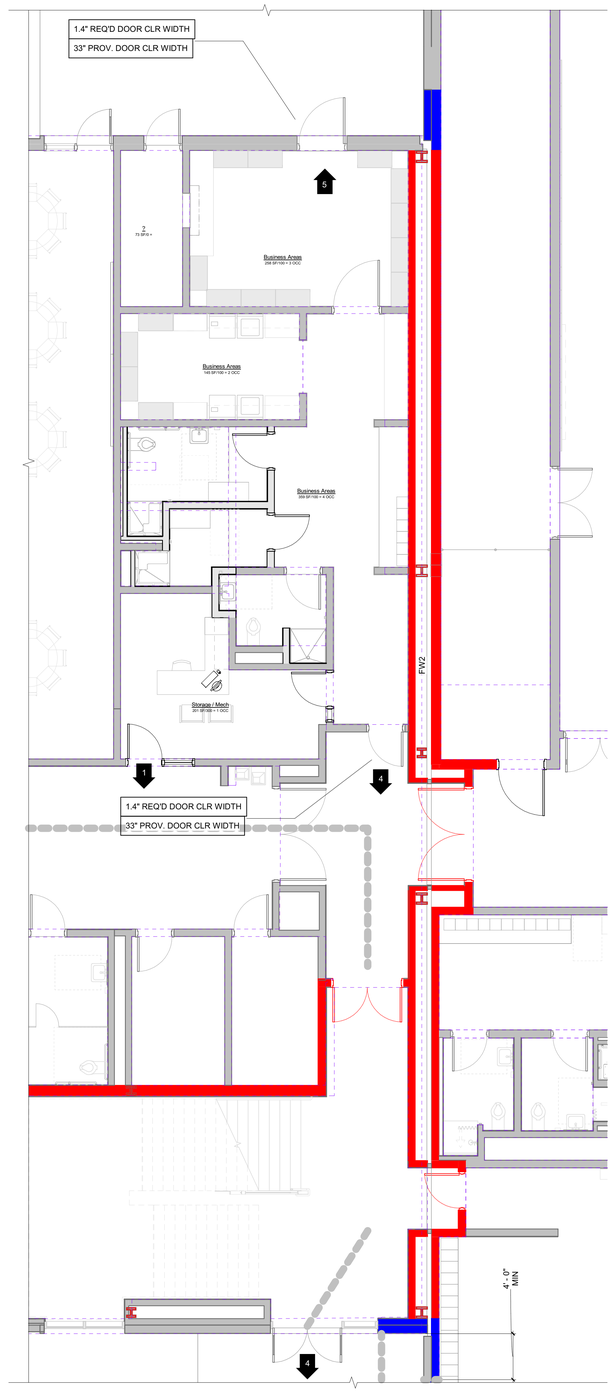
* PRIMARY STRUCTURE FRAME AND FLOOR ASSEMBLY AS PER UL D902 CONSTRUCTION BEING PROVIDED AS A 1HR FIRE RATING. WHERE INDICATED ON SHEETS G021 - G024 REQUIRED BY WALL TYPE TO FACILITATE THE 2HR FIRE/ BUILDING SEPARATION WALLS AND SHAFT WALLS. STRUCTURE FRAME AND FLOOR CONSTRUCTION TO BE AS PER UL D764.

TOTAL OCCUPANT LOAD OF PANTRY AREA = 9

TOTAL REQUIRED DOOR WIDTH : 44" MINIMUM

TOTAL PROVIDED DOOR WIDTH = 72"

FIRE/BUILDING AREA
III



1 LEVEL 1 AREA D-E - PANTRY
SCALE: 3/16" = 1'-0"

REFERENCE NOTES

OCCUPANCY TYPES

ACCESSORY STORAGE AREAS MECH EQUIP ROOM
ASSEMBLY W/ FIXED SEATS
ASSEMLY W/O FIXED SEATS CONCENTRATED
ASEEMBLY W/O FIXED SEATS STANDING SPACE
EDUCATIONAL CLASSROOM AREA
EXERCISE ROOMS
LOCKER ROOMS

LEGEND

FB1 — RATED WALL ASSEMBLY CODE

CODE	DESCRIPTION
EW1	EXTERIOR WALL - 1 HOUR
EW2	EXTERIOR WALL - 2 HOUR
FB1	FIRE BARRIER - 1 HOUR
FB2	FIRE BARRIER - 2 HOUR
FW2	FIRE WALL - 2 HOUR
SW	SMOKE WALL

CODE	DESCRIPTION
DOOR	45 MINUTE
DOOR	60 MINUTE
DOOR	90 MINUTE

RATED WALL ASSEMBLY

NON-RATED WALL ASSEMBLY

PATH OF EGRESS

OCCUPANCY AREA BOUNDARY

LIFE SAFETY ARROW

00 NUMBER OF OCCUPANTS

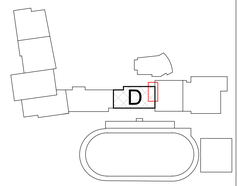
FIRE EXTINGUISHER FE

AED DEFIBRILLATOR AED

ADA COMPANION SEAT C

CODE PLANS SHOULD BE VIEWED IN COLOR.

KEY PLAN



Phase 1

Phase 2

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CANYONS SCHOOL DISTRICT
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ELIZABETH ANN MORGAN
No. 8484735-0301
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LICENSED ARCHITECT

△ DATE REVISION

PROJECT NUMBER 24036

CODE PLAN & CODE TABLES

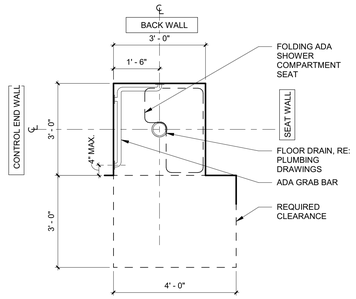
G025

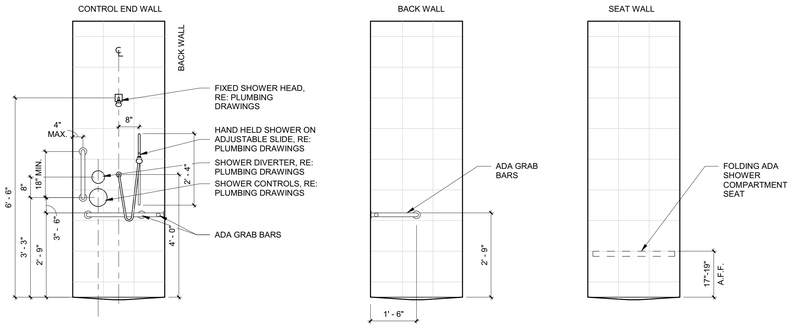
5/17/2024 10:57:17 AM

REFERENCE NOTES

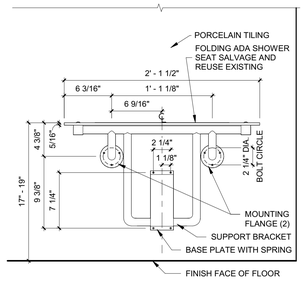
SHOWER NOTES:
1. ALL ACCESSIBLE SHOWERS ARE TO COMPLY WITH ALL ANSI AND ADAAG REQUIREMENTS.
2. CONTROLS AND HANDSHOWER LOCATION PER ANSI SECTION 608.5.1
3. REFERENCE MECHANICAL DRAWINGS FOR ALL PLUMBING FIXTURE TYPES, MOUNTING REQUIREMENTS AND CONFIGURATION.

GRAB BAR NOTES:
1. INSTALL TO WITHSTAND A DOWNWARD LOAD OF AT LEAST 250 LBS, WHEN TESTED ACCORDING TO ASTM F446.

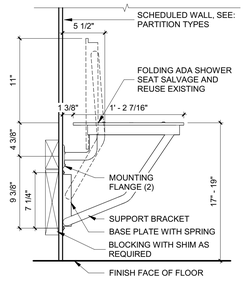




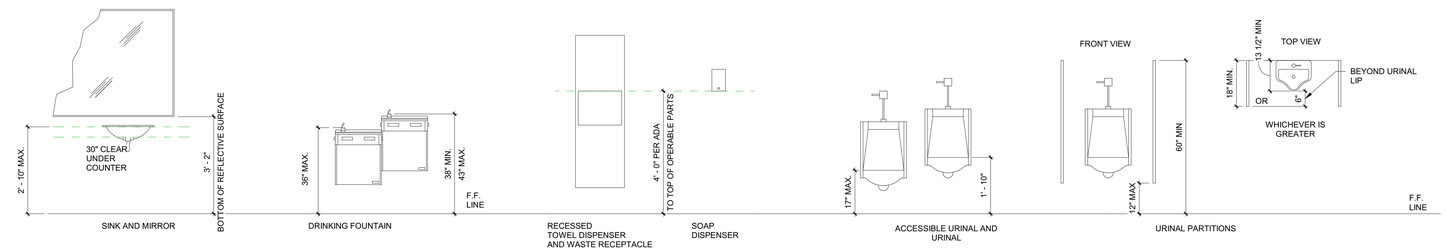
C1 TYPICAL ADA TRANSFER SHOWER DETAIL
SCALE: 1/2" = 1'-0"

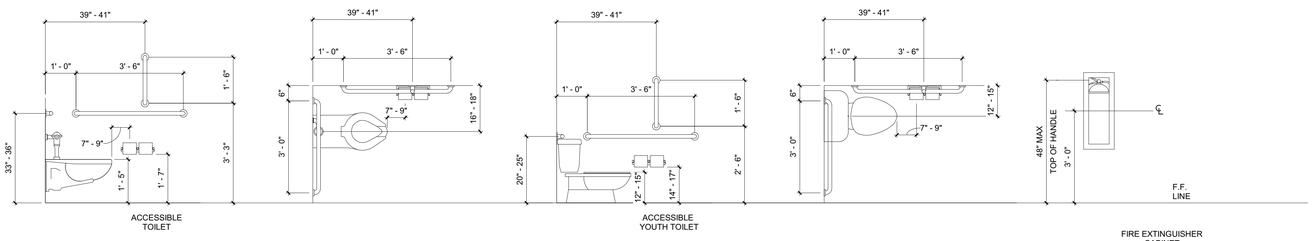


C4 SHOWER SEAT FRONT
SCALE: 1 1/2" = 1'-0"



C5 SHOWER SEAT SIDE
SCALE: 1 1/2" = 1'-0"





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

GENERAL NOTES

1. ALL DIMENSIONS ARE FACE OF CONCRETE, FACE OF , MASONRY OR CENTER OF STUD UNLESS NOTED OTHERWISE.
2. SEE SHEET G300 FOR ALL TYPICAL ADA DIMENSIONS.
3. ALL STEEL TO BE PAINTED, U.N.O.
4. ALL GYMNASIUM FLOORS TO HAVE VENTED COVE BASE.
5. RE FACE MASONRY UNITS TO PROVIDE CORRESPONDING COLOR WHERE TWO STORY SPACES ARE ADJACENT TO TWO FLOORS.
6. TYP. ALL CERAMIC TILE IS ALIGNED AT TOP OF WALL.
7. PAINT ALL GYP BOARD U.N.O.
8. PAINT ALL SMOOTH FACE MASONRY U.N.O.
9. NOTATIONS NOTED WITH REFERENCE NOTE INDICATES MATERIAL CALLOUTS. SEE FINISH SCHEDULE.
10. FILLER/ CLOSER TO MATCH CABINETS AT ALL MILLWORK CORNERS. TOP AND SIDE.
11. PROVIDE BACKING AT ALL WALL MOUNTED EQUIPMENT & FIXTURES INCLUDING, MONITORS, GRAB BARS, HANDRAILS , PAPER TOWELS, ETC.
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13. PROVIDE LOCKS ON ALL MILLWORK CABINETS AND DRAWERS.
14. STANDPIPE CABINETS ARE TO BE SURFACE MOUNTED. CABINET CANNOT ENCROACH INTO THE REQUIRED EXIT WIDTH.

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TYPICAL ADA DIMENSIONS

G300

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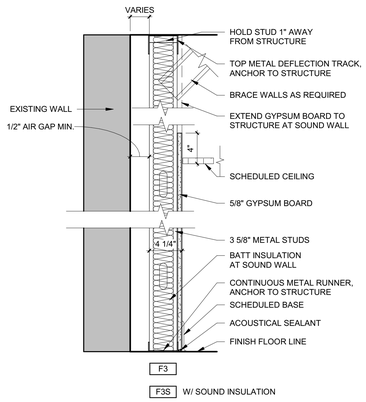
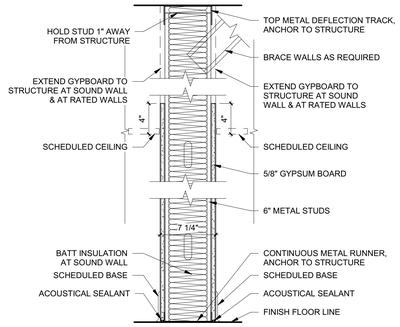


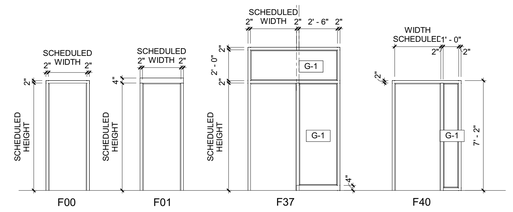
F3

F3S W/ SOUND INSULATION



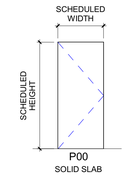
P6 PROVIDE ASSEMBLY COMPLIANT W/ UL U419 1 HR RATED SYSTEM AS INDICATED ON SHEET G200 OR EQUAL

P6S W/ SOUND INSULATION



DOOR FRAMES - PANTRY REMODEL

SCALE: N.T.S.

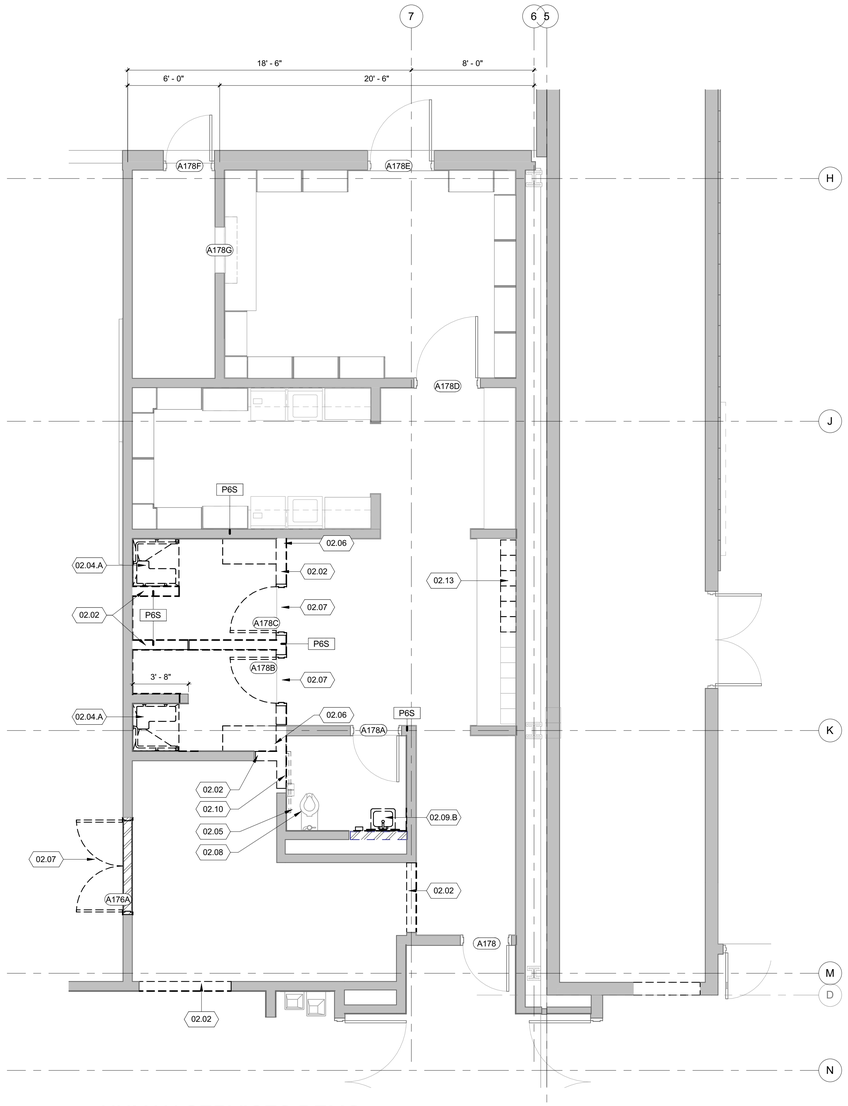


DOOR PANEL

SCALE: N.T.S.

