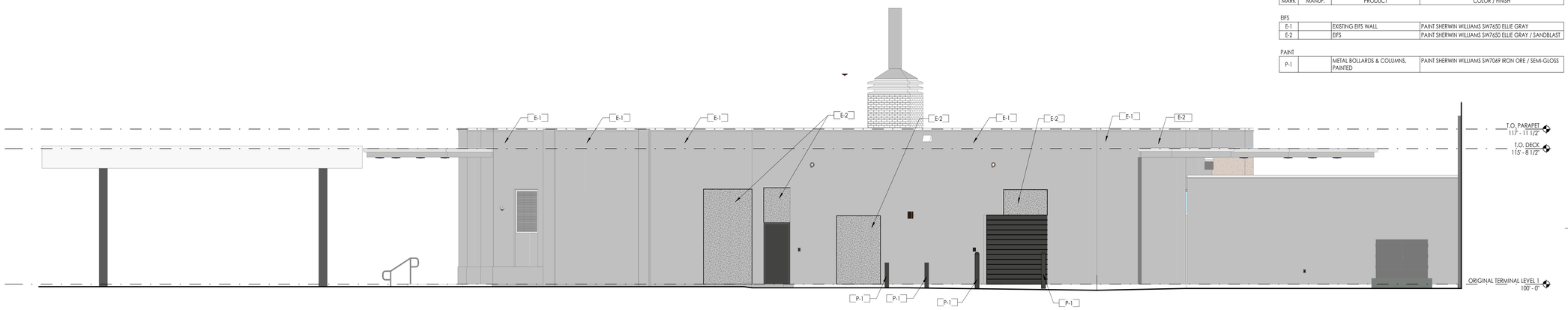
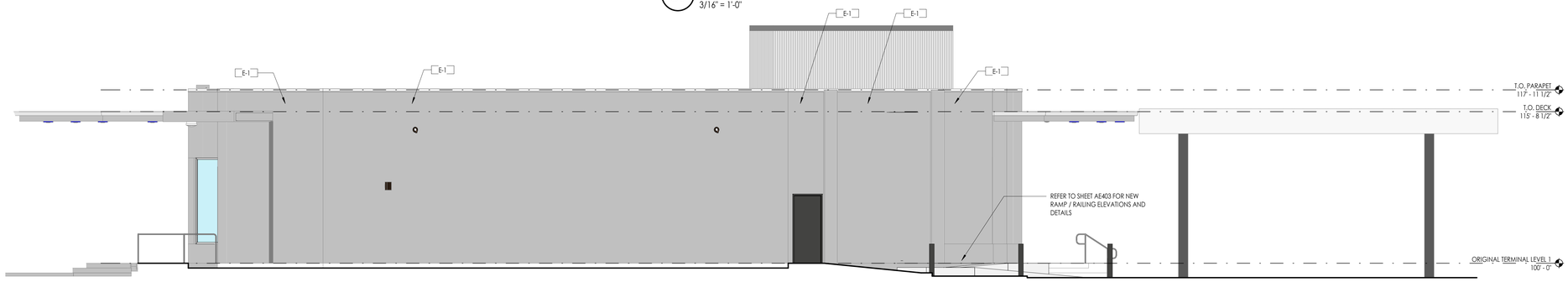
EXTERIOR MATERIAL SCHEDULE			
MARK	MANUF.	PRODUCT	COLOR / FINISH
EIFS			
E-1		EXISTING EIFS WALL	PAINT SHERWIN WILLIAMS SW7650 ELLIE GRAY
E-2		EIFS	PAINT SHERWIN WILLIAMS SW7650 ELLIE GRAY / SANDBLAST
PAINT			
P-1		METAL BOLLARDS & COLUMNS, PAINTED	PAINT SHERWIN WILLIAMS SW7069 IRON ORE / SEMI-GLOSS

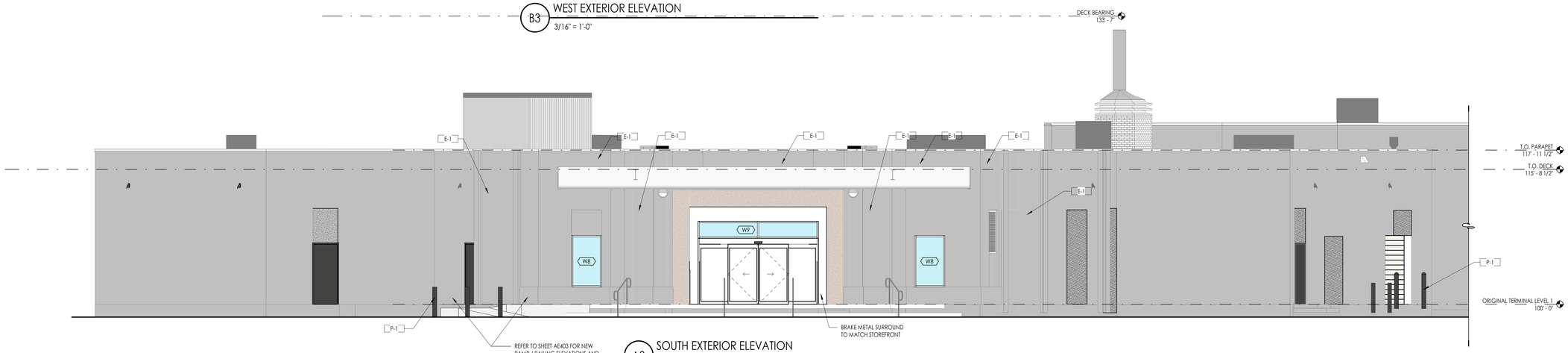


D3 EAST EXTERIOR ELEVATION
3/16" = 1'-0"

C3 NORTH EXTERIOR ELEVATION
3/16" = 1'-0"



B3 WEST EXTERIOR ELEVATION
3/16" = 1'-0"



A3 SOUTH EXTERIOR ELEVATION
3/16" = 1'-0"

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M. SHANE SANDERS
No. 5926553
11.15.23
LICENSED ARCHITECT

Consultant

Project Name
OGDEN-HINCKLEY AIRPORT
TERMINAL REMODEL
3909 AIRPORT ROAD
OGDEN, UT 84405

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No.	Date	Description
1	11.14.23	BID DOCUMENTS

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EXTERIOR ELEVATIONS

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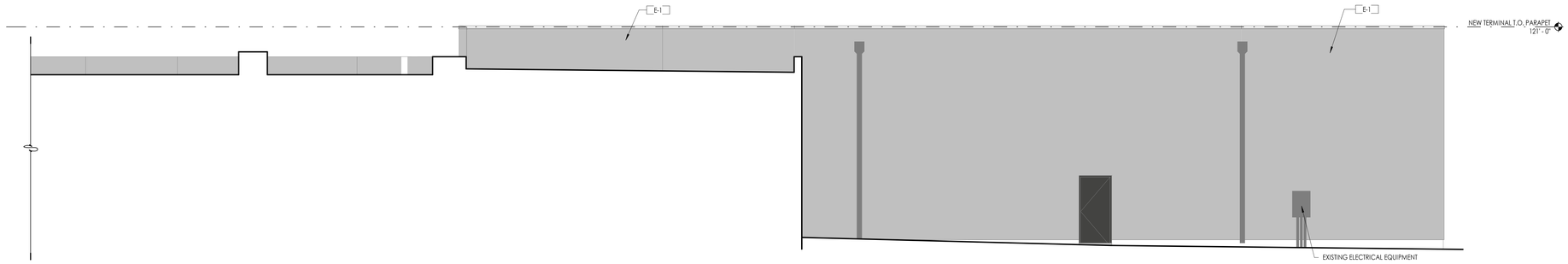
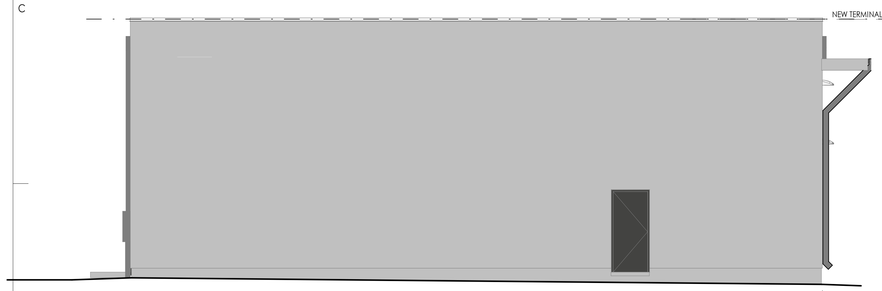
AE201

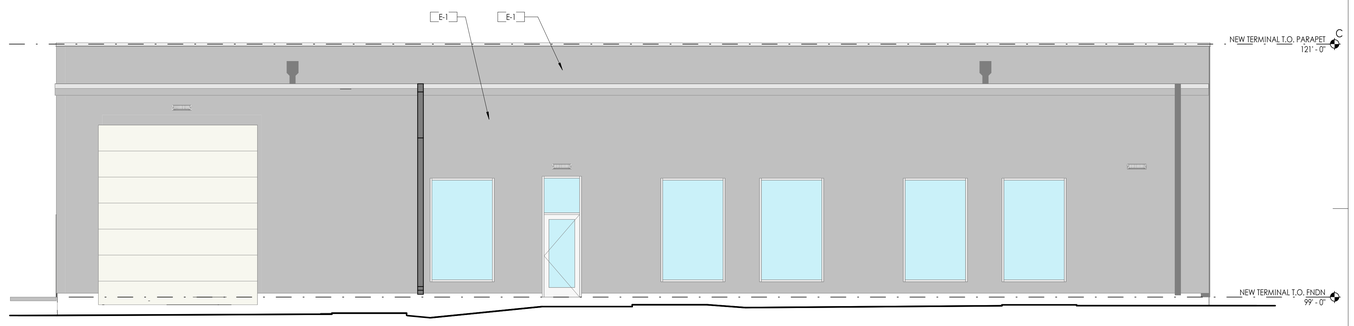
EXTERIOR MATERIAL SCHEDULE			
MARK	MANUF.	PRODUCT	COLOR / FINISH
EIFS			
E-1		EXISTING EIFS WALL	PAINT SHERWIN WILLIAMS SW7650 ELLIE GRAY
E-2		EIFS	PAINT SHERWIN WILLIAMS SW7650 ELLIE GRAY / SANDBLAST
PAINT			
P-1		METAL BOLLARDS & COLUMNS, PAINTED	PAINT SHERWIN WILLIAMS SW7069 IRON ORE / SEMI-GLOSS



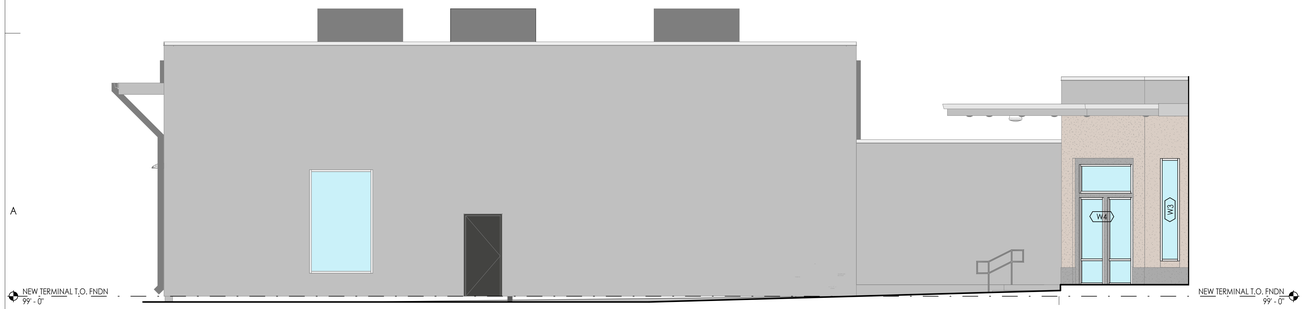
D3 SOUTH EXTERIOR ELEVATION
3/16" = 1'-0"



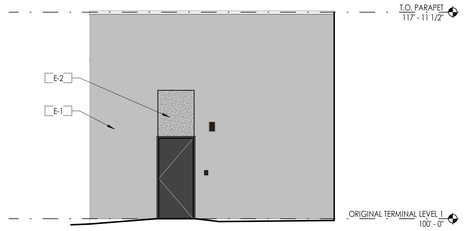
B1 EAST EXTERIOR ELEVATION
3/16" = 1'-0"



B3 NORTH EXTERIOR ELEVATION
3/16" = 1'-0"



A2 WEST EXTERIOR ELEVATION
3/16" = 1'-0"



A5 SOUTH EXTERIOR ELEVATION
3/16" = 1'-0"

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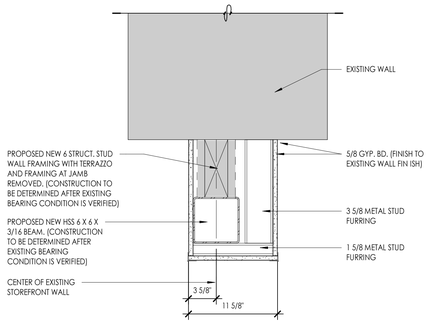
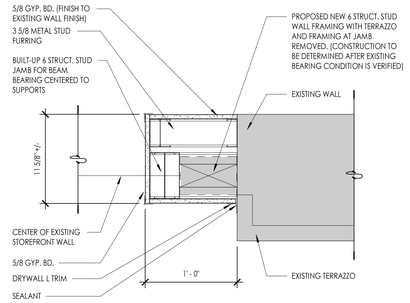
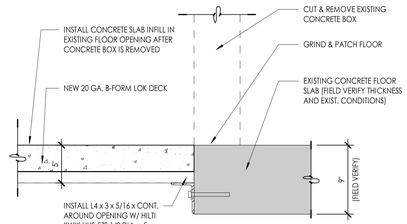
AE202



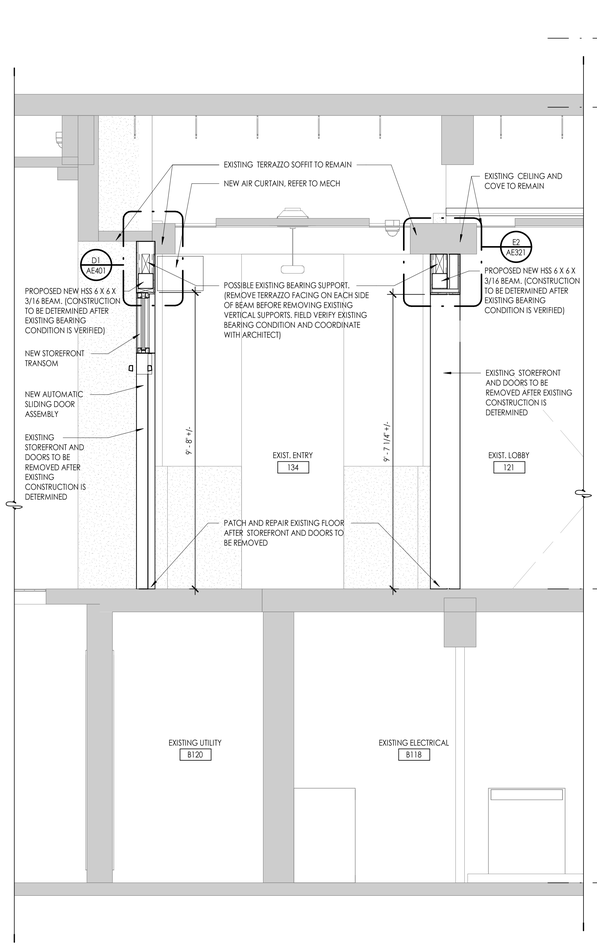
E2 HEAD DETAIL
1 1/2" = 1'-0"



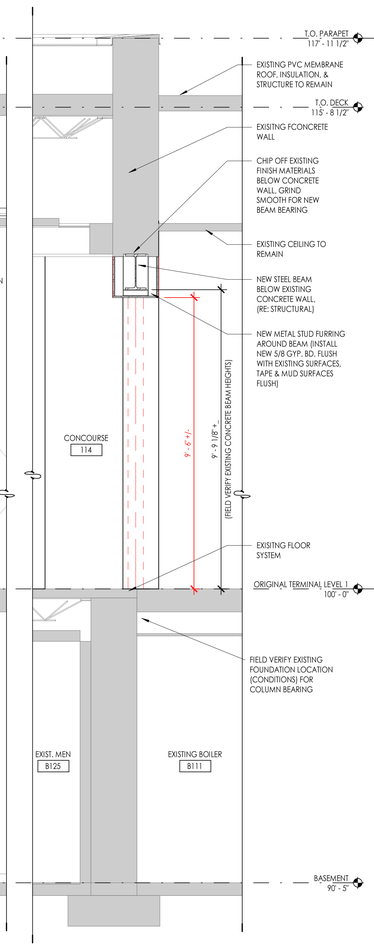
E4 WALL DETAIL
1 1/2" = 1'-0"



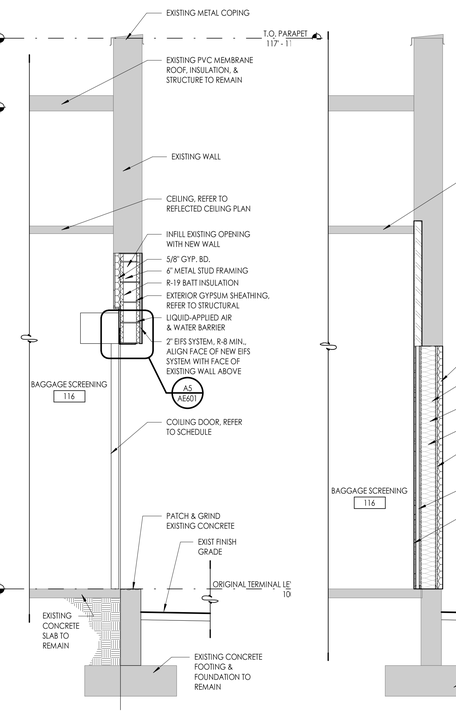
E5 FLOOR INFILL DETAIL
1 1/2" = 1'-0"



A1 WALL SECTION
1/2" = 1'-0"

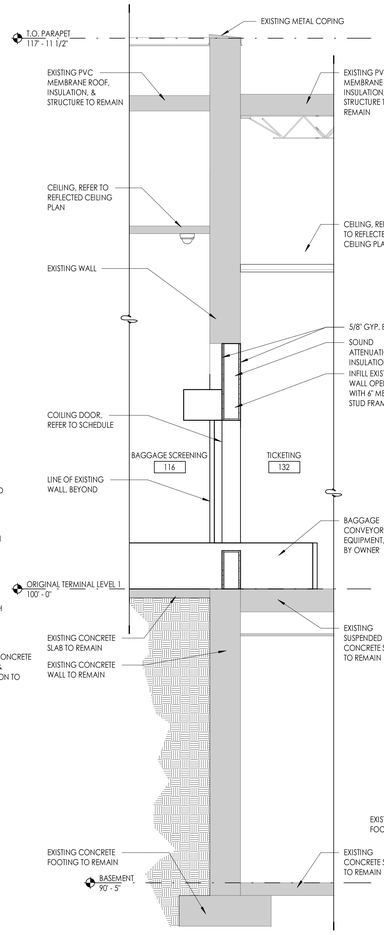


A2 WALL SECTION - ALTERNATE #1
1/2" = 1'-0"

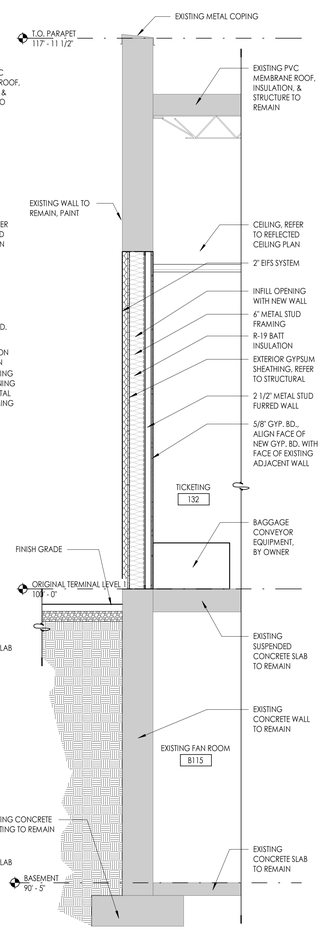


B3 WALL SECTION
1/2" = 1'-0"

B4 WALL SECTION
1/2" = 1'-0"



A5 WALL SECTION
1/2" = 1'-0"



A6 WALL SECTION
1/2" = 1'-0"

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Consultant

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OGDEN, UT 84405

Issued

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WALL SECTIONS

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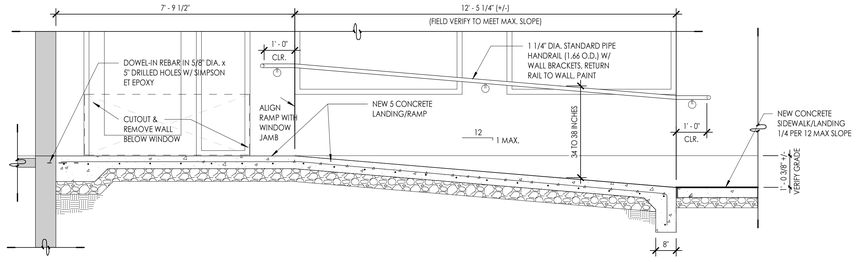
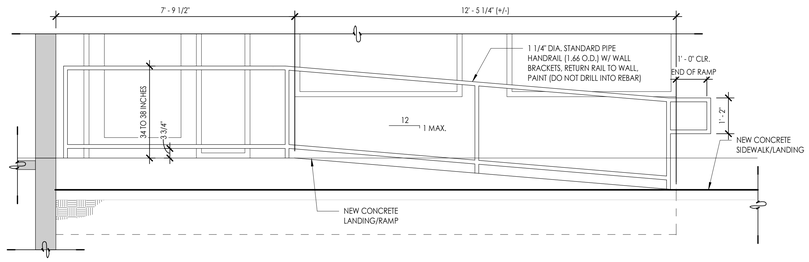
AE321



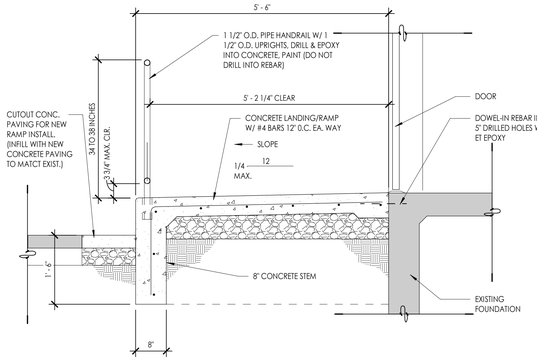
E1 CONCRETE LANDING SECTION WITH RAMP

1/2" = 1'-0"



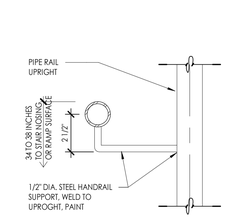
D1 CONCRETE LANDING SECTION WITH RAMP RAIL

1/2" = 1'-0"



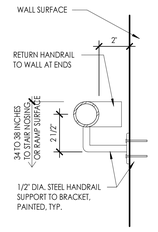
D3 CONCRETE LANDING SECTION

3/4" = 1'-0"



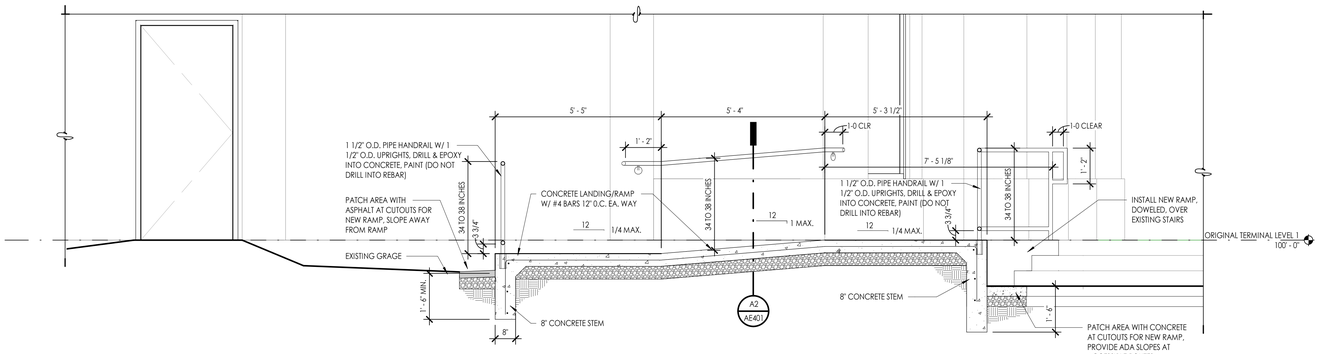
E5 HANDRAIL DETAIL

3" = 1'-0"



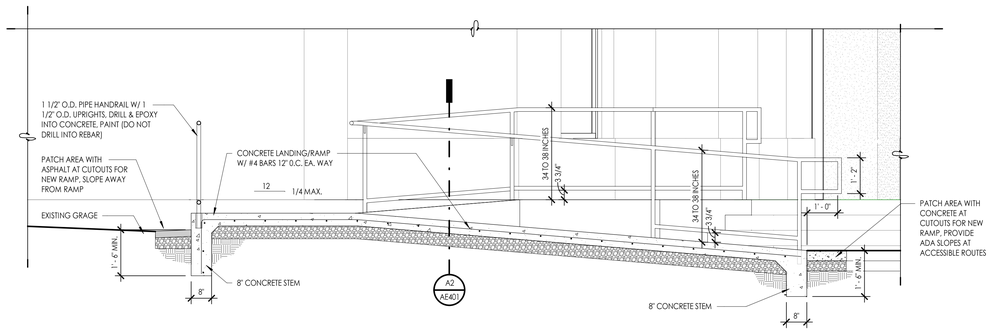
E6 HANDRAIL DETAIL

3" = 1'-0"



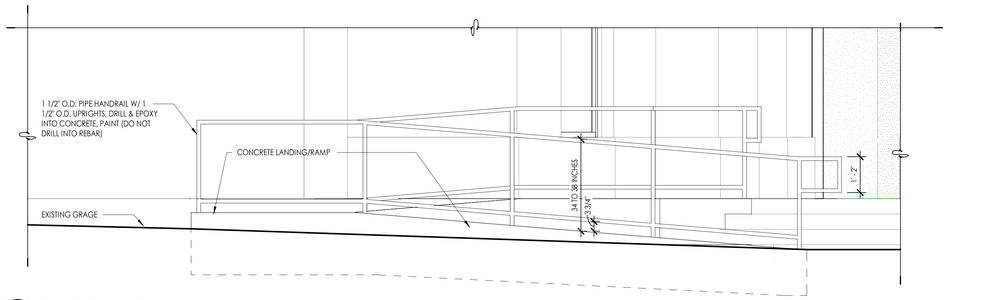
B1 RAMP SECTION

1/2" = 1'-0"



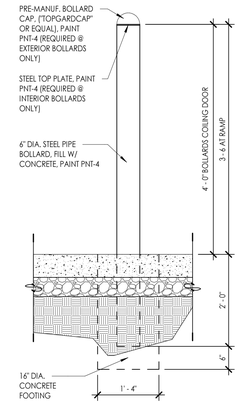
B4 RAMP SECTION

1/2" = 1'-0"



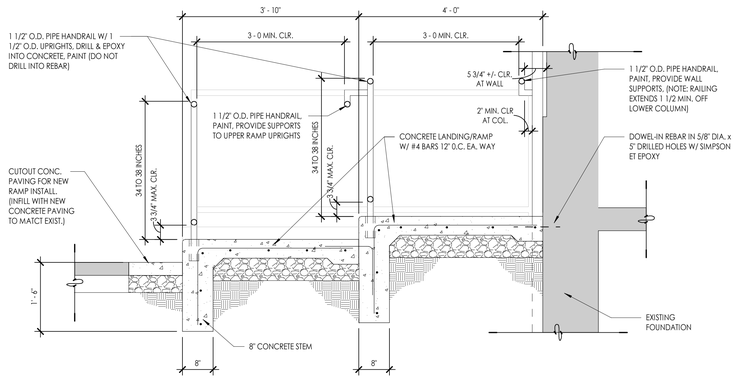
A4 RAMP ELEVATION

1/2" = 1'-0"



A1 6" BOLLARD DETAIL

3/4" = 1'-0"



A2 CONCRETE LANDING SECTION

3/4" = 1'-0"

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11.15.23
LICENSED ARCHITECT

Consultant

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OGDEN-HINCKLEY AIRPORT
TERMINAL REMODEL
3909 AIRPORT ROAD
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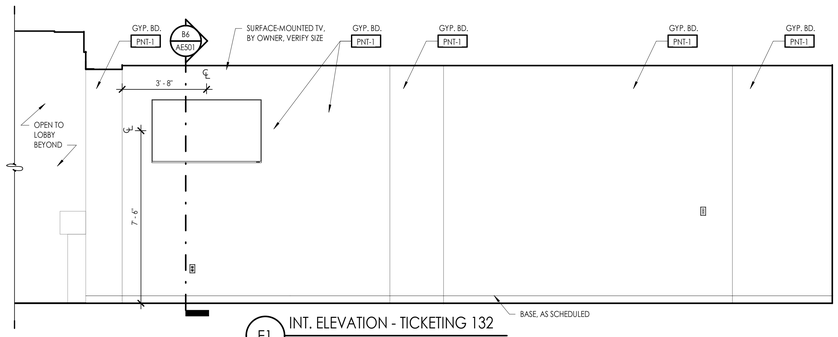
RAMP & LANDING SECTIONS

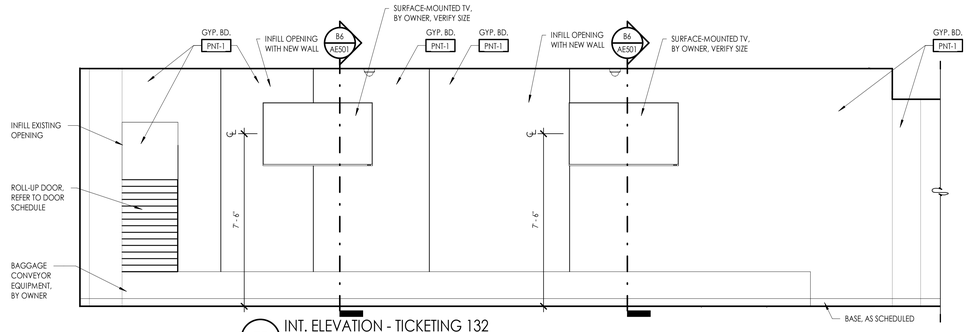
Sheet Number

AE401



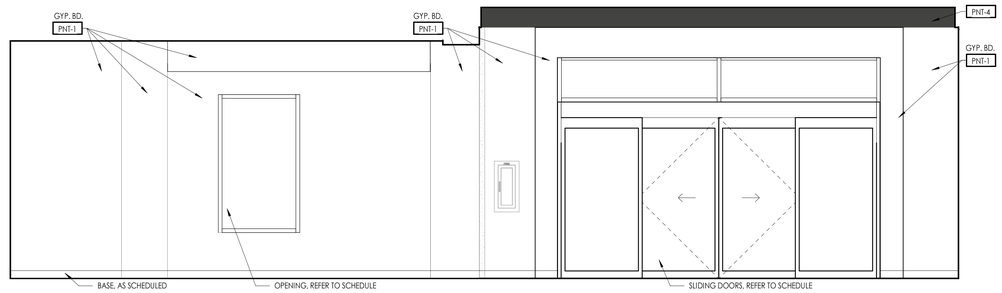
E1 INT. ELEVATION - TICKETING 132

3/8" = 1'-0"



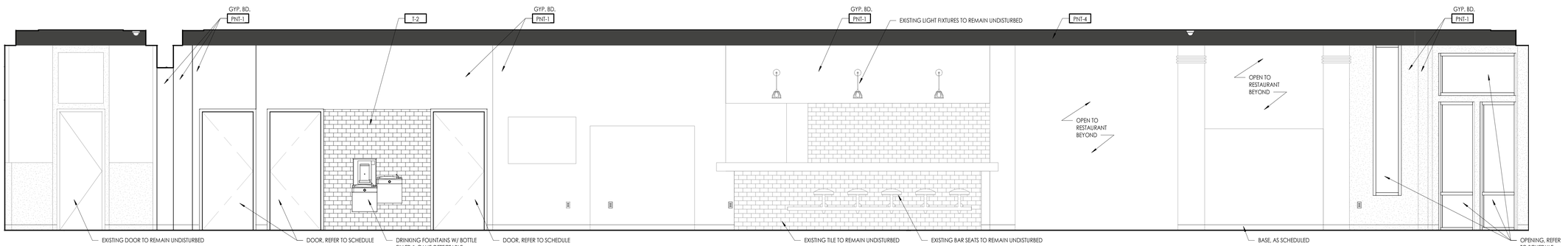
E5 INT. ELEVATION - TICKETING 132

3/8" = 1'-0"



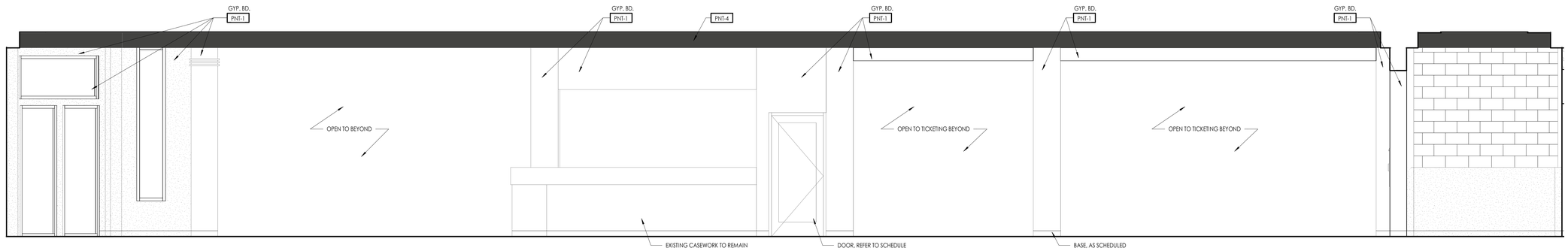
D5 INT. ELEVATION - EXIST. LOBBY 121

3/8" = 1'-0"



