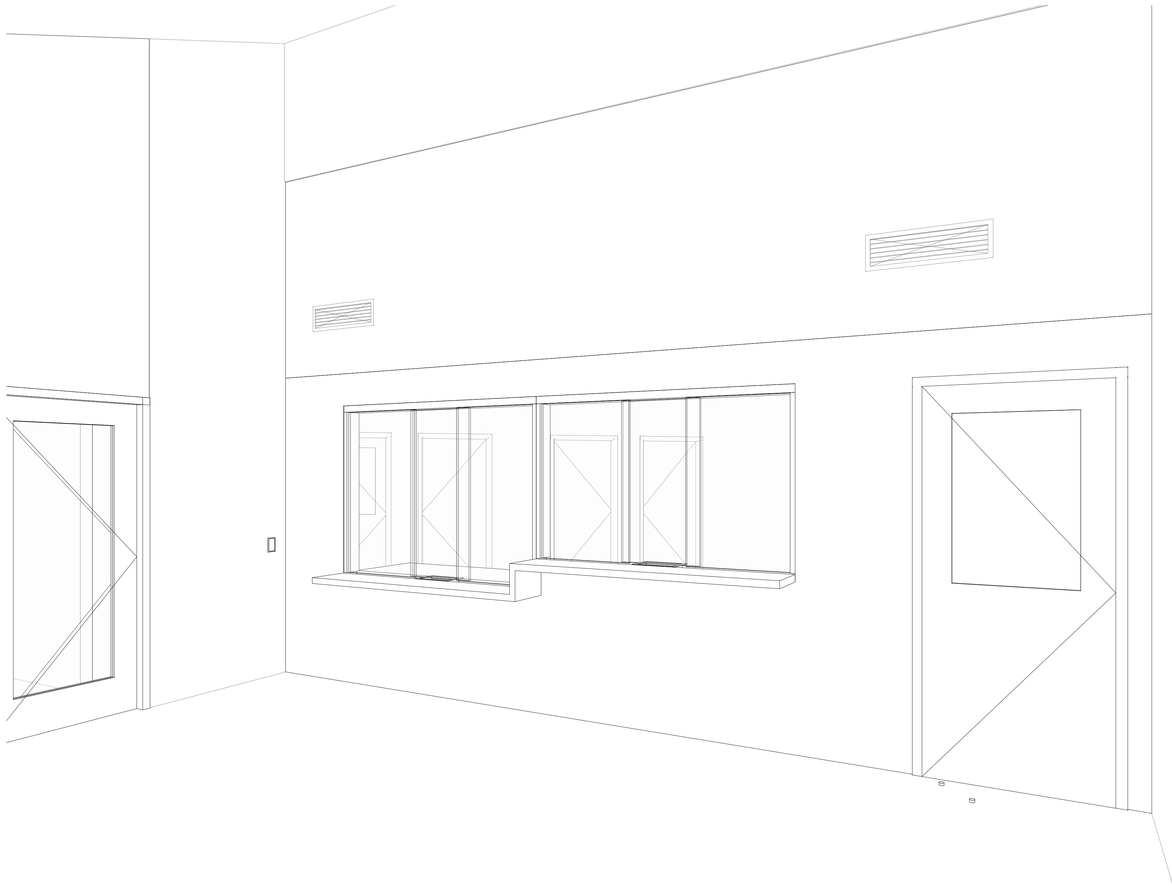
OGDEN COMMUNITY SERVICES BLDG REMODEL

CONSTRUCTION DOCUMENTS



GSBS ARCHITECTS

375 WEST 200
SALT LAKE CITY, UT

P 801.521.860
F 801.521.791

www.gsbsarchitects.co

STRUCTURAL ENGINEERING:
DUNN ASSOCIATES, INC
380 WEST 800 SOUTH, STE 100
SALT LAKE CITY, UTAH 84101
801.575.8877

MECHANICAL ENGINEERING:
PVE INC.
1040 NORTH 2200 WEST, STE 100
SALT LAKE CITY, UTAH 84116
801.359.3158

ELECTRICAL ENGINEERING:
ENVISION ENGINEERING
240 E. MORRIS AVE., STE 200
SALT LAKE CITY, UTAH 84115
801.534.1130

STATE OF UTAH
07/21/2025
RICHARD BROCK PETERSON
NO. 136510
REGISTERED ARCHITECT

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

VICINITY MAP

DRAWING INDEX

ABBREVIATIONS

ABV	ABOVE	DWGS	DRAWINGS	HR	HOUR	PLAM	PLASTIC LAMINATE	V.I.F.	VERIFY IN FIELD
A.F.F.	ABOVE FINISH FLOOR	EA	EACH	HYD	HYDRANT	PL	PLATE	VERT	VERTICAL
ADJ	ADJUSTABLE	EL	ELEVATION	IN	INCHES OR INCH	PCF	POUNDS PER CUBIC FOOT	VEST	VESTIBULE
ALUM	ALUMINUM	ELEV	ELEVATION	INFO	INFORMATION	PLF	POUNDS PER LINEAL FOOT	W/	WITH
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	EQ	EQUAL	INSUL	INSULATION	PSF	POUNDS PER SQUARE FOOT	W/O	WITHOUT
AB	ANCHOR BOLT	EXIST	EXISTING	INT	INTERIOR	PSI	POUNDS PER SQUARE INCH	WD	WOOD
<	ANGLE	EXP	EXPANSION	LAV	LAVATORY	QTY	QUANTITY		
APPROX	APPROXIMATE	E.J.	EXPANSION JOINT	LT WT	LIGHT WEIGHT	RAD	RADIUS		
ARCH	ARCHITECTURAL OR ARCHITECT	EXT	EXTERIOR	MAINT	MAINTENANCE	RCP	REFLECTED CEILING PLAN		
@	AT	FT	FEET OR FOOT	MFR	MANUFACTURER	REINF	REINFORCED		
B.P.	BASE PLATE	F.V.	FIELD VERIFY	M.O.	MASONRY OPENING	REQ	REQUIRED		
BRG	BEARING	FIN	FINISH	MAT	MATERIAL	R.D.	ROOF DRAIN		
BTWN	BETWEEN	F.F.	FINISH FLOOR	MAX	MAXIMUM	RM	ROOM		
BITUM	BITUMINOUS	F.E.	FIRE EXTINGUISHER	MECH	MECHANICAL	R.O.	ROUGH OPENING		
BD	BOARD	F.E.C.	FIRE EXTINGUISHER CABINET	MTL	METAL	SCHED	SCHEDULE		
B.O.	BOTTOM OF	FLR	FLOOR	MIN	MINIMUM	SHT	SHEET		
BLDG	BUILDING	FD	FLOOR DRAIN	MISC	MISCELLANEOUS	SIM	SIMILAR		
CLG	CEILING	FTG	FOOTING	N.I.C.	NOT IN CONTRACT	STC	SOUND TRANSMISSION COEFFICIENT		
CL	CENTER LINE	FDN	FOUNDATION	N.T.S.	NOT TO SCALE	SPEC	SPECIFICATION		
CLR	CLEAR	GA	GAGE/GAUGE	#	NUMBER	STD	STANDARD		
COL	COLUMN	GAL	GALLON	NO.	NUMBER	STRUCT	STRUCTURAL		
CONC	CONCRETE	GPM	GALLONS PER MINUTE	O.C.	ON CENTER	SUSP	SUSPENDED		
CMU	CONCRETE MASONRY UNIT	GALV	GALVANIZED	OPP	OPPOSITE	THRU	THROUGH		
CONST	CONSTRUCTION	GND	GROUND	O.D.	OUTSIDE DIAMETER	T.O.	TOP OF		
CONT	CONTINUOUS	GYP BD	GYPSUM BOARD	O.H.	OVERHEAD	T.O.A.	TOP OF ASPHALT		
C.J.	CONTROL JOINT	GWB	GYPSUM WALL BOARD	OH DR	OVERHEAD DOOR	T.O.C.	TOP OF CURB		
COORD	COORDINATE	HW	HARDWARE	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED	T.O.F.	TOP OF FOOTING		
DEPT	DEPARTMENT	HVAC	HEATING/VENTILATION/AIR CONDITIONING	O.F.O.I.	OWNER FURNISHED OWNER INSTALLED	T.O.S.	TOP OF SLAB OR SIDEWALK		
DTL	DETAIL	HT	HEIGHT			T.O.W.	TOP OF WALL		
Ø	DIAMETER	H.M.	HOLLOW METAL	PNT	PAINTED OR PAINT	TYP	TYPICAL		
DIA	DIAMETER	HORIZ	HORIZONTAL	PTN	PARTITION	U.N.O.	UNLESS NOTED OTHERWISE		
DBL	DOUBLE			PERP	PERPENDICULAR	VEN	VENEER		

NOTE:
ABBREVIATIONS FOR FINISHED MATERIALS ARE DESCRIBED IN THE FINISH LEGEND.

GRAPHIC SYMBOLS

- GRID — GRID LINES
- # / SHEET — DETAIL SYMBOL: DETAIL NUMBER/ SHEET WHERE DETAIL IS DRAWN
- # / SHEET — BUILDING SECTION SYMBOL: SECTION REFERENCE/ SHEET WHERE SECTION IS DRAWN
- # / SHEET — WALL SECTION SYMBOL: SECTION REFERENCE/ SHEET WHERE SECTION IS DRAWN
- SHEET / # — EXTERIOR ELEVATION SYMBOL: ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN
- SHEET / # — INTERIOR ELEVATION SYMBOL: ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN
- ELEVATION CONTROL POINT OR DATUM POINT
- 100A — DOOR TAG: DOOR NUMBER
- W1 — WINDOW TAG: WINDOW OR STOREFRONT NUMBER
- NAME / 101 — ROOM TAG: ROOM NAME, ROOM NUMBER
- 1 — REVISION TAG
- # / SHEET / SCALE VIEW NAME — VIEW TITLE: VIEW NUMBER/ SHEET WHERE VIEW IS LOCATED, VIEW NAME/ VIEW SCALE

MATERIALS/LEGEND

- CONCRETE MASONRY UNIT
- FACE BRICK
- CONCRETE (POURED IN PLACE)
- GYPSUM BOARD OR SETTING BEDS
- INSULATION (BATT & BLANKET)
- INSULATION (RIGID/SEMI-RIGID)
- PLYWOOD
- CONTINUOUS ROUGH WOOD
- BLOCKING, ROUGH WOOD
- METAL (LARGE SCALE)
- GRAVEL
- EARTH
- COMPACTED FILL
- QUARRY/CERAMIC TILE
- FIREPROOFING
- WOOD

GSBS ARCHITECTS
375 WEST 200
SALT LAKE CITY, UT
P 801.521.8600
F 801.521.7911
www.gsbsarchitects.com

REVISIONS:

STATE OF UTAH
07/21/2025
RICHARD BROCK PETERSON
NO. 136519
LICENSED ARCHITECT

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

DRAWING INDEX, SYMBOLS AND ABBREVIATIONS

G001 REV

GENERAL NOTES

1. WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, THE DRAWINGS, AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT.

2. THE CONTRACTOR SHALL REVIEW DOCUMENTS AND VERIFY DIMENSIONS AND FIELD CONDITIONS. ANY OMISSIONS OR DISCREPANCIES SHALL BE REPORTED IN WRITING TO THE ARCHITECT AS SOON AS POSSIBLE. REVIEW UNKNOWN CONDITIONS OR CONDITIONS THAT VARY FROM THE CONTRACT DOCUMENTS WITH THE ARCHITECT PRIOR TO THE INSTALLATION OF NEW WORK.

3. IF DOCUMENTS ARE AT VARIANCE WITH ONE ANOTHER ON A PARTICULAR ITEM OR ITEMS, CONTRACTOR SHALL BASE THE PROPOSAL ON THE MOST STRINGENT OF THE CONDITIONS. ITEMS OR EQUIPMENT SPECIFIED UNDER ONE TRADE SHALL BE BINDING AS IF SPECIFIED UNDER ALL APPLICABLE TRADES.

4. THE CONTRACTOR SHALL INCLUDE IN BID ALL COSTS FOR AND SHALL ARRANGE FOR HOISTING, CARTING, ELEVATOR SERVICE, STANDARD AND OVERTIME SERVICES BY THE BUILDING MANAGEMENT AND OVERTIME CHARGES AND EXPENSES WHEN REQUIRED, DUE TO BUILDING MANAGEMENT REQUIREMENTS.

5. WHERE REQUIRED, THE CONTRACTOR SHALL FILE AND OBTAIN FOR THE BUILDING DEPARTMENT AND OTHER AGENCY APPROVALS AND PERMITS, CONTROLLED INSPECTIONS, AND FINAL WRITE-OFFS FOR PROJECT COMPLETION. COPIES OF TRANSACTIONS ARE TO BE FORWARDED TO THE ARCHITECT AND BUILDING MANAGEMENT PRIOR TO COMMENCING WORK.
THE OWNER SHALL PAY FEES FOR ANY OF THE ABOVE.

6. THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS NECESSARY TO OBTAIN A CERTIFICATE OF OCCUPANCY BY OFFICIALS AS DESIGNATED BY THE AUTHORITY HAVING JURISDICTION.

7. THE CONTRACTOR SHALL MAINTAIN FOR THE ENTIRE LENGTH OF CONTRACT EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS, IN OCCUPIED AREAS OF THE BUILDING.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SUPPORTING, BRACING AND PROTECTING WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION, AND/OR MISALIGNMENT IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS AND GOOD PRACTICE.

9. WORK AND/OR CONSTRUCTION OPERATIONS SHALL NOT UNDERMINE THE STRUCTURAL INTEGRITY OF THE BUILDING.

10. THE CONTRACTOR SHALL VERIFY THAT DRAWINGS ARE THE LATEST ISSUE PRIOR TO COMMENCING CONSTRUCTION.

11. IN CASE OF CONFLICT BETWEEN ARCHITECT'S AND ENGINEER'S DRAWINGS IN LOCATION OF MATERIALS/EQUIPMENT, THE ARCHITECTURAL DRAWINGS SHALL GOVERN.

12. THE CONTRACTOR SHALL NOT PROCEED WITH WORK WHICH REQUIRES ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE A CLAIM FOR EXTRA COMPENSATION.

13. WORK SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS WHENEVER POSSIBLE. WORK INVOLVING EXCESSIVE NOISE OR DUST, OR WORK WHICH WOULD OTHERWISE INTERFERE WITH THE NORMAL OPERATION OF THE FACILITY AND/OR TENANTS SHALL BE DONE ON AN OVERTIME, NON-REGULAR BUSINESS HOURS BASIS OR AS AGREED TO WITH OWNER OR TENANTS. THIS SHALL BE COORDINATED WITH BUILDING MANAGEMENT.

14. THE CONTRACTOR SHALL COORDINATE WORK INCLUDING, BUT NOT LIMITED TO, SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, BUILDING FACILITIES AND USE AND CLEARANCE OF AVAILABLE ELEVATORS WITH BUILDING MANAGEMENT.

15. WORK AREAS SHALL REMAIN SECURE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE, WHERE NECESSARY, TEMPORARY LOCKABLE DOORS TO PROVIDE THE TENANT CONSTANT ACCESS TO SPACES NOT UNDER CONSTRUCTION. CONTRACTOR SHALL PROVIDE TENANT WITH KEYS FOR TEMPORARY DOORS, IF REQUIRED.

16. THE CONTRACTOR SHALL PROVIDE A FULL-TIME SUPERINTENDENT OR REPRESENTATIVE AT THE JOB SITE DURING ALL WORKING HOURS WHO SHALL SUPERVISE AND DIRECT THE WORK ACCORDING TO THE SPECIFIED QUALITY STANDARDS.

17. THE CONTRACTOR SHALL APPLY, INSTALL, CONNECT, ERECT, CLEAN AND/OR CONDITION MANUFACTURED ARTICLES, MATERIALS, AND/OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. IN CASE OF CONFLICT BETWEEN MANUFACTURER'S INSTRUCTIONS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.

18. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR THE COORDINATION OF WORK AND FOR THE WORK PERFORMED BY THE SUBCONTRACTORS.

19. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK BY OTHERS INCLUDING BUT NOT LIMITED TO TELEPHONE, DATA AND 'FURNISHED, AND/OR-INSTALLED, OWNER PROVIDED' ITEMS. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND SHALL DO THE CUTTING, FITTING, AND PATCHING THAT MAY BE REQUIRED TO MAKE THE PARTS OF THE WORK WHICH WILL RECEIVE THE WORK OF OTHERS COMPLY WITH WHAT IS SHOWN OR REASONABLY IMPLIED BY THE DRAWINGS.

20. BEFORE CUTTING EXAMINE AREAS TO BE CUT. PROTECT EXISTING CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE. PROVIDE TEMPORARY SUPPORT. DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A WAY THAT COULD REDUCE THEIR LOAD CARRYING CAPACITY. DO NOT CUT AND PATCH IN A MANNER THAT WOULD RESULT IN VISUAL EVIDENCE OF CUTTING AND PATCHING. SALVAGE, CLEAN AND REINSTALL CUT AND PATCHED EXISTING BUILDING ELEMENTS TO BE REUSED IN THE NEW WORK, AS INDICATED ON THE DRAWINGS.

21. THE CONTRACTOR SHALL PROTECT THE BUILDING PREMISES AND OCCUPANTS ON THE PROJECT SITE FROM DAMAGE OR INJURY RESULTING FROM HIS OPERATIONS. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN NECESSARY COVERINGS, BOARDS, TEMPORARY PARTITIONS, AND DOORS AS REQUIRED TO PROTECT EXISTING WORK, MATERIALS, AND FINISHES TO REMAIN AT THE JOB SITE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES (ATTRIBUTABLE TO HIS OPERATION) AND REPAIRS OR REPLACEMENTS WITHOUT ADDITIONAL CHARGE TO THE PARTY AFFECTED.

22. SUBSTITUTIONS, REVISIONS, OR CHANGES MUST BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL (IN CONFORMANCE WITH SPECIFIED PROCEDURES) PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.

23. IMMEDIATELY PRIOR TO THE OWNER'S OCCUPANCY OF ANY PHASE, THE CONTRACTOR SHALL CLEAN SURFACES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIAL, EQUIPMENT AND SHALL LEAVE FLOORS VACUUMED AND CLEAN. REMAINING CONSTRUCTION MATERIAL AND EQUIPMENT, IF ANY, SHALL BE MOVED AND TEMPORARILY SECURED IN AN AREA DIRECTED BY THE OWNER.

24. THE CONTRACTOR SHALL CLEAN WINDOWS AND WINDOW COVERINGS AND SHALL VACUUM THE INSIDE OF CONVECTOR ENCLOSURES IMMEDIATELY PRIOR TO OWNER OCCUPANCY.

25. DO NOT SCALE DRAWINGS. CLARIFICATION OR INFORMATION REQUIRED BY THE CONTRACTOR WILL BE FURNISHED BY THE ARCHITECT UPON WRITTEN REQUEST FROM THE CONTRACTOR.

26. TYPICAL OR 'TYP' SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEYED AND NOTED 'TYP' WHEN THEY FIRST OCCUR.

27. SIMILAR OR 'SIM' MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS.

28. DIMENSIONS AND NOTES FOR A GIVEN CONDITION ARE TYPICAL FOR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

29. IN THE CASE OF CONFLICT BETWEEN NOTES ON DRAWINGS, INCLUDING ALL NOTES ON THIS SHEET, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. REQUEST CLARIFICATION FROM THE ARCHITECT IN ALL SUCH CASES.

30. CONTRACTOR SHALL COORDINATE WITH THE OWNERS TELEPHONE/DATA CONTRACTOR FOR THEIR WORK.

31. GENERAL CONTRACTOR SHALL THOROUGHLY INVESTIGATE EXISTING CONDITIONS AND SHALL COORDINATE ALL WORK WITH OWNER, INCLUDING ABATEMENT OF HAZARDOUS MATERIALS.

32. IF LEVELS ABOVE AND BELOW THE PROJECT AREA WILL BE CONTINUOUSLY OCCUPIED DURING CONSTRUCTION. CARE SHOULD BE TAKEN TO AVOID UNDUE DISTURBANCE TO TENANTS.

33. REFRIGERATOR, MICROWAVES, AND VENDING MACHINES ARE TO BE TENANT PROVIDED, CONTRACTOR INSTALLED.

CONSTRUCTION NOTES

1. REVIEW ALL NOTES BEFORE COMMENCING WORK.

2. DIMENSIONS MARKED 'CLEAR' SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF FINISHES INCLUDING CARPET, CERAMIC TILE, VCT, ETC. CONTRACTOR SHALL NOT ADJUST DIMENSIONS WITHOUT WRITTEN INSTRUCTION FROM THE ARCHITECT.

3. DIMENSIONS MARKED 'CLEAR' ARE TO BE WITHIN 1/16" ALONG FULL HEIGHT AND FULL WIDTH OF WALLS, DIMENSIONS ARE AS FOLLOWS, UNLESS OTHERWISE INDICATED:
   A. TO FINISHED FACE OF GYPSUM BOARD
   B. TO INSIDE FACE OF JAMB AT DOORS AND OTHER OPENINGS
   C. TO TOP OF FINISHED FLOORS
   D. TO BOTTOM OF FINISHED CEILINGS

4. CONTRACTOR SHALL LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF STUDS WITHOUT THIS REVIEW APPROVAL. CONTRACTOR SHALL COORDINATE AND VERIFY CONDITIONS TO ENSURE PROPER FIT. REVIEW FOR DESIGN INTENT DOES NOT RELEASE CONTRACTOR FROM RESPONSIBILITY TO MAINTAIN CRITICAL DIMENSIONS AND CLEARANCES.

5. NEW GYPSUM BOARD CONSTRUCTION ADJOINING EXISTING CONSTRUCTION IN THE SAME PLANE SHALL BE FLUSH WITH NO VISIBLE JOINTS, UNLESS OTHERWISE NOTED.

6. EXPOSED GYPSUM BOARD EDGES SHALL HAVE METAL TRIM. PROVIDE CORNER BEADS ALONG FULL LENGTH OF OUTSIDE CORNERS AND J BEADS ALONG ENDS OF GYPSUM BOARD, UNLESS OTHERWISE NOTED. TAPE, SPACKLE AND SAND JOINTS. PARTITIONS SHALL HAVE A SMOOTH FINISHED CONDITION READY FOR PAINT AND FINISH MATERIAL APPLICATION, UNLESS NOTED OTHERWISE.

7. PENETRATIONS IN GYPSUM BOARD CONSTRUCTION ABOVE FINISHED CEILING SHALL BE EFFECTIVELY SEALED TO PREVENT SOUND LEAKAGE AT ACOUSTICAL PARTITIONS AND AT DEMISING PARTITIONS, UNLESS OTHERWISE NOTED.

8. INSTALL GLASS USING FGMA STANDARDS FOR TYPE OF SYSTEM. REMOVE ALL NON-PERMANENT LABELS.

9. CONTRACTOR TO INSTALL ALL CEILING MATERIALS FINISHES AND FIXTURES IN ACCORDANCE WITH SEISMIC REQUIREMENTS BY THE CURRENT CODE FOR THE JURISDICTION.

10. LIFE SAFETY SYSTEMS CONSISTING OF BUT NOT LIMITED TO FIRE SPRINKLERS, ALARM HORNS AND STROBES, ETC., TO BE DRAWN AND ENGINEERED BY OTHERS ACCORDING TO CODE AND BUILDING STANDARD.

11. PROVIDE DRAWINGS FOR REVIEW BY ARCHITECT'S OFFICE REGARDING THERMOSTAT/FIRE ALARM EQUIPMENT LOCATIONS

FIRE PROTECTION NOTES

1. FLOOR CARPET SHALL BE TESTED IN ACCORDANCE TO NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 253 AND BE A CLASS I (0.45 WATTS/CM2) IN CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAY. CLASS II (0.22 WATTS/CM2) IN ALL ROOMS AND AREAS.

2. THERMAL AND SOUND INSULATION AND COVERING WHICH ARE INSTALLED IN CONCEALED AND EXPOSED SPACES AND AS COVERING OVER PIPE AND TUBING SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450.

3. THERMAL AND SOUND INSULATION AND COVERING OVER PIPE AND TUBING WHICH ARE INSTALLED IN CONCEALED PLENUM SPACES SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 025 AND A SMOKE INDEX OF 0-50.

4. INTERIOR WALL FINISHES WHICH ARE TEXTILES AND CEILING TILE SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 025 AND A SMOKE INDEX OF 0- 450.

5. AUTOMATIC FIRE SPRINKLER SYSTEMS WHICH ARE CLASSIFIED AS LIGHT HAZARD SHALL BE PROVIDED WITH QUICK-RESPONSE FIRE SPRINKLER HEADS.

6. SMOKE DAMPERS SHALL BE LISTED ULSSSS AND BE CONTROLLED BY AUTOMATIC SMOKE DETECTION EITHER IN THE DUCT OR AREA OF SMOKE SEPARATION.

7. PENETRATION OF A SMOKE BARRIERS AND PARTITION SHALL BE PROVIDE WITH AN APPROVED FIRE/SMOKE STOP SYSTEM OF A MINIMUM OF 1 HOUR FIRE RATED MATERIALS WHICH HAVE BEEN TESTED AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 814.

8. FIRE STOPPING MATERIALS FOR NON-FERROUS PIPE, CONDUIT AND OTHER SYNTHETIC MATERIALS SHALL BE COMPATIBLE WITH EACH OTHER.

9. FIRE STOPPING MATERIALS INSTALLED ARE REQUIRED TO HAVE LABELS ON BOTH SIDES OF THE PROTECTED PENETRATION.

10. ALL FIRE RATED ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH ASTM E 119 OR EQUIVALENT

11. REQUIRED MEANS OF EGRESS AND FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED DURING DEMOLITION, CONSTRUCTION, REMODELING OR ALTERATIONS AND ADDITIONS TO THE BUILDING. FIRE PREVENTION BUREAU STAFF SHALL APPROVE REVIEW OF ANY EXITING ALTERATIONS. AS REQUIRED IN IFC SECTION 3311.2.

12. AUTOMATIC FIRE SPRINKLER, FIRE SUPPRESSION AND FIRE ALARM SYSTEMS WHEN TAKEN OUT OF SERVICE ARE REQUIRED TO HAVE THE FIRE PREVENTION BUREAU NOTIFIED AT (801) 799-4150. THE DURATION OF TIME AND THE DATE MUST BE STATED TO INCLUDE THE DATE WHICH THE FIRE PROTECTION EQUIPMENT WILL BE PLACED IN SERVICE. AS REQUIRED IN IFC CHAPTER 33.