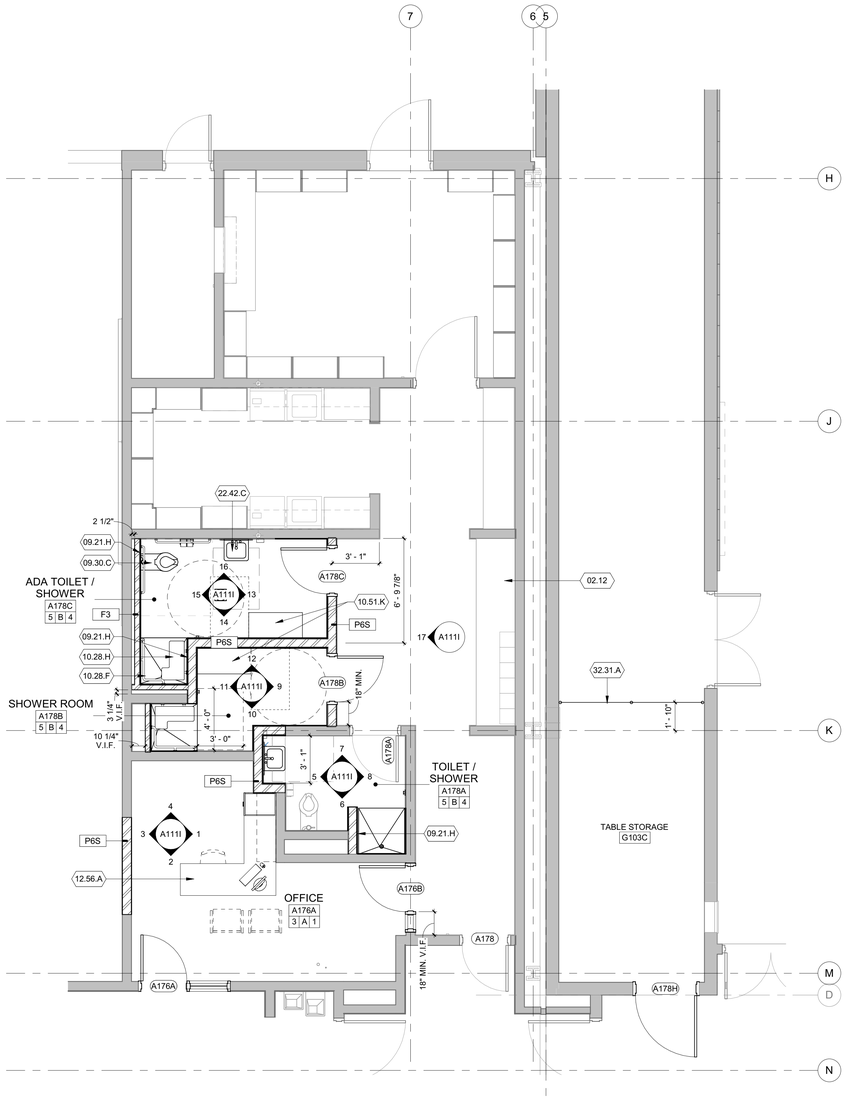
DOOR AND FRAME SCHEDULE - PANTRY REMODEL

DOOR NUMBER	SIZE			DOOR			FRAME		FIRE RATING (MINUTES)	HARDWARE		NOTES	REVISION
	WIDTH	HEIGHT	THICK	LEAF 1 TYPE	LEAF 2 TYPE	MATERIAL	TYPE	MATERIAL		HEAD DETAIL	JAMB DETAIL		
LEVEL 1													
A176A	3' - 0"	7' - 0"	1 3/4"	P00		WD	F37	HM	0	DR001	DR005		
A176B	3' - 0"	7' - 0"	1 3/4"	P00		WD	F40 : F40 2	HM	0	DR001	DR002		
A178	3' - 0"	7' - 0"	1 3/4"	P00		WD	F00	HM	0	DR004	DR005	EXISTING TO REMAIN	
A178A	3' - 0"	7' - 0"	1 3/4"	P00		HM	F00	HM	0	DR004	DR005	EXISTING TO REMAIN	
A178B	3' - 0"	7' - 0"	1 3/4"	P00		HM	F00	HM	0	DR004	DR005	REVERSE DOOR SWING, SALVAGE DOOR FOR REUSE.	
A178C	3' - 0"	7' - 0"	1 3/4"	P00		HM	F00	HM	0	DR004	DR005	SALVAGE FOR REUSE	
A178D	4' - 0"	7' - 0"	1 3/4"	P00		HM	F00	HM	0	DR001	DR002	EXISTING TO REMAIN	
A178E	4' - 0"	7' - 0"	1 3/4"	P00		HM	F01	HM	0	DR033	DR056	EXISTING TO REMAIN	
A178F	3' - 0"	7' - 0"	1 3/4"	P00		HM	F01	HM	0	DR033	DR056	EXISTING TO REMAIN	
A178G	3' - 0"	4' - 0"		P200			-			DR057		EXISTING TO REMAIN	
A178H	4' - 0"	7' - 0"	1 3/4"	P00		WD	F00	HM	0	DR010	DR011	REVERSE DOOR SWING, SALVAGE DOOR FOR REUSE.	



A1 HUMAN SERVICES DEMO

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



A5 HUMAN SERVICES REMODEL

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

REFERENCE NOTES

02.02	EXISTING WALL TO BE REMOVED
02.04.A	EXISTING SHOWER TO BE REMOVED AND SALVAGED FOR REUSE
02.05	EXISTING GRAB BAR TO BE REMOVED AND SALVAGED FOR REUSE
02.06	EXISTING BENCH TO BE REMOVED AND SALVAGED FOR REUSE
02.07	EXISTING DOOR AND FRAME TO BE REMOVED AND SALVAGED FOR REUSE
02.08	EXISTING TOILET TO REMAIN
02.09.B	EXISTING SINK TO BE REMOVED AND SALVAGED FOR REUSE
02.10	EXISTING TOILET PAPER DISPENSER TO BE REMOVED AND SALVAGED FOR REUSE
02.12	PATCH AND REPAIR EXISTING WALL FINISH
02.13	EXISTING LOCKERS TO BE REMOVED AND SALVAGED FOR REUSE
09.21.H	PROVIDE PLYWOOD BACKING WHERE REQUIRED FOR EQUIPMENT INSTALLATION
09.30.C	PORCELAIN TILING
10.28.F	ADA SHOWER GRAB BAR
10.28.H	FOLDING ADA SHOWER SEAT SALVAGE AND REUSE EXISTING
10.51.K	FOLDING ADA LOCKER ROOM BENCH, WALL MOUNTED. SALVAGE AND REUSE EXISTING.
12.56.A	FURNITURE, OPOI
22.42.C	LAVATORY: SEE PLUMBING
32.31.A	CHAIN LINK FENCE

FINISH LEGEND

Room name
101
F B W

ROOM IS NOT ELEVATED, ALL FINISHES ARE SHOWN IN THE TAG

ONLY FLOOR FINISH, SEE ROOM'S INTERIOR ELEVATIONS FOR VERTICAL FINISHES

F = FLOOR FINISH
B = BASE FINISH
W = WALL FINISH

NF = NO FINISH
* = SEE FINISH TAG ON LARGE SCALE DRAWING

SEE FINISH LEGEND FOR FINISHES

FLOOR FINISH
1 POLISHED CONCRETE
2 SEALED CONCRETE
3 CARPET TILE
4 WALK-OFF CARPET TILE
5 PORCELAIN TILE
6 QUARRY TILE
7 VINYL COMPOSITION TILE
8 RUBBER SPORTS FLOORING
9 SYNTHETIC SPORTS FLOOR
10 GYMNASIUM FLOOR
11 SYNTHETIC TURF SURFACE
12 MULTIPLE FINISHES
13 STAGE FLOOR
14 STAINED CONCRETE
15 DANCE FLOOR
16 LUXURY VINYL TILE
17 RESILIENT SHEET
18 CARPET TILE: CPT - 3
19 CARPET TILE: CPT - 4
20 CARPET TILE: CPT - 5
21 BROADLOOM CARPET: CPT - 6
22 TERRAZO

BASE FINISH
A RUBBER
B TILE COVE BASE
C EPOXY EXPANSION CAULK
D VENT COVE BASE
E MULTIPLE FINISHES, SEE INTERIOR EVEVATIONS

WALL FINISH
1 PAINTED
2 EPOXY PAINTED
3 PORCELAIN TILE TO 7', U.N.O.
4 CERAMIC TILE, FULL HEIGHT
5 PADDED WALLS, SEE SPECIFICATIONS
6 HONED INTEGRALLY COLORED MASONRY
7 CONCRETE, PAINTED
8 WOOD
9 MULTIPLE FINISHES, SEE INTERIOR EVEVATIONS
10 CEMENT FIBER BOARD

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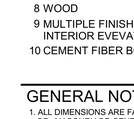
DESIGN DEVELOPMENT - 03/27/2024



△ DATE REVISION

PROJECT NUMBER 24036

ENLARGED PLAN & ELEVATION - LVL1 - AREA D

A110

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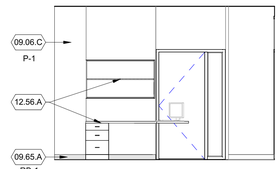
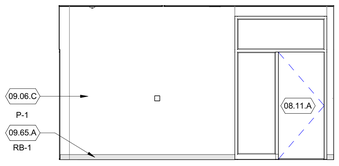


1 A176A - NORTH
SCALE: 1/4" = 1'-0"



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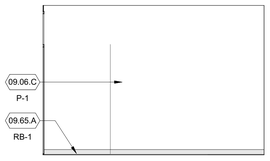

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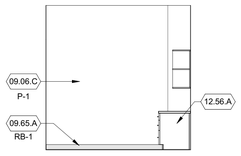

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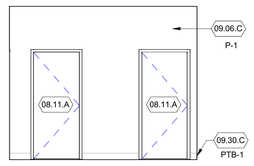

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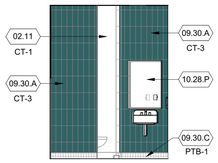

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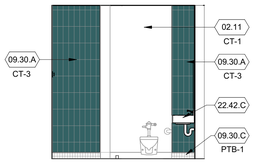

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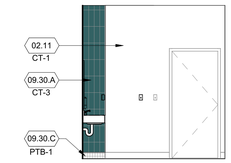

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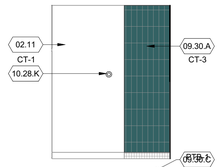
SCALE: 1/4" = 1'-0"



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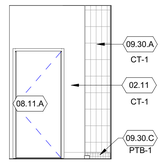

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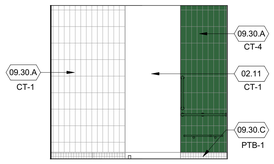

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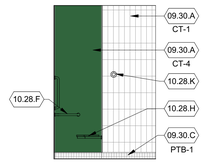

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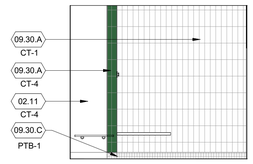

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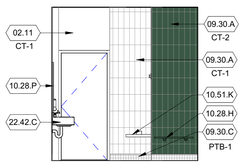

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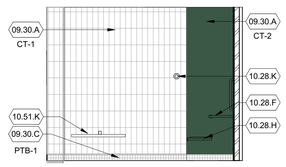

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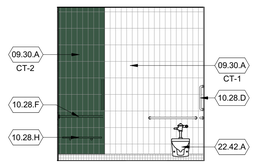

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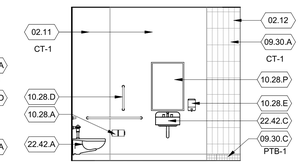


16 A178C - WEST
SCALE: 1/4" = 1'-0"

FINISH LEGEND PANTRY REMODEL							
CODE	PRODUCT TYPE	MANUFACTURER	Style	COLOR	SPECIFICATIONS	NOTES	REVISION
BASE							
PTB-1	PORCELAIN TILE	DALTILE	KEYSTONE BUILT UP COVE RANDOM BLEND BASE	DESERT GRAY SPECKLE (D200)	SIZE: 2" x 2". GROUT TO BE SELECTED FROM MAMUFACTURER'S FULL RANGE OF COLORS. CAP ALL EXPOSED TILE EDGES WITH ALUMINUM TRIM.	@ RESTROOM WALL BASE. REFER TO REFERENCE PLANS FOR LOCATIONS.SOURCED FROM DISTRICT BACKSTOCK	
RB-1	RUBBER BASE	JOHNSONITE	COLOR MATCH TRADIONAL RUBBER TOE	20-CHARCOAL WG		EXISTING TO REMAIN, INFILL WHERE REQUIRED BY DEMO	
CEILING							
ACT-1	ACOUSTICAL CEILING TILE	ROCKFON	ARCTIC	WHITE	SIZE: 2' x 4'. REFERENCE CEILING PLANS FOR LOCATIONS. EDGE: SQUARE.	ACT TILE FROM ATTIC STOCK, COORDINATE WITH DISTRICT	
FLOORING - PORCELAIN TILE							
PTF-1	PORCELAIN TILE	DALTILE	KEYSTONE RANDOM BLEND	50% ARCTIC WHITE (D617), 50% DESERT GRAY SPECKLE (D200)	SIZE: 2" x 2". GROUT TO BE SELECTED FROM MAMUFACTURER'S FULL RANGE OF COLORS. CAP ALL EXPOSED TILE EDGES WITH ALUMINUM TRIM.	@ RESTROOM FLOOR TILE. REFER TO REFERENCE PLANS FOR LOCATIONS.	
MISC.							
BOC-1	BLACK OUT CURTAIN	ROSE BRAND	ENCORE SYNTHETIC VELOUR, IFR	SELECTED FROM FULL RANGE OF COLORS	64" W, 22 OZ INHERANTLY FLAME RETARDANT		
PAINT							
P-1	PAINT	SHERWIN WILLIAMS		PURE WHITE SW7006	EPOXY @ LOCKER ROOMS, CUSTODIAL CLOSET, RESTROOMS, AND OFFICE.		
P-2	PAINT	SHERWIN WILLIAMS		COLOR MATCH RB-1		@ INTERIOR HOLLOW METAL DOOR AND DOOR TRIM	
WALL - CERAMIC TILE							
CT-1	CERAMIC TILE	AMERICAN OLEAN	URBAN CANVAS	DESIGNER WHITE 0061	SIZE: 4-1/4" x 12-3/4". CAP ALL EXPOSED TILE EDGES WITH ALUMINUM TRIM.INCLUDE CORRESPONDING COVE TILE WHERE APPLICABLE. ARCHITECT TO SELECT FROM FULL RANGE OF GROUT COLORS.	COORDINATE USE OF ATTICK STOCK TILE WITH DISTRICT	
CT-2	CERAMIC TILE	DALTILE	FESTIVA	QF64 ALPINE	SIZE: 4-1/4" x 12-3/4". CAP ALL EXPOSED TILE EDGES WITH ALUMINUM TRIM.INCLUDE CORRESPONDING COVE TILE WHERE APPLICABLE. ARCHITECT TO SELECT FROM FULL RANGE OF GROUT COLORS.	COORDINATE USE OF ATTICK STOCK TILE WITH DISTRICT	
CT-3	CERAMIC TILE	DALTILE	FESTIVA	QF62 PEACOCK	SIZE: 4-1/4" x 12-3/4". CAP ALL EXPOSED TILE EDGES WITH ALUMINUM TRIM.INCLUDE CORRESPONDING COVE TILE WHERE APPLICABLE. ARCHITECT TO SELECT FROM FULL RANGE OF GROUT COLORS.	COORDINATE USE OF ATTICK STOCK TILE WITH DISTRICT	
CT-4	CERAMIC TILE	DALTILE	FESTIVA	QF52 EVERGLADE	SIZE: 4-1/4" x 12-3/4". CAP ALL EXPOSED TILE EDGES WITH ALUMINUM TRIM.INCLUDE CORRESPONDING COVE TILE WHERE APPLICABLE. ARCHITECT TO SELECT FROM FULL RANGE OF GROUT COLORS.	COORDINATE USE OF ATTICK STOCK TILE WITH DISTRICT	

A4 LVL 1 - REFLECTED CEILING PLAN - HUMAN SERVICES REMODEL
SCALE: 1/4" = 1'-0"

02.11 EXISTING WALL AND FINISH TO REMAIN
02.12 PATCH AND REPAIR EXISTING WALL FINISH
08.11.A DOOR AND FRAME, SEE: SCHEDULE
09.06.C GYPSUM BOARD, PAINTED
09.30.A CERAMIC TILING
09.30.C PORCELAIN TILING
09.65.A RUBBER BASE. EXISTING TO REMAIN. INFILL WHERE REQUIRED.
10.28.A TOILET PAPER DISPENSER, OPOI
10.28.D GRAB BAR

REFERENCE NOTES

10.28.E SOAP DISPENSER, OPOI
10.28.F ADA SHOWER GRAB BAR
10.28.H FOLDING ADA SHOWER SEAT SALVAGE AND REUSE EXISTING
10.28.K ROBE HOOK
10.28.P MIRROR 4; 36"H X 24"W, SALVAGED AND REUSED WHERE POSSIBLE
10.51.K FOLDING ADA LOCKER ROOM BENCH, WALL MOUNTED. SALVAGE AND REUSE EXISTING.
11.61.C STAGE CURTAIN AND TRACK
12.56.A FURNITURE, OPOI
22.42.A WATER CLOSET: SEE PLUMBING
22.42.C LAVATORY: SEE PLUMBING

CEILING LEGEND

ROOM NAME
HEIGHT ABOVE FINISHED FLOOR — RM NO. / HT | C / PNT
C = CEILING TYPE
PNT = CEILING FINISH
LIGHT FIXTURES
SOLATUBE FIXTURES
MECHANICAL FIXTURES
ACOUSTIC DIFFUSER
FIRE SPRINKLERS

CEILING TYPE

A GYPSUM BOARD - SUSPENDED
B GYPSUM BOARD - FRAMED
C IMPACT RESISTANT GYPSUM BOARD
D ACOUSTICAL PANEL - TRIM EDGE (2x2) ACT-3
E ACOUSTICAL PANEL - TRIM EDGE ACT-1
F ACOUSTICAL PANEL - VINYL LAMINATED ACT-4
G GYPSUM BOARD - FIRE RATED ASSEMBLY
H TECTUM 2X4 PANEL IN CEILING GRID
J ACOUSTICAL BOARD CEILING ABC-1
K CERAMIC TILE
L HARDWOOD PANEL ON PLYWOOD
P GYPSUM BOARD - FRAMED & EPOXY PAINTED
S OPEN TO STRUCTURE, PAINTED
T TECTUM PANEL , OPEN TO STRUCTURE TFC-2
U OPEN TO STRUCTURE, FIREPROOF SPRAY
V OPEN TO STRUCTURE, CEILING NETS
W HARDWOOD GRILLE, OPEN TO STRUCTURE WDC-1
X PANELIZED HARDWOOD, OPEN TO STRUCTURE
Y PLYWOOD SHEATHING TOP AND BOTTOM
Z ACT-1 AND SOUND DIFFUSERS GD-1
AA ACOUSTICAL PANEL - TRIM EDGE ACT-5
BB ACOUSTICAL PANEL - TRIM EDGE ACT-6

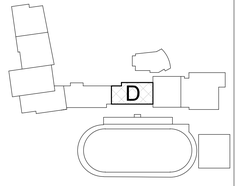
HEADER LEGEND

H1 MASONRY HEADER
H2 GYPSUM BOARD HEADER
H3 WOOD HEADER
H4 CONCRETE HEADER
H5 GYPSUM BOARD HEADER WITH TILE
H6 SOLID SURFACE HEADER
H7 GYPSUM BOARD HEADER W/ METAL PANEL

CEILING GENERAL NOTES

1. SLOPE CEILINGS AT SHOWERS 1/8" PER FOOT TOWARDS DRAIN.
2. ALL EXPOSED STRUCTURE/DECK, CONDUIT AND EQUIPMENT TO BE PAINTED INCLUDING BEHIND CEILING CLOUDS OR HARDWOOD GRILLE CEILINGS.
3. ALL CLASSROOM CEILINGS AT 10'-0" U.N.O.
4. CENTER CEILING TILE PATTERN IN ROOM AND SUCH THAT NO TILE DIMENSION IS LESS THAN 4", U.N.O.
5. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
6. CENTER OBJECTS IN BOTH DIRECTIONS WITHIN RECTANGLE THEY OCCUR, U.N.O.
7. REFER TO ELECTRICAL FOR SPECIFIC FIXTURE TYPE AND MOUNTING HEIGHT; PLACE AS PER ARCHITECTURAL DRAWINGS.
8. REFER TO MECHANICAL AND ELECTRIC FOR SPECIFIC FIXTURE AND DEVICE TYPES.
9. ALL GYPSUM BOARD CEILINGS IN WET AREAS TO BE EXPOXY PAINTED, U.N.O.
10. UNDERSIDE OF SOFFITS AND FACE OF SOFFITS TO MATCH ADJACENT WALL, U.N.O.
11. SEE CL SERIES DETAILS FOR TYPICAL CEILING DETAILS.
12. PAINT ALL HEADERS TO MATCH ADJACENT WALL FINISH, TYP., U.N.O.
13. REFER TO CEILING DETAILS FOR TYPICAL CEILING SUSPENSION AND SEISMIC BRACING.
14. WHERE FINISH IS ANNOTATED WITH ASTERICKS (*P-2*), CONTINUE HORIZONTAL FINISH UP VERTICAL FACE.
15. PAINT ALL MECHANICAL AND ELECTRICAL FIXTURES TO MATCH ADJACENT CEILING FINISH, TYP., U.N.O. COORDINATE WITH CONSULTANTS.
16. CONTRACTOR TO REVIEW ALL FIRE PROTECTION LINES & LOCATIONS IN EXPOSED AREAS WITH ARCHITECT PRIOR TO HYDRAULIC CALCULATIONS BEING COMPLETED FOR THE PROJECT.
17. RECESSED GYPSUM PANEL BOARD ACCESS PANELS REQUIRED AT ALL GYP BOARD CEILINGS.
18. FIRE PROTECTION HEADS TO BE LOCATED SUFFICIENTLY DISTANT TO CLEAR LIGHT FIXTURES.
19. ROLLER SHADES TO BE PROVIDED AT ALL EXTERIOR WINDOWS EXCLUDING MEDIA CENTER, COMMONS, AND COLLABORATION SPACES.

