GENERAL NOTES

DESIGN REQUIREMENTS

DESIGN LIVE LOADS(MINIMUM): A. ROOFS - 20 PSF

WIND DESIGN LOAD INFORMATION(PER FBC 2017 6th EDITION CH16, REF. ASCE 7-10)

BASIC WIND SPEED (Vult) = 170 MPH (3 SECOND GUST)

(Vasd) = 132 MPH (3 SECOND GUST)

BUILDING CATEGORY = II (ASCE 7-10)

WIND EXPOSURE(ALL SIDES) =B (ASCE 7-10)

INTERNAL PRESSURE COEFFICIENTS (ASCE 7-10)

ENCLOSED BUILDINGS = +/-0.18

PARTIALLY ENCLOSED BUILDINGS = +/-0.55
(NOTE: COEFFICIENTS FOR PARTIALLY ENCLOSED STRUCTURES ARE APPLIED WHEN DESIGN OF MEMBER(S) FALLS UNDER ASCE 7-10 DEFINITIONS CLASSIFYING AS SUCH)

ALL WALL COMPONENTS AND CLADDING NOT SPECIFIED ON PLANS SHALL BE DESIGNED TO WITHSTAND THE FOLLOWING PRESSURES (ASD):

C&C WIND PRESSURES (Pasd)								
a (FT)	A (S.F.)	ZONE 4 P.S.F.	ZONE ⑤ P.S.F.					
	≤10	+ 31.4 - 33.9	+ 31.4 - 41.9					
6'-0"	20	+ 29.9 - 32.5	+ 29.9 - 39.1					
0 0	50	+ 28.0 - 30.7	+ 28.0 - 35.3					
	≥100	+ 26.6 - 29.3	+ 26.6 - 32.5					

FOUNDATION NOTES

- 1. SOIL TO BE COMPACTED TO AT LEAST 95% UNDER SLABS AND 98% UNDER FOOTINGS OF MAX. DRY DENSITY AS DETERMINED BY ASTM- 1557 (MODIFIED PROCTOR)
- 2. THE FOUNDATION OF THIS STRUCTURE HAS BEEN DESIGNED TO AN ALLOWABLE BEARING CAPACITY OF 2000 PSF. IT IS THE OWNER/ CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE BUILDING SITE WILL MEET THIS STANDARD WITH REGARDS TO SETTLEMENT AND SUPPORT.
- 3. PROVIDE TERMITE TREATED SOIL IN ACCORDANCE W/ SECTION 1816 OF THE FLORIDA BUILDING CODE. IN LIEU OF TREATING THE SOIL, BORA-CARE TERMITICIDE MAY BE APPLIED TO WOOD COMPONENTS IN ACCORDANCE TO W/MANUFACTURER'S INSTRUCTIONS, PURSUANT TO SECTION 1816 OF THE FLORIDA BUILDING CODE.

CAST IN PLACE CONCRETE

- 1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI (FOUNDATIONS) AND 4000 PSI (COLUMNS/BEAMS), A SLUMP OF 4" PLUS OR MINUS 1", AND HAVE 2 TO 4% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.58.
- 2. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
- 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-I85 FOR 6x6xW1.4xW1.4 WWF SHALL BE LAPPED AT LEAST 6" & CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6". FIBERMIX OF EQUAL SPECIFICATIONS MAY BE USED IN LIEU OF WWF.
- 4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318 LATEST EDITION, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," ACI 301.
- 5. HORIZONTAL FOOTING BARS SHALL BE BENT MIN. 48 BAR DIAMETERS (EXCLUDING BEND) AROUND CORNERS OR #5 CORNER BARS WITH MIN. 30" LAP EXCLUDING BEND AT EACH END SHALL BE PROVIDED.
- 6. MINIMUM LAP SPLICES ON ALL REINFORCING BARS SHALL BE 48 BAR DIAMETERS.

BOLTS AND THREADED RODS

1. ALL BOLTS & THREADED RODS TO BE ASTM A307 OR BETTER (U.N.O.)

FIELD REPAIR NOTES

- DRILL A 3/4" DIAMETER HOLE MIN. 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL NO. 5 BAR INTO EPOXY FILLED HOLE EPOXY TO BE SIMPSON STRONG TIE EPOXY OR EQUIVALENT. FOLLOW MANUFACTURE'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM HOLE BY USING COMPRESSED AIR PRIOR TO APPLYING EPOXY. ALLOW EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL CELL IN THE NORMAL WAY DURING BOND BEAM POUR. USE 25" MIN. LAP SPLICE. HOOKS AT TOP OF BAR TO BE MIN. 12 BAR DIAMETERS(EXCLUDING BEND).
- 2. FOR MORTAR JOINTS LESS THAN 1/4", PROVIDE (1)#5 VERT. IN CONC. FILLED CELL EA. SIDE OF JOINT (BAR DOES NOT HAVE TO BE CONT. TO FTG.)

METAL ROOF DECKING

1. PROVIDE MINIMUM G60 COATING TO METAL ROOF DECK.

2. ADDITION

- DECKING TO BE 1-1/2" TYPE 1.5 B DECK 22 GAUGE MIN. (2-SPAN MIN.) INSTALL PER MANUF. SPECS AND SJI GUIDELINES.

- ATTACHMENT (MIN.):

PERIMETER SUPPORTS = #12 TEKS AT 6" O.C.

STEEL FRAMES = #12 TEKS AT 6" O.C. TO INTERIOR AND END FRAMES

ALL OTHER SUPPORTS = #12 TEKS 36/4 FASTENING (4-FASTENERS)

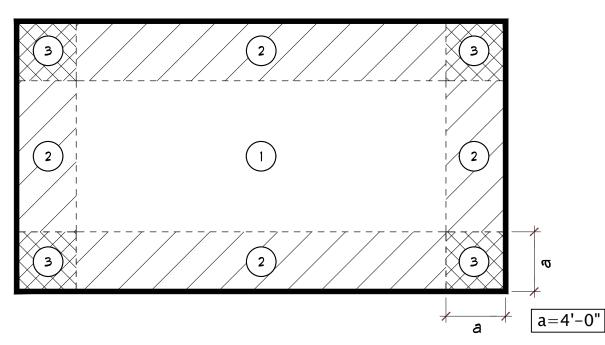
AT EACH SUPPORT AND (3) #10 TEKS AT SIDE LAPS

ROOF JOISTS

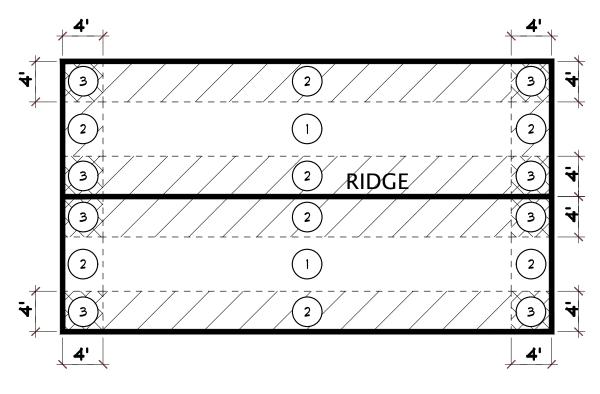
- 1. ROOF JOISTS TO BE DESIGNED FOR THE FOLLOWING UNFACTORED LOADS:
 - DL = 10 PSFLL = 20 PSF
- WL ZONE①= +19.1, -17.5 PSF (pasd) WL ZONE②= +19.1, -17.5 PSF (pasd)

WL ZONE③= +19.1, -17.5 PSF (pasd)

- 2. ALL BRIDGING TO BE L1-1/4x7/64 ANGLE W/ 3/8" DIA. BOLT OR 1/8"x1" LONG FILLET WELD TO EA. JOIST
- 3. PROVIDE TEMPORARY AND PERMANENT BRACING PER MANUF. SPECS AND SJI GUIDELINES
- 4. BAR JOIST TO BE INSTALLED PER MANUF. SPECS AND SJI GUIDELINES



ROOF WIND LOAD DIAGRAM



MASONRY WALL CONSTRUCTION

- 1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 2000 PSI (f'm = 1500 PSI)
- 2. MORTAR SHALL BE TYPE M OR S, CONFORMING TO ASTM C270
- 3. HEAD MORTAR JOINTS AT PRECAST WINDOW SILLS TO BE NO MORE THAN 1".
- 4. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
- 5. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH CELLS FILLED WITH COARSE GROUT.
- 6. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 4'-0" U.N.O. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED.
- 7. REINFORCING STEEL SHALL BE LAPPED MINIMUM 25" UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 8. HOOKS AT TOP & BOTTOM OF VERTICAL REINFORCING BARS TO TIE BEAM AND FOOTING TO BE NO LESS THAN 12 BAR DIAMETERS EXCLUDING BEND
- 9. HORIZONTAL WALL REINFORCEMENT SHALL BE STANDARD LADDER TYPE DUR-O-WAL (ASTM A-82 #9 GAGE WIRE) AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

LIGHT GAUGE FRAMING

- 1. ALL LIGHT GAUGE MEMBERS TO BE MIN. 20ga. U.N.O. (USE 18ga. FOR EXTERIOR)
- 2. ALL FASTENERS TO BE: SELF-DRILLING, SELF-TAPPING SCREWS; STEEL, COMPLYING WITH ASTM C1002; GALVANIZED COATING, PLATED OR OIL-PHOSPHATE COATED COMPLYING WITH ASTM B 633 AS NEEDED FOR REQUIRED CORROSION RESISTANCE.
- 3. TOUCH-UP PAINT: ZINC RICH, CONTAINING 95-PERCENT METALLIC ZINC.
- 4. GALVANIZED COATING TO BE: G60 COATING WEIGHT MINIMUM, COMPLYING WITH ASTM C 955.
- 5. CUT ALL FRAMING COMPONENTS SQUARELY FOR ATTACHMENT TO FIT AGAINST ABUTTING MEMBERS. HOLD MEMBERS POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

STRUCTURAL STEEL

- 1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "SPECIFICATION FOR THE DESIGN AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," AISC, 14TH EDITION, AND THE FBC 6th EDITION (2017).
- 2. STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS:
 A. PLATES, ANGLES, CHANNELS, TUBES ASTM A36, Fy=36 KSI
 - B. PIPE ASTM A53 GRADE B, Fy=35 KSI
 - C. W-BEAMS ASTM A992, Fy=50 KSI
 - D. HSS (RECT.) ASTM A500 GRADE B, Fy=46 KSI E. HSS (ROUND) - ASTM A500 GRADE B, Fy=42 KSI
- 3. ALL WELDING SHALL BE PERFORMED BY EXPERIENCED, CERTIFIED WELDERS USING THE ELECTRIC ARC WELDING PROCESS, E70XX SERIES ELECTRODES FOR WELDING STRUCTURAL STEEL, WELDING SHALL CONFORM TO AISC AND AWS STANDARD.
- 4. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS, SIZE OF WELD SHALL BE BASED ON ASIC STANDARD FOR THICKER PART JOINED.
- 5. HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED
- 5. APPLY CORROSION RESISTANT PAINT TO ALL WELDS AND STEEL SURFACES