13. ALL FIRE PROTECTION AND DETECTION SYSTEMS SHALL HAVE THE PIPING AND WIRING EXPOSED FOR INSPECTION. THE PIPING AND WIRING MAYBE COVERED AFTER THE FIRE INSPECTION OF THE SYSTEMS HAS BEEN SATISFACTORY COMPLETED.

14. DEFFERED SUBMITTALS TO INCLUDE BUT NOT LIMITED TO: WATER MAINS (PRIVATE & PUBLIC), WATER LATERALS, FIRE HYDRANTS, AUTOMATIC FIRE SPRINKLER SYSTEMS, STANDPIPES, AUTOMATIC FIRE SUPPRESSION SYSTEM, UL 300 (CLASS I HOOD AND DUCT SUPPRESSION SYSTEMS), AUTOMATIC SMOKE DETECTION SYSTEMS, FIRE ALARM SYSTEMS, CLEAN GAS FIRE SUPPRESSION SYSTEMS, VESDA DETECTION SYSTEM, ETC. THE DEFERRED SUBMITTAL APPLICATION SHALL BE PROVIDED WHICH IS COMPLETED, WET STAMPED AND SIGNED BY THE ARCHITECT.

15. CEILING TILE SHALL BE LISTED AND TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450. IF THE CEILING TILE IS A COMPONENT PART OF A PLENUM SYSTEM THEN IT SHALL BE LISTED AND TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-50.

16. FABRICS, DRAPES AND DROPS SHALL BE INHERENTLY FLAME RETARDANT OR RENDERED BY A PROCESS WHICH MEETS NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 703. FIRE-RETARDANT COATINGS SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 OR UNDERWRITERS LABORATORY (UL) 723. FIRE-RETARDANT COATING MATERIALS SHALL BE LISTED AND LABELED TO INDICATE CONFORMANCE WITH THE REQUIREMENTS AND BE PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM AS REQUIRED BY INTERNATIONAL FIRE CODE (IFC) SECTION 803.5.1.

FINISH NOTES

1. REVIEW ALL CONTRACT DOCUMENTS AND NOTES BEFORE COMMENCING WORK.

2. CONTRACTOR SHALL PROPERLY PREPARE SURFACES PER FINISH MATERIAL MANUFACTURER'S SPECIFICATIONS PRIOR TO APPLICATION OF FINISH.

3. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE AND FREE OF IRREGULARITIES - DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED, STARTING WORK SHALL INDICATE APPLICATORS ACCEPTANCE OF SUBSTRATE.

4. REPAIR AND PREPARE EXISTING SURFACES AS REQUIRED FOR APPLICATION OF SCHEDULED FINISHES.

5. PREPARE FLOOR AREAS AS REQUIRED TO RECEIVE FLOOR FINISHES INCLUDING LEVELING AS REQUIRED TO ACHIEVE A SMOOTH FLOOR.

6. FOR CARPET PREPARATION CLEAN FLOORS OF DUST, DIRT, SOLVENTS, OIL, GREASE, PAINT, PLASTER, AND SUBSTANCES DETRIMENTAL TO PROPER PERFORMANCE OF ADHESIVE AND CARPET AS RECOMMENDED BY MANUFACTURER. ALLOW FLOORS TO THOROUGHLY DRY.

7. COMPLY WITH MANUFACTURER'S PRINTED INSTRUCTIONS IN THE INSTALLATION OF THE CARPET.

8. LAY CARPET IN THE SAME DIRECTION, UNLESS SPECIFICALLY SHOWN OTHERWISE. MAINTAIN UNIFORMITY OF DIRECTION AND LAY CARPET WITH A MINIMUM OF SEAMS, NO CROSS JOINTS PERMITTED. AVOID SEAMS AT CONSPICUOUS LOCATIONS NEAR DOORS AND CORNERS.

9. NEATLY TRIM CARPET EDGES FOR TIGHT FIT ALONG WALLS: CUT AND FIT EVENLY AROUND PROJECTIONS AND INTO TRIM STRIPS AND REVEALS. FIT CLOSELY AND EVENLY TO DOORWAYS TERMINATING CARPET AT FRAMES. FINISHED INSTALLATION SHALL BE SMOOTH AND FREE OF RIPPLES AND PUCKERS.

10. APPLICATOR SHALL USE ONE COAT PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND WILL APPLY TWO FINISH COATS AS RECOMMENDED BY MANUFACTURER TO MATCH ARCHITECT'S SPECIFIED FINISH. TINT PRIME COAT TOWARD FINAL COLOR. SEALER/PRIMER SHALL BE ROLL APPLIED TO GYPSUM BOARD.

11. REMOVE OR PROVIDE SURFACE APPLIED PROTECTION TO HARDWARE, HARDWARE ACCESSORIES, MACHINED SURFACES, PLATE, LIGHT FIXTURES, AND SIMILAR ITEMS IN PLACES WHICH ARE NOT TO BE FINISH-PAINTED. FOLLOWING COMPLETION AND AFTER SURFACES ARE COMPLETELY DRY, REINSTALL REMOVED ITEMS AND/OR REMOVE PROTECTION FROM ITEMS.

12. FIELD VERIFY ALL CONDITIONS TO DETERMINE EXACT DIMENSIONS PRIOR TO FABRICATION.

13. PROVIDE BLOCKING AT ALL WALLS TO RECEIVE MILLWORK. THE G.C. AND MILLWORK CONTRACTOR TO COORDINATE REQUIRED LOCATION FOR CONCEALED BLOCKING TO ADEQUATELY SUPPORT THE MILLWORK. ALL ATTACHMENT HARDWARE SHALL BE CONCEALED FROM VIEW.

14. COORDINATE ELECTRICAL CONTRACTOR ACCESS SERVICE WAYS WITH G.C. PRIOR TO FABRICATION. PROVIDE FIELD CUTOUTS AS REQUIRED AT INTERIOR OF MILLWORK FOR WIREWAYS.

BUILDING OWNER NOTES

1. ALL WORK THAT REQUIRES OPEN FLAME OR PRODUCES ANY SPARK SUCH AS SOLDERING OF PIPE JOINTS, WELDING, CUTTING OF METAL STUDS WILL REQUIRE A "HOT WORK PERMIT" PRIOR TO COMMENCING WITH ANY SUCH WORK, CONTRACTOR SHALL CONTACT THE BUILDING ENGINEER FOR A "HOT WORK PERMIT"

2. SWEEPING AND DUST. CONTRACTOR SHALL SEAL OFF THE RETURN AIR DUCT IN THE SPACE PRIOR TO ANY SWEEPING OR CREATION OF DUST. ALL SWEEPING SHALL BE DONE USING A SWEEPING COMPOUND WITH SUFFICIENT AMOUNT TO PREVENT ANY DUST FROM FORMING.

3. CONTRACTOR SHALL ENSURE THAT ALL SMOKE DETECTION DEVICES ARE COVERED PRIOR TO AND DURING CONSTRUCTION.

4. THERE MUST BE A ½" DEFLECTION DETAIL AT THE TOP OF ALL WALLS THAT CONNECT TO THE STRUCTURE ABOVE.

5. ALL FLOOR PENETRATIONS MUST BE COORDINATED WITH BUILDING MANAGEMENT, THE TENANT LOCATED ON FLOOR BELOW, CORE DRILLED AND PERFORMED AFTER HOURS.

6. ALL LOCK CYLINDERS SHALL BE SCHLAGE IC 6 PIN "C" CORES KEYED TO THE BUILDING MASTER KEY SCHEDULE. ALL KEYING TO BE DONE BY GLEN'S KEY'S

7. ALL INSULATION BATTS EXPOSED IN THE PLENUM CEILING MUST BE FSK-25 WRAPPED (JOHNS-MANVILLE COMFORT THERM OR APPROVED EQUAL) AND CUT TO ALLOW ALL CEILING TILE TO BE MOVED FOR ACCESS TO PLENUM.

8. IN 'WET' AREAS THAT CONTAIN: SINKS, FLOOR SINKS, ICE MACHINES, SHOWERS/RESTROOMS, ETC. THE BASE BUILDING CONCRETE SLAB MUST BE SEALED WALL TO WALL WITH A WATERPROOFING MEMBRANE PRIOR TO THE INSTALLATION OF FINISH FLOORING.

9. ALL DOOR FINISHES AND HARDWARE THAT ADJOIN THE BUILDING COMMON AREA MUST MATCH THE BASE BUILDING STANDARD FINISH ON THE COMMON AREA SIDE.

10. ALL FLOOR LEVELING AND FLOOR PREPARATION NEEDS TO BE INCLUDED WITHIN THE CONTRACTOR'S SCOPE OF WORK AND INCLUDED WITHIN THE BID.

GSBS ARCHITECTS
375 WEST 200
SALT LAKE CITY, UT
P 801.521.860
F 801.521.791
www.gsbsarchitects.co

REVISIONS:

STATE OF UTAH
07/21/2025
RICHARD BROCK PETERSON
NO. 13651
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

GENERAL NOTES

G100 REV

CODE PLAN LEGEND

EXIT (0.15) 1st
X.XXX OCC
X'-X" R
X'-X" P

LOCATION (EXIT WIDTH FACTOR) GOVERNING FLOOR
OCCUPANT NUMBER
REQUIRED EXIT WIDTH
PROVIDED EXIT WIDTH

XX' EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY IS TYPE B UNLESS NOTED OTHERWISE

CODE REVIEW CRITERIA

OCCUPANCY GROUP(S)	B - BUSINESS
TYPE OF CONSTRUCTION	TYPE V (ASSUMED)
FIRE SPRINKLERS	NO
NUMBER OF STORIES	1

EXISTING BUILDING SQ. FT. - (B) 4,298 SF (EXISTING BUILDING)

PROJECT SQ. FT. - (B) 2,583 SF

EXISTING BLDG. OCCUPANT LOAD:
4,298 / 150 = 29 OCCUPANTS (EXISTING)

PROJECT WORK AREA OCCUPANT LOAD:
2,583 / 150 = 18 OCCUPANTS

APPLICABLE CODES - Effective 7/1/2024

15A-2-103. Specific editions adopted of construction code of a nationally recognized code authority.
1. Subject to the other provisions of this part, the following construction codes are incorporated by reference, and together with the amendments specified in Chapter 3, Statewide Amendments Incorporated as Part of State Construction Code, and Chapter 4, Local Amendments Incorporated as Part of State Construction Code, are the construction standards to be applied to building construction, alteration, remodeling, and repair, and in the regulation of building construction, alteration, remodeling, and repair in the state:

a. the 2021 edition of the International Building Code, including Appendices C and J, issued by the International Code Council;
b. the 2021 edition of the International Residential Code, issued by the International Code Council;
c. Appendix AQ of the 2021 edition of the International Residential Code, issued by the International Code Council;
d. the 2021 edition of the International Plumbing Code, issued by the International Code Council;
e. the 2021 edition of the International Mechanical Code, issued by the International Code Council;
f. the 2021 edition of the International Fuel Gas Code, issued by the International Code Council;
g. the 2020 edition of the National Electrical Code, issued by the National Fire Protection Association;
h. the 2021 edition of the International Energy Conservation Code, issued by the International Code Council;
i. the 2021 edition of the International Existing Building Code, issued by the International Code Council.

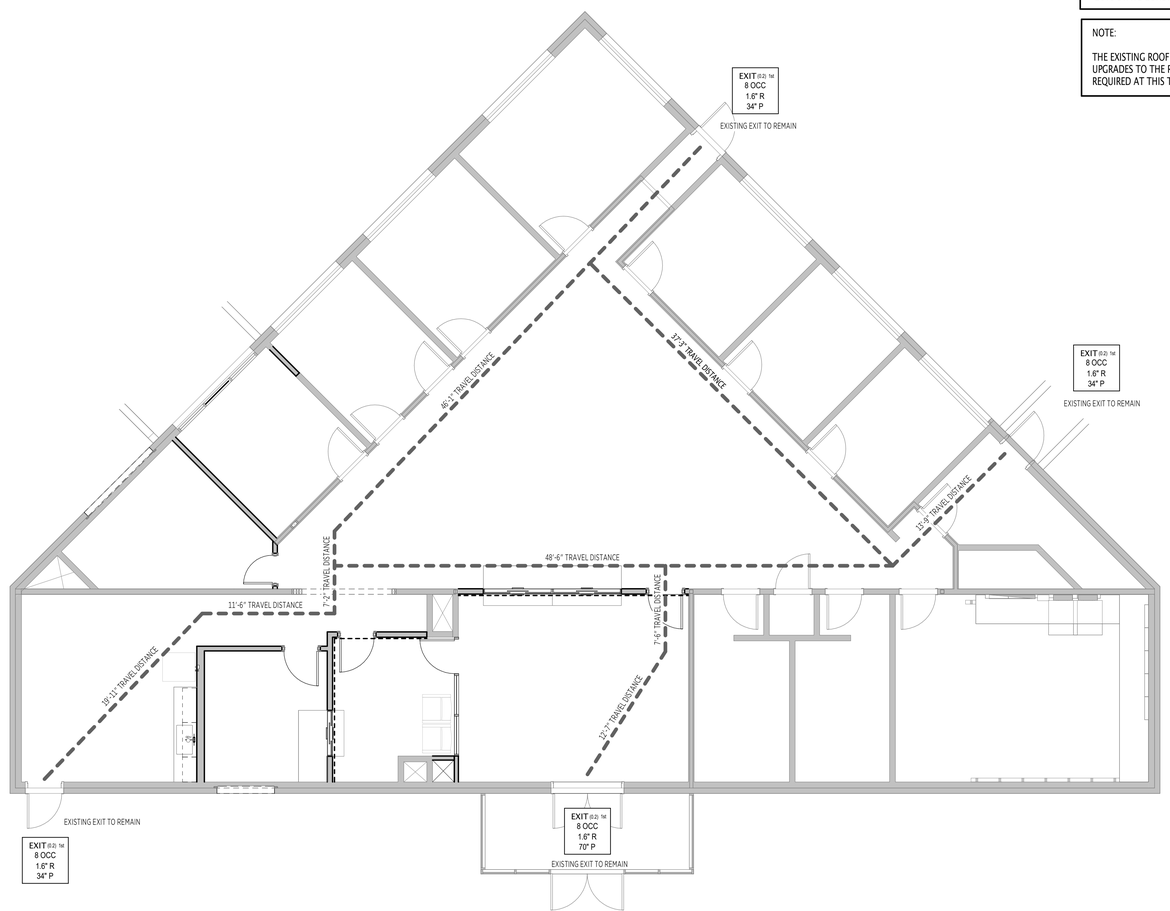
2009 ADA ACCESSIBILITY GUIDELINES - ICC/ANSI A117.1

SECTION 504 OF THE RZEEHABILITATION ACT OF 1973

2019 STATE CONSTRUCTION AND FIRE CODES ACT, AMENDED

NOTE:

THE EXISTING ROOF STRUCTURE IS TO REMAIN. NO STRUCTURAL UPGRADES TO THE ROOF STRUCTURE IS ANTICIPATED OR REQUIRED AT THIS TIME.



1 G120 ENLARGED CODE PLAN
3/16" = 1'-0"

GSBS ARCHITECTS
375 WEST 200
SALT LAKE CITY, UT
P 801.521.8600
F 801.521.7911
www.gsbsarchitects.co

REVISIONS:

STATE OF UTAH
07/21/2025
RICHARD BROCK PETERSON
NO. 136511
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

CODE DATA

G120 REV

DEMOLITION LEGEND

EXISTING BUILDING ELEMENTS TO BE REMOVED

EXISTING BUILDING ELEMENTS TO REMAIN

SHADED AREAS NOT IN SCOPE OF WORK

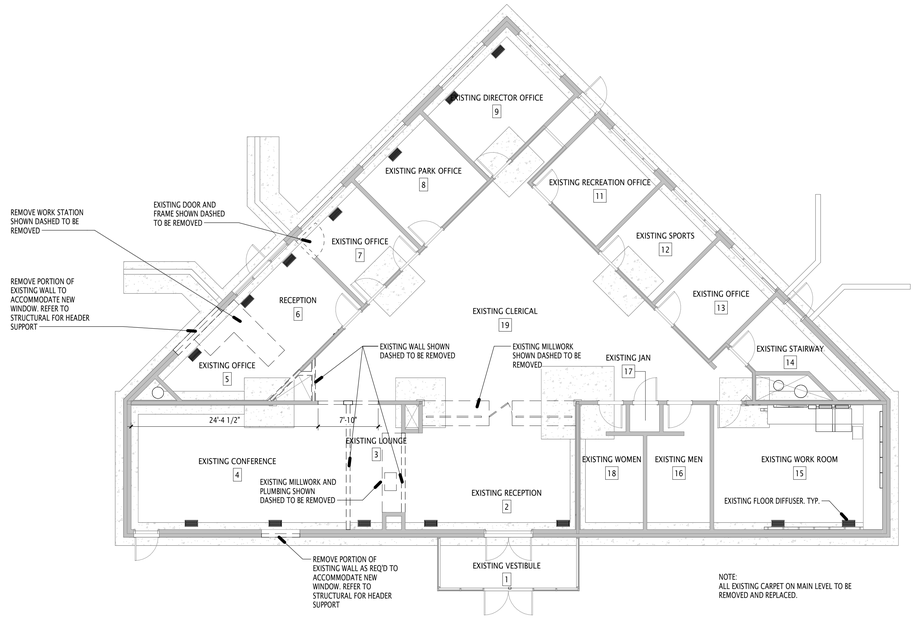
DEFINITIONS

A. REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.
B. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, AND STORE.
C. REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
D. EXISTING TO REMAIN: LEAVE EXISTING ITEMS THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE SALVAGED OR REINSTALLED.
E. DISMANTLE: TO REMOVE BY DISASSEMBLING OR DETACHING AN ITEM FROM A SURFACE, USING GENTLE METHODS AND EQUIPMENT TO PREVENT DAMAGE TO THE ITEM AND SURFACES; DISPOSING OF ITEMS UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING STRUCTURAL AND FIREPROOFING INTEGRITY OF THE ENTIRE BUILDING EXCEPT WHERE OTHERWISE NOTED.
2. SEE ENGINEERING DRAWINGS AND SPECIFICATIONS FOR THE REMOVAL OF SPECIFIC STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE ALARM SYSTEMS.
3. REINSTALLED EQUIPMENT AND DEVICES ARE TO BE CLEANED OF ALL FOREIGN MATERIAL. REPLACE EQUIPMENT OR DEVICES WHICH ARE DEFECTIVE OR DAMAGED DURING RELOCATION.
4. EXISTING SECURITY CAMERAS TO REMAIN THROUGHOUT CONSTRUCTION - CONTRACTOR TO VERIFY EXISTING DATA/POWER ROOTING & MAINTAIN UNINTERRUPTED.
5. WHEREVER MECHANICAL, ELECTRICAL, AND PLUMBING DEVICES ARE REMOVED, ALL PIPING AND/OR CONDUITS THAT ARE ABANDONED SHALL BE CAPPED OFF BELOW THE FLOOR, INSIDE THE WALLS, OR ABOVE THE CEILINGS EXCEPT WHERE NOTED OTHERWISE. MECHANICAL/ELECTRICAL CONTRACTOR TO REMOVE ALL UNUSED WIRING TO PANEL BOXES. PATCH AND REPAIR FINISHES TO MATCH SURROUNDING FINISHES. BLANK COVER PLATES OVER EXISTING BOXES ARE NOT ACCEPTABLE, UNLESS OTHERWISE NOTED.
6. REMOVE EXISTING WALL AND EXISTING WINDOW SYSTEM AS REQUIRED.
7. REMOVE EXISTING DOOR & FRAME.
8. EXISTING WALL TO REMAIN.
9. REMOVE WALL BASE IN AREAS WHERE FLOORING IS BEING REMOVED.
10. FLOORS AND WALLS: WHERE WALLS OR PARTITIONS THAT ARE REMOVED EXTEND ONE FINISHED AREA INTO ANOTHER, PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE TO PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE.
11. EXISTING MILLWORK TO BE REMOVED. EXISTING COUNTERTOP GATE AND WINDOWS TO BE REMOVED IN ENTIRETY.

NOTE: NOT ALL NOTE NUMBERS MAY BE USED ON THIS SHEET



1 AD101 DEMOLITION FLOOR PLAN - LEVEL 1

1/8" = 1'-0"

0' 4' 8' 12' 16' 24'

GRAPHIC SCALE

GSBS ARCHITECTS

375 WEST 200
SALT LAKE CITY, UT

P 801.521.8600
F 801.521.7911

www.gsbsarchitects.com

REVISIONS:

STATE OF UTAH
07/21/2025
RICHARD BROCK PETERSON
NO. 13651
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

DEMOLITION FLOOR PLAN

AD101 REV

METAL STUD DEFLECTION CHART

THE INFORMATION SHOWN REPRESENTS MANUFACTURERS PUBLISHED CRITERIA FROM **CEMCO METAL STUDS**. CONTRACTOR SHALL PROVIDE METAL STUD FRAMING WITH APPROPRIATE PERFORMANCE CHARACTERISTICS, BASED ON SUPPLIED MANUFACTURER'S PUBLISHED CRITERIA, TO ACHIEVE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.

16" STUD SPACING (L/360, 5psf)			
3 5/8" STUD (1 5/8" FLANGE)			
33 mils	15'-4" High (Max.)		
43 mils	16'-8" High (Max.)		
54 mils	17'-10" High (Max.)		
6" STUD (1 5/8" FLANGE)			
33 mils	22'-8" High (Max.)		
43 mils	24'-9" High (Max.)		
12" STUD SPACING (L/360, 5psf)		54 mils	26'-6" High (Max.)
8" STUD (2 1/2" FLANGE)		8" STUD (2 1/2" FLANGE)	
43 mils	37'-5" High (Max.)	54 mils	36'-6" High (Max.)
54 mils	40'-3" High (Max.)	68 mils	39'-3" High (Max.)
68 mils	43'-3" High (Max.)	97 mils	43'-9" High (Max.)

WALL TYPES NOTES

1. UNLESS NOTED OTHERWISE, DIMENSIONS LOCATING WALLS INDICATE; CENTERLINE OF STUD AT METAL STUD WALLS, FACE OF STUD AT WOOD STUD WALLS AND FACE OF WALL AT CMU/CONCRETE WALLS.
2. UNLESS NOTED OTHERWISE, SPECIFIED WALL TYPE TO CONTINUE AT DOOR AND WINDOW OPENINGS (TOP AND BOTTOM).
3. IN ADDITION TO THE REQUIREMENTS OF DIVISION 01 OF THE SPECIFICATION, PROVIDE WALL TYPE "**D3B**" IF NO OTHER WALL TYPE HAS BEEN INDICATED.
4. "***CLEAR***" INDICATES DIMENSION TO FINISHED SURFACE INDICATED, INCLUSIVE OF ALL MATERIALS UTILIZED IN THE RELEVANT ASSEMBLY.
5. FOR WALL TYPES WITH AN "**H**" DESIGNATION, PROVIDE MANUFACTURER'S RECOMMENDED STRAPPING AT NO LESS THAN 4'-0" O.C VERTICALLY, WHEN THE WALL IS NOT DIRECTLY ATTACHED TO A SUPPORTING WALL SURFACE.
6. WHERE METAL AND/OR WOOD STUDS ARE PROVIDED AS FURRING, INSTALL ALL CONCEALED ELEMENTS IN THE METAL AND/OR WOOD FRAMED ASSEMBLY.
7. PROVIDE FIRE RETARDANT TREATED PLYWOOD BACKING ON ALL WALLS INDICATED TO RECEIVE WALL MOUNTED EQUIPMENT IN ELECTRICAL, DATA, IDP/MDP ROOMS.
8. UNLESS NOTED OTHERWISE DOOR JAMBS WITHIN METAL AND/OR WOOD STUD WALLS SHALL BE LOCATED 4" CLEAR FROM ADJACENT WALL.
9. PROVIDE SUITABLE BLOCKING IN METAL AND/OR WOOD FRAMED WALLS AND CEILINGS AS REQUIRED FOR INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND SPECIALTIES.
10. WHERE METAL AND/OR WOOD STUDS ARE INSTALLED DIRECTLY AGAINST EXTERIOR MASONRY WALLS, EXTERIOR CONCRETE WALLS OR DISSIMILAR METALS AT EXTERIOR WALLS, INSTALL ISOLATION STRIP BETWEEN STUDS AND EXTERIOR WALL.
11. PROVIDE GLASS-MAT WATER RESISTANT GYPSUM BOARD AT ALL LOCATIONS INDICATED TO RECEIVE TILE. INSTALL WITH 1/4 INCH GAP WHERE PANELS ABUT OTHER CONSTRUCTION OR PENETRATIONS. WHERE TILE BACKING PANELS ABUT OTHER TYPES OF PANELS IN SAME PLANE, SHIM SURFACES TO PRODUCE A UNIFORM PLANE ACROSS PANEL SURFACES.
13. UNLESS NOTED OTHERWISE, PROVIDE LEVEL 4 FINISH AT GYPSUM BOARD PANEL SURFACES THAT WILL BE EXPOSED TO VIEW.

WALL TYPES SCHEDULE

VV	STC	UL#	DESCRIPTION	RATING	PLAN
NON-RATED METAL STUD WALLS					
D3Bi	**45**		**3-5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYPSUM BOARD, EACH SIDE. EXTEND GYP. BD. TO DECK ABOVE. FILL CAVITY W/ 3-1/2" FIBERGLASS SOUND ATTENUATION BLANKET**		
D3Ci	**55**		**SEE COMMENT # 1: 3-5/8" METAL STUDS @ 16" O.C. W/ (2) LAYERS 5/8" GYPSUM BOARD ONE SIDE AND (1) LAYER OF GYPSUM BOARD ON THE OTHER SIDE. BEGIN WALL TYPE D3Ci AT 8'-0" A.F.F. AND EXTEND TO DECK ABOVE. FILL CAVITY WITH 3-1/2" FIBERGLASS SOUND ATTENUATION BLANKET**		
D3Si	**35**		**3-5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYPSUM BOARD OVER 8'-0" HIGH BALLISTIC PANEL ONE SIDE AND (1) LAYER 5/8" GYPSUM BOARD OTHER SIDE. FILL CAVITY WITH 3-1/2" FIBERGLASS SOUND ATTENUATION BLANKET**		
D6Ci	**55**		**6" METAL STUDS @ 16" O.C. W/ (2) LAYERS 5/8" GYPSUM BOARD, ONE SIDE AND (1) LAYER OF GYPSUM BOARD ON OTHER SIDE. EXTEND GYP. BD. TO DECK ABOVE. FILL CAVITY W/ 6" FIBERGLASS SOUND ATTENUATION BLANKET**		
METAL STUD FURRING					
H3B			**3-5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYPSUM BOARD, ONE SIDE ONLY. EXTEND GYP. BD. TO DECK ABOVE**		

1. WALLS TO BE BALLISTIC WALL PANEL ASSEMBLY ON INTERIOR AND EXTERIOR SIDE WITH FACE OF WALL AT 9'0" WHICH TERMINATES AT 8'-0" AFF. REFER TO DETAIL 1/AE102.