KEY PLAN



Phase 1
Phase 2

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

HILLCREST HIGH PANTRY REMODEL
7350 SOUTH 900 EAST, MIDVALE, UT 84047
CANYONS SCHOOL DISTRICT
PHASE II - CONFORMANCE SET - 02/19/2019

STATE OF UTAH
ELIZABETH ANN MORGAN
No. 8464735-0301
05.17.24
LICENSED ARCHITECT

△ DATE REVISION

PROJECT NUMBER 24036

PANTRY - RCP, INT. ELEVATIONS, FINISH SCHEDULE

A111I

5/17/2024 10:57:30 AM

LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

DUCTWORK/GRILLES

- POSITIVE PRESSURE DUCT - RISE
- POSITIVE PRESSURE DUCT - DROP
- NEGATIVE PRESSURE DUCT - RISE
- NEGATIVE PRESSURE DUCT - DROP
- ROUND DUCT - RISE
- ROUND DUCT - DROP
- UNDER FLOOR DUCT
- TURNING VANES
- FRESH AIR LOUVER
  WIDTH X HEIGHT
  O.A. LOUVER
- RELIEF AIR OR EXHAUST AIR LOUVER
  WIDTH X HEIGHT
  R.A. LOUVER
- 12/12 CD-1 (2) 200 — CEILING SUPPLY DIFFUSER
- 12/12 RG-1 (2) 200 — CEILING RETURN REGISTER
- CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
- 12/12 EG-1 (2) 200
- 12/12 SWS-1 (2) 200 — SIDEWALL SUPPLY REGISTER
- 12/12 SWR-1 (2) 200 — SIDEWALL EXHAUST OR RETURN REGISTER
- 12/12 CD-1 (2) 200 — CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
- 12/12 RG-1 (2) 200 — CEILING AIR GRILLE WITH FLEXIBLE DUCT

  TOP FIGURES INDICATE NECK SIZE AND TYPE.
  BOTTOM FIGURE INDICATES QUANTITY AND CFM.
- CEILING RETURN AIR GRILE W/ SOUND BOOT
- 12ø 4'-0"(1) - 1" SLOTS L-1 200 CFM (RADIUS) — LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. TOP : DUCT SIZE, ACTIVE LENGTH, NO. OF SLOTS & SIZE OF SLOT. BOTTOM: TYPE , CFM, RADIUS (IF APPLICABLE).
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- 12/8 FO — FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12/8 — RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12ø — ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- UP — INCLINED RISE
- DN — INCLINED DROP

  WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.
- W R — R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
- 12/12 8/8 — RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
- 12/12 12ø — RECTANGULAR TO ROUND DUCT TRANSFORMATION
- R 6 — BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
- 1.5D 1.25D 45° D D — TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
- 12ø 12/12 — HIGH EFFICIENCY FITTING
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
- FSD — COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
- SD — SMOKE DAMPER W/ ACCESS PANEL
- BDD — BACK DRAFT DAMPER
- ATC OR — ATC DAMPER
- AD — ACCESS PANEL IN DUCT OR PLENUM
- HEATING OR COOLING COIL IN DUCT
- SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
- 4-WAY BLOW PATTERN
- 3-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 1-WAY BLOW PATTERN
- SD — DUCT SMOKE DETECTOR

PIPING

- OR — SHUT OFF VALVE
- OR — BALL VALVE
- OR — BUTTERFLY VALVE
- MOTOR OPERATED BUTTERFLY VALVE
- OR — GATE VALVE
- GATE VALVE - NON RISING STEM
- OR — ANGLE VALVE
- OR — GLOBE VALVE
- OR — PLUG VALVE
- SHUT OFF PLUG VALVE FOR FOR USE WITH PRESSURE GAUGE
- OR — CHECK VALVE
- OR — LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
- F&T — F&T=FLOAT & THERMOSTATIC
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
- OR — PRESSURE REDUCING VALVE EXTERNAL PRESSURE
- OR — PRESSURE REDUCING VALVE SELF CONTAINED
- OR — ATC - 2 WAY VALVE
- OR — ATC - 3 WAY VALVE
- SOLENOID VALVE
- 0.0 GPM OR — CALIBRATED BALANCING VALVE WITH GPM INDICATED
- VENTURI FLOW METER
- GPM LB/HR. — FLOW METER ORIFICE
- OR — RELIEF VALVE
- AIR VENT-MANUAL
- A — AIR VENT-AUTO
- FLOW SWITCH
- PS — PRESSURE SENSOR
- OR — TEMPERATURE AND PRESSURE TEST PORT
- THERMOMETER WELL
- THERMOMETER - TEMP RANGE AS INDICATED
- PRESSURE GAUGE WITH SHUT OFF PLUG VALVE
- PRESSURE GAUGE WITH PIGTAIL
- OR — UNION
- OR — FLANGE
- OR — FLEXIBLE EXPANSION JOINT
- REDUCER
- ECCENTRIC REDUCER
- BRANCH - BOTTOM CONNECTION
- BRANCH - TOP CONNECTION
- BRANCH - SIDE CONNECTION
- RISE OR DROP
- RISER - DOWN (ELBOW)
- RISER - UP (ELBOW)
- PIPE CAP
- ARROW INDICATES DIRECTION OF FLOW IN PIPE
- DN — LEADER INDICATES DOWNWORD SLOPE
- VALVE IN RISE
- OR — 90° ELBOW
- 45° ELBOW
- ALIGNMENT GUIDE
- ANCHOR

PLUMBING

- THERMOSTATIC MIXING VALVE
- HOSE BIBB
- FLOOR SINK
- FLOOR DRAIN
- FCO COTG — FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
- ROOF DRAIN
- DOWNSPOUT NOZZLE
- VTR — VENT THRU ROOF
- WATER HAMMER ARRESTOR
- CLEAN-OUT
- FILL PORT
- DRAIN PAN AND P-TRAP
- (NAME) — FIXTURE FROM LEVEL ABOVE
- DEMOLITION

EQUIPMENT

- UNIT HEATER
- INLINE PUMP
- INLINE PUMP
- FAN

FIRE

- HOSE VALVE
- NRS GATE VALVE WITH SUPERVISION
- FLOW SWITCH
- FIRE RISER
- SPRINKLER HEAD
- F — FIRE SPRINKLER WATER

ANNOTATIONS

- P-1 — PLUMBING FIXTURES
- POINT OF CONNECTION
- A / M-101 — SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
- A / M101 — DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
- EQUIPMENT IDENTIFICATION
- KEYED NOTE IDENTIFICATION
- SW — SWITCH
- S — SENSOR
- T — THERMOSTAT
- T N — NIGHT THERMOSTAT

LINETYPES

- AV — ACID VENT
- AW — ACID WASTE
- BBD — BOILER BLOW DOWN
- BF — BOILER FEED WATER
- B — BRINE
- BWS — BUILDING WATER SUPPLY
- BWR — BUILDING WATER RETURN
- C02 — CARBON DIOXIDE
- CA — COMPRESSED AIR
- CF — CHEMICAL FEED
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- DCW — DOMESTIC COLD WATER (DCW)
- DHW — DOMESTIC HOT WATER (DHW)
- DHWR — DOMESTIC HOT WATER RETURN (DHWR)
- DI — DEIONIZED WATER SUPPLY
- DIR — DEIONIZED WATER RETURN
- E(NAME) — EXISTING PIPING
- (NAME) — EXISTING PIPING TO BE REMOVED
- GHR — GLYCOL HEAT RECOVERY PIPING
- G(NAME) — GLYCOL PIPING SOLUTION
- FOR — FUEL OIL RETURN
- FOS — FUEL OIL SUPPLY
- FOV — FUEL OIL VENT
- FVS — FLUSH VALVE SUPPLY
- G — NATURAL GAS
- HG — HOT GAS
- HFR — HELICOPTER FUEL RETURN
- HFS — HELICOPTER FUEL SUPPLY
- HP(NAME) — HIGH PRESSURE DOMESTIC WATER
- HPC — HIGH PRESSURE CONDENSATE
- HPS — HIGH PRESSURE STEAM
- HWR — HEATING HOT WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- IA — INSTRUMENT AIR
- IA 120 — INSTRUMENT AIR AT PRESSURE INDICATED
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- IHWR — INDUSTRIAL HOT WATER RETURN
- ISCW — INDUSTRIAL SOFT COLD WATER
- LA — LAB AIR
- LV — LAB VACUUM
- LPC — LOW PRESSURE CONDENSATE
- LPG — LIQUIFIED PETROLEUM GAS
- LPS — LOW PRESSURE STEAM
- LW — LAB WATER
- LWR — LAB WATER RETURN
- MPC — MEDIUM PRESSURE CONDENSATE
- MPS — MEDIUM PRESSURE STEAM

LINETYPES CONT.

- MUW — MAKE UP WATER
- MV — MEDICAL VACUUM
- N — NITROGEN
- N20 — NITROUS OXIDE
- OX — MEDICAL OXYGEN
- OX 120 — MEDICAL OXYGEN AT PRESSURE INDICATED
- PC — PUMPED CONDENSATE
- RO — REVERSE OSMOSIS WATER SUPPLY
- ROR — REVERSE OSMOSIS WATER RETURN
- RD — ROOF DRAIN
- RDO — ROOF DRAIN OVERFLOW
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- SEWER (BELOW GRADE)
- SEWER (ABOVE GRADE)
- SW — SOFT DOMESTIC WATER
- TW — TEMPERED WATER
- TWR — TEMPERED WATER RETURN
- V — VACUUM
- VENT (SEWER)
- GW — GREASE WASTE (SEWER) ALL CAST IRON PIPING
- OW — SAND/OIL WASTE (SEWER)

SHEET INDEX - HUMAN RESOURCE REMODEL

SHEET NUMBER	SHEET TITLE

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HILLCREST HIGH PANTRY REMODEL
7350 SOUTH 900 EAST, MIDVALE, UT 84047
CANYONS SCHOOL DISTRICT
BID SET - 05/17/2024

LICENSED PROFESSIONAL ENGINEER
No. 4775391-2202
SPENCER W. HOWELL
STATE OF UTAH

△ DATE REVISION

PROJECT NUMBER 17127

MECHANICAL SYMBOLS AND LEGEND

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GRILLES, REGISTERS, AND DIFFUSERS

ID	MANUFACTURER	MODEL	DESCRIPTION	
CD-1	EH PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE APPLICATION: ENGINEERED VAV SYSTEMS MATERIAL: STEEL FINISH: COORDINATE COLOR WITH ARCHITECT	MOUNTING-FRAME: SURFACE OR LAY-IN, (CW CEILING TYPE.) PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE
RG-2	EH PRICE	80FF	FACE STYLE: CRATE FILTERED RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE OR SPACE AVAILABLE APPLICATION: PRESSURIZED AIR RETURN MATERIAL: ALUMINUM FINISH: COLORS AND FINISH PER ARCHITECT	MOUNTING-FRAME: SURFACE OR LAY-IN, (CW CEILING TYPE.) DAMPER: OPPOSED BLADE MAX NC - 30 REMOVABLE FACE & CORE

VRF INDOOR UNIT SCHEDULE

ID	LOCATION	LG MODEL NUMBER	TYPE	VENTILATION AIR (CFM)	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	COOLING EAT (DB/WB)	HEATING EAT (DB/WB)	FAN AIRFLOW (CFM)	MAX FAN ESP SETTING (IN WG)	CONDENSATE DRAIN CONNECTION SIZE (IN)	NET WEIGHT (LBS)	ELECTRICAL			NOTES
													VOLTAGE / PHASE / HZ	MCA (A)	MOP (A)10	
FC-1D-14	OFFICE 176A	FXSQ09TBVJU	DUCTED HIGH STATIC	50	9,400	10,500	75/58	70/45	150	0.25	1	55	208-230 / 1 / 60	0.8	15	1

1. PROVIDE WITH INTEGRAL CONDENSATE PUMP

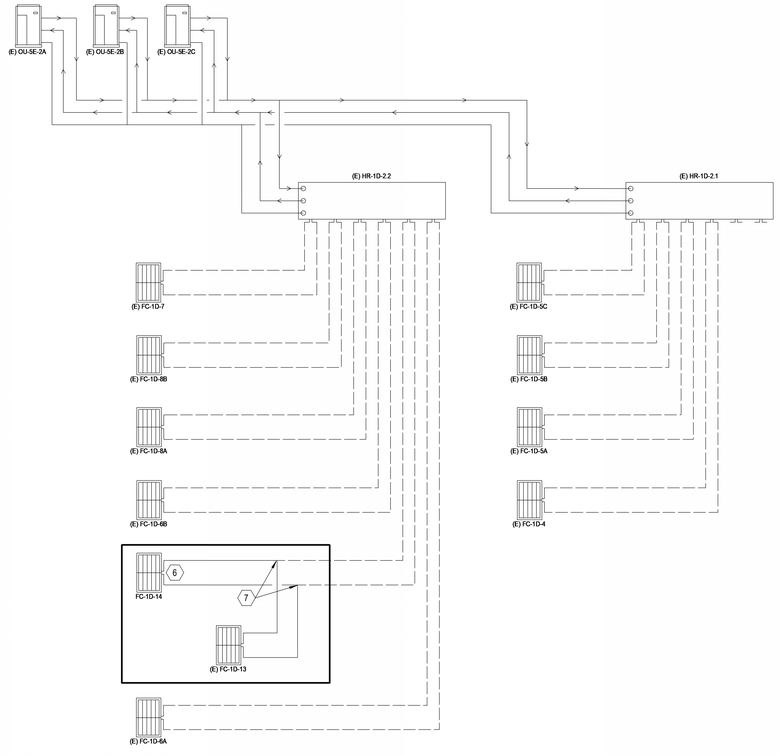
VAV BOX SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	AIR INLET SIZE (IN)	AIR COOLING MAXIMUM AIR (CFM)	AIR HEATING MAXIMUM AIR (CFM)	AIR UPPER MINIMUM AIR (CFM)	AIR LOWER MINIMUM AIR (CFM)	ENTERING AIR TEMP. DB (DEG. F)	LEAVING AIR TEMP. DB (DEG. F)	S.P. LOSS AT MAX CFM (2) (IN H20)	NC AT 1" H2O (1) S.P.	FLUID (2) HEAT LOAD (MB)	FLUID (2) TOTAL FLUID FLOW (GPM)	FLUID (2) ENT. FLUID TEMP (DEG. F)	FLUID (2) WORKING FLUID	COIL FLUID PRESSURE DROP (FT)	COIL MIN. COIL ROWS	COIL PIPE SIZE (IN)	COIL BALANCING VALVE SIZE (IN)	REMARKS
V-1D-14	PRICE SDV	4	--	--	50	50	65	65	0.20	<20	--	--	--	--	--	--	--	--	1, 2, 3

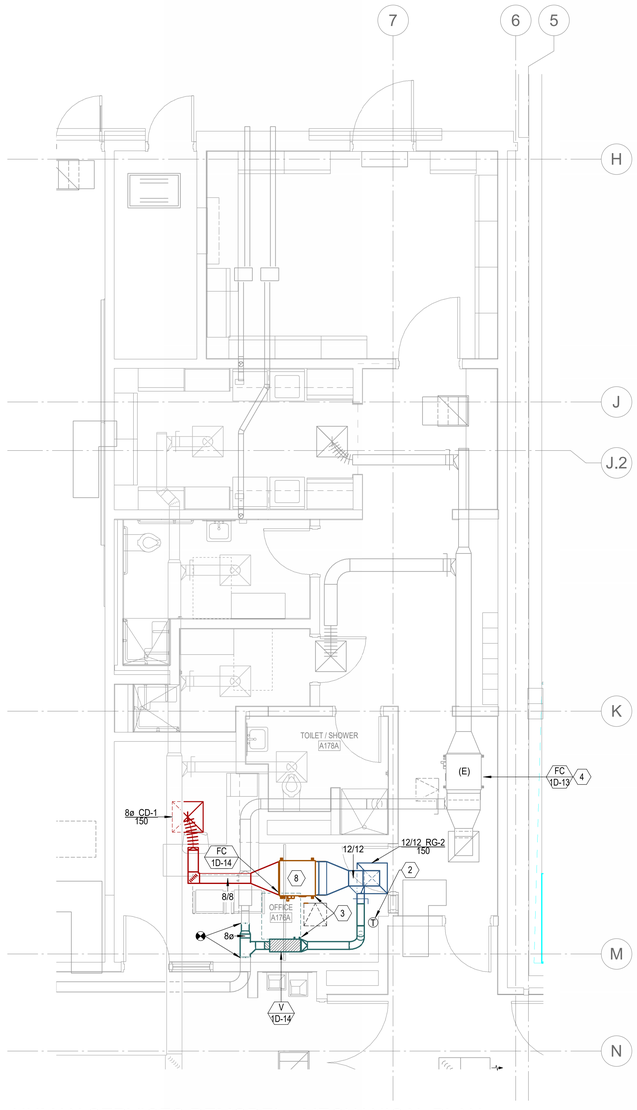
1. MAXIMUM DISCHARGE NC AT BOX DIFFENTIAL PRESSURE BASED ON ARI STANDARD 880-89
2. PRESSURE INDEPENDENT TYPE BOX.
3. STATIC PRESSURE IS NOT TO EXCEED 0.3".

