

# JSSD ADMINISTRATION BUILDING



5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032

REVIEWED FOR CODE  
COMPLIANCE BY  
**WASATCH COUNTY**  
APPROVED PLANS MUST  
REMAIN ON THE JOB



DEFERRED SUBMITTAL		
MARK	DESCRIPTION	
1	FIRE ALARM	
2	TIMBER TRUSSES	
3	ICC REPORTS FOR PRECAST CONCRETE CAPS	
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL DEFERRED ITEMS SUBMIT TO ARCHITECT FOR REVIEW.		
SPECIAL INSPECTIONS		
MARK	DATE	DESCRIPTION
1	9/27/18	ADDENDA 2
2	10/26/18	CITY COMMENTS
3	11/27/18	CITY COMMENTS 2
CONTRACTOR SHALL ORDER AND SCHEDULE ALL SPECIAL INSPECTION REQUIRED.		
NOTE: THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT ARE COMPOSED OF SETS OF DRAWINGS AND SPECIFICATIONS. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR, OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS. ALL BIDDERS WHO ELECT TO SUBMIT BIDS FOR PORTIONS OF THIS PROJECT SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT, ADDENDA OR CLARIFICATIONS THAT MAY BE ISSUED. PROJECT SCOPE MAY BE DEFINED IN SPECIFICATIONS AND/ OR DRAWINGS.		

## DESIGN TEAM

OWNER	ARCHITECT	STRUCTURAL	MECHANICAL	ELECTRICAL
JORDANELLE SPECIAL SERVICE DISTRICT 5780 NORTH, OLD HIGHWAY 40 HEBER CITY, UT 84032 PHONE: 435-654-9233 mcovey@jssd.us MAX COVEY	ARCHITECTURAL DESIGN WEST 795 N 400 W SALT LAKE CITY, UT 84103 PHONE: 801-539-8221 scotto@designwestarchitects.com SCOTT OLCOTT - AcR derek@designwestarchitects.com DEREK CHRISTENSEN - PM	BHB CONSULTING ENGINEERS 2766 S. MAIN ST. SALT LAKE CITY, UT 84115 PHONE: 801-355-5656 dallin.pedersen@bhbenigneers.com DALLIN PEDERSEN, S.E.	BRENKMAN & COMPANY 1770 RESEARCH PARKWAY SUITE 112 LOGAN, UT 84341 PHONE: 435.554.7771 henk.brenkman@brenkmanandcompany.com HENK BRENKMAN	ROCKY MOUNTAIN CONSULTING ENGINEERS, INC. 2117 SOUTH 3600 WEST SALT LAKE CITY, UT 84119 PHONE: 801-566-0503 david@rmceut.com David W. Stewart, P.E.

design west | architects  
255 SOUTH 300 WEST  
795 NORTH 400 WEST  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

JSSD ADMINISTRATION BUILDING  
5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032  
JORDANELLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
1	9/27/18	ADDENDA 2
2	10/26/18	CITY COMMENTS
3	11/27/18	CITY COMMENTS 2

PROJECT #: 818120  
DRAWN BY: DC  
CHECKED BY: SO  
ISSUED: 07-17-18

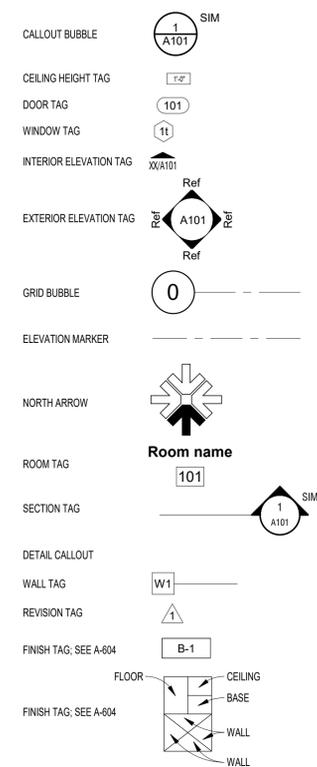


COVER SHEET

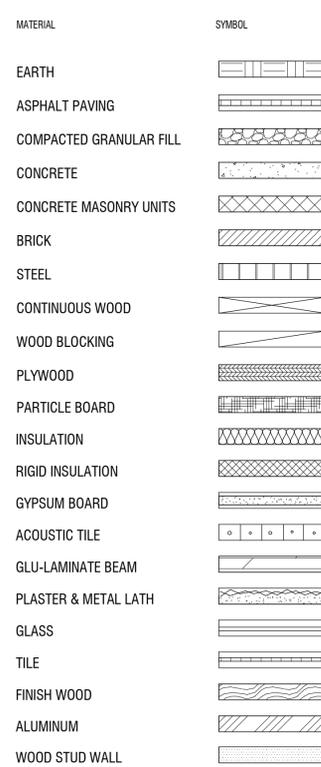
G-001

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### SYMBOLS LEGEND



### MATERIALS LEGEND



### CODE

**JURISDICTION**  
WASATCH COUNTY

**CODE**  
2015 INTERNATIONAL BUILDING CODE  
2015 INTERNATIONAL MECHANICAL CODE  
2015 INTERNATIONAL PLUMBING CODE  
2017 NATIONAL ELECTRICAL CODE

**OCCUPANCY**  
OCCUPANCY: B

**MIXED OCCUPANCY (508) (508.2)**  
YES  NO

**REQUIRED SEPARATION OF OCCUPANCIES (508.4)**  
N/A

**TYPE OF CONSTRUCTION**  
IA IB IIA IIB IIIA IIIB IVA IVB VA  VB

**AUTOMATIC SPRINKLER SYSTEM**  
YES  NO

**BUILDING HEIGHT (504.3)**  
(B) ALLOWABLE BUILDING HEIGHT 40'  
(B) PROPOSED BUILDING HEIGHT 27'-6"

**NUMBER OF STORIES (504.4)**  
(B) ALLOWABLE NUMBER OF STORIES 2  
(B) PROPOSED NUMBER OF STORIES 1

**BUILDING AREA (506)**  
At = Tabular Area, If = Frontage Increase, Is = Sprinkler System Increase

If =  $[F/P - 0.25]W/30$   
If =  $[228 - 228 - 0.25]30/30$  If = 0.75

**FIRST LEVEL**  
(B) ALLOWABLE 9,000 SF  
If = 6,750 SF  
TOTAL = 15,750 3,531 SF

**FIRE RESISTIVE REQUIREMENTS FOR VB (TABLE 601)**

PRIMARY STRUCTURAL FRAME	0 HR	RATING
BEARING WALLS		
EXTERIOR	0 HR	RATING
INTERIOR	0 HR	RATING
NON BEARING WALLS	0 HR	RATING
FLOOR CONSTRUCTION	0 HR	RATING
ROOF CONSTRUCTION	0 HR	RATING
CORRIDOR (202, 1020.1)	0 HR	RATING 1020.1 EX 4

**OCCUPANT LOAD CALCULATION (COMPLETE FACILITY) (TABLE 1004.1.2)**

FIRST LEVEL

ASSEMBLY	535 SF/(15)	= 36
BUSINESS	3,531 SF/(100)	= 35.3
TOTAL OCCUPANTS		= 72

**EGRESS WIDTH (TABLE 1005.1)**

STAIRWAYS	0.3" PER OCCUPANT [44" MIN. (1011.2)]
OTHER EGRESS	0.2 INCHES PER OCCUPANT (0.15 INCHES PER OCCUPANT W/ SPRINKLER SYSTEM)

**EXITS REQUIRED (1006.2)**

REQUIRED NUMBER OF EXITS	1
PROVIDED NUMBER OF EXITS	3

**PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)**

TOTAL OCCUPANTS	72	REQUIRED	ACTUAL
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**FACILITY**

**WATER CLOSETS**  
B = 72 OCCUPANTS - 36 F / 36 M = 1.44 M / 1.44 F 2 M / 2 F

**LAVATORIES**  
B = 72 OCCUPANTS - 36 F / 3366 F = .9 M / 9 F (2902.2 EX. 2) 2 M / 2 F

**DRINKING FOUNTAINS**  
B = 72 OCCUPANTS - = 1 2

**SERVICE SINKS**  
= 1 1

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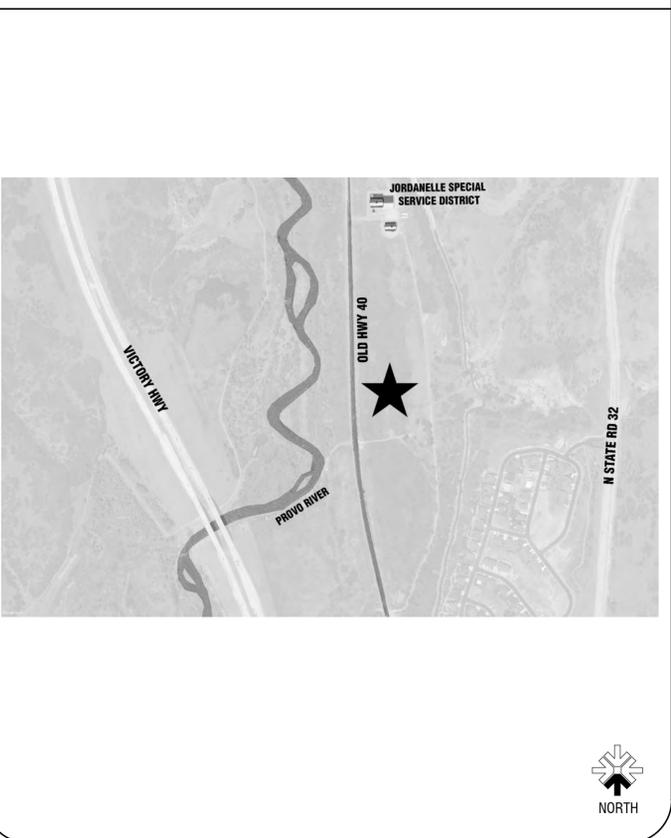
### ABBREVIATIONS

ARR	DESCRIPTION	ARR	DESCRIPTION	ARR	DESCRIPTION
ACC STA	ACCESSIBLE STATION	EIFS	EXTERIOR INSULATION	d	PENNY
AC	ACOUSTIC, ACOUSTICAL	FIN	FINISH SYSTEM	P-LAM	PLASTIC LAMINATE PLATE
ABS	ACRYLONITRILE-BUTADIENE -STYRENE	FEC	FIRE EXTINGUISHER CABINET	PLYWD	PLYWOOD
AD	ADDENDUM	FLR	FLOOR	PVC	POLYVINYL CHLORIDE
ADJ	ADJUSTABLE	FD	FLOOR DRAIN	PREFAB	PREFABRICATED
AFF	ABOVE FINISH FLOOR	FTG	FOOTING	PT	PRESERVATIVE TREATED
ALT	ALTERNATE	FDN	FOUNDATION	PROJ	PROJECTION
ALUM	ALUMINUM	FRP	FIBER REINFORCED PANEL	QT	QUARRY TILE
AB	ANCHOR BOLT	GALV	GALVANIZED	RAD	RADIUS
L	ANGLE	REF	REFRIGERATOR	REIN	REINFORCE
ASI	ARCHITECT SUPPLEMENTAL INSTRUCTION	GI	GALVANIZED IRON	REIN	REINFORCE
ASPH	ASPHALT	GA	GAUGE	REV	REVISION
BSMT	BASEMENT	GYP BD	GYPSUM BOARD	RFI	REQUEST FOR INFORMATION
BB	BASKETBALL	HDWD	HARDWOOD	RD	ROOF DRAIN
BRG	BEARING	HT	HEIGHT	RO	ROUGH OPENING
BM	BENCH MARK	HM	HOLLOW METAL	R/	ROUND
BLKG	BLOCKING	HORIZ	HORIZONTAL	SCHED	SCHEDULE
BD	BOARD	ID	INSIDE DIAMETER	SIM	SIMILAR
B.O.	BOTTOM OF	INSUL	INSULATION	SHT	SHEET
BLDG	BUILDING	INT	INTERIOR	SPEC	SPECIFICATION
B.U.R.	BUILT UP ROOF	JT	JOINT	SQ	SQUARE
CLG	CEILING	KD	KNOCK DOWN	SS	STAINLESS STEEL
CL	CENTER LINE	KO	KNOCK OUT	STD	STANDARD
CT	CERAMIC TILE	LLV	LONG LEG VERTICAL	STL	STEEL
CB	CHALKBOARD	MH	MANHOLE	STOR	STORAGE
C	CHANNEL	MFR	MANUFACTURER	STRUCT	STRUCTURAL
CO	CLEAN OUT	MB	MARKER BOARD	SUSP	SUSPENDED, SUSPENSION
COL	COLUMN	MO	MASONRY OPENING	SYS	SYSTEM
CONC	CONCRETE	MAX	MAXIMUM	TB	TACKBOARD
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL	TEL	TELEPHONE
CONN	CONNECTION	MT	MOUNT	TV	TELEVISION
CONT	CONTINUOUS	MTL	METAL	TEMP	TEMPORARY
CONTR	CONTRACTOR	MIN	MINIMUM	TS	TUBE STEEL
DIM	DIMENSION	MISC	MISCELLANEOUS	THRES	THRESHOLD
DS	DOWNSPOUT	(N)	NEW	TOIL	TOILET
DWG	DRAWING	NIC	NOT IN CONTRACT	T.O.	TOP OF
EA	EACH	NTS	NOT TO SCALE	T & B	TOP AND BOTTOM
ELECT	ELECTRICAL	O.C.	ON CENTER	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	OPNG	OPENING	VERT	VERTICAL
ELEV	ELEVATION	OPP	OPPOSITE	U.N.O.	UNLESS NOTED OTHERWISE
EQ	EQUAL	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
EQUIP	EQUIPMENT	OH	OVERHEAD	WM	WATER METER
EXIST	EXISTING	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED	WWF	WELDED WIRE FABRIC
(E)	EXISTING	OF/OI	OWNER FURNISHED / OWNER INSTALLED	W	WIDE FLANGE
EXP	EXPANSION	PART BD	PART BOARD	WDO	WIDE FLANGE
EXT	EXTERIOR	PART'N	PARTITION	W/	WITH
				W/O	WITHOUT
				WD	WOOD

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### VICINITY MAP



**design west | architects**  
295 SOUTH 300 WEST  
LOGAN UT 84321  
795 NORTH 400 WEST  
SALT LAKE CITY UT 84103

**JSSD ADMINISTRATION BUILDING**  
5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032  
JORDANELLE SPECIAL SERVICE DISTRICT

PROJECT #: 818120  
DRAWN BY: DC  
CHECKED BY: SO  
ISSUED: 07-17-18

**PROJECT INFORMATION**

G-002

11/20/2018 10:00 AM

REVIEWED FOR CODE  
COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB



COMcheck Software Version 4.3.5.1  
Envelope Compliance Certificate

Project Information

Energy Code: 2015 IECC  
Project Title: 818120 - JSSD  
Location: Heber City, Utah  
Climate Zone: 6b  
Project Type: New Construction  
Vertical Glazing / Wall Area: 15%

Construction Site: 5360 North Old Hwy 40, HEBER CITY, Utah 84032  
Owner/Agent:  
Designer/Contractor: DESIGN WEST ARCHITECTS

Additional Efficiency Package(s)  
Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Building Area	Floor Area
1-Office : Nonresidential	3520

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sub>req</sub>
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Office] (c)	248	---	10.0	0.540	0.540
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Office]	3520	49.0	0.0	0.021	0.021
<b>NORTH</b>					
Ext. Wall - NW: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	700	19.0	5.0	0.048	0.051
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID STOREFRONT, SHGC 0.40, [Bldg. Use 1 - Office] (b)	30	---	---	0.320	0.360
Door: Perf. Specs.: Product ID STOREFRONT DOOR, SHGC 0.25, [Bldg. Use 1 - Office] (b)	27	---	---	0.320	0.770
Clarestory - NW: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	37	19.0	0.0	0.067	0.051
<b>EAST</b>					
Ext. Wall - NE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	880	19.0	5.0	0.048	0.051
Window: Metal Frame with Thermal Break: Operable, Perf. Specs.: Product ID STOREFRONT, SHGC 0.40, [Bldg. Use 1 - Office] (b)	90	---	---	0.320	0.430
Clarestory - NE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	106	19.0	0.0	0.067	0.051
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID STOREFRONT, SHGC 0.40, [Bldg. Use 1 - Office] (b)	30	---	---	0.320	0.360
<b>SOUTH</b>					
Ext. Wall - SE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	700	19.0	5.0	0.048	0.051
Window: Metal Frame with Thermal Break: Operable, Perf. Specs.: Product ID STOREFRONT, SHGC 0.40, [Bldg. Use 1 - Office] (b)	96	---	---	0.320	0.430
Door: Insulated Metal, Perf. Specs.: Product ID STOREFRONT DOOR, SHGC 0.40, [Bldg. Use 1 - Office] (b)	21	---	---	0.320	0.770
Clarestory - SE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	37	19.0	0.0	0.067	0.051
<b>WEST</b>					

Project Title: 818120 - JSSD Report date: 06/08/18  
Data filename: Page 1 of 9

Envelope inspection method shall be blower test.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sub>req</sub>
Ext. Wall - SW: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	940	19.0	5.0	0.048	0.051
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID STOREFRONT, SHGC 0.40, [Bldg. Use 1 - Office] (b)	120	---	---	0.320	0.360
Door: Perf. Specs.: Product ID STOREFRONT DOOR, SHGC 0.40, [Bldg. Use 1 - Office] (b)	67	---	---	0.320	0.770
Clarestory - SW: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Office]	106	19.0	0.0	0.067	0.051
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID STOREFRONT, SHGC 0.40, [Bldg. Use 1 - Office] (b)	30	---	---	0.320	0.360

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.  
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.  
(c) Slab On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 2% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.3.5.1 and to comply with any applicable mandatory requirements listed in the inspection Checklist.

Dezek C. Project Manager Signature Date 7-27-18

Project Title: 818120 - JSSD Report date: 06/08/18  
Data filename: Page 2 of 9

design west | architects  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

JSSD ADMINISTRATION BUILDING  
5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032  
JORDANELLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
2	10/28/18	CITY COMMENTS

PROJECT #: 818120  
DRAWN BY: Author  
CHECKED BY: Checker  
ISSUED: 07-17-18



COMCHECK

G-003

REVIEWED FOR CODE  
COMPLIANCE BY  
**WASATCH COUNTY**  
APPROVED PLANS MUST  
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**Jackson Engineering**  
3376 Stonehill Lane  
Cottonwood Heights, Utah 84121  
Phone (801) 588-5293  
Fax (801) 943-0108

FOR:  
JORDANELLE SPECIAL  
SPECIAL SERVICE DISTRICT  
5780 N. OLD HWY 40  
HEBER CITY, UT 84032  
CONTACT:  
MAX COVEY  
PHONE: (435) 654-9233

JORDANELLE SPECIAL SERVICE DISTRICT  
ADMINISTRATION BUILDING  
ADMINISTRATIVE & TREATMENT FACILITY AREA PLAN



NO.	DATE	REVISION	BY

PROJECT NO.: 18.067.103      DATE: 8/30/2018  
DRAWN BY: SP      CHECKED BY: S.J.  
PROJECT MANAGER:  
S. JACKSON

SITE PLAN  
**CS100**



0 120' 240' 360'  
SCALE 1"=120'  
(22 X 34 SHEET)



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Fax (801) 943-0108

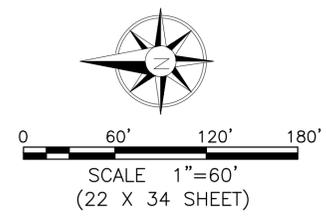
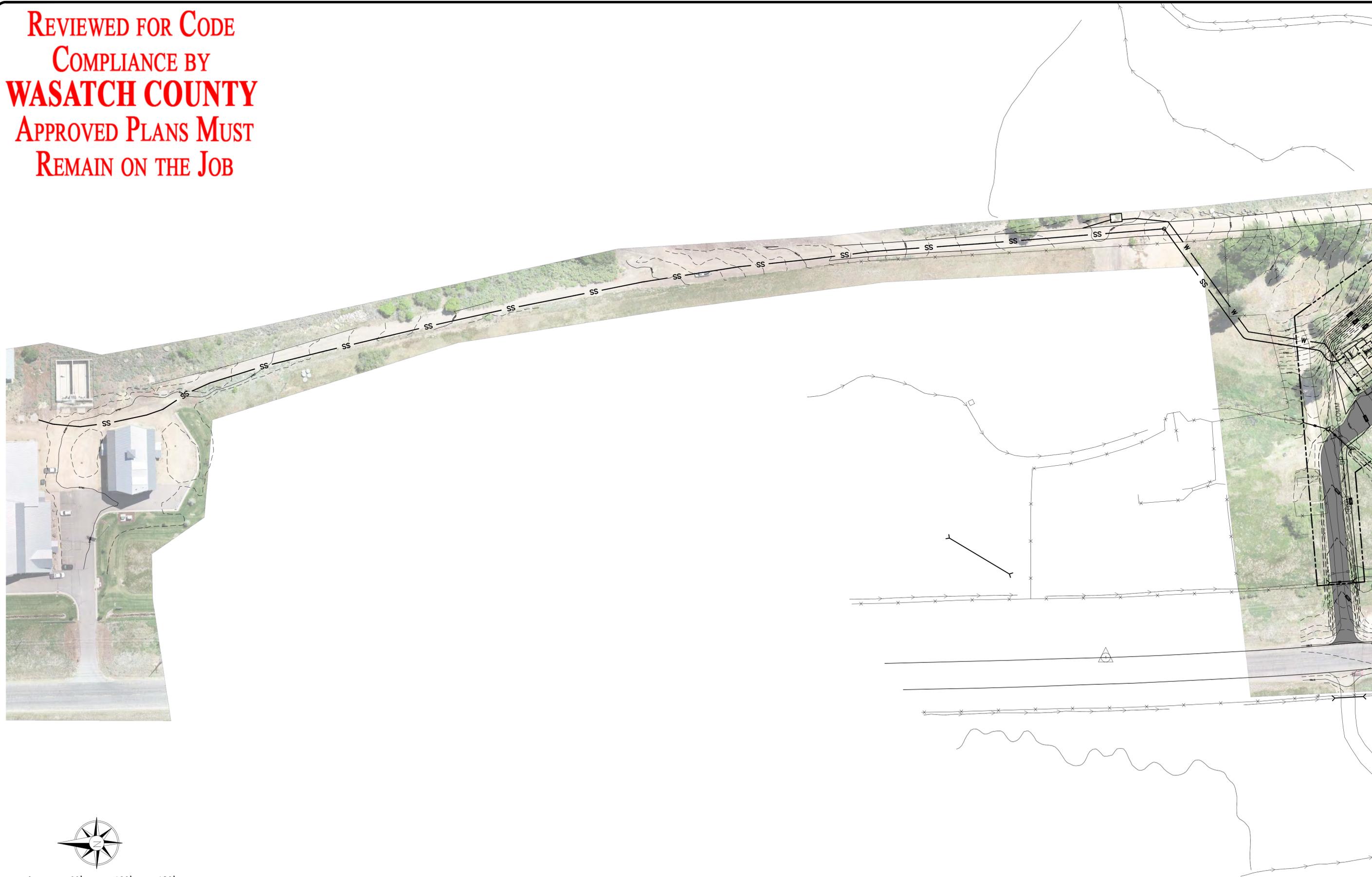
FOR:  
JORDANELLE SPECIAL  
SPECIAL SERVICE DISTRICT  
5780 N. OLD HWY 40  
HEBER CITY, UT 84032  
CONTACT:  
MAX COVEY  
PHONE: (435) 654-9233

JORDANELLE SPECIAL SERVICE DISTRICT  
ADMINISTRATION BUILDING  
SEWER PLAN



NO.	DATE	REVISION	BY

PROJECT NO.:	DATE:
18.067.103	8/30/2018
DRAWN BY:	CHECKED BY:
SP	S.J.
PROJECT MANAGER:	
S. JACKSON	



SEWER PLAN  
**C102**



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**LANDSCAPING NOTES**

1. LANDSCAPING TO CONSIST OF 4"-8" DIAMETER COBBLE ROCK 8 FEET BEYOND THE BUILDING WITH RE-SEEDING OF ALL DISTURBED AREAS; GRANITE SEED "CABON BLEND".

**KEY NOTES**

- ① 4" - 8" COBBLE ROCK
- ② LOW PROFILE BUSH
- ③ DISTURBED AREA TO BE RESEEDED WITH NATIVE GRASS MIX

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3376 Stonehill Lane  
Cottonwood Heights, Utah 84121  
Phone (801) 588-5293  
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JORDANELLE SPECIAL  
SERVICE DISTRICT  
5780 N. OLD HWY 40  
HEBER CITY, UT 84032  
CONTACT:  
MAX COVEY  
PHONE: (435) 654-9233

JORDANELLE SPECIAL SERVICE DISTRICT  
ADMINISTRATION BUILDING  
LANDSCAPE PLAN



NO.	DATE	REVISION	BY

PROJECT NO.: 18.067.103  
DATE: 8/30/2018  
DRAWN BY: SP  
CHECKED BY: SJ  
PROJECT MANAGER: S. JACKSON

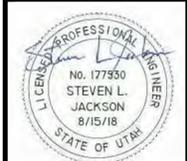
**SITE PLAN  
CS104**

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**Jackson Engineering**  
3376 Stonehill Lane  
Cottonwood Heights, Utah 84121  
Phone (801) 558-5293  
Fax (801) 943-0108

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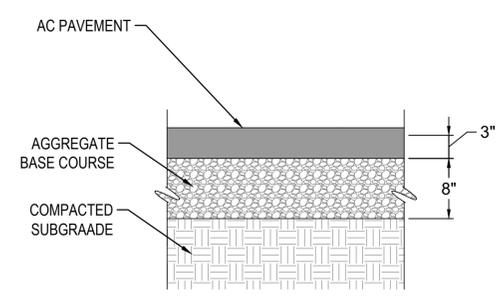
**JORDANELLE SPECIAL SERVICE DISTRICT  
ADMINISTRATION BUILDING  
CIVIL DETAILS**



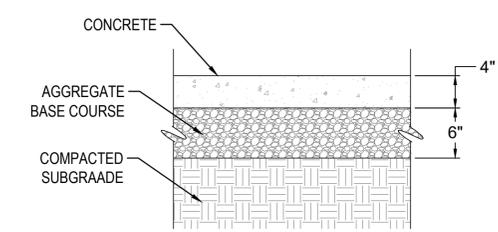
NO.	DATE	REVISION	BY

PROJECT NO.:	DATE:
18.067.103	8/30/2018
DRAWN BY:	CHECKED BY:
SP	SJ
PROJECT MANAGER:	
S. JACKSON	

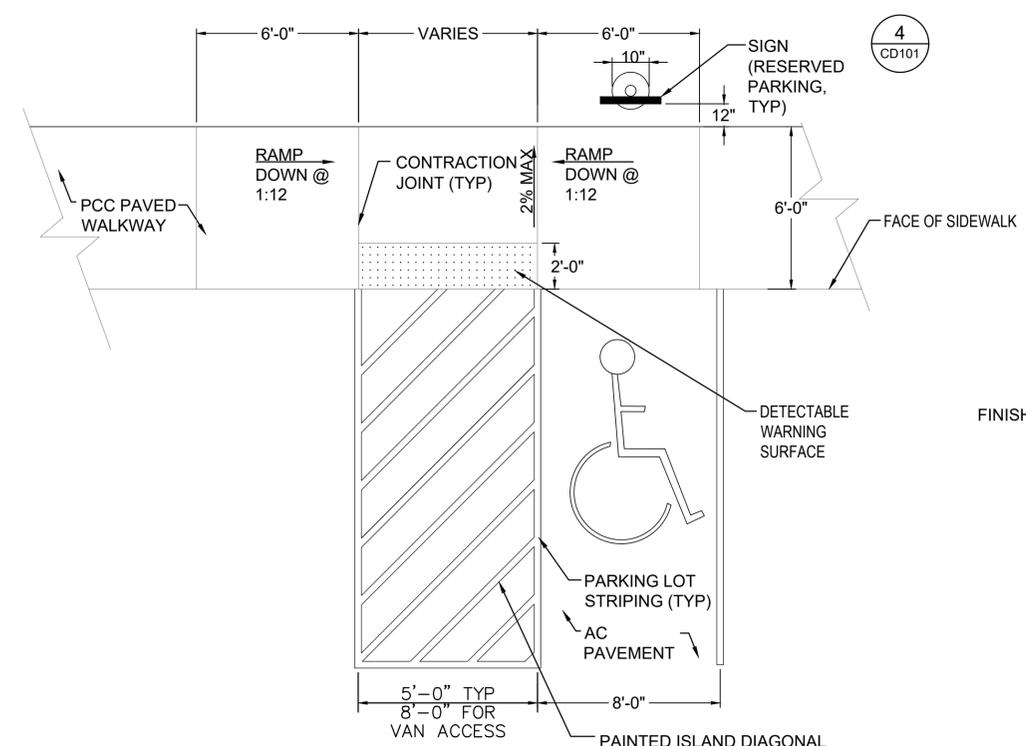
**CIVIL DETAILS  
CD101**



**1**  
**PARKING  
AC PAVEMENT**  
NO SCALE

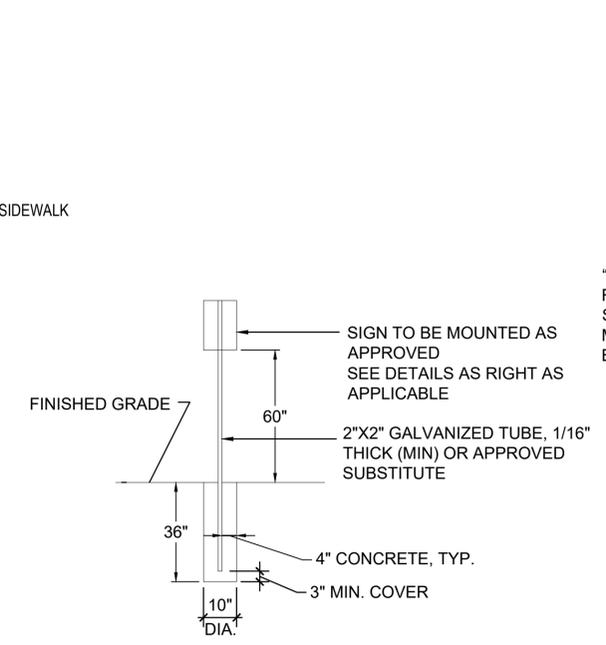


**2**  
**CONCRETE SIDEWALK**  
NO SCALE



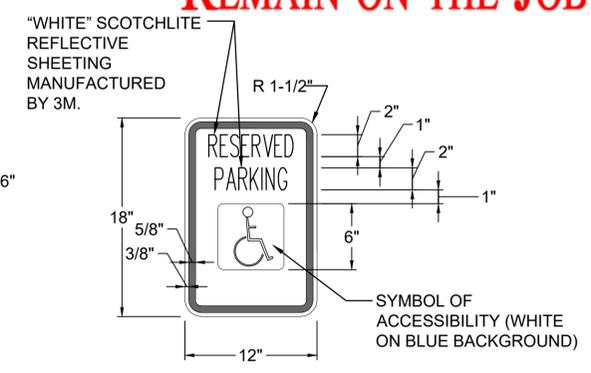
- NOTES:**
- DETECTABLE WARNING SURFACE ONLY PRESENT ADJACENT TO DIAGONALLY STRIPED AREAS.
  - SIGN SHALL INCLUDE THE INTERNATIONAL SYMBOL FOR ACCESSIBILITY. VAN ACCESS SPACE (DENOTED ON C-104) SHALL HAVE "VAN ACCESSIBLE" SIGN.

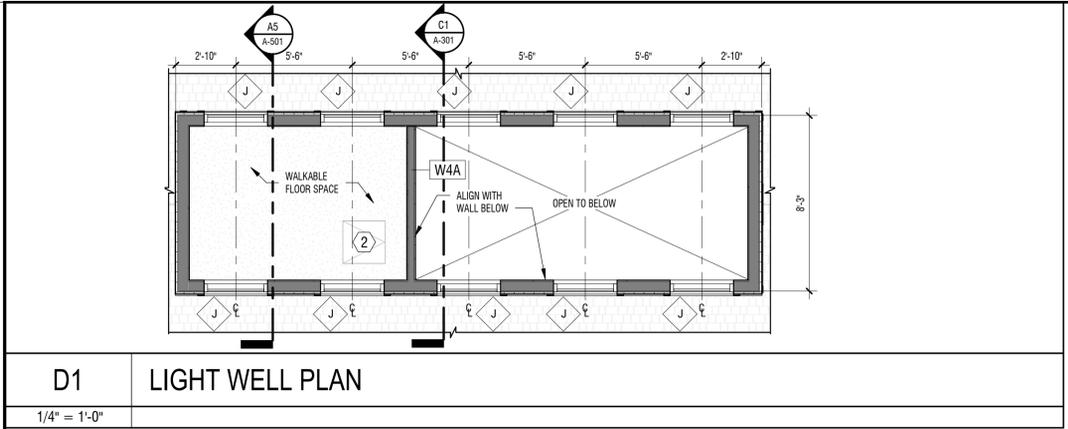
**3**  
**ACCESSIBLE PARKING SPACES**  
NO SCALE



- NOTES:**
- SIGN POST SHALL BE INSTALLED 12" FROM BACK OF CURB AND CENTERED IN FRONT OF PARKING STALL. FOR PARALLEL PARKING SPACES, SIGN SHALL BE CENTERED IN MIDDLE OF STALL.
  - SIGN SHALL BE FABRICATED IN CONFORMANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
  - LETTERS AND SYMBOLS SHALL BE "WHITE" SCOTCHLITE REFLECTIVE SHEETING.
  - SEE SIGN DETAILS ON THIS SHEET FOR SPECIFIC SIGN LOCATIONS AND TEXT.

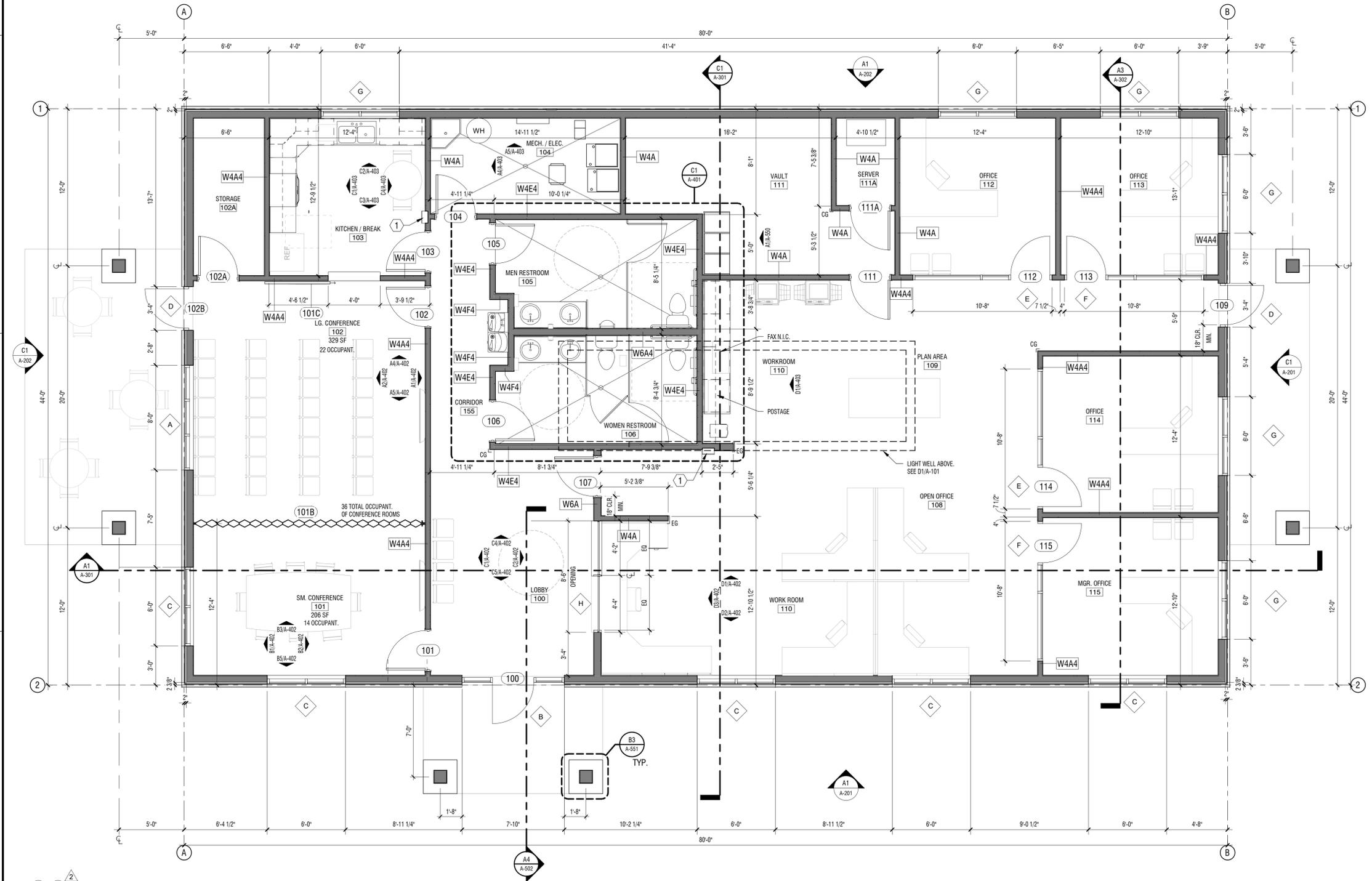
**4**  
**SIGN**  
NO SCALE





D1 LIGHT WELL PLAN

1/4" = 1'-0"



A1 FLOOR PLAN

1/4" = 1'-0"

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**FLOOR PLAN KEYED NOTES**

MARK	Description
1	FIRE EXTINGUISHER CABINET SEMI RECESSED, WHITE W/ FULL PANEL GLAZING, LETTERING, RED VERTICAL.
2	ACCESS HATCH BELOW, SEE SHEET A-701.

**GENERAL NOTES**

- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE. LARGER SCALE DRAWINGS SHALL HAVE PRECEDENCE OVER SMALLER SCALE DRAWINGS. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DIMENSION DISCREPANCIES OR CONFLICTS BEFORE PROCEEDING WITH THAT PORTION OF WORK. CONTRACTOR SHALL VERIFY LAY-OUT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL.
- ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD / MASONRY. ALL EXTERIOR DIMENSIONS ARE TO FACE OF FINISH TO FACE OF FINISH AND SHALL BE MAINTAINED AND CANNOT BE FIELD ADJUSTED WITHOUT PRIOR APPROVAL BY THE ARCHITECT. ALL DOOR FRAMES SHALL BE 3" MIN. FROM WALL U.N.O.
- CG, EG = CORNER GUARD, END GUARD. SEE FINISH LEGEND FOR MATERIAL.
- BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT
- FE = FIRE EXTINGUISHER
- SEE EQUIPMENT DRAWINGS FOR SLOPES IN AREAS W/ CONVEYOR SYSTEM.
- SEE SCHEDULES FOR DOOR AND WINDOW TYPES.
- SLAB ELEVATION

**WALL TYPES**

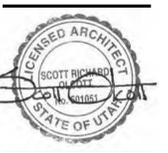
MARK	RATING/STC	DESCRIPTION
W4A	N/A	5/8" GYP BD. 2x4" WD STUD @ 16" O.C. 5/8" GYP BD. EXTEND TO BOTTOM OF TRUSS
W4A4	N/A	5/8" GYP BD. 2x4" WD STUD @ 16" O.C. SOUND BATT 5/8" GYP BD. EXTEND TO BOTTOM OF TRUSS
W4F4	N/A	TILE WAINSCOT 5/8" GLASS MAT GYP BD. 2x4" WD STUD @ 16" O.C. SOUND BATT 5/8" GLASS MAT GYP BD. TILE WAINSCOT EXTEND TO BOTTOM OF TRUSS
W4E4	N/A	5/8" GYP BD. 2x4" WD STUD @ 16" O.C. SOUND BATT 5/8" GLASS MAT GYP BD. TILE WAINSCOT EXTEND TO BOTTOM OF TRUSS
W6A	N/A	5/8" GYP BD. 2x6" WD STUD @ 16" O.C. 5/8" GYP BD. EXTEND TO BOTTOM OF TRUSS
W6A4	N/A	TILE WAINSCOT 5/8" GLASS MAT GYP BD. 2x6" WD STUD @ 16" O.C. SOUND BATT 5/8" GLASS MAT GYP BD. TILE WAINSCOT EXTEND TO BOTTOM OF TRUSS

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**JSSD ADMINISTRATION BUILDING**  
5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032  
JORDANELLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
2	10/28/18	CITY COMMENTS

PROJECT #: 818120  
DRAWN BY: DC  
CHECKED BY: SO  
ISSUED: 07-17-18



OVERALL MAIN FLOOR PLAN

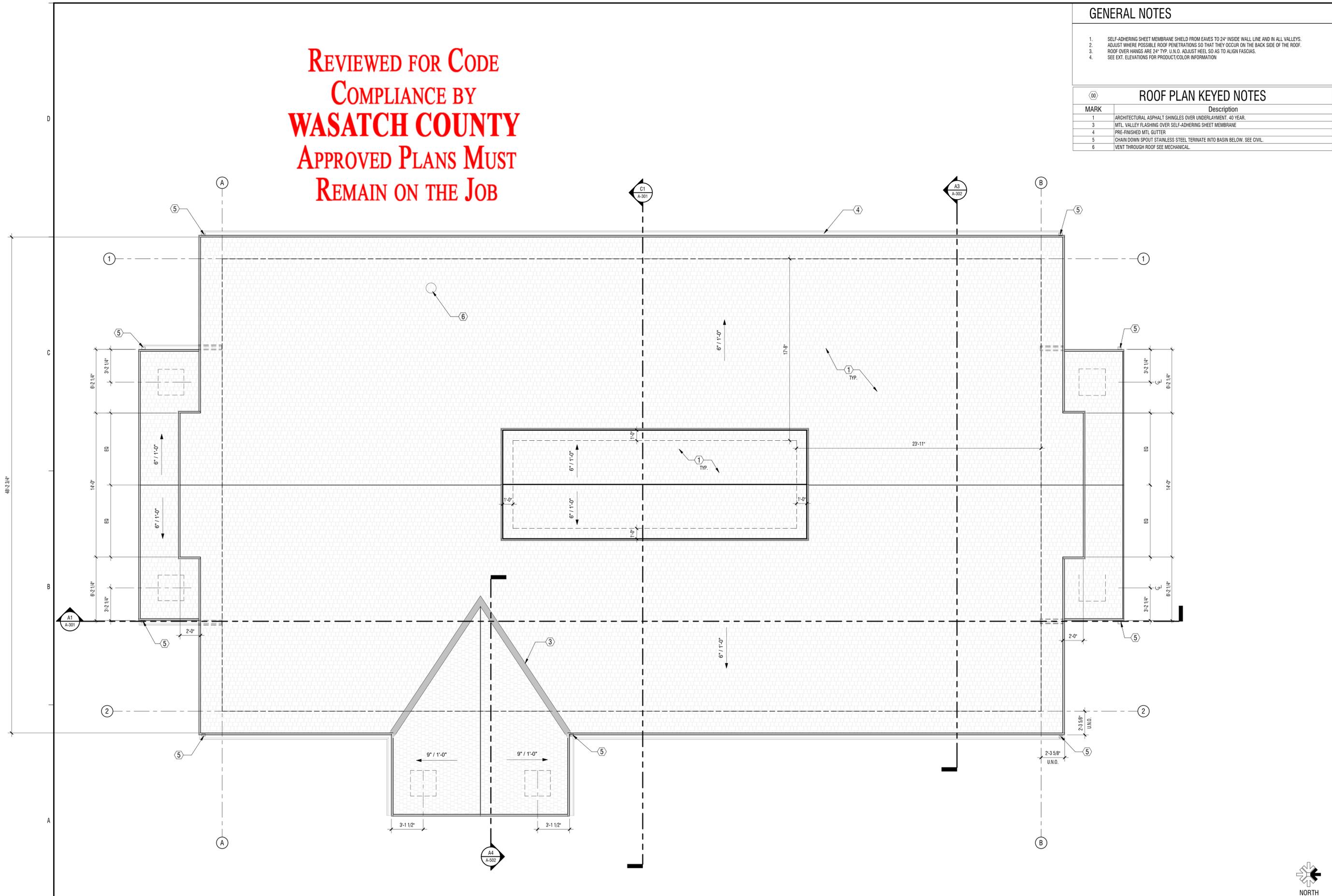
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**GENERAL NOTES**

1. SELF-ADHERING SHEET MEMBRANE SHIELD FROM EAVES TO 24" INSIDE WALL LINE AND IN ALL VALLEYS.
2. ADJUST WHERE POSSIBLE ROOF PENETRATIONS SO THAT THEY OCCUR ON THE BACK SIDE OF THE ROOF.
3. ROOF OVER HANDS ARE 24" TYP. U.N.O. ADJUST HEEL SO AS TO ALIGN FASCIAS.
4. SEE EXT. ELEVATIONS FOR PRODUCT/COLOR INFORMATION

**ROOF PLAN KEYED NOTES**

MARK	Description
1	ARCHITECTURAL ASPHALT SHINGLES OVER UNDERLAYMENT, 40 YEAR.
3	MTL. VALLEY FLASHING OVER SELF-ADHERING SHEET MEMBRANE
4	PRE-FINISHED MTL. GUTTER
5	CHAIN DOWN SPOUT STAINLESS STEEL TERMINATE INTO BASIN BELOW. SEE CIVIL.
6	VENT THROUGH ROOF SEE MECHANICAL.



