ABBREVIATIONS

ABV above AFF above finish floor ASC above suspended ceiling ACC access ACFL access floor AP access panel AC acoustical ACPL acoustical plaster ACT acoustical tile ACR acrylic plastic ADD addendum ADH adhesive ADJ adjacent ADJT adjustable AGG aggregate A/C air conditioning ALT alternate AL aluminum ANC anchor, anchorage AB anchor bolt ANOD anodized APX approximate ARCH architect (ural) AD area drain ASB asbestos ASPH asphalt AT asphalt tile AUTO automatic BP back plaster (ed) BSMT basement BRG bearing BPL BJT bearing plate bed joint BM bench mark BEL below BET between BVL BIT beveled bituminous BLK block BLKG blocking BD board BW both ways BOT bottom BRK brick BRZ bronze BLDG building BUR built up roofing BBD bulletin board CAB cabinet CAD cadmium CPT carpet (ed) CSMT casement CI cast iron CIPC cast-in-place concrete CST cast stone CB catch basin CK calk (ing) caulk (ing) CLG ceiling CHT ceiling height CEM cement CPL cement plaster (portland) CM centimeter (s) CER ceramic СТ ceramic tile CMT ceramic mosaic (tile) CKBD chalkboard CHAM chamfer CR chromium (plated) CIR circle CIRC circumference CLR clear (ance) CLS closure COL column COMB combination COMPT compartment COMPO composition (composite) COMP compress (ed), (ion), (ible) CONC concrete CMU concrete masonry unit CX connection CONST construction CONT continuous or continue CONTR contract (or) CLL contract limit line CJT control joint CPR copper CG corner guard CORR corrugated CTR counter CFL counterflashing CS countersink CTSK countersunk screw CRS course (s) CRG cross grain CFT cubic foot CYD cubic yard DPR damper DP dampproc dampproofing dead load DL DEM demolish, demolition DMT demountable DEP depressed DLT detail DIAG diagonal DIAM diameter DIM dimension DPR dispenser DIV division DR door DA doubleacting DH double hung DTA dovetail anchor DTS DS dovetail anchor slot downspout D drain DRB drainboard DT drain tile DWR drawer DWG drawing DF drinking fountain DW EF dumbwaiter each face east ELEC electric (al) EP electrical panelboard EWC electric water cooler EL elevation ELEV elevator elevation EMER emergency ENC enclose (ure) EQ equal equal EQP equipment ESC escalator EST estimate EXCA excavate EXH exhaust EXG existing EXMP expanded metal plate EB expansion bolt EXP exposed EXT exterior EXS extra strong FB face brick FOC face of concrete FOF face of finish FOM face of masonry FOS face of studs FF factory finish factory finish FAS fasten fastener FBD fiberboard FN fence FGL fiberglase

2	
N FE	finish (ed)
=L	finished floor elevation finished floor line
A	fire alarm
BRK	fire brick
=	fire extinguisher
EC	fire extinguisher cabinet
HS	fire hose station
PL	fireplace
S	fireproof
RC	fire-resistant coating
RT	fire-retardant
_G	flashing
HMS	flathead machine screw
HWS	flathead wood screw
_X _R	flexible
CO	floor (ing) floor cleanout
)	floor drain
PL	floor plate
_UR	fluorescent
JT	flush joint
rg	footing
Rg	forged
ND	foundation
R	frame (d), (ing)
RA S	fresh air full size
30	furnished by others
JR	furred (ing)
JT	future
A	gage, gauge
V	galvanized
l	galvanized iron
P	galvanized pipe
SS KT	galvanized steel sheet gasket (ed)
C	general contract (or)
L	glass, glazing
LB	glass block
LF	glass fiber
CMU ST	glazed concrete masonry units
В	glazed structural tile grab bar
D	grade, grading
RN	granite
VL	gravel
F	ground face
T	grout
PDW	gypsum dry wall
PL	gypsum lath
PPL	gypsum plaster
PT H	gypsum tile
BD	handhold hardboard
DW WD	hardwood
JT	head joint
DR	header
TG	heating
VAC	heating/ventilation/air conditioning
D	heavy duty
T	height
x	hexagonal
ES	high early-strength
C	hollow core
M	hollow metal
K	hook (s)
OR	horizontal
B	hose bibb
WH	hot water heater
ICIN	incinerator
	include (d), (ing) inside diameter
IS	insulate (d), (ion)
ISC	insulating concrete
ISF	insulating fill interior
K	interlock
ITM	intermediate
IV	invert
S	iron pipe size
C	janitor's closet
Г	joint
=	joint filler
CPL	joist keene's cement plaster
PL	kickplate
T	kitchen
D	knockout
BL	label
٨B	laboratory
AD	ladder
B	lag bolt
AM	laminate
AV	lavatory
4	left hand length
	light light control
o	lightproof
N	lightweight
NC	lightweight concrete
MS	limestone
ΓL	lintel
-	live load
/R	louver
PT	low point
B	machine bolt
I	malleable iron
H	MH manhole
FR	manufacture (er)
RB	marble
FR	manufacture (er)
AS	masonry
O	masonry opening
TL	material (s)
AX	maximum
ECH	mechanic (al)
С	medicine cabinet
ED	medium
BR	member
MB	membrane
ET	metal
FD	metal floor decking
TFR	metal furring
rd	metal roof decking
Thr	metal threshold
M	meter millimeter (s)
WK	milwork
IN	minimum
IR	mirror
ISC	miscellaneous
OD	modular
LD	molding, moulding
R	mop receptor
T	mount (ed), (ing)
OV	movable
ULL	mullion nailable
AT	natural nickel
R R RC	noise reduction
RC	noise reduction coefficient
OM	nominal
OM	nonmetallic North
IC	not in contract
TS	not to scale

OBS	obscure
OC	on center (s)
OP	opaque
OPG	opening
OJ	open-web joist
OPP	opposite
OPH	opposite hand
OPS	opposite surface
OD	outside diameter
OHMS	ovalhead machine screw
OHWS	ovalhead wood screw
OA	overall
OH	overhead
PNT	paint (ed)
PNL	panel
PB	panic bar
PTD	paper towel dispenser
PTR PAR	paper towel receptor
PK	parallel parking
PBD	particle board
PTN	partition
PV	pave (d), (ing)
PVMT	pavement
PED	pedestal
PERF	perforate (d)
PERI	perimeter
PLAS	plaster
PLAM	plastic laminate
PL	plate
PG	plate glass
PWD	plywood
PT	point
PVC	polyvinyl chloride
PE	porcelain enamel
PTC	post-tensioned concrete
PCF	pounds per cubic foot
PFL	pounds per linear foot
PSF	pounds per square foot
PSI	pounds per square inch
PCC	precast concrete
PFB	prefabricate (d)
PFN	prefinished
PRF	preformed
PSC	prestressed concretee
PL	property line
QT	quarry tile
RBT	rabbet, rebate
RAD	radius
RL	rail (ing)
RWC REF	rainwater conductor reference
RFL	reflect (ed),(ive)(or)
REFR	refrigerator
REG	register
RE	reinforce (d), (ing)
RCP	reinforced concrete pipe
REM	remove
RES	resilient return
RA	return air
RVS	reverse (side)
REV	revision (s), revised
RH	right hand
ROW	right of way
R	riser
RVT	rivet
RD	roof drain
RFH	roof hatch
RM	room
RO	rough opening
RB	rubber base
RBT	rubber tile
RBL	rubber stone
SFGL	safety glass
SCH	schedule
SCN	screen
SNT	sealant
STG	seating
SEC	section
SSK	service sink
SHTH	sheating
SHT	sheet
SG	sheet glass
SH	shelf, shelving
SHO	shore (d), (ing)
SIM	similar
SKL	skylight
SL	sleeve
SC	solid core
SP	sound proof
S	south
SPC	spacer
SPK	speaker
SPL	special
SPEC	specification(s)
SQ	square
SST	stainless steel
STD	standard
STA	station
ST	steel
STO	storage
SD	storm drain
STR	structural
SCT	structural clay tile
SUS	suspended
SYM	symmetry (ical)
SYN	synthetic
SYS	system
TKBD	tackboard
TKS	tackstrip
TEI	telephone
TV	television
TC	terra cotta
TZ	terrazo
THK	thick (ness)
THR	threshold
TPTN	toilet partition
TPD	toilet paper dispenser
TOL	tolerance
T&G TSL	tongue and groove
TST	top of slab top of steel top of well
TW	top of wall
TB	towel bar
TR	transom
T	tred opening
TYP	typical
UC	undercut
UNF	unfinished
UR	urinal
VJ	v-joint
VB	vapor barrier
VAR	varnish
VNR	veneer
VRM	verniculite
VERT	vertical
VERT VG VIN	vertical grain
VAT	vinyl vinyl asbestos tile vinyl base
VB	vinyl base
VF	vinyl fabric
VT	vinyl tile
WSCT	wainscot
WTW	wall to wall
WH	wall hung
WC	water closet
WP	waterproofing
WR	water repellent
WS	waterstop
WWF	welded wire fabric
W	west
WHB	wheel bumper
W	width, wide
WIN	window
WG	wired glass
WM WO	wired glass wire mesh without
WD	wood
WB	wood base
WPT	working point
WI	wrought iron
VVI	wrought iron

MATERIALS LEGEND

	GEND
	WOOD BLOCKING IOUS WOOD BLOCKING (SHIM)
STEEL	
GYPSUM BOAI	RD
BATT INSULAT	ASONRY UNITS
SYMBO	LS
X/AX.X	ELEVATION SYMBOL
X/AX.X	SECTION/DETAIL SYMBOL
$\langle \mathbf{X} \rangle$	WALL TYPE SYMBOL
BOOM NAME	WINDOW SYMBOL
DM #	ROOM NAME & NUMBER SYMBOL FINISH NUMBER
	DOOR SYMBOL
PARKING	& REQUIREMENTS
GENERAL NOTES	
	IG MATERIAL AND WORKMANSHIP, SHALL ERNATIONAL BUILDING CODE.
) HERE WITHIN, SHALL BE AS TISSUE OF THE ANNUAL BOOK OF AN SOCIETY FOR TESTING AND MATERIALS
AND SITE CONDITIONS BEFOR	LD VERIFY ALL DIMENSIONS, ELEVATIONS RE BEGINNING WORK. THE ARCHITECT DIATELY BE NOTIFIED IN WRITING OF
THE CONTRACTOR SHALL CA THE MECHANICAL, PLUMBING ARCHITECTURAL WORK PRIC	REFULLY STUDY AND COORDINATE A, AND ELECTRICAL SYSTEMS WITH THE OR TO INSTALLATION AND SHALL NOTIFY OF ALL APPARENT INCONSISTENCIES
OF THE WORKING DRAWINGS TO THE ATTENTION OF THE A	FLICTS BETWEEN THE VARIOUS ELEMENTS S AND SPECIFICATIONS, SHALL BE BROUGHT RCHITECT OR ENGINEER. WORK SHOULD ITION IS GIVEN BY THE ARCHITECT OR ENGINEER.
DETAILS, SHALL TAKE PRECE TYPICAL DETAILS, SHALL BE	EEN GENERAL NOTES AND DETAILS, THE EDENCE OVER THE GENERAL NOTES. USED WHENEVER APPLICABLE. REFER ORMATION NOT COVERED BY THESE NOTES
	SHOWN FOR ANY PART OF WORK, THE HE SAME AS FOR SIMILAR WORK.
7. COORDINATE FOUNDATION PL ALL OPENINGS, INSERTS AND	LANS AND MECHANICAL DRAWINGS, FOR O OTHER RELATED ITEMS.
	ACE OF WALLS UNLESS NOTED OTHERWISE. STEEL ITEMS NOT SHOWN ON STRUCTURAL
DRAWINGS MAY BE REQUIRE SHALL COORDINATE ALL REC	D. GENERAL CONTRACTOR AND FABRICATOR QUIREMENTS AND SHALL NOTIFY THE ARCHITECT T INCONSISTENCIES FOR CLARIFICATION.
	WING. ANY DIMENSIONS, QUESTIONS, IE ARCHITECT OR ENGINEER.
	PROJECT
ARCHITECT: RUDY MOLINA, A.I.A.	(MILNET ARCHITECTURAL SERVICES 608 S. 12th STREET Mc ALLEN. TEXAS 78501 (956) 688-5656
OWNER: TROPICAL TEXAS BEHAVIORAL HEALTH	1901 S. 24TH AVENUE S EDINBURG, TEXAS 78539

TROPICAL TEXAS BEHAVIORAL HEALTH

MEP: LEO MUNOZ

ARCHITECTURAL

COVER SHEET
CODE REVIEW FLOOR PLANS
SITE PLAN

STRUCTURAL

D1.2

A1.3

S101	STRUCTURAL SPECIFICATIONS
S102	STRUCTURAL SPECIFICATIONS
S201	FOUNDATION PLAN
S301	LOW FRAMING PLAN
S302	LOW ROOF FRAMING PLAN
S401	FOUNDATION DETAILS
S402	FOUNDATION DETAILS
S501	FRAMING DETAILS
S502	FRAMING DETAILS
ARCHITE	CTURAL

DAS1.0	SITE DEMO
D1.0	DEMO FLOOR PLAN - SECTION A
D1.1	DEMO FLOOR PLAN - SECTION B
D1.2	DEMO FLOOR PLAN - SECTION C
D1.3	DEMO RCP - OVERALL
A1.0	FLOOR PLAN - SECTION A
A1.1	FLOOR PLAN - SECTION B
A1.2	FLOOR PLAN - SECTION C
A1.3	ROOF PLAN
A2.0	EXTERIOR ELEVATIONS
A2.1	EXTERIOR ELEVATIONS
A2.2	EXTERIOR ELEVATIONS
A3.0	ENLARGED PLANS
A3.1	ENLARGED PLANS
A3.2	ENLARGED PLAN KITCHEN
A4.0	REFLECTED CEILING PLAN - SECTION A
A4.1	REFLECTED CEILING PLAN - SECTION B
A4.2	REFLECTED CEILING PLAN - SECTION C

ARCHITECTURAL

5.0	BUILDING SECTIONS
5.1	BUILDING SECTIONS
5.2	WALL SECTIONS
5.3	WALL SECTIONS
6.0	INTERIOR ELEVATIONS
6.1	INTERIOR ELEVATIONS
6.2	MILLWORK
7.0	SCHEDULES
7.1	DOOR & WINDOW TYPES
7.2	ROOM FINISH SCHEDULE
8.0	ADA DETAILS

MECHANICAL

MD1.0	MECHANICAL DEMOLITION PLAN
M1.0	MECHANICAL FLOOR PLAN SECTION C
M1.1	MECHANICAL FLOOR PLAN SECTION B
M1.2	MECHANICAL FLOOR PLAN SECTION A
M2.0	MECHANICAL GENERAL NOTES
M3.0	MECHANICAL DETAILS
M3.1	MECHANICAL SCHEDULES
M4.0	MECHANICAL KITCHEN EQUIPMENT
M4.1	MECHANICAL KITCHEN EQUIPMENT
M4.2	MECHANICAL CONTROLS
ELECTRIC	AL .

ES1.1	ELECTRICAL SITE PLAN
ES1.2	LIGHTING SITE PLAN
ED1.1	ELECTRICAL DEMOLITION PLAN
E1.1	LIGHTING FLOOR PLAN SECTIO
E1.2	LIGHTING FLOOR PLAN SECTIO

HOP VILLA RENOVATIONS



CONTACTS

956-289-7000

TRINITY MEP

956-973-0500

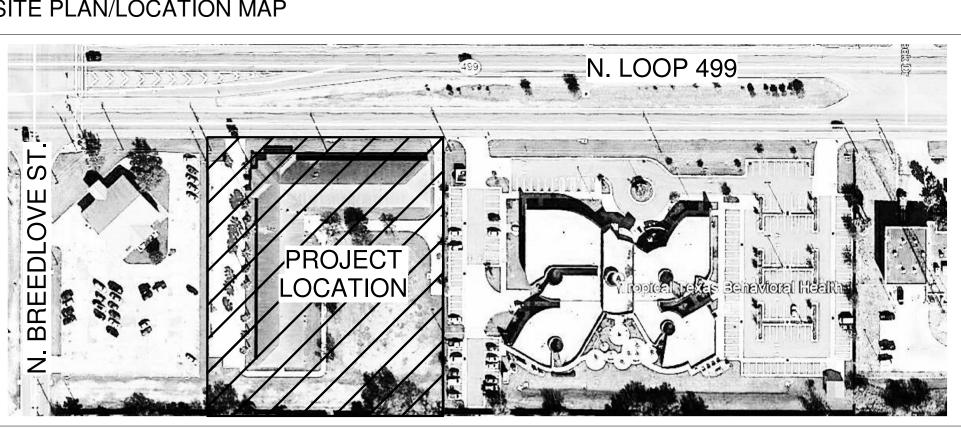
3533 MORELAND DR. WESLACO, TEXAS 78596 CIVIL:

STRUCTURAL: SIMON SOLORIO

SOLORIO, INC. 108 CLEO DAWSON MISSION, TEXAS 78572 PHONE NUMBER

GENERAL CONTRACTOR: T.B.D.

SITE PLAN/LOCATION MAP



INDEX OF DRAWINGS

DN A ON B

PLUMBING	3
PD1.1	PLUMBING DEMOLIOTION FLOOR PLAN
P1.1	PLUMBING FLOOR PLAN SECTION A
P1.2	PLUMBING FLOOR PLAN SECTION B
P1.3	PLUMBING FLOOR PLAN SECTION C
P2.1	PLUMBING DOMESTIC WATER FLOOR PLAN SECTION A
P2.2	PLUMBING DOMESTIC WATER FLOOR PLAN SECTION B
P2.3	PLUMBING DOMESTIC WATER FLOOR PLAN SECTION C
P3.1	PLUMBING SCHEDULES
P4.1	PLUMBING DETAILS
P4.2	PLUMBING DETAILS
FP1.0	FIRE PROTECTION FLOOR PLAN



E1.3

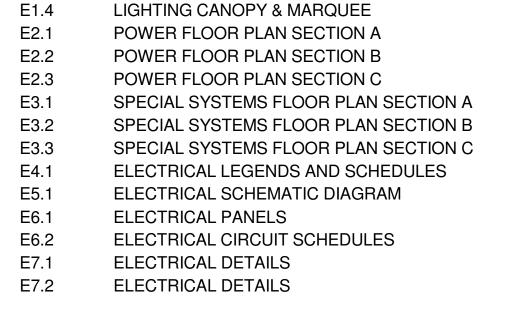




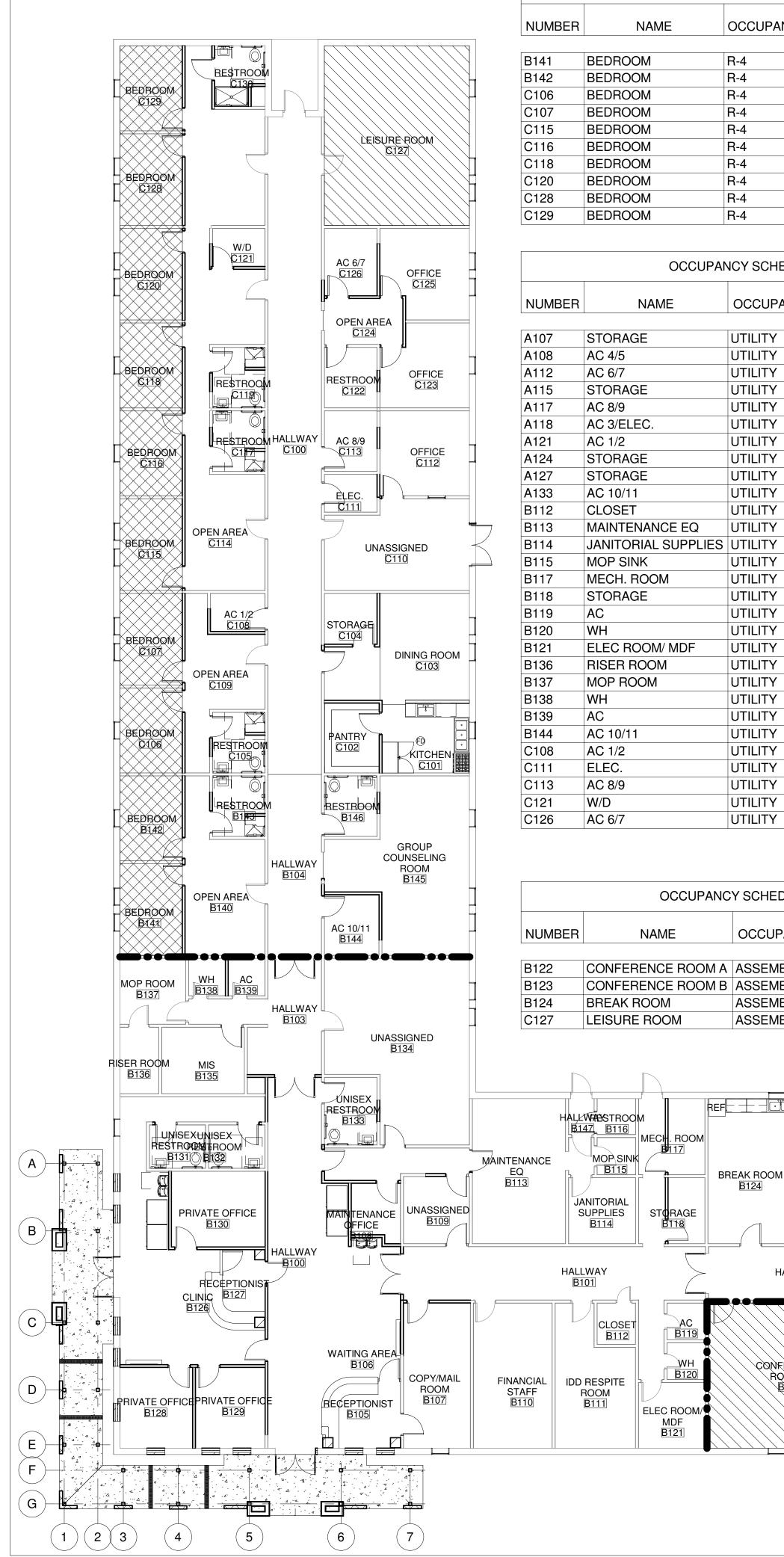
F
PROJECT NUMBER
217027
DATE
AUGUST 20, 2018
ISSUE FOR SEALED
PROPOSALS

SHEET NUMBER





LIGHTING FLOOR PLAN SECTION C



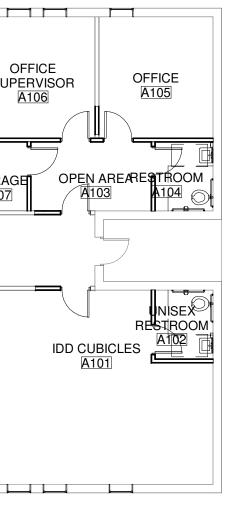
			OCC.	EXIT WIDTH
	OCCUPANCY	AREA	LOAD	TOTAL
	R-4	127 SF	1	0' - 0 3/16"
	R-4	117 SF	1	0' - 0 3/16"
	R-4	117 SF	1	0' - 0 3/16"
	R-4	127 SF	1	0' - 0 3/16"
	R-4	127 SF	1	0' - 0 3/16"
	R-4	117 SF	1	0' - 0 3/16"
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	R-4	127 SF	1	0' - 0 3/16"
	R-4	127 SF	1	0' - 0 3/16"
	R-4	117 SF	1	0' - 0 3/16"
		1219 SF	6	0' - 1 27/32"
CUPA	NCY SCHEDUL	E - UTILITY		
	OCCUPANCY	AREA	OCC. LOAE	
	UTILITY	46 SF		
	UTILITY	61 SF		
	UTILITY	49 SF		
	UTILITY	50 SF		
	UTILITY	49 SF		
	UTILITY	58 SF		
	UTILITY	64 SF		
	UTILITY	50 SF		
	UTILITY	50 SF		
	UTILITY	66 SF		
	UTILITY	36 SF		
Q	UTILITY	323 SF		
		98 SF		
	UTILITY	32 SF		
	UTILITY	63 SF		
	UTILITY	54 SF		
	UTILITY	32 SF		
	UTILITY	32 SF		
F	UTILITY	98 SF		
•	UTILITY	57 SF		
	UTILITY	96 SF		
	UTILITY	30 SI 31 SF		
	UTILITY	31 SF		
	UTILITY	74 SF		
	UTILITY	46 SF		
	UTILITY	40 ST 44 SF		
	UTILITY	71 SF		
	UTILITY	45 SF		
	UTILITY	79 SF		
				1

	OCCUPANCY SCHEDULE - BUSINESS					OCCUPANCY SCHEDULE - BUSINESS					
NUMBER	NAME	OCCUPANCY	AREA	OCCUPAN T LOAD	EXIT WIDTH TOTAL	NUMBER	NAME	OCCUPANCY	AREA	OCCUPAN T LOAD	EXIT WIDTH TOTAL
A100	HALLWAY	BUSINESS	1515 SF	15	0' - 4 17/32"	C103	DINING ROOM	BUSINESS	215 SF	2	0' - 0 21/32"
A101	IDD CUBICLES	BUSINESS	521 SF	5	0' - 1 9/16"	C104	STORAGE	BUSINESS	60 SF	1	0' - 0 3/16"
A102	UNISEX RESTROOM	BUSINESS	49 SF	0	0' - 0 5/32"	C105	RESTROOM	BUSINESS	70 SF	1	0' - 0 7/32"
A103	OPEN AREA	BUSINESS	103 SF	1	0' - 0 5/16"	C109	OPEN AREA	BUSINESS	189 SF	2	0' - 0 9/16"
A104	RESTROOM	BUSINESS	49 SF	0	0' - 0 5/32"	C110	UNASSIGNED	BUSINESS	275 SF	3	0' - 0 13/16"
A105	OFFICE	BUSINESS	172 SF	2	0' - 0 1/2"	C112	OFFICE	BUSINESS	169 SF	2	0' - 0 1/2"
A106	OFFICE SUPERVISOR	BUSINESS	184 SF	2	0' - 0 9/16"	C114	OPEN AREA	BUSINESS	678 SF	7	0' - 2 1/32"
A109	OFFICE SUPERVISOR	BUSINESS	184 SF	2	0' - 0 9/16"	C117	RESTROOM	BUSINESS	70 SF	1	0' - 0 7/32"
A110	OFFICE SUPERVISOR	BUSINESS	172 SF	2	0' - 0 17/32"	C119	RESTROOM	BUSINESS	70 SF	1	0' - 0 7/32"
A111	RESTROOM	BUSINESS	50 SF	0	0' - 0 5/32"	C122	RESTROOM	BUSINESS	71 SF	1	0' - 0 7/32"
A113	IDD CUBICLES	BUSINESS	392 SF	4	0' - 1 3/16"	C123	OFFICE	BUSINESS	155 SF	2	0' - 0 15/32"
A114	UNISEX RESTROOM	BUSINESS	50 SF	0	0' - 0 5/32"	C124	OPEN AREA	BUSINESS	81 SF	1	0' - 0 1/4"
A116	IDD CUBICLES	BUSINESS	392 SF	4	0' - 1 3/16"	C125	OFFICE	BUSINESS	168 SF	2	0' - 0 1/2"
A119	OFFICE SUPERVISOR	BUSINESS	172 SF	2	0' - 0 17/32"	C130	RESTROOM	BUSINESS	59 SF	1	0' - 0 3/16"
A120	OFFICE MANAGER	BUSINESS	293 SF	3	0' - 0 7/8"	0100		20011200	15005 SF	150	3' - 9"
A122	OFFICE INTAKE	BUSINESS	184 SF	2	0' - 0 9/16"	GENERAL IN	IFORMATION			100	0 0
A123	OFFICE INTAKE	BUSINESS	172 SF	2	0' - 0 17/32"		HARLINGEN, TX				
A125	TCCOOMMI	BUSINESS	293 SF	3	0' - 0 7/8"		: MILNET ARCHITECTRUAL SERVICES,	PLLC			
A125	TCCOOMMI SUPERVISOR	BUSINESS	172 SF	2	0' - 0 17/32"						
A128	UNISEX RESTROOM	BUSINESS	50 SF	0	0' - 0 5/32"		ENOVATION OF EXISTING ONE STORY E IMPROVEMENTS.	BUILDING			
A120	OFFICE CIS/IDD QA (2)	BUSINESS	172 SF	2	0' - 0 17/32"	APPLICABLE					
A123	UNISEX RESTROOM	BUSINESS	50 SF	0	0' - 0 5/32"	2012 - IBC					
A130	MAIL/COPY ROOM	BUSINESS	171 SF	2	0' - 0 1/2"	2012 - IFC 2012 - NFPA	101 50				
A131	OFFICE HR	BUSINESS	185 SF	2	0' - 0 9/16"	2014 - NEC					
A132	TCCOMMI	BUSINESS	293 SF	2	0' - 0 7/8"	2012 - TAS					
B100	HALLWAY	BUSINESS	407 SF	3	0' - 1 7/32"						
B100 B101	HALLWAY	BUSINESS	407 SF 405 SF	4	0' - 1 7/32"		Y CLASSIFICATION PE V B - UNPROTECTED, SPRINKLED	OCCUPA	NCY GROUP "	A"	
B101 B102	HALLWAY	BUSINESS	215 SF	4	0' - 0 21/32"					-	
B102 B103	HALLWAY	BUSINESS	215 SF 205 SF	2	0' - 0 5/8"	ALLOWABLE TOTAL ARE		<u>HAVE:</u> 1,418SF			
B103 B104			205 SF 216 SF	2		OCCUPANT	LOAD: 203				
B104 B105	HALLWAY RECEPTIONIST	BUSINESS	101 SF	<u>ک</u>	0' - 0 21/32" 0' - 0 5/16"		Y CLASSIFICATION				
	WAITING AREA					CONST. TYP	PE V B - UNPROTECTED, SPRINKLED	OCCUPA	NCY GROUP "	В"	
B106		BUSINESS	314 SF	3	0' - 0 15/16"	ALLOWABLE		HAVE:			
B107		BUSINESS	216 SF	2	0' - 0 21/32"	TOTAL ARE OCCUPANT		15,179SF			
B108		BUSINESS	59 SF		0' - 0 3/16"						
B109		BUSINESS	99 SF		0' - 0 9/32"		Y CLASSIFICATION PE V B - UNPROTECTED, SPRINKLED	OCCUPA	NCY GROUP "	R-4"	
B110	FINANCIAL STAFF	BUSINESS	254 SF	3	0' - 0 3/4"	ALLOWABLE	=	HAVE:			
B111	IDD RESPITE ROOM	BUSINESS	218 SF	2	0' - 0 21/32"	TOTAL ARE	A: 14,000SF	1,219SF			
B116	RESTROOM	BUSINESS	31 SF	0	0' - 0 3/32"	OCCUPANT	LOAD: 6				
B125	OFFICE SHARED(4)	BUSINESS	293 SF	3	0' - 0 7/8"		WABLE HEIGHT:				
B126	CLINIC	BUSINESS	465 SF	5	0' - 1 13/32"	ALLOWABLE ACTUAL STO	E STORIES: 1 (TABLE 503) ORIES: 1				
B127		BUSINESS	78 SF		0' - 0 1/4"	ALLOWABLE	E HEIGHT: 40 FT				
B128		BUSINESS	130 SF	1	0' - 0 3/8"	ACTUAL HE	IGHT: EXISTING NON-MODIFIED				
B129		BUSINESS	124 SF		0' - 0 3/8"	<u>TOTAL ACTU</u> 22,000 SF	JAL RENOVATION SQUARE FOOTAGE:				
B130		BUSINESS	157 SF	2	0' - 0 15/32"	GENERAL N	IOTES:				
B131		BUSINESS	54 SF		0' - 0 5/32"	SEPARATE	REVIEW, APPROVAL, AND PERMITS AR				
B132		BUSINESS	55 SF		0' - 0 5/32"		Y BUILDINGS AND STRUCTURES, SIGN AINING WALLS NOT SUPPORTING BUIL				
B133		BUSINESS	79 SF		0' - 0 1/4"		ITY FOR PROCEDURAL INFORMATION.		2		
B134	UNASSIGNED	BUSINESS	513 SF	5	0' - 1 17/32"	OVERALL PI	LAN SHEET IS INTENDED FOR CODE CO	OMPLIANCE SUCH A	S OVERALL		
B135	MIS	BUSINESS	122 SF	1	0' - 0 3/8"		Y, EGRESS INFORMATION, FIRE SEPAR			ON ONLY.	
B140	OPEN AREA	BUSINESS	241 SF	2	0' - 0 23/32"	A FIRE SYST	TEM APPROVED BY THE FIRE MARSHA	LL OR AHJ SHALL BE	PROVIDED.		
B143	RESTROOM	BUSINESS	70 SF	1	0' - 0 7/32"		ARM DEVICES SHALL BE USED IN ALL /			SHALL	
B145	GROUP COUNSELING ROOM		419 SF	4	0' - 1 1/4"		ED AND INSTALLED BY CONTRACTOR V				
B146	RESTROOM	BUSINESS	71 SF	1	0' - 0 7/32"		ANT LOAD SIGN SHALL BE POSTED IN A	NY ROOM WITH AN	OCCUPANTIC	DAD	
B147	HALLWAY	BUSINESS	21 SF	0	0' - 0 1/16"		HE SIGN IS REQUIRED TO BE POSTED A				
C100	HALLWAY	BUSINESS	783 SF	8	0' - 2 11/32"	PROVIDE PA	ANIC HARDWARE FOR GROUP "A" OCC	UPANCIES WITH AN	OCCUPANT		
C101	KITCHEN	BUSINESS	133 SF	1	0' - 0 13/32"	LOAD OF 50					
C102	PANTRY	BUSINESS	85 SF		0' - 0 1/4"						

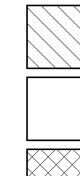
DULE - ASSEMBLY					
IPANCY	AREA	OCC. LOAD	EXIT WIDTH TOTAL		
ЛВLҮ	295 SF	42	1' - 0 21/32"		
ИBLY	270 SF	39	0' - 11 9/16"		
ИBLY	275 SF	39	0' - 11 13/16"		
ИBLY	577 SF	82	2' - 0 23/32"		
	1418 SF	203	5' - 0 3/4"		

юм	OFFICE SHARED(4) B125	TCCOMMI A134 UNISEX RESTROO	OFFICE INTAKE A123 STORAGE M A124 A121 A121 OFFICE INTAKE A122 A122	OFFICE MANAGER A120 AC 3/ELEC.	OFFICE SUPERVISOR A110 RESTROOM AC 4/5 A108	OFFICI SUPERVIS A106
HALL B1				HALLWAY A100		
2NEERI ROON B122	NCONFERENCE A ROOM B B123	AC 10/1 AI 33 OFFICE HR AI 32 AC 10/1 AI 30 AI 3	TCCOOMMI SUPERVISOR A126 TCCOOMMI	AC 8/9 A117 IDD CUBICLES A116	UNISEX RESTROOM ATTA IDD CUBICLES ATT3	
_ ₽ ₹	p					Þ

TORIZONTAL EXIT ENGLOSURES, AND IRE WALLS MUST BE PERMANENT MARKED ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS." LETTERS SHALL BE PAINTED RED. PROTECT ALL OPENINGS." LETTERS SHALL BE PROVIDE ONE LABEL PER STRUCTURAL BAY.



CODE PLAN LEGEND



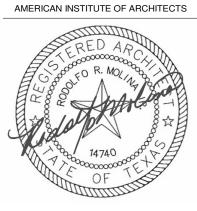


"R-4" OCCUPANCY

"A" OCCUPANCY

2HR RATED WALL

MILNET ARCHITECTURAL SERVICES



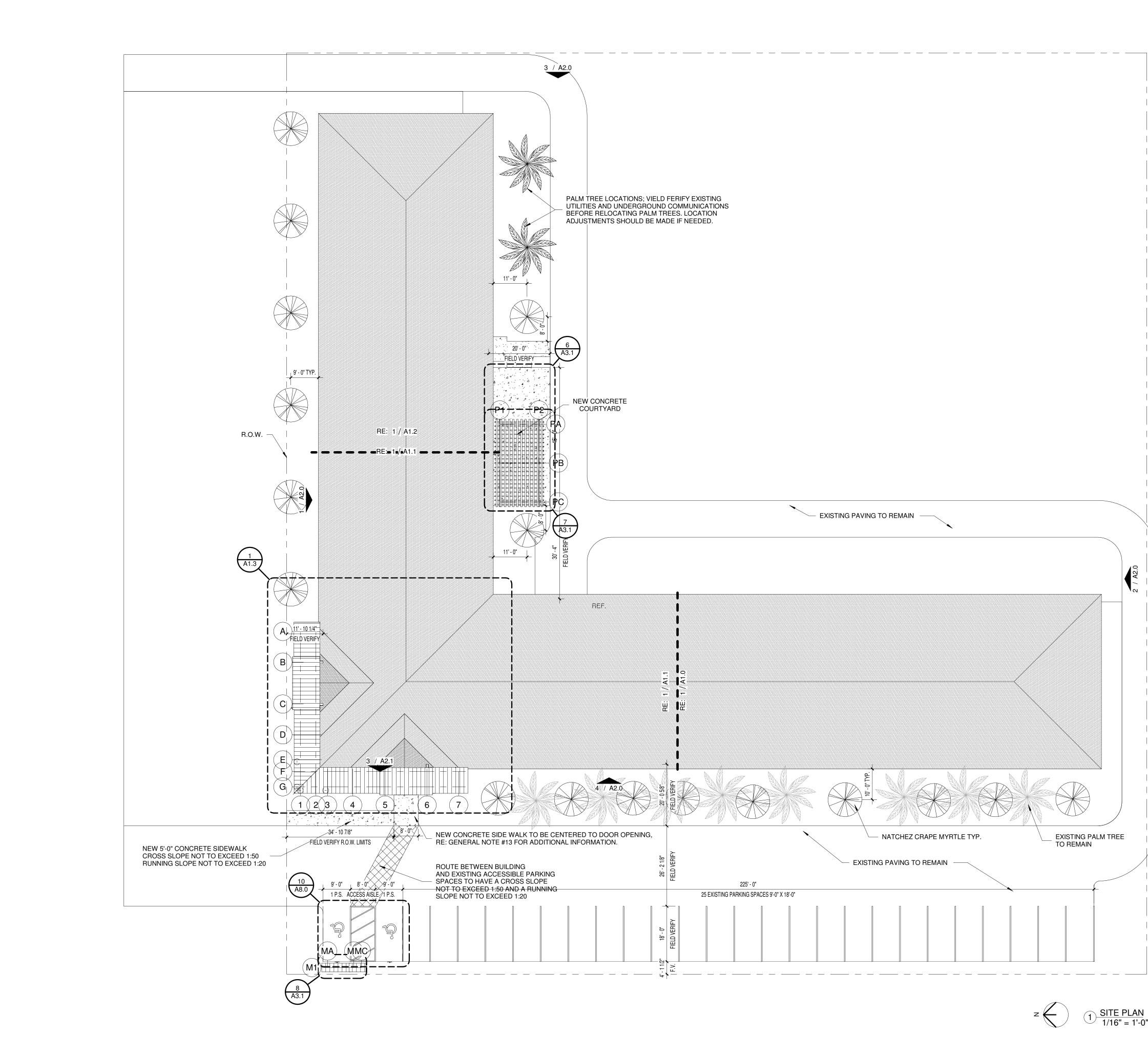


PROJECT NUMBER 217027

DATE AUGUST 20, 2018

ISSUE FOR SEALED PROPOSALS





GENERAL NOTES:

1. OWNER WILL PROVIDE SOIL TESTS PRIOR TO FOUNDATION WORKS.

2. PROVIDE SIDEWALK AS PART OF BASE BID. 3. RE: CIVIL FOR UTILITY CONNECTIONS

(U.R. WATER & SEWER.)

4. WARNING:

CONTACT 1-800-DIG-TEST FOR UNDERGROUND ELECTRICAL CABLES IN SITE.

5. ALL CONSTRUCTION AND MATERIALS FOR DRAINAGE, GRADING AND PAVING TO BE IN ACCORD WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".

6. ALL SOIL PLACED ONTO SITE IS TO BE COMPACTED TO 80% DENSITY, EXCEPT UNDER ANY PAVING COMPACTION IS TO BE 95%, BY OWNER. RE: CIVIL FOR ADDT. INFO.

7. CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION. 8. CONTRACTOR IS RESPONSIBLE FOR PAYING ANY FEES FOR PERMITS AS MAY BE REQUIRED FOR THIS CONSTRUCTION.

9. ALL PIPE SLEEVES SHALL BE SCH. 40 PVC AND FURNISHED IN PLACE BY THE CONTRACTOR BEFORE PAVING.

TUELECTRIC SLEEVES:

6" SLEEVES ARE TO BE DOVE GREY AND PLACED 48" BELOW TOP OF CURB ELEVATIONS. WITH END CONDUIT MARKERS FURNISHED BY TUELECTRIC PLACED ON EACH END OF CONDUIT. **IRRIGATION SLEEVES:**

2" & 4" SLEEVES ARE TO BE PLACED 24" BELOW TOP OF CURB.

10. CONTRACTOR TO SET CONTROL GRADES AT 25' INTERVALS ALONG ALL PAVING FLOW LINES. 11. CONTRACTOR TO PROVIDE JOB SIGN. RE: 4/A9.0

12. PROVIDE AND INSTALL PRE-ENGINEERED METAL CANOPY OVER NEW CONC SIDEWALKS. RE: 1/A3.1, RE: STRUCTURAL FOR ADDITIONAL INFORMATION

13. ALL SIDEWALKS AND COVERED WALKWAYS SHALL HAVE 1:50 MAXIMUM CROSS SLOPE. SIDEWALKS OR COVERED WALKWAYS THAT MUST HAVE SLOPES GREATER THAN 1:20 SHALL HAVE HANDRAILS ON BOTH SIDES WITH 4" HIGH CONC. CURBS ON BOTH SIDES. HANDRAILS SHALL BE 34" TO TOP A.F.F. THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION ALONG ACCESSIBLE ROUTES AT SIDEWALKS AND COVERED WALKWAYS.

14. CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM WITH 1:10 FLARED SIDES AND SHALL BE TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. PARALLEL CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM & TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. ALL CURB RAMPS SHALL HAVE A LANDING AT TOP & BOTTOM. LANDINGS SHALL HAVE A 1:50 MAXIMUM SLOPE IN ANY DIRECTION.

15. STRIPED ACCESS AISLES AND ACCESSIBLE PARKING SHALL HAVE A MAXIMUM CROSS SLOPE IN ALL DIRECTIONS OF 1:50.

16. ALL GRADING SHALL BE DONE TO DRAIN WATER AWAY FROM BUILDINGS.

17. ALL EXTERIOR ALCOVES SHALL HAVE A 1:50 MAXIMUM SLOPE AND SHALL HAVE NO DROPS AT DOORS NOR AT CONNECTING SIDEWALKS.

18. REFER TO CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARCHITECT IN CASE OF DISCREPANCIES AND COORDINATING WITH CIVIL ENGINEER PRIOR TO PROCEEDING. 19. PROVIDE 2' X 4' CONCRETE SPLASH BLOCK AT

DOWNSPOUT LOCATIONS.

20. ALL EXTERIOR DOORS SHALL HAVE A LEVEL AREA WITH A 1:50 MAXIMUM SLOPE IN ALL DIRECTIONS. THE AREA SHALL BE A MINIMUM OF 5 FT. IN THE DIRECTION OF TRAVEL BY THE WIDTH OF THE SIDEWALK.

21. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BE REMOVED CAREFULLY SO AS NOT TO DAMAGE ANY EXISTING CONSTRUCTION THAT IS TO REMAIN. PAVING, LANDSCAPING, ETC THAT IS DAMAGED BY CONTRACTOR IS TO BE REPAIRED TO MATCH EXISTING CONDITIONS BEFORE DAMAGE AT NO ADDITIONAL COST TO OWNER

LANDSCAPING GENERAL NOTES



NATCHEZ CRAPE MYRTLE



ARCHITECTURAL SERVICES





PROJECT NUMBER 217027

DATE AUGUST 20, 2018

ISSUE FOR SEALED PROPOSALS

SHEET NUMBER

AS1

GENERAL NOTES

THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE. WORKMEN. AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL NCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING. PLANKING SAFETY NETS. SUPPORT AND BRACING FOR CRANES. POLES. ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW ITEMS.

2. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS.

3. THE CONTRACTOR SHALL Verify ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING. ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

4. IN CASE OF CONFLICT; NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS

5. WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION

6. EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS INDICATED.

7. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS, THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION

THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION.

9. NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

10. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER.

11. ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT

12. THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS.

13. ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER.

14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROJECT ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR TO BEGINNING ANY WORK.

15. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

DESIGN CRITERIA

DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMPERS ARE RASED LIDON THE FOLLOWING OD!

MEMBE CODE:	RS ARE BASED UPON THE FOLLOWING CRITERIA:	IBC	2015
	L LOADS	120	2010
	WIND SPEED (V ³ s):	140	MPH
	EXPOSURE CATEGORY:	140 C	
D. C.		1.0	
D.		1.0	
E.		A	
F.		D	
G.		D	
0.	Ss	0.056 g	
	S1	0.030 g 0.014 g	
	Fa	2.5	
	Fv	3.5	
	Sms	0.140 g	
	Sm1	0.050 g	
	Sds	0.093 g	
	Sd1	0.033 g	
VEDTIC	AL LOADS	0.000 g	
_	OF:		
	COLLATERAL LOAD:	15	PSF
А. В.		ACTUAL WEIGHT	-
	LIVE LOAD: (REDUCIBLE)		PSF
D.		SEE TABLE	
E.			PSF
F.		NONE	FOI
G.		SEE PLANS	
-	DOR:	011 1 1 1 1 1 1	
	DEAD LOAD:	50	DOF
			PSF
			PSF PSF
	LIVE LOAD, LIGHT STORAGE LIVE LOAD, HEAVY STORAGE:		PSF
Б. Е.			PSF
	LIVE LOAD, CORRIDOR:		PSF
	MECHANICAL UNITS	SEE PLANS	FSF
_		011 1 1 1 1 1 1	
	RFACE INFORMATION		
Α.	PREPARED BY:	n/a	
	PROJECT NO.: DATE:	n/a n/a	
В.		11/a	
D.	MINIMUM FOOTING DEPTH:	24	INCHES
	MINIMUM FOOTING WIDTH:		INCHES
	ALLOWABLE BEARING PRESSURE (CONTINUOUS FOOTI		PSF
	ALLOWABLE BEARING PRESSURE (ISOLATED FOOTINGS		PSF
	WIRE REINFORCEMENT INSTITUTE (WRI) CRITERIA	5). 1000	1.01
	CLIMATIC RATING (Cw)	15	
	EFFECTIVE PLASTICITY INDEX (UNDISTURBED, NATIVE S		
	EFFECTIVE PLASTICITY INDEX (SITE IMPROVED SOIL)	21	
	PVR (UNDISTURBED SOIL)		INCH
	PVR (WITH SITE IMPROVEMENT)		INCH
		1.0	

ALLOWANCE

1. IN ADDITION TO THE MATERIAL SHOWN, THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL. FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINEER FIELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST, LABOR COSTS AND PLACEMENT AT THE SITE.

. REMAINING BALANCE AT THE END OF THE PROJECT SHALL BE RETURNED/CREDITED BACK TO THE OWNER. 3. THE ALLOWANCE SHALL APPEAR ON THE SCHEDULE OF VALUE AS A LINE ITEM. MATERIAL ALLOWANCE

CONCRETE REINFORCING STEEL STRUCTURAL STEEL	3000 5000	CU. YD. LBS LBS	
CMU CONCRETE SPALL REPAIR (x 6" DEEP)	1000	SQ. FT. SQ. FT.	

SHOP DRAWINGS AND SUBMITTALS

- SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ADDITIONAL INFORMATION 2. SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY
- LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN NO REPRODUCTIONS OF THE CONTRACT DRAWING PLANS OR DETAILS. SUBMIT STRUCTURAL SHOP DRAWINGS IN PDF FORMAT. SHOP DRAWINGS SHALL NOT SHOW MATERIALS FOR MORE THAN ONE LEVEL OF THE
- SAME PLAN 5. SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATIO (DETAIL SHEETS AND/OR MATERIAL LISTS) AND INSTALLATION.
- ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS. CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUB-CONTRACTOR
- AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADING. CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTOR BEFORE SUBMITTING TO ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL
- CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW. 9. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE NUMBER 3 UNDER GENERAL NOTES.
- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEF THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS.
- 11. IF THERE IS ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS, THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS GOVERN. INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.
- PROVIDE SUBMITTALS FOR THE FOLLOWING ITEMS: ITEM
- A. CONCRETE MIX DESIGN
- **B. CURING COMPOUND FOR CONCRETE** C. REINFORCING STEEL
- D. STRUCTURAL STEEL
- E. STEEL JOIST F. METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK OPENINGS,
- SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.) G. PRE-MANUFACTURED METAL BUILDING (INCLUDE CALC'S & REACTIONS)
- H. PRE-MANUFACTURED WOOD TRUSSES

REINFORCING STEEL

- 1. BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1. GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER 2. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE
- AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED. VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR
- DIAMETERS NOR FOUR (4) FEET ON CENTER. 4. WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185 LAPS OF WELDED STEEL WIRE FABRIC AT SPLICES SHALL BE NOT LESS THAN 12 INCHES. 6. WALLS, PILASTER, COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH
- REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS. PILASTER. OR COLUMNS BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF
- STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). REINFORCING STEEL DETAILING. BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATES FDITION
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT. PROVIDE CONCRETE OR MASONRY CHAIRS AT 4'-0" O.C. MAX. (PLASTIC CHAIRS NO ALLOWED.
- 10. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS. 11. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES.
- 12. EXTEND SLAB REINFORCING STEEL. PERPENDICULAR TO BEAM. TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLE TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER
- 13. PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". TH "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS. 14 ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB.
- WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT B PERMITTED 16. WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL B PERFORMED IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE REINFORCING
- STEEL" ON THE AMERICAN WELDING SOCIETY, AWS D1.4-96 AS INCORPORATED IN CBC CHAPTER No. 19. AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN F70XX FLECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON FOUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FORM THE CHEMICAL COMPOSITION AS SHOWN IN THE MILI TEST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL E
- MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER CBC CHAPTER 19, A COPY OF THE MILL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL FIFLD WFLDING) 17. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE
- FABRICATION AND INSTALLATION. 18. _CONCRETE COVER FOR REINFORCING AS FOLLOWS: MINIMUM TOLERANCE

	COVER	
DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL		
MEMBERS IN WHICH CONCRETE IS DEPOSITED AGAINST GROUND:	3"	
WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS,		
ARE EXPOSED TO WEATHER OR GROUND:		
FOR BARS 5/8" IN DIAMETER	2"	
FOR BARS 5/8" OR LESS IN DIAMETER	1 1/2"	
WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER		
OR GROUND:		
FOR SLAB ON GRADE (FROM TOP OF SLAB)	1 1/2"	
FOR BEAMS, COLUMNS	1 1/2"	
FOR JOISTS AND SLABS	1"	

20. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: MASONRY - GRADE 60: LAP 50 DIA. (30" MIN.

GRADE 40: LAP 48 DIA. (24" MIN.)

CONCRETE	- LAP PER SCH	IEDULE BELOW		
	BAR SPLICE	LAP LENGTH IN	CONCRETE	
BAR	f'c =	f'c =	f'c =	f'c =
SIZE	2000 PSI	3000 PSI	4000 PSI	5000 PSI
#3	22	22	22	22
#4	29	29	29	29
#5	40	36	36	36
#6	57	46	43	43
#7	77	63	54	54
#8	100	82	71	71
#9	128	104	90	90
#10	162	132	115	115
#11	200	163	141	141
FOR WELDED V	VIRE FABRIC: S	PACING OF WIR	E PLUS 12".	

SPECIAL NOTES TO OWNER

UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED.

2. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS. IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS.

3. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED. REFER TO THE NOTES UNDER "ALLOWANCES".

4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION. BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST.

STRUCTURAL STEEL

REQUI

1. MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE AISC

	1.	MATERIAL AND WORKMANSHIP SHALL CONFORM TO T SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND		
N	0	STEEL FOR BUILDINGS.		
	2.	STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLO		
			DESIGNATION	STRENGTH
		ANCHOR BOLTS	A36	Fy=36 ksi
		PLATES ANGLES	A36	Fy=36 ksi
		CHANNELS	A36	Fy=36 ksi
ON		WIDE FLANGE SHAPES	A36	Fy=36 ksi
UN		STEEL PIPE		Fy=50 ksi
			A53 GRADE B	Fy=35 ksi
		SQUARE & RECT. STEEL TUBES (HSS)	A500 GRADE B	Fy=46 ksi
R		ROUND TUBES (HSS)	500 GRADE B	Fy=42 ksi
	3.	ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERE		
		ACCORDANCE WITH THE SPECIFICATIONS FOR THE D		
		ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS		
		CODE OF STANDARD PRACTICE, LATEST EDITION AS A		ICAN
		INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS F		
		SECTION 4.2.1, DELETE FIRST TWO SENTENCES.		
		SECTION 7., ALL REFERENCE TO OWNER SHALL I		
		SECTION 7.9.3, THE CONTRACTOR SHALL PROVID		
		PLACEMENT OF NON-SELF SUPF		
		SECTION 7.9.4, THE CONTRACTOR TO DESIGN SH	,	
	4.	WELDING SHALL BE DONE IN ACCORDANCE WITH THE		
		GAS WELDING IN BUILDING CONSTRUCTION AS PUBLIS SOCIETY, EXCEPT THAT ALL WELDING SHALL BE DON		
		ALL WELDING SHALL BE PERFORMED BY CERTIFIED W	ELDERS AND SHALL CC	INFORM
	_	TO ANSI/AWS D1.1-04		
	5.	DETAILED AND OR SCHEDULED CONNECTIONS HAVE I ENGINEER. ANY CONNECTION NOT DETAILED OR SCH		
RED		FABRICATION PURPOSES SHALL BE SIZED AND DETAIL		
		BE MARKED FOR ENGINEER'S VERIFICATION. FABRIC/		
		CONNECTIONS SHALL SUPPORT ONE HALF THE TOTA		
		SHOWN IN THE TABLES OF UNIFORM CONSTANTS, PA		
		STEEL CONSTRUCTION FOR THE GIVEN BEAM, SPAN		
		THE EFFECT OF ANY CONCENTRATION LOADS MUST E		
	6.	SEE ARCHITECTURAL PLANS FOR MISCELLANEOUS S		
	0.	STRUCTURAL DRAWINGS. STEEL ITEMS SHOWN ON A		
		NOT SPECIFIED ON THE STRUCTURAL DRAWINGS SHA		
		FABRICATOR. SEE DESIGN CRITERIA FOR LOADING.		JILLL
	7.	ALL WELDED CONNECTIONS SHALL BE MADE USING 1		
	8.	ALL BOLTED CONNECTIONS SHALL BE MADE USING 3/	,	
	0.	BOLTS, ASTM A325, BEARING TYPE CONNECTION w/ W		
		DESIGN DRAWINGS. SPECIAL INSPECTION REQUIRED		
		ALL NUTS SHALL BE PER ASTM A563		TH DOLING.
	9.	ALL CONNECTION PLATES AND STIFFENERS SHALL BE	MADE WITH 1/4" THICK	PLATES
	5.	UNLESS OTHERWISE NOTED ON PLANS.		T LATEO,
	10.	ALL STEEL (INCLUDING BOLTS) EXPOSED TO THE WEA	ATHER SHALL BE HOT D	IPPED
	10.	GALVANIZED. (INCLUDES STEEL THAT IS ONLY COVER		
		ARCHITECTURAL PLANS IF STRICTER REQUIREMENTS		
	11.	ALL EXPOSED STEEL SHALL FOLLOW SECTION 10 OF		D PRACTICE
5		OF AISC. SECTION 10 OF THE CODE ADDRESSES ARCH		
		STEEL (AESS)		
	12.	CONNECTIONS SHALL BE PER HOLLOW STRUCTURAL	SECTIONS, CONNECTIO	N MANUAL BY AISC
	13.	WHERE STEEL MEMBER PASS THROUGH CMU WALLS		
		THE CMU AND THE STEEL MEMBER. PROVIDE ELASTO	OMERIC MATERIAL BETV	VEEN THE
		THE STEEL MEMBER AND CMU WALL.		
L	14.	ALL BEAMS NOT SHOWN SHALL BE W14x26. ALL COLU	JMNS NOT SHOWN SHAI	_L BE
		HSS4x4x1/4.		
	15.	STEEL SHOP SHALL BE AISC CERTIFIED		
	16.	HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE	DRILLED OR PUNCHED.	BURNING
		OF HOLES SHALL NOT BE PERMITTED. UNLESS NOTED	O OTHERWISE, HOLES S	HALL BE
ST		STANDARD SIZE 1/16 INCH LARGER THAN THE BOLT.		
	17.	ALL STRUCTURAL STEEL SHAPES SHALL BE PRIMED V	VITH A RUST RESISTAN	T PRIMER
R		BEFORE SHIPMENT TO THE PROJECT SITE. PRIMER SI	HALL NOT BE APPLIED T	O THE
ТС		IMMEDIATE AREA OF STEEL INTENDED TO RECEIVE SI	LIP CRITICAL BOLTED CO	ONNECTIONS
	18.	HIGH STRENGTH BOLTS INSTALLATION SHALL BE CON		
		SPECIAL INSPECTOR. FOLLOWING ARE REQUIREMENT		PECTOR:
		A. HE SHALL VERIFY THE MILL CERTIFICATES FOR		
		B. HE SHALL VERIFY THAT THE MATERIAL USED A	ARE PROPERLY STORED	AND
		PREPARED FOR USE.		
EL		C. HE SHALL VERIFY THAT CONSTRUCTION DETA		
		WORKMANSHIP ARE IN ACCORDANCE WITH TH	IE CONSTRUCTION DOC	UMENTS AND
ΗE		AND BUILDING CODE.		
		D. FOR SNUG-TIGHT CONNECTIONS, HE SHALL VE		
		CONNECTED ELEMENTS HAVE BEEN BROUGHT	I INTO SNUG CONTACT	WITH EACH
		OTHER.		
		E. FOR SLIP-TIGHT CONNECTIONS, HE SHALL VEF		
		SELECTED BY THE CONTRACTOR HAS INDUCE	U THE REQUIRED MININ	UM TENSION
BE		IN THE BOLT.		
00		F. A CERTIFICATE OF INSPECTION SHALL BE FUR		
		TO THE BUILDING OFFICIAL PRIOR TO HIS INSP	COTION AND TO THE AF	KUTI I EU I
D	40	AND ENGINEER.		
	19.	WELDING IN THE FIELD SHALL BE CONTINUOUSLY INS		INSPECIOR
		FOLLOWING ARE REQUIREMENTS OF THE SPECIAL IN		
		A. HE SHALL VERIFY THAT THE MATERIAL USED A	ARE PROPERLY STORED	
-		PREPARED FOR USE.	010	
BE		B. HE SHALL VERIFY THE WELDER'S QUALIFICATI		
		C. HE SHALL VERIFY THAT CONSTRUCTION DETA	-,	
ı		ARE IN ACCORDANCE WITH THE CONSTRUCTION		
L		D. A CERTIFICATE OF INSPECTION SHALL BE FUR		
Ξ		TO THE BUILDING OFFICIAL PRIOR TO HIS INSP	ECTION AND TO THE AF	RCHITECT
_		AND ENGINEER.		
=	20.	ALL NON SHRINK GROUT FOR LEVELING OF BASE PLA		-
-		5000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GRO	UT SHALL COMPLY WIT	H CORPS
7		OF ENGINEERS SPECIFICATION CRD-C 621.		
·				

Drawing List				
Sheet Number	Sheet Name			
S101	General Notes			
S102	General Notes			
S201	Foundation Plan			
S301	Low Framing Plan			
S302	Framing Plan			
S401	Typical Concrete Details			
S402	Foundation Details			
S501	Sections			
S502	Sections			

Sections

3/8"

1/4"

1/4"

1/4"

1/4"

1/8"

CAST-IN-PLACE CONCRETE

- VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE SPECIFICATIONS, ACI #301 LATEST EDITION. DRILLED PIERS SHALL
- COMPLY WITH ACI 336.1 AND ACI 336.3R, LATEST EDITIONS
- ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, ACCESSORIES UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315 LATEST EDITION THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS:
- STRENGTH MAXIMUM SIZE OF LARGE WATER/CEMENT LOCATION AT 28 DAYS SLUMP AGGREGATE RATIO FOUNDATIONS 3000 PS 1 1/2" 0.53 3000 PSI 1 1/2" 0.53 SLAB ON GRADE
- 0.53 GRADE BEAMS 3000 PSI 1 1/2' 3000 PSI 0.53 3/4" NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS.
- VERTICAL CONSTRUCTION JOINTS IN SLABS ARE TO BE AS SHOWN ON PLANS OR AS APPROVED BY ENGINEER. ALL OPENINGS IN SLAB (FOR PIPING, DRAINS, ETC.) SHALL BE SEALED WITH 1/2
- SEALANT '2A' (SELF-LEVELING 2-PART POLYURETHANE).
- UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHOULD BE DESIGNED WITH EITHER SOME DEGREE OF FLEXIBILITY OR WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THESE LINE SHOULD VERTICAL MOVEMENT OCCUR BACKFILL AROUND PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB.
- FLOOR TOLERANCES F-NUMBER SYSTEM COMPOSITE MINIMUM LOCAL VALUE FLATNESS (F

LEVELNESS (F)	25	19
IN ALL INSTANCES MINIMUM SLAB T	HICKNESS SHALL BE OBT	AINED. COORDINATE SLAB
FINISHES WITH ARCHITECTURAL PL	ANS.	

- ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR 11. TO PLACING CONCRETE REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS. GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS,
- ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE, FOOTINGS, OR SLAB UNLESS SPECIFICALLY DETAILED IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.
- CONCRETE TESTING SHALL BE ONE SET OF CYLINDERS FOR EVERY 50 CUBIC YARDS 14. OR PORTION THEREOF FOR EACH TYPE OF CONCRETE POURED ON ANY GIVEN DAY. ONE SET CONSISTS OF 2 CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS. 15. VAPOR RETARDANT
- A. VAPOR RETARDANT (UNDER SLAB): SHALL CONFORM TO ASTM E1745, CLASS C OR BETTER AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.044 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. VAPOR RETARDANT SHALL BE NO LESS THAN 15 MILS THICK.
- APPROVED PRODUCTS A. STEGO WRAP (15 MIL). BY STEGO INDUSTIES LLC. (887) 464-7834.
- B. HUSKY YELLOW GUARD (15 MIL) C. OR APPROVED EQUAL BEFORE BIDDING PER SECTION 01600
- INSTALLATION
- A. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS TWELVE (12) INCHES AND SEAL WITH TAPE AS SPECIFIED BY VAPOR RETARDANT MANUFACTURER. TURN BARRIER UP SIX 6 INCHES AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC. TAPE AND SEAL AT PENETRATIONS AND AT EDGES. B. AT GRADE BEAMS, EXTEND VAPOR RETARDANT DOWN SIDES OF BEAM TRENCHES
- AND ALONG BOTTOM OF FOOTING EXCAVATIONS, SECURE TO SIDES OF TRENCH. PATCHING
- A. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND TAPE AROUND ENTIRE PERIMETER OF REPAIR.
- A. PREINSTALLATION CONFERENCE:
- AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE SLAB CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
- 2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - A) CONTRACTOR'S SUPERINTENDENT B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY
 - CONTROL
 - CONCRETE PRODUCE D) CONCRETE SUBCONTRACTOR
 - E) ADMIXTURE MANUFACTURER(S)
 - F) LIQUID DENSIFIER AND SEALER MANUFACTURER G) LIQUID DENSIFIER AND SEALER APPLICATION
 - H) JOINT FILLING APPLICATOR
- 3. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED BY HIM TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.
- CONCRETE SUBCONTRACTOR QUALIFICATION: THE CONCRETE SUBCONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE CONTRACTOR, SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE FLOOR SLAB TOLERANCES SPECIFIED IN THIS SECTION. THE CONCRETE SUBCONTRACTOR'S TEAM SHALL HAVE PARTICIPATED IN THE MAJORITY OF THESE PROJECTS, AND THAT TEAM SHALL REMAIN THE SAME THROUGH THE DURATION OF THIS PROJECT. THE CONCRETE PLANT SHALL BE LOCATED WITHIN 50 MILES OF
- CEMENT: TEXAS LEHIGH ASTM C 150, TYPE I. USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT; OR APPROVED EQUAL BEFORE BIDDING PER SECTION 01600. 2. COARSE AND FINE AGGREGATES: ASTM C33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% - 18% FOR LARGE TOP AGGREGATES (1 1/2") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES (1" OR 3/4") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND
- SIZE OF 1-1/2" FOOTINGS AND PIERS 1" AND BEAMS 3/4". WATER: COMPLYING WITH ASTM C 94.
- SPECIFICATIONS, IN ACCORDANCE WITH ASTM C494.
- AIR-ENTRAINING ADMIXTURES: SHALL CONFORM TO ASTM C-260. ADMIXTURE MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE AIR-ENTRAINING ADMIXTURE IS COMPATIBLE WITH OTHER REQUIRED ADMIXTURES. ALL EXTERIOR SLABS SHALL BE AIR-ENTRAINED (4% - 6%). ACCEPTABLE PRODUCTS: EUCLID CHEMICAL AEA-92 AND AIRMIX 200, MASTER BUILDERS MICROAIR, W.R. GRACE
- NOTE: AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED ON INTERIOR CONCRETE. 2. WATER-REDUCING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL WR-89 AND WR-91, MASTER BUILDERS 200N AND 322N, W.R. GRACE WRDA 36 AND WRDA 64
- 3. WATER REDUCING, RETARDING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RETARDER 75, MASTER BUILDERS POZZOLITH R, W.R. GRACE DARATARD 17
- 4. HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS : EUCLID CHEMICAL EUCON 37, MASTER BUILDERS REOBUILD 1000 W.R. GRACE DARACEM - 1000.
- 5. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE C OR E, AND CONTAIN NOT MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL ACCELGUARD 80/90 AND ACCELGUARD NCA, MASTER BUILDERS NC534 AND POZZUTEC 20, W.R. GRACE POLARSET.
- 6. PROHIBITED ADMIXTURES: a.) CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE
- IONS ARE NOT PERMITTED. b.) FLYASH; A MAXIMUM OF 20% AS CEMENT REPLACEMENT ALLOWED

- THE PROJECT SITE AND BE A CONTINUOUS OPERATING PLANT. CONCRETE MATERIAL:
- ABOVE THE NO. 100 SIEVE. SLABS ON GRADE SHALL HAVE A MAXIMUM AGGREGATE
- ALL CONCRETE SHALL CONTAIN "POZZOLITH" ADMIX AS PER MANUFACTURER'S
- ADMIXTURES
- - DARAVAIR 1000 AND DAREX-11.

EVAPORATION RETARDER

WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE. a.) ACCEPTABLE PRODUCTS:

"EUCOBAR" BY THE EUCLID CHEMICAL COMPANY - CONTACT: PHIL BRANDT (877) 438-3826

CURING MATERIALS

EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C 1315 WITH A MAXIMUM V.O.C. CONTENT OF 700 G/L.

a.) ACCEPTABLE PRODUCTS: "SUPER REZ SEAL" BY EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826

INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND THAT IS FORMULATED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C-309 AND V.O.C. CONTENTS IN ACCORDANCE TO EPA 40 CFR. PART 59. TABLE I. SUBPART D FOR CONCRETE CURING COMPOUNDS WITH A MAXIMUM V.O.C. CONTENT OF 350 G/L. APPLY AT 400 S.F./GALLON.

a.) ACCEPTABLE PRODUCTS:

"KUREZ DR VOX" BY THE EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826

ALL CONCRETE SLABS SHALL ALSO BE MAINTAINED MOIST FOR 7 DAYS

CONCRETE MIXES

COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXTURE, U.N.O. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA AS FOLLOWS: CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. THE LABORATORY MIX DESIGN SHALL NOT EXCEED THE DESIRED JOB STRENGTH OF CONCRETE BY 1,200 PSI. FOUR COPIES OF THE MIX DESIGN SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK BEGINS

SLUMP: CONCRETE CONTAINING HRWR SHALL HAVE A MAXIMUM SLUMP OF 8" (200MM). ALL OTHER CONCRETE SHALL NOT EXCEED 4 INCHES (100 MM) UNLESS OTHERWISE INDICATED ON THE DRAWINGS

ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY OWNER. LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY OWNER BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE WHICH WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR SLAB INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTEMPLATED FOR ANY SPECIAL LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT THE CAPABILITIES OF THE PUMPING EQUIPMENT.

- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. WHEN AIR TEMPERATURE IS BETWEEN 85° AND 90° F, REDUCE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90° F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
- 6. WATER CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL. H. CONTRACTION JOINTS IN SLABS-ON-GRADE:
- FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS:
- SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR. NOTE: CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY. IF CHALK LINES ARE USED FOR SAW CUTS, ALL CHALK REMAINING ON SLAB SHALL BE REMOVED COMPLETELY AND IMMEDIATELY AFTER SAWING.

FLOOR SLAB TOLERANCES:

COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS." ALL INTERIOR FLOOR SLABS SHALL MEET THE REQUIREMENTS OF A TYPE 5, SINGLE COURSE, HARD STEEL - TROWELED FINISH AS DESCRIBED IN ACI 302.IR- LATEST EDITION.

J. CONCRETE CURING AND PROTECTION:

FIRST. ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WAI KING WORKMAN, ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIE BY THE MANUFACTURER AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.

SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT I FAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT. INTERIOR SLABS - CURING: a) FIRST, ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED

b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND PONDED WITH

THIRD, CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. INTERIOR SLAB PROTECTION:

TAKE THE FOLLOWING MEASURES TO PROTECT FLOOR SLAB:

WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.

WATER FOR SEVEN (7) DAYS AFTER CONCRETE PLACEMENT.

- A. WRAP OR "DIAPER" ALL MOTORIZED AND HYDRAULIC EQUIPMENT TO PREVENT FLUID LEAKS.
- B. PROVIDE NON-MARKING TIRES ON RUBBER TIRED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC. C. SOURCE FOR DIAPERS AND BOOTS: R&R TIRE SURFACE PROTECTORS, INC., FORT
- COLLINS CO 80526, (970) 266-4082 D. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
- E. COVER SLAB PRIOR TO PAINTING. ALL SPILLS TO BE CLEANED WITH SOAP AND WATER. LACQUER THINNER WILL NOT BE ACCEPTABLE.

STRUCTURAL OBSERVATIONS

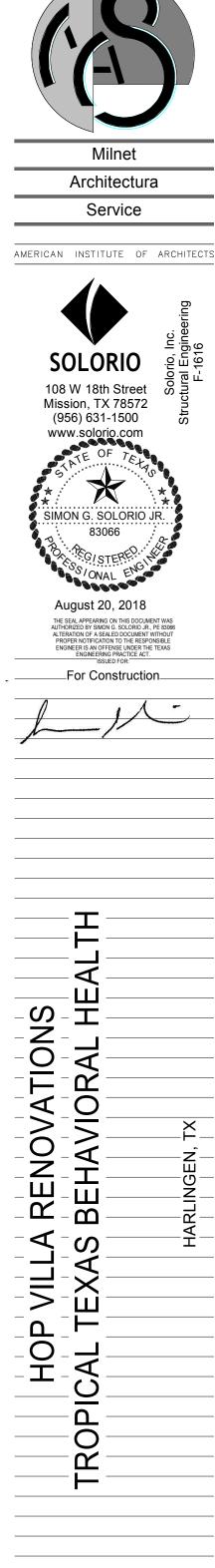
ROOFING MATERIAL.

JOB SITE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS, EQUIPMENT OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE INTENT.

SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUED TO RELIEVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITIES UNDER THE CONSTRUCTION CONTRACT.

SPECIFICALLY BUT WITHOUT LIMITATION. OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ASSUME RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTION, NOR FOR SAFETY ON THE JOB SITE, NOR FOR ITEMS NOT INSTALLED OR IMPROPERLY INSTALLED BY THE CONTRACTOR OR HIS SUBCONTRACTORS.

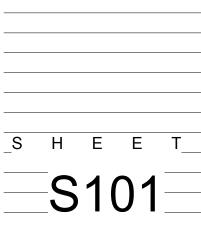
4.	NOTIFY ENGINEER 48 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVA	TION IS REQ	UIRED.
	CONSTRUCTION STAGE	REQUIRED	
	BEFORE PLACEMENT OF CONCRETE FOR SLAB/FOUNDATION	Х	
	BEFORE PLACEMENT OF FOUR (4) FEET OF CONCRETE IN CMU WALL		
	AFTER FRAMING OF ROOF STRUCTURE BUT BEFORE PLACEMENT OF	Х	



PROJECT NUMBER 18166

August 20, 2018

DATE



SPECIAL INSPECTION, MATERIALS TESTING.