ARCHITECTURE I INTERIOR DESIGN

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CA#27371
PHONE: 321.251.6006
3662 AVALON PARK EAST BLVD.
SUITE 2072
ORLANDO, FL. 32828

OWNER / PROJECT:

HOWEY-IN-THE-HILLS
ARIANNE BECK LIBRAR
COMMUNITY ROOM ADDITION
HOWEY-IN-THE-HILLS, FLORIDA

PROFESSIONAL SEAL:

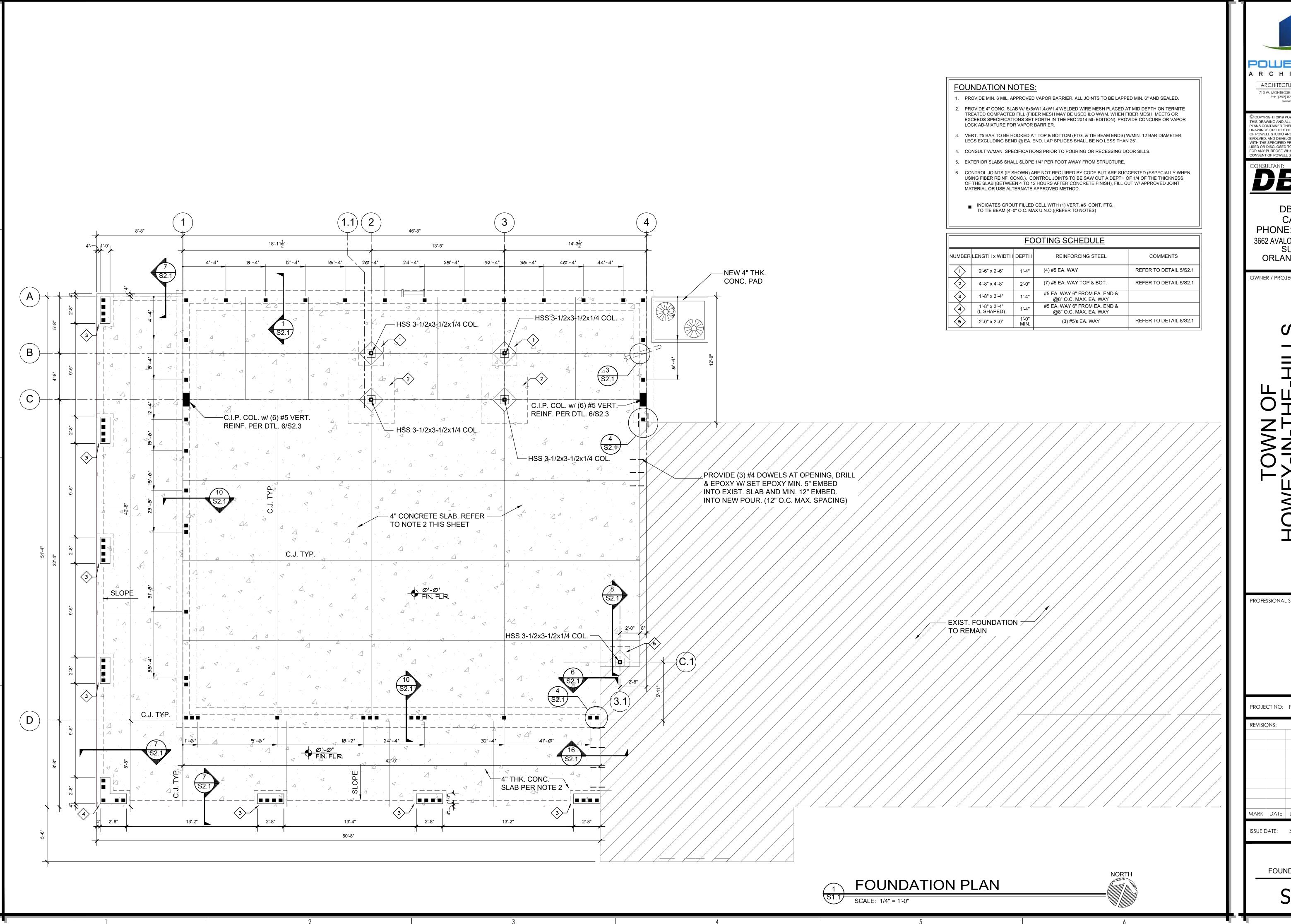
PROJECT NO: PSA2015-01

REVISIO	ONS:	
MARK	DATE	DESCRIPTION

ISSUE DATE: SEPTEMBER 10, 2019

STRUCTURAL NOTES

S0.1





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DBSS, INC. CA#27371 PHONE: 321.251.6006 3662 AVALON PARK EAST BLVD. **SUITE 2072** ORLANDO, FL. 32828

OWNER / PROJECT:

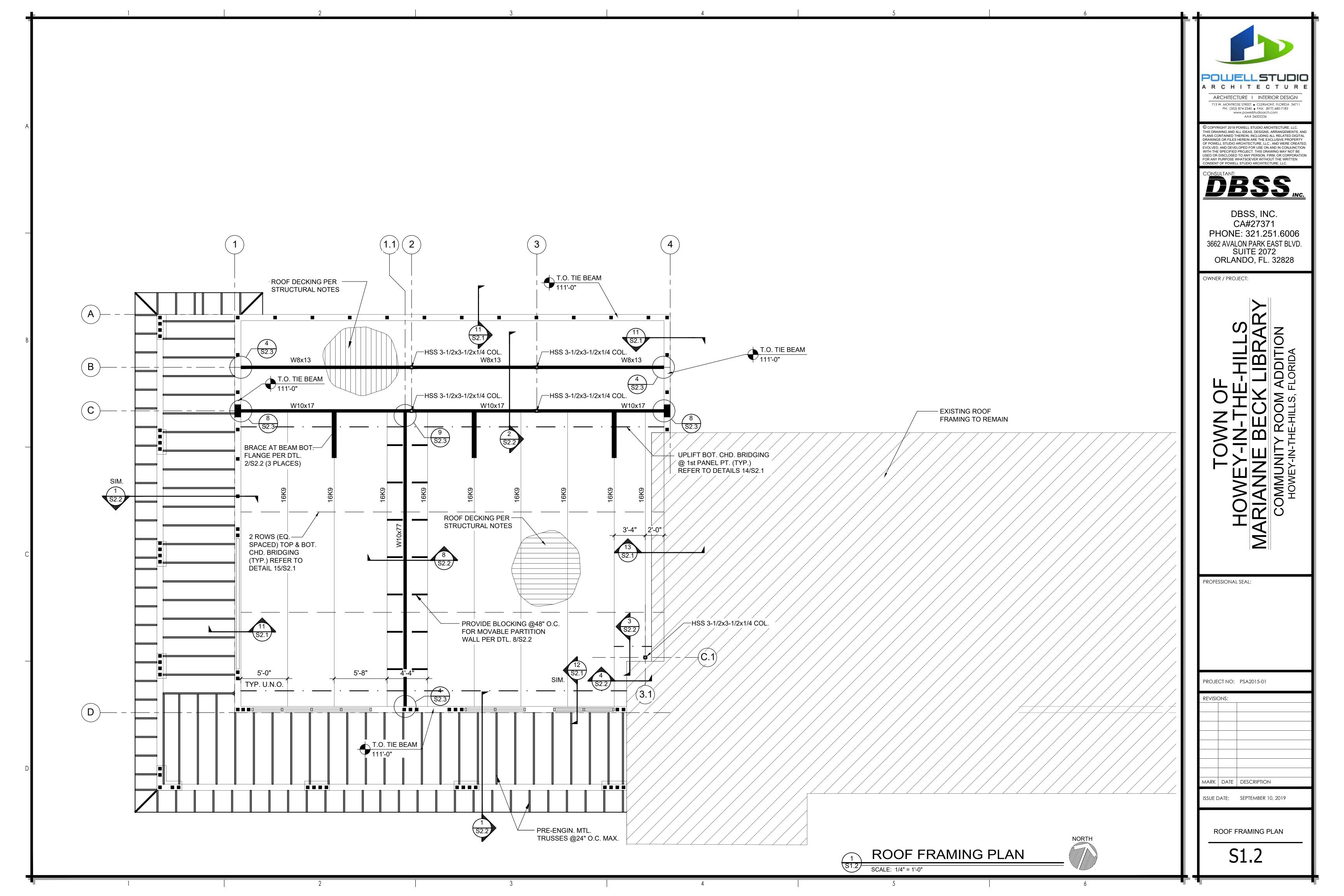
PROFESSIONAL SEAL:

PROJECT NO: PSA2015-01

MARK DATE DESCRIPTION

SSUE DATE: SEPTEMBER 10, 2019

FOUNDATION PLAN

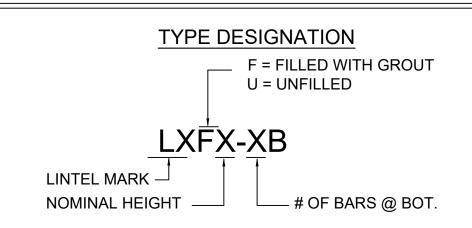


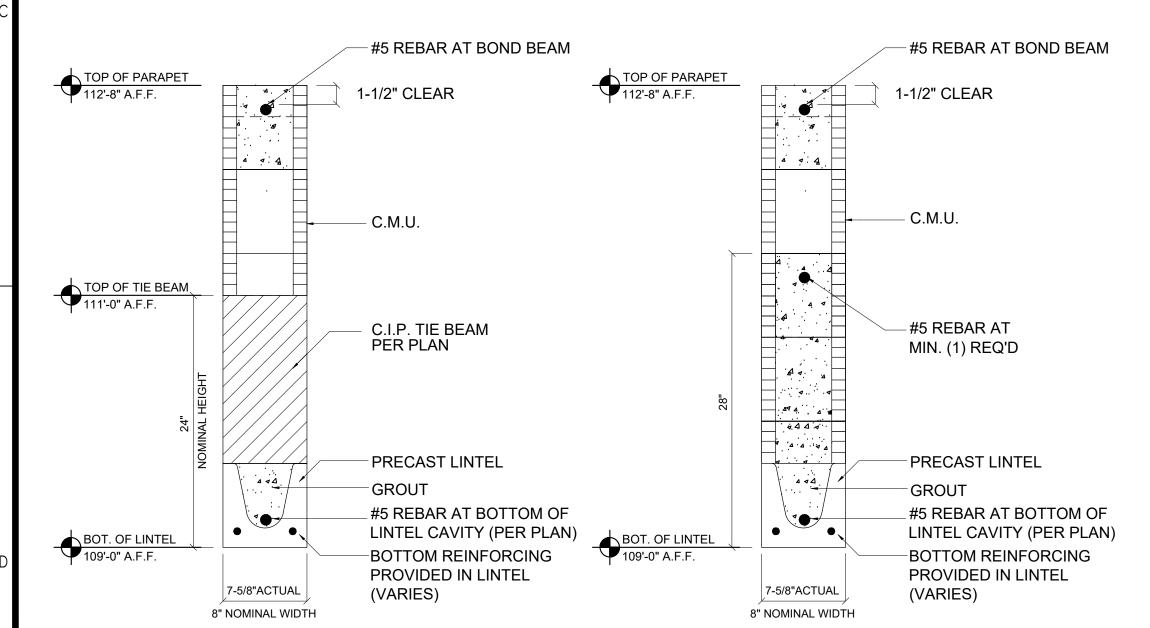
PRECAST NOTES:

- I. PROVIDE FULL MORTAR HEAD AND BED JOINTS.
- 2. SHORE FILLED LINTELS AS REQUIRED.
- 3. INSTALLATION OF LINTEL MUST COMPLY WITH THE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS.
- 4. LINTELS ARE MANUFACTURED WITH 5-1/2" LONG NOTCHES AT THE ENDS TO ACCOMMODATE VERTICAL CELL REINFORCING AND GROUTING.
- 6. ALL LINTELS MEET OR EXCEED L/360 VERTICAL DEFLECTION, EXCEPT LINTELS 17'-4" AND LONGER WITH A NOMINAL HEIGHT OF 8" MEET OR EXCEED L/180.
- 6. BOTTOM FIELD ADDED REBAR TO BE LOCATED AT THE BOTTOM OF THE LINTEL CAVITY.
- 7. 7/32" DIAMETER WIRE STIRRUPS ARE WELDED TO THE BOTTOM STEEL FOR MECHANICAL ANCHORAGE.
- 8. CAST-IN-PLACE CONCRETE MAY BE PROVIDED IN COMPOSITE LINTEL IN LIEU OF CONCRETE MASONRY UNITS.
- 9. SAFE LOAD RATINGS BASED ON RATIONAL DESIGN ANALYSIS PER ACI 318 AND ACI
- 10. BLOCK MASON TO VERIFY LINTEL DEPTHS W/ R.O. PRIOR TO INSTALLATION. CONTACT E.O.R. IF DISCREPANCY EXIST.