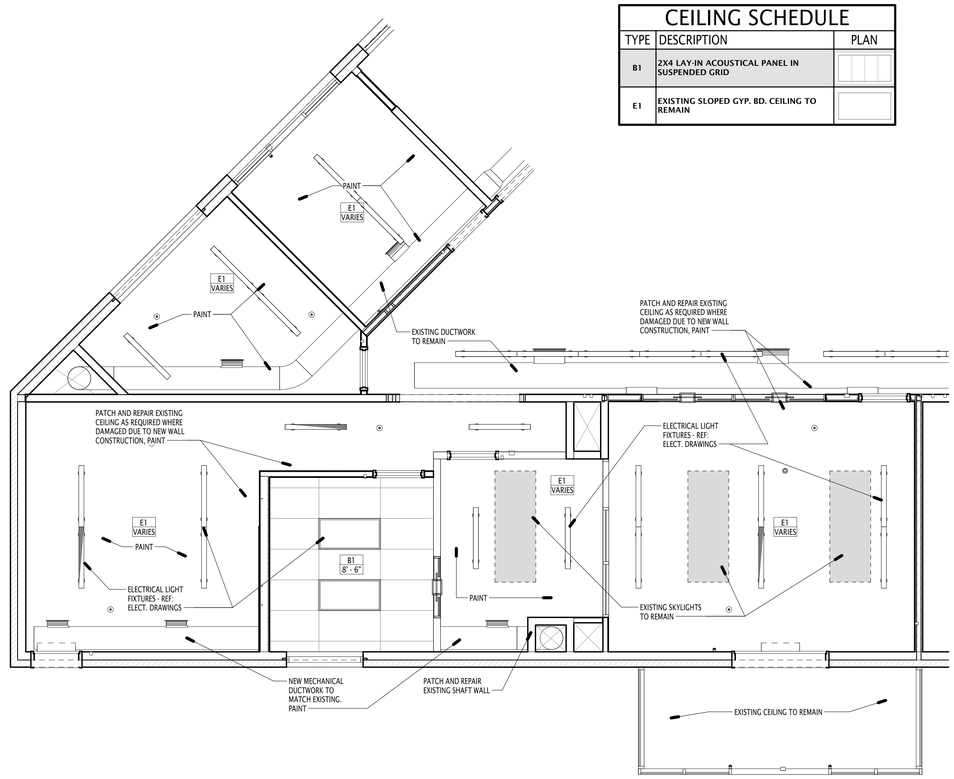
ROOM FINISH SCHEDULE

Level	NUMBER	NAME	WALL FINISH	BASE FINISH	FLOOR FINISH
LEVEL 1	**100**	**EXISTING VESTIBULE**			
LEVEL 1	**101**	**EXISTING RECEPTION**	**P1**	**WD**	**CP1**
LEVEL 1	**102**	**CEMETERY RECEPTION**	**P1**	**WD**	**CP1**
LEVEL 1	**103**	**CEMETERY OFFICE**	**P1**	**WD**	**CP1**
LEVEL 1	**104**	**BREAK ROOM**	**P1**	**WD**	**LVT1**
LEVEL 1	**105**	**NEW OFFICE**	**P1**	**WD**	**CP1**
LEVEL 1	**106**	**NEW OFFICE**	**P1**	**WD**	**CP1**
LEVEL 1	**107**	**EXISTING OFFICE**	**P1**	**WD**	**CP1**
LEVEL 1	**108**	**EXISTING PARKS OFFICE**	**P1**	**EX**	**CP1**
LEVEL 1	**109**	**EXISTING DIRECTOR OFFICE**	**P1**	**EX**	**CP1**
LEVEL 1	**110**	**EXISTING RECREATION OFFICE**	**P1**	**EX**	**CP1**
LEVEL 1	**111**	**EXISTING SPORTS**	**P1**	**EX**	**EX**
LEVEL 1	**112**	**EXISTING OFFICE**	**P1**	**EX**	**CP1**
LEVEL 1	**113**	**EXISTING STAIRWAY**	**P1**	**EX**	**EX**
LEVEL 1	**114**	**NEW CONFERENCE ROOM**	**P1**	**EX**	**CP1**
LEVEL 1	**115**	**EXISTING MEN**	**EX**	**EX**	**EX**
LEVEL 1	**116**	**EXISTING WOMEN**	**EX**	**EX**	**EX**
LEVEL 1	**117**	**EXISTING CLERICAL**	**P1**	**WD**	**CP1**
LEVEL 1	**118**	**CORRIDOR**	**P1**	**WD**	**CP1**

NOTE:
ALL AREAS WITH EXISTING CARPET TO RECEIVE NEW CARPET U.N.O.

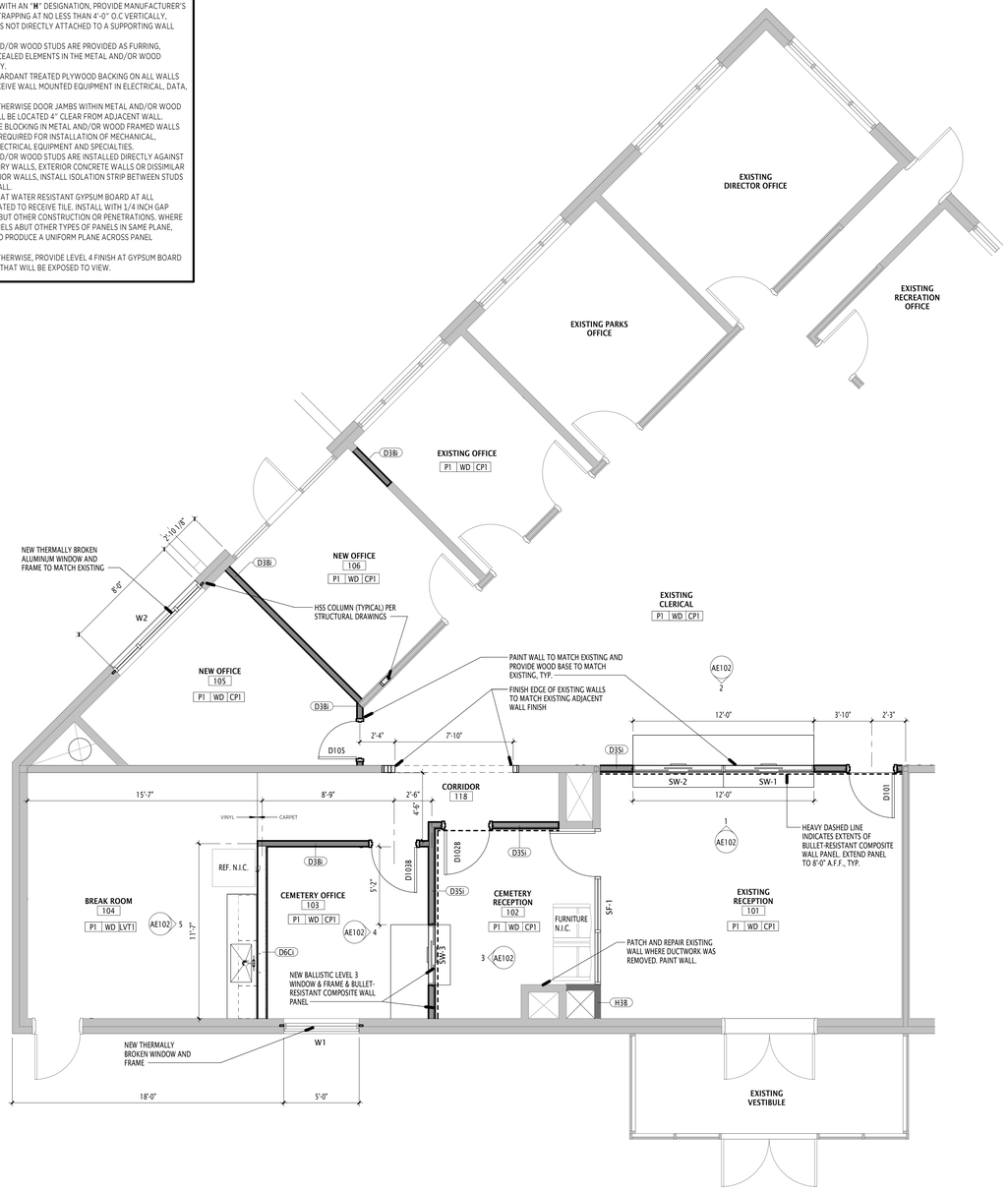
CEILING SCHEDULE

TYPE	DESCRIPTION	PLAN
B1	**2X4 LAY-IN ACOUSTICAL PANEL IN SUSPENDED GRID**	
E1	**EXISTING SLOPED GYP. BD. CEILING TO REMAIN**	



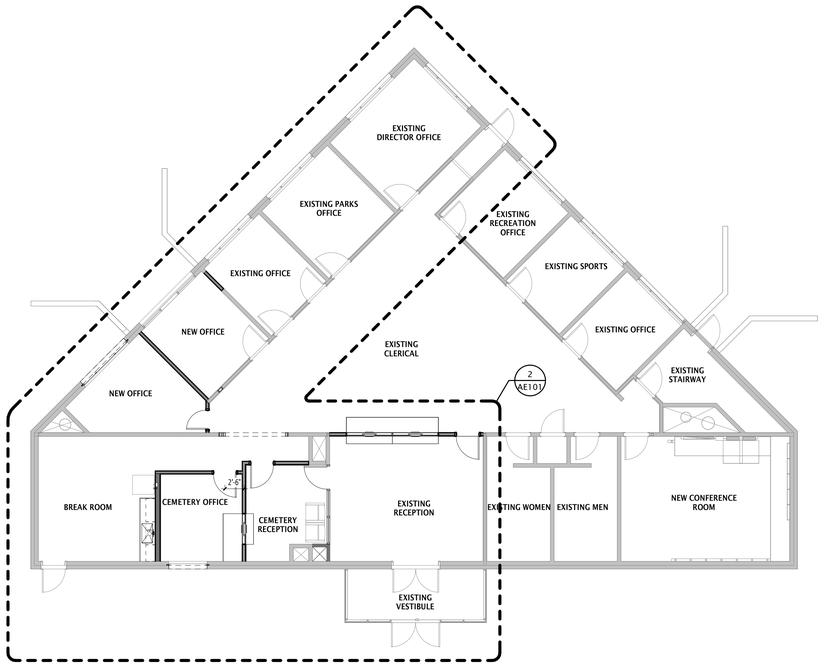
3 AE101 REFLECTED CEILING PLAN - LEVEL ONE
1/4" = 1'-0"

0' 2' 4' 6' 8' 12'
GRAPHIC SCALE



2 AE101 ENLARGED FLOOR AND WALL TYPES PLAN
1/4" = 1'-0"

0' 2' 4' 6' 8' 12'
GRAPHIC SCALE



1 AE101 FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 12' 16' 24'
GRAPHIC SCALE

N

GSBS ARCHITECTS
375 WEST 200
SALT LAKE CITY, UT
P 801.521.860
F 801.521.791
www.gsbsarchitects.co

REVISIONS:

STATE OF UTAH
07/21/2025
RICHARD BROCK PETERSON
NO. 13651
REGISTERED ARCHITECT

NOTE - THIS SHEET IS INTENDED TO BE VIEWED IN COLOR

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

FLOOR PLAN & REFLECTED CEILING PLAN

AE101 REV

GLAZING LEGEND

SG1 - LEVEL 3 SECURITY GLAZING
SG2 - GLAZING TO MATCH EXISTING BUILDING GLAZING
SG3 - EXISTING GLAZING TO REMAIN

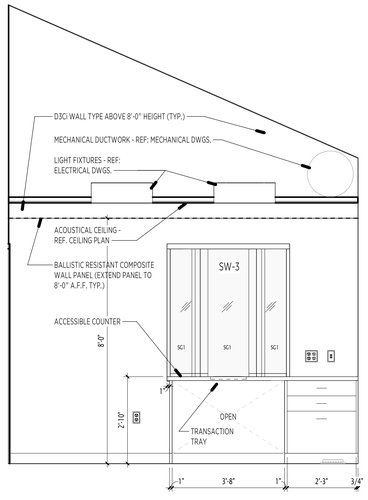
GSBS ARCHITECTS

375 WEST 200
SALT LAKE CITY, UT

P 801.521.8600
F 801.521.7911

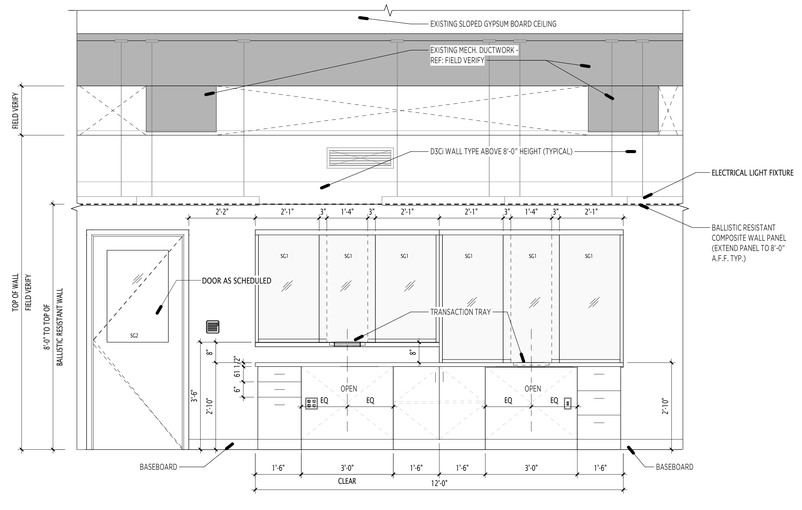
www.gsbsarchitects.co

REVISIONS:



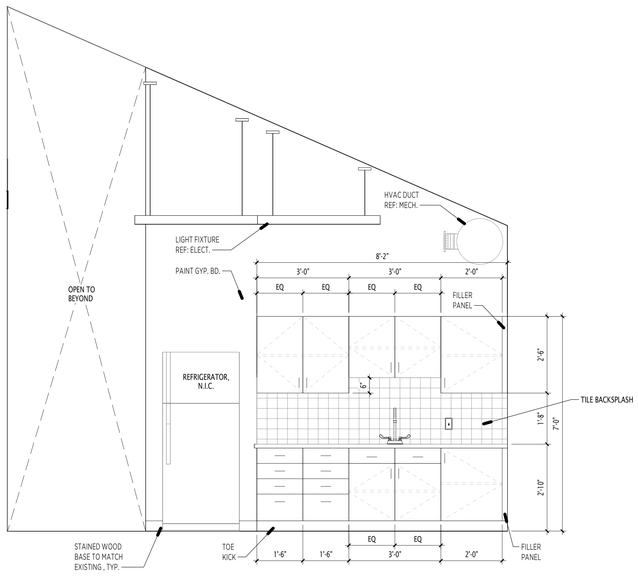
4 AE102 CEMETERY OFFICE ELEVATION 2
1/2" = 1'-0"

0' 1' 2' 3' 4' 6'
GRAPHIC SCALE



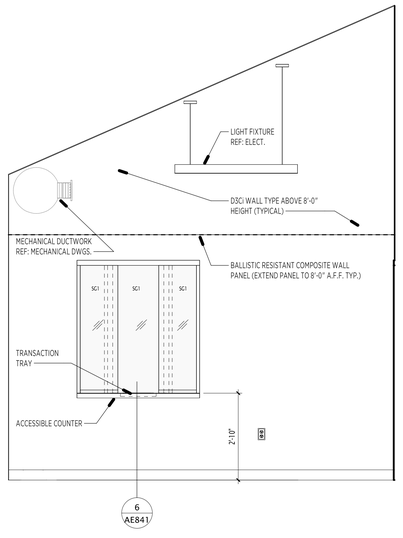
2 AE102 RECEPTION COUNTER ELEVATION 2
1/2" = 1'-0"

0' 1' 2' 3' 4' 6'
GRAPHIC SCALE



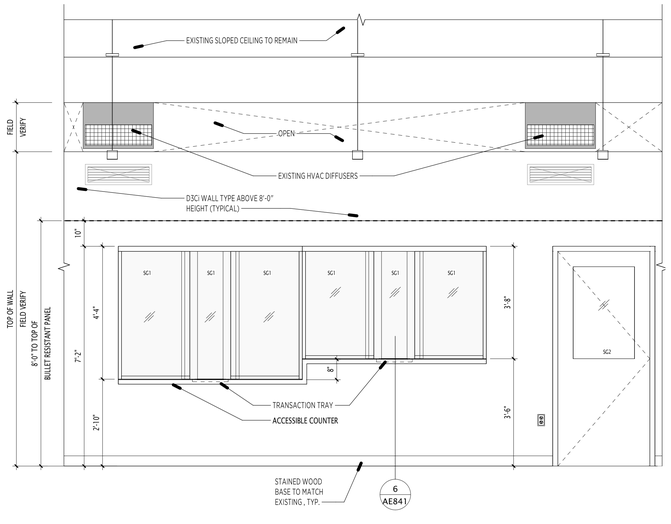
5 AE102 BREAK ROOM
1/2" = 1'-0"

0' 1' 2' 3' 4' 6'
GRAPHIC SCALE



3 AE102 CEMETERY OFFICE ELEVATION 1
1/2" = 1'-0"

0' 1' 2' 3' 4' 6'
GRAPHIC SCALE



1 AE102 RECEPTION COUNTER ELEVATION 1
1/2" = 1'-0"

0' 1' 2' 3' 4' 6'
GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

INTERIOR ELEVATIONS

AE102 REV

DOOR SCHEDULE

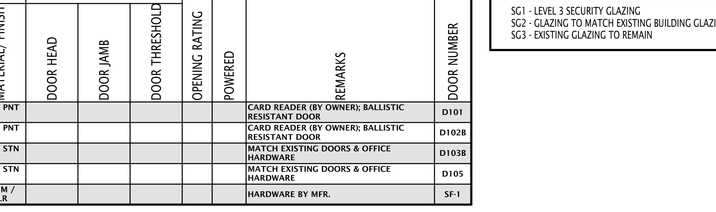
	DOOR						FRAME			DETAILS						
	PANELS	WIDTH	HEIGHT	TYPE	MATERIAL/ FINISH	HARDWARE	HEAD HEIGHT	TYPE	MATERIAL/ FINISH	DOOR HEAD	DOOR JAMB	DOOR THRESHOLD	OPENING RATING	POWERED	REMARKS	DOOR NUMBER
D101	SNGL	3' - 0"	7' - 0"	D2	WD / STN		2"	F1	HM / PNT						CARD READER (BY OWNER); BALLISTIC RESISTANT DOOR	D101
D102B	SNGL	3' - 0"	7' - 0"	D2	WD / STN		2"	F1	HM / PNT						CARD READER (BY OWNER); BALLISTIC RESISTANT DOOR	D102B
D103B	SNGL	3' - 0"	7' - 0"	D1	WD / STN		2"	F1	WD / STN						MATCH EXISTING DOORS & OFFICE HARDWARE	D103B
D105	SNGL	2' - 6"	7' - 0"	D1	WD / STN		2"	F1	WD / STN						MATCH EXISTING DOORS & OFFICE HARDWARE	D105
SF-1	SNGL	3' - 0"	7' - 0"	D4	ALUM / CLR			SEE ELEV	ALUM / CLR						HARDWARE BY MFR.	SF-1

GLAZING LEGEND

SG1 - LEVEL 3 SECURITY GLAZING
SG2 - GLAZING TO MATCH EXISTING BUILDING GLAZING
SG3 - EXISTING GLAZING TO REMAIN

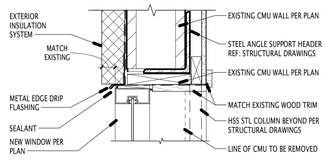
GSBS ARCHITECTS
375 WEST 200
SALT LAKE CITY, UT
P 801.521.860
F 801.521.791
www.gsbsarchitects.co

REVISIONS:

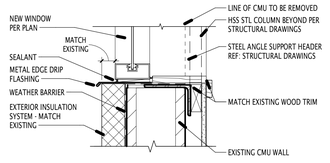


DOOR TYPES

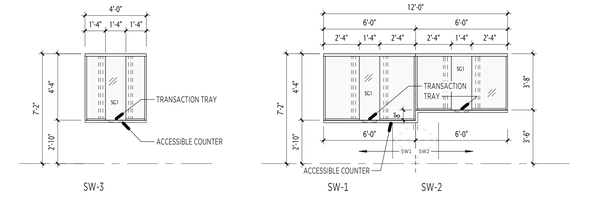
FRAME TYPES



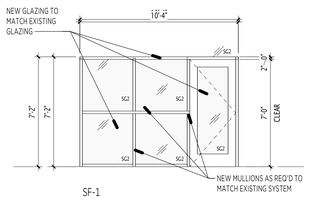
2 AE601 NEW WINDOW HEAD DETAIL
1 1/2" = 1'-0"



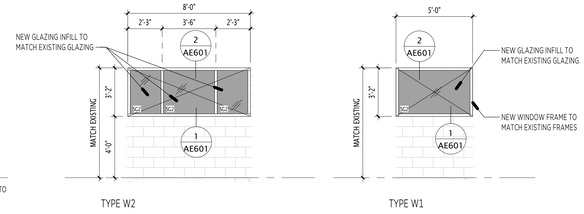
1 AE601 NEW WINDOW SILL DETAIL
1 1/2" = 1'-0"



BALLISTIC RESISTANT TRANSACTION WINDOWS



STOREFRONT TYPES



WINDOW TYPES

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

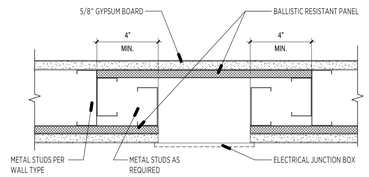
OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

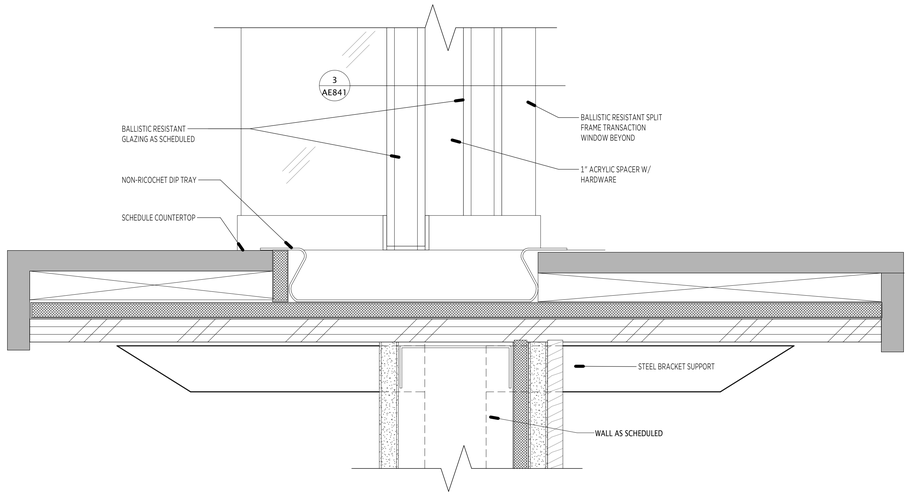
DOOR & WINDOW SCHEDULE & ELEVATIONS

AE601 REV

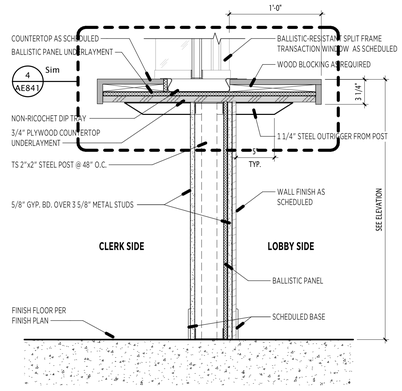


NOTE : AT ALL PENETRATION OF BULLET-RESISTANT PROVIDE ADDITIONAL LAYER OF BULLET RESISTANT FIBERGLASS PANEL. INSTALL TO INSIDE FACE OF STUDS SCREW 6" O.C. MINIMUM. PROVIDE FRAMING TOP & BOTTOM AS REQUIRED.

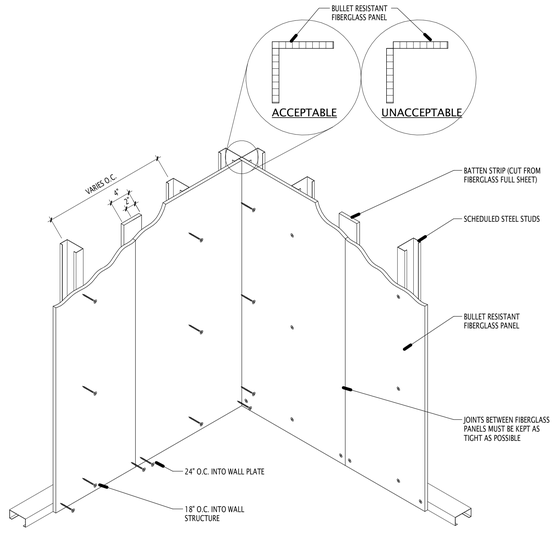
8 AE841 BALLISTIC PANEL INSTALLATION @ J-BOX
3" = 1'-0"



4 AE841 BALLISTIC COUNTER NATURAL VOICE BAFFLE
6" = 1'-0"

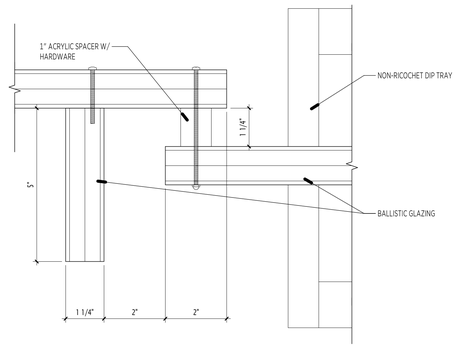


6 AE841 TRANSACTION COUNTER SECTION
1 1/2" = 1'-0"

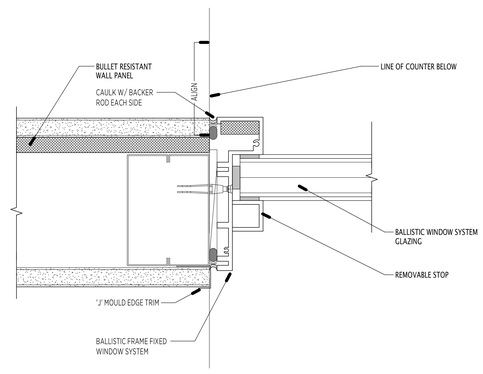


NOTE : BULLET RESISTANT PANEL SHOULD BE INSTALLED WITH FULL LOAD RESTING SECURELY AGAINST SLAB. ANCHOR TO WALL PLATE AND WALL STRUCTURE AS SHOWN.