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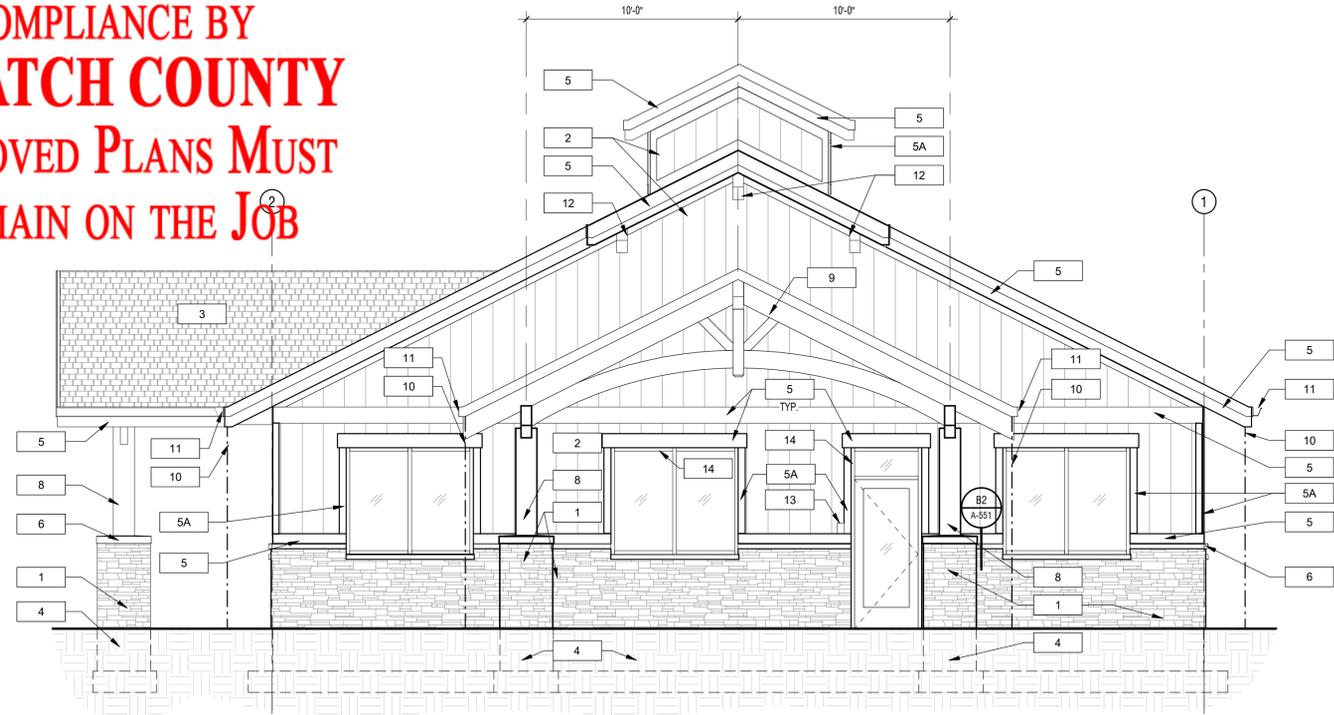


OVERALL ROOF PLAN

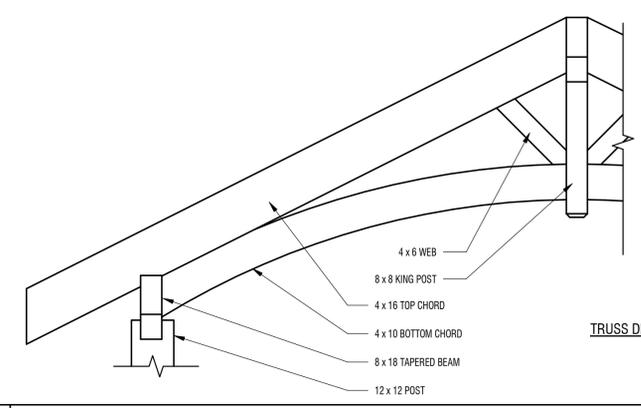
**A1**  
**ROOF PLAN**  
 1/4" = 1'-0"

A-102  
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ELEVATION KEY NOTES		
MARK	DESCRIPTION	COLOR / MANUFACTURER
1	STONE VENEER	DELTA STONE, SIGNATURE LINE, GREY LEDGE
2	BOARD AND BATTON FIBERCEMENT SIDING	PAINT SW 7039
3	ARCHITECTURAL ASPHALT SHINGLES	LANDMARK, MAX. DEF. DRIFTWOOD
4	CONC. FOOTING & FOUNDATION	
5	1X8 FIBERCEMENT FACIA	PAINT SW 7039
5A	1X8 FIBERCEMENT TRIM	PAINT SW 6385
6	PRECAST CONC. SILL, 4" PROFILE	
8	12" X 12" TIMBER COLUMN	STAIN AS SELECTED BY ARCHITECT
9	TIMBER TRUSS, SEE C4/A-201	STAIN AS SELECTED BY ARCHITECT
9A	TIMBER TRUSS, SEE C4/A-201	STAIN AS SELECTED BY ARCHITECT
10	RAIN CHAIN, DOWNPOUT, SEE CIVIL DRAWINGS	MARINE - GRADE 3160 STAINLESS STEEL
11	PRE-FINISHED MTL. GUTTER	COLOR TO MATCH WINDOW/DOOR SYSTEM
12	CORBAL, FIBERCEMENT, 8 X 12	STAIN AS SELECTED BY ARCHITECT
13	KEY CARD READER, SEE DOOR HARDWARE	
14	WINDOW/DOOR SYSTEM	ANNOZIZED ALUM, BLACK



TRUSS DESIGN SHALL BE A DEFERRED SUBMITTAL  
CONCEALED CONNECTIONS

C1 SOUTH BUILDING ELEVATION

1/4" = 1'-0"

C4 TYPICAL TIMBER TRUSS ELEVATION

1/2" = 1'-0"



A1 WEST BUILDING ELEVATION

1/4" = 1'-0"

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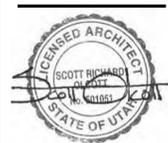
EXTERIOR  
ELEVATIONS

A-201

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MARK	DATE	DESCRIPTION
2	10/26/18	CITY COMMENTS

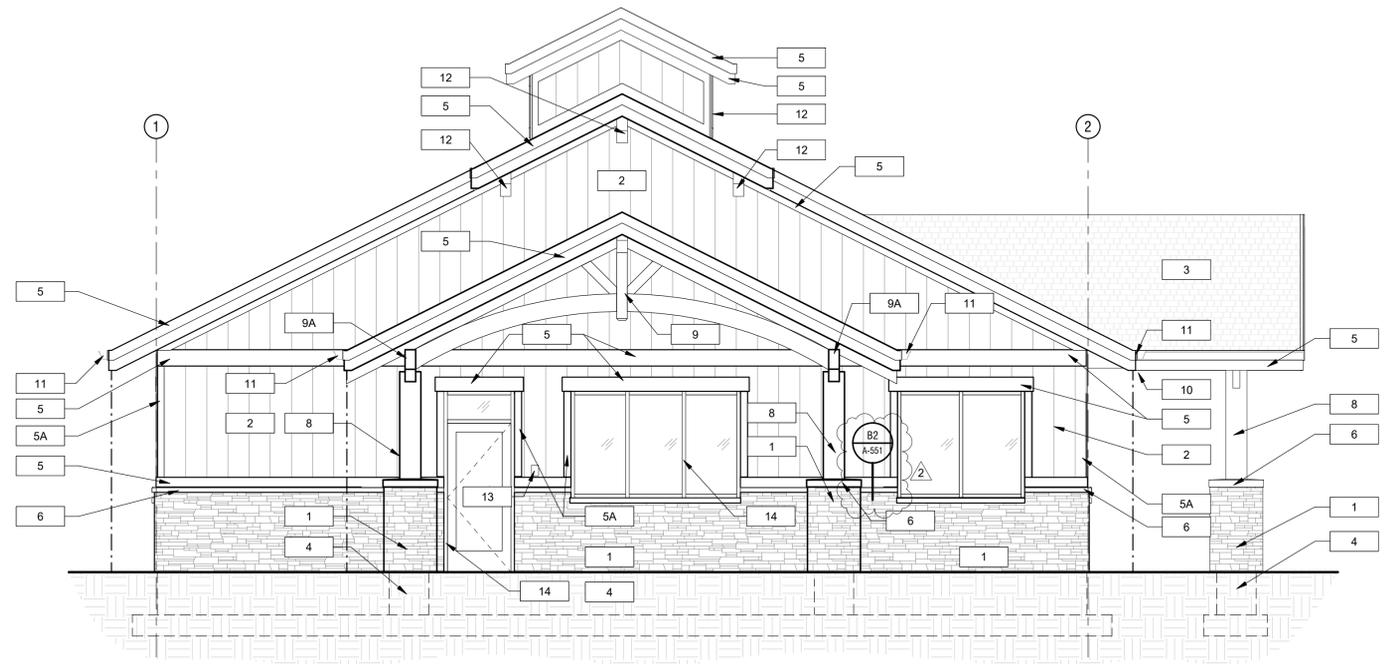
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ELEVATION KEY NOTES

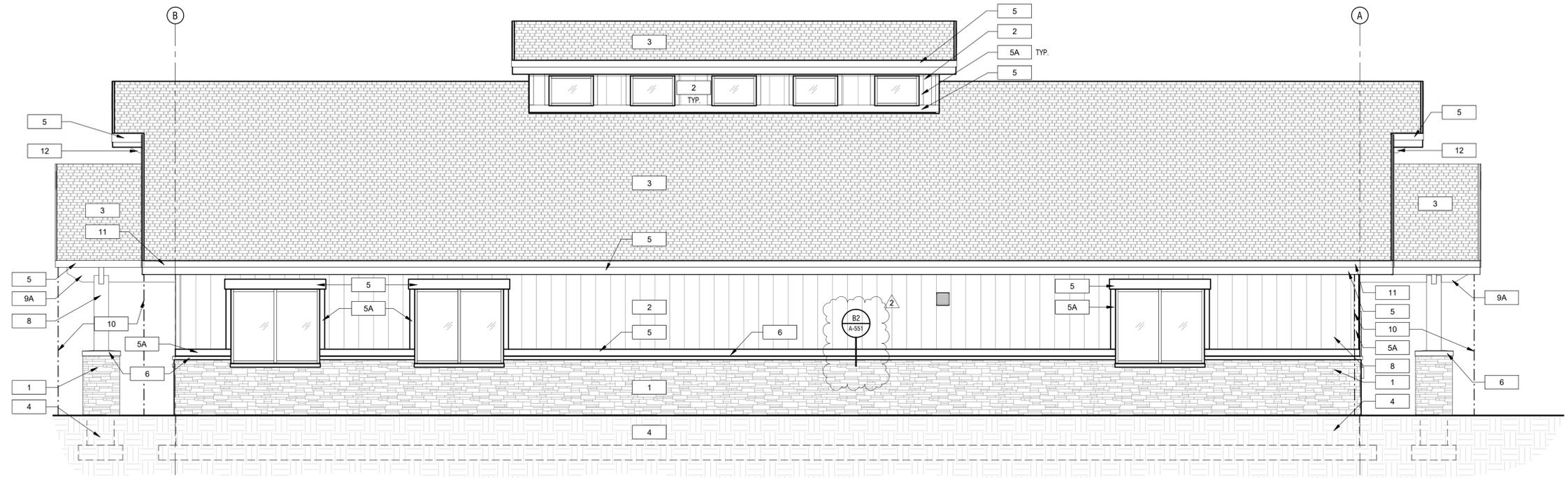
MARK	DESCRIPTION	COLOR / MANUFACTURER
00		
1	STONE VENEER	DELTA STONE, SIGNATURE LINE, GREY LEDGE
2	BOARD AND BATTON FIBERCEMENT SIDING	PAINT SW 7039
3	ARCHITECTURAL ASPHALT SHINGLES	LANDMARK, MAX. DEF. DRIFTWOOD
4	CONC. FOOTING & FOUNDATION	
5	1X8 FIBERCEMENT FACIA	PAINT SW 7039
5A	1X8 FIBERCEMENT TRIM	PAINT SW 6385
6	PRECAST CONC. SILL, 4" PROFILE	
8	12" X 12" TIMBER COLUMN	STAIN AS SELECTED BY ARCHITECT
9	TIMBER TRUSS, SEE C4/A-201	STAIN AS SELECTED BY ARCHITECT
9A	TIMBER TRUSS, SEE C4/A-201	STAIN AS SELECTED BY ARCHITECT
10	RAIN CHAIN, DOWNSPOUT, SEE CIVIL DRAWINGS	MARINE - GRADE 316S STAINLESS STEEL
11	PRE-FINISHED MTL. GUTTER	COLOR TO MATCH WINDOW/DOOR SYSTEM
12	CORBAL, FIBERCEMENT, 8 X 12	STAIN AS SELECTED BY ARCHITECT
13	KEY CARD READER, SEE DOOR HARDWARE	
14	WINDOW/DOOR SYSTEM	ANNOZED ALUM. BLACK

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C1 NORTH BUILDING ELEVATION

1/4" = 1'-0"



A1 EAST BUILDING ELEVATION

1/4" = 1'-0"

D

C

B

A

1

2

3

4

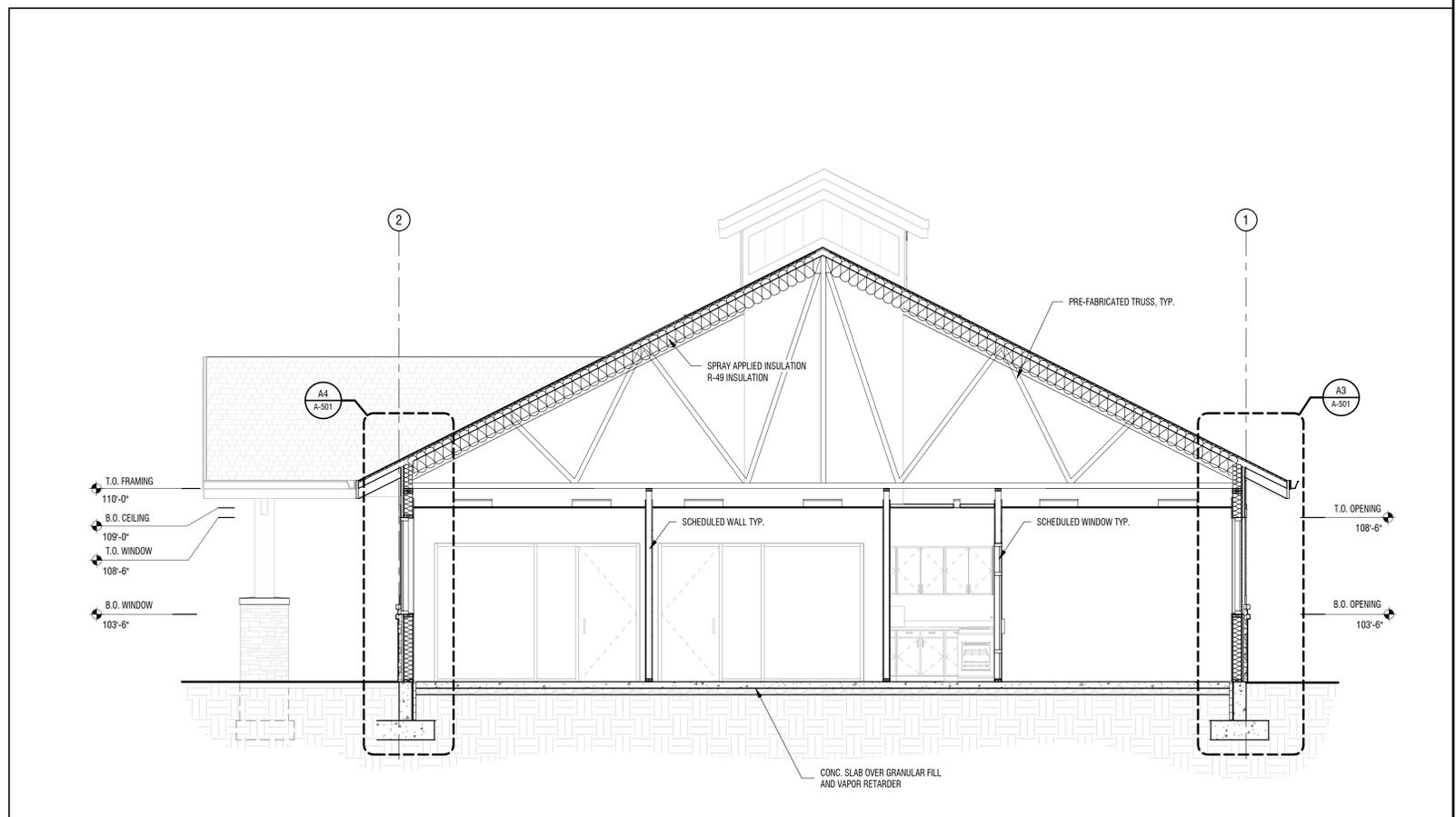
5



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A3	BUILDING SECTION
1/4" = 1'-0"	

MARK	DATE	DESCRIPTION

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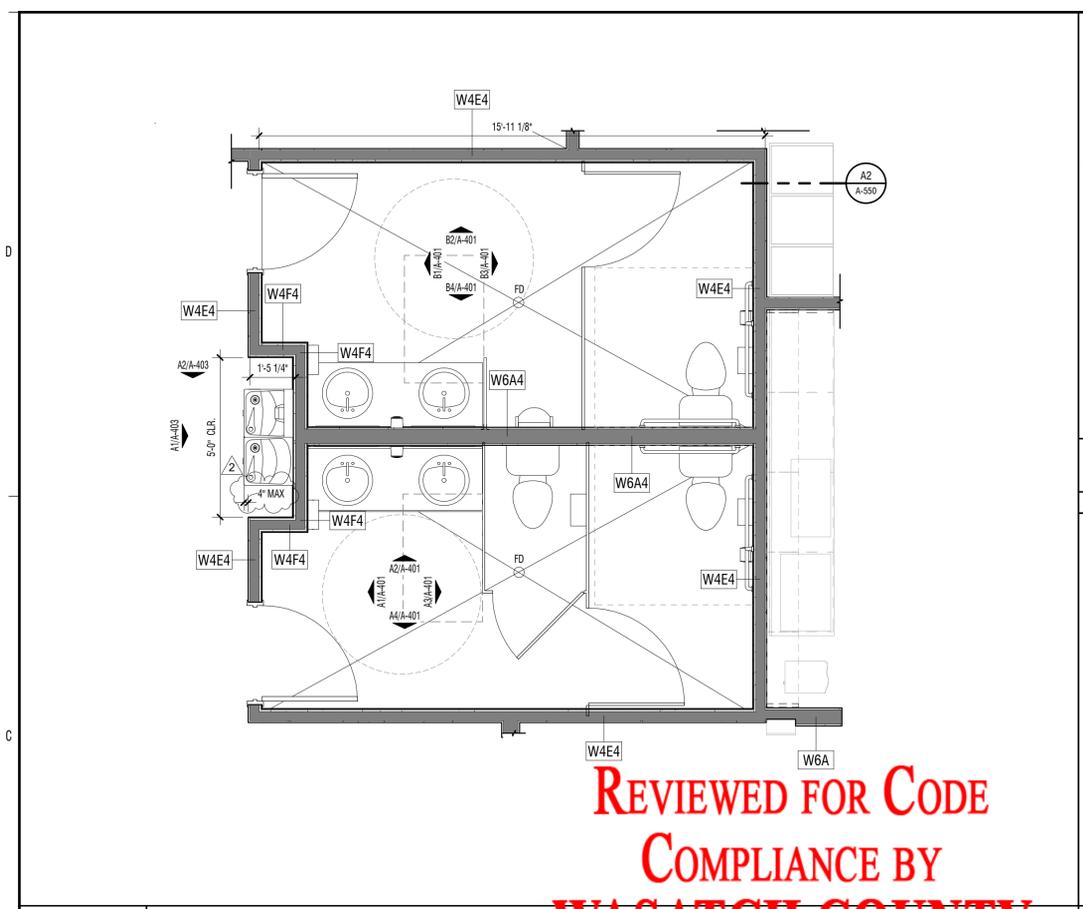


BUILDING SECTIONS

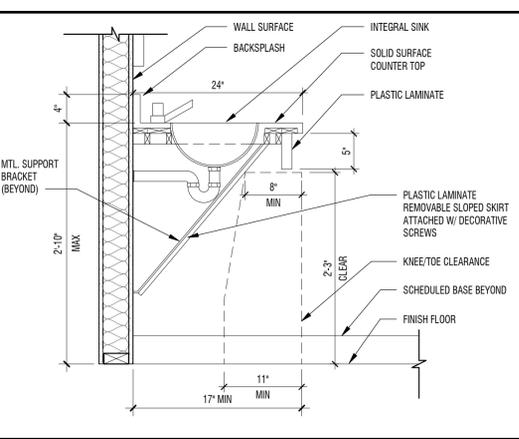
A-302  
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MARK	DATE	DESCRIPTION
1	10/26/18	CITY COMMENTS
2		

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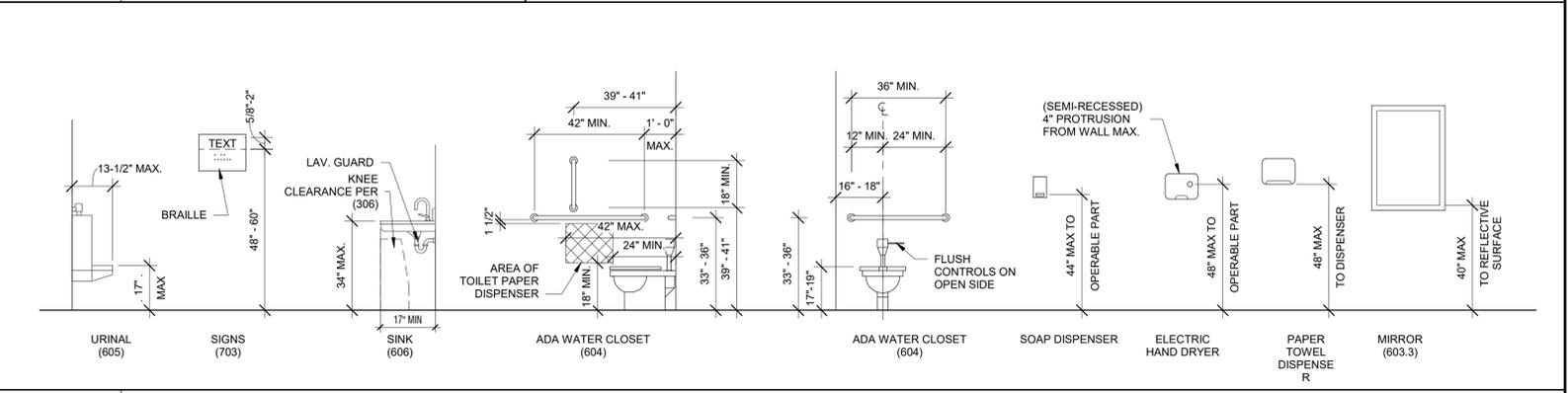
**C1 ENLARGED FLOOR PLAN**  
 3/8" = 1'-0"



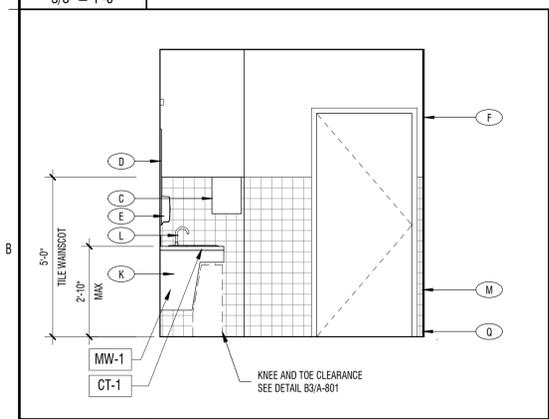
**D3 ADA SINK DETAIL**  
 1" = 1'-0"

- NOTES:
- PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT AND FIXTURES
  - DFCI - OWNER FURNISHED CONTRACTOR INSTALLED. ALL OTHER ITEMS ARE CONTRACTOR FURNISHED CONTRACTOR INSTALLED.
  - SEE FINISH PLAN AND SCHEDULES ON SHEETS A-603 AND A-604
- XXX CALLOUTS SIMILAR TO SHOWN ARE FINISH SCHEDULE TAGS.

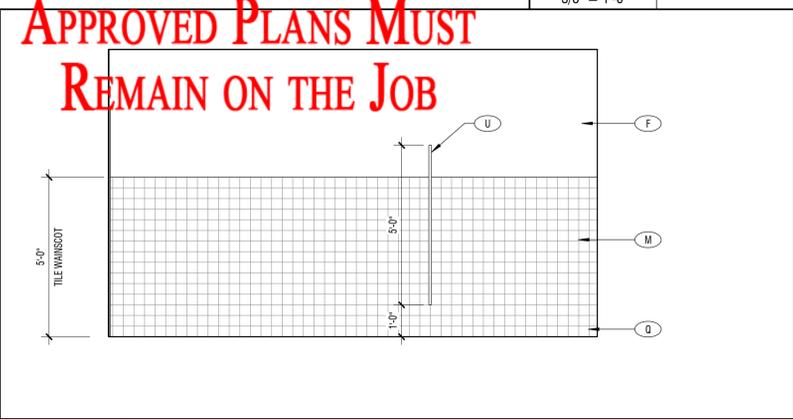
MARK	DESCRIPTION	RESPONSIBILITY
XX		
A	TOILET TISSUE DISPENSER	OFCI
B	GRAB BAR	
C	PAPER TOWEL DISPENSER	OFCI
D	MIRROR, B-1658 2436 24X36	
E	SOAP DISPENSER	OFCI
F	PAINTED GYP. - SEE FINISH SCHEDULED	
G	FEMININE NAPKIN DISPOSAL	OFCI
H	MOP & BROOM HOLDER, B-239X34	
K	DRAIN PIPE PROTECTION	
L	SINK, SEE PLUMBING	
M	TILE, SEE FINISH SCHEDULE	
N	MOP SINK, SEE PLUMBING DRAWINGS	
P	TOILET FLUSH CONTROLS ON OPEN SIDE, SEE PLUMBING	
Q	COVERED TILE BASE, SEE FINISH SCHEDULE	
R	FIBER REINFORCED PANEL AND TRIMS, WHITE	
S	DRINKING FOUNTAIN, SEE PLUMBING DRAWINGS.	
T	URINAL, SEE PLUMBING	
U	TOILET PARTITION, PROVIDE HOOK B-233	
V	URINAL PARTITION	
W	ELECTRIC RANGE N.I.C. (GE JS645SLSS) WITH HOOD SEE MECHANICAL PLANS RH-1	OFCI
WA	ADA SWITCH FOR ELECTRIC HOOD	OFCI
X	FORCED AIR UNIT, SEE MECHANICAL	
Y	WATER HEATER	
Z	PANELBOARD, SEE ELECTRICAL	



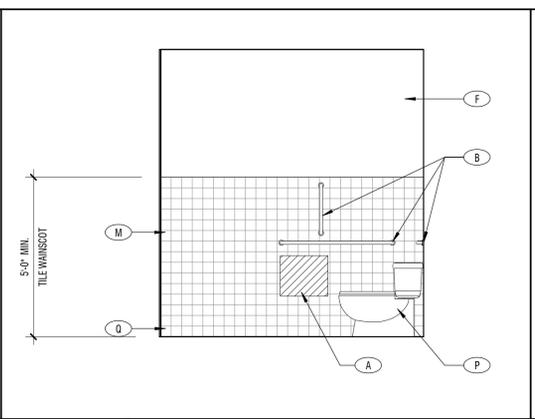
**C3 ADA STANDARDS BATHROOM**  
 3/8" = 1'-0"



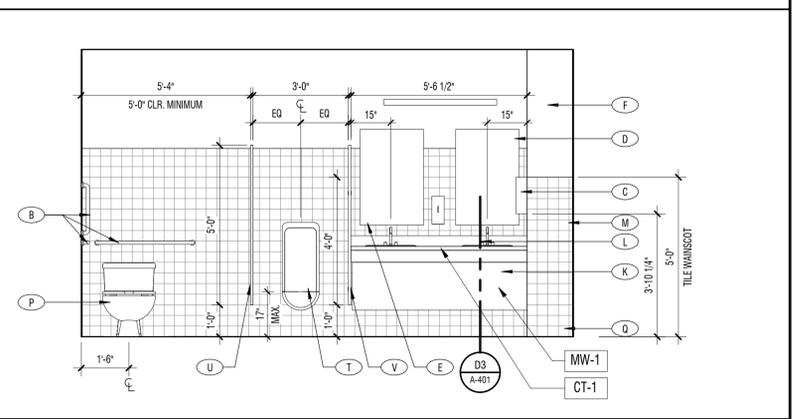
**B1 RESTROOM ELEVATION**  
 3/8" = 1'-0"



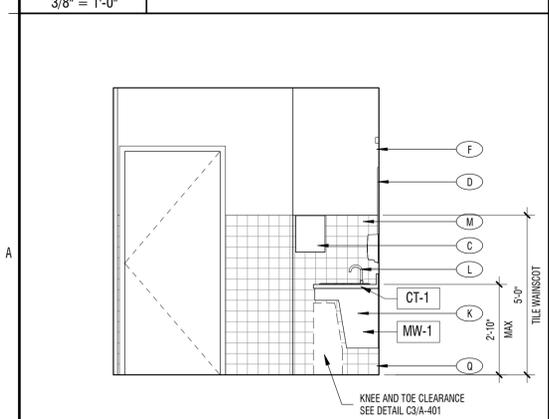
**B2 RESTROOM ELEVATION**  
 3/8" = 1'-0"



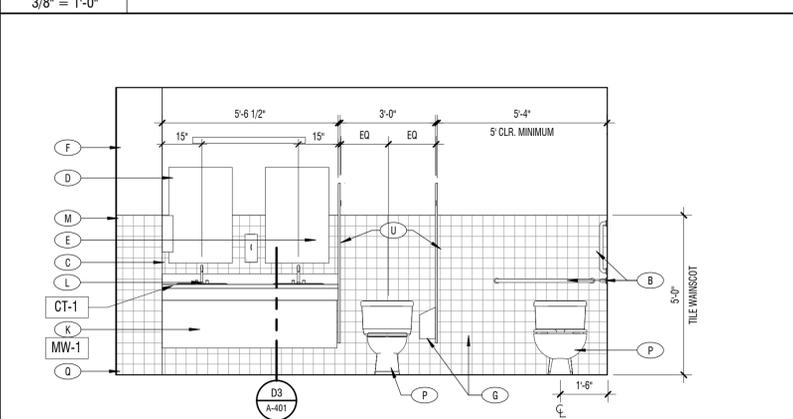
**B3 RESTROOM ELEVATION**  
 3/8" = 1'-0"



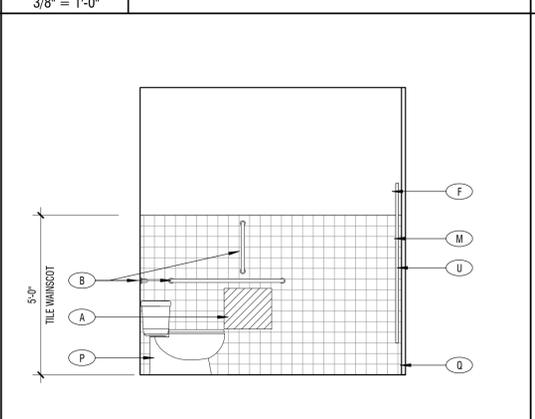
**B4 RESTROOM ELEVATION**  
 3/8" = 1'-0"



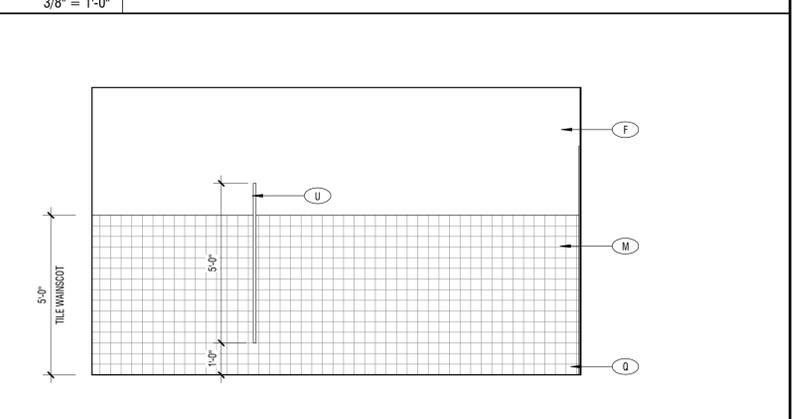
**A1 RESTROOM ELEVATION**  
 3/8" = 1'-0"



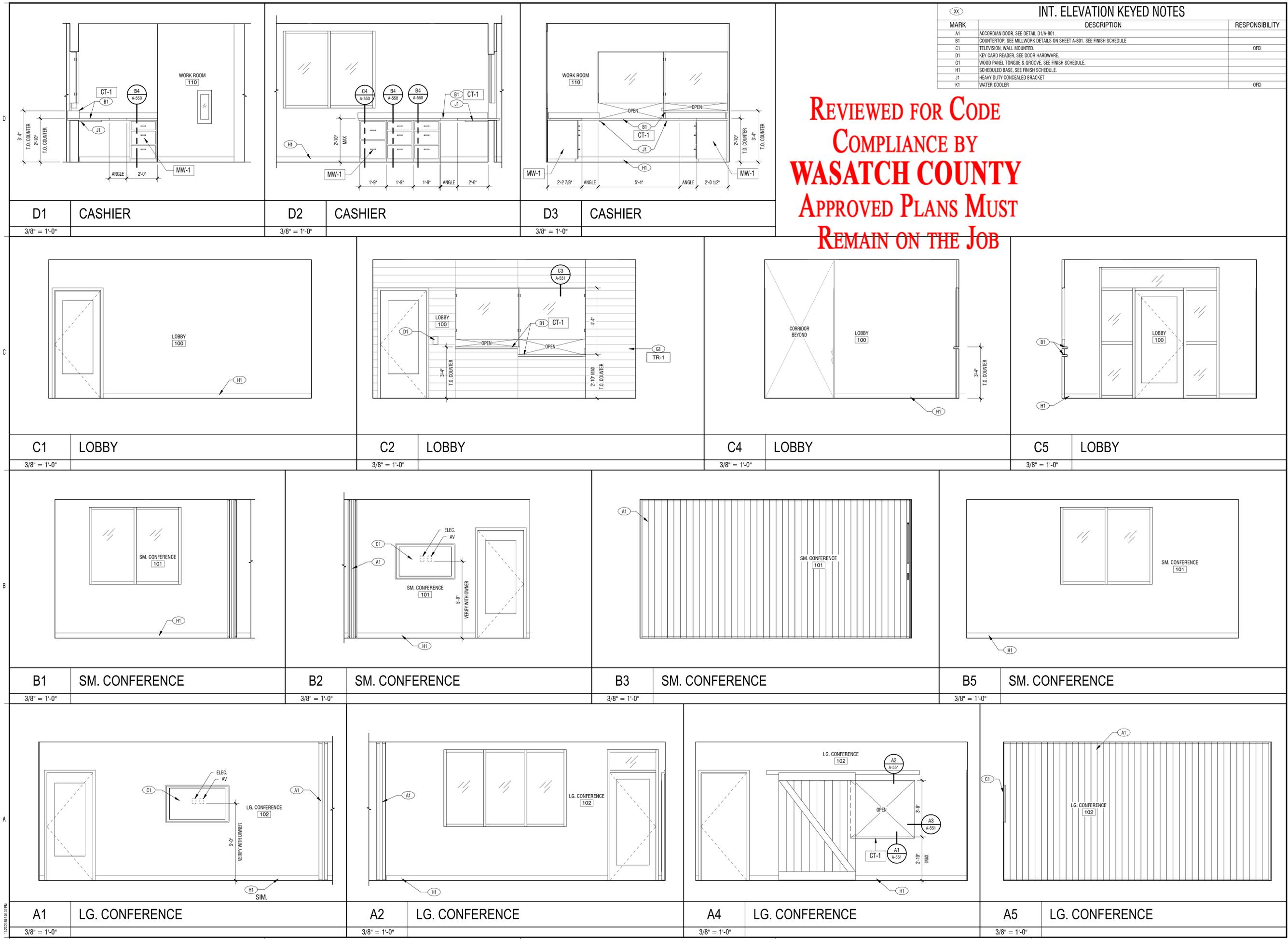
**A2 RESTROOM ELEVATION**  
 3/8" = 1'-0"



**A3 RESTROOM ELEVATION**  
 3/8" = 1'-0"



**A4 RESTROOM ELEVATION**  
 3/8" = 1'-0"



INT. ELEVATION KEYED NOTES		
MARK	DESCRIPTION	RESPONSIBILITY
A1	ACCORDIAN DOOR, SEE DETAIL D1/A-801.	
B1	COUNTERTOP, SEE MILLWORK DETAILS ON SHEET A-801. SEE FINISH SCHEDULE.	
C1	TELEVISION, WALL MOUNTED.	OFCI
D1	KEY CARD READER, SEE DOOR HARDWARE.	
G1	WOOD PANEL TONGUE & GROOVE, SEE FINISH SCHEDULE.	
H1	SCHEDULED BASE, SEE FINISH SCHEDULE.	
J1	HEAVY DUTY CONCEALED BRACKET	
K1	WATER COOLER	OFCI

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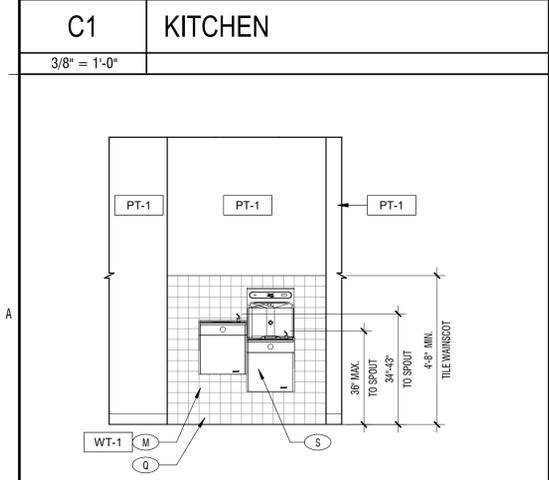
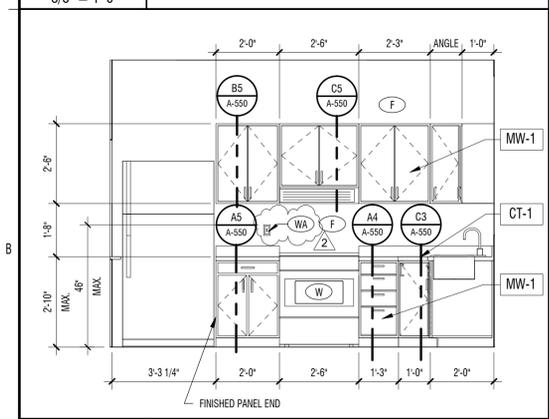
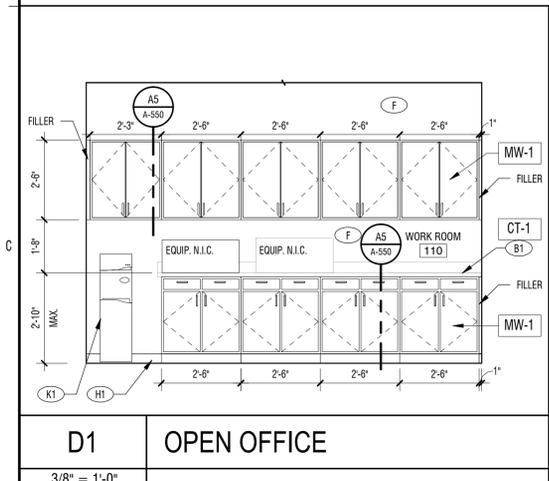
MARK	DATE	DESCRIPTION

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 ISSUED: 07-17-18

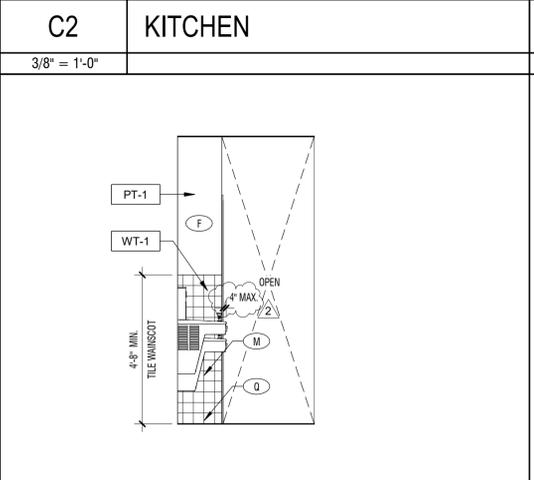
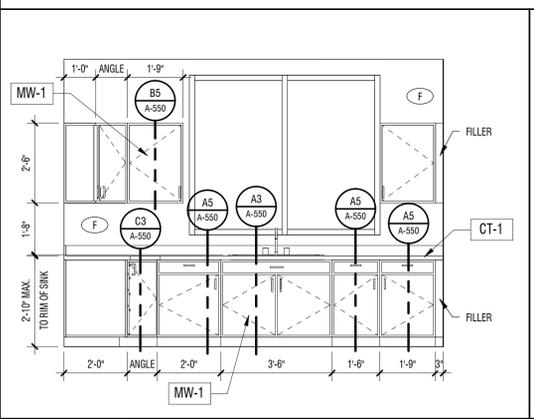


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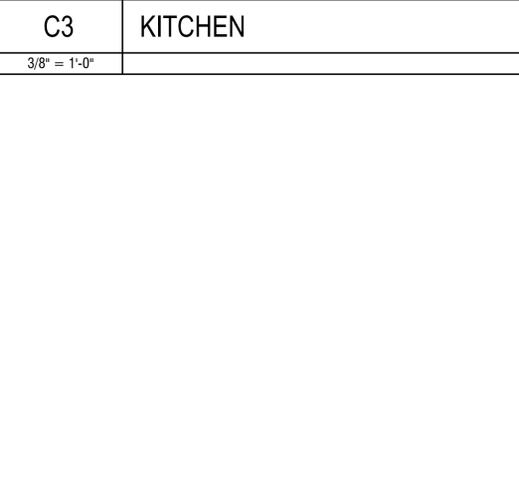
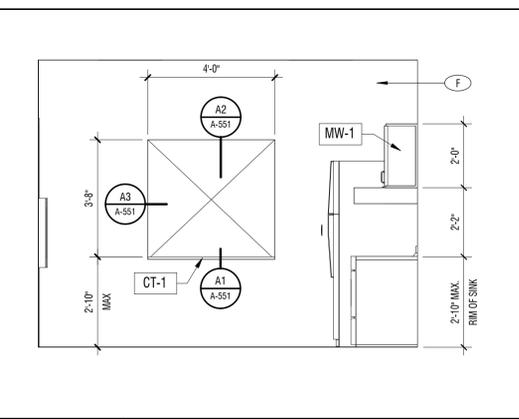
INTERIOR ELEVATION KEYED NOTES		
MARK	DESCRIPTION	RESPONSIBILITY
A	TOILET TISSUE DISPENSER	OFCI
B	GRAB BAR	
C	PAPER TOWEL DISPENSER	OFCI
D	MIRROR, B-1658 2436 24X36	
E	SOAP DISPENSER	OFCI
F	PAINTED GYP., SEE FINISH SCHEDULED	
G	FEMININE NAPKIN DISPOSAL	OFCI
H	MOP & BROOM HOLDER, B-239X34	
K	DRAIN PIPE PROTECTION	
L	SINK, SEE PLUMBING	
M	TILE, SEE FINISH SCHEDULE	
N	MOP SINK, SEE PLUMBING DRAWINGS	
P	TOILET FLUSH CONTROLS ON OPEN SIDE, SEE PLUMBING	
Q	COVERED TILE BASE, SEE FINISH SCHEDULE	
R	FIBER REINFORCED PANEL AND TRIMS, WHITE	
S	DRINKING FOUNTAIN, SEE PLUMBING DRAWINGS.	
T	URINAL, SEE PLUMBING	
U	TOILET PARTITION, PROVIDE HOOK B-233	
V	URINAL PARTITION	
W	ELECTRIC RANGE N.I.C. (GE JS64SSLSS) WITH HOOD SEE MECHANICAL PLANS RH-1	OFCI
WA	ADA SWITCH FOR ELECTRIC HOOD	OFCI
X	FORCED AIR UNIT, SEE MECHANICAL	
Y	WATER HEATER	
Z	PANELBOARD, SEE ELECTRICAL	



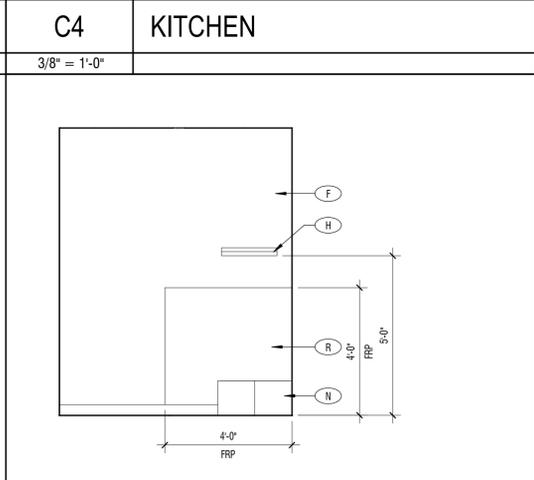
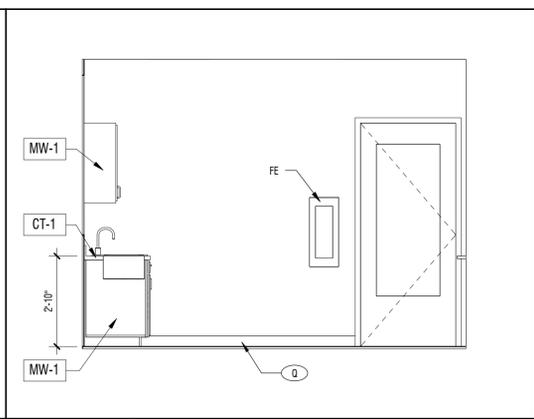
**A1 DRINKING FOUNTAIN**  
3/8" = 1'-0"



**A2 DRINKING FOUNTAIN ALCOVE**  
3/8" = 1'-0"



**A4 MECH. / ELEC.**  
3/8" = 1'-0"



**A5 MECH. / ELEC.**  
3/8" = 1'-0"

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SALT LAKE CITY UT 84103  
255 SOUTH 300 WEST  
795 NORTH 400 WEST