KEYED NOTES

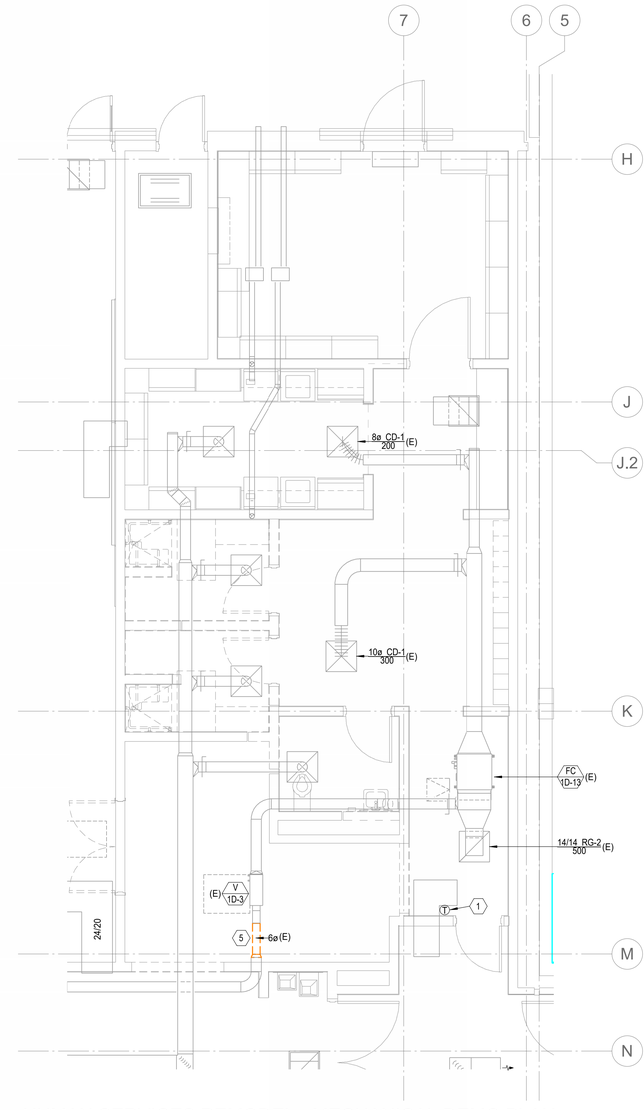
1. REMOVE THERMOSTAT AND STORE. IT IS TO BE RELOCATED INTO WHAT WILL BE THE NEW OFFICE. PATCH AND REPAIR THE WALL AS NECESSARY.
2. LOCATE THERMOSTAT THAT WAS REMOVED FROM THE HALLWAY TO APPROXIMATELY THIS LOCATION.
3. THE LOCATION OF THE VAV BOX AND FAN COIL DO NOT HAVE TO BE WHERE THEY ARE SHOWN. THE CONTRACTOR CAN FIND A SUITABLE LOCATION THAT WILL WORK WITH THE EXISTING CONDITIONS.
4. THIS FAN COIL WILL BECOME SLAVE TO THE NEW FAN COIL IN OFFICE A176A (FC-1D-14). THE AIRFLOW AND BALANCING SHOULD NOT CHANGE.
5. DEMOLISH A SMALL SECTION OF THE SIX-INCH OUTSIDE AIR DUCT. A NEW EIGHT-INCH DUCT WITH A CONNECTION TO A NEW VAV BOX WILL BE INSERTED. ONLY DEMOLISH WHAT IS REQUIRED FOR THE NEW CONNECTION. SEE ALSO 2/M410.
6. NEW FAN COIL. IT IS TO BE CONNECTED TO THE SAME BRANCH SELECTOR BOX PORTS AS THE EXISTING FAN COIL FC-1D-13.
7. CONNECT REFRIGERANT PIPING LINES TOGETHER WITH A DAIKIN KHRP26A22TA AND FOLLOW DAIKIN'S INSTALLATION INSTRUCTIONS.
8. THE VRV SYSTEM, EQUIPMENT AND PIPING, IS TO BE INSPECTED BY THE MANUFACTURER'S SERVICE REPRESENTATIVE. ANY ISSUES OR CONCERNS BROUGHT UP BY THE MANUFACTURER'S REPRESENTATIVE MUST BE ADDRESSED AND/OR FIXED/REPAIRED BEFORE SUBSTANTIAL COMPLETION CAN BE GRANTED.



3 VRV SCHEMATIC
NOT TO SCALE



2 HUMAN SERVICES REMODEL - MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



1 HUMAN SERVICES REMODEL - MECHANICAL DEMO PLAN
SCALE: 1/4" = 1'-0"

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MECHANICAL PLANS

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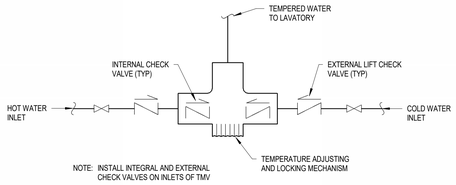


3 THERMOSTATIC MIXING VALVE DETAIL
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

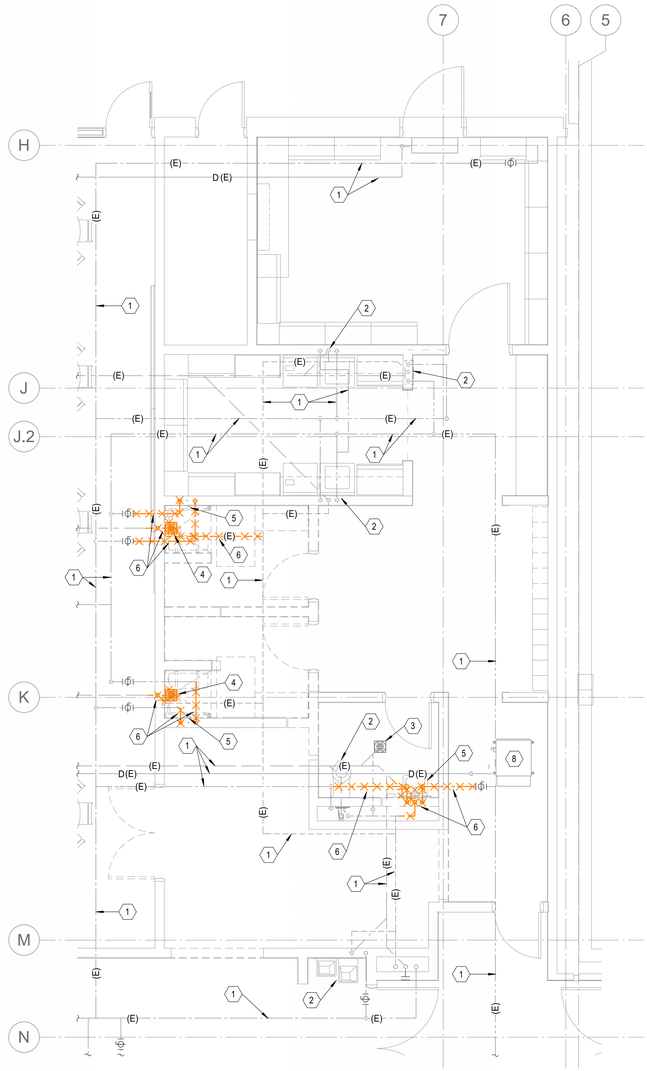
ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES	SPECIFICATION
WC-1	(ADA) WATER CLOSET (WALL HUNG)	1		3	2		WATER CLOSET (ADA): KOHLER MODEL K-4325-0 MODEL 3351.101 VITREOUS CHINA SIPHON JET, ELONGATED BOWL, FLOOR MOUNTED WITH 1-1/2" TOP SPUD; SLOAN REGAL 111 1.6 GALLON FLUSH VALVE. SMITH 0210 HORIZONTAL (LEFT OR RIGHT HAND AS REQUIRED) OR SMITH 0230 VERTICAL ADJUSTABLE CARRIER WITH FOOT SUPPORT. INSTALL ACTUATOR ON WIDE SIDE OF STALL. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
FD-1	FLOOR DRAIN			2	1 1/2		FLOOR DRAIN (RESTROOM): SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE HEAD WITH SECURED GRATE, DEEP SEAL P-TRAP AND TRAP GUARD
HB-1	HOSE BIB	3/4					HOSE BIBB: ACORN 8151 RECESSED 18 GA. 304 STAINLESS STEEL HOSE BOX WITH 16 GA. FLANGE; VANDAL RESISTANT COVER; HOSE VALVE WITH VACUUM BREAKER, 3/4" MALE HOSE THREAD AND LOOSE KEY HANDLE. 16 GA. DOOR WITH REMOVABLE HINGE AND CYLINDER LOCK.
L-1	ACCESSIBLE LAVATORY (WALL HUNG)	1/2	1/2	1 1/2	1 1/2	(1) (2)	LAVATORY (WALL HUNG): KOHLER K-2032 GREENWICH 20" X 18", "D" SHAPED BOWL, VITREOUS CHINA, WALL-MOUNT LAVATORY WITH DUAL FRONT OVERFLOW, 4" FAUCET CENTERS; K-7129 OPEN GRID STRAINER; ZURN Z6915-XL-F BATTERY POWERED FAUCET WITH 0.5 GPM VANDAL PROOF AERATOR. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED P-TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS. PROVIDE POWERS SERIES LFe480 (TMV-1) THERMOSTATIC MIXING VALVE WITH CHECK VALVES ON INLETS.
SH-1	ADA SHOWER	1/2	1/2				ADA SHOWER: BRADLEY S59-2005-TMV THERMOSTATIC PRESSURE BALANCE SHOWER VALVE WITH BUILT IN LEVER HANDLE, 24" SLIDE BAR, 60" LONG CHROME PLATED HOSE, HAND HELD SPRAY HEAD, IN-LINE VACUUM BREAKER AND QUICK DISCONNECT.

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

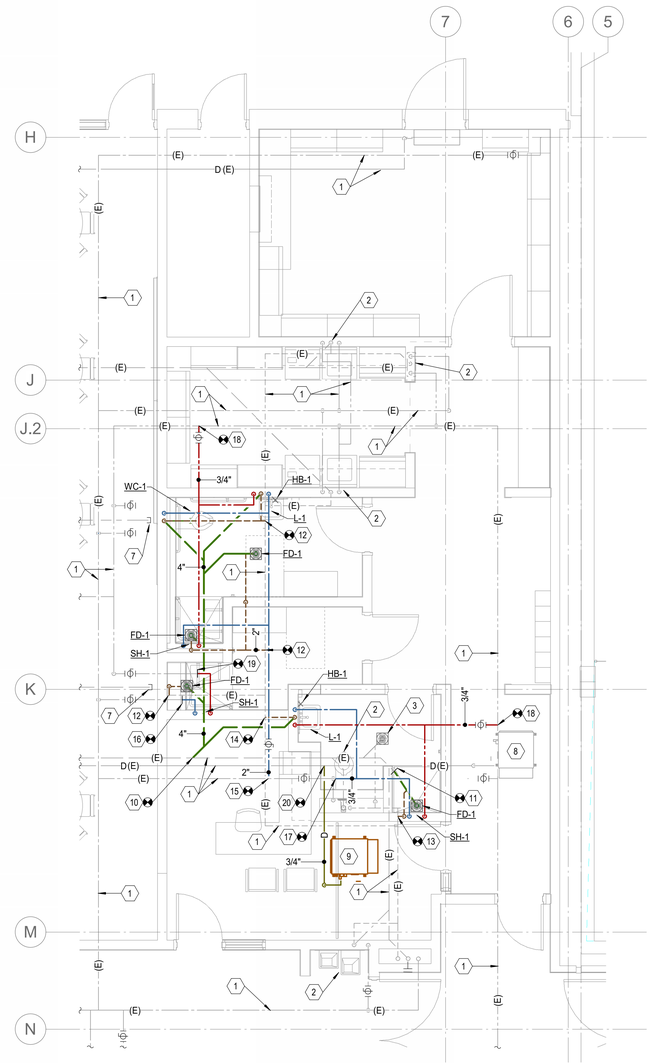
THERMOSTATIC MIXING VALVE SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	BODY CONSTRUCTION	INLET SIZE (IN)	OUTLET SIZE (IN)	FLUID FLOW RATE (GPM)	FLUID HEAD LOSS (FT)	ELECTRICAL VOLT/PH	NOTES
TMV-1	POWERS HYDROGUARD SERIES LFe480	LAVS		BRASS	1/2	1/2	1	3.0	N/A	(1)(2)

1. PROVIDE AND INSTALL CHECK VALVES IN CW AND HW INLETS.
2. INSTALL TIGHTLY BENEATH SINK.



1 HUMAN SERVICES REMODEL - PLUMBING DEMO PLAN
SCALE: 1/4" = 1'-0"



2 HUMAN SERVICES REMODEL - PLUMBING PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES

1. EXISTING PIPING TO REMAIN.
2. EXISTING FIXTURE AND REALTED PIPING TO REMAIN.
3. EXISTING FLOOR DRAIN AND RELATED PIPING TO REMAIN.
4. REMOVE EXISTING FLOOR DRAIN AND REALTED PIPING.
5. REMOVE EXISTING FIXTURE AND RELATED PIPING.
6. REMOVE EXISTING PIPING BACK TO ACTIVE MAIN AND CAP.
7. CAP EXISTING WASTE LINE BELOW FLOOR.
8. EXISTING MECHANICAL EQUIPMENT TO REMAIN. SEE MECHANICAL DRAWINGS.
9. MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.
10. CONNECT NEW 4" WASTE LINE TO EXISTING 4" WASTE LINE. FIELD VERIFY EXACT SIZE, LOCATION, ELEVATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
11. CONNECT NEW 2" WASTE LINE TO EXISTING 2" WASTE LINE. FIELD VERIFY EXACT SIZE, LOCATION, ELEVATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
12. CONNECT NEW 2" VENT LINE TO EXISTING 2" VENT LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
13. CONNECT NEW 2" VENT LINE TO EXISTING 3" VENT LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
14. CONNECT NEW 1 1/2" VENT LINE TO EXISTING 2" VENT LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
15. CONNECT NEW 2" DCW LINE TO EXISTING 2" DCW LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
16. CONNECT NEW 3/4" DCW LINE TO EXISTING 3/4" DCW LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
17. CONNECT NEW 3/4" DCW LINE TO EXISTING 1" DCW LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
18. CONNECT NEW 3/4" DHW LINE TO EXISTING 2" DHW LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
19. CONNECT NEW 3/4" DHW LINE TO EXISTING 3/4" DHW LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.
20. CONNECT NEW 3/4" DRAIN LINE TO EXISTING 3/4" DRAIN LINE. FIELD VERIFY EXACT SIZE, LOCATION AND SYSTEM PRIOR TO STARTING ANY NEW WORK.

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PLUMBING PLANS

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LIGHTING SYMBOLS

1. LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES. REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION.
2. ARROWS INDICATE AIMING DIRECTION.

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	LIGHT BOLLARD	AS SPECIFIED OR DETAILED	
	FLOOD LIGHT	AS SPECIFIED OR DETAILED	
	RECESSED WALL FIXTURE OR STEP LIGHT	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED LINEAR LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	LINEAR WALL WASHER	AS SPECIFIED OR DETAILED	
	RECESSED DOWN LIGHT	AS SPECIFIED OR DETAILED	
	RECESSED WALL-WASHER OR DIRECTIONAL DOWNLIGHT	AS SPECIFIED OR DETAILED	
	SURFACE OR PENDANT-MOUNTED LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	TRACK OR MONO-POINT LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	WALL SCONCE	AS SPECIFIED OR DETAILED	
	LINEAR PENDANT LIGHT FIXTURE	CEILING	
	EGRESS LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IS AN EXAMPLE OF AN EGRESS LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE HALF-SHADED DIAGONALLY
	EMERGENCY (NON-EGRESS) LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IS AN EXAMPLE OF AN EMERGENCY (NON-EGRESS) LIGHT FIXTURE. EMERGENCY FIXTURES ARE FULLY-SHADED.
	CEILING MOUNTED EXIT SIGN	CEILING	DARKENED PORTION OF SIGN INDICATES FACE(S); ARROW(S) INDICATE CHEVRON DIRECTION(S)
	WALL-MOUNTED EXIT SIGN	WALL ABOVE DOOR	
	WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTURE	WALL ABOVE DOOR	
IN	CEILING MOUNTED IN USE SIGN	CEILING	
IN	WALL-MOUNTED IN USE SIGN	WALL ABOVE DOOR	
TC	TIME CLOCK		
	EMERGENCY LIGHT FIXTURE	AS NOTED	
P	ELECTRIC PHOTOCELL	N/A	MOUNT ON ROOF FACING NORTH SKY
XXXX	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE)		

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
T	BEAM DETECTOR - TRANSMITTER	4" BELOW CEILING TO TOP OF DETECTOR	
R	BEAM DETECTOR - RECEIVER	4" BELOW CEILING TO TOP OF DETECTOR	
EOL	END OF LINE RESISTOR	PER MANUF. REC.	
T	TAMPER SWITCH	AT VALVE	
W	WATER FLOW INDICATOR	ON FIRE RISER	
FSD	FIRE/SMOKE DAMPER		
X	HEAT DETECTOR	CEILING	SUBSCRIPT INDICATES SPECIFIC REQUIREMENTS/OPTIONS: 'SB' DEVICE WITH SOUNDER BASE 'R' DEVICE WITH ADDRESSABLE RELAY 'RES' DEVICE HAS 120V. SMOKE ALARM W/BATTERY BACKUP
CO X	CARBON MONOXIDE DETECTOR		
X	SMOKE DETECTOR		
X	HEAT DETECTOR	WALL MOUNTED: MAX 12" FROM BOTTOM OF CEILING	
CO X	CARBON MONOXIDE DETECTOR		
X	SMOKE DETECTOR		
D	DUCT SMOKE DETECTOR	SIDE OF DUCT	
F	FIRE ALARM MANUAL STATION		
Z	CONTROL MODULE	AT DEVICE(S) TO BE CONTROLLED	
I	MONITOR MODULE	AT DEVICE(S) TO MONITOR	
R	FAN SHUTDOWN RELAY	AT CONTROL PANEL	
D	MAGNETIC DOOR HOLDER	COORDINATE WITH DOOR INSTALLER	COORDINATE WITH DOOR INSTALLER; SUBSCRIPT 'F' INDICATES TO MOUNT AT FLOOR LEVEL
WF	WATER FLOOD CONTROL	FLOOR	
H	AUDIO HORN	INDOOR - 96" FROM FINISH FLOOR TO TOP OF DEVICE. OUTDOOR - 120" FROM FINISH FLOOR TO TOP OF DEVICE.	SUBSCRIPT 'WP' INDICATES THAT A WEATHER PROOF BACK BOX IS REQ. NUMERIC SUBSCRIPT INDICATES CANDELA RATING OF STROBE (I.E. - 15, 75, 110)
	FIRE ALARM VISUAL STROBE		
	CONCEAL FIRE ALARM VISUAL STROBE		
	FIRE ALARM AUDIO/VISUAL HORN/STROBE		
	CONCEAL FIRE ALARM AUDIO/VISUAL HORN/STROBE		
	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL HORN/STROBE		
S	FIRE ALARM AUDIO SPEAKER		
S	CEILING MOUNTED FIRE ALARM AUDIO SPEAKER		
	FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE		
	CONCEAL FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE		
	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE		
F	FIRE FIGHTERS TELEPHONE JACK	+48"	
	FIRE PROTECTION SPRINKLER RISER BELL	+90"	FURNISHED BY FIRE PROTECTION CONTRACTOR AND INSTALLED AND CONNECTED BY DIV. 26
FACP	FIRE ALARM CONTROL PANEL		
ASD	FIRE ALARM CONTROL PANEL		

INTRUSION DETECTION SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
MD	MOTION DETECTOR	CEILING	SUBSCRIPT DENOTES DEGREES OF MONITORED AREA
D	DURESS PUSH-BUTTON	BELOW DESK	
OHS	OVERHEAD MAGNETIC CONTACT DOOR SWITCH	DOOR	
D	MAGNETIC CONTACT DOOR SWITCH	DOOR	
G	GLASS BREAK DETECTOR	CEILING	
S	SIREN	+90"	
REX	REQUEST FOR EXIT	DOOR	

WIRING DEVICE SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	SPLIT-WIRED DUPLEX RECEPTACLE	+18"	
	SIMPLEX RECEPTACLE	+18"	
	DUPLEX RECEPTACLE	+18"	
	FOURPLEX RECEPTACLE	+18"	
	125/250V RECEPTACLE	+18"	RANGE -- NEMA 14-50R DRYER -- NEMA 14-30R
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE	+18"	
	GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"	
	EMERGENCY DUPLEX RECEPTACLE	+18"	
	EMERGENCY FOURPLEX RECEPTACLE	+18"	
	DUPLEX RECEPTACLE W/(2) 3.1A, 5VDC USB PORTS	+18"	
J	MULTI-OUTLET ASSEMBLY	4" ABOVE BACKSPLASH	
	POWER / TELEPHONE POLE	FLOOR/CEILING	
(4-PLEX)	CORD DROP	REFER TO FLOOR PLANS	REFER TO DETAIL. REFER TO PLANS.
(4-PLEX)	CORD REEL	REFER TO FLOOR PLANS	REFER TO DETAIL. REFER TO PLANS.
(5-20R)	SPECIAL PURPOSE OUTLET	+18"	SUBSCRIPT IN PARENTHESIS INDICATES NEMA CONFIGURATION IF SHOWN. REFER TO DRAWINGS AND/OR EQUIPMENT SCHEDULES. CONFIRM EXACT CONFIGURATION WITH OWNER PRIOR TO INSTALLATION.

