# GIVE ME A CHANCE MEZZANINE ADDITION 2913 GRANT AVE OGDEN, UTAH

Case, Lowe and Hart, Inc. 2484 Washington Blvd. Ste 510 Ogden, Utah 84401

ARW ENGINEERS 1594 W PARK CIRCLE STE 100 Ogden, Utah 84404

/20/2019 9:53:58 AM

Α

B

D

 $\bigodot$  COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

IF SHEET IS LESS THAN 22"x 34" IT IS A REDUCED PRINT.

REDUCE SCALE ACCORDINGLY



PROJECT



\_ \_ \_ I

APPI	2018 Interna 2018 Interna 2018 Interna	tional Building Coo tional Mechanical	de Code		2017 N 2009 A	ational Electrical C merican National S	ode Standard				
	2018 Interna 2018 Interna 2018 Interna 2018 Interna 2018 Interna	itional Fuel Code itional Plumbing C itional Fire Code itional Energy Con itional Existing Bui	ode servation Cod Iding Code	е	A IC 2010 A	CCESSIDIE and USA CC/ANSI A117.1-20 DAAG	009 009	CIIITIES			
occ	UPANCY GROUI B/E (IBC Sec CHANGE IN	<b>):</b> tion 304/305) JSE: No									
BUIL	DING HEIGHTS	AND AREAS: BUILDING HEIGH	HT AND NUMI	BER OF STORI	ES (IBC 504	4)					МЕСН
	Allowa ACTUAL BUI Actual ALLOWABLE	ble Height (IBC Ta LDING HEIGHT AI Height: 24'-3" ft FLOOR AREA (IE	ible 504.3): 60 ND NUMBER 3C Table 506.2	oft OF STORIES 2):	Allowabl Actual N w	e Number of Storie umber of Stories: ´ ith basement and ı	es (IBC Table 504.4): I nezzanine	2			201/300
	B=27,0 ACTUAL FLC 5,090 s AREA MODIF	000 sf E=38,000 s 0OR AREA: sf - B=1,800 sf E= FICATION:	t = 3,290 sf								
	Fronta B- 27,( ADJUSTED <i>A</i> 46,440	ge Increase (IBC 5 000 sf x 72% = 46, LLOWABLE FLOO sf	506.3): XX% 440 sf OR AREA:	E- 38	,000 sf x 724	%=65,360 sf			DOOR 32x .2= 160 OCCUP MAX	, M	IENS 002
CON	STRUCTION TYP	PE:									
	VB FIRE-RESIST Primar Bearin	ANCE RATING R y Structural Frame g Walls - Exterior:	EQUIREMEN ::	TS FOR BUILD 0 hrs 0 hrs	ING ELEME	NTS (IBC Table 60	)1):		-		
	Bearin Nonbe	g Walls - Interior: aring Walls - Exter	ior (IBC Table	0 hrs 602): 0 hrs					=		COMPL
	Nonbe Floor ( Roof C	aring Walls - Interi Construction: Construction:	or:	0 hrs 0 hrs 0 hrs							162/100
FIRE	E PROTECTION (I FIRE SPRINK	BC 903): (LERS REQUIREE	): Yes								
	PORTABLE F Buildin Buildin Buildin	g will be served by IRE EXTINGUISH g will have installe	/ an automatic IERS: d Portable Fin	fire protection s	sprinkler sys	tem in accordance 906 and NFPA 10	with NFPA 13				
000	UPANT LOAD: 171 (see O	CCUPANT LOAD	TABLE)								
MEA	NS OF EGRESS: EXIT WIDTH	REQUIRED (IBC -	1005):								
	171 oc EXIT WIDTH	cupants x .2 = 34.3 PROVIDED:	2"								62
	160" NUMBER OF 2 exits	EXITS REQUIRE	D (IBC 1006):								
	NUMBER OF 4 exits MAXIMUM C	EXITS PROVIDE	D: EGRESS TP		3LE 1006 2	1):					
	Occup	ancy $E = 75$ ft				· <i>j</i> ·					
	LONGEST C 62 ft ALLOWABLF	DMMON PATH OF	- EGRESS TR RAVEL DISTA	NCE REQUIRF	ED: ED (IBC TAR	BLE 1017.2):					
	Occup Occup LONGEST EX 75 ft	ancy B = 250 ft ancy E = 250 ft KIT ACCESS TRAY	VEL DISTANC	E PROVIDED:	, <b>.</b>	,					
PLU	MBING FIXTURE	REQUIREMENTS	(IBC TABLE	2902.1):							
	OCCUPANC	OCCUPANTS	WATER Male	CLOSETS Female	WATE CLOSET	R WATE	R LAVA S Male	TORIES Female	LAVATORIES REQUIRED	LAVATORIE PROVIDED	ES DRINK
	B	<u>30.92</u>	0.84	0.84	1.67	3.00	0.84	0.84	0.77	3.00	1 per 8
				TOTALS	2.91	6		TOTALS	<u>2.45</u> 3	6	
000	NOTE: 1 SER UPANT LOAD TA MAXIMUN FL	NICE SINK IS REA BLE: OOR ALLOWANC	QUIRED	e 1004.1.2)							
		Y FUNCTION	OF SPACE	AREA (sf) A	CCESSORY	FACTOR	OCCUPANTS				
	E	Class Area		4187 1117	N	20	55.85			36 32	" EGRESS DO x.2= 160 OCCl
	B B B	Office Storage Break Area		1662 571 186	N Y Y	100 300 15	16.62 1.90 12.4				-
					· · · · · · · · · · · · · · · · · · ·						
						SUB TOTAL:	170.51			FRONTAGE IN	VCREASE
I						I I OTAL:	171				



# BASEMENT LIFE SAFETY





<sup>©</sup> COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

X

D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
С	STAMP
В	ADJUCTION       ADJUCTION         MARK       DAUGHTERS OF CHARITY MINISTRY         MARK       DAUGHTERS OF CHARITY MINISTRY
A	ISSUE DATE: DEC 20,2019 PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: Author CHK'D BY: Checker BID SET 20 DEC 2019 SHEET TITLE DEMO PLANS

	 	 	 	 _	 	_



	MECHANICAL DEMOLITIC
MARK	NOTE
MD1	REMOVE EXISTING UNIT HEATER, FLUE, CONTROLS, WIRIN

	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
	STAMP
	MEZZANINE RENOVATION
<b>ON KEYED NOTES</b> NG, THERMOSTAT AND RELATED COMPONENTS.	2913 GRANT AVE OGDEN, UTAH 84401 MARK DATE DESCRIPTION
	ISSUE DATE: DEC 20,2019 PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: GM, JAC CHK'D BY: SN BID SET 20 DEC 2019
A	MAIN FLOOR MECHANICAL DEMOLITION PLAN SHEET NO: MD101



PLUMBING D						
MARK						
PD1	DISCONNECT WATER SO THAT					
PD2	REMOVE HOSE BIBB.					
PD3	DISCONNECT GAS PIPING (NOT					

	D Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
	STAMP
	C
	THE A CHANCE A DAUGHTERS OF CHARITY Ministry MEZZANINE
NOTE NO DEAD ENDS REMAIN. ABANDON PIPING UNDER SLAB. T SHOWN) AT UNIT HEATER AND CAP.	B B B B B B B B B B B B B B B B B B B
	ISSUE DATE: DEC 20,2019 PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: GM, JAC CHK'D BY: SN BID SET
	A PLUMBING DEMOLITION PLAN
5	SHEET NO: PD101



ΡM



K	NOTE
	TO BE REMOVED.
	PHONE/DATA, LIGHTING, POWER & FIRE ALARM THIS AREA TO REMAIN.
	EXISTING SWITCH BANK TO REMAIN.
	REMOVE CIRCUIT & CONTROLS FOR OVERHEAD DOOR.
	EXTEND WIRING DEVICES & J-BOXES THIS WALL TO SURFACE OF NEW FURRING.
	THIS DEVICE TO BE RELOCATED.
	REMOVE FIXTURE. MAINTAIN CIRCUITING & SWITCHING TO REMAIN.
	PANEL TO BE REPLACED / RELOCATED. PROVIDE COVER TO CONVERT PANEL CANS TO J-BOXES. EXTEND CIRCUITS TO NEW PANEL LOCATION.
	RELOCATE LIGHT FIXTURE.
)	REMOVE EXISTING METER/MAINS.
	REMOVE LIGHT FIXTURES & HEAT DETECTORS AND RE-INSTALL ON NEW CEILING.

D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
С	STAMP STAMP STAMP STAMP Standard Stand
В	KEZZANINE RENOVATION2913 GRANT AVE OGDEN, UTAH 84401MARKDATEDESCRIPTION
A	ISSUE DATE:       DEC 20,2019         PROJECT NO:       19310         CAD DWG FILE:       JMS.         DRAWN BY:       JMS.         CHK'D BY:       KJL.         BID SET       20 DEC 2019         SHEET TITLE       SHEET NITLE         SHEET NO:       ED101

Δ	 GF	
٦.	1	THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE
	1.	PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS
	2.	THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE
		HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE
	2	TO, DIMENSIONS, SIZES, ETC).
	5.	ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS
		ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE
		ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE
	4.	ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER
		AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR
		VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS, PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL FLEMENTS WILL REQUIRE
		INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS
	5.	THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL
	0	ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
	6.	EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS.
		SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
	7.	THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR
	8.	SUBSTITUTIONS. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE
	9.	CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE
	10	WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT
		SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT
	11.	DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT
	40	PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
	12.	THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL
	13.	SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH
		AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS
		PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS
	14.	NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW
		INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE
		INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS
		PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
	15.	WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".
3.	ST	ATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS
	1.	THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE
		SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL
	2.	INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S002. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704
		THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB
		SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL
	3.	ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL
		REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR,
	4.	ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW
		ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND
		THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR
		DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED
	5.	CONSTRUCTION. IN ACCORDANCE WITH IBC 1704.4. THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S
		STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE
		DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A
~	P *	
	1 1	
	י. ר	RISK CATEGORY : II
	∠.	a. LIVE LOAD = 125 PSF UNREDUCED
	3.	D. DEAD LOAD = 15 PSF WIND DESIGN
		<ul><li>a. BASIC WIND SPEED (3 SECOND GUST): 103 MPH</li><li>b. WIND EXPOSURE : C</li></ul>
		<ul> <li>c. INTERNAL PRESSURE COEFFICIENT, G<sub>CPI</sub>: 0.18</li> <li>d. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-16</li> </ul>
	4.	SEISMIC DESIGN : a SEISMIC IMPORTANCE FACTOR Is: 1.0
		<ul> <li>b. SITE CLASS : D</li> <li>MADDED SPECTRAL DESDONSE ACCELEDATIONS - S = 1.262 - S = 0.405</li> </ul>
		d. SPECTRAL RESPONSE COEFFICIENTS : $S_{DS} = 1.09$ , $S_{D1} = 0.594$
		<ul> <li>BASIC SEISMIC-FORCE-RESISTING SYSTEM : LIGHT FRAME WOOD SHEAR WALLS</li> </ul>
		<ul> <li>g. DESIGN BASE SHEAK: VN-S = 0.16/Wt., VE-W = 0.16/Wt.</li> <li>h. SEISMIC RESPONSE COEFFICIENT, Cs: 0.167</li> </ul>
		I. RESPONSE MODIFICATION FACTOR, R : 6.5 J. ANALYSIS PROCEDURE : ELF

REDUCE SCALE ACCORDINGLY

## G. REINFORCING STEEL

## 1. REINFORCING BAR STRENGTH REQUIREMENTS:

### a. DESIGN SOIL PRESSURE : 1500 PSF

D. FOUNDATION

E. CONCRETE

PLACEMENT.

INTENT

HOLES.

LOCATION

-5

1. GENERAL

b. ALL FOOTINGS SHALL BE PLACED ON MECHANICALLY COMPACTED FILL COMPACTED TO NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557). c. UNLESS NOTED OTHERWISE, ALL CONCRETE SLABS ON EARTH SHALL BEAR ON STRUCTURAL FILL

COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY (ASTM D-1557). d. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON

PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS.

UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.). WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER, CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL "FORMS" PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDE.

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH **THE PROJECT SPECIFICATIONS AND** THE REQUIREMENTS LISTED BELOW :

a. FOOTINGS, GRADE BEAMS, FOUNDATION WALLS :

1. WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED (EXPOSURE CATEGORY F0) :

a. 28 DAY COMPRESSIVE STRENGTH : 3000 PSI b. INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0) :

1. 28 DAY COMPRESSIVE STRENGTH : 3000 PSI

WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS

SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE

REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC. REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36"O.C. MAXIMUM SPACING.

6. WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED.

FOOTINGS AND FOUNDATION WALLS HAVE BEEN DESIGNED USING A 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. SPECIAL INSPECTIONS ARE NOT REQUIRED.

### F. ADHESIVE/MECHANICAL ANCHORS

WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN

4. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).

ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.

6. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP

CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.

INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE

CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR

EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.

9. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:

a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-A (ESR-3187).

b. SIMPSON SET-3G (ÈSR-4057), OR AT-XP (ER-0263). DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER).

10. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:

a. HILTI KWIK BOLT TZ (ESR-1917). b. SIMPSON STRONG-BOLT 2 (ESR-3037).

11. UNLESS NOTED OTHERWISE, ALL MECHÁNICAL ANCHORS INTO MASONRY SHALL BE:

a. HILTI KWIK HUS-EZ (ESR-3056). b. SIMPSON STRONG BOLT 2 WEDGE ANCHOR (ER-0240).

c. DEWALT SCREWBOLT+ (ESR-4042).

12. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE: a. SIMPSON TITEN HD (ESR-2713).

b. DEWALT SCREWBOLT+ (ESR-2526).

c. HILTI KWIK HUS-EZ (ESR-3027). 13. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO MASONRY SHALL BE:

a. SIMPSON TITEN HD (ESR-1056).

b. DEWALT SCREWBOLT+ (ESR-1678). c. HILTI KWIK HUS EZ (ESR-3056).

14. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOLID GROUTED.

15. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.

16. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW

17. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

a. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.

4

- 2. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
- 3. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER.
- 4. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3. 5. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE : a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3" b. EXPOSED TO EARTH OR WEATHER :
  - #6 & LARGER ..... 2"
- 2. #5 & SMALLER .....1-1/2" c. NOT EXPOSED TO WEATHER OR EARTH :
- SLABS, WALLS, JOISTS, #11 & SMALLER ..... 3/4"
- 2. BEAMS, COLUMNS: MAIN REINFORCING OR TIES ..... 1-1/2" 6. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
- REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
- 8. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE
- ASTM A-706 REINFORCING. 9. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED
- TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES. 10. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL
- SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
- 11. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

LEGEND OF SYMBOLS AND ABBREVIATIONS							
AB	=	ANCHOR BOLT					
ARCH	=	ARCHITECT		SHEET NUMBER			
BLW	=	BELOW	$\bullet$	TOP OF FOUNDATION WALL OR			
CL	=	CENTERLINE		COLUMN PIER ELEV.			
COL	=	COLUMN	•	SHEAR WALL - SEE SCHEDULE			
CONC	=	CONCRETE PIER	•	MIN. LENGTH OF SHEAR WALL			
DC	=	DEMAND CRITICAL					
DIA / Ø DBA	=	DIAMETER DEFORMED BAR ANCHOR	, Š				
DBE	=	DECK BEARING ELEVATION		HD - SIMPSON HOLDOWN SIZE POST -			
ELEV EN	=	ELEVATION EDGE NAILING	the fr	SIZE OF END POST CONNECTED TO HOLDOWN "A" - PLAN			
EOD	=	EDGE OF DECK	200	CONFIGURATION AT HOLDOWN AT			
FDN FTG	=		$\otimes$	FOUNDATION			
FFE	=	FINISHED FLOOR ELEVATION					
JBE	=	JOIST BEARING ELEVATION	T	ERAMING ANGLE SEE TYRICAL DETAIL			
MAX	=	MAXIMUM	L	TRAINING ANGLE SEE TIFICAL DETAIL			
MECH	=	MECHANICAL	C	FRAMING CHANNEL SEE TYPICAL			
MEZZ MIN	=	MEZZANINE		DETAIL			
NS, FS	=	NEAR SIDE, FAR SIDE		ITEMS, DETAILS, & SYSTEMS WHICH			
OAE	=	OR APPROVED EQUAL	(L)	ARE PART OF THE LATERAL FORCE			
PAF	=	POWDER ACTUATED FASTENER	$\smile$				
	=			MOMENT RESISTING CONNECTIONS -			
REINF REQ'D	=	REQUIRED		SEE DETAIL			
SIM	=	SIMILAR		MOMENT RESISTING CANTILEVER			
TOC	=	TOP OF BEAM ELEVATION		CONNECTIONS - SEE DETAIL			
TOF	=	TOP OF FOOTING	<u> </u>	KICKER BRACE			
TOG	=	TOP OF GIRDER ELEVATION					
TOS	=	TOP OF STEEL ELEVATION					
TYP	=						
UNU	=	UNLESS NUTED UTHERWISE					

SHEET NUMBER	
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES
S003	SCHEDULES
S101	SLAB PLAN
S102	MEZZANINE FRAMING P
S201	DETAILS
S202	DETAILS

Structural Shee	et Index		
SHE	ET NAME		
PLAN			

D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com
	A R S S S S S S S S S S S S S S S S S S
С	ph. 801.782.6008 fx. 801.782.4656
	MEZZANINE RENOVATION
В	2913 GRANT AVE       OGDEN, UTAH 84401       MARK     DATE       DESCRIPTION
A	ISSUE DATE:DEC/2019PROJECT NO:19310ARW PROJECT NO:19292CAD DWG FILE:19292DRAWN BY:TJMCHK'D BY:ATHBID SET20 December 2019SHEET TITLEImage: Stress of the
	STRUCTURAL NOTES SHEET NO: S001

н	I. TIMBER	I. NON-STRUCTURAL DELEGATE
D	<ol> <li>WOOD GRADES (UNLESS NOTED OTHERWISE)         <ul> <li>ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:</li></ul></li></ol>	<ol> <li>NON-STRUCTURAL DELEGATION</li> <li>NOT INCLUDED IN THE STRUCRITICAL TO THE OVERALL AND FORCES TO THE STRUCRICTURAL DEFERF PROFESSIONAL RESPONSION</li> <li>ARW ENGINEERS WILL REV CRITERIA IS COMPLIANT WI</li> <li>IF THE STRUCTURAL DRAW THE CONTRACTOR SHALL SELEMENTS COMPLY WITH T BEAR THE STAMP AND SIGN</li> <li>IF THE NON-STRUCTURAL DIA IN EXCESS OF THOSE INDIC A DETAILED GRAPHICAL RE</li> </ol>
	<ul> <li>APPROVED EQUAL.</li> <li>SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE : <ul> <li>LOCATION</li> <li>THICKNESS</li> <li>PANEL INDEX</li> <li>WALLS :</li> <li>15/32"</li> <li>24/0</li> <li>FLOORS :</li> <li>23/32"</li> <li>48/24</li> </ul> </li> <li>INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO.</li> <li>ALL 23/32" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE.</li> <li>CONNECTIONS, FASTENERS, AND ADHESIVE <ul> <li>ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER</li> <li>ASTM</li> </ul> </li> </ul>	LOCATION. THE GRAPHIC S STRUCTURAL ELEMENT DE LETTER SHALL BEAR THE S THE DESIGN. 6. NON-STRUCTURAL DELEGA BUT ARE NOT LIMITED TO : a. SEISMIC BRACING OF A WHERE REQUIRED BY T DOCUMENTS. J. EXISTING BUILDING NOTES
C	<ul> <li>b. UNLESS NOTED OTHERWISE, 10d COMMON (0.148) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD FLOOR AND ROOF SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS: <ol> <li>BOUNDARY NAILING "BN": 6"O.C. AT ALL BEARING WALLS, SHEAR WALLS, BLOCKING, AND WHERE</li> <li>OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.</li> <li>PANEL EDGE NAILING "EN": 6"O.C. AT ALL OTHER PLYWOOD PANEL EDGES.</li> <li>PANEL FIELD NAILING "FN": 12"O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL. ENGINEER</li> </ol> </li> <li>UNLESS NOTED OTHERWISE IN THE WOOD SHEAR WALL SCHEDULE ON SHEET S002, 10d COMMON (0.131) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD SHEAR WALL SHEATHING TO STUDS AND BLOCKING AS FOLLOWS: <ol> <li>PANEL FIELD NAILING "EN": 6"O.C.</li> <li>PANEL FIELD NAILING "FN": 12"O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.</li> </ol> </li> <li>MAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING.</li> <li>UNLESS NOTED OTHERWISE, ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES : COMMON SHANK HEAD LENGTH MIN. PENETRATION INTO SUPPORT MEMBER 64 0.01412" 0.266" 2" 1.25"</li> </ul>	<ol> <li>ARW ENGINEERS EXPRESS BUILDING NOT SPECIFICALL</li> <li>DRAWINGS AND DETAILS H. CONFIGURATIONS OF STRU RESPONSIBLE FOR VERIFYI DISCREPANCIES FOUND PF</li> <li>THE CONTRACTOR IS RESP THE BUILDING REMAIN STA OWNER, THE CONTRACTOF TEMPORARY SUPPORT OF COMPLETED.</li> </ol>
	<ul> <li>8d 0.131" 0.281" 2-1/2" 1.375"</li> <li>10d 0.148" 0.312" 3" 1.50"</li> <li>12d 0.148" 0.312" 3" 1.50"</li> <li>12d 0.148" 0.312" 3-1/4" 1.50"</li> <li>16d 0.162" 0.344" 3-1/2" 1.62"</li> <li>f. A CONTINUOUS BEAD OF PERMANENT BOND TIMBER/WOOD ADHESIVE COMPOUND SHALL BE USED TO FASTEN ALL PLYWOOD FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.</li> <li>g. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA, UNLESS NOTED OTHERWISE.</li> <li>h. UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR FOOTINGS WITH 3/8" DIAMETER 2-1/2" LONG SIMPSON TITEN HD ANCHOR BOLTS AT 32"O.C. THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END OF EACH PIECE.</li> <li>i. WALL BOTTOM PLATES AT SHEAR WALLS SHALL INCLUDE 1/4" x 3" x 3" STEEL PLATE WASHERS BETWEEN THE SILL PLATE AND NUT OF THE ANCHOR BOLT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SI OTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT</li> </ul>	
В	<ul> <li>DERMITTED DE DIAGONALLY SIGNED TED WITH A WIDTA ON TO STATE DARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN ½" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE.</li> <li>J. FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE- RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL TREATED LUMBER AND BORATE BASED TREATMENTS) SHALL BE OF G-185 HOT-DIP GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.</li> <li>k. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.1. CONNECTIONS FOR MULTIPLE. PIECES OF ENGINEERED LUMBER PIECES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.</li> <li>B. PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SOLID BLOCKING UNDER PERPENDICULAR NONBEARING WALLS.</li> <li>7. PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SUPPORT LOCATIONS FOR ALL JOISTS AND RAFTERS. BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A35 FRAMING ANCHOR BETWEEN JOISTS UNLESS NOTED OTHERWISE.</li> <li>8. UNLESS NOTED OTHERWISE, ALL BEARING WALLS SHALL BE 2X6 SPACED AT 16"O.C. BLOCK ALL NON- SHEATHED BEARING WALLS AT 3-0"O.C.</li> <li>9. VERIFY THE STUD SPACING WITH THE ANCHOR BOLT LAY-OUT. WHERE STUDS INTERFERE WITH ANCHOR BOLTS, PROVIDE AN ADDITIONAL FULL-HEIGHT STUD TO ENSURE THAT THE FULL CROSS- SECTIONAL AREA OF THE STUD IS IN CONTACT WITH THE SILL PLATE.</li> <li>10. UNLESS NOTED OTHERWISE, ALL SHEAR WALLS SHALL HAVE DOUBLE 2X TOP PLATES THAT ARE SPLICED TOGETHER WITH A MINIMUM OF 36" OF OVERLAP AND SHALL BE CONNECTED TOGETHER WITH A MINIMUM OF (20) 100 COMMON NAILS EACH SIDE OF THE SPLICE. OUTSIDE OF THESE SPLICE LOCATIONS, TOP PLATES SHALL BE NAILED TOGETHER WITH THE MINIMUM OF (20) TO COMMON NAILS EACH SIDE OF</li></ul>	
A		
IT IS REDUCE	A REDUCED PRINT. E SCALE ACCORDINGLY 1	2

1

(C) COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

### CTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

2

RUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS CLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT AL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPART LOADS PRCES TO THE STRUCTURAL SYSTEM.

RUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN SSIONAL RESPONSIBLE FOR THE DESIGN. NGINEERS WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN

A IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS. TRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS.