**JSSD ADMINISTRATION BUILDING**  
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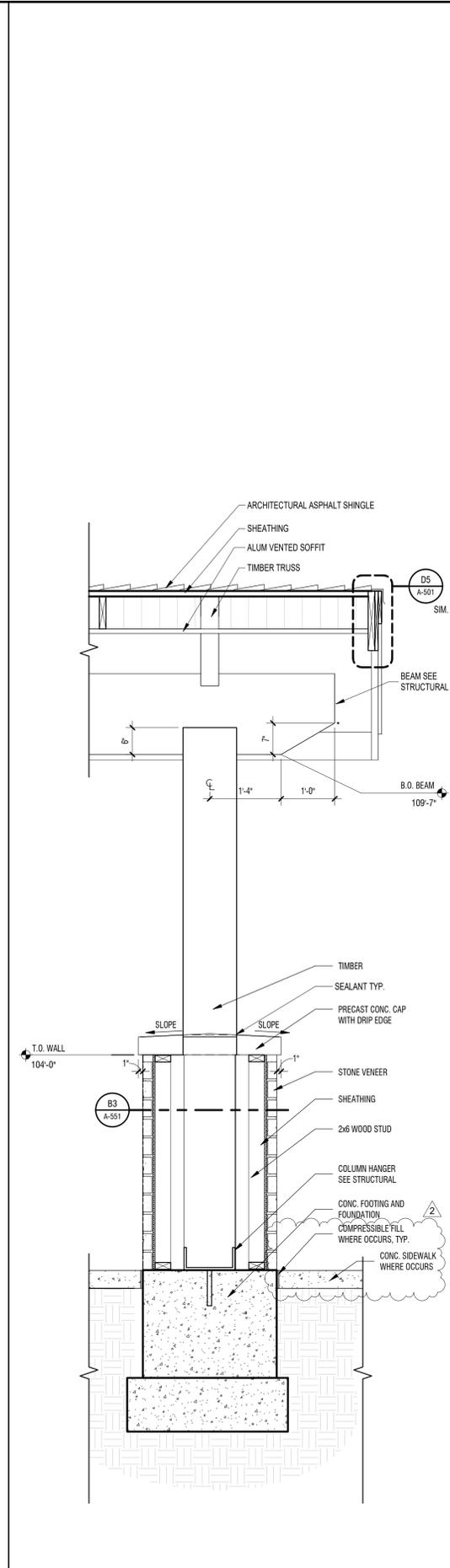
INTERIOR ELEVATIONS



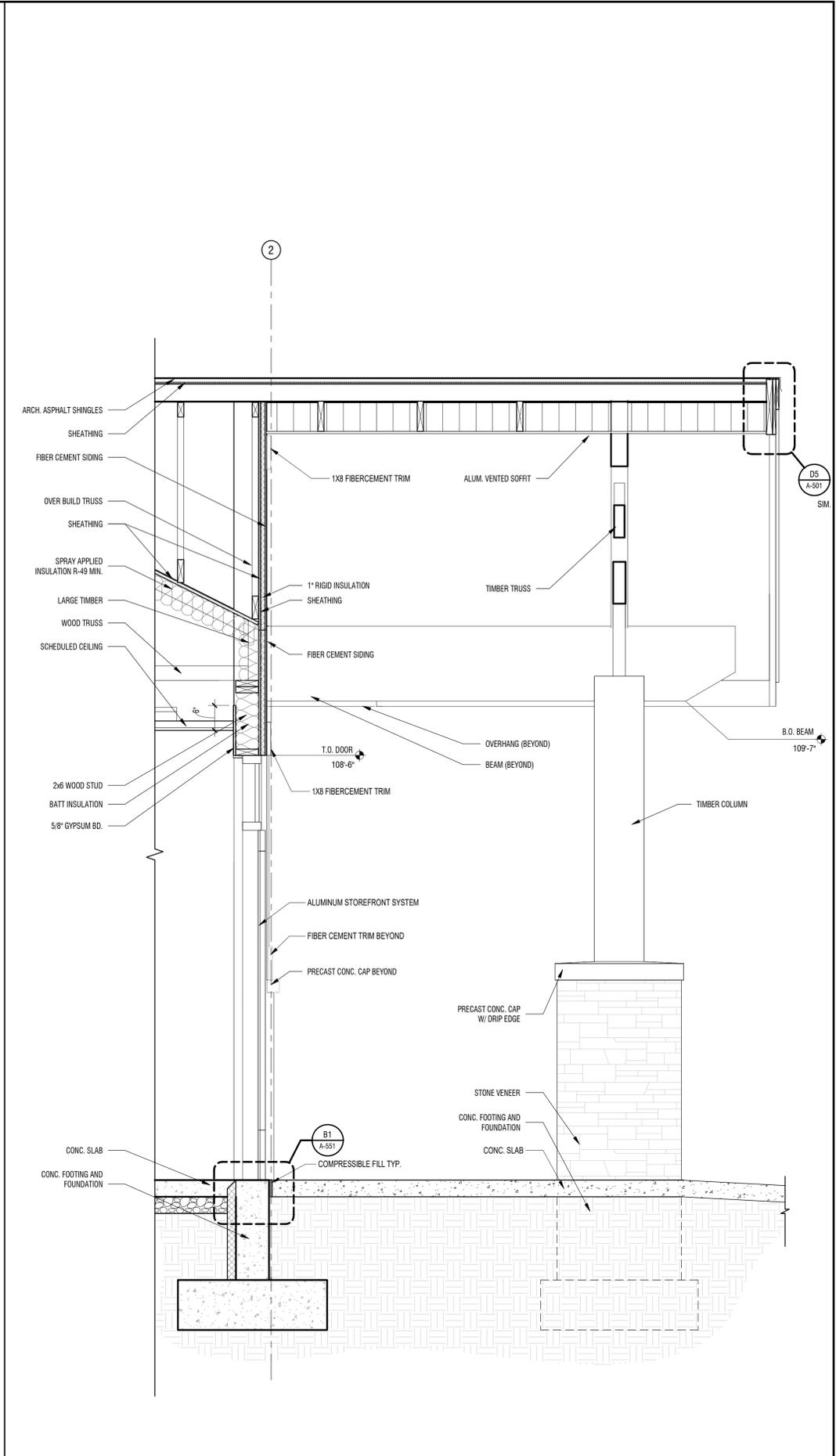
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REMAIN ON THE JOB

D  
C  
B  
A

11/20/2018 10:30 AM



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



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

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CHECKED BY: SH  
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WALL SECTIONS

A-502

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**REVIEWED FOR CODE  
COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB**

**INT. ELEVATION KEYED NOTES**

MARK	DESCRIPTION	RESPONSIBILITY
A1	ACCORDIAN DOOR, SEE DETAIL D1/A-801.	
B1	COUNTERTOP, SEE MILLWORK DETAILS ON SHEET A-801. SEE FINISH SCHEDULE	
C1	TELEVISION, WALL MOUNTED.	DFCI
D1	KEY CARD READER, SEE DOOR HARDWARE.	
G1	WOOD PANEL TONGUE & GROOVE, SEE FINISH SCHEDULE.	
H1	SCHEDULED BASE, SEE FINISH SCHEDULE.	
J1	HEAVY DUTY CONCEALED BRACKET	
K1	WATER COOLER	DFCI

**design west | architects**  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

**JSSD ADMINISTRATION BUILDING**  
5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032  
JORDANELLE SPECIAL SERVICE DISTRICT

MARK: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT #: 818120  
DRAWN BY: DC  
CHECKED BY: SH  
ISSUED: 07-17-18



MILLWORK DETAILS

A-550

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<p><b>C3</b>    <b>BASE CABINET W/ DRAWER</b></p> <p>1" = 1'-0"</p>	<p><b>C4</b>    <b>TWO DRAWER BASE</b></p> <p>1" = 1'-0"</p>	<p><b>C5</b>    <b>UPPER CABINET</b></p> <p>1" = 1'-0"</p>
<p><b>B3</b>    <b>FOUR DRAWER LRG BASE</b></p> <p>1" = 1'-0"</p>	<p><b>B4</b>    <b>THREE DRAWER BASE</b></p> <p>1" = 1'-0"</p>	<p><b>B5</b>    <b>UPPER CABINET</b></p> <p>1" = 1'-0"</p>
<p><b>A3</b>    <b>BASE CABINET W/ SINK</b></p> <p>1" = 1'-0"</p>	<p><b>A4</b>    <b>FOUR DRAWER BASE</b></p> <p>1" = 1'-0"</p>	<p><b>A5</b>    <b>BASE CABINET W/ DRAWER</b></p> <p>1" = 1'-0"</p>

<p><b>A1</b>    <b>METER STORAGE ELEVATION</b></p> <p>3/4" = 1'-0"</p>	<p><b>A2</b>    <b>METER STORAGE SECTION</b></p> <p>3/4" = 1'-0"</p>

1

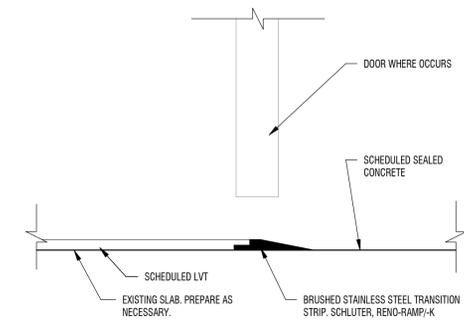
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3

4

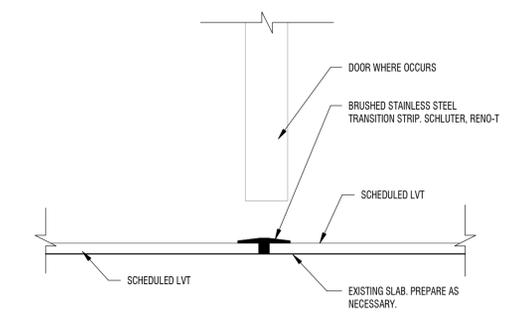
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WASATCH COUNTY  
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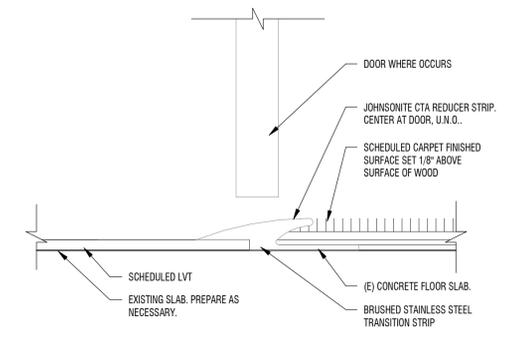
**D4** LVT TO CONC. TRANSITION

3" = 1'-0"



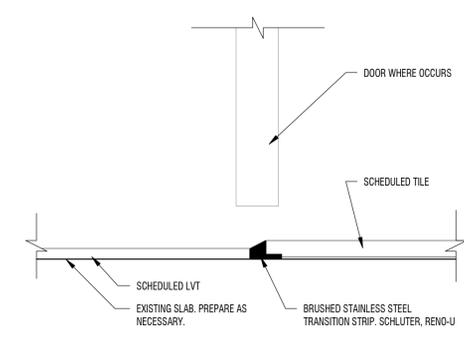
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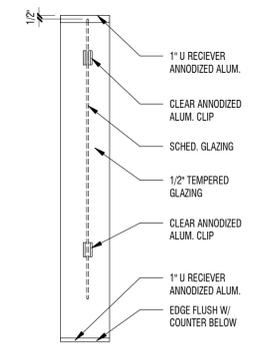
**B4** LVT TO CARPET TRANSITION

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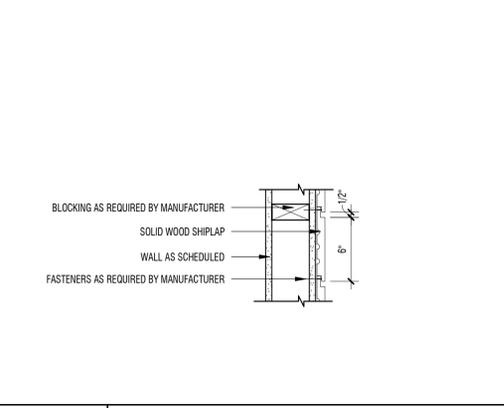
**A4** LVT TO TILE TRANSITION

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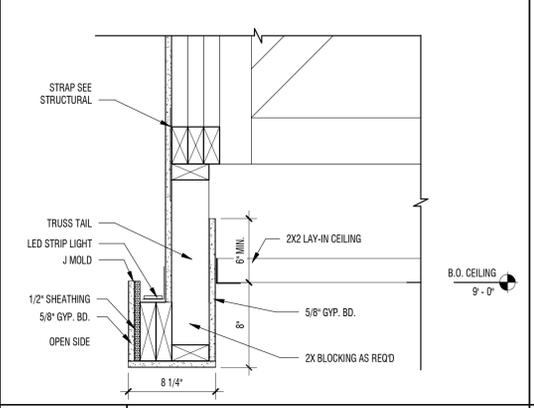
**A5** COUNTER WINDOW DETAIL

1" = 1'-0"



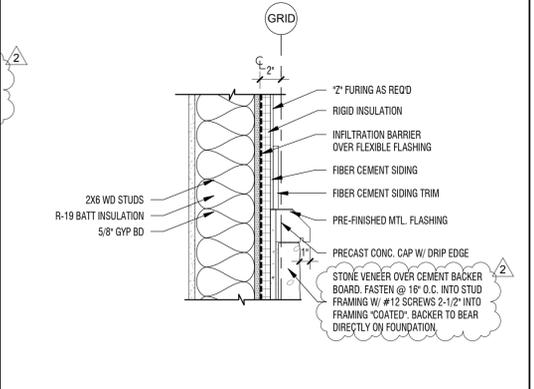
**C3** SHIPLAP @ LOBBY

1 1/2" = 1'-0"



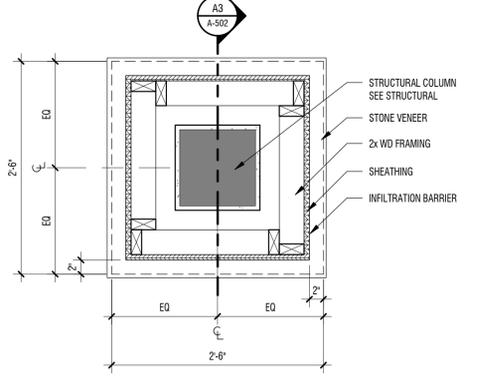
**C2** DETAIL

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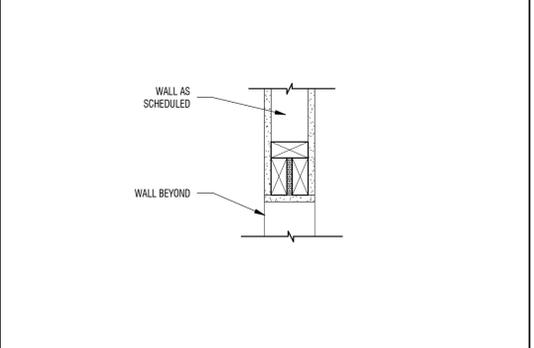
**B2** DETAIL

1 1/2" = 1'-0"



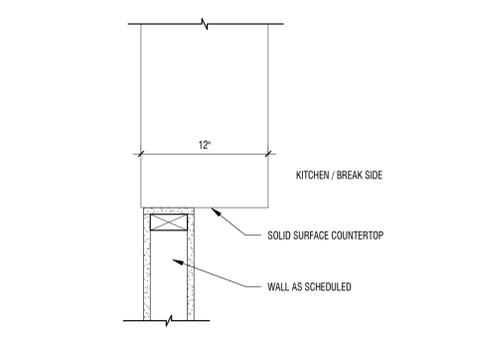
**B3** COLUMN CALLOUT

1" = 1'-0"



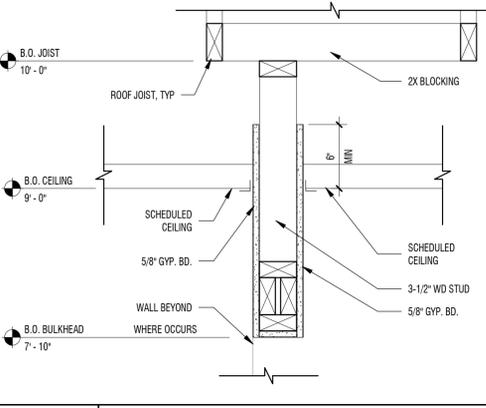
**A2** OPENING DETAIL

1 1/2" = 1'-0"



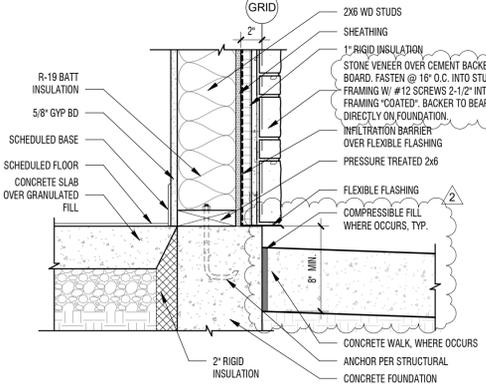
**A3** OPENING DETAIL

1 1/2" = 1'-0"



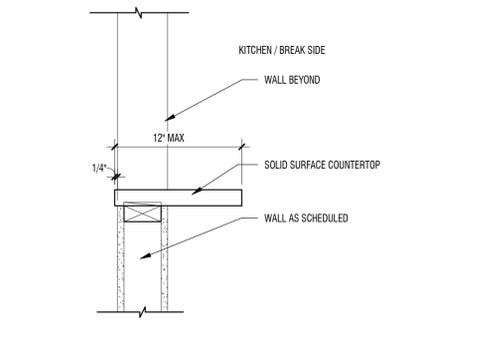
**C1** DETAIL

1 1/2" = 1'-0"



**B1** DETAIL

1 1/2" = 1'-0"



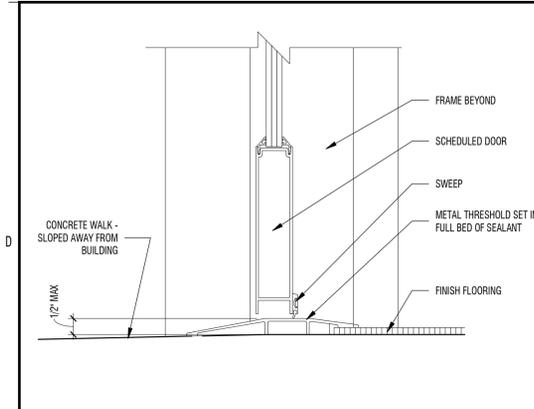
**A1** OPENING DETAIL

1 1/2" = 1'-0"

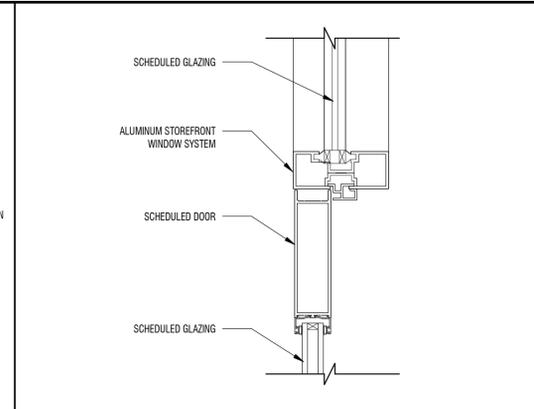
MARK	DATE	DESCRIPTION
2	10/28/18	CITY COMMENTS

PROJECT #: 818120  
DRAWN BY: HARMISON  
CHECKED BY: DC  
ISSUED: 07-17-18

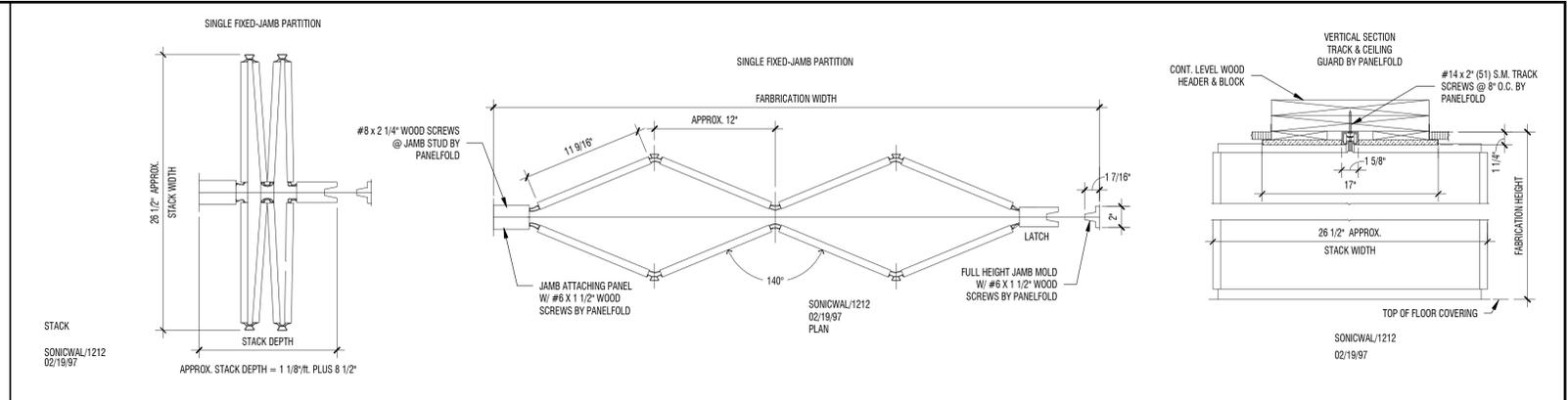




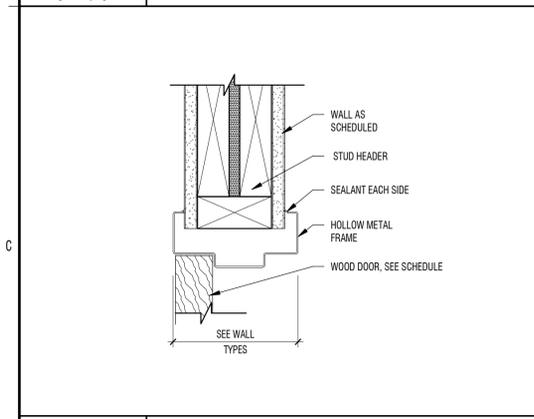
**D1 THRESHOLD**  
3" = 1'-0"



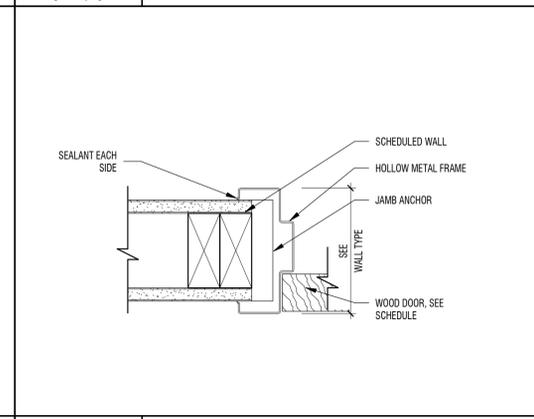
**D2 DOOR/WINDOW HEAD & JAMB**  
3" = 1'-0"



**D3 PANELFOLD ACCORDIAN DOOR**  
1 1/2" = 1'-0"



**C1 INT. DOOR HEAD**  
3" = 1'-0"



**C2 INT. DOOR JAMB**  
3" = 1'-0"

DOOR SCHEDULE												
WT	LEAF SIZE		DOOR TYPE (2)	THICKNES S (3)	CONST. FINISH (4)	GLASS (5)	RATING (6)	FRAME TYPE (7)	DETAILS (8)			HARDWARE (9)
	W	H							SILL	HEAD DETAIL	JAMB DETAIL	
100	3'-2"	7'-0"	AL01	1 3/4"	ALUM	-	-	AL1	-	-	-	HW 4
101	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 3
101B			AC1		MANF.	-	-	MANF.	D3/A-601	D3/A-601	-	HW 9
101C	5'-0"	8'-0"	BARN DOOR	1 3/4"	SCT WOOD	-	-	-	-	-	-	HW 8
102	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 3
102A	3'-0"	7'-0"	WD01	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 6
102B	3'-0"	7'-0"	AL01	1 3/4"	ALUM	-	-	AL1	-	-	-	HW 5
103	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 6
104	3'-0"	7'-0"	WD01	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 6
105	3'-0"	7'-0"	WD01	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 2
106	3'-0"	7'-0"	WD01	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 2
107	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 7
109	3'-0"	7'-0"	AL01	1 3/4"	ALUM	-	-	AL1	-	-	-	HW 5
111	3'-0"	7'-0"	WD01	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 10
111A	3'-0"	7'-0"	WD01	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 10
112	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 1
113	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 1
114	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 1
115	3'-0"	7'-0"	WD02	1 3/4"	SCT WOOD	-	-	HM A	A1/A-601	A2/A-601	-	HW 1

**DOOR AND WINDOW GENERAL NOTES**

- PROVIDE SEALANT AT JOINTS AT DISSIMILAR MATERIAL CONNECTIONS. ISOLATE DISSIMILAR MATERIALS.
- ALL DIMENSIONS FOR DOOR AND WINDOW OPENINGS TO BE FIELD VERIFIED PRIOR TO MANUFACTURING AND INSTALLATION.
- ALL WINDOWS AND TRANSOMS THAT OCCUR IN RATED CORRIDOR WALL TO BE RATED 45 MIN.
- FOR GLAZING IDENTIFICATION SEE SHEET A-602
- ALL DOOR CLOSERS TO HAVE DOOR CLOSING SPEEDS ADJUSTED TO BE ADA DOOR CLOSING SPEEDS.
- ALL DOORS ON THE ACCESSIBLE ROUTE WILL BE TESTED FOR A MAX 5 LB. OPENING FORCE.
- ALL LIMITED ACCESS CARD READER SYSTEMS TO BE IN COMPLIANCE WITH CODE REQUIREMENTS FOR EGRESS.
- ALL DOORS AND WINDOWS MUST HAVE NFRC LABEL OR CERTIFICATES OF NFRC APPROVAL.

**REFER ABOVE FOR DOOR TYPES**

3. THICKNESS: SEE SCHEDULE

4. CONSTRUCTION/FINISH:

- SCT = SOLID CORE, TRANSPARENT FINISH
- HM = HOLLOW METAL, PAINTED
- HMP = HOLLOW METAL, INSULATED, PAINTED
- AL = ALUMINUM SEE SHEET A-602
- GL = GLASS

5. GLAZING: (DOOR AND WINDOW)

- SG = SAFETY GLASS (TEMPERED OR LAMINATED)
- SGI = SAFETY GLASS INSULATED, LOW E
- CG = CLEAR FLOAT GLASS
- CGI = CLEAR FLOAT GLASS INSULATED - LOW E
- SP = SPANDREL PANEL

6. RATING: 20, 45, 60 AND ETC. INDICATES FIRE RATING. NOTE: ALL FIRE RATED DOORS SHALL BE AUTOMATIC CLOSING OR SELF-CLOSING AS PROVIDED IN THE IBC, IN ADDITION SEE THE IBC FOR SPECIAL PROVISIONS RELATING TO DOORS.

7. FRAME TYPE: (NUMBER(S) INDICATE(S) FRAME TYPE(S) SHOWN)

8. DETAILS: (REFER TO SHEETS INDICATED FOR DOOR AND WINDOW DETAILS)

9. HARDWARE: (GROUP #, SEE SPECIFICATIONS FOR HARDWARE GROUPS)

A: MARINE GRADE CLEAR COAT FINISH ON TOILET CUBICLE DOORS

10. KEYNOTES:

**REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB**

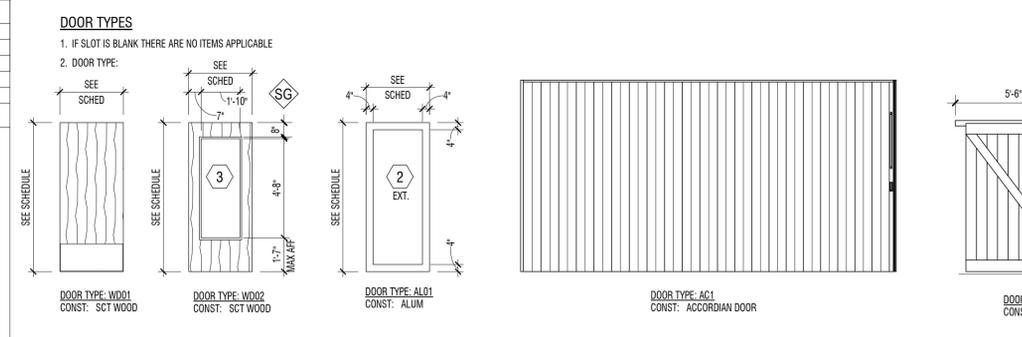
**GLASS TYPE SCHEDULE**

- SOLAR BAN 60 GLASS, 1" INSUL.
- SOLAR BAN 60 GLASS, 1" TEMPERED INSUL.
- 1/4" TEMPERED
- 1/4" GLAZING
- 1/2" TEMPERED

**GENERAL NOTES**

- ALL GLAZING PANEL MEETING ALL OF THE FOLLOWING CRITERIA TO BE SAFETY GLAZING COMPLYING WITH ALL APPLICABLE BUILDING CODES:
  - PANEL IS GREATER THAN 9 S.F.
  - PANEL IS WITHIN 18 INCHES OF FINISH FLOOR
  - PANEL IS GREATER THAN 60 INCHES ABOVE FINISH FLOOR
  - PANEL IS NEAR A WALKING PATH OR AREA
- ALL SAFETY GLAZING TO HAVE PERMANENT LABELS/IDENTIFICATION LOCATED ON GLAZING.
- WINDOWS TO HAVE DARK BRONZE ANODIZED ALUM. STOREFRONT FRAMES (SEE SPECS.)
- ALL GLAZING IN OPERABLE PANELS OR WITHIN 24 INCHES OF DOOR JAMB TO BE TEMPERED GLAZING.

APPLIED PRIVACY FILM



**HARDWARE SCHEDULE**

HW 1	HW 2	HW 3	HW 4	HW 5	HW 6
<ul style="list-style-type: none"> <li>OFFICE FUNCTION SET (LEVER)</li> <li>1-1/2" PAIR 4-1/2" x 4-1/2" HINGES</li> <li>WALL STOP</li> </ul>	<ul style="list-style-type: none"> <li>PUSH/PULL</li> <li>1-1/2" PAIR 4-1/2" x 4-1/2" HINGES</li> <li>WALL STOP / FLOOR AS REQ'D</li> <li>CLOSER</li> <li>KICKPLATE (PUSH SIDE)</li> <li>SIGN "MEN"/"WOMEN" ADA TYP.</li> </ul>	<ul style="list-style-type: none"> <li>PASSAGE SET (LEVER)</li> <li>1-1/2" PAIR 4-1/2" x 4-1/2" HINGES</li> <li>WALL STOP</li> <li>CLOSER W/ HOLD OPEN</li> <li>SIGN "CONFERENCE ROOM"</li> </ul>	<ul style="list-style-type: none"> <li>ENTRANCE FUNCTION SET (LEVER) CORE LOCK W/ THUMB</li> <li>CARD READER W/ ELECTRIC STRIKE</li> <li>CLOSER</li> <li>THRESHOLD</li> <li>SIGN "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS"</li> <li>ALL OTHER HARDWARE BY MANUFACTURER</li> </ul>	<ul style="list-style-type: none"> <li>ENTRANCE FUNCTION SET (LEVER)</li> <li>CARD READER W/ ELECTRIC STRIKE</li> <li>CLOSER</li> <li>THRESHOLD</li> <li>SIGN "EMPLOYEES ONLY"</li> <li>ALL OTHER HARDWARE BY MANUFACTURER</li> </ul>	<ul style="list-style-type: none"> <li>PASSAGE SET (LEVER)</li> <li>1-1/2" PAIR 4-1/2" x 4-1/2" HINGES</li> <li>WALL STOP</li> <li>KICK PLATE</li> <li>SIGN "STORAGE"/"MECH. ROOM"/"BREAK ROOM, WARMING KITCHEN ONLY"</li> </ul>
<ul style="list-style-type: none"> <li>OFFICE FUNCTION SET (LEVER)</li> <li>CARD READER W/ ELECTRIC STRIKE</li> <li>1-1/2" PAIR 4-1/2" x 4-1/2" HINGES NRP</li> <li>WALL STOP</li> <li>CLOSER</li> <li>KICK PLATE BOTH SIDES</li> <li>SIGN "EMPLOYEES ONLY"</li> </ul>	<ul style="list-style-type: none"> <li>BARN DOOR HARDWARE SET</li> <li>STAINLESS STEEL</li> <li>PROVIDE 1,000 ALLOWANCE @ BID. PROVIDE OPTIONS TO OWNER FOR FINAL SELECTION AFTER NTP</li> </ul>	<ul style="list-style-type: none"> <li>ALL HARDWARE PROVIDED BY DOOR MANUFACTURER. PULLS, LATCHES, TYP.</li> </ul>	<ul style="list-style-type: none"> <li>CLASSROOM SET (LEVER)</li> <li>1-1/2" PAIR 4-1/2" x 4-1/2" HINGES</li> <li>WALL STOP</li> </ul>	<p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>ALL DOORS TO HAVE DOOR SILENCERS</li> </ul>	

**design west | architects**  
255 SOUTH 300 WEST  
795 NORTH 400 WEST  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

**JSSD ADMINISTRATION BUILDING**  
5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032  
JORDANELLE SPECIAL SERVICE DISTRICT

DATE: 10/26/18  
CITY COMMENTS: 11/27/18  
MARK: 2, 3

PROJECT #: 818120  
DRAWN BY: DC  
CHECKED BY: SO  
ISSUED: 07-17-18

**DOOR SCHEDULE**  
A-601

11/27/2018 10:30 AM

MARK	DATE	DESCRIPTION

PROJECT #: 818120  
 DRAWN BY: DC  
 CHECKED BY: SH  
 ISSUED: 07-17-18



REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB

D1	INT. DOOR JAMB	D2	COUNTER JOINT DETAIL	D3	COUNTER HEAD DETAIL	D4	WINDOW SILL	D5	HEAD/JAMB SIM. @ FIBER CMNT
3" = 1'-0"		3" = 1'-0"		3" = 1'-0"		3" = 1'-0"		3" = 1'-0"	
C1	INT. DOOR JAMB	C2	EXT. DOOR JAMB	C3	COUNTER JAMB DETAIL	C4	TYP. TRIM DETAIL	C5	WINDOW JAMB @ STONE
3" = 1'-0"		3" = 1'-0"		3" = 1'-0"		1/2" = 1'-0"		3" = 1'-0"	
<p><b>GLASS TYPE SCHEDULE</b></p> <p>① SOLAR BAN 60 GLASS, 1" INSUL.                  ② SOLAR BAN 60 GLASS, 1" TEMPERED INSUL.                  ③ 1/4" TEMPERED                  ④ 1/4" GLAZING                  ⑤ 1/2" TEMPERED</p> <p><b>GENERAL NOTES</b></p> <p>1. ALL GLAZING PANEL MEETING ALL OF THE FOLLOWING CRITERIA TO BE SAFETY GLAZING COMPLYING WITH ALL APPLICABLE BUILDING CODES:                  a) PANEL IS GREATER THAN 9 S.F.                  b) PANEL IS WITHIN 18 INCHES OF FINISH FLOOR                  c) PANEL IS GREATER THAN 60 INCHES ABOVE FINISH FLOOR                  d) PANEL IS NEAR A WALKING PATH OR AREA</p> <p>2. ALL SAFETY GLAZING TO HAVE PERMANENT LABELS/IDENTIFICATION LOCATED ON GLAZING.</p> <p>3. WINDOWS TO HAVE DARK BRONZE ANODIZED ALUM. STOREFRONT FRAMES (SEE SPECS.)</p> <p>4. ALL GLAZING IN OPERABLE PANELS OR WITHIN 24 INCHES OF DOOR JAMB TO BE TEMPERED GLAZING.</p> <p> APPLIED PRIVACY FILM</p>									
B2	EXT. DOOR JAMB	B3	SILL DETAIL @ LOBBY	B4	SILL DETAIL @ LOBBY	B5	WINDOW SILL		
3" = 1'-0"		1 1/2" = 1'-0"		1 1/2" = 1'-0"		3" = 1'-0"			
A1	WINDOW SCHEDULE								
1/4" = 1'-0"									
1	2	3	4	5					

**A** ALUMINUM

**B** ALUMINUM

**C** ALUMINUM

**D** ALUMINUM

**E** HOLLOW METAL

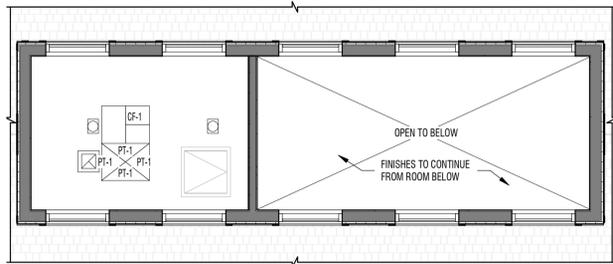
**F** HOLLOW METAL

**G** ALUMINUM W/ SCREEN

**H** MATERIAL?

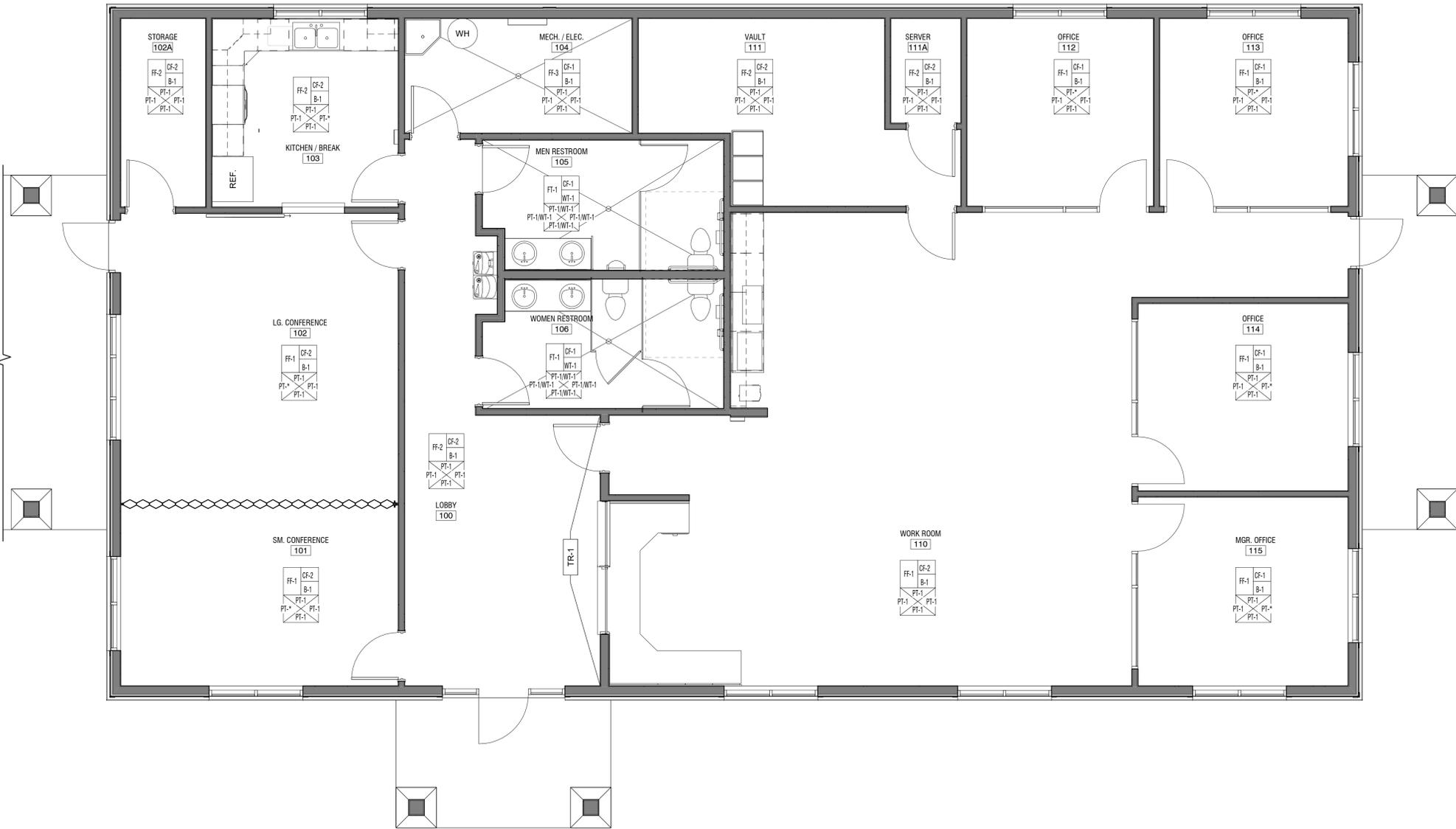
**J** ALUMINUM

**REVIEWED FOR CODE  
COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB**



**D1 LIGHT WELL FINISH PLAN**

1/4" = 1'-0"



**A1 FINISH PLAN**

1/4" = 1'-0"

MARK	DATE	DESCRIPTION

PROJECT #: 818120  
DRAWN BY: CW  
CHECKED BY: SO  
ISSUED: 07-17-18



**FINISH SCHEDULE**

ROOM NUMBER	ROOM NAME	FLOOR FINISH	CEILING FINISH	BASE FINISH	E_Wall	N_Wall	S_Wall	W_Wall	Misc
100	LOBBY	FF-2	CF-2	B-1	PT-1	PT-1	PT-1	PT-1	
101	SM. CONFERENCE	FF-1	CF-2	B-1	PT-1	PT-1	PT-1	PT-*	
102	LG. CONFERENCE	FF-1	CF-2	B-1	PT-1	PT-1	PT-1	PT-*	
102A	STORAGE	FF-2	CF-2	B-1	PT-1	PT-1	PT-1	PT-1	
103	KITCHEN / BREAK	FF-2	CF-2	B-1	PT-*	PT-1	PT-1	PT-1	
104	MECH. / ELEC.	FF-3	CF-1	B-1	PT-1	PT-1	PT-1	PT-1	
105	MEN RESTROOM	FT-1	CF-1	WT-1	PT-1/WT-1	PT-1/WT-1	PT-1/WT-1	PT-1/WT-1	
106	WOMEN RESTROOM	FT-1	CF-1	WT-1	PT-1/WT-1	PT-1/WT-1	PT-1/WT-1	PT-1/WT-1	
110	WORK ROOM	FF-1	CF-2	B-1	PT-1	PT-1	PT-1	PT-1	
111	VAULT	FF-2	CF-2	B-1	PT-1	PT-1	PT-1	PT-1	
111A	SERVER	FF-2	CF-2	B-1	PT-1	PT-1	PT-1	PT-1	
112	OFFICE	FF-1	CF-1	B-1	PT-1	PT-*	PT-1	PT-1	
113	OFFICE	FF-1	CF-1	B-1	PT-1	PT-*	PT-1	PT-1	
114	OFFICE	FF-1	CF-1	B-1	PT-*	PT-1	PT-1	PT-1	
115	MGR. OFFICE	FF-1	CF-1	B-1	PT-*	PT-1	PT-1	PT-1	
124	ATTIC SPACE		CF-1		PT-1	PT-1	PT-1	PT-1	

NOTE: SEE ALSO INTERIOR ELEVATIONS FOR ADDITIONAL FINISHES

**REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB**

**BASE (B-X)**

MARK	TYPE	FINISH	COLOR	SIZE	NOTES	INSTALLATION
B-1	ROPPE	PINNACLE, COVED	193 BLACK BROWN	4" TH STRAIGHT		AS NOTED ON PLANS

**CEILING FINISH (CF-X)**

MARK	ITEM	FINISH	COLOR	SIZE	NOTES	INSTALLATION
CF-1	PAINTED GYP BD	SHERWIN WILLIAMS, LATEX/SATIN	SW6252 ICE CUBE	2-3 COATS INCLUDING PRIMER		
CF-2	ACOUSTIC CEILING TILE	ARMSTRONG, ULTIMA		24" X 24" TEGULAR EDGE		

**COUNTERTOP (CT-X)**

MARK	MANUFACTURER	EDGE PROFILE	COLOR	SIZE	NOTES	INSTALLATION
CT-1	CAESARSTONE	1-1/4" SQ. ROUND SQUARE	RUGGED CONCRETE 4033	65" X 130" SLAB	CERTIFIED INSTALLER REQUIRED	WATERFALL PANELS AT ENDS OF ISLAND

**FLOOR COVERING (FF-X)**

MARK	TYPE	FINISH	COLOR	SIZE	NOTES	INSTALLATION
FF-1	CARPET TILE, SHAW CONTRACT	OFF THE GRID COLLECTION, BEYOND 18X36 42JD2	15505 VAST	18" X 36"	INSTALLATION: RANDOM	GLUE DOWN OVER CONCRETE SUBFLOOR, CONTRACTOR TO VERIFY MANUFACTURE INSTALLATION REQUIREMNETS.
FF-2	L.V.T., SHAW CONTRACT	METALIZE LVT 0924V	IRON 24500	9" X 48", 0.197" THICKNESS	PATTERN LAY: BRICK	GLUE DOWN OVER CONCRETE SUBFLOOR, CONTRACTOR TO VERIFY MANUFACTURE INSTALLATION REQUIREMNETS.
FF-3	SEALED CONCRETE		NATURAL			CERTIFIED INSTALLER REQUIRED

**FLOOR TRASITIONS (S-X, SCHLUTER)**

MARK	TYPE	FINISH	COLOR	SIZE	NOTES	INSTALLATION
S-1	JOHNSONITE, CTA REDUCER STRIP	CLEAR	STAINLESS STEEL		TRANSITION L.V.T. TO CARPET, MINIMAL REVEAL FOR SLOPED TRANSITIONS, SEE A-551/B4	GLUE DOWN OVER CONCRETE SUBFLOOR, CONTRACTOR TO VERIFY MANUFACTURE INSTALLATION REQUIREMNETS.
S-2	SCHLUTER, RENO-U	CLEAR	STAINLESS STEEL		TRANSITION L.V.T. TO TILE, EDGE PROTECTION PROFILE FOR ABUTTING TILE TO LOWER TRANSITIONS, SEE A-551/A4	GLUE DOWN OVER CONCRETE SUBFLOOR, CONTRACTOR TO VERIFY MANUFACTURE INSTALLATION REQUIREMNETS.
S-3	SCHLUTER, RENO-RAMP-K	CLEAR	STAINLESS STEEL		TRANSITION L.V.T. TO CONC., PROFILE FOR SLOPED TRANSITIONS, SEE A-551/D4	GLUE DOWN OVER CONCRETE SUBFLOOR, CONTRACTOR TO VERIFY MANUFACTURE INSTALLATION REQUIREMNETS.
S-4	SCHLUTER, RENO-T	CLEAR	STAINLESS STEEL		TRANSITION L.V.T. TO CONC., PROFILE FOR SLOPED TRANSITIONS, SEE A-551/C4	GLUE DOWN OVER CONCRETE SUBFLOOR, CONTRACTOR TO VERIFY MANUFACTURE INSTALLATION REQUIREMNETS.