LIGHTING CONTROLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
$	SINGLE-POLE TOGGLE SWITCH	+48"	
$a	SINGLE-POLE TOGGLE SWITCH	+48"	SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
$2	DOUBLE-POLE TOGGLE SWITCH	+48"	
$3	THREE-WAY TOGGLE SWITCH	+48"	
$4	FOUR-WAY TOGGLE SWITCH	+48"	
$K	KEY-OPERATED SINGLE-POLE TOGGLE SWITCH	+48"	
$P	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	+48"	
$DIM	DIMMER SWITCH	+48"	RATE DIMMER SWITCH FOR MAXIMUM POSSIBLE WATTAGE
$TIM	TIMER SWITCH	+48"	
$OS	OCCUPANCY SENSOR	+48"	REFER TO OCCUPANCY SENSOR SCHEDULE FOR MORE INFORMATION "#" SPECIFIES TYPE
$$	(2) SINGLE-POLE TOGGLE SWITCH	+48"	DUAL LEVEL SWITCH OUTBOARD LAMPS SEPARATELY FROM INBOARD LAMPS.
$# LV	LOW VOLTAGE SWITCH	+48"	REFER TO LOW VOLTAGE SWITCH SCHEDULE FOR MORE INFORMATION "#" SPECIFIES TYPE
$3PM	3-POSITION MOMENTARY CONTACT SWITCH	+48"	REFER TO DETAIL UP-ON; CENTER-NEUTRAL; DOWN-OFF
$3PN	3-POSITION MAINTAINED CONTACT SWITCH	+48"	UP-ON; CENTER-OFF; DOWN-ON
a #	OCCUPANCY SENSOR	CEILING	"a" LOWER CASE SPECIFIES ZONE "#" SPECIFIES TYPE
a #	DIGITAL DAYLIGHT SENSOR	CEILING	"a" LOWER CASE LETTER SPECIFIES ZONE "#" SPECIFIES THE FOOTCANDLE SETTING THE SENSOR SHALL BE SET TO
TP	WALL MOUNT GRAPHIC TOUCH PAD CONTROLLER	+48"	
EC	EMERENCY CONTROLLER	ACCESSIBLE ABOVE CEILING	
LC	LOAD CONTROLLER	ACCESSIBLE ABOVE CEILING	
PP	POWER PACK	ACCESSIBLE ABOVE CEILING	
RC	ROOM CONTROLLER	ACCESSIBLE ABOVE CEILING	

EQUIPMENT AND CONTROL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
T	MANUAL STARTER WITH THERMAL OVERLOAD(S)	AT EQUIPMENT	
	ELECTRIC MOTOR		
J	NON-FUSED DISCONNECT SWITCH	+60"	
FJ	FUSED DISCONNECT SWITCH	+60"	
J	CIRCUIT BREAKER AND ENCLOSURE	+60"	
	MAGNETIC STARTER	+60"	
J	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	+60"	
J	COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT	+60"	
J	COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)	+60"	
VFD	COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED
	LOAD CENTER (SURFACE-MOUNTED)	TOP AT +72"	14"W X 3"D
	LOAD CENTER (FLUSH-MOUNTED)	TOP AT +72"	14"W X 3"D
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6"D
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6"D
	POWER DISTRIBUTION PANELBOARD	WALL OR RACK MOUNTED	THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. "L2A', 'MDP')
	SWITCHBOARD	PAD MOUNTED	
T-#	WET TYPE TRANSFORMER	PAD MOUNT	
T-#	DRY TYPE TRANSFORMER	PAD MOUNT	
T-#	DRY TYPE TRANSFORMER	WALL MOUNT	
	METER BASE	TOP AT +72"	
PB	PULL BOX		
	UTILITY POLE		
	OPEN - STOP - CLOSE SWITCH	+60"	FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.
T	HVAC THERMOSTAT	+60"	PROVIDED BY DIVISION 23
	HAND - OFF - AUTO SWITCH	+60"	
GF	GROUND FAULT PROTECTION		
E	ELECTRIC VEHICLE CAR CHARGING STATION	FLOOR	
S	PAD MOUNTED UTILITY SWITCHGEAR		
SE	PAD MOUNTED UTILITY SECTIONALIZER		

GENERAL SYMBOLS

SYMBOL	DESCRIPTION	REMARKS
XX	KEYED NOTE	
1 E-1	DETAIL REFERENCE	TOP NUMBER INDICATES DETAIL NUMBER; BOTTOM LETTER-NUMBER INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN; WHERE NOT SPECIFICALLY REFERENCED, DETAIL IS GENERAL IN NATURE AND SHALL APPLY WHERE APPLICABLE.
2 E-2	ELEVATION REFERENCE	TOP NUMBER INDICATES ELEVATION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN.
3 E-2	SECTION REFERENCE	TOP NUMBER INDICATES ELEVATION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN.
100	ARCHITECTURAL ROOM NUMBER	
AHU 1	EQUIPMENT NAME / NUMBER	TOP NUMBER ABBREVIATES EQUIPMENT NAME OR TYPE;. BOTTOM NUMBER INDICATES EQUIPMENT NUMBER. REFER TO EQUIPMENT SCHEDULE.
1	REVISION NUMBER	USED TO DENOTE CHANGES EITHER ISSUED BY ADDENDUM OR DURING CONSTRUCTION AND TO DENOTE RECORD DRAWING CHANGES.
	REVISION CLOUD	USED TO DENOTE AREAS, DEVICES, EQUIPMENT DETAILS, ETC. AFFECTED BY THE REVISION.
	BREAKLINE	USED TO BREAK DRAWINGS.
LCD-###	LIGHTING CONTROL WIRING DIAGRAM CALLOUT	

BRANCH CIRCUITING SYMBOLS

SYMBOL	DESCRIPTION	REMARKS
	BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.
	BRANCH CIRCUITING (U.N.O.) CONTINUATION	
	CONDUIT STUB-IN	CAP AND MARK
	INCOMING SERVICE	
	UNDERGROUND FEEDER	
J	JUNCTION BOX	MOUNT AS NOTED. SUBSCRIPT 'F' INDICATES TO PROVIDE A FLOOR BOX WITH BLANK COVERPLATE.
	BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER	
	BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER	
	2 CIRCUIT, BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.
	3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.

ELECTRONIC SYSTEM GENERAL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
PANEL NAME	ELECTRONIC SYSTEM PANELBOARD (SURFACE MOUNT)	TOP AT 72"	ELECTRONIC SYSTEMS MAY INCLUDE BUT ARE NOT SPECIFICALLY LIMITED TO, TELEPHONE, DATA, TELEVISION, LIGHTING CONTROL, CLOCKS, FIRE ALARM, ACCESS CONTROL, SECURITY, CCTV, SOUND SYSTEM, NURSE CALL, OR INTERCOM.
PANEL NAME	ELECTRONIC SYSTEM PANELBOARD (FLUSH MOUNT)	TOP AT 72"	
	ELECTRONIC SYSTEM TERMINAL BOARD	TOP AT 72"	
	TWO POST DATA RACK		
	FOUR POST DATA RACK		
	FLOOR MOUNTED DATA CABINET		
	LARGE DATA CABINET		
	WALL MOUNTED DATA CABINET		

ACCESS CONTROL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
REX	REQUEST-TO-EXIT MOTION DETECTOR	CEILING	
S	ELECTROMAGNETIC DOOR STRIKE	DOOR	
SS	SEISMIC SENSOR	DOOR	
D	MAGNETIC DOOR CONTACT SWITCH	DOOR	
M	MAGNETIC LOCK	DOOR	
OHS	OVERHEAD SECURITY	DOOR	
OHD	OVERHEAD DOOR CONTACT	DOOR	
EH	ELECTRIFIED HINGE	DOOR	
EL	ELECTRIFIED LEVER	DOOR	
EP	ELECTRIFIED PANIC HARDWARE	DOOR	
G	GLASS BREAK HARDWARE	CEILING/WALL	
PS	POWER SUPPLY	CEILING/WALL	
L	INTEGRATED LOCK	+46"	
PP	PUSH PLATE FOR AUTOMATIC DOOR OPERATOR	+46"	
ADO	AUTOMATIC DOOR OPERATOR	DOOR	
KP	KEYPAD	+48"	
CK	CARD READER / KEYPAD	+48"	
MK	MAGNETIC STRIP CARD READER / KEYPAD	+48"	
CR	CARD READER	+48"	
MR	MAGNETIC STRIP CARD READER	+48"	
AUTO	AUTOMATIC SLIDING DOOR	DOOR	

TELEPHONE / DATA SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	TELEPHONE OUTLET	+18"	
	DATA OUTLET	+18"	
	COMBINATION TELEPHONE/DATA OUTLET	+18"	
	TELEPHONE TERMINAL BOARD	TOP AT 72"	
	WIRELESS ACCESS POINT	CEILING	
W	WIRELESS ACCESS POINT	SEE PLANS	
	EMERGENCY PHONE	SEE PLANS	

ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES

1. MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
2. WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.
3. WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.
4. NOT ALL ELECTRICAL SYMBOLS MAY BE USED.

ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

A	ABOVE COUNTER	LSI	LONG-TIME, SHORT-TIME INSTANTANEOUS
A	AMP OR AMPS	LSIG	LONG-TIME, SHORT-TIME INSTANTANEOUS GROUND FAULT
ACC	ACCESS CONTROL	LTG	LIGHTING
ADJ	ADJACENT	MBJ	MAIN BONDING JUMPER
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
AHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MV	MEDIUM VOLTAGE
AUX	AUXILIARY	MW	MICROWAVE
AWG	AMERICAN WIRE GAUGE	NC	NORMALLY CLOSED
BAS	BUILDING AUTOMATION SYSTEM	NEC	NATIONAL ELECTRIC CODE
BLDG	BUILDING	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CB	CIRCUIT BREAKER	NO	NORMALLY OPEN
CKT	CIRCUIT	OC	ON CENTER(S)
CLG	CEILING	OCP	OVER CURRENT PROTECTION
CO	CONVENIENCE OUTLETS	OCPD	OVER CURRENT PROTECTION DEVICE
COMM	COMMUNICATIONS	PA	PUBLIC ADDRESS
CU	COPPER	PH	PHASE
DAS	DISTRIBUTED ANTENNA SYSTEM	PV	PHOTOVOLTAIC
(E)	EXISTING	PWR	POWER
EA	EACH	QTY	QUANTITY
EG	EQUIPMENT GROUND	R	REMOVE
EGC	EQUIPMENT GROUNDING CONDUCTOR	REF	REFRIGERATOR
ELEC	ELECTRICAL	REQ	REQUIREMENTS
EM	EMERGENCY	RGC	RIGID GALVANIZED METALLIC CONDUIT
EMT	ELECTRIC METALLIC TUBING	RMC	RIGID METAL CONDUIT
ENT	ELECTRIC NONMETALLIC TUBING	RMP	ROCKY MOUNTAIN POWER
EQUIP	EQUIPMENT	RNC	RIGID NONMETALLIC CONDUIT
EWC	ELECTRIC WATER COOLER	RR	REMOVE AND RELOCATE
EXP	EXPLOSION PROOF	S	SURFACE MOUNTED
FA	FIRE ALARM	SBJ	SYSTEM BONDING JUMPER
FACP	FIRE ALARM CONTROL PANEL	SCP	SECURITY CONTROL PANEL
FLA	FULL LOAD AMPS	SFL	SUB-FEED LUGS
FMC	FLEXIBLE METAL CONDUIT	SPD	SURGE PROTECTIVE DEVICE
FO	FIBER OPTIC	SS	SURGE SUPPRESSION
FOB	FREIGHT ON BOARD	SSBJ	SUPPLY SIDE BONDING JUMPER
FTL	FEED-THROUGH LUGS	TGB	TELECOMMUNICATION GROUNDING BUS BAR
GEC	GROUNDING ELECTRODE CONDUCTOR	TMGB	TELECOMMUNICATION MAIN GROUNDING BUS BAR
GND	GROUND CONDUCTOR	TR	TAMPER RESISTANT
H	HOSPITAL GRADE	TTB	TELEPHONE TERMINAL BOARD
HOA	HAND-OFF-AUTO	TYP	TYPICAL
HP	HORSE POWER	UF	UNDER FLOOR
HZ	HORIZONTALLY MOUNTED	UG	UNDERGROUND
IBT	INTERSYSTEM BONDING TERMINATION BAR	UNO	UNLESS NOTED OTHERWISE
ID	INTRUSION DETECTION	USB	UNIVERSAL SERIAL BUS
IG	ISOLATED GROUND	VSS	VIDEO SURVEILLANCE SYSTEM
IMC	INTERMEDIATE METAL CONDUIT	W	WITH
INS	INSULATED	W/O	WITHOUT
ISO	ISOLATED	WP	WEATHER PROOF
KCML	KILO CIRCULAR MIL	WR	WEATHER RESISTANT
KVA	KILO VOLT AMPERES	XFMR	TRANSFORMER
KW	KILOWATTS		
LFNC	LIQUID-TIGHT NONMETAL CONDUIT		
LS	LONG-TIME, SHORT-TIME		

CLOSED CIRCUIT TELEVISION SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	BULLET STYLE CLOSED CIRCUIT TELEVISION CAMERA	SEE PLANS	SUBSCRIPT DENOTES DEGREES OF MONITORED AREA
	BULLET STYLE CLOSED CIRCUIT TELEVISION CAMERA	WALL	
	DOME STYLE CLOSED CIRCUIT TELEVISION CAMERA	SEE PLANS	
	DOME STYLE CLOSED CIRCUIT TELEVISION CAMERA	WALL	

SHEET INDEX

GENERAL PROJECT NOTES:

1. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES. THERE WILL BE NO EXCEPTIONS.
2. THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING , AT THEIR DISCRETION WITH THE ELECTRICAL ENGINEER AND REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
3. THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS, THESE ITEMS DO NOT REPRESENT ALL ITEMS AND THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF THE SPECIFICATIONS:
   A. INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
   B. A DEDICATED NEUTRAL CONDUCTOR WILL BE PROVIDED FOR ALL LIGHTING AND POWER CIRCUITS.
   C. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
   D. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL AND NATIONAL CODE.
4. THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED A SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT THE APPROVAL FROM THE ELECTRICAL ENGINEER.
5. THE CONTRACTOR SHALL INSTALL THE WIRE SIZES AS CALLED OUT ON THE ONE-LINE DIAGRAM, EQUIPMENT SCHEDULES, VOLTAGE DROP TABLES, AND ELECTRICAL SPECIFICATIONS. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS SIZED LARGE ENOUGH TO ALLOW FOR VOLTAGE DROP.
6. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERCURRENT DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB, PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT. CONTACT THE ELECTRICAL ENGINEER WITH ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO EXTRA PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.
8. THE CONTRACTOR SHALL MAKE SURE THAT ALL BRANCH CIRCUITS THAT ARE AFFECTED BY THIS PROJECT ARE NOT OVERLOADED. PROVIDE ADDITIONAL BRANCH CIRCUITS FROM ELECTRICAL PANELS AS NECESSARY TO COMPLY WITH THE BRANCH CIRCUIT LOADING REQUIREMENTS. PROVIDE ALL MATERIAL AND LABOR AS NECESSARY FOR A COMPETE AND OPERATING SYSTEM.
9. PROVIDE UPDATED, TYPED PANELBOARD SCHEDULE(S) TO REFLECT ALL THE CHANGES MADE INCLUDING EXISTING LOADS. THE EXISTING LOADS SHALL BE NAMED THE SAME AS LISTED ON THE EXISTING PANELBOARD SCHEDULE.