SAFE LOAD TABLE NOTES

- 1. ALL VALUES BASED ON MINIMUM 4" BEARING. EXCEPTION: SAFE LOADS FOR UNFILLED LINTELS MUST BE REDUCED BY 20% IF BEARING LENGTH IS LESS THAN 6-1/2". SAFE LOADS FOR ALL RECESSED LINTELS BASED ON 8" NOMINAL BEARING.
- 2. N.R. = NOT RATED.
- 3. SAFE LOADS ARE TOTAL SUPERIMPOSED ALLOWABLE LOAD ON THE SECTION SPECIFIED.
- 4. SAFE LOADS BASED ON GRADE 40 OR GRADE 60 FIELD REBAR.
- 5. ADDITIONAL LATERAL LOAD CAPACITY CAN BE OBTAINED BY THE DESIGNER BY PROVIDING ADDITIONAL REINFORCED MASONRY ABOVE THE PRECAST LINTEL.
- 6. ONE #7 REBAR MAY BE SUBSTITUTED FOR TWO #5 REBARS IN 8" LINTELS ONLY.
- 7. THE DESIGNER MAY EVALUATE CONCENTRATED LOADS FROM THE SAFE LOAD TABLES BY CALCULATING THE MAXIMUM RESISTING MOMENT AND SHEAR AT D-AWAY FROM THE FACE OF SUPPORT.
- 8. FOR COMPOSITE LINTEL HEIGHTS NOT SHOWN, USE SAFE LOAD FROM NEXT LOWER HEIGHT.
- 9. ALL SAFE LOADS IN UNITS OF POUNDS PER LINEAR FOOT.





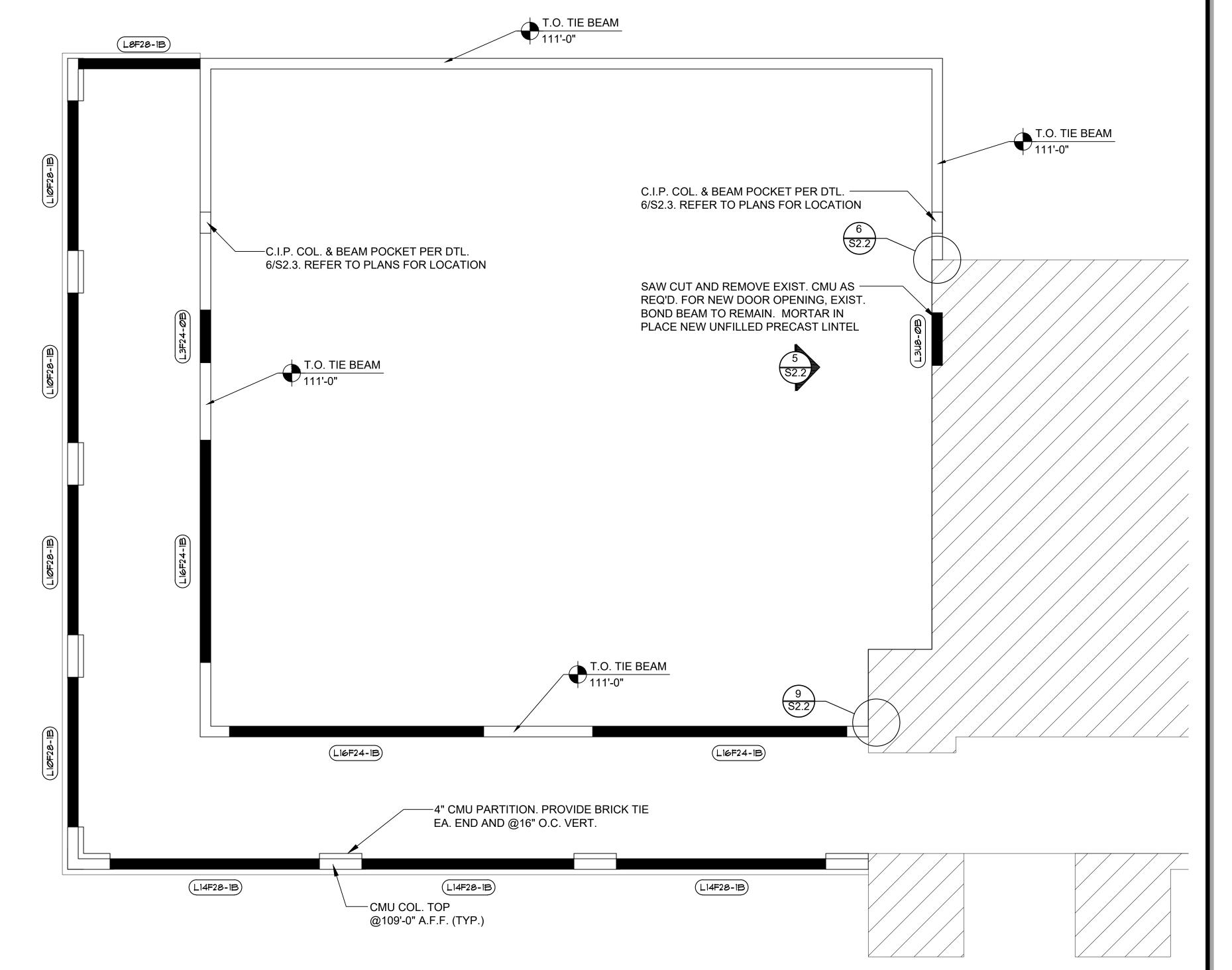
AT MAIN STRUCTURE

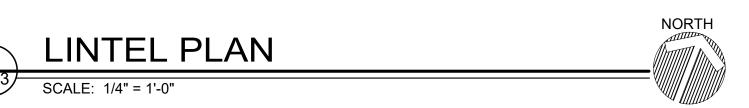
AT COLONADE

						ROCK IND.			
MARK	MAX. CLR. OPENING	6" DEEP	14" DEEP	22" DEEP	38" DEEP	8" DEEP	16" DEEP	24" DEEP	32" DE
L1	1'-6"	3984	3665	Х	Х	3166	6039	9004	10000
L2	2'-4"	2745	3665	Х	Х	3166	6039	9004	10000
L3	3'-4"	1384	3665	Х	2000	1974	4616	7269	9924
L4	4'-6"	1025	3960	2000	Х	1060	2483	3913	5350
L5	5'-4"	Х	Х	Х	Х	1261	2653	4049	4849
L6	6'-4"	524	N/A	Х	Х	1055	2542	4029	5047
L8	8'-4"	340	N/A	Х	Х	635	1534	2436	3127
L9	9'-0"	293	N/A	Х	Х	483	1170	1857	2404
L10	10'-0"	212	N/A	Х	Х	483	1170	1857	2555
L11	11'-0"	171	N/A	Х	Х	488	1224	1966	2721
L12	12'-0"	128	N/A	Х	Х	419	1053	1692	2341
L13	12'-8"	N/A	N/A	Х	Х	419	1053	1692	2341
L14	13'-4"	N/A	N/A	Х	Х	334	842	1352	1879
L16	16'-0"	N/A	N/A	Х	Х	272	611	988	1380
L18	18'-0"	N/A	N/A	Х	Х	240	611	1400	1980
L20	20'-0"	N/A	N/A	Х	Х	183	610	1300	1831
L21	20'-8"	N/A	N/A	Х	Х	183	610	1300	1831
L22	22'-8"	N/A	N/A	Х	Х	130	470	1250	1831

1) FOR HEADER DEPTHS DEEPER THAN 32", USE VALUES FOR 32" DEEP HEADER

2) FOR HEADER DEPTHS NOT LISTED ON CHART, USE THE VALUES FOR THE NEXT DEPTH DOWN. (ex. L3F12 = L3F8)







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3662 AVALON PARK EAST BLVD.
SUITE 2072
ORLANDO, FL. 32828

OWNER / PROJECT:

TOWN OF 10WEY-IN-THE-HILLS RIANNE BECK LIBRARY COMMUNITY ROOM ADDITION HOWEY-IN-THE-HILLS, FLORIDA

PROFESSIONAL SEAL:

PROJECT NO: PSA2015-01

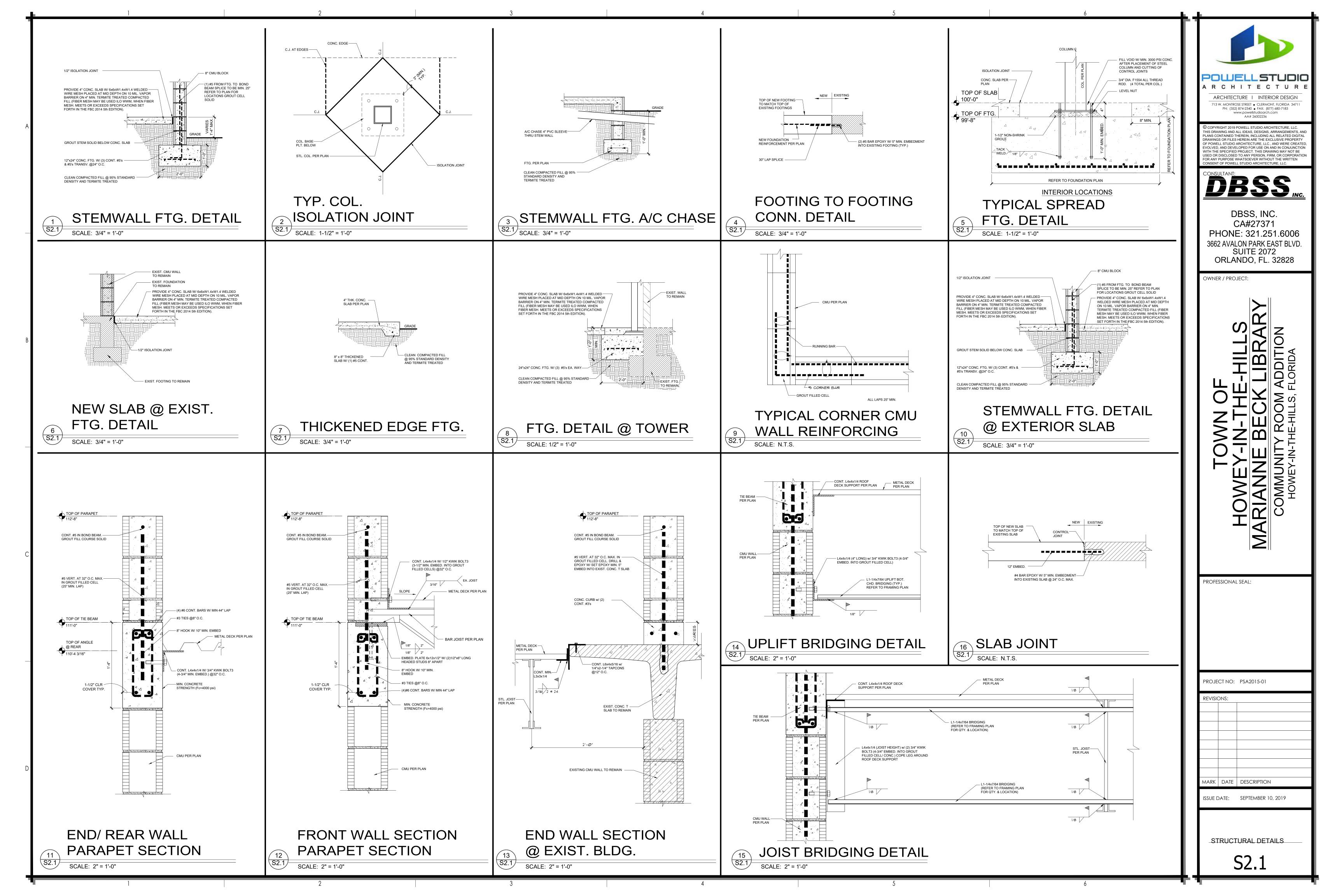
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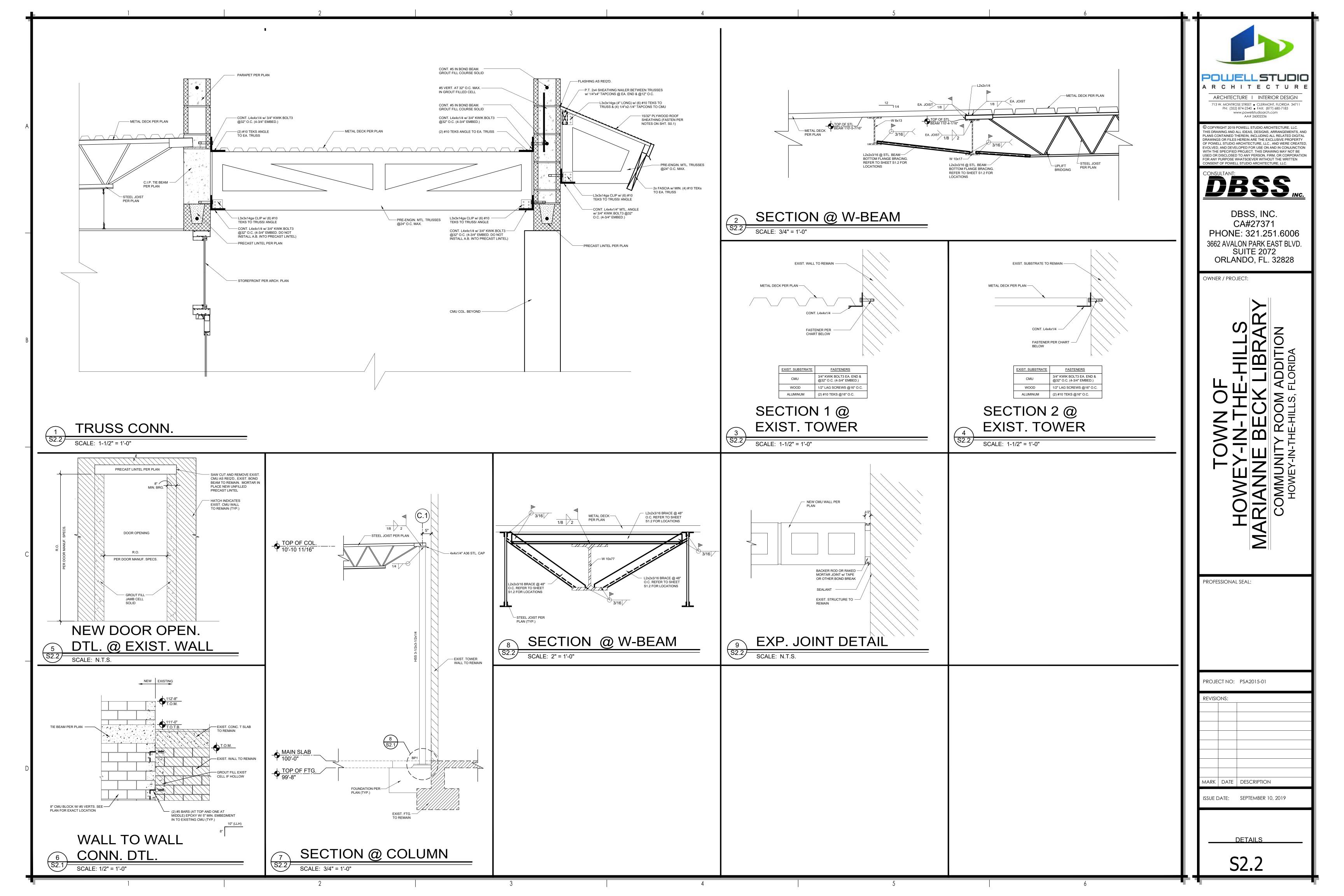
ISSUE DATE: SEPTEMBER 10, 2019

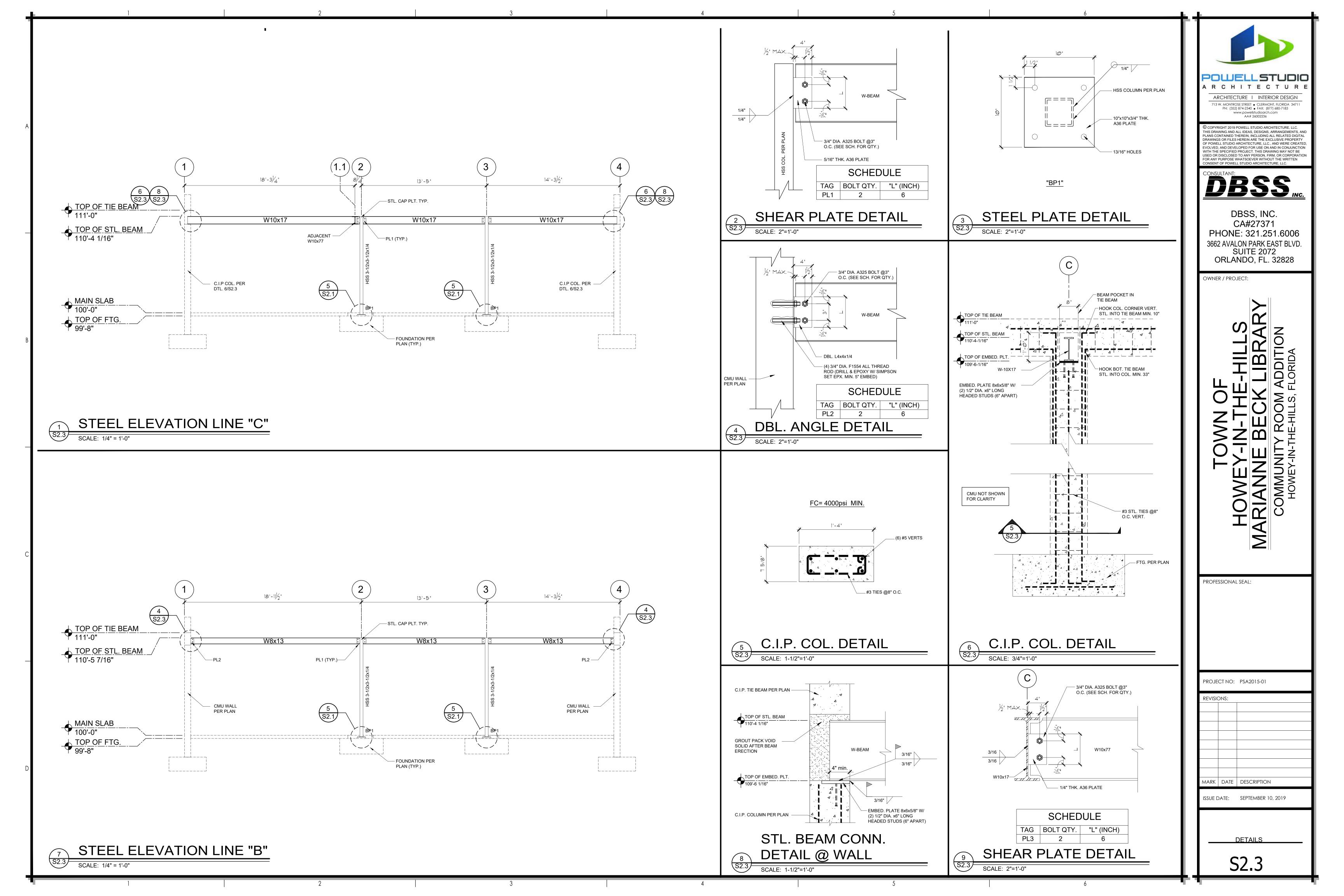
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LINTEL PLAN

S1.3







MECHANICAL NOTES:

- 1. THESE NOTES APPLY TO THE MECHANICAL SYSTEMS, UNLESS NOTED OTHERWISE
- 2. ALL FABRICATION, MOUNTING AND INSTALLATION SYSTEMS AND SYSTEM COMPONENTS SHALL BE ACCORDING TO DETAILS CONTAINED IN THIS SET OF DRAWINGS
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH ASHRAE 90.1 2013 EDITION AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
- 4. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS MOST CURRENT EDITION.
- 5. DUCT SIZES SHOWN ARE MINIMUM INSIDE DIMENSION
- 6. ALL DUCTS, JOINTS, SEAMS AND CONNECTIONS SHALL BE CONSTRUCTED, SUPPORTED AND SEALED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS AND ASHRAE 90.1 2013 EDITION. USE STAPLES, GLASS FAB. AND MASTIC AS REQ'D.
- 7. FLEXIBLE DUCTWORK SHALL BE ACOUSTICAL. LOW PRESSURE TYPE WITH INTERIOR LINER, METAL HELIX, FIBERGLASS AND COPOLYMER SEAMLESS OUTSIDE SLEEVE. THE ENTIRE FLEXIBLE DUCT ASSEMBLY SHALL BE LISTED IN ACCORDANCE WITH UL-181 CLASS 1 AIR DUCT MATERIAL. THE MAXIMUM LENGTH OF ANY FLEX DUCT SHALL BE 20'-0".