**PAINT & STAIN (PT-X) (ST-X)**

MARK	MANUFACTURER	FINISH	COLOR	SIZE	NOTES	INSTALLATION
PT-1	SHERWIN WILLIAMS	LATEX / SATIN	SW 6252 ICE CUBE			2-3 COATS INCLUDING PRIMER
PT-2	SHERWIN WILLIAMS	LATEX / SATIN	SW 9141 WATERLOO			2-3 COATS INCLUDING PRIMER
PT-3	SHERWIN WILLIAMS	LATEX / SATIN	SW 6622 HEARTY ORANGE			2-3 COATS INCLUDING PRIMER
PT-4	SHERWIN WILLIAMS	LATEX / SATIN	SW 7062 ROCK BOTTOM			2-3 COATS INCLUDING PRIMER
PT-5	SHERWIN WILLIAMS	LATEX / SATIN	SW 7638 JOGGING PATH			2-3 COATS INCLUDING PRIMER
PT-6	MINWAX	STAIN, WATER BASED	AMERICAN WALNUT			2-3 COATS INCLUDING PRIMER

NOTE: TWO PHYSICAL SAMPLES OF ACTUAL MATERIAL AND SPECIFIED FINISH SHALL BE PROVIDED BY CONTRACTOR FOR APPROVAL BY THE ARCHITECT PRIOR TO ORDERING MATERIAL. PT-\* INDICATES USER SELECTED ACCENT COLOR SEE PT-2 THROUGH PT-5.

**TILE - (FT-X)=FLOOR TILE, (WT-X)=WALL TILE**

MARK	MANUFACTURER	FINISH	COLOR	SIZE	NOTES	INSTALLATION
FT-1	TILE - ELEGANZA		ALIVE - DARK	24" X 24"	GROUT: 1/8"	PATTERN LAY: RUNNING BOND, STANDARD INSTALLATION METHODS FOR THINSET ADHESIVES. NOTE: USE A 1/2" X 12 3/4" BULLNOSE ON WAINSCOT
WT-1	DAL-TILE	INVOKE	S-36C9T COPPER HAZE	6" X 24"	GROUT: 1/8" MAPEI FLEXCOLOR, CHOCOLATE 07	PATTERN LAY: HORIZONTAL BRICK LAY, STANDARD INSTALLATION METHODS FOR THINSET ADHESIVES

**MILLWORK (MW-X)**

MARK	TYPE	FINISH	MATERIAL	COLOR	NOTES	INSTALLATION
MW-1	WILSONART	VERIFY	FAWN CYPRESS 8208K-16	VERIFY		

**TRIM (TR-X)**

MARK	TYPE	FINISH	COLOR	SIZE	NOTES	INSTALLATION
TR-1	SHIPLAP	PT-6 STAIN, SEE PAINT & STAIN SCHEDULE		2-3/4" x 3/4" SOLID WOOD PLANKS, 1/8" REVEAL, NOMINAL DIMENSIONS	WALNUT WOOD, ROUGH SAWN. SEE PAINT & STAIN SCHEDULE	SEE DETAIL C3/A-551, INSTALL MATERIAL AS DRAWN IN ELEVATIONS. FINISH EXPOSED ENDS WITH MATCHING MATERIAL IN 1" W TRIM OR CORNER CAP.

NOTE: TWO PHYSICAL SAMPLES OF ACTUAL MATERIAL AND SPECIFIED FINISH SHALL BE PROVIDED BY CONTRACTOR FOR APPROVAL BY THE ARCHITECT PRIOR TO ORDERING MATERIAL.

MARK	DATE	DESCRIPTION
1	9/27/18	ADDENDA 2

PROJECT #: 818120  
DRAWN BY: CW  
CHECKED BY: SO  
ISSUED: 07-17-18



# GENERAL STRUCTURAL NOTES

## GENERAL

- The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- Typical details and sections shall apply where specific details are not shown.
- The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected elements.
- Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
- The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- The structural drawings are not all-inclusive and do not contain all dimensions, elevations, openings, mechanical shafts and penetrations needed to build the structure. The contractor shall coordinate these items with the Architectural, Mechanical and Electrical drawings.
- The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the roof system is completed.
- The contractor shall not cut or core any holes in concrete walls without prior review by the architect/engineer.
- Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
- Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultants' drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
- Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
- Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
- Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

## BASIS OF DESIGN

- Governing Building Code Risk Category: International Building Code 2015 II
- Roof Snow Load:
  - a. Ground Snow Load:  $P_g = 86$  psf
  - b. Snow Importance Factor:  $I_s = 1.0$
  - c. Snow Exposure Coefficient:  $C_e = 1.0$
  - d. Thermal Exposure Coefficient:  $C_t = 1.0$
  - e. Roof Snow Load:  $P_r = 0.7 \cdot C_e \cdot C_t \cdot I_s \cdot P_g = 60$  psf plus Snow Drift
- Roof Live Load: 20 psf
- Seismic Loads:
  - a. Seismic Importance Factor,  $I_e$ : 1.0
  - b. Seismic Design Category: D
  - c. Mapped Spectral Acceleration:  $S_s = 1.300g$
  - d. Soil Site Class:  $S_1 = 0.436g$
  - e. Soil Site Coefficients:  $F_a = 1.0$ ,  $F_v = 1.5$
  - f. 5% Damped Design Spectral Response Acceleration:  $S_{DS} = 2/3 \cdot F_a \cdot S_s = 0.867g$ ,  $S_{D1} = 2/3 \cdot F_v \cdot S_1 = 0.455g$
  - g. Basic Seismic-Force-Resisting System: Wood Shear Wall
  - h. Response Modification Coefficient:  $R = 6.5$
  - i. System Over-strength Factor: 3.0
  - j. Deflection Amplification Factor: 4.0
  - k. Fundamental Building Period:  $T = 0.207$  seconds
  - l. Seismic Response Coefficient:  $C_s = S_{DS} \cdot I_e / R$ ,  $C_s = S_{D1} \cdot I_e / (R \cdot T)$
  - m. Dead Loads of Structure:  $V = C_s \cdot W = 0.133 W$  (Strength Design), Equivalent Lateral Force (Static)
- Wind Loads:
  - a. Wind Velocity (3 Second Gust): 115 mph (Strength), 90 mph (Allowable ( $I_w = 1.0$ ))
  - b. Exposure Type: C
  - c. Internal Pressure Coefficient,  $GC_{pi}$ : +/-0.18
  - d. Topographic Factor,  $K_{zt}$ : 1.0
  - e. Components and Cladding Wind Force Table (psf, Strength Design)

Component Elevation above grade	Effective Wind Area for Component (sq ft.)				
	10 sq ft.	20 sq ft.	50 sq ft.	100 sq ft.	500 sq ft.
15	-38.6	-38.0	-32.6	-30.0	-23.9
20	-41.0	-38.2	-34.6	-31.8	-26.4
25	-43.0	-40.1	-36.3	-33.4	-26.7
30	-44.7	-41.7	-37.7	-34.7	-27.7

## FOUNDATION

- Soils Report by AEGC Applied GeoTech, Dated 07/02/2018, Project No. 1180137
- Soil Bearing Pressure: 2,000 psf, on undisturbed natural gravel.
- Frost Protection: 40 inches minimum to bottom of footing. Contractor shall field verify that the footing elevations and final grades indicated on the plans will provide the minimum frost protection. The contractor shall notify the architect/engineer if there are any locations where the minimum frost protection might not be achieved prior to placing concrete.
- Lateral Soil Pressure Fluid Equivalent Density:
  - a. Active: 40 pcf (retaining walls)
  - b. At Rest: 55 pcf (rigid foundation walls)
  - c. Passive: 300 pcf
- Coefficient of Friction: 0.45

## EARTHWORK

- All footings shall bear on suitable natural material.
- Consult the soils report for further earthwork requirements.

## CONCRETE

- Materials, unless noted otherwise:
  - a. Normal weight aggregates: ASTM C 33
    - i. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1 1/2 in.) or 8% - 22% for smaller top size aggregates (1 in. or 3/4 in.) retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No. 50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur:
      - The percent retained on two adjacent sieves shall not fall below 5%.
      - The percent retained on three adjacent sieves shall not fall below 8%.
      - When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information.
    - A gradation chart or table shall be submitted with mix designs for slabs on grade.
    - Maximum Aggregate Size shall be not be larger than:
      - clear 1/5 the narrowest dimension of the forms
      - 1/3 the depth of the slab
      - 3/4 the minimum spacing between bars
  - Reinforcing Steel: ASTM A615 Grade 60 (Fy = 60 ksi), Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
  - Deformed Bar Anchors (DBA): ASTM A496
  - Headed Stud Anchors (HSA): ASTM A108
  - Anchor Rods: Typical, uno, ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
  - Admixtures:
    - Air-entraining admixtures shall comply with ASTM C 260 (when used).
    - Calcium chloride shall not be added to the concrete mix.
    - Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used).
    - Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used).
    - Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when used).
    - High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used).
    - High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G (when used).
    - Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all admixtures shall be from the same manufacturer
  - Type I/II cement complying with ASTM C-150 shall be used for all concrete. Cement source shall remain the same for the entire job.
  - The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-14.
  - Fly Ash - ASTM C618, Class F - 25% maximum cementitious content.
  - Provide air entraining as recommended by Table 19.3.3.1 of ACI 318-14. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air-entrained.
  - The slump shall meet the requirements of ACI 301.
  - No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
- Compressive strengths of concrete at 28 days shall be as follows:
  - a. Footings & Foundation Walls:
    - Strength: 3,000 psi
    - Classification: F0, S0, W0, C0
  - b. All Site Concrete with Reinforcement:
    - Strength: 5,000 psi
    - Classification: F3, S0, W1, C2
  - c. All Site Concrete without Reinforcement:
    - Strength: 4,500 psi
    - Classification: F3, S0, W1, C2

- Only one grade or type of concrete shall be poured on the site at any given time.
- The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
  - a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
- Reinforcement shall have the following concrete cover:
 

Clear Cover	
i. Cast-in-place Concrete	3"
ii. Formed concrete exposed to earth or weather:	
#6 thru #18 bars	2"
#5 and smaller bars	1-1/2"
iii. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls and their piers, Joists; #11 bars and smaller	3/4"
Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals	1-1/2"
- Detailing:
  - a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" on sheet S-601. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements and shall have a current ICC-ES report or IAPMO Certification. Use "Lenton" Standard Couplers (ICC ER-3967), "Bar-Lock" (ICC ESR-2495) or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
  - b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
  - c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
  - d. Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice length.
  - e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
  - f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb color with a 90-degree standard hook. Horizontal wall reinforcing shall be continuous through construction and control joints.
  - g. See detail 7/S-501 for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.
- Construction Joints, Control (Contraction) Joints:
  - a. Construction joints in all horizontal and vertical construction joints including between top of footing and foundation walls shall be intentionally roughened to a full amplitude of approximately 1/4 inch. The laitance on the concrete (thin, flaky layer of hardened but weak hydrated cement) shall be mechanically removed from the surface after the concrete has achieved final set.
  - b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed as soon as final set is achieved and it is okay to operate the cutter on the slab. Final set is typically achieved within the first 4 to 6 hours of the slab pour. For early entry saw cutting, joints should be cut within the first 1 to 4 hours, depending on weather conditions and concrete hydration rate. Where saw cut joints cannot be cut along the entire projected length of the joint, a 90 degree hand grinder or other tool shall be used to complete the joint. Control joints may be installed by:
    - Saw cut a depth of 1/4 the thickness of the slab (1 1/4" ± for early entry saws)
    - Tooled joints a depth of 1/4 the thickness of the slab
  - c. For interior concrete slabs-on-grade that are to receive no floor covering, install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise. For interior concrete slabs-on-grade that are to receive floor coverings the contractor has the option to eliminate control joints. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
- Construction:
  - a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported. Support reinforcing steel of slabs on grade with precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
  - b. Concrete to be mechanically consolidated during placement per ACI standards.
  - c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
  - d. All embeds, anchors and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
  - e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping.
  - f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.

**REVIEWED FOR CODE  
COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB**



BHB STRUCTURAL  
2766 S. Main Street  
Salt Lake City, Utah 84115  
801.355.5656  
bhb@bhbingengineers.com

**design west | architects**  
LOGAN UT 84321  
SALT LAKE CITY UT 84103  
255 SOUTH 300 WEST  
795 NORTH 400 WEST

**JSSD ADMINISTRATION BUILDING**  
5780 NORTH, OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANELLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
1	11/02/18	STRUCTURAL AGENDUM

PROJECT #: 180608  
DRAWN BY: DJC  
CHECKED BY: DP  
ISSUED: 11.02.18



GENERAL  
STRUCTURAL NOTES

S-001  
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# GENERAL STRUCTURAL NOTES

## POST-INSTALLED ANCHORS

- General Post-Installed Anchor Notes
  - Do not install adhesive anchors in concrete if less than 21 days old; do not install mechanical anchors, screw anchor or powder actuated anchors in concrete less than 7 days old. Contractor must obtain written approval from the engineer to install prior to these time periods. Do not apply full load to anchors until concrete has reached 28-day compression strength.
  - Anchors specified in details shall be provided; alternative anchors may be used if the contractor provides calculations demonstrating that the alternative can achieve the performance values of the specified product. These calculations, along with an ICC-ES ESR or IAPMO-UES ER approval for use in cracked concrete and compliant with the specified codes herein, must be submitted to the structural engineer prior to use.
  - Follow all the manufacturer's recommendations and certification testing reports for anchor installation. See specific anchors below for more information.
  - No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled with non-shrink grout; increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.
- Adhesive Anchors
  - For concrete, the adhesive shall be HIT RE 500-V3 with Safe Set™ Technology (ICC-ES ESR-3814) by Hilti Inc., HIT-HY 200 with Safe Set™ Technology (ICC-ES ESR-3187) by Hilti Inc., Pure 110 + (ICC-ES ESR-3298) by Powers Fasteners Inc, SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie or AT-XP (IAPMO-UES ER-263) by Simpson Strong-Tie Inc., Sika AnchorFix-3001 (ICC-ES ESR-3608) by Sika Corporation.
  - Unless noted otherwise on specific details, minimum embedment for dowels shall comply with the "Epoxy Dowel Embed Schedule" on sheet S-601.
  - Epoxy shall be within the manufacturer's recommended life time and prior to expiration date. Do not use epoxy that has not been stored per manufacturer's recommendations or may have experienced freeze thaw cycles or extreme heat.
  - Do not install adhesive anchor in wet or damp hole unless product is approved for such conditions without strength reduction. Do not install adhesive anchors if concrete temperature is below 50-degree F unless epoxy is approved for lower temperature without strength reduction. Refer to manufacturer's published installation instructions.
  - Follow all the manufacturer's recommendations and certification testing reports regarding hole cleaning prior to epoxy installation. All holes shall be drilled with ANSI standard bits designed for concrete. Diamond core drilled holes are not allowed unless indicated in specific details or approved by the structural engineer prior to use.
- Mechanical Anchors
  - For concrete, the mechanical anchor shall be Kwik Bolt TZ (ICC-ES ESR-1917) by Hilti Inc., Strong-Bolt 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) by Powers Fasteners Inc.
- Screw Anchors
  - For concrete, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only) by Simpson Strong-Tie, or Screw Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt Kwik HUS-EZ (ICC-ES ESR-3027 for concrete only) by Hilti Inc.
- Powder Actuated Fasteners
  - For fasteners driven into steel, the fastener shall be X-U P8 TH Universal Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., PDPA (ICC-ES ESR-2138) by Simpson Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024) by Powers Fasteners Inc.
  - For fasteners driven into concrete, the fastener shall be X-U Universal Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., PDP or PDPA (ICC-ES ESR-2138) by Simpson Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024 for concrete only) by Powers Fasteners Inc.

## WOOD

- Materials:
  - Fasteners
    - Nails used for all framing anchors, post caps, hold downs, column bases, etc. shall be standard common with the following properties:
 

Nail Size	Shank Diameter	Min. Penetration into Support Member
8d	0.131"	1.50"
10d	0.148"	1.63"
16d	0.162"	1.75"
    - Fastener sizes other than those listed above are not permitted without prior written approval from the engineer.
    - All fasteners, including nails, for preservative-treated and fire retardant-treated wood shall be hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper.
    - Bolts shall be ASTM A36 or equal with ASTM A563 heavy hex nuts and ATSM F436 hardened washers, Grade A, unless noted otherwise.
  - Framing Lumber
    - All framing lumber shall be #2 Douglas Fir-Larch or better unless noted otherwise.
  - Engineered Lumber
    - Glu-lam beams shall be Douglas-fir combination number 24F-V4 except cantilevered and continuous beams shall be combination number 24F-V8. Glu-lam columns shall be DF combination symbol #3 for columns.
    - Wood I-joists shall be TJI as manufactured by Trus-Joist Corporation, BCI as manufactured by Boise Cascade Corporation, Red-I as manufactured by RED Built, SolidStart I-Joists by LP Corporation, RFPI by Roseburg. Engineer note: ADD this section as needed (if a different I-joist manufacturer than what is specified on the drawings is used, the contractor shall submit drawings and calculations to the architect and engineer for review that clearly indicate that joists have been designed for all applicable loads, including mechanic unit loads and that all openings have been accounted for and framed per the details in the structural drawings.)
    - Laminated Veneer Lumber (LVL) shall be Micro-Lam 1.9E by Trus-Joist Corporation, Versa-Lam 2.0E Boise Cascade Corporation, RedLam 2.0E by RED Built, SolidStart LVL 2.0E by LP Corporation or RigidLam 2.0E by Roseburg.
    - Rimboard shall be TimberStrand LSL Rim Board by Trus-Joist Corporation, Versa-Rim by Boise Cascade Corporation, SolidStart LSL by LP Corporation or OSB RigidRim RimBoard by Roseburg (Rimboard shall be 1 1/8" thick, minimum), Rimboard LSL by Redbuilt.
    - All required blocking bridging and bracing shall be provided by joist manufacturer and installed by contractor. All penetrations through the joists shall be done per manufacturers' recommendations and requirements.
  - Sheathing
    - Wood sheathing shall meet the minimum performance criteria given in APA PRP-108, Performance Standards and Policies for Structural-Use Panels, Form E445, Voluntary Product Standard PS 1 & PS 2 and Performance Standard for Wood-Based Structural-Use Panels, Form S350, and Structural Plywood, Form H860. Panels shall be unsanded plywood or oriented strand board (OSB) and shall be interior grade with exterior glue and have the minimum following thickness and span rating indicated in the "Sheathing Schedule at Roof and Floor" on sheet S-601.

- All wood in contact with concrete, masonry or soil shall be pressure treated or be redwood.
- General framing and carpentry shall be connected as per "Minimum Nailing Schedule" on sheet S-601 unless noted otherwise.
- All framing anchors, post caps, hold downs, column bases, etc. shall be provided by Simpson Strong-Tie, USP Structural Connectors or approved equal. If Simpson isn't used, the contractor shall provide a comparison list.
- Provide solid shaped blocking at least 2 in. (nominal) thick and full depth of joist at ends and at each support of joist. Attach blocking between joists to the wood top plate of the wall with one Simpson "A35" framing anchor per each piece of blocking and fill all holes in the framing anchor with 8-d x 1-1/2" nails (12 nails per A35).
- Provide approved bridging at 8'-0" o.c. maximum between joist end supports.
- Built-up beams and columns shall be constructed as per "Built-up Beams and Columns" on sheet S-511 unless noted otherwise.
- All walls shall have a minimum of two top plates. Splices in top plates shall be staggered a minimum of four feet from the nearest splice in adjoining top plate.

## PRE-FABRICATED METAL PLATE WOOD TRUSSES

- The Pre-fabricated metal plate wood trusses shall be designed, signed, and sealed by a Professional Engineer registered in the same state as the project location. They shall be designed to support the concentrated and other distributed loads as shown on the framing plans in addition to the following uniform loads:
  - Dead Load (Top Chord)= 10 psf
  - Dead Load (Bottom Chord)= 10 psf
  - Snow Load (Top Chord)= 38 psf

58 psf Total Load

The wood truss designer shall consider unbalanced snow loading for all sloped roofs exceeding 2.38 degrees (1/2 on 12) or less than 70 degrees. Correlate the design with all mechanical equipment, fire sprinkling systems and hanging walls supported by the trusses. Provide extra trusses where required.
- Design all wood trusses and bearing attachments for wind uplift. Assume a dead load of 8 psf to resist uplift.
- Where the parapet is required to be built into the truss profile, design the parapet for an ultimate wind load of 50 psf in either direction.
- No stress increase is allowed for snow loads.
- Refer to architectural drawings for truss profile. Detailing and shop drawing production for prefab metal plate wood trusses will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevation and slopes are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural drawings. Coordinate roof slope with architectural roof plan, sections and elevations.
- All truss-to-truss connections shall be designed and provided by the truss manufacturer.
- Design, handling, erection, and permanent bracing of metal plate connected wood trusses shall be in accordance with ANSI/TPI-1, National Design Standard for Metal Plated Connected Wood Truss Construction.
- Steel Connector Plates: All steel gusset plates shall be galvanized and shall be approved by the "Research Committee for the International Code Council". Submit a copy of the ICC Report for the connector plate used. Values established by this committee must be indicated on the shop drawings.
  - Stress increases for steel connector plate values for duration of load are not allowed.
  - The minimum size for any connector shall be 8 square inches (not required at truss blocking).
  - All steel gusset plates shall be located on the joint as the stresses require and shall provide a minimum bite of 2.5" length on all tension members (not required at truss blocking).
  - All steel plate dimensions shall be increased by 10% above that required by analysis.
  - Plates shall be pressed or rolled into member to obtain full penetration without crushing the outer surfaces of wood.
- No wane, knots, skips, or other defects shall occur in the plated contact area or scarfed area of web members. Plates shall be centered with one required each side of wood truss.
- The trusses shall be handled and stored in a manner to prevent moisture from being absorbed by the wood.
- Requirements for truss stability and erection shall comply with the Truss Plate Institute publications entitled "Commentary and Recommendations for Bracing Wood Trusses" and "Commentary and Recommendations for Handling and Erecting Wood Trusses." The contractor shall have copies of these publications on site and shall be familiar with their contents.
- Shop Drawings: Complete calculations and shop drawings indicating all member forces, stresses, duration factors, lumber grades, dimensions, truss to truss connections, steel truss plate sizes and locations shall be submitted and reviewed by the engineer before fabrication. Each connector shall be dimensioned on the shop drawings as to its exact location at the joint.

## LEGEND OF MARKS AND ABBREVIATIONS

MARK	DESCRIPTION	UNIT	DESCRIPTION	UNIT
AB	ANCHOR BOLT(S)	K	KIP(S) = 1000 POUNDS	
ABV	ABOVE	KLF	KIPS PER LINEAL FOOT	
ALT	ALTERNATE	KSF	KIPS PER SQUARE FOOT	
APPROX	APPROXIMATE			
ARCH	ARCHITECT(URAL)	LBS	POUNDS	
		LF	LINEAL FOOT	
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL	
BLW	BELOW	LLV	LONG LEG VERTICAL	
BM	BEAM	LSH	LONG SIDE HORIZONTAL	
B.N.	BOUNDARY NAILING	LSV	LONG SIDE VERTICAL	
BOT	BOTTOM	LVL	LAMINATED VENEER LUMBER	
BRG	BEARING			
BTWN	BETWEEN	MAX	MAXIMUM	
		MECH	MECHANICAL	
CC	CENTER-TO CENTER	MFR	MANUFACTURER	
CC-x	CONCRETE COLUMN	MIN	MINIMUM	
CGS	CENTER OF GROSS STEEL	MISC	MISCELLANEOUS	
C.J.	CONST/CONTROL JOINT			
CJP	COMPLETE JOINT PENETRATION GROOVE WELD (FULL PEN WELD)	NIC	NOT IN CONTRACT	
		NTS	NOT TO SCALE	
COL	COLUMN			
CONC	CONCRETE	O.C.	ON CENTER	
CONST	CONSTRUCTION	O.F.	OUTSIDE FACE	
CP-x	CONCRETE PIER	OPNG	OPENING	
CRW-x	CONCRETE RETAINING WALL	OPP	OPPOSITE	
CTR	CENTER			
DW-x	CONCRETE WALL	PAF	POWDER-ACTUATED FASTENER	
		PCF	POUNDS PER CUBIC FOOT	
DB	DECK BEARING	PL	PLATE	
DBA	DEFORMED BAR ANCHOR	PLF	POUNDS PER LINEAL FOOT	
DBE	DECK BEARING ELEVATION	PSF	POUNDS PER SQUARE FOOT	
DBL	DOUBLE	PSI	POUNDS PER SQUARE INCH	
DET	DETAIL	PT	POINT	
DIA	DIAMETER			
DIM	DIMENSION	REINF	REINFORCING	
DN	DOWN	REQD	REQUIRED	
DWG	DRAWING	R.D.	ROOF DRAIN	
DWL	DOWEL	RTU	ROOF TOP UNITS	
EA	EACH	SBP-x	STEEL BASE PLATE MARK	
E.N.	EDGE NAILING	SCW	SEISMIC CRITICAL WELD	
E.F.	EACH FACE	SC-x	STEEL COLUMN MARK	
E.J.	EXPANSION JOINT	SCP-x	STEEL CAP PLATE MARK	
ELEC	ELECTRICAL	SHT	SHEET	
ELEV	ELEVATION	SI	SPECIAL INSPECTION	
E.O.D.	EDGE OF DECK	SIM	SIMILAR	
E.O.S.	EDGE OF SLAB	SMU	SUSPENDED MECHANICAL UNITS	
EQUIP	EQUIPMENT	SOG	SLAB-ON-GRADE	
EQ	EQUAL	SQ	SQUARE	
E.W.	EACH WAY	STAG	STAGGERED	
EXT	EXTERIOR	STD	STANDARD	
		STL	STEEL	
FC-x	CONTINUOUS FOOTING MARK	STR	STRUCTURAL	
F.D.	FLOOR DRAIN	STS	SELF TAPPING SCREWS	
FDN	FOUNDATION			
F.F.	FINISHED FLOOR	T&B	TOP AND BOTTOM	
F.N.	FIELD NAILING	TEMP	TEMPERATURE	
FR-x	RECTANGULAR FOOTING	THDS	THREADS	
FS-x	SQUARE FOOTING MARK	T.O.	TOP OF	
FT	FOOT	TOC	TOP OF CONCRETE	
FTG	FOOTING	TOD	TOP OF DECK	
FTS-x	THICKEN SLAB MARK	TOF	TOP OF FOOTING	
		TOS	TOP OF STEEL	
		TOW	TOP OF WALL	
		TYP	TYPICAL	
		UNO	UNLESS NOTED OTHERWISE	
HORIZ	HORIZONTAL	VERT	VERTICAL	
HSA	HEADED STUD ANCHOR			
HT	HEIGHT	W/	WITH	
		WT	WALL THICKNESS	
		WWF	WELDED WIRE FABRIC	
		WWM	WELDED WIRE MESH	
ICC	INTERNATIONAL CODE COUNCIL			
IBC	INTERNATIONAL BUILDING CODE			
I.F.	INSIDE FACE			
IN.	INCH			
INT	INTERIOR			
JT	JOINT			
JST	JOIST			

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bnb STRUCTURAL  
2766 S. Main Street  
Salt Lake City, Utah 84115  
801.355.5656  
bnb@bnbengineers.com

design west | architects  
255 SOUTH 300 WEST  
795 NORTH 400 WEST  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

JSSD ADMINISTRATION BUILDING  
5780 NORTH, OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANIELLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
1	11/02/18	STRUCTURAL ADDENDUM

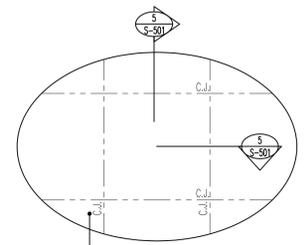
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GENERAL  
STRUCTURAL NOTES



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4" THICK UNREINFORCED  
CONCRETE SLAB ON GRADE.  
T.O.C. = 100'-0"

MARKS AND SYMBOLS LEGEND	
	SECTION MARK SHEET NUMBER
	FOOTING DESIGNATION TOP OF FOOTING ELEVATION
	INDICATES CONCRETE WALL
	INDICATES STRUCTURAL WALL ABOVE
	DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL 6/S-501.
	INDICATES WOOD SHEARWALL (AND TYPE) OVER CONCRETE WALL (AND TYPE), SEE SCHEDULES ON SHEET S-601 & S-602.
	FRxx INDICATES RECTANGULAR FOOTING. SEE SCHEDULE ON SHEET S-601.
	FCxx INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S-601.
	FSxx INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S-601.
	HDxx INDICATES HOLDOWN. SEE SCHEDULE ON SHEET S-602.
	C.J. INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS 5/S-501 AND 6/S-501.
	xb/k INDICATES REQUIRED NUMBER OF BEARING AND KING STUDS. SEE SCHEDULE ON SHEET S-602.
	CP-x INDICATES CONCRETE PIER. SEE SCHEDULE ON SHEET S-601.

- FOOTING AND FOUNDATION PLAN NOTES**
- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
  - SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
  - SEE "EARTHWORK" NOTES ON SHEET S-001 AND DETAIL 11/S-501 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.
  - ALL SPOT FOOTINGS SHALL BE CENTERED UNDER POSTS (UNO).
  - SEE DETAILS 1/S-501 AND 2/S-501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
  - SEE DETAIL 5/S-501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
  - SEE DETAIL 6/S-501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
  - SEE SHEET S-602 FOR HOLDOWN SCHEDULE.
  - SEE DETAIL 9/S-501 FOR TYPICAL SILL PLATE BOLTING DETAIL.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL TIMBER POSTS.
  - SEE DETAIL 3/S-501 FOR FOOTING STEP.
  - SEE DETAIL 7/S-501 FOR DEPRESSED SLAB.

**FOOTING AND FOUNDATION PLAN**



DATE:	DESCRIPTION:
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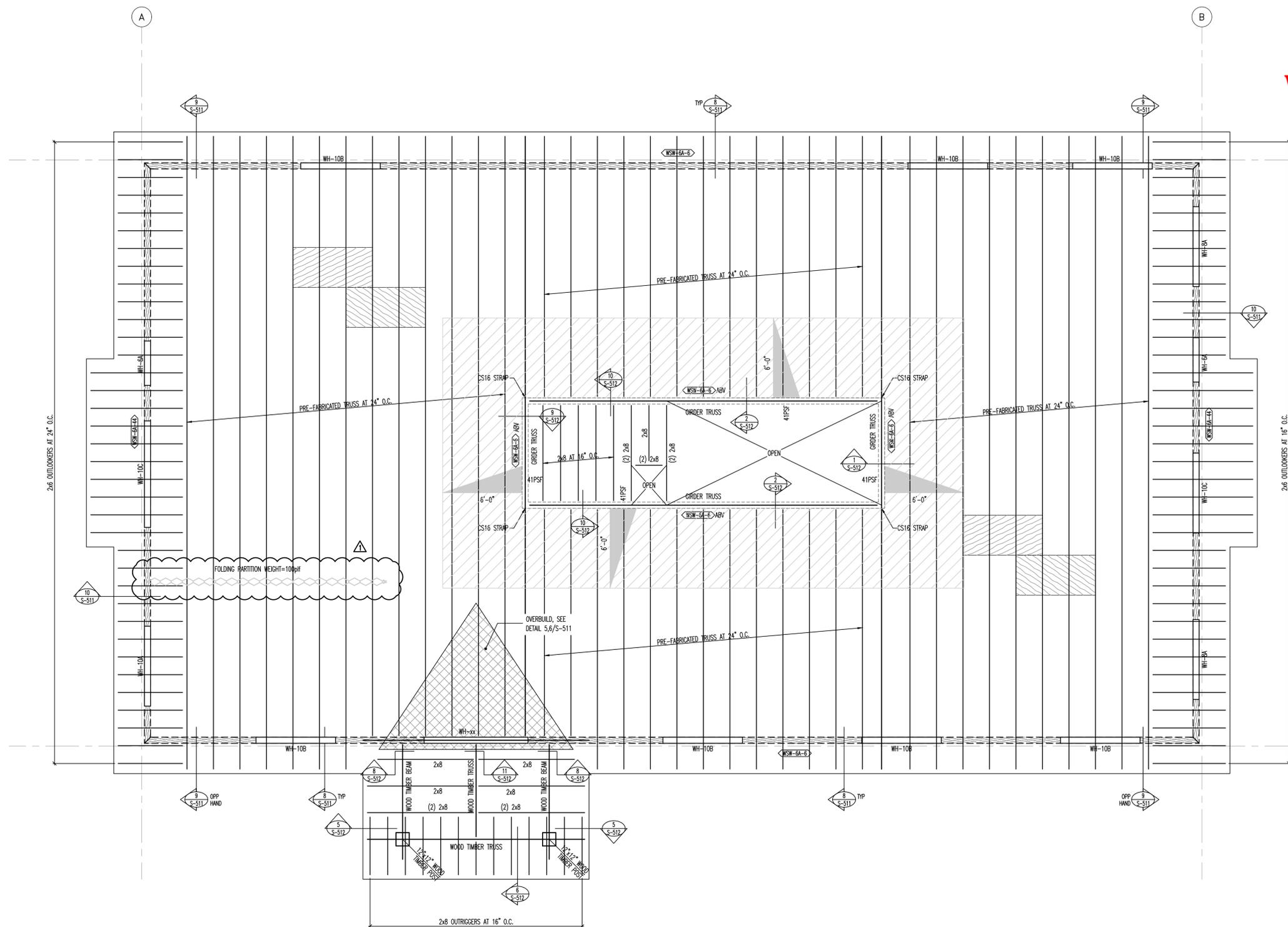
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design west | architects  
255 SOUTH 200 WEST  
795 NORTH 400 WEST  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

JSSD ADMINISTRATION BUILDING  
5780 NORTH, OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANVILLE SPECIAL SERVICE DISTRICT



**SNOW DRIFT LEGEND**

INDICATES AREA OF SNOW DRIFT

INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE NOTE #1).  
X = LOAD AT DRIFT HIGH POINT  
Y = LENGTH OF DRIFT

INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE NOTE #1).  
X = LOAD AT DRIFT HIGH/LOW POINT  
Y = LENGTH OF DRIFT

1. SEE PLAN FOR SNOW DRIFT LOADING. THESE LOADS ARE IN ADDITION TO THE JOIST UNIFORM AND POINT LOADS SHOWN ON PLANS. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO BOTH JOISTS AND GRIDERS.

**MARKS AND SYMBOLS LEGEND**

SECTION MARK SHEET NUMBER

INDICATES WOOD STUD WALL WHICH EXTENDS ABOVE ROOF.

INDICATES WOOD STUD WALL WHICH STOPS AT ROOF.

INDICATES STRUCTURAL WALL ABOVE.

INDICATES PLYWOOD ROOF SHEATHING, SEE SCHEDULE ON SHEET S-602.

INDICATES WOOD SHEARWALL TYPE, SEE SCHEDULE ON SHEET S-602.

INDICATES REQUIRED NUMBER OF BEARING AND KING STUDS, SEE SCHEDULE ON SHEET S-602.

**ROOF FRAMING DESIGN LOADS**

ROOF LOADS:		MEZZANINE LOADS:	
DEAD LOAD	20 psf	DEAD LOAD	20 psf
SNOW LOAD	38 psf	MEZZANINE LOAD	40 psf
TOTAL LOAD	58 psf	TOTAL LOAD	60 psf

- ROOF FRAMING PLAN NOTES**
- VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE DETAIL 1/S-511 FOR FRAMING AROUND ALL OPENINGS.
  - SEE DETAIL 7/S-511 FOR TYPICAL BUILT-UP BEAM DETAIL.
  - SEE DETAIL 2/S-511 FOR TYPICAL TOP PLATE SPLICE DETAIL.
  - SEE DETAIL 3/S-511 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.
  - SEE DETAIL 4/S-511 FOR INTERIOR NON-BEARING WALL BRACING.
  - AT ALL ROOF TRUSS GRIDERS PROVIDE SIMPSON H2.5 HOLDOWN PER DETAIL 8/S-511.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL TIMBER POSTS, BEAMS AND TRUSSES.

ROOF FRAMING PLAN



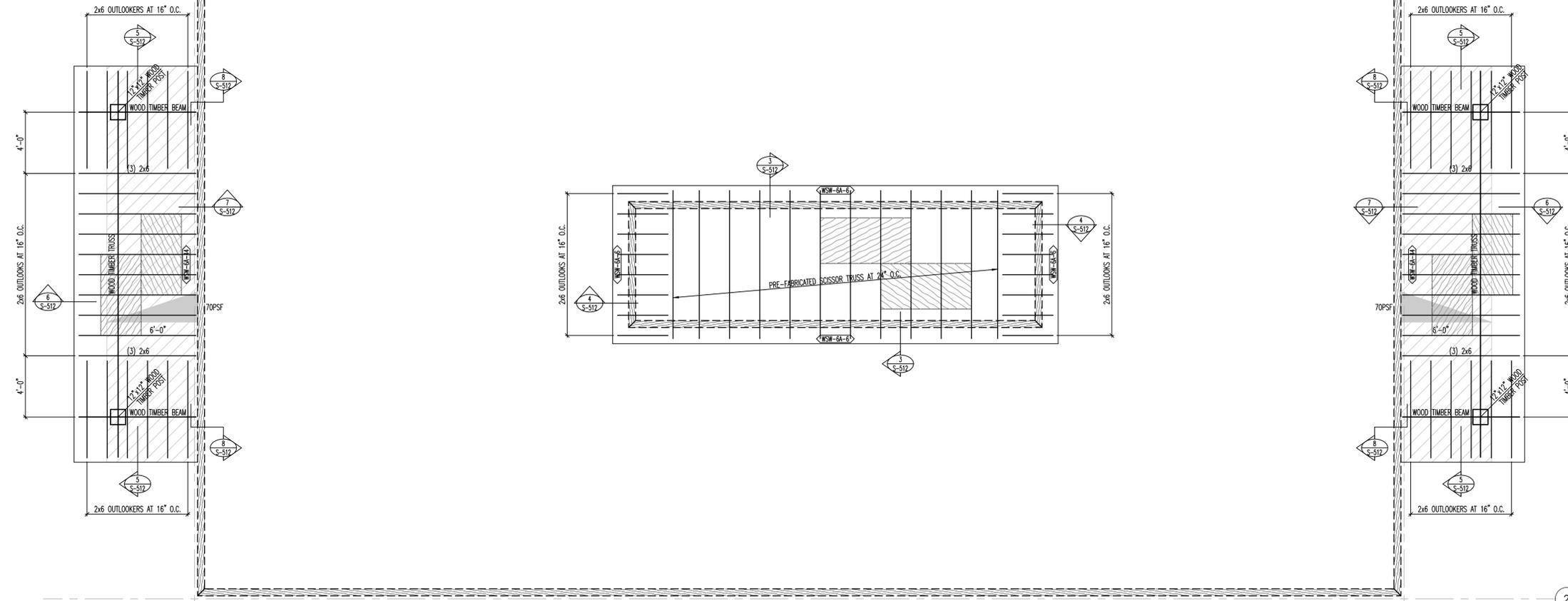
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**bhb STRUCTURAL**  
2766 S Main Street  
Salt Lake City, Utah 84115  
801.555.5656  
bhb@bhbengineers.com

ROOF FRAMING PLAN



**SNOW DRIFT LEGEND**

INDICATES AREA OF SNOW DRIFT

INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE NOTE #1).  
 X = LOAD AT DRIFT HIGH POINT  
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 X = LOAD AT DRIFT HIGH/LOW POINT  
 Y = LENGTH OF DRIFT

1. SEE PLAN FOR SNOW DRIFT LOADING. THESE LOADS ARE IN ADDITION TO THE JOIST UNIFORM AND POINT LOADS SHOWN ON PLANS. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO BOTH JOISTS AND GRIDDERS.

**MARKS AND SYMBOLS LEGEND**

SECTION MARK SHEET NUMBER

INDICATES WOOD STUD WALL WHICH EXTENDS ABOVE ROOF.

INDICATES WOOD STUD WALL WHICH STOPS AT ROOF.

INDICATES STRUCTURAL WALL ABOVE.

INDICATES PLYWOOD ROOF SHEATHING, SEE SCHEDULE ON SHEET S-602.

INDICATES WOOD SHEARWALL TYPE, SEE SCHEDULE ON SHEET S-602.

INDICATES REQUIRED NUMBER OF BEARING AND KING STUDS, SEE SCHEDULE ON SHEET S-602.

**ROOF FRAMING DESIGN LOADS**

ROOF LOADS:		MEZZANINE LOADS:	
DEAD LOAD	20 psf	DEAD LOAD	20 psf
SNOW LOAD	38 psf	SNOW LOAD	40 psf
TOTAL LOAD	58 psf	TOTAL LOAD	60 psf

- ROOF FRAMING PLAN NOTES**
- VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE DETAIL 1/S-511 FOR FRAMING AROUND ALL OPENINGS.
  - SEE DETAIL 7/S-511 FOR TYPICAL BUILT-UP BEAM DETAIL.
  - SEE DETAIL 2/S-511 FOR TYPICAL TOP PLATE SPLICE DETAIL.
  - SEE DETAIL 3/S-511 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.
  - SEE DETAIL 4/S-511 FOR INTERIOR NON-BEARING WALL BRACING.
  - AT ALL ROOF TRUSS GRIDDERS PROVIDE SIMPSON H2.5 HOLD-DOWN PER DETAIL 8/S-511.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL TIMBER POSTS, BEAMS AND TRUSSES.