RESPONSIBILITIES OF THE OWNER A. EMPLOY AND PAY THE SPECIAL INSPECTION AGENCY TO PERFORM INSPECTIONS SPECIFIED A. REINFORCED CONCRETE IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION. B. EMPLOY AND PAY THE MATERIALS TESTING LABORATORY TO PERFORM TESTS SPECIFIED IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION. 1) RETESTING - THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR RE-TESTING WHERE RESULTS OF INSPECTIONS AND TESTS PROVE UNSATISFACTORY AND INDICATE NONCOMPLIANCE WITH REQUIREMENTS. . EMPLOY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE (DPR) TO PERFORM STRUCTURAL OBSERVATION. (REF 1702) DEFINITIONS A APPROVED FABRICATOR: A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD, TO PERFORM WORK, OFF SITE, REQUIRING SPECIAL INSPECTION WITHOUT SPECIAL INSPECTION. THE DESCRIPTION IN SECTION 1701.1 OF THE 1998 CALIFORNIA BUILDING CODE IS APPLICABLE. . SPECIAL INSPECTION AGENCY: THE ACCREDITED INSPECTION BODIES DESIGNATED HEREIN AND APPROVED BY THE ENGINEER OF RECORD TO PERFORM SPECIAL INSPECTION AS REQUIRED BY THE BUILDING CODE AND THE PROJECT SPECIFICATIONS AND AS DESCRIBED IN SECTION 1701 1998 CALIFORNIA BUILDING CODE SPECIAL INSPECTOR: A QUALIFIED PERSON, EMPLOYED BY THE SPECIFIED SPECIAL INSPECTION AGENCY, WHO HAS DEMONSTRATED COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. DUTIES INCLUDE VISUAL OBSERVATIONS AND FIELD MEASUREMENTS OF MATERIALS, OBTAINING SPECIMENS FOR TESTS AND RELATED ACTIONS INCLUDING PREPARATION OF REPORTS. D. TESTING LABORATORY: AN ACCREDITED MATERIALS TESTING LABORATORY, APPROVED BY THE ENGINEER OF RECORD, TO MEASURE, EXAMINE, TEST, CALIBRATE OR OTHERWISE DETERMINE THE CHARACTERISTICS OR PERFORMANCE OF CONSTRUCTION MATERIALS E. CONTINUOUS INSPECTION: ON SITE INSPECTION BY THE SPECIAL INSPECTOR ON A CONTINUOUS BASIS OBSERVING ALL WORK REQUIRING SPECIAL INSPECTION. PERIODIC INSPECTION: INTERMITTENT INSPECTION AS PERMITTED BY THE PLAN SPECIFICATIONS AT PREDETERMINED INTERVALS OR MORE FREQUENTLY AS WORK PROGRESSES. NO SIGNIFICANT ELEMENTS OR AREAS SHALL BE COVERED BY ADDITIONAL WORK UNTIL APPROVED BY THE MUNICIPAL BUILDING INSPECTOR AND/OR THE SPECIAL INSPECTOR G. STRUCTURAL OBSERVATION: THE VISUAL OBSERVATION, BY THE ENGINEER OF RECORD OR HIS DESIGNEE, INCLUDING BUT NOT LIMITED TO THE ELEMENTS AND CONNECTIONS, OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION. AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL AND MUNICIPAL INSPECTIONS REQUIRED BY CODES AND SPECIFICATIONS. H. EOR: ENGINEER OF RECORD DPR: ENGINEER OF RECORD/DESIGN PROFESSIONAL OF RECORD SPECIAL INSPECTION AND MATERIALS TESTING THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTORS DUTIES ARE DESCRIBED IN CBC 1701.3 AND CBC 1701.5 DOCUMENTED METHODS AND PROCEDURES SHALL BE USED FOR INSPECTION AND TESTING REQUIRED OF CONTRACTUAL DOCUMENTS, AND FOR ESTABLISHING ACCEPTANCE CRITERIA. ALL INSTRUCTIONS, STANDARDS, PROCEDURES, CHECKLISTS RELEVANT TO THE WORK WILL BE KEPT UP TO DATE AND READILY AVAILABLE FOR USE. NO INSPECTION OR TEST WILL BE PERFORMED IF THE SAFETY OF THE TESTING PERSONNEL IS IN QUESTION DUE TO JOB SITE CONDITIONS. PRIOR TO PROJECT COMMENCEMENT, THE TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD REGARDING THE INSPECTION AND TESTING PROCEDURES OR SPECIFICATIONS INCLUDING ANY APPROPRIATE ASTM METHODS, CODE REQUIREMENTS OR PROJECT SPECIFICATION REQUIREMENTS. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS, AS REQUIRED, AND PROCEDURS WITH APPLICABLE CODES, PLANS, AND SPECIFICATIONS. 1. ALL INSPECTIONS SHALL BE PERFORMED BY AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, 9A. WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE WORKMANSHIP PROVISIONS OF THE CBC. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL. SPECIAL INSPECTION REPORTS THESE REPORTS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION: A. PERMIT NUMBER B. NAME OF THE MUNICIPAL INSPECTOR, IF AVAILABLE, AND OF THE GOVERNING MUNICIPALITY SPECIAL INSPECTION AGENCY NAME, ADDRESS, AND PHONE NUMBER UNIQUE IDENTIFICATION OF THE REPORT AND OF EACH PAGE. . CLIENT NAME AND ADDRESS NAME AND ADDRESS OF THE DESIGN PROFESSIONAL OF RECORD, AND OTHER DESIGNERS OR ENGINEERS APPLICABLE TO THE PROJECT G. DESCRIPTION OF THE TYPE OF INSPECTION PERFORMED H. ANY UNRESOLVED DEVIATIONS, EXCLUSIONS, AND ADDITIONS TO OR FROM THE APPROVED DRAWINGS AND SPECIFICATIONS RELEVANT TO THE SPECIFIC INSPECTION COMPLIANCE FINDINGS AND REFERENCE DESCRIPTION OF LOCATION WHERE THE INSPECTION WAS PERFORMED WITHIN THE PROJECT K. TIME AND DATE OF THE INSPECTION MEASUREMENTS, EXAMINATIONS, AND DERIVED RESULTS SUPPORTED BY TABLES, GRAPHS, SKETCHES, OR PHOTOGRAPHS AS APPROPRIATE M. THE NAME, SIGNATURE, TITLE, AND IDENTIFICATION NUMBER, AS APPROPRIATE, OF THE FIELD INSPECTOR PERFORMING THE INSPECTION N. IDENTIFICATION OF SUBCONTRACTORS EMPLOYED TO CARRY OUT TESTS OR PARTS OF TESTS TESTS REPORTS LABORATORY TESTS AND MILL CERTIFICATIONS ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER OF RECORD. THESE REPORTS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: 1. CONCRETE CYLINDERS 2. REINFORCING STEEL 3. STRUCTURAL STEEL 4. CONCRETE MIXES 5. CONCRETE ANCHORS SPECIAL INSPECTION BY A SPECIAL OR DEPUTY INSPECTOR FROM AN ACCREDITED EOR APPROVED INSPECTION AGENCY AND WITH THE APPROPRIATE CURRENT MUNICIPAL LICENSES AND CERTIFICATIONS SHALL BE REQUIRED FOR THE TYPE OF WORK LISTED BELOW

8A CONTINUOUS INSPECTION REQUIRED FOR THE FOLLOWING:

- 1. DURING PLACEMENT OF REINFORCED CONCRETE WHERE THE STRUCTURAL DESIGN IS BASED ON F'C GREATER THAT 3,000 PSI AND THE TAKING TEST SPECIMENS. THE NUMBER OF AND FREQUENCY OF TAKING OF TEST SPECIMENS SHALL BE THE MINIMUM REQUIRED BY THE GOVERNING MUNICIPAL BUILDING CODE OR AS SPECIFIED BY THE APPROVED STRUCTURAL PLANS, WHICHEVER IS THE GREATER NUMBER
- 2. DURING THE PLACEMENT OF REINFORCING STEEL AND PRE STRESS TENDONS UNLESS THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE
- 3. DURING THE PLACEMENT OF REINFORCING STEEL AND CONCRETE FOR CAST-IN-PLACE DRILLED PILES OR CAISSONS 4. INSPECTION IS REQUIRED ON CAST-IN-PLACE PILES OR CAISSONS, EVEN IF F'C
- IS LESS THAN 2.500 PSI. 5. PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS WHEN
- STRESS INCREASES PERMITTED BY FOOTNOTE 5 OF TABLE 19E, SECTION 1925 OF THE UNIFORM BUILDING CODE FOR THE USE OF FULL VALUES FOR EMBEDDED BOI TS. 6. PRIOR TO AND DURING THE INSTALLATION OF ANCHORS REQUIRING TO BE DRILLED
- INTO CONCRETE. 7. DURING THE STRESSING AND GROUTING OF TENDONS IN PRE STRESSED
- 8. CONTINUOUS INSPECTION FOR THE PLACEMENT OF THE REINFORCEMENT AND CONCRETE AT CONCRETE MOMENT FRAMES WITHIN SEISMIC ZONES 3 & 4 9. SHOT CRETE PLACEMENT AND DURING THE TAKING OF TEST SPECIMENS
- PERIODIC INSPECTION FOR REINFORCED CONCRETE SHALL BE PERFORMED WHEN SPECIFIED. AS MINIMUMS: 1. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO
- ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIO AS REQUIRED, AND PROCEDURES WITH THE APPLICABLE CODES, PLANS AND SPECIFICATIONS
- REINFORCEMENT VERIFICATION PRIOR TO THE PLACEMENT OF CONCRETE 3. DURING THE PLACEMENT OF CONCRETE
- 4. DURING THE MOLDING, CONSTRUCTION OF TAKING OF COMPRESSION SAMPLES. BEAMS, CORES OR PANELS
- 5. AT SUCH FREQUENCY AS NECESSARY TO CLEARLY CONFIRM THE PLACEMENT OF TIES, HOOPS, STIRRUPS, CONNECTIONS, AND ANY ADDITIONAL SPECIFIED REINFORCEMENT (IE @ OPENINGS, BEAMS, CORNERS, COLUMNS, PIERS, AND CAISSONS) BEFORE THEY ARE COVERED.
- 6. DURING SAMPLING OF CONCRETE AT DISCHARGE FROM MIXER.
- 7. BEFORE ANY CONCRETE IS PLACED FOR VERIFICATION OF MIX DESIGN 8. ALL FUNCTIONS AT THE BATCHING PLANT FOR READY MIX. THIS COULD INCLUDE CEMENT SAMPLING OR TEST RESULTS, GRAVEL GRADATION, CHECKING CALIBRATION OF EQUIPMENT AND ADMIXTURE APPROVALS.
- B. STRUCTURAL WELDING GENERAL INSPECTOR'S DUTIES 1. ALL FIELD WELDING NOT DONE IN AN APPROVED FABRICATORS SHOP EXCEPT THAT PERIODIC INSPECTION THE FREQUENCY OF WHICH IS DETERMINED PRIOR TO THE START OF THE PROJECT SHALL BE ALLOWED PER SECTION 1701.5, #5 EXCEPTIONS.
- 2. DURING ALL FIELD WELDING OF SPECIAL MOMENT-RESISTING FRAMES; IN ADDITION, NONDESTRUCTIVE TESTING AS REQUIRED BY SECTION 1703.
- 3. THE SPECIAL INSPECTOR SHALL REVIEW EOR APPROVED WELDING PROCEDURES SPECIFICATIONS (WPS) WHEN OTHER THAN STANDARD AWS PRE QUALIFIED JOINTS AND PROCEDURES ARE INVOLVED.
- 4. THE SPECIAL INSPECTOR SHALL REVIEW APPLICABLE SECTION OF REFERENCED CODES, PARTICULARLY THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1) AND THE MANUAL, AND SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
- 5. THE SPECIAL INSPECTOR SHALL REVIEW MILL TEST REPORTS AND CHECK HEAT NUMBERS WITH MATERIAL AS RECEIVED. VERIFY THAT PROPER IDENTIFICATIO OF STEEL IS MAINTAINED DURING FABRICATION.
- 6. THE SPECIAL INSPECTOR SHALL, WHEN REQUIRED BY PROJECT SPECIFICATIONS, MARK SAMPLE LOCATION WITH STEEL STAMP ON EACH PIECE TESTED.
- 7. THE SPECIAL INSPECTOR SHALL RECORD SAMPLE NUMBER AND LOCATION AND CHECK THAT SAMPLE IDENTIFICATION IS MAINTAINED AS SAMPLES ARE DELIVERED TO LABORATORY AND TESTED.
- 8. THE SPECIAL INSPECTOR SHALL WHEN STEEL MEMBERS ARE DELIVERED TO FINISH AND NO "CROP ENDS" ARE AVAILABLE FOR SAMPLE CUTTING, COORDINATE CUTTING AND PATCHING REQUIREMENTS WITH THE ARCHITECT/ENGINEER WELDING OBSERVATION - (APPLICABLE TO SHOP AND FIELD)
- 1. THE SPECIAL INSPECTOR SHALL CHECK EACH WELDER'S CERTIFICATION AND VERIFY THAT THE WELDER DOES WORK ONLY AS QUALIFIED BY HIS CERTIFICATION
- 2. THE SPECIAL INSPECTOR SHALL KEEP A WRITTEN RECORD OF EACH WELDER BY NAME, IDENTIFICATION NUMBER AND HIS IDENTIFYING STEEL MARK, IF APPLICABLE, AND THE PERCENTAGE OF REJECTABLE WELDS.
- 3. THE SPECIAL INSPECTOR SHALL UPON DETECTION OF REJECTABLE WELD (EITHER VISUALLY OR BY NONDESTRUCTIVE TEST). THE INSPECTOR OF RECORD WILL NOTIFY THE WELDER AND HIS FOREMAN FOR VERIFICATION OF DEFECT. THE INSPECTOR OF RECORD WILL OBSERVE REMOVAL, REWORK, OR REPAIRS
- 4. THE SPECIAL INSPECTOR SHALL CHECK STRUCTURAL MEMBERS FOR THICKNESS ADJACENT TO WELDS, OPENING, ETC. REWORK, OR REPAIRS.
- 5. THE SPECIAL INSPECTOR SHALL INSPECT JOINTS FOR PROPER PREPARATION,
- INCLUDING BEVEL, ROOT FACES, ROOT OPENING, ETC. REWORK, OR REPAIRS. 6. THE SPECIAL INSPECTOR SHALL CHECK THE TYPE AND SIZE OF ELECTRODES
- TO BE USED FOR THE VARIOUS JOINTS, AND POSITIONS. CHECK THE STROGAGE FACILITIES TO SEE IF THEY ARE ADEQUATE TO KEEP THE ELECTRODES DRY. 7. THE SPECIAL INSPECTOR SHALL OBSERVE THE TECHNIQUE OF EACH THE SPECI
- INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD. 8. THE SPECIAL INSPECTOR SHALL VERIFY THE USE OF PROPER PREHEAT AND INT
- TEMPERATURES. INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECT THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. INSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELI AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT AN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE
- AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERF 10. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS.
- 11. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY. OR MORE OFTEN IF CODES AND SPECIFICATIONS REQUIRE.
- 12. THE SPECIAL INSPECTOR SHALL, IF STRAIGHTENING OR RESTRAINING OF
- WELDMENTS IS NECESSARY, VERIFY THAT APPROVED METHODS WILL BE USED. 13. THE SPECIAL INSPECTOR SHALL TAG OR STAMP ACCEPTED WELDMENTS WITH THE INSPECTOR'S IDENTIFICATION STAMP. APPROVED METHODS WILL BE USED.

JACK AND KING STUD

SIZE OF OPENING	24" O.C. 5	STUD SPACING	16" O.C. S1	UD S
	NO. OF JACK STUDS ¹	NO. OF KING STUDS ²	NO. OF JACK STUDS ¹	NC
UP TO 3'-6"	1	1	1	
> 3'-6" TO 5'-0"	1	2	1	
> 5'-0" TO 5'-6"	1	2	2	
> 5'-6" TO 8'-0"	1	2	2	
> 8'-0" TO 10'-6"	2	2	2	
> 10'-6" TO 12'-0"	2	2	3	
> 12'-0" TO 13'-0"	2	3	3	
> 13'-0" TO 14'-0"	2	3	3	
> 14'-0" TO 16'-0"	2	3	3	
> 16'-0" TO 17'-0"	3	3	4	
> 17'-0" TO 18'-0"	3	3	4	

1 TOTAL NUMBER OF JACK STUDS REQUIRED AT EACH END OF THE HEADER.

(1) LOW PROFILE HEAD IS USED IN LIEU OF PAN OR HEX WASHER HEADS WHERE LEAST PROJECTION OF FASTENER IS DESIRED. (2) S-7 POINT WILL SUBSTITUTE S-12 WHEN ATTACHING .07" MEMBERS TOGETHER. (3) #2 POINT SELF DRILLING SCREW WILL BE SUBSTITUTED BY #3 POINT SELF DRILLING SCREW WHEN STEEL

STRUCTURAL MASONRY (SPECIAL INSPECTION)

AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL

C. LOCATION OF REINFORCEMENT AND CONNECTORS.

A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.

STRUCTURAL MEMBERS, FRAMES AND OTHER

B. TYPE, SIZE AND LOCATION OF DOWELS, ANCHORS,

INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY

TO OTHER DETAILS OF ANCHORAGE OF MASONRY TO

A. PROPORTIONS OF SITE PREPARED MORTAR

B. CONSTRUCTION OF MORTAR JOINTS.

THE INSPECTION PROGRAM SHALL VERIFY:

INSPECTION

BE VERIFIED TO ENSURE COMPLIANCE:

INSPECTION

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D D D

8A. PORTIC	INS OF WORK REQUIRING SPECIAL INSPECTION:	YES	NO	1
	A. COMPACTED FILL, GRADING, AND EXCAVATIONS	х		Γ
FOUNDATION	B. CONTINUOUS INSPECTION OF PIERS			>
	A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR CONCRETE.	Х		
	B. CONTINUOUS INSPECTION FOR SLAB CONCRETE		Х	
CONCRET E	C. TEST CYLINDERS FOR SLAB CONCRETE	Х		
	D. ANCHOR BOLTS OR EMBEDS IN CONCRETE (INSTALLATION AND CONCRETE PLACEMENT)		х	
	A. ALL ADHESIVE ANCHORS, RODS, DOWELS, SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION.	x		Ī
DRILLED IN	B. ADDITIONAL TESTING MAY BE REQUIRED AS SPECIFIED ON THE PLANS.		x	T
ANCHOR S	C. ADHESIVE ANCHORS IN CONCRETE OR MASONRY	x		
REINFORCIN	A. PLACING OF REINFORCING		Х	Ī
STEEL	B. SAMPLING AND TESTING STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL)		x	T
	A. ALL STRUCTURAL WELDING EXCEPT WELDING IN APPROVED SHOPS	Х		
WELDING	B. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS , AND FIELD WELDS.	x		Ī
	C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING.			t
	D. REINFORCING STEEL WELDING	x		t
	A. HIGH STRENGTH BOLT A325 & A490 (TORQUE VERIFICATION)	х		-
BOLTING	B. HIGH STRENGTH BOLT A325N,X & A480N,X (SNUG CONTACT OF PLYS)	х		
	A. SAMPLING OF MASONRY UNITS	х		T
	B. MASONRY PRISM CONSTRUCTION	х		T
	C. MORTAR SAMPLING	X		T
MASONR	D. CONTINUOUS INSPECTION DURING PLACEMENT AND GROUTING OF MASONRY UNITS AND REINFORCEMENT PLACEMENT.	x		
	E. ANCHOR BOLTS OR EMBEDS IN MASONRY (INSTALLATION AND GROUT PLACEMENT)	x		T
INSULATIN CONCRET E FILL	A. TEST CYLINDERS AND INSPECTIONS			t
STRUCTUR	A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE)		х	t
STRUCTUR/ L STEEL	B. SAMPLING AND TESTING		Х	t
	C. DURING PLACEMENT OF PAINT AS SPECIFIED BY THE ARCHITECT.		х	t
SHEA DIAPHRAGM	A. INSPECTION OF SHEATHING PLACEMENT AND NAIL SPACING			t
APPROVE	APPROVED FABRICATORS: MUST SUBMIT CERTIFICATE OF COMPLIANCE FOR ALL OFF SITE FABRICATION SUCH AS STRUCTURAL STEEL GLU-LAMS PRECAST CONCRETE, ETC.	x		T
STRUCTURA OBSERVATIO	STRUCTURAL OBSERVATIONS REQUIRED. WHEN REQUIRED BY THIS ENGINEER OR THE BUILDING DEPARTMENT. THE CONTRACTOR SHALL	x		

HEADER TO KING

HEADER SPAN	3 5/8" STUD WALL	6" STUD WALL		
< 4'	(2) 6" CSJ 18ga.	(3) 6" CSJ 18ga.		
> 4' TO 8'	(2) 8" CSJ 18 ga.	(3) 8" CSJ 18 ga.		
> 8' TO 12'	(2) 10" CSJ 18 ga.	(3) 10" CSJ 16 ga.		
> 12' TO 16'	(2) 12" CSJ 18 ga.	(3) 12" CSJ 14 ga.		

HEADER TO KING

	HEADER SPAN	
TER PASS TION SHIELD.	< 4'	(4) #10 SCREWS
. CONTINUOUS _DING AREA	> 4' TO 8'	(4) #10 SCREWS
	> 8' TO 12'	(6) #12 SCREWS
BE IN THE FORMED.	> 12' TO 16'	(8) #12 SCREWS

PACING
. OF KING STUDS ²
1
2
2
2
3
3
3
4
4
4
4
R

2 TOTAL NUMBER OF KING STUDS REQUIRED AT EACH END OF THE HEADER.

THICKNESS VARIES BETWEEN .09" TO .250". CONSULT MFG. RECOMMENDED THICKNESS FOR DRILL CAPACITY.

MAS	ONRY	Х				CONSTRUCTIO	ON IT MIX FOR COMPLIANCE W		x	
			Х				REINFORCING BARS.		x	
STEE	EL)		x			WEATHER (TE	OF MASONRY DURING CO EMP. BELOW 40 °F) OR HO EMP. ABOVE 90 °F)		X	
		Х				CUTTING OF C	EMP. ABOVE 90 °F). CLEAN OUT HOLES, KNOCH MORAL OF DEBRIS.	KING DOWN OF	X	
ATIC	ON WELD	х			3.		IG, THE FOLLOWING SHAL	L BE VERIFIED TO		
EW	ELDING.			x		A. GROUT SPAC B. PLACEMENT (E IS CLEAN. OF REINFORCEMENT AND		X X	
		Х				SPECIFICATIO	IT MIX FOR COMPLIANCE W DNS. ON OF MORTAR JOINTS.	/IFH CODE AND	x	
~		Х			4.	E. CHECK INSTA	LLATION OF CLEAN OUT C			
,Х		Х			4 .	COMPLIANCE WITH	CODE AND CONSTRUCTIC	ON DOCUMENT	X	
		X			5.	PLACEMENT AND LA	ATER DURING RECONSOLI	DATION.)	x	
		X X				SPECIMENS AND/OF	R PRISMS SHALL BE OBSE REQUIRED INSPECTION P	RVED.		
	ENT AND GROUTING	х					E CONSTRUCTON DOCUMI TALS SHALL BE VERIFIED.	-		
RY		х			7. 8.		NG REQUIREMENTS ARE BI T OF ANCHORS INTO CONC		X X	
						UNITS. FREQUENCY OF TE	STS:		×	
0				X		AND GRADE OF	ASONRY UNIT TEST- FOR E F CONCRETE MASONRY UN HOD OF SAMPLING AND TE	NIT INDICATED, TEST		
STE	EL		X			C140. ONE SET	HOD OF SAMPLING AND TE T FO CMU STANDARD PRIS OR EVERY 5,000 SQ. FT. O	SM TEST SHALL BE		
ובירי			X X			CONSTRUCTIO LESS THAN ON	IN ACCORDANCE TO AS IE SET OF 3 MASONRY PRI	TM C1314, BUT NOT		
	D BY THE ARCHITECT.		X			PROJECT. B. MORTAR TEST	: FOR EACH TYPE INDICAT	TED, TEST MORTAR		
				X		CONDUCT TES	OF SAMPLING AND TESTNO TS NO LESS FREQUENTLY	THAN THAT		
	CATE OF COMPLIANCE URAL STEEL GLU-LAMS	Х				INCREMENT OF	EVALUATE MORTAR USED F MASONRY UNITS INDICAT ES ARE TAKEN FOR TESTII	TED ABOVE FROM		
	REQUIRED BY THIS CONTRACTOR SHALL	х				FOR EVERY 1,5	500 SQ. FT. OF WALL CONS AT START OF GROUTNG C	STRUCTION.		
	D PERFORM					ONE TEST PER CONSISTS OF	R DAY FOR FIRST 3 DAYS. THREE SPECIMENS MADE	EACH GROUT TEST IN ACCORDANCE		
						FOR CONTINUI	019. AFTER FIRST THREE NG QUALITY CONTROL SH	OULD BE TAKEN		
					10.	FOR EVERY 2,5	FOR EVERY 25 CUBIC YAR 500 SQ. FT. OF WALL, WHIC 2 DECLUDEMENTS			
1					_	MASONRY TESTING STING METHOD OPTIONS	REQUIREMENTS PRIOR TO CONSTRUCTION	DURING CONSTRUCTION	X	
_L ga.						THOD 1:	5 PRISMS	3 PRISMS FOR EVERY		
ga. ga.					TES	SONRY PRISM STING	5 F RI3M3	5,000 S.F. OF WALL		
6 ga					MA	THOD 2: SONRY PRISM ST RECORD	APPROVED 30 PRISM RECORD	3 PRISMS FOR EVERY 5,000 S.F. OF WALL		
4 ga	·]				ME	THOD 3:	_	UNITS AND GROUT OR		
F	ASTENING					IT STRENGTH THOD	UNITS AND GROUT OR 5 PRISM	3 PRISMS FOR EVERY 5,000 S.F. OF WALL		
	MATERIALS					FASTENER		FREQUENCY OR QUANTITY	i	
	CEILING JOIST TO WO	OD T	op pl	ATE		1" - 1 1/8" #10		1 AT EACH JOIST		
+	CEILING JOIST TO TOP						F DRILLING PAN HEAD	1 AT EACH JOIST		
+	CONNECTION CLIP TO					1" -1 1/8" #10 5/8" - 3/4" #10 SELF	F DRILLING PAN HEAD	4 AT EACH CLIP TO TOP PL/ 4 AT EACH CLIP TO TOP PL/		
	CONNECTION CLIP TO	-					F DRILLING PAN HEAD	MIN. 3 AT EACH CLIP TO CE		
-		D^				5/8" 2/4" #40.000		AND AS PER LOADING		
	CONNECTION CLIP TO	ĸAŀ	i EK			510 - 314" #10 SELF	F DRILLING PAN HEAD	MIN. 3 AT EACH CLIP TO RA PER LOADING	THER AND AS	
ļ	CEILING JOIST TO PAR	RALLE	EL RAI	TER		5/8" - 3/4" #10 SELF	F DRILLING PAN HEAD	NO. VARIES AS PER LOADIN	-	
	CEILING JOIST TO TRU	JSS V	VEB			5/8" - 3/4" #10 SELF	F DRILLING PAN HEAD	MIN. 2 AT FLANGE AND AS PER LOAI JOIST MIN. 2 AT WEB		
	CEILING JOIST, OVERI	_APPE	ED AT	SUPF	PORT	5/8" - 3/4" #10 SELF	F DRILLING PAN HEAD			
	CONNECTION CLIP TO						F DRILLING PAN HEAD	4 - 6 AT EACH CLIP TO RIDGE MIN. 6 AT OVERLAPPED WEB SECT AND AS PER LOADING		
	RAFTERS OVERLAPPE	D AT	RIDG	E		5/8" - 3/4" #10 SELF	F DRILLING PAN HEAD			
ļ	BUILT UP BEAM (RIDG						F DRILLING PAN HEAD	1 AT EACH FLANGE AT 12" ().C.	
-	STIFFBACK BRACING		-				F DRILLING PAN HEAD F DRILLING LOW PROFILE	MIN. 2 AT EACH JOIST 1 AT EACH CONNECTION CL		
		2 1 1/ 1	(\			PAN HEAD		TOP PLATE		
	WOOD FASCIA TO SUE	3-FAS	CIA T	RACK		1 5/8" #6 TRIM HEA	AD	2 AT 24" O.C. AND AT MAXIM FROM EACH END OF BOARD		
-	STUD TO PLATE TRAC	K (BC	OTTO	N)		5/8" - 3/4" #8 OR #1	0 SELF DRILLING LOW	1 AT EACH FLANGE		
						PROFILE HEAD				
	STUD TO PLATE TRAC	к (ТС	רא)			5/8" - 3/4" #8 OR #1 PROFILE HEAD	10 SELF DRILLING LOW	1 AT EACH FLANGE		
F	DIAGONAL BRACING T	O ST	UD			1/2" - 5/8" #8 OR #1 PROFILE HEAD	0 SELF DRILLING LOW	1 AT EACH STUD		
-	LATERAL BRACING TC	STU	D			-	0 SELF DRILLING LOW	1 AT EACH STUD PER STRA	P OR 3 AT	
						PROFILE HEAD		CONNECTION CLIP WITH CO		
+	STUD TO STUD (NEST	ED)				1/2" - 5/8" #8 OR #1	10 SELF DRILLING LOW	ROLLED CHANNEL	ANGE	
		·~)				PROFILE HEAD				
	STUD TO STUD (BACK	то в	ACK)			1/2" - 5/8" #8 OR #1 PROFILE HEAD	10 SELF DRILLING LOW	1 AT 24" O.C. THROUGH WE	В	
-	STUD TO STUD (AT W	ALL IN	NTERS	SECTI	ON)		0 SELF DRILLING LOW	1 AT 24" O.C. OR 1 AT EACH	BLOCKING	
						PROFILE HEAD				
	LINTEL TO STUD					1/2" - 5/8" #8 OR #1 PROFILE HEAD	10 SELF DRILLING LOW	REQUIREMENT VARIES WITH DIFFE		
WALL BOTTOM TRACK (RUNNER) TO FOUNDATION				1/2" DIAMETER AN	CHOR BOLT	4'-0" O.C., (1) 9" FROM END OF WALL OF EACH SIDE OF SPLICE				
		`			1					

METAL BUILDING SYSTEM

1. PRE-MANUFACTURED METAL BUILDING SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS AND HAVING THREE (3) OR MORE YEARS EXPERIENCE IN THE DESIGN OF THE TYPE OF THE BUILDING INDICATED ON THE CONTRACT DOCUMENTS

2. THE METAL BUILDING AND COMPONENTS SHALL BE DESIGNED TO CARRY ITS OWN WEIGHT PLUS ALL SUPERIMPOSED DEAD AND LIVE LOADS INCLUDING WIND LOADS FROM ALL DIRECTIONS AND INCLUDING ALL MECHANICAL, ELECTRICAL AND ARCHITECTURAL LOADS. VERIFY ALL LOADS WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL PLANS. 3. VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO DESIGN, FABRICATION OR ERECTION OF PRE-MANUFACTURED BUILDINGS. 4. PRE-MANUFACTURED BUILDING FRAMES AND THE CONNECTION OF FRAME TO THE

FOUNDATION IS TO BE DESIGNED BY OTHERS AND IS NOT THE RESPONSIBILITY OF SER CONTRACTOR SHALL COORDINATE THE CONNECTION OF THE BUILDING FRAME WITH THE SUPPLIER PRIOR TO CONSTRUCTION.

5. THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-MANUFACTURED BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS BASE PLATE AND DIAMETER AND LENGTH ANCHOR BOLTS) AND REACTIONS OF THE BUILDINGFRAMES TO THE ENGINEER PRIOR TO CONSTRUCTION SO THE DESIGN

ASSUMPTIONS CAN BE VERIFIED. DEPTH OF ANCHOR BOLTS SHALL BE SUFFICIENT TO PREVENT CONICAL SHEAR OF THE CONCRETE FOUNDATION. 6. METAL BUILDING SUPPLIER SHALL PROVIDE AND SUBMIT FOR REVIEW ALL DESIGN CALCULATIONS AND DRAWINGS. ALLOW TWO (2) WEEKS FOR REVIEW OF SHOP DRAWINGS. 7. ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-MANUFACTURED BUILDING REACTIONS ARE SUBMITTED

SHALL BE BY OTHERS. 8. METAL ROOF DOES NOT PROVIDE LATERAL BRACING FOR THE PURLINS, BRIDGING SHALL BE DESIGNED AND SUPPLIED BY THE PURLIN MANUFACTURER 9. REFER TO MECHANICAL DRAWINGS FOR ROOF SUPPORTED HVAC UNITS AND PROVIDE SUPPORT FOR ADDITIONAL LOADS AS REQUIRED.

10. MAXIMUM PURLIN SPACING SHALL BE 5'-0" O.C. WITH A MAXIMUM ALLOWABLE TOTAL DEFLECTION OF L/240. 11. PRE-MANUFACTURED BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING

REQUIRED TO SUPPORT THE WEIGHT MECH'L UNITS AND PROVIDE PROPER SERVICEABILITY OF SUSPENDED MECHANICAL UNITS, MECHANICAL DUCTWORK, LIGHT FIXTURES, AND ALL OTHER SUSPENDED ITEMS AND ITEMS SUPPORTED ON TOP OF ROOF 12. DETAILS SHALL BE INCLUDED WHICH CLEARLY DETAIL RIGID FRAME BASE, HAUNCH, RIDGE PLATE CONNECTIONS AND OTHER MEMBER-TO-MEMBER CONNECTIONS. 13. WIND LOAD DESIGN SHALL INDICATE METHOD OF TRANSFERRING FORCES TO: A. END WALL WIND LOAD TO SIDE WALL FOUNDATIONS. B. AT END BAY SIDE WALL WIND LOAD TO END WALL FOUNDATIONS, CALCULATIONS SHALL SHOW HOW WIND LOAD IS TRANSFERRED

TO EAVE STRUT. 14. PORTAL MOMENT FRAMES SHALL BE USED TO RESIST HORIZONTAL WIND FORCES. DESIGN OF ALL CONNECTIONS SHALL BE CLEARLY INDICATED. 15. DESIGN OF HORIZONTAL CROSS-BRACING IN PLANE OF ROOF FRAMING SHALL BE

COMPLETE AND SHALL INDICATE METHOD OF TRANSFERRING TRIBUTARY WIND LOAD TO RIGID FRAMES OR THE SIDE WALL PORTAL FRAMES. 16. ALL COLUMN BASE PLATES SHALL BE SET AND GROUTED UNDER FOR FULL CONTACT

BFARING 17. ALL BASES FOR THE COLUMNS SHALL BE "PINNED" AND NOT ASSUMED AS FIXED. NO MOMENT FORCES SHALL BE TRANSFERRED INTO THE BUILDING FOUNDATION. 18. PROVIDE BUILDING CROSS SECTIONS AND ELEVATIONS WHICH CLEARLY SHOW THE PRIMARY STRUCTURAL RIGID MOMENT FRAME, PORTAL MOMENT FRAME, END WALL POST AND BEAMS, INTERIOR COLUMNS, AND OTHER STRUCTURAL MEMBERS THAT ARE TO BE USED ON THE SUBMITTED BUILDING. SIZE OF ALL STANDARD AISC MEMBERS AND OF ALL WEB AND FLANGE SECTIONS USED IN BUILT UP MEMBER SHALL BE NOTED AS WELL AS ALL

BOLTS AND WELDING. 19. DESIGN AND MEMBERS FOR FRAMED OPENINGS SHALL BE PROVIDED AS PART OF THE METAL BUILDING DESIGN.

20. LATERAL SUPPORT BEAMS SHALL BE DESIGNED BY METAL BUILDING SYSTEM SUPPLIER 21. DEFLECTION CRITERIA

- a. GIRTS SUPPORTING METAL STUD WALLS L/360
- b. GIRTS SUPPORTING CMU WALLS L/480
- c. HORIZONTAL DEFLECTION OF FRAME L/360 d. VERTICAL DEFLECTION OF FRAME L/240
- e. LATERAL SUPPORT BEAMS FOR METAL STUD WALLS L/360
- f. LATERAL SUPPORT BEAMS FOR CMU WALLS L/480

22. ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE DESIGN. FABRICATION. AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS AMENDED TO DATE AND THE CODE OF STANDARD PRACTICE, LATEST EDITION AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS FOLLOWS:

a. SECTION 3. IN CASE OF DESCREPENCY, STRUCTURAL ENGINEERS DRAWINGS GOVERN b. SECTION 4.2.1, DELETE FIRST TWO SENTENCES.

SECTION 4.2.2. ANY CHANGES, ADDITIONS OR DELETIONS REQUIRER APPROVAL FROM OWNER, CONTRACTOR AND ENGINEER. d. SECTION 7. ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL

- CONTRACTOR
- e. SECTION 7.9.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF CONSTRUCTION

f. SECTION 7.9.4, THE CONTRACTOR TO DESIGN SHORES, JACKS OR LOADS 23. STEEL SHOP SHALL BE AISC CERTIFIED AND LOCATED WITHIN 200 MILES FROM JOBSITE.

MEDIUM WEIGHT BLOCK

f'c = 3000 PSI

REINFORCED CONCRETE MASONRY UNITS

CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND AS FOLLOWS: 1900 PSI MINIMUM AVERAGE NET AREA

- * UNIT COMPRESSIVE STRENGTH: COMPRESSIVE STRENGTH.
- * WEIGHT CLASSIFICATION: * GROUT
- * MORTAR SHALL BE TYPE

* CONCRETE MASONRY ASSEMBLAGE (f'm) SHALL BE 1500 PSI

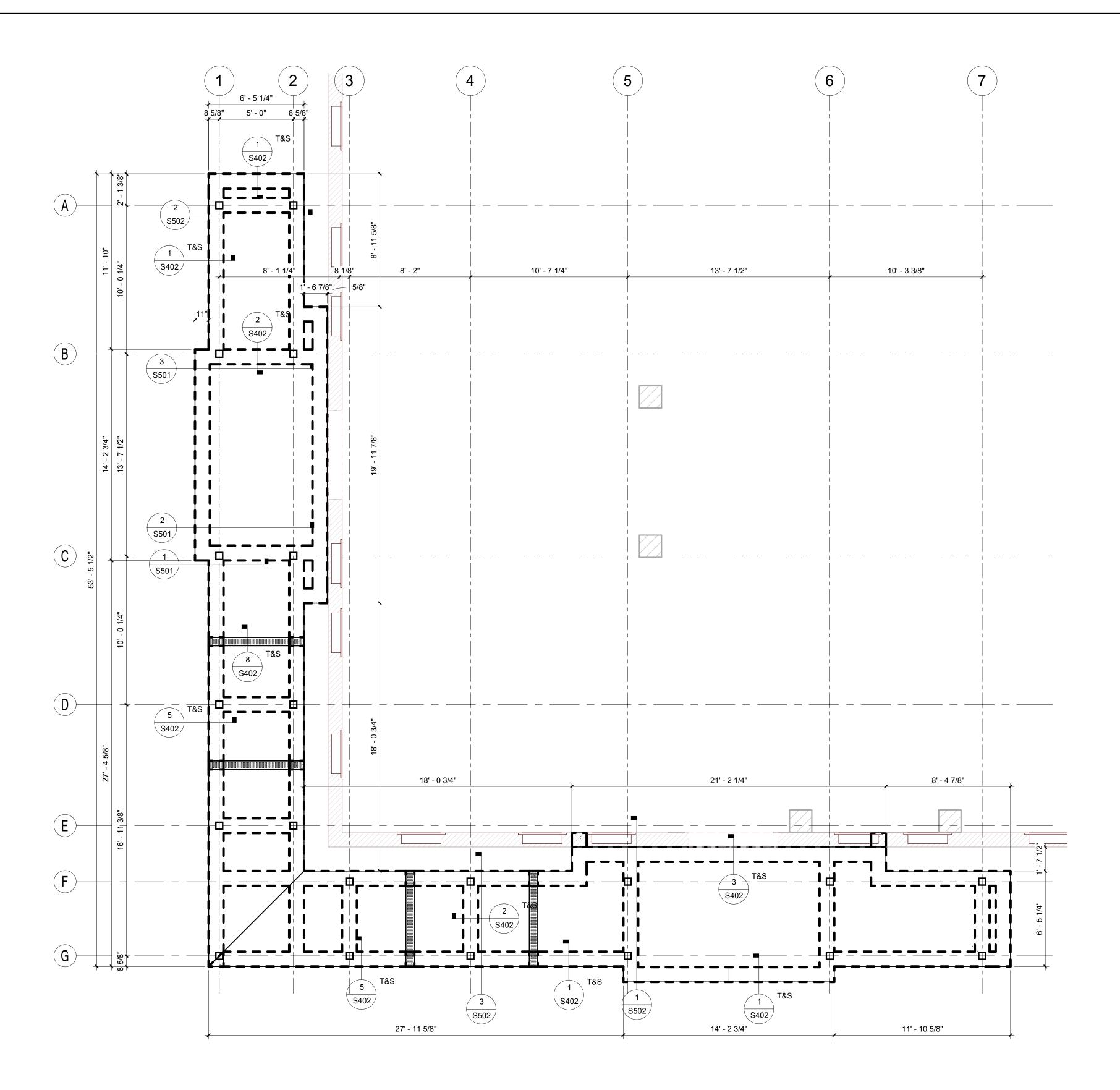
ALL REINFORCING BARS SHALL BE NEW BILLET STEEL AND SHALL CONFORM TO ASTM A-615,

- GRADE 60, REINFORCING BARS #3 AND SMALLER MAY BE GRADE 40. CONCRETE SHALL CONFORM TO ASTM C150 TYPE I, LOW ALKALI, MASONRY CEMENTS
- ARE NOT ALLOWED

PICAL VERTICAL	REINFORCEMENT, U.N.O. (I	DRAWING NOTES GOVE	RN OVER THESE NOT
CMU	VERTICAL	OPENINGS AND DOWELS	CORNERS
8"	#6 AT 32" O.C.	(2) #5	(3) #5
6"	#4 AT 48" O.C.	(1) #4	(3) #4
12"	(2) #6 AT 32" O.C.	(2) #6	(3) #6

ALL VERTICAL REINFORCEMENT TO BE IN CONCRETE OR GROUT FILLED CELLS, PROVIDE DOWELS FROM FOUNDATION, SAME SIZE AND SPACING. TYPICAL HORIZONTAL REINFORCEMENT SHALL BE TWO (2) #5 CONTINUOUS IN 8"x16"

- DEEP CONTINUOUS CONCRETE FILLED BOND BEAM BELOW EACH FLOOR AND ROOF LEVEL, UNLESS NOTED OTHERWISE. PROVIDE STANDARD DUR-O-WALL TRUSS-TYPE REINFORCING OR REVIEWED EQUIVALENT EVERY OTHER COURSE (16" ON CENTER) AND AS PER MANUFACTURER'S RECOMMENDATIONS. (9 GAGE MINIMUM GALVANIZED)
- VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONTINUOUS VERTICAL. WALL LENGTHS LESS THAN OR EQUAL TO FOUR (4) TIMES ITS THICKNESS SHALL BE
- CONSIDERED COLUMN SECTIONS AND SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING IN FILLED CELLS, PROVIDE 1/4 INCH DIAMETER TIES EVERY COURSE (8" ON CENTER) IN LIEU OF DUR-O-WALL REINFORCING, PLACE TIES NOT LESS THAN 1 1/2" NOR MORE THAN 5" FROM THE SURFACE OF THE COLUMN.
- ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE FILLED SOLIDLY WITH PEA GRAVEL CONCRETE (3/8" MAX. AGGREGATE SIZE) OR GROUT, EACH WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, GROUT OR CONCRETE SHALL BE A WORKABLE MIX SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED, GROUT OR CONCRETE SHALL BE PLACE BY PUMPING OR AN APPROVED ALTERNATE METHOD AND SHALL BE PLACED BEFORE INITIAL SET OR HARDENING OCCURS. GROUTING SHALL BE PER NCHA TEK 3-2
- ALLOW C.M.U. WALLS TO SET AT LEAST 24 HOURS AFTER COMPLETION BEFORE GROUTING, GROUT OR CONCRETE SHALL BE CONSOLIDATED BY RESOLIDATION AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY IS LOST, THE FILLING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY WITHOUT INTERRUPTIONS GREATER THAN ONE HOUR, AND PLACED IN LAYERS OF 4 FEET MAXIMUM.
- WHERE THE CONCRETE OR GROUT POUR EXCEEDS 4 FEET IN HEIGHT, CLEANOUTS SHALL BE PROVIDED BY SUITABLE OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE FILLED, OR OTHER APPROVED LOCATIONS, THE CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE BEING FILLED.
- WHEN CELL FILLING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING THE POUR OF CONCRETE OR GROUT APPROXIMATELY 1/2 INCH ABOVE OR BELOW BED JOINT.
- END WALLS AND CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULL BEDDED IN MORTAR TO PREVENT LEAKAGE OF CONCRETE OR GROUT UNLESS WALL IS TO BE POURED SOLID
- PROVIDE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 24' (10' FROM CORNERS. DO NOT CONTINUE THE TYPICAL TRUSS TYPE JOINT REINFORCEMENT THROUGH THE JOINT. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE JOINT. DURING ERECTION, COVER TOP OF WALLS, PROJECTIONS AND SILLS WITH WATERPROOF SHEATHING AT THE END OF EACH DAY'S WORK
- Milnet Architectura Service AMERICAN INSTITUTE OF ARCHITECTS SOLORIO 108 W 18th Street Mission, TX 78572 (956) 631-1500 www.solorio.con × 83066 August 20, 2018 VGINEER IS AN OFFENSE UNDER THE TE ENGINEERING PRACTICE ACT. -For Construction S Ζ $-\mathbf{O}$ - < [·] M Λ O ш – Ш – **M** Ω Ο PROJECT NUMBER 18166 August 20, 2018 SHEET



Foundation Plan 1 1/4" = 1'-0" s501 s201

FOUNDATION NOTES

- 1. FOR GENERAL NOTES SEE SHEET S101 AND S102.
- 2. FOR TYPICAL DETAILS SEE SHEETS NUMBER S400 3. CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN.
- 4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- 5. REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS. 6. SLOPE SLAB TO DRAINS, SEE ARCHITECTURAL PLANS FOR SLOPE.
- 7. REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT
- RESPONSIBLE FOR TYPE OF FLOOR FINISHES. 8. PROVIDE SLAB CONTRACTION JOINTS PER TYPICAL DETAIL
- 9. THE TESTING LABORATORY SHALL BE THE OWNERS REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND COMPACTION, AND SHALL GIVE WRITTEN APPROVAL OF THE COMPLETED FILL. THE TESTING LABORATORY SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
- 10. ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE MORE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
- 11. IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- 12. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- 13. THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.
- 14. CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- 15. WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
- 16. DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
- 17. AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
- 18. THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. (P1 BETWEEN 15 AND 25)
- 19. NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.
- 20. CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED: a) REMOVAL AND REPLACEMENT WITH SELECT FILL:
- b) CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE, c) DRYING BY NATURAL MEANS.

SLAB ON GRADE

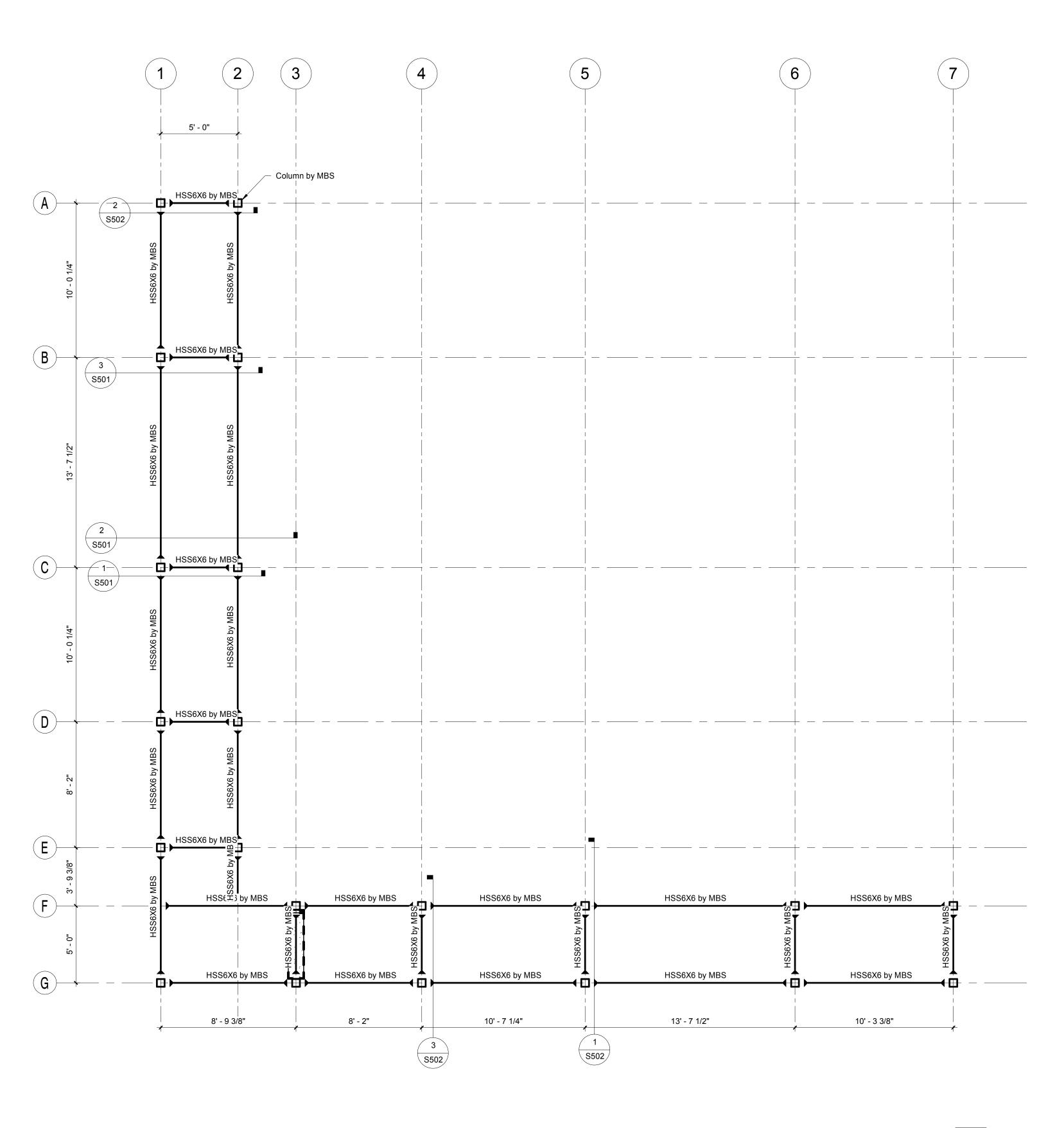
COMPACTION (ONE TEST PER):

	SEAD ON ONADE	
	THICKNESS	5.0 INCHES
	REINFORCING (EACH WAY)	#4 AT 14" O.C.
	REINFORCING LOCATION	MID DEPTH
	VISQUEEN	15 MIL
	CONCRETE CHAIRS (NO PLASTIC CHAIRS ALLOWED)	3' O.C. EACH WAY
S	UBGRADE PREPARATION	
1.	SITE PREPARATION	
Α.	PREPARATION OF EXISTING GROUND	

л.				
	ALL AREAS TO SUPPORT SELECT FILL SHALL BE STRIPPED O	F		
	ALL VEGETATION AND/OR ORGANIC TOPSOIL:	6	INCHES	
	ADDITIONAL DEPTH OF REMOVAL:	*24	INCHES	
	EXTEND BEYOND BUILDING FOOT PRINT:	3	FEET	
	EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF:	9	INCHES	
	MOISTURE: (OPTIMUM MOISTURE CONTENT)	-2 7	ГО +2%	
	COMPACTION (ASTM D-698) (MAXIMUM DENSITY):	95%)	
В.	SELECT FILL MATERIAL			
	AMOUNT OF COMPACTED SELECT FILL:	54*	INCHES	
	NO ORGANIC OR OTHER PERISHABLE MATERIAL			
	NO STONES LARGER THAN	2	INCHES	
	*FINISHED FLOOR SHALL BE AS INDICATED ON CIVIL			
	DRAWINGS, INCREASE INDICATED AMOUNT OF FILL AS			
	REQUIRED TO ACHIEVE MOST STRINGENT REQUIREMENT.			
	INCREASE EXCAVATION AS REQUIRED TO MEET MINIMUM AMOUNT OF SELECT FILL			
	AMOUNT OF SELECT FILL			
	FILL MATERIAL SHALL BE AS INDICATED ON THE			
	GEOTECHNICAL REPORT.			
С	PLACING SELECT FILL			
0.	FILL LIFTS (LOOSE MEASURE, NOT EXCEEDING):	8	INCHES	
D.	COMPACTION OF SELECT FILL	Ū		
υ.	MOISTURE: (OPTIMUM MOISTURE CONTENT)	-2]	ΓO +2	
	COMPACTION (ASTM D-698) (MAXIMUM DENSITY):	95%		
F	COMPACTION TESTING	,	Ŧ	
<u> </u>	ATTERBERG LIMITS (ONE AT A RATE OF):	5.0	00 CU. YD	S
		0,0		<u> </u>

2,500 SQ. FT./ LIFT (MIN. OF 3 PER LIFT)

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TROPICAL TEXAS BEHAVIORAL HEALTH HARLINGEN, TX
PROJECT NUMBER 18166 DATE August 20, 2018
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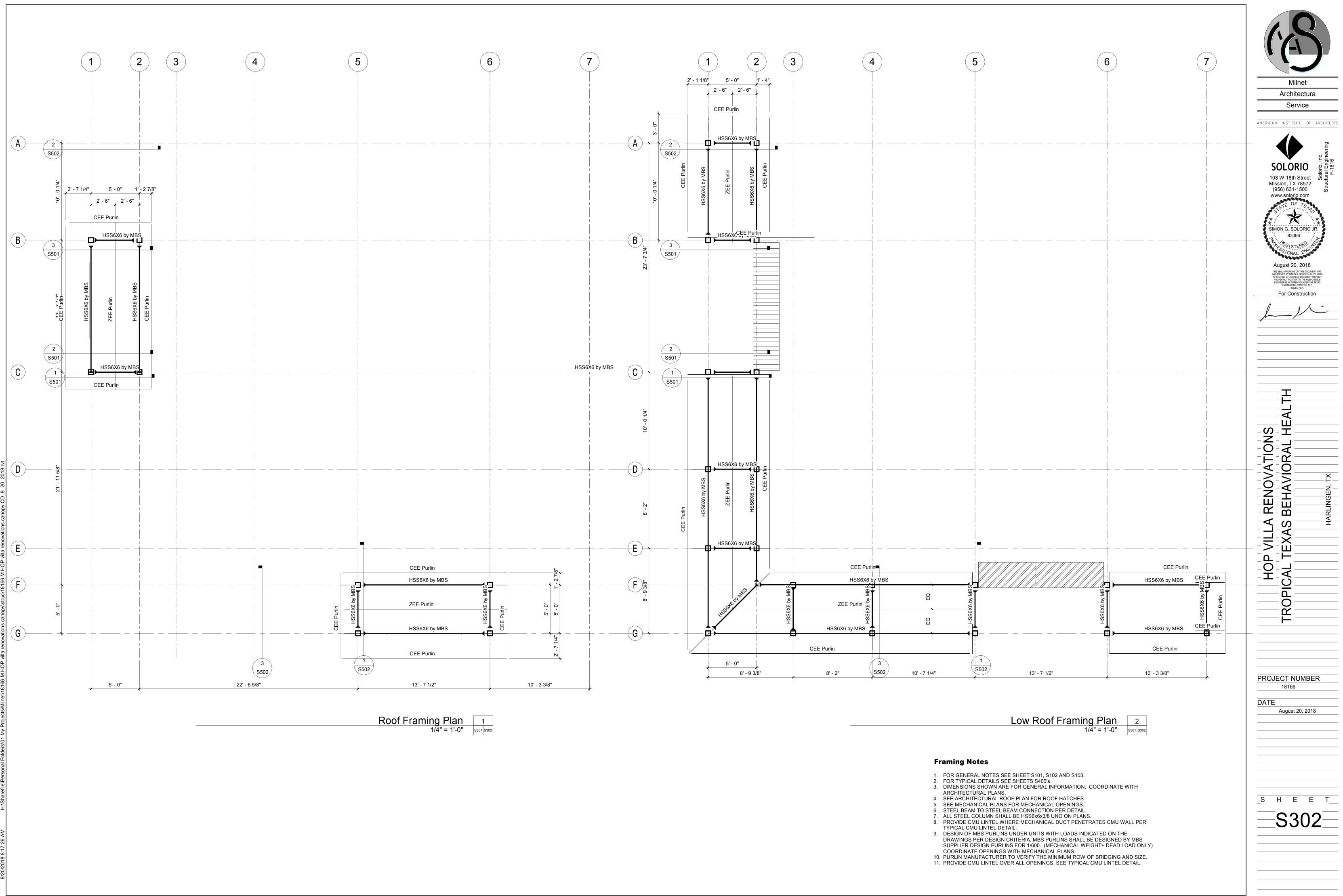
 Low Framing Plan
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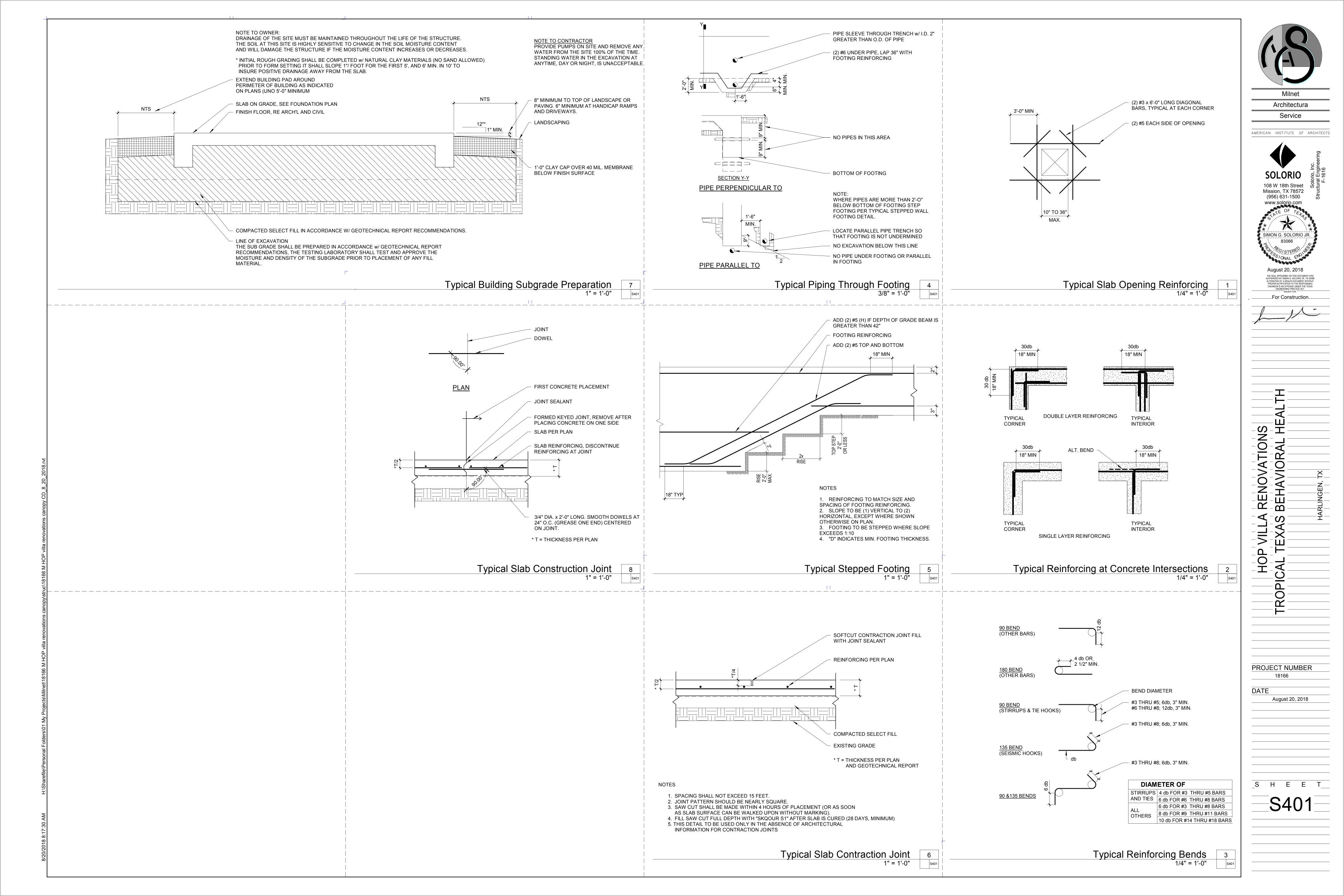
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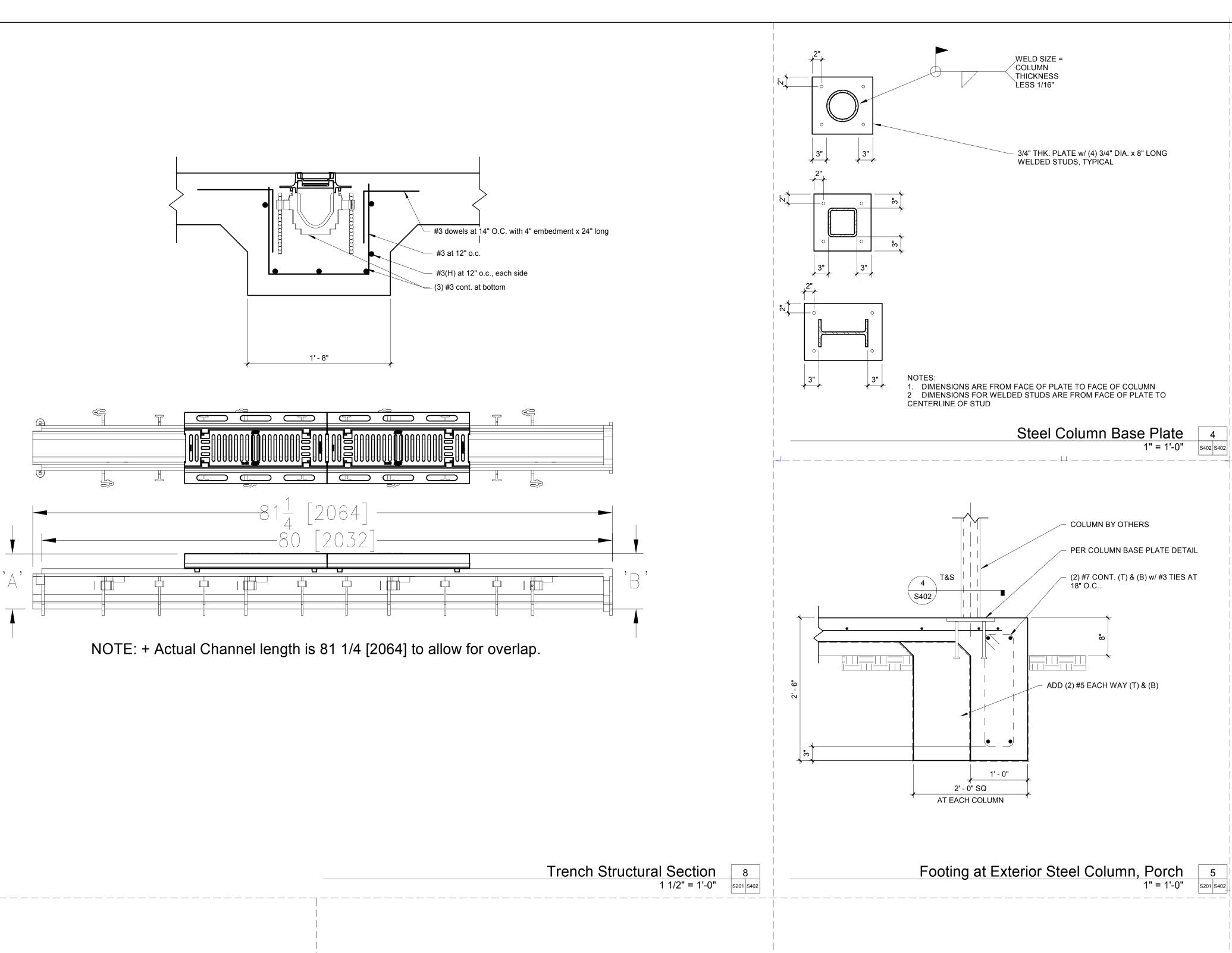
Framing Notes

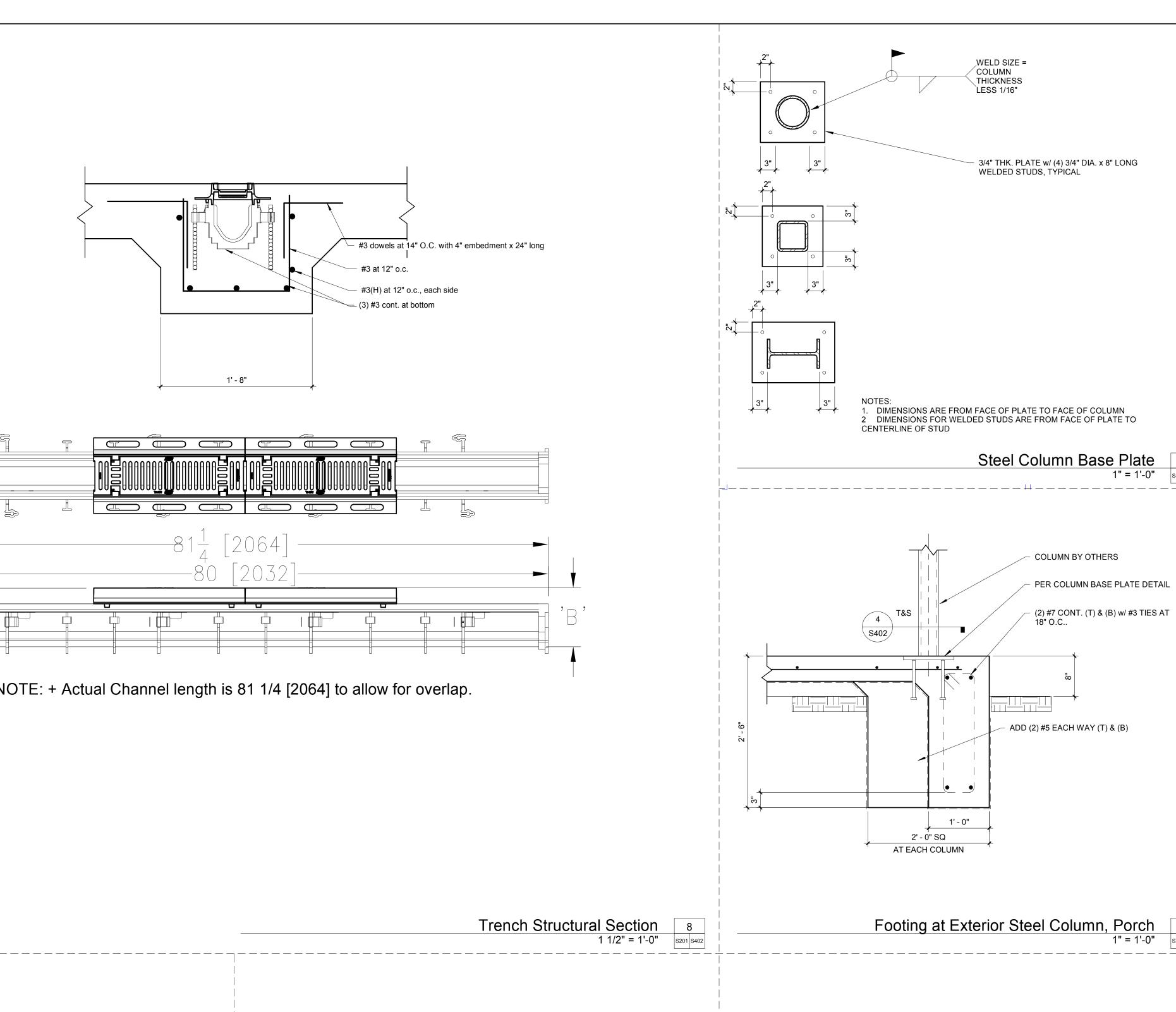
- FOR GENERAL NOTES SEE SHEET S101, S102 AND S103.
 FOR TYPICAL DETAILS SEE SHEETS S400's.
- 3. DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION. COORDINATE WITH ARCHITECTURAL PLANS.4. SEE ARCHITECTURAL ROOF PLAN FOR ROOF HATCHES.
- 5. SEE MECHANICAL PLANS FOR MECHANICAL OPENINGS.
- STEEL BEAM TO STEEL BEAM CONNECTION PER DETAIL.
 ALL STEEL COLUMN SHALL BE HSS6x6x3/8 UNO ON PLANS.
- 8. PROVIDE CMU LINTEL WHERE MECHANICAL DUCT PENETRATES CMU WALL PER TYPICAL CMU LINTEL DETAIL.
- DESIGN OF MBS PURLINS UNDER UNITS WITH LOADS INDICATED ON THE DRAWINGS PER DESIGN CRITERIA. MBS PURLINS SHALL BE DESIGNED BY MBS SUPPLIER DESIGN PURLINS FOR 1/600. (MECHANICAL WEIGHT+ DEAD LOAD ONLY) COORDINATE OPENINGS WITH MECHANICAL PLANS.
- 10. PURLIN MANUFACTURER TO VERIFY THE MINIMUM ROW OF BRIDGING AND SIZE. 11. PROVIDE CMU LINTEL OVER ALL OPENINGS, SEE TYPICAL CMU LINTEL DETAIL.

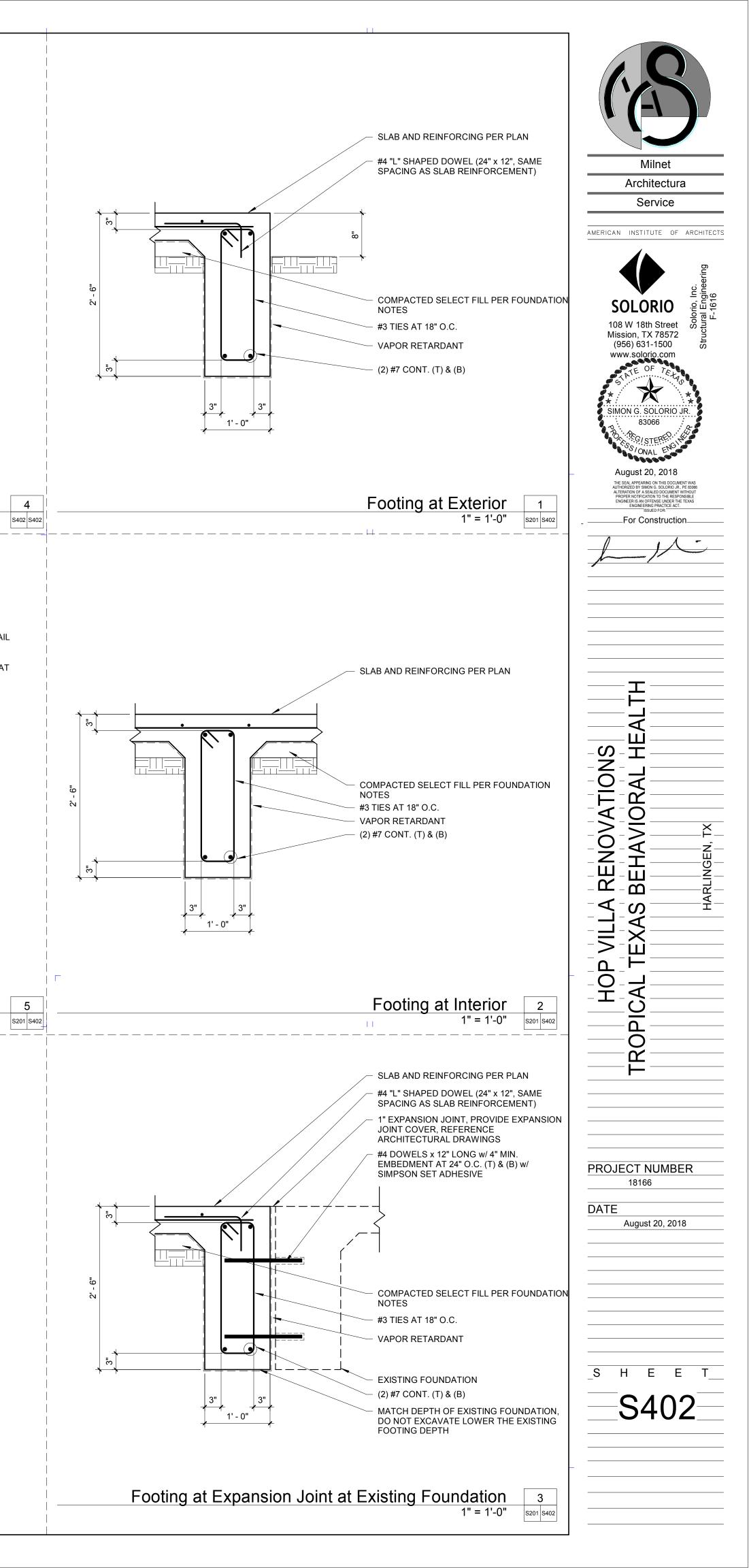
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ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEERI IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. ISSUED FOR:
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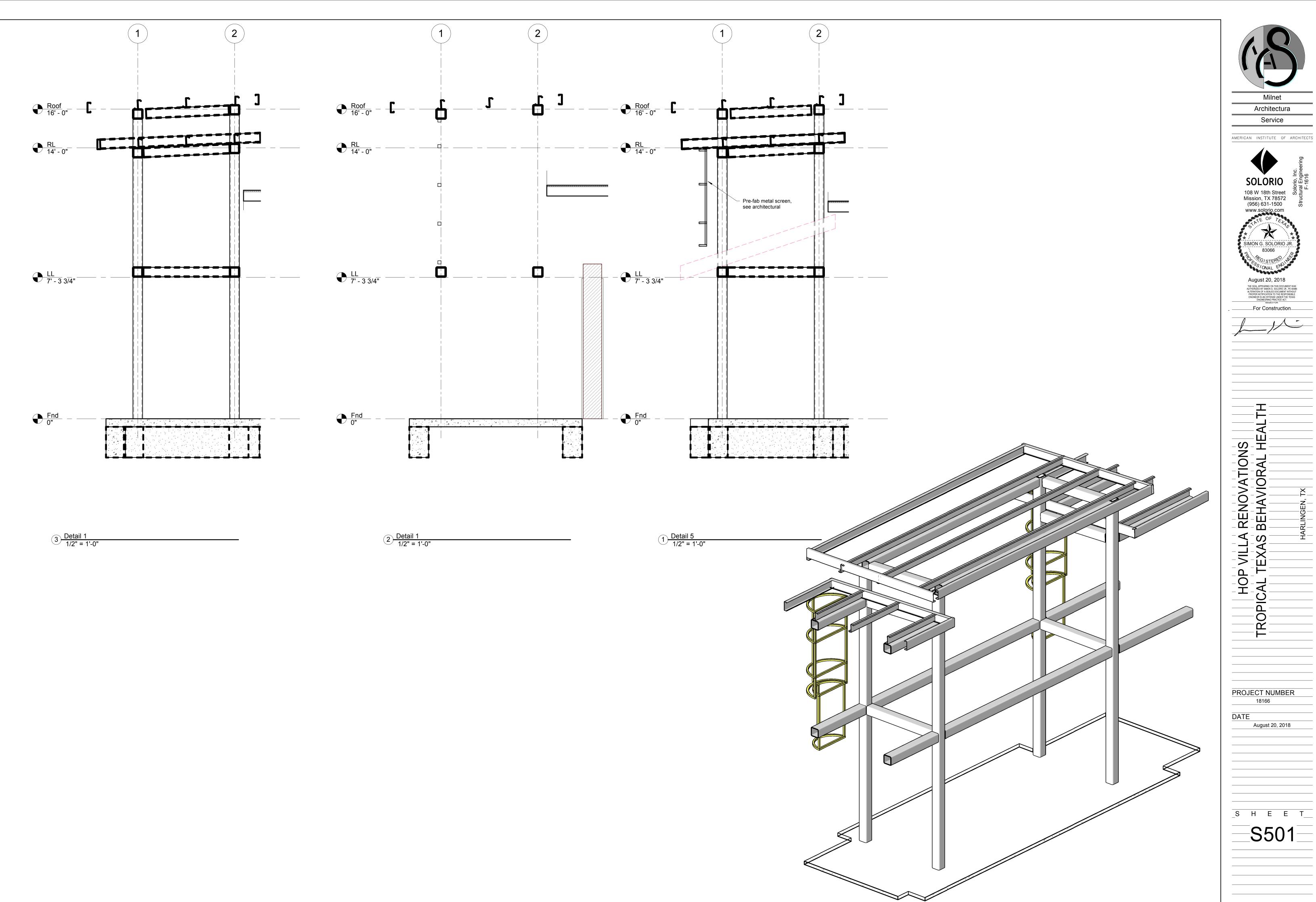




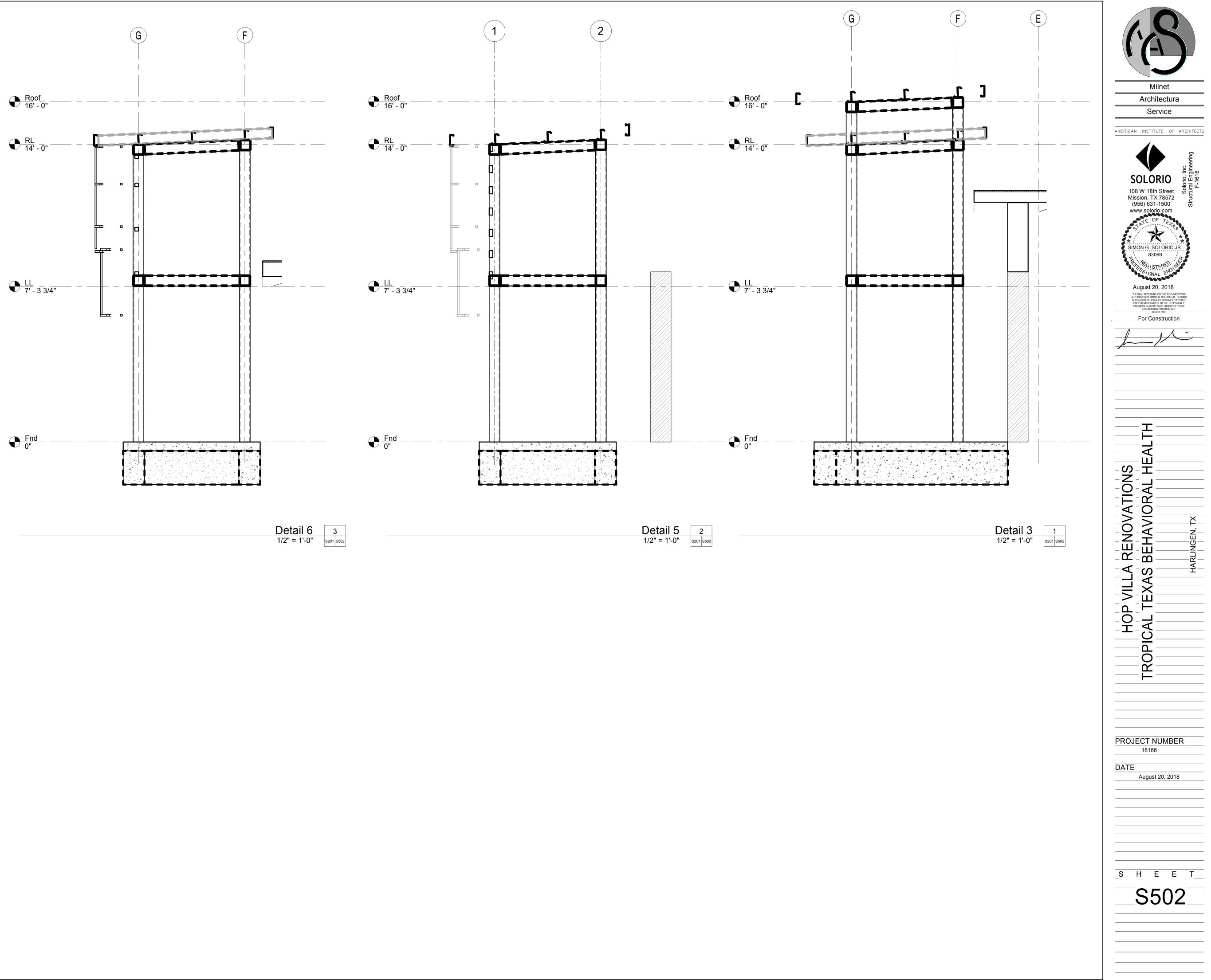


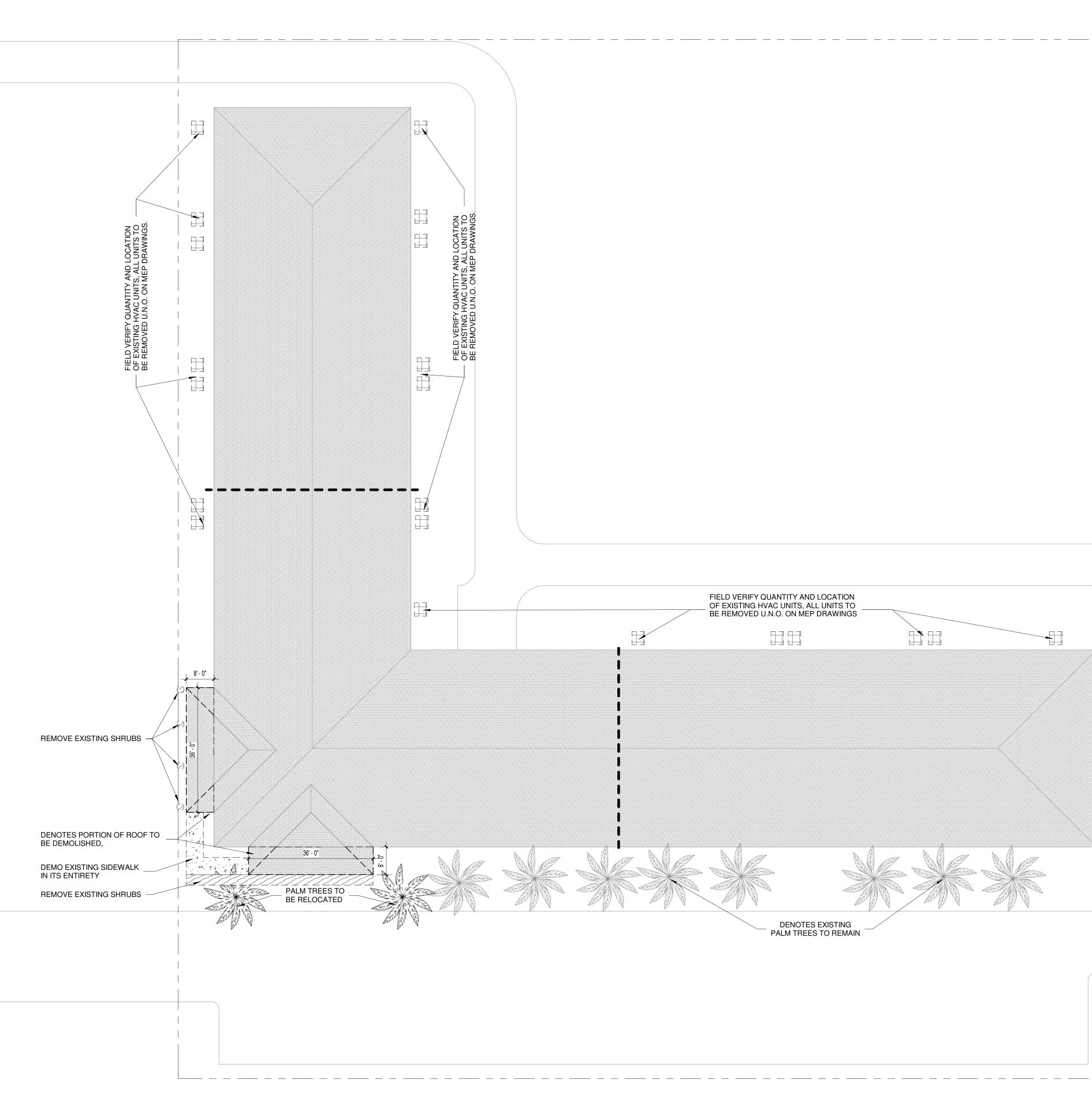












DEMOLITION GENERAL NOTES

1. GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT, ANY DISCREPENCIES OR AMBIGUOUS ITEMS MUST BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING OR COMMENCING WORK FOR CLARIFICATION

2. REFER TO CIVIL, STRUCTURAL, & MEP DRAWINGS FOR ADDITONAL DEMOLITION AND ALTERATION NOTES

3. THE OWNER HAS FIRST RIGHT OF SALVAGE OF ALL FIXTURES, EQUIPMENT, & BUILDING MATEIRALS REMOVED AS PART OF THIS CONTRACT, AND SHALL NOT BE REUSED IN THE NEW CONSTRUCTION UNLESS OTHERWISE NOTED OR DIRECTED IN WRITING, REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH FEDERAL, STATE, & LOCAL REGULATIONS

4. FIELD VERIFY LOCATIONS OF ALL EXISTING EXTERIOR PUBLIC ADDRESS SPEAKERS, INTERCOM SPEAKERS, PLUGS, SWITCHES, HOSE BIBS, LIGHTS AND CONTROLS PRIOR TO DEMOLITION, THESE SYSTEMS MUST BE PUT BACK IN ORIGINAL AND FUNCTIONING CONDITION AFTER NEW CONSTRUCTION IS COMPLETE, REPLACE, PATCH, OR REPAIR ANY DAMAGED EXISTING COMPONENTS OR SYSTEMS, WHICH ARE INTERUPTED OR DISTURBED

5. STURCTURAL INTEGRITY: PROVIDE SUPPORT FOR THE EXISTING STRUCTURE TO REMAIN PRIOR TO PERFORMING ANY ALTERATION THERETO

6. STRUCTRUAL INTEGRITY: UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, NEW OPENINGS CUT INTO EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, SHALL RECEIVE LOOSE LINTELS WITH 8" BEARING AS A MINIMUM, REFER TO STRUCTURAL DRAWINGS AND NOTES FOR ADDITIONAL REQUIREMNTS

7. CUTTING & PATCHING: PROVIDE MATERIALS FOR CUTTING & PATCHING WHICH WILL RESULT IN EQUAL OR BETTER WORK THAN THAT BEING CUT OR PATCHED

8. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BE REMOVED CAREFULLY SO AS NOT TO DAMAGE ANY EXISTING CONSTRUCTION THAT IS TO REMAIN. FLOORS, WALLS, AND CEILINGS ARE TO BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE

9. PLUMBING LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY, PATCH WALLS AND FLOOR TO MATCH EXISTING CONDITIONS, REFER TO PLUMBING DRAWINGS AND NOTES FOR ADDITIONAL REQUIREMENTS

10. WHERE EXISTING FLOOR, CEILING, OR WALL FINISHES ARE TO BE REPLACED WITH NEW FINISHES, EXISTING SURFACES SHALL BE STRIPPED CLEAN OF ALL EXISTING COVERINGS AND MADE READY TO RECEIVE NEW FINISHES, IN ACCORDACE WITH FINISH MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS INCLUDING LEVEL 4 PLUMB TOLERANCES, REFER TO ROOM FINISH SCHEDULE FOR **TYPES & LOCATIONS OF NEW FINISHES**

11. ALL FLOOR FINISHED BEING REPLACED, SHALL BE COMPLETELY REMOVED & THE FLOOR CLEANED & PROPERLY PREPARED PRIOR TO INSTALLATION OF NEW FINISH MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL FLOORS THAT RECEIVE NEW FINISHES PRIOR TO BID AND CONSTRUCTION, FLOORS SHALL BE PATCHED, FILLED, & STRIPPED AS REQUIRED TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF ALL BURRS OR ADHESIVE, AND SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL, ANY UNDER CUTTING OF DOORS REQUIRED TO ACCOMMODATE NEW FLOOR FINISHES SHALL BE RESPONSIBILITY OF THE CONTRACTOR

12. WHERE NEW CONCRETE TOPPING IS TO BE POURED OVER AN EXISTING CONCRETE SLAB, BUSH HAMMER THE EXISTING CONCRETE FINISH FOR A BETTER BOND

13. WHERE EXISTING MASONRY ABUTS NEW MASONRY, EXISTING MASONRY SHALL BE TOOTHED TO RECEIVE NEW MASONRY (U.O.N.) NEW MASONRY SHALL MATCH EXISTING COURSING, TYPICAL

14. WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED, PROVIDE A FINISHED EDGE BY TOOTHING IN NEW MASONRY TO MATCH EXISTING (U.O.N.)