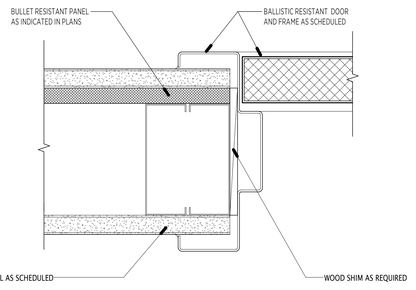
5 AE841 BALLISTIC PANEL INSTALLATION DETAIL
1" = 1'-0"



3 AE841 BALLISTIC NATURAL VOICE BAFFLE SYSTEM
6" = 1'-0"



2 AE841 BALLISTIC PANEL WINDOW JAMB @ COUNTER
6" = 1'-0"



1 AE841 BALLISTIC PANEL DOOR JAMB
6" = 1'-0"

GSBS ARCHITECTS
375 WEST 200
SALT LAKE CITY, UT
P 801.521.8600
F 801.521.7911
www.gsbsarchitects.com

REVISIONS:

STATE OF UTAH
07/21/2025
RICHARD BROCK PETERSON
NO. 136511
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

INTERIOR DETAILS

AE841 REV

BASIS OF DESIGN

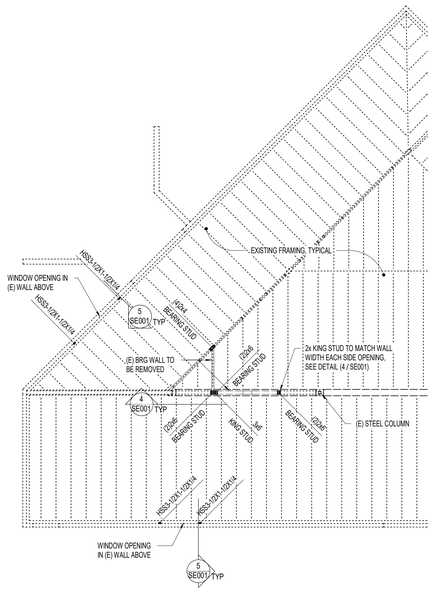
1. Governing Building Code---------- International Building Code 2021, International Existing Building Code 2021 - Alteration Level 2
2. Risk Category---------- II
3. Roof Live Load (Not concurrent with Roof Snow Load)---------- 20 psf
4. Roof Snow Load
   A. Ground Snow Load---------- Pg = 38 psf
   B. Flat Roof Snow Load---------- Pf = 27 psf
   C. Snow Exposure Factor---------- Ce = 1.0
   D. Thermal Factor---------- Ct = 1.0
   E. Snow Load Importance Factor---------- Is = 1.0
5. Wind Load
   A. Basic Wind Speed (3 Second Gust)---------- 105 mph
   B. Wind Importance Factor---------- 1.00
   C. Wind Exposure---------- C
   D. Internal Pressure Coefficient---------- ± 0.18
6. Seismic Design Criteria
   A. Seismic Importance Factor---------- 1.0
   B. Site Class (Soil Profile)---------- D - DEFAULT
   C. Seismic Design Criteria (75 percent of IBC prescribed forces per IEBC 304.3.2)
   D. Mapped Spectral Response Accelerations
      1. 0.2-Second (Short) Period Acceleration---------- S_S = 1.366
      2. 1-Second Acceleration---------- S_1 = 0.502
   E. Design Spectral Response Accelerations
      1. 0.2-Second (Short) Period Acceleration---------- S_{DS} = 1.093
      2. 1-Second Acceleration---------- S_{D1} = 0.602
   F. Seismic Design Category---------- D
   G. Lateral Force Resisting System(s)---------- Intermediate Masonry Shear Walls per IEBC 304.3.1 and TMS 7.3.2.6
      1. Response Modification Coefficient---------- R = 3.5
      2. System Overstrength Factor---------- Ω_0 = 2.5
      3. Deflection Amplification Factor---------- C_d = 2.25
      4. Design Base Shear---------- V = 0.75*C_s*W = 0.235W, where W is structural weight
   H. Analysis Procedure---------- Equivalent Lateral Force

STRUCTURAL STEEL

1. Codes and Standards: Fabrication, Erection and Quality Control of structural steel shall comply with the latest edition of the following:
   A. American Institute of Steel Construction (AISC) 360, "Specification for Structural Steel Buildings," with "Commentary".
   B. AISC 341 "Seismic Provisions for Structural Steel Buildings."
   C. AISC 303 "Code of Standard Practice" excluding sections 3.4, 4.4 and 4.4.1.
   D. AISC "Specification for Structural Joints Using High Strength Bolts"
   E. American Welding Society (AWS), Structural Welding Codes D1.1, D1.3, D1.4, and D1.8, except as modified by the "Steel Construction Manual".
2. Material:
   A. Wide Flange Sections---------- ASTM A992 (50 ksi)
      Notch-toughness requirements apply for Group 3, 4, and 5 shapes with flange thickness greater than 1 1/2" and plate 2" and thicker which are a part of the Seismic Load Resisting System (SLRS). Minimum Charpy V-Notch requirements are 20 ft-lbs at 70°F.
   B. Plate
      1. Typical---------- ASTM A36
   C. Hollow Structural Shapes
      1. Rectangular---------- ASTM A500 Grade C (50 ksi)
      2. Round---------- ASTM A500 Grade C (46 ksi)
   D. Other Structural Shapes (M, C, etc), Threaded Rod--- ASTM A36
   E. Bolted Connections---------- ASTM F3125 Grade A325 with ASTM A563 heavy hex nuts and ASTM F436 washers.
   F. Weld Filler Metal
      1. Shielded Metal Arc Welding---------- AWS A5.1, low-hydrogen only
         Low-hydrogen restrictions do not apply when welding sheet steels in accordance with AWS D1.3, including attaching these steels to structural members.
      2. Gas-Metal & Metal-Cored Arc Welding---------- AWS A5.18
      3. Flux-Cored Arc Welding---------- AWS A5.20
         E7XT-4 or E7XT-11 electrodes are not permitted.
      4. Intermixing of welds made from self-shielded welding electrodes with welds made by other processes is not allowed in seismic critical welds, unless tested in accordance with AWS D1.8, annex B. The Field Erection Contractor is responsible for verifying that intermixing of self-shielded weld metal with weld metal of other processes will not occur, or alternatively, the welding procedure is qualified by testing.
      5. Where demand critical welds are required, provide filler metals meeting the following minimum mechanical properties: 58ksi yield strength, 70ksi tensile strength, 22% elongation, Charpy V-Notch toughnesses of 20ft-lbs at 0°F and 40 ft-lbs at 70°F.
   G. Deformed Bar Anchors (DBA)---------- ASTM A496
   H. Headed Stud Anchors (HSA)---------- ASTM A108
   I. Non-Shrink Grout---------- ASTM C1107 Grade B
      Non-shrink grout shall be prepackaged, non-metallic and non-gaseous.
      Furnish certified independent test data to Structural Engineer.
      Compressive Strength in 28 days = 7,500 psi
   J. Refer to architectural drawings for structural steel fireproofing or architecturally exposed steel requirements.
   K. All steel, connectors and embeds exposed to weather shall be galvanized, unless noted otherwise.
3. Structural Detailing
   A. Welds may be performed in the shop or the field. Designations of field welds on the Contract Documents are shown where it is anticipated field welds may be required, and are shown only for the purpose of assisting the Contractor in the bidding process. The Contractor shall coordinate the welding sequence between sub-contractors, and any costs associated with variations in the welding sequence are outside the scope of the Design Engineer, and are the responsibility of the Contractor. Field welding is to be minimized where possible. Contractor is to verify that the sequencing of welds meets all safety regulations, and the requirements of the Construction Documents and their referenced codes. Welding in the 'k' region of wide flange members is prohibited unless noted otherwise.
   B. Bolting and Fasteners
      1. Ordinary steel-to-steel connections, simple span framing, and beam/girder-to-bearing plates are the standard connection used throughout the design drawings, unless noted otherwise:
         a. Use A325N bolts or tension-controlled bolts.
         b. Tighten these fasteners to a "snug tight" condition.
         c. Where a steel-to-steel connection is not shown, provide a framed connection per AISC for one half the total uniform load capacity of the beam for the span and steel specified.
      2. Pretensioned connections are shown on the structural design drawings. They join steel-to-steel connections, unless noted otherwise:
         a. Use A325N or A325X bolts or tension-controlled bolts.
         b. Pretension these fasteners as required by AISC "Specification for Structural Joints Using ASTM A325 or a A490 bolts."
      3. Fasteners and washers shall not be reused. Scrap dirty, rusted, or water-contaminated bolt assemblies.
   C. All welds not noted on drawings shall be minimum 1/4" fillet welds.
   D. All structural steel members shall be considered as an unrestrained fire-resistance-rated assembly.

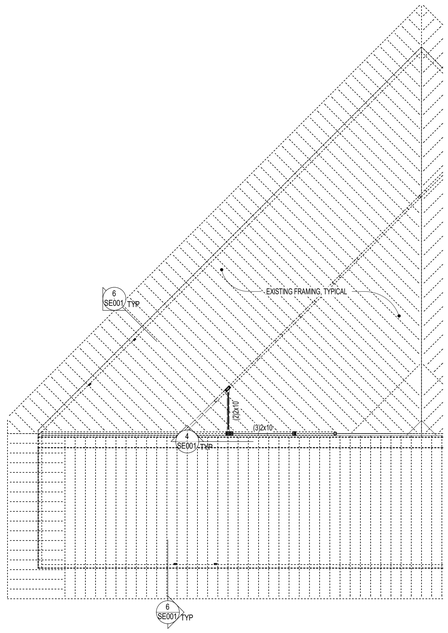
WOOD

1. Materials (Dry service conditions assumed. Max moisture content of 19% for Sawn Lumber and Connections; 16% for all others)
   A. Dimension Lumber and Timbers (Sawn Lumber)
      1. All dimensioned lumber shall comply with USDOC PS20.
      2. Visually graded dimension lumber shall be Douglas Fir-Larch #2 or better.
         A. Fb= 900, E = 1.6x10^6, Fcperp = 625, Fv = 180, Fcpar=1350, Ft = 575, G=0.5.
      3. Visually graded timbers (5" x 5" and larger) shall be Douglas Fir-Larch #1 or better.
         A. Beams & Stringers (Width>Thickness +2"): Fb= 1350, E = 1.6x10^6, Fcperp = 625, Fv = 170, Fcpar=925, Ft = 675, G=0.5.
         B. Posts & Timbers (Width<Thickness +2"): Fb= 1200, E = 1.6x10^6, Fcperp = 625, Fv = 170, Fcpar=1000, Ft = 825, G=0.5.
      4. Machine stress rated (MSR) lumber shall be 1650f-1.6E or better. Fb= 1650, E = 1.6x10^6, Fcpar=1700, Ft = 1175, G=0.5.
      5. Approved end jointed lumber may be used interchangeably with solid sawn members of the same species and grade.
   B. Nails
      1. All Nails shall conform to the requirements specified in ASTM F1667, "Standard Specification of Driven Fasteners: Nails, Spikes and Staples."
      2. All nails shall be common nails with the following properties:
         Nail----------Shank Diameter----------Min. Penetration into Support
         6d----------0.113"----------1.25"
         8d----------0.131"----------1.50"
         10d----------0.148"----------1.63"
         12d----------0.148"----------1.63"
         16d----------0.162"----------1.75"
         Nails with properties less then those listed above shall not be used without prior written approval from Dunn Associates, Inc. Hy-Tek nails may be substituted for common nails per ESR-2948.
      3. Nails with "T", brad, finish or casing heads are not permitted. Nails with Round (full), Offset, Oval, Clipped or Notched heads are acceptable.
      4. Deformed shank nails shall have either a helical (screw) or an annular (ring) shank.
   C. Connection Hardware
      1. All connection hardware shown shall be supplied by Simpson Strong-Tie Incorporated, unless noted otherwise. Install all hardware per the manufacturer's guidelines, filling all available holes with nails.
      2. Connection hardware of equal design properties, including Mitek-USP Structural Connectors or other manufacturers may be substituted with written approval from Dunn Associates, Inc.
2. Per IBC 2304.3.3, all mechanical, electrical, plumbing and drainage systems shall accommodate for the effects of wood shrinkage, approximately 1/4" shrinkage per level, cumulative from base to roof. Potential solutions may include vertically elongated holes through studs for horizontal pipe (following permitted holes and notches detail), vertical expansion joints on vertical pipes, or other industry standards. 1/4" per floor accounts for 5 plates (7.5") shrinking 7.5% times the difference between initial and final moisture contents of 19% and 8% respectively, divided by 30%. 7.5/100* 11/30*7.5" = 1/4". 5 plates is one sill plate, two top plates and two truss chords.
3. All fasteners in contact with preservative-treated or fire-treated wood shall be hot-dipped zinc-coated galvanized or stainless steel.
4. All wood in contact with concrete, masonry or soil shall be preservative-treated or redwood.
5. Design values adjusted for fire-treated lumber using Pyroguard (ESR-1791). Substitutions eligible by approval.
6. General framing and carpentry shall be connected as per "THE MINIMUM NAILING SCHEDULE" unless noted otherwise.
7. All bearing and shear walls shall have a minimum of 2 top plates. See details for splices in top plates.
8. Provide either an additional joist within 2" of centerline of parallel partitions, or provide 2x4 flat blocking at 24"oc between joists to support partitions.
9. Solid blocking at eaves may be omitted where required for ventilation (1 block in 5), unless noted otherwise.
10. Holes or penetrations through bearing walls shall be limited to the clear space between studs. Holes in shear wall sheathing shall be limited to 6" diameter (max), spaced at a minimum of 3 diameters on center. The accumulated length of openings in a shear wall shall not exceed 20% of the wall length, unless noted otherwise.



NORTH

1 FLOOR PLAN - LEVEL 1
SE001 SCALE: 1/8" = 1'-0"



NORTH

2 ROOF FRAMING PLAN
SE001 SCALE: 1/8" = 1'-0"

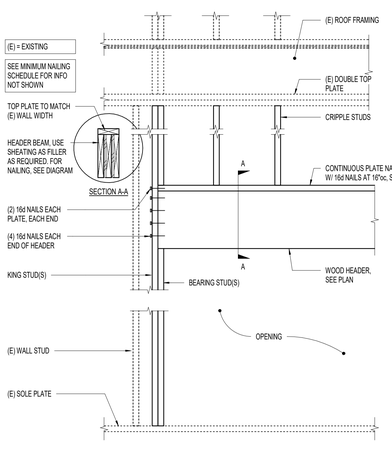
MINIMUM NAILING SCHEDULE

CONNECTION	NAILING
BRDG TO JST, TOE NAIL EA END	(2) 8d
BOTTOM PL TO JST OR BLK, FACE NAIL	16d AT 1'-4"oc OR 3" x 0.131 AT 1'-0"oc
STUD TO TOP OR BOTTOM PLATE, END NAIL	(2) 16d OR (3) 3" x 0.131
STUD TO STUD, FACE NAIL	16d AT 2'-0"oc OR 3" x 0.131 AT 1'-4"oc
TOP PL TO TOP PL, FACE NAIL	16d AT 1'-4"oc OR 3" x 0.131 AT 1'-0"oc
BLK BTWN JST OR RAFTERS TO TOP PL, TOE NAIL	(3) 10d
RIM JST TO TOP PL, TOE NAIL	8d AT 0'-6"oc
TOP PL, LAPS AT WALL INTERSECTION, FACE NAIL	(2) 16d OR (3) 3" x 0.131
CONT HEADER, TWO PIECES	16d AT 1'-4"oc ALONG EA EDGE OR 16d BOX AT 1'-0" ALONG EA EDGE
CEILING JST TO PL, TOE NAIL	(3) 8d
CONT HEADER TO STUD, TOE NAIL	(4) 8d
CEILING JST, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d OR (4) 3" x 0.131
RAFTER TO PL, TOE NAIL	(3) 8d
1" BRACE TO EA STUD AND PL, FACE NAIL	(2) 8d
STUD TO STUD AT WALL CORNERS	16d AT 1'-4"oc OR 3" x 0.131 AT 1'-0"oc
BUILT-UP GIRDER AND BM	3" x 0.131 AT 24"oc AT TOP AND BOTT AND STAGGERED, (3) 3" x 0.131 AT ENDS AND AT EA SPLICE
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
ROOF RAFTER TO 2x RIDGE BM OR HIP TOE NAIL END NAIL	(3) 10d (2) 16d OR (3) 3" x 0.131
JST TO BAND JST, END NAIL	(3) 16d OR (4) 3" x 0.131
LEDGER STRP, FACE NAIL AT EA JOIST	(3) 16d OR (4) 3" x 0.131
"PLYWOOD AND PARTICLEBOARD:	
SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	
1/2" AND LESS	8d
19/32" - 3/4"	8d OR 10d
1 1/8" - 1 1/4	10d
COMBINATION SUB FLOOR - UNDERLAYMENT (TO FRAMING)	
3/4" AND LESS	8d
7/8" - 1"	8d OR 10d
7/8" - 1 1/4"	10d

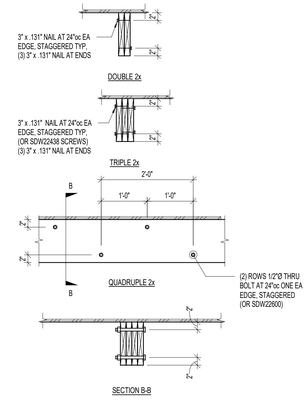
*NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS, EXCEPT 6" INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF DIAPHRAGMS AND SHEAR WALLS, REFER TO THE APPROPRIATE SCHEDULE.

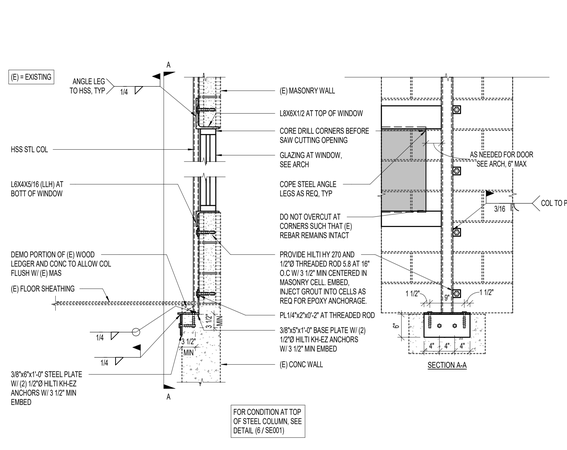
NOTES:
1. ALL NAILS ARE COMMON NAILS, UNO.
2. EXCERPT FROM IBC TABLE 2304.10.1. ADD'L NAILING OPTIONS NOT SHOWN MAY BE USED, EXCLUDING STAPLES.
3. NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE ON THE PLANS OR DETAILS.

3 MINIMUM NAILING SCHEDULE
SE001 NO SCALE:

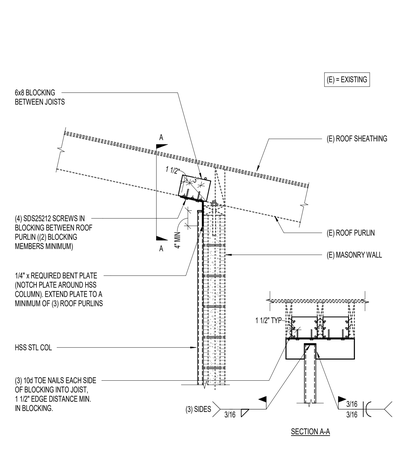


4 TYPICAL WOOD HEADER DETAIL
SE001 NO SCALE:





5 STEEL COLUMN AT NEW WINDOW DETAIL
SE001 NO SCALE:



6 STEEL COLUMN SUPPORT AT ROOF
SE001 NO SCALE:

GSBS ARCHITECTS

375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101

P 801.521.8600
F 801.521.7791

www.gsbsarchitects.com

REVISIONS:

07/21/2025
CONSTRUCTION DOCUMENTS

NOTE:
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 07/21/2025

DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, i.e. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

DUNN ASSOCIATES, INC
Consulting Structural Engineers
WWW.DUNN-SE.COM
PH: 801-575-8877

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 MONROE BLVD, OGDEN UT 84401

OGDEN CITY

OWNER PROJECT NO.:
DUNN PROJECT NO.: 240268
ISSUED DATE: 07/21/2025

PLANS AND DETAILS

SE001 REV

OGDEN CITY PUBLIC WORKS BALLISTIC RETROFIT

OGDEN, UTAH

PROJECT MECHANICAL GENERAL NOTES

1. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.

2. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY. THE MOST STRINGENT WILL WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH.

3. THE EQUIPMENT SPECIFIED ON THE DRAWINGS HAVE BEEN SELECTED AS THE BASIS OF DESIGN. THE USE OF REVIEWED OR APPROVED EQUALS SHALL BE COORDINATED BY THE CONTRACTOR FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR SPACE REQUIREMENTS, EQUIPMENT DIMENSIONS, AND PERFORMANCE WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE: FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.

4. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL DESIGN INTENT, ARRANGEMENT, AND GENERAL EXTENT OF SYSTEMS. DO NOT SCALE DRAWINGS NOR USE AS SHOP DRAWINGS. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. THIS CONTRACTOR SHALL FIELD MEASURE/VERIFY ALL MECHANICAL/PLUMBING ITEMS PRIOR TO STARTING NEW WORK AND MAKE ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS WITHIN THE AVAILABLE SPACE. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT. WHERE ALTERNATIVE ROUTING, OFFSETS, AND TRANSITIONS ARE REQUIRED FOR FIELD COORDINATION OF ALL OTHER TRADES, THIS CONTRACTOR SHALL FIELD COORDINATE WITH ALL OTHER TRADES, AND SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.

6. PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.

7. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN EQUIPMENT SCHEDULE & SPECIFICATIONS TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.

8. M.C & PC. TO PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT/ENGINEER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS WITHIN 60 DAYS OF SUBSTANTIAL COMPLETION.

9. ALL FLOW RATES, PRESSURES, AND TEMPERATURES MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE A FINAL BALANCE REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO THE FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. T.A.B. CONTRACTOR BY GENERAL CONTRACTOR.

10. EACH TRADE IS RESPONSIBLE FOR THE INSTALLATION OF LISTED FIRESTOPPING SYSTEMS AT PENETRATION OF RATED ASSEMBLIES. ACCESSORIES & FIXTURES (i.e. CLEANOUTS, DRYER BOXES, WASHING MACHNE BOXES) INSTALLED IN FIRE RATED WALLS SHALL UTILIZE A TESTED UL FIRE STOP ASSEMBLY.

11. HOUSEKEEPING PADS FOR ALL EQUIPMENT ARE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE HOUSE-KEEPING PADS FOR ALL MECHANICAL EQUIPMENT INSTALLED AT GRADE &/OR ON FINISHED SLAB.

12. CONTRACTORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE. WHEN MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FORM ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK.

13. PLUMBING CONTRACTOR MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR PLUMBING COMPONENTS. PROVIDE ACCESS PANELS FOR EQUIPMENT INSTALLED ABOVE HARD LID CEILINGS. COORDINATE ACCESS PANEL LOCATIONS AND SIZES WITH G.C. ACCESS PANELS SHALL BE LARGE ENOUGH TO REMOVE EQUIPMENT WITHOUT DAMAGING PERMANENT CONSTRUCTION. INSTALL VALVES AND APPURTENANCES IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.

14. CONTRACTOR TO PROVIDE SEISMIC ENGINEERED DRAWINGS AND DETAILS FOR ALL MECHANICAL AND PLUMBING ITEMS REQUIRING SEISMIC/WIND LOAD BRACING. THE DRAWINGS SHALL BE STAMPED BY A QUALIFIED SEISMIC ENGINEER. THE DRAWINGS SHALL INCLUDE DESIGN FOR ALL BRACING OF EQUIPMENT INCLUDING TYPE OF FASTENERS AND QUANTITY OF CONNECTIONS AS WELL AS CONNECTIONS OF CURBS TO THE BUILDING STRUCTURE. SUBMIT THE DRAWINGS TO THE MECHANICAL ENGINEER AND TO THE CITY AS A DEFERRED SUBMITTAL. ANY INFORMATION ON THESE DRAWINGS RELATED TO SEISMIC IN THIS DRAWING SET ARE MINIMUM SUGGESTIONS ONLY. SEISMIC DRAWINGS SHALL TAKE PRECEDENCE.

15. COORDINATE ALL FIRE SPRINKLER HEADS AND AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.

16. FIRE SPRINKLER CONTRACTOR SHALL ADD AND/OR RELOCATE SPRINKLER HEADS PER REFLECTED CEILING PLAN AND THE CURRENT ADOPTED EDITION OF NFPA AND BUILDING CODE.

17. DUCTWORK SHALL BE INSULATED PER IECC 403.11.1:
   A. SUPPLY AND RETURN DUCTWORK OUTSIDE OF BUILDING SHALL BE INSULATED WITH MIN. R-12
   B. SUPPLY AND RETURN DUCTWORK IN UNCONDITIONED SPACES (INSIDE BUILDING BUT OUTSIDE ENVELOPE) INCLUDING SHAFTS, VENTILATED ATTICS AND VENTILATED CRAWLSPACES SHALL BE INSULATED WITH MIN. R-6
   C. SUPPLY AND RETURN DUCTWORK INSIDE OF BUILDING IS NOT REQUIRED TO BE INSULATED, WITH THE FOLOWING EXCEPTIONS
      a. ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK WILL RECIEVE 1" DUCT LINER FOR SOUND ABATEMENT PURPOSES.