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HIGH/LOW ROOF FRAMING PLAN



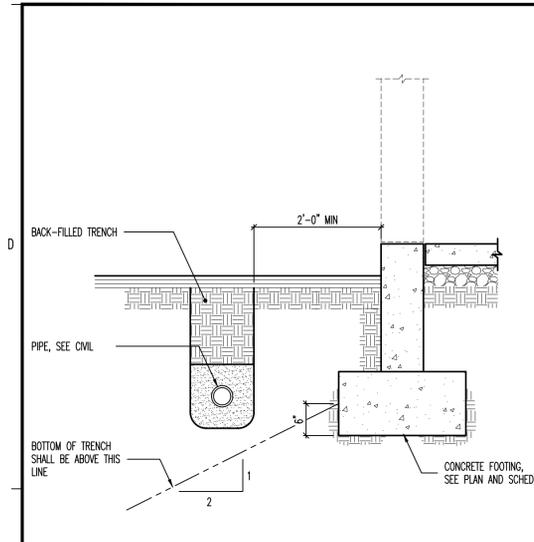
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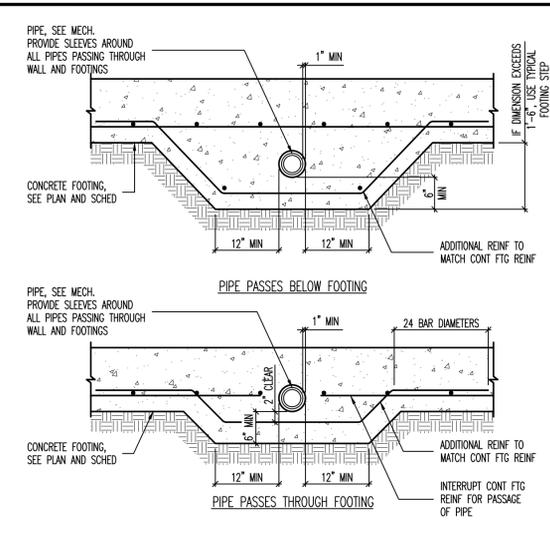


**bhb STRUCTURAL**  
 2766 S Main Street  
 Salt Lake City, Utah 84115  
 801.355.5656  
 bhb@bhberngineers.com

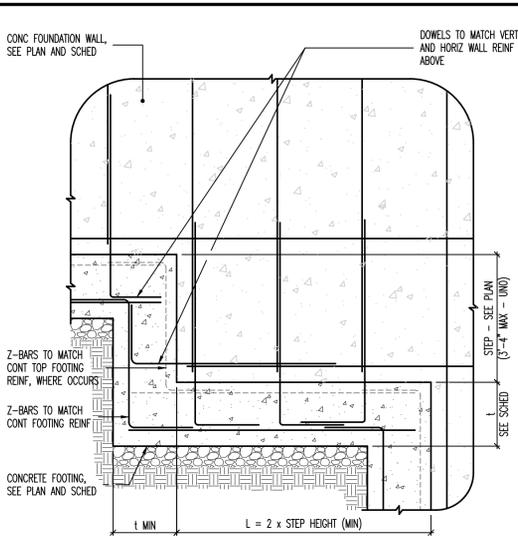
HIGH/LOW ROOF FRAMING PLAN



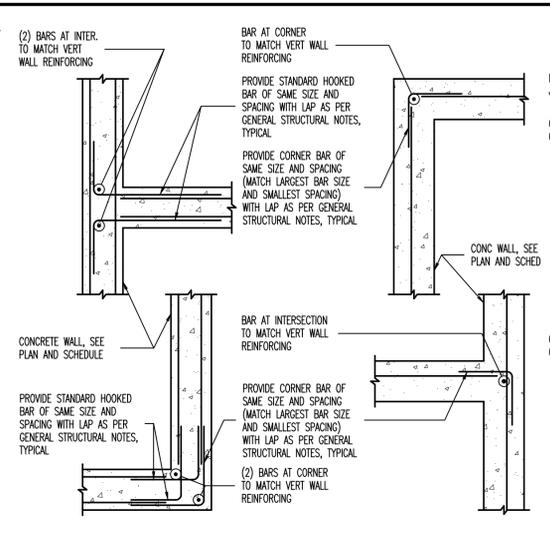
**1** CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING  
NO SCALE



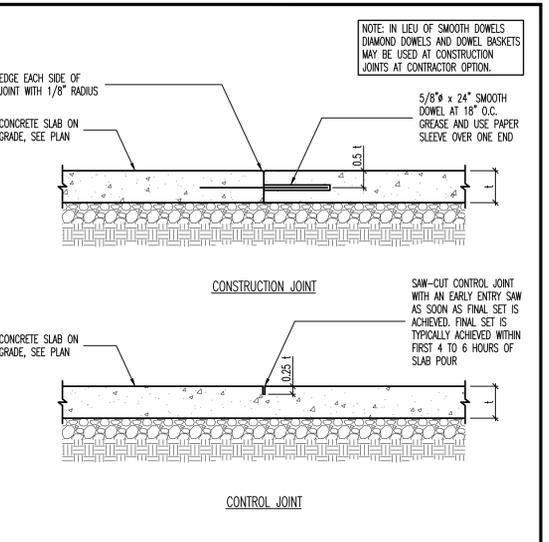
**2** CONDITIONS AT PIPE PERPENDICULAR TO FOOTING  
NO SCALE



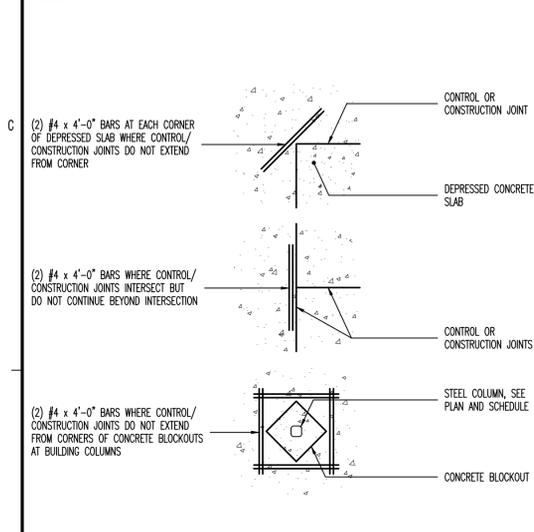
**3** TYPICAL FOOTING STEP DETAIL  
NO SCALE



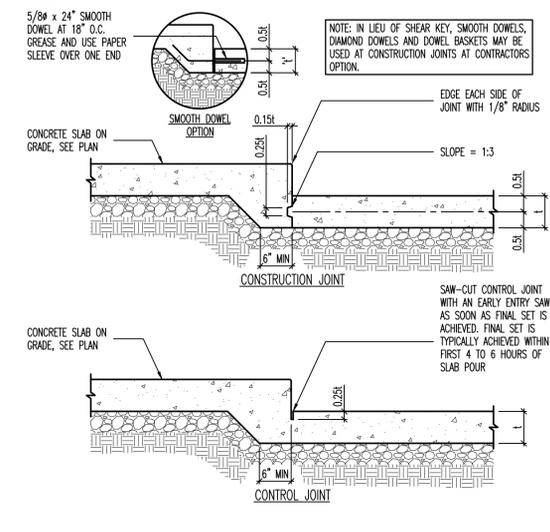
**4** TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS  
NO SCALE



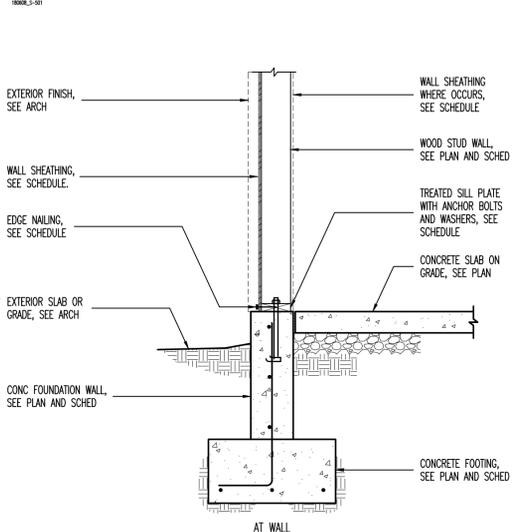
**5** TYPICAL SLAB ON GRADE JOINT DETAILS  
NO SCALE



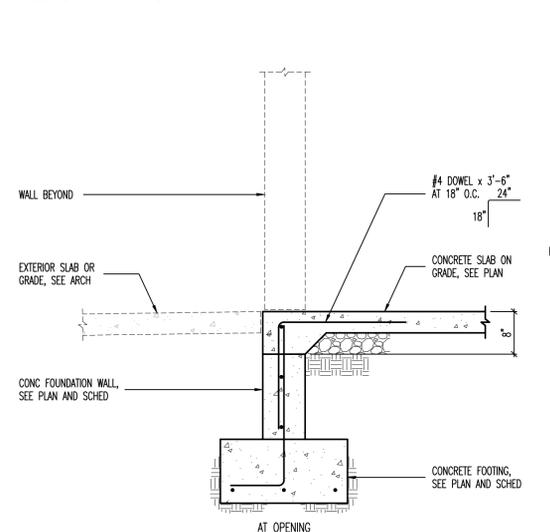
**6** LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING  
[PLAN VIEW]  
NO SCALE



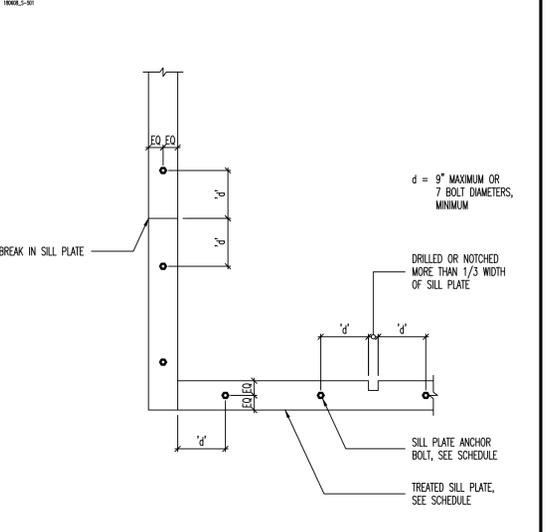
**7** JOINT DETAILS AT SLAB DEPRESSIONS  
NO SCALE



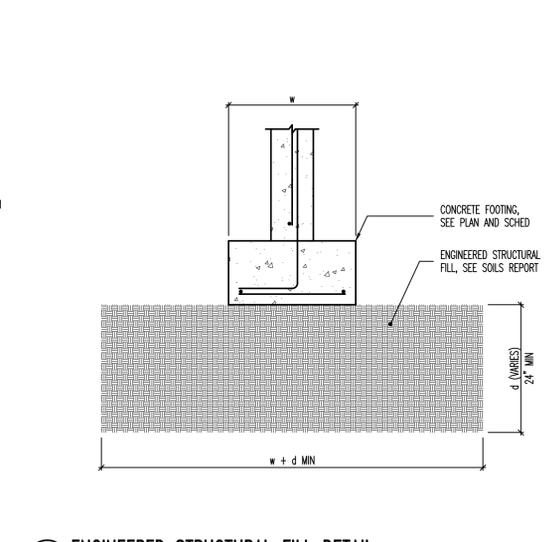
**8** EXTERIOR WOOD STUD WALL BEARING ON CONCRETE FOUNDATION WALL  
NO SCALE



**9** SILL PLATE BOLTING DETAIL  
[PLAN VIEW]  
NO SCALE



**10** WOOD POST BEARING ON CONCRETE PIER  
NO SCALE



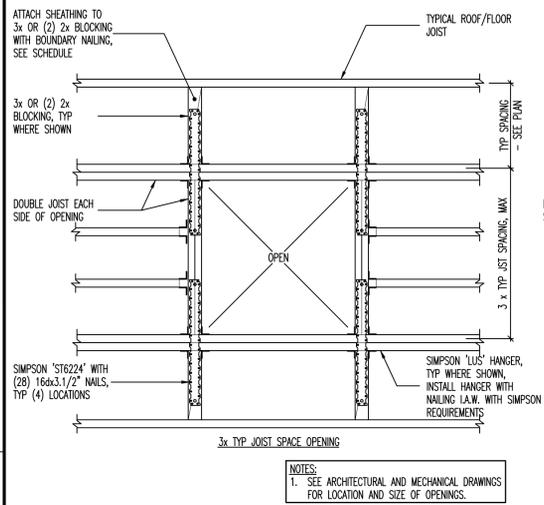
**11** ENGINEERED STRUCTURAL FILL DETAIL  
NO SCALE

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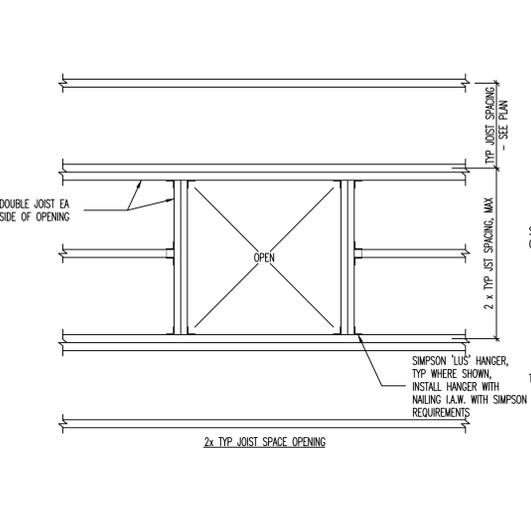
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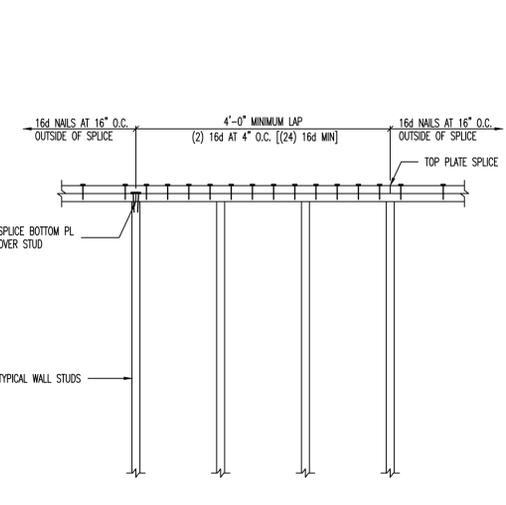
**FOOTING AND  
FOUNDATION  
DETAILS**



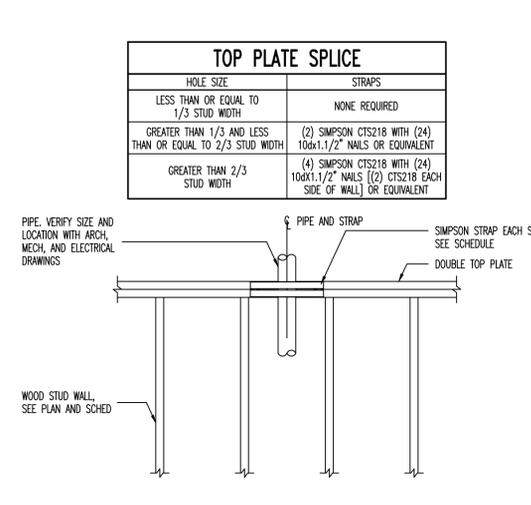
**1 FRAMING AT CONVENTIONALLY FRAMED ROOF OPENINGS [PLAN VIEW]**  
NO SCALE



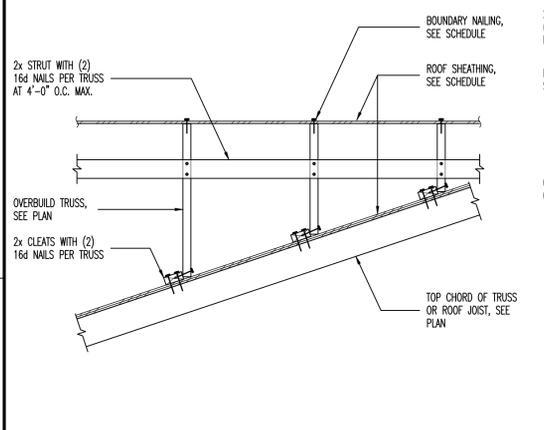
**2 TYPICAL TOP PLATE SPLICE DETAIL**  
NO SCALE



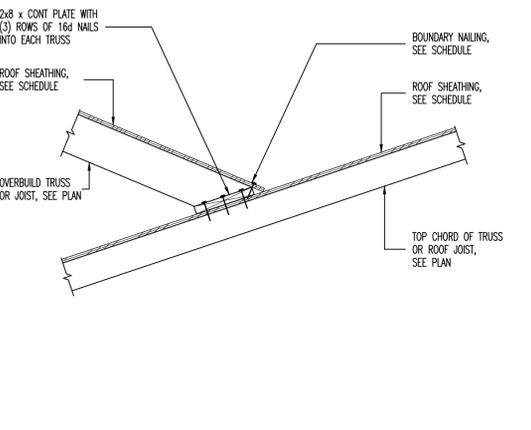
**3 TOP PLATE SPLICE SCHEDULE AT PIPE**  
NO SCALE



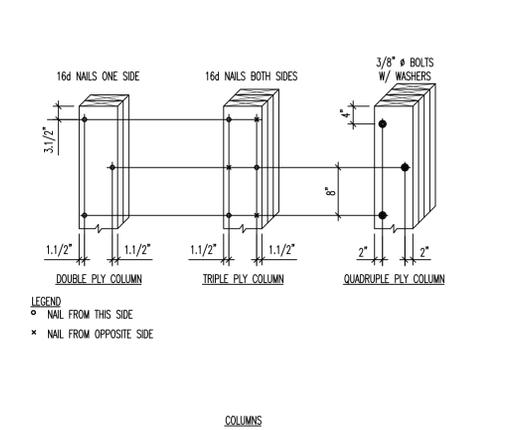
**4 TYPICAL INTERIOR NON-BEARING WALL BRACING**  
NO SCALE



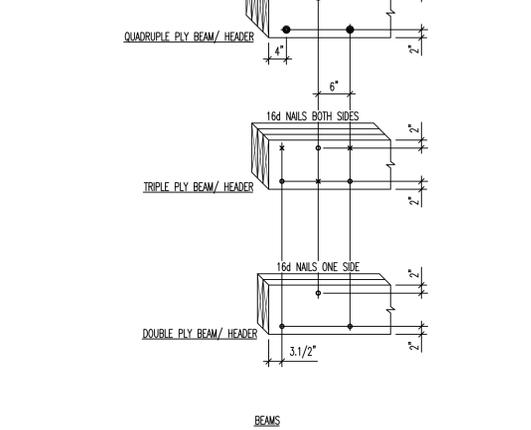
**5 OVERBUILD DETAIL**  
NO SCALE



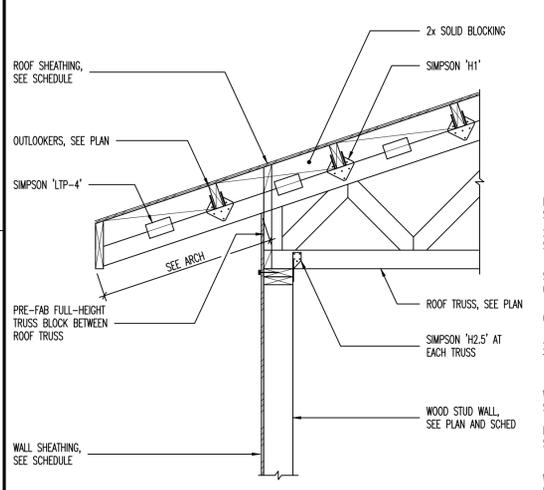
**6 OVERBUILD DETAIL**  
NO SCALE



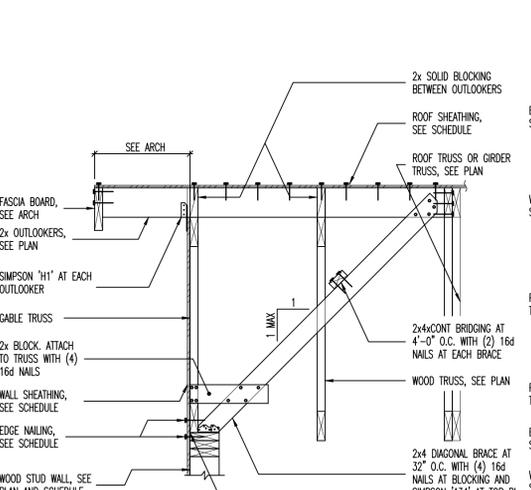
**7 TYPICAL BUILD-UP WOOD MEMBER DETAIL**  
NO SCALE



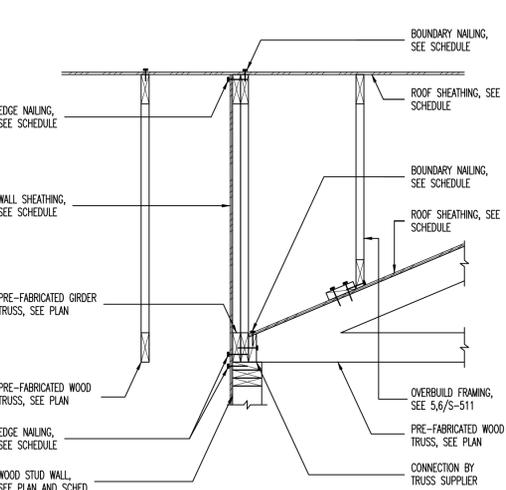
**8 WOOD TRUSS BEARING AT WOOD STUD WALL**  
NO SCALE



**9 WOOD TRUSS BEARING AT WOOD STUD WALL**  
NO SCALE



**10 GABLE FRAMING DETAIL**  
NO SCALE



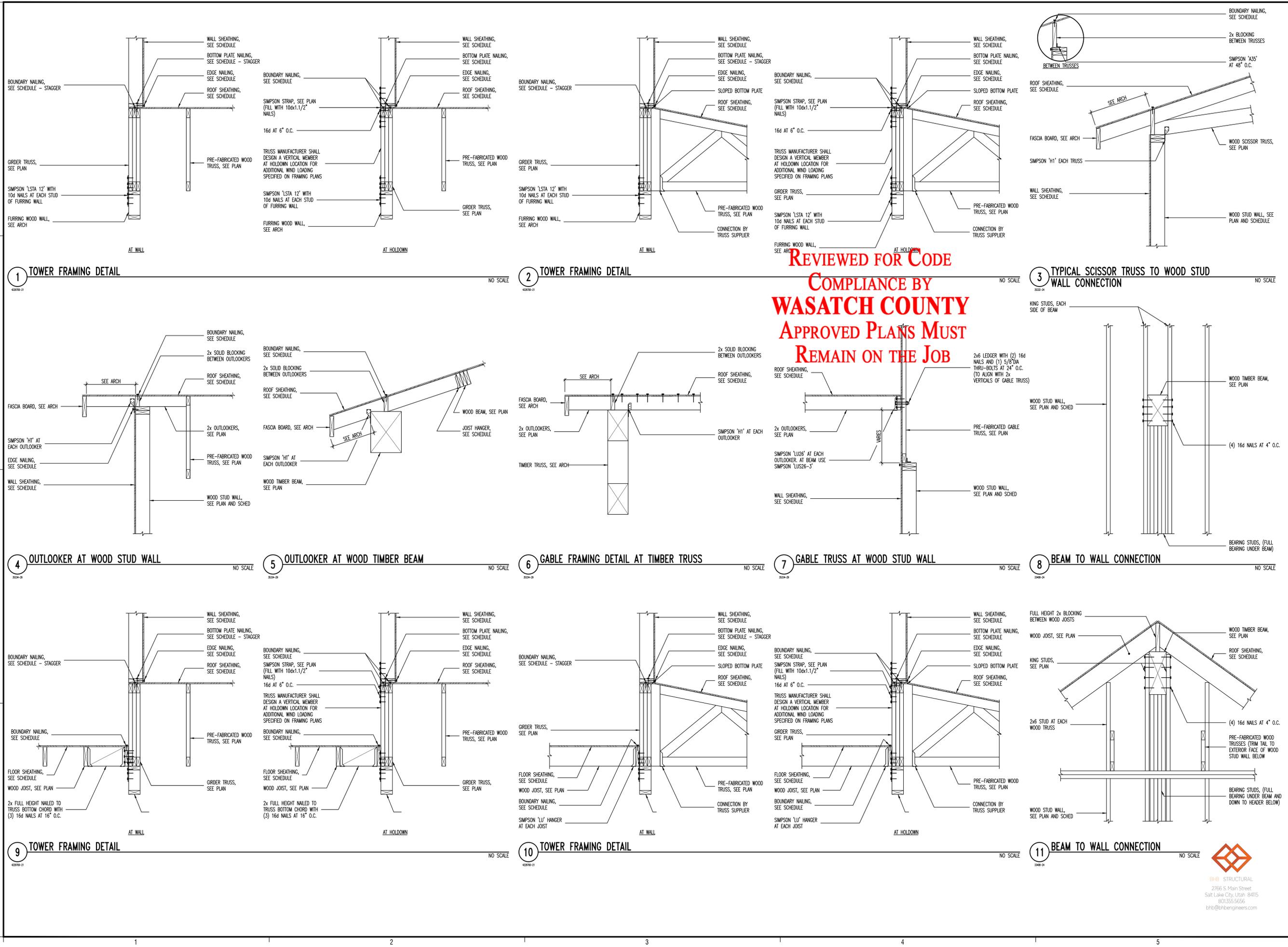
**11 TRUSS BEARING AT GIRDER TRUSS UNDER OVERBUILD**  
NO SCALE

**REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB**

DESCRIPTION:	STRUCTURAL ADDENDUM
DATE:	11/02/18
MARK:	1
PROJECT #:	180608
DRAWN BY:	DJC
CHECKED BY:	DP
ISSUED:	11.02.18



**bhb STRUCTURAL**  
2766 S Main Street  
Salt Lake City, Utah 84115  
801.355.5656  
bhb@bhberngengineers.com



**REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB**

DESCRIPTION:	STRUCTURAL ADDENDUM
DATE:	11/02/18
MARK:	1

PROJECT #: 180608  
DRAWN BY: DJC  
CHECKED BY: DP  
ISSUED: 11.02.18



REVIEWED FOR CODE  
COMPLIANCE BY  
**WASATCH COUNTY**  
APPROVED PLANS MUST  
REMAIN ON THE JOB

CONCRETE FOOTING SCHEDULE											
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE		COMMENTS	
				No.	SIZE	LENGTH	SPACING	No.	SIZE		LENGTH
FC2.0	2'-0"	CONT	12"	-	#4	1'-6"	48"	3	#4	CONT	EQ
FS3.5	3'-6"	3'-6"	12"	4	#4	3'-0"	EQ	4	#4	3'-0"	EQ
FS6.5	6'-6"	6'-6"	24"	6	#5	6'-0"	EQ	6	#5	6'-0"	EQ
FR6x8	6'-8"	8'-0"	24"	6	#6	5'-6"	EQ	6	#5	7'-6"	EQ
FR6x16	6'-0"	16'-0"	24"	11	#9	5'-6"	EQ	6	#5	15'-6"	EQ

- CONCRETE FOOTING NOTES:
- PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
  - TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
  - IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
  - RUN CONTINUOUS FOOTING REINFORCEMENT THROUGH SPOT FOOTINGS.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  - SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

1 CONCRETE FOOTING SCHEDULE

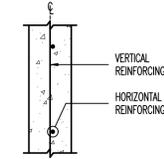
2020\_CONC\_FT-C000-0100

CONCRETE WALL SCHEDULE						
MARK	THICKNESS	REINFORCING		TOP AND BOTTOM	WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL			
OW-8A	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	

ABBREVIATIONS:  
E.F. EACH FACE  
I.F. INSIDE FACE  
O.F. OUTSIDE FACE

WALLS NOT DESIGNATED IN PLAN		
THICKNESS	REINFORCING	
	VERTICAL	HORIZONTAL
6"	#4 AT 18" O.C.	#4 AT 16" O.C.
8"	#4 AT 18" O.C.	#4 AT 12" O.C.
10"	#4 AT 16" O.C.	#5 AT 15" O.C.
12"	#4 AT 18" O.C. E.F.	#4 AT 16" O.C. E.F.

WALL REINFORCING PLACEMENT TYPES:



TYPE "A"

- CONCRETE FOUNDATION WALL NOTES:
- SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

3 CONCRETE WALL SCHEDULE

2020\_CONC\_WALL-01

BAR SIZE	CONCRETE REINFORCING BAR LAP SPlice SCHEDULE															
	f'c = 3000psi & f'c = 3500 psi				f'c = 4000psi & f'c = 4500 psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	16"	15"	20"	
#4	22"	28"	29"	37"	19"	25"	25"	32"	17"	22"	22"	29"	16"	20"	27"	
#5	28"	36"	36"	47"	24"	31"	31"	40"	22"	28"	28"	36"	20"	26"	33"	
#6	33"	43"	43"	56"	29"	37"	37"	48"	26"	33"	33"	43"	24"	31"	40"	
#7	48"	63"	63"	81"	42"	54"	54"	70"	37"	49"	49"	63"	34"	44"	58"	
#8	55"	72"	72"	93"	48"	62"	62"	80"	43"	56"	55"	72"	39"	51"	66"	
#9	62"	81"	81"	105"	54"	70"	70"	91"	48"	63"	63"	81"	44"	57"	74"	
#10	70"	91"	91"	118"	61"	79"	79"	102"	54"	70"	70"	91"	50"	64"	83"	
#11	78"	101"	101"	131"	67"	87"	87"	113"	60"	78"	78"	101"	55"	71"	93"	

TABULATED VALUES ARE FOR CASE 1 REINFORCEMENT, WHERE THE REQUIREMENTS OF TABLE BELOW ARE MET. WHERE THESE CONDITIONS ARE NOT MET, MULTIPLY THE LAP LENGTHS (Ld) BY 1.5.

REQUIREMENT FOR CASE 1 LAP LENGTHS		
BAR CLEAR SPACING	CLEAR COVER	STIRRUPS OR TIES
>=db	>=db	>=CODE FOR MINIMUM THROUGHOUT Ld
>=2db	>=db	NO REQUIREMENT

db = BAR DIAMETER

- CONCRETE REINFORCING BAR LAP SPlice NOTES:
- THIS SCHEDULE SHALL BE USED FOR ALL BAR SPlices IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
  - CLASS "A" SPlices MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPliced WITHIN THE LAP SPlice LENGTH.
  - CLASS "B" SPlices SHALL BE USED FOR ALL SPlices UNLESS THE REQUIREMENTS OF NOTE NO. 2 ABOVE ARE MET.
  - TIES AND STIRRUPS SHALL NOT BE SPliced.
  - DO NOT SPlice VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.
  - THE VALUES TABULATED IN SCHEDULE ARE FOR GRADE 60 REINFORCING BARS. FOR GRADE 75, MULTIPLY LAP LENGTHS BY 1.25 AND FOR GRADE 80, MULTIPLY BY 1.33.
  - THE VALUES TABULATED IN SCHEDULE ARE MINIMUM REQUIREMENTS. LONGER LENGTHS MAY BE USED FOR CONSTRUCTIBILITY.
  - TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
  - FOR EPOXY-COATED OR ZINC AND EPOXY DUAL-COATED BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db, MULTIPLY LAP LENGTHS BY 1.5.
  - FOR ALL OTHER CASES MULTIPLY BY 1.2.
  - FOR LIGHT WEIGHT CONCRETE, MULTIPLY LAP LENGTHS BY 1.33 UNLESS THE AVERAGE SPLITTING TENSILE STRENGTH (Fst) IS SPECIFIED. FOR LIGHT WEIGHT CONCRETE WHERE Fst IS SPECIFIED, REFER TO AC308-14 SECTION 19.2.4.3.
  - SPlices FOR BUNDLED BARS:
    - FOR BUNDLED BARS OF THREE OR LESS, LAP SPlice LENGTHS SHALL BE MULTIPLIED BY 1.2.
    - FOR BUNDLED BARS OF FOUR OR MORE, LAP SPlice LENGTHS SHALL BE MULTIPLIED BY 1.33.
    - INDIVIDUAL BAR SPlices WITHIN A BUNDLE SHALL NOT OVERLAP.
    - ENTIRE BUNDLES SHALL NOT BE LAP SPliced.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

2 CONCRETE REINFORCING BAR LAP SPlice SCHEDULE

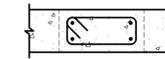
2020\_CONC\_LAP-01

CONCRETE PIER SCHEDULE					
MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-22A	22"x22"	(8) #5 BARS	(3) #3 AT 8" O.C.	A	
CP-16A	16"x16"	(4) #5 BARS	#3 AT 8" O.C.	B	

- CONCRETE PIER NOTES:
- INSTALL (3) SETS OF TIES WITHIN TOP 5" OF ALL PIERS (UNO).
  - RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



TYPE "A"

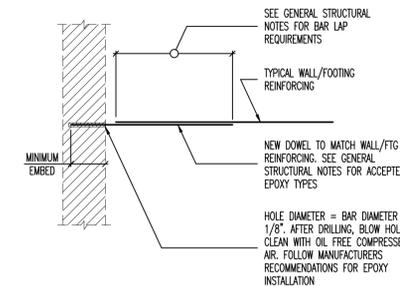


TYPE "B"

4 CONCRETE PIER SCHEDULE

2020\_CONC\_PIE-01

EPOXY DOWEL EMBED SCHEDULE	
DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	6.1/2"
#5	7.1/2"
#6	10"
#7	1'-1"
#8	1'-4"



SEE GENERAL STRUCTURAL NOTES FOR BAR LAP REQUIREMENTS

TYPICAL WALL/FOOTING REINFORCING

NEW DOWEL TO MATCH WALL/FTG REINFORCING. SEE GENERAL STRUCTURAL NOTES FOR ACCEPTED EPOXY TYPES

HOLE DIAMETER = BAR DIAMETER + 1/8". AFTER DRILLING, BLOW HOLE CLEAN WITH OIL FREE COMPRESSED AIR. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR EPOXY INSTALLATION

5 EPOXY DOWEL EMBED SCHEDULE

2020\_CONC\_EP-01

design west | architects  
LOGAN UT 84321  
SALT LAKE CITY UT 84103  
255 SOUTH 200 WEST  
795 NORTH 400 WEST

JSSD ADMINISTRATION BUILDING  
5780 NORTH, OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANVILLE SPECIAL SERVICE DISTRICT

DATE:	DESCRIPTION:
11/02/18	STRUCTURAL ADDENDUM

PROJECT #: 180608  
DRAWN BY: DJC  
CHECKED BY: DP  
ISSUED: 11.02.18



11/02/2018



BHB STRUCTURAL  
2766 S Main Street  
Salt Lake City, Utah 84115  
801.355.5656  
bhb@bhbenigneers.com

SCHEDULES

S-601

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REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB

MINIMUM NAILING SCHEDULE	
CONNECTION	NAILING
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOE NAIL	(3) 8d
RM JOIST TO TOP PLATE, TOE NAIL	8d AT 6" O.C.
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
JACK RAFTER TO HIP, TOE NAIL	(3) 16d
FACE NAIL	(2) 16d
ROOF RAFTER TO 2x RIDGE BEAM, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
JOIST TO BAND JOIST, FACE NAIL	(3) 16d
LEDGER STRIP, FACE NAIL	(3) 16d
TOP PLATE TO STUD, END NAIL	(2) 16d
DOUBLE STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLED TOP PLATES, FACE NAIL	16d AT 16" O.C.
TOP PLATES, LAPS & INTERSECTION, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOENAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOENAIL	(3) 8d
1" BRACE TO EACH STUD & PLATE, FACE NAIL	(3) 8d
BUILT-UP CORNER STUDS	16d AT 24" O.C.
BUILT-UP GIRDER & BEAMS	20d AT 32" O.C. AT TOP, BOTTOM, AND STAGGERED ON OPPOSITE SIDES. (2) 20d AT ENDS AND AT EACH SPLICE.
STUD TO SOLE PLATE, TOE NAIL	(4) 8d
STUD TO SOLE PLATE, END NAIL	(2) 16d
PLYWOOD & PARTICLEBOARD:	SEE WOOD SCHEDULE USED IN DRAWINGS FOR NAIL SIZE AND SPACING

- MINIMUM NAILING NOTES:
- NAILING SCHEDULE IS PER TABLE 2304.10.1 OF THE I.B.C. 2015.
  - NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE SHOWN ON THE PLANS OR DETAILS.
  - ALL NAILS USED ARE COMMON NAILS.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

1 MINIMUM NAILING SCHEDULE

1/2018\_001\_ML-01

NO SCALE

MISCELLANEOUS SIMPSON HARDWARE SCHEDULE					
POST BASES AND POST CAPS		SHEAR CLIPS		STRAPS*	
CONNECTOR	MINIMUM NAILING	CONNECTOR	MINIMUM NAILING	CONNECTOR	MINIMUM NAILING
AC/ACE	16d	A34	(8) 8d x 1.1/2"	LSTA	10d
LC	16d	A35	(12) 8d x 1.1/2"	LSTI	10d x 1.1/2"
BC	16d	LTP4	(12) 8d x 1.1/2"	MST	16d
PC	16d	LTP5	(12) 8d x 1.1/2"	MSTA	16d
CCD	1/4"x2.1/2" SDS	L90	(10) 10d x 1.1/2"	MSTI	10d x 1.1/2"
LPC	10d			ST	16d
LCC	16d			MSTC	16d SINKER
LGB	16d			CMST <sup>B</sup>	16d
CCD	10d			CS <sup>E</sup>	10d
FPB	16d				
MFB	16d				
ABM/ABW	16d				
ABU	16d				
MFB	1/4"x2.1/2" SDS				
FPB	10d				
CSQ	1/4"x2" SDS				

- SCHEDULE NOTES:
- INCREASE NAIL SPACING WHEN NAILING OCCURS IN NARROW FACE OF ENGINEERED LUMBER, SEE GENERAL STRUCTURAL NOTES.
  - 10d NAILS ARE PERMITTED IF TRIANGULAR HOLES ARE FILLED.
  - 8d NAILS ARE PERMITTED IF NAIL QUANTITY IS INCREASED BY 20%.

- MISCELLANEOUS SIMPSON HARDWARE NOTES:
- FILL MINIMUM NAIL HOLES (UNLESS NOTED OTHERWISE).
  - ALL INFORMATION IS PROVIDED ONLY FOR 'SIMPSON STRONG-TIE' HARDWARE. NO SUBSTITUTIONS ARE PERMITTED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM STRUCTURAL ENGINEER OF RECORD.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

FASTENING IDENTIFICATION				
ROUND HOLES	OBLONG HOLES	HEXAGONAL HOLES	TRIANGULAR HOLES	DIAMOND HOLES
PURPOSE: TO FASTEN A CONNECTOR. FILL REQUIREMENTS: ALWAYS FILL (UNLESS NOTED OTHERWISE).	PURPOSE: TO MAKE FASTENING A CONNECTOR IN A TIGHT LOCATION EASIER. FILL REQUIREMENTS: ALWAYS FILL.	PURPOSE: TO FASTEN A CONNECTOR TO CONCRETE OR MASONRY. FILL REQUIREMENTS: ALWAYS FILL WHEN CONNECTING TO CONCRETE OR MASONRY.	PURPOSE: TO INCREASE A CONNECTOR'S STRENGTH OR TO ACHIEVE MAX. STRENGTH. FILL REQUIREMENTS: WHEN MAX. NAILING IS SPECIFIED.	PURPOSE: TEMPORARY FASTENING TO EASE INSTALLATION. FILL REQUIREMENTS: NONE.

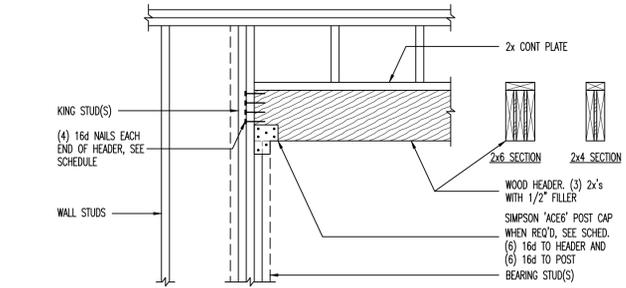
2 MISCELLANEOUS SIMPSON HARDWARE SCHEDULE

1/2018\_001\_CNCR-01

NO SCALE

HEADER BEARING SCHEDULE FOR WOOD STUD WALL (WH-x)					
MARK	DESIGNATION	CONNECTIONS	JAMB		COMMENTS
			BEARING STUD(S)	KING STUD(S)	
WH-6A	(3) 2x6	(4) 16d NAILS	1	1	
WH-8A	(3) 2x8	(4) 16d NAILS	1	1	
WH-10A	(3) 1.3/4"x9.1/2" LVL	(4) 16d NAILS AND SIMPSON 'ACE5' POST CAP	3	2	
WH-10B	(3) 1.3/4"x9.1/2" LVL	(4) 16d NAILS AND SIMPSON 'ACE5' POST CAP	2	1	
WH-10C	(3) 2x10	(4) 16d NAILS AND SIMPSON 'ACE5' POST CAP	1	2	

- HEADER BEARING SCHEDULE NOTES:
- PROVIDE SIMPSON 'ACE5' POST CAP FOR ALL HEADER 6'-0" SPAN OR GREATER.



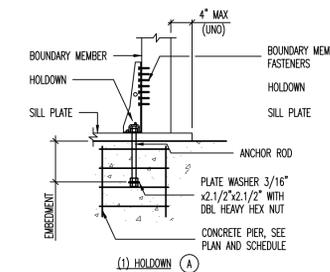
3 HEADER BEARING SCHEDULE FOR 2x6 STUD WALL (WH-x)

1/2018\_001

NO SCALE

HOLDOWN SCHEDULE									
SIMPSON HOLDOWN	BOUNDARY MEMBER	BOUNDARY MEMBER FASTENERS	END LENGTH	ANCHOR ROD	LOCATION	EMBEDMENT		DETAIL	COMMENTS
						CAST IN PLACE	EPOXY		
HOU2	(2) 2x6 DF NO.2 MIN	(6) 1/4"DIA x 2.1/2" SDS		5/8"DIA	AT FOOTING AT CONC WALL W/ CONC. PER	9"	11"	A	NOTE 6
HOU8	(3) 2x6 DF NO.2 MIN	(20) 1/4"DIA x 2.1/2" SDS		7/8"DIA	AT FOOTING AT CONC WALL W/ CONC. PER	12"	15"	A	NOTE 6
HOU11	6x6 POST DF NO.2 MIN	(30) 1/4"DIA x 2.1/2" SDS		1"DIA	AT FOOTING AT CONC WALL W/ CONC. PER	15"	15"	A	NOTE 6
HOU14	6x6 POST DF NO.2 MIN	(36) 1/4"DIA x 2.1/2" SDS		1"DIA	AT FOOTING AT CONC WALL W/ CONC. PER	15"	18"	A	NOTE 6

- HOLDOWN NOTES:
- ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.
  - LAG SCREWS SHALL NOT BE USED.
  - DO NOT OVER TORQUE NUTS; SEE MANUFACTURER'S TORQUE REQUIREMENTS.
  - ANCHOR RODS SHALL BE ASTM F1554 Gr. 36 OR A36 THREADED ROD AND SHALL HAVE A 3/16"x2.1/2"x2.1/2" PLATE WASHER WITH DOUBLE HEAVY HEX NUT AT THE EMBEDMENT END INTO THE CONCRETE.
  - INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
  - WHERE CONCRETE PIER IS PROVIDED IN WALL, ANCHOR BOLT MUST FALL WITHIN THE REINFORCING TIES OF THE PIER.
  - STRAP HOLDOWNS CANNOT BE BENT OUT OF POSITION FOR WALL INSTALLATION.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



4 HOLDOWN SCHEDULE

1/2018\_001

NO SCALE

design west | architects  
LOGAN UT 84021  
SALT LAKE CITY UT 84103  
255 SOUTH 200 WEST  
795 NORTH 400 WEST

JSSD ADMINISTRATION BUILDING  
5780 NORTH, OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANVILLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
1	11/02/18	STRUCTURAL ADDENDUM

PROJECT #: 180608  
DRAWN BY: DJC  
CHECKED BY: DP  
ISSUED: 11.02.18



BBB STRUCTURAL  
2766 S Main Street  
Salt Lake City, Utah 84115  
801.355.5656  
bhb@bbberengineers.com

SCHEDULES

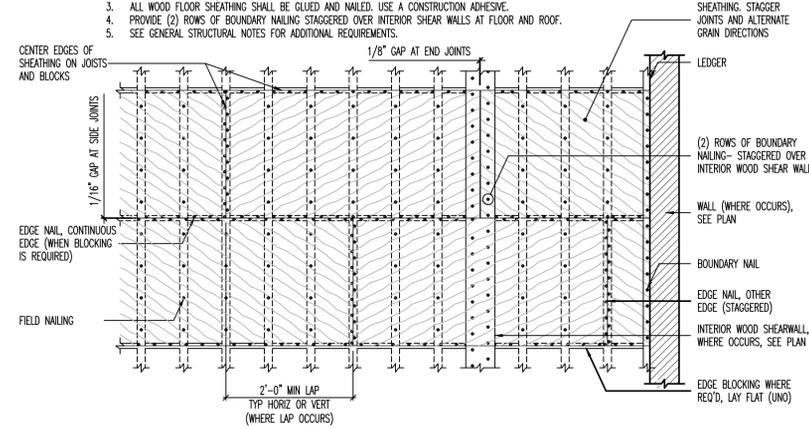
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**WASATCH COUNTY**  
APPROVED PLANS MUST  
REMAIN ON THE JOB

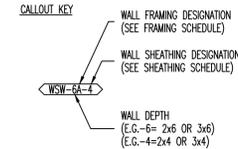
SHEATHING SCHEDULE AT ROOF AND FLOOR									
LOCATION	WOOD SHEATHING THICKNESS	SPAN RATING	NAIL SIZE	EDGE NAIL		FIELD NAIL	BOUNDARY NAIL	EDGE BLOCK	COMMENTS
				CONT. EDGE	OTHER EDGE				
ROOF	19/32"	40/20	10d	6"	6"	12"	6"	NO	

- SHEATHING NOTES:**
- MINIMUM NAIL PENETRATION INTO FRAMING: 8d-1.1/2", 10d-1.5/8".
  - USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148").
  - ALL WOOD FLOOR SHEATHING SHALL BE GLUED AND NAILED. USE A CONSTRUCTION ADHESIVE.
  - PROVIDE (2) ROWS OF BOUNDARY NAILING STAGGERED OVER INTERIOR SHEAR WALLS AT FLOOR AND ROOF.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



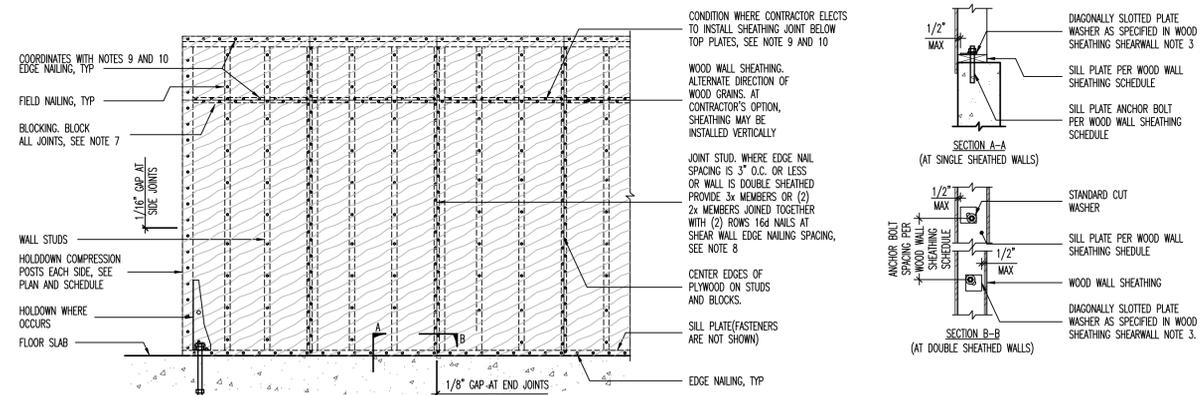
**5 SHEATHING SCHEDULE AT ROOF [PLAN VIEW]**  
NO SCALE

WOOD WALL FRAMING SCHEDULE (WSW-x)				
MARK	STUDS	TOP PLATE	RIM BOARD	COMMENTS
WSW-6A	2x6 @ 16" O.C.	(2) 2x6	(1) 1.1/2" LVL RM	INTERIOR CORRIDOR WALLS



7/16" WOOD WALL SHEATHING SCHEDULE (WSW-x)											
MARK	STUD & BLOCK AT JOINTS (NOTE 7)	THICKNESS	NAIL SIZE	EDGE NAIL	FIELD NAIL	SILL OR BOTTOM PLATE	BOTTOM PLATE FASTENERS	SILL PLATE ANCHOR BOLTS (NOTE 9 & 10)	RIM BOARD FASTENERS (NOTE 9 & 10)	CAPACITIES EQ. WL	COMMENTS
N		SEE ARCH	-	-	-		16d NAILS AT 6" O.C.	5/8" DIA AT 48" O.C.	16d TOENAIL AT 8" O.C.	60plf 60plf	NO STRUCTURAL SHEATHING REQ'D
6	2x	7/16" OSB	8d	6" O.C.		2x	16d NAILS AT 6" O.C.	5/8" DIA AT 39" O.C.	A34' AT 16" O.C.	280plf 348plf	
4	4" O.C.			16d NAILS AT 4" O.C.	5/8" DIA AT 39" O.C.		A34' AT 16" O.C.	380plf 388plf			
3	3" O.C.			16d NAILS AT 4" O.C.	5/8" DIA AT 39" O.C.		A34' AT 12" O.C. OR A35' AT 16" O.C.	490plf 515plf			
2	2" O.C.			12" O.C.	1/4"x6" SDS WOOD SCREWS AT 6" O.C.		5/8" DIA AT 16" O.C.	A34' AT 8" O.C.	640plf 772plf		
44	3x	7/16" OSB EACH SIDE OF WALL	8d	4" O.C.		3x	1/4"x6" SDS WOOD SCREWS AT 6" O.C.	5/8" DIA AT 16" O.C.	A34' AT 8" O.C.	760plf 772plf	SHEATHING IS REQ'D BOTH SIDES OF WALLS (NOTE 8)
33	3" O.C.			1/4"x6" SDS WOOD SCREWS AT 6" O.C.	5/8" DIA AT 16" O.C.		A35' AT 8" O.C.	980plf 1,042plf			
22	2" O.C.			1/4"x6" SDS WOOD SCREWS AT 4" O.C.	5/8" DIA AT 16" O.C.		L90' AT 8" O.C.	1,280plf 1,387plf			