15. REFER TO STRUCTURAL DRAWINGS & NOTES FOR ADDITIONAL NOTES

16. CONTRACTOR SHALL MAINTAIN BUILDING INTEGRITY, BUILDING SECURITY, AND WEATHER-TIGHT BUILDING ENVELOPE (TO INCLUDE EXTERIOR WALL(S), ROOF, EXTERIOR OPENINGS, ETC.) DURING CONSTRUCTION. CONTRACTOR TO COORDINATE BUILDING ACCESS WITH OWNER.

LEGEND

———— DENOTES ITEMS TO BE DEMOLISHED DENOTES EXISTING TO REMAIN

ARCHITECTURAL SERVICES

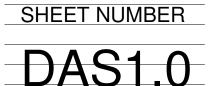


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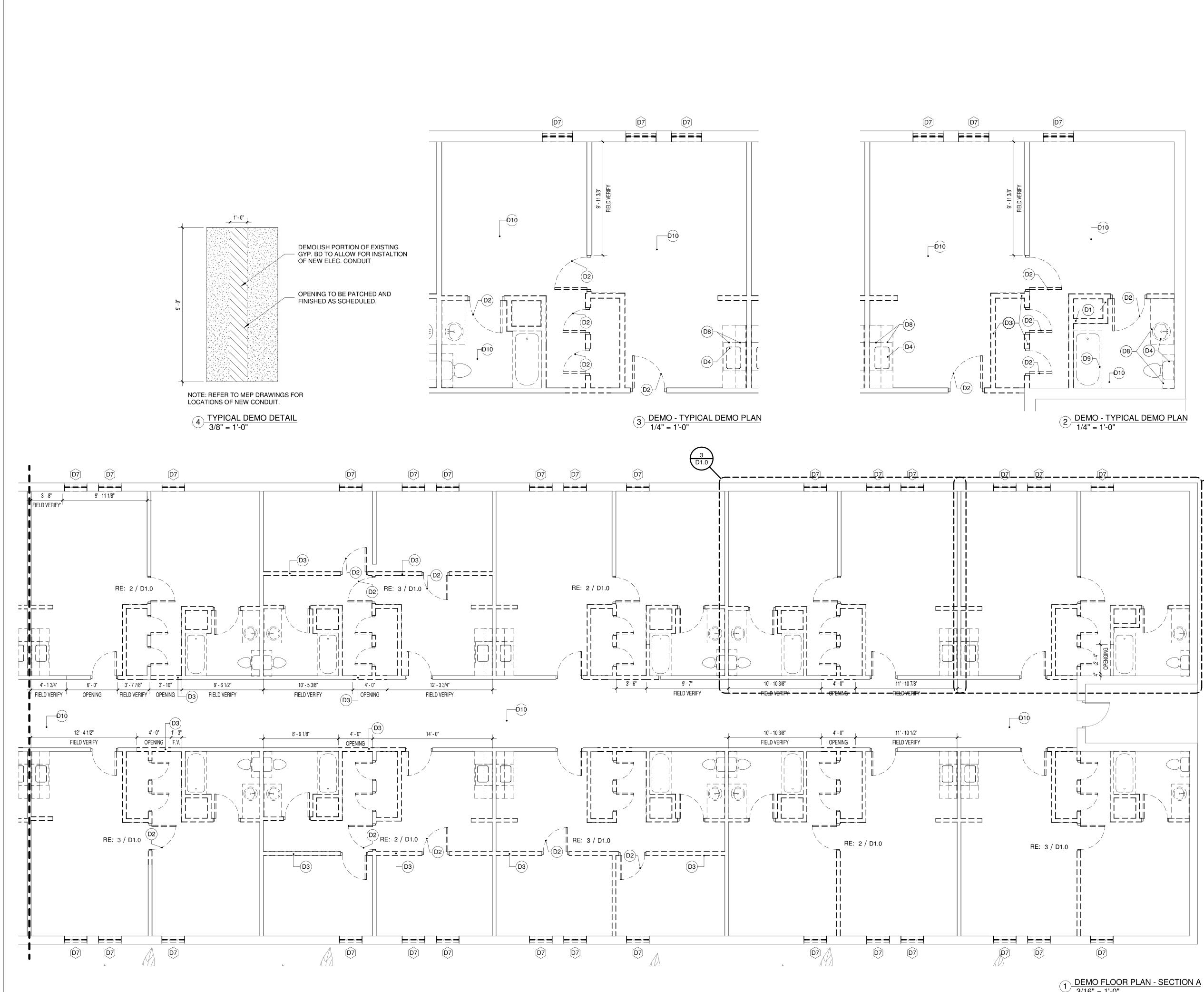
PROJECT NUMBER 217027

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(1) SITE PLAN DEMO 1/16" = 1'-0"



 $1 \frac{\text{DEMO FLOOR PLAN - SECTION A}}{3/16" = 1'-0"}$

DEMO KEYNOTE LEGEND

D1	REMOVE EXT. DOOR AND FRAME. FILL IN PER DETAIL
D2	REMOVE DOOR AND FRAME
D3	REMOVE WALL

D4 REMOVE PLUMBING FIXTURE REMOVE WINDOW

D7	REMOVE WINDOW
D8	REMOVE MILLWORK
D9	REMOVE SHOWER
D10	REMOVE FLOORING

D10 D12 REMOVE CEILING

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR REQUIREMENTS/COORDINATION PRIOR TO PERFORMING DEMOLITIONS. NEW WORK ON ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.

2. FIELD VERIFY ALL EXISTING DIMENSIONS, CONDITIONS AND LOCATIONS.

3. PROTECT EXISTING WORK TO REMAIN AS REQUIRED TO PREVENT UNNECESSARY DAMAGE DUE TO DEMOLITION.

4. COORDINATE SCHEDULING OF ALL UTILITY AND SERVICE REQUIRED BY THE WORK WITH THE CITY ENGINEER.

5. GENERAL CONTRACTOR, OR ANY OF HIS SUBCONTRACTORS, ARE NOT TO SHUT OFF ANY UTILITIES OR SERVICES.

6. REMOVE EXISTING ITEMS AS INDICATED ON PLANS. CUT AND REMOVE AS REQUIRED TO LEAVE A CLEAN EDGE ON REMAINING WORK.

7. THE OWNER, UNDER A SEPARATE CONTRACT WILL HAVE HAZARDOUS MATERIALS (ASBESTOS CONTAINING) REMOVED FROM THE BUILDING AND SITE PRIOR TO THE CONTRACTOR'S DEMOLITION OR NEW WORK IN EFFECTED AREAS. THIS WORK GENERALLY PERTAINS TO THE REMOVAL OF COMPOSITION FLOORTILE, INSULATION AT MECHANICAL PIPING, OPAQUE SPANDRELS AT WINDOWS, ETC., AS DESCRIBED IN THE ASBESTOS CONSULTANTS REPORT.

8. ALL LIGHTING TO BE REMOVED AND REPLACED, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

9. ALL ELECTRICAL OUTLETS TO BE REMOVED AND REPLACED, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

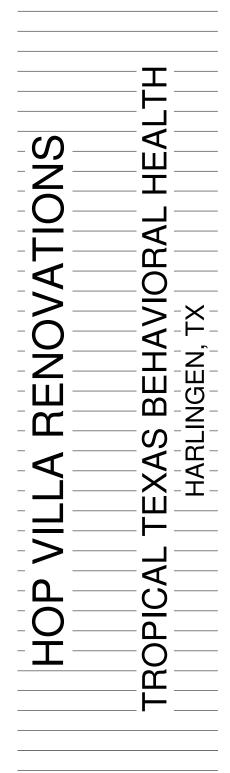
10. FEILD VERIFY LOCATIONS OF ALL NEW DOORS, WINDOWS AND OPENINGS, ENSURE THAT AN OPENING IS PROVIDED EVEN IF NOT SHOWN ON THE DEMO PLAN.

11. ALL LIGHT FIXTURES ARE TO BE REMOVED, REFER TO MEP LIGHTING PLAN FOR ADDITIONAL INFORMATION.

LEGEND

———— DENOTES ITEMS TO BE DEMOLISHED DENOTES EXISTING TO REMAIN

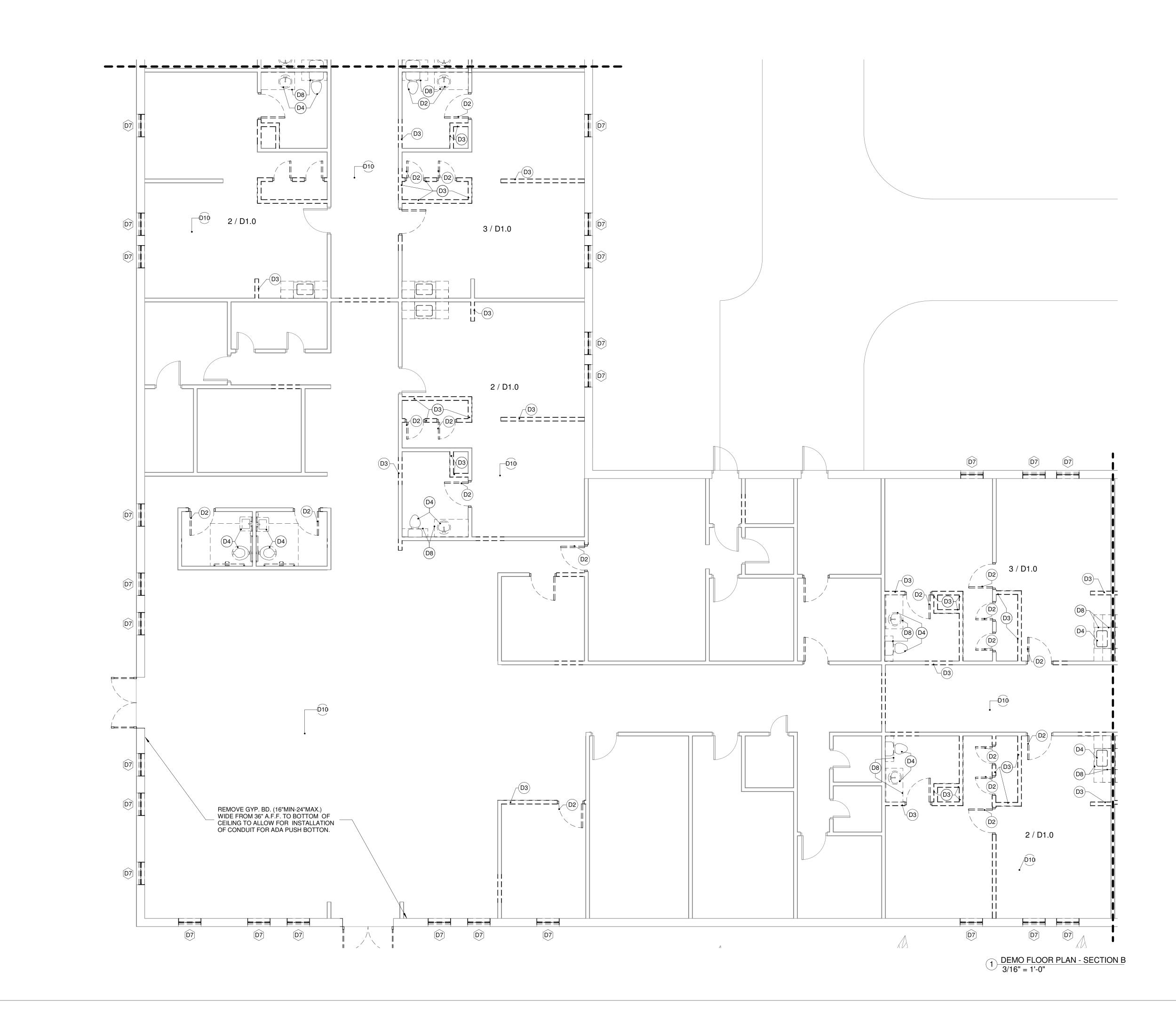




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DEMO KEYNOTE LEGEND

D1	REMOVE EXT. DOOR AND FRAME. FILL IN PER DETAIL
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GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR REQUIREMENTS/COORDINATION PRIOR TO PERFORMING DEMOLITIONS. NEW WORK ON ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.

2. FIELD VERIFY ALL EXISTING DIMENSIONS, CONDITIONS AND LOCATIONS.

3. PROTECT EXISTING WORK TO REMAIN AS REQUIRED TO PREVENT UNNECESSARY DAMAGE DUE TO DEMOLITION.

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9. ALL ELECTRICAL OUTLETS TO BE REMOVED AND REPLACED, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

10. FEILD VERIFY LOCATIONS OF ALL NEW DOORS, WINDOWS AND OPENINGS, ENSURE THAT AN OPENING IS PROVIDED EVEN IF NOT SHOWN ON THE DEMO PLAN.

11. ALL LIGHT FIXTURES ARE TO BE REMOVED, REFER TO MEP LIGHTING PLAN FOR ADDITIONAL INFORMATION.

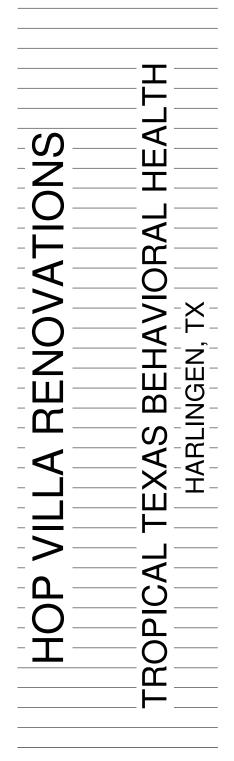
<u>LEGEND</u>

 — — — DENOTES ITEMS TO BE DEMOLISHED

 — — DENOTES EXISTING TO REMAIN



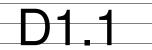


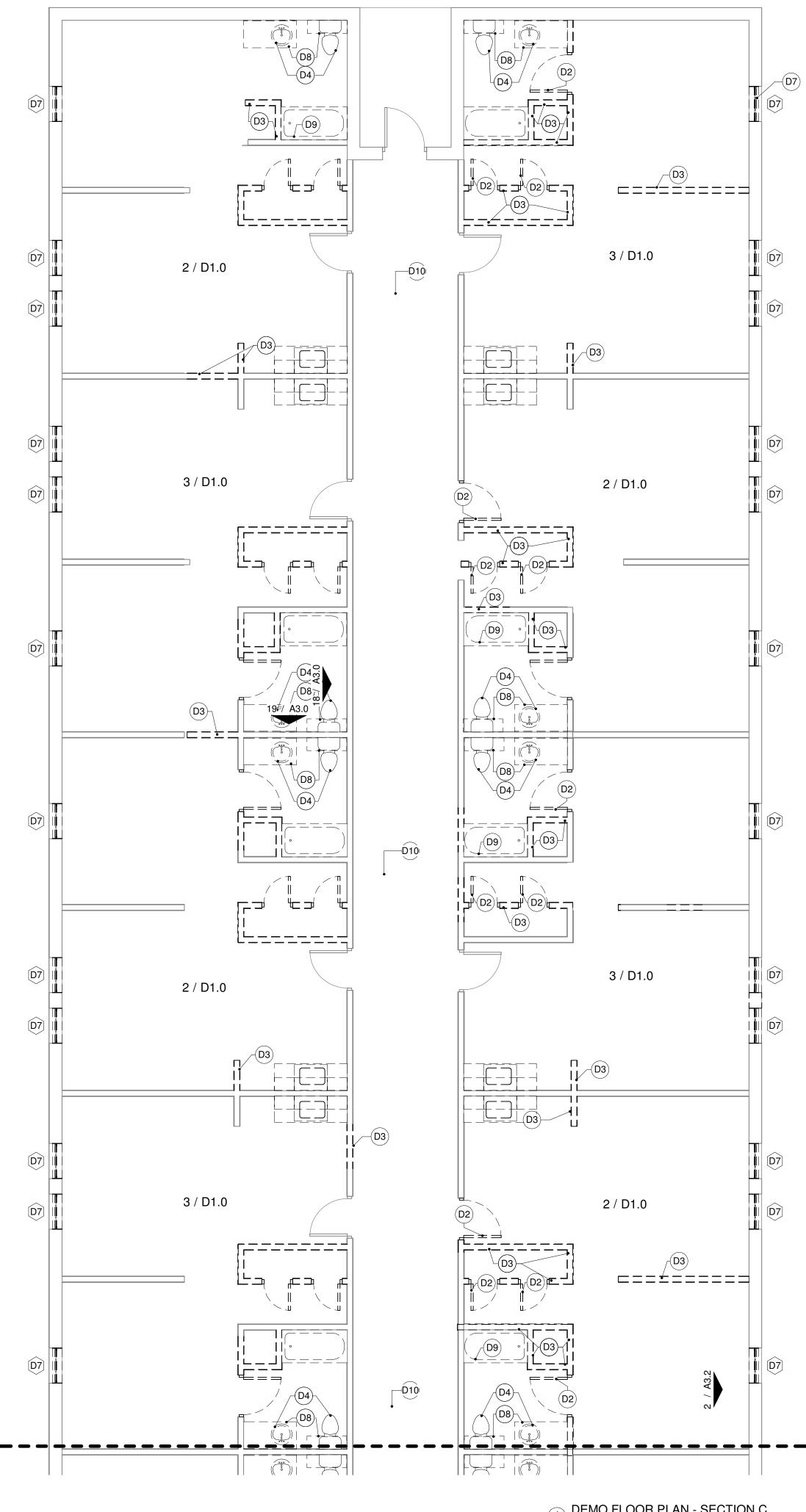


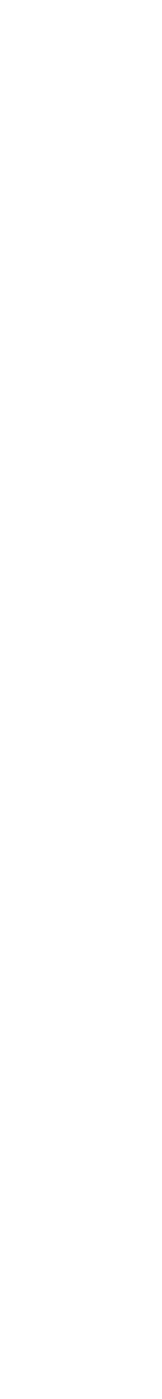
PROJECT NUMBER 217027

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ISSUE FOR SEALED PROPOSALS







 $1 \frac{\text{DEMO FLOOR PLAN - SECTION C}}{3/16" = 1'-0"}$

DEMO KEYNOTE LEGEND

D1	REMOVE EXT. DOOR AND FRAME. FILL IN PER DETAIL
D2	REMOVE DOOR AND FRAME
D3	REMOVE WALL
D4	REMOVE PLUMBING FIXTURE
D7	REMOVE WINDOW
D8	REMOVE MILLWORK
D9	REMOVE SHOWER
D10	REMOVE FLOORING
D12	REMOVE CEILING

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR REQUIREMENTS/COORDINATION PRIOR TO PERFORMING DEMOLITIONS. NEW WORK ON ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.

2. FIELD VERIFY ALL EXISTING DIMENSIONS, CONDITIONS AND LOCATIONS.

3. PROTECT EXISTING WORK TO REMAIN AS REQUIRED TO PREVENT UNNECESSARY DAMAGE DUE TO DEMOLITION.

4. COORDINATE SCHEDULING OF ALL UTILITY AND SERVICE REQUIRED BY THE WORK WITH THE CITY ENGINEER.

5. GENERAL CONTRACTOR, OR ANY OF HIS SUBCONTRACTORS, ARE NOT TO SHUT OFF ANY UTILITIES OR SERVICES.

6. REMOVE EXISTING ITEMS AS INDICATED ON PLANS. CUT AND REMOVE AS REQUIRED TO LEAVE A CLEAN EDGE ON REMAINING WORK.

7. THE OWNER, UNDER A SEPARATE CONTRACT WILL HAVE HAZARDOUS MATERIALS (ASBESTOS CONTAINING) REMOVED FROM THE BUILDING AND SITE PRIOR TO THE CONTRACTOR'S DEMOLITION OR NEW WORK IN EFFECTED AREAS. THIS WORK GENERALLY PERTAINS TO THE REMOVAL OF COMPOSITION FLOORTILE, INSULATION AT MECHANICAL PIPING, OPAQUE SPANDRELS AT WINDOWS, ETC., AS DESCRIBED IN THE ASBESTOS CONSULTANTS REPORT.

8. ALL LIGHTING TO BE REMOVED AND REPLACED, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

9. ALL ELECTRICAL OUTLETS TO BE REMOVED AND REPLACED, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

10. FEILD VERIFY LOCATIONS OF ALL NEW DOORS, WINDOWS AND OPENINGS, ENSURE THAT AN OPENING IS PROVIDED EVEN IF NOT SHOWN ON THE DEMO PLAN.

11. ALL LIGHT FIXTURES ARE TO BE REMOVED, REFER TO MEP LIGHTING PLAN FOR ADDITIONAL INFORMATION.

<u>LEGEND</u>

 — — — DENOTES ITEMS TO BE DEMOLISHED

 — — DENOTES EXISTING TO REMAIN



SERVICES



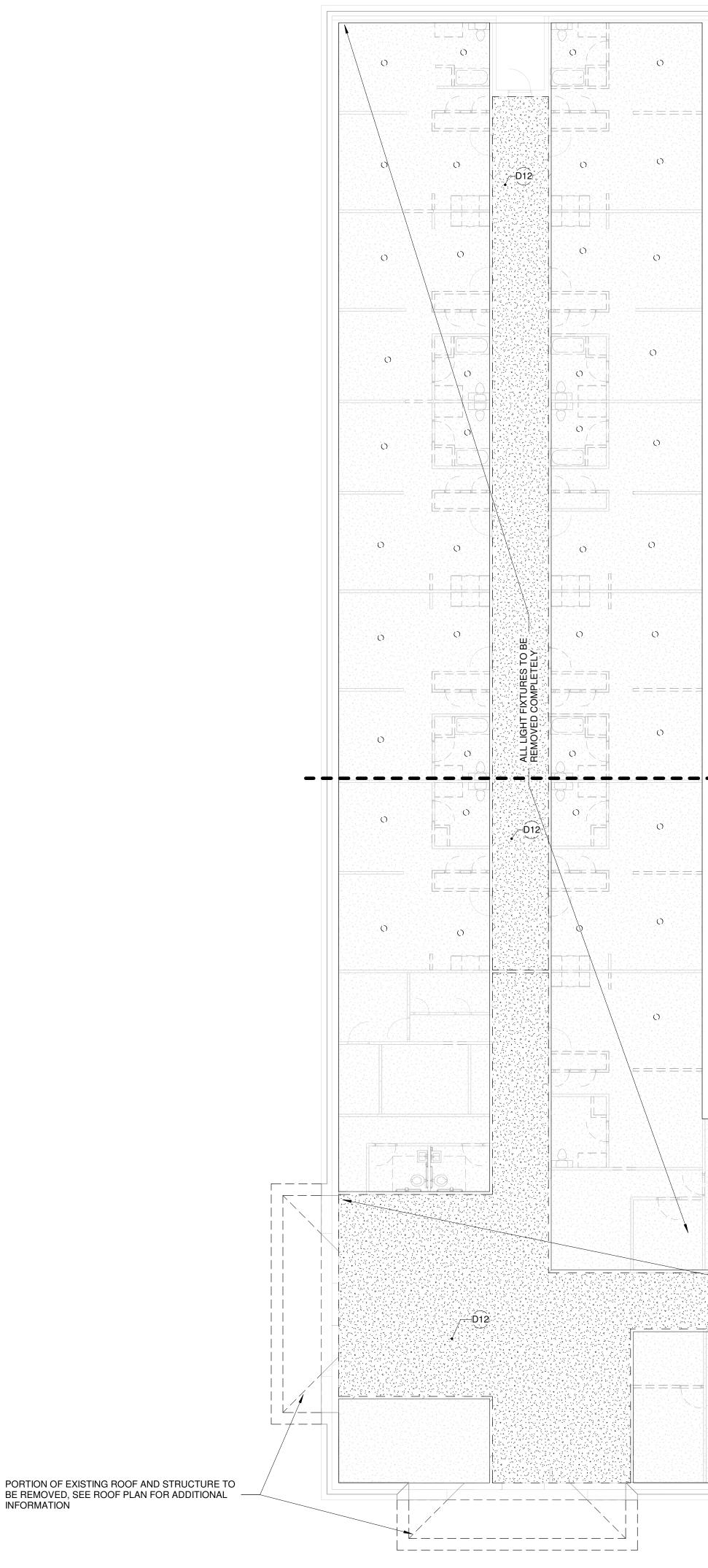


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BE REMOVED, SEE ROOF PLAN FOR ADDITIONAL INFORMATION

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DEMO KEYNOTE LEGEND

- REMOVE EXT. DOOR AND FRAME. FILL IN PER D1 DETAIL
- D2 REMOVE DOOR AND FRAME D3 REMOVE WALL
- D4 REMOVE PLUMBING FIXTURE D7 REMOVE WINDOW
- **REMOVE MILLWORK** D8
- D9 REMOVE SHOWER REMOVE FLOORING D10
- D12 REMOVE CEILING

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR REQUIREMENTS/COORDINATION PRIOR TO PERFORMING DEMOLITIONS. NEW WORK ON ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.

2. FIELD VERIFY ALL EXISTING DIMENSIONS, CONDITIONS AND LOCATIONS.

3. PROTECT EXISTING WORK TO REMAIN AS REQUIRED TO PREVENT UNNECESSARY DAMAGE DUE TO DEMOLITION.

4. COORDINATE SCHEDULING OF ALL UTILITY AND SERVICE REQUIRED BY THE WORK WITH THE CITY ENGINEER.

5. GENERAL CONTRACTOR, OR ANY OF HIS SUBCONTRACTORS, ARE NOT TO SHUT OFF ANY UTILITIES OR SERVICES.

6. REMOVE EXISTING ITEMS AS INDICATED ON PLANS. CUT AND REMOVE AS REQUIRED TO LEAVE A CLEAN EDGE ON REMAINING WORK.

7. THE OWNER, UNDER A SEPARATE CONTRACT WILL HAVE HAZARDOUS MATERIALS (ASBESTOS CONTAINING) REMOVED FROM THE BUILDING AND SITE PRIOR TO THE CONTRACTOR'S DEMOLITION OR NEW WORK IN EFFECTED AREAS. THIS WORK GENERALLY PERTAINS TO THE REMOVAL OF COMPOSITION FLOORTILE, INSULATION AT MECHANICAL PIPING, OPAQUE SPANDRELS AT WINDOWS, ETC., AS DESCRIBED IN THE ASBESTOS CONSULTANTS REPORT.

8. ALL LIGHTING TO BE REMOVED AND REPLACED, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

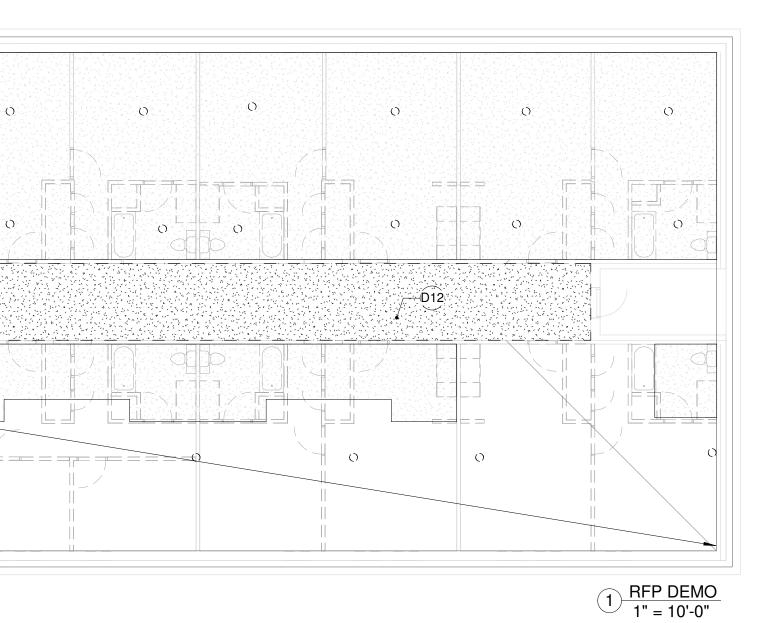
9. ALL ELECTRICAL OUTLETS TO BE REMOVED AND REPLACED, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

10. FEILD VERIFY LOCATIONS OF ALL NEW DOORS, WINDOWS AND OPENINGS, ENSURE THAT AN OPENING IS PROVIDED EVEN IF NOT SHOWN ON THE DEMO PLAN.

11. ALL LIGHT FIXTURES ARE TO BE REMOVED, REFER TO MEP LIGHTING PLAN FOR ADDITIONAL INFORMATION.

LEGEND

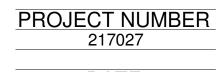
— — — DENOTES ITEMS TO BE DEMOLISHED DENOTES EXISTING TO REMAIN



MILNET ARCHITECTURAL SERVICES







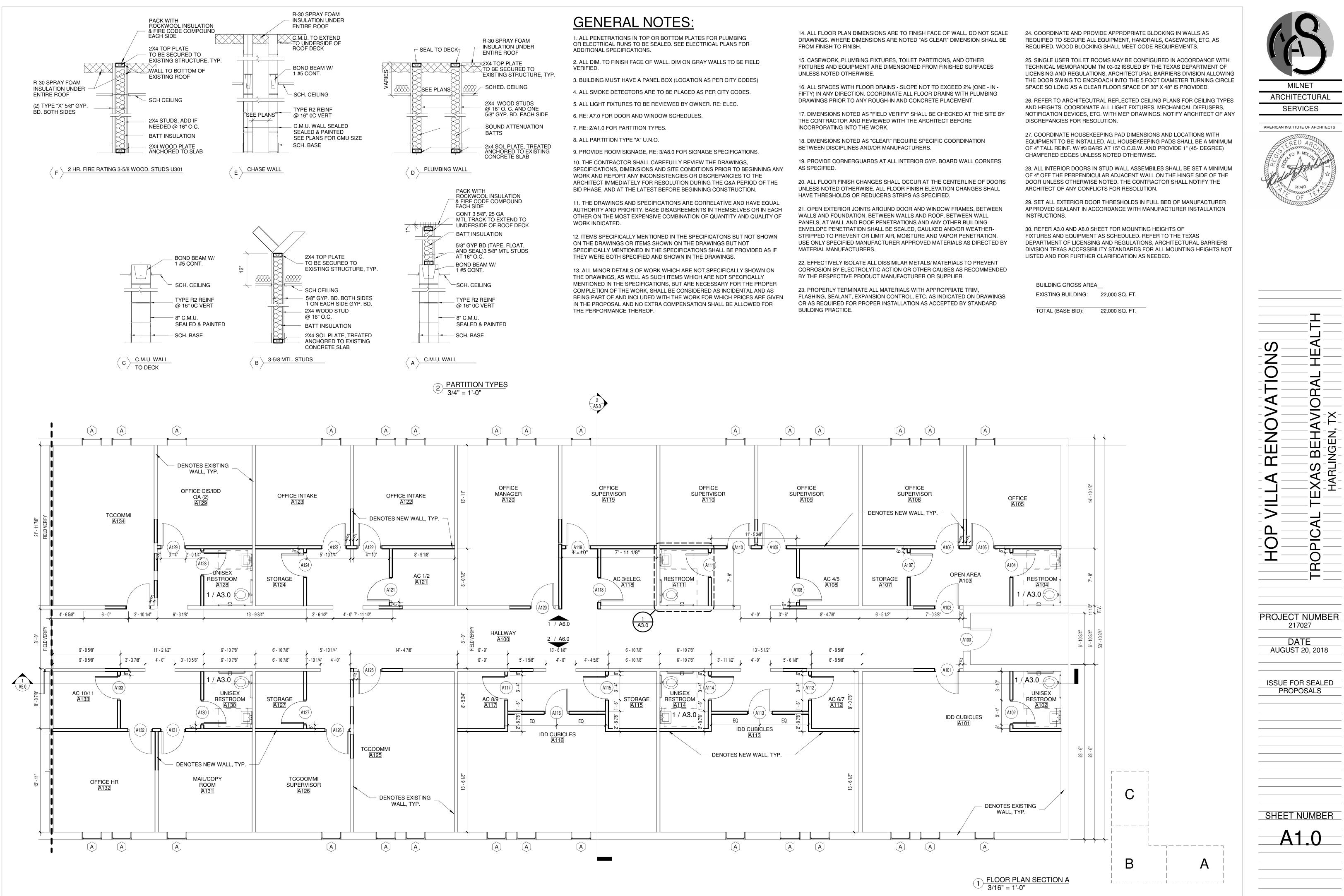
DATE AUGUST 20, 2018

ISSUE FOR SEALED PROPOSALS

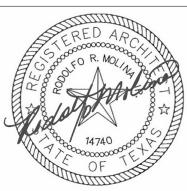
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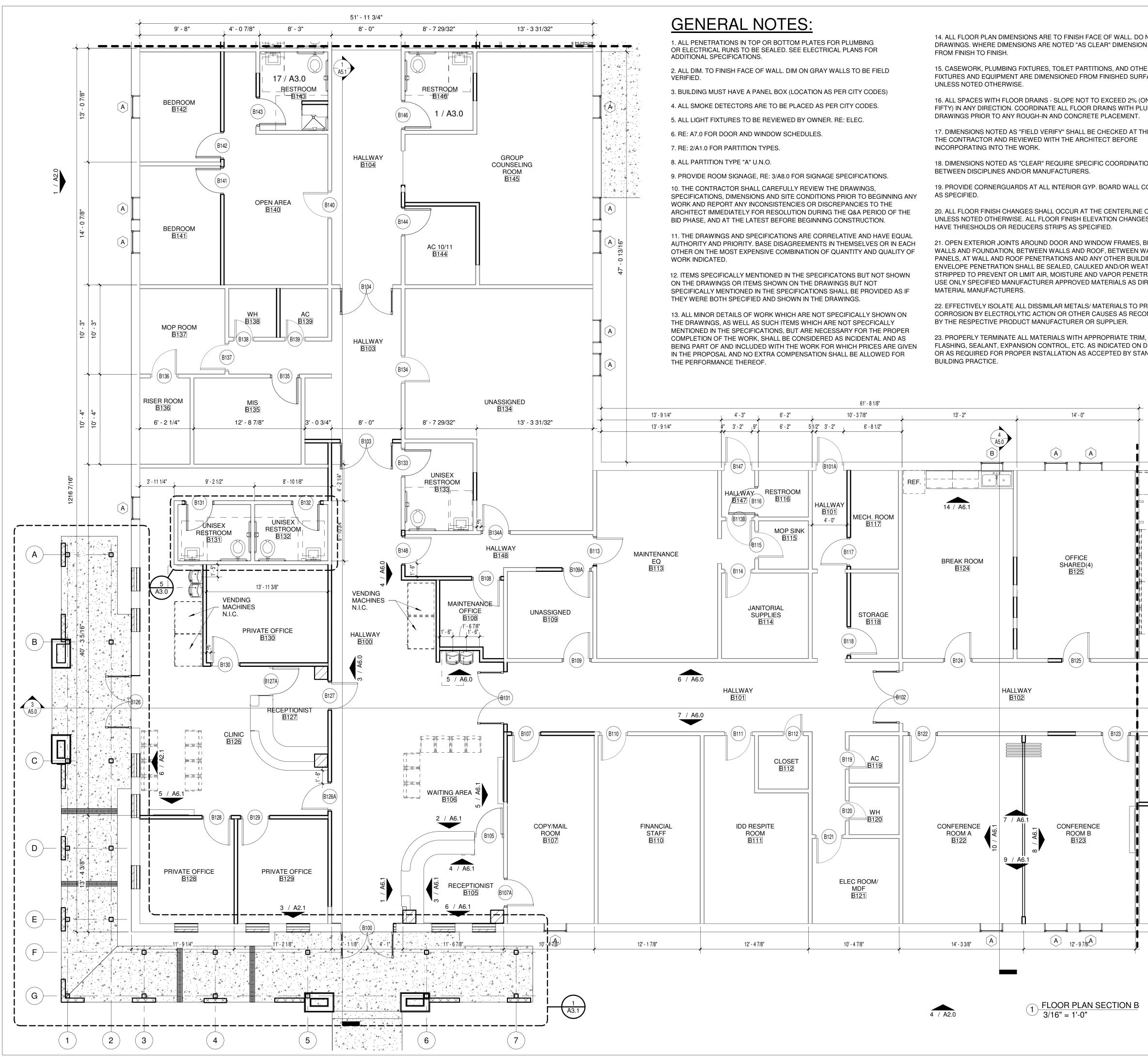
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14. ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE

15. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES

16. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN -FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING

17. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY

18. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION

19. PROVIDE CORNERGUARDS AT ALL INTERIOR GYP. BOARD WALL CORNERS

20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL

21. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR. MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY

22. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED

FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD

(A)

24. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.

25. SINGLE USER TOILET ROOMS MAY BE CONFIGURED IN ACCORDANCE WITH TECHNICAL MEMORANDUM TM 03-02 ISSUED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION ALLOWING THE DOOR SWING TO ENCROACH INTO THE 5 FOOT DIAMETER TURNING CIRCLE SPACE SO LONG AS A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED.

26. REFER TO ARCHITECUTRAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

27. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.

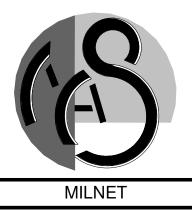
28. ALL INTERIOR DOORS IN STUD WALL ASSEMBILES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.

29. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

30. REFER A3.0 AND A8.0 SHEET FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

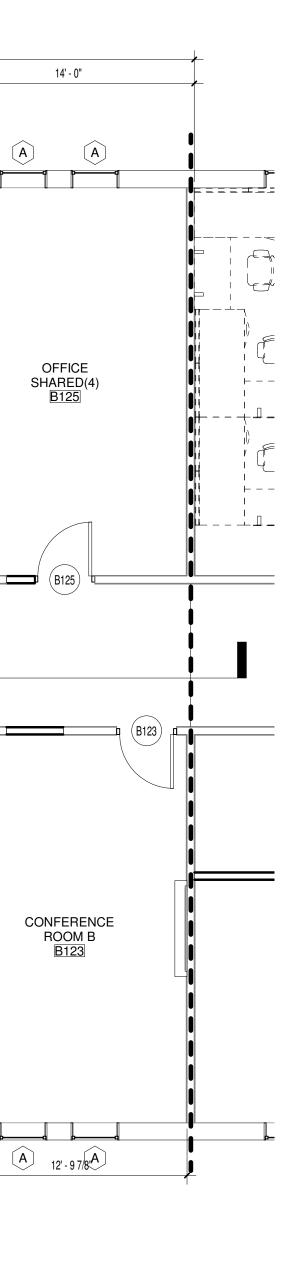
BUILDING GROSS AREA EXISTING BUILDING: 22,000 SQ. FT.

TOTAL (BASE BID): 22,000 SQ. FT.

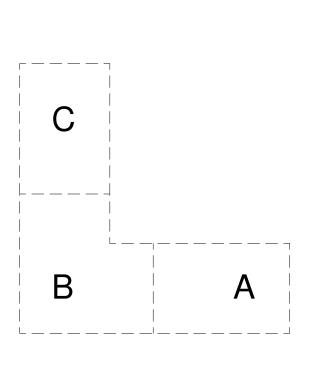


ARCHITECTURAL SERVICES

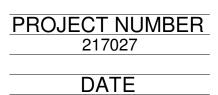




 $1 \frac{\text{FLOOR PLAN SECTION B}}{3/16" = 1'-0"}$

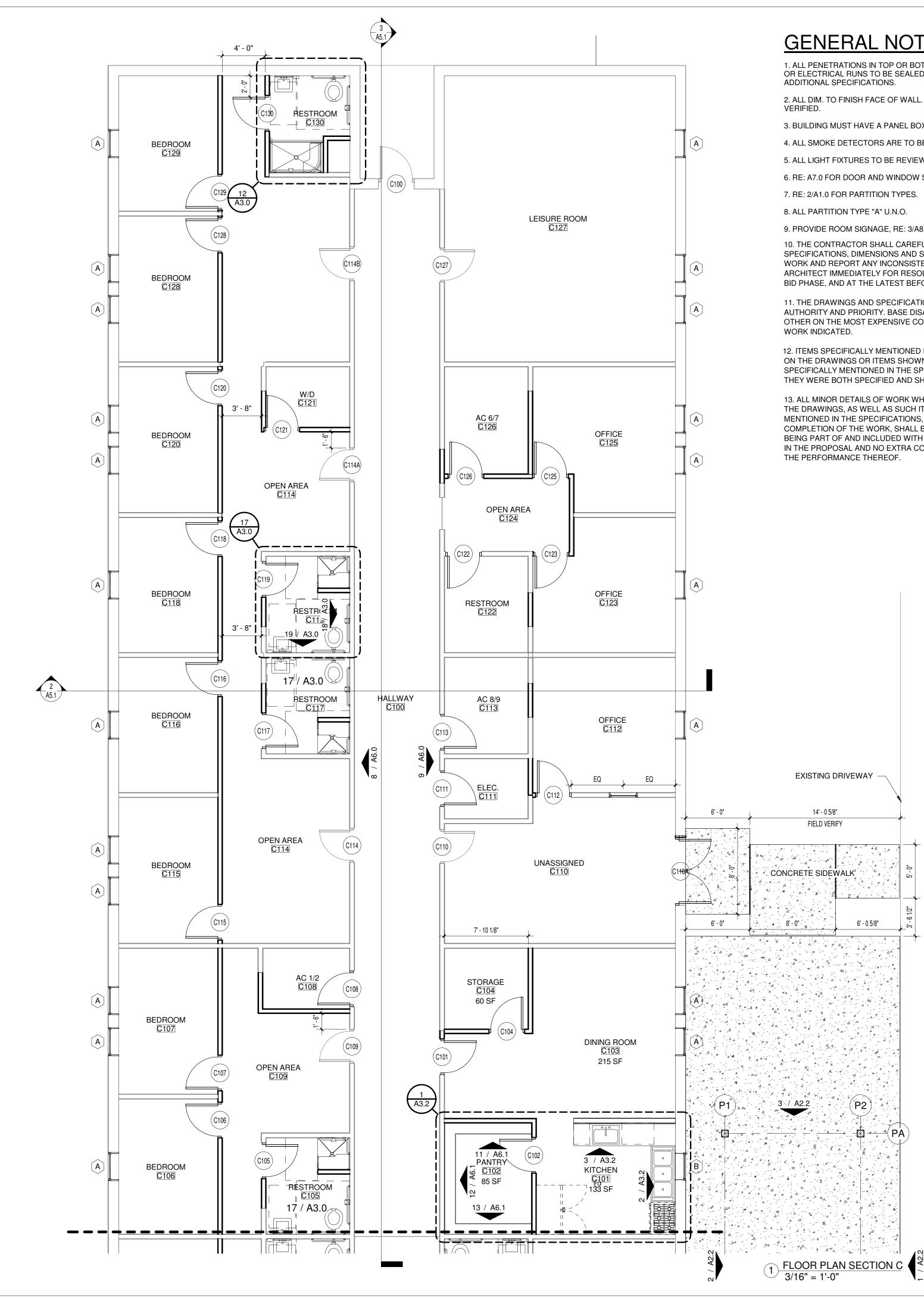


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AUGUST 20, 2018

ISSUE FOR SEALED PROPOSALS



GENERAL NOTES:

1. ALL PENETRATIONS IN TOP OR BOTTOM PLATES FOR PLUMBING OR ELECTRICAL RUNS TO BE SEALED. SEE ELECTRICAL PLANS FOR

2. ALL DIM. TO FINISH FACE OF WALL. DIM ON GRAY WALLS TO BE FIELD

- 3. BUILDING MUST HAVE A PANEL BOX (LOCATION AS PER CITY CODES)
- 4. ALL SMOKE DETECTORS ARE TO BE PLACED AS PER CITY CODES.
- 5. ALL LIGHT FIXTURES TO BE REVIEWED BY OWNER. RE: ELEC.
- 6. RE: A7.0 FOR DOOR AND WINDOW SCHEDULES.

9. PROVIDE ROOM SIGNAGE, RE: 3/A8.0 FOR SIGNAGE SPECIFICATIONS.

10. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION DURING THE Q&A PERIOD OF THE BID PHASE, AND AT THE LATEST BEFORE BEGINNING CONSTRUCTION.

11. THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF

12. ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.

13. ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR

14. ALL FLOOR PLAN DIMENSIONS ARE TO FINISH FACE OF WALL. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.

15. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.

16. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN -FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.

17. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.

18. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.

19. PROVIDE CORNERGUARDS AT ALL INTERIOR GYP. BOARD WALL CORNERS AS SPECIFIED.

20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE, ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.

21. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.

22. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.

23. PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.

24. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.

25. SINGLE USER TOILET ROOMS MAY BE CONFIGURED IN ACCORDANCE WITH TECHNICAL MEMORANDUM TM 03-02 ISSUED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION ALLOWING THE DOOR SWING TO ENCROACH INTO THE 5 FOOT DIAMETER TURNING CIRCLE SPACE SO LONG AS A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED.

26. REFER TO ARCHITECUTRAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

27. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.

28. ALL INTERIOR DOORS IN STUD WALL ASSEMBILES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.

29. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

30. REFER A3.0 AND A8.0 SHEET FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

BUILDING GROSS AREA EXISTING BUILDING: 22,000 SQ. FT.

TOTAL (BASE BID): 22,000 SQ. FT.



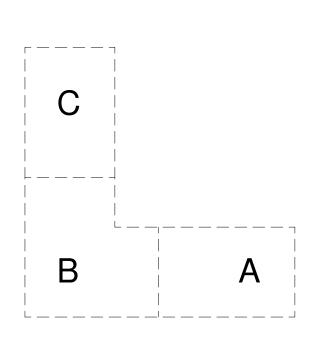
ARCHITECTURAL SERVICES

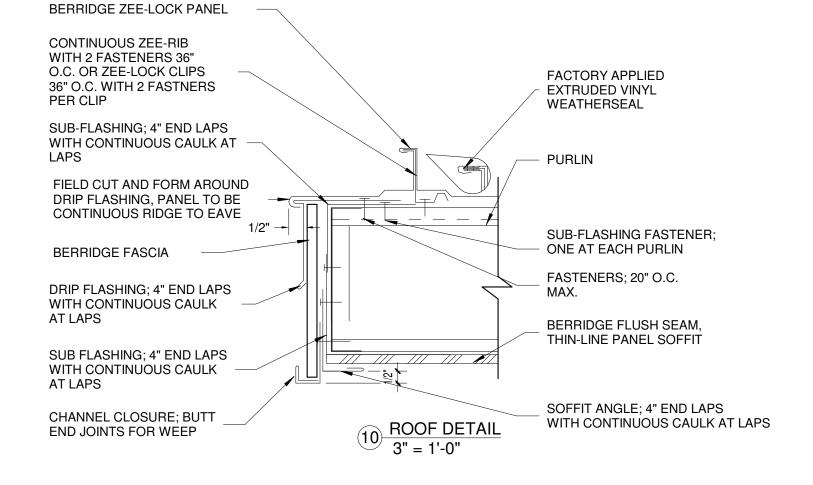


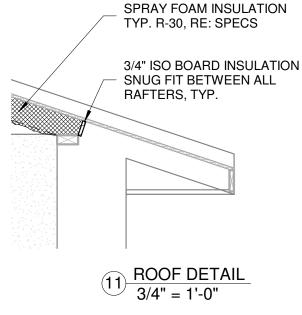
PROJECT NUMBER	
217027	

DATE AUGUST 20, 2018

ISSUE FOR SEALED PROPOSALS







BERRIDGE FLUSH SEAM, THIN-LINE PANEL

CHANNEL CLOSURE; BUTT _

SOFFIT ANGLE; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

WITH CONTINUOUS CAULK AT LAPS

EAVE FLASHING; 4" END LAPS

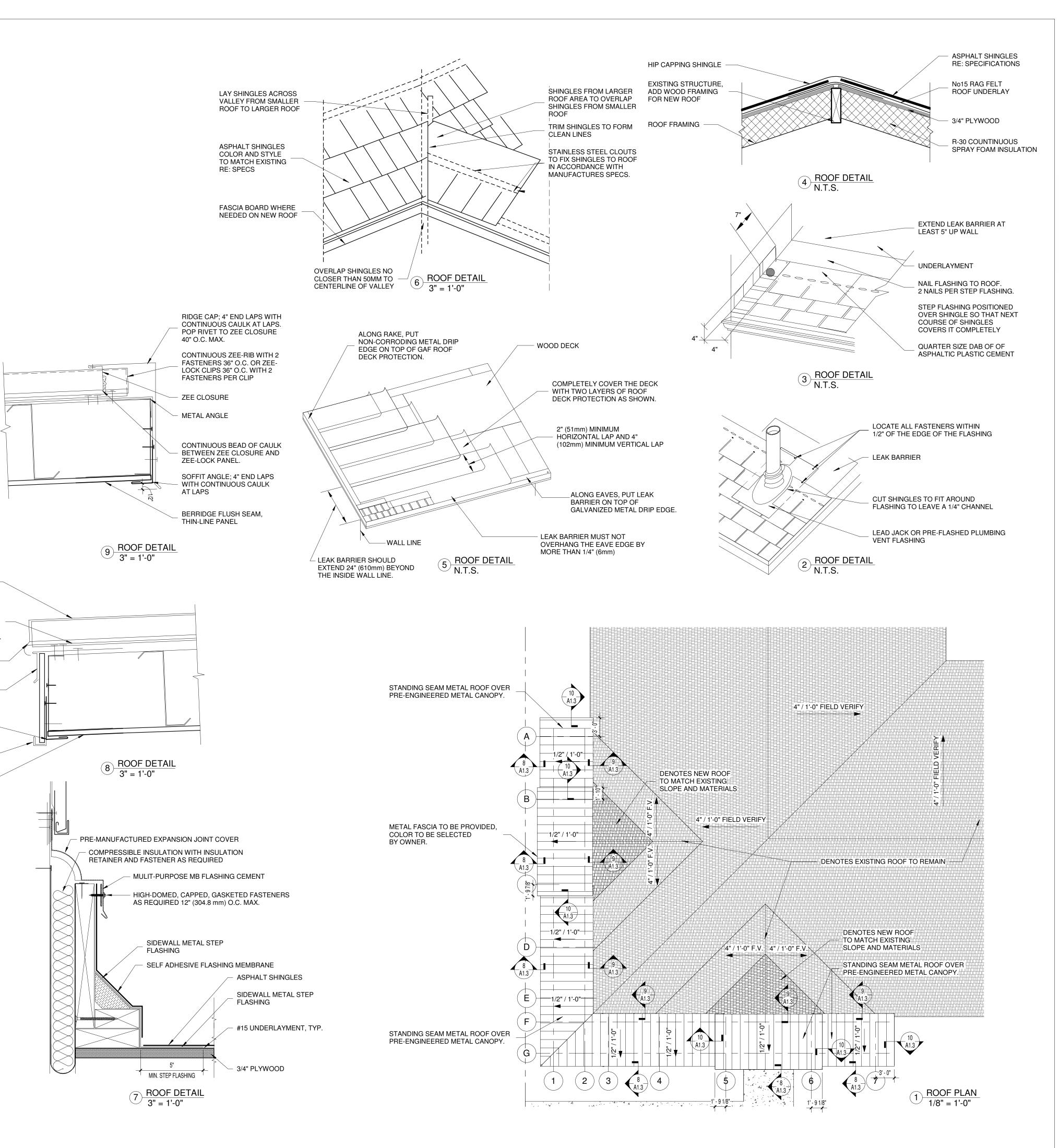
FIELD CUT SEAM AND FORM PAN AROUND EAVE FLASHING

CONTINUOUS ZEE-RIB WITH 2 FASTENERS 36" O.C. OR ZEE-LOCL CLIPS 36" O.C. WITH 2 FASTENERS PER CLIP. TWO CLIPS ARE REQUIRED AT EAVES.

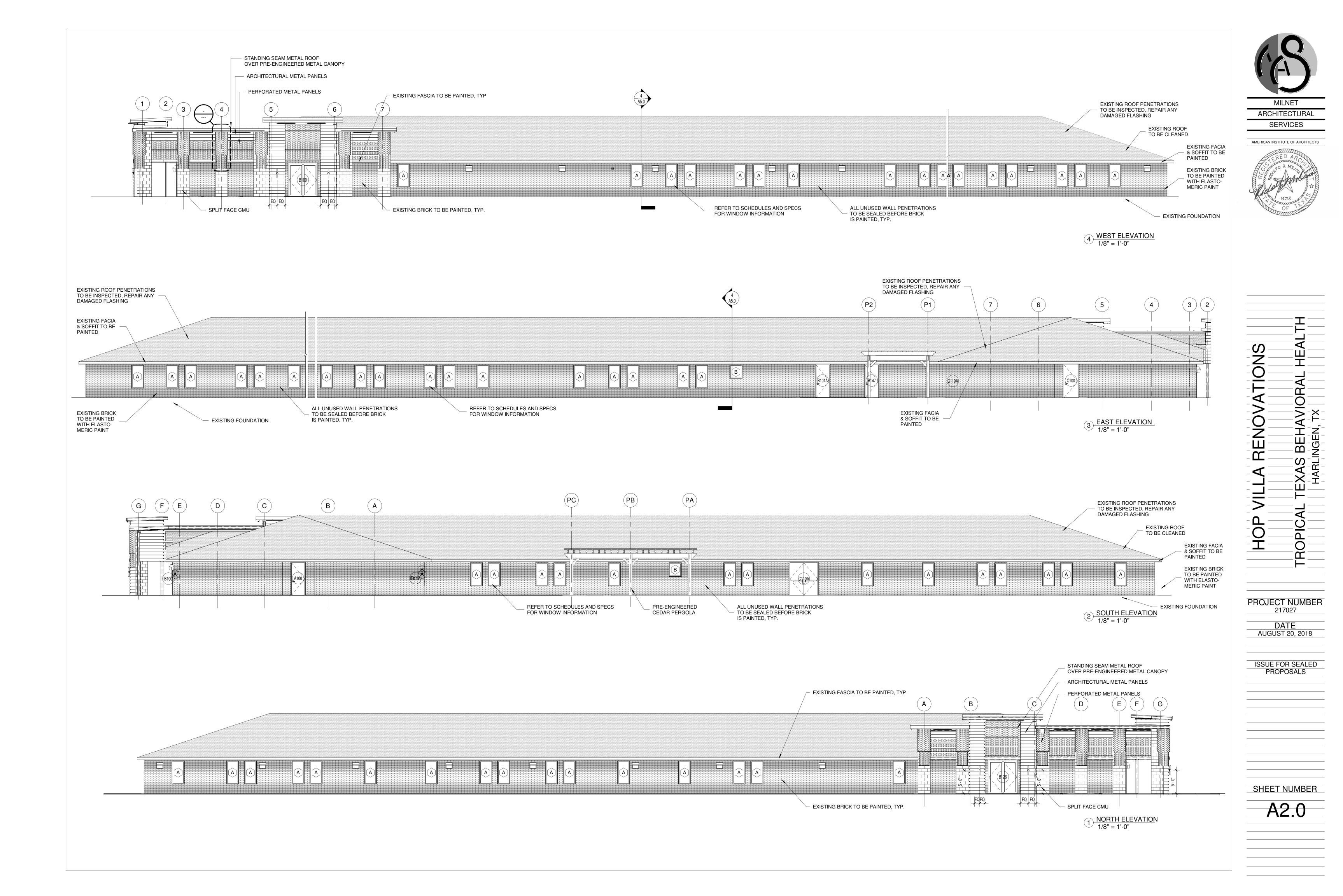
BERRIDGE ZEE-LOCK PANEL —

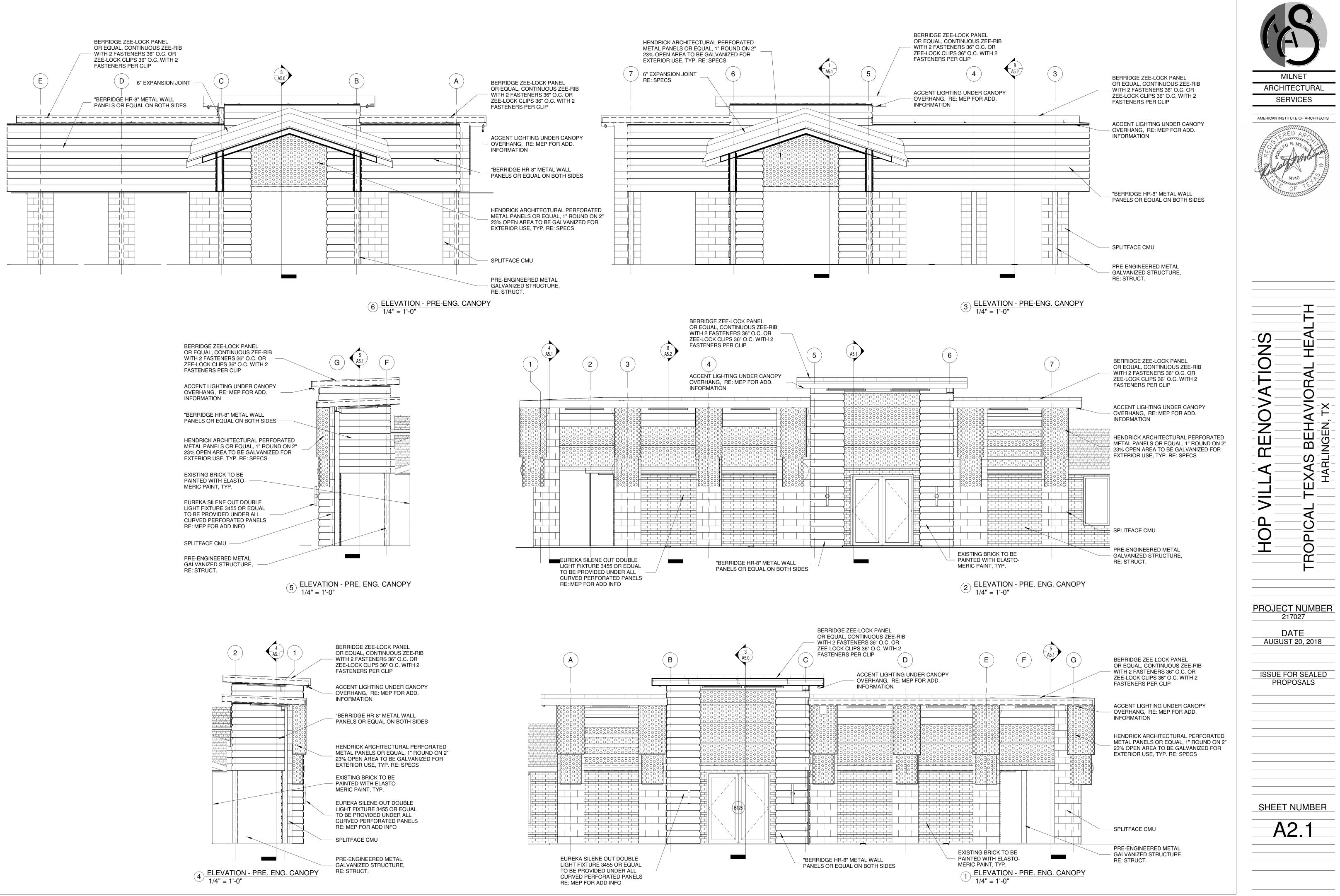
ROOF GENERAL NOTES:

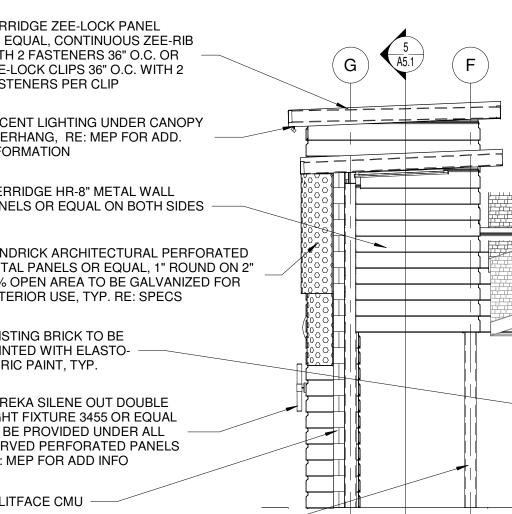
1. CONTRACTOR IS TO SEAL ROOF PENETRATION ON THE REMOVAL OF EXISTING MECHANICAL ROOF CAPS NOT NOTED FOR REUSE.

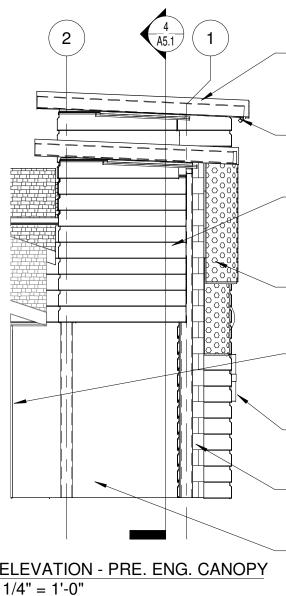


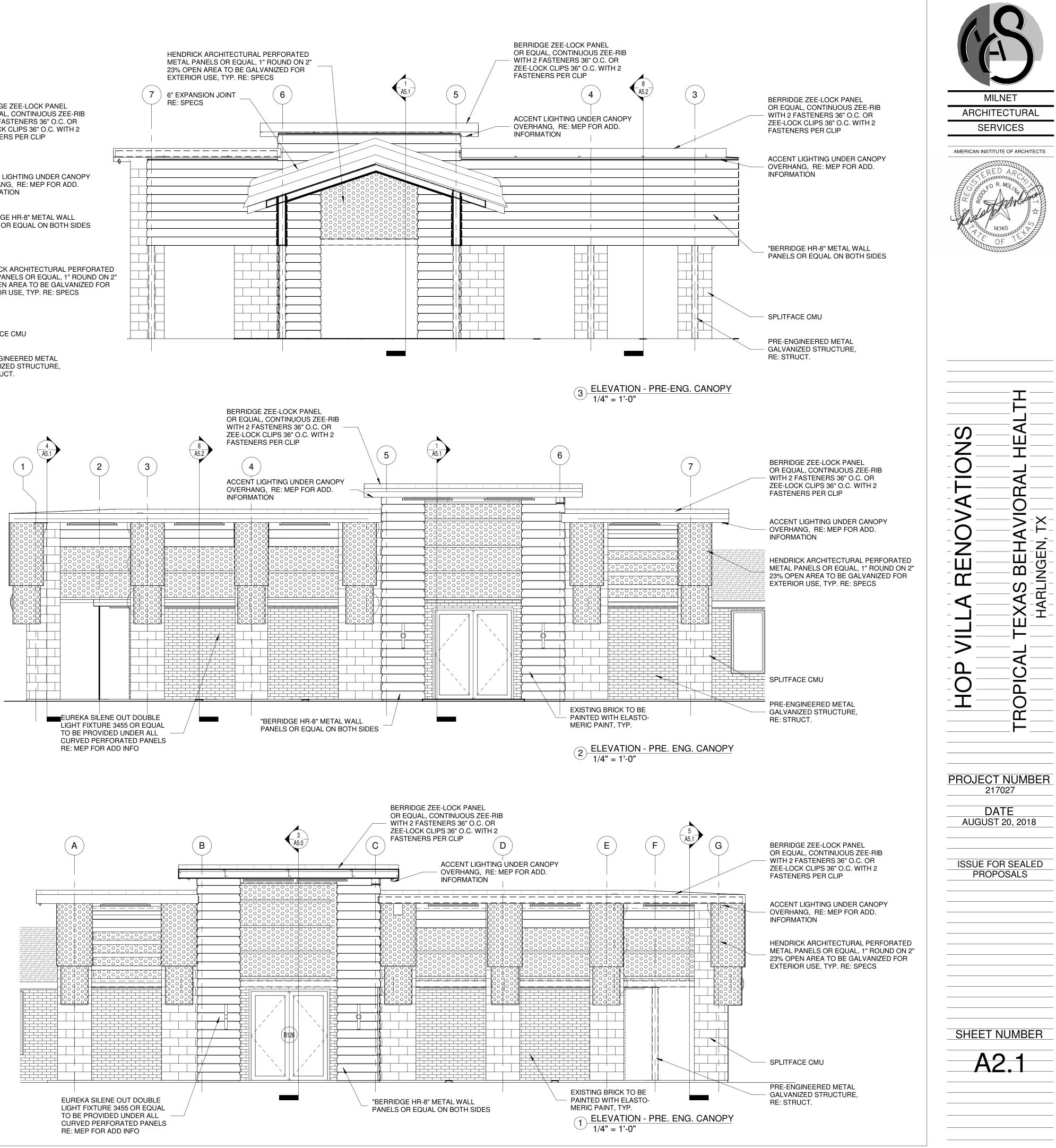


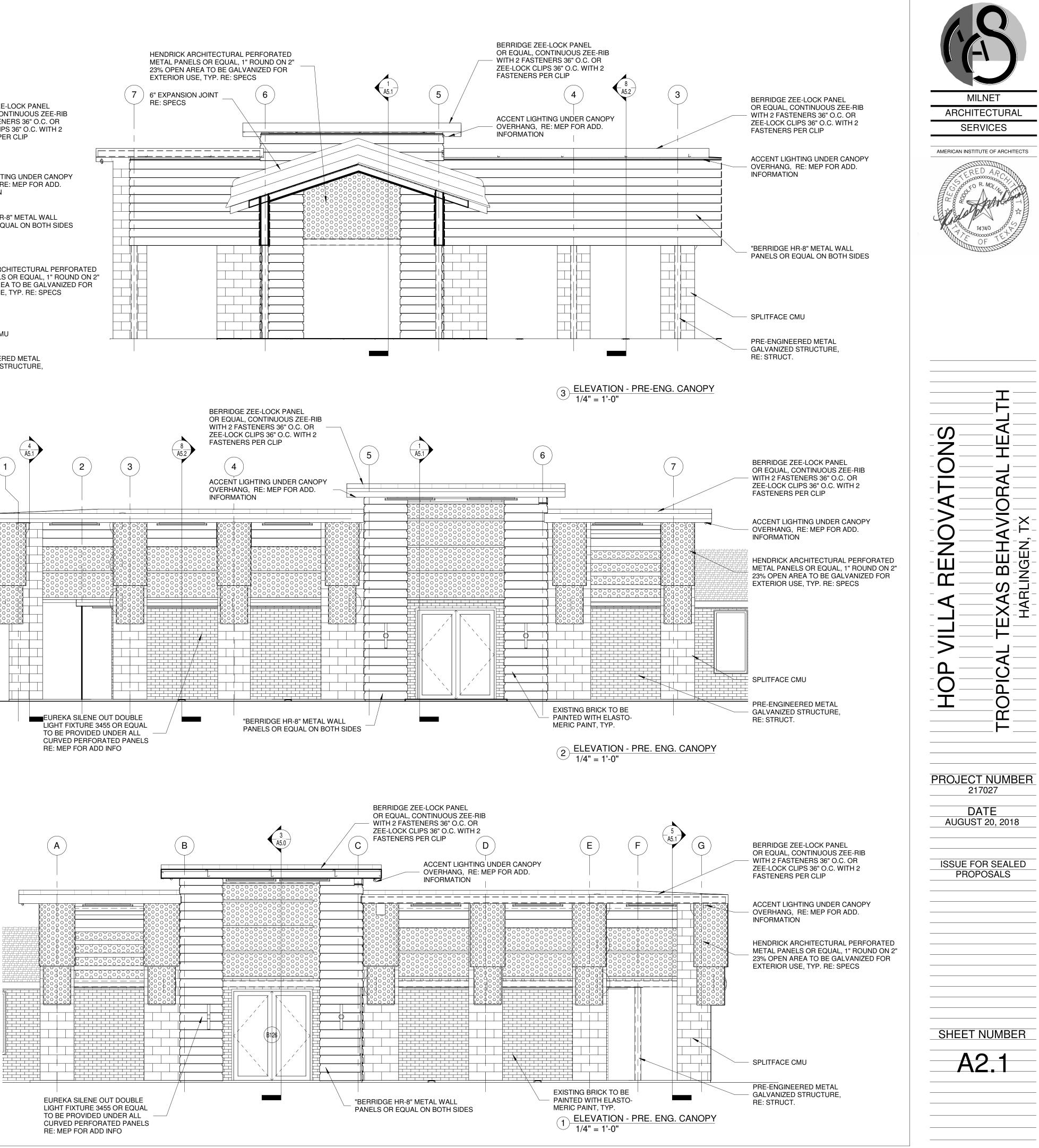


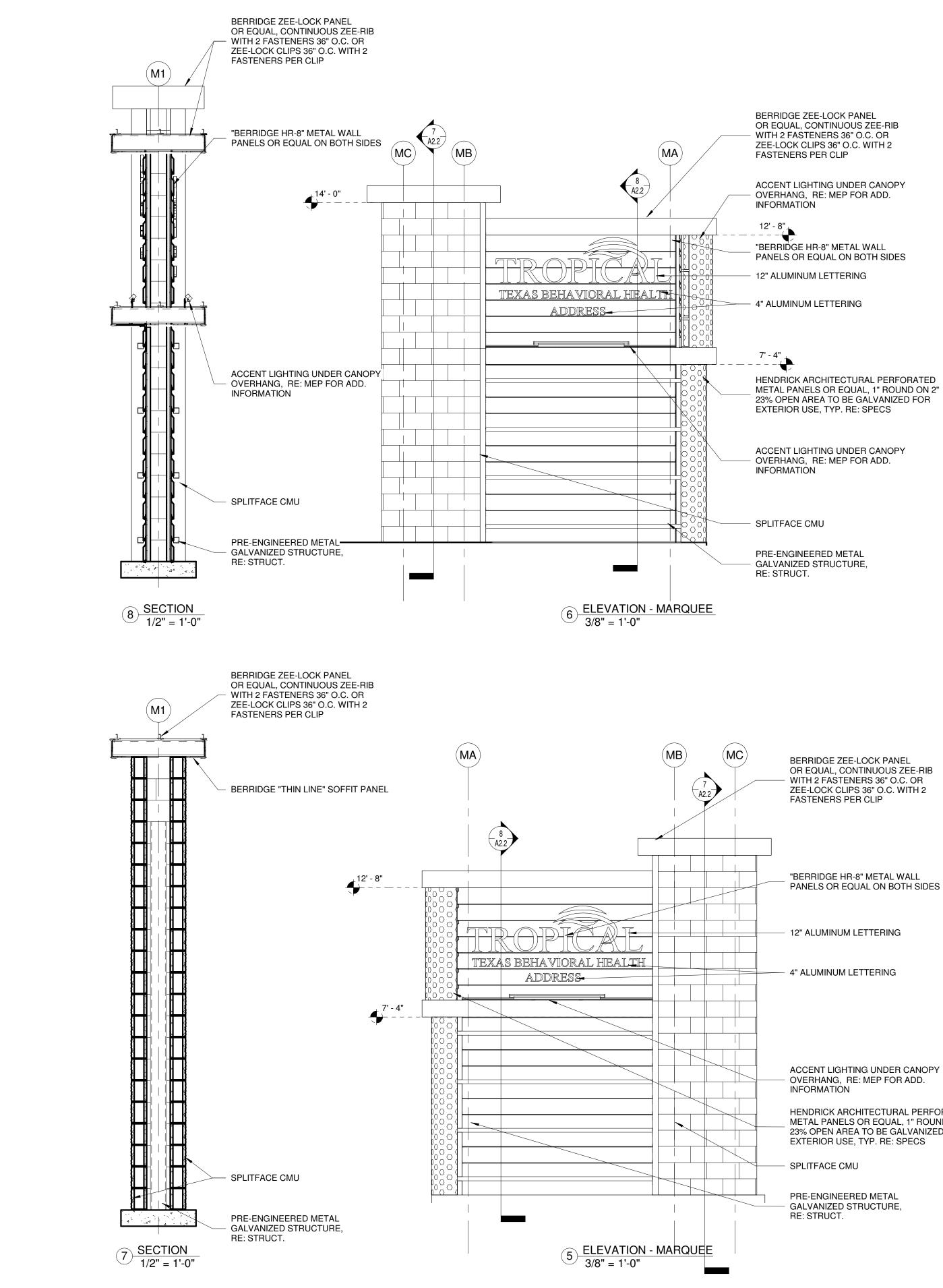












BERRIDGE ZEE-LOCK PANEL OR EQUAL, CONTINUOUS ZEE-RIB WITH 2 FASTENERS 36" O.C. OR ZEE-LOCK CLIPS 36" O.C. WITH 2 FASTENERS PER CLIP

"BERRIDGE HR-8" METAL WALL PANELS OR EQUAL ON BOTH SIDES

- 12" ALUMINUM LETTERING

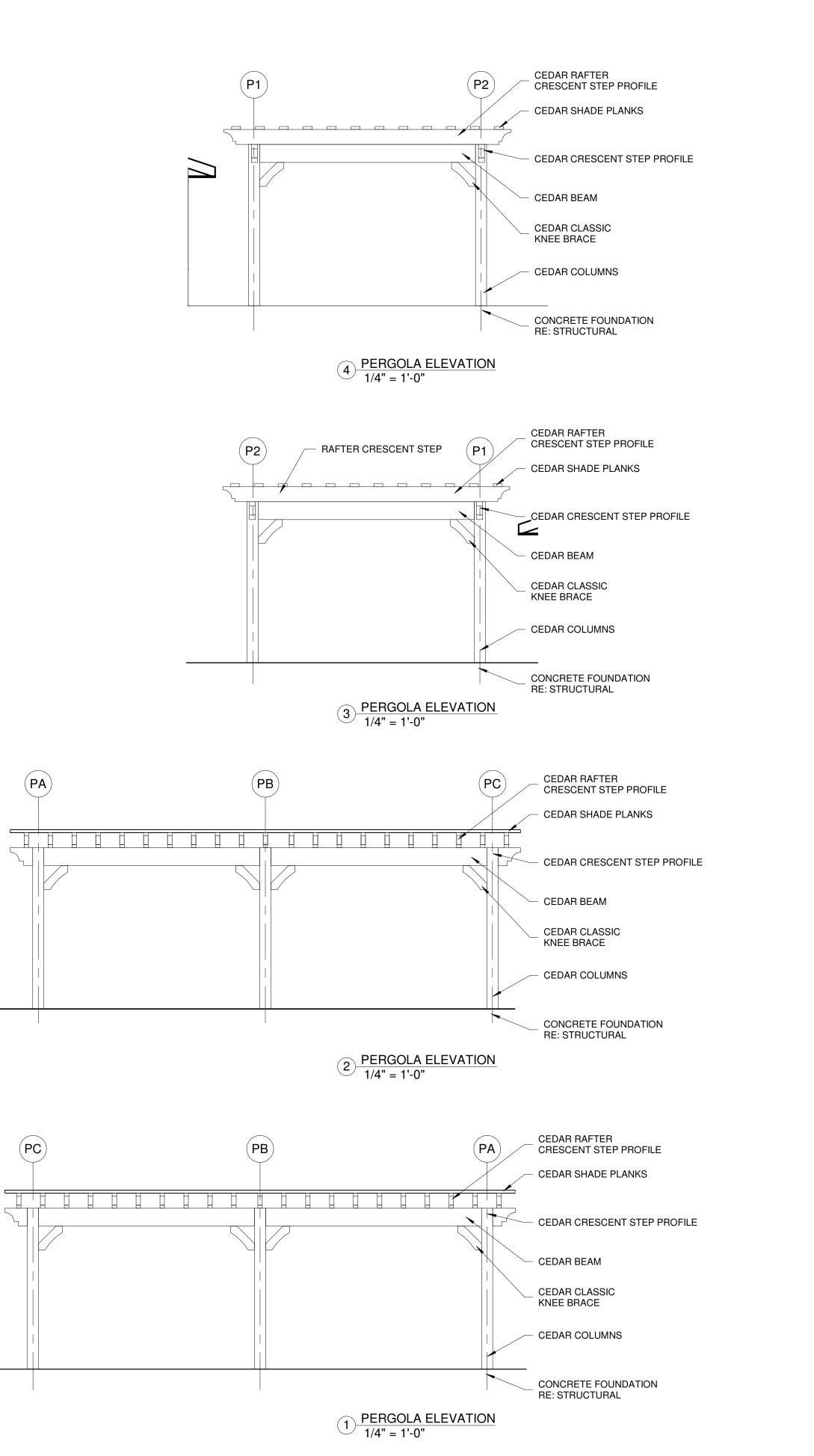
- 4" ALUMINUM LETTERING

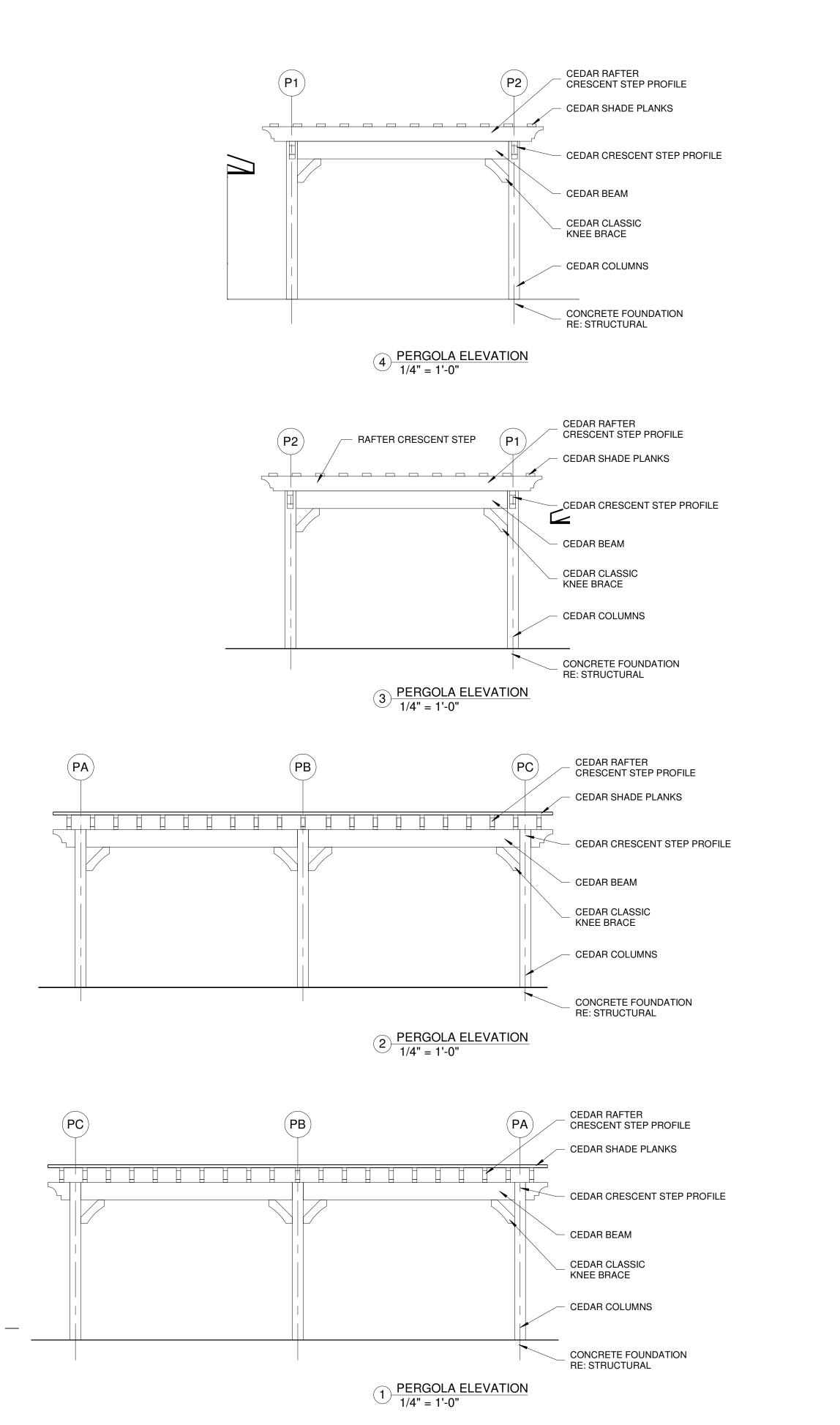
ACCENT LIGHTING UNDER CANOPY - OVERHANG, RE: MEP FOR ADD. INFORMATION

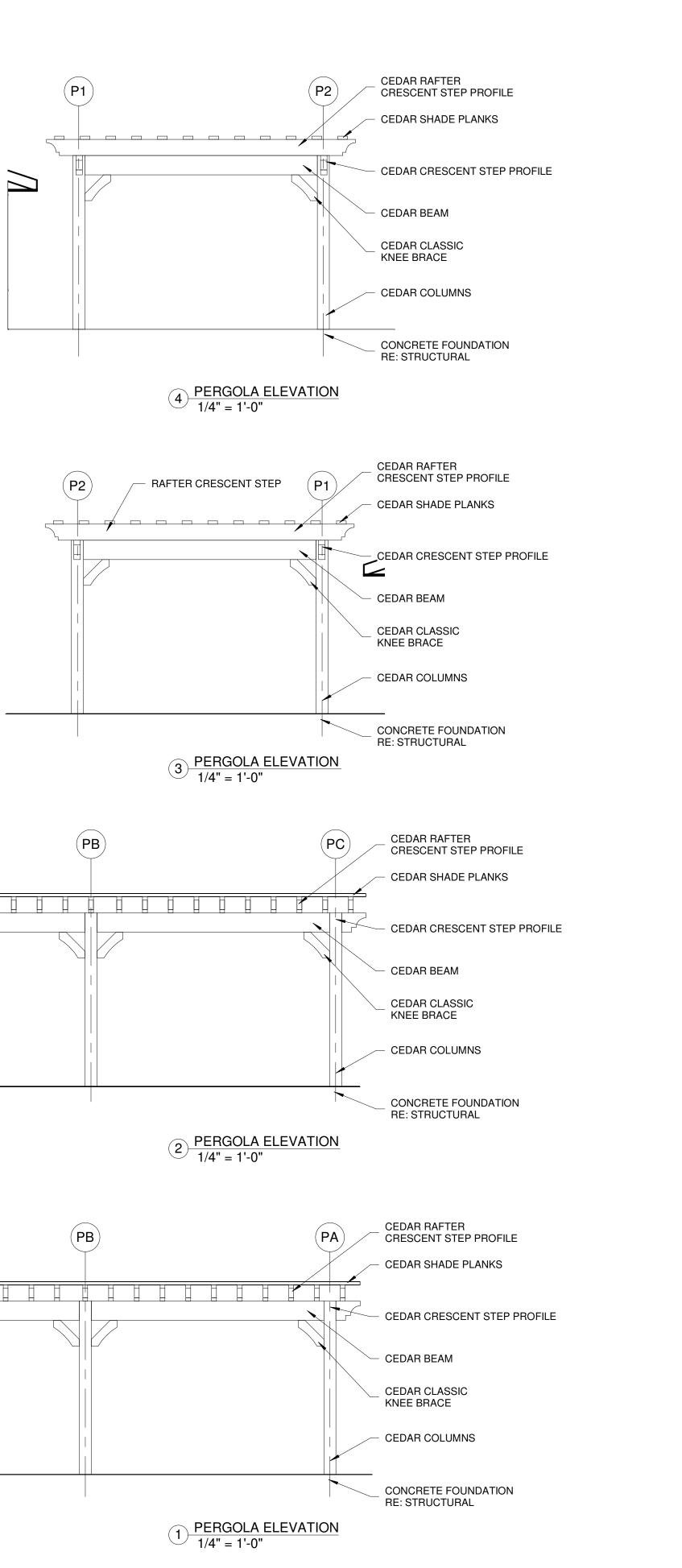
HENDRICK ARCHITECTURAL PERFORATED METAL PANELS OR EQUAL, 1" ROUND ON 2" 23% OPEN AREA TO BE GALVANIZED FOR EXTERIOR USE, TYP. RE: SPECS

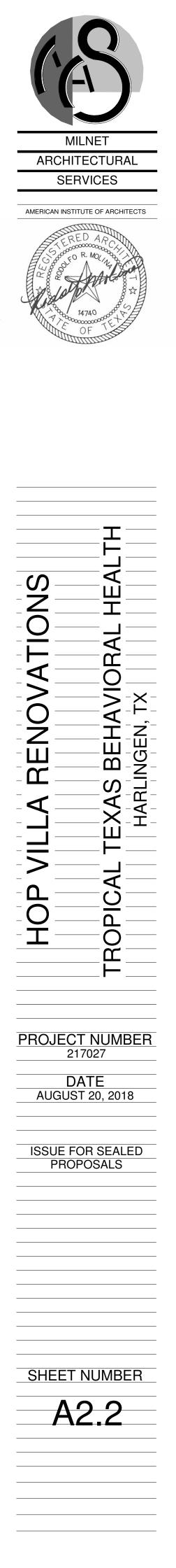
SPLITFACE CMU

PRE-ENGINEERED METAL - GALVANIZED STRUCTURE, RE: STRUCT.