B3 INT. ELEVATION - EXIST. LOBBY 121

3/8" = 1'-0"



A3 INT. ELEVATION - EXIST. LOBBY 121

3/8" = 1'-0"

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TERMINAL REMODEL

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INTERIOR ELEVATIONS

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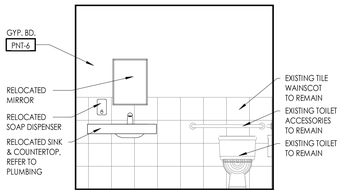
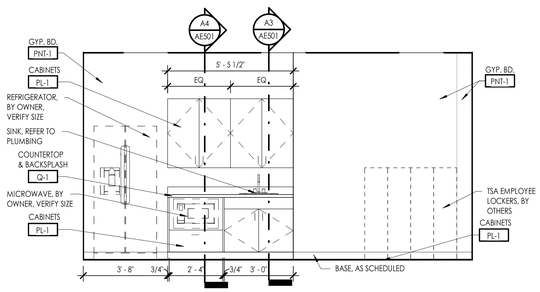
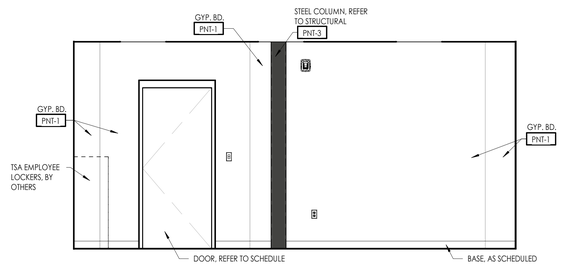
AE441



C6 INT. ELEVATION - EXIST. WOMEN 119
3/8" = 1'-0"

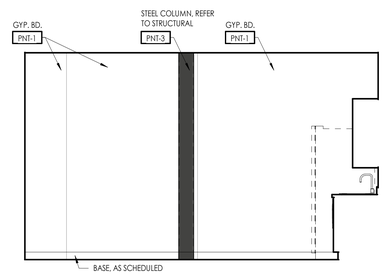


B2 INT. ELEVATION - TSA BREAK ROOM 117
3/8" = 1'-0"

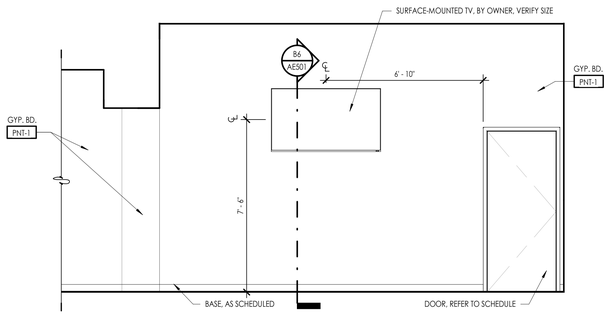


B3 INT. ELEVATION - TSA BREAK ROOM 117
3/8" = 1'-0"

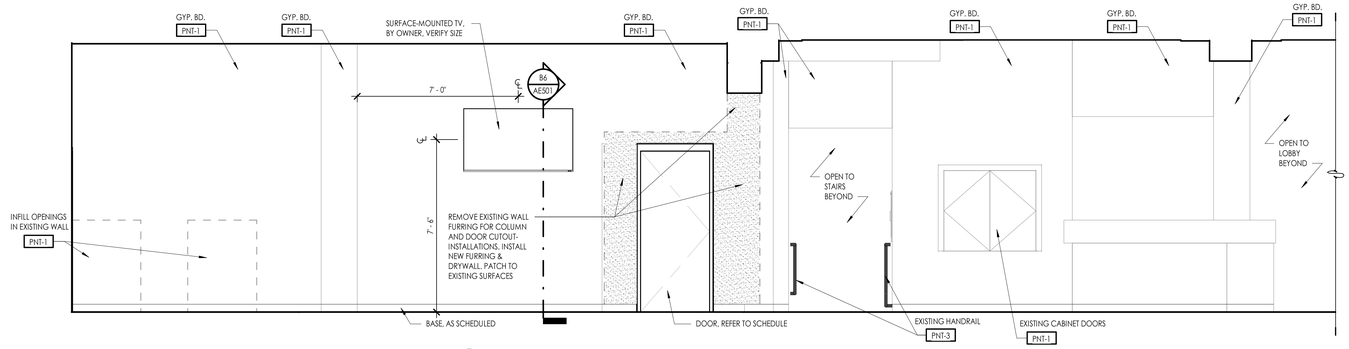
B5 INT. ELEVATION - TSA BREAK ROOM 117
3/8" = 1'-0"



B6 INT. ELEVATION - TSA BREAK ROOM 117
3/8" = 1'-0"



A2 INT. ELEVATION - CONCOURSE 114
3/8" = 1'-0"



A4 INT. ELEVATION - CONCOURSE 114
3/8" = 1'-0"

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INTERIOR ELEVATIONS

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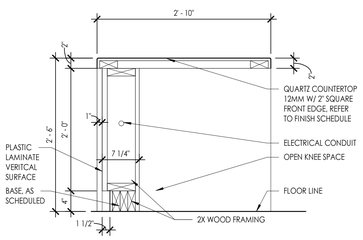
AE442

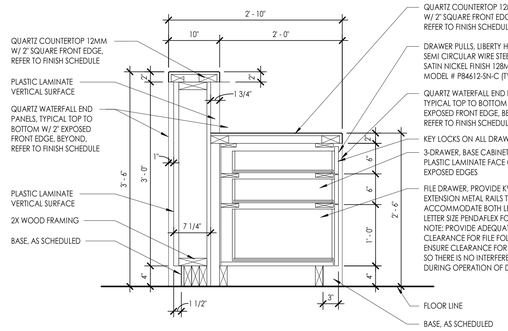
GENERAL MILLWORK NOTES

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS , BUT NOT LIMITED TO : POWER, DATA, AV OUTLETS, HORNSTROBE , SWITCHES, CO2 SENSORS, AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVATIONS. MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO ADA MOUNTING HEIGHTS FOR MOUNTING LOCATION GUIDELINES.

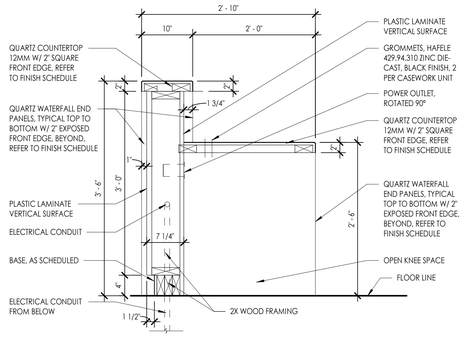
1. ALL MILL WORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP. TYP.
2. CABINET DEPTHS IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE
4. PROVIDE GROMMET WHERE "G" IS LABELED ON PLANS OR ELEVATIONS
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE TO MATCH COUNTERTOP, ON BACK SIDE WALLS
6. PROVIDE FILLER PANELS TO SEAL SIDES AND TOPS OF ALL CABINETS PLACES AT AN ANGLE TO ADJACENT WALL
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS , AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACK BOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES ETC., NOTE: ONLY 2X WOOD BLOCKING ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITIONS
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK CONTRACTOR.



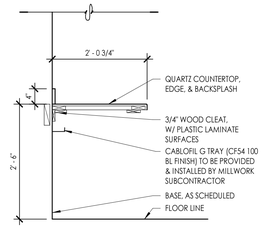
C1 CASEWORK SECTION
1" = 1'-0"



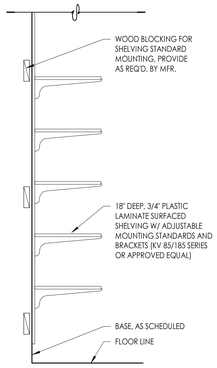
C3 CASEWORK SECTION
1" = 1'-0"



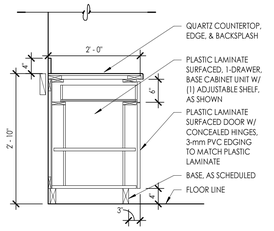
C4 CASEWORK SECTION
1" = 1'-0"



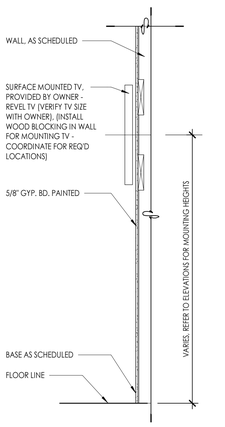
C5 CASEWORK SECTION
3/4" = 1'-0"



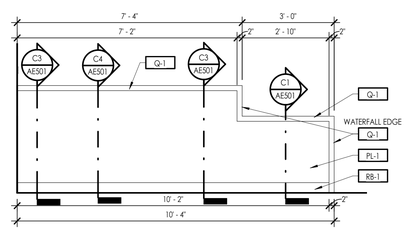
C6 CASEWORK SECTION
3/4" = 1'-0"



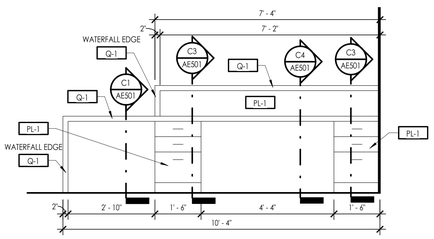
B5 CASEWORK SECTION
3/4" = 1'-0"



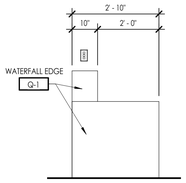
B6 SURFACE TV MOUNTING SECTION
3/4" = 1'-0"



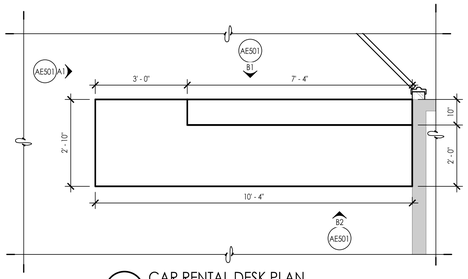
B1 CAR RENTAL DESK FRONT ELEVATION
1/2" = 1'-0"



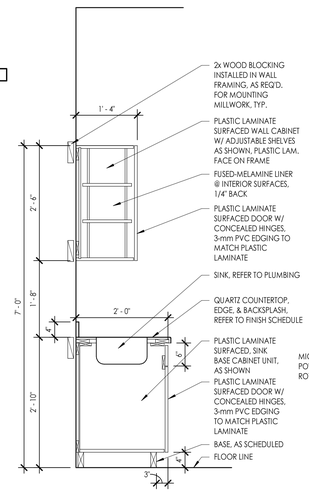
B2 CAR RENTAL DESK BACK ELEVATION
1/2" = 1'-0"



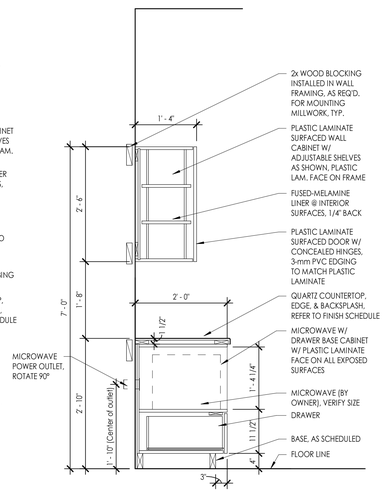
A1 CAR RENTAL DESK SIDE ELEVATION
1/2" = 1'-0"



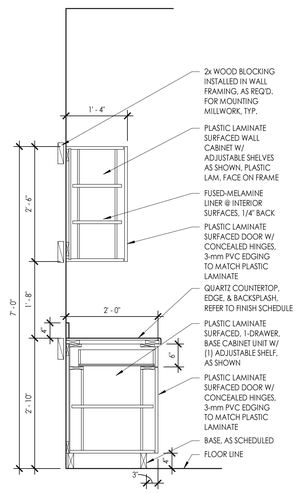
A2 CAR RENTAL DESK PLAN
1/2" = 1'-0"



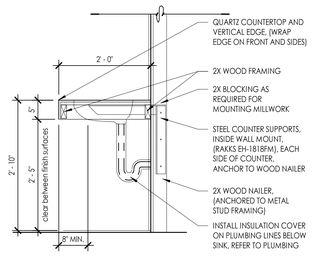
A3 CASEWORK SECTION
3/4" = 1'-0"



A4 CASEWORK SECTION
3/4" = 1'-0"



A5 CASEWORK SECTION
3/4" = 1'-0"



A6 CASEWORK SECTION
3/4" = 1'-0"

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OGDEN, UT 84405

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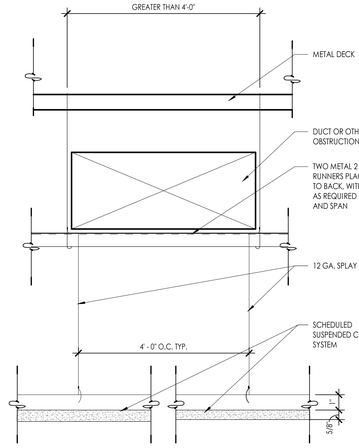
SAA Project No. 2021-10

Drawing Title

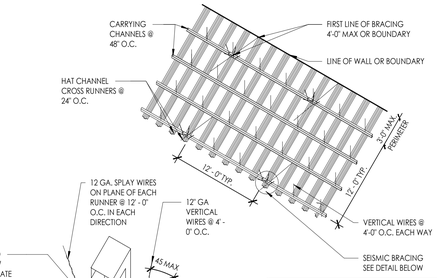
MILLWORK DETAILS

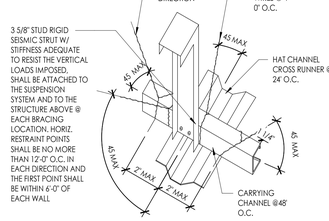
Sheet Number

AE501



C5 CEILING DETAIL
N.T.S.

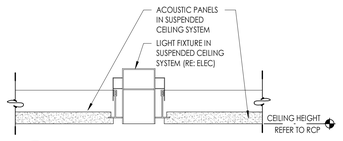




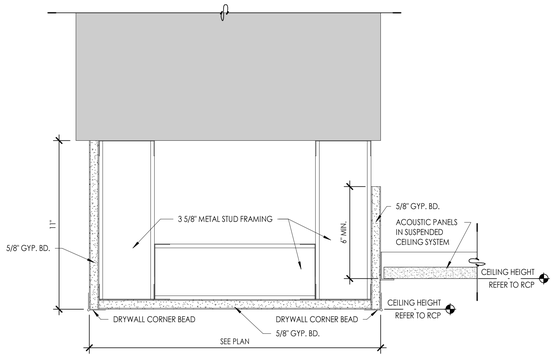
VERTICAL STRUTS MAY BE METAL STUDS, EMT, CONDUIT OR A PROPRIETARY COMPRESSION POST SEE TABLE 1	
TABLE 1: MAXIMUM RECOMMENDED LENGTHS FOR VERTICAL STRUTS	
EMT CONDUIT	
1/2" EMT CONDUIT	UP TO 6 FEET, 0 INCHES
3/4" EMT CONDUIT	UP TO 8 FEET, 6 INCHES
1" EMT CONDUIT	UP TO 10 FEET, 0 INCHES
1 METAL STUD	
1 5/8" METAL STUD (25-GAUGE)	UP TO 6 FEET, 2 INCHES
2 1/2" METAL STUD (25-GAUGE)	UP TO 10 FEET, 6 INCHES

NOTE: PLENUM AREAS GREATER THAN 11 FEET REQUIRE ENGINEERING CALCULATIONS.
*SOURCE: TECHNICAL SERVICES & INFORMATION BUREAU

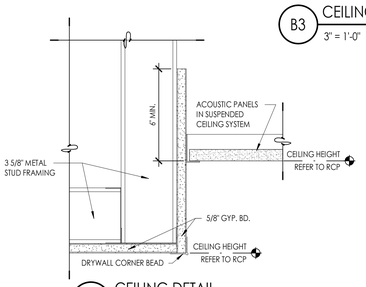
C6 SUSPENDED GYP. BRACING DETAIL
N.T.S.



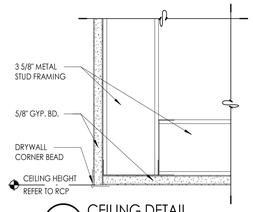
B3 CEILING DETAIL
3" = 1'-0"



A2 CEILING DETAIL
3" = 1'-0"



A3 CEILING DETAIL
3" = 1'-0"



A4 CEILING DETAIL
3" = 1'-0"

SPLAY WIRE BRACING SHALL BE CLUSTERS OF FOUR 12 GAUGE WIRES ATTACHED TO THE MAIN BEAM WITHIN 2" OF THE CROSS TEE INTERSECTION. WIRES ARE ARRAYED 90 DEGREES FROM EACH OTHER AT ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. ATTACHMENT OF THE BRACING WIRES TO THE MAIN BEAM AND TO THE STRUCTURE SHALL BE CAPABLE OF SUPPORTING THE GREATER OF 200 LBS. OR THE ACTUAL DESIGN LOAD W/ A SAFETY FACTOR OF 2

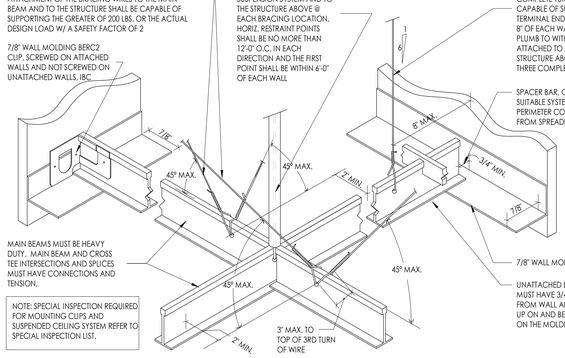
7/8" WALL MOLDING BERC2 CLIP, SCREWED ON ATTACHED WALLS AND NOT SCREWED ON UNATTACHED WALLS, IBC

MAIN BEAMS MUST BE HEAVY DUTY. MAIN BEAM AND CROSS TEE INTERSECTIONS AND SPLICES MUST HAVE CONNECTIONS AND TENSION.

NOTE: SPECIAL INSPECTION REQUIRED FOR MOUNTING CLIPS AND SUSPENDED CEILING SYSTEM REFER TO SPECIAL INSPECTION LIST.

RIGID SEISMIC STRUT W/ STIFFNESS ADEQUATE TO RESIST THE VERTICAL LOADS IMPOSED, SHALL BE ATTACHED TO THE SUSPENSION SYSTEM AND TO THE STRUCTURE ABOVE @ EACH BRACING LOCATION. HORIZ. RESTRAINT POINTS SHALL BE NO MORE THAN 12'-0" O.C. IN EACH DIRECTION AND THE FIRST POINT SHALL BE WITHIN 6'-0" OF EACH WALL

12 GAUGE HANGER WIRES @ 4'-0" O.C. OR 10 GAUGE HANGER WIRES @ 5'-0" O.C. ATTACHMENT AT MAIN BEAM AND AT STRUCTURE SHALL BE SECURED WITH A MIN. OF THREE COMPLETE TURNS AND MUST BE CAPABLE OF SUPPORTING 100 LBS. TERMINAL ENDS SUPPORTED WITHIN 8" OF EACH WALL W/ 12 GA. WIRE. PLUMB TO WITHIN ONE SIX. ATTACHED TO ADJACENT WALL OF STRUCTURE ABOVE W/ A MIN. OF THREE COMPLETE TURNS.



A6 SUSPENDED CEILING SEISMIC BRACING DETAIL
N.T.S.

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CEILING DETAILS

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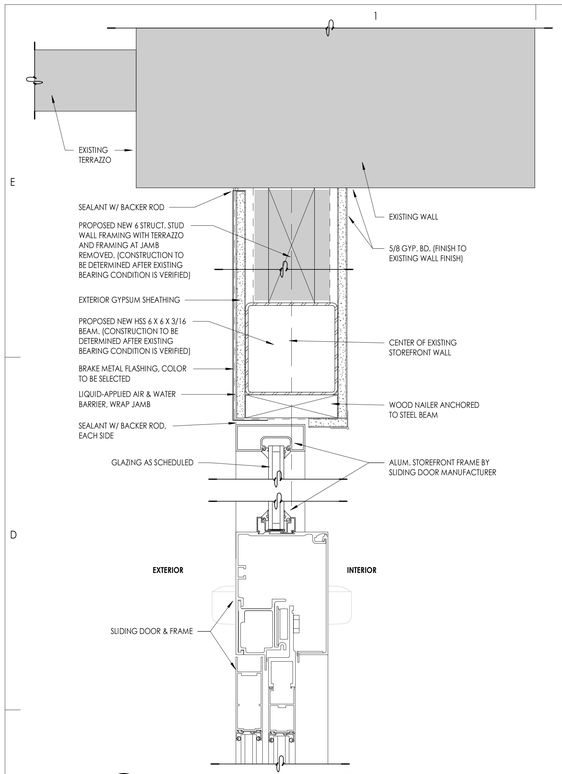
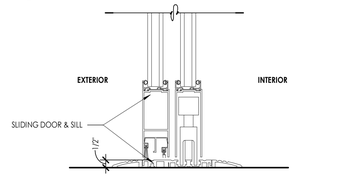
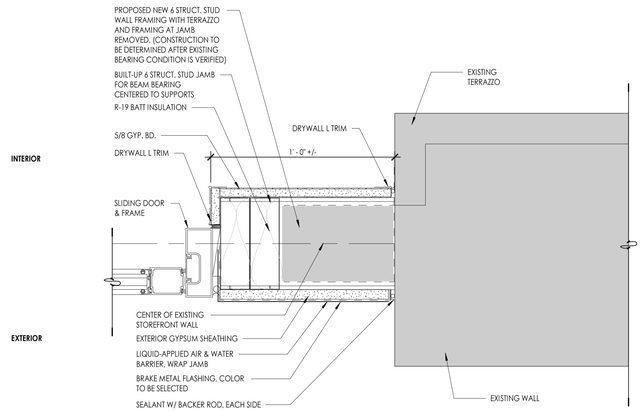
AE541



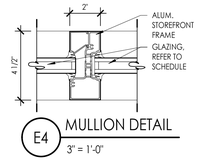
D1 AUTO-SLIDING DOOR HEAD DETAIL
3" = 1'-0"



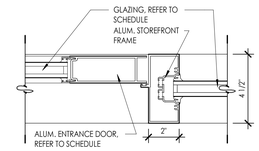
C1 AUTO-SLIDING DOOR THRESHOLD DETAIL
3" = 1'-0"



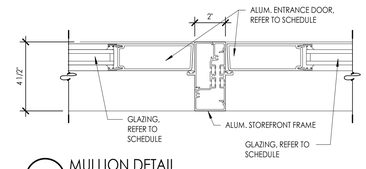
D3 JAMB DETAIL
3" = 1'-0"



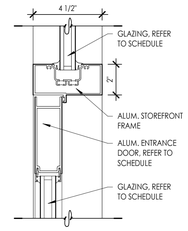
E4 MULLION DETAIL
3" = 1'-0"



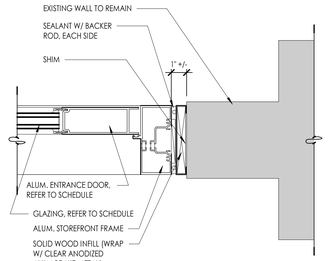
E5 JAMB DETAIL
3" = 1'-0"



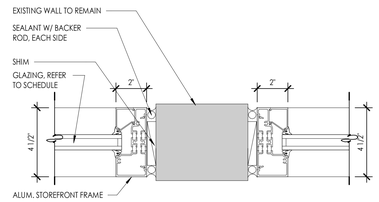
E6 MULLION DETAIL
3" = 1'-0"



D6 HEAD DETAIL
3" = 1'-0"



C3 JAMB DETAIL (HEAD SIM.)
3" = 1'-0"



C4 JAMB DETAIL (HEAD SIM.)
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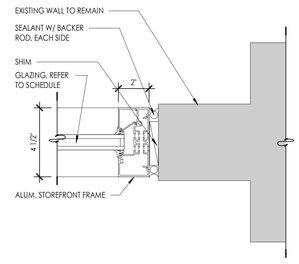
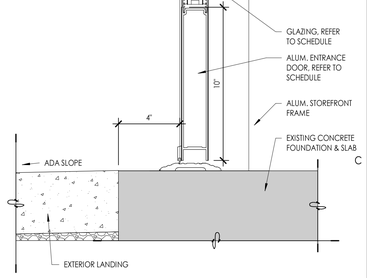
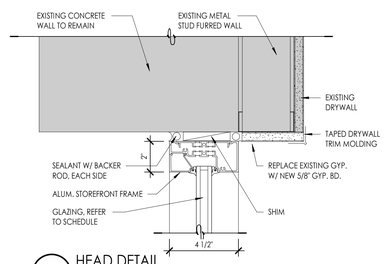


C5 JAMB DETAIL (HEAD SIM.)
3" = 1'-0"



C6 SILL DETAIL
3" = 1'-0"



B1 HEAD DETAIL
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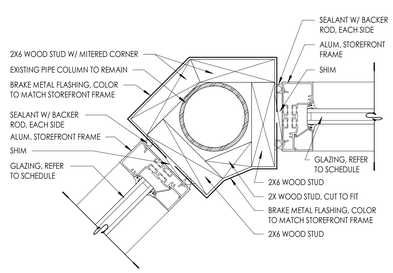

B2 JAMB DETAIL
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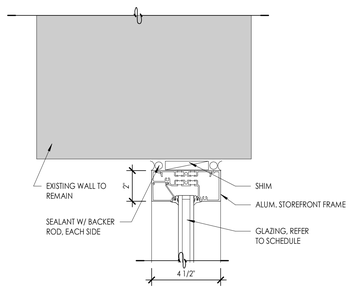

B3 HEAD DETAIL
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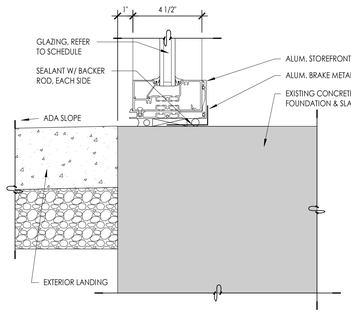
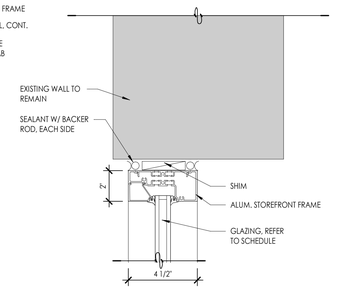
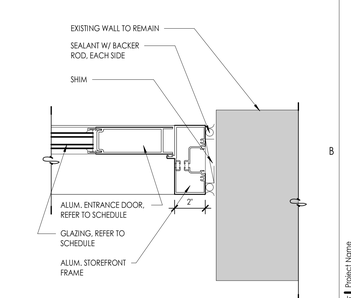


B4 SILL DETAIL
3" = 1'-0"



B5 HEAD DETAIL
3" = 1'-0"



B6 JAMB DETAIL
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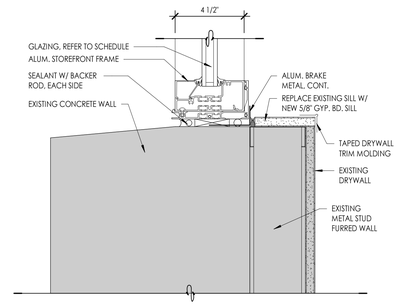

A1 SILL DETAIL
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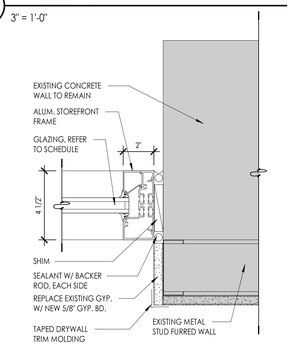

A2 JAMB DETAIL
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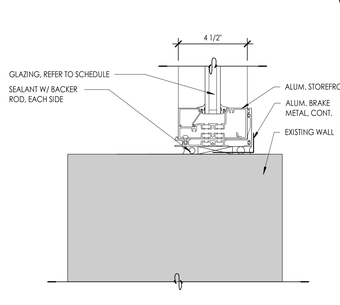

A3 SILL DETAIL
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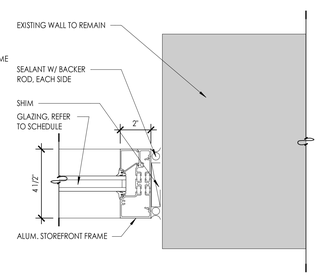

A4 JAMB DETAIL
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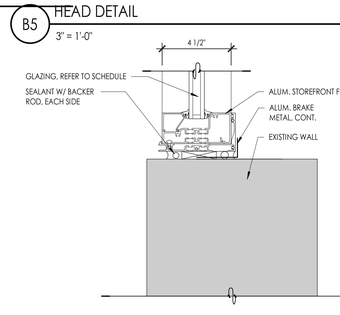
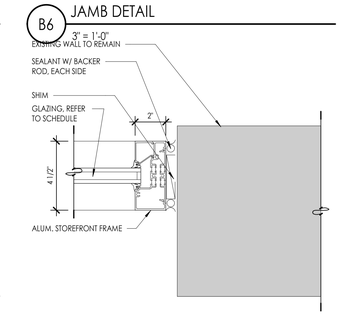


A5 SILL DETAIL
3" = 1'-0"



A6 JAMB DETAIL
3" = 1'-0"

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Drawing Title
OPENING DETAILS

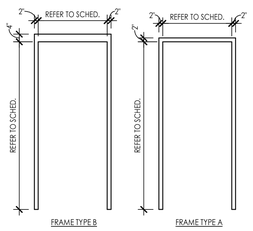
Sheet Number
AE581

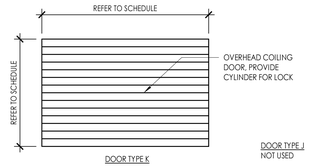
DOOR SCHEDULE - EXISTING DOORS

DOOR REVISION	DOOR #	ROOM NAME	DOOR						FRAME							HRDWR. GROUP	FIRE RATING	COMMENTS	DOOR #
			DOOR TYPE	SIZE WIDTH	SIZE HEIGHT	SIZE THICK	MTRL	FINISH	GLAZE	FRAME TYPE	MTRL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	ELECTRIC DEVICE			
LEVEL 1																			
	E-116A	BAGGAGE SCREENING	A	3' - 0"	7' - 0"	1 3/4"	EXIST. HM	PNT-3	-	EXIST.	EXIST. HM	PNT-3	EXIST.	EXIST.	EXIST.		EXIST.	-		E-116A
	E-129A-A	ROOF ACCESS	A	2' - 8"	6' - 8"	1 3/4"	EXIST. HM	PNT-3	-	EXIST.	EXIST. HM	PNT-3	EXIST.	EXIST.	EXIST.		200	-	EXIST. DOOR TO ROOF - PROVIDE CYLINDER	E-129A-A

EXISTING BUILDING MEANS OF EGRESS AND ACCESSIBILITY DOOR REVIEW:

- A REVIEW OF THE EXISTING DOORS, THAT ARE TO REMAIN, IS REQUIRED BY THE GENERAL CONTRACTOR AND THE DOOR HARDWARE SUBCONTRACTOR FOR MEANS OF EGRESS DOOR NON-COMPLIANCE TO THE 2018 IBC SECTION 1010, "DOORS, GATES AND TURNSTILES."
- A REVIEW OF THE EXISTING DOORS, THAT ARE TO REMAIN, IS REQUIRED BY THE GENERAL CONTRACTOR AND THE DOOR HARDWARE SUBCONTRACTOR FOR ACCESSIBILITY NON-COMPLIANCE TO THE ICC A117.1-2009, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES."