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- 03/09/20

LICENSED PROFESSIONAL ENGINEER
DAVID P. WHITTON
No.264397
STATE OF UTAH
2024/05/17

DATE	REVISION

PROJECT NUMBER 17127

GENERAL NOTES AND SYMBOLS LISTS

EG001

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GENERAL NOTES:

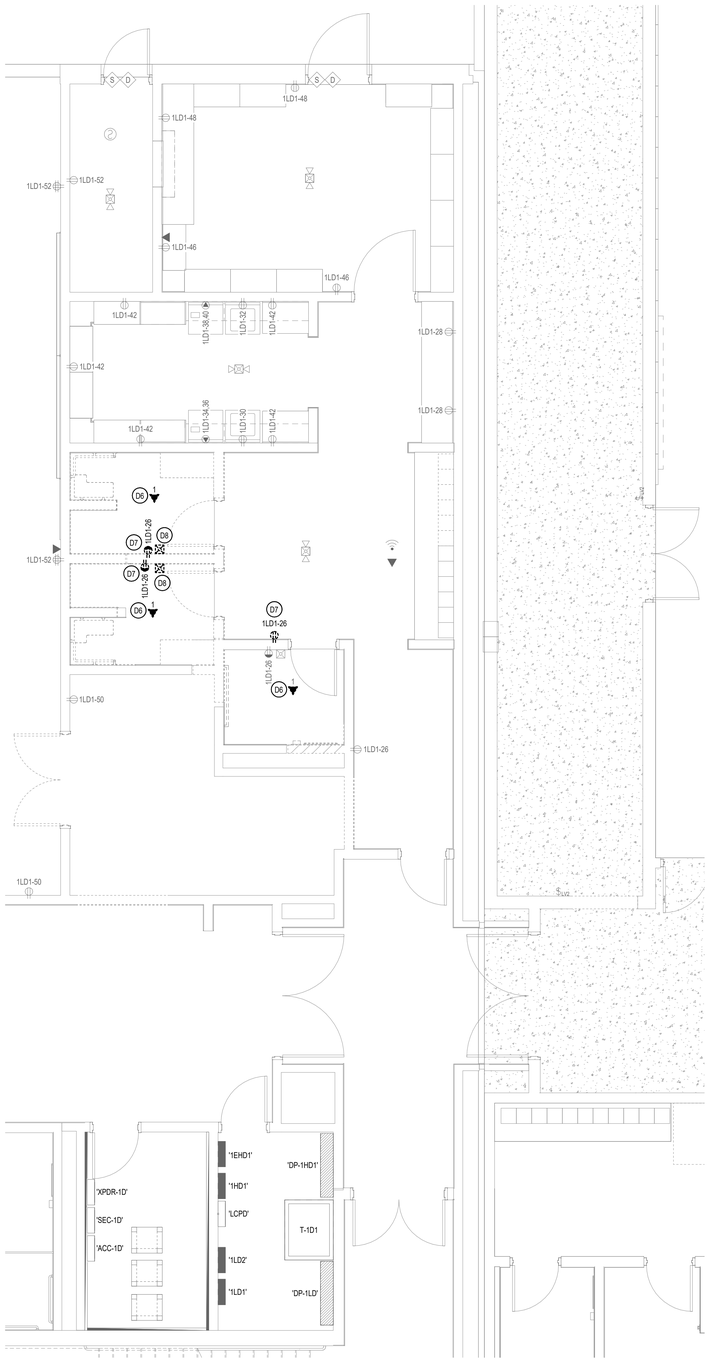
1. REMOVE ANY UNUSED BRANCH CIRCUITS BACK TO THE SOURCE COMPLETELY. TURN OFF BREAKER AND LABEL 'SPARE'.
2. ALL EXISTING CONDUITS, BOXES, ECT THAT ARE LOCATED IN THE AFFECTED CONSTRUCTION AREA SHALL BE RELOCATED OR REROUTED AS NECESSARY.
3. BRANCH CIRCUIT WERE TAKEN FROM EXISTING RECORD DRAWINGS AND PANEL SCHEDULES AND MAY NOT BE ACCURATE. CONTRACTOR TO TRACE OUT ALL CIRCUITS PRIOR TO ANY WORK BEING DONE.
4. THIS AND ANY OTHER DEMOLITION DRAWING IS NOT INTENDED TO BE ALL-INCLUSIVE, NOR TO DEFINE THE SCOPE OF ALL DEMOLITION WORK REQUIRED FOR THIS PROJECT. DEMOLITION DRAWINGS ARE SHOWN ONLY TO AID THE CONTRACTOR IN PREPARING THE BID AND REFORMING THE WORK. CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND VISIT THE SITE DURING BIDDING TO DETERMINE THE TOTAL EXTENT AND SCOPE OF THE DEMOLITION PORTION OF THIS WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED TO CARRY OUT THE WORK AS SHOWN IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS AND CONFIRM ALL DEVICES ON THE CIRCUIT PRIOR TO ANY DEMOLITION.

GENERAL DEMOLITION NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
   - A. DISCONNECT AND REMOVE ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
   - B. RELOCATE, REWIRE, AND/OR RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
   - C. LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
   - D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE, TAPE CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO, OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
   - E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
   - F. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.
   - G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
   - H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
   - I. FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
2. ANY EXISTING CONDUITS, BOXES, ETC THAT ARE LOCATED IN THE AFFECTED CONSTRUCTION AREA SHALL BE RELOCATED OR REROUYTED AS NECESSARY.
3. BRANCH CIRCUIT, IF SHOWN WERE TAKEN FROM EXISTING RECORD DRAWINGS AND PANEL SCHEDULES. CONTRACTOR TO TRACE OUT ALL CIRCUITS PRIOR TO ANY DEMOLITION.
4. THIS AND ANY OTHER DEMOLITION DRAWINGS ARE NOT INTENDED TO BE ALL-INCLUSIEVE, NOR TO DEFINE THE SCOPE OF ALL DEMOLITION WORK REQUIRED FOR THIS PROJECT. DEMOLITION DRAWINGS ARE SHOWN ONLY TO AID THE CONTRACTOR IN PREPARING THE BID AND PERFORMING THE WORK. CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND VISIT THE SITE DURING BIDDING TO DETERMINE THE TOTAL EXTENT AND SCOPE OF THE DEMOLITION PORTION OF THIS WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED TO CARRY OUT THE WORK AS SHOWN IN THE CONTRACT DOCUMETNS.

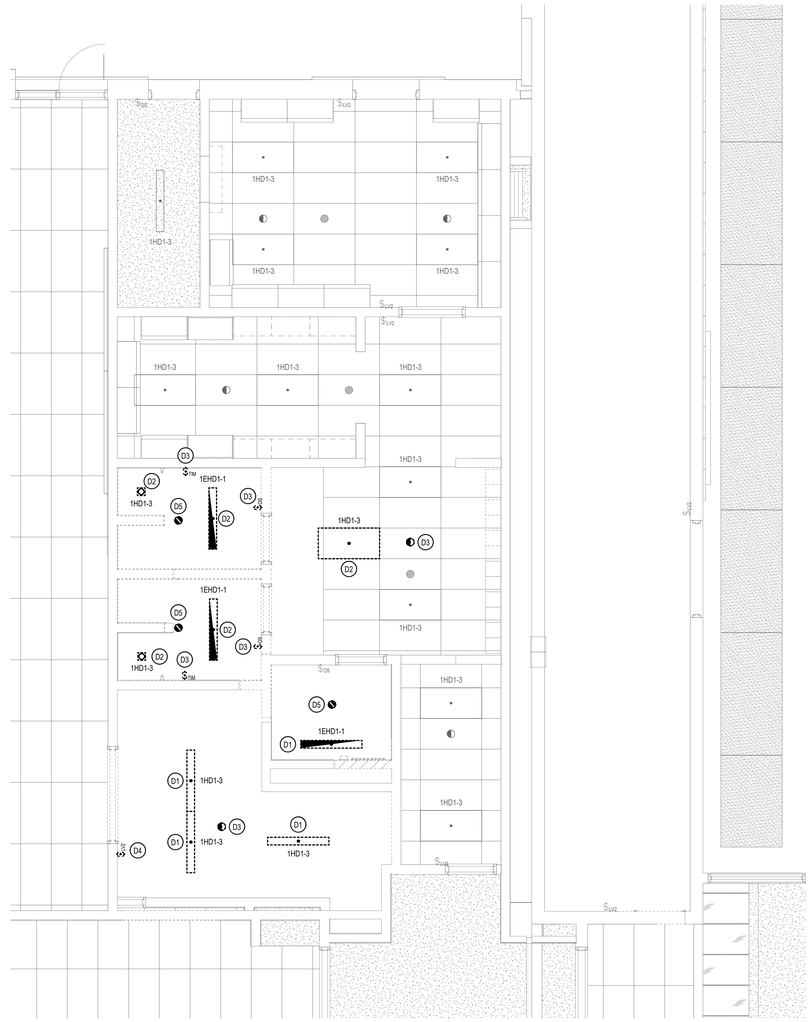
KEYED NOTES (#)

- D1 DISCONNECT, REMOVE AND RETURN EXISTING LIGHT FIXTURE TO THE OWNER. EXISTING BRANCH CIRCUIT TO REMAIN IN PLACE FOR REUSE. REWIRE EXISTING LIGHT FIXTURES ON THE CIRCUIT TO REMAIN OPERATIONAL DURING ALL PHASES OF THE CONSTRUCTION.
- D2 DISCONNECT, REMOVE AND STORE EXISTING LIGHT FIXTURE FOR REUSE. EXISTING BRANCH CIRCUIT TO REMAIN IN PLACE FOR REUSE. REWIRE EXISTING LIGHT FIXTURES ON THE CIRCUIT TO REMAIN OPERATIONAL DURING ALL PHASES OF THE CONSTRUCTION.
- D3 DISCONNECT, REMOVE AND STORE EXISTING LIGHTING CONTROL FOR REUSE. EXISTING BRANCH CIRCUIT TO REMAIN IN PLACE FOR REUSE. REWIRE EXISTING LIGHT FIXTURES ON THE CIRCUIT TO REMAIN OPERATIONAL DURING ALL PHASES OF THE CONSTRUCTION
- D4 DISCONNECT, REMOVE AND RETURN EXISTING LIGHTING CONTROL TO OWNER. REMOVE EXISTING LOW VOLTAGE CABLING. COORDINATE ALL WORK WITH THE LIGHTING CONTROL SYSTEM SUPPLIER.
- D5 DISCONNECT, REMOVE AND STORE EXISTING INTERCOM SPEAKER FOR REUSE. REWIRE EXISTING INTERCOM SPEAKER ON THE ZONE TO REMAIN OPERATIONAL DURING ALL PHASES OF THE CONSTRUCTION.
- D6 DISCONNECT, REMOVE AND STORE EXISTING HALO DETECTOR CABLING AND COVER PLATE FOR REUSE. REMOVE EXISTING CABLING TO AN ACCESSIBLE LOCATION FOR REUSE.
- D7 DISCONNECT, REMOVE AND STORE EXISTING RECEPTACLE AND COVER PLATE. REMOVE EXISTING BRANCH CIRCUIT TO AN ACCESSIBLE LOCATION FOR REUSE. REWIRE EXISTING DEVICES ON THE CIRCUIT SO THEY REMAIN OPERATIONAL DURING ALL PHASES OF THE CONSTRUCTION.
- D8 DISCONNECT, REMOVE AND STORE EXISTING FIRE ALARM SYSTEM STROBE. REMOVE EXISTING CABLING TO AN ACCESSIBLE LOCATION FOR REUSE. REWIRE EXISTING NOTIFICATION APPLIANCES THAT ARE ON THE CIRCUIT SO THEY REMAIN OPERATIONAL DURING ALL PHASES OF THE CONSTRUCTION.



1 LEVEL 1 - HUMAN SERVICES POWER AND SYSTEMS DEMOLITION PLAN

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



2 LEVEL 1 - HUMAN SERVICES LIGHTING AND INTERCOM DEMOLITION PLAN

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

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DAVID P. WHITTON — No.264397 — LICENSED PROFESSIONAL ENGINEER — STATE OF UTAH

2024/05/17

DATE	REVISION

PROJECT NUMBER 17127

LEVEL 1 - ELECTRICAL DEMOLITION PLANS - AREA D

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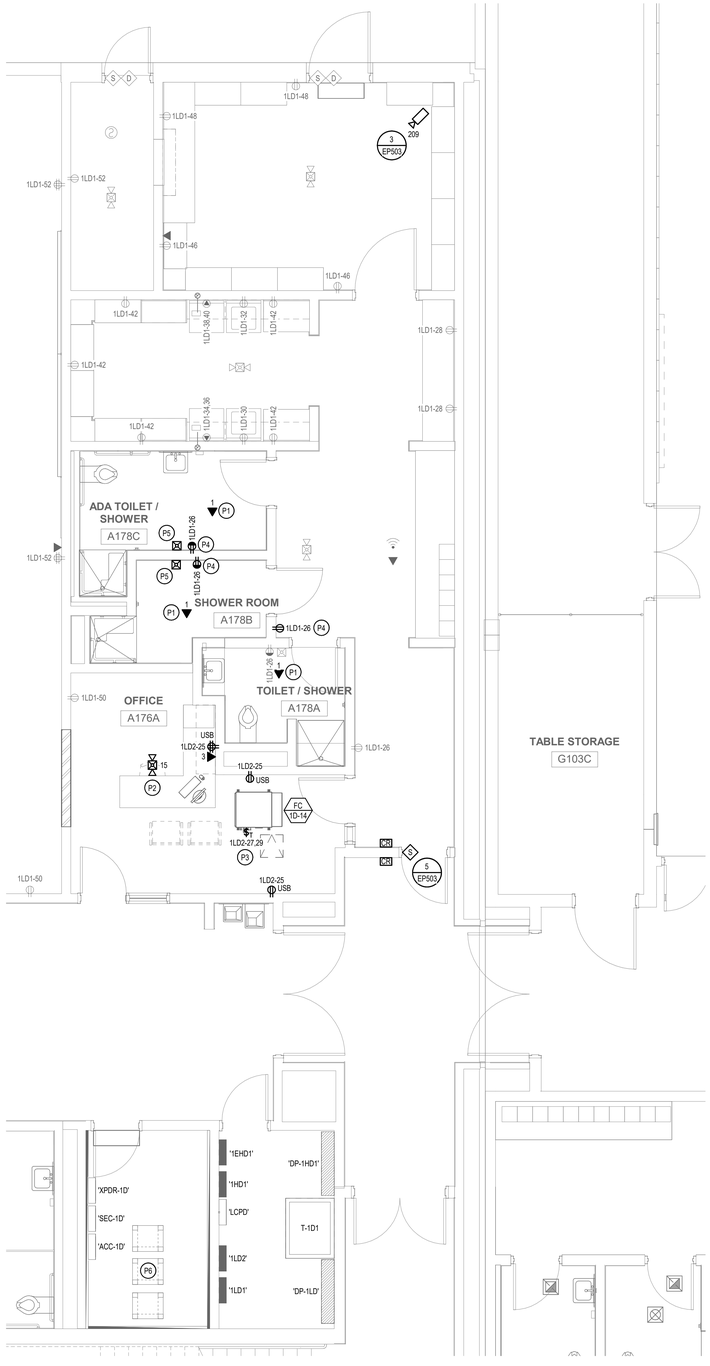

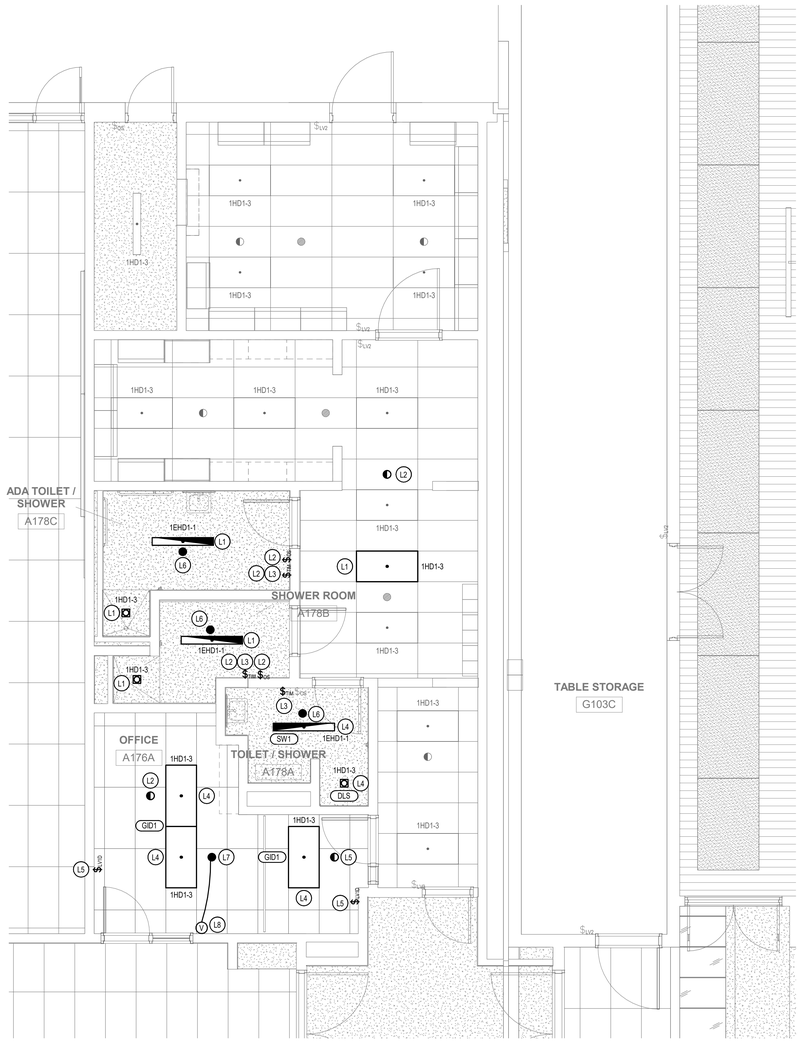

WIFI ACCESS POINT LOCATION (WHITE JACKET - DATA) ▼2A — QTY. OF CAT. 6A SHIELDED CABLES.

DATA LOCATION (BLUE JACKET - DATA) ▼1 — QTY. OF CAT. 6A CABLES.

DATA/COMMUNICATIONS SYMBOLS LEGEND:

A1-40 — DESIGNATION OF CIRCUIT. WIRE COMPLETE.

A1-40/IG — ISOLATED GROUND CIRCUIT.

A1-40 — DESIGNATION OF CIRCUIT. WIRE COMPLETE.

L6-30 — PLUG TYPE. VERIFY EXACT PLUG TYPE WITH OWNER / EQUIPMENT SUPPLIER.

▼▽▽ — PROVIDE 4" SQUARE, 2-1/8" DEEP JUNCTION BOX WITH SINGLE GANG PLASTER RING AND EXTEND 3/4" CONDUIT TO THE ACCESSIBLE CEILING SPACE. TERMINATE CONDUIT IN CEILING SPACE WITH A NYLON BUSHING.

TYPICAL OUTLET CONVENTION

SCALE: NONE

CIRCUIT DESIGNATION → 14EL-3 → a ← LOWERCASE LETTER DESIGNATES SWITCHING OR CIRCUIT ASSIGNMENT. ASSIGNMENTS, SUCH AS a/b, INDICATE DUAL LEVEL SWITCHING.

CIRCUIT DESIGNATION → 14EL-3 → A2 ← LETTER DESIGNATES FIXTURE TYPE.

EXIT SIGNS. CONNECT TO UNSWITCHED HOT EMERGENCY LIGHTING CIRCUIT.

SHADING INDICATES EGRESS LIGHT FIXTURE. CONNECT TO UNSWITCHED HOT EMERGENCY LIGHTING CIRCUIT.

TYPICAL LIGHT FIXTURE CONVENTION

SCALE: NONE

NOTE:

1. SEE EP501 FOR LIGHTING CONTROL REQUIREMENTS.

POWER GENERAL NOTES:

1. ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.
2. THE DIVISION 26 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS.