INTRACTOR SHALL SUBMIT DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL NTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL HE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN. NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPART FORCES ESS OF THOSE INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT ILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND ON. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-TURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE & SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR

SIGN. RUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE,

MIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS RE REQUIRED BY THE MOST RECENT VERSION OF ASCE 7 AND THE PROJECT CONTRACT

NGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ANY PORTION OF THE EXISTING IG NOT SPECIFICALLY ADDRESSED IN THESE DRAWINGS.

NGS AND DETAILS HAVE BEEN PREPARED TO REFLECT THE EXISTING CONDITIONS AND GURATIONS OF STRUCTURAL ELEMENTS. HOWEVER, THE CONTRACTOR IS ULTIMATELY NSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND ALERTING THE ENGINEER OF ANY PANCIES FOUND PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS. INTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE BUILDING AND ELEMENTS WITHIN ILDING REMAIN STABLE UNTIL CONSTRUCTION IS COMPLETE. AT NO ADDITIONAL COST TO THE R, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHORING OR OTHER RARY SUPPORT OF STRUCTURAL MEMBERS UNTIL THE FINAL CONFIGURATION HAS BEEN

D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com
	A B B B B B B B B B B B B B B B B B B B
С	STAMP
	MEZZANINE
	RENOVATION
В	RENOVATION2913 GRANT AVE OGDEN, UTAH 84401MARKDATEDESCRIPTION
В	RENOVATION2913 GRANT AVE OGDEN, UTAH 84401MARKDATEDESCRIPTIONMARKDATEDESCRIPTIONISSUE DATE:DEC/2019PROJECT NO:19310ARW PROJECT NO:19292CAD DWG FILE:ISSUEDRAWN BY:TJMCHK'D BY:ATHBID SET20 December 2019SHEET TITLE
B	SHEET NO:

		(NOTE	8) EDGE NAILING	NOMINAL	(NOTE 7)	CC		NAILING	TYP. SIL	L PLATE R BOLTS	
WALL M	ARK LEVE	L PLYWO SHEATH (CDX U.N	DD (E.N.) (SEE NG NOTES 2 & .0.) 3)	BOTTOM PLATE SIZE	NOM. STUD SIZE (MIN.)	NAILING TOP PL. TOGETHER (B)	BLKG. TO TOP PL. Ĉ	TOP PL. SPLICE	DIA.	SPA.	
SW-	1ST TO 2	2ND 15/32'	10d @ 6"o.c	2x	2x		A35	10d @ 6"o.c.	- 3/8"Ø x 2 1/2" TITEN HD	32"o.c.	
NOTES	:					I				1	
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST, 6. 3x FR, CO 7. SH 8. SE 9. SE 10. TO	: SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL E DETAIL 6/S201 E THIS SHEET FO P PLATE SPLICE	ANEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO 10N. BE STAMPED W FOR HOLDOWN OR TYPICAL SHE NAILING SHALL	BE BLOCKED. USE /ANIZED BOX. ) 12"o.c. N BOTH SIDES, BO TES. OCCUR AT ABUT GETHER W/ (2) 16d APA STAMP. O.S. ANCHORAGE REC AR TRANSFER DE APPLY TO EACH S	3x BLOCKING W DTH VERTICAL AN TING PANEL EDG NAILS @ 16"o.c. B. OF EQUIVALEN B. OF EQUIVALEN UIREMENTS. TAILS. SIDE OF THE SPLI	HERE 3x STU ND HORIZONT GES. 2x NOMI OR 4x NOMIN NT THICKNES CE. THE LEN	IDS ARE REQUINTS OF AN INGLE FRAMING IN IS, GRADE, AN INGLE THE CONTRACT OF THE CONTRACT.	JIRED. N OPPOSITE : MEMBERS OF ID RATING M/ OVERLAP SH/	SIDES OF THE MAY BE USED THE SAME D AY BE USED IN ALL BE SUFFIC	E WALL SH AT INTER DEPTH ANI N LIEU OF CIENT TO	iall be s ior of P d Lumbe plywoo preven	STAGGE PANEL, U R GRAD DD. T SPLIT
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST/ 6. 3x FR/ CO 7. SH 8. SE 9. SE 10. TO	: SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS V AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL E DETAIL 6/S201 E THIS SHEET FO P PLATE SPLICE	ANEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO TON. BE STAMPED WA FOR HOLDOWN OR TYPICAL SHE NAILING SHALL	BE BLOCKED. USE /ANIZED BOX. 12"o.c. N BOTH SIDES, BO TES. OCCUR AT ABUT SETHER W/ (2) 160 APA STAMP. O.S. ANCHORAGE REC ANCHORAGE REC ANCHORAGE REC ANCHORAGE REC ANCHORAGE ADD OF EQUIN	ALENT I	HERE 3x STU ND HORIZONT GES. 2x NOMI OR 4x NOMIN NT THICKNES CE. THE LEN	IDS ARE REQUINTS OF AL JOINTS OF AL FRAMING NAL FRAMING S, GRADE, AN GTH OF THE OF ALL	JIRED. N OPPOSITE S MEMBERS OF ID RATING M/ OVERLAP SH/	SIDES OF THE	E WALL SH AT INTER DEPTH AND N LIEU OF CIENT TO	IALL BE S IOR OF P D LUMBE PLYWOO PREVEN	STAGGE 'ANEL, U 'R GRAD DD. T SPLIT
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST 6. 3X FR. CO 7. SH 8. SE 9. SE 10. TO	: SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS N AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL E DETAIL 6/S201 E THIS SHEET FO P PLATE SPLICE	NEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO 10N. BE STAMPED W FOR HOLDOWN DR TYPICAL SHE NAILING SHALL NAILING SHALL	BE BLOCKED. USE /ANIZED BOX. ) 12"o.c. N BOTH SIDES, BO TES. ) OCCUR AT ABUT SETHER W/ (2) 16d CAPA STAMP. O.S. ANCHORAGE REC ANCHORAGE REC ANCHORAGE REC APPLY TO EACH S OF EQUIVAL	3x BLOCKING W DTH VERTICAL AN TING PANEL EDO NAILS @ 16"o.c. B. OF EQUIVALEN QUIREMENTS. TAILS. SIDE OF THE SPLI	HERE 3x STU ND HORIZONT GES. 2x NOMI OR 4x NOMIN NT THICKNES CE. THE LEN FASTEN ERAL LOADS	IDS ARE REQUINTS OF AL JOINTS OF AL FRAMING NAL FRAMING IAL FRAMING IS, GRADE, AN GTH OF THE OF AL OF	JIRED. N OPPOSITE S MEMBERS M MEMBERS OF ID RATING M/ OVERLAP SH/	SIDES OF THE MAY BE USED THE SAME D AY BE USED IN ALL BE SUFFIC	E WALL SH AT INTER DEPTH ANI N LIEU OF CIENT TO	IALL BE S IOR OF P D LUMBE PLYWOO PREVEN	STAGGE PANEL, U R GRAD DD. T SPLIT
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST/ 6. 3x FR/ CO 7. SH 8. SE 9. SE 10. TO 	SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS V AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL DETAIL 6/S201 THIS SHEET FA P PLATE SPLICE	ANEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO 10N. BE STAMPED W FOR HOLDOWN OR TYPICAL SHE NAILING SHALL NAILING SHALL STAPLES, N	BE BLOCKED. USE /ANIZED BOX. 12"o.c. N BOTH SIDES, BO TES. OCCUR AT ABUT SETHER W/ (2) 16d APA STAMP. O.S. ANCHORAGE REC AR TRANSFER DE APPLY TO EACH S OF EQUIVALE STAPLES	3x BLOCKING W DTH VERTICAL AN TING PANEL EDO NAILS @ 16"o.c. B. OF EQUIVALE QUIREMENTS. TAILS. SIDE OF THE SPLI	HERE 3x STU ND HORIZONT GES. 2x NOMI OR 4x NOMIN NT THICKNES CE. THE LEN FASTEN ERAL LOADS APPROVED F	IDS ARE REQUINTS OF AL JOINTS OF AL FRAMING IAL FRAMING IAL FRAMING IS, GRADE, AN GTH OF THE OF THE OF NERS	JIRED. N OPPOSITE 3 MEMBERS OF ID RATING M/ OVERLAP SH/	SIDES OF THE MAY BE USED THE SAME D AY BE USED IN ALL BE SUFFIC	E WALL SH AT INTER DEPTH ANI N LIEU OF	IALL BE S IOR OF P D LUMBE PLYWOO PREVEN	STAGGE PANEL, U R GRAD DD. T SPLIT
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST/ 6. 3X FR. CO 7. SH 8. SE 9. SE 10. TO 	SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS N AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL DETAIL 6/S201 THIS SHEET FO P PLATE SPLICE	NEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO 10N. BE STAMPED W, FOR HOLDOWN DR TYPICAL SHE NAILING SHALL NAILING SHALL STAPLES, N 16 1" 3 1/2"	BE BLOCKED. USE /ANIZED BOX. 9 12"o.c. N BOTH SIDES, BO TES. 0 OCCUR AT ABUT SETHER W/ (2) 16d APA STAMP. O.S. ANCHORAGE REC APPLY TO EACH S OF EQUIVALE STAPLES 15 1" 4"	3x BLOCKING W DTH VERTICAL AN TING PANEL EDO NAILS @ 16"o.c. B. OF EQUIVALEN QUIREMENTS. TAILS. SIDE OF THE SPLI ALENT F S (VALID FOR LAT S (VALID FOR LAT 14 1" 5"	HERE 3x STU ND HORIZONT GES. 2x NOMIN OR 4x NOMIN NT THICKNES CE. THE LEN FASTEN ERAL LOADS APPROVED F .11 1 1/ 4	IDS ARE REQUINAL FRAMING IAL FRAMING IAL FRAMING IS, GRADE, AN IGTH OF THE ON NERS	JIRED. N OPPOSITE S MEMBERS OF ID RATING M/ OVERLAP SH/ OVERLAP SH/ -NAILS .13 1 1/2 5"	SIDES OF THE MAY BE USED THE SAME D AY BE USED IN ALL BE SUFFIC	E WALL SH AT INTER DEPTH ANI N LIEU OF CIENT TO	IALL BE S IOR OF P D LUMBE PLYWOO PREVEN	STAGGE ANEL, U R GRAD DD. T SPLIT
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST/ 6. 3X 7. SH 9. SE 10. TO CON S PI PI CON	SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS N AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL DETAIL 6/S201 THIS SHEET FO P PLATE SPLICE MON NAIL PACING GAUGE ENETRATION 4" 6" 8" 10"	ANEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO TON. BE STAMPED W FOR HOLDOWN DR TYPICAL SHE NAILING SHALL STAPLES, N 16 16 1" 3 1/2" 5" 6 1/2" 8 1/2"	BE BLOCKED. USE /ANIZED BOX. 9 12"o.c. N BOTH SIDES, BO TES. 0 OCCUR AT ABUT SETHER W/ (2) 16d 7 APA STAMP. O.S. ANCHORAGE REC ANCHORAGE REC ANCHO	3x BLOCKING W DTH VERTICAL AN TING PANEL EDO NAILS @ 16"o.c. B. OF EQUIVALED UIREMENTS. TAILS. DDE OF THE SPLI ALLENT F S (VALID FOR LAT NT SPACING OF 14 14 1" 5" 7" 9 1/2" 12"	HERE 3x STU ND HORIZONT GES. 2x NOMI OR 4x NOMIN NT THICKNES CE. THE LEN FASTEN ERAL LOADS APPROVED F .11 1 1/ 4" 6" 8"	IDS ARE REQUINTS OF AL JOINTS OF AL FRAMING AL FRAMING AL FRAMING AL FRAMING AL FRAMING AND AL F	JIRED. N OPPOSITE S MEMBERS M MEMBERS OF ID RATING M/ OVERLAP SH/ OVERLAP SH/ -NAILS .13 1 1/2 5" 7 1/2 10' 12'	SIDES OF THE MAY BE USED THE SAME D AY BE USED IN ALL BE SUFFIC	E WALL SH AT INTER DEPTH ANI N LIEU OF CIENT TO	IALL BE S IOR OF P D LUMBE PLYWOO PREVEN	STAGGE ANEL, U R GRAD DD. T SPLIT
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST/ 6. 3X FR. 7. SE 9. IO CONS PI CONS PI CONS	SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS N AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL E DETAIL 6/S201 E DETAIL 6/S2	ANEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO TON. BE STAMPED W, FOR HOLDOWN OR TYPICAL SHE NAILING SHALL TABLE STAPLES, N 16 16 1" 3 1/2" 5" 6 1/2" 8 1/2" 10" 2 1/2" 4" 5 1/2"	BE BLOCKED. USE /ANIZED BOX. 9 12"o.c. N BOTH SIDES, BO TES. 0 OCCUR AT ABUT SETHER W/ (2) 16d APA STAMP. O.S. ANCHORAGE REC ANCHORAGE REC ANCHORA	ALENT SPACING OF ALENT SPACING OF ALENT SPACING OF 14 17 12" 14 1/2" 4" 6" 8"	HERE 3x STU ND HORIZONT GES. 2x NOMI OR 4x NOMIN NT THICKNES CE. THE LEN ERAL LOADS APPROVED F .11 1 1/ 4" 6" 8" 10 12 3 1/ 5" 6 1/	IDS ARE REQUINAL FRAMING	JIRED. N OPPOSITE S MEMBERS OF ID RATING M/ OVERLAP SH/ OVERLAP SH/ -NAILS -NAILS .13 1 1/2 5" 7 1/2 10" 12" 14 1/ 4" 6" 8"	SIDES OF THE	E WALL SH AT INTER DEPTH AND N LIEU OF CIENT TO	IALL BE S IOR OF P D LUMBE PLYWOO PREVEN	STAGGE 'ANEL, U 'R GRAD DD. T SPLIT
NOTES 1. ALI 2. ALI 3. FIE 4. AT 5. ST, 6. 3X 7. SH 9. 10. TO PI CON S PI 	SHEATHING PA NAILS TO BE C LD NAILING TO I SHEAR WALLS N AGGER E.N. AT I NOMINAL FRAMI AMING NOTES. ( NTRACTOR OPT EATHING SHALL E DETAIL 6/S201 E THIS SHEET FO P PLATE SPLICE MON NAIL PACING GAUGE ENETRATION 4" 6" 8" 10" 12" 4" 6" 8" 10" 12" 4"	NEL EDGES TO I OMMON OR GAL BE SAME NAILS ( W/ SHEATHING O DOUBLE TOP PLA NG MEMBERS TO 2) 2x NAILED TOO TON. BE STAMPED W. FOR HOLDOWN DR TYPICAL SHE NAILING SHALL NAILING SHALL STAPLES, N 16 16 1" 3 1/2" 5" 6 1/2" 8 1/2" 10" 2 1/2" 4" 5 1/2" 6 1/2" 8" 2"	BE BLOCKED. USE /ANIZED BOX. 9 12"o.c. N BOTH SIDES, BO TES. 0 OCCUR AT ABUT D OCCUR AT ABUT D OCCUR AT ABUT D OCCUR AT ABUT D OCUR AT ABUT ANCHORAGE REC ANCHORAGE REC ANCHOR	3x BLOCKING W DTH VERTICAL AN TING PANEL EDO NAILS @ 16"o.c. B. OF EQUIVALED QUIREMENTS. TAILS. SIDE OF THE SPLI ALLENT F S (VALID FOR LAT S (VALID FOR S (VALID FOR LAT S (VALID FOR S (VALID FOR	HERE 3x STU ND HORIZONT GES. 2x NOMI OR 4x NOMIN NT THICKNES CE. THE LEN ERAL LOADS APPROVED F .111 1 1/ 4" 6" 8" 10 12 3 1/ 5" 6 1/ 8" 9 1/ 2 1/	IDS ARE REQUINAL FRAMING IAL FRAMING IAL FRAMING IS, GRADE, AN IGTH OF THE I NAILS & T 3 (4" 5 NAILS & T 3 (4" 5 NAILS & T 3 (4" 5 (1) (2" (2" (2") (2") (2") (2") (2") (2")	JIRED. N OPPOSITE 3 MEMBERS OF ID RATING M/ OVERLAP SH/ OVERLAP SH/ -NAILS -NAILS -NAILS -11/2 5" 7 1/2 10' 12' 14 1/ 4" 6" 8" 10' 12' 3 1/2	SIDES OF THE	E WALL SH AT INTER DEPTH AND N LIEU OF CIENT TO	IALL BE S IOR OF P D LUMBE PLYWOO PREVEN	STAGGE ANEL, U R GRAD DD. T SPLIT