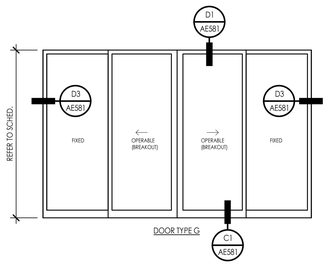




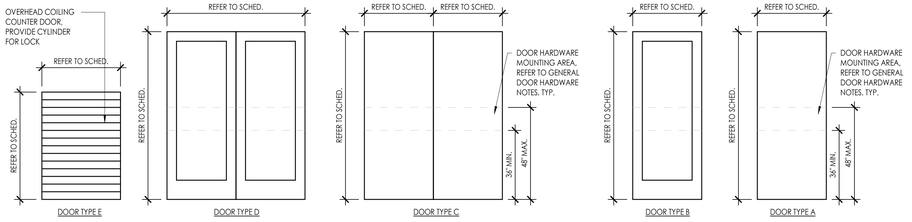
DOOR TYPE K

DOOR TYPE J
NOT USED

DOOR TYPE H
NOT USED



DOOR TYPE G



DOOR TYPE F
NOT USED

DOOR TYPE E

DOOR TYPE D

DOOR TYPE C

DOOR TYPE B

DOOR TYPE A

DOOR SCHEDULE - NEW DOORS

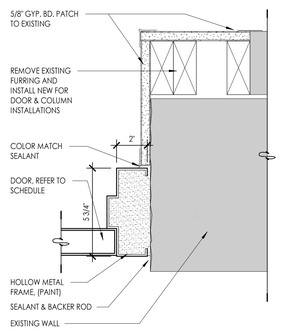
DOOR REVISION	DOOR #	ROOM NAME	DOOR							FRAME							HRDWR. GROUP	FIRE RATING	COMMENTS	DOOR #
			DOOR TYPE	SIZE WIDTH	SIZE HEIGHT	SIZE THICK	MTRL	FINISH	GLAZE	FRAME TYPE	MTRL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	ELECTRIC DEVICE				
BASEMENT																				
	B104A	EXISTING IT	A	3' - 0"	7' - 0"	1 3/4"	WD	PNT-7	-	A	HM	PNT-3	A1/AE601	A/AE601	-	CARD READER, REX	310	-		B104A
LEVEL 1																				
	101A	EXISTING FIRE TRUCK BAY	C	3' - 0"	7' - 0"	1 3/4"	HM	PNT-3	-	A	HM	PNT-3	A/AE601	A/AE601	B3/AE601	CARD READER EACH SIDE	315	60 MIN.	DOUBLE DOOR	101A
	108A	EXIST. TSA INSPECTION	A	3' - 0"	7' - 0"	1 3/4"	HM	PNT-3	-	A	HM	PNT-3	A/AE601	A/AE601	-	CARD READER EACH SIDE	316	3 HR.		108A
	110A	COMM. ROOM	A	3' - 0"	7' - 0"	1 3/4"	HM	PNT-3	-	A	HM	PNT-3	B4/AE601	B4/AE601	-	CARD READER	313	-		110A
	114A	CONCOURSE	B	3' - 0"	7' - 0"	2 1/4"	ALUM.	CLEAR	GL-2	W7	ALUM.	CLEAR	D6/AE581	B6/AE581	C6/AE581	CARD READER EACH SIDE	A2	-	DOUBLE DOOR	114A
	115A	EXIST. TSA SUPERVISOR	A	3' - 0"	7' - 0"	1 3/4"	WD	CLEAR	-	A	HM	PNT-3	A/AE601	A/AE601	-	TSA CARD READER	308T	-	PROVIDE TSA CYLINDER	115A
	116B	BAGGAGE SCREENING	A	3' - 0"	7' - 0"	1 3/4"	WD	CLEAR	-	A	HM	PNT-3	A4/AE601	A4/AE601	-	CARD READER EACH SIDE	314	-	-------	116B
	116C	BAGGAGE SCREENING	K	8' - 0"	8' - 0"	2"	STEEL INSUL.	T.B.D.	-	MANUF.	STEEL	T.B.D.	A5/AE601	A3/AE601	-	CARD READER EACH SIDE	501A	-	PROVIDE CYLINDER	116C
	116D	BAGGAGE SCREENING	E	3' - 0"	4' - 0"	2"	S.S.	SATIN	-	MANUF.	S.S.	SATIN	A2/AE601 SIM.	A2/AE601	-		503	-	PROVIDE CYLINDER	116D
	117A	TSA BREAK ROOM	A	3' - 0"	7' - 0"	1 3/4"	WD	CLEAR	-	A	HM	PNT-3	A1/AE601	B1/AE601	-	TSA CARD READER	307T	-	PROVIDE TSA CYLINDER	117A
	119A	EXIST. WOMEN	A	3' - 0"	7' - 0"	1 3/4"	WD	CLEAR	-	A	HM	PNT-3	B4/AE601	B4/AE601	-		409	-		119A
	120A	EXIST. MEN	A	3' - 0"	7' - 0"	1 3/4"	WD	CLEAR	-	A	HM	PNT-3	B4/AE601	B4/AE601	-		409	-		120A
	121A	EXIST. LOBBY	D	6' - 2"	7' - 0"	1 3/4"	ALUM.	CLEAR	GL-2	B	ALUM.	CLEAR	D6/AE581	C3/AE581	C6/AE581	CARD READER ON BOTH SIDES OF ONE LEAF, TIME CLOCK	A9	-	DOUBLE DOOR	121A
	124A	DINING ROOM	B	3' - 4"	7' - 1"	1 3/4"	ALUM.	CLEAR	GL-2	EXIST.	EXIST. ALUM.	EXIST.	EXIST.	EXIST.	EXIST.	CHEKIT DEVICE	A5	-		124A
	126A	KITCHEN STORAGE	A	3' - 0"	7' - 0"	1 3/4"	HM	PNT-3	-	A	HM	PNT-3	A4/AE601	A4/AE601	B3/AE601	CARD READER EACH SIDE, CHEKIT DEVICE	101	-		126A
	129A	EXIST. STAIRS	A	3' - 0"	7' - 0"	1 3/4"	WD	CLEAR	-	A	HM	PNT-3	B4/AE601	B4/AE601	-	CARD READER, REX	312	60 MIN.		129A
	129A-A	EXIST. ROOF ACCESS	A	3' - 0"	7' - 0"	1 3/4"	HM	PNT-3	-	A	HM	PNT-3	A/AE601	A/AE601	B3/AE601	CARD READER, REX	105	-		129A-A
	133A-A	IT	A	3' - 0"	7' - 0"	1 3/4"	WD	CLEAR	-	A	HM	PNT-3	B4/AE601	B4/AE601	-		404	-		133A-A
	134A	EXIST. ENTRY	G	13' - 8 1/2"	7' - 0"	1 3/4"	ALUM.	CLEAR	GL-2	W9	ALUM.	CLEAR	D1/AE581	D3/AE581	C1/AE581		500T	-	PROVIDE CYLINDER	134A

GENERAL DOOR HARDWARE NOTES

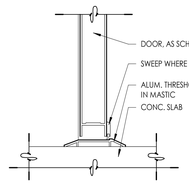
1. ALL LOCKS, DOOR HANDLES, PULLS, LATCHES, OR OTHER OPERATING HARDWARE IS REQUIRED TO BE LOCATED BETWEEN 36 AND 48 INCHES A.F.F. PER IBC 1010.1.9.2.
2. HARDWARE SHALL NOT REQUIRE PINCHING, TIGHT GRASPING, OR TWISTING OF THE WRIST TO OPERATE PER IBC 1010.1.9.1.

PANEL SCHEDULE

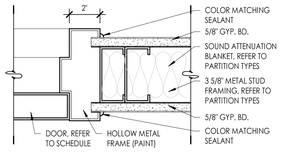
MARK	GLASS TYPE	COMMENTS
GL-1	1" INSUL - LOW E	SEE SPECIFICATIONS
GL-2	1" INSUL - LOW E - TEMPERED	SEE SPECIFICATIONS



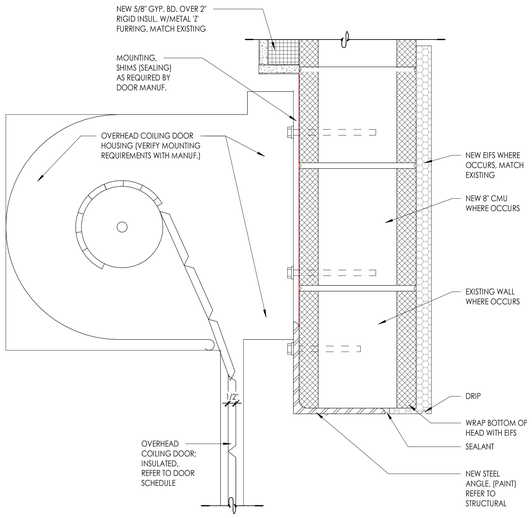
B1 JAMB DETAIL
3" = 1'-0"



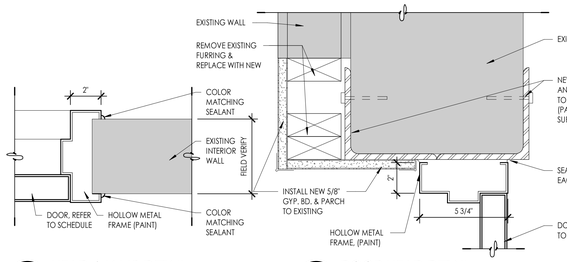
B3 SILL DETAIL
3" = 1'-0"



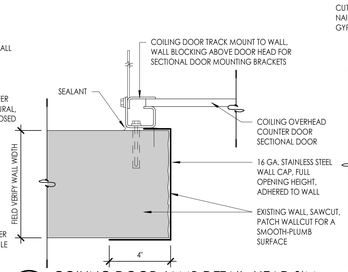
B4 HEAD / JAMB DETAIL
3" = 1'-0"



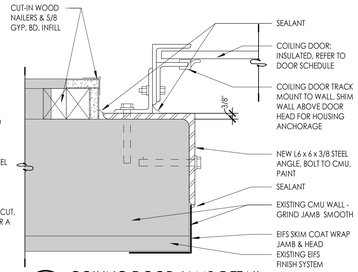
A5 COILING DOOR HEAD DETAIL
3" = 1'-0"



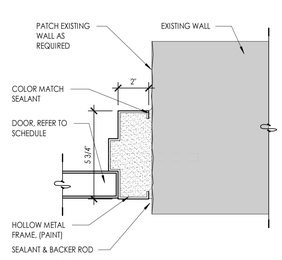
A HEAD / JAMB DETAIL
3" = 1'-0"



A2 COILING DOOR JAMB DETAIL, HEAD SIM.
3" = 1'-0"



A3 COILING DOOR JAMB DETAIL
3" = 1'-0"



A4 HEAD / JAMB DETAIL
3" = 1'-0"

A1 DOOR HEAD DETAIL
3" = 1'-0"

SAA
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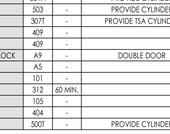
Seal



Consultant

Project Name
OGDEN-HINCKLEY AIRPORT
TERMINAL REMODEL
3909 AIRPORT ROAD
OGDEN, UT 84405

Issued

No.	Date	Description
1	11.14.23	BID DOCUMENTS

Revision

No.	Date	Description

SAA Project No. 2021-10

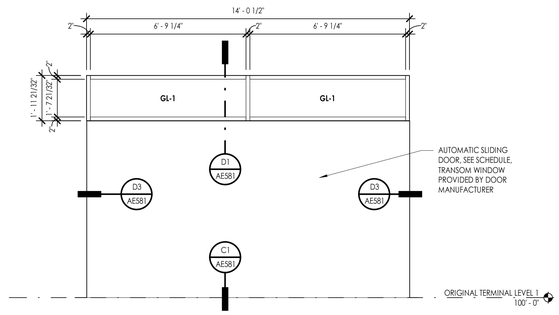
Drawing Title

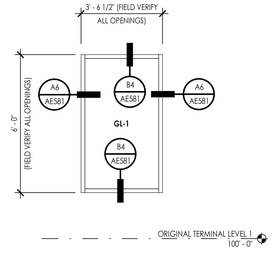
DOOR SCHEDULE

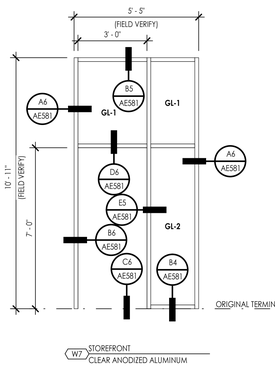
Sheet Number

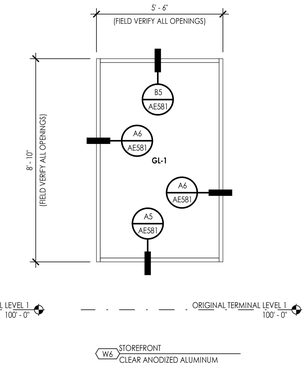
AE601

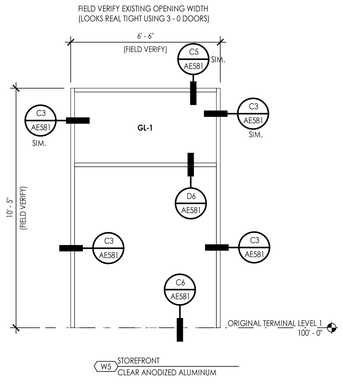
PANEL SCHEDULE		
MARK	GLASS TYPE	COMMENTS
GL-1	1" INSUL - LOW E	SEE SPECIFICATIONS
GL-2	1" INSUL - LOW E - TEMPERED	SEE SPECIFICATIONS

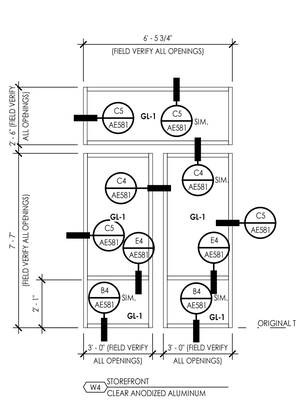


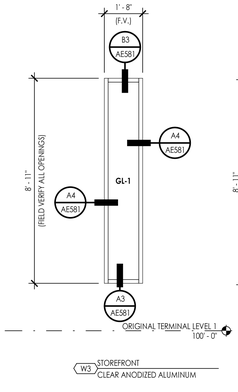


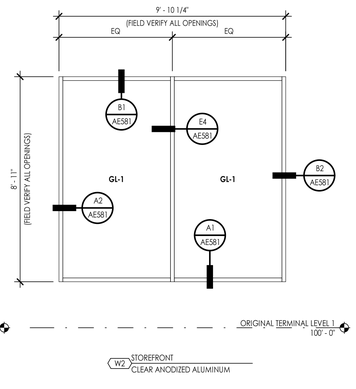


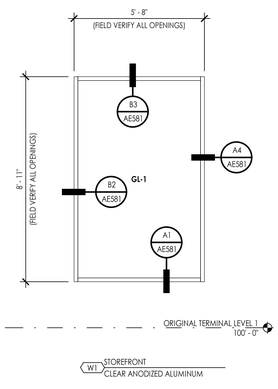












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STATE OF UTAH
M. SHANE SANDERS
No. 5926553
11.15.23
LICENSED ARCHITECT

Consultant

Project Name

OGDEN-HINCKLEY AIRPORT

TERMINAL REMODEL

3909 AIRPORT ROAD
OGDEN, UT 84405

Issued

No.	Date	Description
1	11.14.23	BID DOCUMENTS

Revision

No.	Date	Description

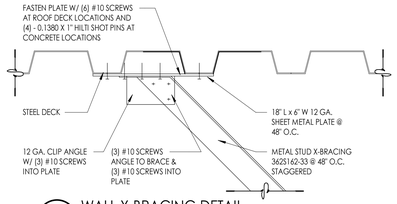
SAA Project No. 2021-10

Drawing Title

FRAME TYPES

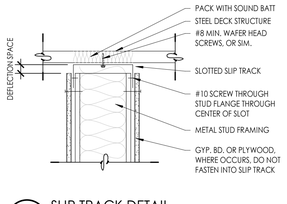
Sheet Number

AE622



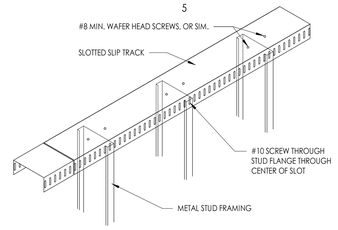
D3 WALL X-BRACING DETAIL

3" = 1'-0"



D4 SLIP TRACK DETAIL

1 1/2" = 1'-0"



C4 SLIP TRACK ISOMETRIC DETAIL

3/4" = 1'-0"

NON-BEARING METAL STUD GAUGE

MEMBER DEPTH	STUD HEIGHT	MIN. GA. & SPACING
2-1/2" (250S125-33)	14'-0"	20@16" O.C. (Composite)
3-5/8" (362S125-33)	17'-0"	20@16" O.C. (Composite)
3-5/8" (362S125-43)	17'-0"	18@16" O.C. (Fully Braced)
6" (600S162-33)	15'-0"	20@16" O.C. w/ Bridging Mid Span
6" (600S162-33)	18'-0"	20@16" O.C. w/ Bridging 5' O.C.
6" (600S162-43)	23'-0"	18@16" O.C. w/ Bridging 5' O.C.
6" (600S162-54-50KSI)	30'-0"	16@16" O.C. w/ Bridging 5' O.C.

1. STEEL STUDS SHALL MEET ICC REPORT ESR-3064P AND SSMA STANDARDS HEIGHT BASED ON SSMA 2015 CATALOG AND PROJECT REQUIREMENTS
2. SEE SCHEDULE FOR STUD SPACING AND GAUGE. ALL STUDS AND BRACES SHALL BE 33 KSI UNLESS NOTED OTHERWISE IN THESE DRAWINGS
3. AT ALL DOORS PROVIDE TWO TABBED 18 GAUGE STUDS AT BOTH SIDES

NON-BEARING HEADER SCHEDULE (16'-0" AFF)

MAX. SPAN	HEADER STUDS	3 5/8" TRACKS	6" TRACKS	6" WALL TUBE STEEL OPTION
7'-0"	(2) 362S162-33	(2) 362T150-33	(2) 600T150-33	HSS 6 x 6 x 1/8
10'-0"	(2) 600S162-33	(2) 362T150-43	(2) 600T150-33	HSS 6 x 6 x 1/8
11'-0"	(2) 600S162-43	(2) 362T150-43	(2) 600T150-33	HSS 6 x 6 x 1/8
14'-0"	(2) 800S162-54	(2) 362T150-97	(2) 600T150-43	HSS 6 x 6 x 1/8
16'-0"	(2) 1000S162-54	(2) 362T150-97	(2) 600T150-54	HSS 6 x 6 x 1/8
19'-0"	(2) 1000S250-68	-	(2) 600T150-68	HSS 8 x 6 x 3/16
21'-0"	-	-	-	HSS 10 x 6 x 3/16
25'-0"	-	-	-	HSS 12 x 6 x 3/16
27'-0"	-	-	-	HSS 12 x 6 x 1/4

1. SCHEDULE TO BE USED FOR NON-BEARING WALLS, (16'-0" +/- AFF)
2. HEADERS TO BE CONSTRUCTED AS BOX HEADERS PER SSMA

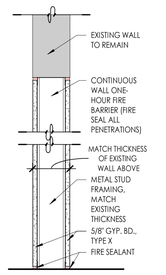
NON-BEARING HEADER SCHEDULE (30'-0" AFF)

MAX. SPAN	HEADER STUDS	3 5/8" TRACKS	6" TRACKS	3 5/8" WALL TUBE STEEL OPTION	6" WALL TUBE STEEL OPTION
4'-0"	(2) 362S162-33	362T150-33	600T150-33	HSS 3.5x3.5x1/8	HSS 6x6x1/8
7'-0"	(2) 600S162-33	362T150-33	600T150-33	HSS 3.5x3.5x1/8	HSS 6x6x1/8
9'-0"	(2) 600S162-43	362T150-54	600T150-33	HSS 3.5x3.5x1/4	HSS 6x6x1/8
10'-0"	(2) 800S162-54	362T150-54	600T150-43	HSS 5.5x3.5x3/8	HSS 6x6x1/8
12'-0"	(2) 1000S162-54	362T150-97	600T150-54	HSS 5x3x5/16	HSS 6x6x1/8
15'-0"	(2) 1000S250-68	-	600T150-68	HSS 7x6x5/16	HSS 8x6x3/16
17'-0"	-	-	-	HSS 8x3x3/8	HSS 10x6x3/16
19'-0"	-	-	-	HSS 10x3.5x5/16	HSS 12x6x3/16
21'-0"	-	-	-	HSS 10x3.5x1/2	HSS 12x6x1/4
25'-0"	-	-	-	-	HSS 14x6x1/4
27'-0"	-	-	-	-	HSS 14x6x3/8

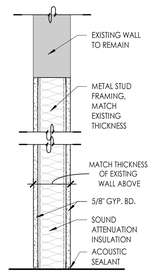
1. SCHEDULE TO BE USED FOR NON-BEARING WALLS, (30'-0" +/- AFF)
2. HEADERS TO BE CONSTRUCTED AS BOX HEADERS PER SSMA

PARTITION NOTES

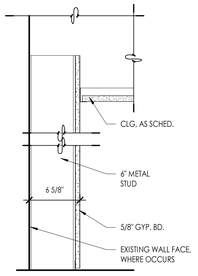
1. PARTITION TYPE INDICATIONS ARE INDEPENDENT OF APPLIED FINISHES. SEE THE FINISH SHEET AND INTERIOR ELEVATIONS FOR WALL FINISHES AND ON PLANS FOR ADDITIONAL FOR INFORMATION REGARDING APPLIED FINISHES
2. WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL, THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING WALL
3. AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE, UNLESS NOTED OTHERWISE.
4. WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES , NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZING PARTITIONS, ETC. CONSTRUCTION ABOVE INTERRUPTION IS TO BE THE SAME AS THAT DESIGNATION FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED
6. THE MINIMUM REQUIREMENTS FOR THE CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT, HOWEVER ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:**A.** USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE. **B.** USE 16" O.C. MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATING BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MAX SPACING ALLOWED IN THESE DOCUMENTS. **C.** USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAUGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAUGE TESTED, 20 GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS
7. USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCE APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY, AND STUD WALLS.
8. PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS.
9. ALL DIMENSIONS ARE FACE OF STUD OR FACE OF CONCRETE, MASONRY, OR ROUGH OPENING UNLESS OTHERWISE NOTED
10. ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET, THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE
11. PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTER OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. **CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING.** INSTALL PER DETAILS FOR CONTROL JOINTS.
12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC... GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE CAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR THE DUCTS OR LARGER PENETRATIONS SHALL BE FRAMES WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM THE FRAMING
13. CONTRACTOR TO PROVIDE BLOCKING/BACKING FOR ALL WALL MOUNTED EQUIPMENT, SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS, ETC... INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED.
14. **WHERE THERE IS LIMITED WATER EXPOSURE:** INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C 1396 (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION AT THE FOLLOWING. **A.** WITH IN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SHEETS. **B.** AT OTHER LOCATIONS I.E. TOILET ROOMS AND KITCHEN, AND AS INDICATED ON THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
15. INSTALL ONE LAYER OF 5/8" GYPSUM GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS PARTITIONS AT THE FOLLOWING LOCATIONS. **A.** AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS. **B.** WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND /OR INTERIOR ELEVATIONS. **C.** AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.



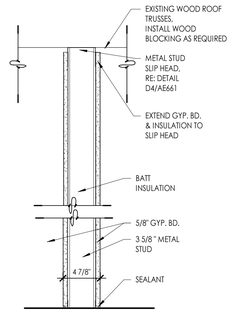
66 STEEL STUD - INFILL ONE HOUR FIRE RATED UL-U423



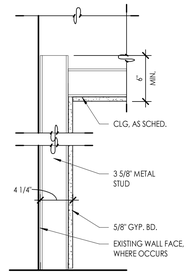
54 STEEL STUD - INFILL



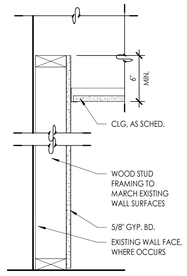
41 6" STEEL STUD - FURRING



16 3 5/8" STEEL STUD



12 3 5/8" STEEL STUD - FURRING



11 WOOD STUD - FURRING

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Seal

Consultant

Project Name

OGDEN-HINCKLEY AIRPORT

TERMINAL REMODEL

3909 AIRPORT ROAD
OGDEN, UT 84405

Issued

No.	Date	Description
1	11.14.23	BID DOCUMENTS

Revision

No.	Date	Description

SAA Project No. 2021-10

Drawing Title

PARTITION TYPES

Sheet Number

AE661

STRUCTURAL GENERAL NOTES

A. GENERAL

1. The contractor shall verify all dimensions prior to starting construction. The architect shall be notified of any discrepancies or inconsistencies.
2. Dimensions shall take precedence over scale shown on drawings.
3. Notes and details on drawings shall take precedence over general notes and typical notes.
4. All work shall conform to the minimum standards of the following code: The 2018 edition of the International Building Code, International Existing Building Code, and any other regulating agencies which have authority over any portion of the work, and those codes and standards listed in these notes and specifications.
5. See architectural drawings for the following:
   - Size and location of all door and window openings, except as noted.
   - Size and location of all interior and exterior nonbearing partitions.
   - Size and location of all concrete curbs, floor drains, slopes, depressed areas, changes in level, chamfers, grooves, inserts, etc.
   - Size and location of floor and roof openings except as shown
   - Floor and roof finishes
   - Stair framing and details (except as shown)
6. See mechanical, plumbing, and electrical drawings for the following:
   - Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc. Except as shown or noted.
   - Electrical conduit runs, boxes, outlets in walls and slabs.
   - Concrete inserts for electrical, mechanical or plumbing fixtures.
   - Size and location of machine or equipment bases, anchor bolts for mounts.
7. The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measure shall include, but not be limited to, bracing, shoring for loads due to construction equipment, etc. Observation visits to the site by the structural engineer shall not include inspection of the above structural members.
8. Openings, pockets, etc. larger than 6 inches shall not be placed in slabs, decks, beams, joists, columns, walls, etc. unless specifically detailed on the structural drawings. Notify the structural engineer when drawings by others show openings, pockets, etc. not shown on the structural drawings, but which are located on structural members.
9. ASTM specifications noted shall be the latest revision.
10. Contractor shall investigate site during clearing and earthwork operations for filled excavations or buried structures such as cesspools, cisterns, foundations, etc. If any such structures are found, the structural engineer shall be notified immediately.
11. Construction materials shall be spread out if placed on floors or roof. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where structure has not attained design strength.
12. Design Loads:
    - Roof:
      - DEAD: 55 psf
      - LIVE: 20 psf
      - SNOW: 33 psf (Pg = 43 psf) I_s = 1.10
    - Floor:
      - DEAD: 60 psf
      - LIVE: 20 psf
    - Wind:
      - Velocity: V-ult = 120 mph
      - Exposure "C"
      - Internal Coefficient: 0.18
      - Components and Cladding: 25.0 psf (ASD) in any direction
    - Seismic:
      - S_s = 1.324 S_1 = 0.472 Ie = 1.25
      - S_{DS} = 0.883 S_{D1} = 0.575 C_s = 0.276
      - Seismic Design Category "D"
      - Risk Category: "III"
      - Site Class: "D"
      - Base Shear: N/A
      - System: Existing Masonry Shear Walls
      - Method: Equivalent Static Force
    - Flood Loads: Not Applicable
    - Special Loads: Not Applicable

B. SHOP DRAWINGS

1. Shop drawings shall be submitted for all structural items in addition to items required by architectural specifications.
2. The contractor shall review all shop drawings prior to submittal. Items not in accordance with contract drawings shall be flagged for review.
3. Verify all dimensions with architect.
4. Any changes, substitutions, or deviations from original contract drawings shall be redlined or flagged by submitting parties, shall be considered approved after engineers review, unless noted otherwise.
5. The engineer has the right to approve or disapprove any changes to the original drawings at anytime before or after shop drawings review.
6. The shop drawings do not replace the original contract drawings. Items omitted or shown incorrectly and are not flagged by the structural engineer or architect are not to be considered changes to the original contract drawings.
7. The adequacy of engineering designs and layout performed by the others rests with the designing or submitting authority.
8. Reviewing is intended only as an aid to the contractor in obtaining correct shop drawings. Responsibility for corrections shall rest with the contractor.

C. FOUNDATION

1. Footings are designed based on presumptive bearing capacity of 2000 psf, per IBC Table 1806.2. Vector Structural Engineers strongly recommends independent soils testing be performed by a licensed Geotechnical Engineer to verify soil bearing capacity, slope stability, and any other related soil parameters, as required.
2. Contractor shall provide for proper de-watering of excavations from surface water, ground water, seepage, etc.
3. Footings shall be placed according to depths shown on the drawings.
4. Footing back fill and utility trench back fill within building area shall be mechanically compacted in layers. Flooding will not be permitted.
5. All abandoned footings, utilities, etc. that interfere with new construction shall be removed.
6. The soil under perimeter beams and slabs shall be above optimum moisture prior to concrete placement.
7. Sill plate anchorage shall be as shown on the Foundation Plan and Sill Anchorage Schedule, Detail 1/S002.
8. Holdown anchors shall meet the requirements of Detail 2/S002.

NOTICE:

CONDITIONS SHOWN IN THESE DRAWINGS DEPICTING THE EXISTING STRUCTURE MUST BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER-OF-RECORD FOR POTENTIAL CHANGES PRIOR TO CONSTRUCTION. ENGINEERING ASSUMPTIONS, SUCH AS ROOF TRUSS AND FLOOR JOIST LAYOUT, MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REMOVING ANY EXISTING ELEMENTS.

PLEASE NOTE THAT ELEMENTS OF THE EXISTING STRUCTURE WHOSE DESIGN LOAD WAS NOT SIGNIFICANTLY AFFECTED BY THIS REMODEL WERE EXCLUDED FROM THE ANALYSIS AND DESIGN. VECTOR STRUCTURAL ENGINEERS CLAIMS NO LIABILITY FOR SUCH ELEMENTS. A SEISMIC UPGRADE OF THE EXISTING STRUCTURE WAS NOT REQUIRED AND, THEREFORE, NOT PERFORMED AS PART OF THIS REMODEL.

D. CONCRETE

1. All phases of work pertaining to the concrete construction shall conform to the "Building Code Requirements for Reinforced Concrete" (ACI 318-latest approved edition) with modifications as noted in the drawings and specifications.
2. Reinforced concrete design is by the "ultimate strength design method", ACI 318-(latest edition)
3. Schedule of structural concrete 28-day strengths and types:

Location in structure	Strength f'c, psi	Type	Exposure Categories
Slabs on Grade	3500	Hard rock	F0,S0,P0,C0
Footings & Walls	3500	Hard rock	F1,S0,P0,C1
Exterior Flatwork	4000	Hard rock	F1,S0,P0,C1

   Design based on 2500 psi 28-day strength.
4. Concrete mix design shall be submitted to the engineer for approval with the following requirements:
   a. Compressive strength at age 28 days as specified above.
   b. Large aggregate-hardrock, ¾" maximum size conforming to ASTM C-33
   c. Type I or II Portland Cement per ASTM C-150
   d. Maximum slump 5-inches, max water cement ratio: 0.50
   e. No admixtures, except for entrained air, and as approved by the engineer.
5. Concrete mixing operations, etc. shall conform to ASTM C-94
6. Placement of concrete shall conform to ACI standard 514 and project specifications.
7. Clear coverage of concrete over outer reinforcing bars shall be as follows:
   Concrete poured directly against earth: 3 inches clear
   Structural slabs: 3/4 inches clear (top and bottom)
   Formed concrete with earth back fill: 2 inches clear
8. All reinforcing bars, anchor bolts and other concrete inserts shall be well secured in position prior to placing concrete.
9. Provide sleeves for plumbing and electrical openings in concrete before placing. Do not cut any reinforcing that may conflict. Coring in concrete is not permitted except as shown. Notify the structural engineer in advance of conditions not shown on the drawings.
10. Conduit or pipe size (O.D.) shall not exceed 30% of slab thickness and shall be placed between the top and bottom reinforcing, unless specifically detailed otherwise. Concentrations of conduits or pipes shall be avoided except where detailed openings are provided.
11. Modulus of elasticity of concrete, when tested in accordance with ASTM C-460, shall be at least the value given by the equations in section 8.5.1 of ACI 318 for the specified 28-day strength.
12. Shrinkage of concrete, when tested in accordance with ASTM C-157, shall not exceed 0.00040 inches/inch.

E. REINFORCING STEEL

1. Reinforcing bars shall conform to the requirements of ASTM A-615 grade 60.
2. All reinforcing bar bends shall be made cold.
3. Minimum lap of welded wire fabric shall be 6 inches or one full mesh and one half, which ever is greater.
4. All bars shall be marked so their identification can be made when the final in-place inspection is made.
5. Rebar splices are to be Class "B". Lap length to be minimum 40 bar diameters, U.N.O. on drawings.
6. Reinforcing splices shall be made only where indicated on the drawings.
7. Dowels between footings and walls or columns shall be the same grade, size and spacing or number as the vertical reinforcing, respectively, U.N.O. on the drawings.

F. POST-INSTALLED ANCHORS

1. Special inspection, per the manufacturer's ICC-ES report, is required for all post-installed anchors.
2. Titen-HD anchors to be per Simpson Strong-tie (ICC-ESR 2713).
3. Epoxy to be SET-XP per Simpson Strong-tie (ICC-ESR 2508).
4. The following requirements must be met for installation of epoxied anchors:
   a) Concrete shall have a minimum age of 21 days.
   b) Concrete temperature at time of installation must be between 50 and 175 degrees F.
   c) Drilled holes must be clean and dry.
5. All post-installed anchors to be installed per manufacturer's specifications.

G. STRUCTURAL STEEL

1. Hot-rolled structural steel shapes & plates shall be per ASTM A36, except:
   All W-Flange shapes shall be per ASTM A992.
2. Structural steel pipe shall be per ASTM A53 grade B, Tube steel per ASTM A500 Grade B.
3. Nuts & bolts in structural steel connections shall be per ASTM 325N, with hardened washers. Design is based upon bearing type connections with thread not excluded, therefore, no special inspection required.
4. Anchor bolts and threaded rod shall be per ASTM F1554, Grade 36, U.N.O.
5. Welds shall be by E70XX, low hydrogen electrodes, all welding shall be performed in a shop approved by the building official.
6. Grout material for base plates shall be non-metallic, non-shrink, pre-packaged grout conforming to ASTM C 1107.
7. Steel shall be protected with rust-inhibitive paint, per AISC 360.
8. Certificate of compliance to be submitted to the building official prior to installation.

H. CONCRETE MASONRY UNITS (CMU)

1. Masonry units shall be grade N-II units, 2000 psi, conforming to the latest ASTM designation C-90. (Design F'm = 1500 psi.)
2. Portland cement shall conform to ASTM designation C-150 & be as specified for concrete.
3. Mortar mix shall conform to the requirements of I.B.C. table 2103.7, type S, & project specifications. Mortar shall attain a compressive strength of 2000 psi at 28 days.
4. Grout shall conform to the requirements of section 2103 of I.B.C. for coarse grout. Use sufficient water for grout to flow into all joints of the masonry without segretion. Grout shall attain a compressive strength of 2000 psi at 28 days.
5. Provide a minimum of 1/2" grout between main reinforcing & masonry units.
6. Low lift construction, maximum grout pour height is 5'-4".
7. Cells shall be in vertical alignment. Dowels in footings shall be set to align with cores containing reinforcing steel.
8. Refer to architectural drawings for surface & height of units, laying pattern & joint type.
9. Special inspection is required for all CMU walls per I.B.C. section 1704.