TOILET ACCESSORIES LEGEND

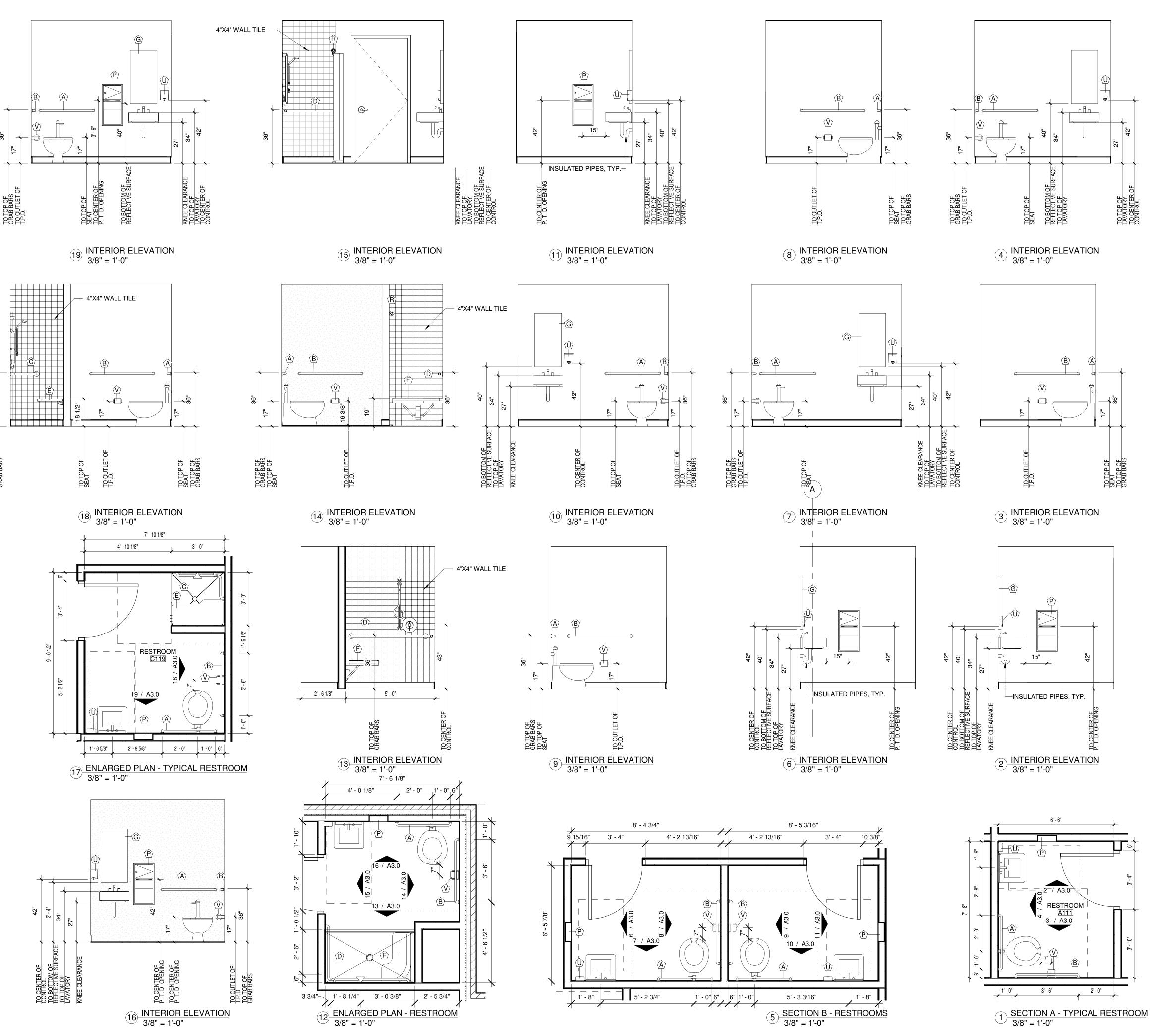
	DESCRIPTION	MODEL NO.	NOTES
$\langle \hat{A} \rangle$	STAINLESS STL GRAB BAR 36" LONG	B-6206-36	1
B	STAINLESS STL GRAB BAR 42" LONG	B-6206-42	1
	STAINLESS STL GRAB BAR 24"X36"	B-68616	1
	STAINLESS STL GRAB BAR 36"X54"	B-58616	1
Ê	RIGHT HAND FOLDING H.C. SHOWER SEAT	B-517	1
(F)	LEFT HAND FOLDING H.C. SHOWER SEAT	B-518	1
G	FRAMED 1/4" PLATE GLASS MIRROR 18"x36"	B-290-1836	2
H	FRAMED 1/4" PLATE GLASS MIRROR 24"X72"	B-290-2472	2
(1)	STAINLESS STL MOP & BROOM HOLDER 24" LONG	B-223X24	-
Ĵ	SURFACE MOUNTED TOWEL HOOKS	B-981	
(K)	RECESED SOAP DISH	B-439	
Ĺ	TOWEL PIN	B-677	
M	NOT USED		
$\langle N \rangle$	NOT USED		
$\langle \mathbf{P} \rangle$	RECESSED PAPER TOWEL DISPENSER	B-369	9 & 10
	SHOWER ROD	B-207	
(Â)	SHOWER CURTAIN & HOOKS	B-204-1 B-204-2	8
S	NOT USED	B-204-2	
Т	NOT USED		
$\langle \mathbf{U} \rangle$	BOBRICK CONTURA SERIES SURFACE MOUNTED SOAP DISPENSER	B-4112	9 & 10
$\langle \mathbf{v} \rangle$	BOBRICK CLASSIC SERIES SURFACE-MOUNTED TOILET TISSUE DISPENSER FOR TWO ROLLS	B-265	

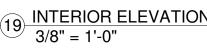
TOILET ACCESSORIES NOTES

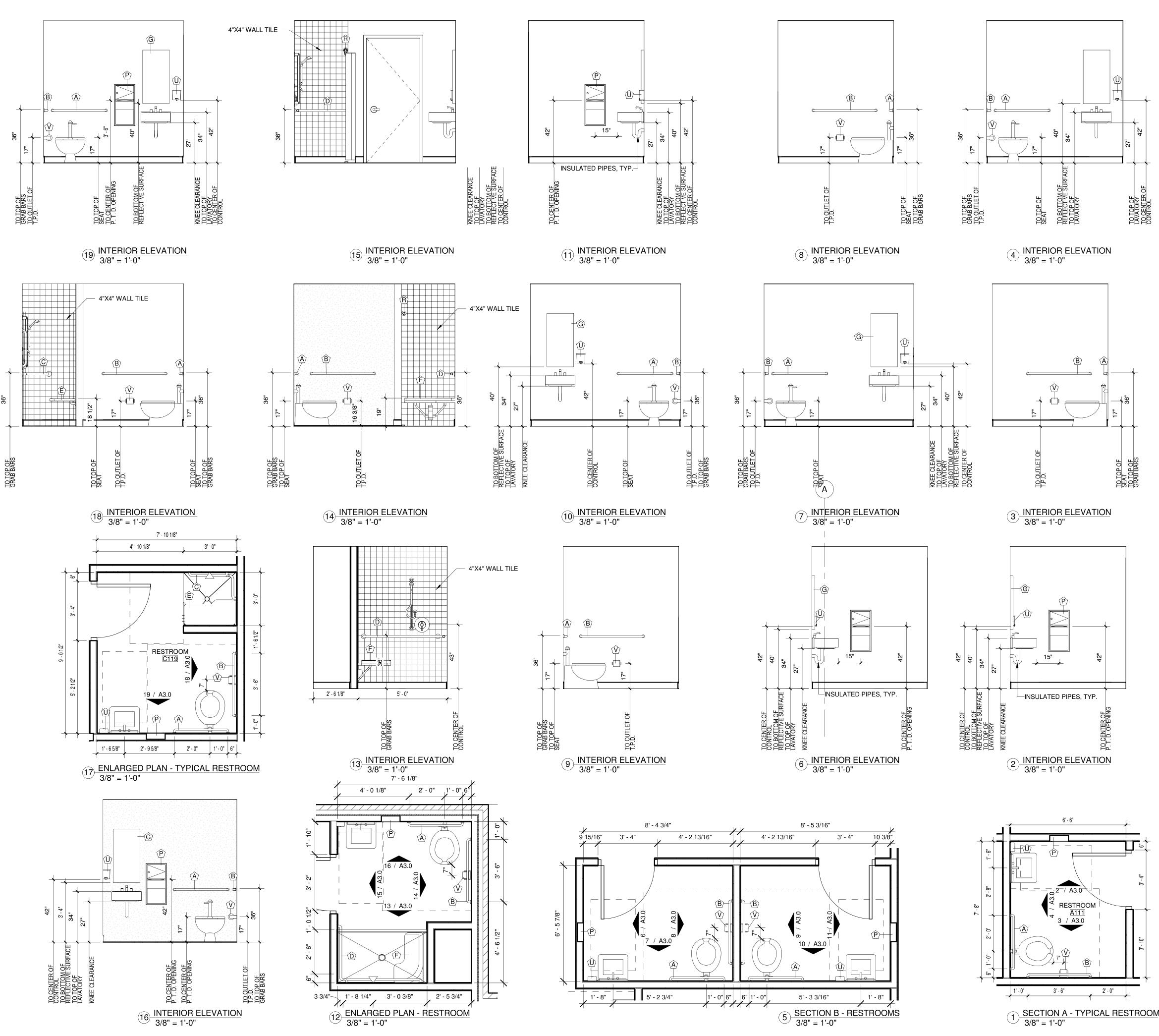
- PROVIDE ALL NECESSARY ANCHORING PLATES AND FASTENERS.
- PROVIDE EXPANSION SHIELDS FOR CMU PTN OR ANCHORING PLATE AND TOGGLE BOLTS AT GYP BD WALL CONDITIONS FOR SECURE ATTCHMENT.
- COORDINATE WITH WALL PTN CONSTRUCTION FOR RECESSED 3. ACCESSORY.
- COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD COLORS.
- COORDINATE ELECTRICAL REQUIREMENTS AND ANCHORING. LENGTH OF ROD SHALL BE FIELD VERIFIED AND COORDINATED BY
- CONTRACTOR. QUANTITY OF HOOKS AND SIZE OF CURTAIN TO BE PROVIDED AS
- REQUIRED TO FIT OPENING. COORDINATE LOCATION WITH OTHER ACCESSORIES ON WALL.
- UNIT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF BASE BID.
- 10. RE: A3.0 FOR MOUNTING HEIGHTS

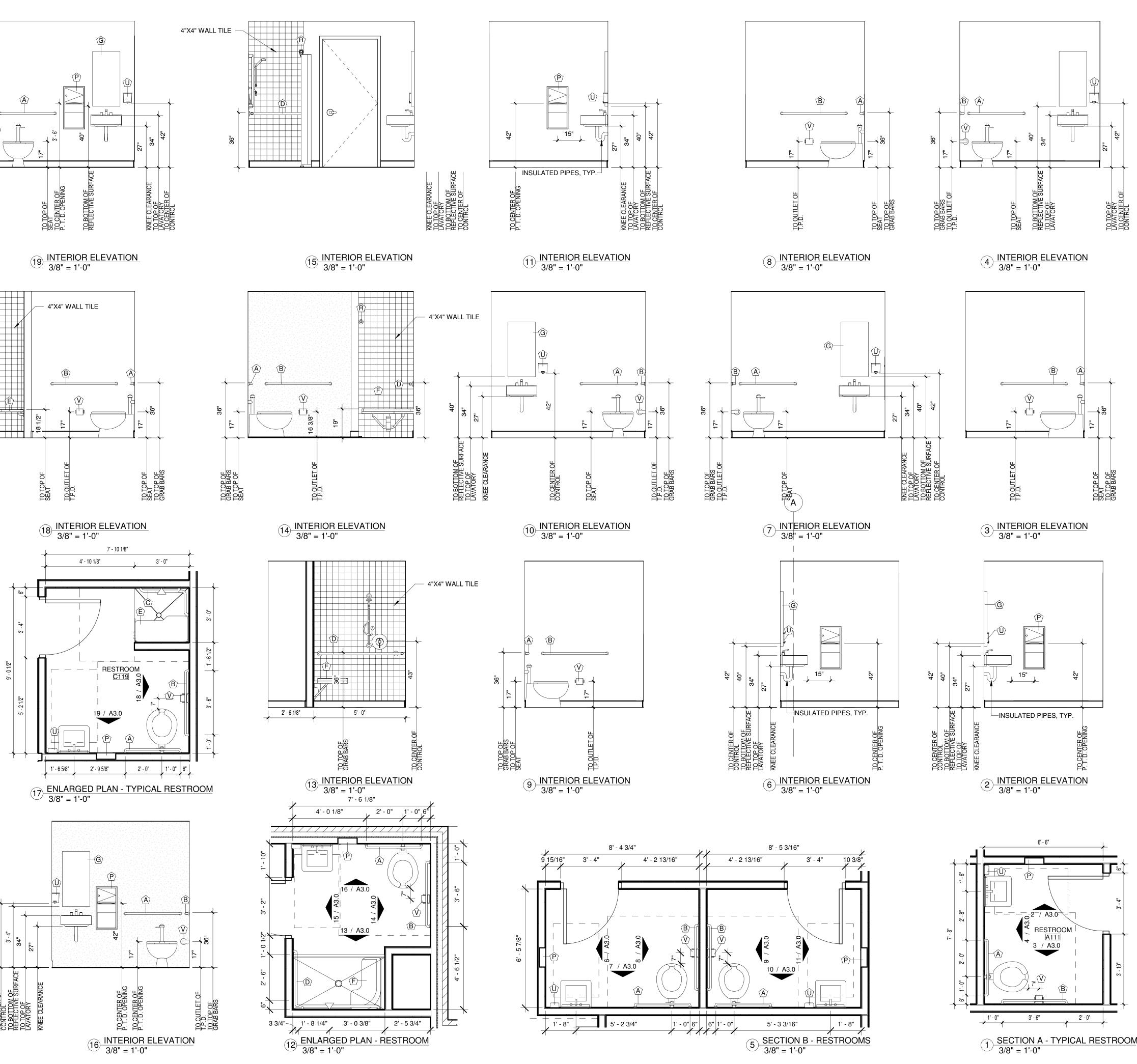
GENERAL NOTES

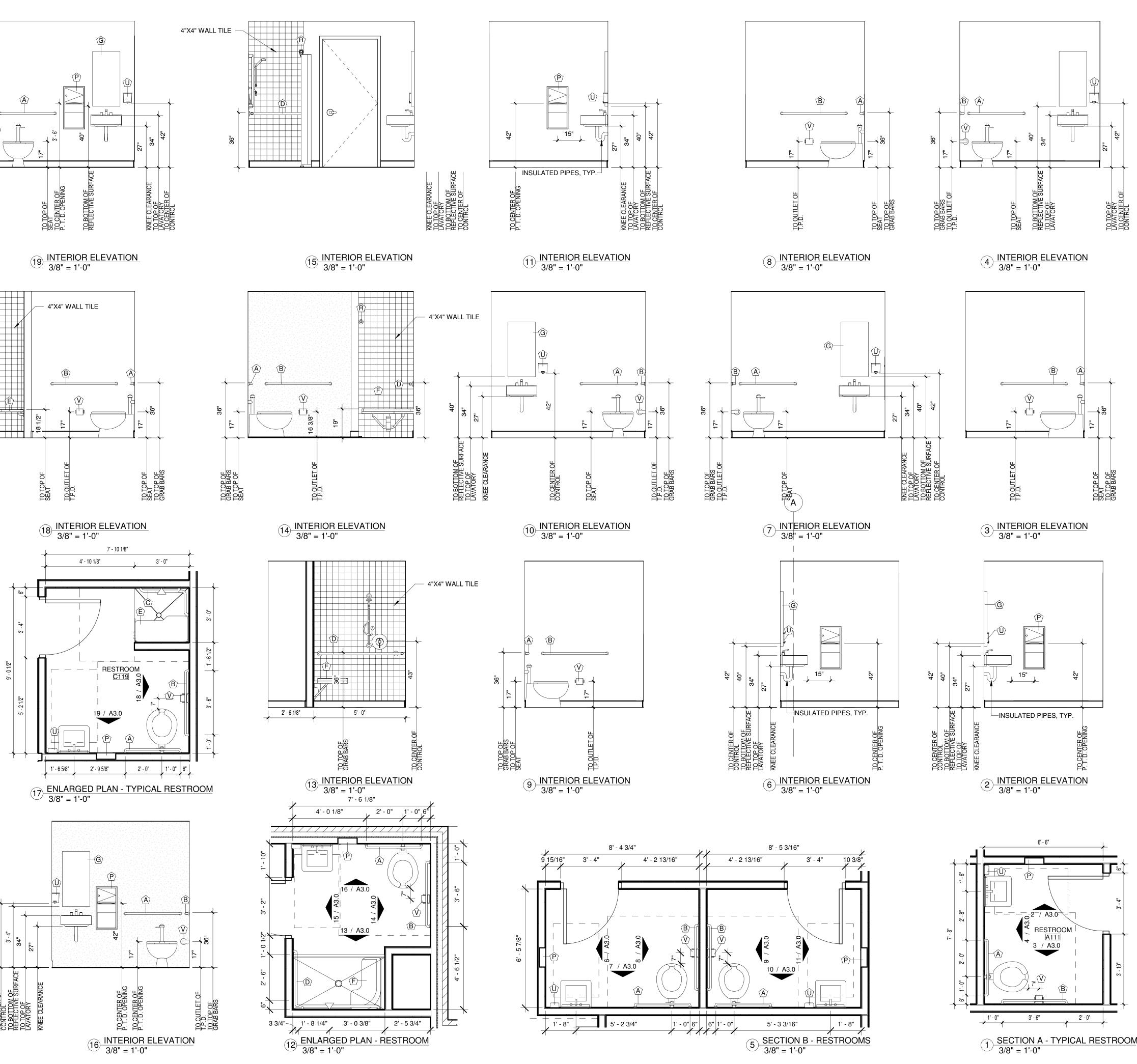
- GENERAL CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE WITH ALL EXISTING CONDITIONS AND CONTRACT DOCUMENTS. CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY DISCREPANCIES OR IRREGULARITIES THAT MAY EXIST PRIOR TO SUBMITTING A BID.
- GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS AND CONSTRUCTION MATERIAL OFF OF SITE AND DISPOSE ON APPROPRIATE DUMPSITE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS, QUANTITIES, ETC. PRIOR TO BIDDING.
- 4. PAINT ALL (4) WALLS WHERE NEW CONSTRUCTION HAS OCCURRED
- PROVIDE A 24X24 CEILING ACCESS PANEL AT ALL RESTROOMS.
- 6. PROVIDE A FLOOR DRAIN AT EVERY RESTROOM.
- PROVIDE A STAINLESS STL. MOP & BROOM HOLDER 24" LONG. AT MOP SINK RM. B115, B137.

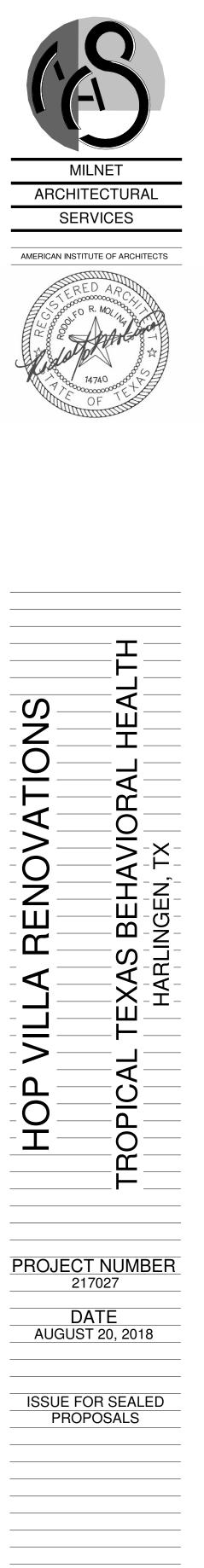




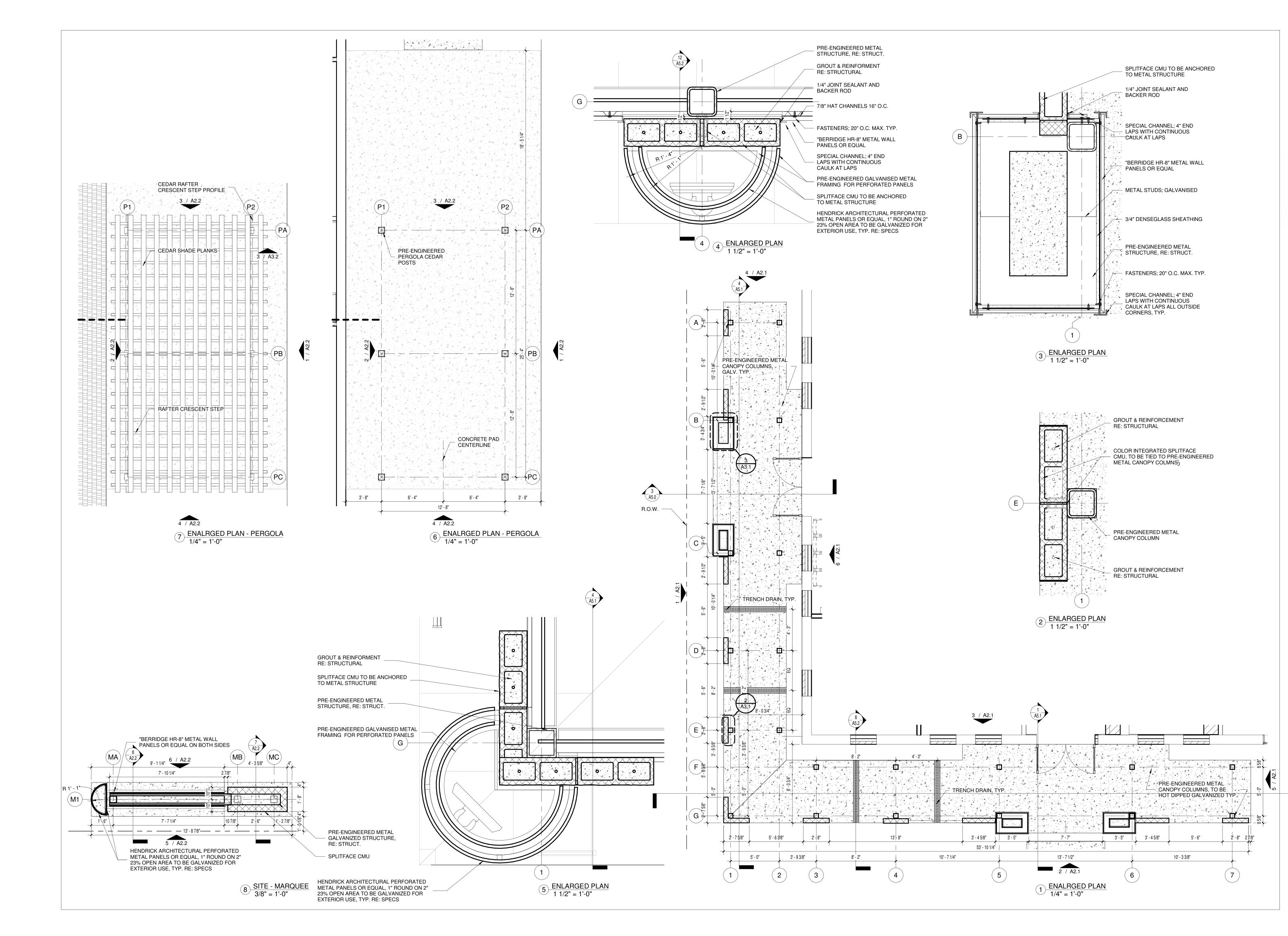




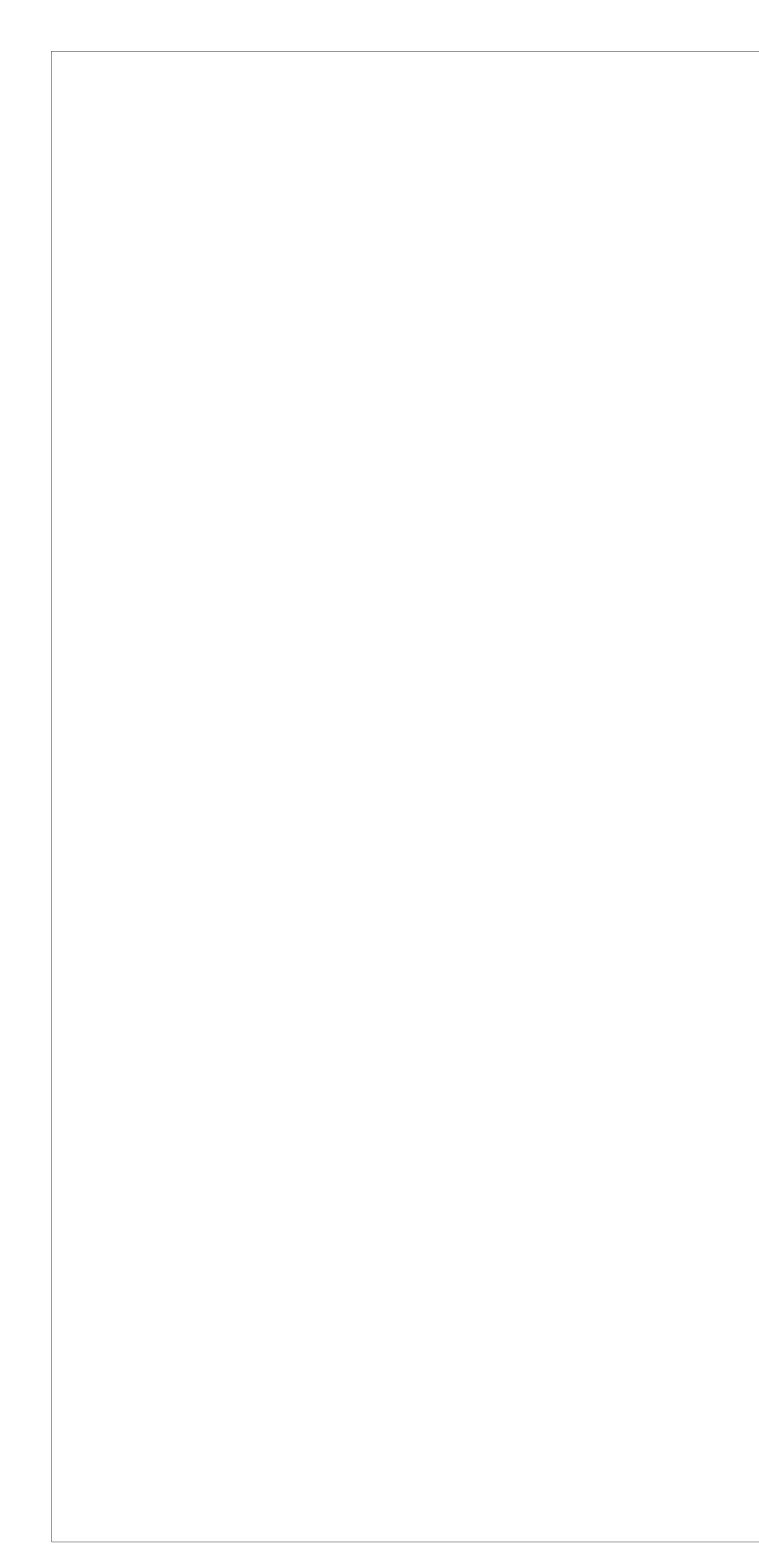


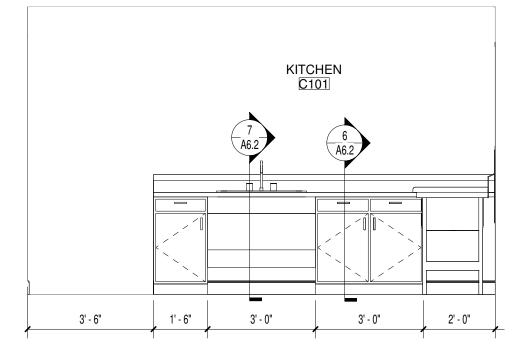


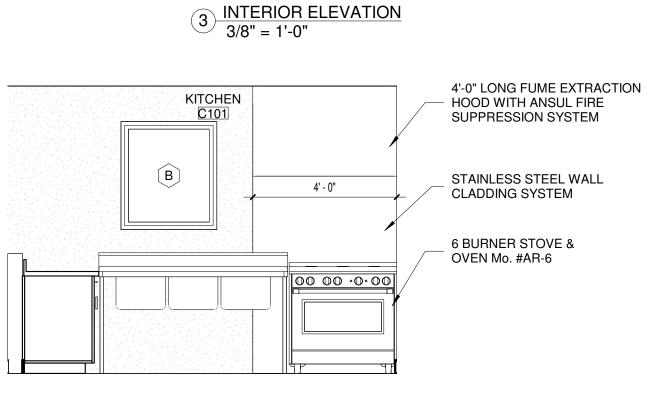
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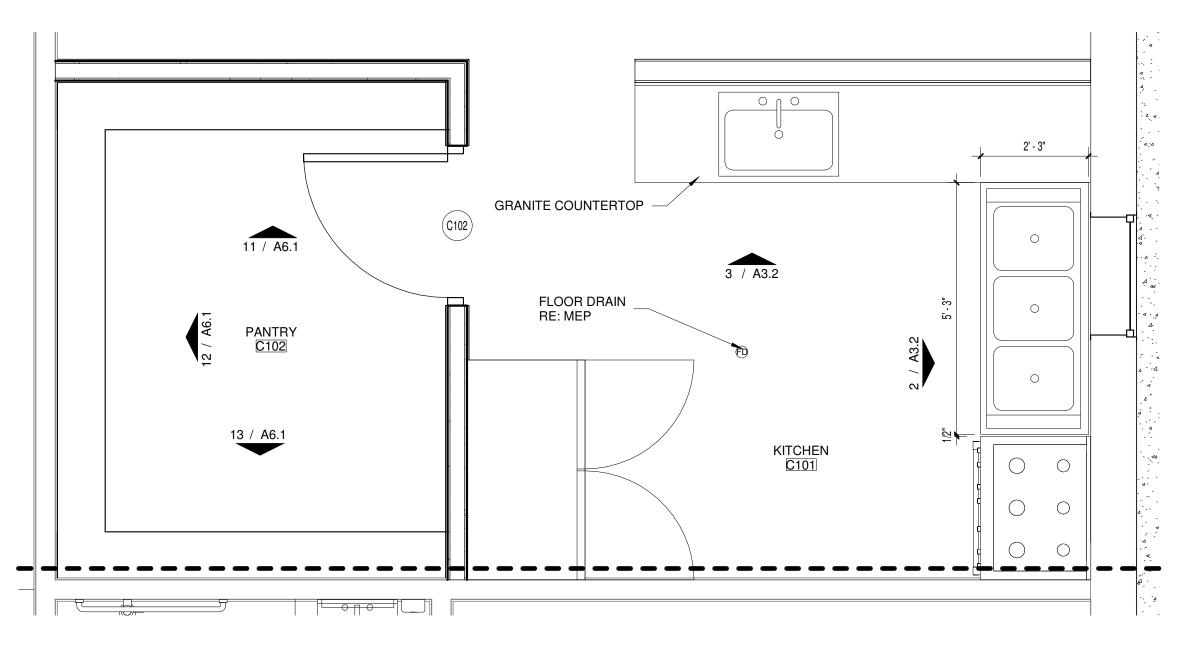


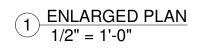


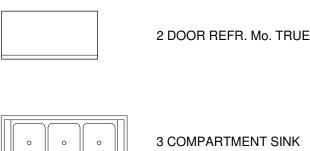










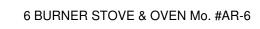


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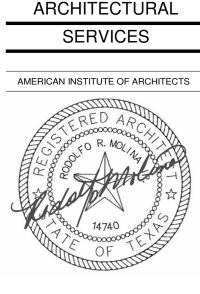
2 DOOR REFR. Mo. TRUE T-49



KITCHEN EQUIPMENT LEGEND





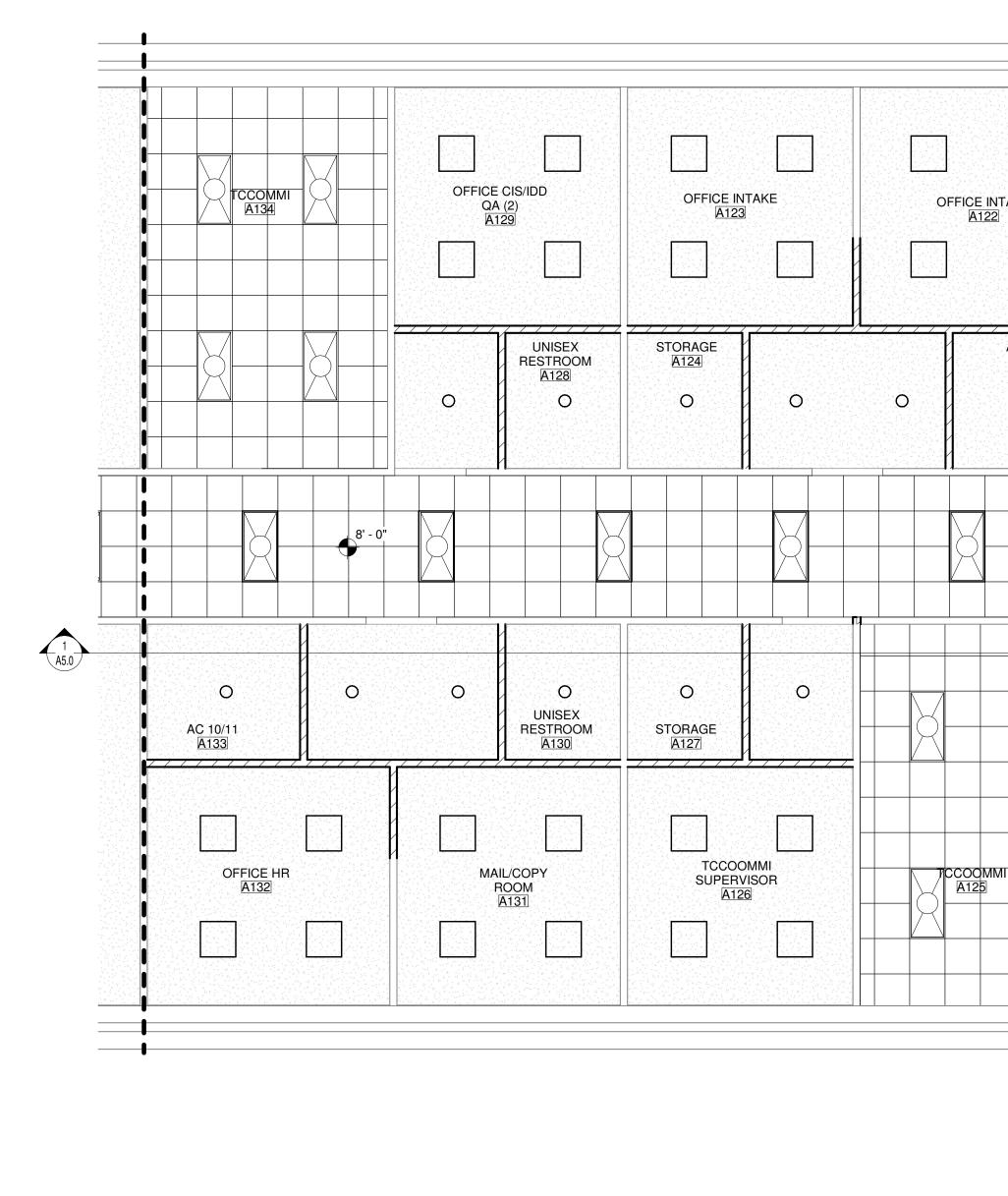




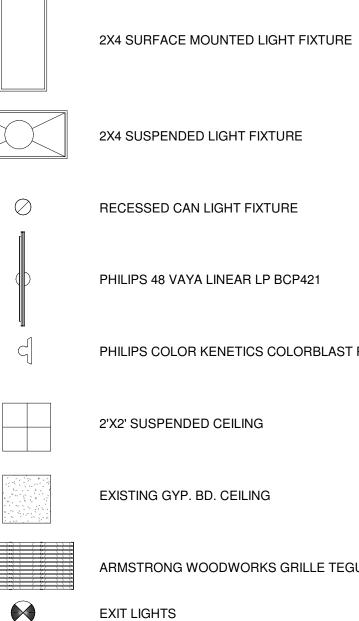
SHEET NUMBER

A3.2





CEILING LEGEND



			2 A5.	0						
NTAKE	OFFICE MANAGER A120		SU	OFFICE PERVISOR A119	OFFIC SUPERVI A110) ISOR]	SUF	DFFICE PERVISOR A109	OF SUPEI A	- スクロッシュアンシンシンド日子 シンペッシング
AC 1/2 A121 O			O	AC 3/ELEC. A118 O	RESTROOM A111 O		<u> </u>	AC 4/5 A108 O	STORAGE A107 O	
HALLWAY A100	8'-0								8' - 0"	
	O AC 8/9 A117			O STORAGE A115	O UNISEX RESTROOM <u>A114</u>			O AC 6/7 A112		
		IDD CUBIC A116					UBICLES			

PHILIPS COLOR KENETICS COLORBLAST POWERCORE

ARMSTRONG WOODWORKS GRILLE TEGULAR 2'X4'

GENERAL NOTES

OTHERWISE RATED TO MATCH THE CEILING.

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

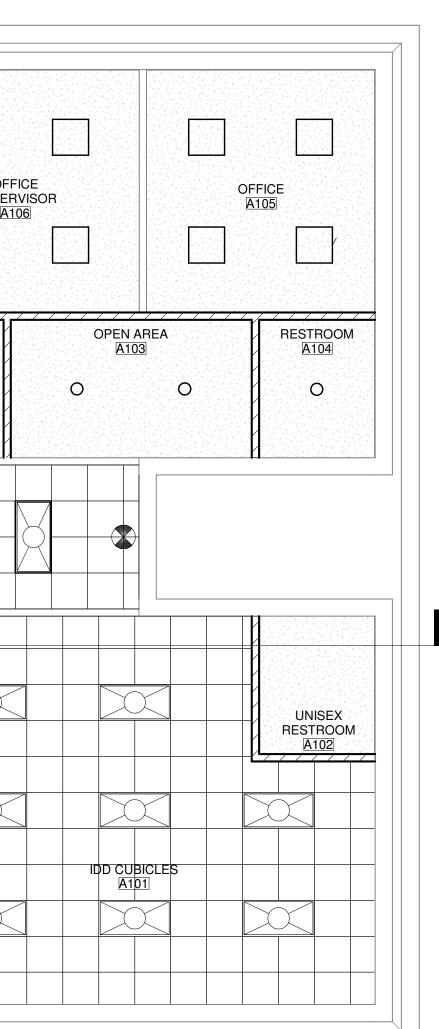
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. IF SPRINKLER SYSTEM IS REQUIRED OR IN PLACE, SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS. 7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR



 $1 \frac{\text{REFLECTED CEILING PLAN - SECTION A}}{3/16" = 1'-0"}$



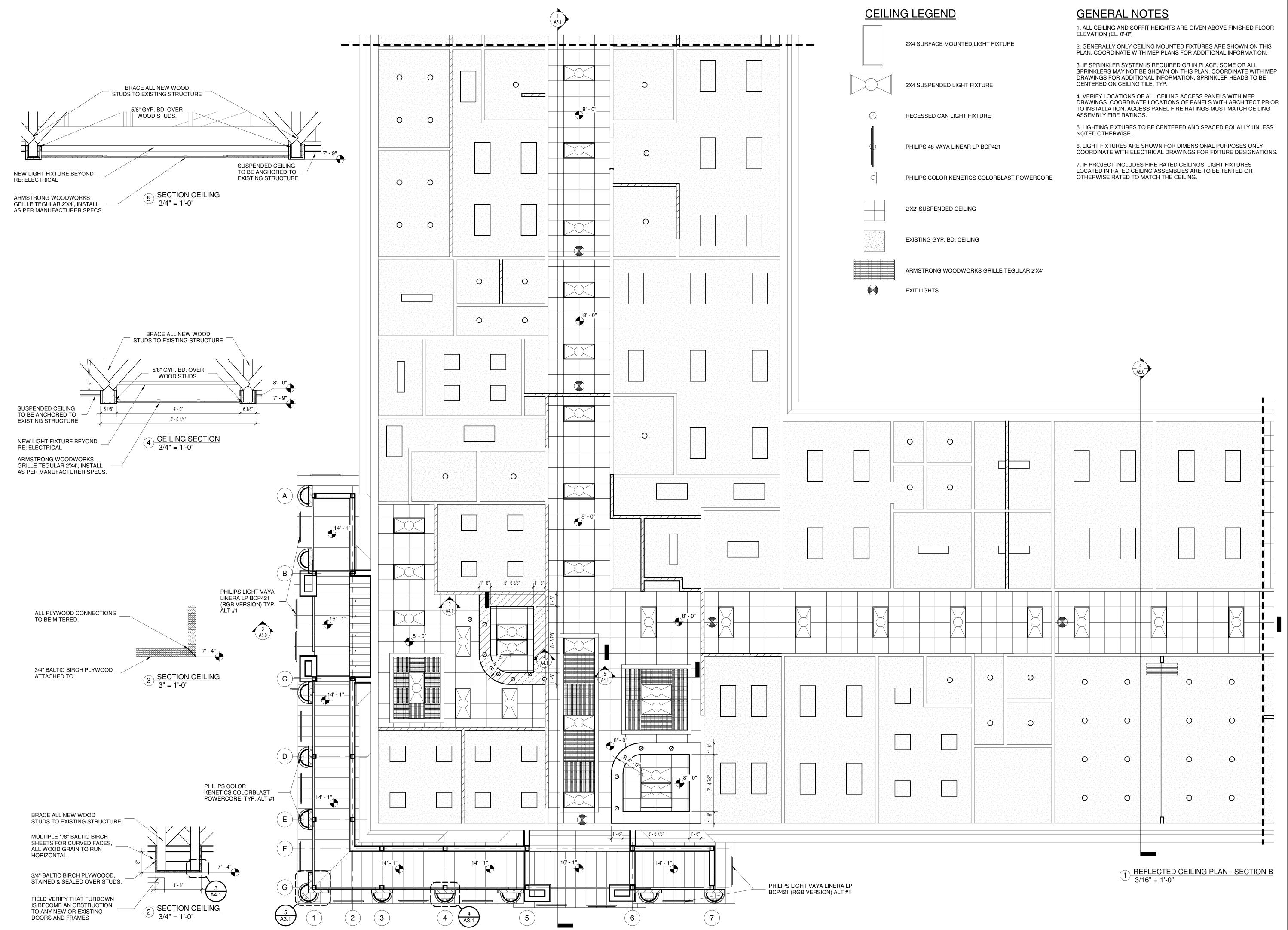




ISSUE FOR SEALED PROPOSALS



A4.0





ARCHITECTURAL SERVICES



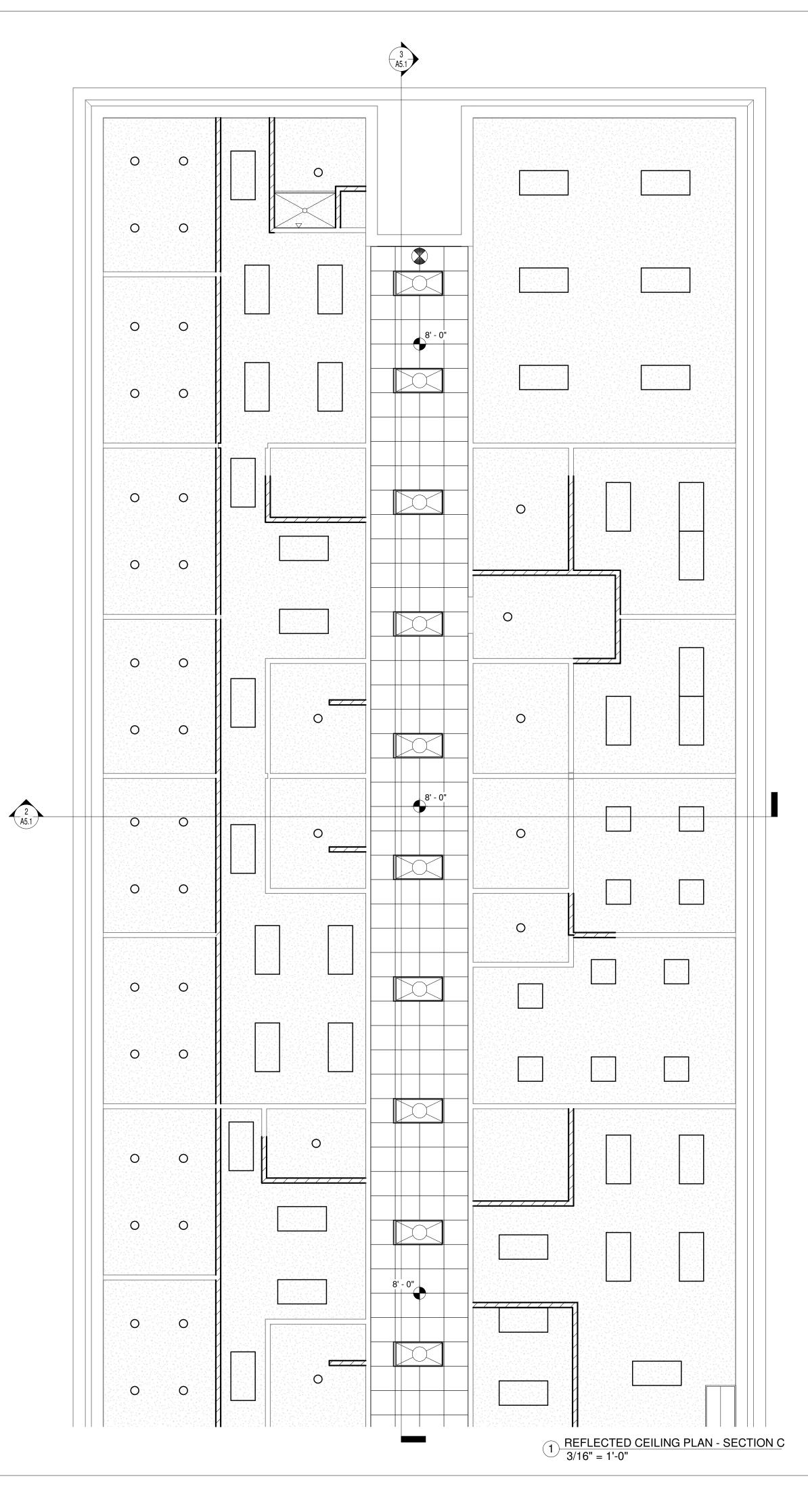


AUGUST 20, 2018

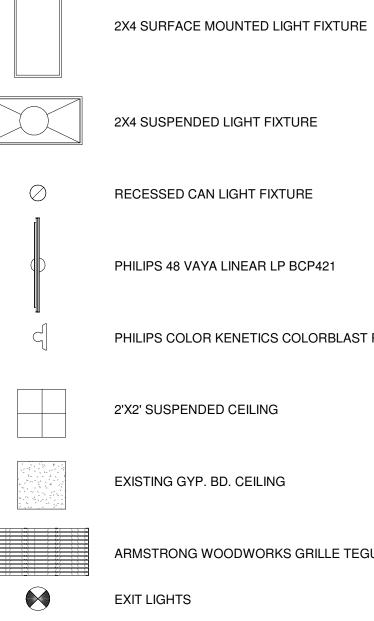
ISSUE FOR SEALED PROPOSALS

SHEET NUMBER

A4.1



CEILING LEGEND



PHILIPS COLOR KENETICS COLORBLAST POWERCORE

ARMSTRONG WOODWORKS GRILLE TEGULAR 2'X4'

GENERAL NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. IF SPRINKLER SYSTEM IS REQUIRED OR IN PLACE, SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.

7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.



SERVICES





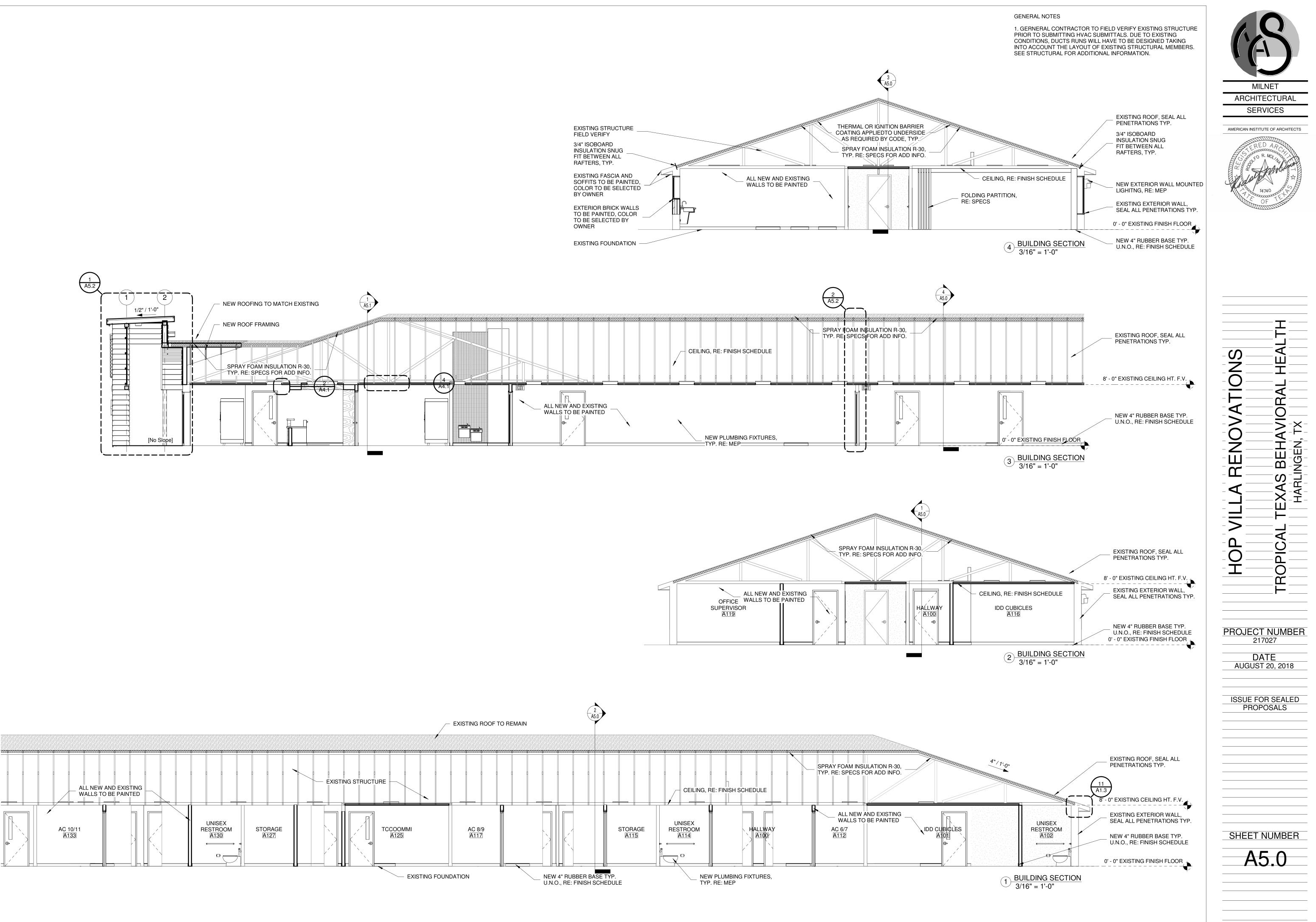
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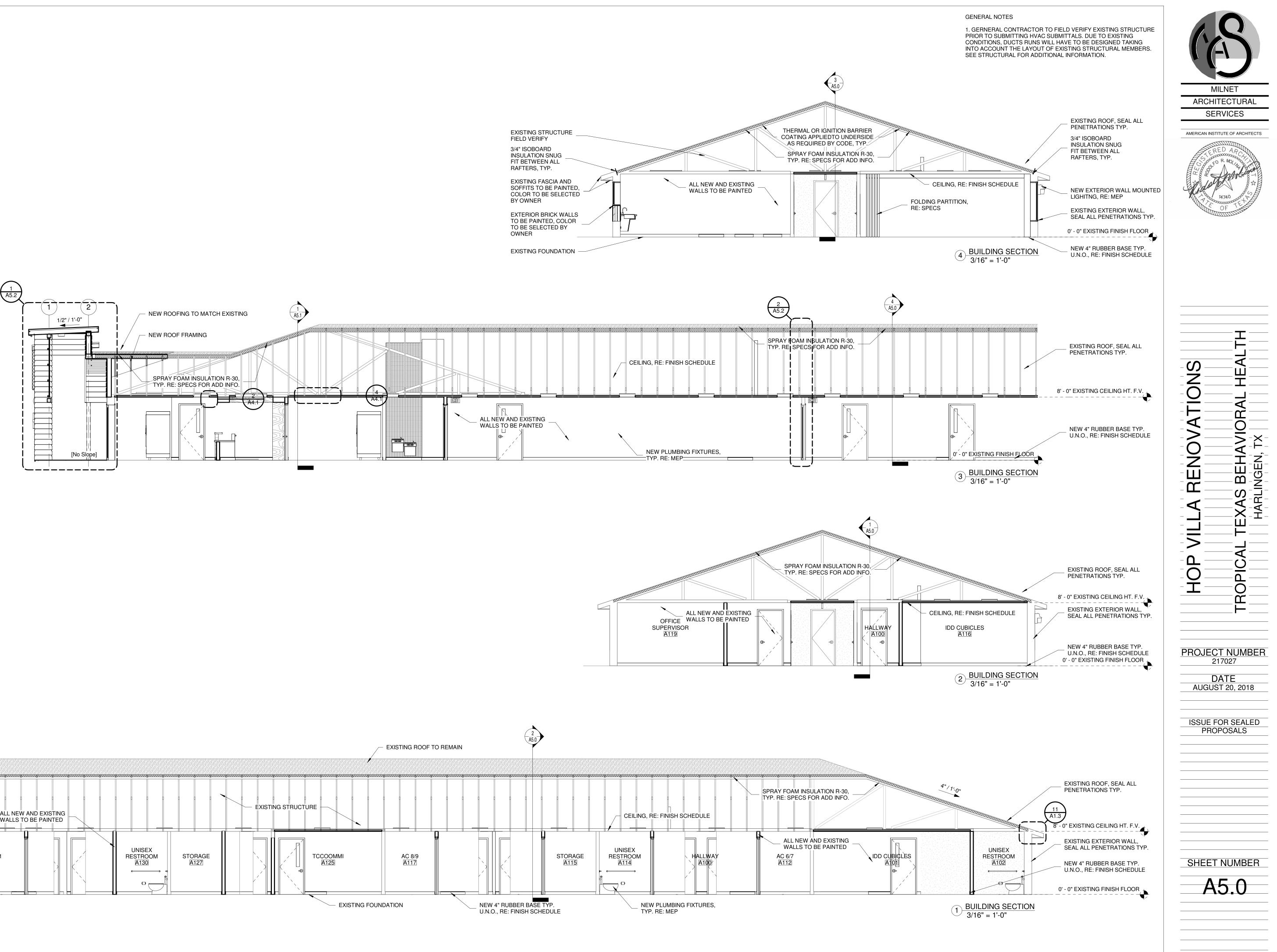
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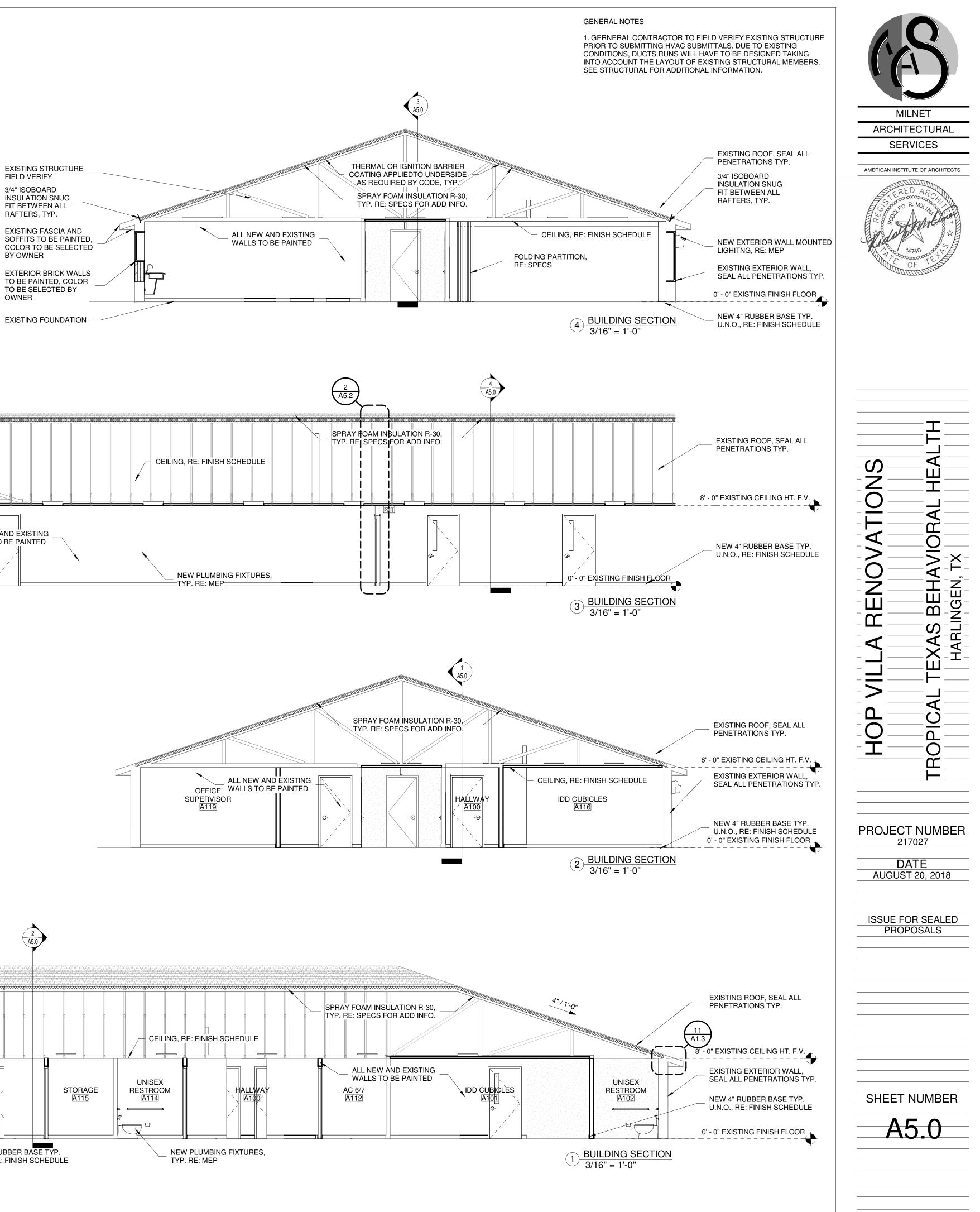
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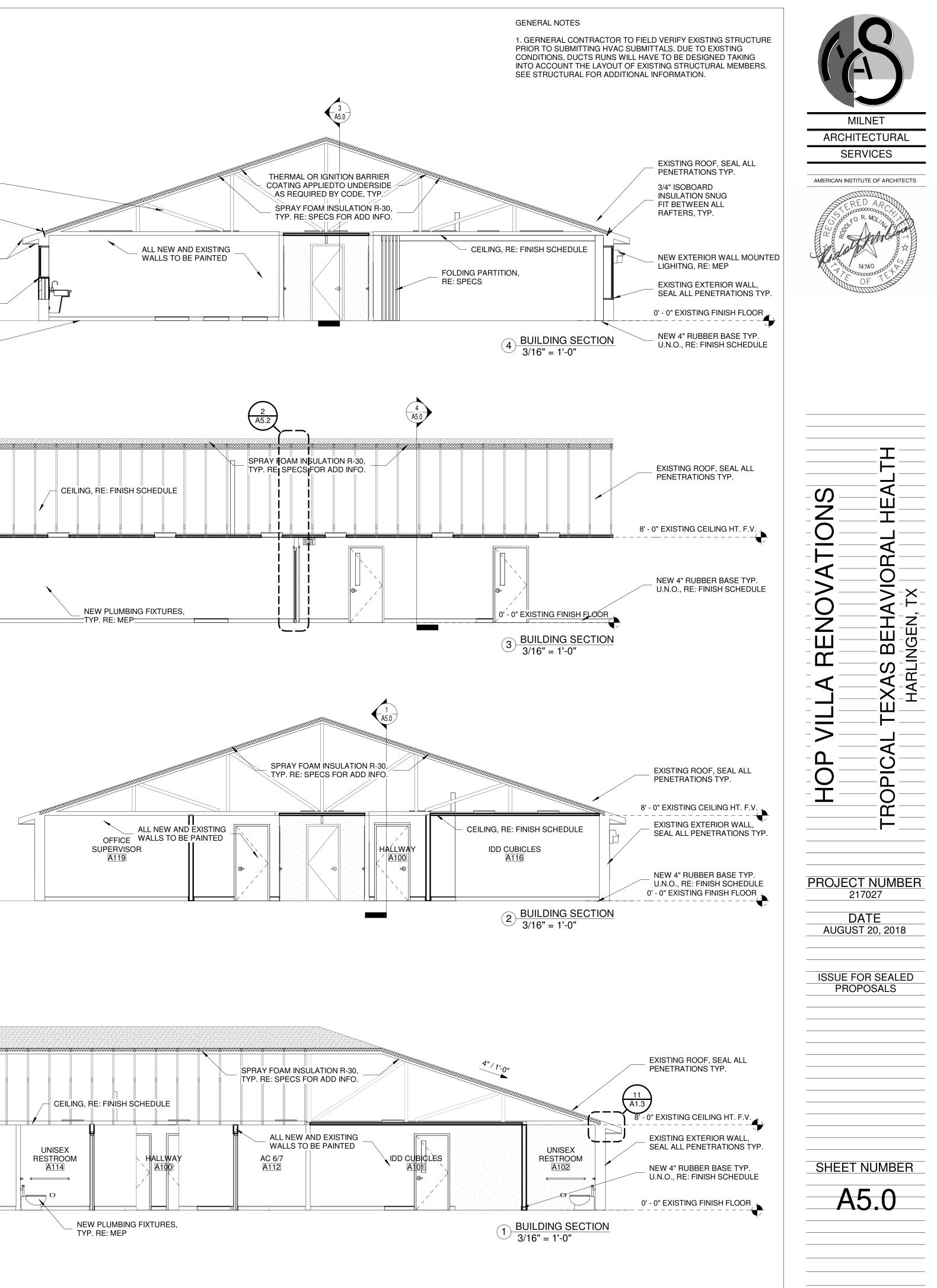
A4.2