IF SHEET IS LESS THAN 22"x 34" IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

C COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED



			SPECIAL INSPEC	TION	SCHEDULE <sup>1, 2</sup>
		E	STABLISHED PER 2018 IBC	SECT	ION 110 AND CHAPTER 17
ITEM	CONTINUOUS <sup>3</sup>	PERIODIC <sup>3</sup>	REFERENCE		C
WOOD (IBC 1705.5 & 1705.11.1 & 1705.12.2) HIGH LOAD DIAPHRAGMS (ROOF / FLOOR) SITE-BUILT ASSEMBLIES SHEAR WALL & DIAPHRAGM NAILING DRAG STRUTS BRACES & SHEAR PANELS HOLDOWNS GLUING OPERATIONS METAL-PLATE-CONNECTED WOOD TRUSSES WITH HEIGHTS GREATER THAN OR EQUAL TO 60"			REFERENCE NOTE W1 REFERENCE NOTE W2 REFERENCE NOTE W2 REFERENCE NOTE W2	W1. W2. W3.	WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSP WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF F DIAMETER AND LENGTH, THE NUMBER OF FASTENER LI MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FO SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SH OTHER FASTENING TO OTHER COMPONENTS WHERE T SPECIAL INSPECTION SHALL BE PERFORMED TO VERIF' RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE W
METAL-PLATE-CONNECTED WOOD TRUSSES WITH SPANS GREATER THAN OR EQUAL TO 60 FEET		•	REFERENCE NOTE W3		
1. THE ITEMS MARKED WITH A "●" IN THE SPECIAL INSPEC REFER TO THE MATERIAL SAMPLING AND TESTING SEC ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. AN	TION SCHEDULE S TION, THE PROJEC Y ITEMS WHICH FA	HALL BE INSPEC T SPECIFICATION IL TO COMPLY W	GENERAL SPECIA TED IN ACCORDANCE WITH IBC CHAPTER 1 IS, AND THE SPECIFIC GENERAL NOTES SEI ITH THE APPROVED CONSTRUCTION DOCU	L INSP 7 BY A CER CTIONS. TH MENTS SHA	ECTION NOTES : TIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TEST THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCT ALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF TH









5 REQUIREMENTS, SEE STRUCTURAL NOTES SHEET S001. BELOW THE FRAMING SHOWN. SEE THE SHEAR WALL SCHEDULE,	СLН
DETAILS. BEARING WALLS SHALL BE 2X6 @ 16" O.C. OTHER WALLS TO BE	A R C H I T E C T S E N G I N E E R S
	D Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
EXISTING 16"	A R W ENGINEEPS
	structural consultants 1594 W. Park Cir. Ogden, Utah 84404 ph. 801.782.6008 fx. 801.782.4656 STAMP
	С
	GIVE ME A CHANCE A DAUGHTERS OF CHARITY Ministry
	MEZZANINE RENOVATION
	B 2913 GRANT AVE OGDEN, UTAH 84401 MARK DATE DESCRIPTION
	ISSUE DATE:DEC/2019PROJECT NO:19310
	ARW PROJECT NO: 19292
	DRAWN BY: TJM
	CHK'D BY: ATH BID SET
	20 December 2019
	SHEET TITLE
	A MEZZANINE FRAMING PLAN
	SHEET NO:
5	S102





1		2
		ARCHITECTURAL NOTES
		1. THE ARCHITECTURAL DRAWINGS ARE THE PRIMA ANY CONFLICTS BETWEEN ARCHITECTURAL DRAV CONDITIONS AND/OR DRAWINGS OF OTHER DISC REPORTED TO THE ARCHITECT.
		2. THE CONTRACTOR SHALL VERIFY ALL EXISTING C ITEMS AND DIMENSIONS BETWEEN EXISTING AND PROJECT SHALL BE VERIFIED TO ENSURE COORD
		3. THE CONTRACTOR SHALL SUBMIT ANY PROPOSE OF THE CONTRACT DOCUMENTS, IN WRITING, TO PROCEEDING WITH ANY ACTION.
		4. WHERE SPECIFIC DETAILS ARE NOT PROVIDED, T STANDARD DETAILS SHALL APPLY. IF FURTHER DI ARCHITECT.
		5. DETAILS ARE PROVIDED FOR VISUAL REPRESENT OFTEN THE DETAILS ARE BASED ON A BASIS-OF-D MATERIAL AND MAY BE DIAGRAMMATIC IN NATUR
		6. IF A DIFFERENT PRODUCT OR MATERIAL FROM TH DRAWINGS OR SPECIFICATIONS IS SUBSTITUTED, THE CONTRACTOR TO PROVIDE ALTERNATE DETA ARCHITECT TO REVIEW.
		7. GENERALLY, DIMENSIONS SHOWN OF ARCHITECT FROM THE CORE STRUCTURE FACE (IE. CONCRET WALL=FACE OF STUD).
		8. ANY ADDITIONAL BLOCKING, BRACING, TRIM, FLAS REQUIRED FOR INSTALLATION OF COMPLETE SYS WINDOWS, OPENINGS, PENETRATIONS, ETC. ARE AND INSTALLED BY THE CONTRACTOR
		9. ASSUME ALL GYP. BD. WALLS TO HAVE TOPSET R UNLESS NOTED OTHERWISE.
		10. PROVIDE SEALANT OR TRIM AS APPROPRIATE WH COME IN CONTACT.
		<ol> <li>PROVIDE FLOORING TRANSITION WHERE DISSIMII</li> <li>12. OCCUR.</li> </ol>
		PAINT ALL MISCELLANEOUS SURFACES, SUPPOR PERMANENTLY ATTACHED TO PAINTED SURFACE ELEMENTS.
		6"
E E		
AREA OF REFUGE		
AREA BHAILLE	AREA	AREA BRAILLE

А

IF SHEET IS LESS THAN 22"x 34" IT IS A REDUCED PRINT.

D

С

В

![](_page_13_Picture_2.jpeg)

2

 $(A1)^{3"=1'-0"}$ 

TYP. SIGNS

PRIMARY CONTRACT DOCUMENTS.
AL DRAWINGS AND EXISTING
R DISCIPLINES SHALL BE IMMEDIATELY

3

TING CONDITIONS PRIOR TO AY WORK. IG AND NEW PORTIONS OF THE COORDINATION.

DPOSED CHANGES OR MODIFICATIONS NG, TO THE ARCHITECT BEFORE

DED, TYPICAL OR SIMILAR INDUSTRY HER DETAIL IS REQUIRED CONTACT

ESENTATION OF DESIGN INTENT. IS-OF-DESIGN PRODUCT AND/OR NATURE.

ROM THAT INDICATED ON THE TUTED, IT IS THE RESPONSIBILITY OF TE DETAILS AS REQUIRED FOR THE

HITECTURAL DRAWINGS ARE TAKEN DNCRETE WALL=FACE OF WALL; STUD

M, FLASHING, SEALANTS, ETC. TE SYSTEMS\_PERTAINING TO DOORS, C. ARE EXPECTED TO BE PROVIDED

PSET RUBBER BASE INSTALLED

ATE WHERE DISSIMILAR MATERIALS

DISSIMILAR FLOORING MATERIALS

JPPORTS, METALS, ETC. IF RFACE OR EXPOSED TO THE

![](_page_13_Figure_17.jpeg)

SYMBOLS				
1 View Name	VIEW TITLE			
0 1" 2"	GRAPHIC SCALE			
	NORTH ARROW w/ TRUE NORTH			
0	GRID INDICATOR			
1 SIM A101	SECTION CALLOUT			
	DETAIL CALLOUT			
1 SIM A101	DETAIL CALLOUT			
	ELEVATION CALLOUT			
Name Elevation	LEVEL / ELEVATION CALLOUT			
100'-0"	SPOT ELEVATION CALLOUT			
1:12	ROOF SLOPE INDICATOR			
Room name	ROOM TAG			
(101A)	DOOR TAG			
A	WALL TAG			
	WINDOW TAG			
	DEMOLITION KEYNOTE			
Ê	FIRE RISER			