I. METAL DECKING

1. Steel decking shall be manufactured by Vulcraft, Verco or approved equivalent, in depths and gages shown on the Structural Drawings. Alternate decking design shall be approved by the Engineer-of-Record and shall provide equivalent vertical load and shear load capacity as original decking design.
2. The gage and attachment of the deck is designed to provide a diaphragm shear capacity in accordance with evaluation report ICC-ESR-1735P. Shear capacity using Hilti fasteners are in accordance with evaluation report ICC-ESR-2199. Other ICC - approved methods of attachment and gage will be acceptable as an equal if they meet the diaphragm shear capacity of the decking design shown on the Structural Drawings and are approved by the Engineer-of-Record
3. All steel decking finish shall be primed and painted. The rust inhibitive primer shall have a dry film thickness of 0.3 mil. nominal each side.

J. LIGHT GAGE STEEL FRAMING

1. All steel studs shall be painted and be the type, size, and gage shown on the plans.
2. 14 and 16 gage studs and joists shall be formed from mill certified "prime steel" conforming to ASTM A570 grade 50 steel. 18 and 20 gage studs and all painted track, bridging, end enclosures and accessories shall be formed from steel that comforms to the requirments of ASTM 611, grade C with a minimum yield strength of 33 ksi.
3. All studs, track and accessories shall be primed with rust-inhibitive paint meeting the performance requirements of TT-P-636C.
4. All framing components shall be cut squarely for attachment to perpendicular members, or as required for an angular fit against abutting members. Members shall be held positively in place until properly fastened.
5. Axially loaded studs shall be installed in a manner which will assure that ends of the studs are positioined against the inside track web, prior to stud and track attachment.
6. Tracks shall be securely anchored to the supporting strucure as shown on the plans.
7. Complete uniform and level bearing support shall be provided for the bottom track.
8. At track butt joints, abutting pieces of track shall be securely anchored to a common structural element, or they shall be butt welded or spliced together.
9. Studs shall be plumbed, aligned and securely attached to the flanges or webs of both upper an lower tracks.
10. Framed wall openings shall include headers and supporting studs as shown on the plans.
11. Temproary bracing shall be provided until erection is completed.
12. Wall stud bridging shall be installed in a manner to provide resistance to both minor axis bending and rotation. Bridging rows shall be equally spaced not to exceed 5'-0" o.c.
13. Splices in axially loaded studs shall not be permitted.
14. Connection hardware shall be ICC approved.

K. STATEMENT OF SPECIAL INSPECTIONS

1. Special inspections shall be required for the items shown in the table on below, in addition to the following:
   i) Epoxied Anchors and Rebar (Periodic special inspection)
   ii) Titen-HD Anchors (Periodic)
   a. The owners shall employ special inspectors who shall provide additional inspections during construction in accordance with IBC section 17.
   b. All special inspections shall be performed by an independent certified inspector from an established testing agency, licensed and approved by the building department.
   c. The testing agency shall send copies of all structural testing and inspection reports directly to Vector Structural Engineers and all interested parties.
2. Additional Special Inspections for wind resistance, per IBC 1705.10, are not required.
3. Additional Special Inspections for seismic resistance, per IBC 1705.11, are not required.
4. Structural testing and quallification for seismic resistance, per IBC 1705.12, shall be required as follows:
   a. Structural steel, in accordance with AISC 341.
5. Structural observations of the seismic-force-resisting system, per IBC 1704.5, are not required. However, the Engineer-of-Record reserves the right to visit the site on occasion.

SPECIAL INSPECTION SCHEDULE *(continued)*

Areas requiring special inspection:	Frequency: Continuous	Frequency: Periodic	Comments:
MASONRY CONSTRUCTION (IBC 1705.4)			
Minimum Testing *(Table 1.19.2, TMS-402/ACI 530-11):*			
Verification of Slump Flow and Visual Stability Index (VSI) for self-consolidating grout.		◆	Compressive strength tests per ASTM C 1019 for slump flow and ASTM C 1611 for VSI.
Verification of f'_m.		◆	Determine compressive strength per "unit strength" or "prism test" as specified in Article 1.4.B of ACI 530.1 prior to construction.
Prior to Construction *(Article 1.15, TMS-602/ACI 530.1-11):*			
Review material certificates, mix designs, test results and construction procedures		◆	Verify materials conform to approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted for review. Mortar mix designs shall conform to ASTM C 270 while grout shall conform to ASTM C 476. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Review cold-weather or hot-weather construction procedures.
As Construction Begins *(Table 1.19.2, TMS-402/ACI 530-11):*			
Proportions of site-preparec mortar		◆	Verify that mortar is type and color specified on approved plans, it conforms to ASTM C 270, and is mixed per Article 2.6.A of ACI 530.1.
Construction of mortar joints		◆	Verify mortar joints meet Article 3.3.B of ACI 530.1.
Location of reinforcement, connectors and anchorages.		◆	Verify reinforcement is placed in accordance with Article 3.4 of 530.1.
Prior to Grouting *(Table 1.19.2, TMS-402/ACI 530-11):*			
Grout space		◆	Verify grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2.D and 3.2.F of ACI 530.1.
Grade, type and size of reinforcement, anchor bolts and anchorages.		◆	Verify reinforcement, joint reinforcement, anchor bolts and veneer anchors comply with approved plans and Section 1.6 of ACI 530.
Placement of reinforcement, connectors and anchorages.		◆	Verify reinforcement, joint reinforcement, anchor bolts and veneer anchors are installed per approved plans and Articles 3.2.E, 3.4, and 3.6.A of ACI 530.1.
Proportions of site-preparec grout.		◆	Verify grout proportions meet ASTM C 476 and a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite.
Construction of mortar joints		◆	Verify mortar joints placed in accordance with Article 3.3.B of ACI 530.1.
During Construction *(Table 1.19.2, TMS-402/ACI 530-11):*			
Size and location of structural elements		◆	Verify locations of structural elements per approved plans and confirm tolerances meet Article 3.3.F of ACI 530.1.
Type, size and location of anchors, frames, etc.		◆	Verify correct anchorages and connections are provided per approved plans and Sections 1.16.4.3 and 1.17.1 of ACI 530.
Placement of grout.	◆		
Preparation, construction and protection of masonry during cold weather (<40°F) or hot weather (>90°F).		◆	Verify cold-weather construction complies with Article 1.8.C of ACI 530.1 and hot weather construcion per Article 1.8.D of ACI 530.1.
Observation of grout specimens, mortar specimens, and/or prisms.		◆	Confirm specimens/prisms are performed as required by Article 1.4 of ACI 530.1.

SPECIAL INSPECTION SCHEDULE

Areas requiring special inspection:	Frequency: Continuous	Frequency: Periodic	Comments:
FABRICATORS (IBC 1704.2.5)			
	◆		If fabricator is approved, on-site inspection is not required but a certificate of completion must be provided to the B.O. (IBC 1704.2.5.2)
SOILS (IBC 1705.6)			
Verify adequate materials below footings		◆	Prior to placement of concrete.
Excavation extend to proper depth and materials		◆	Prior to placement of compacted fill or concrete.
Classification and testing of fill materials		◆	Check classification and gradations at each lift, but not less than once for each 10,000ft² of surface area.
Verify proper fill materials, lift thicknesses and in-place densities	◆		
Verify properly prepared site and subgrade		◆	Prior to placement of concrete.
CONCRETE CONSTRUCTION (IBC 1705.3)			
Reinforcing steel placement		◆	Verify size, clearances, splices and proper ties.
Embedded bolts or plates	◆		
Verify required design mix		◆	Verify mix design meets strength and exposure requirements listed on approved plans.
Concrete placement/sampling	◆		Incluces samoling for air, slump, strength and temperature technicues
Inspect formwork		◆	Verify shape, location and member dimensions.
Post-installed anchors	◆		In accordance with approved ICC-ES Report. Periodic inspections allowed f stated in ES Report.
COLD-FORMED STEEL CONSTRUCTION (IBC 1705.11.3)			
Components of wind- and seismic-force resisting systems.		◆	Verify proper screw attachment, bolting and anchoring of shear walls, braces and holdowns having a fastener spacing ≤ 4"o.c.
OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)			
Steel Roof & Floor Deck:			
Material verification of steel deck		◆	Identification markings per applicable ASTM standard
Roof and deck welds		◆	Verify that welds conform to AWS D1.3.
Welding of Reinforcing Steel:			
Verification of weldability *(except A706 bar)*		◆	Verify material is able to conform to AWS D1.4.
STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2, 1705.11, 1705.12)			
Prior to Welding *(Table NS.4-1, AISC 360-10):*			
Verify welding procedures	◆		
Material identification		◆	Verify type and grade of material.
Welder identification		◆	Verify there is a system in place to identify the weider who has welded a joint or member.
Fit-up groove welds		◆	Verify joint preparation, dimensions, cleaniness, tacking and backing.
Access holes		◆	Verify configuration and finish.
Fit-up fillet welds		◆	Verify alignment, gaps at root, cleanliness of steel surfaces, tack weld cuality and location.

SPECIAL INSPECTION SCHEDULE *(continued)*

Areas requiring special inspection:	Frequency: Continuous	Frequency: Periodic	Comments:
STRUCTURAL STEEL CONSTRUCTION *(continued)*			
During Welding *(Table NS.4-2, AISC 360-10):*			
Use of qualified welders		◆	Verify that welders are appropriately qualified.
Control and handling of welding consumables		◆	Verify packaging and expcsure control.
Cracked tack welds		◆	Verify welding is not over a cracked tack weld.
Environmental conditions		◆	Verify wind speed is within limits as well as precipitation and temperature.
WPS followed		◆	Verify items such as welding equipment settings, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Welding techniques		◆	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
After Welding *(Table NS.4-3, AISC 360-10):*			
Welds cleaned		◆	Verify that welds have been properly cleaned.
Size, length and location of welds	◆		
Welds meet visual acceptance criteria	◆		
Arc strikes	◆		
k-area	◆		
Backing & welding tabs removed	◆		
Repair activities	◆		
Document acceptance/rejection of weld	◆		
Nondestructive Testing *(Table NS.5, AISC 360-10):*			
CJP welds (Risk Cat. II)		◆	Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if > 5% of welds have unacceptable defects.
Access holes (flange > 2")	◆		
Welded joints subject to fatigue	◆		
Other Steel Inspections *(Table NS.5.7, AISC 360-10; Tables J8-1 and J10-1, AISC 341-10)*			
Structural steel details		◆	All fabricated steel and their connections shall be inspected to verify compliance with the details shown in the approved plans.
Anchor rods/embeds supporting structural steel		◆	Shall be on the premises during the placement of anchor rods/embedments. Verify diameter, grade, type, and length of element and tne extent or depth of embedment prior to placement of concrete.
Protected zones		◆	Verify that no holes or unapproved attachments are made within the protected zone *(see Table J8-1 of AISC 341)*.

SHEET INDEX

SHT #	SHEET NAME	ORIGINAL	1 11-10-23
S001	STRUCTURAL GENERAL NOTES	●	
S101	MAIN FLOOR SLAB PLAN	●	
S201	MAIN FLOOR WALL FRAMING PLAN	●	
S501	STRUCTURAL DETAILS	●	

ABBREVIATIONS

A.B.	ANCHOR BOLT	LVL	LAMINATED VENEER LUMBER
ARCH'L	ARCHITECTURAL DRAWINGS	MFR	MANUFACTURED
BLDG	BUILDING	N.T.S.	NOT TO SCALE
BLK.	BLOCK	o/	OVER
BLK'G	BLOCKING	O.C.	ON CENTER
BM	BEAM	OPT'L	OPTIONAL
CANT'L	CANTILEVERED	O.S.B.	ORIENTED STRAND BOARD
℄	CENTER LINE	PSL	PARALLEL STRAND LUMBER
CL'G	CEILING	PL	PLATE
CMU.	CONCRETE MASONRY UNIT	REQ'D	REQUIRED
COL.	COLUMN	SHTH'G	SHEATHING
CONT.	CONTINUOUS	SHT.	SHEET
DBL.	DOUBLE	SIM.	SIMILAR
DTL.	DETAIL	STL	STEEL
EL.	ELEVATION	SW	STRONG-WALL
E.O.R.	ENGINEER OF RECORD	T.O.F.	TOP OF FOOTING
FDN.	FOUNDATION	T.O.W.	TOP OF WALL
FTG.	FOOTING	T&B	TOP AND BOTTOM
GL	GLUE LAMINATED (BEAM)	TYP.	TYPICAL
HDR	HEADER	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
H.D.	HOLD DOWN	w/	WITH
LSL	LAMINATED STRAND LUMBER		

RELEASE DATE: NOVEMBER 10, 2023
BUILDING DEPARTMENT SUBMITTAL

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PROJECT: L0062-102-232

Project Name
OGDEN-HINCKLEY AIRPORT
TERMINAL REMODEL
3909 AIRPORT ROAD
OGDEN, UT 84405

Issued

No.	Date	Description
1	11-10-23	BLDG DEPT SUBMITTAL

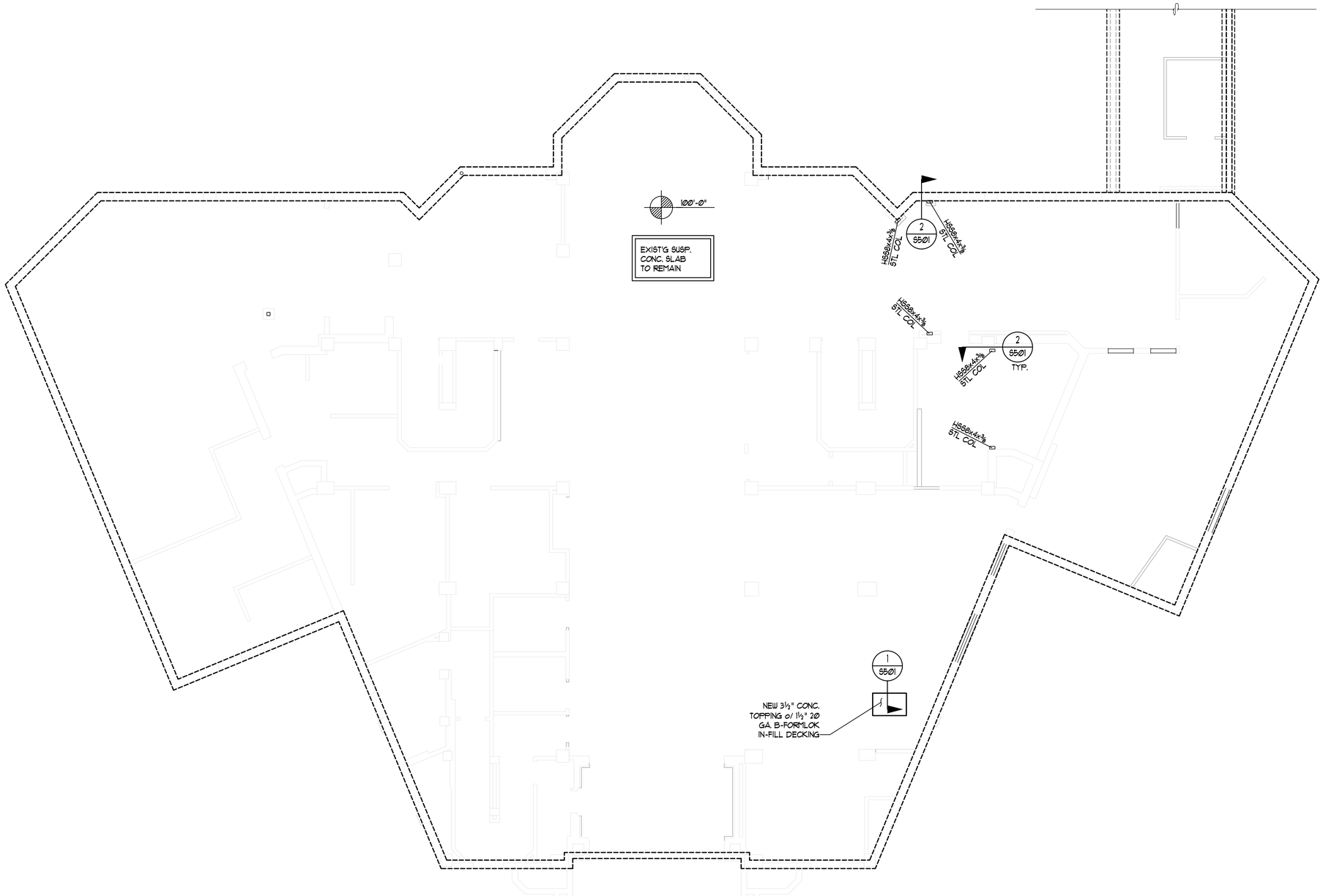
Revision

No.	Date	Description

SAA Project No. 2021-10

Drawing Title
STRUCTURAL GENERAL NOTES

Sheet Number
S001



MAIN FLOOR SLAB PLAN

3/16" = 1'-0"

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Revision

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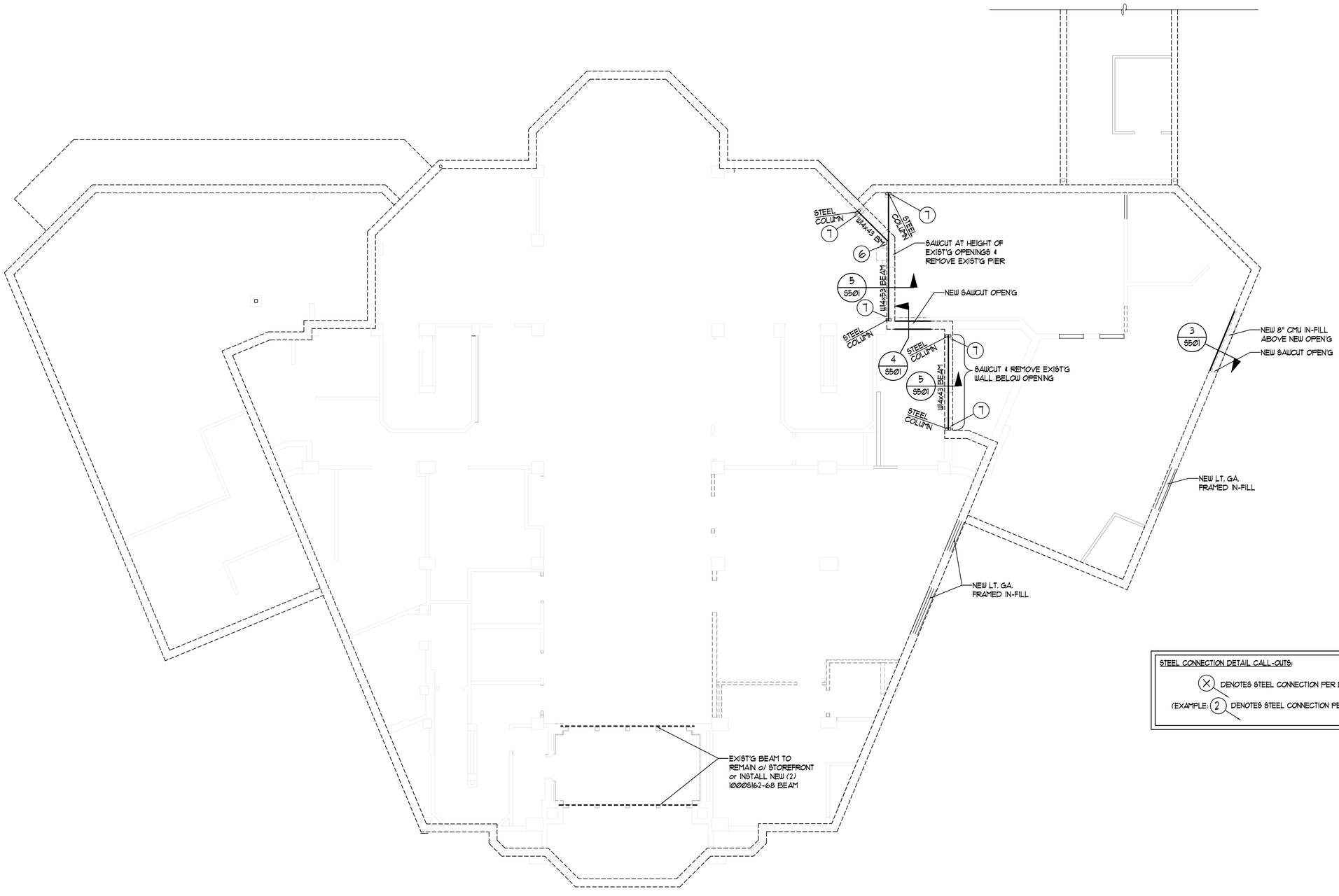
SAA Project No. 2021-10

Drawing Title

MAIN FLOOR SLAB PLAN

Sheet Number

S101



MAIN FLOOR WALL FRAMING PLAN

3/16" = 1'-0"

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	11-10-23	BLDG DEPT SUBMITTAL

Revision

No.	Date	Description

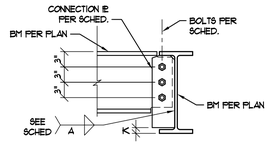
SAA Project No. 2021-10

Drawing Title

MAIN FLOOR WALL FRAMING PLAN

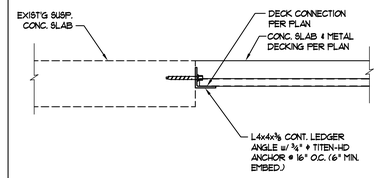
Sheet Number

S201



BEAM CONNECTION SCHEDULE			
SHEAR ℄ CONNECTION			
MEMBER (DEPTH)	# OF BOLTS CONN. 3/4" DIA. A325N	℄ t	WELD SIZE A
5"-6"	1	5/16"	1/4"
8"-10"	2	5/16"	1/4"
12"-14"	3	5/16"	1/4"
15"-16"	4	3/8"	5/16"
18"-21"	5	3/8"	5/16"
24"	6	3/8"	5/16"

N.T.S. 6



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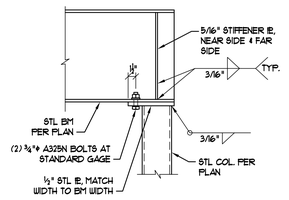

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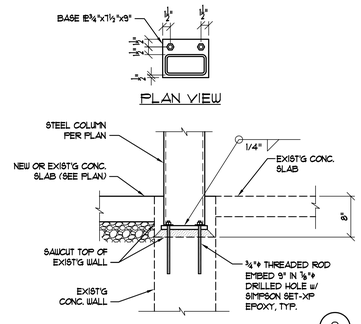

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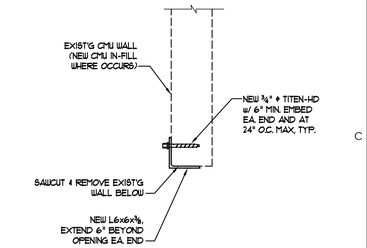

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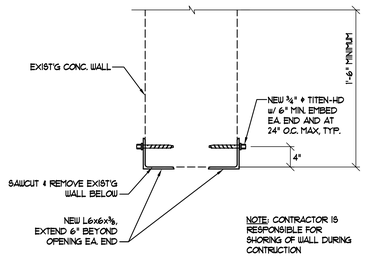

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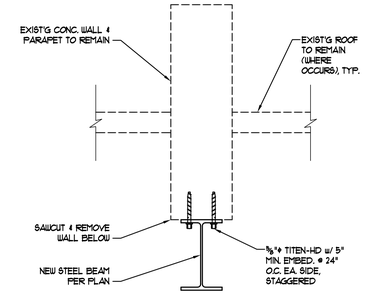

N.T.S. 5

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Drawing Title

STRUCTURAL DETAILS

Sheet Number

S501

GENERAL NOTES

1. ALL DRAWINGS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL ASPECTS OF THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING PRICING. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO TO ANY INSTALLATION SUCH THAT CLARIFICATIONS CAN BE ISSUED.
2. ANY WORK PERFORMED OR MATERIAL USED WHICH IS SHOWN TO BE IN CONFLICT WITH THE CONTRACT DRAWINGS, SPECIFICATIONS OR ANY APPLICABLE CODE OR GOVERNING REGULATION SHALL BE REMOVED AND REPLACED OR CORRECTED AT THE CONTRACTOR'S EXPENSE.
3. ALL SYMBOLS AND ABBREVIATIONS USED ON THE CONTRACT DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
4. DO NOT SCALE THE DRAWINGS; ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO FABRICATION OF MATERIALS OR ERECTION OF ASSEMBLIES. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
5. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETION OF THE WORK. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE DONE IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND GOVERNING REGULATIONS.
6. ALL PERMITS AND FEES WHICH ARE REQUIRED FOR THIS WORK SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR.
7. ALL PLUMBING AND MECHANICAL INSTALLATIONS SHALL ADHERE TO THE 2021 IECC INCLUDING: MINIMUM R-8 INSULATION ON ALL NON-ACOUSTICALLY LINED DUCTWORK; ACOUSTICAL LINER SHALL PROVIDE A MINIMUM OF R-8 INSULATING VALUE. ALL DOMESTIC WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1" FIBERGLASS INSULATION.

PLUMBING SYMBOL LEGEND \ ABBREVIATIONS

WCO	WALL CLEAN OUT		DROP IN PIPE	C.O.	CLEAN OUT
	DOMESTIC COLD WATER (DCW)		RISE IN PIPE	VTR	VENT THROUGH ROOF
	DOMESTIC HOT WATER (DHW)		ELBOW IN PIPE	A.F.F.	ABOVE FINISHED FLOOR
	WASTE (W)		TEE IN PIPE		
	VENT (V)		NATURAL GAS (G)		

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	COLD	HOT	TRAP	WASTE	VENT	REMARKS
P-1	LAVATORY, UNDER COUNTER MTD., ADA COMPLIANT, AUTOMATIC FAUCET	1/2"	1/2"	1-1/2"	2"	1-1/2"	-
P-2	BREAK ROOM SINK, SINGLE BOWL, STAINLESS STEEL, GARBAGE DISPOSAL	1/2"	1/2"	1-1/2"	2"	1-1/2"	-
P-3	WATER COOLER WITH BOTTLE FILLER	1/2"	-	1-1/4"	2"	1-1/2"	-
WCO	WALL CLEAN OUT	-	-	-	-	-	-

GENERAL FIXTURE NOTES:

1. THE PLUMBING CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF ALL PLUMBING EQUIPMENT AND THE RELATED ROUGH IN LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS. PROVIDE ALL ACCESSORIES AND OPTIONS REQUIRED TO PROVIDE THE OWNER A COMPLETELY FUNCTIONAL PLUMBING SYSTEM.
2. ALL WALL HUNG PLUMBING FIXTURES SHALL BE SUPPORTED BY FLOOR MOUNTED CARRIERS (SMITH, JOSAM, MIFAB, OR WATTS) CARRIERS SHALL BE CONSTRUCTED UTILIZING ALL METAL COMPONENTS WITH SUPPORT FEET SECURELY ANCHORED TO FLOOR STRUCTURE. FIXTURE ARMS SHALL SUPPORT FIXTURE INDEPENDENT FROM WALL STRUCTURE.
3. EACH INDIVIDUAL FIXTURE SUPPLY SHALL BE PROVIDED WITH A CHROME-PLATED QUARTER TURN STOP VALVE BRASSCRAFT MODEL KTCR, OR ENGINEER APPROVED EQUAL.
4. FIXTURES AND ACCESSORIES SHALL BE AS SCHEDULED. EACH ITEM SHALL BE COMPLETE WITH CHROME-PLATED BRASS TRIM.
5. ADA COMPLIANT FIXTURES SHALL BE INSTALLED WITH PRE-FORMED INSULATION AND PROTECTIVE COVERS ON P-TRAPS AND STOPS. COVERS TO BE MANUFACTURED BY BUCKAROOS OR TRUEBRO.
6. CAULK ALL FIXTURES TO THE WALL OR FLOOR WITH APPLICABLE SILICONE COMPOUND. UTILIZE MULTIPLE BEADS TO FILL GAPS AND FINISH TO SMOOTH, FILLETED EDGE. USE APPROPRIATE TOOLS TO PROVIDE PROFESSIONAL APPEARANCE.
7. ALL PLUMBING SHALL BE INSTALLED TO CONFORM TO THE LATEST ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE INCLUDING LOCAL AMENDMENTS. CONSULT AUTHORITIES HAVING JURISDICTION.
8. ALL SINKS AND LAVATORIES WHERE HAND WASHING IS ANTICIPATED (FIXTURE P-2) SHALL BE PROTECTED WITH ASSE 1070 APPROVED TEMPERING VALVES PER DETAIL 5/MP-000.

PIPING MATERIALS SCHEDULE

SERVICE	MATERIAL	REMARKS
DCW / DHW	TYPE "L" COPPER TUBING W/ WROUGHT COPPER FITTINGS	-
NAT. GAS	SCHEDULE 40 BLACK IRON	-
WASTE / VENT	SOLID CORE ABS OR PVC WITH DWV FITTINGS ABOVE AND BELOW GRADE	-

SYMBOL LEGEND

	SUPPLY AIR DIFFUSER	H.D.	HAND DAMPER, SEE DETAIL 6/M-500	(S)	WIRELESS TEMPERATURE SENSOR
	RETURN OR EXHAUST GRILLE		RISE OR DROP IN DUCT	A.L.	ACOUSTICAL LINING
24"x 12"	ACOUSTICALLY LINED DUCTWORK (INSIDE CLEAR DIMENSION)	(T)	THERMOSTAT	S.A.	SUPPLY AIR
SLOPE	SLOPE IN DUCT, SEE SECTIONS FOR SLOPE DIRECTION		SUPPLY AIR DIRECTION	R.A.	RETURN AIR
	RECTANGULAR SUPPLY AIR DUCT CROSS SECTION		RETURN AIR DIRECTION	NK.	NECK
	ROUND SUPPLY AIR DUCT CROSS SECTION	A.F.F.	ABOVE FINISHED FLOOR		

HEATING/COOLING ROOFTOP UNIT (RTU)

SYMBOL	HEATING SECTION		COOLING SECTION		FAN SECTION			COND. COIL AREA (SQ. FT.)	COND. COIL CFM	AMB. AIR TEMP.	MIN. EER	UNIT ELEC. REQUIREMENTS					YORK MODEL	REMARKS
	HEATING INPUT (BTUH)	HEATING OUTPUT (BTUH)	TOTAL CAP. (BTUH)	SENS. CAP. (BTUH)	CFM	E.S.P. (IN. WC.)	MOTOR H.P.					VOLTS	PH.	HZ.	MCA	MOCP		
RTU-1	115,000	80,000	32,100	29,700	935	1.2	1.5	16.3	3,800	95°F	11.2	208	3	60	14.6	15	ZE036	(1)(2)(3)(4)(5)(6)(7)(8)

(1) CAPACITY REQUIRED AT SITE ELEVATION AND CONDITIONS.
(2) PROVIDE UNIT WITH 120 V CONVENIENCE OUTLET.
(3) FACTORY INSTALLED ECONOMIZER W/ BARO. RELIEF.
(4) BELT DRIVE
(5) PROVIDE UNIT WITH RETURN AIR SMOKE DETECTOR.
(6) 2 STAGE GAS BURNER
(7) 2 STAGE COOLING
(8) BALANCE OUTSIDE AIR TO 175 CFM.

UNIT WEIGHTS:
RTU-1 - 550 LBS.

SEE SPECIFICATION SECTION 236200 FOR ADDITIONAL REQUIREMENTS.

AIR CURTAIN (ACU)

SYMBOL	NOZZLE WIDTH (IN.)	AVG. NOZZLE VELOCITY (FPM)	AIR VOLUME (CFM)	ELECTRICAL REQUIREMENTS						BERNER MODEL	REMARKS
				VOLTS	PH.	HZ.	# MOTORS / HP	MCA	MOCP		
ACU-1	99.00	2,492	6,000	240	1	60	3 @ 1	19.5	25	ARC-16-2096A	-
ACU-2	99.00	2,492	6,000	240	1	60	3 @ 1	19.5	25	ARC-16-2096A	-

SEE SPECIFICATION SECTION 238700 FOR ADDITIONAL REQUIREMENTS.

SPLIT AIR CONDITIONING UNITS

INDOOR SECTION (AC)

SYMBOL	COOLING CAPACITY (BTUH)	CFM HIGH SPEED	ELECTRICAL REQUIREMENTS				CARRIER MODEL	REMARKS
			VOLTS	PH.	HZ.	AMPS		
AC-1	12,000	305	208	1	60	< 1.0	40MHHH12	(1)(2)

(1) CAPACITIES AT JOB SITE ELEVATION OF 4,500 FEET ABOVE SEA LEVEL.
(2) PROVIDE WITH MANUFACTURER'S INLINE CONDENSATE PUMP.

OUTDOOR SECTION (CU)

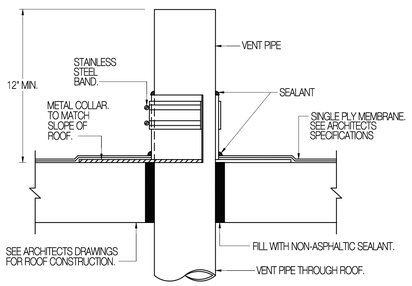
SYMBOL	COOLING CAPACITY (BTUH)	ENTERING OUTSIDE AIR DB°F	ELECTRICAL REQUIREMENTS					CARRIER MODEL	REMARKS
			VOLTS	PH.	HZ.	MCA	MOCP		
CU-1	12,000	95°F	208	1	60	11	15	38MHRBC12	-

SEE SPECIFICATION SECTION 236500 FOR ADDITIONAL INFORMATION.

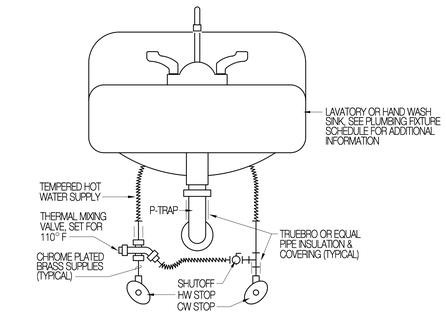
GRILLES AND DIFFUSERS

SYMBOL	CFM	NECK SIZE	FACE SIZE	KRUEGER MODEL	REMARKS
S-1	AS NOTED	AS NOTED	AS NOTED	1400	-
R-2	AS NOTED	AS NOTED	AS NOTED	6490	-

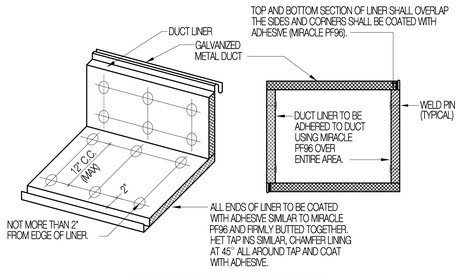
SEE SPECIFICATION SECTION 239400 FOR ADDITIONAL REQUIREMENTS.