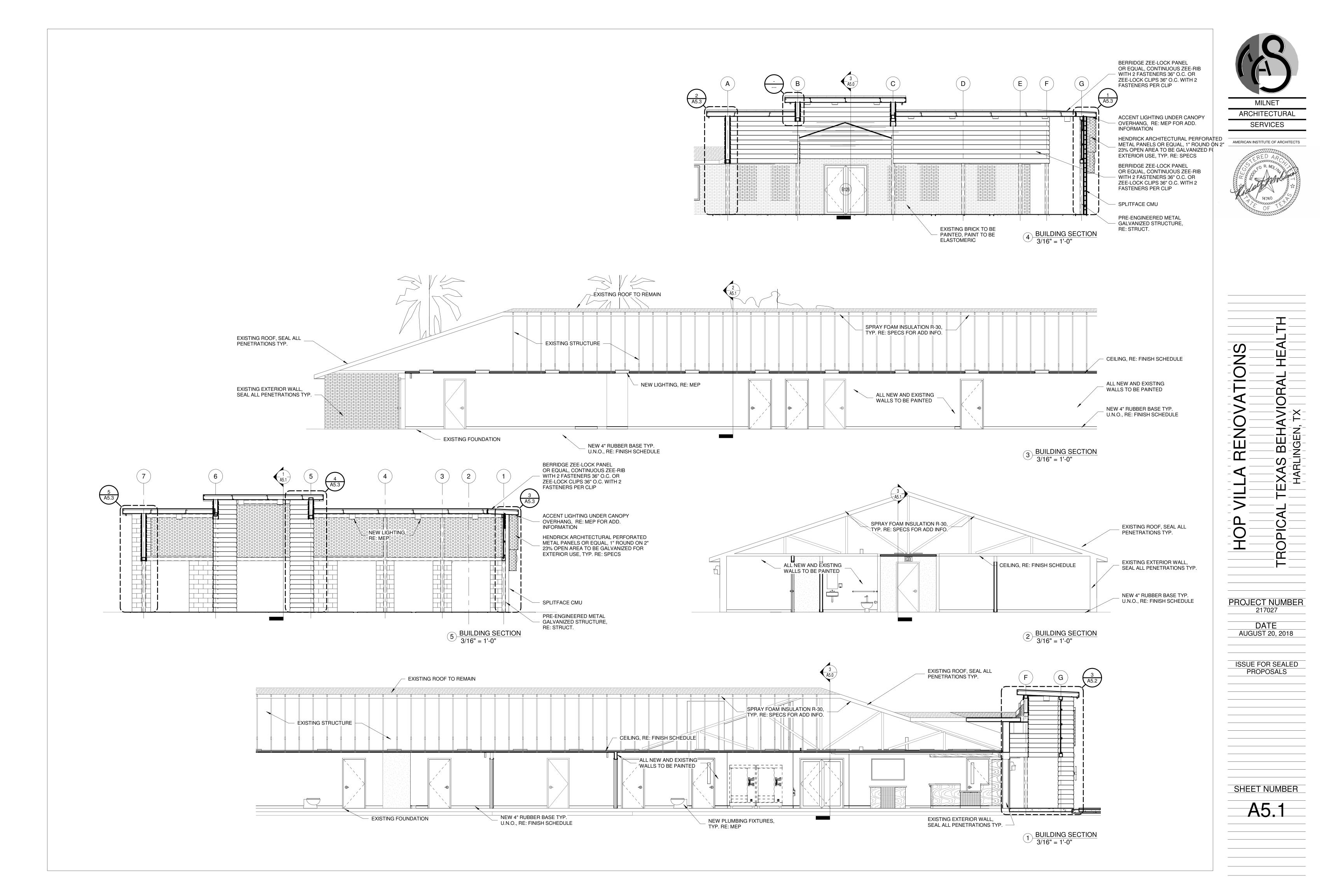


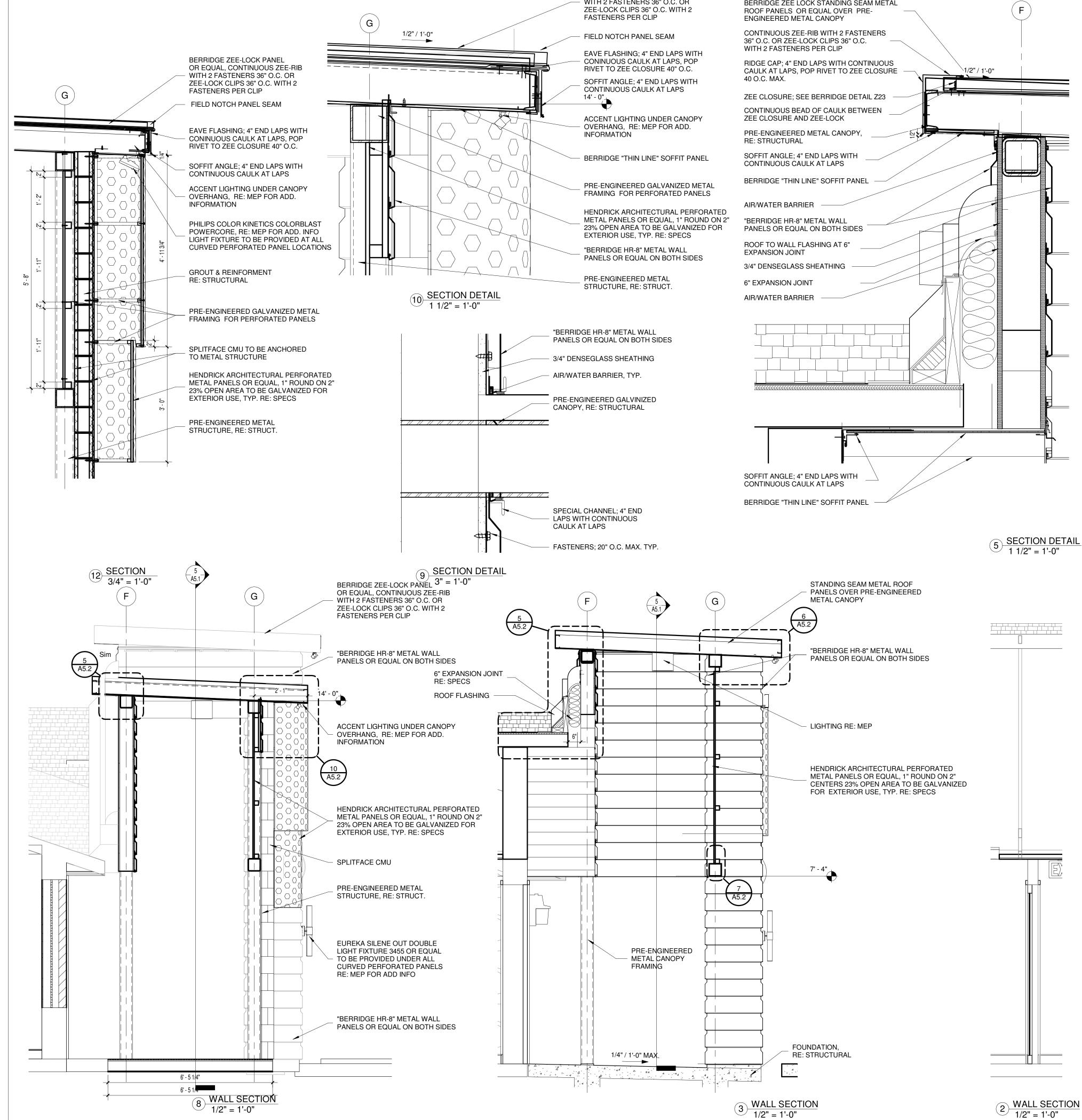


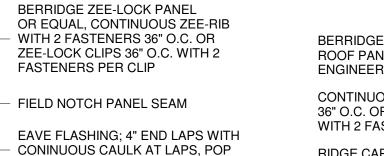






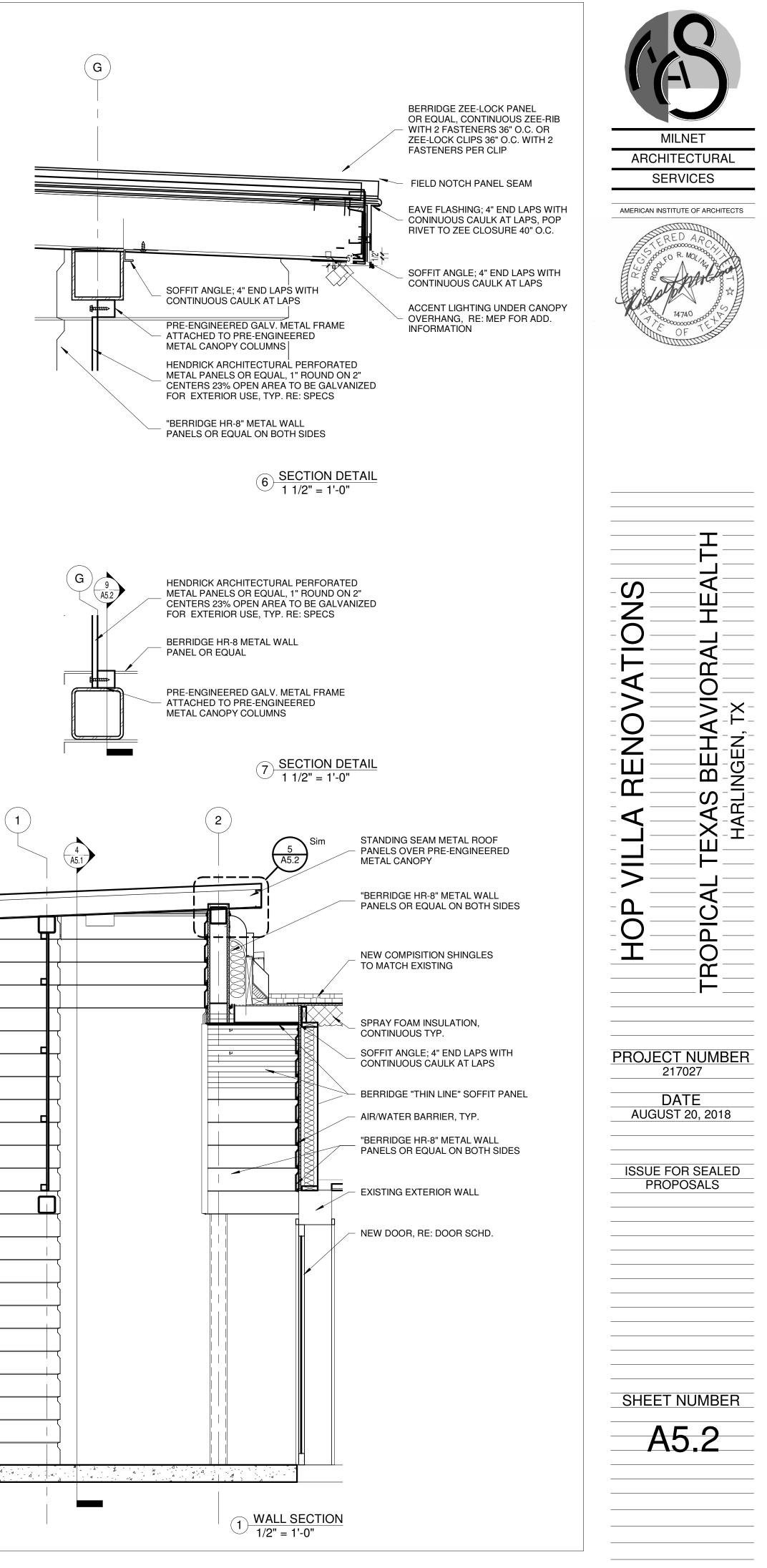


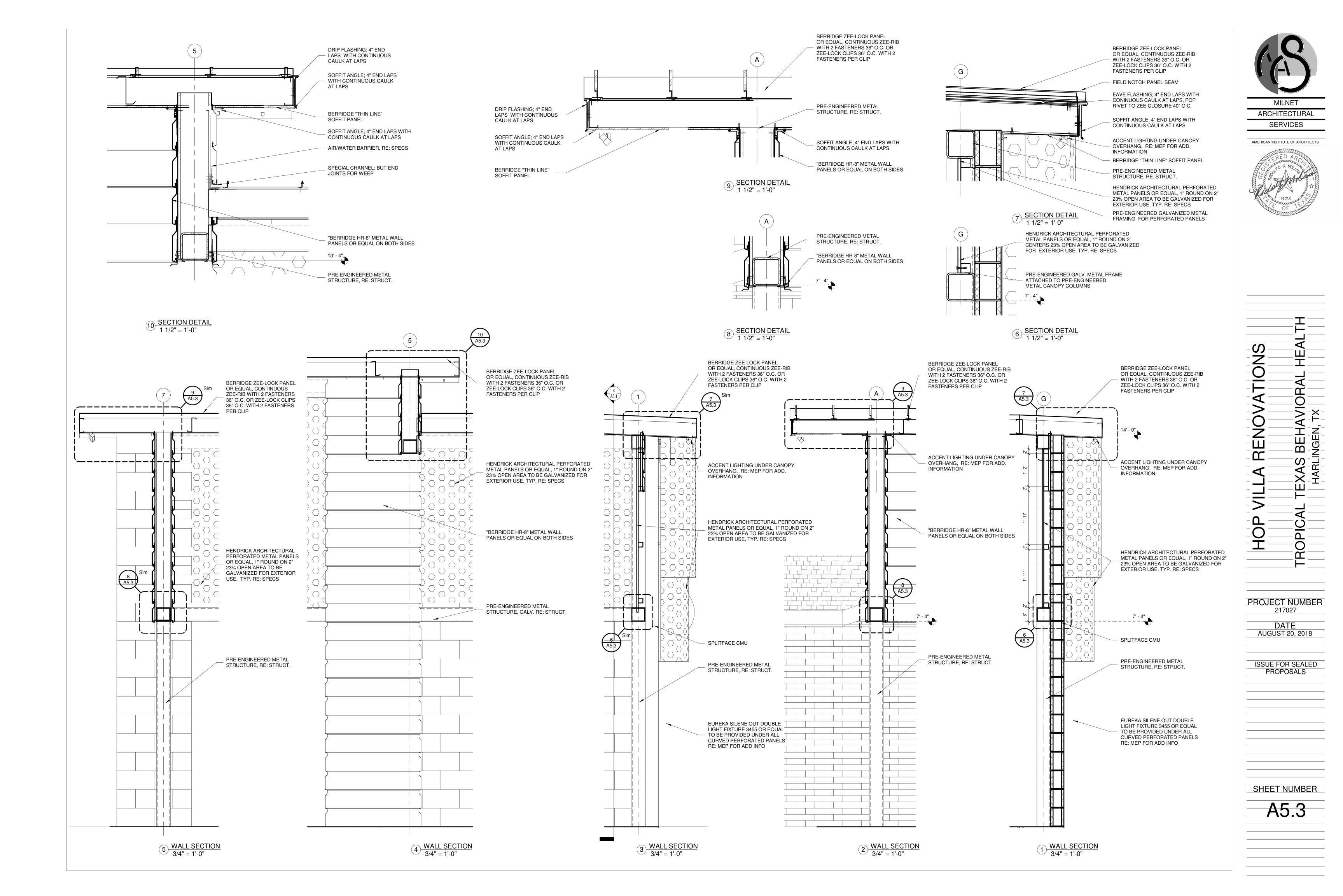


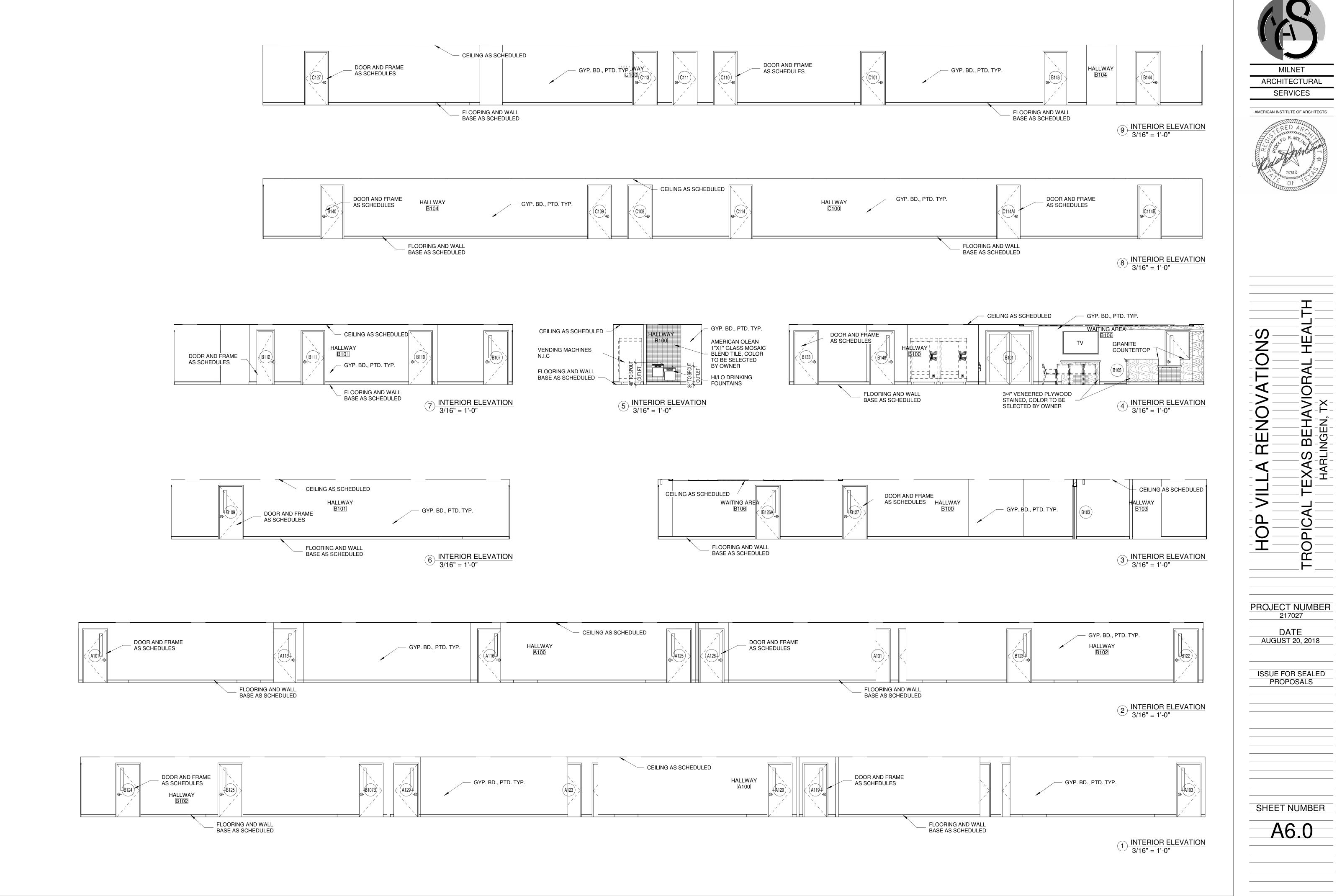


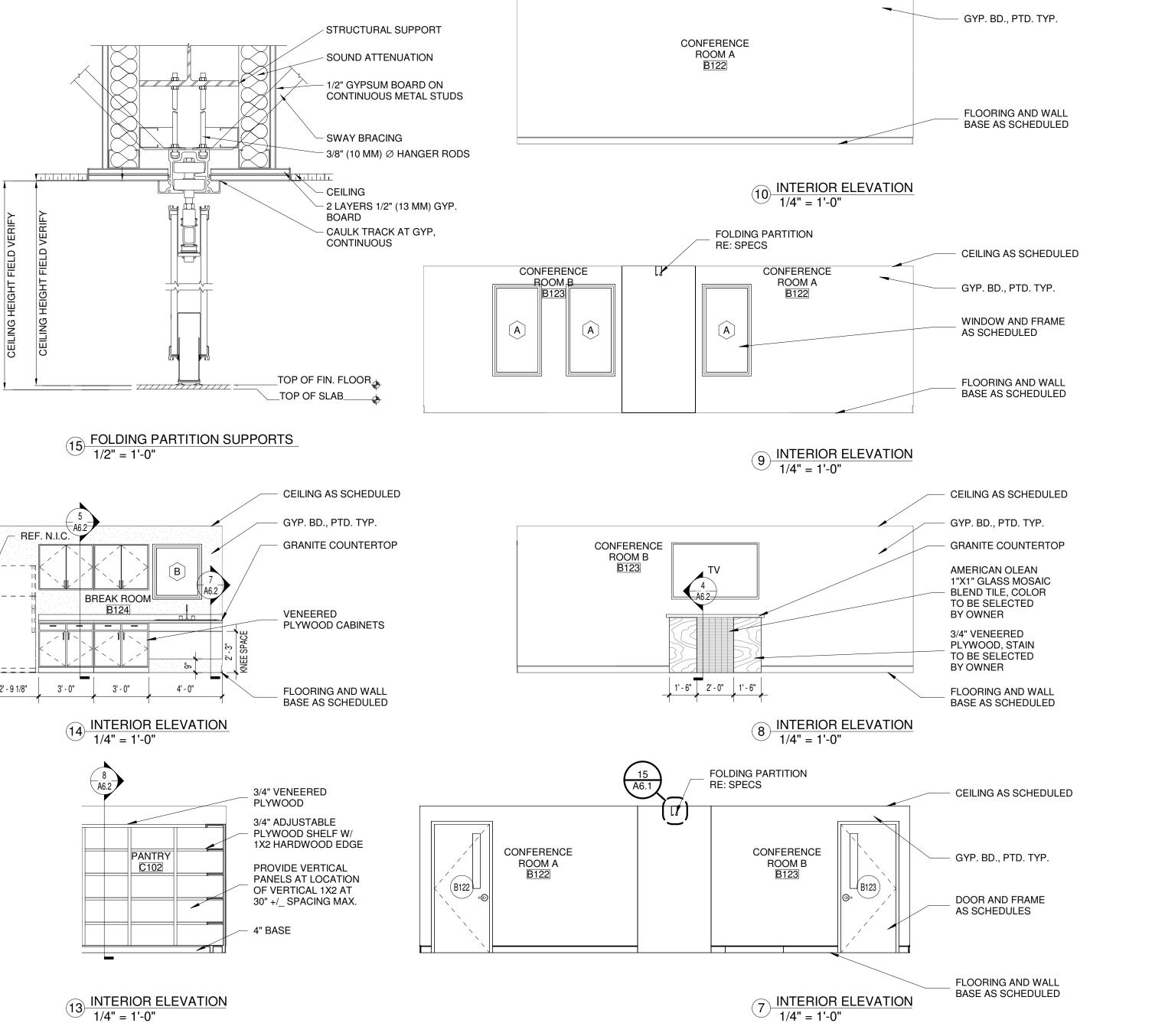
BERRIDGE ZEE LOCK STANDING SEAM METAL ROOF PANELS OR EQUAL OVER PRE- ENGINEERED METAL CANOPY	F
CONTINUOUS ZEE-RIB WITH 2 FASTENERS 36" O.C. OR ZEE-LOCK CLIPS 36" O.C. WITH 2 FASTENERS PER CLIP	
RIDGE CAP; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS, POP RIVET TO ZEE CLOSURE 40 O.C. MAX.	
ZEE CLOSURE; SEE BERRIDGE DETAIL Z23	
CONTINUOUS BEAD OF CAULK BETWEEN	
PRE-ENGINEERED METAL CANOPY, RE: STRUCTURAL	
SOFFIT ANGLE; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS	
BERRIDGE "THIN LINE" SOFFIT PANEL	
AIR/WATER BARRIER	-
"BERRIDGE HR-8" METAL WALL PANELS OR EQUAL ON BOTH SIDES	
ROOF TO WALL FLASHING AT 6" EXPANSION JOINT	
3/4" DENSEGLASS SHEATHING	
6" EXPANSION JOINT	
AIR/WATER BARRIER	
	<u>ل</u> الح
SOFFIT ANGLE; 4" END LAPS WITH	
BERRIDGE "THIN LINE" SOFFIT PANEL	

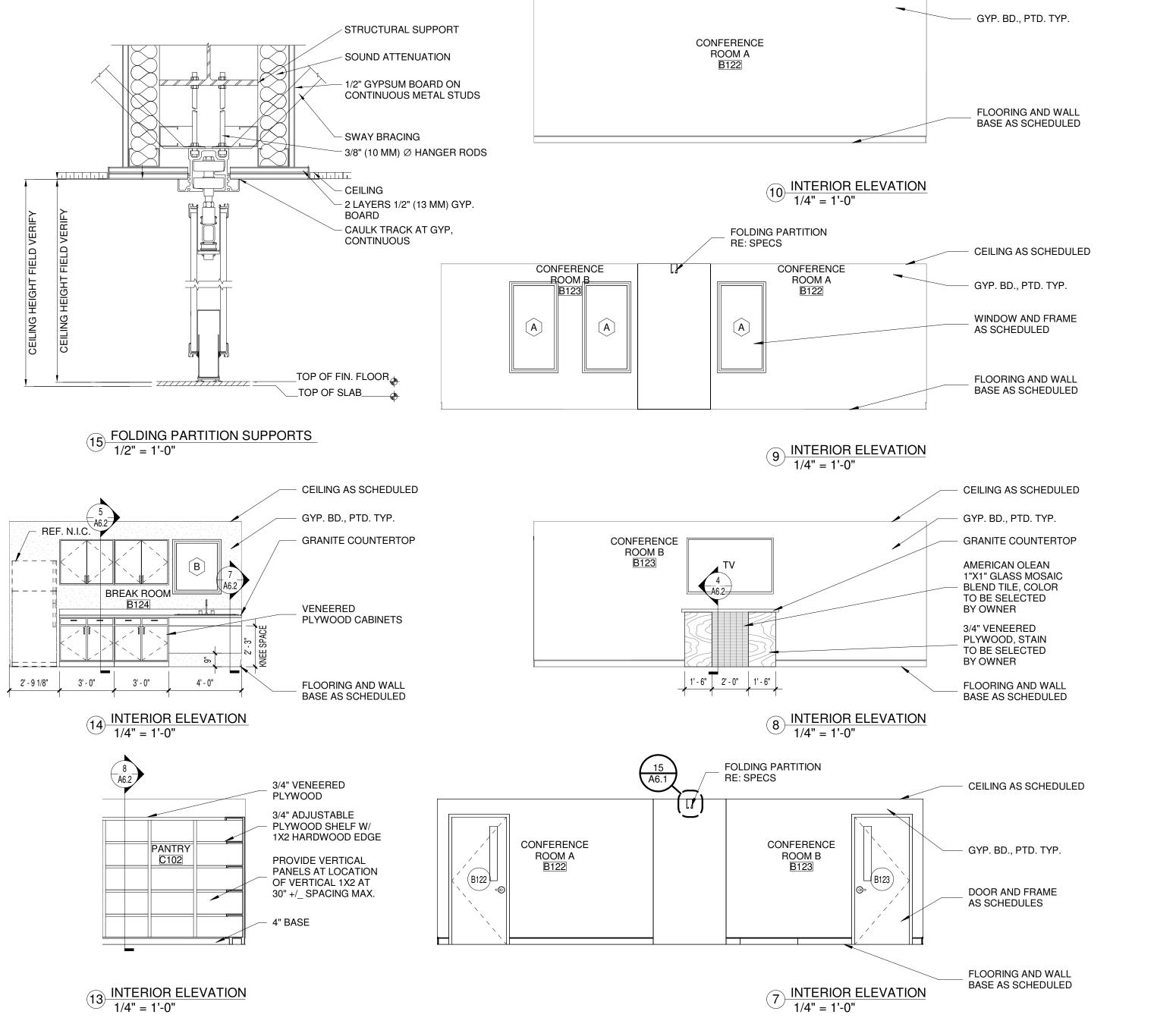
5 <u>SECTION DETAIL</u> 1 1/2" = 1'-0"

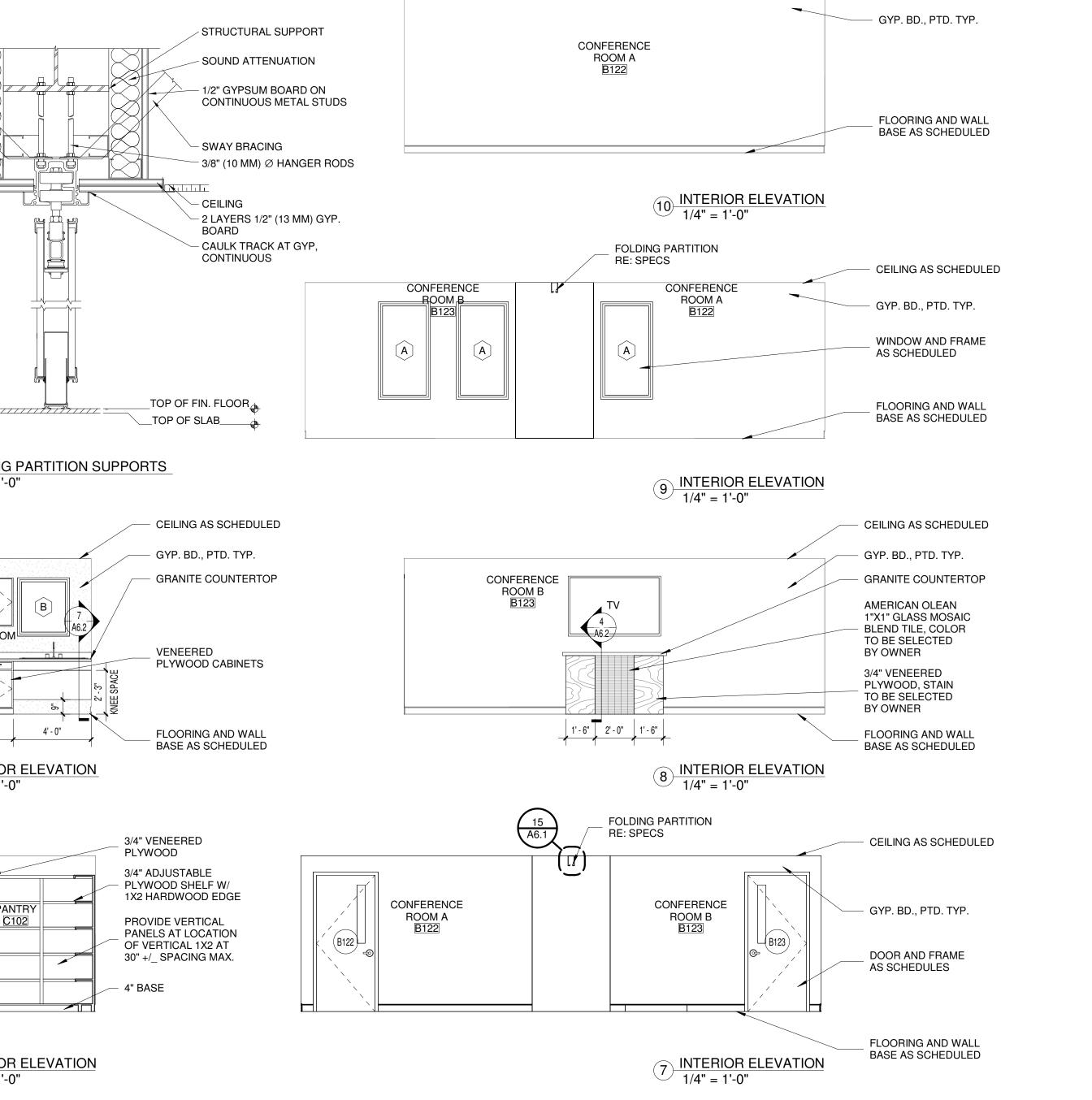


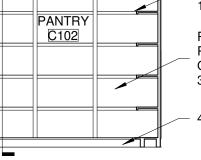


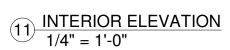


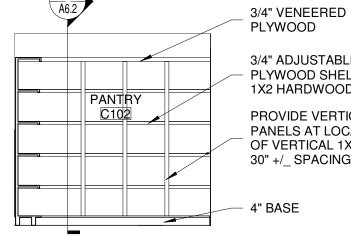














CEILING AS SCHEDULED

AMERICAN OLEAN 1"X1" GLASS MOSAIC BLEND TILE, COLOR TO BE SELECTED **BY OWNER**

3/4" VENEERED

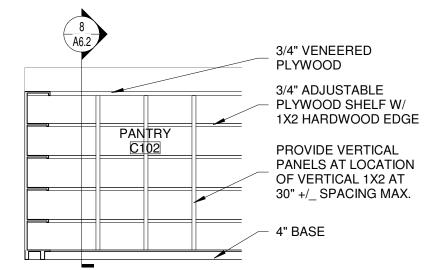
BY OWNER

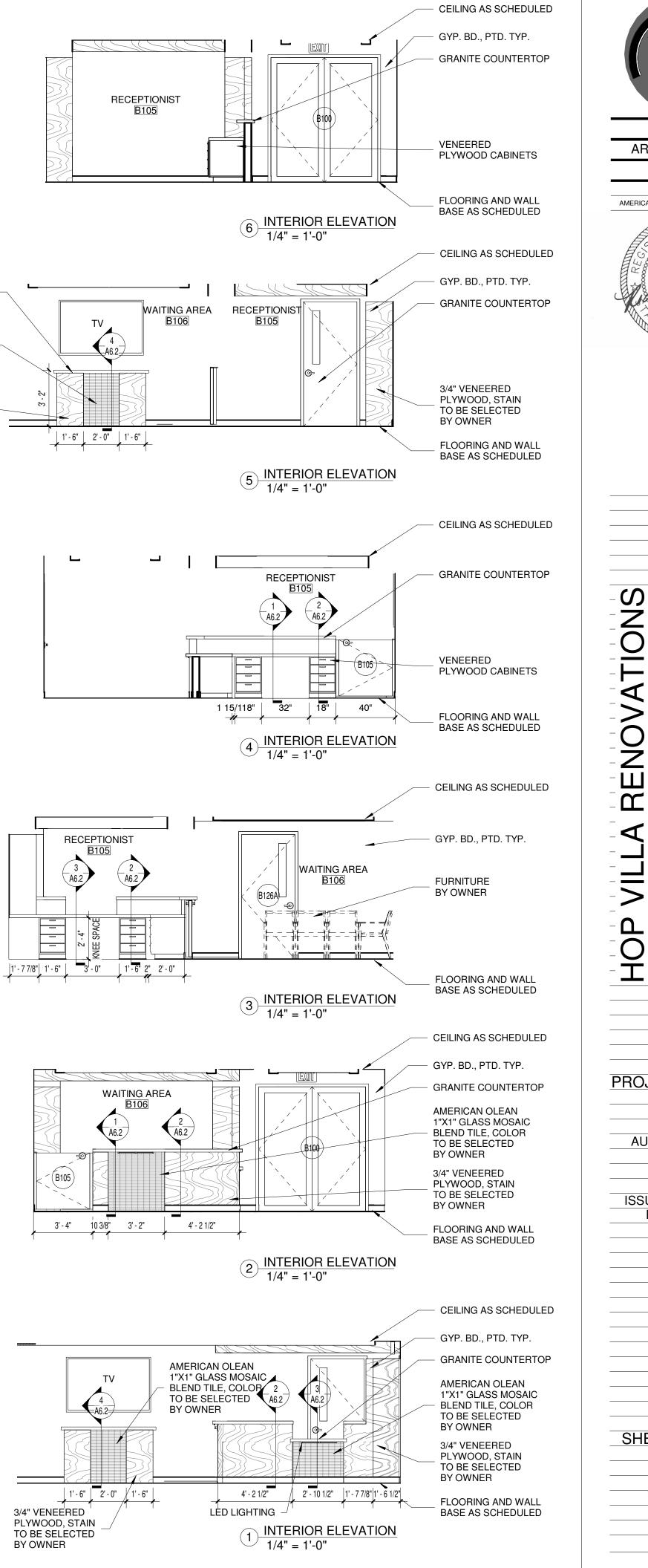
PLYWOOD, STAIN

TO BE SELECTED

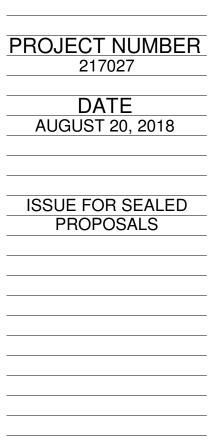
GRANITE COUNTERTOP

 $12 \frac{\text{INTERIOR ELEVATION}}{1/4" = 1'-0"}$



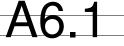


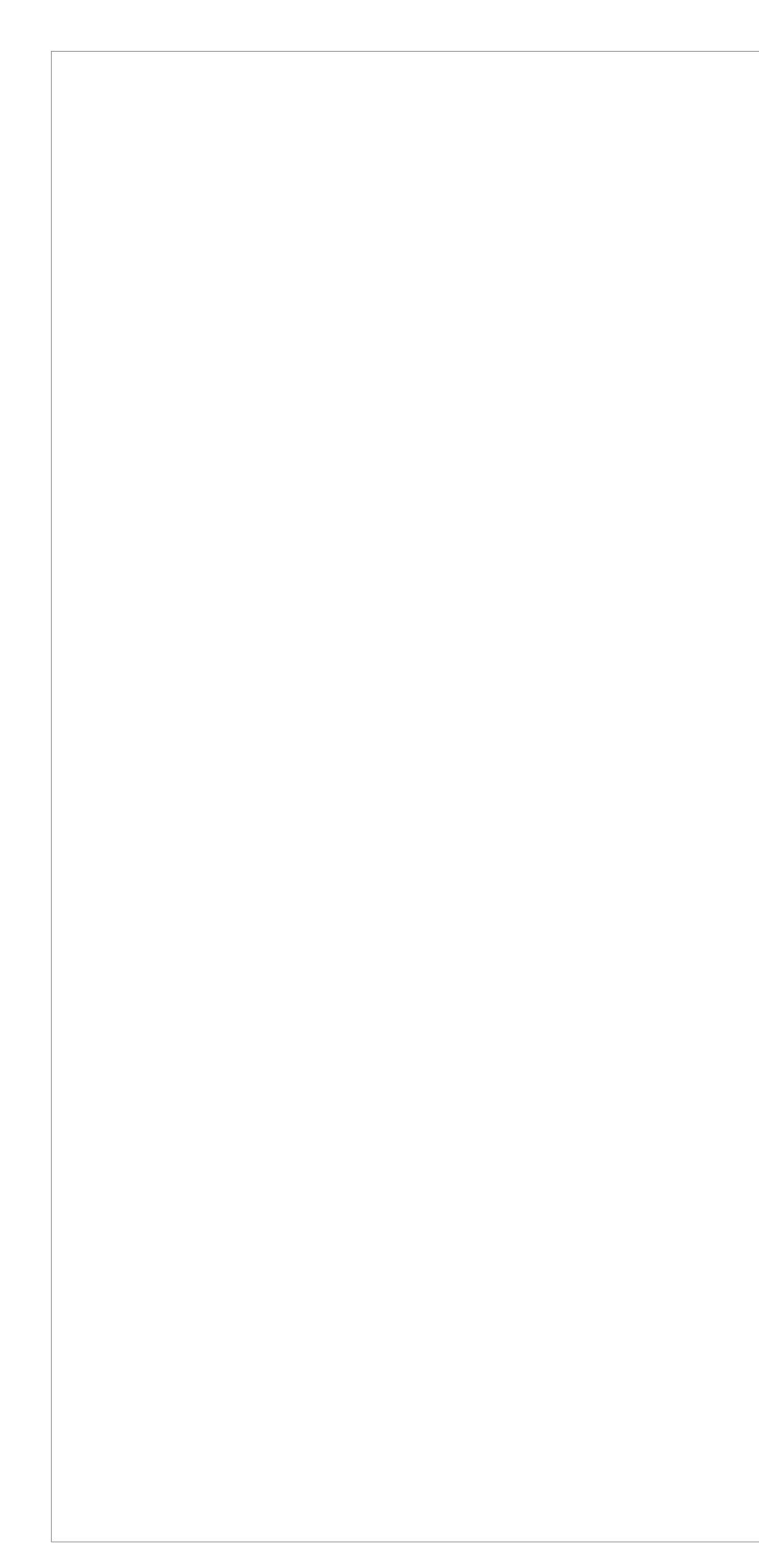


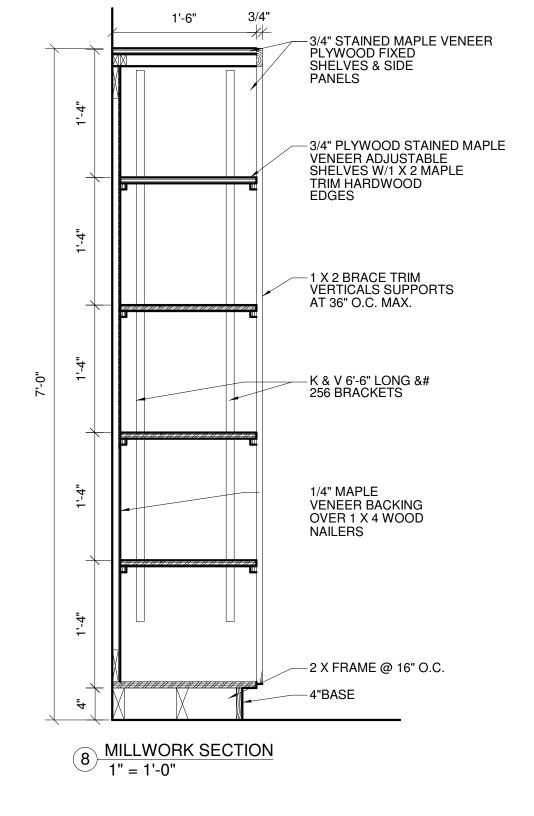


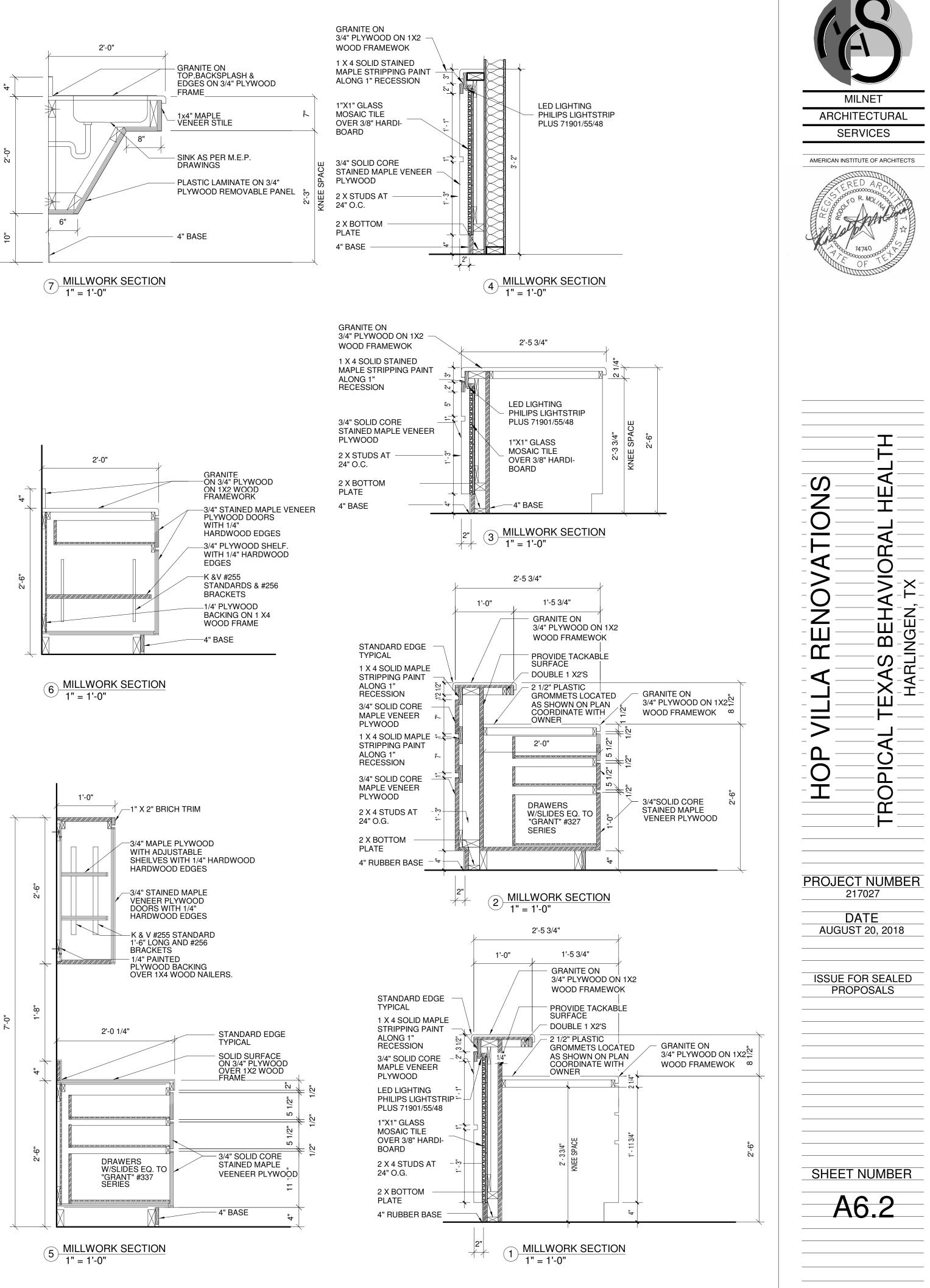
<u>ב</u>

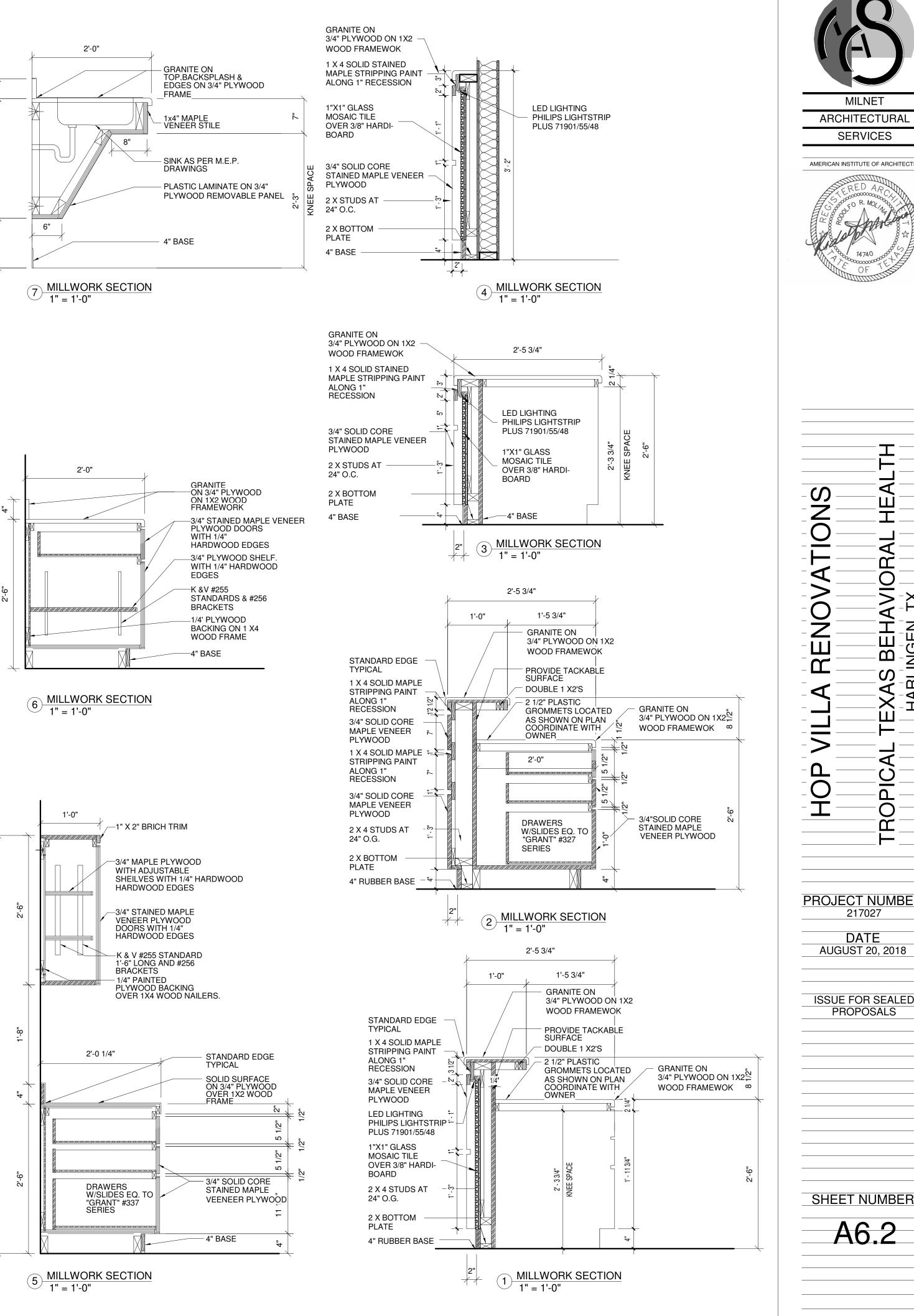
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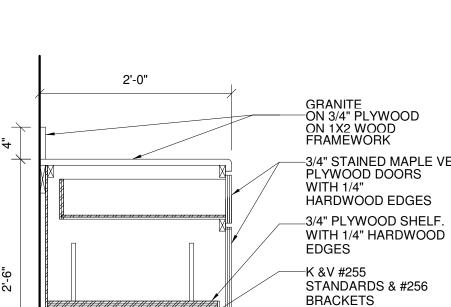


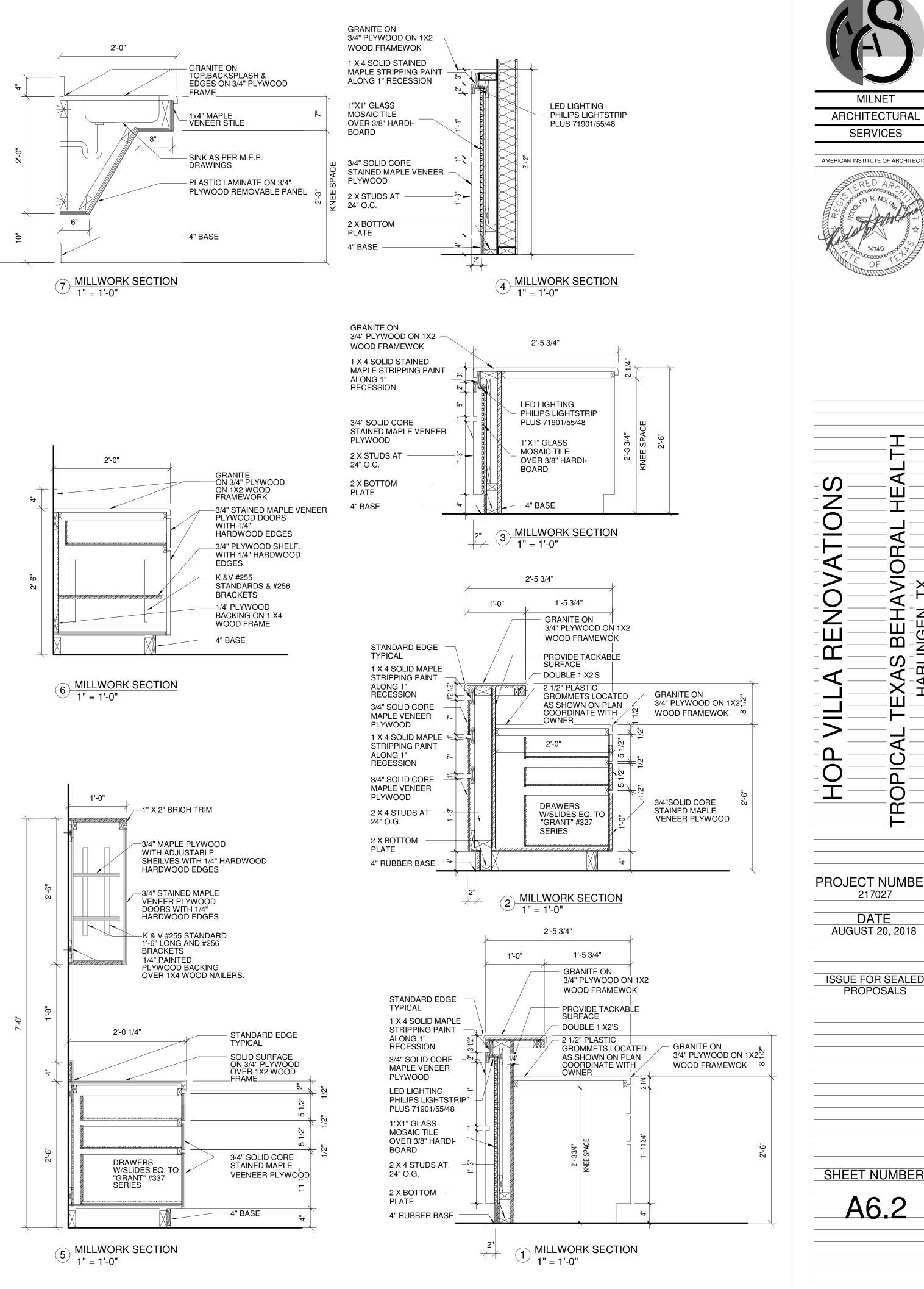












		DOOR				PAIR OR			FRAME	DOOR	HEAD	JAMB	SILL	
DOOR	DOOR LOCATION	TYPE	WIDTH	HEIGHT	THICKNESS	SINGLE	MATERIAL	FINISH	TYPE	HARDWARE	DETAIL	DETAIL	DETAIL	Comments
100	HALLWAY	EXST.		7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.		EXST.	EXST.	EXST.	2, 4, 5
101 102	IDD CUBICLES UNISEX RESTROOM	B D	3' - 0" 3' - 0"		0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD		B		4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
103	OPEN AREA	B	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	101	4/A7.1	5/A7.1	6/A7.1	
104 105	RESTROOM OFFICE	D B	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD SOLID CORE WOOD		B B		4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
105	OFFICE SUPERVISOR	B	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		B		4/A7.1	5/A7.1	6/A7.1	
07	STORAGE	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
08	AC 4/5 OFFICE SUPERVISOR	D B	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SINGLE	SOLID CORE WOOD		B B	203 103	4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
103	OFFICE SUPERVISOR	B	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		B		4/A7.1	5/A7.1	6/A7.1	
111	RESTROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		В	341	4/A7.1	5/A7.1	6/A7.1	
112 113	HALLWAY IDD CUBICLES	D B	3' - 0" 3' - 0"	7' - 0"	0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD SOLID CORE WOOD		B	101	4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
114	UNISEX RESTROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		B		4/A7.1	5/A7.1	6/A7.1	
115	STORAGE	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
116 117	IDD CUBICLES AC 8/9	B D	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD SOLID CORE WOOD		B	101 203	4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
118	AC 3/ELEC.	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		B		4/A7.1	5/A7.1	6/A7.1	
119	OFFICE SUPERVISOR	В	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		В	103	4/A7.1	5/A7.1	6/A7.1	
120 121	OFFICE MANAGER AC 1/2	B D	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD		B		4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
122	OFFICE INTAKE	B	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		B		4/A7.1	5/A7.1	6/A7.1	
123	OFFICE INTAKE	В	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
124 125	STORAGE TCCOOMMI	D B	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD		B B		4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
126	TCCOOMMI SUPERVISOR	В	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	103	4/A7.1	5/A7.1	6/A7.1	
127	STORAGE	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
128 129	UNISEX RESTROOM OFFICE CIS/IDD QA (2)	D B	3' - 0" 3' - 0"		0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD		B B	341 103	4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
130	UNISEX RESTROOM	D	3 - 0"	7'-0"	0'-2"	SINGLE	SOLID CORE WOOD		B		4/A7.1 4/A7.1	5/A7.1	6/A7.1	
131	MAIL/COPY ROOM	В	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В		4/A7.1	5/A7.1	6/A7.1	
132 133	OFFICE HR AC 10/11	B D	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD		B B	103 203	4/A7.1 4/A7.1	5/A7.1 5/A7.1	6/A7.1 6/A7.1	
100		D	5-0	1 - 0	0 - 2	OINCLE				200	4/7/.1	J/A7.1	0/87.1	
						DOOR SO	CHEDULE - SECTION B	3						
		DOOR				PAIR OR			FRAME	DOOR	HEAD	JAMB	SILL	
DOOR	DOOR LOCATION	TYPE	WIDTH	HEIGHT	THICKNESS	SINGLE	MATERIAL	FINISH	TYPE	HARDWARE	DETAIL	DETAIL	DETAIL	Comments
100	WAITING AREA		6' - 0"		0' - 2"	PAIR	ALUM. & GLASS	ANODIZED CLEAR		AW714A	1/A7.1	2/A7.1	3/A7.1	1
101	HALLWAY		6' - 0"		0' - 2"	PAIR	ALUM. & GLASS	ANODIZED CLEAR			10/A7.1	11/A7.1	12/A7.1	3
101A 102	HALLWAY HALLWAY	EXST.	2' - 10" 6' - 0"		0' - 2" 0' - 2"	SINGLE PAIR	EXST. ALUM. & GLASS	SAND & PAINT ANODIZED CLEAR	EXST.	800AV	EXST. 10/A7.1	EXST. 11/A7.1	EXST. 12/A7.1	4, 5
103	HALLWAY		6' - 0"		0' - 2"	PAIR	ALUM. & GLASS	ANODIZED CLEAR			10/A7.1	11/A7.1	12/A7.1	3
101			6' - 0"	7' - 0"	0' - 2"	PAIR	ALUM. & GLASS		•	800AV	10/A7.1	11/A7.1	12/A7.1	3
	HALLWAY				01 01			ANODIZED CLEAR						5
8104 8105 8107	RECEPTIONIST	F	3' - 0"	3' - 2"	0' - 2" 0' - 2"		SOLID CORE WOOD	PAINTED	E	403BB	4/A7.1	5/A7.1	6/A7.1	5
		F B		3' - 2" 7' - 0"	0' - 2" 0' - 2" 0' - 2"	SINGLE				403BB 501				
8105 8107 8107A 8107B	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMI	F B B B	3' - 0" 3' - 0" 3' - 0" 3' - 0"	3' - 2" 7' - 0" 7' - 0" 7' - 0"	0' - 2" 0' - 2" 0' - 2"	SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED	E B B B	403BB 501 501	4/A7.1 4/A7.1 4/A7.1 4/A7.1	5/A7.1 5/A7.1 5/A7.1 5/A7.1	6/A7.1 6/A7.1 6/A7.1 6/A7.1	
8105 8107 8107A 8107B 8108	RECEPTIONIST COPY/MAIL ROOM COPY/MAIL ROOM TCCOMMI MAINTENANCE OFFICE	F B B B B B	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0"	3' - 2" 7' - 0" 7' - 0" 7' - 0" 7' - 0"	0' - 2" 0' - 2" 0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED PAINTED	E B B B B	403BB 501 501 103	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1	
3105 3107 3107A 3107B 3107B 3108 3109	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNED	F B B B B B B B	3' - 0" 3' - 0" 3' - 0" 3' - 0"	3' - 2" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0"	0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED	E B B B	403BB 501 501 103	4/A7.1 4/A7.1 4/A7.1 4/A7.1	5/A7.1 5/A7.1 5/A7.1 5/A7.1	6/A7.1 6/A7.1 6/A7.1 6/A7.1	
105 107 107A 107B 107B 108 109 109A 109A	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFF	F B B B B B B B EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10"	3' - 2" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0"	0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST.	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT	E B B B B B B EXST.	403BB 501 501 103 101	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST.	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 EXST.	4, 5
105 107 107A 107B 107B 108 109 109A 110 111	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOM	F B B B B B B EXST. EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST.	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT	E B B B B B EXST. EXST.	403BB 501 501 103 101 101	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST.	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 EXST. EXST.	4, 5 4, 5
105 107 107A 107B 108 109 109A 110 111 111	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFF	F B B B B B B EXST. EXST. EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST.	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT	E B B B B B EXST. EXST.	403BB 501 501 103 101 101 101 203S	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST.	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 EXST.	4, 5
105 107 107A 107B 108 109 109A 110 111 112 113 113B	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOMHALLWAYMAINTENANCE EQMAINTENANCE EQ	F B B B B B EXST. EXST. EXST. B B EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 0" 3' - 0" 2' - 0" 2' - 10"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. EXST. SOLID CORE WOOD EXST.	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & STAIN PAINTED SAND & PAINT	E B B B B EXST. EXST. EXST. B EXST.	403BB 501 501 103 101 101 203S 201 403B	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. 4/A7.1 EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST. EXST. 5/A7.1 EXST. 5/A7.1 EXST.	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 EXST. EXST. EXST. 6/A7.1 EXST.	4, 5 4, 5 4, 5 4, 5 4, 5
105 107 107A 107B 108 109 109A 110 111 112 113 113B 114	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOMHALLWAYMAINTENANCE EQMAINTENANCE EQJANITORIAL SUPPLIES	F B B B B B EXST. EXST. EXST. B EXST. EXST. EXST. EXST. EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 10"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. SOLID CORE WOOD EXST. EXST.	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & STAIN PAINTED SAND & PAINT SAND & PAINT	E B B B B EXST. EXST. EXST. B EXST. EXST.	403BB 501 501 103 101 101 203S 201 403B 503	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. EXST. EXST. EXST. EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST. EXST. 5/A7.1 EXST. EXST. EXST.	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 EXST. EXST. EXST. EXST. EXST. EXST. EXST.	4, 5 4, 5 4, 5 4, 5 4, 5 4, 5
105 107 107A 107B 108 109 109A 110 111 112 113 113B 114	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOMHALLWAYMAINTENANCE EQMAINTENANCE EQ	F B B B B B EXST. EXST. B EXST. EXST. EXST. EXST. EXST. EXST. EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 10"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. EXST. SOLID CORE WOOD EXST.	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & STAIN PAINTED SAND & PAINT	E B B B B EXST. EXST. EXST. B EXST. EXST.	403BB 501 501 103 101 101 203S 201 403B 503 503	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. 4/A7.1 EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST. EXST. 5/A7.1 EXST. 5/A7.1 EXST.	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 EXST. EXST. EXST. 6/A7.1 EXST.	4, 5 4, 5 4, 5 4, 5 4, 5
105 107 107A 107B 108 109 109A 109 109A 110 111 112 113 113B 114 115 116 117	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOMHALLWAYMAINTENANCE EQJANITORIAL SUPPLIESMOP SINKRESTROOMMECH. ROOM	F B B B B B EXST. EXST. EXST. EXST. EXST. D B	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 10" 2' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 3' - 0" 3' - 0" 3' - 0" 3' - 0"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. EXST. EXST. EXST. EXST. SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & STAIN PAINTED SAND & PAINT SAND & PAINT SAND & PAINT PAINTED PAINTED	E B B B B EXST. EXST. EXST. EXST. EXST. EXST. B B B	403BB 501 501 103 103 101 101 203S 201 403B 503 503 343B 002	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. EXST. EXST. EXST. EXST. 4/A7.1 4/A7.1 4/A7.1	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST. EXST. EXST. EXST. EXST. EXST. 5/A7.1 5/A7.1 5/A7.1	6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 6/A7.1 EXST. EXST. EXST. EXST. EXST. EXST. EXST. EXST. 6/A7.1 EXST. 6/A7.1 6/A7.1	4, 5 4, 5 4, 5 4, 5 4, 5 4, 5
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105 107A 107B 107B 107B 107B 107B 107B 109A 1109 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126A 127 128 129 130 131 132 133 134 135 136 137 138 139	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOMHALLWAYMAINTENANCE EQMAINTENANCE EQJANITORIAL SUPPLIESMOP SINKRESTROOMMECH. ROOMSTORAGEACWHELEC ROOM/ MDFCONFERENCE ROOM ACONFERENCE ROOM ACONFERENCE ROOM BBREAK ROOMOFFICE SHARED(4)CLINICCLINICHALLWAYRECEPTIONISTPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEVANSEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMWHALLWAYUNASSIGNEDMISMOP ROOMWHAC	F B B B B B EXST. B D D EXST. B D EXST. EXST. EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 3' - 0" 3' - 0"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. EXST. SOLID CORE WOOD EXST. EXST. SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT PAINTED	E B B B B B B EXST. EXST. EXST. EXST. EXST. EXST. EXST. B B B B B B B B B B B B B B B B B B B	403BB 501 501 103 103 101 101 203S 201 403B 503 503 343B 002 203 203 201 403B 503 503 343B 002 203 201 501 401 101 501 401 101 AW714A CZ221 501 403BB 101 101 101 341 341 341 341 341 341 341 34	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. EXST. 4/A7.1 EXST. EXST. 4/A7.1 4/A7	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST. EXST. EXST. EXST. 5/A7.1 5/A	6/A7.1 EXST. EXST. 6/A7.1 EXST. 6/A7.1 EXST. 6/A7.1 6/A7.1 <td>4, 5 4, 5 4, 5 4, 5 4, 5 4, 5 4, 5 4, 5</td>	4, 5 4, 5 4, 5 4, 5 4, 5 4, 5 4, 5 4, 5
105 107A 107B 107B 107B 109 109A 110 111 112 113 114 115 116 117 118 112 113 114 115 116 117 118 1120 1212 122 123 124 125 126A 127 128 129 130 131 132 133 134 135 136 137 138 139 140	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDIDD RESPITE ROOMHALLWAYMAINTENANCE EQJANITORIAL SUPPLIESMOP SINKRESTROOMMECH. ROOMSTORAGEACWHELEC ROOM/ MDFCONFERENCE ROOM ACONFERENCE ROOM ACONFERENCE ROOM BBREAK ROOMOFFICE SHARED(4)CLINICCLINICCLINICPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEVINISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMHALLWAYUNASSIGNEDMISMOP ROOMWHACHALLWAY	F B B B B B EXST. EXST. EXST. EXST. EXST. EXST. EXST. EXST. EXST. B EXST. EXST. B D <trr> D<</trr>	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 2' - 10"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SI	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. EXST. SOLID CORE WOOD EXST. EXST. SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT PAINTED SAND & PAINT SAND & PAINT SAND & STAIN SAND & STAIN	E B B B B B B EXST. EXST. EXST. EXST. EXST. EXST. B B B B B B B B B B B B B B B B B B B	403BB 501 501 103 103 103 101 101 203S 201 403B 503 503 503 343B 002 203 203 201 403B 503 503 343B 002 203 201 501 501 501 501 501 501 501 401 101 AW714A CZ221 501 403BB 101 101 101 341 341 341 341 341 341 341 34	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. EXST. EXST. 4/A7.1 EXST. EXST. EXST. EXST. EXST. EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST. EXST. EXST. EXST. 5/A7.1	6/A7.1 EXST. EXST. EXST. EXST. 6/A7.1 EXST. EXST. 6/A7.1	4, 5 4, 5
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105 107A 107B 109A 1109A 1110 1112 113 1113 1114 115 116 117 118 119 122 123 124 125 126A 127 128 129 130 1313 132 133 134 135 136 137 138 139 140 141 142 143	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOMHALLWAYMAINTENANCE EQMAINTENANCE EQJANITORIAL SUPPLIESMOP SINKRESTROOMMECH. ROOMSTORAGEACWHELEC ROOM/ MDFCONFERENCE ROOM ACONFERENCE ROOM BBREAK ROOMOFFICE SHARED(4)CLINICCLINICHALLWAYRECEPTIONISTPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMWHACHALLWAYUNASSIGNEDMISMOP ROOMWHACHALLWAYOPEN AREABEDROOMRESTROOMRESTROOM	F B B B B B EXST. B D D EXST. B D D EXST. EXST. EXST. EXST. EXST. EXST. EXST. EXST.	3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 3' - 0" 3' - 0"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SI	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. EXST. SOLID CORE WOOD EXST. EXST. SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT PAINTED SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT PAINTED	E B B B B B EXST. EXST. EXST. EXST. EXST. EXST. EXST. B B B B B B B B B B B B B B B B B B B	403BB 501 501 103 103 103 101 101 203S 201 403B 503 503 503 343B 002 203 203 201 403B 503 503 343B 002 203 201 501 401 101 501 401 101 401 101 AW714A CZ221 501 403BB 101 101 101 341 341 341 341 341 341 341 34	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. EXST. 4/A7.1 EXST. EXST. 4/A7.1 4/A7	5/A7.1 EXST. EXST. EXST. EXST. 5/A7.1 EXST. EXST. 5/A7.1	6/A7.1 EXST. EXST. 6/A7.1 EXST. 6/A7.1 EXST. 6/A7.1 EXST. EXST. EXST. EXST. EXST.	4, 5 4, 5
105 107A 107B 107B 109A 109A 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	RECEPTIONISTCOPY/MAIL ROOMCOPY/MAIL ROOMTCCOMMIMAINTENANCE OFFICEUNASSIGNEDUNASSIGNEDFINANCIAL STAFFIDD RESPITE ROOMHALLWAYMAINTENANCE EQMAINTENANCE EQJANITORIAL SUPPLIESMOP SINKRESTROOMMECH. ROOMSTORAGEACWHELEC ROOM/ MDFCONFERENCE ROOM ACONFERENCE ROOM ACONFERENCE ROOM AOFFICE SHARED(4)CLINICHALLWAYRECEPTIONISTPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEPRIVATE OFFICEUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMUNISEX RESTROOMWHACMOP ROOMWHACHALLWAYOPEN AREABEDROOM	F B B B B B EXST. B B B B B B B B B B B B B B B B B D D EXST. B D EXST.	3' - 0" 3' - 0" 2' - 10" 2' - 10" 3' - 0" 3' - 0" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 2' - 10" 2' - 10"	3' - 2" 7' - 0" 7' - 0"	0' - 2" 0' - 2"	SINGLE SI	SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD SOLID CORE WOOD EXST. EXST. SOLID CORE WOOD EXST. EXST. SOLID CORE WOOD SOLID CORE WOOD	PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED PAINTED SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT PAINTED SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT SAND & PAINT	E B B B B B B EXST. EXST. EXST. EXST. EXST. EXST. B B B B B B B B B B B B B B B B B B B	403BB 501 501 103 103 103 101 101 203S 201 403B 503 503 503 343B 002 203 203 201 203 203 201 501 201 501 501 401 101 501 501 401 101 101 403BB 101 101 403BB 101 101 101 341 341 341 341 341 341 341 341 341 34	4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 4/A7.1 EXST. EXST. EXST. EXST. 4/A7.1 EXST. EXST. 4/A7.1 EXST. EXST. EXST. EXST. EXST. EXST. EXST. EXST.	5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 5/A7.1 EXST. EXST. EXST. EXST. 5/A7.1	6/A7.1 EXST. EXST. 6/A7.1 EXST. 6/A7.1 EXST. 6/A7.1 EXST. EXST.	4, 5 4, 5 5 5 5 5 5 5 5

						DOOR SCI	HEDULE - SECTION C							
DOOR	DOOR LOCATION	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	PAIR OR SINGLE	MATERIAL	FINISH	FRAME TYPE	DOOR HARDWARE	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	Comments
C100	HALLWAY	EXST.	3' - 0"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.	001	EXST.	EXST.	EXST.	2
C101	HALLWAY	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B503	4/A7.1	5/A7.1	6/A7.1	
C102	KITCHEN	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B503	4/A7.1	5/A7.1	6/A7.1	
C104	STORAGE	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B203	4/A7.1	5/A7.1	6/A7.1	
C105	OPEN AREA	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B343	4/A7.1	5/A7.1	6/A7.1	
C106	OPEN AREA	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B403	4/A7.1	5/A7.1	6/A7.1	
C107	OPEN AREA	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B403	4/A7.1	5/A7.1	6/A7.1	
C108	AC 1/2	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B203	4/A7.1	5/A7.1	6/A7.1	
C109	OPEN AREA	EXST.	2' - 10"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.	B403	EXST.	EXST.	EXST.	4, 5
C110	UNASSIGNED	EXST.	2' - 10"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.		EXST.	EXST.	EXST.	4, 5
C110A	UNASSIGNED	E	6' - 0"	7' - 0"	0' - 2"	PAIR	INS. HOLLOW METAL	PAINTED	D	W214	7/A7.1	8/A7.1	9/A7.1	
C111	ELEC.	EXST.	3' - 0"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.		EXST.	EXST.	EXST.	
C112	OFFICE	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B103	4/A7.1	5/A7.1	6/A7.1	
C113	AC 8/9	EXST.	3' - 0"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.		EXST.	EXST.	EXST.	
C114	HALLWAY	EXST.	2' - 10"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.	B403	EXST.	EXST.	EXST.	4, 5
C114A	OPEN AREA	EXST.	2' - 10"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.	B403	EXST.	EXST.	EXST.	4, 5
C114B	HALLWAY	EXST.	2' - 10"	7' - 0"	0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.	B403	EXST.	EXST.	EXST.	4, 5
C115	BEDROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B403	4/A7.1	5/A7.1	6/A7.1	
C116	BEDROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B403	4/A7.1	5/A7.1	6/A7.1	
C117	RESTROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B343	4/A7.1	5/A7.1	6/A7.1	
C118	BEDROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B403	4/A7.1	5/A7.1	6/A7.1	
C119	RESTROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B343	4/A7.1	5/A7.1	6/A7.1	
C120	BEDROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В		4/A7.1	5/A7.1	6/A7.1	
C121	W/D	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B503	4/A7.1	5/A7.1	6/A7.1	
C122	RESTROOM	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B343	4/A7.1	5/A7.1	6/A7.1	
C123	OFFICE	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B103	4/A7.1	5/A7.1	6/A7.1	
C125	OFFICE	D	3' - 0"	7' - 0"	0' - 2"	SINGLE	SOLID CORE WOOD	PAINTED	В	B103	4/A7.1	5/A7.1	6/A7.1	
C126	AC 6/7	D	3' - 0"		0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
C127	LEISURE ROOM	EXST.	2' - 10"		0' - 2"	SINGLE	EXST.	SAND & PAINT	EXST.		EXST.	EXST.	EXST.	4, 5
C128	BEDROOM	D	3' - 0"		0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
	BEDROOM	D	3' - 0"		0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
	RESTROOM		3' - 0"		0' - 2"	SINGLE	SOLID CORE WOOD		В		4/A7.1	5/A7.1	6/A7.1	
	KEY NOTES		1	1		1	1	1	1	1	1			1

DOOR KEY NOTES

2.

ADA PUSH TO OPEN HARDWARE 1.

3.

4.

ADA FOSH TO OFEN HARDWARE CARD READER ON OUTSWING SIDE CARD READER ON BOTH SIDES EXISTING FIELD VERIFY SIZE, AND FINISH CONDITIONS. EXISTING DOOR, PROVIDE VISION PANEL RE: DOOR TYPE B FOR VISION PANEL INFORMATION. EXCEPT IF DOOR IS FOR BEDROOMS, RESTROOM, MECH, ELEC, RISER, WH ROOMS. DOOR RELEASE BOTTON PROVIDED AT RECEPTIONIST DESK, B105 & B127 5. 6.