- WOOD SHEATHING SHEARWALL NOTES:**
- USE COMMON NAILS. AT SILL PLATE USE HOT-DIPPED OR TUMBLE GALVANIZED NAILS, IN ACCORDANCE WITH IBC 2304.9.5.
  - ALL SILL PLATES TO BE PRESSURE TREATED LUMBER.
  - PROVIDE 1/4"x3/4"x0-4.1/2" (1/4" x 3" x 0-3" FOR 2x4 WALLS) WASHER PLATES AT SILL PLATE ANCHOR BOLTS WITH A DIAGONAL SLOTTED HOLE WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH OF UP TO 1.3/4". PROVIDE A STANDARD CUT WASHER BETWEEN THE PLATE WASHER AND THE NUT. EDGE OF PLATE WASHER TO BE WITHIN 1/2" OF SHEATHED EDGE OF SILL PLATE (REFERENCE SECTION A-A BELOW). FOR DOUBLE SHEATHED WALLS STAGGER PLATE WASHERS TO BE WITHIN 1/2" OF EACH SHEATHING EDGE OF SILL PLATE (REFERENCE SECTION B-B BELOW).
  - ANCHOR BOLTS SHALL HAVE A 7" MINIMUM EMBEDMENT INTO CONCRETE AND TERMINATE WITH A STANDARD 90° HOOK OF 3-TIMES THE ANCHOR BOLT DIAMETER AND BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH IBC 2304.9.5.
  - ANCHOR BOLTS MAY BE REPLACED WITH POST-INSTALLED ADHESIVE ANCHORS, POST-INSTALLED DRILL-IN MECHANICAL ANCHORS (EXPANSION BOLTS), OR POST-INSTALLED SCREW ANCHORS. REFER TO GENERAL STRUCTURAL NOTES FOR ACCEPTABLE PRODUCTS. POST-INSTALLED ANCHORS SHALL BE INSTALLED TO SAME DIAMETER AND DEPTH REQUIREMENT AS CAST-IN-PLACE BOLTS.
  - WHERE STUDS ARE CUT FOR PLACEMENT OF ANCHOR BOLTS OR OTHER ELEMENTS, AN ADJACENT STUD SHALL BE ADDED.
  - CONTRACTOR HAS OPTION TO ORIENT BLOCKING WITH WIDE FACE VERTICAL IN WHICH CASE 2x4 BLOCKING IS SUFFICIENT FOR ALL WALLS. PROVIDE BLOCK ON BOTH SIDES OF WALL IN CASES WHERE WALL IS SHEATHED BOTH SIDES.
  - WHERE WOOD SHEATHING IS APPLIED TO BOTH SIDES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBER SHALL BE 3" OR THICKER AND NAILS ON EITHER SIDE SHALL BE STAGGERED.
  - CONTRACTOR HAS OPTION TO ELIMINATE RIM BOARD FASTENERS FOR SINGLE SHEATHED SHEARWALLS PROVIDED SHEATHING EDGE FROM SHEARWALL ABOVE AND BELOW OCCURS AT MIDLEVEL OF RIM BOARD AND NAILED WITH REQUIRED EDGE NAIL SPACING AS SCHEDULED.
  - AT PARTY WALLS, PROVIDE DOUBLE SHEATHING ON ONE WALL ONLY AND NOT (1) SHEATHING ON BOTH WALLS. HOLDOWN MUST BE LOCATED ON SHEATHED WALL.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



**6 WOOD SHEATHING SHEARWALL SCHEDULE [WOOD SHEATHING VERTICAL ORIENTATION] [ELEVATION VIEW]**  
NO SCALE

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SALT LAKE CITY UT 84103  
255 SOUTH 300 WEST  
795 NORTH 400 WEST

JSSD ADMINISTRATION BUILDING  
5780 NORTH, OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANVILLE SPECIAL SERVICE DISTRICT

MARK	DESCRIPTION
1	STRUCTURAL ADDENDUM

DATE: 11/02/18  
PROJECT #: 180608  
DRAWN BY: DJC  
CHECKED BY: DP  
ISSUED: 11.02.18



**bhb STRUCTURAL**  
2766 S Main Street  
Salt Lake City, Utah 84115  
801.355.5656  
bhb@bhbengineers.com

SCHEDULES

S-603

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GENERAL MECHANICAL NOTES

- Contractor is responsible for all permits, licenses, fees, and charges as required by authority having jurisdiction for the performance of the work as outlined in these contract documents.
- The contractor shall be responsible for installing a complete and functional system in accordance to the intent of the plans and written specifications.
- All plumbing shall be in accordance with the local regulations and the International Plumbing Code of 2015.
- Contractor to coordinate work with other disciplines.
- Drawing is diagrammatic and is not to be scaled. Refer to architectural plans or field measurements for dimensions.
- Contractor shall verify all existing construction prior to submitting his bid. No extras will be paid due to unanticipated existing conditions.
- Coordinate all roof and wall penetrations required with the general contractor. Provide all flashings, sleeves, curbs, reinforcing angles, supporting frames, etc. which is required unless called out to be furnished by others.
- Contractor to provide submittal to Engineer for review prior to acquiring equipment as soon as possible after contract award. Equals will require review from engineer and owner for quality and performance against items specified. All control devices shall be included with submittals. Equipment and fixture substitutions that are not listed on these contract documents shall not be allowed without the prior written approval of the owner.
- Extra charges - any discrepancies and omissions discovered shall be reported to the engineer immediately and prior to tender closing for rectification by addendum.
- The proper performance of the control system is the responsibility of the contractor.
- Shop drawings - submit 1 copy in pdf format to the engineer for approval. Provide 2 printed copies of reviewed shop drawings to owner in 2 O&M manuals within 90 days of acceptance. The contractor shall ensure that equals for the major equipment fit in the allocated space and meet codes and specifications.
- Upon completion contractor shall prepare a set of as-built drawings in AutoCAD/Revit format and provide pdf printouts for review by engineer.
- Maintenance manuals - contractor shall provide 2 copies complete with shop drawings. Three ringer binder style is acceptable. Provide on-site operating seminar to familiarize owner with all functions of new equipment. Submit maintenance manuals within 90 days of project acceptance.
- As-built drawings - mechanical contractor shall keep on site an extra set of drawings and specifications on which changes shall be noted daily. As-built drawings shall also be provided showing location of access doors, clean-outs, and any deviation from design drawings. Submit as-built drawings within 90 days of project acceptance.
- Warranty - mechanical contractor shall provide written warranty on his system for one full year from time of acceptance by the owner.
- Structural - misc. Steel support hangers for unit heaters, fans, heat pumps, etc. Shall be by the mechanical with clamps to structure, not welded. Structural reinforcing for equipment is by general contractor.
- Electrical coordination - motor disconnect switches and starters (including magnetic starters for interlocking) shall be by electrical contractor unless otherwise specified. Disconnects for packaged makeup air units shall be by electrical contractor. Electrical contractor shall wire in low voltage and line voltage thermostats, electric heaters and control transformers provided by mechanical contractor. Mechanical contractor shall complete low voltage controls wiring. Confirm voltages on site before ordering equipment.
- Duct dimensions on plans are finished inside dimensions.
- Sleeving - mechanical contractor shall be on site to sleeve mechanical openings through concrete, to flash and counter flash and to coordinate joist locations away from mechanical shafts.
- Design documents - these design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

DUCT INSULATION NOTE

- Insulate all supply and return duct with R-6 duct insulation. Insulation must have metal jacket. All components used (insulation, jackets, mastics, adhesives, and tapes) must have flame-spread index of 25 or less, and smoke-developed index of 50 or less when tested in accordance with ASTM E 84 or 723 (be plenum rated).

LOW PRESSURE DUCT NOTE

- Provide all duct with SMACNA standards for 2" WC pressure class. Seal all transverse and longitudinal seams except for welded or locking type longitudinal joints. Pressure test duct.

PLUMBING IN RETURN AIR PLENUMS

- Treat all ceiling spaces as return air plenums.
- All materials used in return air plenums must have flame-spread index of 25 or less, and smoke-developed index of 50 or less when tested in accordance with ASTM E84 or UL 723 (be plenum rated).

MECHANICAL ALTERNATE NOTE

- Alternate mechanical equipment is acceptable. Alternates must be equal or better in performance, durability, and warranty.

HEATING AND VENTILATION NOTES

- Duct material shall be as follows unless otherwise indicated:
  - Round supply/return air: ASTM A653 Z90 Zinc coating.
  - Rectangular supply/return air: ASTM A653 Z90 Zinc coating.
  - Runouts to diffusers: spiral wound flexible galvanized spiral to SMACNA standards.
  - Exhaust duct: ASTM A653 Z90 Zinc coating.
  - Transitions shall conform to SMACNA.
  - Thickness, fabrication, reinforcement and joints to SMACNA.
  - Flex connections - provide flex connections 1/4" Duro Dyne Excelon PVC coated polyester at inlet and outlets of all forced air units.
  - Flexible duct - Thermaflex S-LP-10 insulated, M-KE insulated, maximum 10 ft connector length per air outlet.
- Duct sealer - MP water-based paste sealer must be applied to seal leaking duct connections, joints and elbows.
- Flues & Breeching
  - Combustion air - shall terminate with spill box and baffle to diffuse cold air and protect water lines.
  - Provide minimum 1" clearance from combustibles for "B" vent and 6" for single wall vent connections.
- Balancing
  - Upon completion balance air flows to values indicated. Contractor is responsible for the provision of balancing dampers, even if not indicated on the drawings. Provide an air balance report to the engineer for review. Report balancing measurements on the as-built drawings. Air and water balancing shall be at +/- 10% of specified complete with design versus actual readings.
  - Fans - supply and exhaust fans, air systems amps, rpm, cfm, suction and discharge static pressure. Grilles - supply, return and exhaust air volumes.
  - Sketch layout of duct systems showing details of balance.
- Control wiring by HVAC contractor. Final connections by HVAC contractor.
- All caulking on building penetrations shall be a 1-component non-sag urethane sealant.
- The HVAC systems shall be constructed in accordance with NFPA 101:7-2 and NFPA 90A "standard for the installation of air conditioning and ventilation systems.
- All HVAC flues and vents shall be constructed in accordance with the International Fuel Gas code of 2015.
- Fire dampers - shall be type "B", UL labeled, with damper blades fully clear of the air stream, seal with Dow Corning RTV silicone foam. Provide access door at all fire dampers.
- Provide sheet metal fire stops tight around ducts passing through fire separations and ceilings. Run to kitchen WC or dryer exhaust ducts inside party or corridor rated walls.
- Mount condensate and refrigerant lines as high as possible.

IECC CLOSE OUT REQUIREMENTS

- Contractor to provide to the owner and design engineer a preliminary commissioning report prior to final mechanical inspection.
- Contractor to provide to the owner the following items within 90 days of receiving certificate of occupancy:
  - As-Built drawings showing installed equipment.
  - Operating and maintenance manuals including routine maintenance requirements, name and address of servicing agency, narrative of controls, and recommended operating setpoints.
  - System balancing report.
  - Final commissioning report.

GENERAL NOTES

All controls supplied by mechanical. All line voltage by electrical. DC and low voltage by mechanical.

THERMOSTAT NOTES:

Provide 24/7 Programmable thermostat with minimum 4 daily setpoints and auto switchover between heating and cooling, minimum 2-stage heating and cooling capability and night setback mode. Install in thermostat in lockbox. Setback to 55 F heat and 85 F cool. Provide c/w 2 hour occupant override, 10 hour backup, 5 F deadband, and setpoint overlap restriction.

SEISMIC CONTROL NOTES

- Install tight to structure.
- Seismic control measures not to jeopardize noise and vibration isolation systems. Provide 1/4" to 3/8" clearance during normal operation of equipment and systems between seismic restraint and equipment.
- Incorporate seismic restraints into vibration isolation system to resist complete isolator unloading.

SHEET LIST - MECHANICAL

Sheet Number	Sheet Name	Current Issue	Current Revision Description
M100	MECHANICAL OVERVIEW	3	CITY REVIEW COMMENTS
M101	MAIN FLOOR MECHANICAL	3	CITY REVIEW COMMENTS
M102	MECHANICAL SCHEDULES	3	CITY REVIEW COMMENTS
M103	MECHANICAL DETAILS	3	CITY REVIEW COMMENTS

KEYNOTES

- | ID | DESCRIPTION  |
|----|--|
| 1  | TERMINATE FLUE AND COMBUSTION WITH CONCENTRIC VENT. SEE DETAILS.                           |
| 2  | WATER HEATER DIRECT VENT. TERMINATE THROUGH ROOF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. |

REVIEWED FOR CODE  
 COMPLIANCE BY  
 WASATCH COUNTY  
 APPROVED PLANS MUST  
 REMAIN ON THE JOB

- RA = RETURN AIR DUCT
- SA = SUPPLY AIR DUCT
- REA = RELIEF AIR DUCT
- OA = OUTSIDE AIR DUCT
- FLUE = MECHANICAL FLUE
- CA = COMBUSTION AIR
- T = THERMOSTAT
- S = REMOTE TEMPERATURE SENSOR

MECHANICAL LEGEND

GAS LOAD

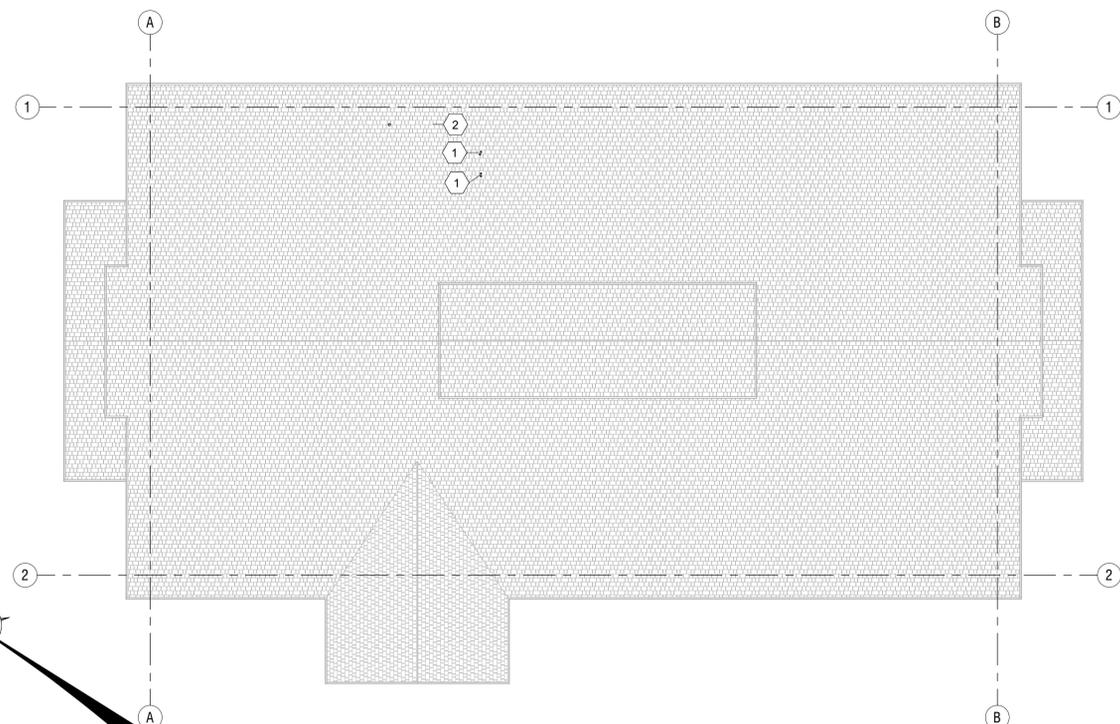
PIPE SIZING BASED ON 2015 INTERNATIONAL FUEL GAS CODE

GAS PIPING SIZED USING LONGEST MAXIMUM RUN OF EQUIVALENT LENGTH OF PIPING = 50 FT. INLET PRESSURE 2 PSI WITH 1 PSI PRESSURE DROP.

ITEM	GAS FLOW RATE (CFH)
FURNACE (F-1)	102
FURNACE (F-2)	102
DWH-1	44
Grand total: 3	248

MECHANICAL SMACNA SEISMIC HAZARD LEVEL

COMPONENT	SHL VALUE
Plumbing	D
Air Side HVAC	D
Wet Side HVAC	D
Ducts	C



3 - ROOF MECHANICAL  
1/8" = 1'-0"



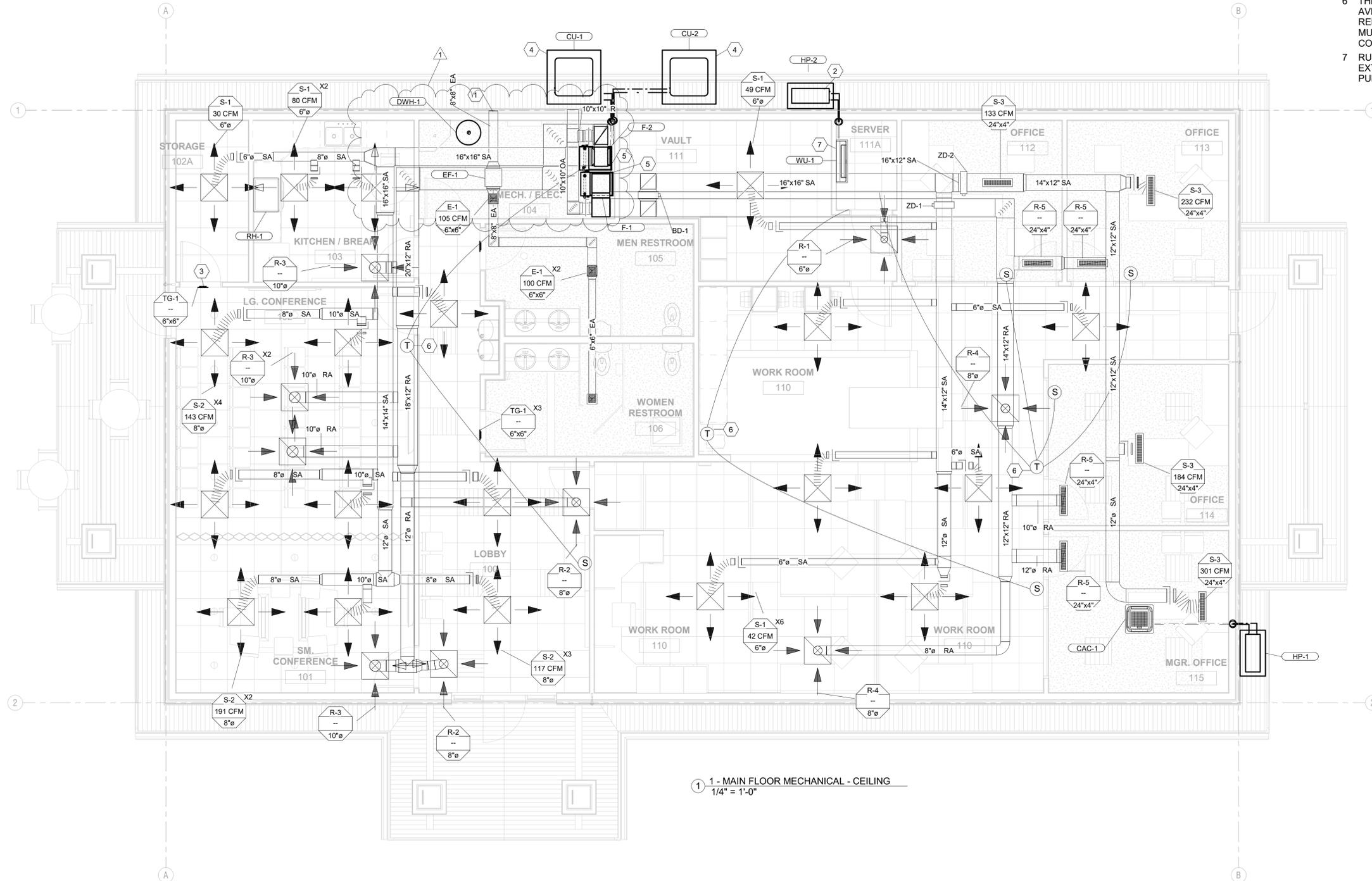
MARK	DATE	DESCRIPTION
1	10/25/18	CITY REVIEW COMMENTS
3	11/27/18	CITY REVIEW COMMENTS

PROJECT #: 818120  
 DRAWN BY: ZR  
 CHECKED BY: SS  
 ISSUED: 06-04-18

**REVIEWED FOR CODE  
COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB**

KEYNOTES

- | ID | DESCRIPTION   |
|----|---|
| 1  | DUCT EXHAUST THROUGH WALL. TERMINATE C/W RAINCAP, INSECT SCREEN, AND BACKDRAFT DAMPER.  |
| 2  | INSTALL HEAT PUMP LEVEL ON, AND SECURE TO CONCRETE PAD. RUN REFRIGERANT LINES TO FAN COIL AND CONNECT. SEE SCHEDULES FOR LINE SIZES.  |
| 3  | INSTALL TRANSFER GRILLE AT LOW LEVEL IN DOOR.   |
| 4  | INSTALL CONDENSING UNIT LEVEL ON, AND SECURE TO CONCRETE PAD. RUN REFRIGERANT LINES TO FURNACE COOLING COIL AND CONNECT.  |
| 5  | INSTALL FURNACE AS PER DETAILS. VENT FURNACE FLUE AND COMBUSTION THROUGH ROOF. TERMINATE WITH CONCENTRIC VENT. CONNECT FURNACE COOLING COIL TO REFRIGERATION LINES. RUN CONDENSATE LINES TO NEAREST FLOOR DRAIN. SEE DETAILS. |
| 6  | THERMOSTAT MUST READ TEMPERATURE AND AVERAGE TEMPERATURE WITH CONNECTED REMOTE SENSOR SHOWN. THERMOSTATS MUST TIE IN WITH LENNOX IHARMONY CONTROL SYSTEM. SEE DETAILS.  |
| 7  | RUN REFRIGERANT LINES SNUG AGAINST EXTERIOR WALL AND CONNECT TO HEAT PUMP.  |



1 - MAIN FLOOR MECHANICAL - CEILING  
1/4" = 1'-0"

**design west** | architects  
LOGAN UT 84321  
SALT LAKE CITY UT 84103  
255 SOUTH 300 WEST  
795 NORTH 400 WEST

**BRENKMAN & COMPANY**  
1770 RESEARCH PARK WAY  
SUITE 112  
LOGAN, UT 84341  
PHONE: 435-554-7771  
www.brenkmanandcompany.com



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5388 NORTH OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANVILLE SPECIAL SERVICE DISTRICT

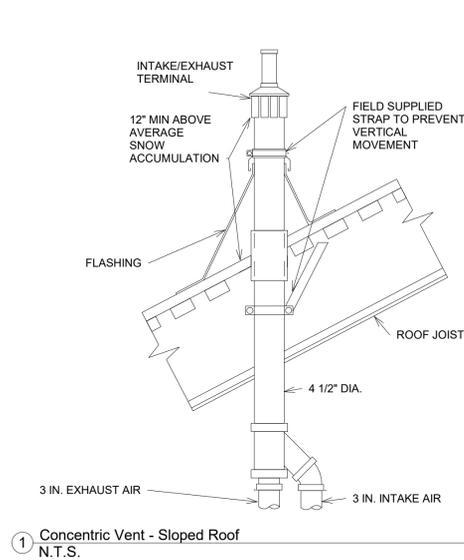
MARK	DATE	DESCRIPTION
1	10/25/18	CITY REVIEW COMMENTS
3	11/27/18	CITY REVIEW COMMENTS

PROJECT #: 818120  
DRAWN BY: ZR  
CHECKED BY: SS  
ISSUED: 06-04-18

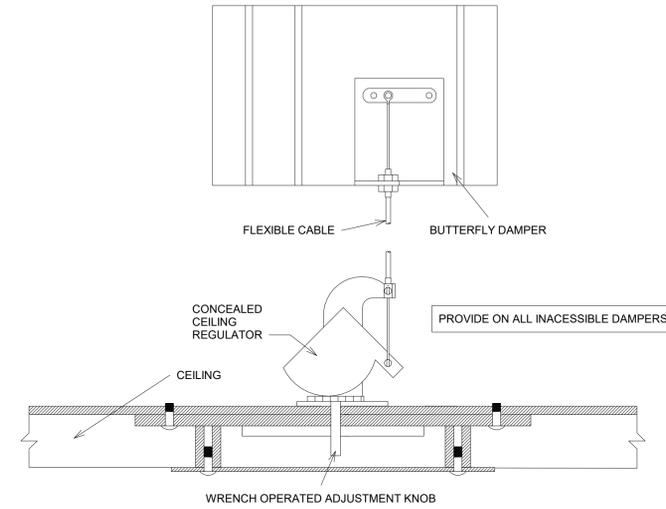
MAIN FLOOR MECHANICAL

M101  
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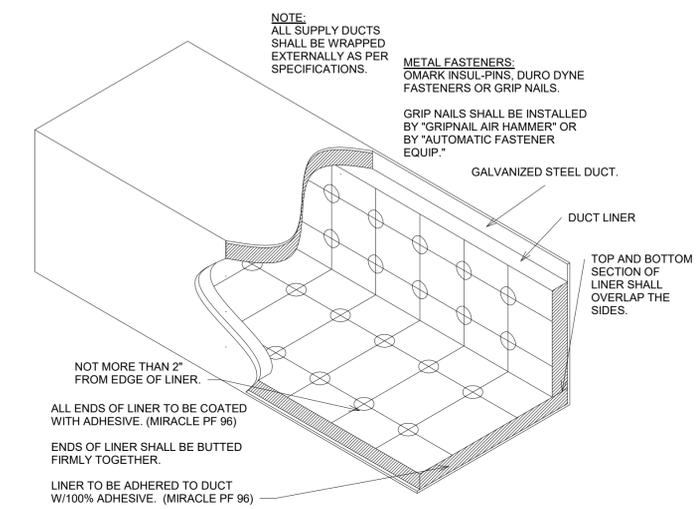
**REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB**



1 Concentric Vent - Sloped Roof N.T.S.

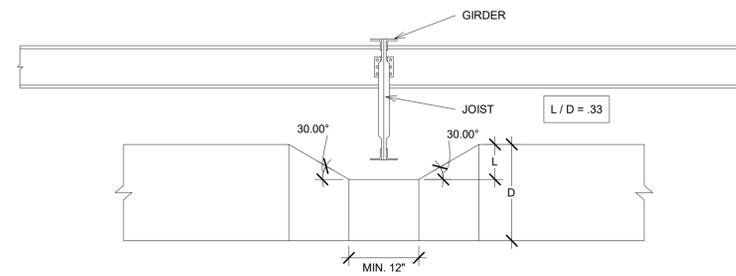


2 Duct - Inaccessible Damper N.T.S.

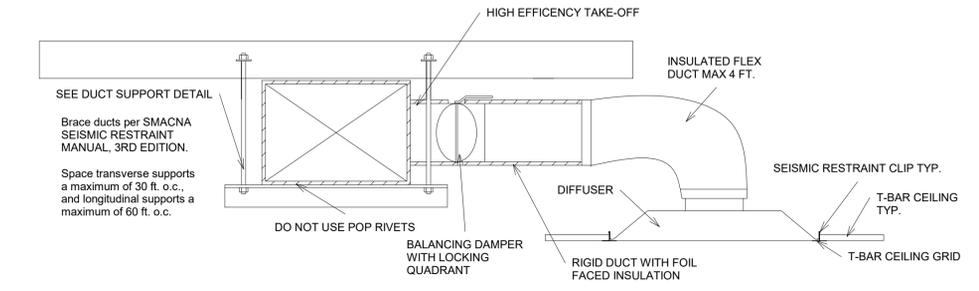


3 Duct - Liner Detail N.T.S.

AIR TERMINAL SCHEDULE					
TAG	MANUFACTURER	MODEL	SIZE	QTY	Description
E-1	Price Industries	ECG	6"x6"	3	Egg Crate Grille For Drywall Lay-in.
R-1	Price Industries	PDDR	6"ø	1	For T-Bar Lay-in.
R-2	Price Industries	PDDR	8"ø	2	For T-Bar Lay-in.
R-3	Price Industries	PDDR	10"ø	4	For T-Bar Lay-in.
R-4	Price Industries	PDDR	8"ø	2	For Surface Mount.
R-5	Price Industries	ASP Series	24"x4"	4	Custom Flow Liner. 2x 1" Slots.
S-1	Price Industries	SCD	6"ø	10	For T-Bar Lay-in.
S-2	Price Industries	SCD	8"ø	9	For T-Bar Lay-in.
S-3	Price Industries	ASP Series	24"x4"	4	Custom Flow Liner. 2x 1" Slots.
TG-1	Price Industries	STG	6"x6"	4	Door transfer grille.



4 Duct - Typical Slice Detail N.T.S.



5 Duct - Square Diffuser - T-Bar Ceiling Installation Detail N.T.S.

DUCT HEATER SCHEDULE											
Mark	Manufacturer	Model	Air Flow	Winter Design Temperature	Heat Entering Dry Bulb	Heat Leaving Dry Bulb	Size	Power	Voltage	Phase	Frequency
DH-1	INDEECO	Standard Duct Heater	437 CFM	2 °F	2 °F	30 °F	10" x 10"	1600 W	208 V	1	60 Hz

EXHAUST FAN SCHEDULE							
IDENTITY		MECHANICAL			ELECTRICAL		
Mark	Manufacturer	Model	External Static Pressure	Air Flow	Voltage	Phase	Motor Operating HP
EF-1	Greenheck	SQ-80-D	0.25 in-wg	350 CFM	115 V	1	60 W

**Duct Heater Note:**  
Provide duct heater c/w thermostat in duct. Set thermostat to control duct heater so that the leaving air temperature is 37° F. Duct heater to be continuously modulating type.

RANGE HOOD SCHEDULE				
IDENTITY		MECHANICAL		Notes
Mark	Manufacturer	Model	Air Flow	External Static Pressure
RH-1	Broan	Antero CLDA136SS	150 CFM	0.2 in-wg

HEATPUMP SCHEDULE														
IDENTITY			MECHANICAL					ELECTRICAL						
Mark	Manufacturer	Model	Cooling Capacity	Heat Capacity	SEER	HSPF	Suction Line	Liquid Connection	Voltage	Phase	Frequency	MCA	MOP	Weight
HP-1	Lennox	MPA009S4S-1P	9,000 Btu/h	10,000 Btu/h	23.5	10	3/8"	1/4"	208 V	1	60 Hz	15 A	15 A	83 lb
HP-2	Lennox	MPA009S4S-1P	9,000 Btu/h	10,000 Btu/h	19	10	3/8"	1/4"	208 V	1	60 Hz	15 A	15 A	83 lb

CASSETTE/FAN COIL SCHEDULE										
MECHANICAL					ELECTRICAL					
Mark	Manufacturer	Model	Cooling Capacity	Heat Capacity	Suction Line	Liquid Connection - Ref.	Voltage	Phase	Frequency	Power
WU-1	Lennox	MWMA009S4-2P	9,000 Btu/h	10,000 Btu/h	3/8"	1/4"	208 V	1	60 Hz	20 W
CAC-1	Lennox	M22A009S4	9,000 Btu/h	10,000 Btu/h	1/4"	1/4"	208 V	1	60 Hz	46 W

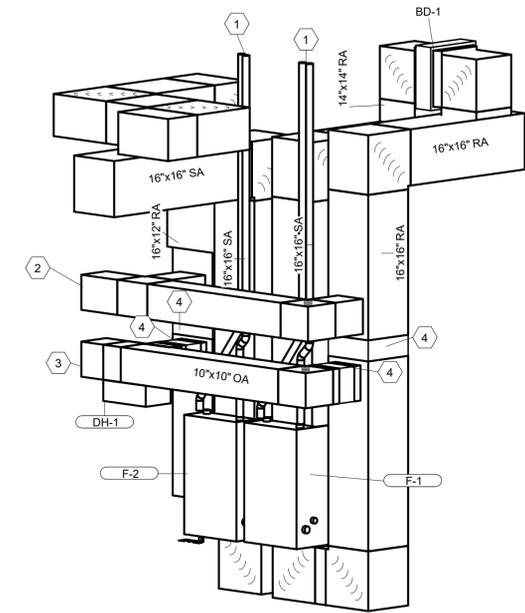
CONDENSING UNIT SCHEDULE											
Mark	Manufacturer	Model	Nominal Cooling Capacity	SEER	Suction Line	Liquid Line	Voltage	Phase	Frequency	MCA	MOP
CU-1	Lennox	13ACXN048	4	14.0	7/8"	3/8"	208 V	1	60 Hz	31.9 A	50 A
CU-2	Lennox	13ACXN048	4	14.0	7/8"	3/8"	208 V	1	60 Hz	31.9 A	50 A

FURNACE SCHEDULE																		
IDENTITY			MECHANICAL							ELECTRICAL					FUEL			
Mark	Manufacturer	Model	Supply Air	Return Air	Outside Air	Relief Air	Heat Input	Heat Load	External Static Pressure	Efficiency Rating	Cooling Capacity (Tons)	Voltage	MCA	MOP	Phase	Flue Connection	Fuel	Gas Connection
F-1	Lennox	SLP98UH090XV48C	1,600 CFM	1,600 CFM	288 CFM	132 CFM	88,000 Btu/h	30,456 Btu/h	0.34 in-wg	98.2	4	120 V	10 A	15 A	1	2"	NG	1/2"
F-2	Lennox	SLP98UH090XV48C	1,600 CFM	1,295 CFM	149 CFM	0 CFM	88,000 Btu/h	28,043 Btu/h	0.58 in-wg	98.2	4	120 V	10 A	15 A	1	2"	NG	1/2"

- KEYNOTES**
- 1 TERMINATE FLUE AND COMBUSTION WITH CONCENTRIC VENT. SEE DETAILS.
  - 2 PROVIDE C/W BACKDRAFT DAMPER, INSECT SCREEN AND RAIN CAP.
  - 3 PROVIDE C/W INSECT SCREEN, RAIN CAP, AND INTAKE LOUVER.
  - 4 BALANCING DAMPER.

**ZONE & BYPASS DAMPER NOTE:**  
DAMPERS MUST TIE IN WITH LENNOX IHARMONY CONTROL SYSTEM.

ZONE & BYPASS DAMPER SCHEDULE		
IDENTIFICATION	MECHANICAL	
Type Mark	Flow	Size
BD-1	1158 CFM	14"x14"-14"x14"
ZD-1	471 CFM	14"x12"-14"x12"
ZD-2	1158 CFM	16"x12"-16"x12"



6 MECHANICAL ROOM ISOMETRIC

**design west** | architects  
LOGAN UT 84321  
SALT LAKE CITY UT 84103  
255 SOUTH 300 WEST  
795 NORTH 400 WEST

**BRENKMAN & COMPANY**  
1770 RESEARCH PARK WAY  
SUITE 112  
LOGAN, UT 84301  
PHONE: 435-554-7771  
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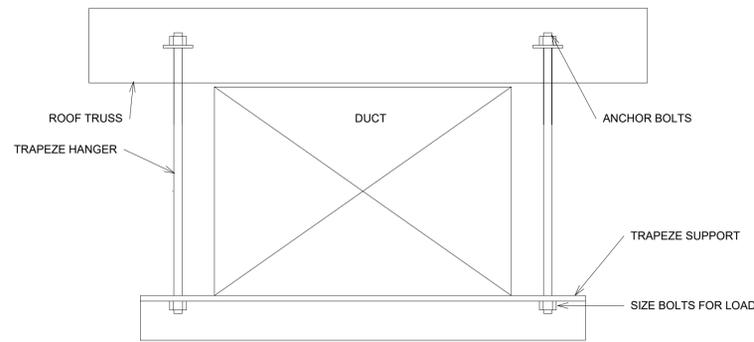


**JSSD ADMINISTRATION BUILDING**  
5388 NORTH OLD HIGHWAY 40  
HEBER CITY, UT 84032  
JORDANIELLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
3	11/27/18	CITY REVIEW COMMENTS

PROJECT #: 818120  
DRAWN BY: ZR  
CHECKED BY: SS  
ISSUED: 06-04-18

**MECHANICAL SCHEDULES**

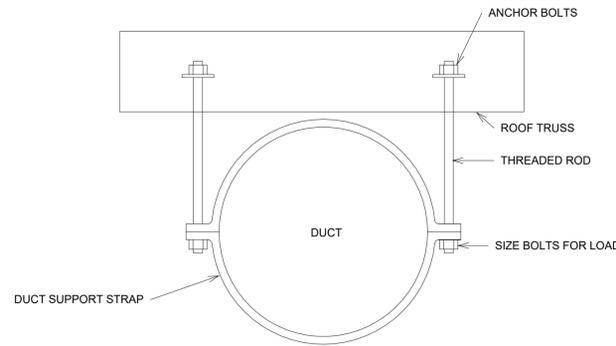


1 Duct - Close Rectangular Hanger  
N.T.S.

THIS IS A SIMPLIFIED DETAIL FOR DUCTS LESS THAN 20X20 ONLY. REFER TO SMACNA Seismic Restraint Manual for Mechanical Systems, 3RD EDITION FOR DETAILED NOTES AND DUCT SUPPORTS.

BRACE DUCTS AS PER SMACNA Seismic Restraint Manual Guidelines for Mechanical Systems, 3RD EDITION. OBTAIN SHL VALUE FROM ENGINEER.

SEE SMACNA Seismic Restraint Manual Guidelines for Mechanical Systems, 3RD EDITION FOR SPACING OF BRACES AND SEISMIC NOTES SUPPLIED WITH THESE DRAWINGS.



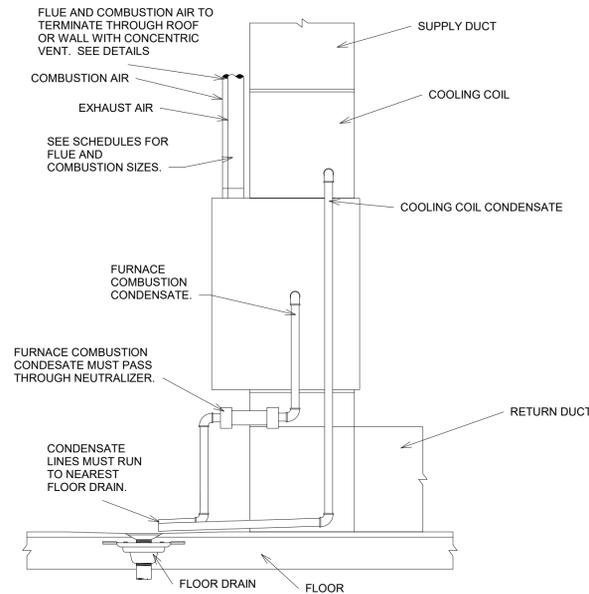
2 Duct - Close Round Hanger  
N.T.S.

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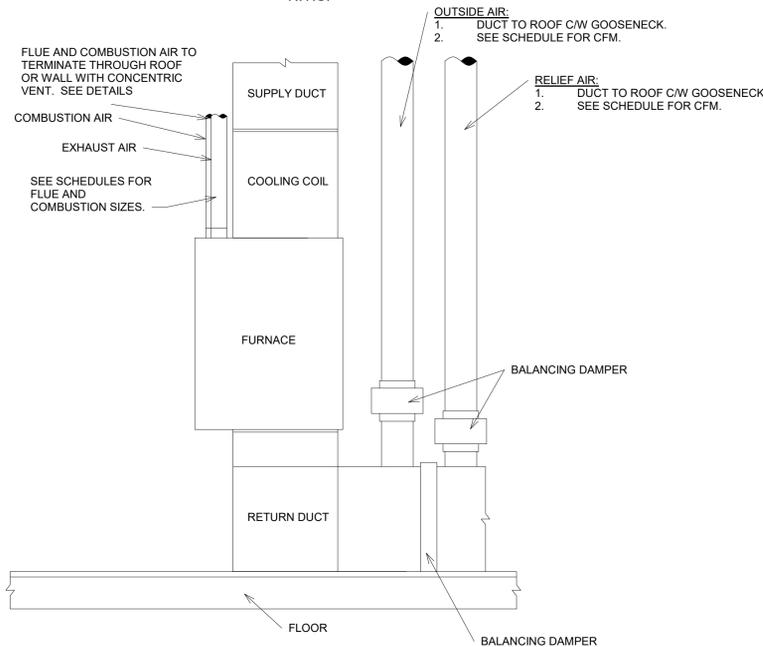
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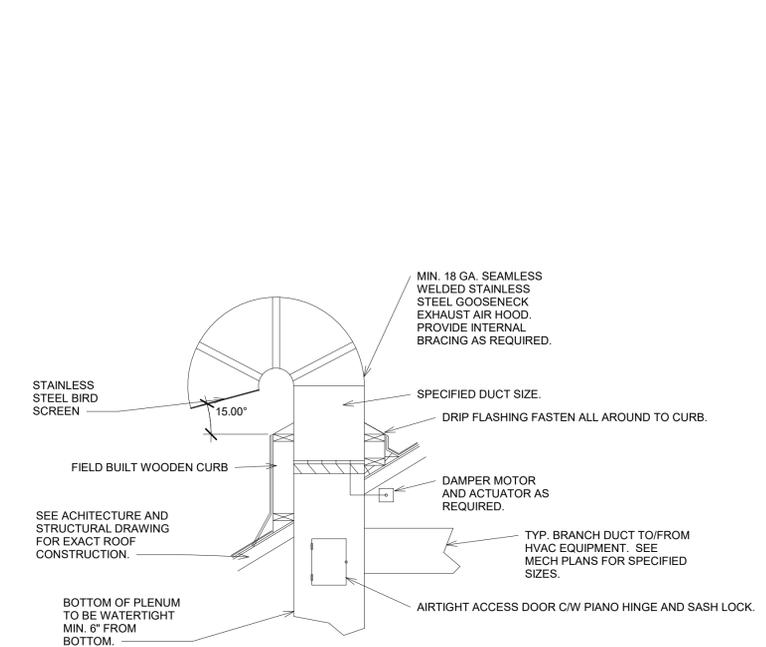
**REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB**



3 Furnace - Upflow Installation  
N.T.S.

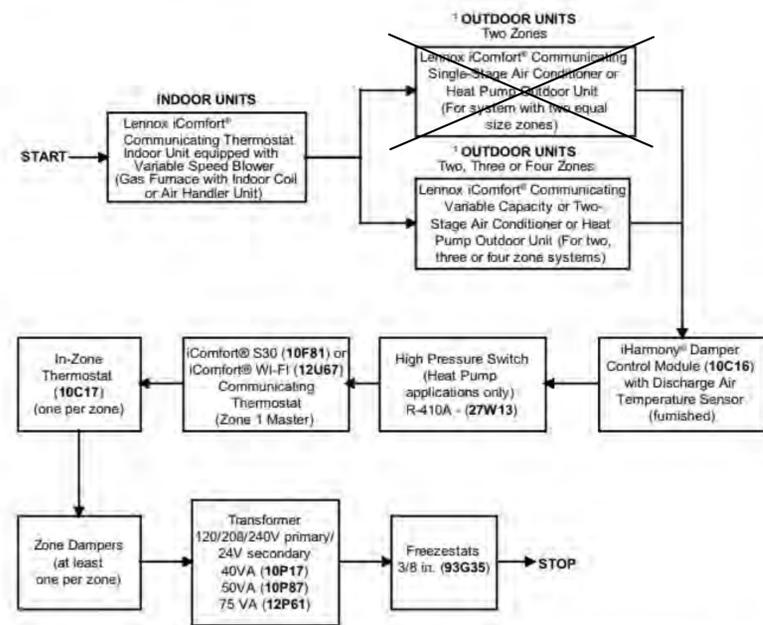


4 Furnace - Duct Installation  
N.T.S.



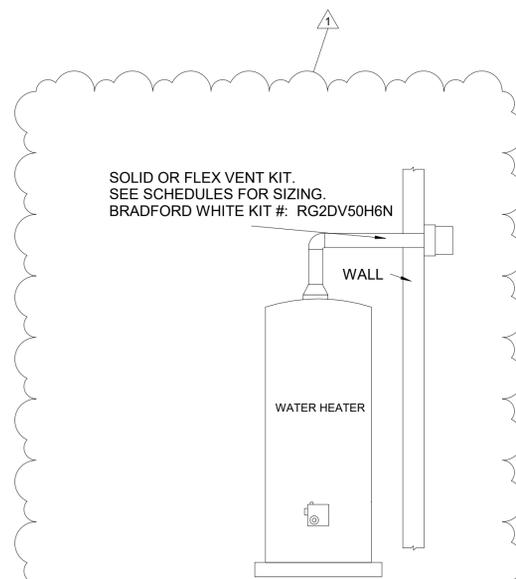
5 Gooseneck - Pitched Roof  
N.T.S.

**COMPONENT SELECTION**



A conventional, non-communicating outdoor unit may also be used as long as the indoor unit is iComfort® Communicating. NOTE - Dual Fuel Systems - Only iComfort® Communicating heat pump outdoor units may be used with a dual fuel system.