8 MP000 **TYPICAL VENT THRU ROOF DETAIL** SCALE: NONE

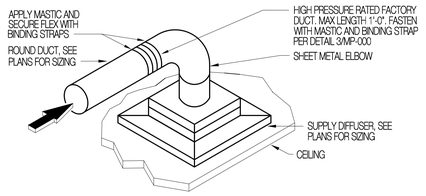


5 MP000 **TEMPERING VALVE DETAIL** SCALE: NONE

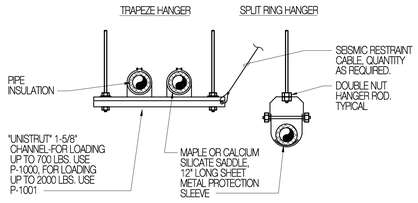


LINING FASTENERS:
DURA DYNE MODEL CP WELD TYPE FASTENERS OR EQUIVALENT. ADHESIVE TYPE STICK CLIPS OR GRIP NAILS NOT ALLOWED.

9 MP000 **ACOUSTICAL LINER DETAIL** SCALE: NONE



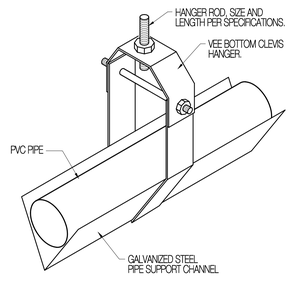
10 MP000 **DIFFUSER CONNECTION DETAIL** SCALE: NONE



PIPE SIZE	MAX. SPACING	PIPE LOAD WEIGHT/FT. TOTAL	ROD SIZE
1" AND SMALLER	8	2.5/20	3/8"
1-1/4" - 2"	10	6/60	3/8"

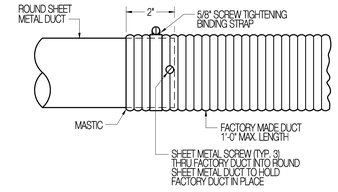
HANGERS SIZES AND SPACING ARE FOR SINGLE PIPES. HANGER ROD LOADING FOR TRAPEZE HANGERS SHALL NOT EXCEED THE TOTAL LOADING INDICATED. IF SMALLER ROD SIZE IS USED, DECREASE MAXIMUM SPACING SO THAT TOTAL LOADING IS NOT EXCEEDED.

6 MP000 **PIPE HANGER DETAIL** SCALE: NONE

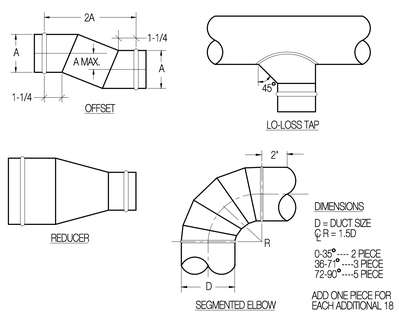


NOTE: HANGER AND CHANNEL BASED ON B-LINE. HANGER B3106 AND CHANNEL B3106V.

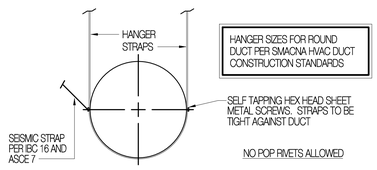
7 MP000 **PVC PIPE SUPPORT DETAIL** SCALE: NONE



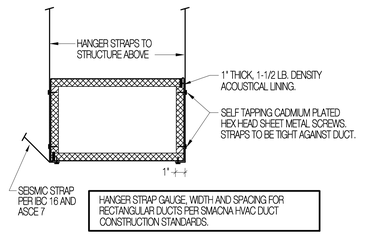
3 MP000 **FACTORY DUCT DETAIL** SCALE: NONE



4 MP000 **ROUND DUCT FITTINGS** SCALE: NONE



1 MP000 **RND. DUCT HANGER DETAIL** SCALE: NONE



2 MP000 **RECT. DUCT HANGER DETAIL** SCALE: NONE

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Project Name
OGDEN-HINCKLEY AIRPORT
TERMINAL EXPANSION
3909 AIRPORT ROAD
OGDEN, UT 84405

Issued

No.	Date	Description
1	08-12-22	DEMO PACKAGE

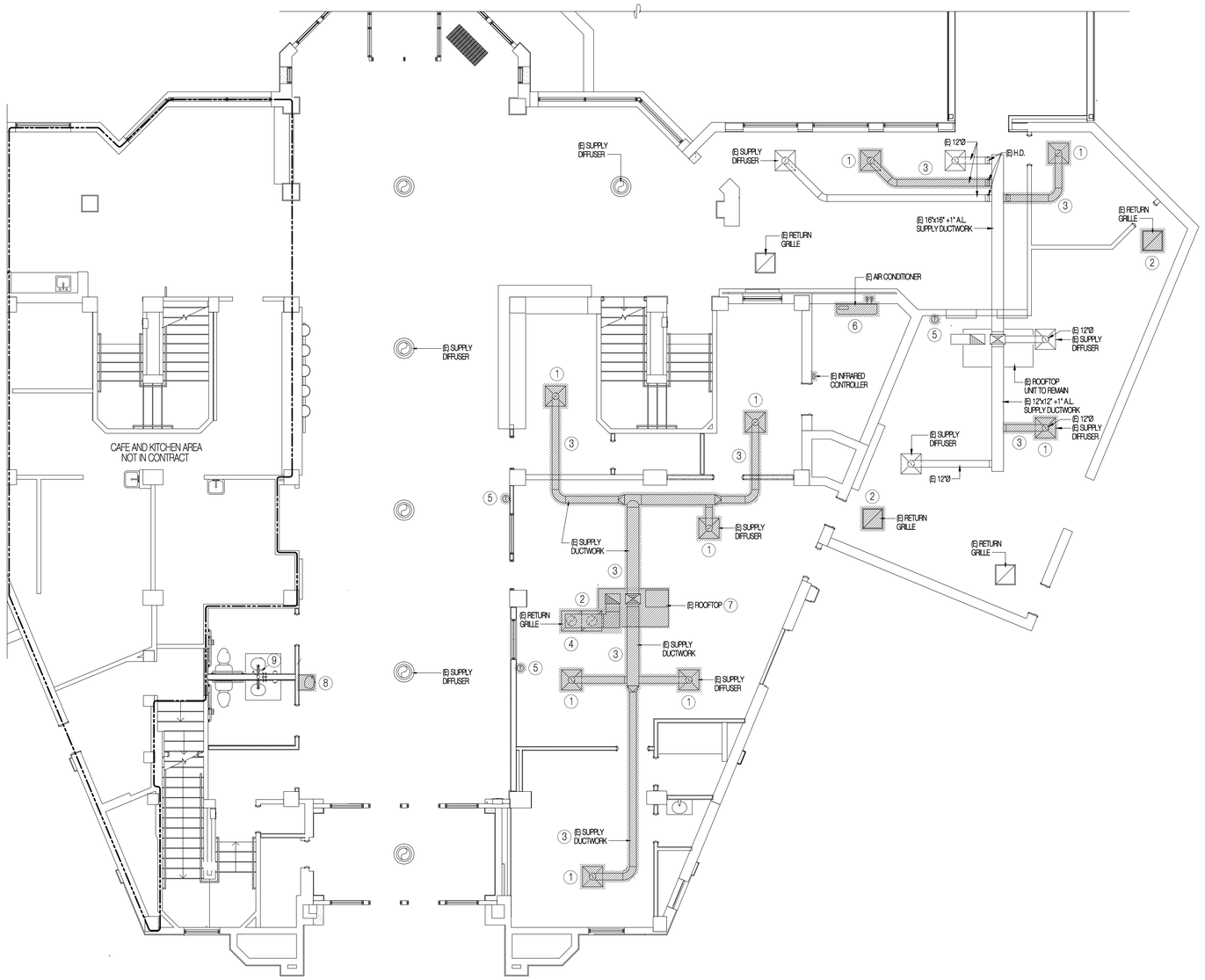
Revision

No.	Date	Description

SAA Project No. 2021-10

Drawing Title
MECH. / PLUMBING SYMBOL LEGEND, AND SCHEDULES

Sheet Number
MP-000



HVAC / PLUMBING DEMOLITION PLAN

SCALE 3/16" =1'-0"

NORTH

GENERAL DEMO. NOTES

1. REMOVE ALL PORTIONS OF EXISTING PLUMBING INSTALLATION NOT REQUIRED TO REMAIN IN SERVICE. FIELD COORDINATE REMOVAL WITH REMODEL PLAN SHEET M-100. REMOVE EXISTING EQUIPMENT, DUCTWORK AND CONTROLS, ETC PREPARATORY TO NEW WORK.
2. REMOVE ALL PORTIONS OF EXISTING HVAC / MECHANICAL INSTALLATION NOT REQUIRED TO REMAIN IN SERVICE. FIELD COORDINATE REMOVAL WITH REMODEL PLAN SHEET M-100. REMOVE EXISTING EQUIPMENT, DUCTWORK AND CONTROLS, ETC PREPARATORY TO NEW WORK.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING OVERHEAD UTILITIES PRIOR TO START OF NEW WORK. ADAPT EXISTING UTILITIES TO SIZES AND UTILITIES PRIOR TO START OF NEW WORK.

DRAWING NOTES

1. REMOVE EXISTING SUPPLY AIR GRILLE PREPARATORY TO NEW WORK.
2. REMOVE EXISTING RETURN AIR GRILLE PREPARATORY TO NEW WORK.
3. REMOVE PORTIONS OF EXISTING SUPPLY AIR DUCTWORK PREPARATORY TO NEW WORK.
4. REMOVE PORTIONS OF EXISTING RETURN AIR DUCTWORK PREPARATORY TO NEW WORK.
5. REMOVE EXISTING TEMPERATURE CONTROLS PREPARATORY TO NEW WORK.
6. REMOVE EXISTING AIR CONDITIONER PREPARATORY TO NEW WORK. REMOVAL SHALL INCLUDE INTERIOR FAN COIL UNIT, EXTERIOR CONDENSING UNIT, REFRIGERATION PIPING AND CONTROLS.
7. REMOVE EXISTING ROOFTOP UNIT COMPLETE PREPARATORY TO NEW WORK.
8. REMOVE EXISTING PLUMBING FIXTURE COMPLETE PREPARATORY TO NEW WORK. REMOVAL SHALL INCLUDE FIXTURE, FIXTURE CARRIER, AND ALL ACCESSORIES.
9. REMOVE EXISTING PLUMBING ACCESSORIES FROM EXISTING LAVATORIES PREPARATORY TO NEW WORK AND MOVEMENT OF EXISTING LAVATORIES.

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OGDEN, UT 84405

Issued

No.	Date	Description
1	05-15-23	PLAN REVIEW

Revision 1

No.	Date	Description

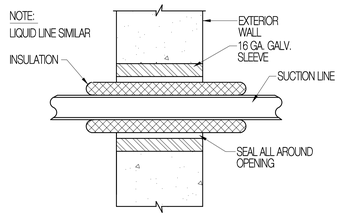
SAA Project No. 218037

Drawing Title

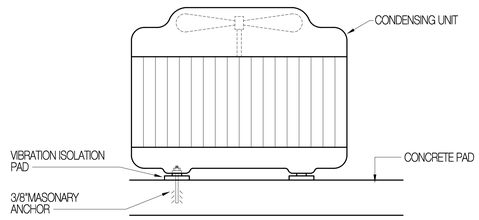
HVAC / PLUMBING DEMOLITION PLAN

Sheet Number

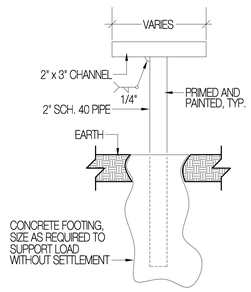
MPD-100



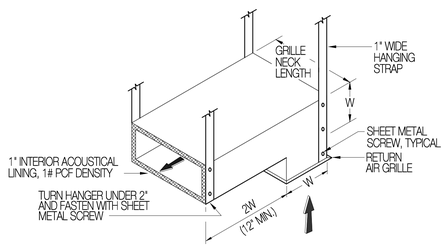
3 M100 REFRIG. PIPING SLEEVE AT WALL
SCALE: NONE



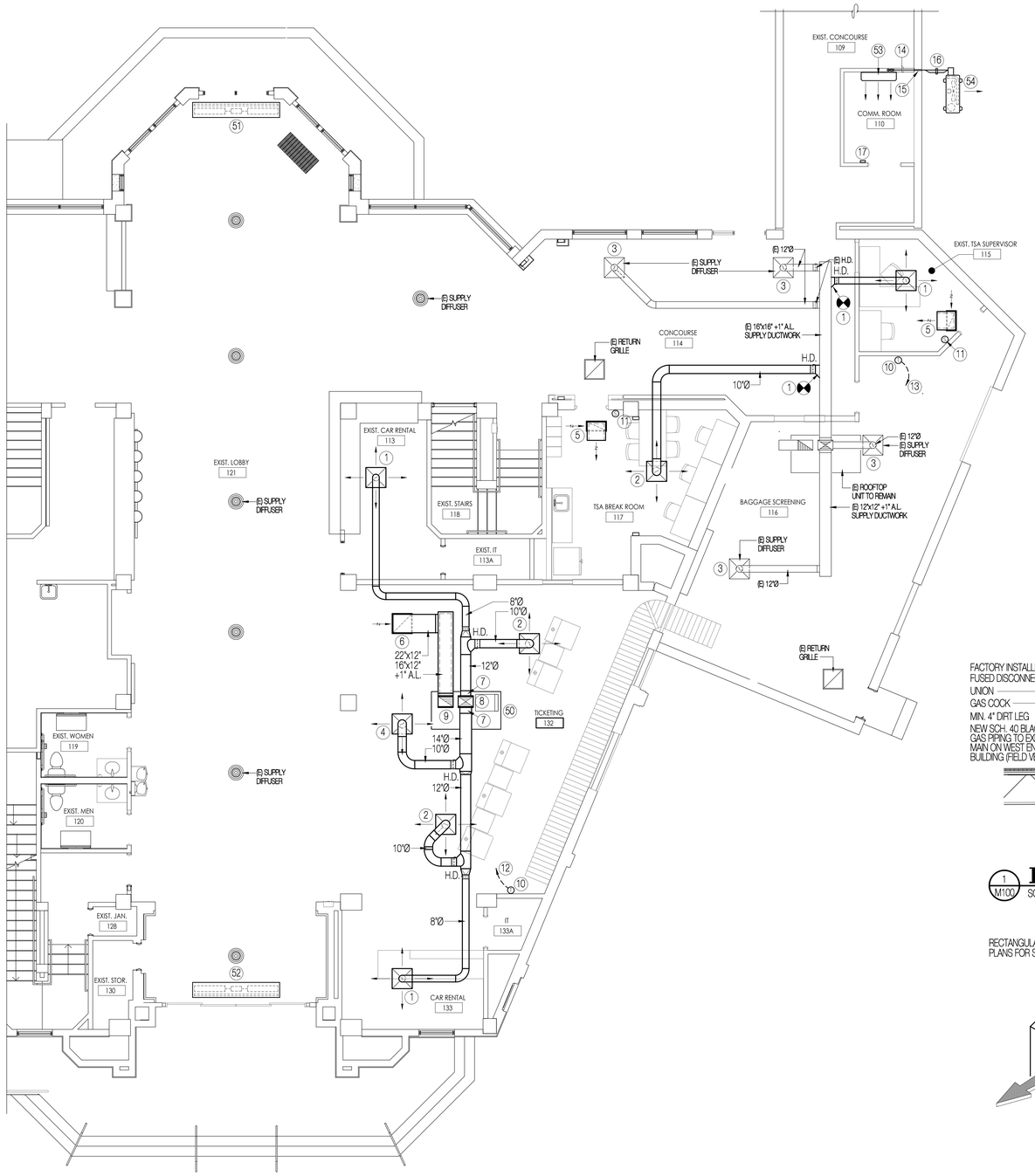
4 M100 CONDENSING UNIT MTG. DETAIL
SCALE: NONE



5 M100 EXTERIOR SUPPORT DETAIL
SCALE: NONE



6 M100 SOUND BOOT DETAIL
SCALE: NONE



MAIN FLOOR HVAC REMODEL PLAN
SCALE 3/16" =1'-0"

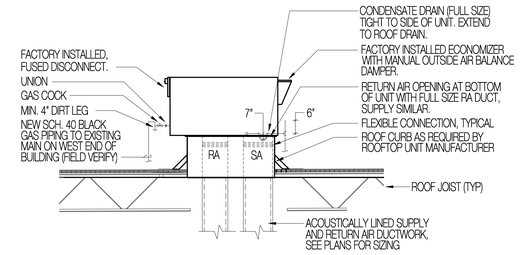
NORTH

DRAWING NOTES

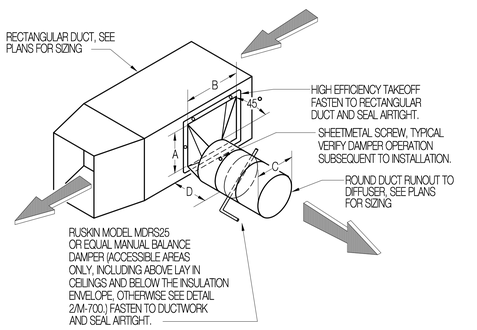
1. S-1 145 CFM, 8" Ø NK. SUPPLY AIR DIFFUSER.
2. S-1 215 CFM, 10" Ø NK. SUPPLY AIR DIFFUSER.
3. REMOVE EXISTING GRILLE, THOROUGHLY CLEAN, AND INSTALL HARD ELBOW ON TOP OF RE-INSTALLED GRILLE. SHORTEN AND STRAIGTHEN EXISTING FLEXIBLE DUCTWORK AND RECONNECT TO RE-INSTALLED DIFFUSER. RE-BALANCE GRILLE TO 475 CFM.
4. S-1 275 CFM, 10" Ø NK. SUPPLY AIR DIFFUSER.
5. R-1 10"x22" NK. R.A. GRILLE WITH SOUND BOOT, SEE DETAIL 6/M-100.
6. R-2 22"x22" NK. R.A. GRILLE.
7. HIGH EFFICIENCY TAKEOFF, TYPICAL OF ALL.
8. 16"x12"+1" A.L. SUPPLY AIR DUCT PLENUM ON BOTTOM OF ROOFTOP UNIT. TRANSITION DUCT PLENUM TO OUTLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 1/M-100.
9. 16"x12"+1" A.L. RETURN AIR DUCTWORK ON BOTTOM OF ROOFTOP UNIT. TRANSITION DUCTWORK TO INLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 1/M-100.
10. PROVIDE AND INSTALL NEW THERMOSTAT, MOUNT THERMOSTAT AT 48" A.F.F. ON BUILDING WALL WITH RECESSSED 2x4 METAL BOX.
11. PROVIDE AND INSTALL NEW WIRELESS TEMPERATURE SENSOR AT 48" A.F.F. SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
12. MECHANICAL CONTROL WIRING FROM THERMOSTAT TO MECHANICAL EQUIPMENT. EXTEND WIRING IN CONDUIT PER THE LATEST EDITION OF THE NEC.
13. PROVIDE NEW MECHANICAL CONTROL WIRING FROM THERMOSTAT TO EXISTING MECHANICAL EQUIPMENT. EXTEND WIRING IN CONDUIT PER THE LATEST EDITION OF THE NEC AND VERIFY PROPER OPERATION OF EXISTING ROOFTOP UNIT.
14. 1/4" LIQUID AND 3/8" SUCTION PIPING FROM EXTERIOR CONDENSING UNITS TO INTERIOR AIR CONDITIONERS.
15. PIPE SLEEVE AT REFRIGERATION PENETRATION AT WALL, SEE DETAIL 3/M-100.
16. EXTERIOR REFRIGERATION PIPE SUPPORT, SEE DETAIL 5/M-100.
17. PROVIDE AND INSTALL AIR CONDITIONER (AC) CONTROLLER. MOUNT CONTROLLER AT 48" A.F.F. IN MANUFACTURER PROVIDED MOUNTING FRAME.

EQUIPMENT NOTES

- 50 RTU 1 ROOFTOP UNIT
- 51 ACU 1 AIR CURTAIN
- 52 ACU 2 AIR CURTAIN
- 53 AC 1 AIR CONDITIONER
- 54 CU 1 CONDENSING UNIT



1 M100 RTU INSTALLATION DETAIL
SCALE: NONE



HET DIMENSIONS

BRANCH SIZE (C)	THROAT DIM. A	THROAT DIM. B	MIN. AREA AxB
6"	8-1/4"	12"	3.5 X AREA OF C
8"	10-1/4"	14"	2.8 X AREA OF C
10"	12"	15"	2.3 X AREA OF C
12"	14"	17"	2.1 X AREA OF C
LENGTH D SHALL BE A MINIMUM OF 11"			

2 M100 ROUND DUCT RUNOUT DETAIL
SCALE: NONE

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No.	Date	Description
1	05-15-23	PLAN REVIEW

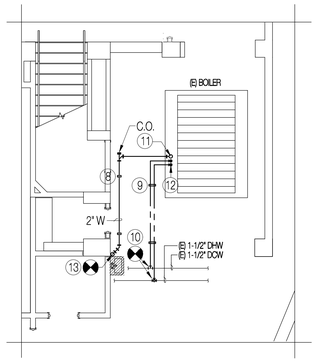
Revision 1

No.	Date	Description

SAA Project No. 2012-10

Drawing Title
MAIN FLOOR HVAC REMODEL PLAN

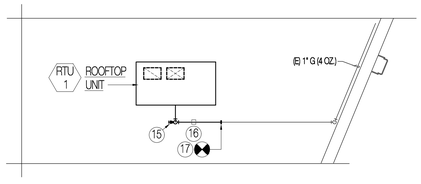
Sheet Number
M-100



PARTIAL BASEMENT FLOOR PLUMBING REMODEL PLAN

SCALE 3/16" =1'-0"

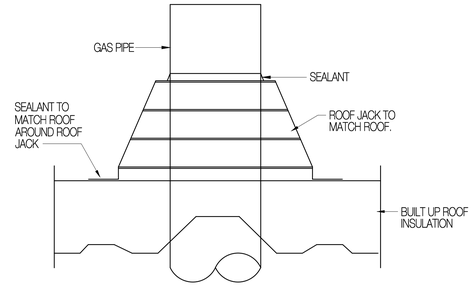
NORTH



PARTIAL ROOF PLUMBING PLAN

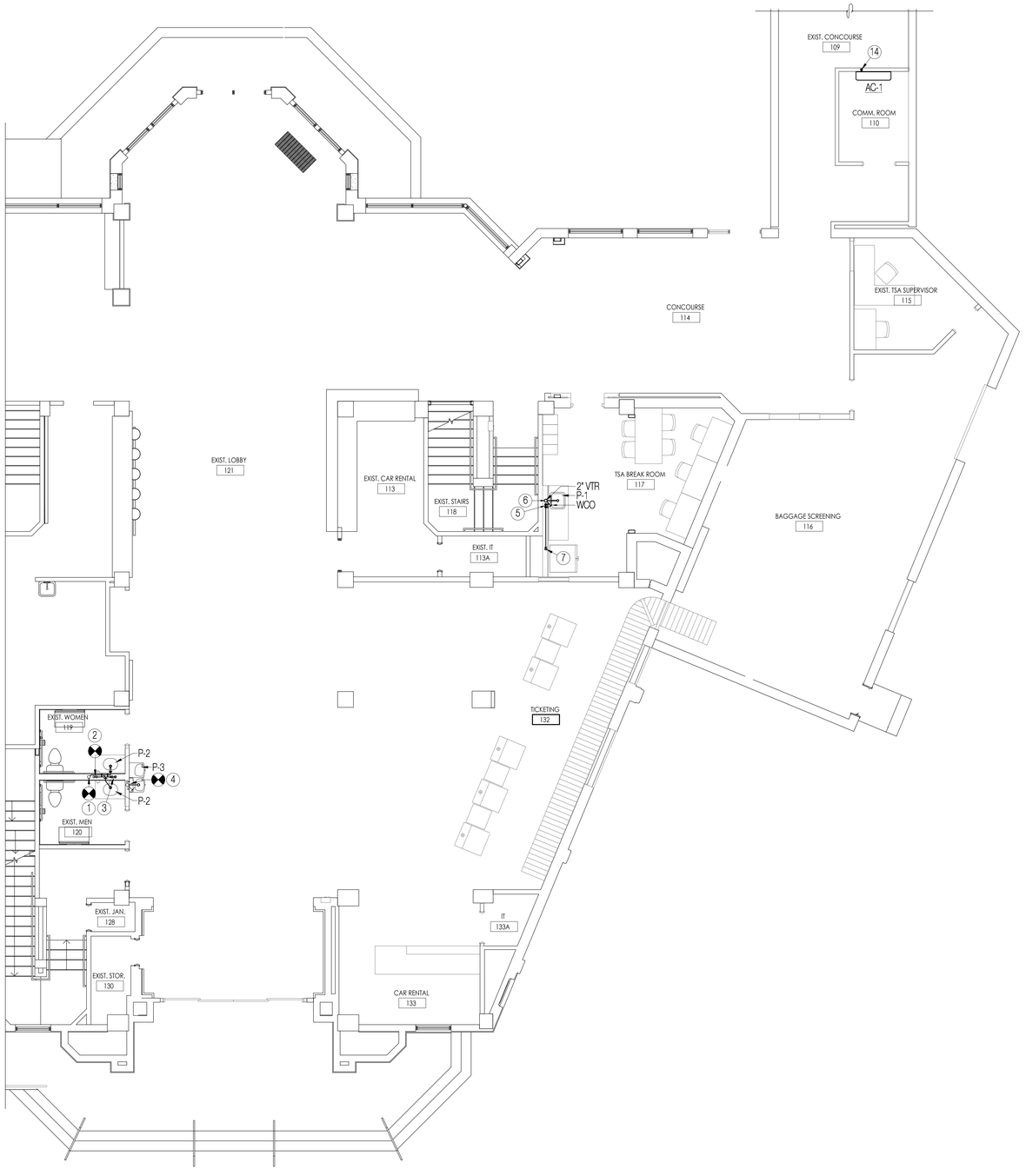
SCALE 3/16" =1'-0"

NORTH



1 P100 **PIPE THROUGH ROOF DETAIL**

SCALE: NONE



MAIN FLOOR PLUMBING REMODEL PLAN

SCALE 3/16" =1'-0"

NORTH

DRAWING NOTES

1. OPEN EXISTING WALL AND FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING WASTE PIPING SERVING LAVATORIES. SHIFT WASTE PIPING IN WALL TO MATCH LOCATION OF RELOCATED LAVATORIES AND CONNECT WITH NEW FITTINGS AND ACCESSORIES.
2. OPEN EXISTING WALL AND FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING WATER PIPING SERVING LAVATORIES. SHIFT WATER PIPING IN WALL TO MATCH LOCATION OF RELOCATED LAVATORIES AND CONNECT WITH NEW ACCESSORIES.
3. 1/2" DOMESTIC HOT WATER AND 1/2" DOMESTIC COLD WATER PIPING DROPS TO FIXTURE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
4. CONNECT NEW DRINKING FOUNTAIN TO EXISTING WATER AND WASTE PIPING WITH NEW ACCESSORIES.
5. 1/2" DOMESTIC HOT WATER AND 1/2" DOMESTIC COLD WATER PIPING RISES FROM BELOW TO FIXTURE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
6. 2" SANITARY SEWER PIPING DROP TO FLOOR BELOW, SEE BASEMENT LEVEL PLUMBING PLAN SHEET P-100 FOR CONTINUATION.
7. 1/2" DOMESTIC COLD WATER PIPING DROP TO GUY GRAY MODEL AB-9700 (OR EQUAL) ICE MAKER BOX. INSTALL BOX AT REQUIRED ROUGH-IN HEIGHT READY FOR CONNECTION TO OWNERS FRIDGE.
8. NON-FERROUS PIPE SUPPORT, SEE DETAIL 7/MP-000.
9. PIPE SUPPORT, SEE DETAIL 6/MP-000.
10. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING DOMESITC HOT AND COLD WATER PIPING AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.
11. 2" SANITARY SEWER RISE TO MAIN FLOOR, SEE MAIN FLOOR PLUMBING REMODEL PLAN THIS SHEET FOR CONTINUATION.
12. 1/2" DOMESTIC HOT, AND 1/2" DOMESTIC COLD WATER PIPING RISE TO FIXTURES ABOVE. SEE MAIN FLOOR PLUMBING REMODEL PLAN THIS SHEET FOR CONTINUATION.
13. 2" WASTE PIPING DOWN WALL TO BELOW EXISTING WALL MOUNTED SINK. REMOVE EXISTING WALL MOUNTED SINK AND CONNECT NEW 2" WASTE PIPING TO WASTE STUB WHICH SERVED SINK.
14. 1/2" COPPER CONDENSATE PIPING RISE FROM MANUFACTURER PROVIDED CONDENSATE PUMP TO TERMINATION ON ROOF WITH GOOSNECK. SEAL PIPING PENETRATION AT ROOF PER DETAIL 1/P-100.
15. GAS PIPING CONNECTION AT APPLIANCE, CONNECT EACH APPLIANCE TO MAIN WITH 6" DIRT LEG, SHUTOFF VALVE AND CORRUGATED STAINLESS STEEL TUBE FLEXIBLE CONNECTION.
16. MIRO MODEL 3-R-2, OR EQUAL PIPE SUPPORT, TYPICAL OF ALL.
17. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING GAS PIPING AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS. EXTEND NEW GAS PIPING TO APPLIANCES AS INDICATED.

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1	05-15-23	PLAN REVIEW

Revision

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SAA Project No. 2012-10

Drawing Title

PLUMBING PLANS AND DETAILS

Sheet Number

P-100

SHEET INDEX

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
C/W	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VA/R	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVARS	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	∅	PHASE
MCM	1000 CIRCULAR MILLS		

GENERAL NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
4. SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
11. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
12. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING		
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE	
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT
<70	MIN. #12 AWG	MIN. #12 AWG
70 - 115	MIN. #10 AWG	MIN. #12 AWG
115 - 170	MIN. #8 AWG	MIN. #10 AWG
170 - 270	MIN. #6 AWG	MIN. #8 AWG
271 - 380	NOTE B	MIN. #8 AWG
>380	NOTE B	NOTE B

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.

C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

SYMBOL SCHEDULE

NOTES:

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
9. DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
10. SUBSCRIPT INDICATES NEMA CONFIGURATION.
11. SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
12. COORDINATE WITH DOOR HARDWARE SUPPLIER.
13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
14. ARROWS SHOWN ON DEVICE INDICATE SENSOR AIMING DIRECTION.
15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.