GENERAL NOTES

1. IF A DOOR IS NOT LISTED ON THE HARDWARE SET SPECIFICATIONS, HARDWARE IS TO BE PROVIDED AS IN SIMILAR ROOMS.



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PROJECT NUMBER 217027

DATE AUGUST 20, 2018

ISSUE FOR SEALED PROPOSALS

SHEET NUMBER

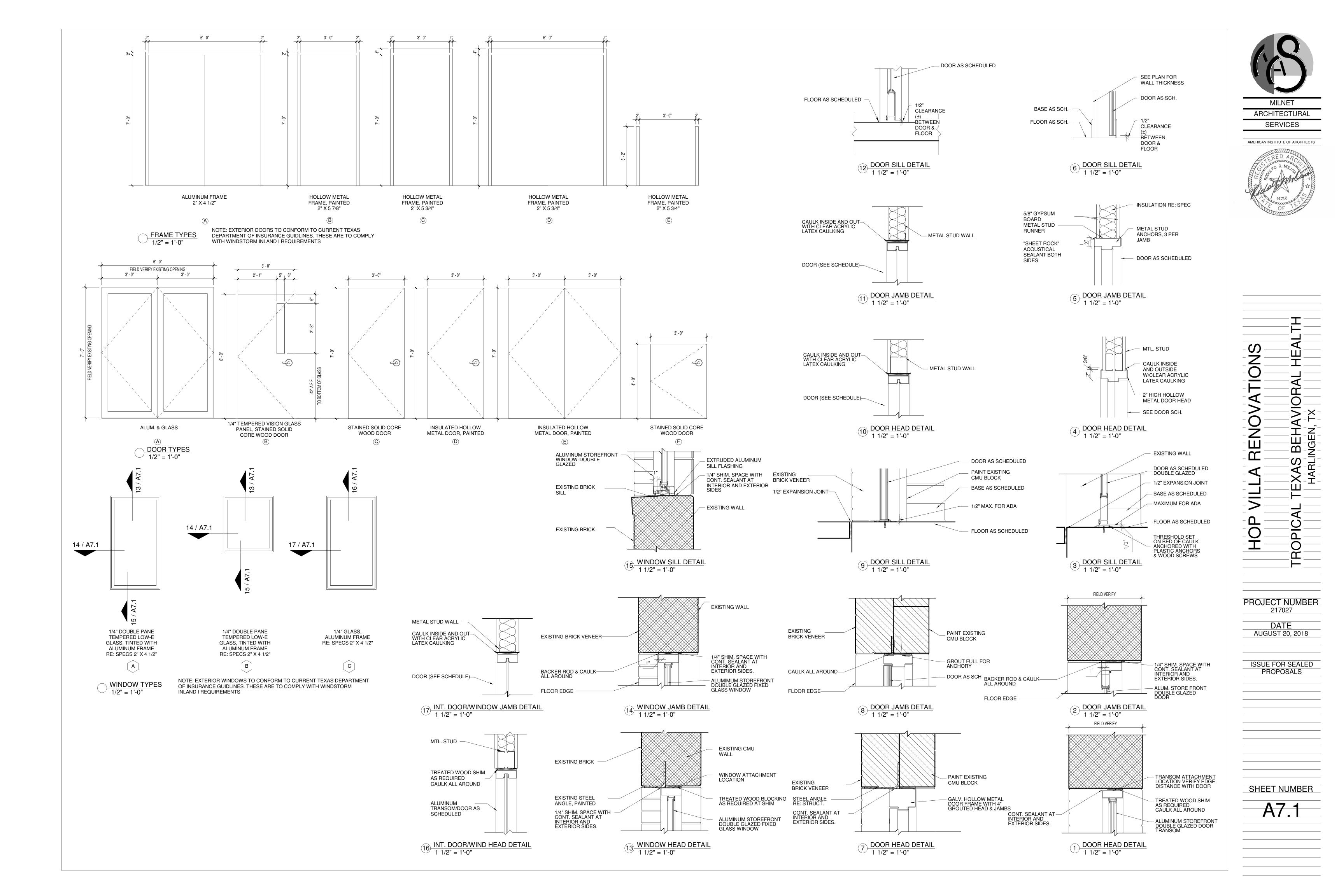
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Number	Name	FINISH KEY NOTE	WALLS	BASE	FLOOR	CEILING	Comments
A100	HALLWAY	F1	W-1	B-1	CT-1	AC-1	
A101	IDD CUBICLES	F2	W-1	B-1	CT-1	GB-1	
A102	UNISEX RESTROOM	F3	W-1	B-2	CT-2	GB-2	
A103	OPEN AREA	F2	W-1	B-1	CT-1	GB-1	
A104	RESTROOM	F3	W-1	B-2	CT-2	GB-2	
A105	OFFICE	F2	W-1	B-1	CT-1	GB-1	
A106	OFFICE SUPERVISOR	F2	W-1	B-1	CT-1	GB-1	
A107	STORAGE	F2	W-1	B-1	CT-1	GB-1	
A108	AC 4/5	F4	W-1	B-1	SC	GB-2	
A109	OFFICE SUPERVISOR	F2	W-1	B-1	CT-1	GB-1	
A110	OFFICE SUPERVISOR	F2	W-1	B-1	CT-1	GB-1	
A111	RESTROOM	F3	W-1	B-2	CT-2	GB-2	
A112	AC 6/7	F4	W-1	B-1	SC	GB-2	
A113	IDD CUBICLES	F2	W-1	B-1	CT-1	GB-1	
A114	UNISEX RESTROOM	F3	W-1	B-2	CT-2	GB-2	
A115	STORAGE	F2	W-1	B-1	CT-1	GB-1	
A116	IDD CUBICLES	F2	W-1	B-1	CT-1	GB-1	
A117	AC 8/9	F4	W-1	B-1	SC	GB-2	
A118	AC 3/ELEC.	F4	W-1	B-1	SC	GB-2	
A119	OFFICE SUPERVISOR	F2	W-1	B-1	CT-1	GB-1	
A120	OFFICE MANAGER	F2	W-1	B-1	CT-1	GB-1	
A121	AC 1/2	F4	W-1	B-1	SC	GB-2	
A122	OFFICE INTAKE	F2	W-1	B-1	CT-1	GB-1	
A123	OFFICE INTAKE	F2	W-1	B-1	CT-1	GB-1	
A124	STORAGE	F2	W-1	B-1	CT-1	GB-1	
A125	ТССООММІ	F2	W-1	B-1	CT-1	GB-1	
A126	TCCOOMMI SUPERVISOR	F2	W-1	B-1	CT-1	GB-1	
A127	STORAGE	F2	W-1	B-1	CT-1	GB-1	
A128	UNISEX RESTROOM	F3	W-1	B-2	CT-2	GB-2	
A129	OFFICE CIS/IDD QA (2)	F2	W-1	B-1	CT-1	GB-1	
A130	UNISEX RESTROOM	F3	W-1	B-2	CT-2	GB-2	
A131	MAIL/COPY ROOM	F2	W-1	B-1	CT-1	GB-1	
A132	OFFICE HR	F2	W-1	B-1	CT-1	GB-1	
A133	AC 10/11	F4	W-1	B-1	SC	GB-2	
A134	ТССОММІ	F2	W-1	B-1	CT-1	GB-1	

		FINISH KEY					
Number	Name	NOTE	WALLS	BASE	FLOOR	CEILING	Comments
B100	HALLWAY	F1	W-1	B-1	CT-1	AC-1	
B101	HALLWAY	F1	W-1	B-1	CT-1	AC-1	
B101	HALLWAY	F1	W-1	B-1	CT-1	AC-1	
B102	HALLWAY	F1	W-1	B-1	CT-1	AC-1	
B103	HALLWAY	F1	W-1	B-1	CT-1	AC-1	
B104	HALLWAY	F1	W-1	B-1	CT-1	AC-1	
B105	RECEPTIONIST	F1	W-1	B-1	CT-1	AC-1	
B106	WAITING AREA	F1	W-1	B-1	CT-1	AC-1	
B107	COPY/MAIL ROOM	F2	W-1	B-1	CT-1	GB-1	
B108	MAINTENANCE OFFICE	F2	W-1	B-1	CT-1	GB-1	
B109	UNASSIGNED	F1	W-1	B-1	CT-1	AC-1	
B110	FINANCIAL STAFF	F2	W-1	B-1	CT-1	GB-1	
B111	IDD RESPITE ROOM	F2	W-1	B-1	CT-1	GB-1	
B112	CLOSET	F2	W-1	B-1	CT-1	GB-1	
B113	MAINTENANCE EQ	F4	W-1	B-1	SC	GB-2	
B114	JANITORIAL SUPPLIES	F4	W-1	B-1	SC	GB-2	
B115	MOP SINK	F4	W-1	B-1	SC	GB-2	
B116	RESTROOM	F3	W-1	B-2	CT-2	GB-2	
B117	MECH. ROOM	F4	W-1	B-1	SC	GB-2	
B118	STORAGE	F2	W-1	B-1	CT-1	GB-1	
B119	AC	F4	W-1	B-1	SC	GB-2	
B120	WH	F4	W-1	B-1	SC	GB-2	
B121	ELEC ROOM/ MDF	F4	W-1	B-1	SC	GB-2	
B122	CONFERENCE ROOM A	F2	W-1	B-1	CT-1	GB-1	
B123	CONFERENCE ROOM B	F2	W-1	B-1	CT-1	GB-1	
B124	BREAK ROOM	F2	W-1	B-1	CT-1	GB-1	
B125	OFFICE SHARED(4)	F2	W-1	B-1	CT-1	GB-1	
B126	CLINIC	F2	W-1	B-1	CT-1	GB-1	
B127	RECEPTIONIST	F1	W-1	B-1	CT-1	AC-1	
B128	PRIVATE OFFICE	F2	W-1	B-1	CT-1	GB-1	
B129	PRIVATE OFFICE	F2	W-1	B-1	CT-1	GB-1	
B130	PRIVATE OFFICE	F2	W-1	B-1	CT-1	GB-1	
B131	UNISEX RESTROOM	F3	W-1	B-2	CT-2	GB-2	
B132	UNISEX RESTROOM	F3	W-1	B-2	CT-2	GB-2	
B133	UNISEX RESTROOM	F3	W-1	B-2	CT-2	GB-2	
B134	UNASSIGNED	F2	W-1	B-1	CT-1	GB-1	
B135	MIS	F2	W-1	B-1	CT-1	GB-1	
B136	RISER ROOM	F4	W-1	B-1	SC	GB-2	
B137	MOP ROOM	F4	W-1	B-1	SC	GB-2	
B138	WH	F4	W-1	B-1	SC	GB-2	
B139	AC	F4	W-1	B-1	SC	GB-2	
B140	OPEN AREA	F2	W-1	B-1	CT-1	GB-1	
B141	BEDROOM	F2	W-1	B-1	CT-1	GB-1	
B142	BEDROOM	F2	W-1	B-1	CT-1	GB-1	
B143	RESTROOM	F3	W-1	B-2	CT-2	GB-2	
B144	AC 10/11	F4	W-1	B-1	SC	GB-2	
B145	GROUP COUNSELING ROOM	F2	W-1	B-1	CT-1	GB-1	
B146	RESTROOM	F3	W-1	B-2	CT-2	GB-2	
B147	HALLWAY	F1	W-1	B-1	CT-1	AC-1	

Number	N	ame		FINISH KEY NOTE	WALLS	BASE	FLOOR	CEILING	Comments
C100	HALLWAY		F	1	W-1	B-1	CT-1	AC-1	
C100	KITCHEN		F F		W-1	B-1 B-1	CT-1	GB-1	
C102	PANTRY		F		W-1	B-1	CT-1	GB-1	
C103	DINING RO	OM	F		W-1	B-1	CT-1	GB-1	
C104	STORAGE		F:		W-1	B-1	CT-1	GB-1	
C105	RESTROOM	1	F	3	W-1	B-2	CT-2	GB-2	
C106	BEDROOM		F		W-1	B-1	CT-1	GB-1	
C107	BEDROOM		F		W-1	B-1	CT-1	GB-1	
C108	AC 1/2		F		W-1	B-1	SC	GB-2	
C109	OPEN AREA		F2		W-1	B-1	CT-1	GB-1	
C110 C111	UNASSIGNI ELEC.	ED	F F		W-1 W-1	B-1 B-1	CT-1 SC	AC-1 GB-2	
C112	OFFICE		F F		W-1	B-1 B-1	CT-1	GB-2 GB-1	
C112	AC 8/9		F4		W-1	B-1	SC	GB-1 GB-2	
C114	OPEN AREA	4	F		W-1	B-1	CT-1	GB-1	
C115	BEDROOM	•	F		W-1	B-1	CT-1	GB-1	
C116	BEDROOM		F		W-1	B-1	CT-1	GB-1	
C117	RESTROOM	1	F		W-1	B-2	CT-2	GB-2	
C118	BEDROOM		F		W-1	B-1	CT-1	GB-1	
C119	RESTROOM	1	F	3	W-1	B-2	CT-2	GB-2	
C120	BEDROOM		F		W-1	B-1	CT-1	GB-1	
C121	W/D		F		W-1	B-2	CT-2	GB-2	
C122	RESTROOM	1	F		W-1	B-2	CT-2	GB-2	
C123	OFFICE		F		W-1	B-1	CT-1	GB-1	
C124		4	E E		W-1	B-1	CT-1	GB-1	
C125	OFFICE		F		W-1	B-1	CT-1	GB-1	
C126		0014	F4		W-1	B-1	SC	GB-2	
C127 C128	LEISURE RO	JUN	F: F:		W-1 W-1	B-1 B-1	CT-1 CT-1	GB-1 GB-1	
C128 C129	BEDROOM		E F		W-1 W-1	B-1 B-1	CT-1 CT-1	GB-1 GB-1	
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KEY NOTE F1 F2	W-1	BASE B-1 B-1	FLOOF CT-1 CT-1	3 ROOM R CEILING AC-1 GB-1	W-1 FINISH SCH MISC.	VALL PAIN VALL PAIN	CT-2 T LATEX T LATEX	GB-2 REMARKS	
KEY NOTE F1 F2 F3	WALLS W-1 W-1 W-1	BASE B-1	FLOOF	3 ROOM R CEILING AC-1	W-1 FINISH SCH MISC. V	IEDULE VALL PAIN VALL PAIN	CT-2 IT LATEX IT LATEX IT EPOXY I		
C130 KEY NOTE F1 F2 F3 F4	WALLS W-1 W-1 W-1	BASE B-1 B-1 B-2	FLOOF CT-1 CT-1 CT-2	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2	W-1 FINISH SCH MISC. V	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN	CT-2 IT LATEX IT LATEX IT EPOXY I	REMARKS	
KEY NOTE F1 F2 F3	WALLS W-1 W-1 W-1	BASE B-1 B-1 B-2	FLOOF CT-1 CT-1 CT-2	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2	W-1 FINISH SCH MISC. V V V V BASE FINIS	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE	WALLS W-1 W-1 W-1 W-1	BASE B-1 B-1 B-2 B-1	FLOOF CT-1 CT-1 CT-2 SC	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2	W-1 FINISH SCH MISC. V V V V BASE FINIS	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE B1	WALLS W-1 W-1 W-1	BASE B-1 B-2 B-1 COVE I	FLOOF CT-1 CT-2 SC BASE	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2	W-1 FINISH SCH MISC. V V V V BASE FINIS	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4	WALLS W-1 W-1 W-1 W-1 4" RUBBER	BASE B-1 B-2 B-1 COVE I	FLOOF CT-1 CT-2 SC BASE	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2	W-1 FINISH SCH MISC. V V V V BASE FINIS	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE B1 B2	W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA	BASE B-1 B-2 B-1 COVE I	FLOOF CT-1 CT-2 SC BASE	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2 BASE	W-1 FINISH SCH	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN H DESCRIPTI	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE B1 B2	W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA	BASE B-1 B-2 B-1 COVE I	FLOOF CT-1 CT-2 SC BASE	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2 BASE	W-1 FINISH SCH MISC. V V V V BASE FINIS	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN H DESCRIPTI	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE B1 B2	W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA	BASE B-1 B-2 B-1 COVE I	FLOOF CT-1 CT-2 SC BASE	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2 BASE	W-1 FINISH SCH	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN H DESCRIPTI	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE AC-1	WALLS W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA NONE 2'X2' LAY-IN	BASE B-1 B-2 B-1 COVE I	FLOOF CT-1 CT-2 SC BASE LE COVE I	3 ROOM CEILING AC-1 GB-1 GB-2 GB-2 BASE C EILING TILE S	W-1 FINISH SCH	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN H DESCRIPTI	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE AC-1 GB-1	WALLS W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA NONE 2'X2' LAY-IN TAPE, FLOA	BASE B-1 B-1 B-1 COVE I MIC TII	FLOOF CT-1 CT-2 SC BASE E COVE I	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2 BASE C EILING TILE S D PAINT EXIS	W-1 FINISH SCH	HEDULE	CT-2	REMARKS	MS
KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE AC-1 GB-1	WALLS W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA NONE 2'X2' LAY-IN TAPE, FLOA	BASE B-1 B-1 B-1 COVE I MIC TII	FLOOF CT-1 CT-2 SC BASE LE COVE I STICAL CI TURE ANI URE RESI	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2 BASE C EILING TILE S D PAINT EXIS	W-1 FINISH SCH	HEDULE	CT-2	REMARKS	
KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE	WALLS W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA NONE 2'X2' LAY-IN TAPE, FLOA 5/8" THICK,	BASE B-1 B-1 B-1 COVE I MIC TII	FLOOF CT-1 CT-2 SC BASE LE COVE I STICAL CI TURE ANI URE RESI	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2 BASE C EILING TILE S D PAINT EXIS	W-1 FINISH SCH	HEDULE	CT-2	REMARKS	MS
KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE AC-1 GB-1	WALLS W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA NONE 2'X2' LAY-IN TAPE, FLOA 5/8" THICK,	BASE B-1 B-1 B-1 COVE I MIC TII	FLOOF CT-1 CT-2 SC BASE LE COVE I STICAL CI TURE ANI URE RESI	3 ROOM CEILING AC-1 GB-1 GB-2 GB-2 BASE C EILING TILE S D PAINT EXIS ISTANT GYP. I	W-1 FINISH SCH	HEDULE	CT-2	REMARKS	MS
KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE AC-1 GB-1	WALLS W-1 W-1 W-1 W-1 W-1 4" RUBBER 4-1/4" CERA NONE 2'X2' LAY-IN TAPE, FLOA 5/8" THICK,	BASE B-1 B-1 B-1 COVE I MIC TII	FLOOF CT-1 CT-2 SC BASE LE COVE I STICAL CI TURE ANI URE RESI	3 ROOM CEILING AC-1 GB-1 GB-2 GB-2 BASE C EILING TILE S D PAINT EXIS ISTANT GYP. I	W-1 I FINISH SCH	HEDULE	CT-2	REMARKS	MS
KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE AC-1 GB-1 GB-2 TYPE	WALLS W-1 W-1 W-1 W-1 W-1 W-1 2'X2' LAY-IN TAPE, FLOA 5/8" THICK, FIRE RATEI PORCELAIN	BASE B-1 B-1 B-2 B-1 COVE I MIC TII MIC TII MIC TII MOISTI D CONE	FLOOF	3 ROOM CEILING AC-1 GB-1 GB-2 GB-2 GB-2 BASE C EILING TILE S D PAINT EXIS STANT GYP. I F	W-1 I FINISH SCH	HEDULE	CT-2	REMARKS	MS
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KEY NOTE F1 F2 F3 F4 TYPE B1 B2 B3 TYPE AC-1 GB-1 GB-2 TYPE CT-1 CT-2	WALLS W-1 W-1 W-1 W-1 W-1 A" RUBBER 4-1/4" CERA NONE 2'X2' LAY-IN TAPE, FLOA 5/8" THICK, FIRE RATEI PORCELAIN CERAMIC M	BASE B-1 B-1 B-2 B-1 COVE I AMIC TII AMIC TII AMIC TII D CONE	FLOOF CT-1 CT-2 SC BASE LE COVE I STICAL CI TURE ANI URE RESIDITIONS) TILE (2"X	3 ROOM R CEILING AC-1 GB-1 GB-2 GB-2 GB-2 BASE C EILING TILE S D PAINT EXIS ISTANT GYP. I F 2")	W-1 FINISH SCH MISC. MISC. V V BASE FINISH FINISH E FINISH E SYSTEM TING GYP. E BD. ON SUS FINISH E FINISH E COR FINISH E COR FINISH	IEDULE VALL PAIN VALL PAIN VALL PAIN VALL PAIN VALL PAIN VALL PAIN SH DESCRIPTI BD. CEILIN PENDED C	CT-2	REMARKS	MS
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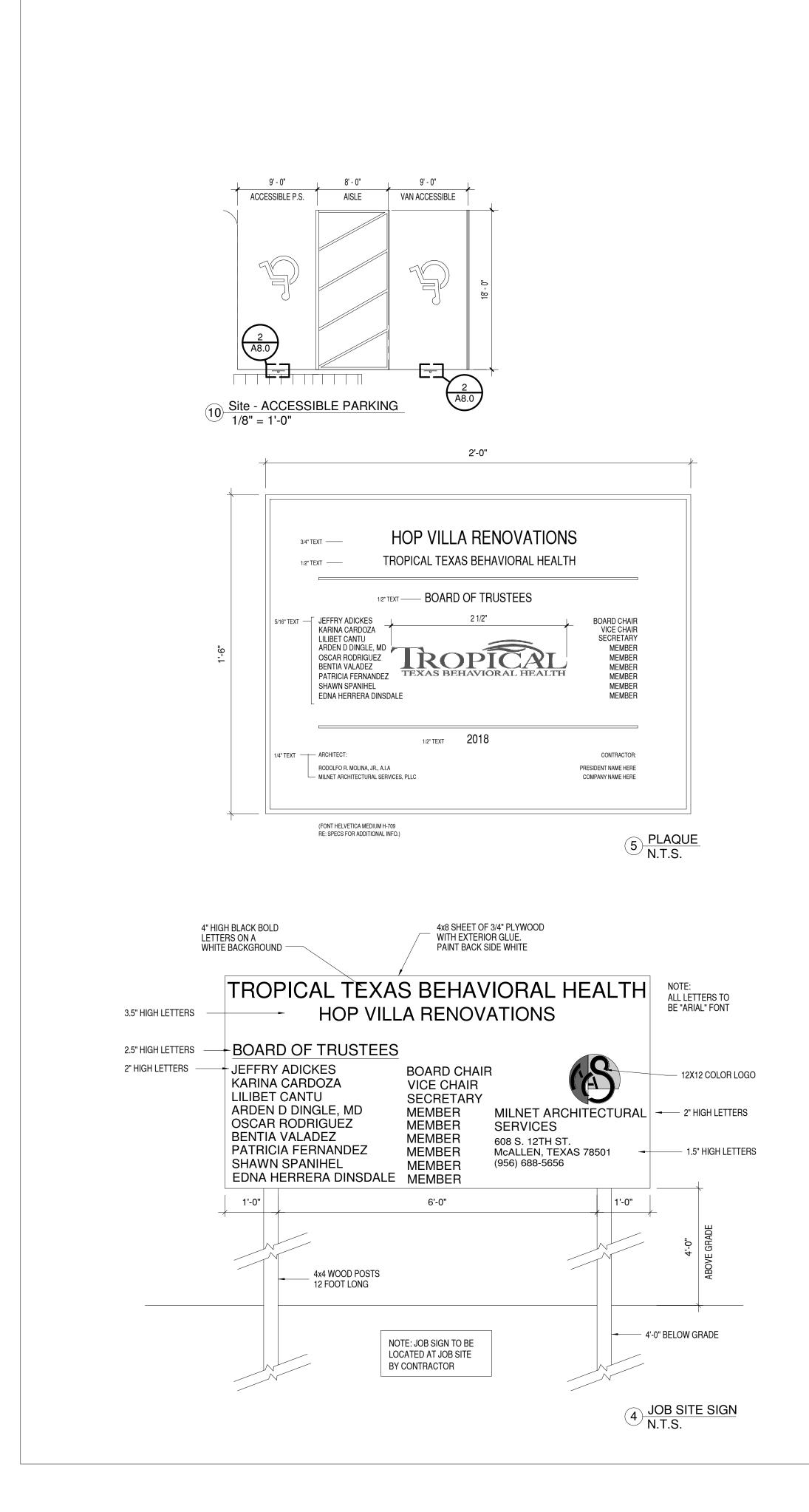
BUILDING CODE.

1. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE

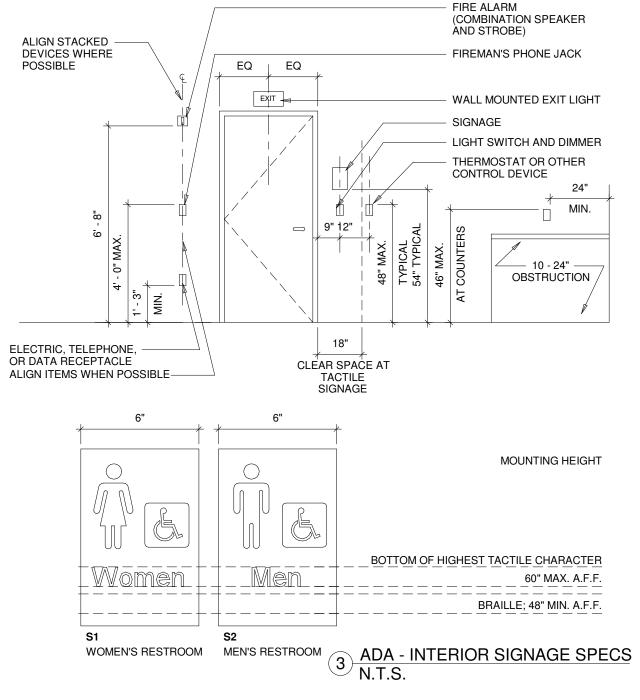
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.

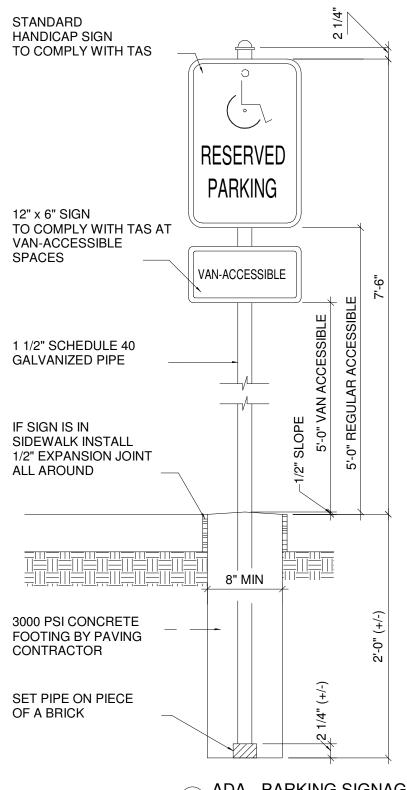
- 3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC TO MATCH ADJACENT SURFACES.
- 4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
- 5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
- 6. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
- 7. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- 8. PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS NOTED OTHERWISE.
- 9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- 10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE UNLESS NOTED OTHERWISE.
- 11. CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, UNLESS NOTED OTHERWISE.
- 12. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR.



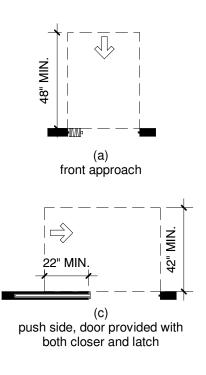


- 1. COLOR AS CLOSE TO COUNTERTOP AS POSSIBLE BASED ON STANDARD COLORS.
- 2. SIGNS THAT DESIGNATE PERMANENT ROOMS AND SPACES MUST COMPLY WITH REQUIREMENTS FOR CHARACTER PROPORTION. RAISED ADN BRAILLED CHARACTERS AND PICTORIAL SYMBOLS SIGNS, FINISH AND CONTRAST, AND MOUNTING AND LOCATION HEIGHT.
- 3. CHARACTER PROPORTION: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
- 4. RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGNS (PICTORGRAMS): LETTERS AND NUMERALS SHALL BE RAISED 1/32 IN, UPPER-CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8 IN. (16mm) HIGH, BUT NO HIGHER THAN 2 IN. (50mm). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 IN. (152mm) MINIMUM IN HEIGTH.
- 5. FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- 6. MOUNTING LOCATION AND HEIGHT. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ALONGSIDE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE INSTALLED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE INSTALLED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGND SHALL BE LOCATED ON THE NEAREST ADJACENT WALL SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.





2 ADA - PARKING SIGNAGE N.T.S.

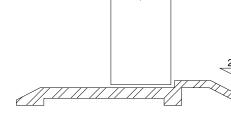


MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS,



1. FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCE SHALL BE STABLE FIRM, AND SLIP RESISTANT. CHANGES IN LEVEL ARE NOT PERMITTED.

2. VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOOR OR GATES, SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43" MAX. ABOVE THE FINISH FLOOR



A. THRESHOLD

NOTES:

1. 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.

2. 1: 2 SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL LEVEL CHANGE.

DOOR TYPE:

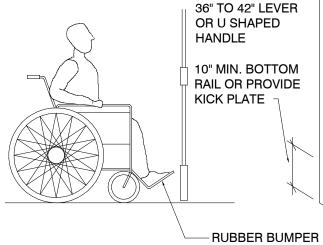
1. MINIMUM 10" HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL. HARDWARE:

2. OPERABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.

- 3. OPENABLE BY SINGLE EFFORT LEVER-TYPE DEVICE (NOT **REQUIRING GRASPING).**
- 4. MOUNTED 36" TO 42".

5. MAXIMUM 8.5 POUNDS EFFORT TO OPERATE EXTERIOR DOOR, 5 POUNDS FOR INTERIOR.

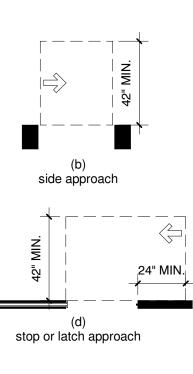
6. HARDWARE TO CONFORM TO 3304(C) OF THE UBC 91.



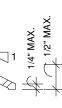
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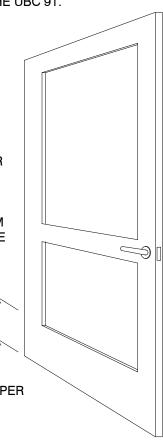
1 DOOR CRITERIA N.T.S.

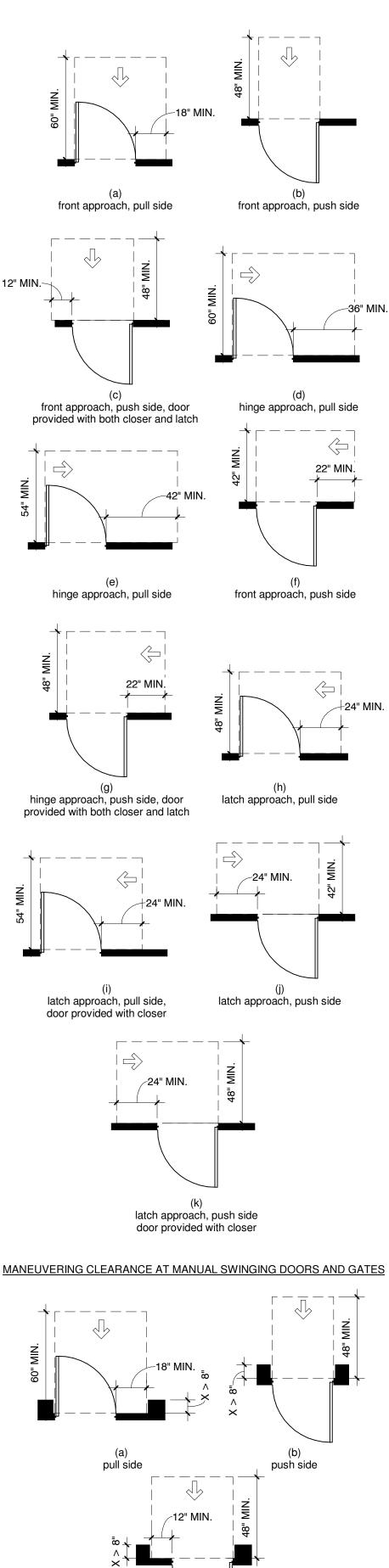
A. DETAIL



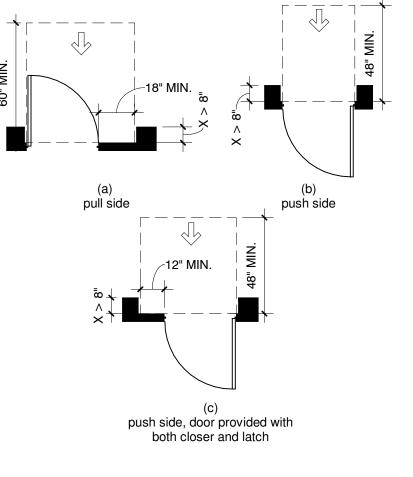
SLIDING DOORS, GATES AND FOLDING DOORS



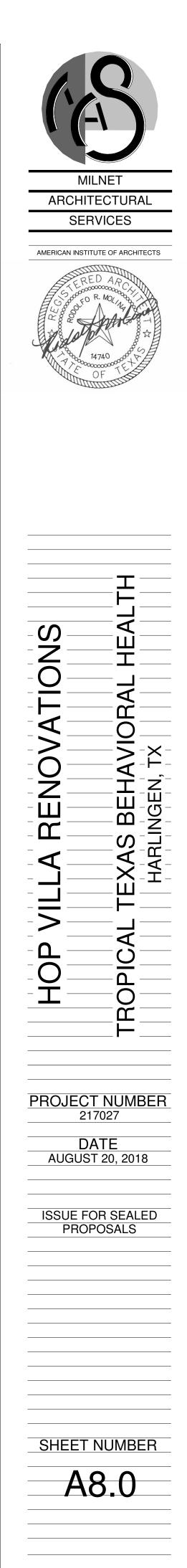


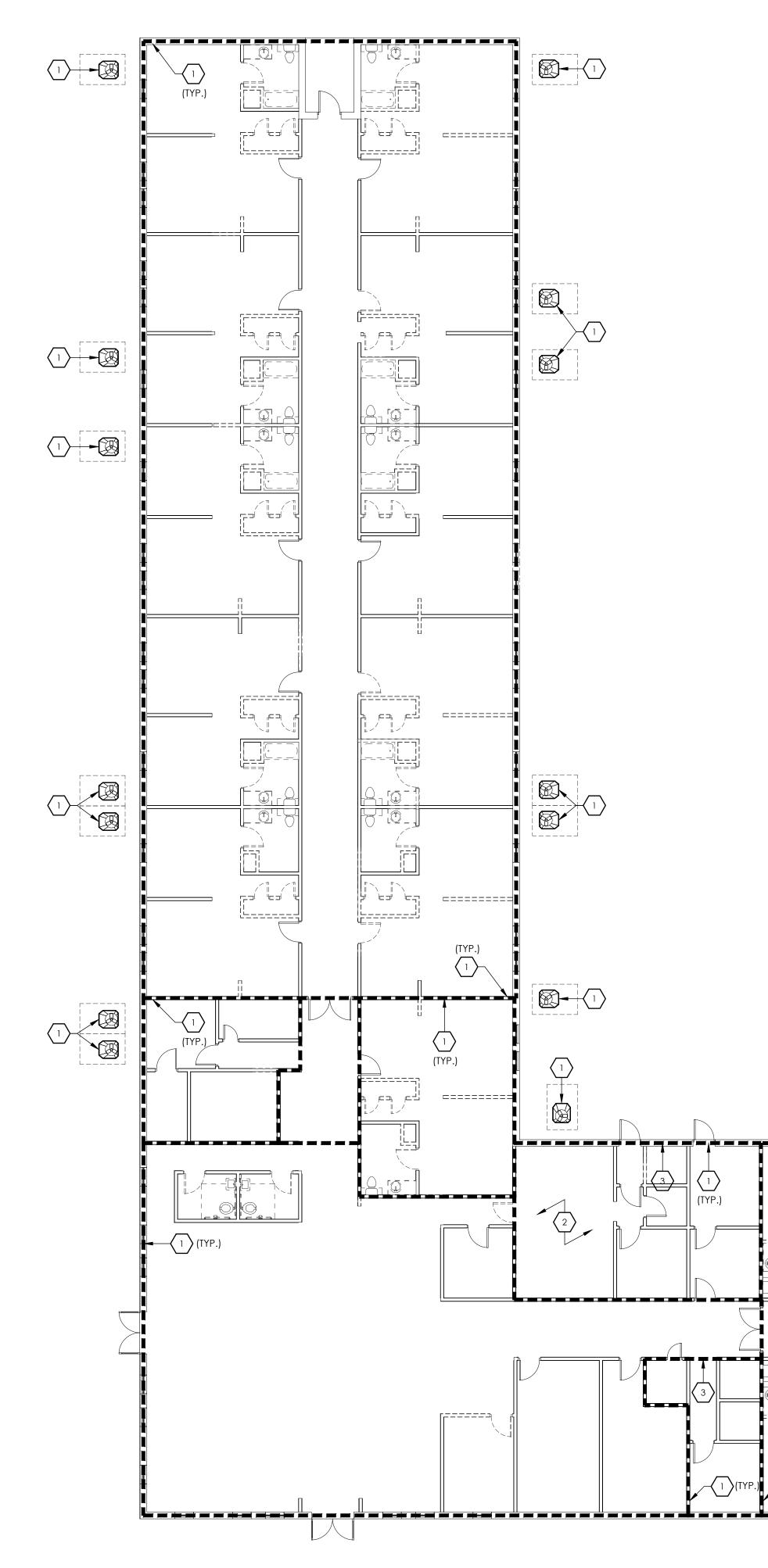






MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES

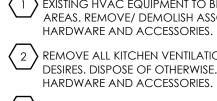


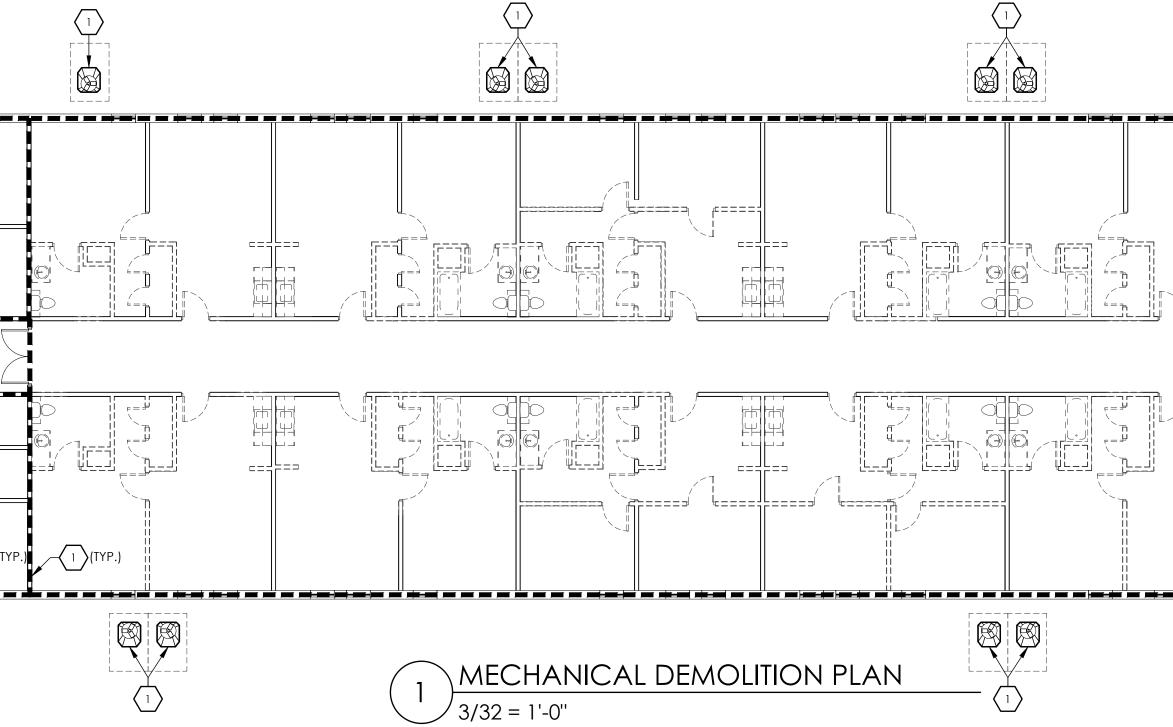


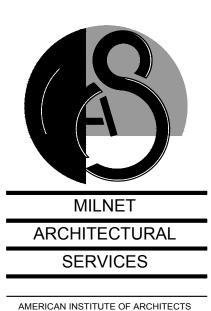
GENERAL DEMOLITION NOTES

- A. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED TO PROPERLY BID THE DEMOLITION WORK.
- B. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF HVAC FIXTURES AND EQUIPMENTS AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- C. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCHITECTURAL DOCUMENTS IN ADDITION TO THE DIVISION 15 AND 16 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK. D. WHERE EQUIPMENT IS INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED SERVICES SHALL BE
- CAPPED AT A CONCEALED LOCATION.
- E. WHERE SERVICES RUN ABOVE INACCESSIBLE CEILINGS OR IN WALLS WHICH ARE TO REMAIN UNDISTURBED, SERVICES SHALL BE CAPPED AT CONCEALED LOCATION AND ABANDONED
- F. WHERE THE REMOVAL OF EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICES SHALL BE EXTENDED TO THE DOWNSTREAM EQUIPMENT SO THAT THE FIXTURES ARE LEFT IN OPERATING CONDITION.
- G. COORDINATE DEMOLITION OF DIVISION 15 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- H. ALL EXISTING H.V.A.C. AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- I. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, BE CAUTIOUS TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- J. EXISTING EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.
- K. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A L WHETHER SHOWN ON DRAWINGS OR NOT.









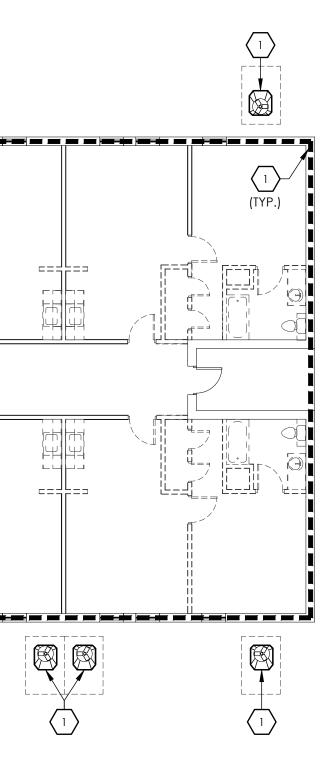
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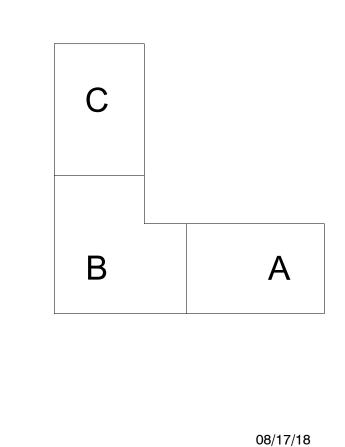
KEYED NOTES: MECHANICAL

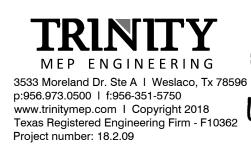
1 EXISTING HVAC EQUIPMENT TO BE REMOVED AND DISPOSED OF IN INDICATED AREAS. REMOVE/ DEMOLISH ASSOCIATED EQUIPMENT DUCTWORK, AIR DEVICES,

2 REMOVE ALL KITCHEN VENTILATION EQUIPMENT AND RETURN TO OWNER IF OWNER DESIRES. DISPOSE OF OTHERWISE. DISPOSE OF ALL DUCTWORK AND ASSOCIATED

3 REMOVE ALL WATER HEATER INTAKE AND EXHAUST VENTILATION DUCTS. COORDINATE WITH ARCH FOR ROOF PATCHING OF VENTILATION ROOF PENETRATIONS IN INDICATED AREA.



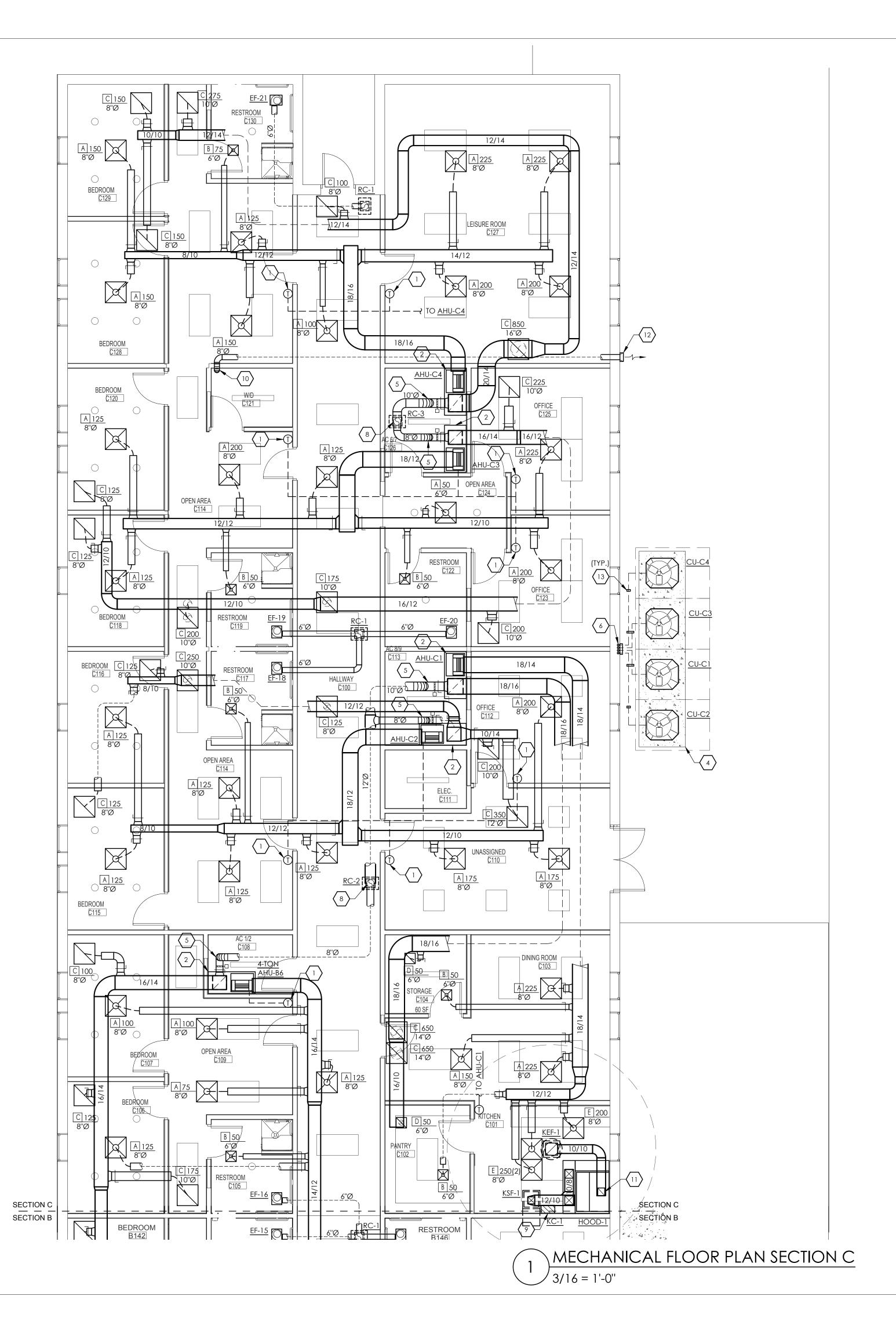






	TROPICAL TEXAS BEHAVIORAL HEALT HARLINGEN, TX.
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ARCHITECTURAL SERVICES

AMERICAN INSTITUTE OF ARCHITECTS

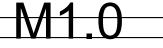
KEYED NOTES: MECHANICAL

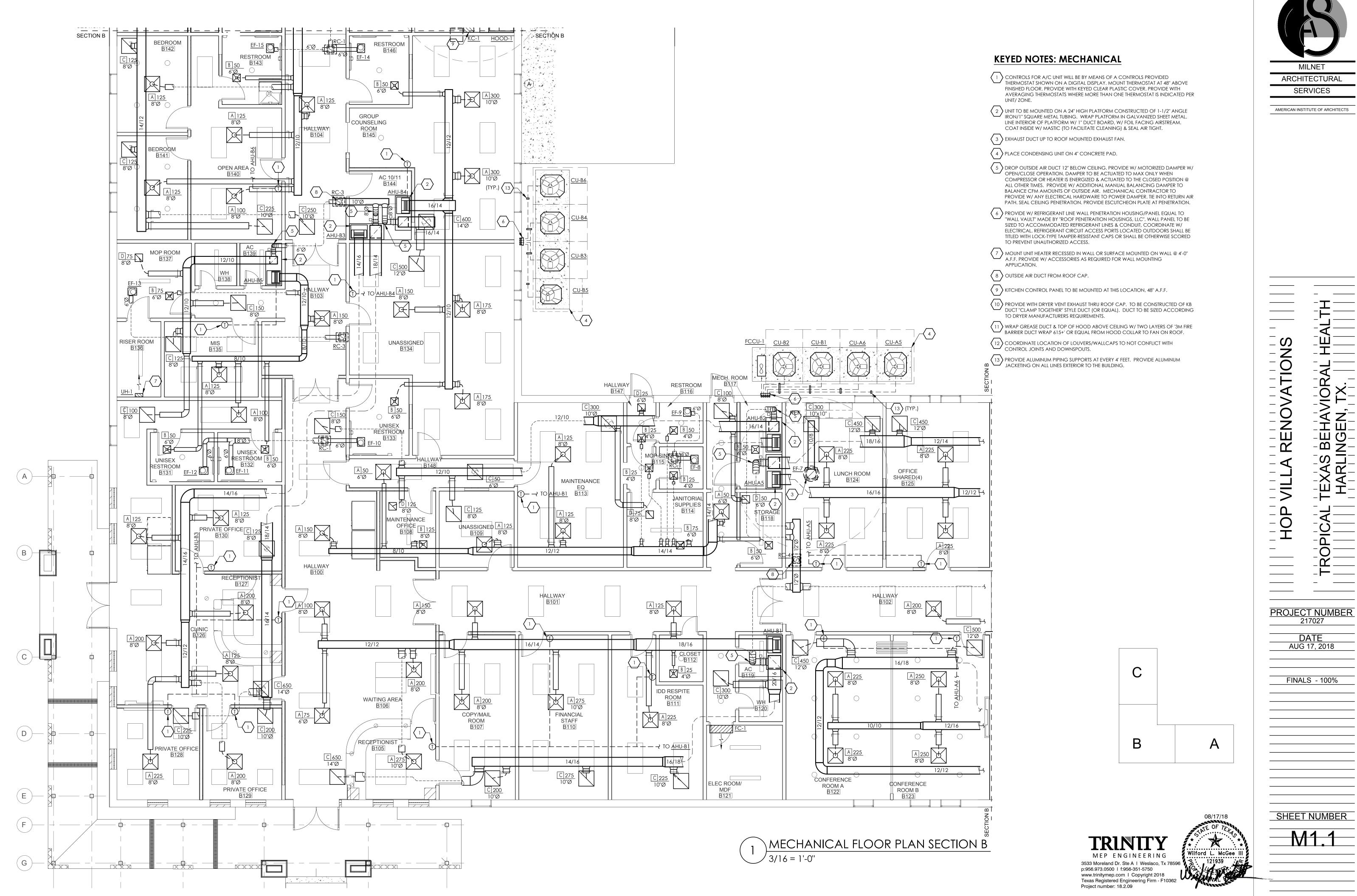
- 1 CONTROLS FOR A/C UNIT WILL BE BY MEANS OF A CONTROLS PROVIDED THERMOSTAT SHOWN ON A DIGITAL DISPLAY. MOUNT THERMOSTAT AT 48" ABOVE FINISHED FLOOR. PROVIDE WITH KEYED CLEAR PLASTIC COVER. PROVIDE WITH AVERAGING THERMOSTATS WHERE MORE THAN ONE THERMOSTAT IS INDICATED PER UNIT/ ZONE.
- 2 UNIT TO BE MOUNTED ON A 24" HIGH PLATFORM CONSTRUCTED OF 1-1/2" ANGLE IRON/1" SQUARE METAL TUBING. WRAP PLATFORM IN GALVANIZED SHEET METAL. LINE INTERIOR OF PLATFORM W/ 1" DUCT BOARD, W/ FOIL FACING AIRSTREAM. COAT INSIDE W/ MASTIC (TO FACILITATE CLEANING) & SEAL AIR TIGHT.
- $\langle 3 \rangle$ EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
- $\left< 4 \right>$ PLACE CONDENSING UNIT ON 4" CONCRETE PAD.
- 5 DROP OUTSIDE AIR DUCT 12" BELOW CEILING. PROVIDE W/ MOTORIZED DAMPER W/ OPEN/CLOSE OPERATION. DAMPER TO BE ACTUATED TO MAX ONLY WHEN COMPRESSOR OR HEATER IS ENERGIZED & ACTUATED TO THE CLOSED POSITION @ ALL OTHER TIMES. PROVIDE W/ ADDITIONAL MANUAL BALANCING DAMPER TO BALANCE CFM AMOUNTS OF OUTSIDE AIR. MECHANICAL CONTRACTOR TO PROVIDE W/ ANY ELECTRICAL HARDWARE TO POWER DAMPER. TIE INTO RETURN AIR PATH. SEAL CEILING PENETRATION. PROVIDE ESCUTCHEON PLATE AT PENETRATION.
- 6 PROVIDE W/ REFRIGERANT LINE WALL PENETRATION HOUSING/PANEL EQUAL TO "WALL VAULT" MADE BY "ROOF PENETRAITION HOUSINGS, LLC". WALL PANEL TO BE SIZED TO ACCOMMODATED REFRIGERANT LINES & CONDUIT, COORDINATE W/ ELECTRICAL. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE TITLED WITH LOCK-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SCORED TO PREVENT UNAUTHORIZED ACCESS.
- 7 MOUNT UNIT HEATER RECESSED IN WALL OR SURFACE MOUNTED ON WALL @ 4'-0" A.F.F. PROVIDE W/ ACCESSORIES AS REQUIRED FOR WALL MOUNTING APPLICATION.
- $\left< 8 \right>$ OUTSIDE AIR DUCT FROM ROOF CAP.
- $\left<9\right>$ KITCHEN CONTROL PANEL TO BE MOUNTED AT THIS LOCATION, 48" A.F.F.
- 10 PROVIDE WITH DRYER VENT EXHAUST THRU ROOF CAP. TO BE CONSTRUCTED OF KB DUCT "CLAMP TOGETHER" STYLE DUCT (OR EQUAL). DUCT TO BE SIZED ACCORDING TO DRYER MANUFACTURERS REQUIREMENTS.
- 11 WRAP GREASE DUCT & TOP OF HOOD ABOVE CEILING W/ TWO LAYERS OF '3M FIRE BARRIER DUCT WRAP 615+' OR EQUAL FROM HOOD COLLAR TO FAN ON ROOF.
- (12) COORDINATE LOCATION OF LOUVERS/WALLCAPS TO NOT CONFLICT WITH CONTROL JOINTS AND DOWNSPOUTS.
- 13 PROVIDE ALUMINUM PIPING SUPPORTS AT EVERY 4' FEET. PROVIDE ALUMINUM JACKETING ON ALL LINES EXTERIOR TO THE BUILDING.

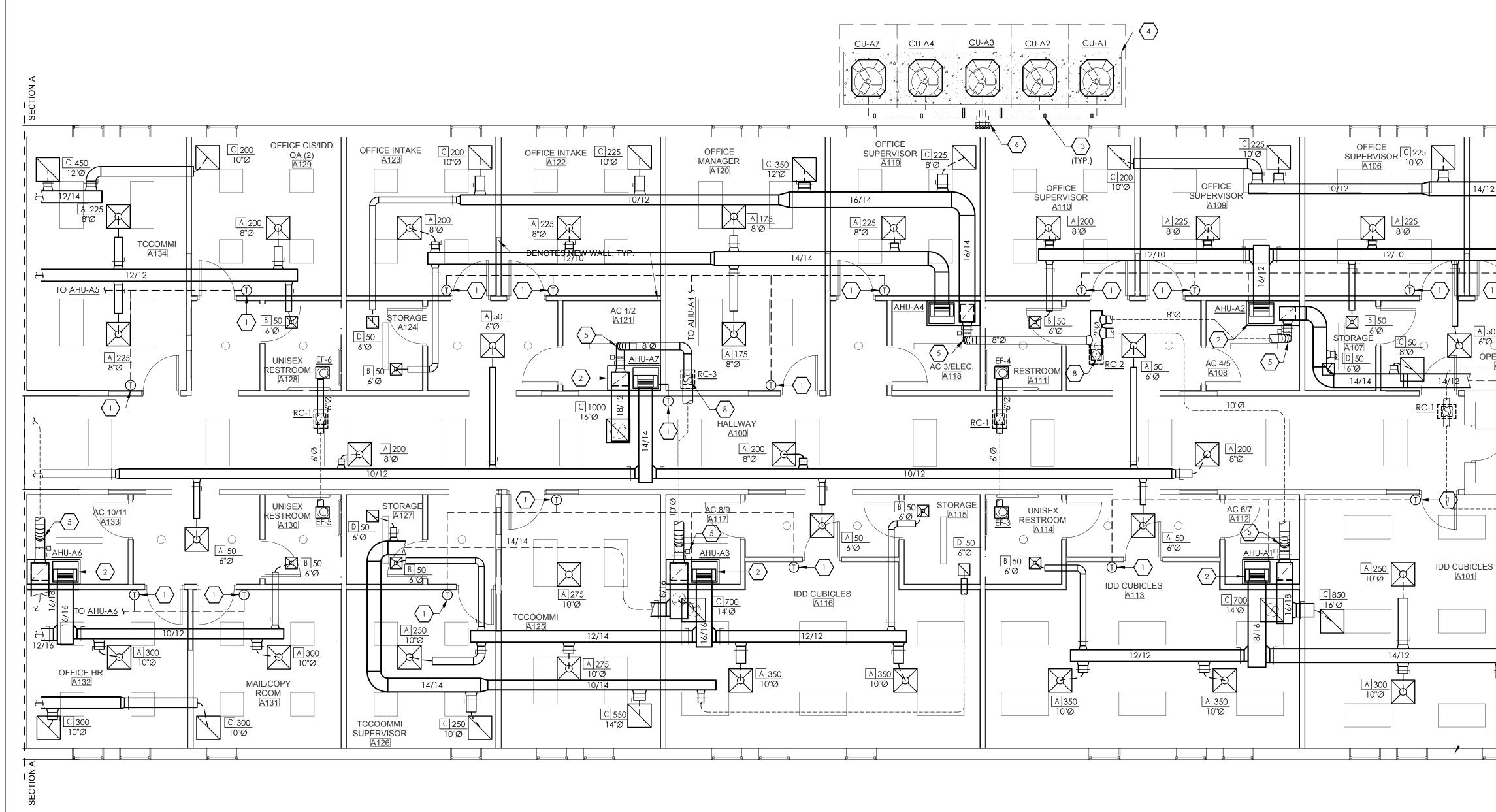




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 $1 \frac{\text{MECHANICAL FLOO}}{3/16 = 1'-0''}$

KEYED NOTES: MECHANICAL

1 CONTROLS FOR A/C UNIT WILL BE BY MEANS OF A CONTROLS PROVIDED THERMOSTAT SHOWN ON A DIGITAL DISPLAY. MOUNT THERMOSTAT AT 48" ABOVE FINISHED FLOOR. PROVIDE WITH KEYED CLEAR PLASTIC COVER. PROVIDE WITH AVERAGING THERMOSTATS WHERE MORE THAN ONE THERMOSTAT IS INDICATED PER UNIT/ ZONE.

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 A.F.F. PROVIDE W/ ACCESSORIES AS REQUIRED FOR WALL MOUNTING

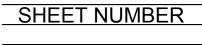
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- 9 KITCHEN CONTROL PANEL TO BE MOUNTED AT THIS LOCATION, 48" A.F.F.
- (10) PROVIDE WITH DRYER VENT EXHAUST THRU ROOF CAP. TO BE CONSTRUCTED OF KB DUCT "CLAMP TOGETHER" STYLE DUCT (OR EQUAL). DUCT TO BE SIZED ACCORDING TO DRYER MANUFACTURERS REQUIREMENTS.
- WRAP GREASE DUCT & TOP OF HOOD ABOVE CEILING W/ TWO LAYERS OF '3M FIRE BARRIER DUCT WRAP 615+' OR EQUAL FROM HOOD COLLAR TO FAN ON ROOF.
 COORDINATE LOCATION OF LOUVERS/WALLCAPS TO NOT CONFLICT WITH CONTROL LIQUITS AND DOWNSPOLUTS.
- CONTROL JOINTS AND DOWNSPOUTS. (13) PROVIDE ALUMINUM PIPING SUPPORTS AT EVERY 4' FEET. PROVIDE ALUMINUM JACKETING ON ALL LINES EXTERIOR TO THE BUILDING.



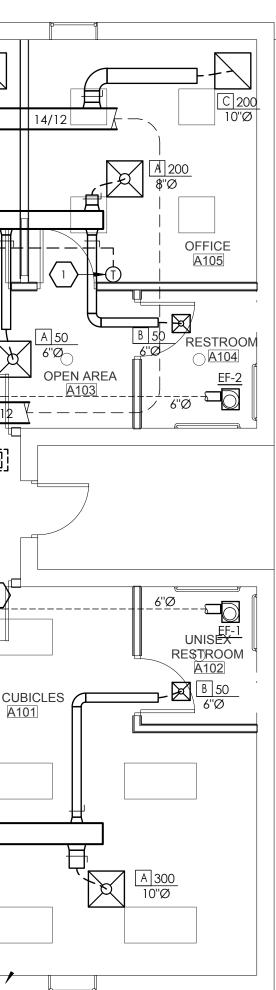
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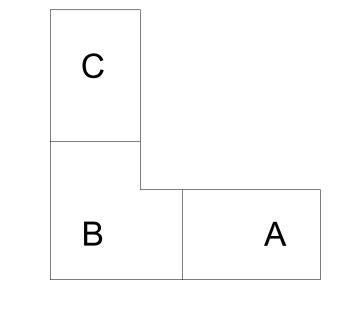
HOP VILLA RENOVATIONS	TROPICAL TEXAS BEHAVIORAL HEALTH HARLINGEN, TX.
PROJEC	T NUMBER
D AUG	ATE 17, 2018
FINAL	.S - 100%

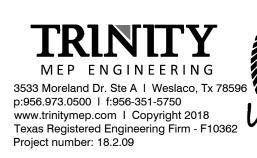






MECHANICAL FLOOR PLAN SECTION A







08/17/18

GENERAL NOTES - MECHANICAL:

(1) THE MECHANICAL CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.

(2) CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(3) CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

(4) CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

(5) CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.

(6) ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH The Other trades

(7) ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.

(8) CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFFA 90A AND 90B. (NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS) (NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS)

(9) CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SPUTTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES, VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

(10) MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.

(11) CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN, CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(12) ALL PIPING SHALL BE INSULATED AND JACKETED, REFER TO THE SPECIFICATIONS, THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

(13) PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL AND INSTALLED BY MECHANICAL. COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

(14) PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT, 24 HOUR SINGLE/MULTI STAGE COMMERCIAL THERMOSTAT. DUAL SET POINTS, OCCUPIED AND UNOCCUPIED PERIODS, UNIT OPTIMIZATION, AUTO HEATING/COOLING AND AUTO CHANGE OVER. SUB-BASE BACK-UP BATTERY AND TEMPORARY OVER-RIDE. 24 VAC CONTROL VOLTAGE. PROVIDE PLASTIC SEE THRU PROTECTIVE COVER WITH KEY LOCK. (15) FILTER INSTALLATION AND REPLACEMENT

A. INSTALL CONSTRUCTION RETURN FILTER AT EACH RETURN GRILLE BEFORE OPERATING PERMANENT AIR HANDLERS DURING CONSTRUCTION.

B.REPLACE FILTERS AFTER COMPLETING CONSTRUCTION AND BEFORE CONDUCTING BUILDING FLUSH-OUT. 1. REPLACE CONSTRUCTION RETURN FILTERS WITH FLUSH-OUT RETURN FILTERS. 2.REPLACE SUPPLY FILTERS.

MECHANIC

TAG —

NECK SIZE —

CONICAL DUCT SPIN TAP

B2	De
MH107	SH
- 1	PEF
	HIDDEN D
	A
FD FSD	
C+	
0+	
CHWS CHWS CHWS	
SQUARE ROUND	

H.V.A
THE WOR

IVAC	SY
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•	D

THE DESIGN, SELECTION, SPACING AND APPLICATION OF HORIZONTAL PIPE HANGERS, SUPPORTS, RESTRAINTS, ANCHORS AND GUIDES SHALL BE IN ACCORDANCE WITH THE STANDARD CODE FOR PRESSURE PIPING ANSI B31.1 AND THE LATEST EDITION OF THE MANUFACTURERS' STANDARDIZATION SOCIETY STANDARDS MSS SP- 69, "PIPE HANGERS AND SUPPORTS--SELECTION AND APPLICATION".

EXCEEDING 30°. WITH SMACNA.

PATTERN INDICATED ON THE DRAWINGS.

FANS SHALL STOP.

SUBMIT COMPLETED TEST

CAL SYMBOL	LEGEND	
A 325(2) QUANTITY	, D BLACE DAMPER	A/C AD AFF AH
	UCT	AR
		BHF BTU CFA CH
AIL NUMBER		CLC CW CO CT CU
ET NUMBER		CW CL
	NER, WHERE INDICATED (DOUBLE WALL)	DB DIA DN DW
JCT (FOR CLARITY)		DX EA1
SUPPLY AIR	2 GRILLE	ED I EF ELE
SUPPLY AIR GRILL	E-SLOT DIFFUSER	ELE F
RETURN A L RETURN AIR DUCT DROF	IR GRILLE PS TO INCLUDE A MANUAL DAMPER	FC FD FLE FLC FLR FPN
	TAT TURE SENSOR TURE OVERRIDE SENSOR/SWITCH	FT FS
	PER W/ ACCESSIBLE DUCT ACCESS DOOR KE DAMPER W/ ACCESSIBLE DUCT ACCESS DOOR	GA GA GP
FLOW DIR	RECTION	HB HP
PIPE DRO	Ρ	HR HR HV
PIPE RISE		HW HZ
RETURN A	IR DUCT RISE/DROP	ID IE
SUPPLY A	IR DUCT RISE/DROP	IN INS IN 1
WALL OR	FLOOR SLEEVE	KW LA ⁻
CHILLED WAT	er supply/return piping	LA LB L
	ROUND DUCT TRANSITION	

MECHANICAL ABBREVIATIONS

MAXIMUM

MANUAL BALANCING DAMPER

MOTORIZED DAMPER

MECHANICAL

MOTOR STARTER

NOT APPLICABLE

NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

NOT TO SCALE

outside air

ON CENTER

PRESSURE

RETURN AIR

RETURN

PUMP

OUTSIDE AIR INTAKE HOOD

OPPOSED BLADE DAMPER

PARALLEL BLADE DAMPER

PRESSURE REDUCING VALVE

RETURN (AIR DEVICE)

RELATIVE HUMIDITY

REVOLUTIONS PER MINUTE

RELIEF HOOD

ROOF TOP UNIT

Smoke damper

STATIC PRESSURE

Specification

SQUARE FOOT

Standard

TEMPERATURE

THERMOSTAT

UNDER FLOOR

UNDERWRITERS LABORATORIES

UNIT HEATER

VELOCITY

VENTILATE

VOLUME

WITH

VOLTAGE

WET BULB

WITHOUT

WIDE, WIDTH

VENTILATION FAN

TYPICAL

SUPPLY AIR

SCHEDULE

Second

SUPPLY FAN

SUPPLY (AIR DEVICE)

PRIMARY CHILLED WATER PUMP

REFER TO DETAIL 4, SHEET M7.01

SECONDARY CHILLED WATER PUMP

SHEET METAL AND AIR CONDITIONING

CONTRACTORS NATIONAL ASSOCIATION

POUNDS PER SQUARE INCH (GAUGE)

MINIMUM

	DREVIA
AIR CONDITIONED ACCESS DOOR ABOVE FINISHED FLOOR AIR HANDLING UNIT	MAX MBD MD MECH
APPROXIMATE ARCHITECTURAL	MIN MS
BACK DRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT CUBIC FEET PER MINUTE CHILLER	NA NC NIC NO NTS
Chilled water pump Ceiling Condenser water pump	OA OAH
CLEANOUT COOLING TOWER CONDENSING UNIT COLD WATER	obd oc p
CENTER LINE DRY BULB	PBD PP PRESS
DIAMETER DOWN DRAWING DIRECT EXPANSION	PRV PSIG R
ENTERING AIR TEMPERATURE ELECTRIC DUCT HEATER EXHAUST FAN ELECTRICAL ELEVATION	RA RE: 4M7.01 RET RH RHD
DEGREES FAHRENHEIT FAN COIL FIRE DAMPER W/ DUCT ACCESS DOOR	RPM RTU
FLEXIBLE FLANGE FLOOR	S SA SCH
FEET PER MINUTE FEET, FOOT FLOW SWITCH	SCHP SD SEC SF
GALLON GALVANIZED GALLONS PER MINUTE	smacna sp
HOSE BIBB HORSEPOWER HEAT PUMP (WATER SOURCE)	SPEC SF STD
HOUR HEATING/VENTILATING/ AIR CONDITIONING HOT WATER PUMP	TEMP T'STAT TYP
HERTZ INSIDE DIAMETER INVERT ELEVATION (FLOW LINE)	UF UH UL
INCHES INSULATION INCHES OF WATER	VEL VENT VF
KILOWATT(S)	VOL VOLT
LEAVING AIR TEMPERATURE POUND LOUVER	W W/ WB W/O

A.C. SYSTEM

SECTION 15500

RK INCLUDES PROVIDING THE HVAC SYSTEMS, INCLUDING DUCTWORK, DIFFUSERS AND GRILLES INSULATION, CONTROLS, AND ALL OTHER EQUIPMENT NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM. HVAC SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:

EATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS. upply and return ductwork systems with grilles, diffusers, filters, and dampers.

EMPERATURE CONTROL SYSTEM INCLUDING LOW VOLTAGE WIRING AND CONDUIT.

UCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN. CONTROLS AND WIRING FOR CONNECTION TO LANDLORD'S FIRE-SMOKE ALARM SYSTEM (WHERE APPLICABLE).

THE CONTRACTOR SHALL COORDINATE ALL NEW DUCTWORK INCLUDING DUCTWORK INSULATION AND REINFORCING WITH EXISTING DUCTWORK AND DUCTWORK ANGLE BRACING SUCH THAT THE NEW DUCTWORK WILL FIT WITHIN THE SPACE LIMITATIONS OF THE PROJECT.

CONDENSATE PIPING: CONDENSATE PIPING SHALL BE A MINIMUM OF 3/4" COPPER TYPE "L" PIPE. ALL CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION SIMILAR TO ARMAFLEX

PROVIDE PIPE COVERING PROTECTION SHIELDS AND SADDLES FOR ALL INSULATED PIPING AT THE LOCATIONS OF ALL SUPPORTS. THE PROTECTION SHIELD LENGTH AND GAUGE THICKNESS FOR USE AT EACH CLEVIS HANGER SHALL BE AS SPECIFIED FOR TYPE 40 PROTECTION SHIELDS IN THE CURRENT EDITION OF MSS SP-69. PROTECTION SHIELDS SHALL BE GALVANIZED AND SHALL BE ARRANGED TO COVER ONE-HALF OF THE CIRCUMFERENCE OF THE INSULATION AND SHALL BE MOUNTED ON THE OUTSIDE OF THE INSULATION WITH INSULATION BLOCKING BETWEEN THE PIPE AND SADDLE TO PREVENT CRUSHING OF THE INSULATION. INSULATION BLOCKING SHALL BE UP JOHN 2 POUND HIGH DENSITY MOLDED URETHANE OR SEGMENTED MACHINERY CORK DIPPED IN HOT ASPHALT VAPOR SEAL OF NOT LESS THAN THE SAME LENGTH AND CIRCUMFERENCE AS THE PIPE PROTECTION SHIELD.

ALL HANGERS, HARDWARE, RODS, CLAMPS, CHANNELS, BASE PLATES, ANGLES, BOLTS, NUTS AND OTHER FACTORY-BUILT OR SHOP FABRICATED PIPE SUPPORT DEVICES SHALL BE GALVANIZED OR CADMIUM PLATED UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL SHOP FABRICATED AND WELDED STEEL SUPPORTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

ALL CONCRETE INSERTS FOR HANGER RODS SHALL BE NATIONAL PIPE HANGERS CORPORATION FIGURE 606 WITH FIGURE 607, OR GRINNELL FIGURE 282, FIGURE 152, OR APPROVED EQUAL. METAL DECK CONCRETE INSERT SHALL BE F & S MANUFACTURING CORPORATION FIGURE 282, GALVANIZED FABRICATED STEEL METAL DECK CEILING BOLT, PHILLIPS RED HEAD, OR APPROVED EQUAL. HANGER RODS, INSERTS, ETC., SHALL BE SIZED AND INSTALLED AS RECOMMENDED BY THE HANGER MANUFACTURER FOR THE SERVICE INTENDED.

FIELD VERIFY THE EXACT SIZES AND LOCATIONS OF ALL EXISTING DUCTWORK AND PIPING PRIOR TO DEMOLITION OF ANY EXISTING WORK. THE DEMOLITION WORK SHALL BE COORDINATED WITH THE NEW WORK TO ASSURE PROPER LIMITS OF DEMOLITION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS, AS REQUIRED. PROVIDE ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE LANDLORD, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE AN ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED, AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWING ARE SHEET METAL DIMENSIONS ON UNLINED DUCTS (INTERIOR DIMENSIONS).

SHEET METAL DUCTWORK' SHEET METAL DUCTWORK SHALL BE FARRICATED AND INSTALLED TO MEET ASHRAF AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS. SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS

DUCT SHALL BE EXTERNALLY WRAPPED W/ 2" FIBERGLASS BLANKET INSULATION.

RIGID ROUND GALVANIZED DUCT SHALL BE SPIRAL OR SNAP LOCK GALVANIZED SHEETMETAL COMPLYING

FIBERGLASS DUCT BOARD IS AN ACCEPTABLE W/ PRIOR WRITTEN OWNER PERMISSION. MINIMUM R-VALUE OF 5 REQUIRED FOR CONDITIONED SPACES AND MINIMUM R-VALUE OF 8 FOR UNCONDITIONED SPACES.

FLEXIBLE DUCT CONNECTOR: WHERE INDICATED PROVIDE U.L. LABELED 30oz. NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS.

GRILLES AND DIFFUSERS: PROVIDE GRILLES, DIFFUSERS, AND DAMPERS IN SIZES, CAPACITIES, MATERIALS, AND

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO

EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK. PROVIDE WHERE APPLICABLE, DUCT MOUNTED SUPPLY AND/OR RETURN AIR PHOTOELECTRIC TYPE UL LISTED SMOKE DETECTORS. DETECTORS SHALL BE LISTED FOR THE AIR VELOCITIES ENCOUNTERED. PROVIDE INTERLOCK WIRING AND RELAYS FOR UNIT SHUT DOWN. ON ACTIVATION OF ANY DETECTOR, ALL HVAC UNIT

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT NEBB OR AABC REGISTERED CONTRACTOR. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, AND OPERATION. BALANCE MECHANICAL SYSTEM, AND

EXPOSED ROUND (SPIRAL) DUCT TO BE INTERNALLY LINED. SUPPLY DUCTWORK SHALL BE LINED W/1" INSULATION. RETURN/EXHUAST/VENTILATION DUCT TO BE LINED W/1/2" INSULATION. CONCEALED ROUND DUCT TO BE EXTERNALLY INSULATED. USING R-5 INSULATION MIN FOR CONDITIONED SPACES (WHERE PLENUM RETURN IS USED) OR R-8 INSULATION MIN FOR UNCONDITIONED SPACES.



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08/17/18

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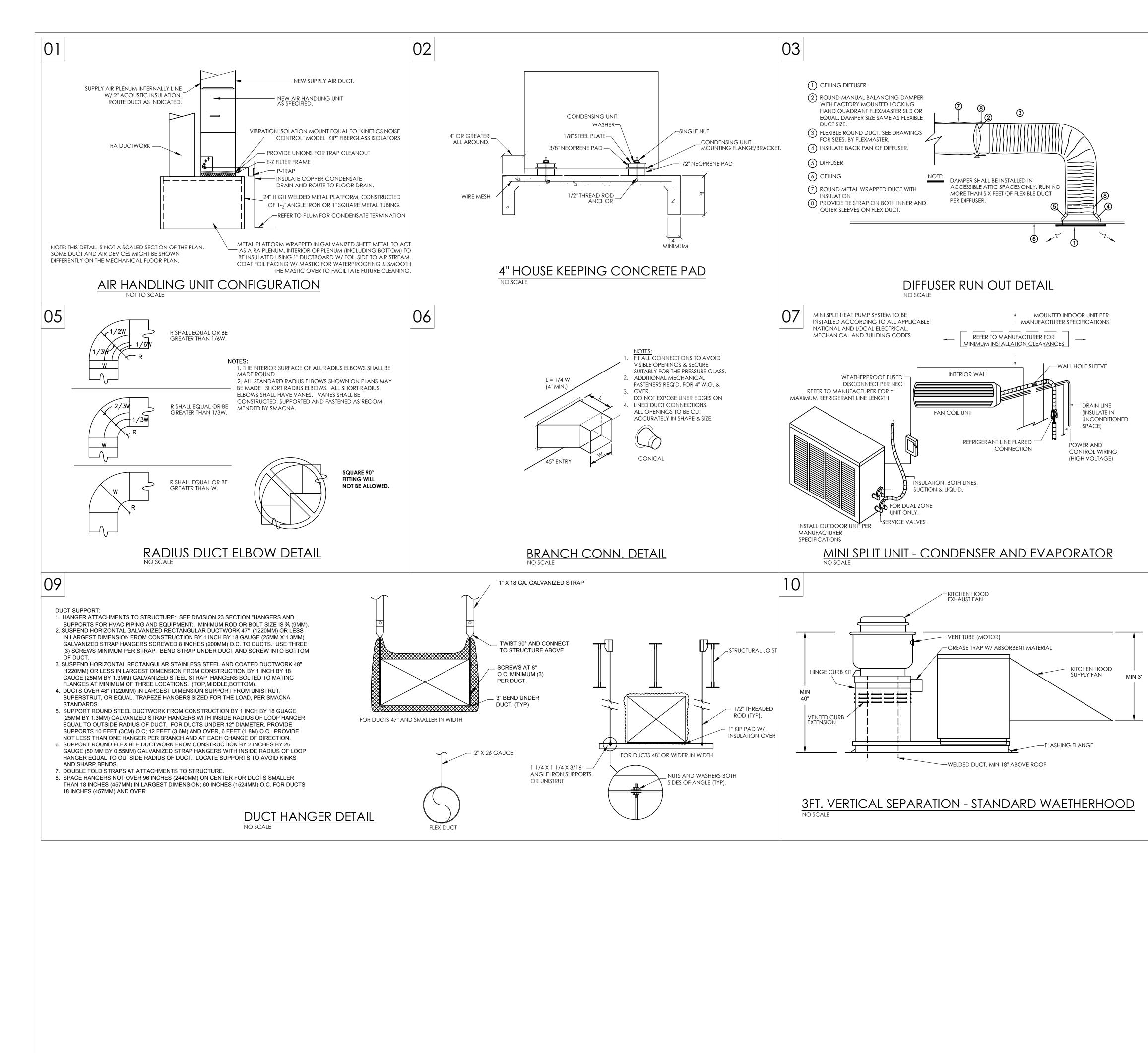
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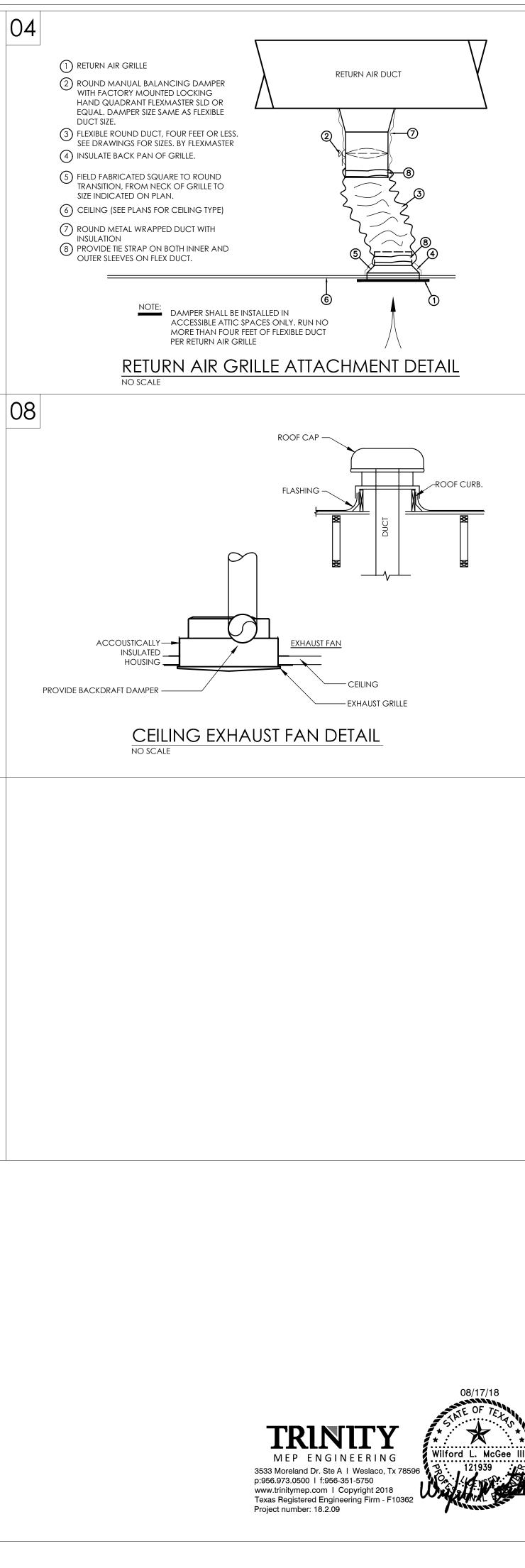
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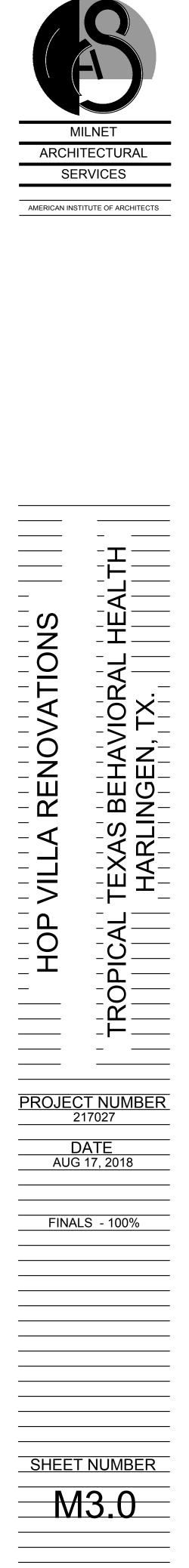


FINALS - 100%









AIR HANDLING U	NIT SC	HEDUL	E				DX MINI-SPLIT SCHE	DULE	FAN SCHEDU	LE				
TAG	AHU-A1,3,5,6,C4	AHU-A2,4,7,B2	AHU-B1	AHU-B3,4,6,C2,3	AHU-B5	AHU-C1	INDOOR UNIT TAG	FC-1	TAG EF-	1-6,9-12,14-16,18-	21 EF-7	EF-8,13	KEF-1	KSF-1
TYPE	sngl zn vav	SNGL ZN VAV	SNGL ZN VAV	SNGL ZN VAV	CONST VOL	SNGL ZN VAV	SERVES	IT ROOM	SERVICE	RRs	RRs	JANITOR	HOOD-1	HOOD-1
FLOW CONFIGURATION	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	LOCATION	WALL	LOCATION	CEILING	ROOF	CEILING	ROOF	ROOF
AREA SERVED					CORRIDORS	KITCHEN	UNIT TYPE	COOLING ONLY	FAN PROPERTIES					
INDOOR UNIT FAN							FAN PROPERTIES		CFM	75	300	50	800	550
SUPPLY CFM	1600	1050	1750	1200	550	1400	MIN SUPPLY (CFM)	250	FAN RPM	681	1544	613	1639	1305
MIN. OUTSIDE AIR (CFM)	200	150	250	100	50	300	MINIMUM O/A (CFM)	0	EXT SP (IN WG)	0.2	0.5	0.2	0.75	0.25
EXT. STATIC INCHES WC	0.5	0.5	0.5	0.5	0.5	0.5	UNIT CAPACITIES		FAN POWER	19 W	1/10 HP - ECM	12 W	1/4 HP - ECM	348 W
MIN FAN POWER	3/4 HP - ECM	1/2 HP - ECM	1.0 HP - ECM	1/2 HP - ECM	1/3 HP - ECM	3/4 HP - ECM	ENTERING AIR (DB/WB)	74/62	VOLTS/PHASE	120/1	120/1	120/1	120/1	120/1
INDOOR UNIT COOLING COIL							TOTAL CAPACITY (BTUH	9,000	SOUND LEVEL	1.0 SONE	7.5 SONES	0.7 SONES	10.1 SONES	4.7 SONES
ENTERING AIR DB/WB (°F)	76.6/64	77.1/64.5	77.1/64.45	75.4/63	76.2/63.2	79.2/66.1	HEATING CAPACITY (BTUH)	0	MOUNTING	CEILING	14" TDI CURB	CEILING	14" TDI CURB	14" TDI CURB
LEAVING AIR DB/WB (°F	55.9/54.5	55.6/53.8	56.1/54	55.4/53.6	53.9/52.4	56.2/55.9	UNIT DETAILS							
MIN. TOTAL/SENSIBLE CAPACITY (MBH)	44/35	32/24	52/39	32/25	16/13	42/34	VOLTAGE/PHASE	208/1	MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
DESIGN RETURN AIR DB/WB (°F)	73/61	73/61	73/61	73/61	73/61	73/61	MANUFACTURER	DAIKIN	MODEL	SP-B90	G-085-VG	SP-B70	CUE-099-VG	KSFD-70-H05-01
DESIGN OUTSIDE AIR DB/WB (°F)	102/81	102/81	102/81	102/81	102/81	102/81	MODEL NO.	FTKN09	MAX WEIGHT	25 lbs	50 lbs	25 lbs	50 lbs	100 lbs
INDOOR UNIT HEATING SELECTION							MAX WEIGHT (LBS)	25	NOTES	1-5	1-7	1-5	1,5-7,9-12	1,3,6,7,12-14
HEATER TYPE/AMBIENT DESIGN DB (°F)	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33								
HEAT INPUT/STAGES	48 MBH/2	36 MBH/2	60 MBH/2	36 MBH/2	18 MBH/1	48 MBH/2	CONDENSING UNIT TAG	FCCU-1	NOTES:					
ENTERING/LEAVING DB (°F)	66/90	65/90	65/90	67/90	67/90	66/90	DETAILS		01. PROVIDE WITH FACTORY INSTALLED	DISCONNECT.				
DETAILS AND ACCESSORIES							VOLTAGE/PHASE	240/1	02. INTERLOCK FAN W/ LIGHTS.					
VOLTAGE/PHASE	240/1	240/1	240/1	240/1	240/1	240/1	MCA/MOCP	15/20	03. PROVIDE W/ BACKDRAFT DAMPER.					
MCA/MOCP	9/15	5/15	10/15	5/15	4/15	9/15	AMB. AIR TEMP. (CLG°F/HTG°F)	100/36	04. PROVIDE W/ FAN SPEED CONTROL.					
							REFRIGERANT	R-410A	05. PROVIDE W/ FAN MOUNTED POTEN	TIOMETER FOR SPE	ED CONTROL.			
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	COOLING MODE OPER. RANGE	15°F - 110°F	06. PROVIDE W/ LIFTING LUGS.					
MODEL	GAM5B0C48	GAM5B0B36	GAM5B0C60	GAM5B0B36	GAM5B0A18	TEM6A0D48	HEATING MODE OPER. RANGE	N/A	07. PROVIDE IBC 2015 COMPLIANT CUR	B & ATTACHMENTS	S FROM UNIT TO CUR	RB & CURB TO STRU	CTURE. EQUIPMENT	OR CURB
NOMINAL UNIT SIZE TONNAGE	4.0 TONS	3.0 TONS	5.0 TONS	3.0 TONS	1.5 TONS	4.0 TONS	MANUFACTURER	DAIKIN	MANUFACTURER IS RESPONSIBLE FO		GINEERED DETAIL AN	ALYSIS OF:		
MAX WEIGHT (Ibs)	175 LBS	150 LBS	175 lbs	150 LBS	125 lbs	175 LBS	MODEL NO.	RKN09	A) ATTACHMENT OF EQUIPMENT TO) CURB.				
NOTES	2-4	2-4	2-4	2-4	2,4	2-4	Max weight (LBS)	75	B) CURB TO STRUCTURE.					
			-	•		•	MIN COOL/HEAT EFFICIENCY	18 SEER/-	C) CURB & ATTACHMENT HARDWA	RE STRENGTH.				
CONDENSING UI	NIT SCH	HEDULE					MAX EQUIV. LINE LENGTH (FT)	66	REFER TO ARCHITECTURAL & STRUCT	URAL DRAWINGS	FOR ROOF SUBSTRAT	TE DETAILS. EQUIPM	ENT OR CURB MANL	JFACTURER IS
		1		•		-	MAX. VERTICAL RISE (FT)	49	ALSO RESPONSIBLE FOR PROVIDING	ENGINEERED INST	ALLATION DRAWING	GS FOR ITEMS 'A' & 'I	B' LISTED ABOVE. BO	TH, THE
TAG	CU-A1,3,5,6,C4	CU-A2,4,7,B2	CU-B1	CU-B3,4,6,C2,3	CU-B5	CU-C1			ENGINEERED ANALYSIS & THE ENGIN		ON DRAWINGS SHAI	ll be performed s	PECIFICALLY FOR TH	IIS BUILDING &
OUTDOOR UNIT ELECTRICAL							CONTROL TYPE	WL-RC	PROJECT SITE & STAMPED & SEALED	BY A TEXAS LICEN	SED ENGINEER. SUBA	MITTALS WILL NOT BE	APPROVED UNTIL A	ALL
VOLTAGE/PHASE	240/1	240/1	240/1	240/1	240/1	240/1	NOTES	ALL	DOCUMENTATION LISTED ABOVE IS		ATELY.			
MCA/MOCP	28/45	21/35	37/60	21/35	9/15	28/45			08. PROVIDE W/ WALL MOUNTED ROTA	RY TIMED DIAL SWI	TCH, 0-60 MINS, LAB	ELED "VENT FAN".		
DETAILS AND ACCESSORIES							NOTES:		09. PROVIDE KITCHEN HOOD EXHAUST F	AN W/ VENTED &	CANTED CURB, FLAS	SHING FLANGE & H	INGE CURB KIT	
MIN COOL/HEAT EFFICIENCY	17 SEER/9.5 HSPF	17 SEER/9.5 HSPF	17 SEER/9.5 HSPF	17 SEER/9.5 HSPF	15 SEER/9 HSPF	17 SEER/9.5 HSPF	01. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT	I POWER FROM	10. FAN TO BE UL/CUL 762 LISTED - "POW	/ER VENTILATORS F	OR RESTAURANT EXH	HAUST APPLIANCES'		
COMPRESSOR QTY/STAGE QTY	1/2	1/2	1/2	1/2	1/1	1/2	SERVICE TO OUTDOOR UNIT & WIRE TO INDOOR UNIT.		11. PROVIDE FAN W/ NONSTICK COATII	NG & GREASE KIT F	OR RESTAURANT AP	PLICATIONS.		
COOL/HEAT AMBIENT DB (°F)	102/33	102/33	102/33	102/33	102/33	102/33	02. WIRELESS REMOTE CONTROLLER.		12. KSF & KEF TO BE CONTROLLED VIA K			· · •		
									13. INTERLOCK KITCHEN SUPPLY FAN W		,	C 508.		
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	03. PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS IF F		14. PROVIDE W/ AUTOMATIC BELT TENSI					
MODEL	4TWR7048	4TWR7036	4TWR7060	4TWR7036	4TWR5018	4TWR7048	04. SEE PLUMBING FOR CONDENSATE ROUTING.							
							05. CONTRACTOR TO PROVIDE CONCRETE PAD TO ANCHO	OR CONDENSER TO.						