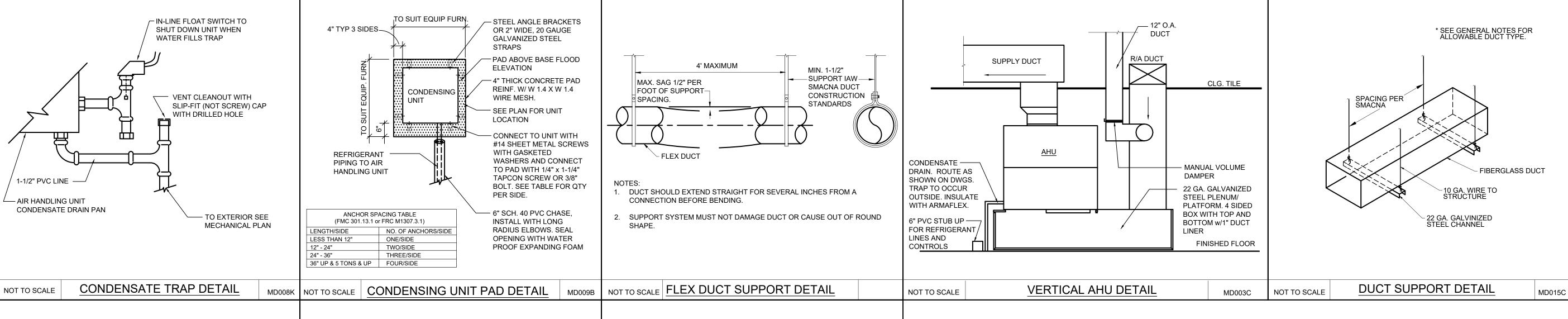
CONN. DETAIL

- 8. EXHAUST DUCTWORK SHALL BE UN-INSULATED 28ga. GALVANIZED STEEL ROUND OR RECTANGULAR AS SHOWN UNLESS NOTED OTHERWISE. EXHAUST FAN OUTLETS SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM FRESH INTAKES
- 9. ALL CONDENSATE DRAIN LINES SHALL BE PVC AND INSTALLED WITH A 'P' TRAP AT THE UNIT WITH A MINIMUM DEPTH OF 2".
- 10. DUCT MATERIAL SHALL COMPLY WITH ASHRAE 90.1 2013 EDITION R-VALUE REQUIREMENT
- 11. MAIN DUCTWORK SHALL BE DUCTBOARD AND EXTERIOR INSULATED w/ MIN. R-6 INSULATION. DUCT INSULATION TO MEET ALL CRITERIA UNDER ASHRAE 90.1 2013 EDITION.
- 12. FLEX DUCTWORK SHALL BE INSULATED TO MIN. R-6 INSULATION. INSULATION TO MEET ALL CRITERIA OF ASHRAE 90.1 2013 EDITION.
- 13. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT
- 14. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, A TEST AND BALANCE REPORT OF ALL SYSTEMS AS PERFORMED BY OUTSIDE AGENCY CERTIFIED BY AABC, AS REQUIRED BY ASHRAE 111.

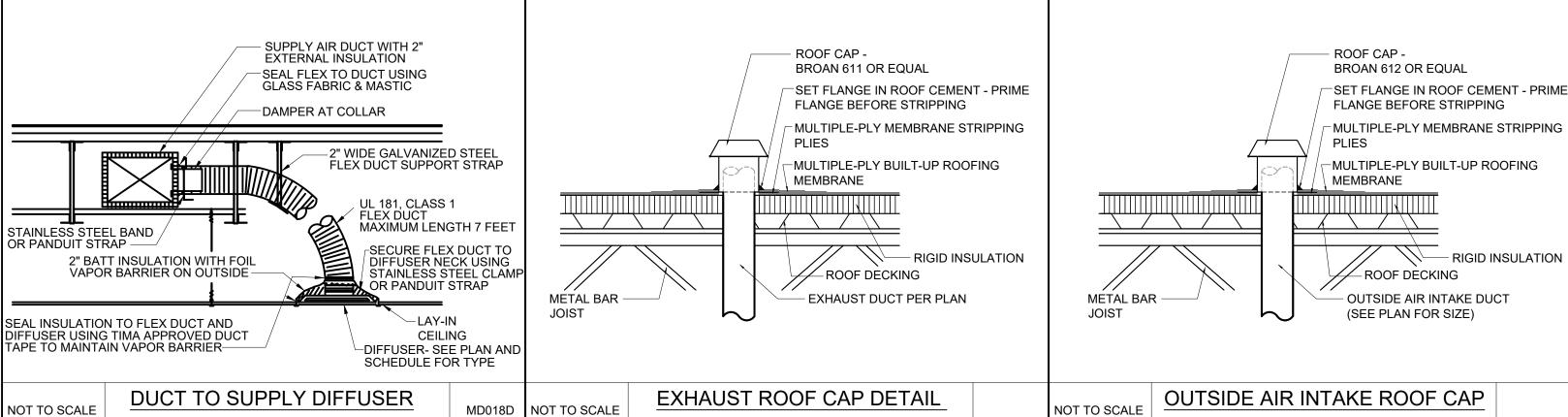
- 15. PROVIDE SMOKE DETECTOR IN SUPPLY DUCT FOR UNITS OVER 5 TONS. INSTALL PER MANUFACTURER SPECS AND INSTALLATION INSTRUCTIONS. ACTUATION OF SMOKE DETECTOR SHALL ACTIVATE A VISIBLE AND AN AUDIBLE SIGNAL IN AN APPROVED LOCATION AND SHALL PROVIDE KEYED RESET CAPABILITY
- 16. MECHANICAL CONTRACTOR TO PROVIDE ECONOMIZER ON A/C UNITS TO MEET THE REQUIREMENTS OF ASHRAE 90.1 2013 SECTIONS 4.2.2 & 6.5.1.
- 17. AN OPERATING MANUAL AND MAINTENANCE MANUAL MUST BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE AT A MINIMUM, THE FOLLOWING:
- A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- B. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- C. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- D. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

EXHAUST FAN SCHEDULE							
MARK		EF-1	EF-2				
EXHAUST AIF	R (CFM)	50	112				
	TYPE	CENTRIFUGAL	CENTRIFUGAL				
FAN	MOUNTING	CEILING	CEILING				
	DRIVE	DIRECT	DIRECT				
	HP OR WATTS	55 WATTS	87 WATTS				
MOTOR	VOLT./Ø	120/1	120/1				
	CONTROL	WIRE TO LGT.	WIRE TO LGT.				
AREA SERVE	:D	MECH. ROOM	RESTROOM				
MANUFACTU	RER	BROAN	BROAN				
MODEL#		670	L100				
APPLICABLE	NOTES	1-4	1-4				

- 1 PROVIDE BACKDRAFT DAMPER
- 2 PROVIDE INTEGRAL DISC. SWITCH.
- 3 PROVIDE WALL / ROOF CAPS AS INDICATED ON PLANS
- 4 "OR EQUAL" SUBSTITUTES ALLOWED



DETAIL



DETAIL

		WHEF Vbz = Rp = 0	D UPON 2014 FBC 5th EDITION - RE: BREATHING ZONE OUTDOOR A DA/PERSON ONE POPULATION		Ra = OA FLOW RAT Az = ZONE FLOOR	E / UNIT AREA	
UNIT#	ROOM NAME	AREA (S.F.)	OCCUPANCY CATEGORY	Ra * Az	Rp * Pz	OUTSIDE AIR (Vbz) CFM REQ'D.	DESIGN CFM
AHU - 1	MEETING A	710	CONFERENCE	0.06 x 710 = 42.6	5 x 36 = 180	222.6 CFM	230 CFM
AHU - 1	MEETING B	510	CONFERENCE	0.06 x 510 = 30.6	5 x 26 = 130	160.6 CFM	165 CFM
			TOTAL				395 CFM

SYM	MANUF CAT. NO.	TYPE	THROW	NECK	FRAME	REMARKS
Α	METALAIRE - 5700-6	CD	4-WAY	PER PLAN	24/24	LAY-IN
R	METALAIRE - RHF-6	RAG	N/A	PER PLAN	24/24	LAY-IN w/1" FILTER
CD RA	GEND: CONTROL CONTROL GENERAL GENER	RILLE	OBI	O = OPPOS	ED BLADE [DAMPER
NO 1. 2. 3. 4.	ALL DEVICES SHALL MECHANICAL CONTR	BE PRO	OVIDED WI R SHALL CO	TH FINISH TO DORDINATE I	MATCH CE	TO MATCH CEILING TYPE AS CALLED FOR BY ARCHITECT. EILING OR WALL (USUALLY WHITE). S CALLED OUT ON ARCHITECTURAL DRAWINGS. OTHERWISE OR SHOWN ON PLANS WITH DIRECTIONAL

MARK		AHU-1				
TOTAL COOLING CA	P (MBTUH@AHRI)	92.0				
SENSIBLE COOLING	CAP	58.0				
NOMINAL TONS		7.5				
SUPPLY AIR (CFM)		3000				
OUTSIDE AIR (CFM)		395				
EXTERNAL STATIC F	PRESS. (IN WTR.)	0.5				
EVAPORATOR FAN	HP	2.4				
EVAPORATOR FAIN	FLA	5.8				
ELECTRIC HEAT	KW	15				
COMPRESSOR	QUANTITY	1				
COMPRESSOR	RLA/LRA	25/164				
CONDENSER FAN	NUMBER	2				
	FLA	1.5				
AREA SERVED		BUILDING				
MANUFACTURER		CARRIER				
	MODEL NUMBER	38AUZA08A0G5				
	VOLT/PHASE	208/230V 3PH				
CONDENSER	MCA	39.1				
	MAX. HACR BRKR.	60				
	WEIGHT (LBS)	353				
	MODEL NUMBER	40RUAA08AIA5-0A0A0				
	VOLT/PHASE	208/230 3PH				
AIR HANDLING UNIT	MCA, INCL. HEAT	54.6				
	MAX. HACR BRKR.	60				
	WEIGHT	404				
MINIMUM EER		11.2				



A R C H I T E C T U R E

ARCHITECTURE I INTERIOR DESIGN

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PH: (352) 874-2340 FAX: (877) 680-7183

AA# 26002236

DBSS INC.