*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
GENERAL			
	ONE CIRCUIT, HOME RUN TO PANEL		
	2 CIRCUIT, HOME RUN TO PANEL		
	3 CIRCUIT, HOME RUN TO PANEL		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CONDUIT / CIRCUIT CONTINUATION		
MULTIPLE SYSTEM SYMBOLS			
R	RECEPTACLE SWITCH PACK	ABOVE CEILING	
	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+18" OR AS NOTED	2. 9.
	SIMPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.
A	DUPLEX RECEPTACLE		9.
G	5mA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE		13.
WP	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.
	FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	+18" OR AS NOTED	2. 9.
LIGHTING			
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.
	LIGHT FIXTURE	AS NOTED	1.
	EGRESS LIGHT FIXTURE	AS NOTED	1.
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	1. SEE DIAGRAM
	BOLLARD	CONCRETE BASE	1.
	STEP LIGHT FIXTURE	AS NOTED	1.
	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.
	FLOOD OR TRACK FIXTURE	AS NOTED	1.
	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.
	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.
TC	TIME CLOCK	+60"	2.
POWER			
IG	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.
T	TAMPER-PROOF RECEPTACLE	+18" OR AS NOTED	2. 9.
U	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS NOTED	2. 9.
	CONTROLLED DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.
	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.
	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2. 10. W/ CAP.
	CORD DROP		SEE DIAGRAM
	CORD REEL		SEE DIAGRAM
	TOMBSTONE RECEPTACLE		
	POWER POLE		
TELECOMMUNICATIONS			
V	WALL PHONE	+60" OR AS NOTED	2.
	DATA OUTLET, ONE CABLE	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, TWO CABLES	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, THREE CABLES	+18" OR AS NOTED	2. 9. 11.
X	DATA OUTLET, "X" INDICATES QUANTITY	+18" OR AS NOTED	2. 9. 11.
	TELEVISION OUTLET	+18" OR AS NOTED	9. 11.
FIRE ALARM			
	BELL	+94"	2.
C	CHIME / STROBE	+94" / CEILING	2.
F	FIRE ALARM MANUAL STATION	+46"	2.
H	FIRE ALARM SIGNAL HORN / STROBE	+94" / CEILING	2.
H CLG	CONCEALED FIRE ALARM HORN / STROBE	CEILING	
H	CONCEALED FIRE ALARM HORN / STROBE WALL	+94"	2.
E	FIRE ALARM SPEAKER / STROBE	+94" / CEILING	2.
E CLG	CONCEALED FIRE ALARM SPEAKER / STROBE	CEILING	
E	CONCEALED FIRE ALARM SPEAKER / STROBE WALL	+94"	2.
S	FIRE ALARM STROBE	+94" / CEILING	2.
S CLG	CONCEALED FIRE ALARM STROBE	CEILING	
S	CONCEALED FIRE ALARM STROBE WALL	+94"	2.
K	FIRE ALARM SPEAKER ONLY	+94" / CEILING	2.
B	FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	+94" / CEILING	2.
ANN	FIRE ALARM ANNUNCIATOR PANEL	+58"	2. SEE DIAGRAM
V	ASPIRATING SMOKE DETECTION SYSTEM	CEILING	MOUNT AS PER MFR
B	BEAM DETECTOR		MOUNT AS PER MFR

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
	CABLE TRAY	AS NOTED	
	GROUND BUS BAR	+18"	6.
X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
X X	EQUIPMENT NUMBER		
X	ARCHITECTURAL ROOM NUMBER		
X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
J F	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	2.
	PUSHBUTTON	+46"	2.
	NON-FUSED DISCONNECT SWITCH	+60"	5. 6.
F	FUSED DISCONNECT SWITCH	+60"	5. 6.
B	BREAKER DISCONNECT SWITCH	+60"	5. 6.
S	SINGLE POLE SWITCH	+46"	2. 4.
S T	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+46"	2.
	MAGNETIC STARTER	+60"	6. 7.
	MAGNETIC STARTER / DISCONNECT COMBINATION	+60"	6. 7.
VFD	VARIABLE FREQUENCY DRIVE	+66"	6.
PP	POWER PACK	ABOVE CEILING	SEE DIAGRAM, SPEC.
RC X	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM, SPEC.
EP	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.
S 3	THREE-WAY SWITCH	+46"	2. 4.
S 4	FOUR-WAY SWITCH	+46"	2. 4.
S K	KEY OPERATED SWITCH	+46"	2. 4.
S P	SWITCH WITH PILOT LIGHT	+46"	2. 4.
S D	VARIABLE INTENSITY SWITCH	+46"	2. 4.
S TM	TIMER SWITCH	+46"	2. 4.
S	MOMENTARY CONTACT SWITCH	+46"	2. 4.
S X	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SPEC.
	DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM, SPEC.
	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SPEC.
P	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	MOUNT AS PER MFR
	DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.
	PLUGMOLD	+46" OR AS NOTED	2. SEE SPEC.
DP	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM, SPEC. 26 2726
CP	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SEE DIAGRAM, SPEC.
	DOORBELL CHIME	+90"	2.
FB	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
PT	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
	PANELBOARD	+72"	6.
	MAIN DISTRIBUTION PANEL		
	TELEPHONE DEMARCATION BOARD		
CLG	EQUIPMENT CEILING RACK	CEILING	
	EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.
	EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.
M	UTILITY METER / CT CABINET	+72"	6.
WAP WAP	WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.
SPL	SPLITTER	ABOVE CEILING	
VIA	VIA	ABOVE CEILING	
BDA	FIBER BDA	ABOVE CEILING	
ANT XX	ANTENNA PS = PUBLIC SAFETY COM = CELLULAR/COMMERCIAL	CEILING	

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
SECURITY			
	IP CAMERA - SEE SCHEDULE	AS NOTED	14. 15.
NVR	NETWORK VIDEO RECORDER		
DC	SECURITY SYSTEM DOOR CONTACT	DOOR JAMB	
DC X	SECURITY SYSTEM GARAGE DOOR CONTACT	+96" OR AS NOTED	17.
DB X	DURESS PUSHBUTTON: T = TRANSMITTER, R = RECEIVER, H = HARDWIRED	AS NOTED	17.
MD MD	INTRUSION MOTION DETECTOR SOLID - WALL MOUNTED, DASHED = CEILING		17.
GB GB	GLASS BREAK DETECTOR SOLID = WALL MOUNTED, DASHED = CEILING		17.
AS AS	ALARM SIREN		17.
PI	INTRUSION SYSTEM POP-IT		17.
KP	INTRUSION SYSTEM KEYPAD (ARM/DISARM)	+46"	2.
INT	INTERCOM STATION	+46"	2.
ML	MAGNETIC LOCK		
AUDIOVISUAL			
HD	HDMI INPUT, WALL PLATE WITH HUBBELL HBL260 JUNCTION BOX, SINGLE GANG MUDRING	+18" OR AS NOTED	2. 9.
HV	HDMI AND VGA INPUT, WALL PLATE WITH HUBBELL HBL260 JUNCTION BOX, DOUBLE GANG MUDRING	+18" OR AS NOTED	2. 9.
TxH	HDBaseT, HDMI INPUT TRANSMITTER, WALL PLATE WITH HUBBELL HBL260 J-BOX, SINGLE GANG MUDRING	+18" OR AS NOTED	2. 9.
TxD	HDBaseT, HDMI AND VGA TRANSMITTER, WALL PLATE WITH HUBBELL HBL260 J-BOX, DOUBLE GANG MUDRING	+18" OR AS NOTED	2. 9.
TxM	HDBaseT, HDMI, DISPLAY PORT AND/OR VGA TRANSMITTER, SURFACE MOUNTED UNDER MILLWORK/FURNITURE	UNDER TABLE	9.
TxT	HDBaseT CATEGORY 6A SF/UTP, WALL PLATE WITH HUBBELL HBL 260 J-BOX, SINGLE GANG MUDRING	+18" OR AS NOTED	2. 9.
RxH	HDBaseT, HDMI INPUT RECEIVER, WALL PLATE WITH HUBBELL HBL260 J-BOX, SINGLE GANG MUDRING	BEHIND DISPLAY	2.
	LOUDSPEAKER, CEILING RECESSED OR PENDANT	CEILING	
SB#	SOUND BAR, REFER TO SPECIFICATIONS FOR TYPE	UNDER DISPLAY	2. 19.
D##	COMMERCIAL GRADE DISPLAY, ## = SIZE (INCHES)	AS NOTED	20.
SC#	PROJECTION SCREEN. REFER TO SPECIFICATIONS / DRAWINGS FOR SCREEN TYPE AND SIZE	WALL OR CEILING	2.
P#	COMMERCIAL GRADE PROJECTOR	WALL OR CEILING	2.
NURSE CALL			
SA	STAFF ASSIST STATION	+46" OR AS NOTED	2. 9.
CB	CODE BLUE STATION WITH FLIP COVER	+46" OR AS NOTED	2. 9.
GI	GRAPHICAL INTERFACE ROOM STATION	+46" OR AS NOTED	2. 9.
	NURSE CALL DOME/ZONE LIGHT	+90" OR AS NOTED	2. 9.
PC	PULL CORD STATION WITH AUDIO	+46" OR AS NOTED	2. 9.
DS	DUTY STATION	+46" OR AS NOTED	2. 9.
RCB	ROOM CONTROL BOARD	+46" OR AS NOTED	2. 9.
MS	MASTER STATION	+46" OR AS NOTED	2. 9.
BC	AUDIO STATION, BED CONNECTOR	+46" OR AS NOTED	2. 9.
PS	PILLOW SPEAKER STATION	+46" OR AS NOTED	2. 9.
ES	ENTERTAINMENT SYSTEM	+46" OR AS NOTED	2. 9.
DH	DOOR HOLD OPEN	AS NOTED	17.
ES	ELECTRIC DOOR STRIKE	DOOR JAMB	12.
DP	DOOR POSITION INTRUSION SWITCH	DOOR JAMB	12.
EL	ELECTRIC DOOR LOCK	DOOR JAMB	12.
RX	ACCESS CONTROL SYSTEM, REQUEST TO EXIT		17.
EC	ELECTRIC CRASH BAR	DOOR HARDWARE	12.
CR	ACCESS CONTROL CARD READER	+46"	2.
BR	ACCESS CONTROL BIOMETRIC READER	+46"	2.
KS	KEY OVERRIDE SWITCH	+46"	2.
ICR	INTEGRATED CARD READER AND LOCK	+46"	2.
KCR	KEYPAD CARD READER COMBO	+46"	2.
X	MOMENTARY PUSH BUTTON. DR = DOOR RELEASE, LD = LOCKDOWN, PTE = PUSH TO EXIT	AS NOTED	9.
R	SECURITY RELAY		

COLOR LEGEND

	LIGHTING FIXTURES		POWER DEVICES		AUDIOVISUAL
	LIGHTING DEVICES		TELECOMMUNICATIONS		SECURITY
	POWER EQUIPMENT		FIRE ALARM		NURSECALL
	CABLE TRAY		CONDUIT		

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TERMINAL REMODEL
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OGDEN, UT 84405

Issued

No.	Date	Description
1	11.17.23	BID DOCUMENTS

Revision

No.	Date	Description

SAA Project No. 22343

Drawing Title
ELECTRICAL SYMBOLS AND NOTES

Sheet Number
E001

EQUIPMENT SCHEDULE

CONNECTION TYPE NOTES:

1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER WITH THERMAL OVERLOAD
5. MAGNETIC STARTER
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/BREAKER COMBINATION
9. VARIABLE FREQUENCY DRIVE
10. REDUCED VOLTAGE STARTER
11. DIRECT CONNECTION
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. TWO-SPEED STARTER. COORDINATE WITH MOTOR TYPE
14. SOLID STATE SOFT-STARTER

RESPONSIBILITY LEGEND:

A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26(16)
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. REQUIRED CONNECTION UNDER DIVISION 26(16)
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26(16)
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION

CB = CIRCUIT BREAKER

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR
NOTE 2: OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTOR NAME PLATE RATING.
NOTE 3: ALL EQUIPMENT TO BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED.

UNIT	#	DESCRIPTION	ELECTRICAL EQUIPMENT INFORMATION								WIRE				OCPD			REMARKS
			LOAD															
			HP	FLA	MCA	VA	VOLTAGE	PHASE	FULL LOAD AMPS	CONDUIT SIZE	SETS	QTY	SIZE	EQ. GROUND	TYPE	AMPS	STARTER/ DISC/VFD OTHER (SEE NOTES)	
AC	1	INDOOR AC SECTION	0.00	1 A	0 A	0 VA	208 V	1	1 A	3/4"	1	2	12	12	CB	15 A	4 A	
ACU	1	AIR CURTAIN	0.00	0 A	19.5 A	0 VA	208 V	1	16 A	3/4"	1	2	12	12	CB	25 A	4 A	
ACU	2	AIR CURTAIN	0.00	0 A	19.5 A	0 VA	208 V	1	16 A	3/4"	1	2	12	12	CB	25 A	4 A	
CU	1	OUTDOOR CU SECTION	0.00	0 A	11 A	0 VA	208 V	1	9 A	3/4"	1	2	12	12	CB	15 A	2 A	
RTU	1	ROOFTOP UNIT	0.00	0 A	14.6 A	0 VA	208 V	3	12 A	3/4"	1	3	12	12	CB	20 A	2 A	

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE — PROJECT MANAGER: RILEY RICHARDS

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

LIGHT FIXTURE GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. 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 DISCREPENCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
5. REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.
6. REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.
7. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
8. PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND 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.
9. REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).
10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.

TYPE	DESCRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI
G22	2' x 2' RECESSED MOUNT LED TROFFER, 0-10V DIMMING	METALUX	BAA-22CZSCT3-UNV	120 V	21 VA	LED	2,979	3500 K	80
G24	2' X 4' FLUSH MOUNT LED TROFFER	METALUX	24CGTS-L3C3	120 V	39 VA	LED	5,500	3500 K	80
RL8	RECESSED LINEAR FIXTURE, 4" WIDE, RECESSED IN GRID	LUMENWERX	VIA4RD-HL0-FH-SW-80-500-35-UNV	120 V	33 VA	LED	4,000	3500 K	80
RL24	RECESSED LINEAR FIXTURE, 4" WIDE, RECESSED IN GRID	LUMENWERX	VIA4RD-HL0-FH-SW-80-350-35-UNV	120 V	68 VA	LED	8,400	3500 K	80
S4	CEILING MOUNTED STRIP LIGHT FOR INDUSTRIAL AREAS	COLUMBIA	LCL-4-35-ML-ED-U	120 V	42 VA	LED	5,329	3500 K	80
X1	SURE-LITES ES SERIES EXIT SIGN, VARIOUS VERSIONS BASED ON APPLICATION ON PLANS	COOPER	ES6-X-S-SCBA-X-X-X	120 V	5 VA	LED			

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3909 AIRPORT ROAD
OGDEN, UT 84405

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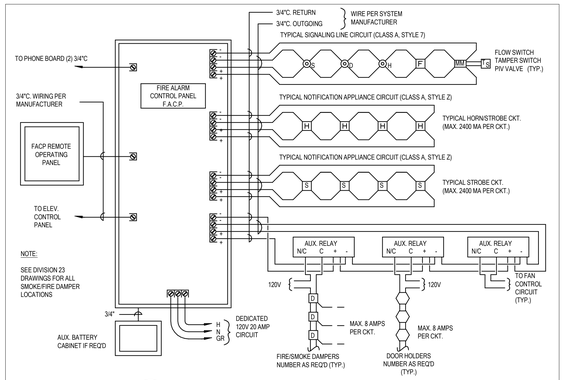
SAA Project No. 22343

Drawing Title
ELECTRICAL SCHEDULES

Sheet Number
E002



1 TYPICAL FIRE ALARM RISER
SCALE = 12" = 1'-0"

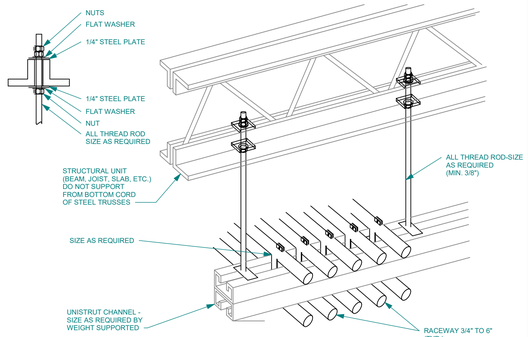


DIAGRAM H001 TYPICAL TRAPEZE CONDUIT RACK
NTS

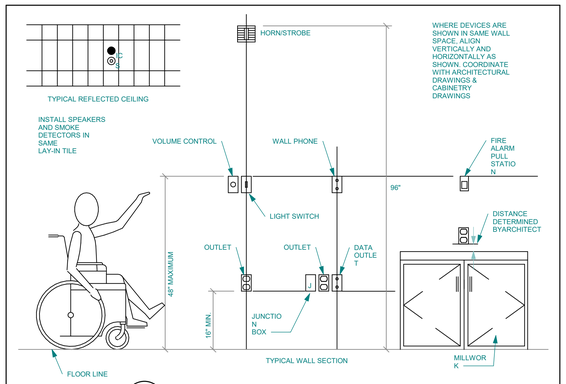


DIAGRAM R001 DEVICE MOUNTING HEIGHTS
NTS

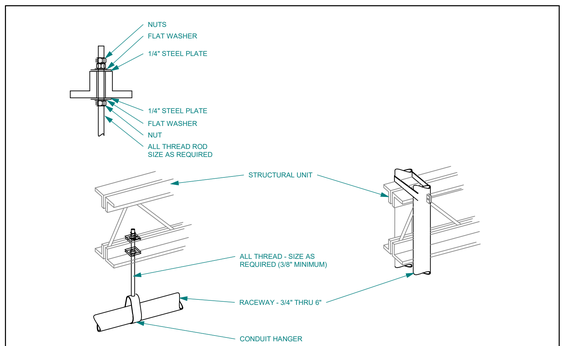


DIAGRAM H003 TYPICAL RACEWAY SUPPORT METHODS
NTS

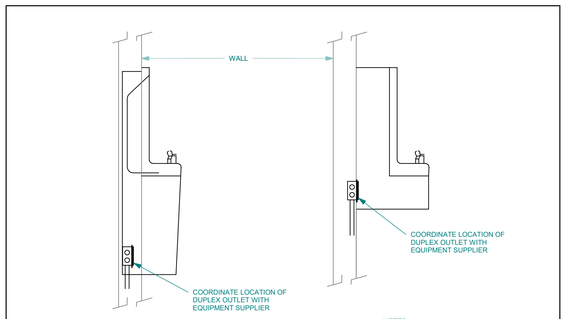


DIAGRAM R002 ELECTRIC WATER COOLER (EWC)
NTS

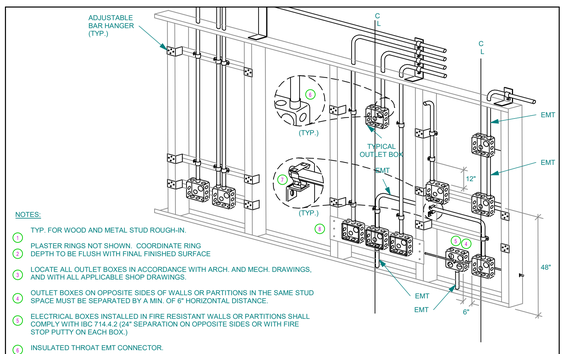


DIAGRAM H004 TYPICAL ROUGH IN REQUIREMENTS
NTS

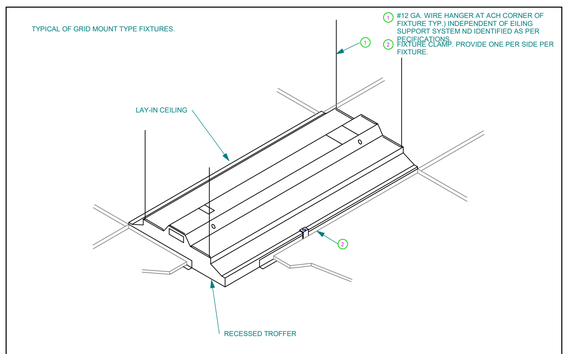


DIAGRAM A001 TYP. RECESSED FIXTURE MOUNTING
NTS

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Project Name
OGDEN-HINCKLEY AIRPORT
TERMINAL REMODEL
3909 AIRPORT ROAD
OGDEN, UT 84405

Issued

No.	Date	Description
1	11.17.23	BID DOCUMENTS

Revision

No.	Date	Description

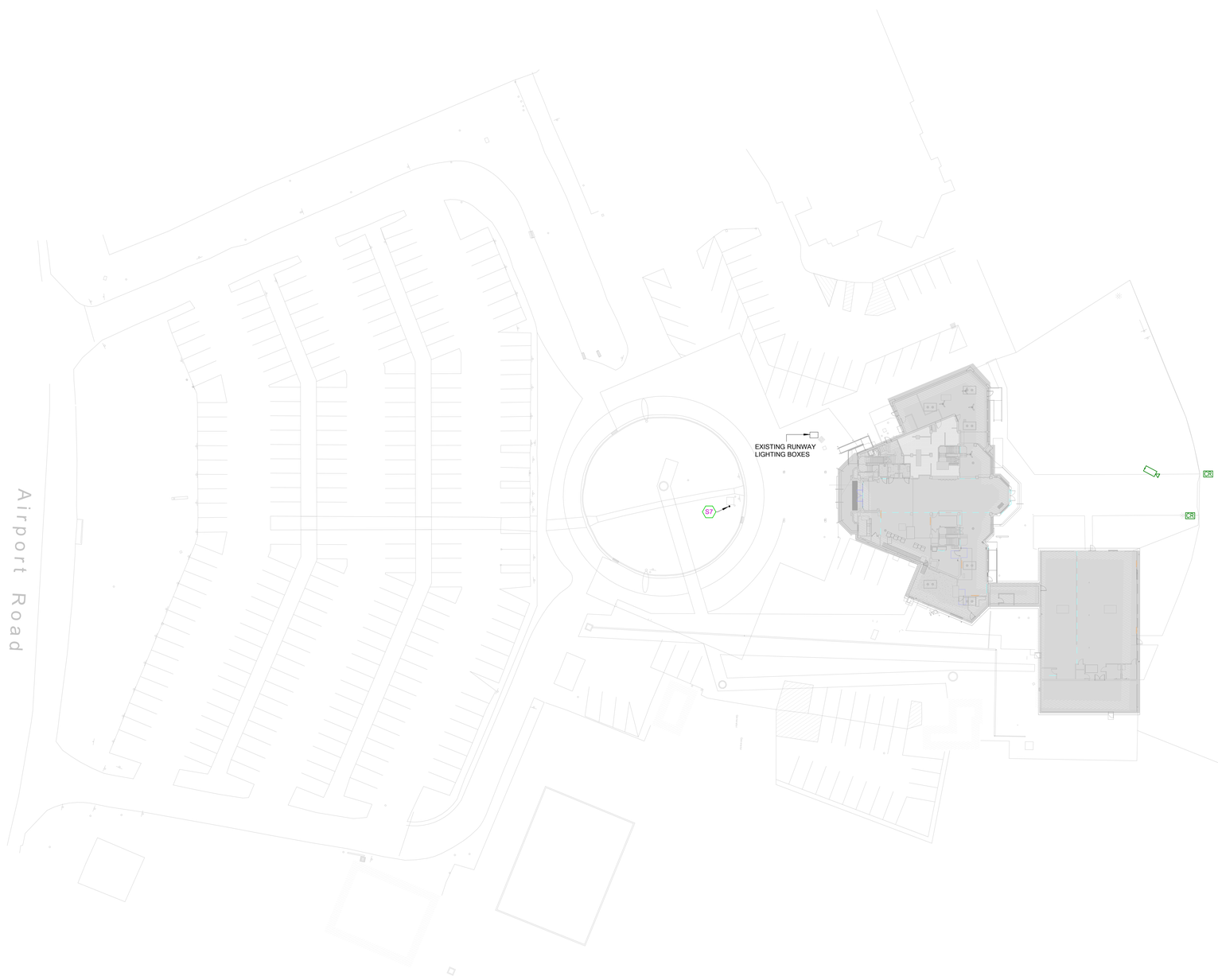
SAA Project No. 22343

Drawing Title
ELECTRICAL DIAGRAMS

Sheet Number
E060

SHEET KEYNOTES

S7	EXISTING TELECOM VAULT.



ELECTRICAL SITE PLAN
SCALE = 1" = 30'-0"

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SAA Project No. 22343

Drawing Title

ELECTRICAL SITE PLAN

Sheet Number

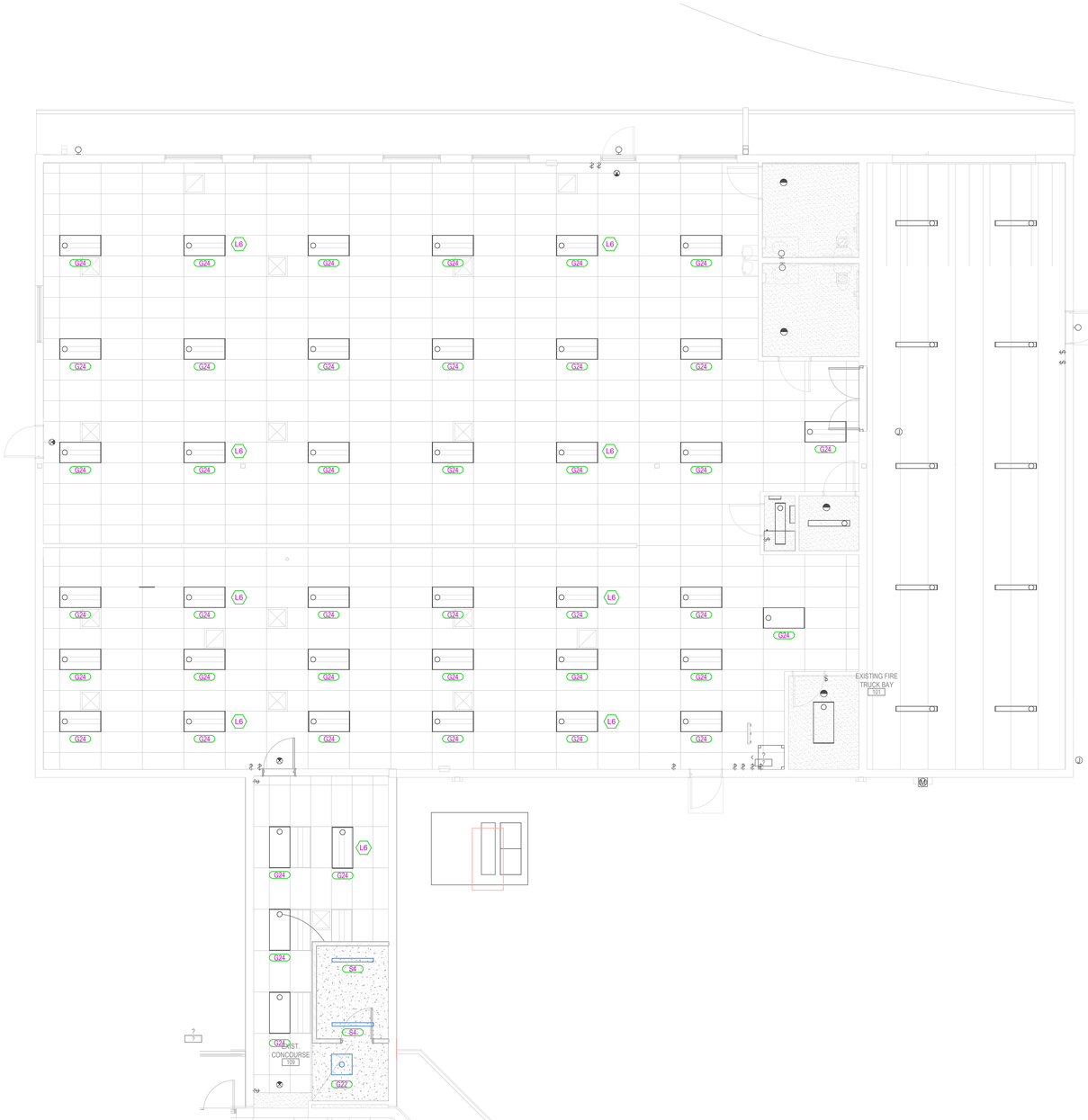
E104

LIGHTING GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COORDINATE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY.
2. FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
3. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
4. ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
5. ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. ALL UNDERCABINET LIGHTS SHALL BE COORDINATED WITH MILLWORK SHOP DRAWINGS.
6. PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.
7. SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DAYLIGHT ZONES AS REQUIRED.

SHEET KEYNOTES

L6 PROVIDE REPLACEMENT LIGHT FIXTURES WITH NEW LED VERSION, A 1 TO 1 REPLACEMENT. MAINTAIN EXISTING CIRCUITING AND WIRING.



LEVEL 1 - LIGHTING PLAN - AREA A
SCALE = 3/16" = 1'-0"

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Revision

No.	Date	Description

SAA Project No. 22343

Drawing Title
LEVEL 1 - LIGHTING PLAN - AREA A

Sheet Number
E201A

LIGHTING GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COORDINATE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY.
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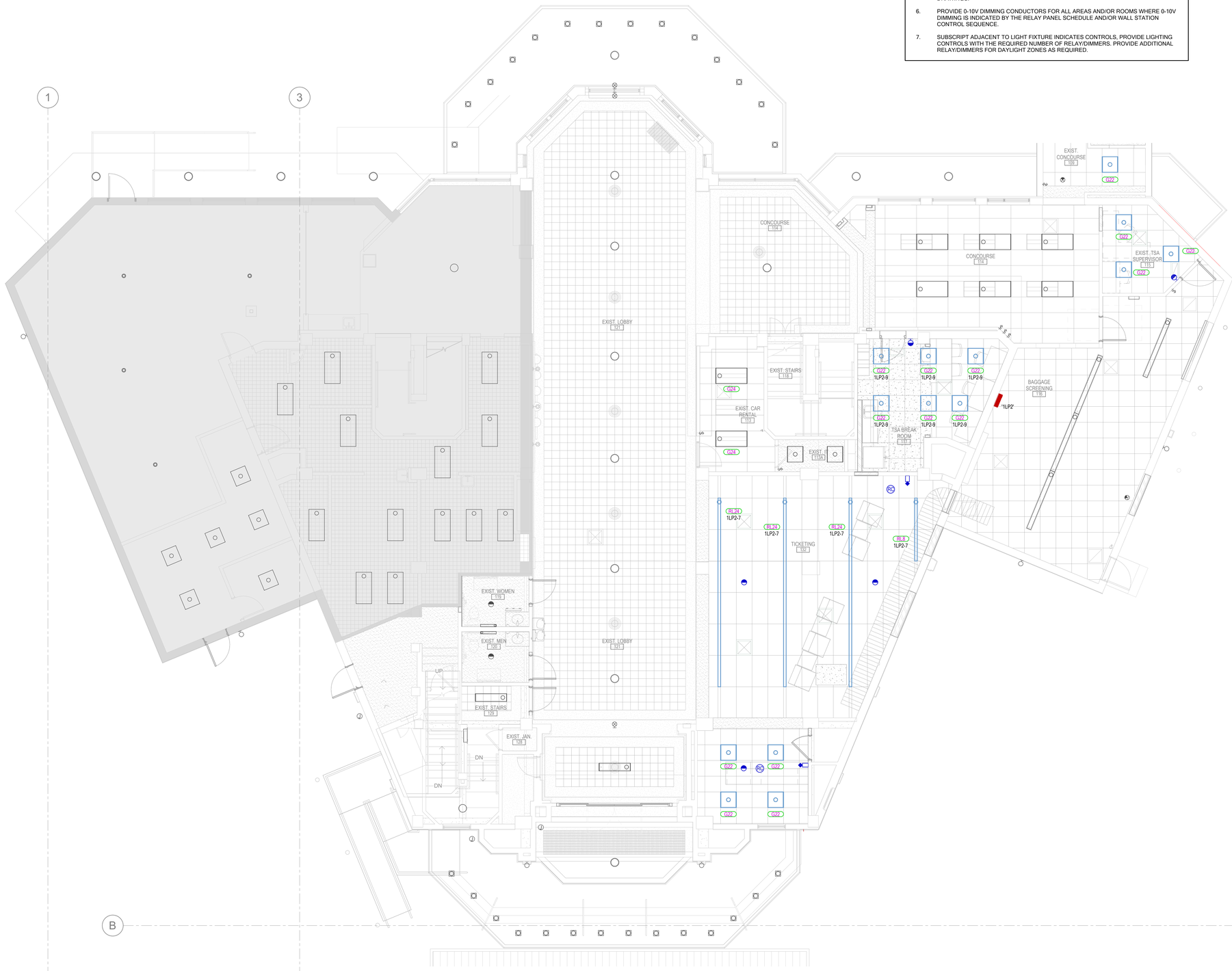
7. SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DAYLIGHT ZONES AS REQUIRED.

SHEET KEYNOTES



LEVEL 1 - LIGHTING RCP PLAN - AREA B

SCALE = 3/16" = 1'-0"

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TERMINAL REMODEL

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1	11.17.23	BID DOCUMENTS

Revision

No.	Date	Description

SAA Project No. 22343

Drawing Title

LEVEL 1 - LIGHTING PLAN - AREA B

Sheet Number

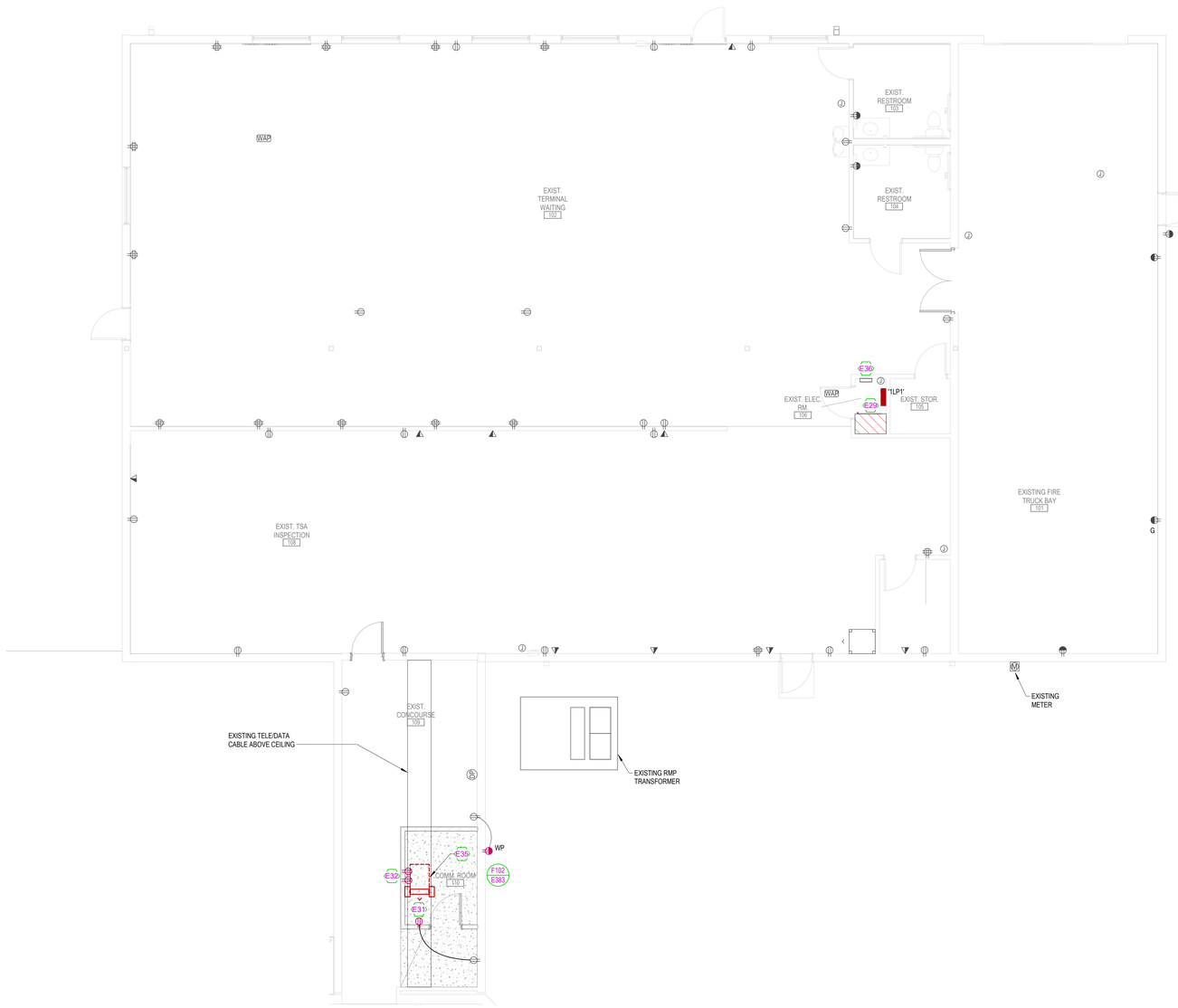
E201B

POWER GENERAL SHEET NOTES

1. CONFIRM DATA WIRING WITH DATA RISER DIAGRAM ON SHEET E383. EACH AREA OF THE AIRPORT WILL ROUTE TO A DIFFERENT DATA RACK. CONFIRM ALL CAT-6 RUNS WITH DATA RISER DIAGRAM. IN AREA B, ALL DATA WILL RUN TO THE EXISTING BASEMENT IT ROOM. REFER TO SYSTEMS SHEET E400B FOR LOCATION.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
3. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
4. FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. PROVIDE 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.