AIR HANDLING U	NIT SC	HEDUL	E				DX MINI-SPLIT SCH	EDULE	FAN SCHEDU	LE														
TAG	AHU-A1,3,5,6,C4	AHU-A2,4,7,B2	AHU-B1	AHU-B3,4,6,C2,3	AHU-B5	AHU-C1	INDOOR UNIT TAG	FC-1	TAG EF-	1-6,9-12,14-16,18	-21 EF-7	EF-8,13	KEF-1	KSF-1										
TYPE	sngl zn vav	SNGL ZN VAV	SNGL ZN VAV	SNGL ZN VAV	CONST VOL	SNGL ZN VAV	SERVES	IT ROOM	SERVICE	RRs	RRs	JANITOR	HOOD-1	HOOD-1										
FLOW CONFIGURATION	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	LOCATION	WALL	LOCATION	CEILING	ROOF	CEILING	ROOF	ROOF										
AREA SERVED					CORRIDORS	KITCHEN	UNIT TYPE	COOLING ONLY	FAN PROPERTIES															
INDOOR UNIT FAN							FAN PROPERTIES		CFM	75	300	50	800	550										
SUPPLY CFM	1600	1050	1750	1200	550	1400	MIN SUPPLY (CFM)	250	FAN RPM	681	1544	613	1639	1305										
MIN. OUTSIDE AIR (CFM)	200	150	250	100	50	300	MINIMUM O/A (CFM)	0	EXT SP (IN WG)	0.2	0.5	0.2	0.75	0.25										
EXT. STATIC INCHES WC	0.5	0.5	0.5	0.5	0.5	0.5	UNIT CAPACITIES		FAN POWER	19 W	1/10 HP - ECM	12 W	1/4 HP - ECM	348 W										
MIN FAN POWER	3/4 HP - ECM	1/2 HP - ECM	1.0 HP - ECM	1/2 HP - ECM	1/3 HP - ECM	3/4 HP - ECM	ENTERING AIR (DB/WB)	74/62	VOLTS/PHASE	120/1	120/1	120/1	120/1	120/1										
INDOOR UNIT COOLING COIL							TOTAL CAPACITY (BTUH	9,000	SOUND LEVEL	1.0 SONE	7.5 SONES	0.7 SONES	10.1 SONES	4.7 SONE										
ENTERING AIR DB/WB (°F)	76.6/64	77.1/64.5	77.1/64.45	75.4/63	76.2/63.2	79.2/66.1	HEATING CAPACITY (BTUH)	0	MOUNTING	CEILING	14" TDI CURB	CEILING	14" TDI CURB	14" TDI CU										
LEAVING AIR DB/WB (°F	55.9/54.5	55.6/53.8	56.1/54	55.4/53.6	53.9/52.4	56.2/55.9	UNIT DETAILS																	
MIN. TOTAL/SENSIBLE CAPACITY (MBH)	44/35	32/24	52/39	32/25	16/13	42/34	VOLTAGE/PHASE	208/1	MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHE										
DESIGN RETURN AIR DB/WB (°F)	73/61	73/61	73/61	73/61	73/61	73/61	MANUFACTURER	DAIKIN	MODEL	SP-B90	G-085-VG	SP-B70	CUE-099-VG	KSFD-70-H0										
DESIGN OUTSIDE AIR DB/WB (°F)	102/81	102/81	102/81	102/81	102/81	102/81	MODEL NO.	FTKN09	MAX WEIGHT	25 lbs	50 lbs	25 lbs	50 lbs	100 lbs										
INDOOR UNIT HEATING SELECTION							MAX WEIGHT (LBS)	25	NOTES	1-5	1-7	1-5	1,5-7,9-12	1,3,6,7,12										
HEATER TYPE/AMBIENT DESIGN DB (°F)	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33	HEAT PUMP/33																		
HEAT INPUT/STAGES	48 MBH/2	36 MBH/2	60 MBH/2	36 MBH/2	18 MBH/1	48 MBH/2	CONDENSING UNIT TAG	FCCU-1	NOTES:															
ENTERING/LEAVING DB (°F)	66/90	65/90	65/90	67/90	67/90	66/90	DETAILS		01. PROVIDE WITH FACTORY INSTALLED DISCONNECT.															
DETAILS AND ACCESSORIES							VOLTAGE/PHASE	240/1	02. INTERLOCK FAN W/ LIGHTS.															
VOLTAGE/PHASE	240/1	240/1	240/1	240/1	240/1	240/1	MCA/MOCP	15/20	03. PROVIDE W/ BACKDRAFT DAMPER.															
MCA/MOCP	9/15	5/15	10/15	5/15	4/15	9/15	AMB. AIR TEMP. (CLG°F/HTG°F)	100/36	04. PROVIDE W/ FAN SPEED CONTROL.															
							REFRIGERANT	R-410A	05. PROVIDE W/ FAN MOUNTED POTENTIOMETER FOR SPEED CONTROL.															
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	COOLING MODE OPER. RANGE	15°F - 110°F	06. PROVIDE W/ LIFTING LUGS. 07. PROVIDE IBC 2015 COMPLIANT CURB & ATTACHMENTS FROM UNIT TO CURB & CURB TO STRUCTURE. EQUIPMENT OR CURB															
MODEL	GAM5B0C48	GAM5B0B36	GAM5B0C60	GAM5B0B36	GAM5B0A18	TEM6A0D48	HEATING MODE OPER. RANGE	N/A																
NOMINAL UNIT SIZE TONNAGE	4.0 TONS	3.0 TONS	5.0 TONS	3.0 TONS	1.5 TONS	4.0 TONS	MANUFACTURER	DAIKIN	MANUFACTURER IS RESPONSIBLE FO	R PROVIDING EN	GINEERED DETAIL AN	ALYSIS OF:												
MAX WEIGHT (Ibs)	175 LBS	150 LBS	175 lbs	150 LBS	125 lbs	175 LBS	MODEL NO.	RKN09	A) ATTACHMENT OF EQUIPMENT TO	O CURB.														
NOTES	2-4	2-4	2-4	2-4	2,4	2-4	MAX WEIGHT (LBS)	75	B) CURB TO STRUCTURE.															
							MIN COOL/HEAT EFFICIENCY	18 SEER/-	C) CURB & ATTACHMENT HARDWA	RE STRENGTH.														
CONDENSING U	NII SCI	1EDULE					MAX EQUIV. LINE LENGTH (FT)	66	REFER TO ARCHITECTURAL & STRUCT	URAL DRAWINGS	FOR ROOF SUBSTRAT	e details. Equipm	ENT OR CURB MANU	JFACTURER IS										
			I			1	MAX. VERTICAL RISE (FT)	49	ALSO RESPONSIBLE FOR PROVIDING	ENGINEERED INS	TALLATION DRAWING	s for items 'a' & '	b' listed above. Bc)TH, THE										
TAG	CU-A1,3,5,6,C4	CU-A2,4,7,B2	CU-B1	CU-B3,4,6,C2,3	CU-B5	CU-C1			ENGINEERED ANALYSIS & THE ENGIN	IEERED INSTALLAT	ION DRAWINGS SHAL	l be performed s	PECIFICALLY FOR TH	IS BUILDING &										
OUTDOOR UNIT ELECTRICAL							CONTROL TYPE	WL-RC	PROJECT SITE & STAMPED & SEALED	BY A TEXAS LICEN	NSED ENGINEER. SUBA	NITTALS WILL NOT BE	E APPROVED UNTIL A	4LL										
VOLTAGE/PHASE	240/1	240/1	240/1	240/1	240/1	240/1	- NOTES	ALL	DOCUMENTATION LISTED ABOVE IS	PROVIDED ACCU	RATELY.													
MCA/MOCP	28/45	21/35	37/60	21/35	9/15	28/45	-		08. PROVIDE W/ WALL MOUNTED ROTA	ry timed dial sv	ITCH, 0-60 MINS, LAB	ELED "VENT FAN".												
DETAILS AND ACCESSORIES							NOTES:		09. PROVIDE KITCHEN HOOD EXHAUST F	AN W/ VENTED 8	CANTED CURB, FLAS	HING FLANGE & H	IINGE CURB KIT											
MIN COOL/HEAT EFFICIENCY	17 SEER/9.5 HSPF	17 SEER/9.5 HSPF	17 SEER/9.5 HSPF	17 SEER/9.5 HSPF	15 SEER/9 HSPF	17 SEER/9.5 HSPF	01. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCU	JIT POWER FROM	10. FAN TO BE UL/CUL 762 LISTED - "POW	ER VENTILATORS	FOR RESTAURANT EXH	AUST APPLIANCES												
COMPRESSOR QTY/STAGE QTY	1/2	1/2	1/2	1/2	1/1	1/2	SERVICE TO OUTDOOR UNIT & WIRE TO INDOOR UNIT.		11. PROVIDE FAN W/ NONSTICK COATIN	NG & GREASE KIT	for restaurant ap	plications.												
COOL/HEAT AMBIENT DB (°F)	102/33	102/33	102/33	102/33	102/33	102/33	02. WIRELESS REMOTE CONTROLLER.	12. KSF & KEF TO BE CONTROLLED VIA K	ITCHEN CONTRO	L PANEL, KC-1.														
							03. PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS IF	13. INTERLOCK KITCHEN SUPPLY FAN W	RESPECTIVE EXH	AUST FAN, AS PER IMO	C 508.													
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	04. SEE PLUMBING FOR CONDENSATE ROUTING.	14. PROVIDE W/ AUTOMATIC BELT TENSI	oners.															
MODEL	4TWR7048	4TWR7036	4TWR7060	4TWR7036	4TWR5018	4TWR7048	05. CONTRACTOR TO PROVIDE CONCRETE PAD TO ANCH																	
NOMINAL UNIT SIZE TONNAGE	4.0 TONS	3.0 TONS	5.0 TONS	3.0 TONS	1.5 TONS	4.0 TONS	06. CONTRACTOR TO PROVIDE LINE SETS.	UNIX CONDENSENTO.																
MAX WEIGHT	250 lbs	300 lbs	325 lbs	300 lbs	150 lbs	250 lbs				CHED	JULE													
NOTES	1-4	1-4	1-4	1-4	1,2,4	1-4	07. SIGHT GLASSES, FILTER DRYERS, & FIELD SUPPLIED EXPAIN NOT TO BE USED ON THIS EQUIPMENT.	INSION VALVES AKE																

NOTES:

01. PROVIDE CONDENSER W/ FACTORY HAIL GUARDS & RUBBER ISOLATOR MOUNTING KIT.

02. PROVIDE W/ SINGLE POINT PWR; TRANE, CARRIER, LENNOX, ACCEPTABLE MFGs. 03. PROVIDE W/ SINGLE ZONE VAV CONTROL.

04. CLEARANCES SHOWN ON PLANS ARE FOR SCHEDULED MAKE/MODEL. IF A SUBSTITUTION IS MADE, CONTRACTOR TO ASSUME RESPONSIBILITY FOR PROVIDING CLEARANCES AS PER SELECTED MANUFACTURER.

KITCHEN HOOD SCH	IEDULE	ROOF CAP SCHEDULE									
TAG	HOOD-1	TAG	RC-1	RC-2	RC-3	RC-4					
ТҮРЕ	WALL CANOPY	TYPE	EXHAUST	INTAKE	INTAKE	INTAKE					
DIMENSIONS		SERVES	EF's	AHU's	AHU's	AHU's					
HOOD LENGTH (IN)	48	LOCATION	ROOF	ROOF	ROOF	ROOF					
HOOD DEPTH (IN)	39	DETAILS AND ACCESSORIES									
FRONT AIR CURTAIN DEPTH (IN)	14	MAX AIR VOL. (CFM)	250	500	350	800					
REAR AIR CURTAIN DEPTH (IN)	0	NECK SIZE (INCHES)	8''x8''	12"x12"	10"x10"	14"x14"					
LEFT AIR CURTAIN DEPTH (IN)	0	MAX PRESSURE DROP (IN WG)	0.05	0.0375	0.0375	0.05					
RIGHT AIR CURTAIN DEPTH (IN)	0	MAX. THROAT VELOCITY (FPM)	575	500	525	600					
OVERALL HOOD LENGTH (IN)	48	INCLUDED SCREEN(S)	BIRD	BIRD	BIRD	BIRD					
OVERALL HOOD DEPTH (IN)	53	HOUSING MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM					
AIR FLOW DETAILS		ROOF CURB HEIGHT	14" TDI CURB	14" TDI CURB	14" TDI CURB	14" TDI CURB					
EXAUST CFM	800										
NUMBER OF COLLARS	1	MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK					
MIN EXHAUST COLLAR AIR SPEED (FPM)	1500	MODEL	FGR	FGI	FGI	FGI					
		NOTES	1,2	1,2	1,2	1,2					
SUPPLY AIR CONFIGURATION	AIR CURTAIN										
SUPPLY CFM	550	NOTES:									
NUMBER OF COLLARS	2	01. TO BE HIGH WIND RATED.									
		02. PROVIDE W/ 2015 IBC COMPLIANT	ROOF CURB, ANC	HOR CAP TO STRUCT	TURE VIA CURB IN CO	OMPLIANCE W/ T					
MANUFACTURER	GREENHECK										
MODEL	GXEW										
NOTES:	1-14		SCHE	DULE							
NOTES		TAG	UI	1-1							
01. PROVIDE PREWIRED FOR POWER AND LIGHTS		SERVICE/LOCA	TION RISER	ROOM							
02. PROVIDE HANGER BRACKETS.		DETAILS & ACCESSORIES									
03. U.L. LISTED WITHOUT FIRE DAMPER		VOLTS/P	HASE 24	0/1							
04. U.L. TEMPERATURE RATING (600 DEGREES F)		POWERI	INPUT 1	ĸw							
05. PROVIDE INCANDESCENT LIGHT FIXTURES - MIN. 40 FOOT (AMPER	RAGE	5							
06. GREASE CUP MOUNTED ON LEFT END OF HOOD	CANDELS										
07. INTEGRAL 3" AIR SPACE ON HOOD BACK ONLY	MANUFACT	RKEL									
08. PROVIDE WITH FIRE SUPPRESSION SYSTEM.		M	series)								
09. PROVIDE WITH TIKE SUPPRESSION STSTEM. 09. PROVIDE WITH END SKIRTS (WHERE APPLICABLE).		NOTES ALL									
10. PLACE HOOD 78" ABOVE FINISHED FLOOR.											
11. PROVIDE W/ FILTERS W/ A SPECIFIED CUT POINT @ 5 MICR		NOTES:									
12. PROVIDE FOR BACKSPLASH ON REAR & LEFT SIDES OF HO		01. PROVIDE W/ AUTOMATICE ON/OFF	VIA THERMOSTAT.								
12, I KOYIDE I OK DAGKJI LAJIT ON KLAK & LLI I JIDEJ OF HO		02 UNIT TO SWITCH ON WHEN SPACE T	EMPERATURE REAC	CHES 35°							

13. PROVIDE W/ TEMPERATURE SENSOR(S) IN HOOD TO AUTO-ENGAGE VENT FANS. 14. PROVIDE W/ FIRE SUPRESSION UTILITY CABINET ON LEFT END OF HOOD.

NOT TO BE USED ON THIS EQUIPMENT.

08. INSTALL PER MANUFACTURERS INSTRUCTIONS & PIPING RECOMMENDATIONS. 09. PROVIDE W/ OPTIONS/ACCESSORIES REQ. FOR LOW AMBIENT COOLING.

TAG	Α	В	С	D	E
SERVICE TYPE	SUPPLY	SUPPLY	RETURN	RETURN	SUPPLY
PHYSICAL PROPERTIES					
FACE SIZE	24"x24"	12"x12"	24''x24''	12"x12"	24"x24"
NECK SIZE	SEE PLANS	SEE PLANS	SEE PLANS	see plans	SEE PLANS
MOUNTING SURFACE	CEILING	CEILING	CEILING	CEILING	CEILING
DETAILS AND ACCESSORIES					
DAMPER TYPE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE
ACCESSORY	INSUL BACKPAN	INSUL BACKPAN	INSUL BACK PAN	INSUL BACK PAN	INSUL BACK PAN
COLOR FINISH	WHITE	WHITE	WHITE	WHITE	WHITE
MATERIAL	STEEL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE
MODEL	SCD	ASCD	80	80	APDN
NOTES					1

NOTES: 01. REMOVE AIR PATTERN CONTROLLERS FOR SUPPLY AIR DEVICES SERVING KITCHEN/COOKING/SERVING AREAS.

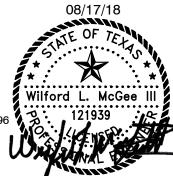
02. UNIT TO SWITCH ON WHEN SPACE TEMPERATURE REACHES 35°. 03. PROVIDE W/ DISCONNECT. 04. PROVIDE W/ SURFACE MOUNT FRAME

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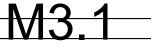
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PROJECT NUMBE	=R
217027	

DATE AUG 17, 2018

FINALS - 100%

SHEET NUMBER



_____ _____

HOOD INFORMATION

		HOOD	DIMENSI	ONS (IN.)			IG		EXHA	UST				SUPPL	Y	TOTAL	
MARK	MODEL		міртц				TOTAL		C	OLLAR(S)		M	JA	AC	WEIGHT	SECTION LOCATION
		LLINGTI						WIDTI	I LENGTH	DIA.	CFM	S.P.	CI	-M 🛛 🔾	CFM	LBS.	LOOAHON
		10	20	24			v 000	8	9		800	0.516	5	50		104	SINGLE
HOOD-1	GAEW-40-C	4 0	- 39	24	EXPOSED	TIEAV								50		124	SINGLE
NFORMATION																	
		LIGHTING D	ETAILS		GRE	ASE FIL	TRATION	DETAILS				UTILITY	CAB	INET(S)			
MARK	FIXTU	JRE TYPE	PE FOOT		T TYPE / MODEL			SIZE (II			FIRE SYSTEM				CC	ONTROLS	5
	BULB /	LAMP INFC			ES M	ATERIA		LI			TYPE		SIZE	E MOI	DEL	INTE	RFACE
	INCANDES	CENT (GLC	BE)		с X-	TRACTO	R 3	16									
HOOD-1	100W A19 (B	ULBS NOT I	NCL.)	. 39.0	⁰ STAIN	ILESS S	TEEL 0	20 2	0								
Y PLENUM INFORMATION																	
		SIZE (IN.)					LED L	GHT(S)	TOTAL	-			С	OLLARS	;		
WARK	P03. 11		W H				SUPPLIE	D QTY	CFM	TYPE	MOUNTI	NG QTY	/ W	L DIA	. CFI	M S.P	. VEL.
HOOD-1	FRONT AS	SP 61	14 10) N(C	NO	NO		550	MUA	FACTO	RY 2	10	10	27	5 0.05	5 396
OPTIONS																	
	HOOD-1 NFORMATION MARK HOOD-1 Y PLENUM INFORMATION MARK HOOD-1	HOOD-1 GXEW-48-S NFORMATION MARK FIXTU BULB / HOOD-1 INCANDES 100W A19 (B Y PLENUM INFORMATION MARK POS. TY HOOD-1 FRONT AS	MARKMODELLENGTHHOOD-1GXEW-48-S48NFORMATIONIIGHTING DMARKFIXTURE TYPEBULB / LAMP INFOHOOD-1INCANDESCENT (GLO 100W A19 (BULBS NOT I 100W A19 (BULBS NOT I))	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	HOOD-1GXEW-48-S483924NFORMATIONIIGHTING DETAILSMARKFIXTURE TYPE BULB / LAMP INFOQTYFOO CANDLHOOD-1INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)239.81Y PLENUM INFORMATIONPOS.TYPESIZE (IN.) LINSULAMARKPOS.TYPEINSULAHOOD-1FRONTASP611410	MARKMODELLINGTHWIDTHHEIGHTHOOD CONSTR.HOOD-1GXEW-48-S483924 $\frac{430}{8}$ SS WHERE EXPOSEDNFORMATIONILIGHTING DETAILSGREMARKFIXTURE TYPE BULB / LAMP INFOQTYFOOT CANDLESTYPE MARKHOOD-1INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)239.86X-1Y PLENUM INFORMATIONTYPE LSIZE (IN.) LINSULATED DAWDAW HOOD-1MARKPOS.TYPE LSIZE (IN.) LINSULATED DAWDAW	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	MARKMODELLENGTHWIDTHHEIGHTHOOD CONSTR.LOAD / DUTY RATINGTOTAL CFMHOOD-1GXEW-48-S483924430 SS WHERE EXPOSEDHEAVY800NFORMATIONMARKFIXTURE TYPE BULB / LAMP INFOQTYFOOT CANDLESTYPE / MODEL MATERIALQTYHOOD-1INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)239.86X-TRACTOR STAINLESS STEEL3Y PLENUM INFORMATIONPOS.TYPE LWHINSULATED SUPPLIEDDAMPER(S)LED LI SUPPLIEDMARKPOS.TYPE LWHINSULATED NODAMPER(S)LED LI SUPPLIEDHOOD-1FRONTASP611410NONONO	MARKMODELHOOD JUNE HOLORO (INF) LENGTHHOOD WIDTHHOOD CONSTR.LOAD / DUTY RATINGTOTAL CFMTOTAL WIDTHHOOD-1GXEW-48-S483924430 SS WHERE EXPOSEDHEAVY8008NFORMATIONIIGHTING DETAILSGREASE FILTRATION DETAILSBREASE FILTRATION DETAILS8001MARKFIXTURE TYPE BULB / LAMP INFOQTYFOOT CANDLESTYPE / MODEL MATERIALQTYSIZE (IN) STAINLESS STEELQTYSIZE (IN) STAINLESS STEEL16 22Y PLENUM INFORMATIONPOS.TYPE LSIZE (IN.) 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UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #MH11726

BACK INTEGRAL AIR SPACE - 3 IN WIDE

RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE

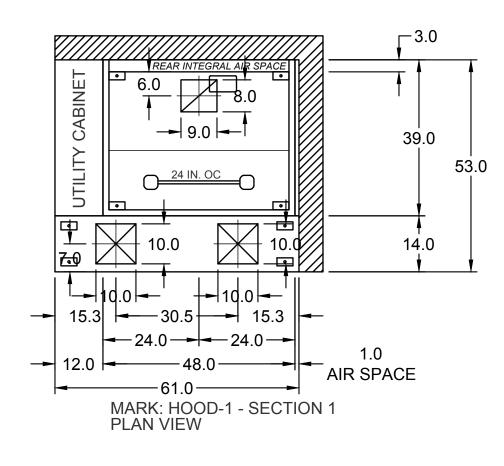
FACTORY MOUNTED EXHAUST COLLAR(S)

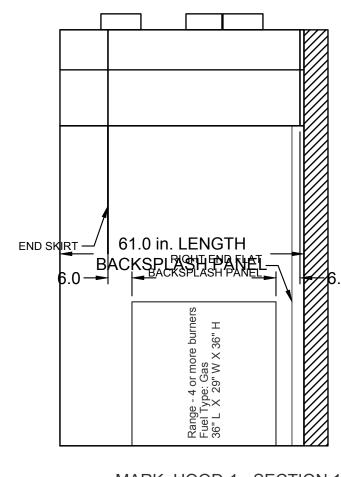
LEFT MINI END SKIRT - 30 IN HIGH 30.00 IN TOP WIDTH 4.0 IN BOTTOM WIDTH

BACKSPLASH 80.00 IN HIGH 61.00 IN LONG RIGHT SIDESPLASH 80.00 IN HIGH 39.00 IN LONG

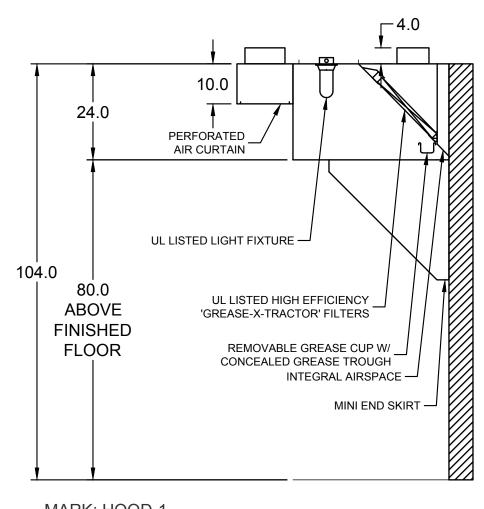
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY

STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

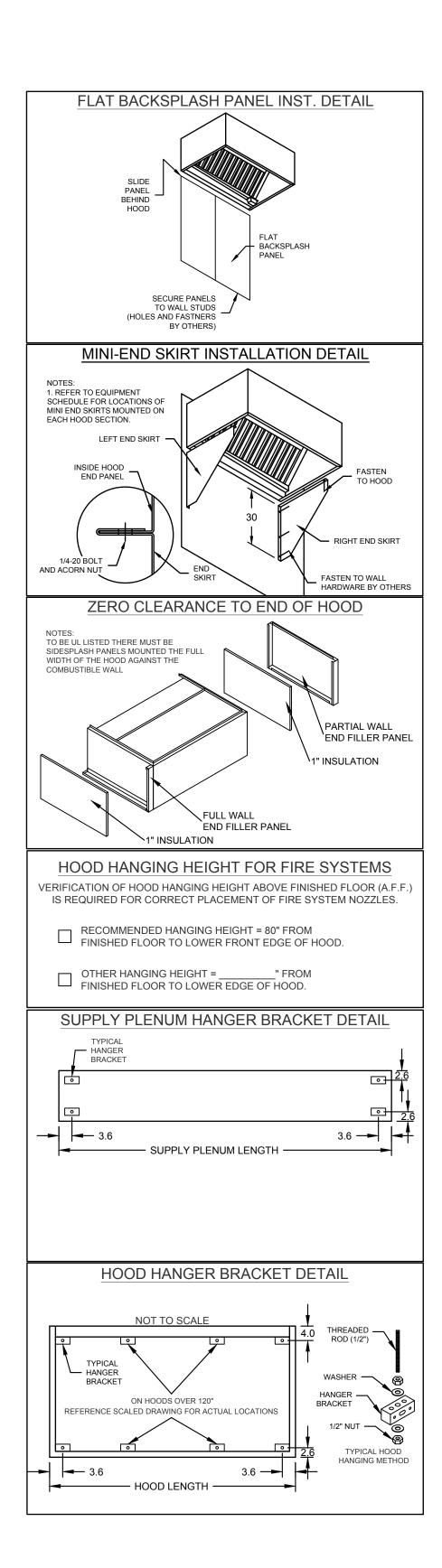






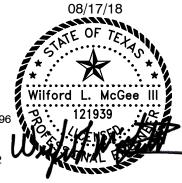


MARK: HOOD-1 SECTION VIEW





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MEP ENGINEERING
3533 Moreland Dr. Ste A Weslaco, Tx 785 p:956.973.0500 f:956-351-5750
www.trinitymep.com I Copyright 2018
Texas Registered Engineering Firm - F10362
Project number: 18.2.09



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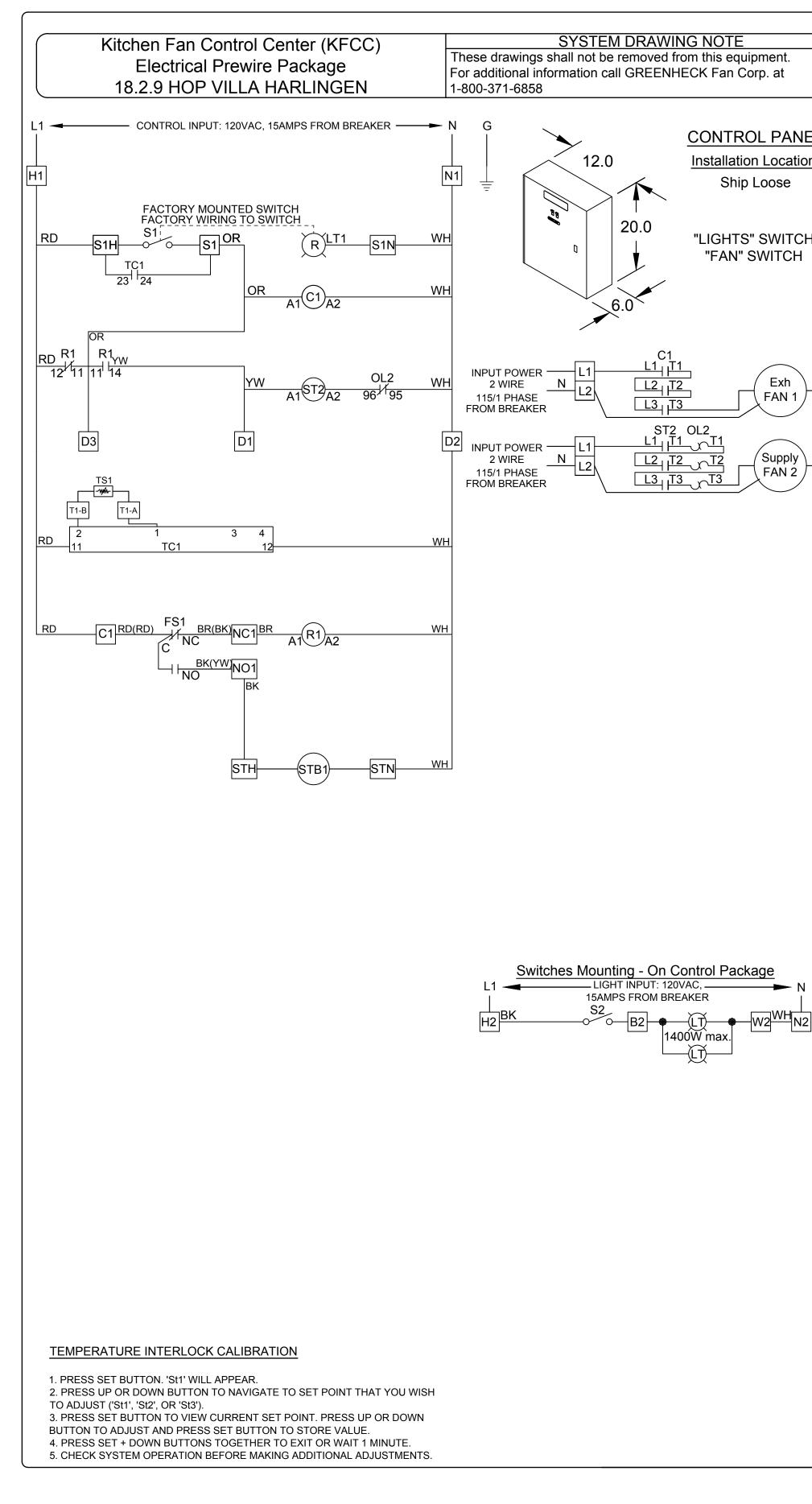
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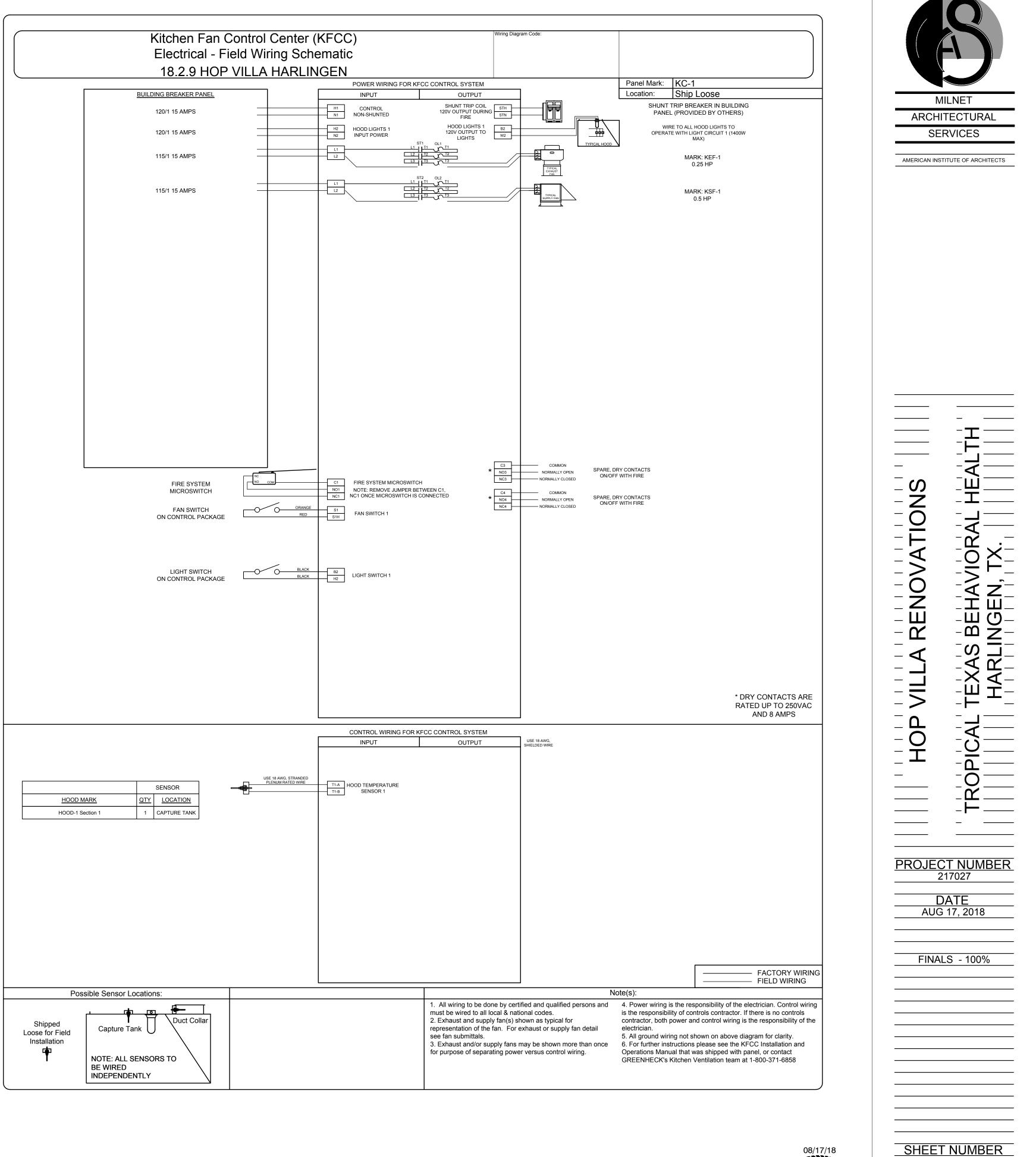
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FINALS - 100%

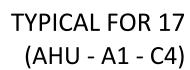


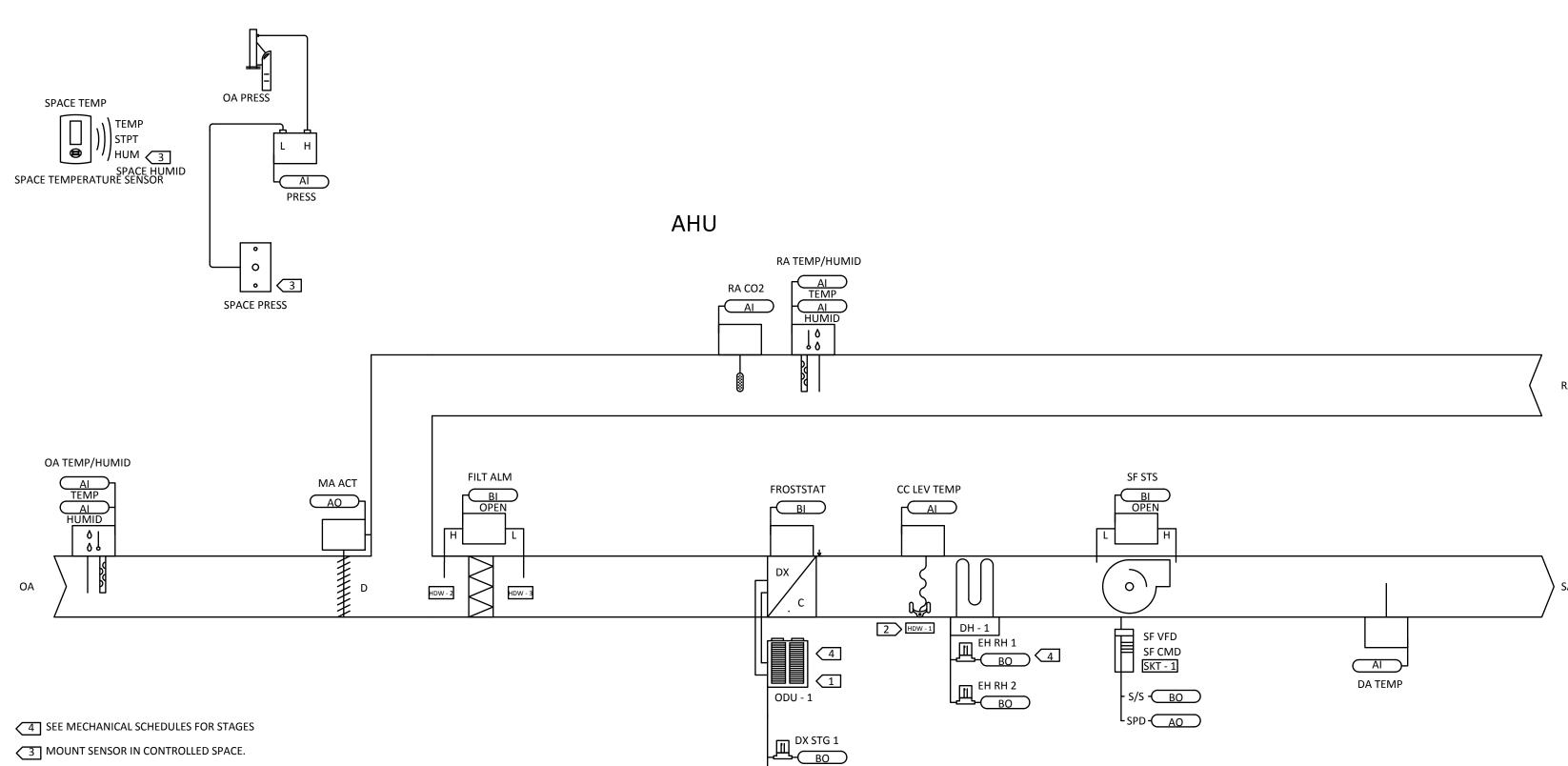
	-
	Panel Mark: KC-1
L	Hood Mark(s):
<u>-</u> :	Serial Number: Model: KFCC
-	Motor Fan Mark HP Volt PH FLA Wire Breaker F1-E KEF-1 0.25 115 1 5.8 14 ga 15 amp
	F1-E KEF-1 0.25 115 1 5.8 14 ga 15 amp F2-S KSF-1 0.5 115 1 9.8 14 ga 15 amp
	1Qty. Fan Switches (0-3)XExhaust in Fire1Qty. Light Switches (0-3)MUA Interface0Qty. Temp. Switches (0-1)Lights Out in Fire
~	One Switch for L & F X Fire Relay (#1) X Digitial Temperature Interlock Extra Fire Relay (#2)
G	1 Mounted Sensors - Factory Extra Fire Relay (#3) 0 Mounted Sensors - Field DPDT Relay w/SF Heat Switch Tempering SW DPDT Relay w/EF
Ŧ	Heat Switch Cool Switch AD Switch Heat Switch Tempering SW Off Delay Relay SF Failure Light
G	Remote Switches EF Failure Light Audible Alarm Fan Failure Light (Appl.)
ĭ	Gas Reset Gas Off w/Fans Aux. Supply Contact Power for Gas Solenoid Tie in WWCP X Power for Shunt Trip
Ξ	Spare Fire Switch Contact (dry contacts for building alarm) C2 RD/RD Ansul / Amerex
	NC2 BR/BK RD/RD BR/BK BR/BK
	Spare Relay Contacts (activated by FS1) (can be used for shunt trip, alarms, etc.)
	-C3 RD - C4 RD
	$A - \frac{NO3}{BR} \frac{BK}{21} R1 A - \frac{NO4}{BK} \frac{BK}{31} R1$
	$B \xrightarrow{\text{NC3}} 24 \stackrel{\text{FI}}{24} B \xrightarrow{\text{NC4}} 34 \stackrel{\text{PI}}{34}$
	A closed on fire or no power
	open on fire or no power
	TORQUE: FIELD WIRING:
	TERMINAL BLOCKS = 8 LB.IN USE MINIMUM GROUNDING BLOCKS = 8 LB.IN 60° Copper Wire
	LABEL DESCRIPTION EF Exhaust Fan
	SF Supply Fan FIELD WIRING ST Starter ALL WIRING 90°C 14 GA.
	C Contactor UNLESS SPECIFIED G Ground
	S Switch LT Light WIRE COLOR FS Fire Switch BK block
	R Relay BL - black AF Air Flow Switch BL - brown
	STB Shunt Trip Breaker D Damper PR - purple
	EC Evap Cooler WH - white
	TC Temperature Controller
	NOTES: DRAWING SHOWN DE-ENERGIZED AT L1 (TERM. #H1),
	W/ FIRE SYSTEM ARMED (NON-FIRE MODE). (NORMAL OPERATION, R1 & R2 ARE ENERGIZED) IF WALL
	MOUNTED PREWIRE, OR FIELD INSTALLED FIRE SYSTEM, THE FIRE SYSTEM MICROSWITCHES MUST
	BE FIELD WIRED.
	LISTED ELECTRICAL RATINGS: 120V, 1PHASE, 60HZ, 15A 43BM FILE #E200616
	Wiring Diagram Code:









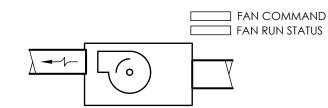


DX STG 2

2 USE A MINIMUM OF THREE (3) MOUNTING CLIPS PER AVERAGING SENSOR.

T REFER TO CONDENSING UNIT WIRING DETAIL ON FOLLOWING PAGES.

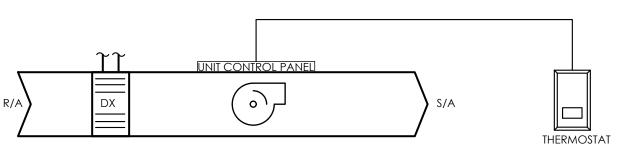
EXHAUST FANS



EXHAUST FAN CONTROLS:

- A. EXHAUST FAN OPERATION SHALL BE DICTATED BY THE BAS SYSTEM UNDER A TIME OF DAY SCEHDULE UNLESS INTERLOCKED WITH AN AIR HANDLER SYSTEM IN WHICH CASE THE AIR HANDLER OF OPERATION SHALL DICTATE OPERATION. THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, AFTER THE DAMPER STATUS HAS PROVEN (IF APPLICABLE), UNLESS SHUTDOWN ON SAFETIES. THE BAS SHALL MONITOR THE FAN STATUS.
- B. ANY EXHAUST FAN CURRENTLY ON SWITCHES TO REMAIN, BUT NO TO BE DISABLED OUTSIDE OF OCCUPIED SCHEDULE.





SPACE TEMP SPACE TEMP(°F)

SEQUENCE OF OPERATIONS: COMPUTER ROOM MONITORING A. SPACE TEMPERATURE MONITORING: THE BAS CONTROLLER SHALL MONITOR THE COMPUTER ROOM SPACE TEMPERATURE AND GENERATE ALARM IF THE

SPACE TEMPERATURE GOES OUT ± 2°F FROM NORMAL OPERATING SET POINT INITIALLY AT 72° F (ADJ.) VIA BMS SYSTEM.

Sequence of Operations SZ VAV AHU – 1~8 Flow

Building Automation System Interface: The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up/Pre-Cool, Occupied/Unoccupied and Heat/Cool modes. If a BAS is

not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints. Occupied: During occupied periods, the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The DX cooling and electric heat shall stage to maintain the discharge air temperature setpoint. If

economizing is enabled the outside air damper shall modulate to maintain the discharge

air temperature setpoint. The discharge air temperature setpoint shall be dynamically

reset based on the deviation of actual space temperature from the active space

temperature setpoint. If the discharge air temperature sensor fails the DX cooling and electric heat shall stage to maintain the active space temperature setpoint and an alarm shall be annunciated at the BAS. If the discharge air temperature sensor and the space temperature sensor fail the DX cooling and electric heat shall be disabled and an alarm

shall be annunciated at the BAS.

Unoccupied

When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start, the outside air damper shall remain closed and the electric heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the electric heat shall be disabled. When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F

(adj.) the supply fan shall start, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Optimal Start: The BAS shall monitor the scheduled occupied time, occupied space setpoints and space RA

temperature to calculate when the optimal start occurs. Morning Warm-Up Mode: During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. The outside air damper shall remain closed. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:

During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:

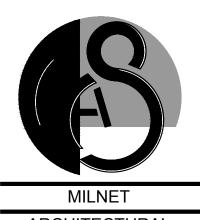
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint. Outside air damper shall remain enabled to provide minimum ventilation.

Occupied Bypass:

The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.). Heat/Cool Mode:

When the space temperature rises above the occupied cooling setpoint the mode shall transition to cooling. When the space temperature falls below the occupied heating setpoint the mode shall transition to heating. When the space temperature is above the occupied cooling setpoint or below the occupied heating setpoint the mode shall

remain in its last state. If the space temperature sensor fails the mode shall remain in its last state and an alarm shall be annunciated at the BAS. If the local and communicated setpoints fail the controller shall disable the supply fan and an alarm shall be annunciated at the BAS.



ARCHITECTURAL SERVICES

AMERICAN INSTITUTE OF ARCHITECTS

Supply Air Temperature Reset Control: On a rise in space temperature (+2.0 deg. F adj. or greater) above the space cooling

setpoint (74.0 deg. F adj.); the supply fan speed shall modulate from minimum (50% adj.) to maximum (or design) air flow to maintain space cooling temperature setpoint while keeping the discharge air temperature setpoint at minimum (55.0 deg. F adj.). As space temperature decreases below 76.0 deg. F (space cooling setpoint 74.0 deg. F + 2.0 deg. F); the fan speed shall be locked at minimum air flow and the discharge air temperature setpoint remains at minimum.

When space temperature decreases to 75.0 deg. F (cooling setpoint of 74.0 deg. F adj. + 1.0 deg. F) or below for a period of time (default 1 min. adj.); the fan speed shall remain at minimum, the discharge air temperature setpoint remains at minimum, and control enters into discharge air temperature setpoint reset mode. As space temperature continues to drop below 75.0 deg. F (space temperature cooling setpoint + 1.0 deg. F); the fan speed shall remain at minimum and the discharge air temperature setpoint shall be reset from minimum (55.0 deg. F adj.) to maximum (65.0 deg. F adj.) as space temperature drops from 75.0 deg. F to 74.0 deg. F to maintain the

space cooling temperature setpoint. On a continued drop of space temperature below the space cooling temperature setpoint (74.0 deg. F adj.) through (71.0 deg. F adj.) the space temperature control shall be within its deadband; the fan speed remains at minimum and discharge air setpoint of (65.0 deg. F adj.) for cooling.

As space temperature decreases to the heating setpoint (71.0 deg. F adj.) the control shall switch to the heating discharge air temperature reset. In the heating mode, the staged heat will be enabled; the supply fan shall remain at minimum air flow and the discharge air temperature setpoint shall be reset from 70.0 deg. F to 90.0 deg. F as the space temperature drops from 71.0 deg. F to 70.0 deg. F. As space temperature continues to decrease to heating setpoint (71.0 deg. F adj.) - 1.0 deg. F; the discharge air temperature setpoint shall remain at maximum (90.0 deg. F adj.), the fan shall be modulated from minimum to maximum air flow to maintain the space temperature heating setpoint. When the space temperature increases the reverse control shall be implemented.

Occupied Humidity Control: If the space relative humidity is greater than 50% (adj.), the DX cooling shall stage to maintain space relative humidity setpoint of 50% (adj.) and the electric heat shall stage to maintain the discharge air temperature setpoint. Mode shall terminate when the space relative humidity falls below the relative humidity setpoint of 50% (adj.) minus 3% (adj.). If the space relative humidity sensor fails, the dehumidification sequence shall be terminated and an alarm shall be annunciated at the BAS.

The discharge air temperature sensor shall measure the dry bulb temperature of the air leaving the cooling coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall be modulated between its minimum position and 100% to maintain the space temperature setpoint. The economizer damper shall modulate toward minimum position in the event the mixed air temperature falls below the low temperature limit setting. Comparative Enthalpy

Outside air (OA) enthalpy shall be compared with Return air (RA) enthalpy point. The economizer shall enable when OA enthalpy is less than RA enthalpy - 2.0 BTU/LB. The economizer shall disable when OA enthalpy is greater than RA enthalpy. Demand Control Ventilation

When the input CO2 Concentration setpoint (adj.) is reached, the economizer shall start to modulate open to bring in more fresh air to reduce the space CO2 level. The outside air damper shall modulate open in small increments until the space CO2 level is satisfied or the outside air damper reaches the full open position. If the input CO2 Concentration falls, the outside air damper shall modulate toward normal economizer operation. If the mixed air temperature drops below the mixed air low limit setpoint the space CO2 sensor input is overridden and modulates the outside air damper closed to maintain the mixed air temperature low limit setpoint. When the mixed air temperature rises above the mixed air low limit setpoint, CO2 operation is once again restored.

Supply Fan:

The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode. The unit controller shall vary the supply fan speed to optimize minimum fan speed in all cooling and heating modes. A differential pressure switch shall monitor the differential pressure across the fan. If the switch does not open within 30 seconds after a request for fan operation a fan failure alarm shall be annunciated, the unit shall stop, requiring a manual reset.

Space Pressure Control:

The exhaust fan shall be enabled when the supply fan is running and the space static is greater than the space static setpoint0.08 inches of W.C.(adj.). When enabled the exhaust fan shall modulate between minimum speed (default of 25%) and maximum speed (100%) to maintain the space static setpoint, but limited to not exceed the supply fan speed. When the space pressure falls below setpoint by 0.03 inches of W.C. and the exhaust fan speed is at or below minimum speed, the fan shall be disabled. Upon space static pressure sensor failure , the exhaust fan shall be enabled based on

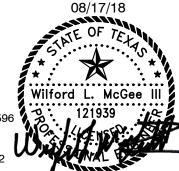
outdoor air damper position greater than exhaust fan Outdoor Air Damper Enable Setpoint BAS of 25% (adj.). The exhaust fan speed shall track the outdoor air damper position, but not to exceed the supply fan speed.

Filter Status:

A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes during normal operation a dirty filter alarm shall be annunciated at the BAS.



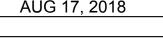
Project number: 18.2.09



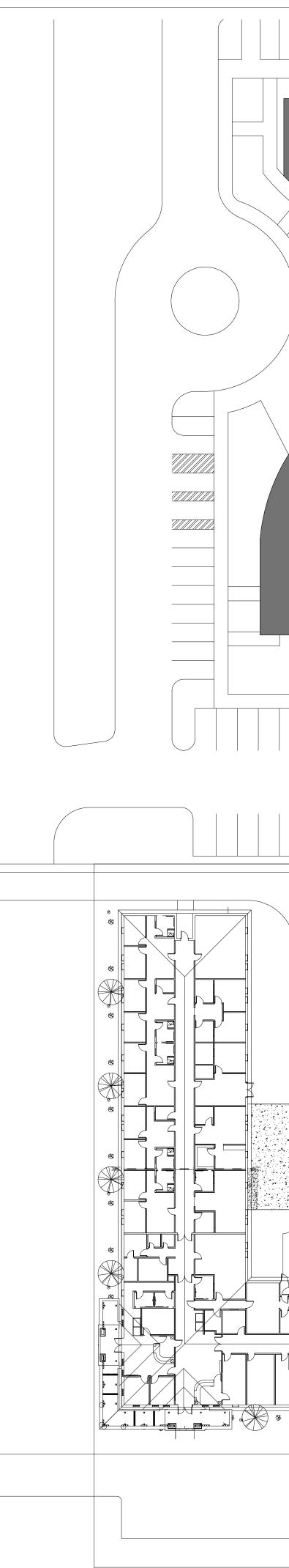
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PROJECT NUMBER 217027





FINALS - 100%



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- OTHERWISE NOTED. VERIFY PRIOR TO BID DATE.
- OWNER, ARCHITECT, OR ENGINEER.
- ELECTRICAL INFORMATION.
- NATIONAL ELECTRICAL CODE.
- BIDS.

- IN ADVANCE.

KEYED NOTES: ELECTRICAL

 $\langle 1 \rangle$ 1-4"C with Pullstring, above the ceiling. Any elbows shall be long RADIUS TYPE. SUPPORT CONDUIT TO EXISTING STRUCTURE. $\left< \frac{2}{2} \right>$ PROVIDE J-BOX. FIELD VERIFY EXACT LOCATION PRIOR TO ANY WORK. 3 STUB UP CONDUIT ALONG WALL. ROUTE CONDUIT UP TO ABOVE CEILING LEVEL. CORE DRILL EXISTING WALL FOR NEW CONDUIT. SEAL OPENING WITH WEATHER PROOF SEALANT. $\langle 4 \rangle$ proposed network equpment location. $\left< 5 \right>$ provide in-grade pull box. Refer to detail. $\left< \frac{6}{6} \right>$ BORE UNDER EXISTING CONCRETE SURFACE FOR NEW CONDUIT.

 $\langle 7 \rangle$ provide 1-4" pvc conduit for communication services equipped with PULLSTRING. $\underbrace{8}_{\text{UTILITIES PRIOR IS RESPONSIBLE TO FIELD VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY WORK. }$

 $\left(9\right)$ BORE UNDER EXISTING PARKING STATION SURFACE FOR NEW CONDUITS.

(10) CONTRACTOR IS RESPONSIBLE TO FIELD IDENTIFY EXISTING COMMUNICATION CONDUIT PRIOR TO ANY WORK. ALL NEW CONDUIT ROUTE WILL BE ADJUSTED PER EXISTING CONDUIT CONDITIONS.

ELECTRICAL OVERALL SITE PLAN SCALE: 1''=30'-0''

GENERAL ELECTRICAL NOTES (TO ALL SHEETS)

A. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING. COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATION.

B. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS

C. CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER.

D. VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC. TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO

E. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR

F. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE

G. VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF

H. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.

I. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.

J. ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT. K. CONTRACTOR IS RESPONSIBLE TO VERIFY AND COORDINATE WITH EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.

L. CONTRACTOR IS RESPONSIBLE CALL DIG-TESS; 1-1800-DIG-TESS 2-BUSINESS DAYS

PROVIDE 2-2"C WITH PULLSTRING FOR COMMUNICATION AND 2-1.5" WITH PULLSTRING FOR POWER.

12 Contractor shall provide bore under existing concrete surface for NEW CONDUITS.



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<u>DATE</u> AUG 17, 2018 FINALS - 100%



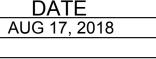


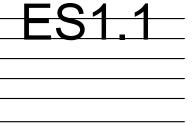
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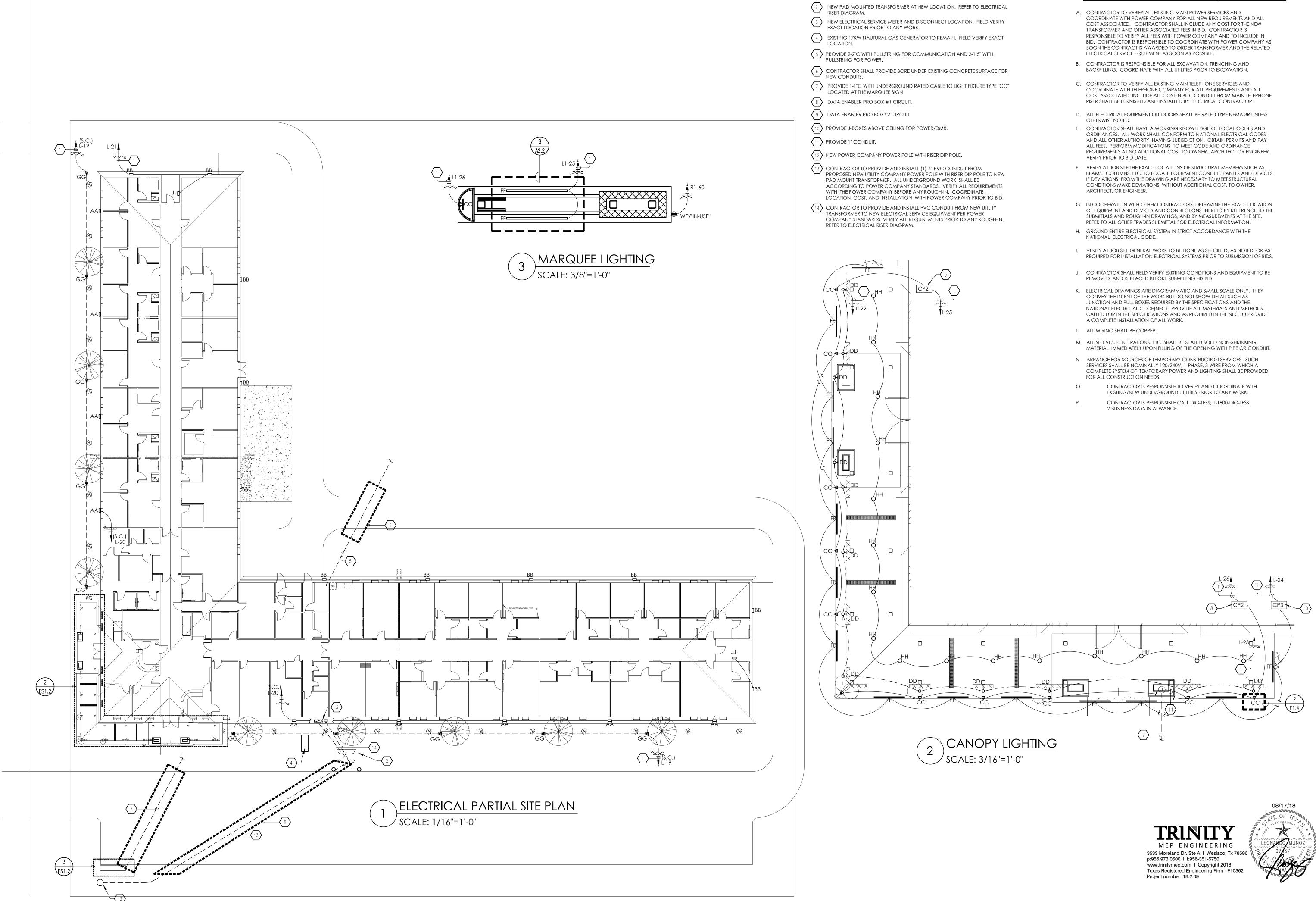
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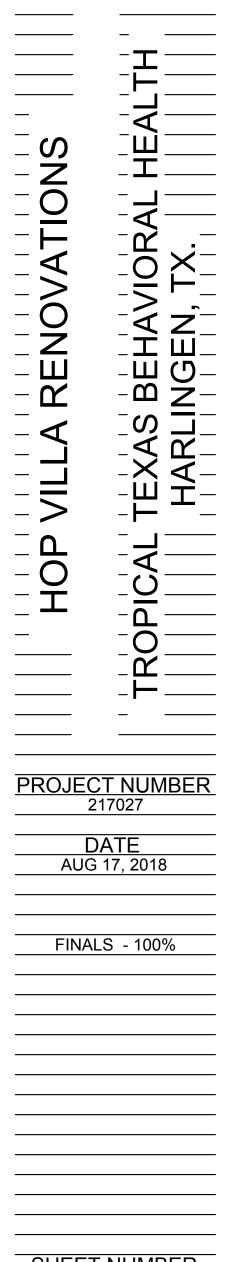
KEYED NOTES: ELECTRICAL

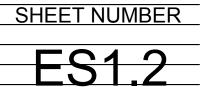
 $\left(1 \right)$ Controlled VIA "LCP".

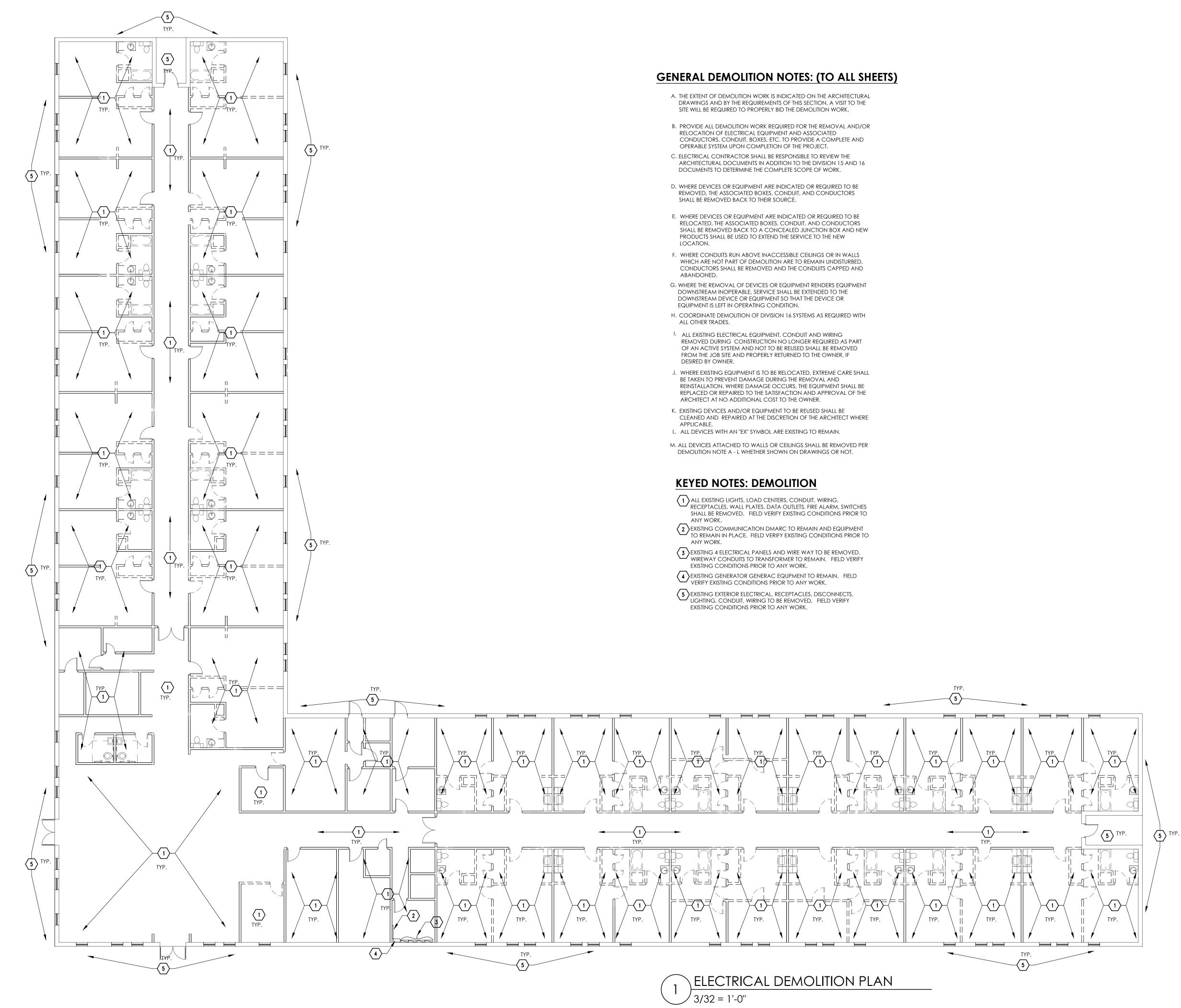
GENERAL ELECTRICAL NOTES (TO ALL SHEETS)



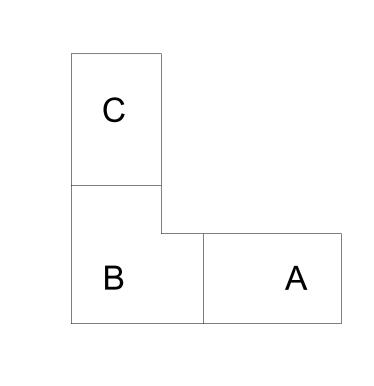
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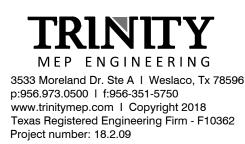




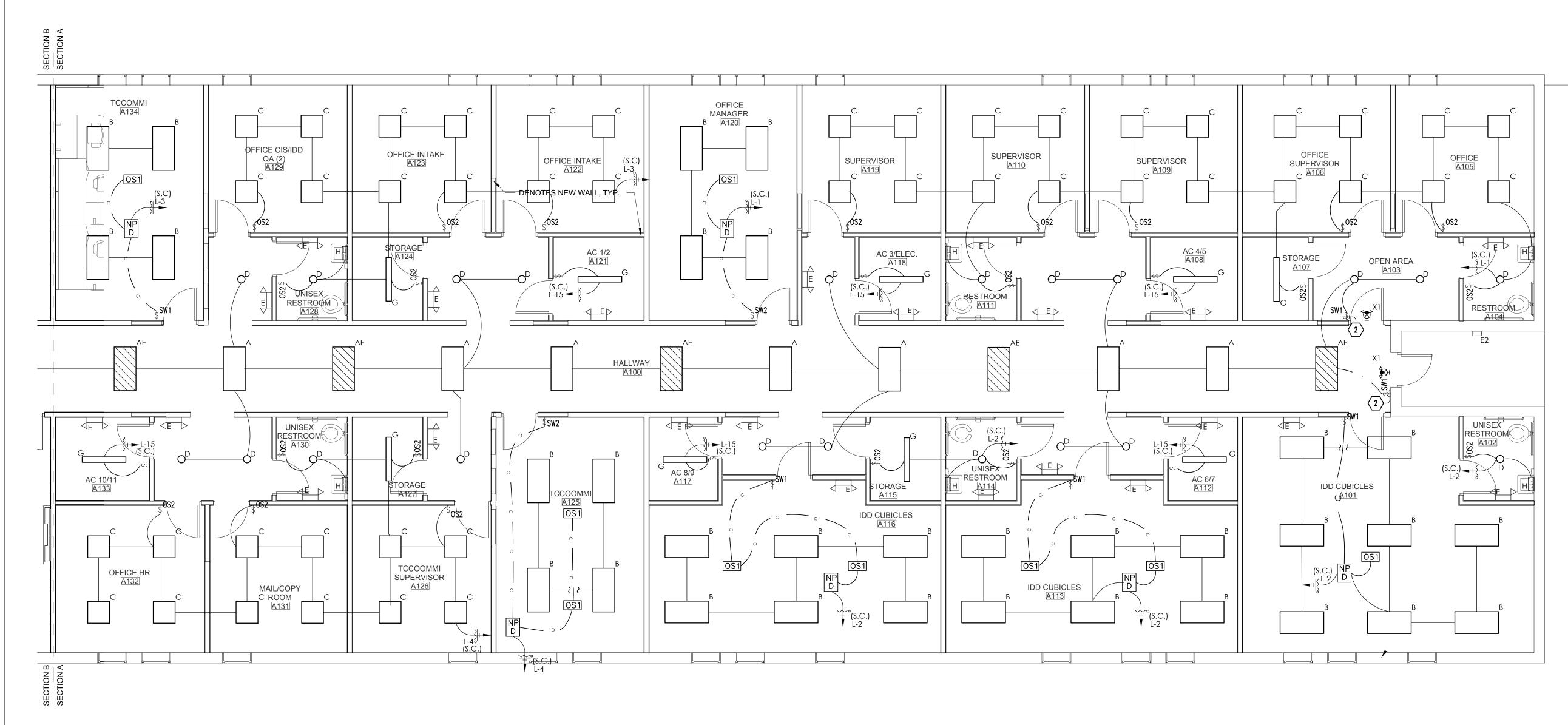


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LIGHTING FLOOR PLAN SECTION A / 3/16 = 1'-0"

GENERAL NOTES: LIGHTING

- A. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "L-17 & L-18". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.
- B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.
- C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.
- D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.
- E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS. F. ALL EXISTING WALLS TO REMAIN. PROVIDE BOXES FOR THE APPLICATION.
- G. RACEWAY IN EXISTING WALLS SHALL BE INSTALLED INSIDE WALL WITHOUT BREAKING THE GYPSUM WALL. INCLUDE ALL COST FOR A COMPLETE ELECTRICAL RACEWAY INSTALLATION.

KEYED NOTES: LIGHTING

 $\left< 1 \right>$ CONTROLLED VIA LCP.

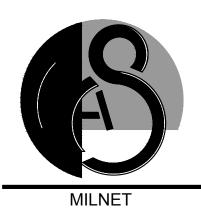
2 DIGITAL SWITCH TO BE INTERLOCKED WITH RELAY PANEL TO ALL HALLWAY LIGHTING.

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GENERAL NOTES: LIGHTING

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- A. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "L-17 & L-18". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.
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- D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.
- E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.
- F. ALL EXISTING WALLS TO REMAIN. PROVIDE BOXES FOR THE APPLICATION.
 G. RACEWAY IN EXISTING WALLS SHALL BE INSTALLED INSIDE WALL WITHOUT BREAKING THE GYPSUM WALL. INCLUDE ALL COST FOR A COMPLETE ELECTRICAL RACEWAY INSTALLATION.

KEYED NOTES: LIGHTING

1 CONTROLLED VIA LCP.

- $\left< 2 \right>$ DIGITAL SWITCH TO BE INTERLOCKED WITH RELAY PANEL TO ALL HALLWAY LIGHTING.
- 3 IPLAYER 3 AND CONTROLLER KEY PAD LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ANY ROUGH-INS.
- $\overline{4}$ DATA ENABLER PRO #1 LOCATED ABOVE CEILING. FIELD COORDINATE EXACT LOCATION.
- $\sqrt{5}$ DATA ENABLER PRO #2 LOCATED ABOVE CEILING. FIELD COORDINATE EXACT LOCATION.
- 6 CONTROLLED VIA LCP2.

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PLAN SECTION B

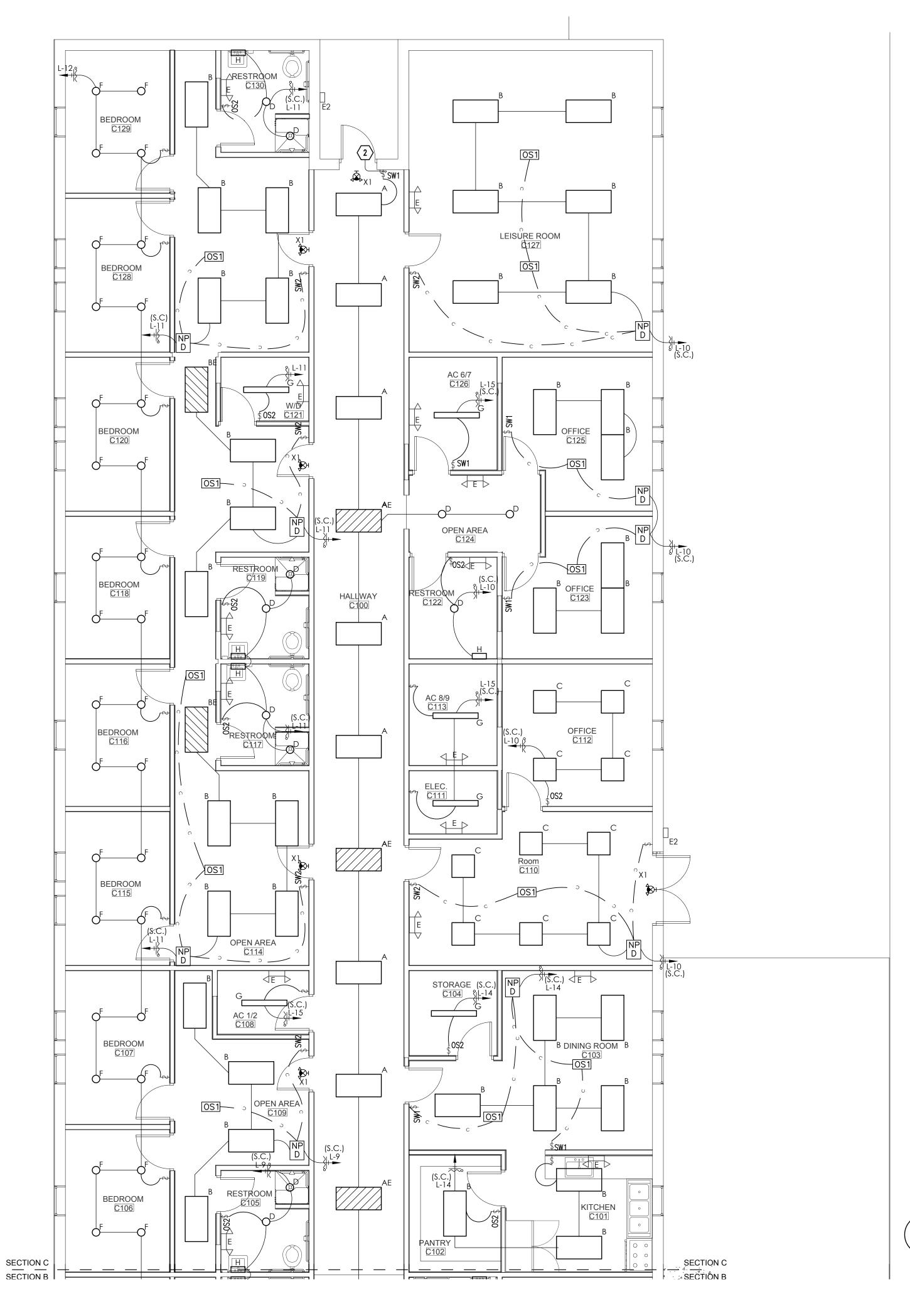




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GENERAL NOTES: LIGHTING

- A. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "L-17 & L-18". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.
- B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.
- C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.
- E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.
- F. ALL EXISTING WALLS TO REMAIN. PROVIDE BOXES FOR THE APPLICATION.
 G. RACEWAY IN EXISTING WALLS SHALL BE INSTALLED INSIDE WALL WITHOUT BREAKING THE GYPSUM WALL. INCLUDE ALL COST FOR A COMPLETE ELECTRICAL RACEWAY INSTALLATION.

KEYED NOTES: LIGHTING

 $\langle 1 \rangle$ CONTROLLED VIA LCP.

 $\langle 2 \rangle$ DIGITAL SWITCH TO BE INTERLOCKED WITH RELAY PANEL TO ALL HALLWAY LIGHTING.