18. ALL DUCTWORK IS TO BE COMPLETELY SEALED USING DESIGN POLYMERS DP1010 DUCT SEALER OR APPROVED EQUAL.

19. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.

20. THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL HIGH PRESSURE DUCTWORK SHALL BE CONSTRUCTED FOR 2" W.C. STATIC PRESSURE, SEAL CLASS "A". ALL OTHER DUCTWORK, UNLESS OTHERWISE NOTED, SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS "B".

21. ALL DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.

22. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

23. MECHANICAL CONTRACTOR IS TO COORDINATE WITH ELECTRICAL ON SIZE/QUANTITY OF MOTORIZED DAMPERS. I. E. FIRE/SMOKE DAMPERS, FIRE DAMPERS, MOTORIZED DAMPERS, ETC. . .

24. EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING.

25. MECHANICAL CONTRACTOR MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR FCU'S, VALVES, FLOW METERS, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR. PROVIDE ACCESS PANELS FOR EQUIPMENT INSTALLED ABOVE HARD LID CEILINGS. COORDINATE ACCESS PANEL LOCATIONS AND SIZES WITH EQUIPMENT AND CEIILINGS. ACCESS PANELS SHALL BE LARGE ENOUGH TO REMOVE EQUPMENT WITHOUT DAMAGING PERMANENT CONSTRUCTION.

26. HOUSEKEEPING PADS FOR ALL EQUIPMENT ARE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

27. ALL TAKE-OFF'S THROUGHOUT THE ENTIRE BUILDING SHALL BE HIGH EFFICIENCY TAKE-OFF'S (HET'S).

28. ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.

29. VFD'S ARE TO BE PROVIDED BY MECHANICAL AND WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR.

30. ALL GAS METER REGULATORS ARE TO BE VENTED TO THE OUTSIDE OF THE BUILDING BY THE MECHANICAL CONTRACTOR OR PROVIDE / INSTALL VENTLESS REGULATORS IF ALLOWED BY THE LOCAL JURISDICTION. VENT PIPING for REGULATORS ARE not shown on the plans FOR CLARITY.

31. ALL FIRE DAMPERS SHOWN ON PLANS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555. ALL SMOKE DAMPERS SHOWN ON PLANS SHALL COMPLY WITH UL 555S. ALL COMBINATION FIRE / SMOKE DAMPERS SHOWN ON PLANS ARE TO COMPLY WITH BOTH UL 555 AND UL 555S. FOR ALL FIRE DAMPERS CONTRACTOR IS TO PROVIDE / INSTALL "NCA MODEL FD" (OR EQUAL), TO MEET STANDARD UL 555 RATING. FOR ALL SMOKE DAMPERS AND COMBINATION FIRE SMOKE DAMPERS CONTRACTOR IS TO PROVIDE / INSTALL "NCA MODEL FSD-3V-211" (OR EQUAL), TO MEET STANDARD UL 555 AND UL 555S RATINGS.

32. THE MECHANICAL CONTRACTOR IS TO HAVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH TYPE OF FIRE DAMPER, SMOKE DAMPER, AND COMBO FIRE / SMOKE DAMPERS ON THE JOB SITE AT TIME OF INSPECTIONS.

33. ALL DUCTWORK IS TO BE PROVIDED / INSTALLED AS HIGH UP AS POSSIBLE. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 12" FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 12" FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.

34. ALL DUCT ELBOWS ARE TO BE PROVIDED / INSTALLED WITH RADIUS ELBOWS. ANY ALTERATIONS OR CHANGES IN DUCTWORK FROM WHAT IS SHOWN ON THE PLANS MUST BE PRE-APPROVED BY THE ENGINEER IN WRITING PRIOR TO ORDERING, FABRICATION, OR INSTALLATION

35. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING, INSTALLING, AND FILLING OUT GREEN GAS COMPLIANCE STICKERS FOR ALL GAS FIRED APPLIANCES. CONTRACTOR IS TO INSTALL ONE STICKER PER EVERY GAS FIRED APPLIANCE.

36. ALL T-STATS MUST BE MOUNTED AT 48" A.F.F. TO THE TOP OF THE STAT. ALL THERMOSTAT LOCATIONS ON THE PLANS SHALL COORDINATED WITH FURNITURE PLANS AND VERIFIED WITH OWNER PRIOR TO ROUGH-IN. T-STAT SHALL BE 7 DAY PROGRAMMABLE

37. ALL EXHAUST AIR DUCTS ARE TO TERMINATE A MINIMUM OF 3' FROM ANY BUILDING OPENINGS AND 10' FROM ALL MECHANICAL AIR INTAKES.

38. ALL GRILLES, REGISTERS AND DIFFUSERS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES BY THE GENERAL CONTRACTOR. FINAL COLOR TO BE DETERMINED BY ARCHITECT. ALL GRILLES ARE TO COME PRIMED FROM THE FACTORY AND FINAL PAINTING TO BE DONE IN FIELD BY G.C. GRILLES ARE TO BE PAINTED PRIOR TO FINAL INSTALLATION.

39. ALL EXTERIOR WALL VENTS, GRILLES, OR PIPING IS TO BE SELECTED OR PAINTED BY THE GENERAL CONTRACTOR TO MATCH THE ADJACENT SURFACE. SEE ARCHITECTURAL ELEVATIONS FOR EXACT EXTERIOR VENT LOCATIONS.

40. CONTRACTORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE. WHEN MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FORM ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK. IF THIS IS NOT DONE, ITS THE CONTRACTOR'S FULL RESPONSIBILITY TO COVER ALL COSTS

41. MECHANICAL CONTRACTOR TO PROVIDE STAMPED AND SIGNED SEISMIC DRAWINGS AND DETAILS FOR ALL MECHANICAL AND PLUMBING ITEMS. SUBMIT THESES DRAWINGS TO THE ENGINEER AND TO THE CITY AS A DEFERRED SUBMITTAL.

42. WHERE NON-OCCUPIABLE SPACES ARE TO BE USED FOR ENVIRONMENTAL AIR MOVEMENT, ALL MATERIALS INSTALLED SHALL BE NON-COMBUSTABLE OR SHALL LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM 84 OR UL 723.

43. ALL BALANCING DAMPERS FOR OUTSIDE AIR SERVING AC UNITS ARE TO BE AUTOFLOW DAMPERS UNLESS OTHERWISE NOTED ON THE DRAWINGS. AUTO FLOW DAMPERS ARE TO BE UNITED ENERTECH MODEL CR OR EQUAL.

44. VFD'S AND LINE REACTORS TO BE PROVIDED BY MECHANICAL. INSTALLED AND WIRED BY ELECTRICAL.

HVAC SYMBOLS

ANNOTATIONS

- INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL, EQUIPMENT, PIPING OR DUCTWORK.
- A — PLAN NOTE CALLOUT
- # / P-## — DETAIL REFERENCE. UPPER # INDICATES DETAIL # & LOWER # INDICATES SHEET #.
- # / P-## — SECTION CUT DESIGNATION. UPPER # INDICATES VIEW # & LOWER # INDICATES SHEET #.
- XX / # — MECHANICAL EQUIPMENT DESIGNATION. REFER TO MECHANICAL SCHEDULES.
- XX-# — PLUMBING FIXTURE DESIGNATION. REFER TO PLUMBING FIXTURE SCHEDULE.
- XXX / ### — REGISTER, GRILLE, OR DIFFUSER DESIGNATION. REFER TO DIFFUSER & GRILLE SCHEDULE. PLAN CODE ON TOP AND AIR VOLUME (CFM) ON BOTTOM.

DUCTWORK NOTATION

- 12"x10" SA — AIR VOLUME (CFM), UP TO THIS POINT, @ AIR VELOCITY (FPM), WHERE APPLICABLE.
- MECHANICAL SYSTEM TYPE
- DUCT SIZE IN INCHES
- ##"x##" — RECTANGULAR DUCT SIZE IN WIDTH (INCH) BY HEIGHT (INCH)
- ##"x##" F.O. — FLAT OVAL DUCT SIZE IN WIDTH (INCH) BY HEIGHT (INCH)
- ##"ø — ROUND DUCT DIAMETER SIZE (INCH)

LINETYPE LEGEND

EXISTING	DEMOLISHED
NEW	TEMPORARY
FUTURE	

DIFFERENT LINETYPES AND SYMBOLS ARE USED THROUGHOUT DRAWINGS TO INDICATE THE CONSTRUCTION PHASE. THE STATUS OF ELEMENTS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR, AND IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING. THESE DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT.
IF THERE ARE ANY DISCREPANCIES CONTRACTOR IS TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGINEER. THE EXISTING DOCUMENTS ARE AVAILABLE THROUGH THE ARCHITECT.

HATCHING LEGEND

- ENLARGED PLAN
- NOT IN SCOPE (NIS)

DUCTWORK LINETYPES (LINETYPES ARE IN COLOR)

SA	SUPPLY AIR
OA	OUTSIDE AIR (VENTILATION)
RA	RETURN AIR
TA	TRANSFER AIR
EXH	GENERAL EXHAUST
G.EXH	GREASE EXHAUST
G.EXH(F)	GREASE EXHAUST FUTURE
DV	DRYER VENT
FLUE	GASEOUS COMBUSTION PRODUCT
CA	COMBUSTION AIR

HVAC CONTROL DEVICES

- T / T RTU# — THERMOSTAT (MOUNTED AT 48" A.F.F. UNO)
- H — HUMIDISTAT (MOUNTED AT 48" A.F.F. UNO)
- TS — TEMPERATURE SENSOR
- HS — HUMIDITY SENSOR
- SP — STATIC PRESSURE
- DP — DIFFERENTIAL PRESSURE SENSOR
- CO — CARBON MONOXIDE SENSOR
- CO_2 — CARBON DIOXIDE SENSOR
- NO_2 — NITROGEN DIOXIDE SENSOR
- CP / MAU? — CONTROL PANEL
- ATC — AUTOMATED TEMPERATURE CONTROL
- TRX — CONTROL TRANSFOMER

DUCTWORK & ACCESSORIES

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- ACCESS PANEL
- DUCT TRANSITION
- SQUARE TO ROUND DUCT TRANSITION
- DUCT GOING ABOVE
- DUCT GOING BELOW
- HIGH EFFICIENCY TAKEOFF W/ VOLUME CONTROL DAMPER, OR BRANCH DUCT W/ 45° FITTING AND VOLUME CONTROL DAMPER.
- OPPOSED BLADE DAMPER, MANUAL DAMPER.
- M — MOTORIZED CONTROL DAMPER
- F / 1 HR — FIRE DAMPER, W/ WALL RATING BELOW BOXED CALLOUT (SEE PLANS)
- S — SMOKE DAMPER
- F/S / 2 HR — FIRE/SMOKE DAMPER, W/ WALL RATING BELOW BOXED CALLOUT (SEE PLANS)
- RAD — RADIATION DAMPER
- DUCT MOUNTED SMOKE DETECTOR

ABBREVIATIONS

A/C	AIR CONDITIONING	MBH	1,000 BTU PER HOUR
ACC	AIR COOLED CHILLER	MD	MOTORIZED DAMPER
A.F.C.	ABOVE FINISHED CEILING	MFR	MANUFACTURER
A.F.F.	ABOVE FINISHED FLOOR	MIN	MINIMUM
A.F.G.	ABOVE FINISHED GRAGE	MOP	MAXIMUM OVER-CURRENT PROTECTION
AHU	AIR HANDLING UNIT	N/A	NOT APPLICABLE
ATC	AUTOMATED TEMP CONTROL	N.C.	NORMALLY CLOSED VALVE
APD	AIR PRESSURE DROP	N.O.	NORMALLY OPEN VALVE
BAS	BUILDING AUTOMATION SYSTEM	NC	NOISE CRITERIA
BD	BACKDRAFT DAMPEER	NIC	NOT IN CONTRACT
BFC	BELOW FINISHED CEILING	OA	OUTSIDE AIR
BFF	BELOW FINISHED FLOOR	PHIØ	PHASE
BFG	BELOW FINISHED GRADE	QTY	QUANTITY
BOD	BOTTOM OF DUCT	RA	RETURN AIR
BOS	BOTTOM OF STRUCTURE	RC	ROOM CRITERIA
BTU	BRITISH THERMAL UNIT	REA	RELIEF AIR
CFM	CUBIC FEET PER MINUTE	RF	RETURN FAN
CLG	COOLING	RFR	REFRIGERANT
CP	CONDENSATE PUMP	RH	RELATIVE HUMIDITY
CPT	CONTROL POWER TRX	RPM	REVOLUTIONS PER MINUTE
CRU	COMPUTER ROOM UNIT	RTU	ROOFTOP UNIT
CU	CONDENSING UNIT	SA	SUPPLY AIR
DB	DECIBELS	SD	SMOKE DUCT DETECTOR
DBA	DECIBEL AVERAGE	SF	SQUARE FOOTAGE
DDC	DIRECT DIGITAL CNTRL	SF	SUPPLY FAN
DISC	DISCONNECT	SH	SENSIBLE HEAT CAPACITY
DX	DIRECT EXPANSION	SIM	SIMILAR
(E)	EXISTING	SOW	SCOPE OF WORK
EA	EXHAUST AIR	SP	STATIC PRESSURE
EAT	ENTERING AIR TEMP.	SS	STAINLESS STEEL
EDB	ENTERING DRY BULB	TA	TRANSFER AIR
EF	EXHAUST FAN	TBD	TO BE DETERMINED
EFF	EFFICIENCY	TFA	TO FLOOR ABOVE
ESP	EXTERNAL STATIC PRESSURE	TFB	TO FLOOR BELOW
ETR	EXISTING TO REMAIN	TH	TOTAL HEAT CAPACITY
EWB	ENTERING WET BULB	T&P	TEMPERATURE & PRESSURE
F&I	PROVIDE, FURNISH AND INSTALL	TRX	TRANSFOMER
FCU	FAN COIL UNIT	TSP	TOTAL STATIC PRESSURE
FLA	FULL LOAD AMP	TYP	TYPICAL
FPI	FINS PER INCH	UH	UNIT HEATER
FPM	FEET PER MINUTE	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACTOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME VELOCITY
HP	HORSE POWER	VEL	VELOCITY
HTG	HEATING	VFD	VARIABLE FREQUENCY DRIVE
HZ	HERTZ	VRF	VARIABLE REFRIGERANT FLOW
IN. WC.	INCHES OF WATER COLUMN	W/	WITH
KW	KILOWATT	W/O	WITHOUT
LAT	LEAVING AIR TEMP.	BW	WET BULB
LDB	LEAVING DRY BULB	WC	WATER COLUMN
L.O.C.	LIMIT OF CONTRACT		
LWB	LEAVING WEB BULB		
MAU	MAKE-UP AIR UNIT		
MAX	MAXIMUM		
MCA	MINIMUM CURRENT AMPACITY		

GRD TYPE SCHEDULE

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN. COORDINATE MOUNTING FRAME W/ CEILING TYPE.

PLAN CODE	TYPE & DUTY	NECK SIZE	AIRFLOW (CFM)	NOISE CRITERIA NC	THROW (FT)@ 150 FPM	THROW (FT)@ 100 FPM	THROW (FT)@ 50 FPM	MANUFACTURER & MODEL NO.	REMARKS
1	16x6 SUPPLY LVRD GRILLE	16 in/6 in	520 CFM	31	19	24	33	PRICE 520D SERIES	A3, B1, B2A, B3B, B6D
2	24x24 SUPPLY SQR PLAQUE	8 ina	349 CFM	27	4	6	10	PRICE SPD SERIES	A3
E	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>
GS612	12x6 SUPPLY LVRD GRILLE	12 in/6 in	390 CFM	30	11	13	18	PRICE 520D SERIES	A3, B1, B2A, B3B, B6D

DUCT INSULATION TABLE

PER IECC-2018 C403.11

SYSTEM	DUCT TYPE	LINED OR WRAPPED	REQUIRED R-VALUE
SUPPLY, RETURN, & PRE-TREATED OUTSIDE AIR	• LOW PRESSURE SPIRAL (ROUND AND OVAL) • LOW PRESSURE RECTANGULAR • DUCTWORK INSTALLED IN SHAFT, VENTED ATTICS, VENTED CRAWLSPACES • DUCTWORK INSTALLED OUTSIDE THE BUILDING • ROUND FLEXIBLE DUCT (MAX 6' LONG) • MEDIUM PRESSURE SPIRAL (ROUND AND OVAL) • MEDIUM PRESSURE RECTANGULAR	NOT REQUIRED LINED WRAPPED DOUBLE WALL N/A WRAPPED WRAPPED	N/A R-4 R-6 R-12 R-4 R-6 R-6
UN-TREATED OUTSIDE AIR	• SPIRAL (ROUND AND OVAL) • LOW PRESSURE RECTANGULAR • DUCTWORK INSTALLED IN SHAFT, VENTED ATTICS, VENTED CRAWLSPACES • DUCTWORK INSTALLED OUTSIDE THE BUILDING • ROUND FLEXIBLE DUCT (MAX 6' LONG)	WRAPPED WRAPPED WRAPPED DOUBLE WALL N/A	R-6 R-6 R-6 R-12 R-4
EXHAUST AIR	• SPIRAL (ROUND AND OVAL) • LOW PRESSURE RECTANGULAR • DUCTWORK INSTALLED IN SHAFT • DUCTWORK INSTALLED OUTSIDE THE BUILDING	NOT REQUIRED NOT REQUIRED NOT REQUIRED DOUBLE WALL	N/A R-4 R-6 R-12

BASIS OF DESIGN

CODES (INCLUDING LOCAL AMENDMENTS)

2021	INTERNATIONAL MECHANICAL CODE (IMC)
2021	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2021	INTERNATIONAL BUILDING CODE (IBC)
2021	INTERNATIONAL PLUMBING CODE (IPC)
5B	CLIMATE ZONE

DESIGN TEMPERATURES

SUMMER: 98.3°F DB / 62.6°F WB (OUTDOORS-COOLING)
75°F DB / 50% RH (INDOORS)
WINTER: 8.0°F DB (OUTDOORS - HEATING)
70°F DB (INDOORS)

ELEVATION: 4239 FEET ABOVE SEA LEVEL

INSULATION FIRE RATING & FIRE DAMPER NOTES:

THERMAL AND SOUND INSULATION COVERING WHICH ARE INSTALLED IN CONCEALED AND EXPOSED SPACES AND AS COVERING PIPING AND TUBING SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450.

THERMAL AND SOUND INSULATION COVERING WHICH ARE INSTALLED IN CONCEALED PLENUM SPACES AND AS COVERING PIPING AND TUBING SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-50

FIRE DAMPERS MUST BE UL555 LISTED AND CONTROLLED BY AN AUTOMATIC FIRE DETECTOR, FUSIBLE LINK OR AN ELECTRICAL FUSIBLE LINK.

SMOKE DAMPERS MUST BE UL555S LISTED AND CONTROLLED BY AN AUTOMATIC SMOKE DETECTOR,EITHER IN THE DUCT WORK OR THE AREA OF SMOKE DETECTION.

FIRE SMOKE DAMPERS MUST BE UL555/UL555S LISTED AND CONTROLLED BY AN AUTOMATIC FIRE DETECTOR AND FUSIBLE LINK OR AN ELECTRICAL FUSIBLE LINK.

MECHANICAL SHEET LIST

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

PVE
MECHANICAL & ELECTRICAL CONSULTING ENGINEERS, LLC.
1040 N 2200 WEST | SALT LAKE CITY, UT
T: 801.359.3158 www.pve-ut.com

Joshua Elliott — Registered — 8357201 — State of Utah

03/12/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

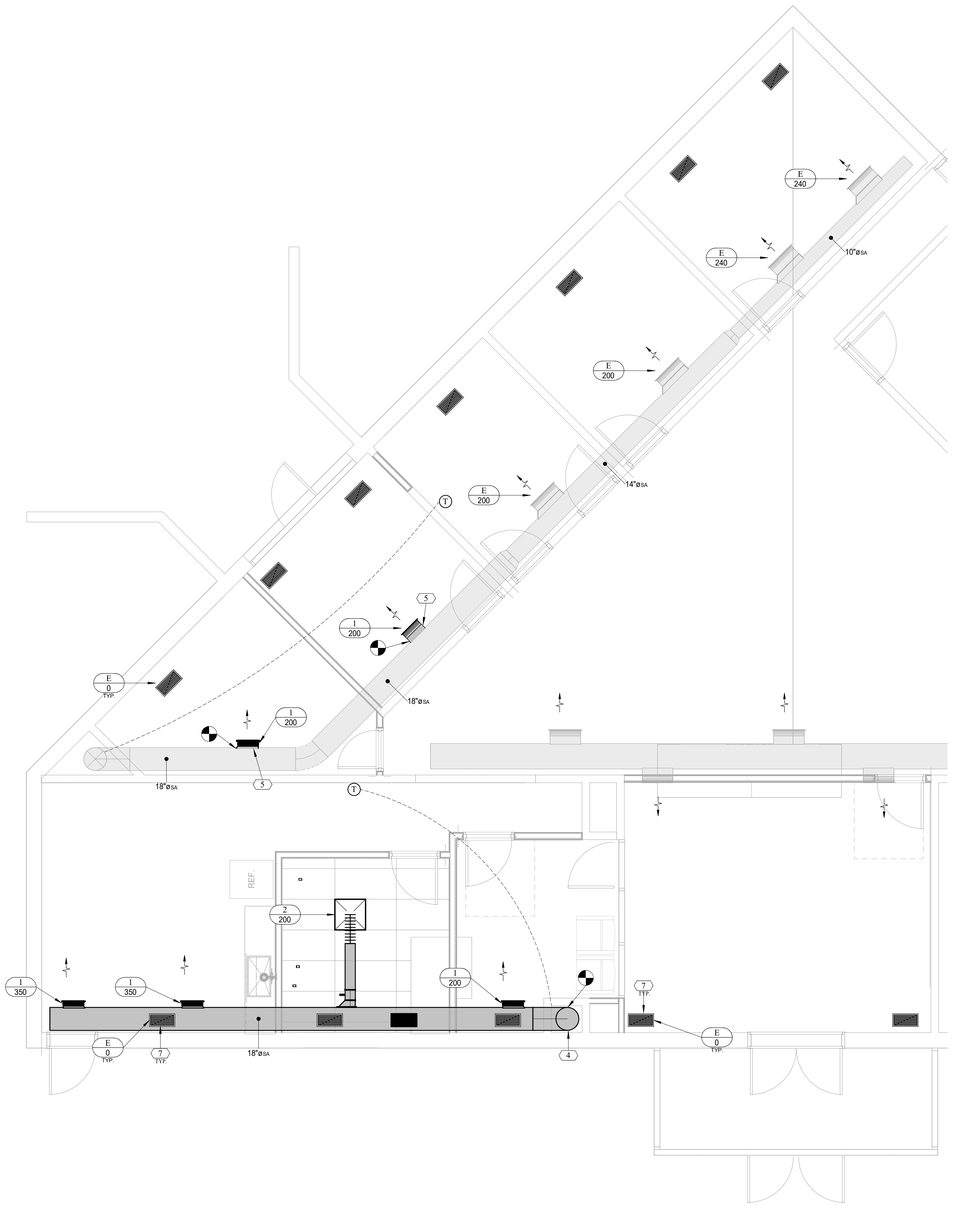
OGDEN CITY

133 W 29th Street, Ogden, UT 84401

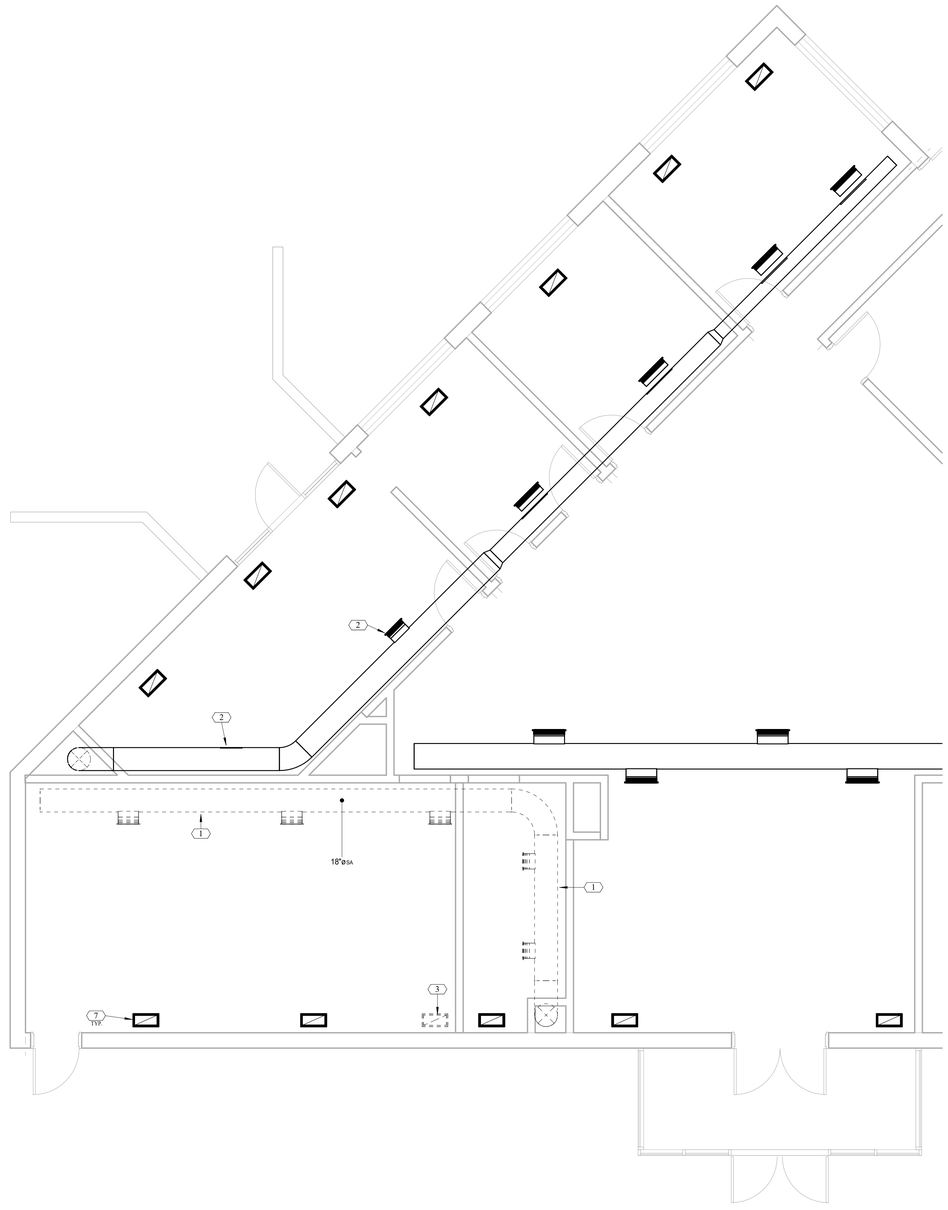
OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

General Notes & Legends

M000 REV



1 MECHANICAL PLAN
M201 SCALE: 1/4" = 1'-0"



2 MECHANICAL DEMO FLOOR PLAN
M201 SCALE: 1/4" = 1'-0"

MECHANICAL KEY NOTES

1. REMOVE TRUNK LINE ON LEVEL 2 AS SHOWN. REMOVE ALL ASSOCIATED TAPS. REUSE AS MUCH DUCTWORK AS POSSIBLE FOR NEW DESIGN. SEE 1/M201 FOR MORE INFORMATION.
2. REMOVE DUCT TAP AS SHOWN. RELOCATE TO NEW LOCATION AS SHOWN IN 1/M201.
3. REMOVE RETURN GRILLE IN FLOOR. RELOCATE TO NEW LOCATION SHOWN IN 1/M201.
4. CONNECT DUCT TO RISER COMING THROUGH FLOOR AS SHOWN. REUSE EXISTING DUCTWORK AS MUCH AS POSSIBLE.
5. CONNECT TAPS TO EXISTING DUCT AS SHOWN. REUSE EXISTING DIFFUSERS AS MUCH AS POSSIBLE.
6. RETURN DIFFUSERS LOCATED IN FLOOR.