SHEET KEYNOTES

E29	EXISTING EMERGENCY TRANSFER SWITCH TO REMAIN.
E31	TIE IN TO INDICATED EXISTING POWER CIRCUIT.
E32	PROVIDE POWER FOR DATA RACK FROM TWO DEDICATED CIRCUITS IN EXISTING EMERGENCY PANEL.
E35	ROLL ALL EXISTING CABLE FROM ABOVE CEILING INTO THE NEW TELECOM RACK. TERMINATE ALL EXISTING CABLE AND RETEST.
E36	PROVIDE NEW POWER SUPPLY FOR ACESS CONTROL SYSTEM.



LEVEL 1 - POWER PLAN - AREA A
SCALE = 3/16" = 1'-0"

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No.	Date	Description

SAA Project No. 22343

Drawing Title
LEVEL 1 - POWER PLAN - AREA A

Sheet Number
E301A

POWER GENERAL SHEET NOTES

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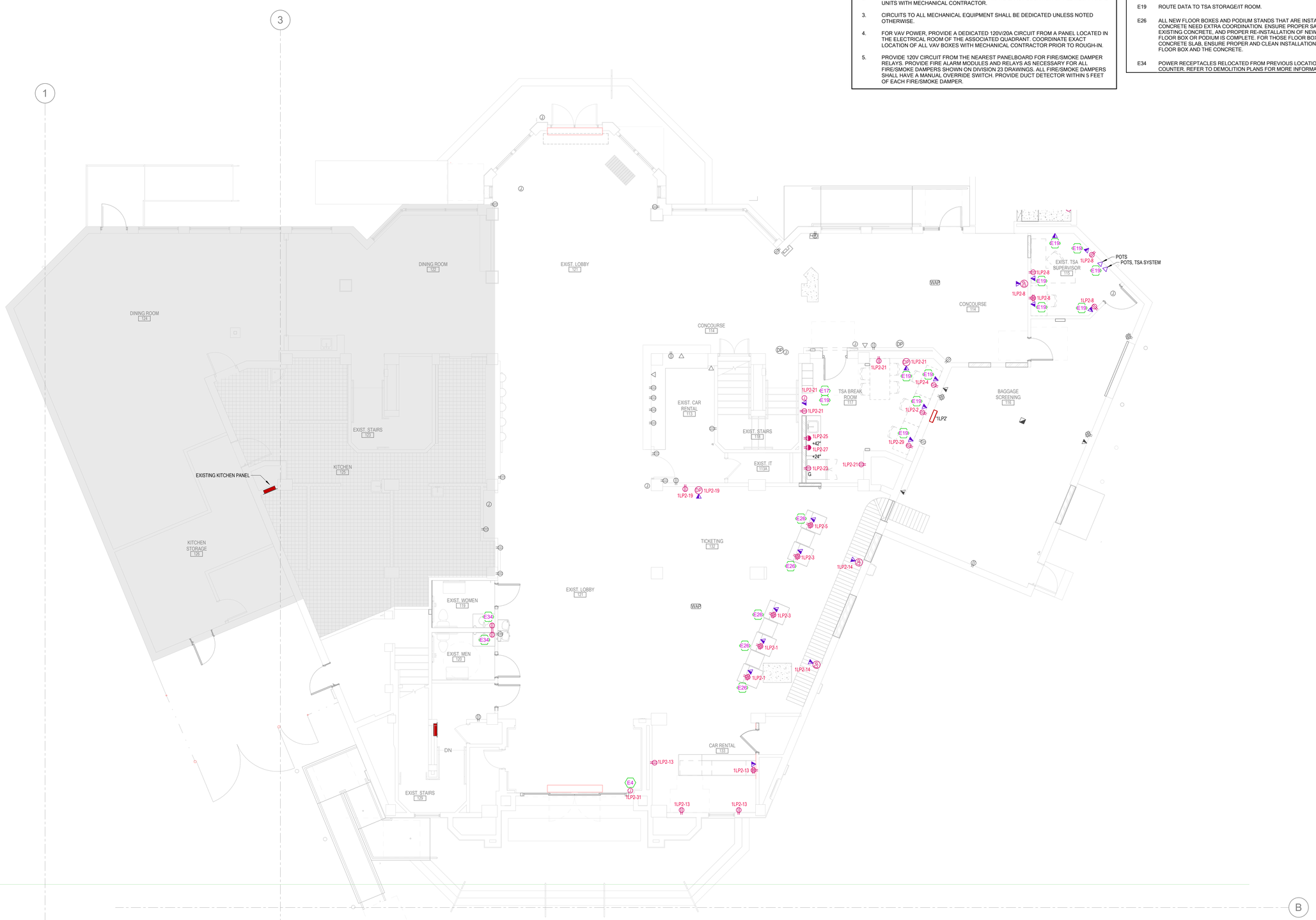
SHEET KEYNOTES

E4	PROVIDE POWER FOR AUTOMATIC SLIDING DOORS. CONNECTED TO THE ACCESS CONTROL SYSTEM WITH A TIMER AND MONITORING FUNCTION. 120V 5A SERVICE TO OPERATORS. OPERATORS 1/4 HP MINIMUM.
E17	PROVIDE POWER FOR KRONOS 9100 WALL MOUNT TIME CLOCK. MOUNT 50" INCHES ABOVE FINISHED FLOOR.
E19	ROUTE DATA TO TSA STORAGE/IT ROOM.
E26	ALL NEW FLOOR BOXES AND PODIUM STANDS THAT ARE INSTALLED IN EXISTING CONCRETE NEED EXTRA COORDINATION. ENSURE PROPER SAW CUTTING FOR THE EXISTING CONCRETE, AND PROPER RE-INSTALLATION OF NEW CONCRETE AFTER THE FLOOR BOX OR PODIUM IS COMPLETE. FOR THOSE FLOOR BOXES INSTALLED IN NEW CONCRETE SLAB, ENSURE PROPER AND CLEAN INSTALLATION TO AVOID GAPS BETWEEN FLOOR BOX AND THE CONCRETE.
E34	POWER RECEPTACLES RELOCATED FROM PREVIOUS LOCATION ABOVE BATHROOM COUNTER. REFER TO DEMOLITION PLANS FOR MORE INFORMATION.



LEVEL 1 - POWER PLAN - AREA B
SCALE = 3/16" = 1'-0"

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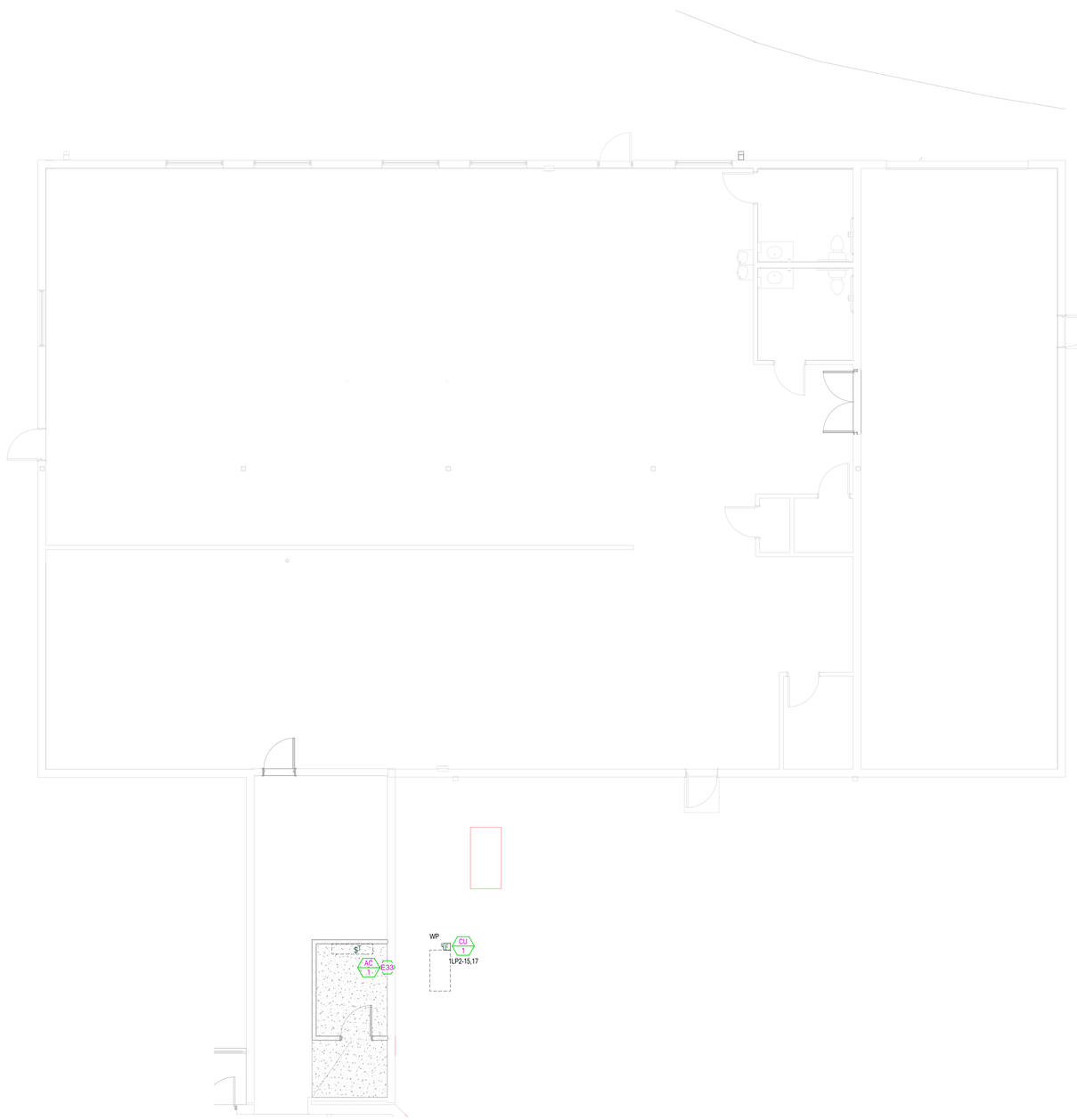
Drawing Title
LEVEL 1 - POWER PLAN - AREA B

Sheet Number
E301B

SHEET KEYNOTES

E33	INDOOR UNIT IS POWERERED BY ASSOCIATED OUTDOOR UNIT.



LEVEL 1 - MECHANICAL PLAN - AREA A

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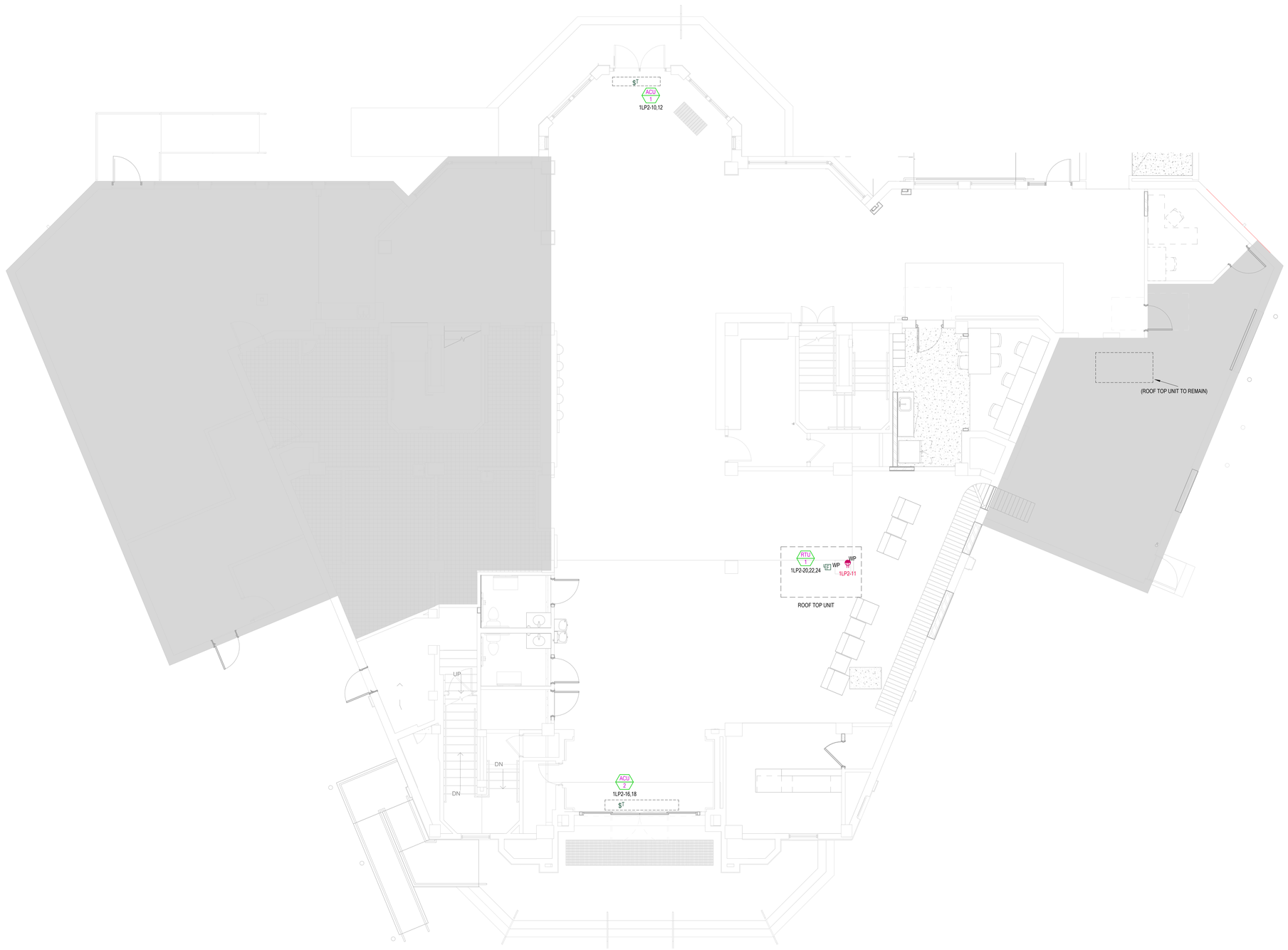
Drawing Title

LEVEL 1 - MECHANICAL PLAN - AREA A

Sheet Number

E311A

SHEET KEYNOTES



LEVEL 1 - MECHANICAL PLAN - AREA B

SCALE = 3/16" = 1'-0"

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Drawing Title

LEVEL 1 - MECHANICAL PLAN - AREA B

Sheet Number

E311B

PANELBOARD SCHEDULE

PANEL: 1LP2 **TYPE:** Type 1 **VOLTS:** 120/208 Y **PHASE:** 3 **WIRES:** 4

MOUNTING: SURFACE **LOCATION:** BAGGAGE SCREENING 116 **MAINS:** MLO

BUSSING: ALUMINUM **FED FROM:** 1LP1 ___ SUBFEED LUGS

AMP: 100 A ___ DOOR-IN-DOOR

___ ISO GROUND

___ 200% NEUTRAL

___ SPD

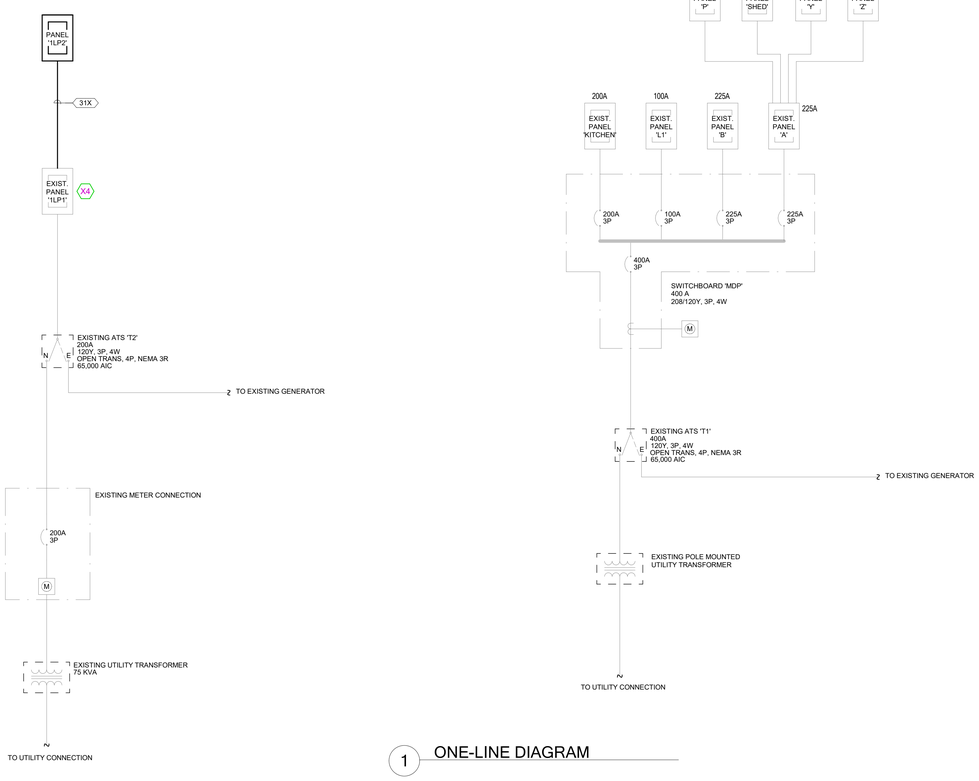
BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
RECEPT Space 161	20 A	1	12	1	360			180			2	12	1	20 A	RECEPT Space 167
RECEPT Space 161	20 A	1	12	3		360			180		4	12	1	20 A	RECEPT Space 167
RECEPT Space 161	20 A	1	12	5			180			180	6	12	1	20 A	RECEPT Space 166
TICKETING	20 A	1	12	7	236			720			8	12	1	20 A	RECEPT Space 218
Other Space 167	20 A	1	12	9		124			1622		10	12	2	25 A	ACU-1
ROOF TOP UNIT 3 RECEPT	20 A	1	12	11			120			1622	12	--	--	--	--
RECEPT Space 160	20 A	1	12	13	720			0			14	12	1	20 A	TICKETING 132
CU-1	15 A	2	12	15		915			1622		16	12	2	25 A	ACU-2
--	--	--	--	17			915			1622	18	--	--	--	--
RECEPT Space 161	20 A	1	12	19	180			1403			20	4	3	20 A	RTU-1
RECEPT Space 161	20 A	1	12	21		540			1403		22	--	--	--	--
*REFRIGERATOR	20 A	1	12	23			1500			1403	24	--	--	--	--
RECEPT Space 167	20 A	1	12	25	180						26				
*RECEPT Space 167	20 A	1	12	27		180					28				
RECEPT Space 167	20 A	1	12	29			180				30				
POWER EXIST. LOBBY 121	20 A	1		31	0						32				
SPARE	20 A	1	--	33		0			0		34	--	1	20 A	SPARE
SPARE	20 A	1	--	35			0			0	36	--	1	20 A	SPARE
SPARE	20 A	1	--	37	0			0			38	--	1	20 A	SPARE
SPARE	20 A	1	--	39		0			0		40	--	1	20 A	SPARE
SPARE	20 A	1	--	41			0			0	42	--	1	20 A	SPARE
					3979	6946	7723	TOTAL (VA)							CONNECTED LOAD TOTAL
					33 A	62 A	68 A	AMPS/PHASE							18648 VA

AIC RATING 16,000 **AMPS RMS SYSM.**

NOTES:

* PROVIDE 5mA GFCI CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER



1 ONE-LINE DIAGRAM

ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY

TRANS KVA	O.C. PROT.	TYPE COND.*	GEC (1)	MIN. Z%
30	50	36	8 CU	3
45	70	34	4 CU	3
75	125	32X	2 CU	3
112.5	175	34X	2 CU	4
150	300	350	2/0 CU	4
225	400	375	2/0 CU	4
300	600	350-2	3/0 CU	5
500	800	340-3	3/0 CU	5
750	1200	350-4	3/0 CU	5

ALUMINUM XHHW-2 CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY

△ 480-208/120 Y

O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDUCTOR (3) QUAN.	CONDUCTOR (3) SIZE	CONDUIT SIZE	BONDING JUMPER (2)
100	T41X-1	120	1	4	1/0	2"	8 CU
175	T44X-1	180	1	4	4/0	2-1/2"	4 CU
225	T435-1	250	1	4	350	3"	1/0 AL
400	T425-2	410	2	4	250	3"	1/0 AL
600	T450-2	620	2	4	500	4"	4/0 AL
800	T440-3	810	3	4	400	4"	4/0 AL
1200	T450-4	1240	4	4	500	4"	250 AL
1600	T440-6	1620	6	4	400	4"	300 AL
3000	T450-10	3100	10	4	500	4"	750 AL

ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY

TRANS KVA	O.C. PROT.	TYPE COND.*	GEC (1)	MIN. Z%
30	50	36	6 CU	3
45	70	34	2 CU	3
75	125	32X	2 CU	3
112.5	175	34X	1/0 CU	4
150	300	350	2/0 CU	4
225	400	375	2/0 CU	4
300	600	350-2	3/0 CU	5
500	800	340-3	3/0 CU	5
750	1200	350-4	3/0 CU	5

ALUMINUM XHHW-2 CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY (200% NEUTRAL)

△ 480-208/120 Y

O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDUCTOR (3) QUAN.	CONDUCTOR (3) SIZE	CONDUIT SIZE	BONDING JUMPER (2)
100	T52X-1	108	1	5	2/0	2-1/2"	6 CU
175	T530-1	184	1	5	300	3"	1/0 AL
225	T550-1	248	1	5	500	4"	1/0 AL
400	T535-2	400	2	5	350	3"	3/0 AL
600	T535-3	600	3	5	350	4"	4/0 AL
800	T535-4	800	4	5	350	4"	4/0 AL
1200	T550-5	1240	5	5	500	4"	350 AL
1600	T550-7	1736	7	5	500	4"	500 AL
3000	T575-10	3080	10	5	750	4"	750 AL

* SEE SCHEDULE FOR CONDUIT AND WIRE SIZE

NOTES:

(1) GROUNDING ELECTRODE CONDUCTOR. (NEC 250.66)

(2) SUPPLY SIDE BONDING JUMPER. (NEC 250.102 (C)(1))

(3) XHHW INSULATION.

SHEET KEYNOTES

X4 PROVIDE 100A BREAKER IN EXISTING PANEL 1LP1 TO FEED NEW PANEL 1LP2.

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE

TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUCTOR SIZE	INSULATION	EQ. GND. COND.(AL)
31X	120	2"	3	1/0	XHHW-2	4
41X	120	2"	4	1/0	XHHW-2	4
51X	96	2"	5*	1/0	XHHW-2	4
32X	135	2"	3	2/0	XHHW-2	4
42X	135	2"	4	2/0	XHHW-2	4
52X	108	2"	5*	2/0	XHHW-2	4
33X	155	2"	3	3/0	XHHW-2	4
43X	155	2"	4	3/0	XHHW-2	4
53X	124	3"	5*	3/0	XHHW-2	4
34X	180	2"	3	4/0	XHHW-2	4
44X	180	3"	4	4/0	XHHW-2	4
54X	144	3"	5*	4/0	XHHW-2	2
325	205	2"	3	250	XHHW-2	2
425	205	3"	4	250	XHHW-2	2
525	164	3"	5*	250	XHHW-2	2
330	230	3"	3	300	XHHW-2	2
430	230	3"	4	300	XHHW-2	2
530	184	3"	5*	300	XHHW-2	2
335	250	3"	3	350	XHHW-2	2
435	250	3"	4	350	XHHW-2	2
535	200	3"	5*	350	XHHW-2	2
340	270	3"	3	400	XHHW-2	2
440	270	3"	4	400	XHHW-2	2
540	216	3"	5*	400	XHHW-2	2
350	310	4"	3	500	XHHW-2	1
450	310	4"	4	500	XHHW-2	1
550	248	4"	5*	500	XHHW-2	1
375	385	4"	3	750	XHHW-2	1
475	385	4"	4	750	XHHW-2	1
575	308	4"	5*	750	XHHW-2	1

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS

TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	CONDUIT SIZE	EQ. GND. COND.(AL)
325-2	400	410	2	3	250	2-1/2"	2/0
425-2	400	410	2	4	250	2-1/2"	2/0
535-2	400	400	2	5*	350	3"	2/0
350-2	600	620	2	3	500	3"	2/0
450-2	600	620	2	4	500	3"	2/0
535-3	600	600	3	5*	350	3"	2/0
340-3	800	810	3	3	400	2-1/2"	3/0
440-3	800	810	3	4	400	3"	3/0
535-4	800	800	4	5*	350	4"	3/0
375-3	1000	1155	3	3	750	4"	4/0
475-3	1000	1155	3	4	750	4"	4/0
535-5	1000	1000	5	5*	350	4"	4/0
350-4	1200	1240	4	3	500	4"	250
450-4	1200	1240	4	4	500	4"	250
550-5	1200	1240	5	5*	500	4"	250
340-6	1600	1620	6	3	400	4"	350
440-6	1600	1620	6	4	400	4"	350
550-7	1600	1736	7	5*	500	4"	350
475-6	2000	2310	6	4	750	4"	400
475-7	2500	2695	7	4	750	5"	600
475-8	3000	3080	8	4	750	5"	600
475-11	4000	4235	11	4	750	5"	750

NOTES:
IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.

GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS

* 200% NEUTRAL, DERATED TO 80% BASED ON NEC 310.15.B(5)(C)

** COPPER CONDUCTOR (XHHW)

PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.

PROVIDE TERMINATION FOR ALUMINUM ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY, LISTED UNDER UL 486-B, MARKED "AL7CU" FOR 75 DEGREE RATED CIRCUITS.

PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS. COORDINATE WITH EQUIPMENT SUPPLIER.

COPPER CONDUCTOR & CONDUIT SCHEDULE

TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUCTOR SIZE	INSULATION	EQ. GND. COND.(CU)
20	30	3/4"	2	10	THHN THWN	10
30	30	3/4"	3	10	THHN THWN	10
40	30	3/4"	4	10	THHN THWN	10
28	40	1"	2	8	THHN THWN	10
38	40	1"	3	8	THHN THWN	10
48	40	1"	4	8	THHN THWN	10
26	55	1"	2	6	THHN THWN	8
36	55	1"	3	6	THHN THWN	8
46	55	1"	4	6	THHN THWN	8
24	70	1"	2	4	THHN THWN	8
34	70	1-1/4"	3	4	THHN THWN	8
44	70	1-1/4"	4	4	THHN THWN	8
23	85	1-1/4"	2	3	THHN THWN	8
33	85	1-1/4"	3	3	THHN THWN	8
43	85	1-1/2"	4	3	THHN THWN	8
32	95	1-1/2"	3	2	THHN THWN	6
42	95	1-1/2"	4	2	THHN THWN	6

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OGDEN-HINCKLEY AIRPORT
TERMINAL REMODEL
3909 AIRPORT ROAD
OGDEN, UT 84405

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No.	Date	Description
1	11.17.23	BID DOCUMENTS

Revision

No.	Date	Description

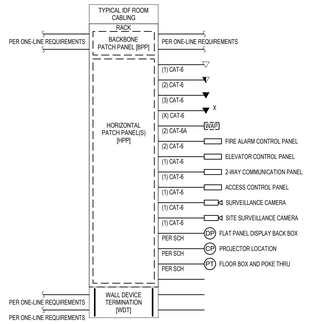
SAA Project No. 22343

Drawing Title

ONE-LINE DIAGRAM

Sheet Number

E380



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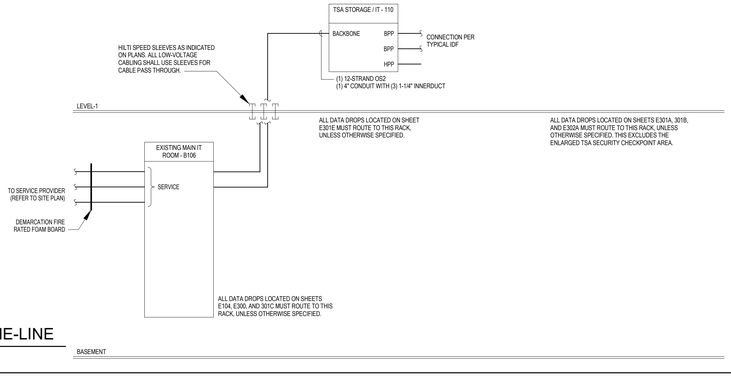

DIAGRAM F102 HORIZONTAL CABLING ONE-LINE

NTS

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SAA Project No. 22343

Drawing Title

DATA RISER DIAGRAM

Sheet Number

E383

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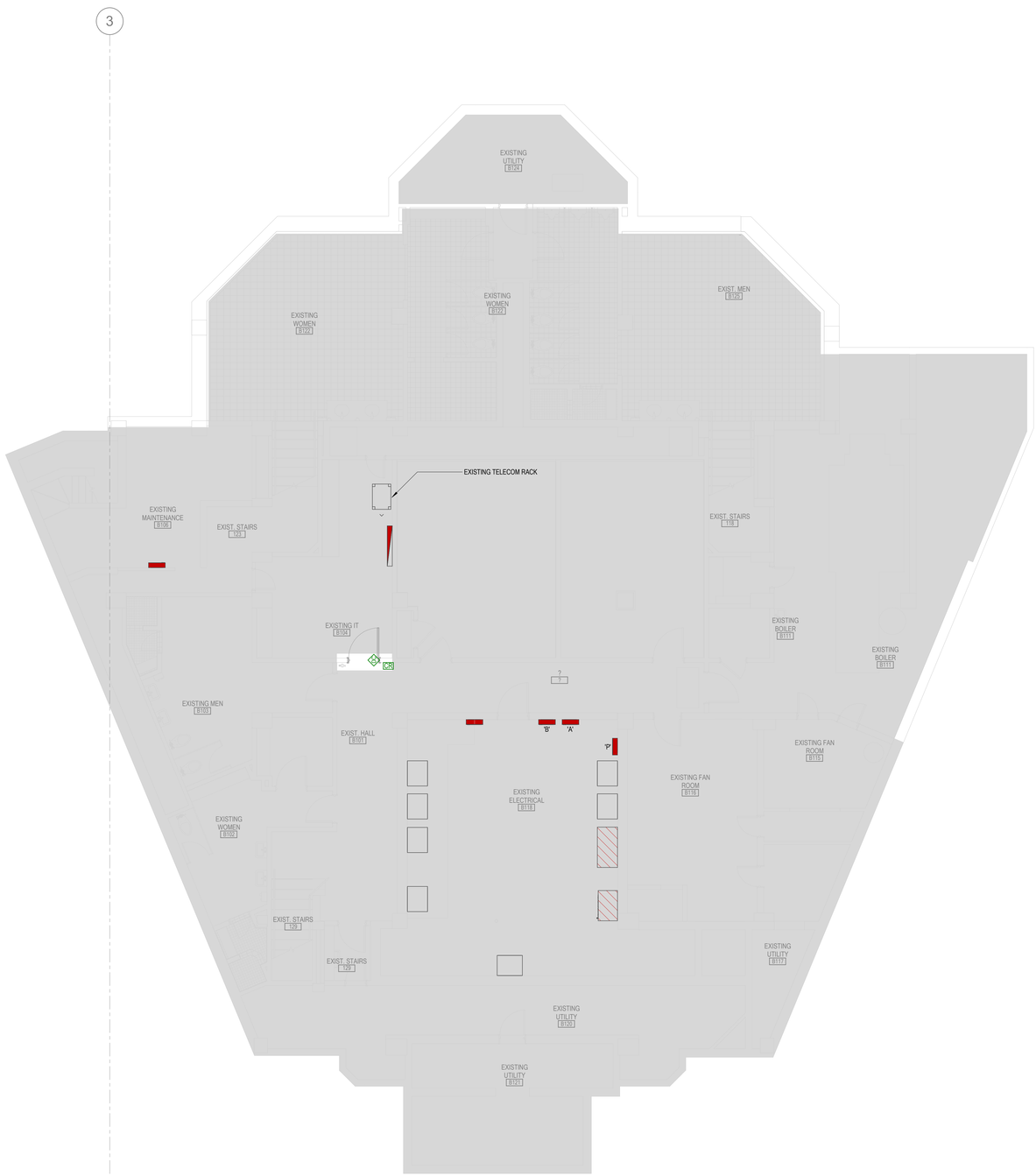

BASEMENT SYSTEMS PLAN
SCALE = 3/16" = 1'-0"

FIRE ALARM GENERAL NOTES

1. CONNECT ELEVATOR LOBBY SMOKE DETECTORS TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. PROVIDE SHUNT TRIP DEVICE AT DISCONNECT FOR ALL ELEVATOR CONTROLLERS. PROVIDE A HEAT DETECTOR AT THE TOP OF ELEVATOR SHAFT AND ADJACENT TO EACH SPRINKLER HEAD IN ALL ELEVATOR MACHINE ROOMS. ACTIVATION OF HEAT DETECTOR TO INITIATE SHUNT-TRIP.
2. PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
3. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH OWNER'S REP PRIOR TO INSTALLATION. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO LACK OF COORDINATION WITH THE OWNER'S REP.
4. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP WALLS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT QUANTITY AND LOCATIONS OF ALL FIRE SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES WITH FIRE SPRINKLER DRAWINGS. CONNECT ALL TAMPER AND FLOW SWITCHES TO FIRE ALARM SYSTEM.
6. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. HARD WIRE TO RELAY STARTER.
7. PROVIDE SMOKE AND HEAT DETECTORS WITHIN ELEVATOR MACHINE ROOMS AND ELEVATOR HOST PITS.
8. PROVIDE CONNECTION OF FA SYSTEMS TO ALL MAGNETIC DOOR HOLD-OPEN DEVICES TO AUTOMATICALLY CLOSE DOORS DURING ALARM CONDITIONS.
9. DEVICES INDICATED ON FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW OPEN DOOR REQUIREMENTS.
10. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING REGARDLESS OF PROJECT SCOPE BOUNDARIES.
11. PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
12. PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN COIL UNIT, AHU, SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.
13. FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTORS BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.
14. PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER.