LIGHTING GENERAL NOTES:

1. REFER TO LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
2. LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
3. CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES (#)

L1 REINSTALL EXISTING LIGHT FIXTURE THAT WAS REMOVED DURING THE DEMOLITION. RECONNECT TO EXISTING BRANCH CIRCUIT THAT WAS IN PLACE. PROVIDE LIGHTING CONTROLS AS SHOWN.

L2 REINSTALL AND RECONNECT LIGHTING CONTROL THAT WAS REMOVED DURING THE DEMOLITION. LIGHTING TO FUNCTION THE SAME AS PRIOR TO THE DEMOLITION.

L3 SHOWER LIGHT CONTROLS.

L4 CONNECT NEW LIGHT FIXTURE TO THE EXISTING BRANCH CIRCUIT THAT IS IN PLACE. PROVIDE LIGHTING CONTROL AS SHOWN.

L5 PROVIDE NEW LIGHTING CONTROLS AS SHOWN.

L6 REINSTALL EXISTING INTERCOM SPEAKER THAT WAS REMOVED AS PART OF THE DEMOLITION. RECONNECT TO EXISTING ZONE / CABLING THAT WAS IN PLACE PRIOR TO THE DEMOLITION. INTERCOM SPEAKER TO FUNCTION THE SAME AS PRIOR TO THE DEMOLITION.

L7 PROVIDE NEW INTERCOM SPEAKER. CONNECT TO EXISTING SYSTEM AS DIRECTED BY THE INTERCOM SYSTEM SUPPLIER, SEE EP501. CONFIRM ALL REQUIREMENTS WITH THE INTERCOM INTEGRATOR PRIOR TO ANY ROUGH-IN.

L8 PROVIDE NEW VOLUME CONTROL AS SHOWN. CONNECT TO SPEAKER AS SHOWN, SEE EP501. CONFIRM ALL REQUIREMENTS WITH THE INTERCOM INTEGRATOR PRIOR TO ANY ROUGH-IN.

P1 REINSTALL AND RECONNECT EXISTING HALO DETECTOR CABLING AND COVER PLATE THAT WAS REMOVED AS PART OF THE DEMOLITION.

P2 PROVIDE NEW FIRE ALARM SYSTEM HORN/STROBE. NEW HORN/STROBE TO BE OF THE SAME MANUFACTURE AS THE EXISTING (FCI E3 SERIES). COORDINATE CONNECTION LOCATION AND ALL REQUIREMENTS WITH THE FIRE ALARM SYSTEM SUPPLIER PRIOR TO ANY ROUGH-IN.

P3 REMOVE AND RETURN THE EXISTING 20A, 1 POLE BREAKERS IN PANEL AND SPACE INDICATE TO THE OWNER. PROVIDE NEW 20A, 2 POLE BREAKER IN PANEL AND SPACE INDICATED. NEW BREAKER SHALL BE OF THE SAME MANUFACTURE (SIEMENS) AND INTERRUPTING CURRENT AS THE EXISTING INSTALLED. CONTRACTOR TO FIELD VERIFY ALL REQUIREMENTS PRIOR TO ORDERING THE BREAKER.

P4 INSTALL EXISTING RECEPTACLE AND COVER PLATE THAT WAS REMOVED AS PART OF THE DEMOLITION. RECONNECT TO THE EXISTING BRANCH CIRCUIT THAT WAS IN PLACE PRIOR TO THE DEMOLITION.

P5 INSTALL EXISTING FIRE ALARM SYSTEM STROBE THAT WAS REMOVED AS PART OF THE DEMOLITION. RECONNECT TO THE NOTIFICATION APPLIANCE CIRCUIT THAT WAS IN PLACE PRIOR TO THE DEMOLITION. COORDINATE ALL WORK AND REQUIREMENTS WITH THE FIRE ALARM SYSTEM SUPPLIER PRIOR TO ANY ROUGH-IN.

P6 UTILIZE EXISTING PATCH PANELS IN THE RACKS FOR THE NEW CABLING INSTALLATION. PROVIDE ALL REQUIRED JACKS, LABELING, TERMINATION AND TESTING OF ALL NEW CABLING (DATA AND CCTV) INSTALLED AS PART OF THIS PROJECT PER THE REQUIREMENTS OF THE CURRENT EDITION OF THE CANYONS SCHOOL DISTRICT NETWORK CABLING GLOBAL SPECIFICATION. OBTAIN CURRENT COPY FROM CANYON SCHOOL DISTRICT PRIOR TO THE BID.

1 LEVEL 1 - HUMAN SERVICES POWER AND SYSTEMS PLAN

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

2 LEVEL 1 - HUMAN SERVICES LIGHTING AND INTERCOM PLAN

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

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CANYONS SCHOOL DISTRICT
- 03/25/24

LICENSED PROFESSIONAL ENGINEER DAVID P. WHITTON No.264397 STATE OF UTAH
2024/05/17

DATE REVISION

PROJECT NUMBER 17127

LEVEL 1 - ELECTRICAL PLANS - AREA D

EE101

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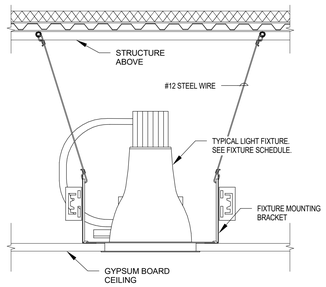
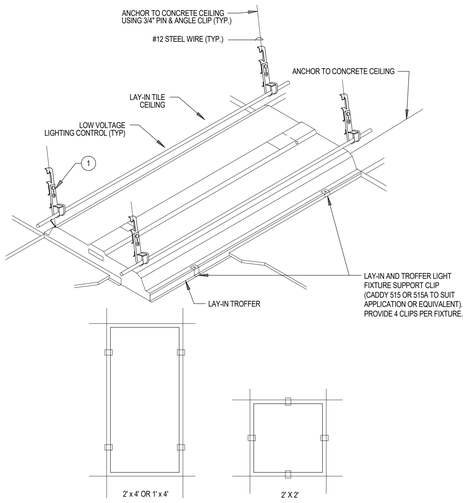
GENERAL NOTES:

1. COORDINATE WITH MECHANICAL DUCTWORK AND EQUIPMENT.



2 RECESSED CAN MOUNTING DETAIL - HARD LID CEILING
SCALE: NONE



SUPPORT CLIP ARRANGEMENT DIAGRAMS

1 PROVIDE J-HOOKS WITH ROD/WIRE CLIP (CADDY 124Z34 OR APPROVED EQUIVALENT) IN QUANTITIES AS MAY BE REQUIRED FOR ROUTING OF LOW VOLTAGE LIGHTING CONTROL CABLES. INSTALL SUPPORTS AND CLIPS 12" ABOVE RECESSED LAY-IN LIGHT FIXTURES. SECURE CABLES AT A SPACING OF NOT MORE THAN 60" ON CENTERS. SUPPLEMENT WITH J-HOOKS SUSPENDED BY ALL-THREAD AS MAY BE REQUIRED TO MEET SPACING CRITERIA. INSTALLATION SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE NEC 300.11. ALL CABLES SHALL BE ROUTED IN A NEAT WORKMANLIKE MANNER PARALLEL AND PERPENDICULAR TO CEILING GRIDS.

1 LAY-IN LIGHT FIXTURE MOUNTING DETAIL
SCALE: NONE

LIGHT FIXTURE SCHEDULE												
TYPE	MANUFACTURER	SERIES	DESCRIPTION	VOLTAGE	LOAD (VA)	MOUNTING	LAMPS NUMBER	LAMPS TYPE	LAMPS WATTS	LAMPS COLOR (KELVIN)	LAMPS CRI	REMARKS
DLS	GOTHAM	EVO	6" APERATURE RECESSED SHOWER LIGHT DEAD FRONT REGRESSED LENS 1,500 LUMENS / WET LOCATION / 0-10V DIMMING	277	12	RECESSED	A/R	LED	12	3500	80	
GID1	LITHONIA	STAKP	2'x4' INDIRECT ACRYLIC LINEAR PRISMATIC DIFFUSER 5,000 LUMENS / 0-10 VOLT DIMMING	277	39	LAY-IN	A/R	LED	39	3500	80	
SW1	LUMINAIRE	VPF44HO	VANDAL RESISTANT LOW PROFILE SURFACE WRAP 0-10 VOLT DIMMING, 4000 LUMENS	277	42	SURFACE	A/R	LED	42	3500	85	

LIGHT FIXTURE ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.

A.F.F.	ABOVE FINISHED FLOOR
WALL@CLG.	WALL MOUNT AT CORNER OF WALL AND CEILING
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT

LIGHT FIXTURE GENERAL NOTES

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER REQUIREMENTS (IF ANY).
5. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWING. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.

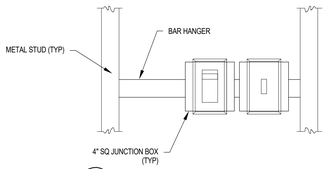
BIDDING REQUIREMENTS

1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

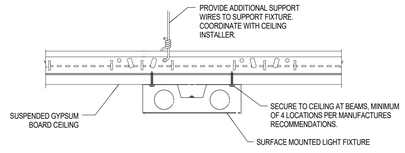
LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL BE NOT BE APPROVED.

NOTE:
WHERE SHOWN ON THE DRAWINGS MOUNT JUNCTION BOXES FOR LIGHT SWITCHES AND DIMMERS NEXT TO EACH OTHER (TYPICAL ALL LOCATIONS). JUNCTION BOXES THAT ARE MOUNTED IN SEPARATE STUD SPACES WILL BE RELOCATED.



4 TYPICAL JUNCTION BOX MOUNTING DETAIL
SCALE: NONE



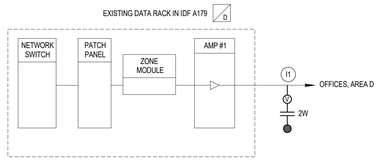
3 SURFACE MOUTED LIGHT FIXTURE DETAIL
SCALE: NONE

SCHOOL INTERCOM EQUIPMENT LIST						
SYMBOL	DESCRIPTION	QTY/ROOM	SUPPLIER	MODEL	ROUGH-IN	CABLE
●	RECESSED INTERIOR CEILING SPEAKER:					
	ROUND BACK BOX	A/R	QUAM	ERD8U	3/4" C. TO ACCESSIBLE CEILING	
	SPEAKER/GRILLE ASSEMBLY	A/R	ATLAS SOUND	SD72W	PAINT GRILL IN COLOR AS SELECTED BY	WEST PENN 25225B (MATCH EXISTING INSTALLED)
	TILE SUPPORT	A/R	QUAM	SSB-2	ARCHITECT	
V	VOLUME CONTROL SWITCH	A/R	QUAM	QC10	1-GANG 3" DEEP	22/4 SOLID BC, SHIELDED
	SWITCH HEIGHT	A/R	ATLAS	AT-35	3/4" C. TO ACCESSIBLE CEILING	WEST PENN 25225B (MATCH EXISTING INSTALLED)

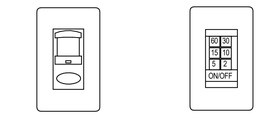
A/R = AS REQUIRED

KEYED NOTES: (8)

1. CONNECT NEW SPEAKER INTO THE EXISTING SPEAKER RUN IN THE AREA, AT AN EXISTING JUNCTION BOX OR SPEAKER. DO NOT CUT OR SPLICE CABLE OUTSIDE OF A SPEAKER OF JUNCTION BOX.



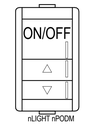
8 INTERCOM RISER (AREA D)
SCALE:



SENSOR SWITCH WSD PDT NGX
OCCUPANCY SENSOR WALL SWITCH
SYMBOL $_{OS}$

SENSOR SWITCH PTS-60
PROGRAMMABLE TIMER SWITCH
SYMBOL $_{TIM}$

6 LINE VOLTAGE LIGHTING CONTROL WALL SWITCH DETAILS
SCALE: NONE

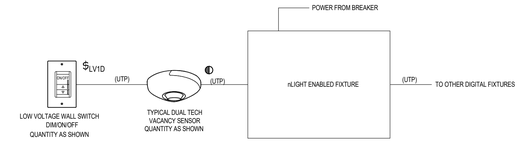


nLIGHT nPODM
SINGLE CHANNEL ON/OFF + RAISE LOWER
SYMBOL $_{LVID}$

5 LOW VOLTAGE LIGHTING CONTROL WALL SWITCH DETAILS
SCALE: NONE

GENERAL NOTES:

1. THE LIGHTING CONTROLS AS SHOW ARE nLIGHT LIGHTING CONTROLS. NO OTHER MANUFACTURES ARE APPROVED.
2. COORDINATE ALL REQUIREMENTS, CONNECTIONS AND CABLE TYPE WITH THE SUPPLIER PRIOR TO ANY INSTALLATION.
3. THE LIGHTING CONTROLS SYSTEM SUPPLIER SHALL PROVIDE COMPUTER DRAFTED SHOP DRAWINGS OF THE ENTIRE LIGHTING CONTROL SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS, CONDUIT SIZE AND ROUTING AND ALL CONDUCTOR SIZES. TYPICAL RISERS AND COPYING AND SUBMITTING THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED.
4. PROVIDE CABLE SUPPORTS FROM DROP WIRE SUPPORTS (CADDY PCS2 OR APPROVED EQUIVALENT) AND SECURING CLIPS IN QUANTITIES AS MAY BE REQUIRED FOR ROUTING OF LOW VOLTAGE LIGHTING CONTROL CABLES. INSTALL SUPPORTS ABOVE LIGHT FIXTURES. SECURE CABLES AT A SPACING OF NOT MORE THAN 60' ON CENTERS. SUPPLEMENT WITH J-HOOKS SUSPENDED BY ALL-THREAD AS MAY BE REQUIRED TO MEET SPACE CRITERIA. INSTALLATION SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE NEC 300.11. ALL CABLES SHALL BE ROUTED IN A NEAT WORKMANLIKE MANNER PARALLEL AND PERPENDICULAR TO STRUCTURE.



7 TYPICAL OFFICE WITH DAYLIGHT LIGHTING CONTROLS
SCALE:

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CANYONS SCHOOL DISTRICT
- 05/08/24

LICENSED PROFESSIONAL ENGINEER
DAVID P. WHITTON
No.264397
STATE OF UTAH
2024/05/17

1 DATE REVISION

PROJECT NUMBER 17127

LIGHTING / INTERCOM DETAILS AND SCHEDULES

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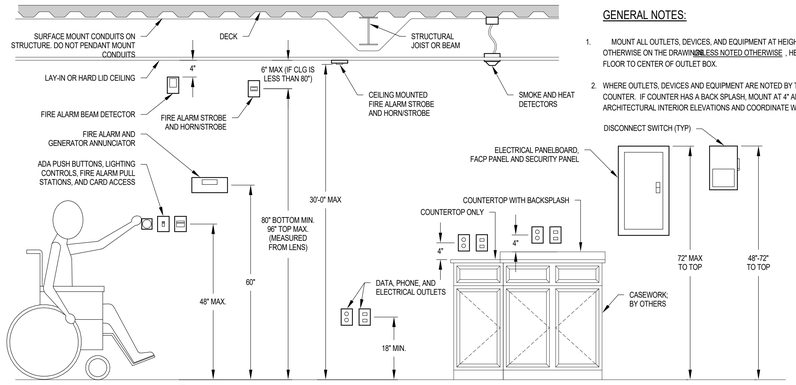
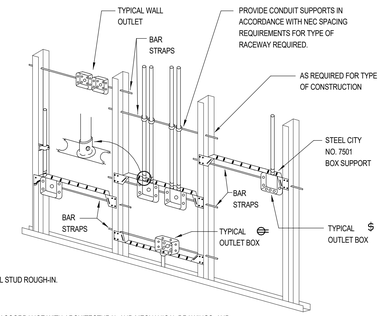


3 ADA AND EQUIPMENT MOUNTING HEIGHT DETAIL
SCALE: NONE

GENERAL NOTES:

1. MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE , HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
2. WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.



NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH UBC 4303 OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.

2 TYPICAL ROUGH-IN REQUIREMENTS
SCALE: NONE

IF PANEL BOARD IS FEED FROM A TRANSFORMER LOCATED IN THE SAME ROOM AS THE PANEL. THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

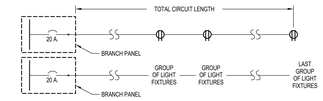
	120 VOLTS	277 VOLTS
a - USING #12 AWG	90 FT.	180 FT.
b - USING #10 AWG	150 FT.	300 FT.
c - USING #8 AWG	250 FT.	450 FT.
d - USING #6 AWG	380 FT.	700 FT.

THE ABOVE CIRCUIT LENGTHS ARE BASED ON 4% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.

IF PANELBOARD IS FEED FROM A TRANSFORMER LOCATED REMOTELY FROM THE PANEL. THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

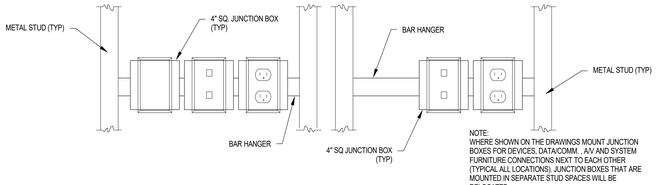
	120 VOLTS	277 VOLTS
a - USING #12 AWG	75 FT.	160 FT.
b - USING #10 AWG	125 FT.	260 FT.
c - USING #8 AWG	205 FT.	420 FT.
d - USING #6 AWG	325 FT.	660 FT.

THE ABOVE CIRCUIT LENGTHS ARE BASED ON 3% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.



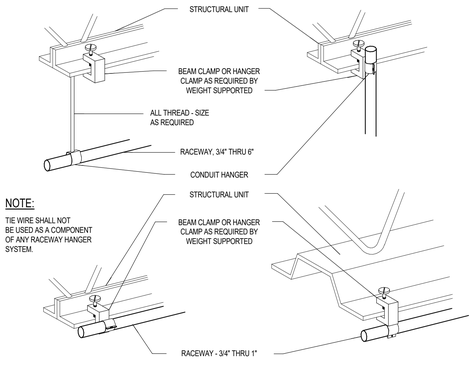
BRANCH CIRCUIT DEFINITION:
CIRCUIT ORIGINATING FROM A 20 AMP CIRCUIT BREAKER IN A BRANCH PANEL AND ENDING AT THE LAST DUPLEX OUTLET ON THE CIRCUIT OR ENDS AT THE LAST LIGHT FIXTURE.