6 Lennox iHARMONY Selection - From iHARMONY Installation Manual  
N.T.S.



7 Water Heater - Solid/Flex Vent Kit  
N.T.S.



MARK	DATE	DESCRIPTION
1	10/25/18	CITY REVIEW COMMENTS
3	11/27/18	CITY REVIEW COMMENTS

PROJECT #: 818120  
DRAWN BY: ZR  
CHECKED BY: SS  
ISSUED: 06-04-18

GENERAL PLUMBING NOTES

1. GENERAL
  - a. Contractor is responsible for all permits, licenses, fees and charges as required by authority having jurisdiction for the performance of the work as outlined in these contract documents.
  - b. The contractor shall be responsible for installing a complete and functional system in accordance to the intent of the plans.
  - c. All plumbing shall be in accordance with local regulations and the International Plumbing Code of 2015.
  - d. Contractor to coordinate work with other disciplines.
  - e. Drawing is diagraphmatic and is not to be scaled. Refer to architectural plans or field measurements for dimensions.
  - f. Contractor shall verify all existing construction prior to submitting his bid. No extras will be paid due to unanticipated existing conditions.
  - g. Extra charges - any discrepancies and omissions discovered shall be reported to the engineer immediately and prior to tender closing for rectification by addendum.
  - h. Shop drawings - submit 1 copy in pdf format to the engineer for approval. Provide 2 printed copies of reviewed shop drawings to owner in 2 O&M manuals. The contractor shall ensure that equals for the major equipment fit in the allocated space and meet codes and specifications.
  - i. Maintenance manuals - contractor shall provide 2 copies complete with shop drawings. Three ringer binder style is acceptable. Provide on-site operating seminar to familiarize owner with all functions of new equipment
  - j. Warranty - mechanical contractor shall provide written warranty on his system for one full year from time of acceptance by the owner.
  - k. Excavation - plumbing contractor shall excavate for his work and back fill to i2" above pipes with sand.
  - l. Structural - Misc. Steel support hangers for unit heaters, fans, heat pumps, etc. Shall be by the mechanical with clamps to structure, not welded. Structural reinforcing for equipment is by general contractor.
  - m. As-built drawings - mechanical contractor shall keep on site an extra set of drawings and specifications on which changes shall be noted daily. As-built drawings shall also be provided showing location of access doors, clean-outs, and any deviation from design drawings.
  - n. Potable water copper piping shall use lead-free solder. testing inside water lines shall hold 100 psi air for 1 hour.
  - o. Natural gas - plumber shall provide low pressure gas lines to appliances complete with yellow paint coating on pipe where exposed to outdoors. Confirm meter size with local gas utility company. Utility upgrade costs to be borne by owner.
  - p. Plumbing contractor shall be on site to sleeve Plumbing openings through concrete, to flash and counter flash and to coordinate joist locations away from mechanical shafts.
  - q. Design documents - these design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.
  - r. The written book specification takes precedence over these notes.

GENERAL PLUMBING FIXTURE NOTES

1. All plumbing fixtures shall be furnished c/w necessary traps, stops, tailpieces, trim, etc.
2. Plumbing contractor to supply and coordinate all plumbing fixture voltage and power requirements with electrical contractor.
3. All water heaters and hot water storage tanks shall have a drain valve installed at the bottom of the tank as required by code. All water heaters shall be seismically anchored as per code.
4. Provide sanitary venting piping for all fixtures.

IECC CLOSE OUT REQUIREMENTS

1. Contractor to provide to the owner and design engineer a preliminary commissioning report prior to final mechanical inspection.
2. Contractor to provide to the owner the following items within 90 days of receiving certificate of occupancy.
  - A. As-Built drawings showing installed equipment.
  - B. Operating and maintenance manuals including routine maintenance requirements, name and address of servicing agency, narrative of controls, and recommended operating setpoints.
  - C. System balancing report.
  - D. Final commissioning report.

GENERAL SANITARY NOTES

1. Provide chrome escutcheon cover plates at all pipe penetrations of finished wall surfaces.
2. Vents through roof shall be min. 3" diameter at penetration unless otherwise indicated. Provide all required flashing to make vent penetration waterproof.
3. Space floor cleanouts no more than 100ft. Provide floor cleanouts in horizontal drains where the direction change by more than 45 degrees. Cleanout size shall be the same than the piping served.
4. Provide a trap guard for all floor drains.
5. Mount wall cleanouts at all wall mounted plumbing fixture drains.

GENERAL PLUMBING PROTECTION NOTES

1. Install backflow preventers in each water supply to mechanical equipment and systems and to other equipment and systems and to other equipment and water systems that may be sources of contamination. Comply with authorities having jurisdiction.
2. Locate backflow preventers in same room as connected equipment or system.
3. Install drain for backflow preventers with atmospheric-vent drain connection with air-gap fitting, fixed air-gap fitting, or equivalent positive pipe separation of at least two pipe diameters in drain piping and pipe-to-floor drain. Locate air-gap device attached to or under backflow preventer. Simple air breaks are unacceptable for this application.
4. Do not install bypass piping around backflow preventers.
5. Provide water pressure regulator when required by authority having jurisdiction and in compliance with the International Plumbing Code of 2015.

GENERAL PIPING NOTES

1. Piping material shall be as follows (Unless otherwise indicated in specification):
  - a. Underground water service: PEX-AL-HDPE with oxygen barrier.
  - b. Above ground hot and cold water piping: Copper type L in exposed areas or Standard PEX in concealed areas.
  - c. Drain waste and vent piping: ABS DR22.
  - d. Gas piping: to ASTM A106 schedule 40.
2. Domestic hot, cold water lines and hydronic heating lines shall have 1" thermal insulation complete with vapor barrier, joints to be taped throughout facility. Hangers to have guides to allow for complete pipe insulation.
3. Contractor is responsible for routing water piping around zones that would be prone to freezing. The contractor will be responsible for any repairs and corrections to water lines not appropriately routed around freeze prone zones.
4. Valves on water lines shall be bronze ball valves. Do not use gate or globe valves. Valve size shall be the same than the inlet pipe size.
5. Install water hammer arrestors as indicated by code and where shown on plans. Concealed location arrestors are to be rated.
6. All hot and cold domestic water lines to fixtures shall be minimum 1/2".
7. Unless a hot water reticulation system has been called for in the contract documents, domestic hot water lines shall be equipped with a heat-trace heating system in compliance with Table C404.5.1 of the current state approved International Energy Conservation Code.
8. Plumbing piping shall not be installed above electrical panels. Provide required clearances per "N.E.C." coordinate work with electrical contractor.
9. Insulate all above grade domestic hot water lines minimum 1/2" mineral wool and provide canvas jacket.
10. Caulk all pipe penetrations through fire rated walls. All caulking on building penetrations shall be a 1-component non-sag urethane sealant.
11. Provide intumescent pipe donuts at all penetrations of combustible piping form main floor ceiling space and main floor fire separations.

PLUMBING ALTERNATE NOTE

1. Alternate mechanical equipment is acceptable. Alternates must be equal or better in performance, durability, and warranty.

PLUMBING IN RETURN AIR PLENUMS

1. Treat all ceiling spaces as return air plenums.
2. All materials used in return air plenums must have flame-spread index of 25 or less, and smoke-developed index of 50 or less when tested in accordance with ASTM E84 or UL 723 (be plenum rated).

GAS APPLIANCES AND REGULATIONS NOTES

1. All gas piping shall comply with the international Fuel Gas Code of 2015.
2. Provide step-down regulators at all appliances and size as per International Fuel Gas Code of 2015.
3. Vent natural gas regulators to outdoors. Terminate min. 3 ft from building openings and 10ft from mechanical intakes.

SEISMIC CONTROL NOTES

1. Install tight to structure.
2. Seismic control measures not to jeopardize noise and vibration isolation systems. Provide 1/4" to 3/8" clearance during normal operation of equipment and systems between seismic restraint and equipment.
3. Incorporate seismic restraints into vibration isolation system to resist complete isolator unloading.

- (G) = GAS METER
- (C) = WALL CLEANOUT
- (V) = BALL VALVE
- (P) = PLUG VALVE
- (R) = PRESSURE REGULATOR
- DCW = DOMESTIC COLD WATER
- DHW = DOMESTIC HOT WATER
- DHWR = DOMESTIC HOT WATER RECIRCULATION
- SAN = SANITARY
- V = VENT
- S = STORM
- SH = NON-POTTABLE SHOP COLD WATER
- AIR = AIR LINE
- GR-SAN = GREASE SANITARY LINE

PLUMBING LEGEND

HOT WATER RECIRCULATION NOTE

1. THIS BUILDING IS DESIGNED WITH A HOT WATER RECIRCULATION SYSTEM. THIS SYSTEM DOES NOT COVER ALL EXTREMITIES OF THE DHW DISTRIBUTION SYSTEM. CONTRACTOR TO INCLUDE HEAT TRACE IN ACCORDANCE WITH SECTION C404.5 OF IECC 2015. HEAT TRACE SHALL HAVE A REGULATION CONTROL.
2. BOTH HEAT TRACE SUB-SYSTEM AND THE HOT WATER RECIRCULATION SYSTEM SHALL HAVE CONTROLS IN COMPLIANCE WITH SECTION C404.6 OF THE IECC 2015.

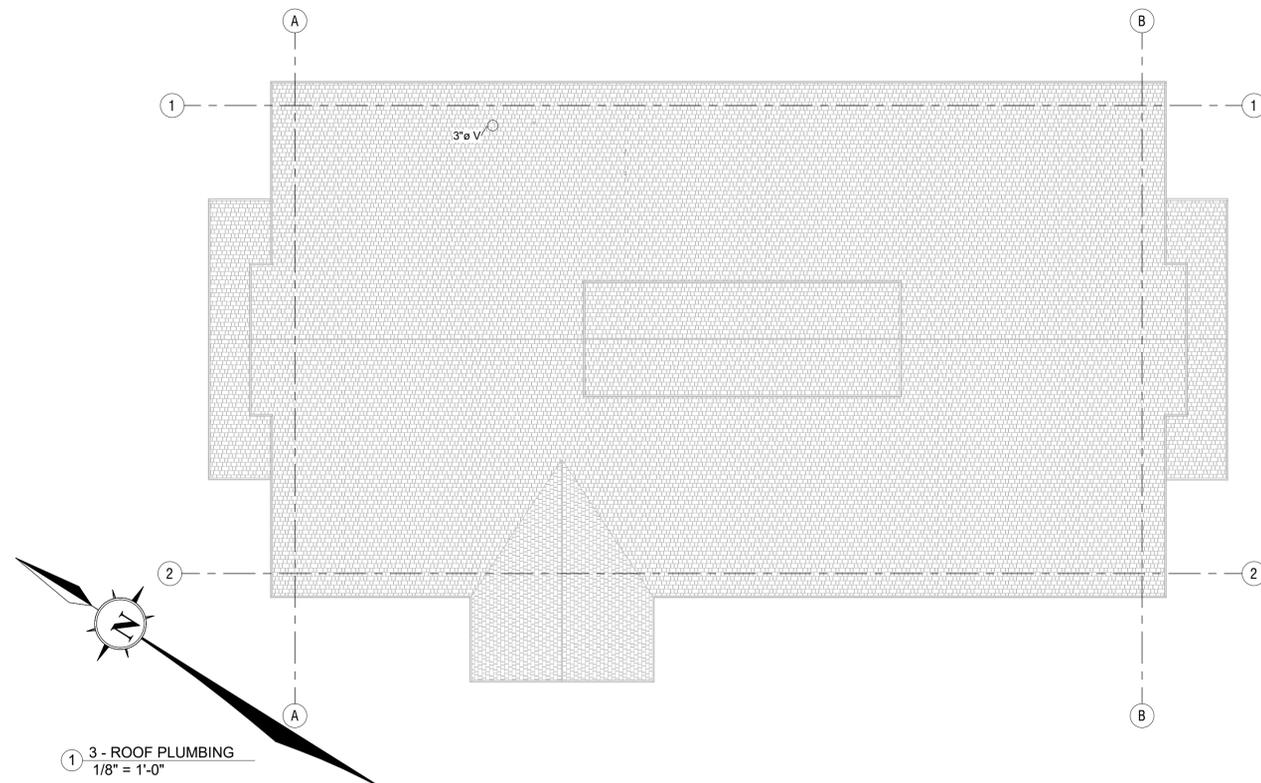
SHEET LIST - PLUMBING

Sheet Number	Sheet Name	Current Issue	Current Revision Description
P100	PLUMBING OVERVIEW	3	CITY REVIEW COMMENTS
P101	MAIN FLOOR PLUMBING	3	CITY REVIEW COMMENTS
P102	PLUMBING ISOMETRICS	3	CITY REVIEW COMMENTS
P103	PLUMBING SCHEDULES	3	CITY REVIEW COMMENTS

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COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB**

PLUMBING SMACNA SEISMIC HAZARD LEVEL	
COMPONENT	SHL VALUE
Plumbing	D

GAS LOAD	
PIPE SIZING BASED ON 2015 INTERNATIONAL FUEL GAS CODE	
GAS PIPING SIZED USING LONGEST MAXIMUM RUN OF EQUIVALENT LENGTH OF PIPING = 50 FT. INLET PRESSURE 2 PSI WITH 1 PSI PRESSURE DROP.	
ITEM	GAS FLOW RATE (CFH)
FURNACE (F-1)	102
FURNACE (F-2)	102
DWH-1	44
Grand total: 3	248



**JSSD ADMINISTRATION BUILDING**  
 5388 NORTH OLD HIGHWAY 40  
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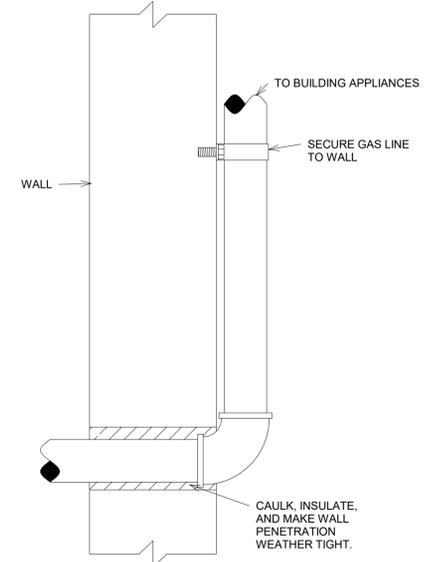
MARK	DATE	DESCRIPTION
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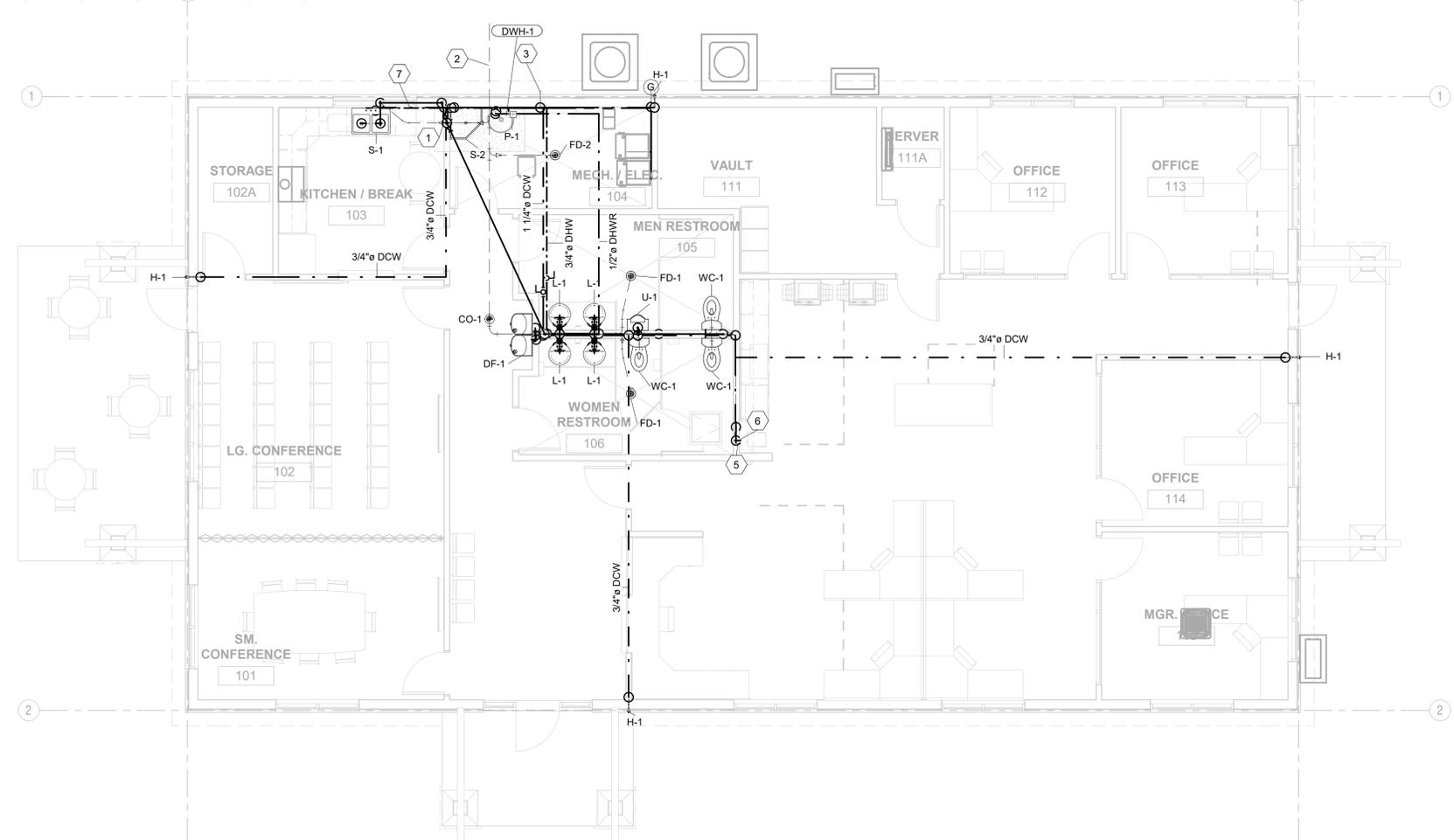
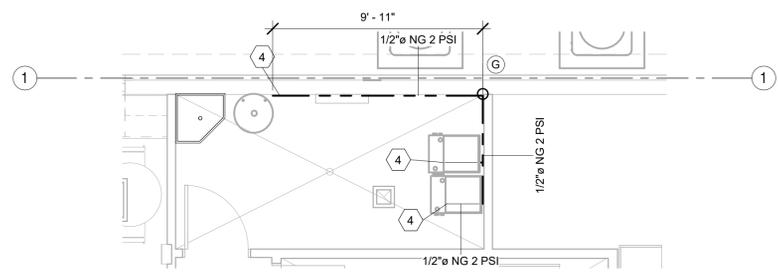
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KEYNOTES

ID	DESCRIPTION
1	MAIN VENT STACK. VENT TO ROOF. SEE DETAILS.
2	TIE INTO MAIN SANITARY LINE. COORDINATE WITH CIVIL.
3	CONNECT TO DCW SERVICE LINE.
4	CONNECT EQUIPMENT TO GAS. SEE DETAILS
5	INSTALL 1/2 INCH DCW LINE FOR CONNECTION TO OWNER SUPPLIED WATER COOLER.
6	INSTALL 2 INCH SANITARY CONNECTION 6" AFF FOR CONNECTION TO OWNER SUPPLIED WATER COOLER.
7	DCW/DHW MUST RUN SNUG AGAINST, AND BE SECURED TO, INSIDE WALL.



1 - GAS  
1/4" = 1'-0"



1 - MAIN FLOOR DCW/DHW PLUMBING  
3/16" = 1'-0"

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 255 SOUTH 300 WEST  
 795 NORTH 400 WEST  
 LOGAN UT 84321  
 SALT LAKE CITY UT 84103

**BRENKMAN & COMPANY**  
 1770 RESEARCH PARK WAY  
 SUITE 112  
 LOGAN, UT 84341  
 PHONE: 435-554-7771  
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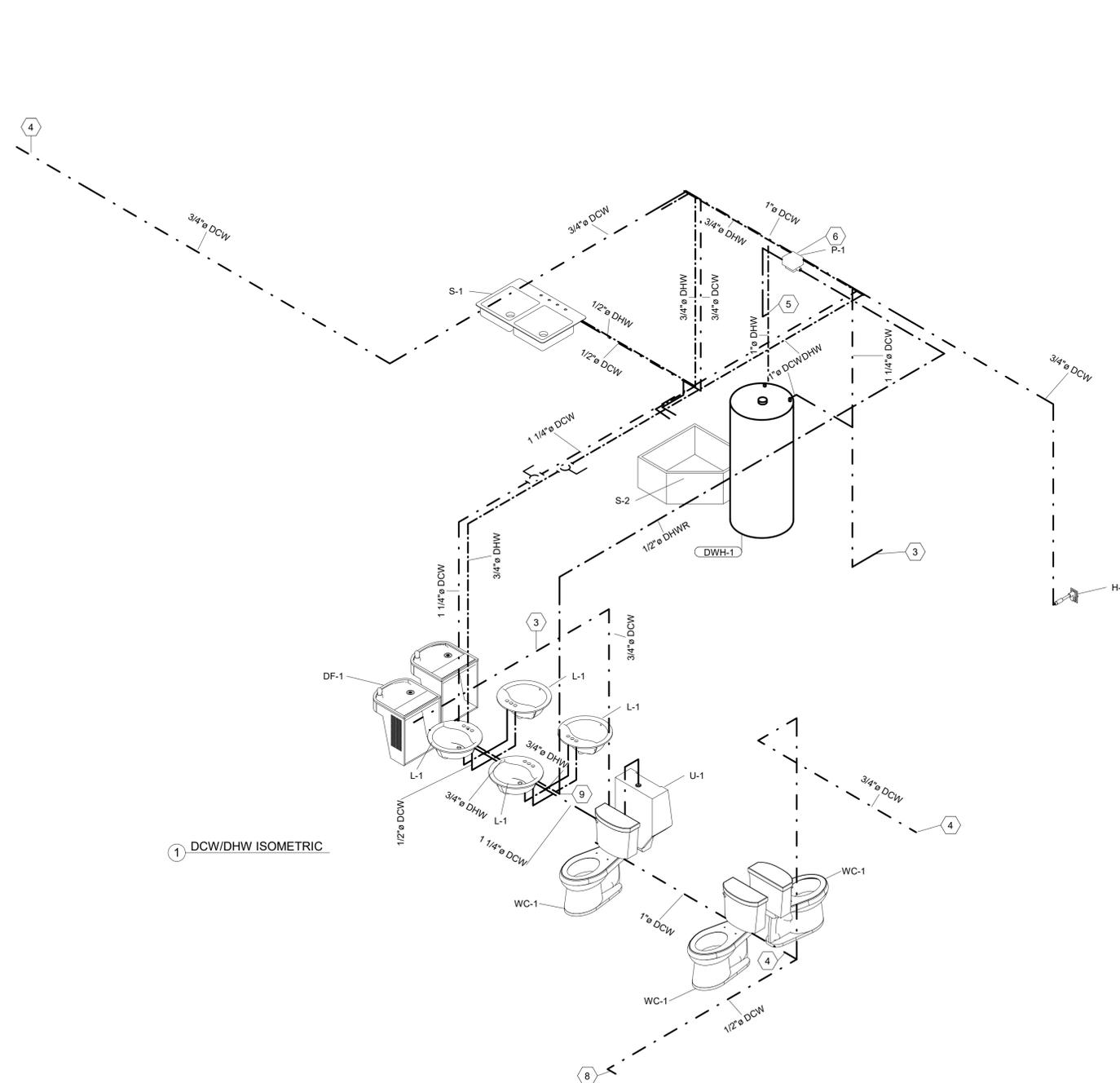
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**MAIN FLOOR  
PLUMBING**

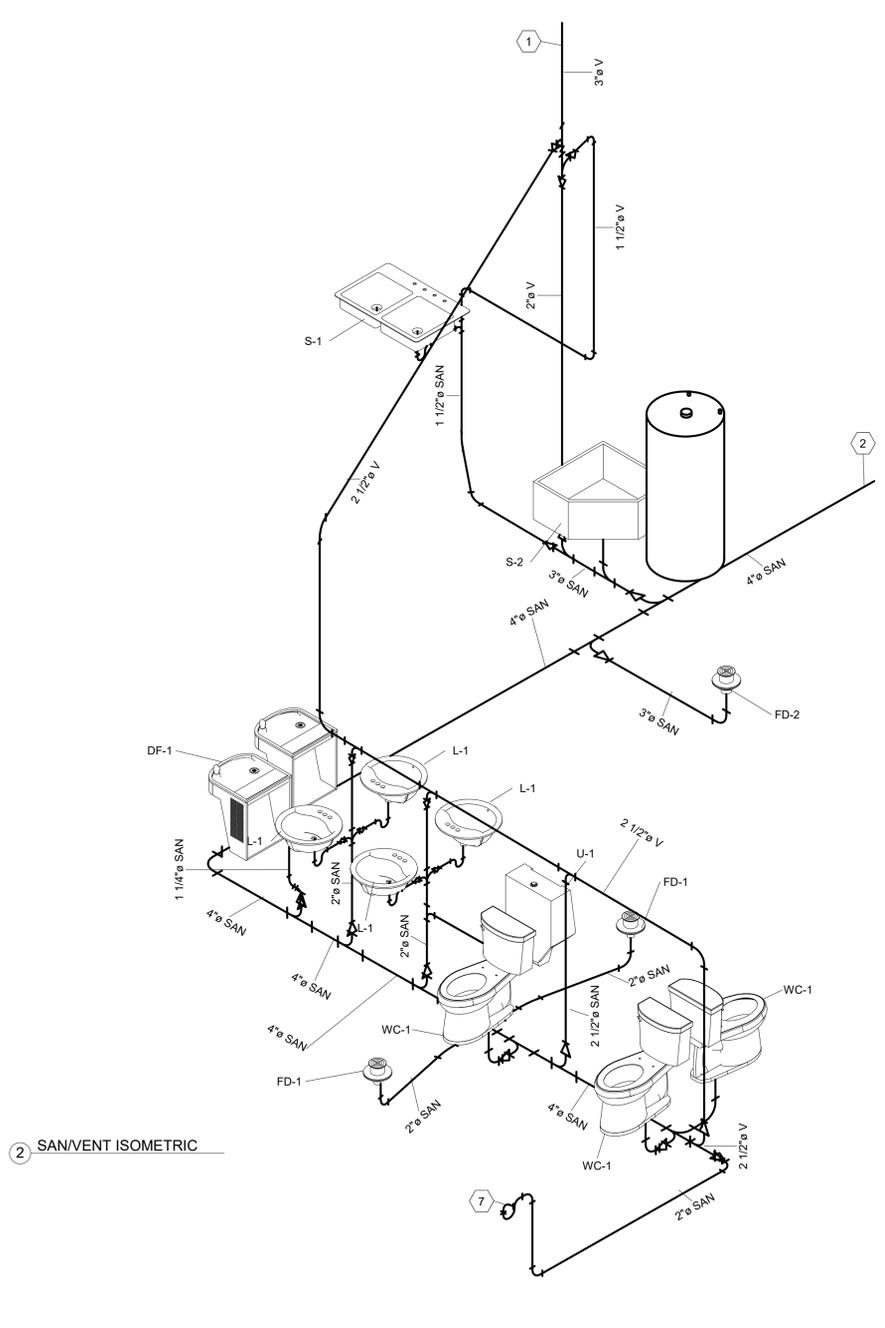
**P101**  
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APPROVED PLANS MUST  
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ID	DESCRIPTION
1	MAIN VENT STACK. VENT TO ROOF. SEE DETAILS.
2	TIE INTO MAIN SANITARY LINE. COORDINATE WITH CIVIL.
3	CONNECT TO DCW SERVICE LINE.
4	DCW TO WALL HYDRANT.
5	CONNECT DHW RECIRCULATION LINE INTO MAIN DHW LINE.
6	INSTALL RECIRCULATION PUMP ON DHW RECIRCULATION LINE.
7	INSTALL 2 INCH SANITARY CONNECTION 6" AFF FOR CONNECTION TO OWNER SUPPLIED WATER COOLER.
8	INSTALL 1/2 INCH DCW LINE FOR CONNECTION TO OWNER SUPPLIED WATER COOLER.
9	CONNECT DHW RECIRCULATION LINE INTO DHW LINE.



1 DCW/DHW ISOMETRIC



2 SAN/VENT ISOMETRIC

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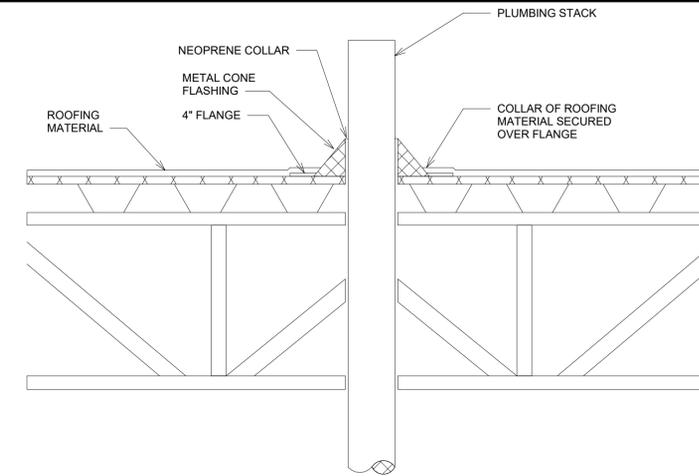
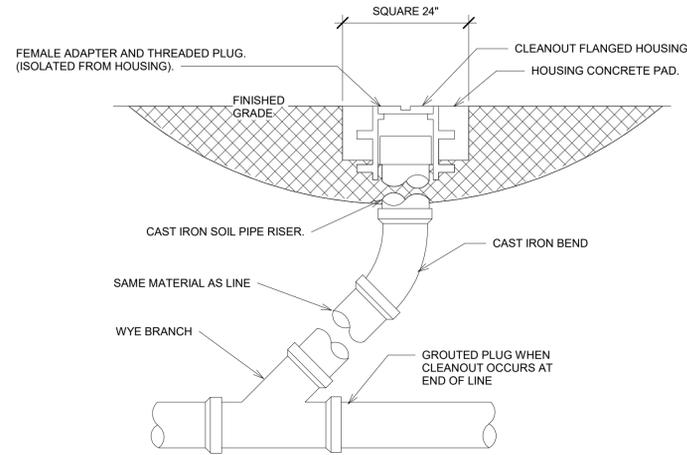
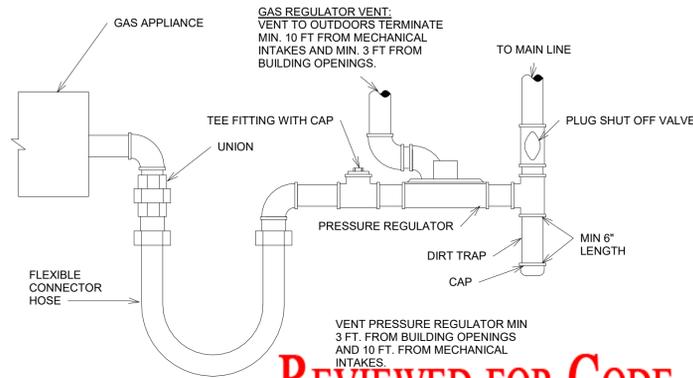


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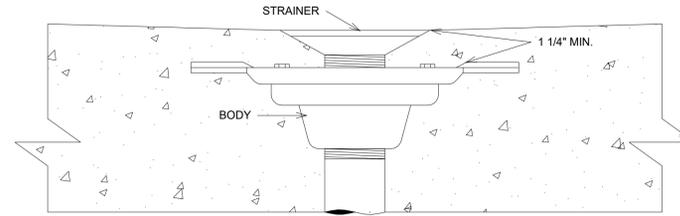
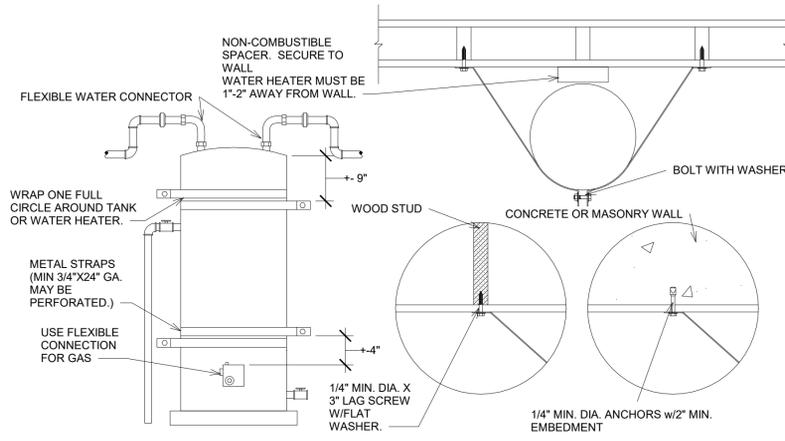
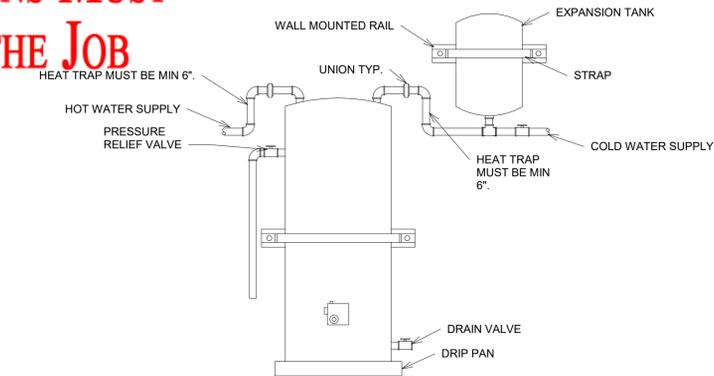
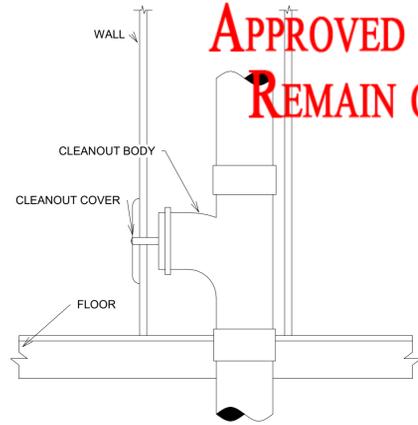
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PLUMBING ISOMETRICS



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GAS WATER HEATER SCHEDULE												
Mark	Manufacturer	Model	Gallon Capacity	Fuel	Heat Input	Voltage	Phase	DCW Connection	DHW Connection	Gas Connection	Flue Connection	Et %
DWH-1	Bradford White	RG2DV40S6N	40	NG	38,000 Btu/h	115 V	1	3/4"	3/4"	1/2"	3"	78

PLUMBING ACCESSORY SCHEDULE					
Mark	Manufacturer	Model	Description	Sanitary Connection	DCW Connection
CO-1	Watts	CO-200-R	Watts Drainage Products CO-200-R epoxy coated cast iron floor cleanout with 5-1/8 in (130mm) round adjustable nickel bronze (standard) top and no hub (MJ) connection.	3"	
FD-1	Watts	FD-230-A	Epoxy coated cast iron floor drain/cleanout combination with anchor flange, integral trap, membrane clamp with weepholes, adjustable round heel proof nickel bronze strainer & cleanout top, removable plug, and no hub outlet.	2"	
FD-2	Watts	FD-230-A	Epoxy coated cast iron floor drain/cleanout combination with anchor flange, integral trap, membrane clamp with weepholes, adjustable round heel proof nickel bronze strainer & cleanout top, removable plug, and no hub outlet.	3"	
H-1	Zurn	Z1321	Ecolotrol Ceramic Disc Wall Hydrant, Exposed, Locking, Non-Freeze, Anti-Siphon, Automatic Draining. c/w integral backflow preventer.		3/4"

RECIRCULATION PUMP SCHEDULE										
Mark	Manufacturer	Model	Flow Rate	Head	Phase	Voltage	MCA	MOP	Frequency	PUMP - NOTES
P-1	Grundfos	59896124 UP 15-18 BUC7 60 Hz	6	10' - 0"	1	120 V	1 A	1 A	60 Hz	c/w aquastat and 24-hour programmable clock/timer.

PLUMBING FIXTURE SCHEDULE												
Mark	Manufacturer	Model	Style	ADA Compliant	Material	Color	Trim	Accessories	Count	Sanitary Connection	DCW Connection	DHW Connection
DF-1	Elkay	LZSTL8WSSP	Wall Mounted - Double w/bottle filler.	Yes	Stainless	Grey		Cooling System: 115V, single phase. supplied with electrical cord and three prong plug.	1	1 1/4"	3/8"	
L-1	American Standard	0427.444EC.020	Counter Mounted	Yes	Vitreous China	White	Faucet: SF-2100-4 Electric Faucet. 0.5 gpm.	Provide c/w drain, p-trap, faucet supplies, ball isolation, and ASSE 1070 thermostatic valve - set at 100° F.	4	1 1/4"	1/2"	1/2"
S-1	Franke	ALBD7506P	Counter Mounted Double Bowl	Yes	Stainless Steel	Stainless	American Standard 7074.010.002 Colony Pro Single Handle Faucet.	Provide c/w drain, p-trap, faucet supplies, ball isolation, and ASSE 1070 thermostatic valve - set at 100 deg. F.	1	1 1/2"	1/2"	1/2"
S-2	Fiat Products	TSBC6010	Floor Mounted	n/a	Terrazzo	Grey	Gerber C4-44-654 Commercial wall mounted two handle scullery faucet, 2.2 gpm, vandal resistant levers. c/w hose.	Provide c/w drain, P-trap, faucet supplies, ASSE 1070 thermostatic valve - set to 100 deg F, and ball isolation.	1	3"	1/2"	1/2"
U-1	Kohler	K-4972-ET-0	Wall Mounted	Yes	Vitreous China	White	K-13522 Manual Flushometer		1	2"	1"	
WC-1	Kohler	K-3609	Floor Mounted, 2 piece, elongated bowl.	Yes	Vitreous China	White	Seat: K-4650-0 elongated, open front.	Provide c/w floor flange, seal, and isolation valve on supply.	3	3"	3/8"	

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255 SOUTH 300 WEST  
795 NORTH 400 WEST  
SALT LAKE CITY UT 84103

**BRENKMAN & COMPANY**  
1770 RESEARCH PARK WAY  
SUITE 112  
LOGAN, UT 84301  
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www.brenkmanandcompany.com



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PROJECT #: 818120  
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**PLUMBING SCHEDULES**

ELECTRICAL GENERAL NOTES

GENERAL NOTES:

- THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND THE SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS, AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION, OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING THEIR BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIERS SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUSIVE OF THE ORIGINAL BID. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT.
- THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS, AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
- THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES. IF AT ANY TIME DURING OR AFTER CONSTRUCTION SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES LISTED ABOVE, IT SHALL BE CORRECTED BY THE CONTRACTOR.
- ALL EQUIPMENT PROVIDED BY THE EC SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
- THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE, AND OTHER POTENTIAL OBSTRUCTIONS.
- THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
- THE EC SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" UNO. CONDUIT INSTALLED WITHIN THE BUILDING IN DRY LOCATIONS WITHIN WALL, CEILINGS, OR EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE EMT WITH STEEL SET SCREW FITTINGS. IN EXTERIOR LOCATIONS (EXCEPT FOR THE SERVICE ENTRANCE) THE CONDUIT SHALL BE EMT WITH COMPRESSION GLAND TYPE FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH. 40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
- FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEAL-TITE CONDUIT SHALL NOT BE GREATER THAN 72 INCHES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
- BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR).
- WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12 (CU THHN) + #12 (CU THHN) GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10 (CU THHN) FOR BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES, AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
- CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNO. CONDUCTORS UP TO #10AWG SHALL BE SOLID AND CONDUCTORS #8AWG OR LARGER SHALL BE STRANDED.
- METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC. UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED.
- EC SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
- IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CAULK, PUTTY, STRIP AND SHEET FORMS, DOW CORNING 3-6548 SILICONE RTV FOAM.
- COORDINATE LOCATION OF WALL MOUNTED DEVICES WITH CABINETRY AND OTHER WALL OBSTRUCTIONS. COORDINATE CEILING MOUNTED DEVICES WITH CEILING OBSTRUCTIONS. ANY DEVICES THAT NEED TO BE RELOCATED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR NEW LOCATION.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT OF ALL DEVICES INSTALLED WITHIN THE CEILING SUCH AS LIGHTING, SPEAKERS, FIRE SPRINKLERS, SMOKE/HEAT DETECTORS, ETC. ANY EXISTING DEVICES THAT NEED TO BE RELOCATED IN ORDER TO ACCOMMODATE NEW CONSTRUCTION/REMODEL MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR RESOLUTION AND FURTHER DIRECTION.
- ALL 15-20A, 120VAC RECEPTACLES INSTALLED IN AREAS WHERE ELECTRICAL DIAGNOSTIC EQUIPMENT, ELECTRICAL HAND TOOLS, OR PORTABLE LIGHTING EQUIPMENT ARE TO BE USED SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL PER NEC 511.12.

SITE NOTES:

- ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER COMPANY SERVICE TRANSFORMER BEFORE INSTALLING THE PAD, PRIMARY CONDUIT, AND SECONDARY SERVICE LATERAL. PROVIDE LABOR AND CONDUIT, CONDUCTORS, WIRE WAYS, TRANSFORMER LUGS, METER BASES, METER CONDUIT, CONDUCTORS, CONCRETE PAD/VAULT, ETC. AS NEEDED FOR A COMPLETE ELECTRIC SERVICE TO THIS FACILITY.
- THE EC SHALL COORDINATE LOCATION OF TELEPHONE PEDESTAL, ROUTING/SIZE OF TELEPHONE SERVICE CONDUIT, AND THE MAIN TELEPHONE SERVICE BOARD REQUIREMENTS WITH THE TELEPHONE COMPANY PRIOR TO ROUGH-IN. INSTALL A 3/4" CONDUIT WITH (1) #6 BARE COPPER CONDUCTOR FROM TELEPHONE TERMINAL BOARD (TTB) TO THE MAIN BUILDING GROUNDING SYSTEM.
- UNDERGROUND CONDUIT FOR SITE LIGHTING SHALL BE BURIED 24" B.F.G. AND SHALL HAVE ONE (1) #10 THHN GREEN

GROUND CONDUCTOR TO GROUND ALL LUMINAIRES.

- PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL COORDINATE WITH COMMUNICATIONS/DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (BUT STAKES), AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING PRIOR TO COMMENCING WORK. DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR.

LIGHTING NOTES:

- ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
- LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.

- ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBERS.

- TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURER, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT, AND STARTING CHARACTERISTICS FOR ALL INSTALLED.

- LIGHT FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR INSTALLATION IN THE PROPER ENVIRONMENT. CARE SHOULD BE TAKEN TO ENSURE THAT DIFFUSERS AND LENSES ARE APPROPRIATE FOR THEIR INSTALLED USE AND PREMATURE DISCOLORATION WILL NOT RESULT DUE TO EXPOSURE TO UV LIGHT, CHEMICALS, OR OTHER CONDITIONS.

POWER NOTES:

- ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.

- WIRING DEVICES SHALL BE WHITE IN COLOR WITH NYLON COVER PLATES. EXTERIOR OUTLETS SHALL HAVE CAST COVERS WITH FLIP TYPE LIDS UNO.

- THE EC SHALL MAINTAIN ELECTRICAL CONTINUITY TO REMAINING EQUIPMENT WHEN ANY EXISTING ELECTRICAL EQUIPMENT IS REMOVED.

- EC SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE EC SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE EC WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE EC'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.

- EC SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS.

- PROVIDE A 20AMP, 120VAC RECEPTACLE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT PER NEC 210.63. RECEPTACLE SHALL BE OF THE GROUND FAULT CIRCUIT INTERRUPTING TYPE, INSTALLED WITHIN A CAST METAL BOX, AND WITHIN 25' OF ALL REQUIRED EQUIPMENT.

DATE/TELECOM NOTES:

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY FOR THE TELECOM/CATV SYSTEMS. THIS SHALL CONSIST OF A FOUR SQUARE DEVICE MOUNTING BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE OR TO THE CEILING SPACE ABOVE IF OPEN. CABLING, JACKS, FACEPLATES, TESTING AND TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY OTHERS.

ROOF NOTES:

- ELECTRICAL CONTRACTOR TO INSTALL A ROOF JACK (BOOT) FOR ALL CONDUIT PENETRATIONS THROUGH THE ROOF. ALL ROOF PENETRATION SEALS SHALL BE IN ACCORDANCE WITH THE ROOF WARRANTY AND BE COMPLETELY SEALED WITH ROOF ADHESIVE. UTILIZE PROPER CLAMPING METHODS TO SEAL BOOT AROUND CONDUIT.

FIRE ALARM NOTES:

- PROVIDE AND INSTALL AN ADDRESSABLE FIRE ALARM SYSTEM TO MEET THE REQUIREMENTS OF NFPA 72, 2012 IBC/FIA, AND OTHER PERTINENT LOCAL/STATE CODES. THE SYSTEM SHALL MONITOR FLOW/TAMPER SWITCHES ON THE FIRE SPRINKLER RISER, DUCT MOUNTED SMOKE DETECTORS IN ALL AIR HANDLING EQUIPMENT OVER 2000CFM, PULL STATIONS AT EGRESS DOORS, HEAT/SMOKE DETECTORS AS SHOWN ON THE CONSTRUCTION DOCUMENTS, AND PROVIDE ELEVATOR RECALL/SHUNT TRIP WHERE APPLICABLE. THE FIRE ALARM CONTROL PANEL SHALL PROVIDE AUDIO/VISUAL ANNUNCIATION THAT THE BUILDING FIRE ALARM SYSTEM HAS ACTIVATED IN ALL COMMON SPACES AND AS OTHERWISE REQUIRED/SHOWN ON THE DRAWINGS. THE EC SHALL GENERATE FIRE ALARM SHOP DRAWINGS AND SUBMIT THEM TO THE FIRE MARSHAL AND THE ENGINEER FOR APPROVAL. SUBMISSION REQUIREMENTS SHALL CONFORM TO NFPA 72 AND THE FIRE MARSHAL. NO FIRE ALARM WORK SHALL COMMENCE IN THE BUILDING PRIOR TO RECEIPT OF APPROVED FIRE ALARM SHOP DRAWINGS FROM THE FIRE MARSHAL.

- PLENUM RATED FIRE ALARM WIRE MAY BE RUN EXPOSED ABOVE ACCESSIBLE CEILING SPACES AND WHERE CONCEALED IN WALLS. ALL FIRE ALARM WIRING MUST BE IN 3/4" EMT CONDUIT WHERE IT IS NOT POSSIBLE TO CONCEAL IN WALLS OR CEILING SPACES.