DBSS, INC.
CA#27371
PHONE: 321.251.6006
3662 AVALON PARK EAST BLVD
SUITE 2072
ORLANDO, FL. 32828

OWNER / PROJECT:

TOWN OF HOWEY-IN-THE-HILLS COMMUNITY ROOM ADDITION ROWEY-IN-THE-HILLS, FLORIDA

PROFESSIONAL SEAL:

PROJECT NO: PSA2015-01

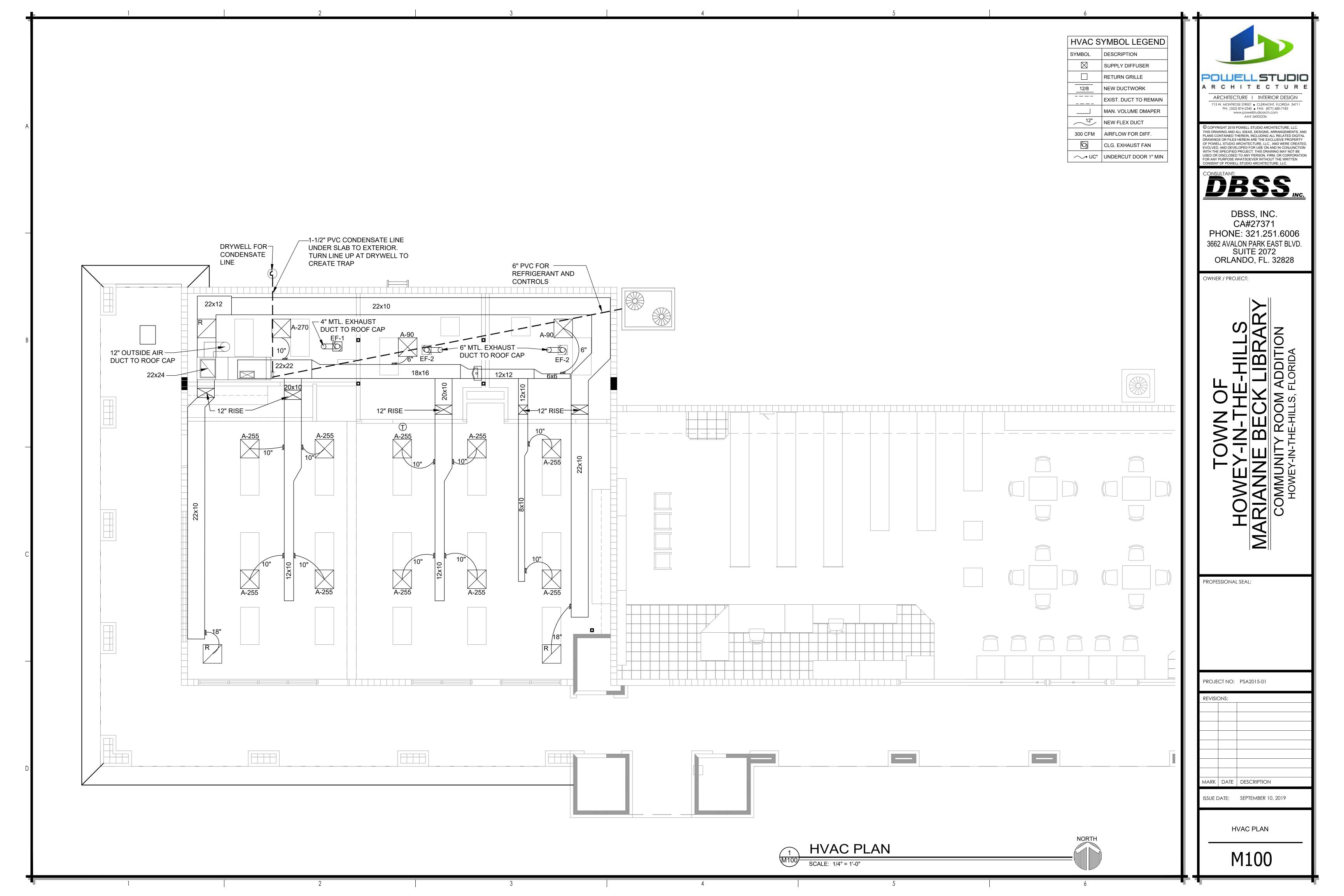
REVISIONS:

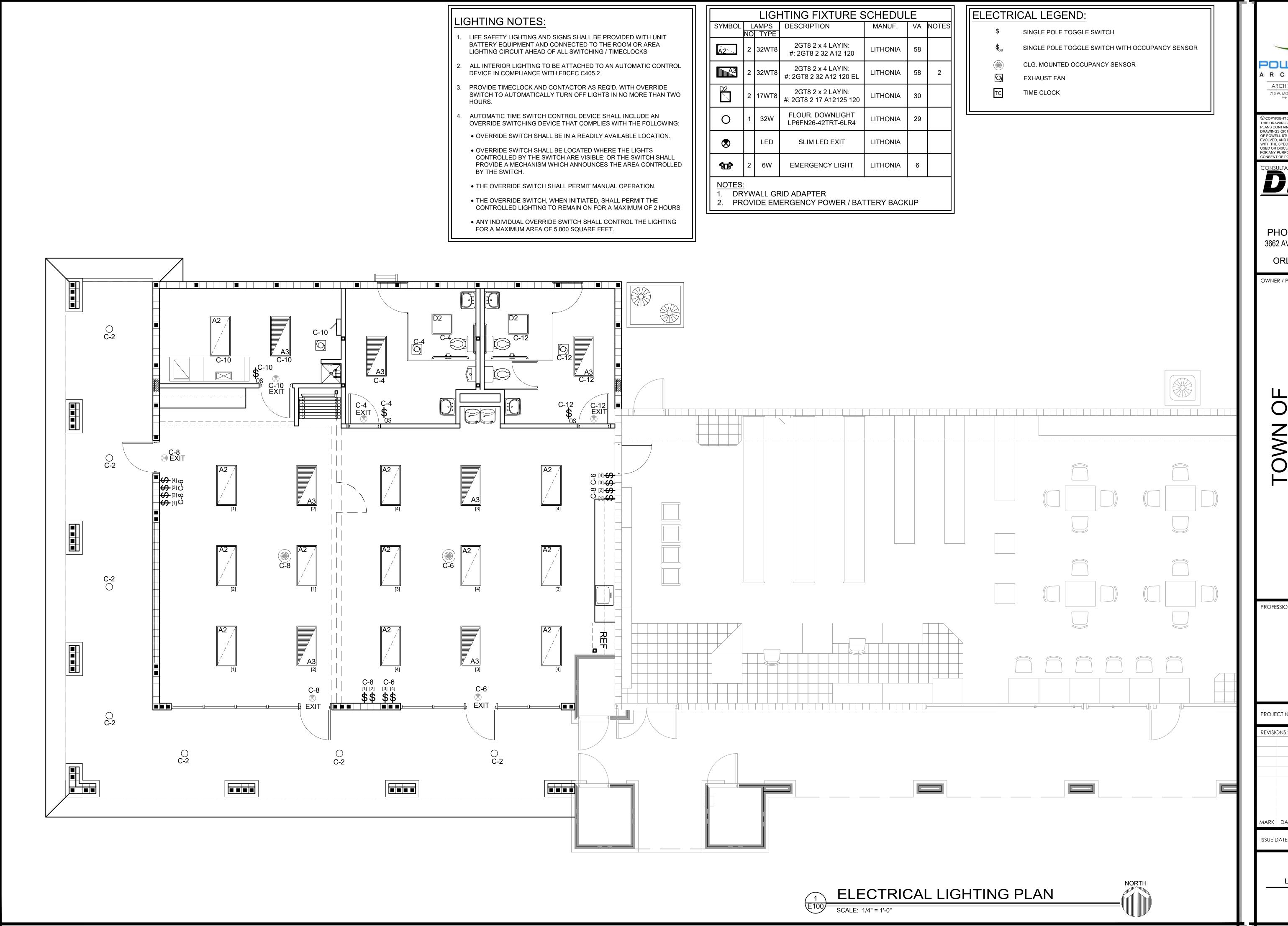
MARK DATE DESCRIPTION

ISSUE DATE: SEPTEMBER 10, 2019

HVAC NOTES

M001







POWELLSTUDIO RCHITECTURE

> ARCHITECTURE I INTERIOR DESIGN 713 W. MONTROSE STREET • CLERMONT, FLORIDA 34711 PH: (352) 874-2340 • FAX: (877) 680-7183

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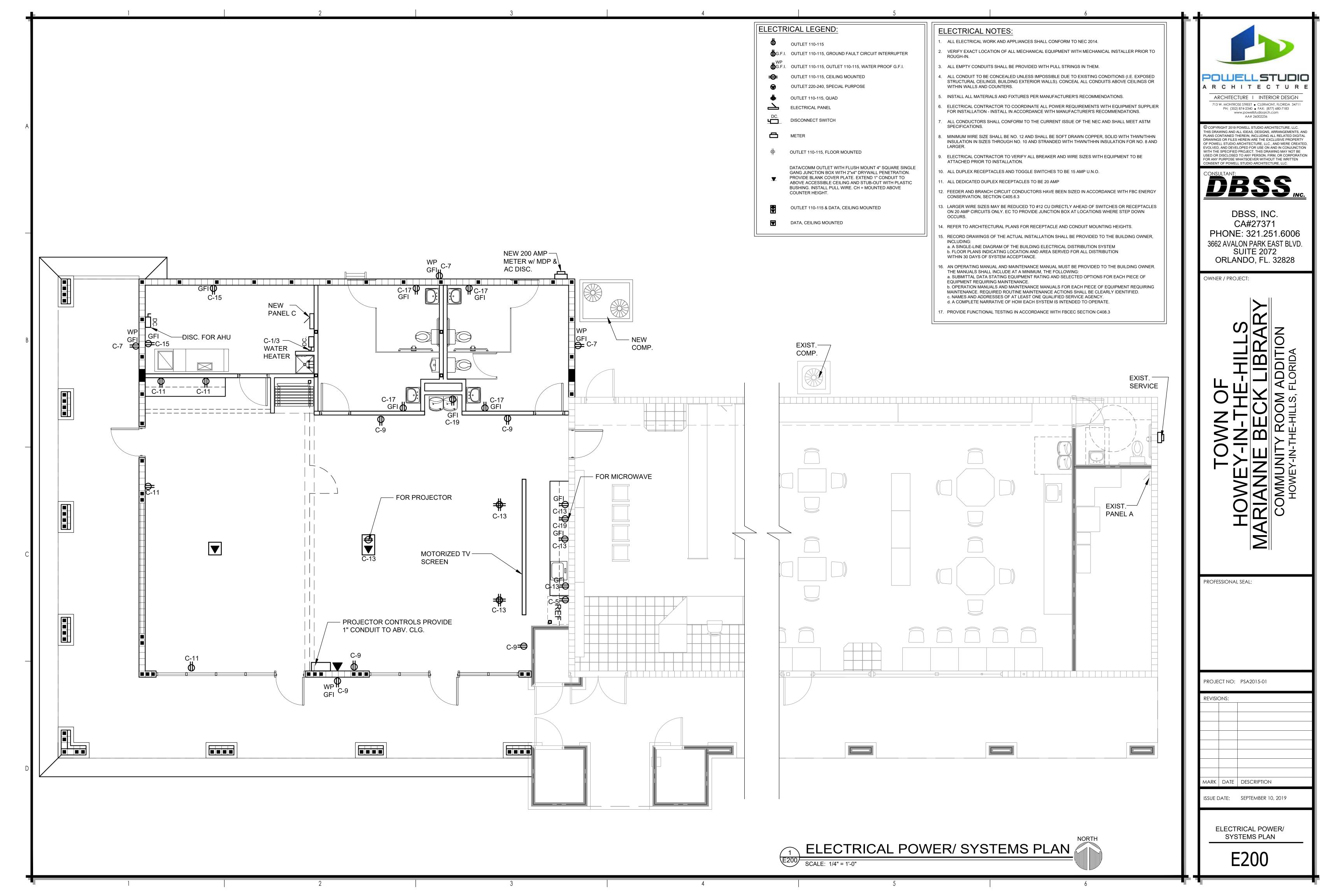
PROFESSIONAL SEAL:

PROJECT NO: PSA2015-01

MARK DATE DESCRIPTION

ELECTRICAL LIGHTING PLAN

E100

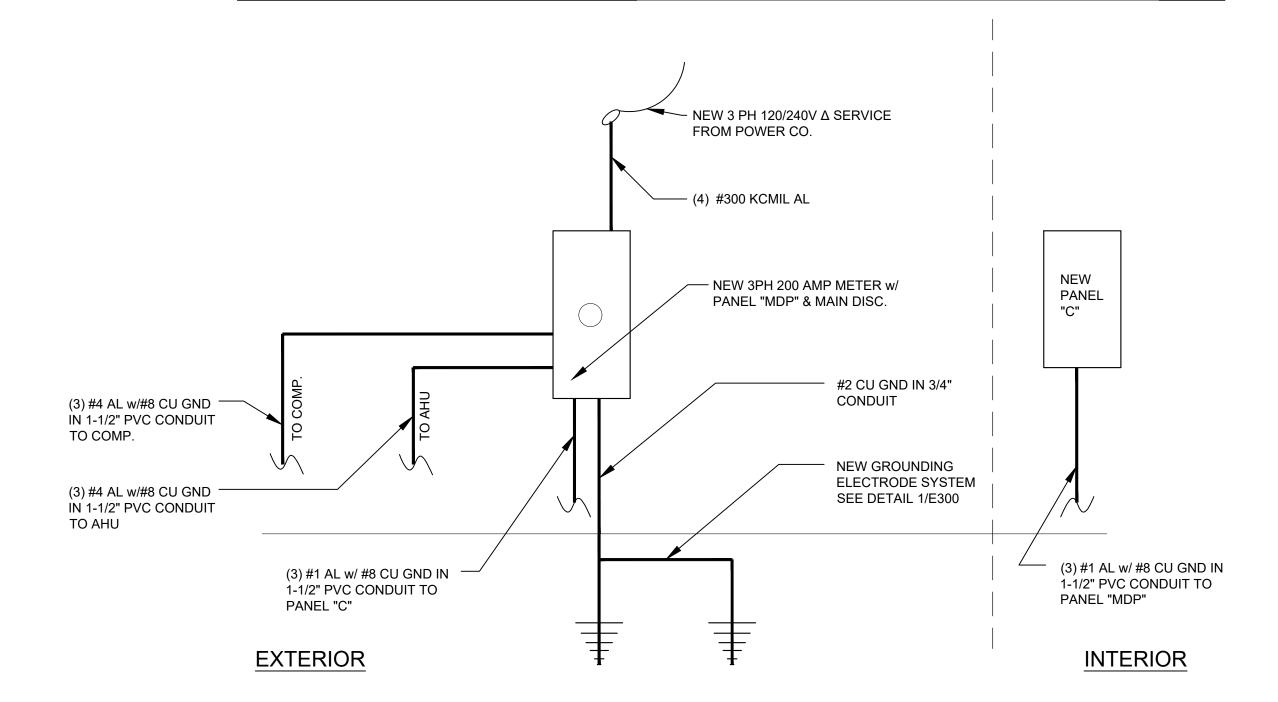


ELECTRICAL DEMAND LOAD CALCULATIONS

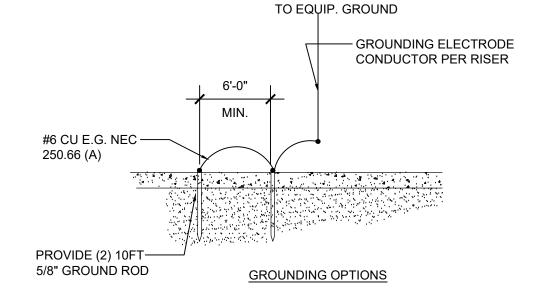
	PHASE A:	PHASE B:	PHASE C:
NEW PANEL "C" LOAD:	41 AMPS	37.8 AMPS	0
NEW COMPRESSOR LOAD:	54.6 AMPS	54.6 AMPS	54.6 AMPS
NEW AIR HANDLING UNIT LOAD:	39.1 AMPS	39.1 AMPS	39.1 AMPS
TOTAL:	134.7 AMPS	131.5 AMPS	93.7 AMPS

Panel Schedule MDP											
AIC Rating: Service:	E.C. TO VERIFY w/ UTILITY 120/240 Δ		TILITY		3PH, 4W 2			200 AMP MCB			
DESCRIPTION	KVA	BKR	CKT	Α	В	С	CKT	BKR	KVA		DESCRIPTION
EQ; COMP.	5.552	3P	1				2	2P	9.550	PANEL C	
	5.552	60	3				4	100	8.370	1	
	6.552	60	5				6				
EQ; AHU	4.692	3P	7				8				
	4.692	60	9				10				
	4.692	60	11				12				
	A PH =	19.79		B PH =	18.6		C PH =	11.24		•	
SERVES	CONN LO	DAD	FACTO	OR	FEED						
LIGHTING	0.00	Х	1.25	=	0.00						
RECEPT	0.00	Х	1.00	=	0.00						
RECEPT (REMAINDER)	0.00	х	0.50	=	0.00						
PANELS	17.92	х	1.00	=	17.92						
HVAC	31.73	X	1.00	=	31.73						
TOTALS					49.65	KVA	TOTAL	. AMPS	<u> </u>	134.7	

		Ne	w Pa	anel S	Schedu	ıle C	,				
AIC Rating: Service:		E.C. TO VERIFY w/ UTILITY 120/240 V.				1PH, 3W M.L.O.			100 AMPS		
DESCRIPTION	KVA	BKR	CKT	Α	В	CKT	BKR	KVA	DESCRIPTION		
EQ; WATER HEATER	4.500	2P	1			2	20	0.430	LGT; EXTERIOR		
	4.500	30	3			4	20	0.181	LGT; MENS RR		
REC; REFRIGERATOR	0.500	20	5			6	20	0.560	LGT; MEETING RM A		
REC; EXTERIOR	0.540	20	7			8	20	0.386	LGT; MEETING RM B		
REC; MEETING RM A	1.080	20	9			10	20	0.175	LGT; TABLES & CHAIRS		
REC; MEETING RM B	0.720	20	11			12	20	0.181	LGT; WOMENS RR		
REC; KITCHEN GFI / FLOOR	1.080	20	13			14	20	0.500	EQ; DRINKING FOUNTAIN		
REC; TABLES & CHAIRS	0.360	20	15			16			SPACE		
REC; BATHROOM GFI	0.720	20	17			18			SPACE		
REC; MICROWAVE	1.500	20	19			20			SPACE		
SPACE			21			22			SPACE		
SPACE			23			24			SPACE		
SPACE			25			26			SPACE		
SPACE			27			28			SPACE		
SPACE			29			30			SPACE		
SPACE			31			32			SPACE		
SPACE			33			34			SPACE		
SPACE			35			36			SPACE		
SPACE			37			38			SPACE		
SPACE			39			40			SPACE		
SPACE			41			42			SPACE		
	A PH =	9.55		BPH=	8.37						
SERVES	CONN LO	DAD	FACT	OR	FEED						
LIGHTING/ CONTINUOUS EQUIP.	2.41	Х	1.25	=	3.02						
RECEPT 1ST 10 KVA	6.50	X	1.00	=	6.50						
RECEPT REMAINDER	0.00	X	0.50	=	0.00						
MISC EQUIP	9.50	X	1.00	=	9.50						
TOTALS	18.41	KVA		ı	19.02	KVA	TOTAL	AMPS =	79		



MODIFIED ELECTRICAL RISER NOT TO SCALE



- 1. MEASURE EXISTING GROUND RESISTANCE, TO ASSURE THAT GROUND VALUE OF 25 OHM MAXIMUM RESISTANCE IS ACHIEVED. IF NOT, ADDITIONAL GROUNDING SHALL BE
- PROVIDED PER NEC 250.

 2. ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS. IF CONNECTION WILL REMAIN ACCESSIBLE, ACORN STYLE GROUNDING CLAMPS MAY BE USED.



A R C H I T E C T U R

ARCHITECTURE I INTERIOR DESIGN

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OWNER / PROJECT:

HOWEY-IN-THE-HILLS
ARIANNE BECK LIBRAR
COMMUNITY ROOM ADDITION

PROFESSIONAL SEAL:

PROJECT NO: PSA2015-01

REVISIONS:

ISSUE DATE: SEPTEMBER 10, 2019

MARK DATE DESCRIPTION

ELECTRICAL PANEL SCHEDULES

E300

PLUMBING FIXTURE SCHEDULE: ALL PLUMBING MATERIALS AND COMPONENTS SHALL MATCH BUILDING STANDARDS. WHERE STANDARDS ARE NOT APPLICABLE THE FOLLOWING MATERIALS AND COMPONENTS SHALL APPLY (AS APPROVED). ALL PLUMBING FIXTURES ARE BASIS OF DESIGN. SUBSTITUTIONS OF "EQUAL" EQUIPMENT MAY BE SUBMITTED FOR APPROVAL. ALL PLUMBING FIXTURES TO BE WHITE UNLESS NOTES. REFER TO ARCHITECTURAL SHEETS FOR MOUNTING HEIGHTS OF WALL MOUNTED FIXTURES. VACUUM — **RELIEF VALVE** EWC-1 ADA ELECTRIC WATER COOLER: TYPE 304 STAINLESS STEEL DRINKING FOUNTAIN POLISHED TO A SATIN FINISH WITH DUAL HEIGHT RECEPTOR, SELF CLOSING FRONT MOUNTED PUSH BUTTON TYPE BUBBLERS, STRAINER AND TAILPIECE. SURFACE MOUNTED SHUT-OFF-REFRIGERANT CHILLER UNIT CAPABLE OF 8 GPH OF 50°F AT AN AMBIENT TEMPERATURE OF 90°F. ELECTRICAL CHARACTERISTICS -VALVE (TYP.) 115V AC, 60HZ, SINGLE PHASE. WATERSENTRY VII FILTER WITH 1,500 GALLON CAPACITY TO REMOVE CYSTS, LEAD AND CHLORINE. 1-1/2" x 1-1/2" PLASTIC P-TRAP WITH CLEANOUT. DIELECTRIC -UNION (TYP.) FLOOR MOUNTED CHAIR CARRIER. COLD WATER -MODEL: FOUNTAIN - ELKAY - LZTL-8-C INLET CARRIER – ZURN L-1 ADA LAVATORY: VITREOUS CHINA LAVATORY, 20"x18", PUNCHED FOR 4" ON CENTER FITTING AND CONCEALED ARM CARRIER ELECTRIC WATER **HEATER "EWH"** 4" CENTERSET CHROME PLATED BRASS FAUCET WITH SINGLE LEVER HANDLE, VANDAL RESISTANT 0.5 GPM FLOW REGULATOR PRE-INSULATED CHROME PLATED WHEELCHAIR LAVATORY STRAINER, CAST GRID DRAIN PLUG WITH STRAINER AND OFFSET DRAIN DRAIN -ASSEMBLY WITH 1-1/4" O.D. TAILPIECE. CHROME PLATED 17 GAUGE 1-1/4"x1-1/2" BRASS P-TRAP WITH CLEANOUT. VALVE FULLY ADJUSTABLE LAVATORY CARRIER ADJUSTED TO ACCESSIBLE HEIGHT. SEE SPECS. DRAIN PAN MODEL: EQUAL TO CHINA - AMERICA STANDARD - 0355.012 MIN. 1-1/2" FAUCET - T&S BRASS - B2703/B0199-09-N05 DEEP STRAINER/TRAPS/STOP - MCGUIRE - PW 2125WC CARRIER – ZURN ZR 1200 SERIES MS-1 MOP SINK: FLOOR MOUNTED PRECAST TERRAZO WITH STAINLESS STEEL CAP, 24"x24"x12", DRAIN BODY SHALL BE STAINLESS STEEL CAST INTEGRAL, AND SHALL PROVIDE FOR A CAULKED LEAD CONNECTION AND NOT LESS THAN 1" DEEP TO A 3" PIPE. PROVIDE WITH STAINLESS STEEL WALL GUARD. SERVICE FAUCET SHALL BE CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREAD ON SPOUT. MODEL: SINK - FIAT - TSB 100/MSG2424 FAUCET - T&S BRASS - B0665 BSTR WC-1 ADA WATER CLOSET: 16-1/2" HIGH, VITREOUS CHINA, 1.6 GALLON, FLOOR MOUNTED TANK WATER CLOSET. 4"x4"x1/8" -MODEL: CHINA – AMERICAN STANDARD – 2034.014 PLATE WELDED **SEAT - CHAMPION - 5325.010** TO LEGS. (TYPICAL) BREAKROOM SINK: DOUBLE COMPARTMENT SELF RIMMING SINK CONSTRUCTED OF TYPE 304 18-8 STAINLESS STEEL 33"x19"x7-1/2" DEEP. INTERIOR AND TOP SURFACE SHALL BE POLISHED TO A HIGHLUSTER FINISH. PROVIDE SINK WITH CRUMB CUP STRAINER AND TAILPIECE. 10" CHROME PLATED BRASS FAUCET, VANDAL RESISTANT 1.5 GPM FLOW REGULATOR, SINGLE LEVER HANDLE AND 9" SPOUT. CHROME PLATED 17 GAUGE 1-1/2"x1-1/2" P-TRAP WITH CLEANOUT. MODEL: SINK – ELKAY – LR–3319 FAUCET - T&S BRASS - B2731-WS TRAP - MCGUIRE - 8912 RD-1 ROOF DRAINS: MAIN ROOF DRAIN COATED CAST IRON BODY WITH EXTENSION. COMBINATION ROOF SUMP RECEIVER AND UNDER DECK CLAMP. DRAIN SHALL HAVE COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL STOP AND GALVANIZED IRON DOME. MODEL: EQUAL TO 4" ZURN - ZC-100-C-E-R RD-2 ROOF DRAINS: SECONDARY ROOF DRAIN COATED CAST IRON BODY WITH EXTENSION, COMBINATION ROOF SUMP RECEIVER AND UNDER DECK CLAMP, DRAIN SHALL HAVE COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL STOP AND GALVANIZED IRON DOME. PROVIDE WITH 2" DEEP EXTERNAL WATER DAM. MODEL: EQUAL TO 4" ZURN - ZC-100-89-C-E-R UR-1 ADA URINAL: ELONGATED 14" RIM, VITREOUS CHINA, 0.5 GPF, WALL HUNG, MANUAL FLUSH VALVE. MODEL: AMERICAN STANDARD - 6590.501 FLUSH VALVE MODEL: AMERICAN STANDARD - 6045.051.002 FLOOR ACCESS COVER: "ZURN" Z-1400 ROUND WITH SCORIATED NICKEL BRONZE TYPE COVER SUITABLE FOR CARPET OR TILE INSERT FOR INDOOR INSTALLATIONS. WALL ACCESS COVER: "ZURN" Z-1469 ROUND STAINLESS STEEL TYPE PROVIDE WATER HAMMER ARRESTOR "ZURN" MODEL Z-1700 SIZED AS REQUIRED BY THE TABLE BELOW. INSTALL PER MANUFACTURER'S RECOMMENDATIONS IN LOCATIONS AS RECOMMENDED BY P.D.I. STANDARDS.

P.D.I. UNITS A B C D E F FIXTURE UNITS 1-11 12-32 33-60 61-113 114-154 155-330

WATER HEATER DIAGRAM PLUMBING NOTES

HOT WATER

SUPPLY

- EXPANSION TANK

OUTLET

- TEMP. &

PRESSURE

RELIEF VALVE

- ROUTE DRAIN

PAN LINE TO

PROVIDE

MAX. 6"

AIR GAP

BETWEEN

OUTLET

AND PAN

T&P

JAN. SINK

- CONSTRUCT WELDED

BASE OF 2"x2"x1/4"

OUTDOOR TYPE

PLYWOOD TOP TO

SUPPORT HEATER.

OVERALL HEIGHT OF WATER HEATER SHALL BE

14" OR HIGH ENOUGH TO ACCOMMODATE T&P

VENT STACK DETAIL

AND PAN DRAIN LINES DISCHARGE INTO

JANITOR'S SINK

BUILT-UP ROOFING SYSTEM ---

ROOF INSUL.

METAL DECK

SCALE: 1 1/2" = 1'-0"

ANGLES. PROVIDE 3/4'

MASTIC AT EDGES

OF ROOFING FELT

SET LEAD FLANGE

IN MASTIC STRIP

IN WITH 2-PLYS

OF FELT

- HOT WATER

COLD WATER

SERVICE

"ET-1"

NOTE: DIAGRAM IS FOR REFERENCE ONLY. REFER

TO MANUF. SPECS FOR INSTALLATION INFO.

- COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION. ROUTE ALL PIPING TO AVOID DUCTWORK. ELECTRICAL RACEWAYS AND BUILDING STRUCTURE. IF PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE REQUIRED FOR PLUMBING INSTALLATIONS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION TO INSURE THAT STRUCTURAL INTEGRITY IS MAINTAINED.
- 2. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT AS SPECIFICALLY NOTED.
- PIPE ROUTING IS DIAGRAMMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN FIELD.
- 4. ALL PLUMBING WORK SHALL CONFORM TO THE FLORIDA PLUMBING CODE 2017, 6th EDITION AND ADA STANDARDS, FLORIDA STATE SANITARY CODE, FLORIDA ENERGY EFF'Y CODE, AND LOCAL JURISDICTION REQUIREMENTS.
- PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE
- DRAINAGE PIPING 3" AND LARGER SHALL SLOPE NO LESS THAN 1/8" FALL PER FOOT. PIPING LESS THAN 3" SHALL SLOPE A MINIMUM OF 1/4" PER FOOT.
- VERIFY INVERT ELEVATIONS AND EXACT LOCATIONS AND SIZES OF ALL UTILITIES WHICH ARE TO BE CONNECTED BEFORE INSTALLATION.
- ALL VENTS THROUGH ROOF SHALL BE MINIMUM 10'-0" FROM AIR INTAKES.
- PLUMBING CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS OF DISSIMILAR MATERIALS.
- 10. INSTALL ISOLATION VALVES AT EACH DOMESTIC WATER BRANCH TAKEOFF AND INSTALL UNION AT EACH PIECE OF EQUIPMENT, FIXTURE AND APPLIANCE SERVICE POINT CONNECTION.
- INSTALL PRESSURE REDUCING VALVES ON BRANCH LINES SERVING FIXTURES AND/OR EQUIPMENT, WHEN WATER PRESSURE EXCEEDS 60 PSI.
- 12. SOIL, WASTE AND VENT PIPING INSTALLATION PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE LATEST APPLICABLE STATE AND LOCAL CODES.
- 13. SUPPORT ALL PIPING SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES AND WITH INDUSTRY STANDARDS FOR HANGER AND WALL MOUNTED SUPPORT SYSTEMS.
- 14. INSTALL WATER HAMMER ARRESTORS AS REQUIRED.
- 15. INSULATE ALL HOT WATER PIPING SYSTEMS WITH MINIMUM 1" THINK R=6.8 CLOSED CELL FOAM INSULATION, ARMAFLEX, IMOCA, OR EQUAL.
- 16. WORK INCLUDES BUT IS NOT NECESSARILY LIMITED TO: WATER SUPPLY PIPING; SOIL, WASTE AND VENT PIPING, ROOF DRAINS, AND DOWN SPOUTS.
- 17. TEST ALL POTABLE WASTE AND VENT PIPES FOR LEAKS TO ASSURE WATER TIGHTNESS FOR REQUIRED SERVICES.
- 18. ALL PIPES SHALL BE CAPPED DURING CONSTRUCTION FOR PROTECTION FROM VANDALISM AND CONSTRUCTION WASTE SPILLAGE. TEMPORARILY GLUE PVC CAPS ON ALL VENTS.
- 19. FLOW RESTRICTORS SHALL BE FURNISHED AND INSTALLED IN ALL LAVATORY HOT WATER FAUCETS TO LIMIT FLOW TO 0.5 GPM MAXIMUM.
- 20. TEMPERED WATER SHALL BE DELIVERED FROM LAVATORIES AND GROUP WASH FIXTURES LOCATED IN PUBLIC TOILET FACILITIES PROVIDED FOR COSTUMERS. PATRONS AND VISITORS. TEMPERED WATER SHALL BE DELIVERED THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3A.
- 21. AIR ADMITTANCE VALVES MAY BE BE USED FOR FIXTURES IN LIEU OF CONNECTING TO VENTING SYSTEM
- 22. ALL POTABLE WATER PLUMBING PIPING, FITTING, DEVICES, FIXTURE, SOLDER, AND FLUX SHALL BE "LEAD FREE" IN COMPLIANCE WITH FLORIDA PLUMBING CODE SECTION 605

PIPING LEGEND

SYMBOL **DESCRIPTION SANITARY** COLD WATER **HOT WATER**

PLUMBING EQUIMENT SCHEDULE

MANUFACTURER & CAT. NO REMARKS VENT TERMINAL WITHIN BLDG. UL LISTED & AAVAIR ADMITTANCE VALVE STUDOR MIN-VENT OR EQUAL EWH WATER HEATER GENERAL ELECTRIC, GE30S06AAG 30 GAL., 4500W, 240V/1PH ET-1 **EXPANSION TANK** AMTROL INSTALL PER MANUF. SPECS

THE MANUFACTURERS AND MODEL NUMBERS INDICATED IN THIS SCHEULE SERVE AS A BASIS OF DESIGN ONLY. THE CONTRACTOR MAY SUBSTITUTE PRODUCTS OF EQUL QUALITY IF APPROVED BY THE OWNER.

POWELLSTUDIO RCHITECTURE ARCHITECTURE I INTERIOR DESIGN

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PROFESSIONAL SEAL:

PROJECT NO: PSA2015-01

REVISIONS:

SSUE DATE: SEPTEMBER 10, 2019

MARK | DATE | DESCRIPTION

PLUMBING NOTES

P001