&	AND
L	ANGLE
@	AT
#	POUND OR N
AC	ACOUSTICAL
A.F.F.	ABOVE FINISH
ALUM	ALUMINUM
APPROX	APPROXIMAT
ARCH	ARCHITECTU
ASPH	ASPHALT
BD	Board
BITUM	Bituminous
BLDG	Building
BLKG	Blocking
BRG	Bearing
BTM	Bottom
C C.I. C.J. CLG CLR C.M.U. C.O. C.O.T.G. COL CONC CONSTR CONSTR CONT C.T. CTR	TOP OF FINIS CAST IRON CONTROL JOI CENTER LINE CEILING CLEAR CONCRETE M CLEAN OUT CLEAN OUT CLEAN OUT COLUMN CONCRETE CONNECTION CONSTRUCTI CONSTRUCTI CONTINUOUS CERAMIC TILE CENTER
D.C.W.	Domestic CC
D.H.W.	Domestic HC
D.F.	Drinking Fo
DTL	Detail
DIA	Diameter
DIM	Dimension
DISP	Dispenser
DN	Down
DRN	Drain
DS	Downspout
DWG	Drawing
e EA E.I.F.S. E.J. ELEC ENGR EQ EQUIP (E) EXP EXT	EAST EACH EXTERIOR INS EXPANSION J ELEVATION ELECTRICAL ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXTERIOR
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.E.	FIRE EXTINGU
F.E.C.	FIRE EXTINGU
FIN	FINISH
FLR	FLOOR
FLASH	FLASHING
FLUOR	FLUORESCEN
F.O.	FACE OF
F.R.	FIRE RATED
FT	FOOR OR FEE
FTG	FOOTING
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GND	GROUND
GR	GRADE
G.W.B.	GYPSUM WAL
GYP	GYPSUM
H.B.	HOSE BIBB
HC	HANDICAP
H.M.	HOLLOW MET
HORIZ	HORIZONTAL
HGT	HEIGHT
I.D.	INSIDE DIAME
IN	INCH, INCHES
INSUL	INSULATION
INT	INTERIOR

	5		
ABBREVIA	TIONS		]
	JAN JST	JANITOR JOIST	
OR NUMBER	ко JT		
FICAL FINISH FLOOR LIM			
VM KIMATE ECTURAL T NOUS IG NG G A FINISH CONCRETE ION DL JOINT LINE ETE MASONRY UNIT DUT DUT AT GRADE N ETE CTION RUCTION UOUS C TILE TIC COLD WATER IG FOUNTAIN	LAV MAX MAS MECH MEMB MTL MFTR MH MIN MISC M.O. MTD N N.I.C. NO or # NOM N.T.S. O.C. O.D. OFF OH OPNG OPP PL PLAM PLYWD P.O.C. PNL PR	AVAIONY MAXIMUM MASONRY MECHANICAL MEMBRANE METAL MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER (DIM) OFFICE OVERHEAD OPENING OPPOSITE PLATE PLATE PLASTIC LAMINATE PLYWOOD POINT OF CONNECTION PANEL PAIR	
ER ION SER	PT Q.T.	POINT QUARRY TILE	
POUT IG DR INSULATION FINISH SYSTEM SION JOINT ION IICAL	RAD R.D. REF REINF REQD RESIL RFG RM RS R.O.	RADIUS ROOF DRAIN REFERENCE REINFORCED REQUIRED RESILIENT ROOFING ROOM RESINOUS FLOORING ROUGH OPENING	
ER IENT G SION DR DRAIN ATION TINGUISHER TINGUISHER CABINET NG ESCENT F	S SCH SECT SHT SIM SPECS SQ S.S. S.ST STD STL STOR STR SUSP SYM SYS	SOUTH SCHEDULE SECTION SHEET SIMILAR SPECIFICATION SQUARE SANITARY SEWER STAINLESS STEEL STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM	
ITED R FEET G IZED	TLT TRTD T & B T.O. TRANS TYP	TOILET (ROOM) TREATED (PRESERVATIVE TOP & BOTTOM TOP OF TRANSFORMER TYPICAL	
D M WALL BOARD	U.N.O. UT	UNLESS NOTED OTHERWISE URINAL	
M IBB	VERT VEST	VERTICAL VESTIBULE	
AP V METAL NTAL DIAMETER (DIM)	W w/ WC WD W/O	WEST WITH WATER CLOSET WOOD WITHOUT	
iches TION )R	WH NH	WATERPHOOF	

![](_page_13_Picture_21.jpeg)

![](_page_14_Figure_0.jpeg)

AM  

5	D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
		STAMP
	С	
		GIVE ME A CHANCE A DAUGHTERS OF CHARITY Ministry
		WEZZANINE
		RENOVATION
	В	2913 GRANT AVE OGDEN, UTAH 84401
		MARK DATE DESCRIPTION
		ISSUE DATE: DEC 20,2019
		CAD DWG FILE:
		DRAWN BY:AuthorCHK'D BY:Checker
		BID SET
		20 DEC 2019
		SHEET TITLE
	А	
		FLOOR PLANS
		SHEET NO:
5		A101

![](_page_15_Figure_0.jpeg)

<sup>©</sup> COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

AM

## 5 FINISHES LEGEND

WALL FINISHES

FLOOR FINISH -

- BASE FINISH

- WAINSCOT FINISH

CEILING FINISH /

## FINISH SYMBOL

<u>FLOOR</u>

F1- DYED AND POLISHED CONC F2- LUXURY VINYL TILE

BASE **B1- RUBBER TOPSET BASE** 

WAINSCOT WS1-NA

## WALLS

W1- PAINTED GYPSUM BOARD W2- CMU- PAINTED

<u>CEILING</u>

C1- ACOUSTIC TILE ON GYPSUM BOARD C2- ACOUSTIC TILE ON (E) GYPSUM BOARD C3- 2x 2 ACOUSTIC LAY-IN CEILING

D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com
C	STAMP
	CHANCE A DAUGHTERS OF CHARITY Ministry
В	MEZZANINE RENOVATION 2913 GRANT AVE OGDEN, UTAH 84401
	MARK DATE DESCRIPTION ISSUE DATE: DEC 20,2019 PROJECT NO: 19310
	CAD DWG FILE:DRAWN BY:AuthorCHK'D BY:CheckerBID SET20 DEC 2019
	SHEET TITI F
٨	
A	FINISH AND REFLECTED CEILING PLANS
	SHEET NO:
	A102

![](_page_16_Figure_0.jpeg)

ЧМ

	1
D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
C	STAMP
В	Image: Constant of Charity Ministry         Aughters of Charity Ministry
A	ISSUE DATE: DEC 20,2019 PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: Author CHK'D BY: Checker BID SET 20 DEC 2019 SHEET TITLE MEZZANINE PLAN
	SHEET NO: A103

5

-(1)-

![](_page_17_Figure_0.jpeg)

AM

© COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

## **FINISHES LEGEND**

WALL FINISHES ~ FLOOR FINISH ---CEILING FINISH

5

- BASE FINISH

- WAINSCOT FINISH

## FINISH SYMBOL

<u>FLOOR</u>

F1- DYED AND POLISHED CONC F2- LUXURY VINYL TILE

BASE **B1- RUBBER TOPSET BASE** 

WAINSCOT WS1-NA

WALLS W1- PAINTED GYPSUM BOARD W2- CMU- PAINTED

CEILING

C1- ACOUSTIC TILE ON GYPSUM BOARD C2- ACOUSTIC TILE ON (E) GYPSUM BOARD C3- 2x 2 ACOUSTIC LAY-IN CEILING

D	CONSULTANTS
С	STAMP
	THE A CHANCE A DAUGHTERS OF CHARITY MINISTRY
В	RENOVATION2913 GRANT AVE OGDEN, UTAH 84401MARKDATEDESCRIPTION
	ISSUE DATE: DEC 20,2019 PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: Author CHK'D BY: Checker BID SET 20 DEC 2019 SHEET TITLE
Α	MEZZANINE FINISH AND REFLECTED CEILING PLANS SHEET NO: A104

![](_page_18_Figure_0.jpeg)

C COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

>

![](_page_19_Figure_0.jpeg)

C COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

![](_page_19_Figure_4.jpeg)

![](_page_19_Picture_5.jpeg)

![](_page_20_Figure_0.jpeg)

52 AM

![](_page_21_Figure_0.jpeg)

MA

![](_page_21_Figure_3.jpeg)

![](_page_22_Figure_0.jpeg)

C COPYRIGHT - CASE, LOWE & HART, INC. ALL RIGHTS RESERVED

AM

![](_page_23_Figure_0.jpeg)

AM

								4										
	Ι	DOOR SCHEDUL	E															
					HIN	GES						LOCK	SETS				ST	OPS
GLAZING	FIRE RATING	COMMENTS	NUMBER	PIVOTS	BALL BEARING	<b>BRONZE/BRASS</b>	STAINLESS STEEL	N.R. PINS	ENTRANCE	EXIT DEVICE	OFFICE	PASSAGE	PRIVACY	STORE ROOM	FLUSH BOLTS	SURFACE BOLTS	WALL STOP	FLOOR STOP
	1					1		1.	1	1	1				1			1.
		PAIR OF DOORS	6		_		X	X						Х		Х	Х	X
			3				X	Х						Х			Х	
			3				Х				Х						Х	
INSUL TEMP		PAIR OF DOORS, DEAD BOLT LOCK, AND HOLD OPEN CLOSERS		X	X			Х	X	Х					X			X
1/4" TEMP		PAIR OF DOORS	6				X				Х					Х		Х
		PAIR OF DOORS	6				X	Х						X	Х		Х	
 1/4" TEMP		PAIR OF DOORS	6				X				Х					Х		Х

![](_page_23_Picture_5.jpeg)

	1		2
	1		2
D			
C			
D			
В			
А			
4 \$			
IF SHEET IS LESS THAN 22"x 34"			
IT IS A REDUCED PRINT.			
 ii 11			

![](_page_24_Figure_3.jpeg)

![](_page_24_Figure_4.jpeg)

![](_page_24_Figure_5.jpeg)

![](_page_24_Figure_6.jpeg)

![](_page_24_Figure_7.jpeg)

	1		2
	-		-
D			
В			
Δ			
I IF SHEET IS LESS THAN 22"x 34"			
		· · · · · · · · · · · · · · · · · · ·	

	PLUMBING FIXTURE SCHEDULE									
	DECODIDITION	MANUFACTURER &		CO	CONNECTIONS		NOTES			
MARK	DESCRIPTION	MODEL	GPM	CW	HW	WASTE	NOTES			
<u>AAV-1</u>	AIR ADMITTANCE VALVE	OATEY MODA SUREVENT 39020	-	-	-	1 1/2"	ASSE 1050, 8 DFU			
<u>HB-1</u>	HOSE BIBB - FREEZE PROOF	WATTS LFFHB	-	1/2"	-	-	ASSE 1019, LEAD FREE, VACUUM BREAKER, SELF DRAINING			
<u>S-1</u>	DOUBLE BOWL UNDERMOUNT SINK - ADA	JUST MANUFACTURING UD-ADA-1832-A SINK JPO-220 FAUCET	1.8	1/2"	1/2"	1 1/2"	18 GA, 304 STAINLESS STEEL BOWLS EACH 14"x16"x6", ASME A112.19.3, SINGLE HANDLE FAUCET, CERAMIC DISC CARTRIDGE, PULL OUT SPRAYER			
<u>WCO</u>	WALL CLEANOUT	J.R. SMITH 4472T	-	-	-	MATCH LINE SIZE	PROVIDE WALL ACCESS			

	PIPING MATERIAL AND INSULATION SCHEDULE									
		PIPING	INSULATION							
SYMBOL	SYSTEM	SVSTEM INDOOR		INDOOR		OUTDO	OUTDOOR			
0111202	CTOTEM	MATERIAL	MATERIAL	JACKET - CONCEALED	JACKET - EXPOSED	MATERIAL	JACKET			
DCW DHW DHR	DOMESTIC WATER	COPPER PEX	PRE-FORMED MINERAL FIBER	ASJ	PVC	PRE-FORMED MINERAL FIBER	ALUMINUM			
G	NATURAL GAS	SCH40 BLACK STEEL	-	-	PAINT	-	PAINT			
SS V	SANITARY SEWER AND VENT	CAST IRON SOLID WALL PVC	-	-	PAINT	-	PAINT			
CD	CD	PVC	-	-	PAINT	-	PAINT			

MINIMUM PIPE INSULATION THICKNESS TABLE								
FLUID DESIGN	VAPOR	INSULATION COND	UCTIVITY	1	NOMINAL P	IPE OR TU	BE SIZE (IN	)
OPERATING TEMP RANGE (°F)	BARRIER RATING (PERMS)	CONDUCTIVITY (BTU-IN/(H-FT2-°F))	MEAN RATING TEMP (°F)	< 1"	1" TO < 1 1/2"	1 1/2" TO < 4"	4" TO < 8"	< 8"
141-200	-	0.25-0.29	125	1.5	1.5	2.0	2.0	2.0
105-140	-	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	<0.05	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0

	WATER HAMMER ARRESTER SCHEDULE							
MARK	MANUFACTURER & MODEL	FIXTURE UNITS	PIPE SIZE (IN)	HEIGHT (IN)	DIAMETER (IN)	NOTES		
<u>WHA-A</u>	J.R. SMITH 5005	1-11	3/4	2.62	3.25	PROVIDE ACCESS		
NOTE:	NOTE: ALL WATER HAMMER ARRESTERS LISTED IN SCHEDULE MAY NOT APPEAR ON DRAWINGS							

## **PLUMBING**

- 1. ALL EQUIPMENT INTENDED TO SO
- 2. THE CONTRACTO SERVICES WITH PERSONNEL. UT CONNECTIONS N
- 3. PIPE ROUTING IS WHERE ALTERN COORDINATION ADDITIONAL COS
- 4. THE CONTRACTO ELECTRICAL, ME

- FIELD VERIFY.