MECHANICAL GENERAL NOTES

A. ALL FIRE SMOKE DAMPERS ARE TO BE 120V AND ARE TO BE CONTROLLED BY FIRE ALARM CONTRACTOR AND INTERLOCKED WITH FIRE SYSTEM. DAMPERS TO BE UL LISTED TO MEET OR EXCEED THE RATING OF THE WALLS.

B. CONTRACTOR IS TO PROVIDE / INSTALL ALL DUCTWORK AS HIGH UP AS POSSIBLE AND TIGHT TO BOTTOM OF BEAMS / JOISTS.

C. CONTROLS CONTRACTOR TO COORDINATE FINAL LOCATIONS OF ALL T-STATS WITH OWNER / ARCHITECT PRIOR TO ANY INSTALLATION.

D. ALL DUCT ELBOWS ARE TO BE RADIUS ELBOWS WHERE EVER POSSIBLE TO INSTALL. IF SPACE CONSTRAINTS DOWN ALLOW FOR THEM TO BE INSTALLED, RADIUS HEEL ELBOWS ARE TO BE USED.

E. ALL DUCT TAKE-OFFS ARE TO BE HIGH EFFICENCY TAKE-OFFS (HETS)

F. CONTRACTOR TO PROVIDE / INSTALL ACCESS PANELS FOR ALL EQUIPMENT, DAMPERS, ETC. LOCATED ABOVE HARD LID CEILINGS AS REQURIED.

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

PVE
MECHANICAL & ELECTRICAL
CONSULTING ENGINEERS, LLC.
1040 N 2200 WEST | SALT LAKE CITY, UT
T: 801.359.3158 www.pve-ut.com

03/12/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

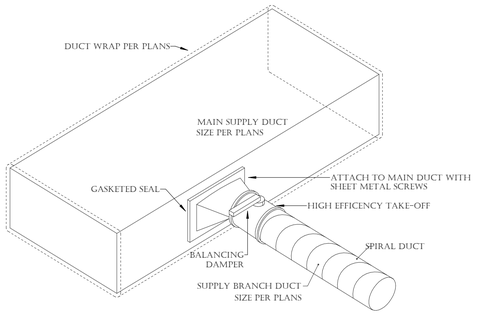
OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

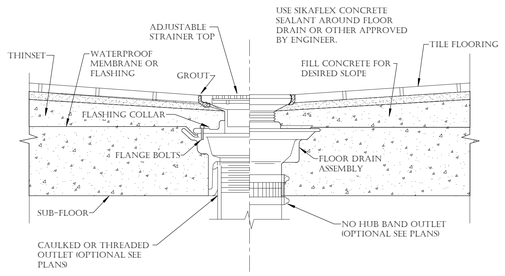
Mechanical Plan

M201 REV

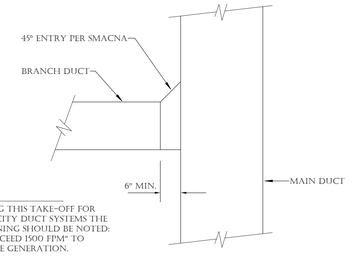


5 HIGH EFFICIENCY DUCT TAKEOFF DETAIL SQUARE
M501 SCALE: 1/8" = 1'-0"

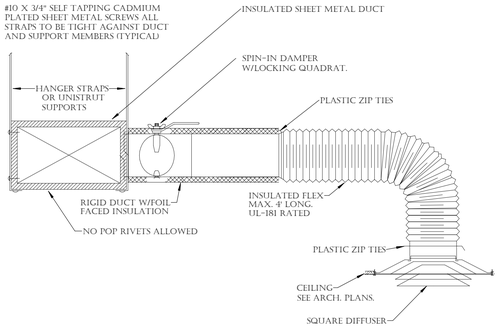
NOTE: THIS IS A TYPICAL FLOOR DRAIN INSTALLATION. FOR DIFFERENT TYPES OF FLOORING THE TOP FINISH (SHOWN AS THINSET AND TILE) MAY DIFFER FROM WHAT'S SHOWN. SEE ARCHITECTURAL PLANS FOR FLOORING TYPES.



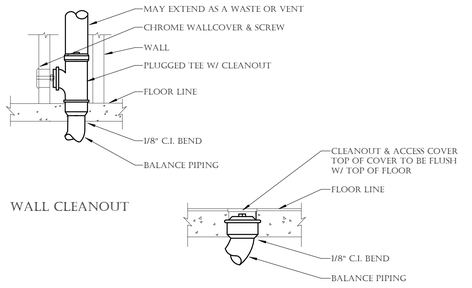
1 TYPICAL FLOOR DRAIN / SINK DETAIL
M501 SCALE: 1/8" = 1'-0"



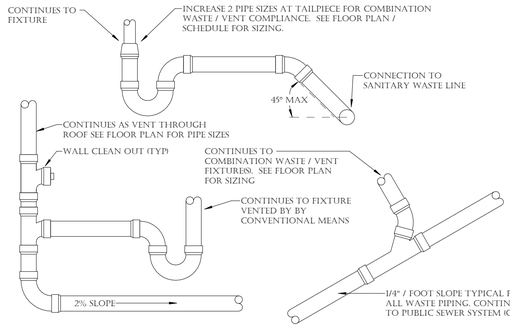
6 TYPICAL DUCT TAKEOFF DETAIL
M501 SCALE: 1/8" = 1'-0"



2 DIFFUSER MOUNTING DETAIL (SQUARE)
M501 SCALE: 1/8" = 1'-0"

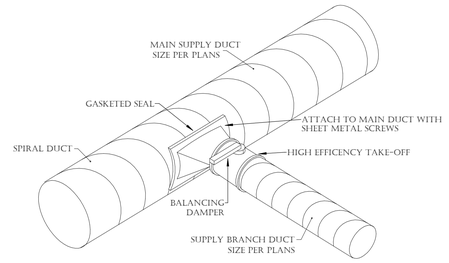


7 CLEANOUT DETAIL
M501 SCALE: 1/8" = 1'-0"



*PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE H611 OF THE CALIFORNIA PLUMBING CODE AND IN CHAPTER 6 OF THIS CODE.

3 TYPICAL WASTE CONNECTIONS
M501 SCALE: 1/8" = 1'-0"



4 HIGH EFFICIENCY DUCT TAKEOFF DETAIL ROUND
M501 SCALE: 1/8" = 1'-0"

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

PVE
MECHANICAL & ELECTRICAL CONSULTING ENGINEERS, LLC.
1040 N 2200 WEST | SALT LAKE CITY, UT
T: 801.359.3158 www.pve-ut.com

G. Joshua Elliott REGISTERED 8357201 PROFESSIONAL ENGINEER State of Utah

03/12/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

Mechanical Details

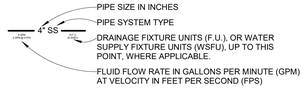
M501 REV

PLUMBING SYMBOLS

ANNOTATIONS

- INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL, EQUIPMENT, PIPING OR DUCTWORK.
- (A) PLAN NOTE CALLOUT
- (#, P-##) DETAIL REFERENCE. UPPER # INDICATES DETAIL # & LOWER # INDICATES SHEET #.
- (#, P-##) SECTION CUT DESIGNATION. UPPER # INDICATES VIEW # & LOWER # INDICATES SHEET #.
- (XX, #) MECHANICAL EQUIPMENT DESIGNATION. REFER TO MECHANICAL SCHEDULES.
- (XX-#) PLUMBING FIXTURE DESIGNATION. REFER TO PLUMBING FIXTURE SCHEDULE.

PIPING NOTATION



LINETYPE LEGEND

EXISTING	DEMOLISHED
NEW	TEMPORARY
FUTURE	

DIFFERENT LINETYPES AND SYMBOLS ARE USED THROUGHOUT DRAWINGS TO INDICATE THE CONSTRUCTION PHASE. THE STATUS OF ELEMENTS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR, AND IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING. THESE DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT.
IF THERE ARE ANY DISCREPANCIES CONTRACTOR IS TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGINEER. THE EXISTING DOCUMENTS ARE AVAILABLE THROUGH THE ARCHITECT.

HATCHING LEGEND

- ENLARGED PLAN
- NOT IN SCOPE (NIS)

PIPING LINETYPES (LINETYPES ARE IN COLOR)

SS	SANITARY SEWER
SS	SANITARY SEWER, BELOW FLOOR
V	VENT
V	VENT, BELOW FLOOR
RD	ROOF DRAIN
RD	ROOF DRAIN, BELOW LEVEL
RD	OVERFLOW DRAIN
RD	OVERFLOW DRAIN, BELOW LEVEL
CD	CONDENSATE DRAIN
ID	INDIRECT DRAIN
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
NG	NATURAL GAS LINE
F	FIRE SERVICE
GW	GREASE WASTE
SOW	SAND OIL WASTE

PIPING SYMBOLS

- ELBOW UP
- TEE UP
- PIPE CAP
- UNION
- STRAINER
- SHUTOFF VALVE
- BALL VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- GATE VALVE
- GLOBE VALVE
- NEEDLE VALVE
- DIAPHRAGM VALVE
- DRAIN OFF COCK
- GAS VALVE
- GAS PRESSURE REGULATING VALVE
- PRESSURE RELIEF SAFETY VALVE
- CHECK VALVE
- AQUASTAT
- DIGITAL PROBE THERMOMETER
- PRESSURE GAUGE W/ GAUGE COCK
- AUTOMATIC AIR VENT
- FLOW SWITCH
- PRESSURE SWITCH
- TEST PLUG
- RECIRCULATING PUMP
- FLOOR DRAIN
- FLOOR SINK
- FLOOR CLEANOUT
- GRADE CLEANOUT W/ CONCRETE PAD
- WALL CLEANOUT
- ELBOW DOWN
- TEE DOWN
- FLUID FLOW DIRECTION
- CONTINUATION SYMBOL
- VALVE W/ HOSE ADAPTER
- N.O. NORMALLY OPEN VALVE
- N.C. NORMALLY CLOSED VALVE
- CIRCUIT SETTER, (CBV) CALIBRATED BALANCING VALVE
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE
- THERMAL BALANCING VALVE
- TWO-WAY TWO POSITION CONTROL VALVE
- THREE-WAY TWO POSITION CONTROL VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- DOUBLE CHECK VALVE (DC) ASSEMBLY (LOW HAZARD)
- REDUCED PRESSURE (RP) PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (LOW or HIGH HAZARD)
- PIPE EXPANSION JOINT
- FLEXIBLE PIPE CONNECTOR
- PIPE ANCHOR
- PIPE ALIGNMENT GUIDE
- WATER HAMMER
- VENT THROUGH ROOF
- HOSE BIB SILL COCK
- HEAT TRACE

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRAGE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
B.F.F.	BELOW FINISHED FLOOR
B.F.G.	BELOW FINISHED GRADE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CU	COPPER
D.I.	DUCTILE IRON
DI	DI-IONIZED WATER
DFU	DRAINAGE FIXTURE UNIT
(E)	EXISTING
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FLA	FULL LOAD AMP
GPM	GALLONS PER MINUTE
HZ	HERTZ
I.E.	INVERT ELEVATION
IN. WC.	INCHES OF WATER COLUMN
KW	KILOWATT
L.O.C.	LIMIT OF CONTRACT
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MH	MANHOLE
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN VALVE
N.C.	NORMALLY CLOSED VALVE
PH/Ø	PHASE
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SF	SQUARE FOOTAGE
SIM	SIMILAR
SOW	SCOPE OF WORK
SS	STAINLESS STEEL
TBD	TO BE DETERMINED
TFA	TO FLOOR ABOVE
TDH	TOTAL DINAMIC HEAD
TFB	TO FLOOR BELOW
T&P	TEMPERATURE & PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT TRHOUGH ROOF
W/	WITH
W/O	WITHOUT
WC	WATER COLUMN
WSFU	WATER SUPPLY FIXTURE UNIT

FIXTURE BRANCH CONNECTIONS

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
FLOOR DRAIN	N/A	N/A	SEE PLANS	SEE PLANS
FLOOR SINK	N/A	N/A	SEE PLANS	SEE PLANS
CLEANOUTS	N/A	N/A	SEE PLANS	N/A
SILLCOCK / HYDRANT	¾"	N/A	N/A	N/A
DRINKING FOUNTAIN / ELECTRIC WATER COOLER	½"	N/A	N/A	N/A
SINK	½"	½"	2"	1 ½"
LAVATORY / HAND WASHING SINK	½"	½"	1 ½"	1 ½"
SERVICE / JANITOR'S SINK	½"	½"	3"	1 ½"
ROOF & OVERFLOW DRAIN	N/A	N/A	SEE PLANS	N/A
ICE MAKER BOX	½"	N/A	N/A	N/A
WASHING MACHINE BOX	¾"	¾"	2"	1 ½"
URINAL (FLUSH VALVE)	1 ¼"	N/A	2"	1 ½"
WATER CLOSET (FLUSH VALVE)	1 ¼"	N/A	4"	2"
WATER CLOSET (TANK)	½"	N/A	3"	1 ½"
TUBS & SHOWERS	½"	½"	2"	1 ½"

1) ALL ADA COMPLIANT SINKS/LAVS CONTRACTOR NEEDS TO PROVIDE/INSTALL LAV GUARDS FOR ALL EXPOSED TRAPS & SUPPLY LINES.
2) ALL PLUMBING SUPPLY LINE STOPS ARE TO BE INSTALL HORIZONTALLY THROUGH A VERTICAL WALL DIRECTLY BEHIND OR TO THE SIDE OF THE PLUMBING FIXTURE. INSTALLING STOPS VERTICALLY AT THE FLOOR LEVEL OR AT THE BOTTOM OF CABINETS IS NOT ALLOWED.
3) ALL FLOOR DRAINS AND FLOOR SINKS ARE TO BE PROVIDED AND INSTALL WITH DEEP SEAL TRAP GUARDS OR A FULL TRAP PRIMER.
4) ALL SHOWERS AND TUB SHOWERS NEED TO HAVE BUILT-IN BACKING 40R POTENTIAL FUTURE GRAB BARS
5) COORDINATE ALL SHOWERS ENCLOSURE SIZES & TUB STYLES WITH FLOOR PLANS

PIPING MATERIALS

SYSTEM	LOCATION	MATERIAL
DOMESTIC COLD WATER	BELOW GROUND	PE_ASTM-D3035
DOMESTIC COLD WATER	ABOVE GROUND	TYPE 'L' COPPER, PEX, CPVC
DOMESTIC HOT WATER	ABOVE GROUND	TYPE 'L' COPPER, PEX
CONDENSATE	IN RETURN AIR PLENUM	DWV COPPER, TYPE 'M' COPPER
CONDENSATE	NOT IN RETRN AIR PLENUM	PVC, PE, OR PP PIPE/TUPING
CONDENSATE	AT FCU CONNECTION	1" PVC-TO-COPPER PUSH ADAPTER (SHARKBITE, OR EQUAL)
WASTE & VENT	BELOW GRND & PRK GARAGE	SOLID CORE SCH. 40 PVC
WASTE & VENT	ABOVE GRADE	CAST IRON, ABS DWV PIPING???
ROOF & OVERFLOW DRAIN	BELOW GROUND	SOLID CORE SCH. 40 PVC
ROOF &...	ABOVE GRADE	CAST IRON, ABS DWV PIPING???

1) ALL METALLIC PIPE, FITTINGS AND PARTS OF FIXTURES BURIED IN THE GROUND SHALL BE PROTECTED BY AT LEAST (2) 3 MILS PLASTIC SLEEVE OR EQUIVALENT WRAPPING. EXPOSED FERROUS PIPING IS PROHIBITED UNDERGROUND.
2) NO TRAPEZE HANGING METHOD WILL BE ALLOWED IN THE FIELD WITHOUT INSTALLING UNISTRUT CLAMPS SPECIFICALLY DESIGNED FOR USE WITH PIPES.
3) PLASTIC PIPING IN RETURN AIR PLENUM CEILINGS SHALL BE FIREWRAPPED.

PIPE INSULATION TABLE

A. DOMESTIC HOT WATER PIPING (W/ OPERATING TEMP. BETWEEN 105F-140F):
- 1" THICK FOR PIPE SIZES < 1½"
- 1½" THICK FOR PIPE SIZES 1½" AND LARGER
- IN UNCONDITIONED SPACE: 2" THICK FOR PIPE SIZES 1/2" TO 6" & HEAT TRACED w/ MIN. 5 WATTS/FT.

B. DOMESTIC COLD WATER PIPING:
- ½" THICK FOR ALL PIPE SIZES < 1½" (WHERE CONDENSATION CONCERN)
- IN UNCONDITIONED SPACE: 2" THICK FOR PIPE SIZES ½" TO 6" & HEAT TRACED w/ MIN. 5 WATTS/FT
- (PROVIDE CONTINUOUS VAPOR BARRIER.)

INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF 0.25/INCH THICKNESS AT 75°F. ALL EXPOSED PIPING IS TO BE INSULATED AND WEATHERPROOFED. ALL EXPOSED PIPING IS TO BE INSULATED AND WEATHERPROOFED.

Minimum Pipe Insulation Thickness

per IECC-2021 C403.11.3

Fluid Operating Temp. Range & Usage (°F)	Insulation Conductivity		Nominal Pipe or Tube Size (inch)				
	Conductivity BTU x in / (h x ft² x °F)	Mean Rating Temp. (°F)	< 1	1 to < 1½	1½ to < 4	4 to < 8	> 8
>350	0.32-0.34	250	4.5	5.0	5.0	5.0	5.0
251-350	0.29-0.32	200	3.0	4.0	4.5	4.5	4.5
201-250	0.27-0.30	150	2.5	2.5	2.5	3.0	3.0
141-200	0.25-0.29	125	1.5	1.5	2.0	2.0	2.0
105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20-0.269	50	0.5	1.0	1.0	1.0	1.5

INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED. (FOR REFRIGERANT PIPING USE ARMAFLEX SHIELD OR EQUAL)

DHW DISTANCE FROM SOURCE

DHW LOOP IS TO BE ROUTED SUCH THAT THE MAXIMUM ALLOWABLE PIPE LENGTH FROM THE NEAREST SOURCE TO THE TERMINATION OF THE FIXTURE SUPPLY BE IN ACCORDANCE WITH 2018 IECC C404.5.1, USE MAXIMUM ALLOWABLE PIPE LENGTH METHOD OR MAXIMUM ALLOWABLE PIPE VOLUME METHOD. SEE TABLE ON SHEET M001, OR P001. *(ASHRAE 90.1 DHW LOOP MAY BE 10' MAX DISTANCE FROM FIXTURE)*

PIPING VOLUME AND MAXIMUM PIPING LENGTHS IECC-2018 TABLE C404.5.1

Nominal Pipe Size (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTH (feet)	
		Public lavatory faucets	Other fixtures and appliances
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1-1/4	8	0.5	8
1-1/2	11	0.5	6
>2	18	0.5	4

PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LUMBING FIXTURE MOUNTING HEIGHTS.

PLAN CODE	Description	Model
FCO1	FLOOR CLEAN OUT	J. R. SMITH 4101S (OR EQUAL)
GCO1	FLOOR CLEAN OUT	J. R. SMITH 4220C (OR EQUAL)
GDU1	GARBAGE DISPOSAL UNIT	InSinkErator: BADGER 5XP, 1/2 hp, 120V/1Ø, 6.3 Amp, FACTORY POWER CORD, 11.5" H
IMB1	ICE MAKER BOX W/ HAMMER ARRESTOR	IPS-WATER-TITE: QUARTER TURN VALVES & HAMMER ARRESTORS; IPS-GUY GRAY: WHERE FIRE RATED BOX IS NEEDED
S1	SINK - UNITS; SS 1-BOWL -29.5x15.75x9 (UNDERMOUNT)	SINK: STERLING: MCALLISTER 11600 UNDERMOUNT SINGLE BASIN; FAUCET: KOHLER CRUE 22972, PULL-DOWN, 8" GOOSENECK; PROVIDE GDU-1
WCO1	WALL CLEAN OUT	J. R. SMITH 4530 (OR EQUAL)

PROJECT PLUMBING GENERAL NOTES

1. ALL PLUMBING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
2. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY. THE MOST STRINGENT WILL WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH.
3. THE EQUIPMENT SPECIFIED ON THE DRAWINGS HAVE BEEN SELECTED AS THE BASIS OF DESIGN. THE USE OF REVIEWED OR APPROVED EQUALS SHALL BE COORDINATED BY THE CONTRACTOR FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR SPACE REQUIREMENTS, EQUIPMENT DIMENSIONS, AND PERFORMANCE WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.
4. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL DESIGN INTENT, ARRANGEMENT, AND GENERAL EXTENT OF SYSTEMS. DO NOT SCALE DRAWINGS NOR USE AS SHOP DRAWINGS. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. THIS CONTRACTOR SHALL FIELD MEASURE/EVERIFY ALL MECHANICAL/PLUMBING ITEMS PRIOR TO STARTING NEW WORK AND MAKE ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS WITHIN THE AVAILABLE SPACE. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT. WHERE ALTERNATIVE ROUTING, OFFSETS, AND TRANSITIONS ARE REQUIRED FOR FIELD COORDINATION OF ALL OTHER TRADES, THIS CONTRACTOR SHALL FIELD COORDINATE WITH ALL OTHER TRADES, AND SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
6. PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
7. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN EQUIPMENT SCHEDULE & SPECIFICATIONS TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
8. M-C & PC. TO PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT/ENGINEER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS WITHIN 60 DAYS OF SUBSTANTIAL COMPLETION.
9. ALL FLOW RATES, PRESSURES, AND TEMPERATURES MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE A FINAL BALANCE REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO THE FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. T.A.B. CONTRACTOR BY GENERAL CONTRACTOR.
10. EACH TRADE IS RESPONSIBLE FOR THE INSTALLATION OF LISTED FIRESTOPPING SYSTEMS AT PENETRATION OF RATED ASSEMBLIES. ACCESSORIES & FIXTURES (i.e. CLEANOUTS, DRYER BOXES, WASHING MACHINE BOXES) INSTALLED IN FIRE RATED WALLS SHALL UTILIZE A TESTED UL FIRE STOP ASSEMBLY.
11. HOUSEKEEPING PADS FOR ALL EQUIPMENT ARE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE HOUSE-KEEPING PADS FOR ALL MECHANICAL EQUIPMENT INSTALLED AT GRADE &/OR ON FINISHED SLAB.
12. CONTRACTORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE. WHEN MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FORM ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK.
13. PLUMBING CONTRACTOR MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR PLUMBING COMPONENTS. PROVIDE ACCESS PANELS FOR EQUIPMENT INSTALLED ABOVE HARD LID CEILINGS. COORDINATE ACCESS PANEL LOCATIONS AND SIZES WITH G.C. ACCESS PANELS SHALL BE LARGE ENOUGH TO REMOVE EQUIPMENT WITHOUT DAMAGING PERMANENT CONSTRUCTION. INSTALL VALVES AND APPURTENANCES IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
14. CONTRACTOR TO PROVIDE SEISMIC ENGINEERED DRAWINGS AND DETAILS FOR ALL MECHANICAL AND PLUMBING ITEMS REQUIRING SEISMIC/WIND LOAD BRACING. THE DRAWINGS SHALL BE STAMPED BY A QUALIFIED SEISMIC ENGINEER. THE DRAWINGS SHALL INCLUDE DESIGN FOR ALL BRACING OF EQUIPMENT INCLUDING TYPE OF FASTENERS AND QUANTITY OF CONNECTIONS AS WELL AS CONNECTIONS OF CURBS TO THE BUILDING STRUCTURE. SUBMIT THE DRAWINGS TO THE MECHANICAL ENGINEER AND TO THE CITY AS A DEFERRED SUBMITTAL. ANY INFORMATION ON THESE DRAWINGS RELATED TO SEISMIC IN THIS DRAWING SET ARE MINIMUM SUGGESTIONS ONLY. SEISMIC DRAWINGS SHALL TAKE PRECEDENCE.
15. COORDINATE PIPING/DUCT INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
16. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
17. ALL INVERT ELEVATIONS SHOWN ON PLANS ARE BASED ON FINISHED FLOOR ELEVATION AT 100.0'. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR EXACT INVERT ELEVATIONS OF ALL LEVELS.
18. ALL FLOOR DRAINS / FLOOR SINKS THROUGH-OUT THE ENTIRE BUILDING ARE TO HAVE TRAP SEAL PRIMER VALVES PROVIDED / INSTALL BY PLUMBING CONTRACTOR. TRAP GUARDS ARE NOT ALLOWED, UNLESS SPECIFICALLY ALLOWED BY THE AHJ.
19. EACH VENT SHALL RISE TO A POINT NO LESS THAN SIX (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT. VENTS LESS THAN 6" ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SHALL BE INSTALLED WITH APPROVED DRAINAGE FITTINGS, MATERIAL, AND GRADE TO THE DRAIN.
20. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°. USE ASSE 1070 MIXING VALVE.
21. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10' MINIMUM FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
22. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
23. PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
24. PROVIDE BACK-FLOW PROTECTION ON WATER SUPPLY LINES FOR DRINK DISPENSERS THAT MEETS THE ASSE 1022 STANDARD.
25. ALL TUBING / PIPING FOR DRINK DISPENSING EQUIPMENT SHALL BE NSF APPROVED.
26. IPC 606.7: LABELING OF WATER DISTRIBUTION:
    - THE IDENTIFICATION SHALL INDICATE PIPE CONTENTS AND THE DIRECTION OF FLOW IN THE PIPE. THE INTERVAL OF THE IDENTIFICATION MARKINGS NO THE PIPE SHALL NOT EXCEED 25'. THERE SHALL BE NOT LESS THAN ONE IDENTIFICATION LABEL ON EACH PIPE IN EACH ROOM, EACH SPACE
27. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT CAUSED BY EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER AND LOWER ONE-THIRD OF THE APPLIANCE'S VERTICAL DIMENSIONS.
28. AFTER CONSTRUCTION, THE INDIVIDUAL WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED AS PER IPC 602.3.4 AND IPC 610. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER
29. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
30. PROVIDE/INSTALL WATER HAMMER ARRESTORS FOR ALL QUICK CLOSING VALVES, FLUSHOMETERS, ICE MACHINES, DISHWASHERS, & WASHING MACHINES PER IPC 604.9. WATER HAMMER ARRESTORS: SIOUX CHIEF 660 SERIES, OR EQUAL. ADHERE TO PDI-WH 201 REQUIREMENTS FOR SIZING / LOCATIONS:
    - TYPE A: 1-11 FIXTURE UNITS
    - TYPE B: 12-32 FIXTURE UNITS
    - TYPE C: 33-60 FIXTURE UNITS
    - TYPE D: 61-113 FIXTURE UNITS
31. DHW LOOP IS TO BE ROUTED SUCH THAT THE MAXIMUM ALLOWABLE PIPE LENGTH FROM THE NEAREST SOURCE TO THE TERMINATION OF THE FIXTURE SUPPLY BE IN ACCORDANCE WITH 2018 IECC C404.5.1, USE MAXIMUM ALLOWABLE PIPE LENGTH METHOD OR MAXIMUM ALLOWABLE PIPE VOLUME METHOD. SEE TABLE ON SHEET M001, OR P001. *(ASHRAE 90.1 DHW LOOP MAY BE 10' MAX DISTANCE FROM FIXTURE)*

BASIS OF DESIGN

CODES (INCLUDING LOCAL AMENDMENTS)

2021	INTERNATIONAL MECHANICAL CODE (IMC)
2021	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2021	INTERNATIONAL BUILDING CODE (IBC)
2021	INTERNATIONAL PLUMBING CODE (IPC)
5B	CLIMATE ZONE

DESIGN TEMPERATURES

SUMMER:	98.3°F DB / 62.6°F WB (OUTDOORS-COOLING)
	75°F DB / 50% RH (INDOORS)
WINTER:	8.0°F DB (OUTDOORS - HEATING)
	70°F DB (INDOORS)

ELEVATION: 4239 FEET ABOVE SEA LEVEL

POTABLE WATER DISINFECTION

2018 IPC 610 EXCERPT

NEW / REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE.