1 TYPICAL BRANCH CIRCUIT LENGTH DETAIL
SCALE: SCHEMATIC



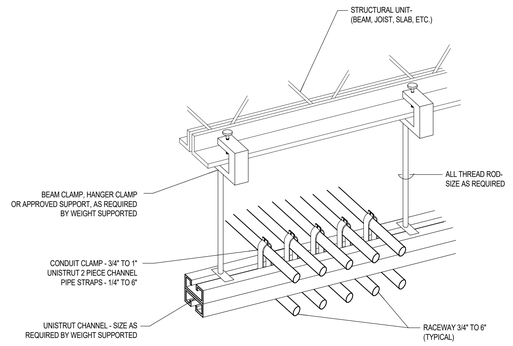
NOTE:
WHERE SHOWN ON THE DRAWINGS MOUNT JUNCTION BOXES FOR DEVICES, DATA/COMM. , A/V AND SYSTEM FURNITURE CONNECTIONS NEXT TO EACH OTHER (TYPICAL ALL LOCATIONS). JUNCTION BOXES THAT ARE MOUNTED IN SEPARATE STUD SPACES WILL BE RELOCATED.

5 TYPICAL JUNCTION BOX MOUNTING DETAIL
SCALE: NONE



NOTE:
TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.

7 TYPICAL RACEWAY DETAILS
SCALE: NONE



6 MULTIPLE RACEWAY SUPPORT DETAIL
SCALE: NONE

MECHANICAL EQUIPMENT SCHEDULE

UNIT TYPE	UNIT NO.	DESCRIPTION	ELECTRICAL INPUT LOAD	TYPE	VOLTAGE	PHASE	AMPERAGE	FEEDER QTY	CONDUIT SIZE	WIRE QTY	WIRE SIZE	WIRE EQPT GND	STARTER / DISCONNECT/ CONNECTION AT UNIT NOTE	STARTER SIZE	OCP SIZE	OCP POLES	DISCONNECT SIZE	DISCONNECT POLES	ENCLOSURE	REMARKS
FC	10-14	FAN COIL	.8	MCA	208	1	.8	1	3/4"	2	12	12	1A	-	-	-	1 HP	1		

SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

STARTER / DISCONNECT NOTES:

1. MANUAL STARTER WITH THERMAL OVERLOAD
2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL
3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT
4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
5. COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)
6. REDUCED VOLTAGE STARTER
7. COMBINATION TWO-SPEED STARTER / FUSED DISCONNECT
8. COMBINATION TWO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
9. NON-FUSED DISCONNECT SWITCH
10. FUSED DISCONNECT SWITCH
11. BREAKER AND ENCLOSURE
12. DIRECT CONNECTION
13. DUPLEX RECEPTACLE OUTLET
14. SPECIAL PURPOSE OUTLET
15. SHUNT-TRIP BREAKER AND ENCLOSURE
16. TOGGLE SWITCH
17. MAGNETIC STARTER
18. BUSSMAN FUSED ELEVATOR POWER MODULE
19. NON-FUSED DISCONNECT WITH LATE-MAKE EARLY-BREAK CONTACT
20. EXISTING DISCONNECT

INSTALLATION NOTES:

A. FURNISHED, INSTALLED, & CONNECTED UNDER DIVISION 26.
B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 26.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.
D. FURNISHED, INSTALLED, & CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 26

GENERAL NOTES:

A. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT SUPPLIED.
B. REFER TO FEEDER SCHEDULE ON THE ONE-LINE DIAGRAM FOR CONDUIT AND WIRE SIZES.
C. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.
D. ELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIRING CONNECTION BY ELECTRICAL CONTRACTOR AND COORDINATE ALL REQUIREMENTS PRIOR TO ROUGH-IN.
E. SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

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HILLCREST HIGH REPLACEMENT
7350 SOUTH 900 EAST, MIDVALE, UT 84047
CANYONS SCHOOL DISTRICT
- 05/08/24

LICENSED PROFESSIONAL ENGINEER
DAVID P. WHITTON
No.264397
STATE OF UTAH
2024/05/17

DATE REVISION

PROJECT NUMBER 17127

POWER DETAILS

EE502

ENVISION ENGINEERING
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CABLING GENERAL NOTES:

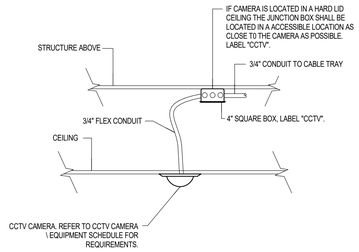
1. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FACEPLATES, JACKS, CABLE, AND ALL CABLE TERMINATIONS AS REQUIRED FOR A COMPLETE INSTALLATION.
2. ALL CABLES SHALL BE TERMINATED AND LABELED AT BOTH ENDS. PROVIDE LABELING AS DIRECTED BY OWNERS IT MANAGER.
3. CONTRACTOR IS RESPONSIBLE FOR TESTING ALL CABLES AND CONNECTIONS TO ENSURE BICSI AND EIA/TIA STANDARDS ARE MET. PROVIDE A WRITTEN REPORT TO OWNER FOR EACH CABLE TESTED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
4. INSTALL CABLING IN RACEWAYS, AS SHOWN ON DRAWINGS, EXCEPT WITHIN CONSOLES, CABINETS, DESK, AND COUNTERS AND ACCESSIBLE CEILING SPACES. WHERE CABLES ARE ROUTED IN ACCESSIBLE CEILINGS, SECURE AND SUPPORT CABLES WITH J-HOOKS. INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OR EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS. USE UL-LISTED PLENUM CABLE THROUGHOUT THE ENTIRE SYSTEM. BUNDLE CABLE OF THE SAME SYSTEM TOGETHER, DO NOT MIX SYSTEMS.
5. THE DATA/COMM SYSTEM SUPPLIER SHALL PROVIDE COMPUTER DRAFTED SHOP DRAWINGS OF THE ENTIRE DATA SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS, CONDUIT SIZE AND ROUTING AND ALL CABLE TYPES. TYPICAL RISERS WILL NOT BE ACCEPTED.

CCTV SYSTEM GENERAL NOTES:

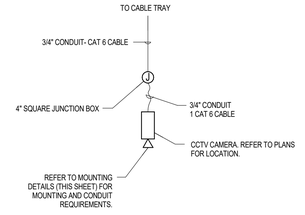
1. AXIS IS THE ONLY ACCEPTED CAMERA MANUFACTURER.
2. COORDINATE ALL CAMERA LOCATIONS, WIRING AND ROUGH-IN REQUIREMENTS WITH OWNER AND SUPPLIER PRIOR TO ROUGH-IN.
3. THE CCTV SYSTEM SUPPLIER SHALL PROVIDE COMPUTER DRAFTED SHOP DRAWINGS OF THE ENTIRE CCTV SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS, CONDUIT SIZE AND ROUTING AND ALL CONDUCTOR SIZES. TYPICAL RISERS AND COPYING AND SUBMITTING THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED.
4. PROVIDE 3/4" C. WITH CABLE FROM EACH CAMERA LOCATION TO THE CABLE TRAY AS CALLED OUT.
5. ALL CABLING NOT SPECIFICALLY IDENTIFIED IN THE RISER DIAGRAM SHALL BE MANUFACTURER RECOMMENDED CABLING.
6. REFER TO PLANS FOR CAMERA LOCATIONS.
7. EACH CAMERA TO HAVE A DEDICATED CABLE DROP BACK TO DATA RACK.
8. PROVIDE CCTV MAP OF THE BUILDING SHOWING ALL CAMERA LOCATIONS AND NUMBERS. LOCATE MAP AS DIRECTED BY THE OWNER.

CCTV CAMERA/EQUIPMENT SCHEDULE

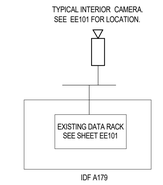
		VOLTAGE			ENCLOSURE				CAMERA TYPE				MOUNT TYPE						
CAMERA ID#	MOUNTING LOCATION	120 VAC	24VDC	PoE	EXTERIOR	VANDAL RESIST.	EXTERIOR DOME	INTERIOR DOME	1 MP COLOR	HDTV COLOR	HDTV BLACK AND WHITE	5 MP COLOR	POLE	WALL	SURFACE	RECESSED	COVERT	PENDANT	AXIS CAMERA PART NUMBER
209	PANTRY			X		X		X		X						X			P-3225-LV



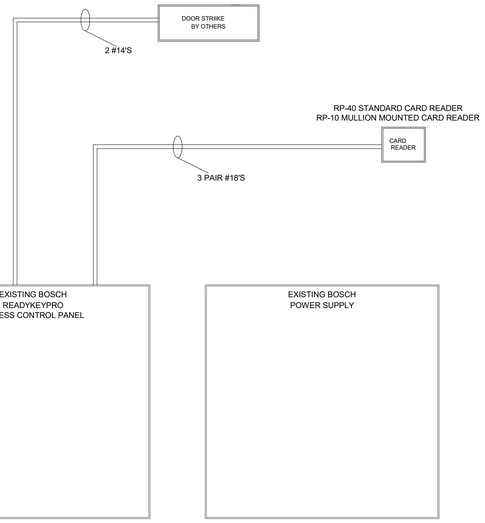
3 INTERIOR CEILING MOUNTED CAMERA DETAIL
SCALE: NONE



2 CCTV CAMERA ROUGH-IN DETAIL
SCALE: NONE



1 CCTV RISIER DIAGRAM
SCALE: NONE



4 TYPICAL ACCESS CONTROL SYSTEM RISER DIAGRAM
SCALE: NONE

ACCESS CONTROL COORDINATION REQUIREMENTS:

CODE REFERENCES AND REQUIREMENTS:
2016 NFPA 101 - LIFE SAFETY CODE
- 7.2.1.5.6(5) REQUIRES THAT LOSS OF POWER WILL UNLOCK THE ELECTRICALLY CONTROLLED DOOR HARDWARE.
- 7.2.1.6.2 (4) REQUIRES THAT ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM UNLOCK ALL DOORS LOCATED IN THE PATH OF EGRESS.

2016 NFPA 80 - FIRE DOORS AND OTHER OPENING PROTECTIVES
- 6.1.3.4 REQUIRES THAT POWER OPERATED FIRE DOORS HAVE A RELEASING DEVICE TO AUTOMATICALLY RELEASE POWER UPON FIRE ALARM.
- 6.4.4.3.3 REQUIRES THAT FIRE RATED DOORS BE POSITIVELY LATCHED TO MAINTAIN THE FIRE RATING, ALL ELECTRIC STRIKES USED IN FIRE RATED DOORS MUST BE FAIL SECURE.

2012 IBC - INTERNATIONAL BUILDING CODE
- 1008.1.9.8 REQUIRES ELECTROMAGNETICALLY LOCKED DOORS HAVE A SENSOR RELEASE SWITCH EITHER AUTOMATIC OR BY A READILY ACCESSIBLE WALL MOUNTED PUSHBUTTON TO RELEASE THE LOCK.

INTEGRATION WITH FIRE ALARM
ALL MAGNETIC LOCKS SHALL BE UNLOCKED DURING A GENERAL FIRE ALARM. THIS ACTION IS NOT REQUIRED IF SYSTEM IS IN ALARM BY MEANS OF A MANUAL PULL STATION. AUTOMATIC DETECTION DEVICES SUCH AS SMOKE DETECTORS OR SPRINKLER FLOW REQUIRE UNLOCKING AND THE DOOR MUST REMAIN UNLOCKED UNTIL FIRE ALARM SYSTEM RESET. CONTRACTOR SHALL INCLUDE ALL FIRE ALARM INTERFACE EQUIPMENT SUCH AS ADDRESSIBLE CONTROL MODULES OR BY CONTACT CLOSURE SIGNALING TO THE ACCESS CONTROL PANELS AS NECESSARY TO MEET THE CODE REQUIREMENTS. ALL DOORS IN STAIRWELLS MUST ALLOW FOR RE-ENTRY.

TO ENSURE A COMPLETE AND OPERATING ACCESS CONTROL SYSTEM AND TO ELIMINATE DELAYS, INSUFFICIENT OR UNNECESSARY WORK BY ALL OF THE ENTITIES INVOLVED, THE FOLLOWING STEPS SHALL BE COMPLETED. THE FAILURE TO DO SO RESULTING IN ADDED COSTS AND LOST TIME WILL BE BORN SOLELY BY THE CONTRACTOR. NO ADDITIONAL PAYMENTS WILL BE MADE BY THE OWNER TO COVER WORK DESCRIBED BELOW.

DURING THE BIDDING PROCESS:
1. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE FLOORPLAN DRAWINGS AND DETAILS ON THIS SHEET. THE FLOORPLANS WILL INDICATE WHICH DOORS HAVE ACCESS CONTROL EQUIPMENT REQUIRING ROUGH-IN. DEVICE LOCATIONS REQUIRING JUNCTION BOXES WILL BE SHOWN ON THE FLOORPLANS, BUT ALL CONDUIT AND HARDWARE REQUIREMENTS CAN ONLY BE DETERMINED BY REFERRING TO THE SPECIFIC DOOR ROUGH-IN DETAILS AND THE ARCHITECTURAL DOOR HARDWARE SPECIFICATION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
2. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE SPECIFICATIONS, AND DEFINED EGRESS PATHS. IDENTIFY ACCESS CONTROLLED DOORS LOCATED IN FIRE RATED WALLS AND IN PATHS OF EGRESS REQUIRING ADDITIONAL CONTROL DEVICES.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY WHICH DOORS USING AN ELECTRIFIED EXIT DEVICE WILL REQUIRE 120V AT THE DOOR. THIS IS MANUFACTURER SPECIFIC AND MUST BE CONFIRMED WITH THE GENERAL CONTRACTOR ACCORDING TO WHICH HARDWARE SUPPLIER BEING USED.

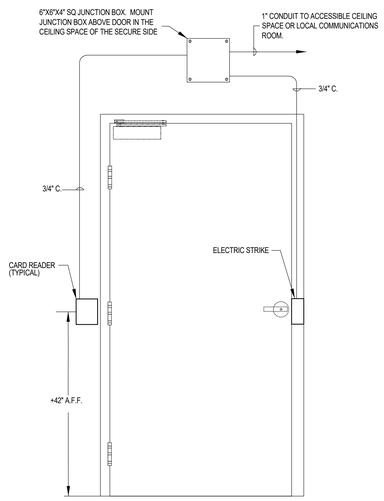
POST-BID, DURING THE SUBMITTAL PROCESS:
4. DURING THE SUBMITTAL PROCESS, THE ELECTRICAL CONTRACTOR SHALL REVIEW THE APPROVED DOOR HARDWARE SUBMITTAL TO CONFIRM THE FINAL HARDWARE SETS PRIOR TO ANY ROUGH-IN. ANY QUESTIONS SHALL BE ISSUED BY FORMAL RFI.
5. MEET WITH THE ACCESS CONTROL VENDOR TO REVIEW ALL FINAL INTEGRATION AND ROUGH-IN REQUIREMENTS. ONLY AFTER CONFIRMING THE FINAL DOOR HARDWARE AND ACCESS CONTROL SYSTEM REQUIREMENTS SHALL ANY ROUGH-IN WORK BEGINS.

GENERAL NOTES:

1. ALL CONDUIT SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
2. THE DOOR ROUGH-IN INFORMATION SHOWN ON THESE DRAWINGS ARE SCHEMATIC IN NATURE AND CANNOT ACCOUNT FOR ALL SPECIFIC VENDOR REQUIREMENTS, OR ACTUAL DOOR HARDWARE PROVIDED. COORDINATE SPECIFIC LOCATIONS WITH SECURITY CONTRACTOR AND APPROVED DOOR HARDWARE SCHEDULES PRIOR TO ROUGH-IN. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE CONDUIT RACEWAY SYSTEM AT THE DOOR AND BACK TO LOCAL ELECTRICAL ROOM.
3. IF REX IS NOT INCLUDED IN DOOR HANDLE OR EXIT DEVICE, PROVIDE BOX FOR WALL MOUNTED REX DEVICE. VERIFY WITH DOOR HARDWARE PRIOR TO ROUGH-IN.
4. PROVIDE CONDUIT AND DEVICE BACK BOX ROUGH-IN AT ALL CARD READER DOOR LOCATIONS. CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED AND ALL BOXES SHALL BE 4 SQUARE WITH A SINGLE GANG MUD RING FOR DEVICES OR JUST A SINGLE GANG BOX IF INSTALLED AT THE DOOR FRAME.
5. A SINGLE FIRE ALARM CONTROL MODULE MAY BE USED TO CONTROL THE POWER TO MULTIPLE DOORS IF COORDINATED WITH THE ACCESS CONTROL SYSTEM VENDOR TO WIRE DOORS SEPARATE FROM OTHER DOORS TOGETHER ON THE SAME POWER SUPPLY LOOP.
6. IF NO ACCESSIBLE CEILING SPACE IS NEAR THE CONTROLLED DOOR, ALL CONDUITS ARE TO BE RUN CONTINUOUS TO THE DOOR ACCESS CONTROL PANEL UNLESS A LOCATION IS DETERMINED TO BE ACCEPTABLE TO THE ENGINEER PRIOR TO INSTALLATION.

ABBREVIATIONS:

AFF - ABOVE FINISHED FLOOR
AP - ACCESS CONTROL PANEL
CR - CARD READER
DHS - DOOR HARDWARE SUPPLIER
DPS - DOOR POSITION SWITCH
EPT - ELECTRIC POWER TRANSFER
ES - ELECTRIC STRIKE
MAG LOCK - MAGNETIC LOCK
RX - EXIT DEVICE
PB - DOOR RELEASE PUSH BUTTON (MANUAL REX)
REX - REQUEST TO EXIT
RFI - REQUEST FOR INFORMATION



5 TYPICAL DOOR
SCALE: NONE

ACCESS CONTROL SYSTEM GENERAL NOTES:

1. PROVIDE BOSCH ACCESS CONTROL SYSTEM.
2. CONFIRM ALL WIRING REQUIREMENTS WITH ACCESS CONTROL SYSTEM SUPPLIER AND PROVIDE IN ACCORDANCE THEREWITH.
3. THE SYSTEM SHALL BE PROGRAMMED PER ALL OWNERS REQUIREMENTS. VERIFY PRIOR TO ANY PROGRAMMING .
4. WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPLICING IS ALLOWED.
5. PROVIDE ACCESS CONTROL MAP OF THE BUILDING SHOWING ALL ACCESS CONTROL SYSTEM DEVICES. LOCATE MAP IN LOCATION AS DIRECTED BY THE OWNER.
6. ALL ACCESS CONTROL CABLING SHALL BE RUN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL JUNCTION BOXES SHALL BE PAINTED AND LABELED PER ALL OWNER REQUIREMENTS .
7. VERIFY ALL LOCATIONS OF ACCESS CONTROL DEVICES WITH THE OWNER PRIOR TO ANY ROUGH-IN.
8. THE ACCESS CONTROL SYSTEM SUPPLIER SHALL PROVIDE COMPUTER DRAFTED SHOP DRAWINGS OF THE ENTIRE ACCESS CONTROL SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS, CONDUIT SIZE AND ROUTING AND ALL CONDUCTOR SIZES. TYPICAL RISERS AND COPYING AND SUBMITTING THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED.

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SYSTEMS RISERS AND DETAILS

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