- SIGNAL LINE CIRCUIT IS TO BE CLASS A, NAC CIRCUIT IS TO BE CLASS B. T-TAPPING OF SLC CIRCUIT IS NOT PERMITTED.

- FIRE ALARM SYSTEM TO CONFORM TO CURRENT NFPA 72, 2012 IBC, AND 2012 IFC.

- INCOMING AND OUTGOING SLC WIRES ARE TO MAINTAIN A 5' SEPARATION WHERE RUNS ARE LONGER THAN 10'.

- IN ALL AREAS WHERE MORE THAN ONE FIRE ALARM STROBE IS IN SIGHT OF EACH OTHER, THEY ARE TO BE SYNCHRONIZED TO FLASH AT THE SAME RATE AND TIME. PROVIDE A SYNCHRONIZATION MODULE.

- IN SMALLER AREAS WHERE 15CD HORN/STROBES ARE USED, THE dB LEVEL OF THE HORN SHALL BE TURNED DOWN TO 15dB ABOVE AMBIENT NOISE LEVEL. SEE NFPA 72 TABLE A.7.4.2 FOR AVERAGE AMBIENT SOUND LEVELS.

- FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED/SEALED BY A PROFESSIONAL FIRE PROTECTION ENGINEER REGISTERED IN THE STATE OF UTAH.

- IN THE EVENT THAT MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, ALL WORK IN THE AREA WILL STOP AND THE ARCHITECT WILL BE CONTACTED IMMEDIATELY FOR DIRECTION.

- ALL EXISTING FIRE ALARM DEVICES ARE TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL THE NEW SYSTEM IS WORKING PROPERLY. IN THE CASE WHERE AN EXISTING FIRE ALARM DEVICE IS IN DIRECT CONFLICT WITH A NEW DEVICE, THE EXISTING DEVICE IS TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL FINAL TEST WHEN IT CAN BE REMOVED AND THE NEW DEVICE CAN BE PLACED IN ITS LOCATION. ONCE THE NEW SYSTEM IS OPERATING PROPERLY, ALL EXISTING FIRE ALARM DEVICES ARE TO BE REMOVED AND HOLES PATCHED.

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	NOTES
	LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - WALL MOUNTED	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL MOUNTED	WALL	1, 2
	LIGHT FIXTURE - DOWNLIGHT	CEILING	1
	EMERGENCY LIGHT FIXTURE - DOWNLIGHT	CEILING	1, 2
	LIGHT FIXTURE - WALL WASH DOWNLIGHT	CEILING	1
	LIGHT FIXTURE - CEILING MOUNTED	CEILING	1
	LIGHT FIXTURE - PENDANT/CHANDELIER	CEILING	1
	LIGHT FIXTURE - WALL BRACKET	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL BRACKET	WALL	1, 2
	LIGHT TRACK WITH FIXTURES	SURFACE	1
	EXIT FIXTURE - WALL MOUNT	WALL	1, 2, 3
	EXIT FIXTURE - CEILING MOUNT	CEILING	1, 2, 3
	EXIT FIXTURE W/ EMERGENCY HEADS - WALL MOUNT	WALL	1, 2, 3
	EXIT FIXTURE W/ EMERGENCY HEADS - CEILING MOUNT	CEILING	1, 2, 3
	DUAL HEAD EMERGENCY LIGHT FIXTURE	WALL	1, 2
	AREA LIGHT FIXTURE - POLE MOUNTED	POLE	1
	OCCUPANCY SENSOR - CEILING MOUNT	CEILING	1
	PHOTO-ELECTRIC CELL WITH RELAY	SURFACE	1
	LIGHTING RELAY/POWER PACK	SURFACE	1
	TIME CLOCK - 7 DAY	5' - 0"	
	WALL OCCUPANCY SENSOR SWITCH	4' - 0"	
	SINGLE POLE SWITCH	4' - 0"	
	DOUBLE POLE SWITCH	4' - 0"	
	THREE WAY SWITCH	4' - 0"	
	FOUR WAY SWITCH	4' - 0"	
	DIMMER SWITCH	4' - 0"	
	LOW VOLTAGE SWITCH	4' - 0"	
	THERMAL OVERLOAD SWITCH	4' - 0" UNO	
	PILOT LIGHT SWITCH	4' - 0"	
	DUPLEX OUTLET, 20A, 120VAC	1' - 6" UNO	
	DUPLEX OUTLET, 20A, 120VAC - GFCI	4' - 0" UNO	
	DUPLEX OUTLET - SPLIT WIRED	4' - 0" UNO	
	DUPLEX OUTLET - ISOLATED GROUND	4' - 0" UNO	
	DUPLEX OUTLET WITH USB PORTS	4' - 0" UNO	
	DUPLEX OUTLET - OCCUPANCY SENSOR CONTROLLED	4' - 0" UNO	
	DUPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	DUPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	FOURPLEX OUTLET, 20A, 120VAC	4' - 0" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - GFCI	4' - 0" UNO	
	FOURPLEX OUTLET - ISOLATED GROUND	4' - 0" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	FOURPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	APPLIANCE OUTLET - 208/240V SINGLE PHASE	18" OR 48"	
	APPLIANCE OUTLET - 208/480V 3-PHASE	18" OR 48"	
	DATA OUTLET	4' - 0" UNO	
	TELEPHONE OUTLET	4' - 0" UNO	
	DUAL TELEPHONE/DATA OUTLET	4' - 0" UNO	
	DATA OUTLET - FLOOR	FLOOR	
	DUAL TELEPHONE/DATA OUTLET - FLOOR	FLOOR	
	CEILING DATA OUTLET/ WIRELESS ACCESS POINT	CEILING	
	CABLE TELEVISION OUTLET	4' - 0" UNO	
	JUNCTION BOX	SURFACE	
	WALL JUNCTION BOX	1' - 6" UNO	
	FLOOR JUNCTION BOX	FLOOR	
	DISCONNECT SWITCH - NON-FUSED	5' - 0" UNO	4
	DISCONNECT SWITCH - FUSED	5' - 0" UNO	4
	DISCONNECT SWITCH - SHUNT TRIP	5' - 0" UNO	4
	COMBINATION MAGNETIC STARTER/DISCONNECT	5' - 0" UNO	
	MOTOR STARTER	5' - 0" UNO	
	CONTACTOR	5' - 0" UNO	
	MOTOR	SURFACE	
	METER - PLAN VIEW	WALL	
	PUSH BUTTON SWITCH	4' - 0"	
	EMERGENCY POWER SHUTOFF SWITCH	4' - 0"	
	PANELBOARD - SURFACE MOUNTED	6' - 6" TO TOP	
	PANELBOARD - RECESSED	6' - 6" TO TOP	
	TRANSFORMER - PLAN VIEW	PAD/FLOOR	
	TELEPHONE TERMINAL BOARD	WALL	

ELECTRICAL SHEET INDEX	
E001	ELECTRICAL GENERAL SHEET
E100	SITE ELECTRICAL PLAN
E101	LIGHTING PLAN
E201	POWER PLAN
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES

	FIRE ALARM HORN	7' - 6"	
	FIRE ALARM STROBE	7' - 6"	
	FIRE ALARM HORN STROBE	7' - 6"	
	FIRE ALARM GONG	7' - 6"	
	FIRE ALARM DUAL ACTION MANUAL PULL STATION	4' - 0"	
	FIRE ALARM ADDRESSABLE CONTROL RELAY		
	FIRE ALARM MONITOR MODULE		
	FIRE ALARM CONTROL PANEL	6' - 6" TO TOP	
	FIRE ALARM ANNUNCIATOR PANEL	4' - 0"	
	PHOTOELECTRIC SMOKE DETECTOR	SURFACE	
	RATE OF RISE/HEAT DETECTOR	SURFACE	
	CARBON MONOXIDE DETECTOR	SURFACE	
	DUCT SMOKE DETECTOR	DUCT	6
	FIRE SMOKE DAMPER		
	FIRE RISER TAMPER SWITCH		
	FIRE RISER FLOW SWITCH		
	ELECTROMAGNETIC DOOR HOLDER	2' - 0"	
	SECURITY CARD READER	4' - 0"	
	SECURITY KEYPAD	4' - 0"	
	ELECTRIC STRIKE		
	SECURITY CCTV CAMERA		
	SPEAKER - CEILING		
	SPEAKER - WALL		
	MICROPHONE CONNECTION		
	VOLUME CONTROL SWITCH	4' - 0"	
	CIRCUIT BREAKER	METER - ONE-LINE	
	MLO PANEL - ONE-LINE	TRANSFORMER - ONE-LINE	
	MCB PANEL - ONE-LINE	PAD MOUNT XFMR - ONE-LINE	
	AUTOMATIC TRANSFER SWITCH	GROUND SLEEVE - ONE-LINE	
	CT ENCLOSURE - ONE-LINE	FUSED DISCONNECT - ONE-LINE	
	CURRENT TRANSFORMER	FUSED SWITCH	
	OH RISER	GROUND	
	OH RISER	CABLE/WIRE SIZE TAG	
	KEYED NOTE TAG		
	MECHANICAL/ELECTRICAL EQUIPMENT TAG		
	OTHER EQUIPMENT TAG		
	WIRING / CONDUIT		
	UNDERGROUND/FLOOR WIRING		
	CONDUIT TURNED UP		
	CONDUIT TURNED DOWN		
	CIRCUIT HOME RUN TO PANEL - # OF ARROWHEADS INDICATE # OF CIRCUITS (SEPARATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.		

NOTES

- SEE LIGHTING FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND OTHER SPECIFICS.
- CONNECT EMERGENCY AND/OR EXIT LIGHTS TO THE UNSWITCHED SIDE OF THE AREA LIGHTING BRANCH CIRCUIT.
- ARROW DENOTES EXIT DIRECTION.
- USE HEAVY DUTY FOR 480 VOLT.
- MOUNT SWITCH AT DOOR JAM PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE UL LISTED DEVICE TO BE USED WITH THE FIRE ALARM PANEL/SYSTEM OR PROVIDE A MONITOR MODULE TO CONNECT INTO FIRE ALARM SYSTEM.
- PROVIDE RACEWAY WITH OUTLETS 12" ON CENTER UNO.

ABBREVIATIONS

AFCI - ARC FAULT CKT INTERRUPTER	MCB - MAIN CIRCUIT BREAKER
AFF - ABOVE FINISHED FLOOR	MCC - MOTOR CONTROL CENTER
AFG - ABOVE FINISHED GRADE	MDP - MAIN DISTRIBUTION PANEL
AIC - AMPS INTERRUPTING CAPACITY	MLO - MAIN LUGS ONLY
AL - ALUMINUM	(N) - NEW
ATS - AUTOMATIC TRANSFER SWITCH	NIC - NOT IN CONTRACT
BC - BARE COPPER	NEC - NATIONAL ELECTRICAL CODE
BFC - BELOW FINISHED CEILING	NFPA - NATIONAL FIRE PROT. ASSN.
BFG - BELOW FINISHED GRADE	NL - NIGHT LIGHT
CKT - CIRCUIT	NR - NOT REQUIRED
CND OR C - CONDUIT	NTS - NOT TO SCALE
CLG - INSTALLED IN CEILING	PC - PLUMBING CONTRACTOR
PNL - PANEL	PNEC - NATIONAL ELECTRICAL CODE
POC - POINT OF CONNECTION	POS - POINT OF SALE
CU - COPPER	(R) - RELOCATED
(E) - EXISTING TO REMAIN	REC - RECEPTAC



**REVIEWED FOR CODE  
COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB**

- KEYED NOTES**
1. PROVIDE A CEILING MOUNT DUAL TECH OCC SENSOR WITH POWER PACK FOR RESTROOM LIGHT AND FAN CONTROL. VERIFY FAN VOLTAGE AND PROVIDE ADDITIONAL POWER PACK IF NECESSARY. (SENSOR SWITCH #CM PDT OR EQUIVALENT).
  2. WALL MOUNT OCC SENSOR SHALL BE DUAL TECH DIMMABLE (SENSOR SWITCH WSX PDT D) OR EQUIVALENT.
  3. LOW VOLTAGE OVERRIDE SWITCH FOR LIGHTING CONTROL PANEL. 2 BUTTON (ON/OFF)
  4. PROVIDE 96 WATT POWER SUPPLY (96HDL-24V OR EQUAL). LOCATE ABOVE CEILING.
  5. PROVIDE ELY DIMMER FOR TAPE LIGHT.
  6. TL FIXTURES ARE TO BE MOUNTED WITHIN LIGHTING COVE AND SHALL BE AIMED TO SHINE UP INTO LIGHTING WELL. PROVIDE ACCESS PANELS WHERE NEEDED TO ACCESS LIGHTING ABOVE RESTROOMS.
  7. PROVIDE A LINE VOLTAGE ON/OFF DAYLIGHT SENSOR FOR OPEN OFFICE DAYLIGHT HARVESTING.
  8. PROVIDE A LOW VOLTAGE PHOTOCELL CONNECTED TO THE LIGHTING CONTROL PANEL FOR EXTERIOR LIGHTING OPERATION.
- GENERAL NOTES**
- A. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY.
  - B. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.
  - C. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.
  - D. ELECTRICIAN TO VERIFY FIXTURE DIMMING CONTROLS AND TO PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.
- LTG CTRL SEQUENCE OF OPERATION**
- LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2015
- LIGHTING CONTROL PANEL WILL BE PROGRAMMED TO TURN LIGHTS ON AND OFF FOR HOURS OF OPERATION.
- OCCUPANCY SENSORS WILL CONTROL LIGHTING IN RESTROOMS.
- WALL MOUNTED DIMMABLE OCC SENSORS WILL BE PROVIDED IN PRIVATE OFFICES AND BREAK ROOM.
- PHOTOCELLS WILL AUTOMATICALLY DIM LIGHTS WHEN DAYLIGHTING IS AVAILABLE.
- WALL MOUNTED OCC SENSORS WILL CONTROL LIGHTING IN UTILITY, SERVER AND STORAGE ROOMS.
- LOW VOLTAGE SWITCHES WILL ACT AS OVERRIDES TO TIME SCHEDULING.
- EXTERIOR LIGHTS WILL COME ON WITH PHOTOCELL AND BE PROGRAMMED OFF.
- CORRIDOR, AND STAIRWELL LIGHTING ARE EXEMPT FROM LIGHTING CONTROLS PER IECC 2015 C405.2
- DAYLIGHT CONTROLS EXEMPT FROM DAYLIGHTING REQUIREMENTS PER IECC 2015 405.2.3 (1) (LESS THAN 150 W)

**design west | architects**  
255 SOUTH 900 WEST  
795 NORTH 400 WEST  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

**JSSD ADMINISTRATION BUILDING**  
5388 NORTH OLD HWY 40  
HEBER CITY, UT 84032  
JORDANVILLE SPECIAL SERVICE DISTRICT

MARK	DATE	DESCRIPTION
1	9-27-18	ADDENDUM 1
2	11-27-18	CITY COMMENTS
3		

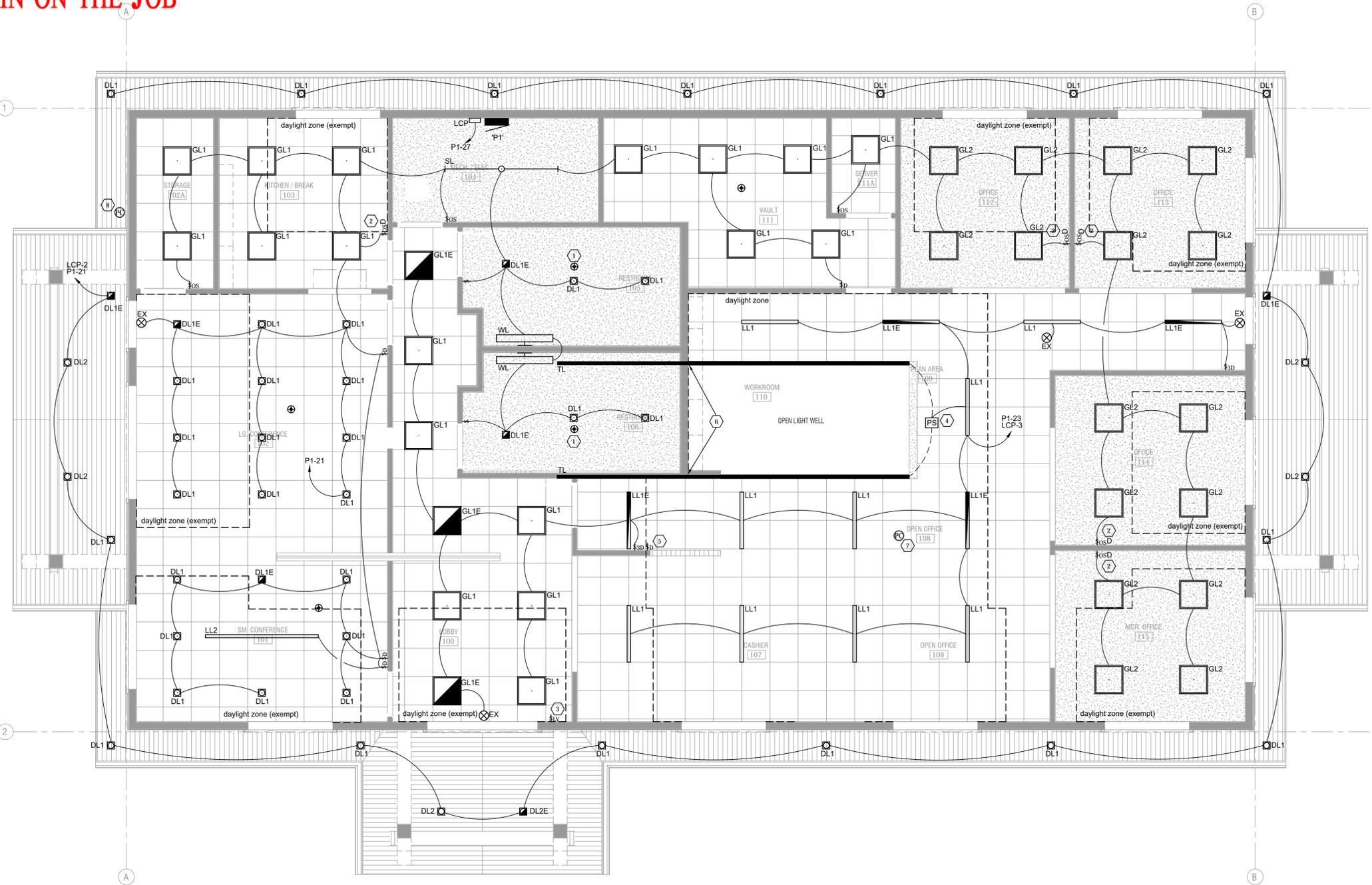
PROJECT #: 818120  
DRAWN BY: SL\_BT  
CHECKED BY: ES  
ISSUED: 07-25-18



LIGHTING PLAN

E101

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**1 LIGHTING PLAN**  
E101 1/4" = 1'-0"

DESIGN WEST ARCHITECTS

**REVIEWED FOR CODE  
COMPLIANCE BY  
WASATCH COUNTY  
APPROVED PLANS MUST  
REMAIN ON THE JOB**

- KEYED NOTES**
1. PROVIDE AN ARLINGTON SERIES (OR EQUAL) RECESSED TELEVISION BOX WITH POWER AND DATA PORTS.
  2. PROVIDE (1) 1.25" C AND FOR TELECOMMUNICATION AND AV CABLING. PROVIDE (1) 3/4" C FOR POWER. REFER TO TELEVISION DETAIL 1/E501 FOR MORE INFORMATION. IF ANY SAW-CUTTING OR TRENCHING IS REQUIRED, THE FLOOR SHALL BE PATCHED TO MATCH SURROUNDING FLOOR.
  3. PROVIDE A LEGRAND RFB4 (OR EQUAL) FLOOR BOX. INSTALL FLOOR BOX IN A LOCATION THAT IS WITHIN 12" OF TABLE LEG. MOUNT FLUSH WITH FINISHED FLOOR. COORDINATE EXACT RECEPTACLE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
  4. PROVIDE (1) 1.25" C FROM JUNCTION BOX TO ACCESSIBLE CEILING FOR TELECOMMUNICATION WIRING. REFER TO LOW-VOLTAGE CONDUIT DETAIL 3/E501 FOR MORE INFORMATION.
  5. SEE DETAIL 2/E501 FOR MORE INFORMATION. COORDINATE SYSTEM TYPE AND ANY SYSTEM REQUIREMENTS WITH JORDANELLE SPECIAL SERVICE DISTRICT PRIOR TO CONSTRUCTION.
  6. INTERCONNECT EXHAUST FAN WITH RESTROOM LIGHTING. INTERLOCK EXTERIOR DAMPER MOTOR WITH EXHAUST FAN SO THAT THE DAMPER OPENS WHEN THE EXHAUST FAN IS ON.
- GENERAL NOTES**
- A. COORDINATE RECEPTACLE LAYOUT WITH ARCHITECTURAL DRAWINGS AND MILLWORK VENDOR PRIOR TO CONSTRUCTION.
  - B. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.
  - C. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

**design west | architects**  
255 SOUTH 900 WEST  
795 NORTH 400 WEST  
LOGAN UT 84321  
SALT LAKE CITY UT 84103

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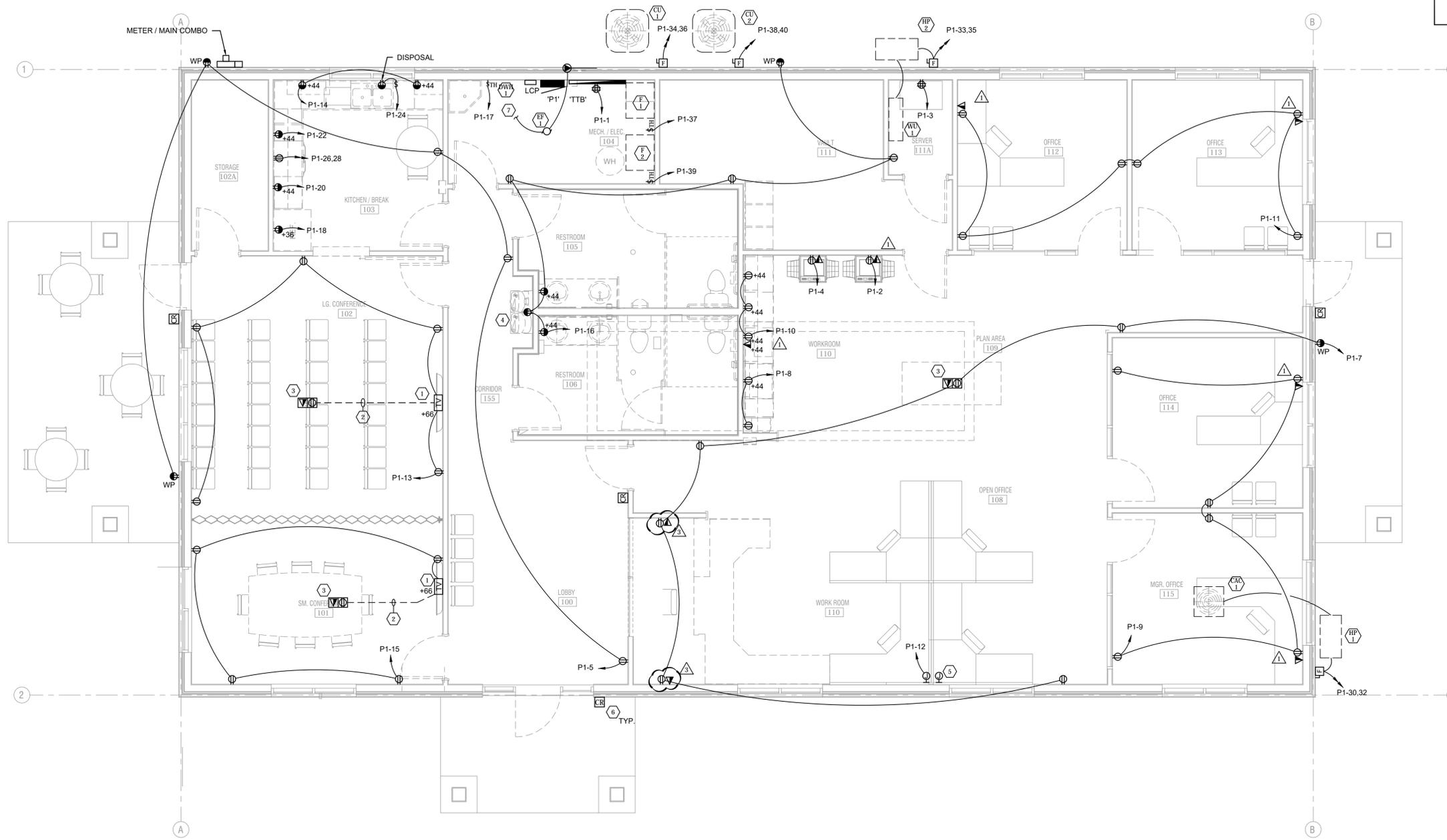
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POWER PLAN

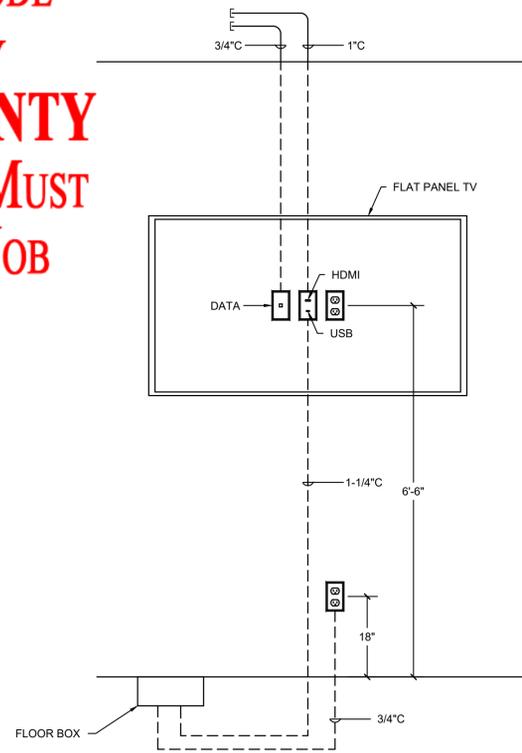
E201



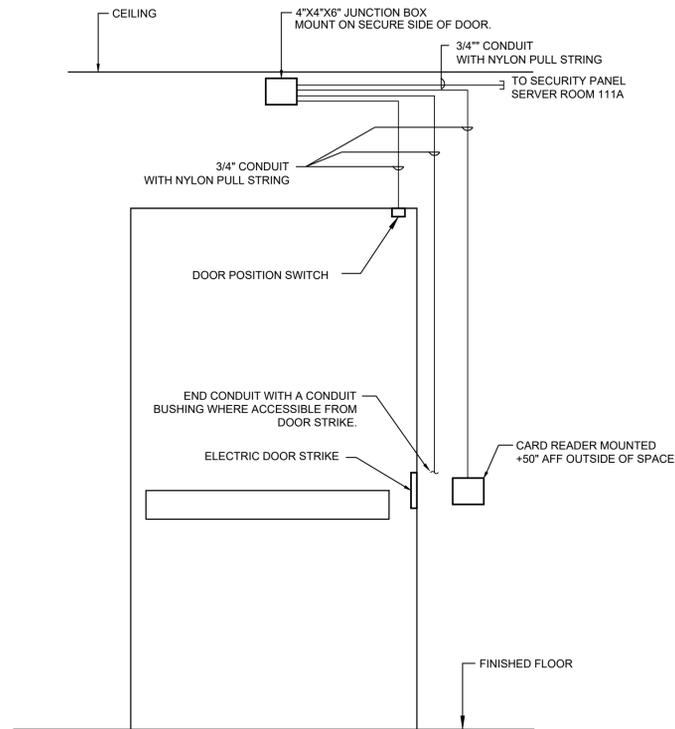
**3 POWER PLAN**  
E201 1/4" = 1'-0"



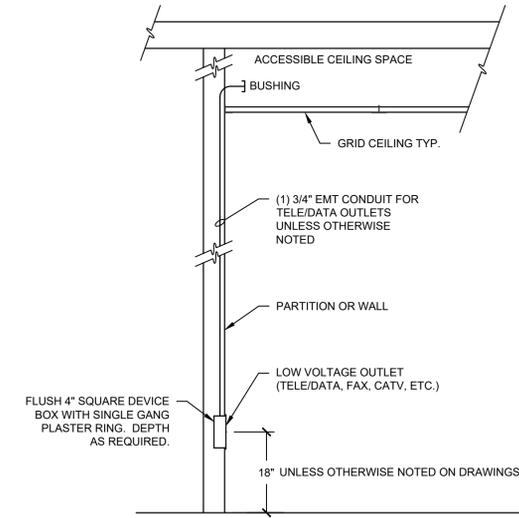
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**1 TV ROUGH-IN DETAIL**  
E501 NO SCALE

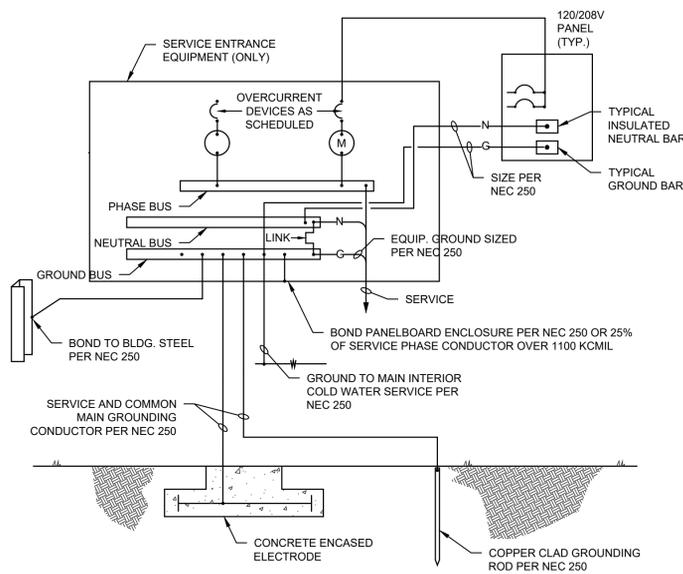


**2 CARD READER ROUGH-IN DETAIL**  
E501 NO SCALE



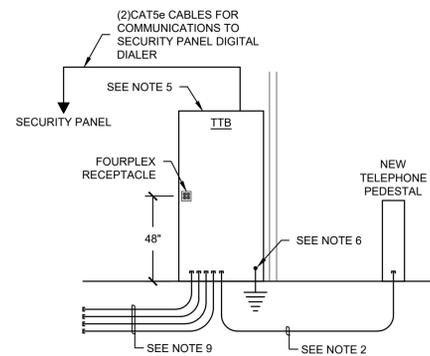
- NOTES:**
1. WIRING TO BE RUN ABOVE ACCESSIBLE CEILINGS IN A WORKMANLIKE MANNER. SUPPORT CABLES FROM STRUCTURE EVERY SIX FEET MIN. USING 'J' HOOKS, BRIDAL RINGS, OR OTHER APPROVED METHODS.
  2. WHERE SPACE ABOVE THE CEILING IS BEING USED AS A RETURN AIR PLENUM, ALL CABLING NOT INSTALLED WITHIN CONDUIT SHALL BE PLENUM RATED.

**3 LOW VOLTAGE OUTLET DETAIL**  
E501 NO SCALE



**NOTE:**  
CONTRACTOR TO BOND ALL METAL PIPING SYSTEMS WITHIN THE BUILDING. CONTRACTOR TO PROVIDE GROUND BUSHINGS ON ALL CONDUITS CONNECTED TO PANELBOARDS, TRANSFORMERS, ETC.

**4 TYPICAL GROUNDING/BONDING DETAIL**  
E501 NO SCALE

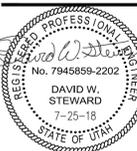


- NOTES:**
1. PROVIDE A 4" PVC-FOOTAGE TAPE FOR TELEPHONE SERVICE CONDUCTORS FROM THE EXISTING CROSS CONNECT BOX TO THE NEW TELEPHONE PEDESTAL LOCATION.
  2. PROVIDE A 3" PVC-FOOTAGE TAPE FROM THE NEW TELEPHONE PEDESTAL LOCATION TO THE TELEPHONE TERMINAL BOARD FOR TELEPHONE SERVICE. STUB CONDUIT UP UNDERNEATH THE TERMINAL BOARD.
  3. WHERE ELBOW AND/OR SWEEPS PENETRATE FOUNDATION OR FLOOR SLABS THE CONDUIT SHALL BE GALVANIZED RIGID CONDUIT (GRC) WRAPPED WITH CORROSION RESISTANCE TAP.
  4. CONDUITS SHALL BE STUBBED UP THROUGH THE FLOOR TO A HEIGHT OF 6" ABOVE FLOOR LEVEL AND CAPPED WITH PLASTIC BUSHINGS.
  5. PROVIDE A 4'x8'x3/4" PLYWOOD BACKBOARD PAINTED WITH FIRE RESISTIVE COATING FOR BOTH THE TELEPHONE TERMINAL BOARD (TTB) IN EACH BUILDING.
  6. PROVIDE A #6 GREEN GROUNDING CONDUCTOR FROM THE TTB PLYWOOD BACKBOARD TO THE BUILDING GROUNDING SYSTEM.
  7. PROVIDE TYPE 66 PUNCHDOWN BLOCKS FOR LANDING ALL INTERIOR BUILDING TELEPHONE CABLING. CONNECTIONS TO THE TELEPHONE SERVICE DEMARC SHALL BE BY TELECOM COMPANY.
  8. INSTALL TWO DEDICATED TELEPHONE LINE (CAT5e) CABLES FROM THE TELEPHONE TERMINAL BOARD TO THE SECURITY ALARM DIALER.
  9. STUB (4) 2" PVC CONDUITS UNDERGROUND FROM THE TELEPHONE TERMINAL BOARD OUT INTO THE SPACE AS SHOWN ON DRAWING. FUTURE TENANTS SHALL BE RESPONSIBLE FOR EXTENDING FROM THIS LOCATION TO THEIR RESPECTIVE SPACES.

**5 TYPICAL TELECOM RISER DIAGRAM**  
E501 NO SCALE

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**ELECTRICAL  
DETAILS**

REVIEWED FOR CODE COMPLIANCE BY WASATCH COUNTY APPROVED PLANS MUST REMAIN ON THE JOB

LIGHT FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	LAMPING	CONTROL	MOUNTING	LOAD(VA)	DESCRIPTION	
DL1	LITHONIA	LDN6 40/10 L06AR LSS MVOLT E210	MVOLT	1000 LUM 4000K	0-10V	RECESSED	12.8	6" LED DOWNLIGHT	
DL1E	SAME AS FIXTURE DL1 EXCEPT WITH EMERGENCY BATTERY PACK								
DL2	LITHONIA	LDN6 30/10 L06AR LSS MVOLT SCA6	MVOLT	1000 LUM 3000K	0-10V	RECESSED	12.8	6" LED DOWNLIGHT WITH SLOPED CEILING ADAPTER	
DL2E	SAME AS FIXTURE DL2 EXCEPT WITH EMERGENCY BATTERY PACK								
GL1	LITHONIA	2BLT2 20L ADP MVOLT E21 L840	MVOLT	2000 LUM 4000K	0-10V	RECESSED	19.6	2x2 VOLUMETRIC	
GLE	SAME AS FIXTURE GL EXCEPT WITH EMERGENCY BATTERY PACK								
GL2	LITHONIA	2BLT2 20L ADP MVOLT E21 L840 DGA22	MVOLT	2000 LUM 4000K	0-10V	RECESSED	19.6	2x2 VOLUMETRIC. DRYWALL GRID ADAPTER FOR 2x2 RECESSED FIXTURE	
LL1	PEERLESS	BRM9L 4FT 80CRI 40K ID100LMF 20/80 MIN1 ZT 120V SCT	120	1000 LUM/FT 4000K	0-10V	SUSPENDED	31.6	4' LED LINEAR 20UP/80DOWN	
LL1E	SAME AS FIXTURE LL EXCEPT WITH EMERGENCY BATTERY PACK								
LL2	PEERLESS	BRM9L 4FT 80CRI 40K ID100LMF 20/80 MIN1 ZT 120V SCT	120	1000 LUM/FT 4000K	0-10V	SUSPENDED	31.6	4' LED LINEAR 20UP/80DOWN	
SL	LITHONIA	CLX L96 6000LM SEF FDL MVOLT 40K 80 CRI	MVOLT	6000 LUM 4000K	-	SURFACE	38.15	8' LED STRIP LIGHT	
PL	LITHONIA	DSXD LED P3 30K T3M MVOLT SPA	MVOLT	7846 LUM 3000K	-	POLE	71	LED AREA LIGHT. 15' SQUARE POLE.	
TL	KELVIX	PL41K-24V	120	184 LUM/FT 4100K	0-10V	SURFACE	1.9/FT	LED TAPE LIGHT	
WL	LITHONIA	FMVCSL 48IN MVOLT 40K 90CRI	MVOLT	2692 LUM 4000K	-	WALL	32	4' LED SQUARE VANITY LIGHT	
EX	LITHONIA	LQM S 3 R 120/277 ELN	MVOLT	-	-	UNIVERSAL	0.69	THERMOPLASTIC EXT SIGN	

NOTES:  
1. ALL LIGHT FIXTURES SHOWN HALF SHADED SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK

PANEL SCHEDULE P1											
VOLT/PHASE/WIRE:		AIC RATING:		AIC		MAIN BREAKER:					
120/240V/1PH/3W		10,000		10,000		400A					
MOUNT/ENCLOSURE:		LOCATION:		ELEC.		MAIN LUGS:					
RECESSED/NEMA 1		ELEC_104		104		400A					
CRFNO	DESCRIPTION	LOAD	AMPS	POLES	A	C	POLES	AMPS	LOAD	DESCRIPTION	CRFNO
1	REC - TELEPHONE BOARD	500	20	1	1500		1	20	1000	PRINTER / COPIER	2
3	REC - SERVER	500	20	1		1500	1	20	1000	PRINTER / COPIER	4
5	REC - GENERAL NORTH	900	20	1	900		1	20	0	SPARE	6
7	REC - GENERAL SOUTH	1260	20	1		2600	1	20	1340	REC - POSTAGE MACHINE	8
9	REC - SOUTH OFFICE	1080	20	1	1580		1	20	500	REC - FAX MACHINE	10
11	REC - EAST OFFICE	1080	20	1		2280	1	20	1200	REC - OPEN OFFICE CUBICLES	12
13	REC - LG CONFERENCE ROOM	1260	20	1	2760		1	20	1500	REC - BREAK ROOM COUNTER	14
15	REC - SM CONFERENCE ROOM	1080	20	1		2412	1	20	1332	REC - RR STORAGE SERVER	16
17	WATER HEATER	200	20	1	1500		1	20	1300	REC - FRIDGE	18
19	SPARE	0	20	1		1000	1	20	1000	REC - MICROWAVE	20
21	LTG - CONF / RESTROOM / OFFICE	995	20	1	2495		1	20	1500	REC - BREAK ROOM COUNTER	22
23	LTG - OPEN OFFICE / LOBBY	587	20	1		1787	1	20	1200	DISPOSAL	24
25	LTG - EXTERIOR BUILDING	300	20	1	300		2	40	0	BREAKROOM OVEN/ RANGE	26
27	LCP	500	20	1		500	-	-	0		28
29	MOTORIZED GATE	2496	30	2	4296		2	20	1800	HP-1	30
31		2496	-	-		4296	-	-	1800		32
33	HP-2	1800	30	2	5628		2	20	3828	CU-1	34
35		1800	-	-		5628	-	-	3828		36
37	F-1	1200	20	1	5028		2	20	3828	CU-2	38
39	F-2	1200	20	1		5028	-	-	3828		40
41	LTG SITE	284	20	1	284		1	20	0	SPARE	42
TOTALS		26,271		27,031							
TOTAL LOAD:		53,302									
LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION		DEMAND LOAD						
EXISTING	0	0	125% x	0	0	0					
LIGHTING	2,166	0	125% x	2166	+ 100% x	0					
RECEPTACLE	0	12,232	100% x	10000	+ 50% x	2232					
MOTOR	0	6,192	125% x	0	+ 100% x	6192					
FIXED HEAT	0	2,400	100% x	2400		22512					
A/C	0	22,512	100% x	22512							
KITCHEN EQUIP.	0	1,300	100	1300		1,300					
MISC	0	6,500	125% x	0	+ 100% x	6500					
TOTAL DEMAND LOAD:						50,328 VA					
						210 A					

PANEL NOTES:

LIGHTING RELAY SCHEDULE									
ID.:	LCP	PART #:	LC&D GR1404						
LOCATION:	MECH / ELEC ROOM	ENCLOSURE DIMENSION:	8.4"W X 13.4"H X 3.125"D						
SUPPLY CIRCUIT:	P1-27	NEMA RATING:	NEMA 1						
VOLTAGE:	120								
RELAY:	LINE FEED:	DESCRIPTION:	LV SW:	NOTES:					
1	P1-41	EXTERIOR LTG		A	B	C	D	E	
2	P1-21	EXTERIOR BUILDING LTG			X	X			
3	P1-23	OPEN OFFICE / LOBBY	LV \$	X					
4		SPARE							

PROGRAMMING NOTES:  
A. TIMED ON / TIMED OFF  
B. TIMED ON / PHOTOCELL OFF  
C. PHOTOCELL ON / TIMED OFF  
D. PHOTOCELL ON / PHOTOCELL OFF  
E. OTHER

EQUIPMENT SCHEDULE																
MARK	DESCRIPTION	ELECTRICAL										STARTER	OVERCURRENT PROTECTION		REMARKS	
		V	PH	KW	HP	MCA	FLA	MOCP	CONDUIT SIZE	WIRE QTY.	WIRE SIZE	GND. SIZE	NEMA SIZE	DISCONNECT SIZE/POLE		FUSE SIZE
EF-1	EXHAUST FAN	120	1	60W				20	3/4"	2	12	12	-	-	-	15A
HP-1	HEATPUMP	208	1			15		20	3/4"	2	12	12	-	30/2	15	1A
HP-2	HEATPUMP	208	1			15		20	3/4"	2	12	12	-	30/2	15	1A
WU-1	FAN COIL	208	1				1	-	3/4"	2	12	12	-	-	-	16A
CAC-1	FAN COIL	208	1	46W				20	3/4"	2	12	12	-	-	-	2A
CU-1	CONDENSING UNIT	208	3			32		50	3/4"	2	10	10	-	60/2	50	1A
CU-2	CONDENSING UNIT	208	3			32		50	3/4"	2	10	10	-	60/2	50	1A
F-1	FURNACE	120	1			10		20	3/4"	2	12	12	-	30/1	15	1A
F-2	FURNACE	120	1			10		20	3/4"	2	12	12	-	30/1	15	1A
DWH	GAS WATER HEATER	120	1													

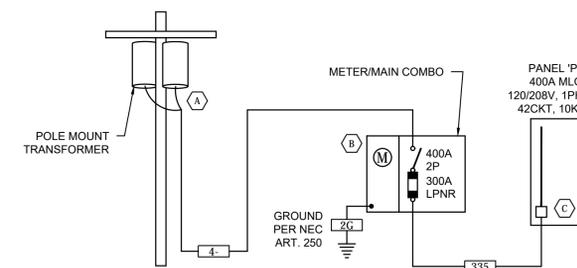
V/PH/Hz = VOLTAGE / PHASE / HERTZ  
KW = KILOWATTS  
HP = HORSE POWER

REMARKS:  
1. FUSED DISCONNECT SWITCH  
2. NON-FUSED DISCONNECT SWITCH  
3. BREAKER IN ENCLOSURE  
4. MANUAL STARTER WITH THERMAL OVERLOAD  
5. MOTOR-RATED SWITCH WITHOUT THERMAL OVERLOAD  
6. MAGNETIC STARTER  
7. MAGNETIC STARTER / NON-FUSED DISCONNECT SWITCH  
8. MAGNETIC STARTER / FUSED DISCONNECT COMBINATION  
9. MAGNETIC STARTER / BREAKER COMBINATION  
10. REDUCED VOLTAGE STARTER  
11. VARIABLE FREQUENCY DRIVE  
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.  
13. DIRECT CONNECTION  
14. DUCT DETECTOR IN RETURN DUCT  
15. SWITCH WITH LIGHTS  
16. POWERED VIA CORRESPONDING HEAT PUMP UNIT  
A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26  
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26  
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26  
D. FURNISHED, INSTALLED, AND CONNECTED UNDER ANOTHER DIVISION  
E. FURNISHED AND INSTALLED UNDER DIVISION 26 REQUIRING CONNECTION UNDER ANOTHER DIVISION

FAULT CURRENT CALCULATIONS		
208 Volt Panel	SERV DISC	P1
Feed From	SERV XFMR	SERV DISC
Available Fault Current	12550	10110
(L) Length to panel	57	50
Conduit Type (P,S)	P	S
Conductor Size	500	350
Conductor Type (c,a)	a	c
No of Runs	1	1
C - from chart	21391	19703
Voltage	240	240
f	0.24133713	0.11109117
m	0.80558293	0.90001616
I s.c. at Panel	10110	9099

CONDUIT/CONDUCTOR SCHEDULE							
MARK	AMPS	CONDUIT	CU/AL	CONDUCTORS (TOTAL)			NOTES
				PHASE	NEUTRAL	GROUND	
335	300	3"	CU	(2) 350	350	4	1
2G	-	-	CU	-	-	2	2
4	-	4"	-	-	-	-	3

NOTES:  
1. CONDUCTOR INSULATIONS TO BE RATED THWN-2/THHN 90°C.  
2. GROUNDING ELECTRODE CONDUCTOR TO BE BONDED TO ALL AVAILABLE GROUNDING ELECTRODES.  
3. CONTRACTOR TO PROVIDE SERVICE LATERAL CONDUIT FROM THE TRANSFORMER TO THE METER. CONDUCTORS ARE TO BE PROVIDED, INSTALLED, AND TERMINATED BY RMP.



1 ONE-LINE DIAGRAM  
E601 NO SCALE

AVAILABLE FAULT CURRENTS

- (A) ESTIMATED 12,550A
- (B) 10,110A
- (C) 9,099A

design west | architects  
255 SOUTH 400 WEST  
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ELECTRICAL SCHEDULES

E601