- THE PIPING SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET.
- THE SYSTEM SHALL BE FILLED WITH WATER / CHLORINE SOLUTION CONTAINING NO LESS THAN 200 P.P.M. OF CHLORINE, AND THE SYSTEM SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 3 HOURS.
- FOLLOWING STAND TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN , POTABLE WATER UNTIL CHLORINE IS PURGED FROM THE SYSTEM.
- THIS PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM .
- PROVIDE TEST / FLUSH DOCUMENTATION TO ARCHITECT W/ BALANCE REPORT. P.C. TO COORDINATE TESTING PROCEDURE WITH PROJECT MANAGER.

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

PVE
MECHANICAL & ELECTRICAL CONSULTING ENGINEERS, LLC.
1040 N 2200 WEST | SALT LAKE CITY, UT
T: 801.359.3158 www.pve-ut.com

03/12/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

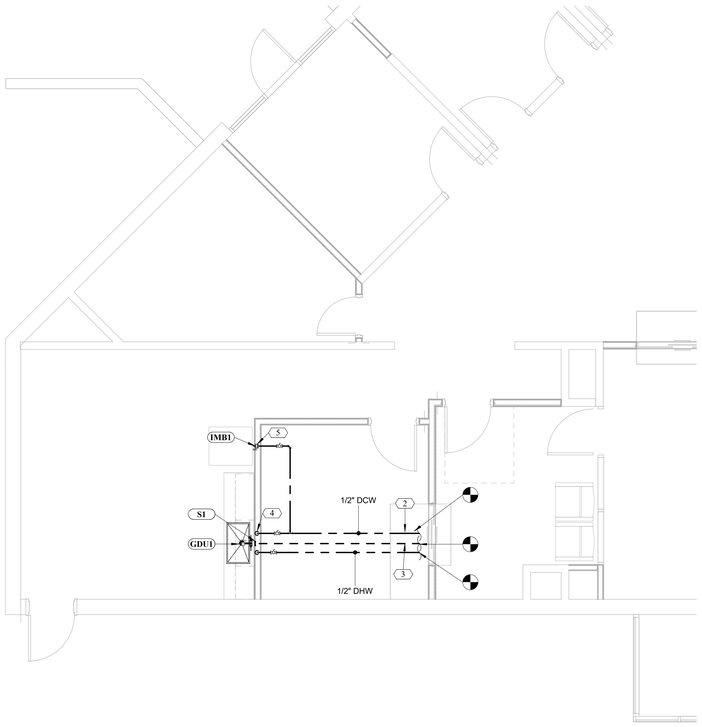
OGDEN CITY

133 W 29th Street, Ogden, UT 84401

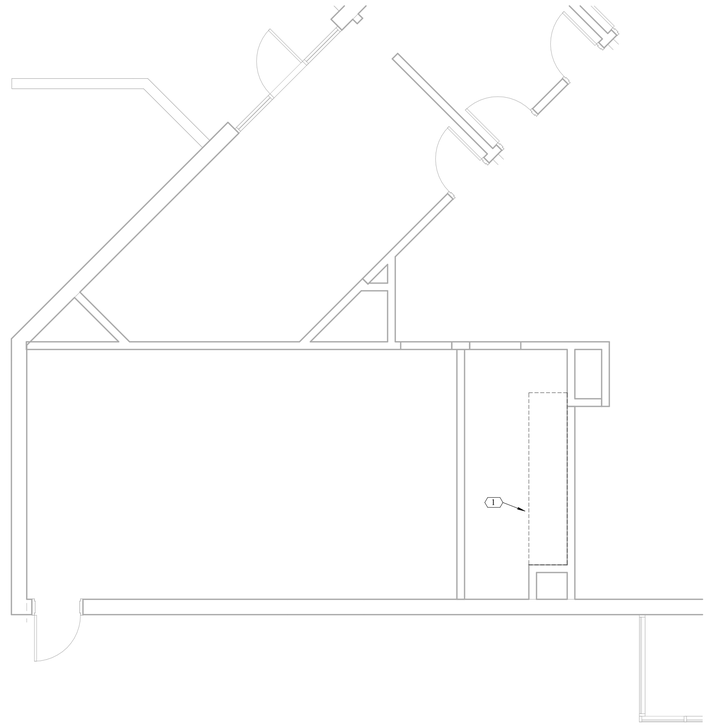
OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

Plumbing Notes & Legends

P000 REV



1 P201 PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 P201 PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

A. ALL WASTE PIPING LESS THAN 3" DIAMETER TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 3" AND GREATER TO BE SLOPED AT 1/8" PER FOOT.

B. ALL FLOOR DRAINS AND FLOOR SINKS ARE TO HAVE TRAP PRIMERS, OR TRAP GUARDS INSTALLED.

C. INSTALL WASTE & VENT RISERS AS CLOSE AS POSSIBLE TO COLUMNS.

D. ALL PLMBING SHOWN IS BASED ON FIELD OBSERVATIONS. P.C. TO VERIFY ALL SITE CONDITIONS BEFROE STARTING WORK.

PLUMBING KEY NOTES

1. REMOVE EXISTING BREAK ROOM SINK AND ALL ASSOCIATED PLUMBING CONNECTIONS. RESUE PLUMBING STUB OUTS FOR NEW LOCATION. SEE 1/P201 FOR MORE INFORMATION.

2. CONNECT DCW/DHW TO EXISITNG LINE.

3. CONNECT SANITARY SEWER TO EXISTING LINE.

4. ROUTE 1/2" DCW/DHW TO BREAK ROOM SINK. PROVIDE ISOLATION VALVE AND ALL FINAL CONNECTIONS.

5. ROUTE 1/2" DCW TO ICE MAKER BOX. PROVIDE IOSLATION VALVE AND ALL FINAL CONNECTIONS.

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

PVE
MECHANICAL & ELECTRICAL
CONSULTING ENGINEERS, LLC.
1040 N 2200 WEST | SALT LAKE CITY, UT
T: 801.359.3158 www.pve-ut.com

G. Joshua Elliott REGISTERED 8350201 STATE of UTAH
03/12/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07/21/2025

Plumbing Plan

P201 REV

LIGHTING SYMBOLS

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

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

TELEPHONE / DATA SYMBOLS

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

ACCESS CONTROL SYMBOLS

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

VIDEO SURVEILLANCE SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	BULLET STYLE VIDEO SURVEILLANCE CAMERA	SEE PLANS	SUBSCRIPT DENOTES DEGREES OF MONITORED AREA
	BULLET STYLE VIDEO SURVEILLANCE CAMERA	WALL	
	DOME STYLE VIDEO SURVEILLANCE CAMERA	SEE PLANS	
	DOME STYLE VIDEO SURVEILLANCE CAMERA	WALL	

WIRING DEVICE SYMBOLS

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

LIGHTING CONTROLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
$	SINGLE-POLE TOGGLE SWITCH	+48"	
$a	SINGLE-POLE TOGGLE SWITCH	+48"	"a" LOWER CASE LETTER SPECIFIES ZONE
$3	THREE-WAY TOGGLE SWITCH	+48"	
$4	FOUR-WAY TOGGLE SWITCH	+48"	
$K	KEY-OPERATED SINGLE-POLE TOGGLE SWITCH	+48"	
$P	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	+48"	
$DIM	DIMMER SWITCH	+48"	RATE DIMMER SWITCH FOR MAXIMUM POSSIBLE WATTAGE
$TIM	TIMER SWITCH	+48"	
$OS	OCCUPANCY SENSOR WALL SWITCH	+48"	
$D OS	OCCUPANCY SENSOR WALL SWITCH WITH DIMMING	+48"	
$XYZ LV#	LOW VOLTAGE SWITCH	+48"	REFER TO SWITCH DETAILS FOR MORE INFORMATION "#" SPECIFIES TYPE
$3PM	3-POSITION MOMENTARY CONTACT SWITCH	+48"	REFER TO DETAIL UP-ON; CENTER-NEUTRAL; DOWN-OFF
$3PN	3-POSITION MAINTAINED CONTACT SWITCH	+48"	UP-ON; CENTER-OFF; DOWN-ON
a	OCCUPANCY SENSOR	CEILING	"a" LOWER CASE SPECIFIES ZONE
a	WALL MOUNTED OCCUPANCY SENSOR	+48"	"a" LOWER CASE SPECIFIES ZONE
	DAYLIGHT SENSOR	CEILING	"a" LOWER CASE LETTER SPECIFIES ZONE
CP# LV#K	LOW-VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL	+48"	CP# REPRESENTS LIGHTING CONTROL PANEL IDENTIFIER LV# SPECIFIES TYPE K INDICATES KEYED SWITCH REFER TO SWITCH DETAILS FOR MORE INFORMATION
CP#	OCCUPANCY SENSOR CONNECTED TO LIGHTING CONTROL PANEL	CEILING	CP# REPRESENTS LIGHTING CONTROL PANEL IDENTIFIER
CP#	DAYLIGHT SENSOR CONNECTED TO LIGHTING CONTROL PANEL	CEILING	CP# REPRESENTS LIGHTING CONTROL PANEL IDENTIFIER
LC.OO	LIGHTING CONTROL SEQUENCE OF OPERATIONS IDENTIFIER		REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR ADDITIONAL INFORMATION
PDLZ	PRIMARY DAYLIGHT ZONE		
SDLZ	SECONDARY DAYLIGHT ZONE		

GENERAL SYMBOLS

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

EQUIPMENT AND CONTROL SYMBOLS

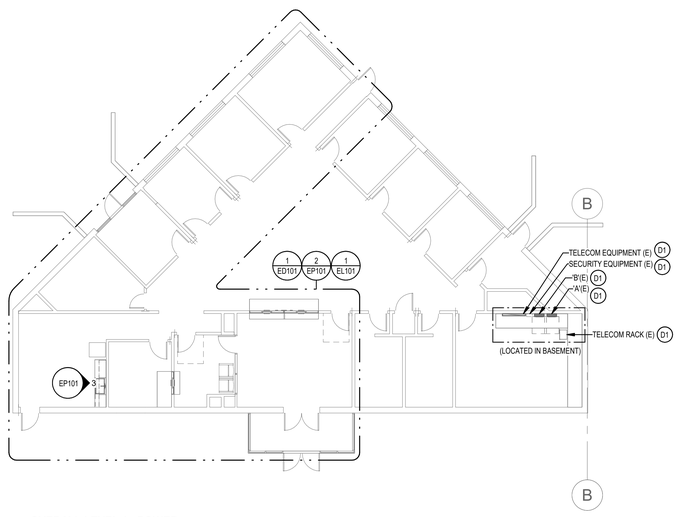
SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	LOW-VOLTAGE SYSTEM CONTROL PANEL	TOP AT +72"	SEE FLOOR PLANS AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6"D
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6"D

INTRUSION DETECTION SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
MD	MOTION DETECTOR	CEILING	SUBSCRIPT DENOTES DEGREES OF MONITORED AREA
D	DURESS PUSH-BUTTON	BELOW DESK	
OHS	OVERHEAD MAGNETIC CONTACT DOOR SWITCH	DOOR	
D	MAGNETIC CONTACT DOOR SWITCH	DOOR	
G	GLASS BREAK DETECTOR	CEILING	
S	SIREN	+90"	
REX	REQUEST FOR EXIT	DOOR	
PANEL NAME	INTRUSION DETECTION CONTROL PANEL	TOP AT +72"	

BRANCH CIRCUITING SYMBOLS

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



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

ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES

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

ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

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

SHEET INDEX

VOLTAGE DROP UPSIZING CHART FOR 20AMP, SINGLE PHASE BRANCH CIRCUITS
120 VOLTS

LENGTH (FT)	CONDUCTOR SIZE	CONDUIT SIZE
0-80	(3)#12	3/4"
81-125	(3)#10	3/4"
126-200	(3)#8	3/4"
201-320	(3)#6	1"
>320	(3)#4	1-1/2"

GENERAL PROJECT NOTES:

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

KEYED NOTES (#)

D1 PROTECT AND MAINTAIN.

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
www.envisioneng.com

ENV:2024-283

PROFESSIONAL ENGINEER 9808039–2202 ALEKSANDAR RANKOVIC STATE OF UTAH
07/21/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07-21-2025

GENERAL NOTES AND SYMBOLS LISTS

EG001 REV

GSBS ARCHITECTS

375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101

P 801.521.8600
F 801.521.791

www.gsbsarchitects.com

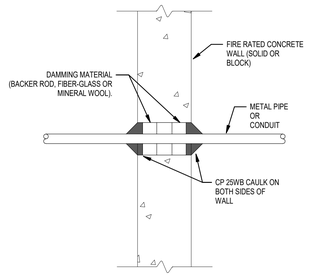
REVISIONS:

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130

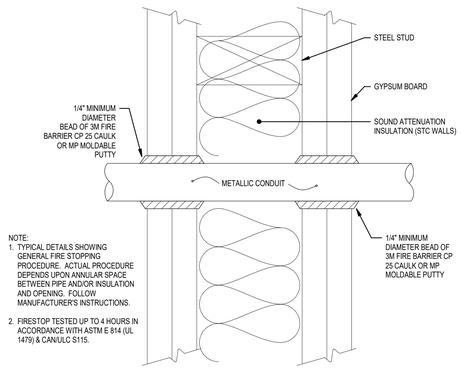
www.envisioneng.com

ENV:2024-283

07/21/2025

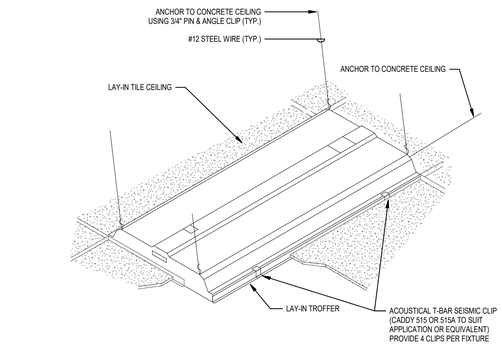


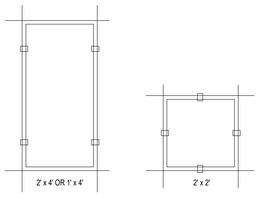
5 TYPICAL CONCRETE WALL PENETRATION DETAIL
SCALE: NTS



NOTE:
1. TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.
2. FIRESTOP TESTED UP TO 4 HOURS IN ACCORDANCE WITH ASTM E 814 (UL 1479) & CAN/ULC S115.

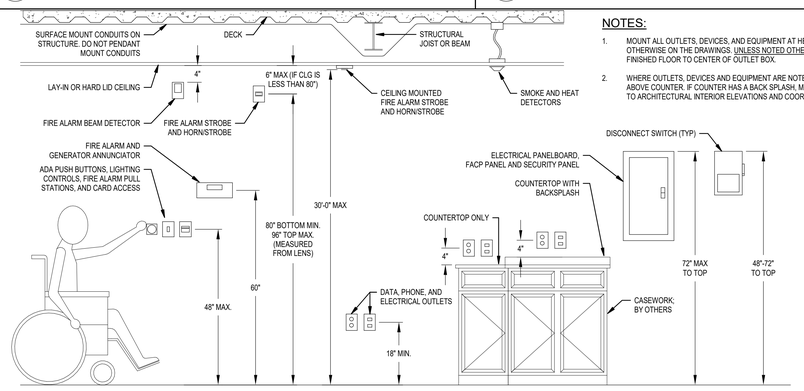
4 TYPICAL GYPBOARD WALL PENETRATION DETAIL
SCALE: NTS





SUPPORT CLIP ARRANGEMENT DIAGRAMS

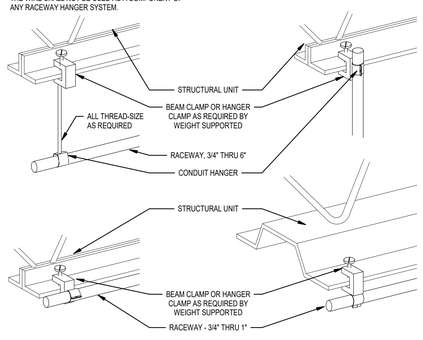
8 TYPICAL LAY-IN GRID LIGHT FIXTURE MOUNTING DETAIL
SCALE: NTS



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

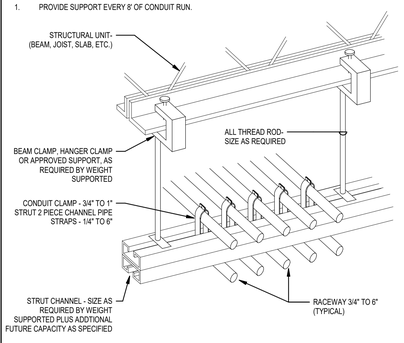
3 TYPICAL ADA AND EQUIPMENT MOUNTING HEIGHT DETAIL
SCALE: NTS

NOTES:
1. THE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.



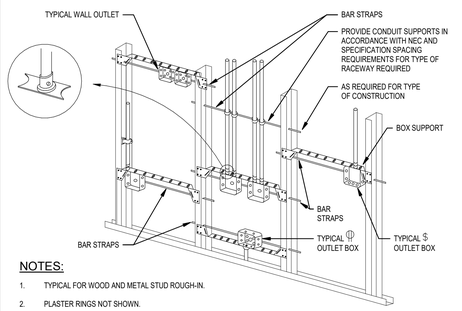
7 TYPICAL SINGLE RACEWAY SUPPORT DETAILS
SCALE: NTS

NOTES:
1. PROVIDE SUPPORT EVERY 8' OF CONDUIT RUN.



6 TYPICAL MULTIPLE RACEWAY SUPPORT DETAIL
SCALE: NTS

2 TYPICAL OUTLET CONVENTION
SCALE: NTS



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

1 TYPICAL ROUGH-IN REQUIREMENTS
SCALE: NTS

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07-21-2025

ELECTRICAL DETAILS

EG002 REV

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	SOURCE	ELECTRICAL VOLTAGE	ELECTRICAL LOAD	APPROVED MANUFACTURERS	CATALOG INFORMATION CATALOG NUMBER / SERIES	COMMENTS / NOTES
G1	DESCRIPTION: LED 2x4 DIMENSION: 3.25"H x 23.75"W x 47.75"L MOUNTING: RECESSED IN LAY-IN CEILING MATERIAL: ROLLED STEEL, FINISH: WHITE LENS MATERIAL: ACRYLIC LENS REFLECTOR DISTRIBUTION TYPE: TBD	LAMP TYPE: LED LUMENS: 4000 DIMMING: 0-10V COLOR TEMP: 4000K	120 V	30	METALUX (OR APPROVED EQUAL)	24CZ2-40-UNV-L840-CD1-U	-
PL3	DESCRIPTION: LED LINEAR PENDANT DIMENSION: 8.5"x48" MOUNTING: PENDANT MATERIAL: STEEL, FINISH: WHITE LENS MATERIAL: FROSTED ACRYLIC PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED ON FLOOR PLANS	LAMP TYPE: LED LUMENS: 3000 DIMMING: 0-10V COLOR TEMP: 4000K	120 V	26	CORELITE (OR APPROVED EQUAL)	J2-WL-30L840-1D-UNV-STD-DC-W-AC120-UM	PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED ON FLOOR PLANS
PL4	DIMENSION: 8.5"x48" MOUNTING: PENDANT MATERIAL: STEEL, FINISH: WHITE LENS MATERIAL: FROSTED ACRYLIC PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED ON FLOOR PLANS	LAMP TYPE: LED LUMENS: 4000 DIMMING: 0-10V COLOR TEMP: 4000K	120 V	37	CORELITE (OR APPROVED EQUAL)	J2-WL-40L840-1D-UNV-STD-DC-W-AC120-UM	PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED ON FLOOR PLANS
X1	DESCRIPTION: LED EXIT SIGN DIMENSION: 13" x 2-1/8" x 4-1/2" MOUNTING: WALL MATERIAL: POLYCARBONATE, COLOR: TBD LENS MATERIAL: N/A LENS REFLECTOR DISTRIBUTION TYPE: N/A	LAMP TYPE: LED LUMENS: N/A DIMMING: N/A COLOR TEMP: N/A	120 V	2	SURE LITES (OR APPROVED EQUAL)	APX7RG	-

LIGHT FIXTURE GENERAL NOTES

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS AND / OR ARCHITECT.
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE REQUIREMENTS.
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. ALL LIGHT FIXTURES ARE TO BE 3500K FOR INTERIOR APPLICATIONS AND 4000K FOR EXTERIOR APPLICATIONS, UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
6. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
7. ALL LED SOURCES MUST MEET L80 AT 50,000 HRS MINIMUM UNLESS OTHERWISE NOTED.
8. CONFIRM ALL MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO RELEASE.
9. ALL LIGHT FIXTURES ARE TO HAVE AN EFFICACY OF 80 LUMENS PER WATT MINIMUM.

BIDDING REQUIREMENTS

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

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
3. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVALS WILL NOT BE GIVEN ON ANY ITEM.
4. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
5. PRIOR APPROVALS SHALL CONSIST OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.
6. LIGHTING PACKAGES WILL BE REVIEWED FOR GENERAL PROJECT COMPLIANCE ONLY. AN IN-DEPTH REVIEW OF ANY ALTERNATE FIXTURES WILL BE DONE DURING THE SUBMITTAL REVIEW PROCESS. ANY FIXTURES THAT ARE NOT TRULY EQUAL, AND / OR DO NOT COMPLY WITH ALL OF THE REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS, WILL NOT BE APPROVED. IF EQUIMENT IS DISAPPROVED FOR BIDDING, CONTRACTOR SHALL SUPPLY SPECIFIED EQUIPMENT AT NO EXTRA COST TO THE OWNER.

PANELBOARD SCHEDULE

PANEL NAME: B

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: STANDARD
MANUFACTURER: GE (EXISTING)

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 10,000 A

LOCATION:
MAIN TYPE: MCB
BUS RATING: 225 A
MCB RATING: 150 A
BUS MATERIAL: COPPER

FEED FROM:
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD Type	CKT #	A		CKT #	B		CKT #	C		CKT #	LOAD Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
8	REC: CEMETARY OFFICE	20 A	1	CO	1	900 VA	--							2	--	1	--	EXISTING SPACE	
8	REC: BREAK ROOM OUTLETS	20 A	1	CO	3			360 VA	--					4	--	1	--	EXISTING SPACE	
8	BREAK ROOM MICROWAVE	20 A	1	K	5					1500 VA	--			6	--	1	--	EXISTING SPACE	
1,8	BREAK ROOM FRIDGE	20 A	1	K	7	1200 VA	--							8	--	1	--	EXISTING SPACE	
8	BREAK ROOM DISPOSAL	20 A	1	M; E	9			1200 VA	--					10	--	1	--	EXISTING SPACE	
8	REC: NEW OFFICE 105, 106	20 A	1	CO	11					540 VA	--			12	--	1	--	EXISTING SPACE	
	EXISTING SPACE	--	1	--	13	--	--							14	--	1	--	EXISTING SPACE	
	EXISTING SPACE	--	1	--	15			--	--					16	--	1	--	EXISTING SPACE	
	EXISTING SPACE	--	1	--	17							--	0 VA	18	--	2	100 A	EXISTING LOAD	9
9	EXISTING LOAD	20 A	1	--	19	0 VA	0 VA							20	--	--	--	--	--
9	EXISTING LOAD	20 A	1	--	21			0 VA	0 VA					22	--	1	20 A	EXISTING LOAD	9
9	EXISTING LOAD	20 A	1	--	23					0 VA	0 VA			24	--	1	20 A	EXISTING LOAD	9
9	EXISTING LOAD	20 A	1	--	25	0 VA	0 VA							26	--	1	20 A	EXISTING LOAD	9
9	EXISTING LOAD	20 A	1	--	27			0 VA	0 VA					28	--	1	20 A	EXISTING LOAD	9
	EXISTING SPACE	--	1	--	29					--	0 VA			30	--	1	20 A	EXISTING LOAD	9
	TOTAL CONNECTED LOAD PER PHASE (VA)					2100 VA			1560 VA			2040 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					18 A			13 A			18 A							

PANEL TOTALS:

TOTAL CONNECTED LOAD:	5700 VA	**TOTAL CONNECTED CURRENT:**	16 A
TOTAL ESTIMATED DEMAND:	6000 VA	**TOTAL ESTIMATED DEMAND CURRENT:**	17 A

PANELBOARD SCHEDULE KEYED NOTE:

1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYPE CIRCUIT BREAKER.
4. PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LABELED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD.