SECURITY GENERAL NOTES

1. PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
2. PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR CAMERAS, APPROPRIATE TO THE LOCATION IN WHICH THEY ARE INSTALLED.
3. PROVIDE ALL CONDUIT UP TO ACCESSIBLE CEILING. SECURITY INTEGRATOR SHALL COORDINATE ALL DOOR HARDWARE WITH DIVISION 8 FOR LOCK TYPES, POWER SUPPLIES, DOOR CONTACT SWITCH, POWER TRANSFER, ETC.
4. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW THE REFLECTED CEILING PLANS AND ARCHITECTURAL ELEVATIONS FOR COMPONENT INSTALLATION.
5. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES TO TEAM.
6. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS/LOCATIONS TO ENSURE IDEAL VIEWS FOR EACH CAMERA.
7. EQUIPMENT COUNTS ARE PROVIDED FOR INFORMATION ONLY AT A CONVENIENCE TO THE CONTRACTOR. IT STILL REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DRAWING QUANTITIES. IF A DISCREPANCY ARISES BETWEEN THE SCHEDULE COUNTS AND THE DRAWING COUNTS, THE HIGHEST QUANTITY SHALL BE INCLUDED IN THE BID.
8. PROVIDE FIRE ALARM INTERFACE TO UNLOCK ALL INDICATED LOCKS UPON ANY FIRE ALARM INITIATION.
9. COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN TO ENSURE A COMPLETE INSTALLATION IS PROVIDED AND CORRECTLY INSTALLED.
10. ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE DOOR/WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. MULLION MOUNT CARD READERS DO NOT REQUIRE BACK BOX.
11. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
12. ALL FINAL CAMERA VIEWS SHALL BE APPROVED BY SECURITY ENGINEER PRIOR TO PROJECT COMPLETION.
13. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
14. REFER TO SPECIFICATIONS FOR INTEGRATION BETWEEN VIDEO MANAGEMENT, ACCESS CONTROL, INTRUSION DETECTION, FIRE ALARM SYSTEMS, ETC.
15. PROVIDE INTERACTIVE MAP ON VMS WITH CAMERA AND ACCESS CONTROL DEVICES.

SECURITY INSTALLATION

1. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT TO EACH CARD READER, DOOR HARDWARE, AND SECURITY CAMERA LOCATION. INSTALLATION OF THESE DEVICES TO BE PROVIDED BY IT CONTRACTOR.

SHEET KEYNOTES

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SAA Project No. 22343

Drawing Title
BASEMENT SYSTEMS PLAN

Sheet Number
E400B

SECURITY INSTALLATION

1. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT TO EACH CARD READER, DOOR HARDWARE, AND SECURITY CAMERA LOCATION. INSTALLATION OF THESE DEVICES TO BE PROVIDED BY IT CONTRACTOR.

SECURITY GENERAL NOTES

1. PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
2. PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR CAMERAS, APPROPRIATE TO THE LOCATION IN WHICH THEY ARE INSTALLED.
3. PROVIDE ALL CONDUIT UP TO ACCESSIBLE CEILING. SECURITY INTEGRATOR SHALL COORDINATE ALL DOOR HARDWARE WITH DIVISION 8 FOR LOCK TYPES, POWER SUPPLIES, DOOR CONTACT SWITCH, POWER TRANSFER, ETC.
4. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW THE REFLECTED CEILING PLANS AND ARCHITECTURAL ELEVATIONS FOR COMPONENT INSTALLATION.
5. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES TO TEAM.
6. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS/LOCATIONS TO ENSURE IDEAL VIEWS FOR EACH CAMERA.
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8. PROVIDE FIRE ALARM INTERFACE TO UNLOCK ALL INDICATED LOCKS UPON ANY FIRE ALARM INITIATION.
9. COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN TO ENSURE A COMPLETE INSTALLATION IS PROVIDED AND CORRECTLY INSTALLED.
10. ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE DOOR/WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. MULLION MOUNT CARD READERS DO NOT REQUIRE BACK BOX.
11. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
12. ALL FINAL CAMERA VIEWS SHALL BE APPROVED BY SECURITY ENGINEER PRIOR TO PROJECT COMPLETION.
13. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
14. REFER TO SPECIFICATIONS FOR INTEGRATION BETWEEN VIDEO MANAGEMENT, ACCESS CONTROL, INTRUSION DETECTION, FIRE ALARM SYSTEMS, ETC.
15. PROVIDE INTERACTIVE MAP ON VMS WITH CAMERA AND ACCESS CONTROL DEVICES.

FIRE ALARM GENERAL NOTES

1. PROVIDE A NEW FIRE ALARM SYSTEM.
2. DEVICES INDICATED ON FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW OPEN DOOR REQUIREMENTS.
3. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING REGARDLESS OF PROJECT SCOPE BOUNDARIES.
4 PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
5 PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN COIL UNIT, AHU, SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.
6 FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTORS BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.
7 PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER. REFER TO DIAGRAM D012 ON SHEET XXXX.

FIRE ALARM GENERAL NOTES

1. CONNECT ELEVATOR LOBBY SMOKE DETECTORS TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. PROVIDE SHUNT TRIP DEVICE AT DISCONNECT FOR ALL ELEVATOR CONTROLLERS. PROVIDE A HEAT DETECTOR AT THE TOP OF ELEVATOR SHAFT AND ADJACENT TO EACH SPRINKLER HEAD IN ALL ELEVATOR MACHINE ROOMS. ACTIVATION OF HEAT DETECTOR TO INITIATE SHUNT-TRIP.
2. PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
3. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH OWNER'S REP PRIOR TO INSTALLATION. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO LACK OF COORDINATION WITH THE OWNER'S REP.
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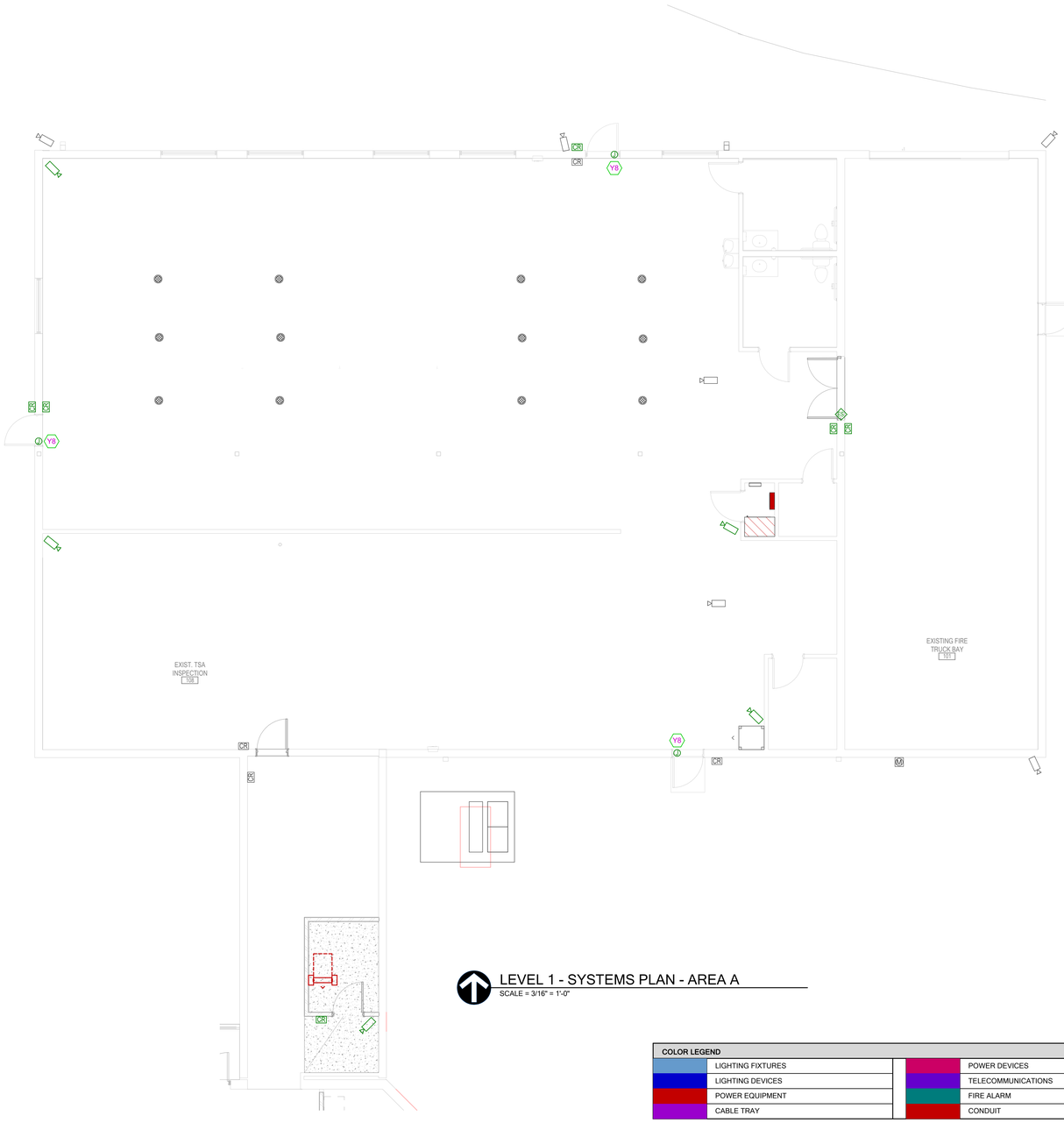
7. PROVIDE SMOKE AND HEAT DETECTORS WITHIN ELEVATOR MACHINE ROOMS AND ELEVATOR HOST PITS.
8. PROVIDE CONNECTION OF FA SYSTEMS TO ALL MAGNETIC DOOR HOLD-OPEN DEVICES TO AUTOMATICALLY CLOSE DOORS DURING ALARM CONDITIONS.

SHEET KEYNOTES

Y8 PROVIDE ALARM DOOR W/S OR ALARM DOOR WO/S. COORDINATE WITH OGDEN CITY IT DEPARTMENT FOR EXACT REQUIREMENTS.



LEVEL 1 - SYSTEMS PLAN - AREA A
SCALE = 3/16" = 1'-0"

COLOR LEGEND					
	LIGHTING FIXTURES		POWER DEVICES		AUDIOVISUAL
	LIGHTING DEVICES		TELECOMMUNICATIONS		SECURITY
	POWER EQUIPMENT		FIRE ALARM		NURSECALL
	CABLE TRAY		CONDUIT		

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SAA Project No. 22343

Drawing Title
LEVEL 1 - SYSTEMS PLAN - AREA A

Sheet Number
E401A

SHEET KEYNOTES

E37	PROVIDE A DUCT DETECTOR FOR NEW RTU UNIT.
Y2	MAINTAIN EXISTING POWER TO THIS EQUIPMENT. IT IS FED FROM A POWER POLE TIED TO POWER IN THE BASEMENT.
Y6	TSA CARD READER. COORDINATE WITH TSA FOR EXACT REQUIREMENTS.
Y8	PROVIDE ALARM DOOR W/S OR ALARM DOOR WO/S. COORDINATE WITH OGDEN CITY IT DEPARTMENT FOR EXACT REQUIREMENTS.

FIRE ALARM GENERAL NOTES

1. CONNECT ELEVATOR LOBBY SMOKE DETECTORS TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. PROVIDE SHUNT TRIP DEVICE AT DISCONNECT FOR ALL ELEVATOR CONTROLLERS. PROVIDE A HEAT DETECTOR AT THE TOP OF ELEVATOR SHAFT AND ADJACENT TO EACH SPRINKLER HEAD IN ALL ELEVATOR MACHINE ROOMS. ACTIVATION OF HEAT DETECTOR TO INITIATE SHUNT-TRIP.
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11. PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
12. PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN COIL UNIT, AHU, SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.
13. FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTORS BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.
14. PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER.

SECURITY GENERAL NOTES

1. PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
2. PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR CAMERAS, APPROPRIATE TO THE LOCATION IN WHICH THEY ARE INSTALLED.
3. PROVIDE ALL CONDUIT UP TO ACCESSIBLE CEILING. SECURITY INTEGRATOR SHALL COORDINATE ALL DOOR HARDWARE WITH DIVISION 8 FOR LOCK TYPES, POWER SUPPLIES, DOOR CONTACT SWITCH, POWER TRANSFER, ETC.
4. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW THE REFLECTED CEILING PLANS AND ARCHITECTURAL ELEVATIONS FOR COMPONENT INSTALLATION.
5. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES TO TEAM.
6. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS/LOCATIONS TO ENSURE IDEAL VIEWS FOR EACH CAMERA.
7. EQUIPMENT COUNTS ARE PROVIDED FOR INFORMATION ONLY AT A CONVENIENCE TO THE CONTRACTOR. IT STILL REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DRAWING QUANTITIES. IF A DISCREPANCY ARISES BETWEEN THE SCHEDULE COUNTS AND THE DRAWING COUNTS, THE HIGHEST QUANTITY SHALL BE INCLUDED IN THE BID.
8. PROVIDE FIRE ALARM INTERFACE TO UNLOCK ALL INDICATED LOCKS UPON ANY FIRE ALARM INITIATION.
9. COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN TO ENSURE A COMPLETE INSTALLATION IS PROVIDED AND CORRECTLY INSTALLED.
10. ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE DOOR/WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. MULLION MOUNT CARD READERS DO NOT REQUIRE BACK BOX.
11. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
12. ALL FINAL CAMERA VIEWS SHALL BE APPROVED BY SECURITY ENGINEER PRIOR TO PROJECT COMPLETION.
13. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
14. REFER TO SPECIFICATIONS FOR INTEGRATION BETWEEN VIDEO MANAGEMENT, ACCESS CONTROL, INTRUSION DETECTION, FIRE ALARM SYSTEMS, ETC.
15. PROVIDE INTERACTIVE MAP ON VMS WITH CAMERA AND ACCESS CONTROL DEVICES.

SECURITY INSTALLATION

1. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT TO EACH CARD READER, DOOR HARDWARE, AND SECURITY CAMERA LOCATION. INSTALLATION OF THESE DEVICES TO BE PROVIDED BY IT CONTRACTOR.

LEVEL 1 - SYSTEMS PLAN - AREA B
SCALE = 3/16" = 1'-0"

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No.	Date	Description
1	11.17.23	BID DOCUMENTS

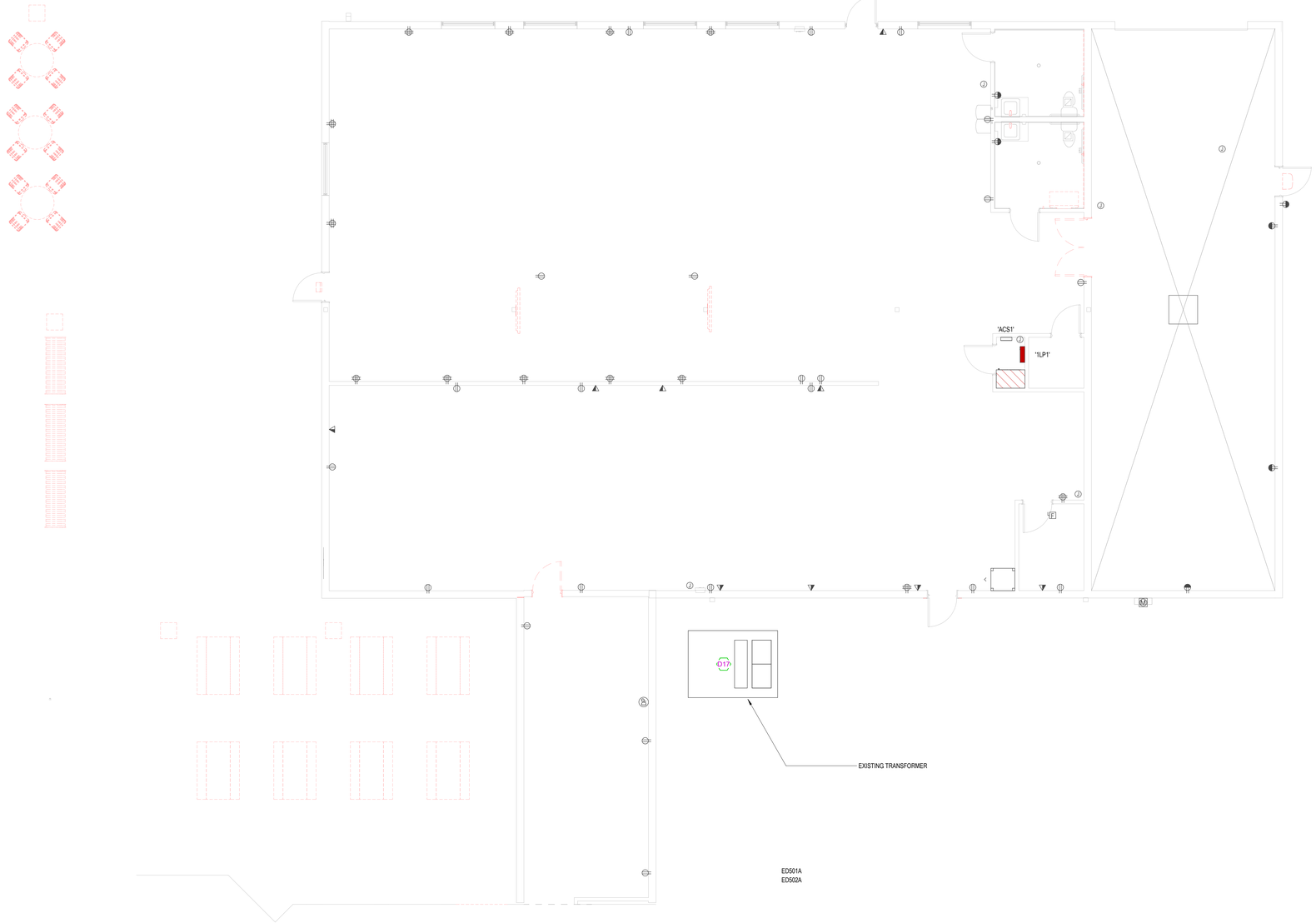
Revision

No.	Date	Description

SAA Project No. 22343

Drawing Title
LEVEL 1 - SYSTEMS PLAN - AREA B

Sheet Number
E401B



LEVEL 1 DEMOLITION PLAN - AREA A
SCALE = 3/16" = 1'-0"

DEMOLITION NOTES

1. SCOPE OF WORK IS DEMONSTRATEDBY ITEMS SHOWN IN RED/DASHED LINE TYPE. REMOVE ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT IN NON-SHADED REGIONS. PLANS DO NOT REFLECT A PERFECT REPRESENTATION OF THE EXISTING DEVICES BUT HAVE BEEN PROVIDED TO SHOW THE MAGNITUDE OF THE SCOPE OF WORK.
2. REMOVE ALL ELECTRICAL CONNECTIONS FOR ALL MECHANICAL EQUIPMENT TO BE DEMOLISHED. COORDINATE ALL WORK WITH MECHANICAL DEMOLITION PLANS.
3. LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
4. REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC BACK TO SERVING PANEL.
5. REMOVE EXISTING LIGHT FIXTURES AND DISPOSE OF THEM.
6. AT THE END OF EACH DAY, VERIFY THAT RUNWAY LIGHTING IS OPERATIONAL PRIOR TO LEAVING FOR THE DAY.
7. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
8. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
9. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
10. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
11. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
12. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.

SHEET KEYNOTES

D17 EXISTING TRANSFORMER AND METER/DISCONNECT TO REMAIN.

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1	11.17.23	BID DOCUMENTS

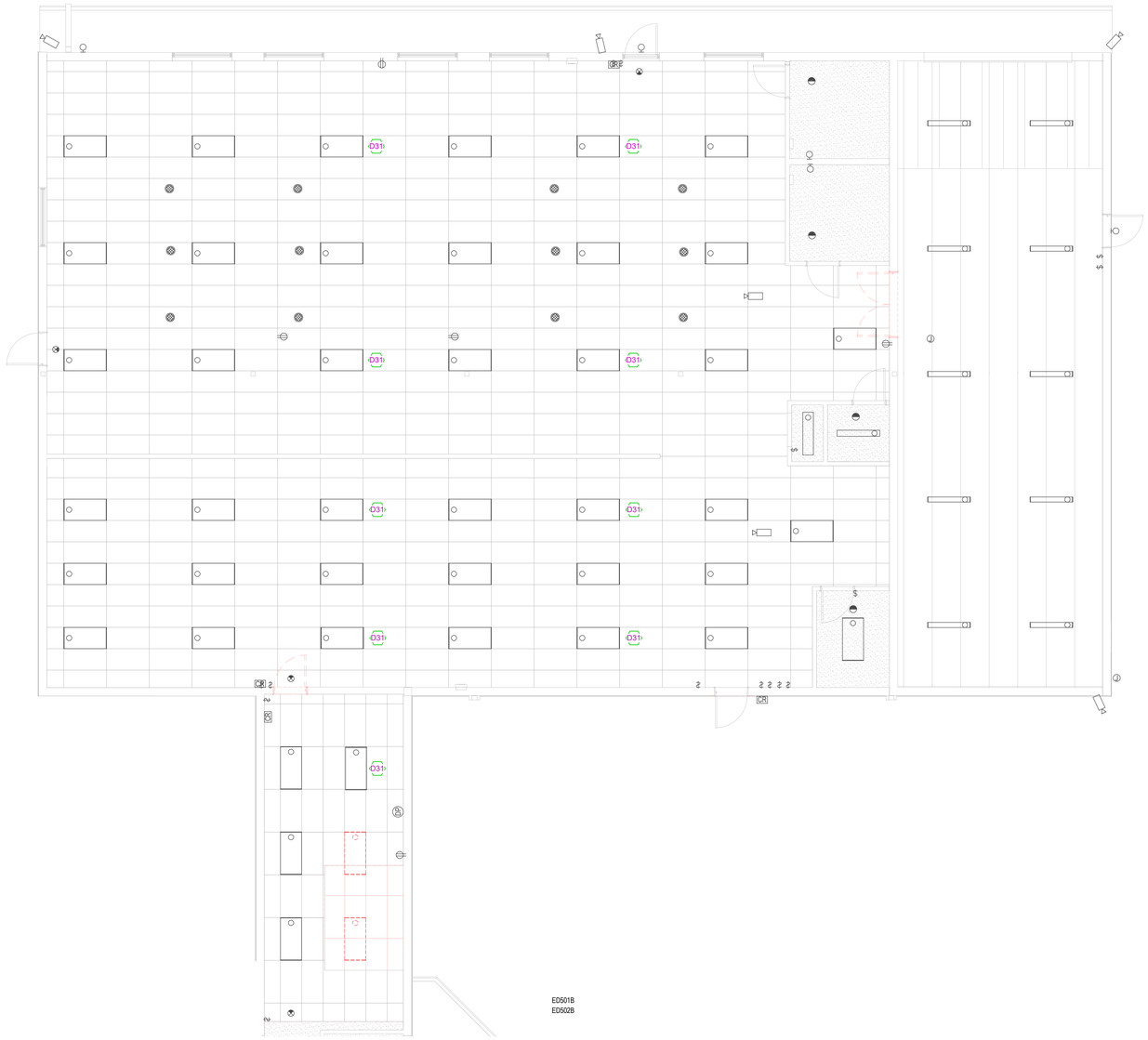
Revision

No.	Date	Description

SAA Project No. 22343

Drawing Title
LEVEL 1 - DEMOLITION PLAN AREA - A

Sheet Number
ED501A



LEVEL 1 DEMOLITION RCP PLAN
AREA - A
SCALE = 3/16" = 1'-0"

DEMOLITION NOTES

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SHEET KEYNOTES

D31	REMOVE EXISTING 2X4 LIGHT FIXTURES IN THIS SPACE. THEY WILL BE REPLACED WITH NEW LED FIXTURES. MAINTAIN EXISTING WIRING AND CIRCUITING.

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Revision

No.	Date	Description

SAA Project No. 22343

Drawing Title
LEVEL 1 - CEILING DEMOLITION PLAN AREA - A

Sheet Number
ED501B

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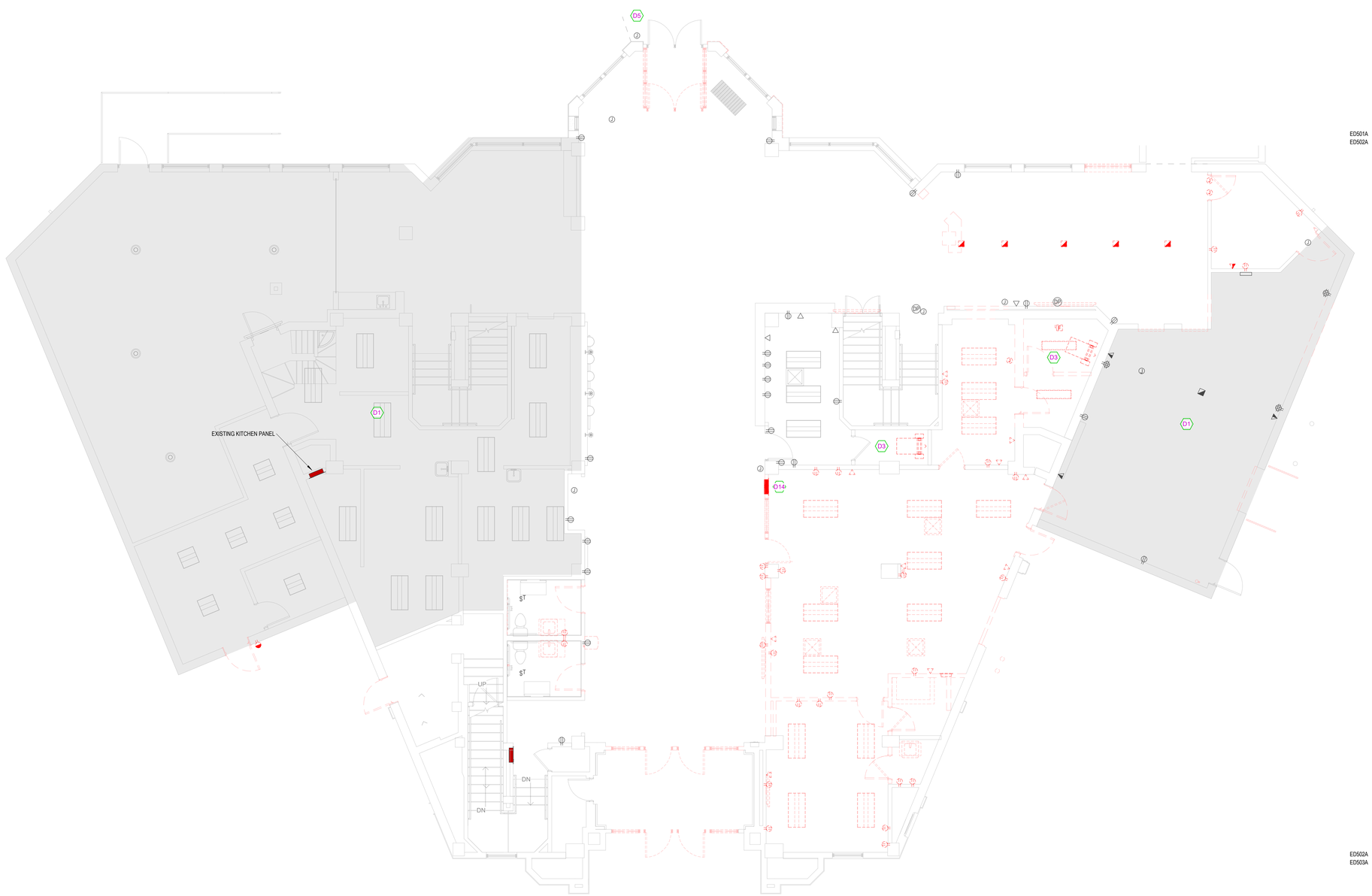

LEVEL 1 DEMOLITION PLAN - AREA B
SCALE = 3/16" = 1'-0"

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SHEET KEYNOTES

D1	EQUIPMENT IN SHADED AREAS TO REMAIN OPERATIONAL. OWNER TO TRACE EXISTING BRANCH CIRCUITS PRIOR TO DEMOLITION OF ANY DEVICES IN THIS AREA TO PREVENT ACCIDENTAL DISCONNECTION.
D3	REMOVE CABINET INCLUDING ALL DATA CABLE/CONDUIT NOT SERVING AREAS IN SHADED REGIONS. ANY DEVICES IN SHADED AREAS SHALL NOT BE REMOVED UNTIL OPTIONAL SOLUTION FOR REFEEDING OF DEVICES IS PROVIDED BY ENGINEER/OWNER.
D5	EXISTING AIR SIREN TO BE REMOVED.
D14	REMOVE EXISTING ELECTRICAL PANEL, INCLUDING ALL CABLE/CONDUIT BACK TO SERVING PANEL.

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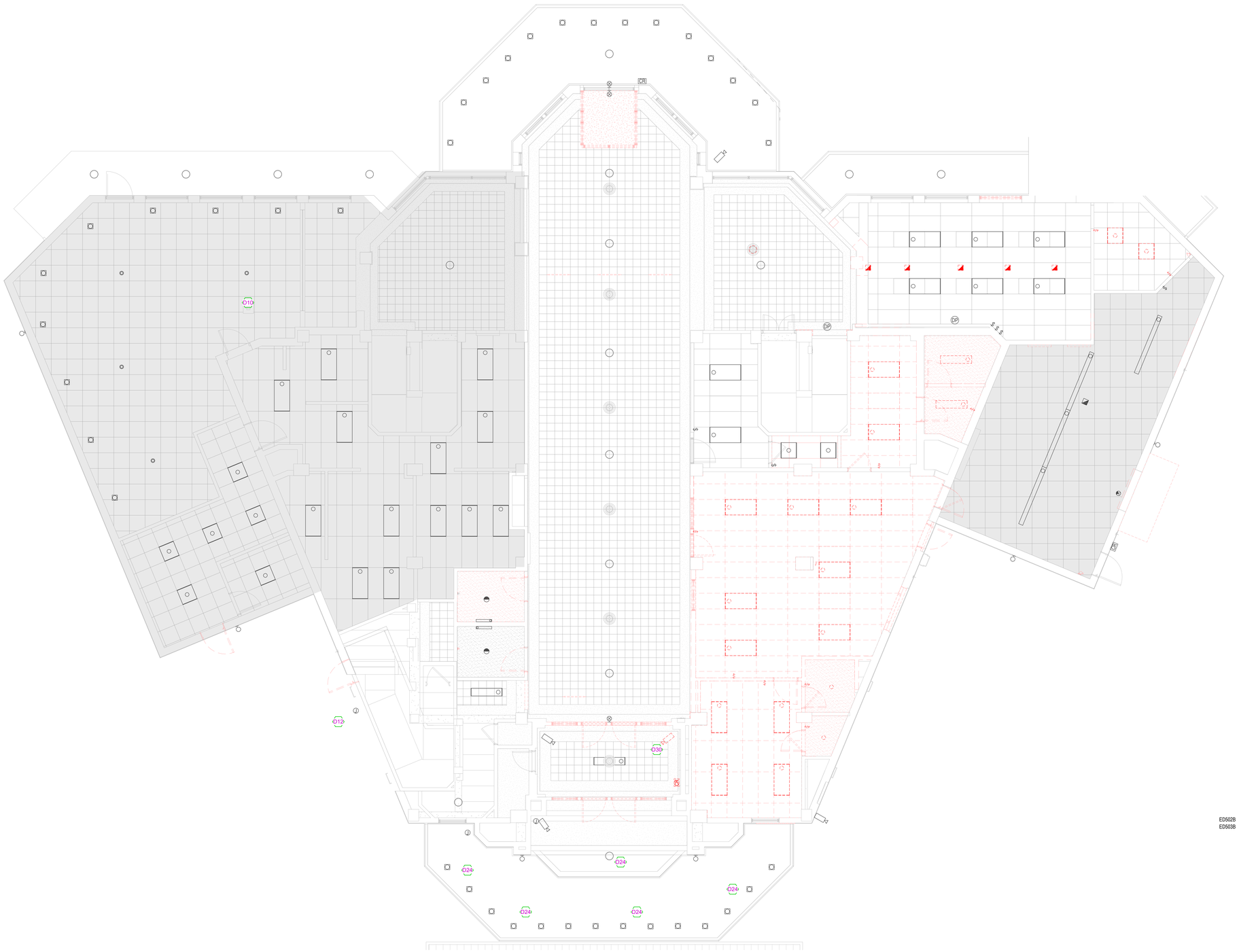
SAA Project No. 22343

Drawing Title
LEVEL 1 - DEMOLITION PLAN AREA - B

Sheet Number
ED502A



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SHEET KEYNOTES

D10	EQUIPMENT IN SHADED AREAS TO REMAIN OPERATIONAL. TRACE EXISTING BRANCH CIRCUITS PRIOR TO DEMOLITION OF ANY DEVICES IN THIS AREA. REDLINE PLANS FOR ENGINEER TO INCLUDE IN FUTURE PLANS.
D12	EXISTING SATELLITE DISH TO BE MAINTAINED.
D24	TRACE CIRCUITING FOR EXTERIOR FIXTURES TO ENSURE THEY MAINTAIN FUNCTIONALITY THROUGHOUT THE REMODEL AND AFTER CONSTRUCTION.
D30	EXISTING CAMERA LOCATION TO BE RELOCATED TO OTHER SIDE OF ENTRY. REFER TO SHEET E401B FOR NEW LOCATION.

ED502B
ED503B

LEVEL 1 DEMOLITION RCP PLAN
AREA - B
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