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER PIPING (DCW)
	DOMESTIC HOT WATER PIPING (DHW)
	RECIRCULATING HOT WATER PIPING (DHR)
	VENT PIPING
	SANITARY SEWER PIPING (ABOVE GROUND)
	SANITARY SEWER PIPING (UNDERGROUND)
TP	TRAP PRIMER PIPING
CD	CONDENSATE DRAIN
G	NATUBAL GAS PIPING
BE	BACKELOW PREVENTER
	WATER HAMMER ARRESTER
<u> </u>	TRAP PRIMER DEVICE
	FLOOR CLEANOUT
	GATE VALVE
	BALL VALVE
	PRESSURE REDUCING VALVE (PRV)
	CHECK VALVE
	CONCENTRIC REDUCER
- OR	ECCENTRIC REDUCER
	BLIND FLANGE OR CAP
	PIPING TEE DOWN
<b></b>	PIPING TEE UP
ô	PIPING ELBOW UP
	PIPING ELBOW DOWN
	UNION OR FLANGE
OR 🖸	FLOOR DRAIN OR FLOOR SINK
	PUMP
Э	WALL CLEANOUT
<b>⊘</b> ⊣I	HOSE BIBB
$\bullet$	POINT OF CONNECTION
$\bullet$	POINT OF DISCONNECTION
DET#	
SHT#	
(H)	
<u>XX-1</u>	
VTR	VENT THRU ROOF

5. ALL PIPING AND PLUMBING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE, NATIONAL FIRE CODE, AND INTERNATIONAL FUEL GAS CODE.

6. WHEN CONNECTING NEW PIPING TO EXISTING, CONTRACTOR TO MATCH EXISTING PIPING MATERIAL UNLESS OTHERWISE INDICATED.

7. PRIME & PAINT ALL EXPOSED PIPES AND PIPE SUPPORTS.

8. PROVIDE ACCESS PANELS FOR SERVICING OF WALL HYDRANT, TRAP PRIMERS, AND WATER HAMMER ARRESTORS.

9. SIZE AND SELECT ALL WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS.

10. ALL WETTED SURFACES OF POTABLE WATER PIPES, PIPE FITTINGS, PLUMBING FITTINGS AND FIXTURES MEET A WEIGHTED AVERAGE LEAD CONTENT OF NO MORE THAN 0.25 PERCENT PER ANSI 61 AND ANSI 372.

11. EXISTING UTILITY LOCATIONS AND SIZES ARE ESTIMATED. CONTRACTOR TO

![](_page_25_Picture_32.jpeg)

	1		2
	I		2
D			
С			
В			
A			
IF SHEET IS LESS THAN 22"x 34"			
IT IS A REDUCED PRINT.			
REDUCE SCALE ACCORDINGLY			

![](_page_26_Figure_3.jpeg)

4

![](_page_26_Figure_4.jpeg)

![](_page_26_Figure_5.jpeg)

![](_page_26_Figure_6.jpeg)

5	D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
	С	STAMP
		GIVE ME A CHANCE A DAUGHTERS OF CHARITY MINISTRY
		MEZZANINE RENOVATION
	В	2913 GRANT AVE OGDEN, UTAH 84401 MARK DATE DESCRIPTION
		ISSUE DATE: DEC 20,2019 PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: GM, JAC CHK'D BY: SN BID SET
	Α	20 DEC 2019 SHEET TITLE
PLUMBING KEYED NOTES NOTE T TO SANITARY SEWER AT SERVICE SINK ON MAIN FLOOR. T TO WATER AT SERVICE SINK ON MAIN FLOOR. NEW HOSE BIBB WITH THE CORRECT LENGTH TO FIT INSIDE NEW ISTALL ACCESSIBLE ISOLATION VALVE AND WATER HAMMER OR AT HOSE BIBB.		PLUMBING PLANS SHEET NO:
5		P101

1	2					3					4	ŀ			
				F	PACKAGE H	HVAC UN	IIT SCHEDU	LE (GAS/EL	ECTRIC)						
	MARK MANUFACTURER & MODEL	AREA SERVED REFRIG	ACFM VENTILATIC AIR (CFM)	DN ESP ) (IN) TY	H INLET PRESSURE (" WC)	IEATING INPUT OUTPL MBH MBH	JT THERMAL EFFICIENCY SE	EER EER EDB / EWB	COOLING / LDB / SENSIE LWB MBH	BLE TOTAL MBH	UNIT ELEC	TRICAL SO VOLTS / PC PHASE (0	DUND WER IBA)	IS WEIGHT N) (LBS)	NOTES
	RTU-1 CARRIER 48KC	VOC/EXERCISE R-410A	1400 475	1.0 N	G 4-13	72 58.7	0.8 1	4.0 - 82.0/ 61.0	50.8/ 49.9 40.2	40.2	36 50	240V/1	81 75x47x34	750	1-3
D	RTU-2 CARRIER 48KC NOTES:	ROOMS R-410A	1400 475	1.0 N	G 4-13	72 58.7	0.8 1	4.0 - 82.0/ 61.0	50.8/ 49.9 40.2	40.2	36 50	240V/1	81 75x47x34	750	1-3
	<ol> <li>1) HIGH ALTITUDE FURNA</li> <li>2) ECONOMIZER WITH BA</li> <li>3) HORIZONTAL DISCHAR</li> </ol>	CE KIT ROMETRIC RELIEF GE													
				Г											
				МА	ARK MANUFACTU & MODEI	JRER L	DESCRIPTION	MATERIAL I			PER MAX NC		X APD NECK M WC) SIZE	IODULE SIZE	NOTES
				S	-1 TITUS TMS	THR	EE CONE SUPPLY DIFFUSER	STEEL	WHITE SURI MO	FACE OPPO UNT BLA	SED 22 DE 22	270 (	0.09 8" 1	I2"x12"	
				S R	ITTUS S-DL I-1 TITUS	RETU	DRUM LOUVER	ALUMINUM AL		ACE	12 <15	350 ( 135 (	0.09 18"x6" 0.04 8"x8"	-	
				R	1-2 TITUS 350RL	RETU	IRN GRILLE, 35 DEG DEFLECTION	STEEL	WHITE SURI MO	FACE UNT	20	2800 (	0.09 28"x24"	-	
									DUC		NG & INSL	JLATION	R-VALUE S	CHEDU	JLE
									DUCT TYPE	EXTERIOR		UCT LOCATION	CONDITIONED SF	PACE SEA	MACNA AL CLASS
									SUPPLY	R-12 R-12	F	₹-6 ₹-6	NONE		B
С									EXHAUST	NONE	NC	DNE	NONE		В
						OFNED									
				<u>ME</u> 1. ALL F		JEACTURES S	AL NOTES: HOWN AS A BASIS	OF DESIGN, NOT	c				<b>C</b> .		
				INTE	NDED TO SOLE SO				S S S T OF		ALUES ARE A	DJUSTABLE)	<u>.</u> ⊡. 75°E		
				2. ALL L STAT SMAC	E ADOPTED EDIT CNA.	ION OF THE IN	NTERNATIONAL ME	CHANICAL CODE	AND OF SP SP	FICE OCCUPIE ACE UNOCCU ACE UNOCCU	ED HEATING TE PIED COOLING PIED HEATING	TEMP SETPOINT	: 70°F INT: 80°F NT: 60°F		
				3. MECH COOI CONI	HANICAL PLANS A RDINATE THEIR W DITIONS. CONTRA	NRE DIAGRAMI VORK WITH OT ACTOR TO FIEI	MATIC ONLY. CON THER TRADES, ANI LD VERIFY QUANTI	TRACTOR SHALL D ACTUAL JOB SITE TIES AND DIMENS	e <u>rc</u> Ions. rc Fi	DOFTOP UNITS DITROLS DOFTOP UNIT S ECTROMECHA	<b>(RTU 1,2)</b> SHALL BE PROV	VIDED WITH OLS FROM MA	NUFACTURER.		
				4. CON HANC REQ	TRACTOR TO PRO GERS,FITTINGS, C UIRED FOR A COM	OVIDE ALL NEC DFFSETS, INSU MPLETE FUNC	CESSARY MATERIA JLATION AND ACCE CTIONAL AIR DELIV	LS, DUCTWORK, ESSORIES LOGICA ERY SYSTEM.	LLY TH	E ROOFTOP C ERMOSTAT (V CUPANCY	ONTROLLER S ENSTAR T4900	HALL INTERFA OR EQUAL).	CE WITH A		
				5. DUCT DUCT	T DIMENSIONS ON TWORK GAUGE TO	N DRAWINGS A O BE 26 GAUG	ARE INSIDE DIMEN: iE.	SIONS. MINIMUM	TH ON ST OC	E THERMOSTA	AT WILL DETER THE THERMO THE UNIT TO BI PERATURE IMM	MINE THE OC STAT SHALL A RING EACH SF IEDIATELY PRI	CUPANCY BASED DJUST THE DAILY ACE TO DESIRED OR TO		
				6. CON	TRACTOR SHALL		ALL SUPPLY DIFFU		S. SC RE _ OF	HEDULED OCO COVERY). WH YEN AND SUPP	CUPANCY (ENA EN OCCUPIED, PLY FAN TO RUI	ABLE VENSTAF , OUTSIDE AIR N CONTINUOU	COMFORT DAMPER TO SLY. THE		
В				7. ALL S SING	LE THICKNESS TU		S.		- OL TC Wł FN	ITSIDE AIR DA MAINTAIN CO IEN FAN SPEE	MPER SHALL M INSTANT VENT D VARIES. COO INTAIN OCCUP	IODULATE PRI ILATION (OUT: OLING OR HEA	DPORTIONATELY SIDE AIRFLOW) TING SHALL BE TURF SETPOINT		
				CON	NECTION SO THAT	T CLEAR AND			VED. (EI Alf IN <sup>-</sup>	NABLE VENSTA R DAMPER TO FERMITTENTLY	AR SMART FAN CLOSE. SUPPL Y WHEN COOLI	). WHEN UNO Y FAN SHALL NG OR HEATII	CUPIED, OUTSIDE RUN NG IS ENABLED TC	=	
				9. MOUI WIRIN PROV	NT BOTTOM OF TH NG FROM THERMO VIDE FOR A FULLY	OSTAT LOCAT Y FUNCTIONAL	48 INCHES ABOVE TON TO AIR HANDL L SYSTEM.	FINISHED FLOOR. ER AND TERMINA	TE TO EC	(INTAIN UNOC) <u>ONOMIZER</u> ONOMIZING M	CUPIED TEMPE	ERATURE SET	POINT.		
				10. CON						MPERATURE I ITSIDE AIR DA SIRED DISCHA	S BELOW SETF MPER SHALL M ARGE AIR TEMF	POINT OF 73°F IODULATE TO PERATURE. EC	(ADJ.). MAINTAIN CONOMIZER		
				11. CON AIR H	I RACTOR TO FUR IANDLERS.	INISH AND INS	STALL CONDENSAT	E P-IRAP ON ALL	NEW CC	ONTROL SHALL COOLING IS NI AGED TO MAIN	HAVE FAULT I EEDED IN ECO NTAIN OCCUPIE	DETECTION AI NOMIZING MO ED COOLING T	ND DIAGNOSTICS. DE, DX SHALL BE EMPERATURE		
				12. ALL F PROT	PIPING THAT COM FECTED AGAINST	ES IN CONTAG GALVANIC CO	CT WITH A DISSIMII DRROSION.	LAR METAL TO BE	SE RE PC PA	LIEF DAMPER	. PRESSURE SHALL E . PRESSURE SH .UST FAN WHEI .THE BELIEF E	BE RELIEVED E HALL BE RELIE N OUTSIDE AII	VED BY DAMPERS OPEN		
				13. ALL E FROM	EXPOSED DUCTW M DUCT.	ORK TO HAVE	ALL LABELS AND	WRITING REMOVE	D MA	E UNIT SHALL	ING SETPOINT	PRESSURE O	= 0.05 WG (ADJ.).		
				14. AFTE MARI INDIC BALA	R AIR AND HYDR ALL BALANCING ATE FINAL POSIT	ONIC SYSTEM DAMPER AND TON; IE AN AR POSITION.	I BALANCING HAS E D BALANCING VALV ROW OR DRAWING	BEEN COMPLETED /ES TO PERMANEN G AN OUTLINE OF	), SM NTLY	IOKE DETECTO	OR.				
				15. UTILI CONT	TY AND EQUIPME TRACTOR TO FIEL	INT LOCATION	IS AND SIZES ARE TUAL SIZE AND LO	ESTIMATED. CATIONS.							
A															
IF SHEET IS LESS THAN 22"x 34" IT IS A REDUCED PRINT.															