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.7791
www.gsbsarchitects.com

REVISIONS:

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
www.envisioneng.com

ENV:2024-283

PROFESSIONAL ENGINEER 9808039–2202 ALEKSANDAR RANKOVIC STATE OF UTAH

07/21/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07-21-2025

ELECTRICAL SCHEDULES

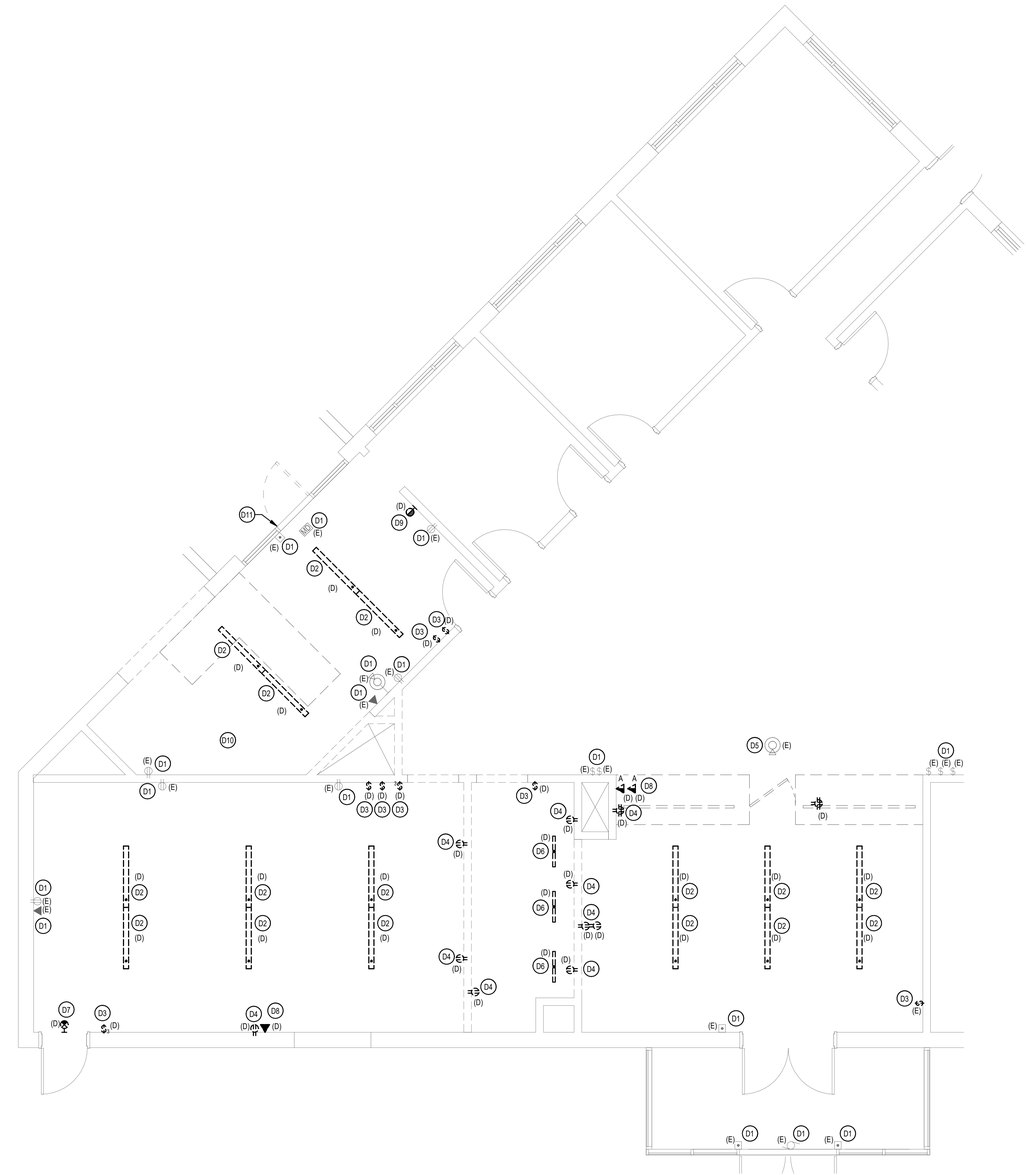
EG003 REV

GENERAL DEMOLITION NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
   - A. DISCONNECT AND REMOVE ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
   - B. RELOCATE, REWIRE, AND/OR RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
   - C. LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
   - D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE, TAPE CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO, OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
   - E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
   - F. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.
   - G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
   - H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
   - I. PROVIDE BLANK FACE COVER PLATES FOR ALL DEMOLISHED DEVICES, BOXES, LIGHTS, ETC. MATCH COVER PLATE FINISH IN THE AREA.
   - J. FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.

KEYED NOTES (#)

- D1 PROTECT AND MAINTAIN.
- D2 DEMOLISH EXISTING LIGHT FIXTURE. PROTECT AND MAINTAIN CIRCUIT FOR RE-USE.
- D3 DEMOLISH EXISTING LIGHT SWITCH AND ASSOCIATED WIRING. PROTECT AND MAINTAIN EXISTING SWITCH BOX AND CONDUIT FOR REUSE.
- D4 DEMOLISH EXISTING RECEPTACLE. PROTECT AND MAINTAIN CIRCUIT FOR RE-USE.
- D5 EXISTING VIDEO SURVEILLANCE CAMERA TO BE RAISED AS DIRECTED BY THE OWNER. MODIFY EXISTING CONDUIT AND J-BOX AS REQUIRED.
- D6 DEMOLISH EXISTING UNDER-CABINET LIGHTS. PROTECT AND MAINTAIN CIRCUIT FOR RE-USE.
- D7 DEMOLISH EXIT SIGN. PROTECT AND MAINTAIN CIRCUIT FOR RE-USE.
- D8 DEMOLISH DATA/PHONE OUTLET(S) AND ASSOCIATED CABLING.
- D9 IF THIS SENSOR IS PART OF THE LIGHTING CONTROL SYSTEM - DEMOLISH SENSOR AND ASSOCIATED WIRING. IF THIS SENSOR IS PART OF THE SECURITY SYSTEM - PROTECT AND MAINTAIN.
- D10 EXPOSED CABLES IN THIS ROOM TO BE RELOCATED BY OWNER AS NEEDED.
- D11 DISCONNECT AND CONNECT BACK THE EXISTING DOOR CONTROLS AS REQUIRED.



1 ED101 LEVEL 1 - DEMOLITION PLAN
1/4" = 1'-0"

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
www.envisioneng.com

ENV:2024-283

PROFESSIONAL ENGINEER
9808039-2202
ALEKSANDAR RANKOVIC
STATE OF UTAH
07/21/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:	
GSBS PROJECT NO.:	2023.040.00
ISSUED DATE:	07-21-2025

LEVEL 1 - DEMOLITION PLAN

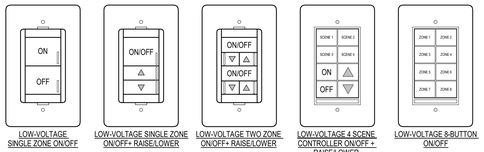
ED101 REV

LIGHTING WIRING DIAGRAMS

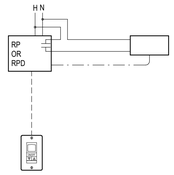
SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	LINE VOLTAGE LIGHT SWITCH	+48"	
	LINE VOLTAGE LIGHT SWITCH	+48"	
	LOW VOLTAGE LIGHT SWITCH (REFER TO LOW VOLTAGE LIGHTING CONTROL WALL SWITCH DETAILS AND FLOOR PLANS)	+48"	
	WALL MOUNT GRAPHIC TOUCH PAD CONTROLLER	+48"	
	OCCUPANCY SENSOR	CEILING	
	DAYLIGHT SENSOR	CEILING	
a	NORMAL POWER LIGHTING LOAD	CEILING	"a" LOWER CASE LETTER SPECIFIES ZONE
a	EMERGENCY POWER LIGHTING LOAD	CEILING	"a" LOWER CASE LETTER SPECIFIES ZONE
H N XX	RP: RELAY PACK RPD: DIMMING RELAY PACK RC: RECEPTACLE LOAD CONTROLLER	ABOVE ACCESSIBLE CEILING	RELAYS MAY BE COMBINED IN ROOM CONTROLLER OR POWER PACKS.
EM H N N H EXX	ER: EMERGENCY RELAY PACK ERD: EMERGENCY DIMMING RELAY PACK	ABOVE ACCESSIBLE CEILING	RELAYS MAY BE COMBINED IN ROOM CONTROLLER OR POWER PACKS. MUST BE UL 924 RATED FOR EMERGENCY LOADS.
	3/4"C WITH LIGHTING BRACH CIRCUIT WIRING		
	3/4"C WITH 0-10V DIMMING WIRING		
	3/4"C WITH CAT 5 CABLING		

LIGHTING CONTROL NOTES

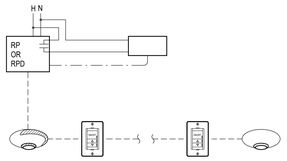
1. PROGRAMMING SHALL BE COMPLETED PRIOR TO SUBSTANTIAL COMPLETION.
2. MODIFY PROGRAMMING AND PRESET SCENES AS REQUESTED BY OWNER.
3. PROVIDE FINE TUNING PROGRAMMING MODIFICATIONS AS REQUESTED BY OWNER WITHIN 6 MONTHS AFTER BUILDING OCCUPANCY.
4. IN ADDITION TO PRESET SCENES PROVIDE INDIVIDUAL CONTROL FOR EACH ZONE.
5. ALL WIRING DIAGRAMS ARE GENERAL IN NATURE. SPECIFIC CONFIGURATION AND QUANTITIES DUE TO MANUFACTURER AVAILABILITY WILL VARY. PROVIDE ALL REQUIRED PARTS OF THE SYSTEM TO PERFORM AS INTENDED.
6. NOT ALL DEVICES SHOWN ON WIRING DIAGRAMS MIGHT BE REQUIRED. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND DEVICE TYPES.
7. PROVIDE SEPARATE RELAYS FOR DAYLIGHT ZONES SHOWN ON DRAWINGS.
8. ROOM CONTROLLERS OR POWER PACKS WITH MULTIPLE RELAYS INCLUDED MAY BE PROVIDED IN LIEU OF SEPARATE RELAYS SHOWN.
9. LIGHTING CONTROL DIAGRAMS AS SHOWN ARE FOR BASIC CONCEPT AND LAYOUT. LIGHTING CONTROLS SYSTEM SUPPLIER TO PROVIDE INSTALLATION DRAWINGS THAT REFLECT THE ACTUAL INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, AND ALL REQUIRED DEVICES.



2 LTG.801.STD LIGHTING CONTROL WALL SWITCH DETAILS
SCALE: NTS



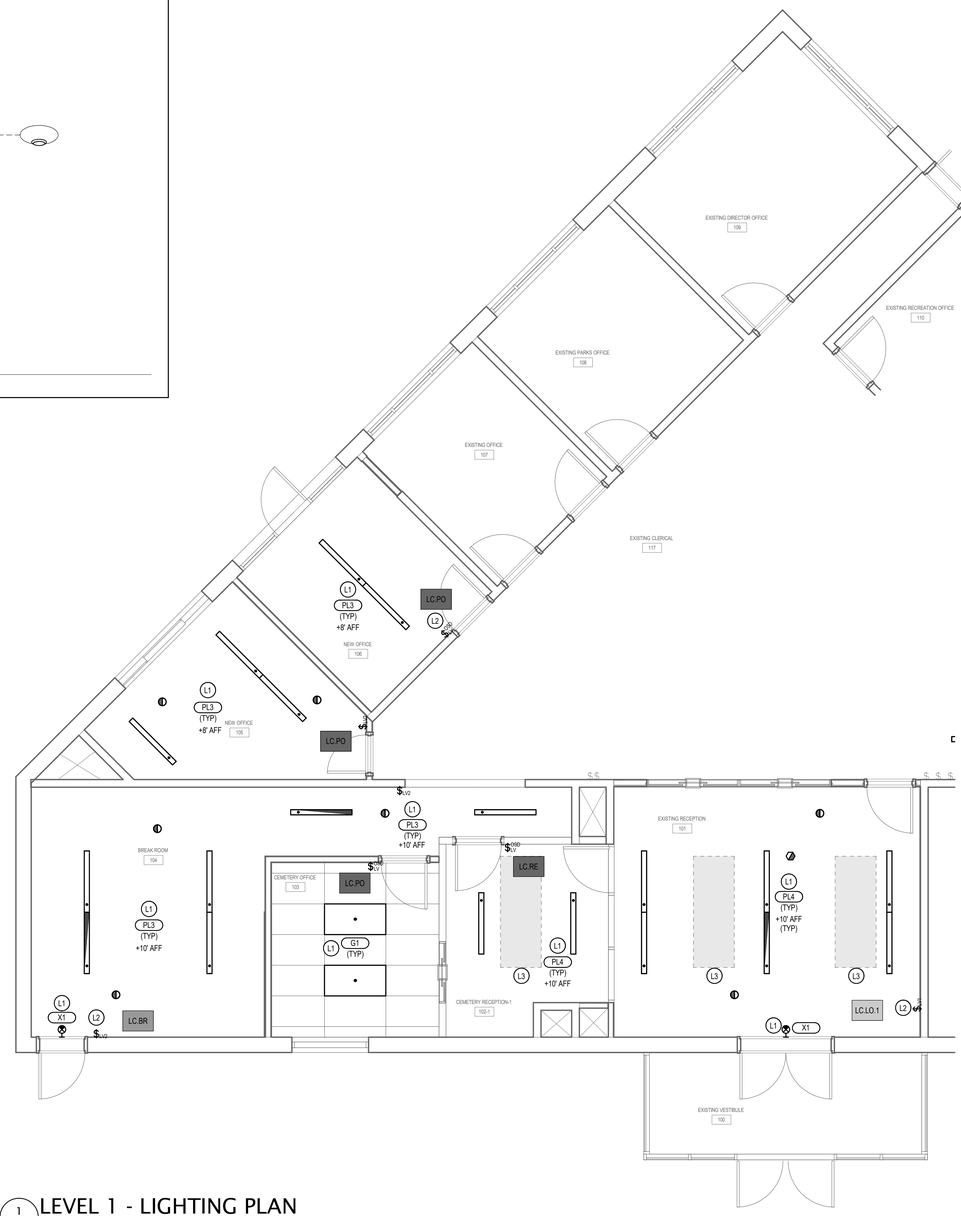
3 LTG.502.STD - LOW VOLTAGE WIRING DIAGRAM
SCALE: NTS



4 LTG.503.STD - LOW VOLTAGE WIRING DIAGRAM
SCALE: NTS

STANDARD SEQUENCE OF OPERATIONS

ROOM DESIGNATIONS		OCCUPANCY SENSOR					TIME SWITCH				CONTROLS					
ROOM TYPE I.D.	ROOM TYPE	AUTO ON OCCUPANCY	MANUAL ON (VACANCY)	AUTO OFF (TIMEOUT)	AUTO PARTIAL OFF	AUTO OFF AFTER HOURS	TIME ON	TIME OFF	PHOTOCELL ON	PHOTOCELL OFF	MANUAL OVERRIDE SWITCH	RECEPTACLE CONTROL	NETWORKED LOW-VOLTAGE CONTROLS	STANDALONE LOW-VOLTAGE CONTROLS	LINE-VOLTAGE CONTROLS	SEQUENCE OF OPERATIONS
LC.BR	BREAKROOM		X	20 MIN							X			X		MANUAL ON, AUTO OFF WITH VACANCY SENSOR. LOCAL ON/OFF/DIMMING CONTROL. 2 ZONES OF CONTINUOUS DIMMING DAYLIGHTING CONTROL WHERE > 150W OF LIGHTING WITHIN PRIMARY DAYLIGHT ZONE OR > 300W OF LIGHTING COMBINED IN BOTH DAYLIGHT ZONES. SWITCH AT ENTRY IS TO BE PROGRAMMED TO TURN ON ALL GENERAL LIGHTS TO 100%. ZONE CONTROLLER AT COUNTER IS TO FUNCTION AS FOLLOWS; ZONE 1 - GENERAL LIGHTING ZONE 2 - COUNTER LIGHTING
LC.LO.1	LOBBY (GENERAL)	100%		20 MIN										X		AUTO ON/OFF WITH OCCUPANCY SENSOR. REMOTE ON/OFF/DIMMING CONTROL. 2 ZONES OF CONTINUOUS DIMMING DAYLIGHTING CONTROL WHERE > 150W OF LIGHTING WITHIN PRIMARY DAYLIGHT ZONE OR > 300W OF LIGHTING COMBINED IN BOTH DAYLIGHT ZONES.
LC.PO	PRIVATE OFFICE		X	20 MIN							X			X		MANUAL ON, AUTO OFF WITH VACANCY SENSOR. LOCAL ON/OFF/DIMMING CONTROL. 2 ZONES OF CONTINUOUS DIMMING DAYLIGHTING CONTROL WHERE > 150W OF LIGHTING WITHIN PRIMARY DAYLIGHT ZONE OR > 300W OF LIGHTING COMBINED IN BOTH DAYLIGHT ZONES.
LC.RE	RECEPTION STATION		X	20 MIN							X			X		MANUAL ON, AUTO OFF WITH VACANCY SENSOR. LOCAL ON/OFF/DIMMING CONTROL. 2 ZONES OF CONTINUOUS DIMMING DAYLIGHTING CONTROL WHERE > 150W OF LIGHTING WITHIN PRIMARY DAYLIGHT ZONE OR > 300W OF LIGHTING COMBINED IN BOTH DAYLIGHT ZONES.



1 LEVEL 1 - LIGHTING PLAN
EL101 1/4" = 1'-0"

LIGHTING GENERAL NOTES:

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

KEYED NOTES (#)

L1 CIRCUIT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT IN THIS ROOM.

L2 INSTALL NEW CONTROLS IN EXISTING SWITCH BOX.

L3 EXISTING SKYLIGHT.

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
www.envisioneng.com

ENV:2024-283

PROFESSIONAL ENGINEER 9808039–2202 ALEKSANDAR RANKOVIC STATE OF UTAH
07/21/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07-21-2025

LEVEL 1 - LIGHTING PLAN

EL101 REV

GSBS ARCHITECTS

375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101

P 801.521.8600
F 801.521.791

www.gsbsarchitects.com

REVISIONS:

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130

www.envisioneng.com

ENV:2024-283

PROFESSIONAL ENGINEER
9808039-2202
ALEKSANDAR RANKOVIC
STATE OF UTAH

07/21/2025

1 EL201 LIGHTING PHOTOMETRY PLAN
1/4" = 1'-0"

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:	
GSBS PROJECT NO.:	2023.040.00
ISSUED DATE:	07-21-2025

LIGHTING PHOTOMETRY PLAN

EL201 REV

POWER GENERAL NOTES:

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

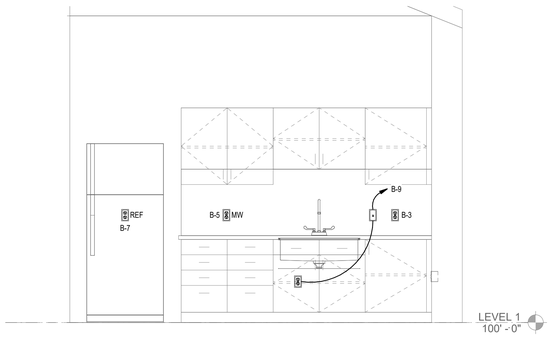
KEYED NOTES (#)

P1 CIRCUIT TO EXITING GENERAL PURPOSE OUTLETS CIRCUIT IN THIS AREA. EXTEND CONDUIT AND WIRING AS REQUIRED.

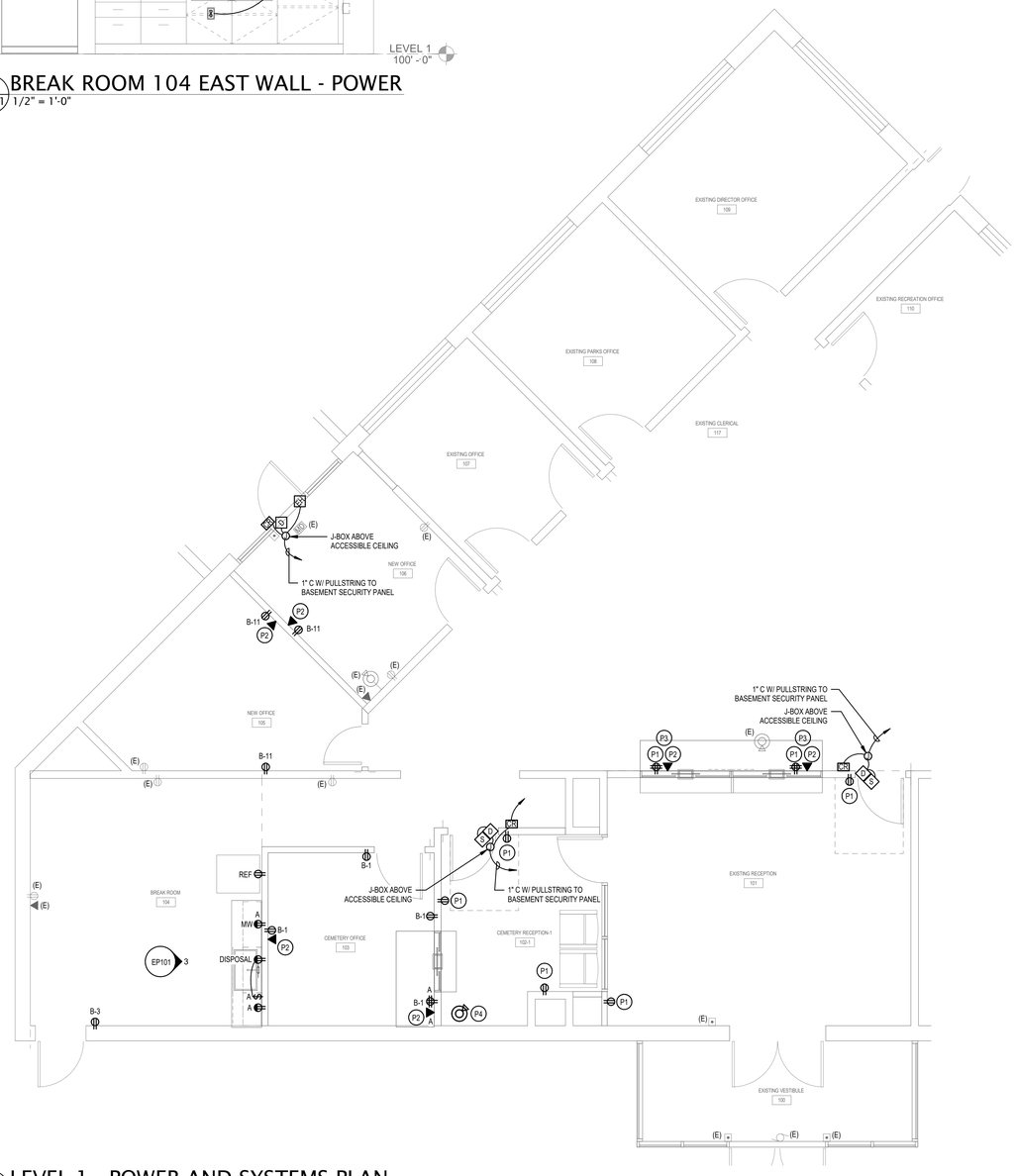
P2 PROVIDE 4-11/16" X 4-11/16" X 2-1/8" BOX WITH SINGLE GANG MUD RING FOR NEW DATA/PHONE OUTLET. EXTEND 1" CONDUIT WITH PULLSTRING FROM BOX TO BASEMENT TELECOM EQUIPMENT. COORDINATE ALL WORK WITH THE OWNER PRIOR TO ROUGH-IN.

P3 COORDINATE WORK WITH MILLWORK INSTALLER.

P4 PROVIDE J-BOX FOR SECURITY CAMERA. EXTEND 1" CONDUIT WITH PULLSTRING FROM BOX TO BASEMENT EQUIPMENT RACK. COORDINATE ALL WORK WITH THE OWNER PRIOR TO ROUGH-IN.



3 EP101 BREAK ROOM 104 EAST WALL - POWER
1/2" = 1'-0"



2 EP101 LEVEL 1 - POWER AND SYSTEMS PLAN
1/4" = 1'-0"

GSBS ARCHITECTS
375 WEST 200 SOUTH
SALT LAKE CITY, UT 84101
P 801.521.8600
F 801.521.791
www.gsbsarchitects.com

REVISIONS:

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
www.envisioneng.com
ENV:2024-283

PROFESSIONAL ENGINEER
9808039-2202
ALEKSANDAR RANKOVIC
STATE OF UTAH
07/21/2025

CONSTRUCTION DOCUMENTS

OGDEN COMMUNITY SERVICES BLDG REMODEL

1875 Monroe Blvd, Ogden UT 84401

OGDEN CITY

133 W 29th Street, Ogden, UT 84401

OWNER PROJECT NO.:
GSBS PROJECT NO.: 2023.040.00
ISSUED DATE: 07-21-2025

LEVEL 1 - POWER AND SYSTEMS PLAN

EP101 REV