M

REDUCE SCALE ACCORDINGLY

4

SYMBOL LIQU S	DESCRIPTION ID REFRIGERANT PIPING FION REFRIGERANT PIPING
LIQU S-S-S-S-SUCT GAS GAS	ID REFRIGERANT PIPING FION REFRIGERANT PIPING
	JAL VOLUME CONTROL DAMPER
OR 🔀 EXHA	AUST AIR DUCT - UP / DOWN
	JRN/OUTSIDE AIR DUCT - UP / DOWN
	PLY AIR DUCT - UP / DOWN
MITE	RED ELBOW W/ TURNING VANES
TITT OR ++++++ FLEX	DUCT (MAX. LENGTH 4 FT.)
GATE	VALVE
+O+ BALL	VALVE
i∳i Cali	BRATED BALANCING VALVE
	SSURE REDUCING VALVE (PRV)
СНЕС	CK VALVE
	NINER WITH BLOWDOWN
	CENTRIC REDUCER
	ENTRIC REDUCER
	D FLANGE OR CAP
→ PIPII	NG DOWN
	NG UP
PIPII	NG TEE DOWN
	NGE
	DN
PUM	2
	RMOSTAT
DET# SHT#	PMENT SYMBOL
M1 SHEE	ET KEYNOTE
	T OF CONNECTION
	T OF DISCONNECTION
AFF ABO	/E FINISH FLOOR
(E) EXIS N.I.C. NOT	LING IN CONTRACT
N.O. NOR	MALLY OPEN
N.C. NOR	MALLY CLOSED
ТҮР ТҮРК	CAL

	CLH
	A R C H I T E C T S E N G I N E E R S
D	Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
	STAMP
C	
	GIVE ME A CHANCE
	A DAUGHTERS of CHARITY Ministry
	MEZZANINE RENOVATION
В	2913 GRANT AVE OGDEN, UTAH 84401 MARK DATE DESCRIPTION
	ISSUE DATE: DEC 20,2019 PROJECT NO: 19310
	CAD DWG FILE:DRAWN BY:GM, JACCHK'D BY:SN
	BID SET 20 DEC 2019
A	SHEET TITLE MECHANICAI
	LEGEND, NOTES AND SCHEDULES
	SHEET NO: M001

![](_page_28_Figure_0.jpeg)

:13 AM

5 D	CARCHITECTS ARCHITECTS ENGINEERS Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com
	STAMP
C	
FFICE	
	GIVE ME A CHANCE
	A DAUGHTERS of CHARITY Ministry
	MEZZANINE
	RENOVATION
	2913 GRANT AVE
В	OGDEN, UTAH 84401
	MARK DATE DESCRIPTION
	ISSUE DATE: DEC 20,2019
	PROJECT NO: 19310
	DRAWN BY: GM, JAC
	RID SET SN
	20 DEC 2019
	20 DEC 2019
	SHEET TITLE
A	MAIN FLOOR MECHANICAL PLAN
	SHEET NO:
5	M101

![](_page_29_Figure_0.jpeg)

AM

5	СLН
	A R C H I T E C T S E N G I N E E R S
D	Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com
	CONSULTANTS
C3 M301	
	STAMP
C	
	GIVE ME A CHANCE A DAUGHTERS of CHARITY Ministry
	MEZZANINE RENOVATION
В	2913 GRANT AVE OGDEN, UTAH 84401 MARK DATE DESCRIPTION
	ISSUE DATE:DEC 20,2019PROJECT NO:19310CAD DWG FILE:DRAWN BY:GM, JACCHK'D BY:SN
	BID SET 20 DEC 2019
А	SHEET TITLE
	MEZZANINE MECHANICAL FLOOR PLAN
	SHEET NO: M102
5	111102

![](_page_30_Figure_0.jpeg)

AM

![](_page_30_Figure_2.jpeg)

![](_page_30_Figure_3.jpeg)

![](_page_30_Figure_4.jpeg)

![](_page_30_Picture_5.jpeg)

### **LIGHTING** E EXISTING LIGHT FIXTURE E RELOCATED EXISTING LIGHT FIXTURE FIXTURE - CHAIN, RECESSED, SURFACE OR PENDANT HUNG NUMBER INDICATES FIXTURE TYPE (17) SMALL LIGHT FIXTURE D WALL MOUNTED LIGHT FIXTURE, H(11) NUMBER INDICATES TYPE OF FIXTURE EXIT LIGHT, TOP MOUNTED, DARKENED AREA $\otimes$ REPRESENTS LETTERED FACE EXIT LIGHT, WALL MOUNTED, DARKENED AREA Ю REPRESENTS LETTERED FACE EXIT LIGHT, TOP MOUNTED, ARROW INDICATES $\otimes$ DIRECTION OF EGRESS EXIT LIGHT, WALL MOUNTED, ARROW INDICATES Ю DIRECTION OF EGRESS PC PHOTO-CELL CONTROL $4_{\overline{5}}$ EMERGENCY LIGHT, 2 HEAD, NUMBER INDICATES FIXTURE TYPE SWITCHES (+48" UNLESS NOTED) -\$ SINGLE POLE SWITCH THREE-WAY SWITCH OCCUPANCY SENSOR WALL SWITCH С SWITCH WITH PILOT LAMP LED DIMMER / OCCUPANCY SWITCH / PHOTOCELL MS MOTION SENSOR WATT STOPPER DT-305 w/1-BZ-150 OR EQUIVALENT MSSLAVE MOTION SENSOR SLAVE WATT STOPPER DT-305 OR EQUIVALENT PP LIGHTING RELAY POWER PACK DL DAY LIGHTING SENSOR KEYED SWITCH <u>CIRCUITING</u> WIRING CONCEALED IN CEILING OR WALL WIRING CONCEALED IN FLOOR \_ \_ \_ WIRING EXISTING \_ \_ \_ \_ \_ \_ CROSSLINES INDICATE NUMBER OF #12 CONDUCTORS. \_<u>////</u>\_\_\_ GROUND IS REPRESENTED BY CROSSLINE WITH DOT ON TOP. OTHER CONDUCTORS AND CONDUIT AS INDICATED. BRANCH CIRCUIT HOMERUN TO PANELBOARD; NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. A-1,3 LETTER AND NUMBER NOTATION IDENTIFIES PANEL B AND CIRCUIT NUMBER(S). PANELBOARDS AND POWER EQUIPMENT FLUSH MOUNTED PANELBOARD AND CABINET SURFACE MOUNTED PANELBOARD AND CABINET $\Box$ SAFETY DISCONNECT SWITCH - UNFUSED $\square$ MANUAL MOTOR STARTER $\boxtimes$ MAGNETIC MOTOR STARTER COMBINATION STARTER & DISCONNECT SWITCH F FUSED DISCONNECT /1/2/ MOTOR OUTLET, HORSEPOWER AS INDICATED PUSHBUTTON STATION $\langle - \rangle$ REFERS TO MECHANICAL OR OWNERS EQUIPMENT ITEM SEE SCHEDULES J CEILING RECESSED JUNCTION BOX FOR А MOTORIZED PROJECTION SCREEN CP PROJECTION SCREEN UP/DOWN CONTROL

1

REDUCE SCALE ACCORDINGLY

IF SHEET IS LESS THAN 22"x 34" IT IS A REDUCED PRINT.

## RECEPTACLES (+18" UNLESS NOTED)

	<i>++</i> _ <i>+</i>
θ-	SINGLE RECEPTACLE, NEMA 5-20R, GROUNDING TYPE
₽	DUPLEX RECEPTACLE, NEMA 5-20R, GROUNDING TYPE
	DUPLEX RECEPTACLE, NEMA 5-20R, GROUNDING TYPE AT CEILING
₽	QUAD RECEPTACLE (DOUBLE DUPLEX), NEMA 5-20R, GROUNDING TYPE
	SPECIAL PURPOSE OUTLET - 240 V., 1 PHASE - NUMBER INDICATES AMPERAGE. NO NUMBER INDICATES 20 AMPS
J	JUNCTION BOX
<u> </u>	GROUND ROD - 3/4" x 10'-0"
()	THERMOSTAT
ю	(E) CLOCK RECEPTACLE
MMUNIC	ATIONS SYSTEMS
	TELEPHONE OUTLET w/ 3/4 " C. TO ACCESSIBLE CEILING. PROVIDE 1 EA. CAT. 6,

2

## CON

	TELEPHONE OUTLET w/ 3/4 " C. TO ACCESSIBLE CEILING. PROVIDE 1 EA. CAT. 6, 4 PAIR CABLE ON SINGLE GANG PLATE w/MODULAR JACKS, 1-RJ45
	TELEPHONE FLOOR BOX, ROUTE PHONE AND DATA CABLES TO ACCESSIBLE CEILING
$\triangleleft$	DATA OUTLET w/ 3/4 " C. TO ACCESSIBLE CEILING. PROVIDE 1 EA. CAT. 6, 4 PAIR CABLES ON SINGLE GANG PLATE w/MODULAR JACKS, 1-RJ45
$\triangleleft$	TELEPHONE / DATA OUTLET w/ 3/4" C. TO ACCESSIBLE CEILING. PROVIDE 1 EA. CAT. 6 AND 1 EA. CAT 6 - 4 PAIR CABLE ON SINGLE GANG PLATE w/MODULAR JACKS, 2-RJ45.
	TELEPHONE / DATA OUTLET w/ 3/4" C. TO ACCESSIBLE CEILING. PROVIDE 1 EA. CAT. 6 AND 1 EA. CAT 6 - 4 PAIR CABLE ON SINGLE GANG PLATE w/MODULAR JACKS, 2-RJ45 FLOOR MOUNTED.
$\blacktriangleleft_{WP}$	TELEPHONE OUTLET IN NEMA 4 PHENOLIC PHONE SET ENCLOSURE
$\triangleleft$	WIRELESS DATA ACCESS POINT. PROVIDE CAT. 6 CABLE TO OWNER FURNISHED DEVICE
TTB	TELEPHONE TERMINAL BACKBOARD
LAN	LOCAL AREA NETWORK
	TELEPHONE OR DATA FLOOR OR WALL MOUNT 19 INCH WALL MOUNT RACK
	(E) CCTV CAMERA

## ONE-LINE DIAGRAM

	TRANSFORMER
	FUSE
	MOLDED CASE CIRCUIT BREAKER
<b>₽</b> 3	CURRENT TRANSFORMER, NUMBER AS INDICATED
	DISCONNECT SWITCH
<u>200 AT</u> 225 AF	CIRCUIT BREAKER TRIP SETTING CIRCUIT BREAKER FRAME SIZE
X	CONDUIT & CONDUCTOR CALLOUT

## FIRE ALARM/MNS SYSTEM

FACP	FIRE ALARM CONTROL PANEL
F	(E) MANUAL PULL STATION
۲ ۲	(E) FIRE ALARM - HORN /STROBE
Ø	NEW FIRE ALARM - HORN /STROBE
(H)	(E) HEAT DETECTOR
$(H)_{N}$	NEW HEAT DETECTOR 135 DEG. RATE OF RISE
К	(E) KNOX BOX
E	(E) FIRE RISER WITH FLOW & TAMPER SWITCHES

<u>ABBRE\</u>	/IATIONS
(EX1)	KEYED NOTE CALLOUT - LETTERS & NUMBERS AS INDICATED
ЗR	NEMA 3R ENCLOSURE
12	NEMA 12 ENCLOSURE
4	NEMA 4 ENCLOSURE
4X	NEMA 4X ENCLOSURE
А	AMPERE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
APPROX	APPROXIMATELY
ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
BC	BARE COPPER
С	CONDUIT
СВ	CIRCUIT BREAKER
СКТ	CIRCUIT
СО	CONDUIT ONLY
CONC	CONCRETE
CU	COPPER
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
FLR	FLOOR
FT	FEET
GFI	GROUND FAULT CIRCUIT-INTERRUPTER
GND or GRD	GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN	INCHES
KVA	KILOVOLT AMPERE
KWH	KILOWATTHOUR
LAN	
LED	
MAX	MAXIMUM
MCC	
MDP	
IVIIIN (NI)	
NEG	
NEMA	MANUFACTURING ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT ON UNSWITCHED CIRCUIT
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
O.C.	ON CENTER
O.H.	OVERHEAD
RM	ROOM
RGC	
TIB	
TYP	
V \\/	
vv \\/	WITH
WP	WEATHERPROOF
XEMB	TRANSFORMER

MOUNTING HEIGHT ABOVE FINISHED FLOOR +12" OR GRADE

PANEL: (N	EW) P2A	MA	AIN E	BREAKE	R		NONE		VOLI	AGE:		240 /	120		PH	ASE:	1	WIRE:	3	NEMA:	1	
MAINS: 2	00 AMPS	MOUNT	ring	<b>;</b> :		SUR	FACE		LOCA	TION	SHOP				RE	MARKS						
							KVA		PHASE				KVA		скт	AMP	Р	WIRE				
LOAD DESCR	IPTION	WIRE	P	AMP	СКТ	PWR	LTS	C.O.	Α	В		C.O.	LTS	PWR					LOAD DESCRIPTION			
EXT. LOAD		12	1	20	1	0.5			1.0			0.5			2	20	1	12		EXT. LOAI		
EXT. LOAD		12	1	20	3	0.5				1.0		0.5			4	20	1	12		I	EXT. LOAD	
EXT. LOAD		12	1	20	5	0.5			1.0			0.5			6	20	1	12		DRINKING	FOUNTAIN	
OUTSIDE FOUNTAIN		12	1	20	7	0.5				1.0		0.5			8	20	1	12		I	EXT. LOAD	
POST LIGHT "MARY"		12	1	20	9		0.5		1.0			0.5			10	20	1	12	EXT	. LOAD FORM	PANEL P2	
PERGOLA		12	1	20	11		0.5			1.0		0.5			12	20	1	12	EXT	LOAD FORM	PANEL P2	
COVERED GAZEBO		12	1	20	13		0.5		0.9				0.4		14	20	1	12	LTS UPF	PER,LOWER M	EZZANINE	
OUTLETS ART		12	1	20	15	0.4				4.4		4.0			16	20	1	12	OUTLETS SOUTH M		UTH MEZZ	
OUTLETS ART		12	1	20	17	0.4			1.2			0.8			18	20	1	12		OUTLETS SO	UTH MEZZ	
OUTLETS SEWING		12	1	20	19	0.4				1.2		0.8			20	20	1	12		OUTLETS C	OMPUTER	
OUTLETS SEWING		12	1	20	21	0.4			1.2			0.8			22	20	1	12		OUTLETS C	OMPUTER	
OUTLETS SEWING		12	1	20	23	0.4				1.4		1.0			24	20	1	12		OUTLETS C	OMPUTER	
SPAREOUTLETS SEV	/ING	12	1	20	25	0.4			1.6			1.2			26	20	1	12	0	UTLETS STOR		
OUTLETS SEWING		12	1	20	27	0.4				0.4					28	20	1	12			SPARE	
OUTLETS SEWING		12	1	20	29	0.5			0.5						30	20	1	1 12			SPARE	
SPARE		12	1	20	31					0.0					32	20	1	12			SPARE	
			_	50	33	4.3			4.3						34	20	1	12			SPARE	
AC UNI	1	0	2	50	35	4.3				4.3					36	20	1	12			SPARE	
	r	6	2	50	37	4.3			4.3						38	20	1	12			SPARE	
ACUNI		0	2	50	39	4.3				4.3					40	20	1	12			SPARE	
SUB-TOTAL (KVA)			-			22.6	1.5	0.0	17.0	19.0		11.6	0.4	0.0								
										TYPE C	OF LOAD			C	ONNE	CTED		DIV	ERSITY	DEMA	ND	
*PROVIDE GFCI BRE/	KER									LIGH	ITING				1.9			1	100%	1.9		
**PROVIDE UP FIRE ALARM HANDLE							PO	WER				22.6	6			70%	15.8	3				
			C					.0.	0.				6		NEC	220.44	10.8	3				
PANEL LOADING	60%	6						TOTAL							36.1				KVA	28.	5	
12/4/2019 14:02								то	TAL				151			A	AMPS 119					

5

5

PANEL:	P2	MA	AIN E	BREAKE	ĒR		NONE		VOL	TAGE:	240 /	120		PH	ASE:	1	WIRE:	3	NEMA:	1	
MAINS:	100 AMPS	MOUN	):		SUR	FACE		LOCATION SHOP			OP		RE	MARKS	:			<u> </u>			
					01/7	KVA				PHASE		KVA			CKT AMP		WIRE				
	DESCRIPTION	WIRE	P		CKI	PWR	LTS	C.O.	A	В	C.O.	LTS	PWR					LOAD DESCRIPTION			
BACK		12	1	20	1				0.0					2	20	1	12		EXT. LOA		
WEST OUTLE	ET BY RISER	12	1	20	3					0.0				4	20	1	12		ALA		
REST RM		12	1	20	5				0.0					6	20	1	12			KITCHEN	
EXT LIGHTS	NO. & SO.	12	1	20	7					0.0				8	20	1	12			EXT. LOAD	
EXT. LOAD		12	1	20	9				0.0					10	20	1	12			EXT. LOAD	
EXT.LOAD		12	1	20	11					0.0				12	20	1	12			EXT. LOAD	
EXT. LOAD		12	1	20	13				0.0					14	20	1	12			EXT. LOAD	
EXT.LOAD		12	1	20	15					0.0				16	20	1	12			EXT. LOAD	
EXT. LOAD		12	1	20	17				0.0					18	20	1	12			EXT. LOAD	
RED HANDLE	E	12	1	20	19					0.0				20	20	1	12			COPIER	
EXT. LOAD		12	1	20	21				0.0					22	20	1	12		SOFIT LIGH	IT , OUTLET	
MUSIC		12	1	20	23					0.0				24	20	1	12			MUSIC	
EXT. LOAD		12	1	20	25				0.0					26	20	1	12			EXT. LOAD	
EXT.LOAD		12	1	20	27					0.0				28	20	1	12			EXT. LOAD	
EXT. LOAD		12	1	20	29				0.0					30	20	1	12			EXT. LOAD	
EXT.LOAD		12	1	20	31					0.0				32	20	1	12			EXT. LOAD	
		10			33				0.0					34	40						
	EXT. LOAD	12	2	20	35					0.0				36	40	2	ð		EXT. LOAD		
EXT. LOAD		12	1	20	37				0.0					38	40	_	40				
EXT.LOAD		12	1	20	39					0.0				40	40	2	12		EXT. LUAD		
SUB-TOTAL (KVA)						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
									TYPE OF LO	DAD		0	ONNE	CTED		DIV	ERSITY	DEM	AND		
*PROVIDE GFCI BREAKER									LIGHTING	3			0.0				100%	0.	.0		
**PROVIDE U	P FIRE ALARM HAND	LE								POWER				0.0			70%		0.	.0	
						C.O.							0.0			NE	C 220.44	0.	.0		
PANEL LO	DADING 0	%								TOTAL				0.0				KVA	0.	.0	
10/29/201	9 10:26										0				AMPS	0	)				

![](_page_31_Picture_22.jpeg)

![](_page_32_Figure_0.jpeg)

ЫΜ 23

	5
ELE	CTRICAL LIGHTING KEYED NOTES
MARK	NOTE
EL1	RELOCATED SWITCH FOR MEZZANINE LIGHTS.
EL2	REVISE CIRCUITING & SWITCHING THIS SPACE.
EL3	CONNECT TO CLOSEST UN-SWITCHED LIGHTING CIRCUIT.

![](_page_32_Picture_11.jpeg)

![](_page_33_Picture_0.jpeg)

D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com CONSULTANTS
C	STAMP STAMP STAMP SPROFESSIONAL 129383 KEVIN J. LEWIS SPATE OF UTMA 12/20/2019
В	ISSUE DATE: DEC 20,2019
Α	PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: J.M.S. CHK'D BY: K.J.L. BID SET 20 DEC 2019 SHEET TITLE ELECTRICAL SITE PLAN SHEET NO: EP100

![](_page_34_Figure_0.jpeg)

D	A R C H I T E C T S E N G I N E E R S Case, Lowe & Hart, Inc. • 2484 Washington Blvd. Suite 510 • Ogden, Utah • 84401 801.399.5821 • www.clhae.com
C	STAMP STAMP
В	KEZZANINE RENOVATION2913 GRANT AVE OGDEN, UTAH 84401MARKDATEDESCRIPTION
	ISSUE DATE:DEC 20,2019PROJECT NO:19310CAD DWG FILE:Image: Calculation of the second
A	DRAWN BY: J.M.S. CHK'D BY: K.J.L. BID SET 20 DEC 2019 SHEET TITLE ELECTRICAL POWER PLAN
	SHEET NO: EP101

![](_page_35_Figure_0.jpeg)

M

![](_page_35_Figure_2.jpeg)

![](_page_35_Picture_3.jpeg)

![](_page_35_Figure_4.jpeg)

![](_page_35_Picture_6.jpeg)

			1							2	2				3						4								5
							LIG	HT FL	XTUR	RE SCH	HEDU	LE											EQUIPI	MENT	SCHE	DULE			
								LAMPS			BALLAST/DRIVER						JIP.	DESCRIPTION	VOLTS	PHASE		S BR		R CON		PILOT	CONT		REMARKS
	NO	DESCRIPTION	VOLTS	MTG.	LENS	FINISH	F H	PE NO. ( I L LAMI	DF PS LAM	MP TYPE S	TYPE 6 E 0	NO. PER LUMINAIRE	INPUT WATTS	(OR EQUIVALENT) NOTE COMMISSION ALL LIGHTING CONTROLS	DETAILS	P2A-33 RTL	J-1	HVAC UNIT	240	1	8.64 KV	V 50	FUSED DISC.	H.O.A	<u>Р.В.</u> (		ED N.O.	N.C. TRANS.	FUSED PER MANUFACTURER, NEMA 3F
	T-1	LED SURFACE	120/277	CEILING SURFACE	ACRYLIC	BAKED WHITE ENAMEL	E	X 1	4400 40	0 LUMEN 4000 K	x	1	38.7	METALUX 4SNLED-LD5-44SL-LW-UNV-L840-CD1-U		P2A-37 RTL	J-2	HVAC UNIT	240	1	8.64 KV	V 50	) FUSED DISC.						FUSED PER MANUFACTURER, NEMA 3F
)	T-1E	LED SURFACE	120/277	CEILING SURFACE	ACRYLIC	BAKED WHITE ENAMEL	Ξ	X 1	4400 40	0 LUMEN 4000 K	x	1	38.7	METALUX 4SNLED-LD5-44SL-LW-EL7W-UNV-L840-CD1-U															
	T-2	EMERGENCY LIGH	T 120/277	CEILING OR WALL	ACRYLIC	BAKED WHITE ENAMEL	Ξ	X 1	L	LED	x	1	21.1	SURE-LITES CU2-LED															
	T-3	UNDER CABINET LED	120	WALL BELOW CABINET	V ACRLIC	BAKED WHITE ENAMEL	Ξ	X 1	L	LED	x	1	15	LITHONIA UCEL 36IN 30K 90CRI SWR WH M6 UC ERC (PROVIDE ONE UCD JB FOR POWER FEED)															
_																													
		EXIT LIGHT	120/277	WALL OR CEILING SURFACE									1	SURE-LITES LPX7															

![](_page_36_Figure_1.jpeg)

![](_page_36_Figure_2.jpeg)

:29:41 PM

 $\overline{2}$ 

С

	NEW PNI	] [	NFW PNI	
	"P2"		"P2A"	
>	100 AMP		200 AMP	
1	M.L.O.		M.L.O.	
/	240/120 V.		240/120 V	/.
	SHOP		SHOP	
	<u> </u>			
8" v 8"				
0 1 0				

3		
	-	

D	CONSULTANTS
C	STAMP STAMP
В	ISSUE DATE: DEC 20.2019
A	PROJECT NO: 19310 CAD DWG FILE: DRAWN BY: J.M.S. CHK'D BY: K.J.L. BID SET 20 DEC 2019 SHEET TITLE ELECTRICAL DIAGRAMS & SCHEDULES SHEET NO: EP601