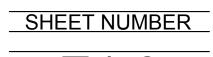
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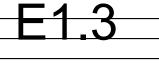


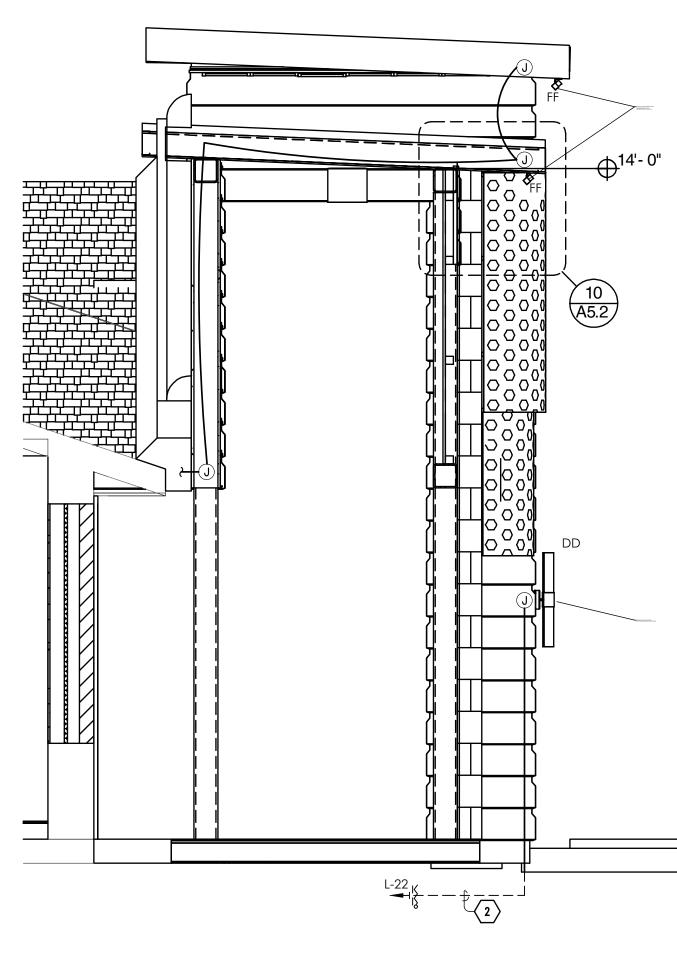




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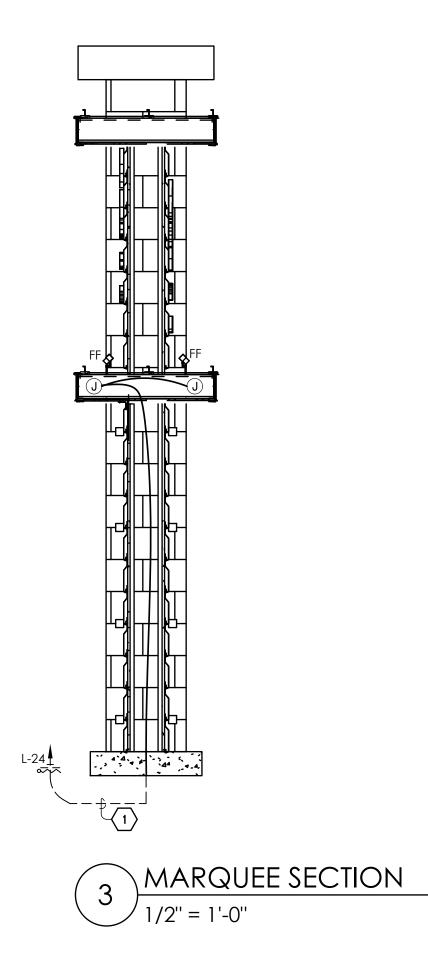


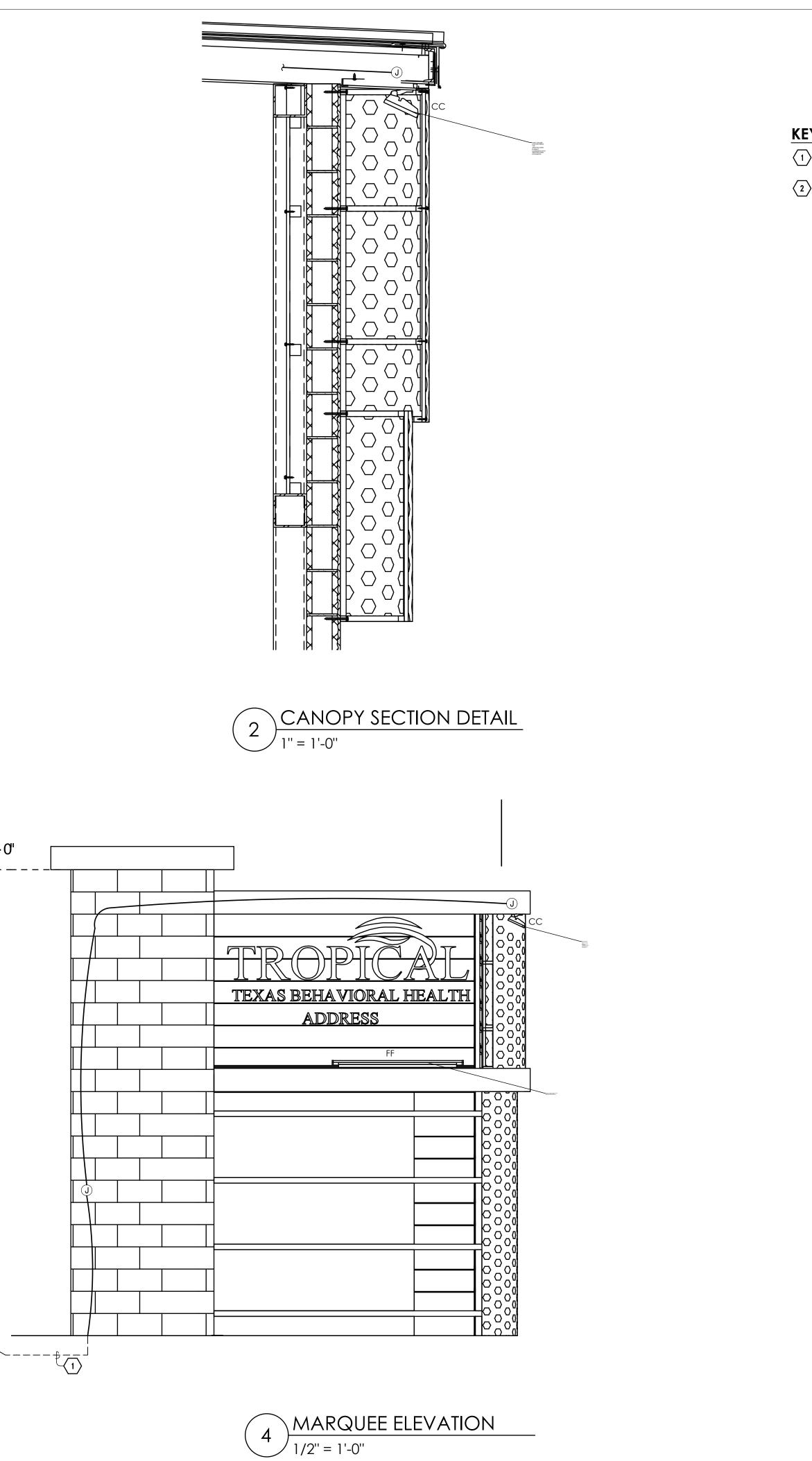




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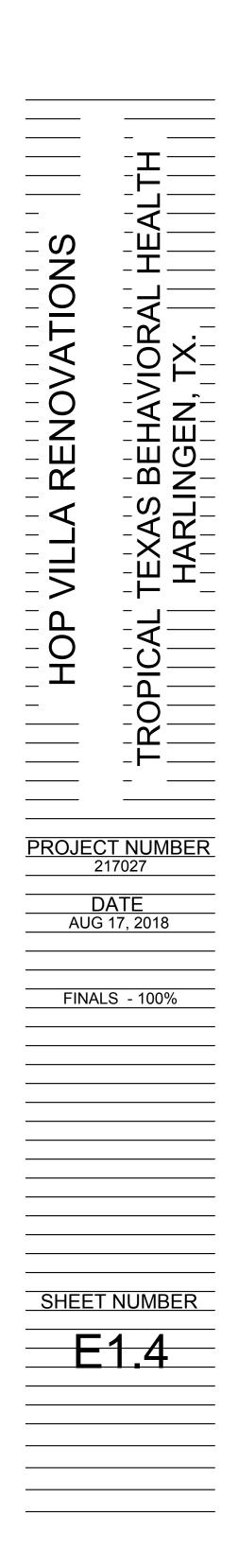




KEYED NOTES: LIGHTING

 PROVIDE 1" CONDUIT WITH UNDERGROUND RATED CONDUCTOR FOR INTERLOCK WITH FIXTURE "CC" LOCATED AT THE CANOPY AREA.
 ROUTE TO PANEL OR THE OTHER "DD" FIXTURES.





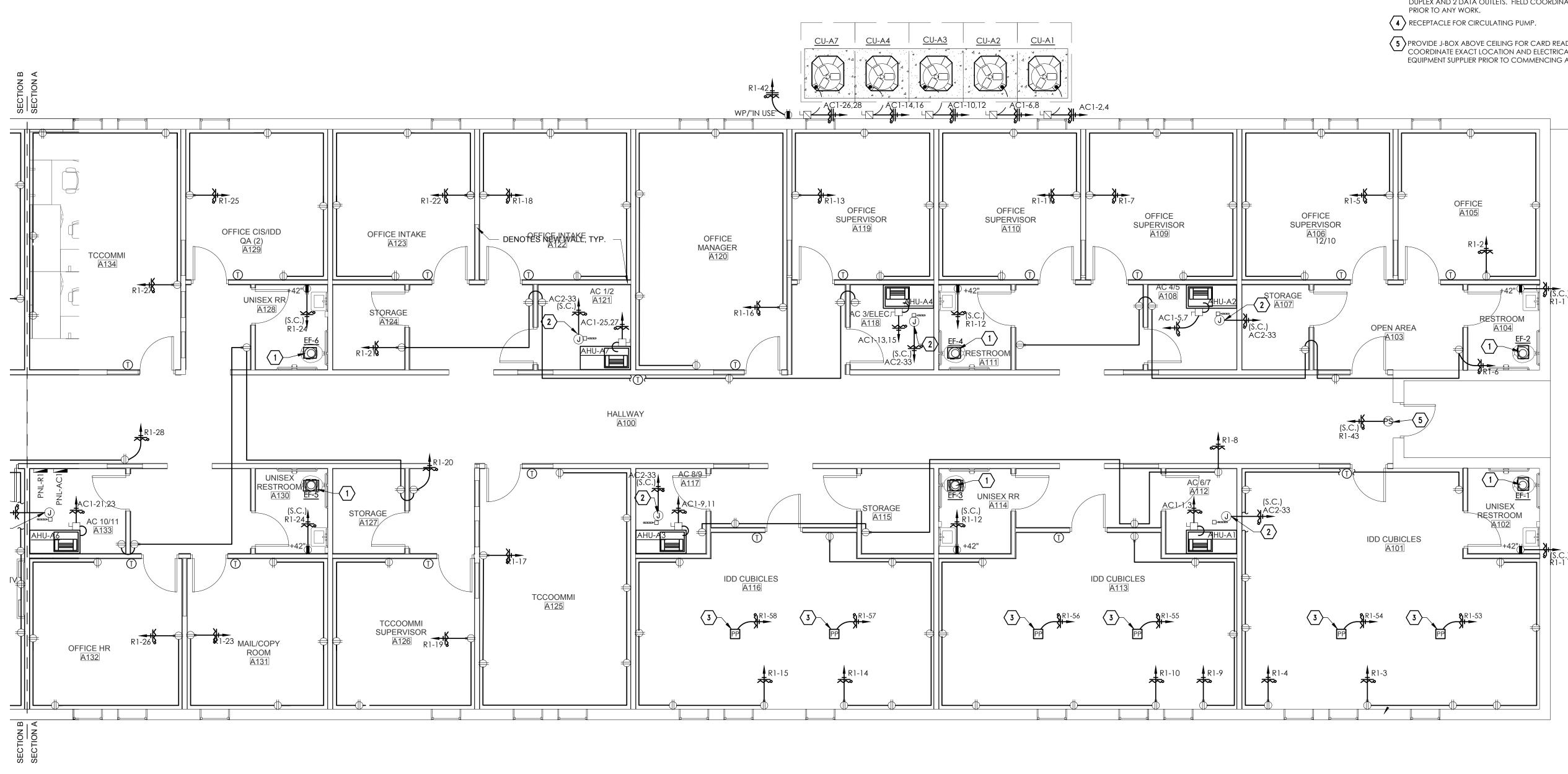
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TRENERING MEP ENGINEERING 3533 Moreland Dr. Ste A I Weslaco, Tx 78596 p:956.973.0500 I f:956-351-5750 www.trinitymep.com I Copyright 2018 Texas Registered Engineering Firm - F10362 Project number: 18.2.09 Α

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GENERAL NOTES: POWER

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE latest code.
- E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.
- H. CONTRACTOR SHALL REFER TO EQUIPMENT SUBMITTAL FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK. I. RACEWAY IN EXISTING WALLS SHALL BE INSTALLED INSIDE WALL WITHOUT BREAKING THE GYPSUM WALL. INCLUDE ALL COST FOR A COMPLETE ELECTRICAL RACEWAY INSTALLATION.

KEYED NOTES: POWER

TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, $1#12G, \frac{1}{2}$ C.

- $\langle 2 \rangle$ provide J-box for motorized hvac damper.
- 3 PROVIDE J-BOX AND POWER POLE. TOWER POLE SHALL BE A 2 TWO COMPARTMENT POLE FOR COMMUNICATION AND POWER MFR. WIREMOLD #AMDTP-412 WITH 2 DUPLEX AND 2 DATA OUTLETS. FIELD COORDINATE EXACT LOCATION WITH OWNER
- 5 PROVIDE J-BOX ABOVE CEILING FOR CARD READER DOOR ACCESS CONTROLS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO COMMENCING ANY WORK.

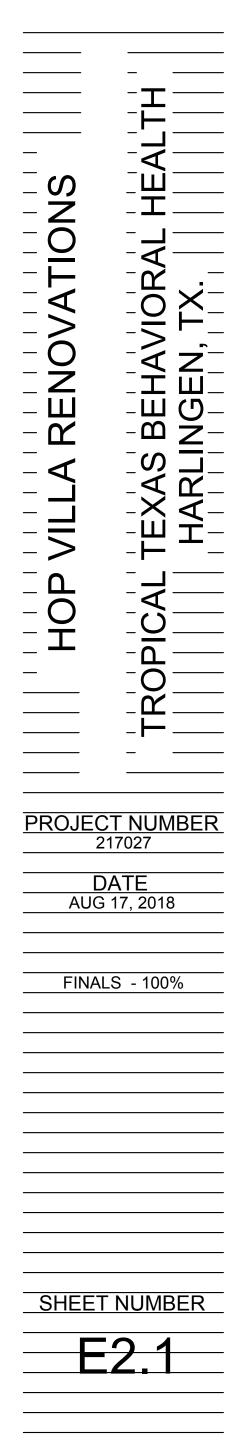
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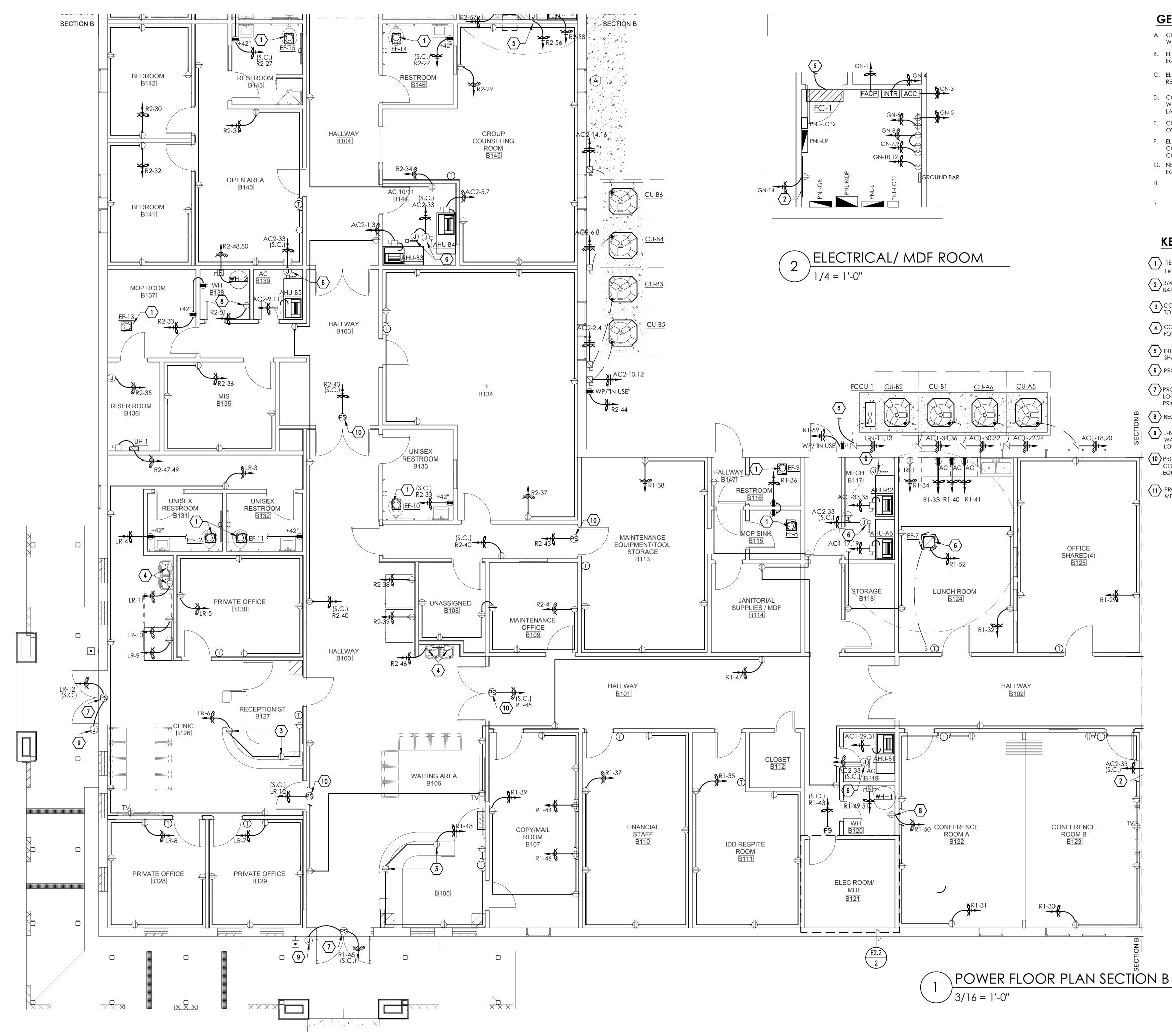






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GENERAL NOTES: POWER

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE latest code.
- E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.
- H. CONTRACTOR SHALL REFER TO EQUIPMENT SUBMITTAL FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
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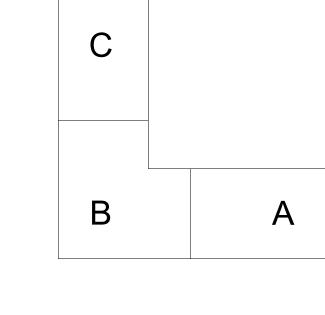
KEYED NOTES: POWER

TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, 1#12G, ¹/₂"C.

2 3/4"X8'HX4'W PLYWOOD TELEPHONE BOARD FINISHED ONE SIDE. PROVIDE GROUND BAR AND TIE INTO ELECTRICAL GROUNDING SYSTEM VIA WIRE #4.

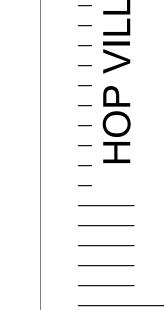
3 COORDINATE EXACT LOCATION WITH MILLWORK CONTRACTOR & OWNER PRIOR TO COMMENCING ANY ROUGH-INS.

- COORDINATE EXACT LOCATION WITH PLUMBER TO CONCEAL CORD BEHIND ELECTRIC DRINKING FOUNTAIN PRIOR TO ANY ROUGH-IN.
- 5 INTERLOCK FCCU WITH FC-1 H.V.A.C. EQUIPMENT. WIRING SHALL BE 3#10, 1#10G, 3/4"C.
- $\left< \mathbf{6} \right>$ provide J-box for motorized hvac damper.
- $\langle 7 \rangle$ PROVIDE J-BOX ABOVE CEILING FOR ELECTRIC DOOR OPENER. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO COMMENCING ANY WORK.
- $\langle 8 \rangle$ RECEPTACLE FOR CIRCULATING PUMP.
- $\langle 9 \rangle$ J-box for electric door access button. Conduit shall be conceal in WALL, REFER TO ARCHITECTURAL FOR PARTIAL INTERIOR WALL TO BE ACCESSIBLE. LOCATION SHALL COMPLY WITH ADA REQUIREMENTS.
- 10 PROVIDE J-BOX ABOVE CEILING FOR CARD READER DOOR ACCESS CONTROLS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO COMMENCING ANY WORK.
- PROVIDE A 120V, 20 AMP SPRING WOUND AUTO-OFF WALL TIMER SWITCH, EQUAL TO MFR. INTERMATIC # FF60MHC





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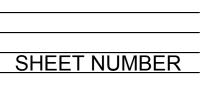
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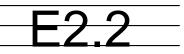
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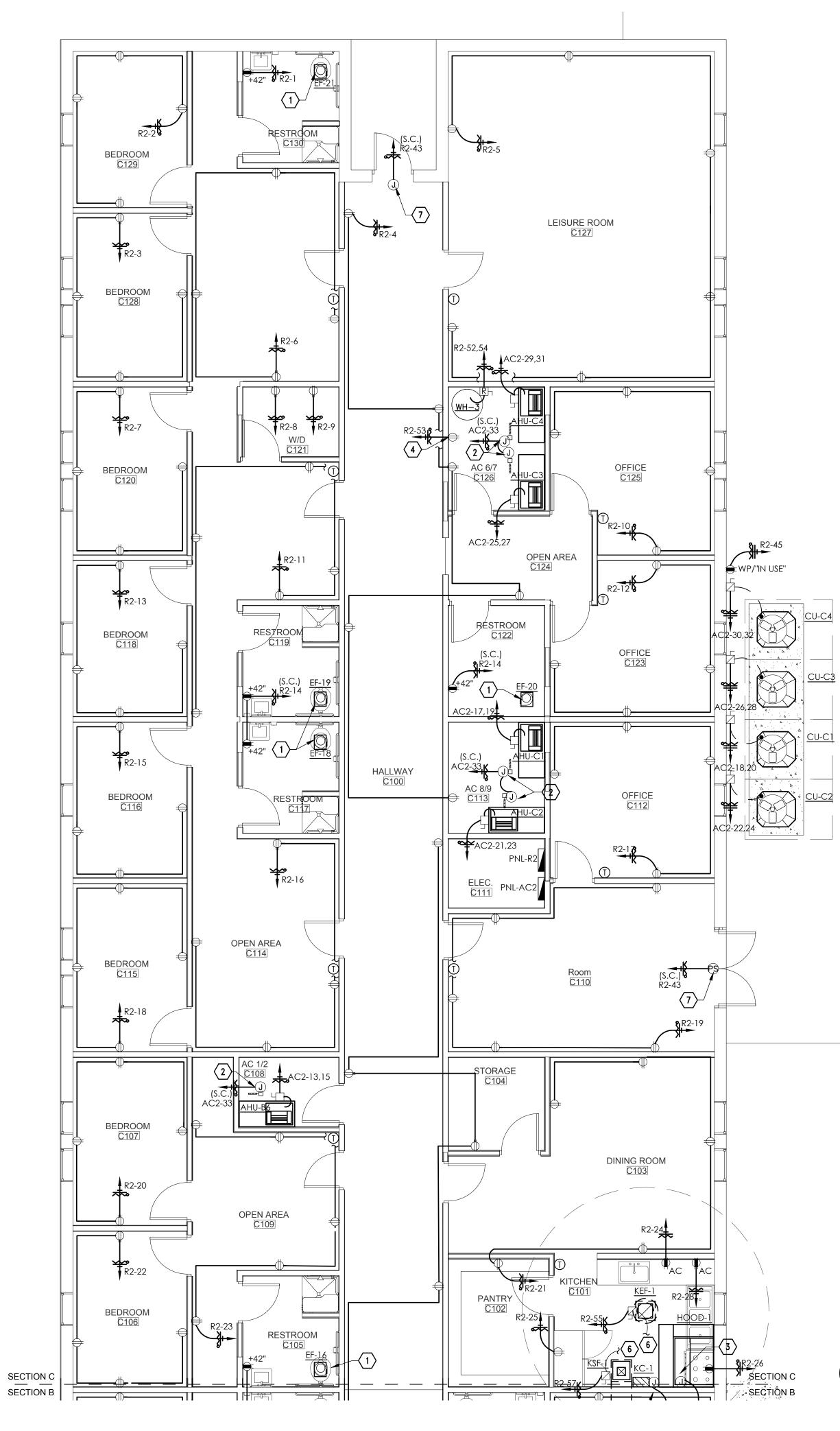
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GENERAL NOTES: POWER

- latest code.
- OWNER.
- CONTRACTOR.

- BUILDING FIRE ALARM SYSTEM. $\langle 4 \rangle$ RECEPTACLE FOR CIRCULATING PUMP.

POWER FLOOR PLAN SECTION C / 3/16 = 1'-0"

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.

B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.

D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE

E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH

F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL

G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID. H. CONTRACTOR SHALL REFER TO EQUIPMENT SUBMITTAL FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK. I. RACEWAY IN EXISTING WALLS SHALL BE INSTALLED INSIDE WALL WITHOUT

BREAKING THE GYPSUM WALL. INCLUDE ALL COST FOR A COMPLETE ELECTRICAL RACEWAY INSTALLATION.

KEYED NOTES: POWER

TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, $1#12G, \frac{1}{2}$ "C.

 $\langle 2 \rangle$ provide J-box for motorized hvac damper.

3 J-BOX FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM. COORDINATE EXACT LOCATION AND ALL REQUIRED ELECTRICAL CONNECTIONS. INTERLOCK WITH

5 PROVIDE J-BOX FOR KITCHEN VENTILATION CONTROL PANEL SYSTEM TO CONTROL LIGHTS AND EXHAUST FANS. REFER TO MANUFACTURERS INSTALLATION DOCUMENTS & COORDINATE W/MECHANICAL DOCUMENTS & CONTRACTOR. 6 ROUTE TO KITCHEN VENTILATION CONTROL PANEL SYSTEM. COORDINATE WITH EQUIPMENT SUPPLIER AND MECHANICAL DOCUMENTS PRIOR TO COMMENCING ANY

WORK. REFER TO MECHANICAL DOCUMENTS FOR WIRING DIAGRAMS AND DETAILS. PROVIDE J-BOX ABOVE CEILING FOR CARD READER DOOR ACCESS CONTROLS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH OWNER AND

EQUIPMENT SUPPLIER PRIOR TO COMMENCING ANY WORK.



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GENERAL NOTES: SPECIAL SYSTEMS

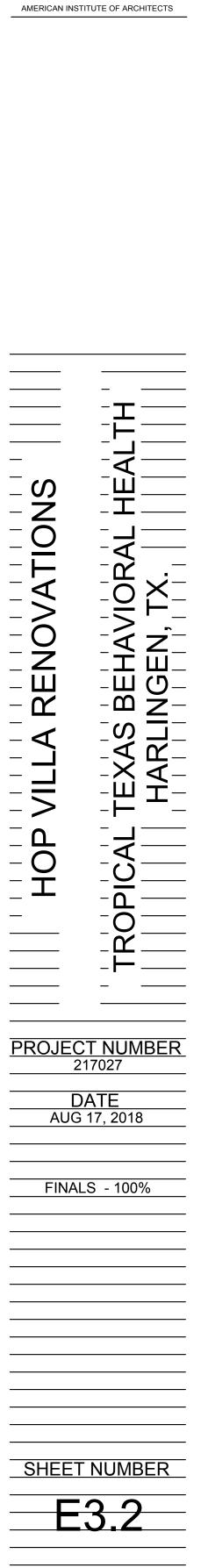
- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. PROVIDE CLEAR VANDAL COVER WITH ARCHITECTURAL MILLWORK.
- STATIONS. C. EQUIPMENT AS FURNISHED OF A SINGLE MANUFACTURER.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE MECHANICAL DRAWINGS.
- E. ALL CONDUITS SHALL REAMED AND COMPLETED WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.F. ALL DEVICES SHOWN ON DRAWINGS ARE SYMBOLIC ONLY. THE ENTIRE FIRE ALARM
- SYSTEM, SHALL BE IN FULL COMPLIANCE AND MEET ALL CODES AND REQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY. ANY MODIFICATIONS REQUIRED TO PROVIDE COMPLIANCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ ENGINEER.
- G. ALL SPECIAL SYSTEM CONDUITS SHALL BE STUBBED UP ABOVE THE CEILING LEVEL. IF CABLE TRAY IS PRESENT, STUBBED CONDUITS TO CABLE TRAY.
- H. CABLE TRAY SHALL BE USED ONLY FOR DATA WIRING, FIRE ALARM, INTRUSION, ACCESS CONTROL AND OTHER LOW VOLTAGE SYSTEMS TO USE J-HOOKS AT EVERY 10'. ALL LINE VOLTAGE WIRING SHALL BE ON CONDUIT AS INDICATED ON SPECIFICATIONS.

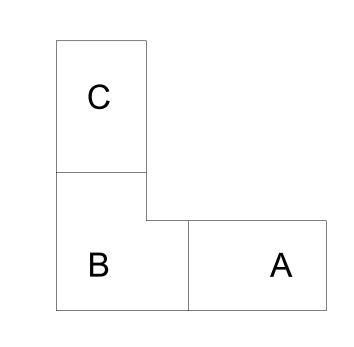
KEYED NOTES: SPECIAL SYSTEMS

- PROVIDE CABLE TRAY AS SHOWN ABOVE THE CEILING. REFER TO SPECIFICATION. SUPPORT FROM STRUCTURE.
- 2 COORDINATE EXACT LOCATION WITH MILLWORK CONTRACTOR & OWNER PRIOR TO COMMENCING ANY ROUGH-INS.



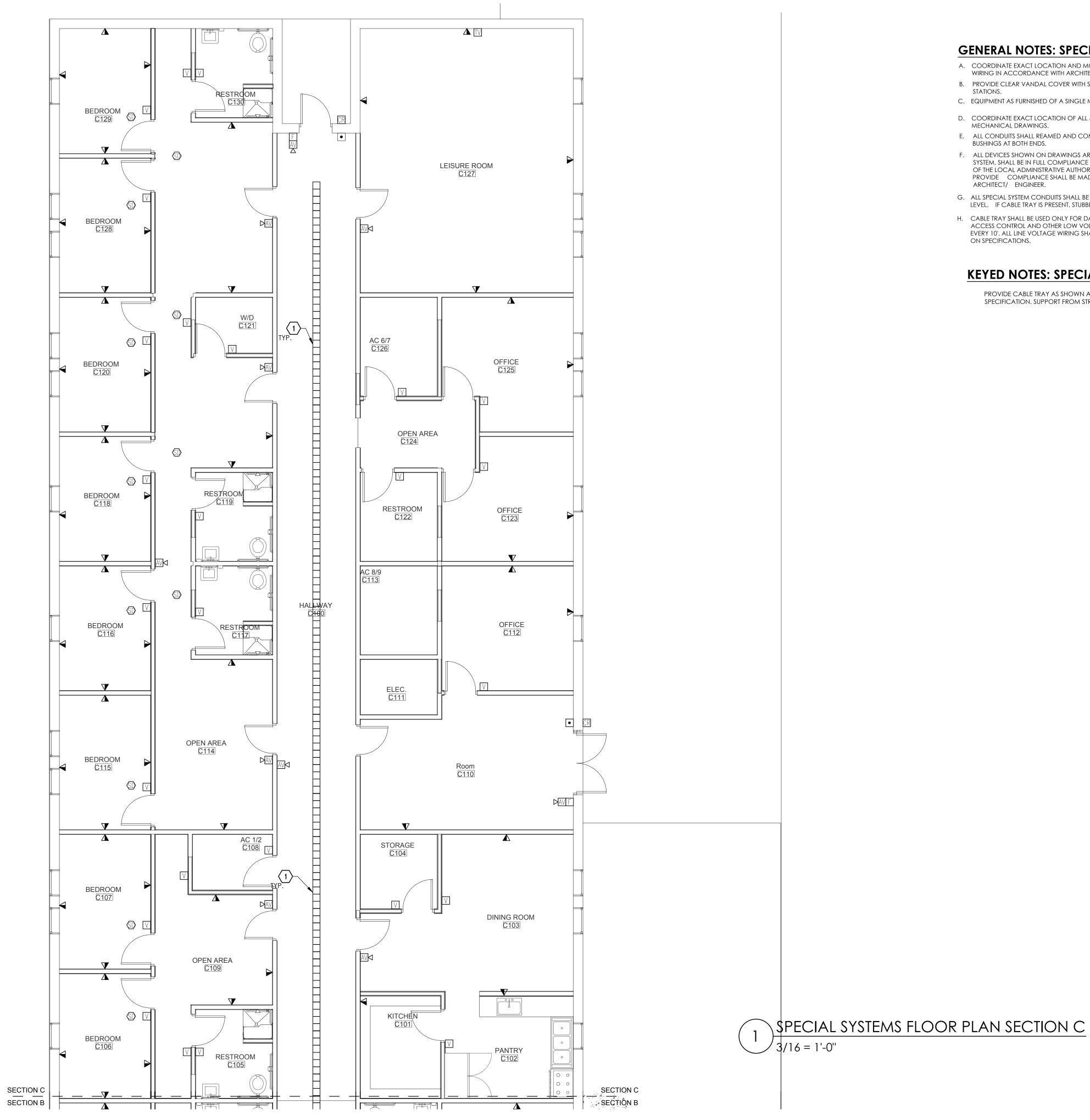
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GENERAL NOTES: SPECIAL SYSTEMS

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK. B. PROVIDE CLEAR VANDAL COVER WITH STOPPER II OPTION FOR ALL FIRE ALARM PULL

C. EQUIPMENT AS FURNISHED OF A SINGLE MANUFACTURER.

D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE E. ALL CONDUITS SHALL REAMED AND COMPLETED WITH CONNECTORS AND INSULATED

F. ALL DEVICES SHOWN ON DRAWINGS ARE SYMBOLIC ONLY. THE ENTIRE FIRE ALARM SYSTEM, SHALL BE IN FULL COMPLIANCE AND MEET ALL CODES AND REQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY. ANY MODIFICATIONS REQUIRED TO PROVIDE COMPLIANCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR

G. ALL SPECIAL SYSTEM CONDUITS SHALL BE STUBBED UP ABOVE THE CEILING LEVEL. IF CABLE TRAY IS PRESENT, STUBBED CONDUITS TO CABLE TRAY.

H. CABLE TRAY SHALL BE USED ONLY FOR DATA WIRING, FIRE ALARM, INTRUSION, ACCESS CONTROL AND OTHER LOW VOLTAGE SYSTEMS TO USE J-HOOKS AT EVERY 10'. ALL LINE VOLTAGE WIRING SHALL BE ON CONDUIT AS INDICATED

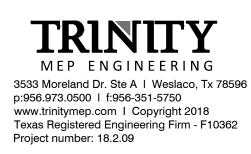
KEYED NOTES: SPECIAL SYSTEMS

PROVIDE CABLE TRAY AS SHOWN ABOVE THE CEILING. REFER TO SPECIFICATION. SUPPORT FROM STRUCTURE.



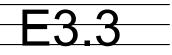
AMERICAN INSTITUTE OF ARCHITECTS

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HOP VILLA RENOVATIONS	TROPICAL TEXAS BEHAVIORAL HEALTH HARLINGEN, TX.
PROJEC	T NUMBER 17027
D AUG	ATE 17, 2018
FINAI	_S - 100%



ELECTRICAL LEGEND-LIGHTING

Symbol	DESCRIPTION
	2'x4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X4' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDU
	2'x2' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X2' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDU
	1'X4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	TRACK LIGHT WITH HEADS AS INDICATED
	INCANDESCENT, LED, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE CEILING MTD, REFER TO LUMINAIRE SCHEDULE
ОЮ	INCANDESCENT, LED, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD, REFER TO LUMINAIRE SCHEDULE
\oslash $H \oslash$	LED, FLUORESCENT, OR HID FIXTURE WITH EMERGENCY BATTERY PACK. CLG. OR WALL MTD, REFER TO LUMINAIRE SCHEDULE
- <u>0</u> <u>+</u>	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED REFER TO LUMINAIRE SCHEDULE
	EXIT LIGHT SAME AS ABOVE, EXCEPT WITH AN EMERGENCY UNIT AS A COMBO, REFER TO LUMINAIRE SCHEDULE
\times	CEILING FAN
	STRIP UTILITY LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
⊬ ∕-∕0∕-∕ I	STRIP UTILITY STRIP LIGHT WITH EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
\$	WALL SWITCH SPST, 20A, 120/277V
\$2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V
\$3	3-WAY WALL SWITCH, 20A,120/277V
\$4	4-WAY WALL SWITCH, 20A,120/277V
\$D	WALL DIMMER SWITCH
^{\$} Р	WALL SWITCH SPST, 20A, 120/277V - PILOT LIGHT SWITCH
\$ X \$ K	WALL SWITCH SPST, 20A,120/277V - KEYED SWITCH, X = 3 OR 4 WAY

LLLCINICAL LLGLIND-31 LCIAL 3131LIVI3

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.

	ESHOWN MAY NOT APPEAR IN ALL DRAWINGS. ESHOWN SCHEMATIC AND MAY NOT BE TO SCALE.			
		I I I I I		
<u>symbol</u>	DESCRIPTION			
V	WALL MOUNTED TELEPHONE/DATA OUTLET. FURNISH AND 1.25"C., WITH PULLSTRING AND INSULATED BUSHING, STUBE +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8	ED ABOVE CEILING.		
▼	WALL MOUNTED TELEPHONE OUTLET. FURNISH AND INSTAL , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABO +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8	OVE CEILING.		
\bigtriangledown	WALL MOUNTED DATA OUTLET. FURNISH AND INSTALL 1.25 , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABC +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8	OVE CEILING.		
₽ ▼	PUBLIC TELEPHONE OUTLET.: J-BOX & 1"C			
	TELEVISION OUTLET. CLG. OR WALL MOUNTED - STUB 1" C. ABOVE CEILING FROM OUTLET BOX			
$\vdash \bullet$	PUSHBUTTON WALL MOUNTED.			
av	AUDIO VIDEO DROP, REFER TO DETAIL			
	INTERCOM - CALL SWITCH- JBOX WITH 3/4"C			
S	INTERCOM/PAGING LAY-IN SPEAKER			
	PA EXTERIOR SPEAKER 10'-6" AFF			
DC	SECURITY DOOR CONTACT SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX			
MD	SECURITY MOTION DETECTOR SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX			
G	SECURITY GLASS BREAK SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX			
KP	SECURITY KEY PAD - STUB 3/4"C ABOVE CEILING FROM OUTLET BOX			
SEC	SECURITY PANEL JUNCTION BOX	54''		
ACC	ACCESS CONTROL PANEL JUNCTION BOX - BY OTHERS	54"		
CR	CARD READER BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS			
ML	MAGNETIC LOCK BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS			
Sd	INTRUSION EXTERIOR SPEAKER	10'-6" AFF		
©	SINGLE SIDED CLOCK, J-BOX W/3/4"C 96" AFF MIN.			
Сн	DOUBLE SIDED CLOCK, J-BOX W/3/4"C	96" AFF MIN.		
	CAMERA J-BOX W/ 3/4" CONDUIT			
—	TELEPHONE BOARD- 3/4"x8' FIRE RATED			
r	J-BOX FOR ACCESS CONTROL POWER SUPPLY POWER SUPPLY BY ACCESS CONTROL CONTRACTORL	ABV CLG.		

	CAL LEGEND-FIRE ALARM	ABBV	<u>DESCRIPTION</u>	<u>ABBV:</u>	DESCRIPTION
	IOWN MAY NOT APPEAR IN ALL DRAWINGS. DWN SCHEMATIC AND MAY NOT BE TO SCALE.	AFF	ABOVE FINISHED FLOOR	MFR. (S.C.)	MANUFACTURER SHARE CIRCUIT
Symbol		BFC C	BELOW FINISHED CEILING CONDUIT	QRCPT(S)	QUAD RECEPTACLE(S)
· · · · · ·		СВ	CIRCUIT BREAKER	rcpt(s) crcpt(s)	DUPLEX RECEPTACLE(S)
	FIRE ALARM PULL STATION: STUB 3/4"C ABOVE CEILING FROM J-BOX	EC		QCRCPT(S)	QUAD I.G. RECEPTACLE(S)
	FIRE ALARM AUDIBLE/VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX FIRE ALARM VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX	EX F	EXISTING FUSE	pnl so (s.o.)	PANEL SPACE ONLY
	FIRE ALARM VISUAL SIGNAL: STUB 3/4 C ABOVE CEILING FROM J-BOX	G	GROUND (EQUIPMENT)	SP	SPARE
VS	FIRE ALARM CEILING WALL MOUNT OUTDOOR SPEAKER STROBE, UL LISTED, :	GFI	GROUND FAULT INTERRUPTER	0. (0)	SHUNT TRIP
SD HSD	J-BOX WITH 3/4"C FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C	MTD NF	NONFUSED	SW UF	switch underfloor
	ABOVE CEILING FROM J-BOX HEAT DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING	NIC H.D	NOT IN CONTRACT HEAVY DUTY	UG	UNDERGROUND
_	FROM J-BOX DUCT SMOKE DETECTOR: STUB 3/4"C ABOVE CEILING FROM J-BOX	NL AC	NIGHT LIGHT ABOVE COUNTER	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
_	SMOKE DETECTOR WITH AN AUDIBLE BASE: STUB 3/4"C ABOVE CEILING	HT.	HEIGHT	WG WP	WIRE GUARD WEATHERPROOF
	FROM J-BOX FIRE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MTD UNO, INCLUDE	MTD. FDR.	MOUNTING FEEDER	XFMR	TRANSFORMER
	A FIRE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MID UNO, INCLUDE A FIRE DOCUMENT BOX EQUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11.	CKT.	CIRCUIT	MB	MAIN BREAKER
FACP-EVS	FIRE ALARM CONTROL PANEL WITH EMERGENCY VOICE SYSTEM, ADDRESSABLE, FLUSH MTD UNO, INCLUDE A FIRE DOCUMENT BOX	LTG. LC	LIGHTING LIGHTING CONTACTOR	MLO RMC	MAIN LUGS ONLY RIGID METAL CONDUIT
	EQUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11. FIRE ALARM EMERGENCY VOICE EVACUATION SYSTEM, FLUSH OR	IG	ISOLATED GROUND	RNC	RIGID NONMETALLIC CONDUIT
	SURFACE. FIRE ALARM REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED UNO	EA. N1 N3R	EACH NEMA-1 NEMA-3R	EMT	ELECTRICAL METALLIC TUBING CONDUIT
	POWER SUPPLY, DEDICATED 110V	N4X SS	NEMA-3R NEMA-4X STAINLESS STEEL	s/n ac	SOLID NEUTRAL ABOVE COUNTER
	DOOR HOLDER DEVICE: STUB 3/4"C ABOVE CEILING FROM J-BOX			AHJ T	AHUTHORITY HAVING JURISDICTION
	TAMPER SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX	<u>NO</u>	<u>TES:</u> 48" AFF INDICATES TO TOP OF I		TAMPER PROOF
	FLOW SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX FIRE ALARM OUTDOOR SPEAKER, WEATHER PROOF: STUB 3/4"C ABOVE CEILING FROM J-BOX	,	ALL OTHER MOUNTING HEIGHT AC INDICATES 6" ABOVE COU	1 OF DEVICE; IS REFER TO CEN	
FI FCTR	ICAL LEGEND-GENERAL				
ALL SYMBOLS SH	IOWN MAY NOT APPEAR IN ALL DRAWINGS. DWN SCHEMATIC AND MAY NOT BE TO SCALE.				
		ALL	WIRING SYMBOLS SHOWN MAY NOT APPEA	_	
Symbol	DESCRIPTION	SYMBC	DLS ARE SHOWN SCHEMATIC AND N	MAY NOT BE TO SC	CALE.
	HEAVY DUTY DISCONNECT SWITCH FUSED	\bigcirc	SINGLE RECEPTACLE - 20 DUPLEX RECEPTACLE - 20		
	HEAVY DUTY DISCONNECT SWITCH NONFUSED	Ф Фт	DUPLEX RECEPTACLE TA		
	HEAVY DUTY COMBINATION DISCONNECT/MOTOR STARTER	¥	NEMA 5-20R		GFI - 20A/125V/2P/3W/G
\boxtimes	HEAVY DUTY MOTOR STARTER	H⊕/⊕ I	NEMA 5-20R		
	ENCLOSED BREAKER, RE: TO SCH. FOR MORE INFO.		DUPLEX RCPT. GFI - 20A/		
\$ M	ROTARY TYPE DISCONNECT SWITCH 120/277-208/480V,20AMP, MOTOR RATED SWITCH, NEMA-1 (INTERIOR)	₩P, "IN-I	/ DUPLEX RCPT.,WEATHER USE" "IN-USE" WEATHER PROC NEMA 5-20R WP/"IN-USE METALLIC SERIES SINGLE	OF STEEL ENCLOS E'' SHALL BE EQUA	SURE- 20A/125V/2P/3W/G AL TO MFR. CARLON,
	ENCLOSURE, NEMA-3R(EXTERIOR) ENCLOSURE. VOLTAGE TO BE SELECTED PER EQUIPMENT CIRCUIT REQUIREMENTS.		DOUBLE GANG, VERTIC	CAL MOUNT #MES	
\wedge	MOTOR	\oplus	QUADRAPLEX RECEPTAC	CLE	
	PANELBOARD, CLEARANCE AS PER LATEST NEC SWITCH LEG		ISOLATED GROUND QUA	ADPLEX RECEPTA	CLE
	ELECTRICAL CONDUIT	•	ISOLATED GROUND DUP	'LEX RECEPTACLE	E - 20A/125V NEMA 5-20R
	UNDERGROUND ELECTRICAL CONDUIT	\oplus	208V RECEPTACLE, VERIF	FY NEMA NO. WI	ITH EQUIPMENT SUPPLIER
	COMMUNICATION CONDUIT AND WIRING	\bigotimes	SPECIAL PURPOSE RECEP	PTACLE (NEMA N	NO. AS INDICATED)
X, X, X	MULTI-POLE DEVICE CIRCUIT NUMBERS	HD	J-BOX - AIR HAND DRYER PROVIDED BY DIVISION 1		
X/X/X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS			AWINGS (MIN. OP	RICK. (COLOR WHITE) NE PER LAV. COMPLETE W/
8 A-1	CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES	\odot		, 'ED BOX, 2-DUPL	LEX RECEPTACLE(INCLUDE
	OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.		RECEPTACLE WITH COVE	BOX = MFRHUB	BBELL
A-1	UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE			STEEL RECESSED	ER)-(2)FBMPDUP-FBMP6KS FLOOR BOX-VERIFY FLOOR DATA OUTLETS.
	PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION	€G ©		ED BOX, 2-DUPL	LEX RECEPTACLE(INCLUDE
#	INDICATES PANEL AND BREAKER. — DETAIL NUMBER		MOUNTED UNO FLOOR B	BOX = MFRHUB	BBELL
#	- SHEET NUMBER	1	-CFBHB2(MULTISERVICE S	STEEL RECESSED	COVER)-(3)FBMPDUP-FBMP6KS FLOOR BOX-VERIFY FLOOR
$\overline{\mathbb{O}}$	THERMOSTAT WALL MOUNTED - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX. COORDINATE EXACT LOCATION AND HEIGHT WITH MECHANCIAL DIVISION.	●6P	FINISH PRIOR TO ORDER S 6" FIRE RATED POKE-TRHC RECEPTACLE WITH COVE	DUGHS BOX, 2-D	DUPLEX RECEPTACLE(INCLUDE
U ⊢U Dq	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED MINIMUM OF 4" SQUARE		MODEL#\$1R6PTFIT-\$1R6\$F	PE-S1R6SPL-S1R6 RALU(COVER) - `	6SPH(50/50 DEVICE PLATE VERIFY FLOOR FINISH PRIOR
	PHOTO CELL(MFR.INTERMATIC #K4136M) LIGHTING CONTACTOR, NEMA-1, W/H.O.A. SWITCH				RNITURE FEED,- MFRHUBBELL ER) -VERIFY FLOOR FINISH
TC	TIME CLOCK (MFR.TORK#7202Z)		PRIOR TO ORDER.		DUPLEX RECEPTACLE(INCLUDE
CP-1		●8P ⑦	RECEPTACLE WITH COVE	R PLATE)- MFR	
(∭\$ ◄━━	 ELECTRICAL DEVICE AS SHOWN ON PLANS SURFACE MOUNT RACEWAY. SURFACE MOUNT RACEWAY SHALL BE WIREMOLD #V700 SERIES. PROVIDE ALL RELATED #V700 SERIES ACCESSORIES FOR AN OPERABLE 			R8CVRALU(CO	VER) - VERIFY FLOOR FINISH
	SYSTEM. MOUNTING HEIGH	DFT	AIL NOTE: VERIFY WITH A	ARCHITECTURAL F	For ada requirements .
		1 1 1	· · · · · · · · ·	1 1 1 1	
CE		CEILING PTACLE)	CEILING
, RECEP		OUTLET HONE OULET	12" MAX. AND 6" MIN.	WALL N	10UNTED SMOKE DETECTOR
/			%	<i>"</i>	

RIC	AL LEGEND-FIRE ALARM	<u>ELEC</u> ABBV	RICAL ABBREVIATION	<u>NS:</u> ABBV:	DESCRIPTION
	WN MAY NOT APPEAR IN ALL DRAWINGS.	AFF	ABOVE FINISHED FLOOR	MFR.	MANUFACTURER
ARE SHOW		BFC	BELOW FINISHED CEILING	(S.C.) QRCPT(S)	SHARE CIRCUIT QUAD RECEPTACLE(S)
<u>)</u>	DESCRIPTION	С		RCPT(S)	DUPLEX RECEPTACLE(S)
, , FIF	RE ALARM PULL STATION: STUB 3/4"C ABOVE CEILING FROM J-BOX	CB EC	CIRCUIT BREAKER EMPTY CONDUIT	CRCPT(S)	I.G. RECEPTACLE(S)
	RE ALARM AUDIBLE/VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM	EX	EXISTING	QCRCPT(S) PNL	QUAD I.G. RECEPTACLE(S) PANEL
	BOX RE ALARM VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX	F	FUSE	SO (S.O.)	SPACE ONLY
	RE ALARM CEILING MOUNT SPEAKER STROBE, UL LISTED, : J-BOX WITH 3/4"C	G	GROUND (EQUIPMENT)	SP	SPARE
	RE ALARM CEILING WALL MOUNT OUTDOOR SPEAKER STROBE, UL LISTED, :	GFI	GROUND FAULT INTERRUPTER	ST (S.T.)	SHUNT TRIP
	30X WITH 3/4"C RE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C	MTD NF	NONFUSED	SW	SWITCH
A	BOVE CEILING FROM J-BOX EAT DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING	NIC		UF UG	UNDERFLOOR UNDERGROUND
FR	OM J-BOX	H.D NL	HEAVY DUTY NIGHT LIGHT		UNLESS NOTED OTHERWISE
DI	JCT SMOKE DETECTOR: STUB 3/4"C ABOVE CEILING FROM J-BOX	AC	ABOVE COUNTER	WG	WIRE GUARD
	NOKE DETECTOR WITH AN AUDIBLE BASE: STUB 3/4"C ABOVE CEILING OM J-BOX	HT. MTD.	HEIGHT MOUNTING	WP	WEATHERPROOF
FIF	RE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MTD UNO, INCLUDE	FDR.	FEEDER	XFMR	TRANSFORMER
	FIRE DOCUMENT BOX EQUAL TO MFR. SPACE AGE ELECTRONICS DB-ACE-11.	CKT. LTG.	CIRCUIT LIGHTING	MB MLO	MAIN BREAKER MAIN LUGS ONLY
	RE ALARM CONTROL PANEL WITH EMERGENCY VOICE SYSTEM, DORESSABLE, FLUSH MTD UNO, INCLUDE A FIRE DOCUMENT BOX	LC	LIGHTING CONTACTOR	RMC	RIGID METAL CONDUIT
	QUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11. RE ALARM EMERGENCY VOICE EVACUATION SYSTEM, FLUSH OR	IG	ISOLATED GROUND	RNC	RIGID NONMETALLIC CONDUIT
SL	IRFACE.	EA. N1	EACH NEMA-1	EMT	ELECTRICAL METALLIC TUBING CONDUIT
		N3R N4X	NEMA-3R NEMA-4X	s/n ac	SOLID NEUTRAL ABOVE COUNTER
	DWER SUPPLY, DEDICATED 110V DOR HOLDER DEVICE: STUB 3/4"C ABOVE CEILING FROM J-BOX	SS	STAINLESS STEEL	AHJ	ABOVE COUNTER AHUTHORITY HAVING JURISDICTION
	MPER SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX	NC	PTES:	Т	TAMPER PROOF
	OW SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX	1.)	48" AFF INDICATES TO TOP OF D 15" AFF INDICATES TO BOTTOM	-	
FIF	RE ALARM OUTDOOR SPEAKER, WEATHER PROOF: STUB 3/4"C ABOVE EILING FROM J-BOX		ALL OTHER MOUNTING HEIGHTS AC INDICATES 6" ABOVE COUN	REFER TO CEN	
CTRI	CAL LEGEND-GENERAL				
bols sho	WN MAY NOT APPEAR IN ALL DRAWINGS. IN SCHEMATIC AND MAY NOT BE TO SCALE.	1			
		ALL	SYMBOLS SHOWN MAY NOT APPEAR		
L	DESCRIPTION		OLS ARE SHOWN SCHEMATIC AND M		
I I		\oplus	SINGLE RECEPTACLE - 20/		
	HEAVY DUTY DISCONNECT SWITCH FUSED HEAVY DUTY DISCONNECT SWITCH NONFUSED	\oplus	DUPLEX RECEPTACLE - 20		
	HEAVY DUTY COMBINATION DISCONNECT/MOTOR STARTER	Ţ	DUPLEX RECEPTACLE TAM NEMA 5-20R	IPER RESISTANT	- 20A/125V/2P/3W/G
	HEAVY DUTY MOTOR STARTER	⊣Ф/Ф	H HOSPITAL GRADE DUPLEX NEMA 5-20R	RECEPTACLE/C	GFI - 20A/125V/2P/3W/G
	ENCLOSED BREAKER, RE: TO SCH. FOR MORE INFO.	۲	DUPLEX RCPT. GFI - 20A/1	125V/2P/3W/G I	NEMA 5-20R
	ROTARY TYPE DISCONNECT SWITCH	WF	DUPLEX RCPT., WEATHER	RESISTANT "WR",	GFI INSTALLED IN A
	120/277-208/480V,20AMP, MOTOR RATED SWITCH, NEMA-1(INTERIOR)	[⊕] "IN	USE" "IN-USE" WEATHER PROO NEMA 5-20R WP/"IN-USE"		SURE- 20A/125V/2P/3W/G ALTO MFR. CARLON,
	ENCLOSURE, NEMA-3R (EXTERIOR) ENCLOSURE. VOLTAGE TO BE SELECTED PER EQUIPMENT CIRCUIT REQUIREMENTS.		METALLIC SERIES SINGLE DOUBLE GANG, VERTICA		
	MOTOR	\oplus	QUADRAPLEX RECEPTAC	LE	
	PANELBOARD, CLEARANCE AS PER LATEST NEC		ISOLATED GROUND QUA	DPLEX RECEPTA	CLE
	SWITCH LEG				
	ELECTRICAL CONDUIT	•	ISOLATED GROUND DUPL	EX RECEPTACLE	20a/125v nema 5-20r
	UNDERGROUND ELECTRICAL CONDUIT	\oplus	208V RECEPTACLE, VERIF	Y NEMA NO. WI	TH EQUIPMENT SUPPLIER
	COMMUNICATION CONDUIT AND WIRING	\bigotimes	SPECIAL PURPOSE RECEP	TACLE (NEMA N	IO. AS INDICATED)
		HD	J-BOX - AIR HAND DRYER: PROVIDED BY DIVISION 16		
	MULTI-POLE DEVICE CIRCUIT NUMBERS THREE SINGLE POLE DEVICE CIRCUIT NUMBERS		HANDCRAFT AS MANUFA	CTURER BY BOB	
	CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH		ELE. CONNECTIONS TYP.)		
-	INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES	$\overline{\mathbf{O}}$	4-GANG FLOOR MOUNTE RECEPTACLE WITH COVER		EX RECEPTACLE(INCLUDE
	OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.	V	MOUNTED UNO FLOOR B	OX = MFRHUB	BELL
-	UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE			TEEL RECESSED	FLOOR BOX-VERIFY FLOOR
	PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION	<u></u> 60	FINISH PRIOR TO ORDER S 6-GANG FLOOR MOUNTE		DATA OUILETS. .EX RECEPTACLE(INCLUDE
	INDICATES PANEL AND BREAKER.		RECEPTACLE WITH COVER MOUNTED UNO FLOOR B	r Plate)/2-gai	NG FOR DATA - FLUSH
	DETAIL NUMBER SHEET NUMBER		MODEL#CFB6G30CR-CFE	BS1R8CVRALU	COVER)-(3)FBMPDUP-FBMP6KS FLOOR BOX-VERIFY FLOOR
	Sheei Number Thermostat Wall Mounted - Stub 1/2"C above ceiling from		FINISH PRIOR TO ORDER S		
	OUTLET BOX. COORDINATE EXACT LOCATION AND HEIGHT WITH MECHANCIAL DIVISION.	●6P			DUPLEX RECEPTACLE(INCLUDE
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	Ŵ	RECEPTACLE WITH COVER MODEL#\$1R6PTFIT-\$1R6SP	E-S1R6SPL-S1R6	6SPH (50/50 DEVICE PLATE
⊢(J) ⊓	MINIMUM OF 4" SQUARE		COMBINATION)-S1R6CVR TO ORDER SAME BOX FOR		VERIFY FLOOR FINISH PRIOR S.
	PHOTO CELL(MFR.INTERMATIC #K4136M)	⊙6JP ©			RNITURE FEED,- MFRHUBBELL
	LIGHTING CONTACTOR, NEMA-1, W/H.O.A. SWITCH		MODEL#S1R6PTFFALU(AL PRIOR TO ORDER.	UMINUM COVI	erj -verify flour HNISH
]]	TIME CLOCK (MFR.TORK#7202Z) CIRCULATING PUMP	• 8P	8" FIRE RATED POKE-TRHO	UGHS BOX, 2-D	DUPLEX RECEPTACLE(INCLUDE
	ELECTRICAL DEVICE AS SHOWN ON PLANS SURFACE MOUNT RACEWAY.	●8P ⑦	RECEPTACLE WITH COVER MODEL#S1R8PTFIT3-S1R8C	R PLATE)- MFR	HUBBELL
	SURFACE MOUNT RACEWAY SHALL BE WIREMOLD #V700 SERIES. PROVIDE ALL RELATED #V700 SERIES ACCESSORIES FOR AN OPERABLE			R8CVRALU(CO	VER) - VERIFY FLOOR FINISH
1 1			AIL NOTE: VERIFY WITH AF	RCHITECTURAL F	OR <u>ADA REQUIREMENTS.</u>
CEILI	NG (CEILING	4" MIN.	. , , , , , , , , , , , , , , , , , , ,	CEILING
	RECEP		12" MAX. AND) \	
RECEPTA		OUTLET IONE OULET	6" MIN.		OUNTED SMOKE DETECTOR
/			+		
<u></u>				1	
	48" MAX. UNLESS LOCATED ABOVE "OBSTRUCTION"		TAT,RE:DIV.15 80"		RM STROBE/AUDIO
المضحي ا	SUCH AS A COUTER, THEN 42" MAXIMUM.		MAX.		

FINISHED FLOOR

PROVIDE 18"AFF UNLESS OTHERWISE NOTED.

FINISHED FLOOR

GENERAL ELECTRICAL NOTES

- ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.
- USE DIRECTIONAL ARROW ON EXIT SIGNS AS REQUIRED.
- IEEE STANDARD C37.2-1991, ELECTRICAL POWER SYSTEM DEVICE FUNCTION NUMBERS.
- CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A COMMON RACEWAY. IF CONTRACTOR IS PLANNING ON GROUPING MULTIPLE CIRCUITS IN A SINGLE RACEWAY, THE CONTRCATOR MUST SUBMIT ALL DERATING CALCULATIONS FOR THE PROPOSED INSTALLATION IN ACCORDANCE WITH NEC ARTICLE 310.15 (B) (2) FOR APPROVAL PRIOR TO INSTALLATION. NON APPROVED INSTALLATIONS WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE NEC AT NO ADDITIONAL COST TO THE OWNER.
- THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF THREE 90° BENDS (270 DEGREES TOTAL) BETWEEN PULL POINTS. WHERE THERE ARE MORE THAN THREE QUARTER BENDS, CONTRACTOR SHALL PROVIDE PULL BOXES AS SPECIFIED AND SIZED IN ACCORDANCE WITH NEC.
- COMPLY WITH NEC REQUIREMENTS FOR ELECTRICAL INSTALLATIONS. ALL ELECTRICAL EQUIPMENT AND MATERIAL TO BE APPROVED, LISTED, LABELED, IDENTIFIED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY.
- ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SERVED BY EMERGENCY BRANCH CIRCUITS SHALL BE "RED" IN COLOR. COVERPLATES SHALL BE LABELED IN ACCORDANCE WITH SPECIFICATIONS TO INDICATE PANELBOARD AND CIRCUIT NO. (IE: ET*LA-3).

			LUMINA	IRE SCHEDULE		
MARK	VOLTAGE	LAMP	MOUNTING	DESCRIPTION	MODEL NO.	
A	120V	LED 4000 LM 3500K 30W	LAY-IN	2'X4' LED TROFFER FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	LITHONIA 2GTL-440LMVOLT-EZ1-LP835	
AE	SAME AS TYPE 'A' EXCEPT WITH 1400 LUMEN EMERGENCY BATTERY PACK					
В	120V	LED 5200LM 3500K 50W	SURFACE	2'X4' LED LOW PROFILE FIXTURE, DLC CERTIFIED, HIGH EFFIICIENCY 0-10V DRIVER	SOLAS RAY LIGHTING FP24-050-35-AC-U-D	
BE	SAME AS TY	PE 'B' EXCEPT WITH 14	00 LUMEN EMERGENC	CY BATTERY PACK		
С	120V	LED 4200LM 3500K 40W	SURFACE	2'X2' LED LOW PROFILE FIXTURE, DLC CERTIFIED, HIGH EFFIICIENCY 0-10V DRIVER	SOLAS RAY LIGHTING FP22-040-35-AC-U-D	
D	120V	LED 2000 LM 3500K 23W	RECESSED	6"LED RETROFIT, OPEN DOWN- LUMINAIRE, SEMI-SPECULAR REFLECTOR, WITH 0-10V DRIVER	LITHONIA LDN6-35/20-LO6-AR-LSS-MVOLT-EZ10	
E	120V	INCLUDED	SURFACE	EMERGENCY LIGHTING UNIT W/ SELF-DIAGNOSTICS	LITHONIA ELM2 LED SD	
F	120V	LED 1500LM 3500K 20W	RECESSED	6"LED RETROFIT OPEN DOWN- LUMINAIRE, SEMI-SPECULAR REFLECTOR, WITH 0-10V DRIVER	LITHONIA LDN6-35/15-LR-6-AR-LSS-MVOLT-EZ10	
G	120V	LED 3000 LM 3500K 34W	SURFACE	4' LED STRIP LIGHT FIXTURE, 0-10V DRIVER, UL LISTED, WITH WIREGUARD	LITHONIA ZL1N-L48-L/LENS-MVOLT-35K-80CRI-WH-WGZ48	
Н	120V	LED 2671 LM 3500K 33W	SURFACE	2' LED VANITY LIGHT FIXTURE DRIVER, UL LISTED,	LITHONIA FMVTSL-24IN-MVOLT-35K-90CRI-BN	
X1	120V	LED	SURFACE	LED THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	LITHONIA LHQM LED _ R SD	
X2	120V	LED	SURFACE	LED THERMOPLASTIC EXIT UNIT WITH SELF-DIAGNOSTICS WITH DIRECTIONAL CHEVRON	LITHONIA LQM-P-W-R-120/277-ELN-SD	
AA	120V	LED 2500LM 4000K 39W	SURFACE	LED WALL LUMINAIRE, WET LOCATION RATED, UL LISTED	LITHONIA TWH LED-10C-1000-40K-T3M-MVOLT-DNAXD	
BB	120V	LED 4800W 4000K 72W	SURFACE	LED WALL LUMINAIRE, WET LOCATION RATED, UL LISTED	LITHONIA TWH LED-20C-1000-40K-T3M-MVOLT-DNAXD	
СС	120V	LED 50W	SURFACE	LED WALL WASH COLOR CHANGING FIXTURE, RATED FOR WET LOCATIONS, INCLUDE CONTROL BOXES, KEYPADS AND ALL REQUIRED CABLING	PHILIPS BCP472 36XLED-HB/RGB 100-240V 36 BK DATA ENABLER PRO	
DD	120V	LED 1000 LM 4000K 15W	SURFACE	LED WALL LUMINAIRE, 0-10V DRIVER, ETL WET LOCATIONS LISTED	VISA LIGHTING OW2302 L35K MVOLT AG7038	
FF	120V	LED (1.3W/FT)	SURFACE	LED LINEAR COLOR CHANGING FIXTURE, PROVIDE ALL DMX CONTROL BOXES, SOFTWARE FOR A PROPER INSTALLATION	PHILIPS BCP421 120 RGB L1200 CE	
GG	120V	LED 4889LM 4000K 42W	SURFACE	LED FLOOD FIXTURE, FLOOD DISTRIBUTION, WET LOCATION RATED, UL LISTED	LITHONIA DSXF1 P2 40K FL MVOLT IS DDBXD	
HH	120V	LED 2000LM 4000K 22.6W	SURFACE	LED SURFACE MOUNT FIXTURE, WET LOCATION LISTED	GOTHAM EVO CYL 40/20 6AR _ WD LSS MVOLT GZ10 FCM DNA	
JJ	120V	LED 533LM 4000K 9.1W	SURFACE @7'-0''AFF	LED WALL MOUNTED FIXTURE, WET LOCATION LISTED	LITHONIA OLLWULED P1 40K MVOLT DDB	

NOTE:

FINISHED FLOOR

2.) SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE.

3.) SUBMIT LIGHT FIXTURES CUTSHEETS TO OWNER FOR APPROVAL PRIOR TO ORDER.

4.) CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK.

5.) CONTRACTOR SHALL VERIFY THAT ANY LIGHT POLES ON COMMON AREAS AND SIDE WALKS, THAT THE LOCATION OF THE POLE TO ME 6.) CONTRACTOR SHALL FIELD VERIFY FOR EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.

ELECTRICAL: LIGHTING FUNCTIONAL TESTING / COMMISSIONING PLAN: CONTRACTOR SHALL PERFORM THE TASK BELOW TO COMMISSION THE LIGHTING CONTROL SYSTEM. CONTRACTOR SHALL SUBMIT A DOCUMENTATION DETAILING THE LIGHTING CONTROL SYSTEM, SETTING/CONDITION, ACTIONS PERFORMED AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE CERTIFICATE OF OCCUPANCY.

A. ENSURE ALL LIGHTING FIXTURES FIXTURES HAVE LAMPS INSTALLED AND ARE FUNCTIONAL. B. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY BALLASTS FURNISHED INTEGRAL TO FIXTURES. C. ENSURE ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONAL. D. VERIFY ALL WALLBOX AND SCENE CONTROLLERS ARE INSTALLED AND OPERATIONAL.

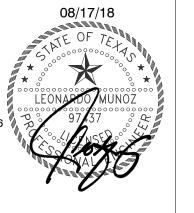
E. TEST EACH INDIVIDUAL DEVICE FOR OCCUPANCY SENSOR TYPES OS1, OS2 AND TEST THE LIGHTING CONTROL RELAY PANEL SYSTEM. F. TEST 10% OF ALL THE DEVICES FOR OCCUPANCY SENSOR TYPE: WSX-PDT-SA.

- G. VERIFY THE FOLLOWING: 1. ALL SENSORS ARE LOCATED AND AIMED PER THE MANUFACTURER'S RECOMMENDATIONS. 2. STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT.
- 3. DEVICES CONTROL LIGHTING FIXTURES AS INDICATED ON DRAWINGS. 4. TIME DELAYS HAVE BEEN SET AS PER CODE AND PER OWNERS DIRECTIONS.
- 5. MOVEMENT IN ADJACENT AREAS AND/ CYCLING OF HVAC SYSTEMS DOES NOT FALSE TRIGGER SENSORS.
- 6. PHOTOCELL LOCATION AND AIMED PER MANUFACTURERS RECOMMENDATIONS. 7. PROGRAM INTERIOR RELAYS WITH A TIME FUNCTION ACCEPTABLE TO OWNER. 8. PROGRAM INTERIOR OVERRIDE SWITCH WITH A TIME FUNCTIONAL ACCEPTABLE BY OWNER.

1.) EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER.



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LIGHTING CONTROL SENSORS LEGEND

Symbol	ACUITY MODEL NUMBER	CONDUIT	COMMENTS
OS1	NCM-PDT-10	3/4"C	PROVIDE POWER PACK POSITIONED AS DIRECTED BY MANUFACTURER. REFER TO PLANS FOR TYPE OF POWER PACK. REFER TO PLANS AND SCHEDULES FOR SWITCHING TYPES.
_{\$} OS2	wsx-pdt-sa	3/4"C	
NP	nPP16	3/4"C	POWER PACK, 120,240,277, VAC, 16AMPS/POLE, PLENUM RATED, RELAY CONTACT PROTECTION, RJ-45 PORT
NP D	nPP16 D	3/4"C	POWER PACK, 120,240,277, VAC, 16AMPS/POLE, 0-10VDC DIMMING, PLENUM RATED, RELAY CONTACT PROTECTION, RJ-45 PORT
LCP	BLUE BOX LT	RE: PLANS	LIGHTING CONTROL RELAY PANEL, REFER TO RELAY PANEL SCHEDULE.
_{\$} SW1	nPODMWH	3/4"C	WALL MOUNT SWITCH WITH ON/OFF WITH STAINLESS STEEL PLATE
_{\$} SW2	nPODMDXWH	3/4"C	WALL MOUNT SWITCH WITH ON/OFF WITH RAISE /LOWER FUNCTION AND WITH STAINLESS STEEL PLATE

GENERAL NOTES: A. CONTRACTOR SHALL REFER TO MANUFACTURERS INSTRUCTIONS AND WIRING DIAGRAMS PRIOR TO BID

B. CONTRACTOR SHALL INCLUDE ALL COST IN BID FOR AN OPERABLE LIGHTING SYSTEM. NOTES:

DATE

- 1. All sensor locations are approximate, refer to manufacturers installation instructions prior to installation.
- 2. Ultrasonic ceiling mount sensors should be located a minimum of six feet from HVAC supply/return vents.
- 3. Contractor is responsible for: proper sensitivity & time delay settings (for non-adaptive products) recommended placement,

and field verification of circuits with in respect to power placement.4. Contractor is responsible for field verification of required number of power packs:

- \cdot One power pack is required for each circuit to be controlled.
- \cdot One power pack is required for every three sensors in the zone.
- $\cdot\,$ If multiple circuits are to be controlled by a sensor, an auxiliary relay can be
- used in conjunction with the power pack.
 The maximum number of sensors that can be put on a power pack is to be
- reduced by one for each slave pack used.
- 5. Sensors mounted over the door must be placed one foot inside the threshold.
- 6. Contractor is responsible for ensuring that the sensor bill of materials complies with the sensor design and layout specifications.
- Contractor is responsible for installing equipment in compliance with local code.
 Refer to manufacturers wiring diagrams.

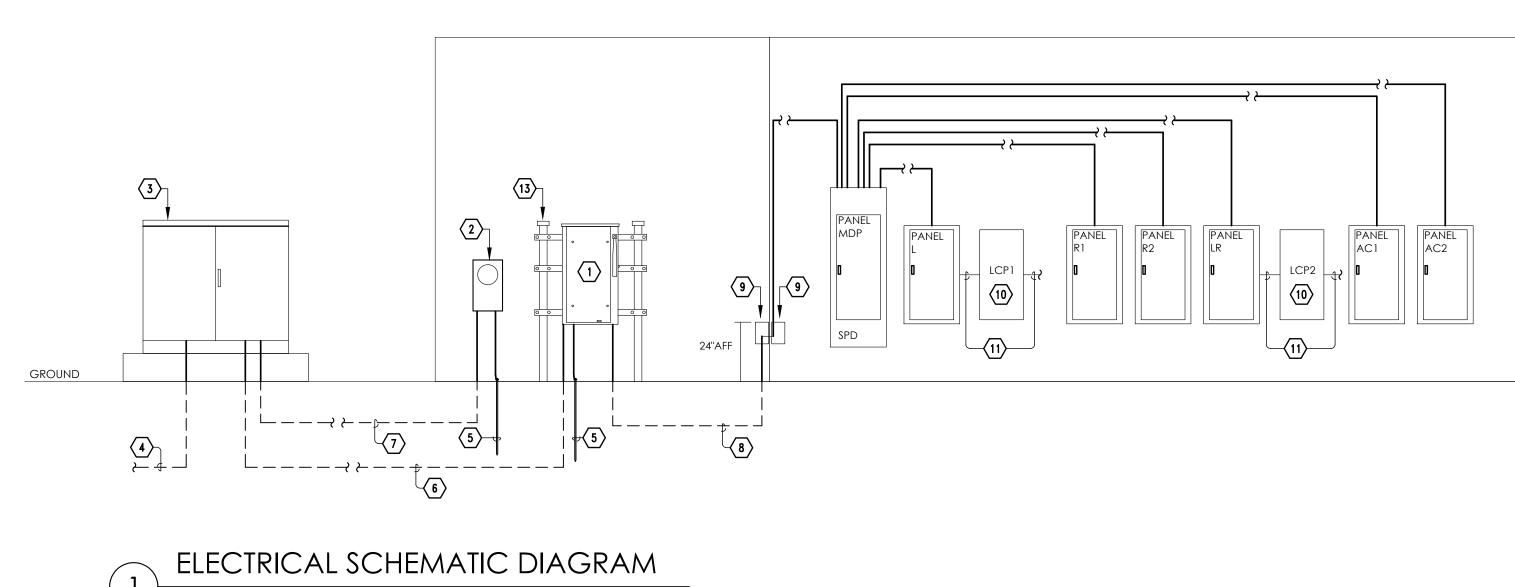
DISCONNECT SCHEDULE				
LABEL	DESCRIPTION			
AHU-A1-A7, AHU-B1-B6, AHU-C1-4	30AMP, 1Ø, 3W, N1,240V, S/N, N.F., H.D. DISCONNECT			
CU-A1-A7, CU-B1-B4, CU-B6, CU-C1-C4	30AMP, 1Ø, 3W, N3R,240V, S/N, H.D. FUSED DISCONNECT			
CU-B5	30AMP, 1Ø, 3W, N3R,240V, S/N, H.D. FUSED DISCONNECT			
FCCU-1	30AMP, 1Ø, 3W, N3R,240V, S/N, H.D. FUSED DISCONNECT			
NOTE: 1. REFER TO BREAKER SIZE FOR FUSE SIZE.				

2. REFER TO PANELBOARD FOR DISCONNECT PHASES AND VOLTAGE.

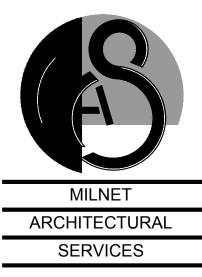
GENERAL NOTES:

- A. PROVIDE GROUND /BONDING AS INDICATED ON THE NATIONAL ELECTRICAL CODE.
- B. NAME PLATES SHALL BE PROVIDED FOR ALL ELECTRICAL SWITCH GEAR, PANEL BOARDS,
- LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, ETC.. BY ELECTRICAL CONTRACTOR. C. NEW ELECTRICAL METERING AND SERVICE EQUIPMENT SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE LOCAL POWER UTILITY CO. AND CITY REQUIREMENTS. VERIFY AND COORDINATE WITH POWER UTILITY CO. AND AHJ BEFORE BID AND INSTALLATION.
- D. COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.
- E. PANELBOARDS WITH MORE THAN 42 CIRCUITS SHALL BE IN ONE CABINET ENCLOSURE, UNLESS OTHERWISE NOTED.
- F. PROVIDE 4"CONCRETE PAD FOR ALL DRY-TYPE TRANSFORMERS.
- G. ALL TWO SECTION PANELBOARDS SHALL BE FEED THRU LUGS.
- H. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE TO THE NEW BUILDING WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS, INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.
- I. THE CONTRACTOR SHALL FURNISH SHORT-CIRCUIT AND PROTECTION DEVICE COORDINATE STUDIES WHICH SHALL BE PREPARED BY THE EQUIPMENT GEAR MANUFACTURER.
- J. THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER NFPA 70E-STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REFERENCE ARTICLE 130.3 AND ANEEX D.

- ELECTRICAL RISER DIAGRAM KEYED NOTES:
- PROVIDE NEW 800AMPS, 208V, 3Ø, 4W, S/N, N3R, HEAVY DUTY FUSED SERVICE ENTRANCE DISCONNECT, FUSED@800AMPS.
- DISCONNECT, FUSED@800AMPS. 2 NEW ELECTRICAL SERVICE METER 120/208V, 3Ø, 4W. CONTRACTOR SHALL PROVIDE METER BASE. VERIFY WITH POWER FOR METER BASE REQUIREMENTS PRIOR TO BID DATE. INCLUDE ALL COST IN BID. COORDINATE ALLOCATION OF METER SOCKET AND WIRING WITH POWER
- 3 NEW POWER COMPANY PAD MOUNT TRANSFORMER 120/208V, 3Ø, 4W, PROVIDE CONCRETE PAD AS PER POWER COMPANY REQUIREMENTS.
- 4 FURNISH AND INSTALL 1-4"C FOR UTILITY PRIMARY RACEWAY TO POWER SOURCE AS DIRECTED BY UTILITY COMPANY. PROVIDE WARNING RIBBONS 12" ABOVE CONDUIT.
- 5 1#3/0G in 1"C, 3/4"X10' COPPER CLAD RODS. PROVIDE GROUNDING AS PER NEC REQUIREMENTS.
- $\overline{(6)}$ PROVIDE 2-RUNS EACH OF 4#600KCMIL, 4"C.
- $\overline{7}$ PROVIDE 1-2"C WITH PULLSTRING.
- **8** PROVIDE 2-RUNS EACH OF 4#600KCMIL, 1#3/0G, 4"C.
- 9 PROVIDE NEMA-3R JUNCTION BOX, SIZE AS REQUIRED BY NEC.
- (10) LIGHTING RELAY PANEL, REFER TO RELAY PANEL SCHEDULE.
- LIGHTING CIRCUITS TO BE CONTROL BY RELAY PANEL, REFER TO LIGHTING CIRCUIT WIRE SIZE AND CONDUIT REQUIREMENTS.
- 3"GALVANIZED PIPE WITH UNISTRUT STAND FOR ELECTRICAL SERVICE EQUIPMENT. COORDINATE WITH UTILITY COMPANY PRIOR TO ANY WORK.



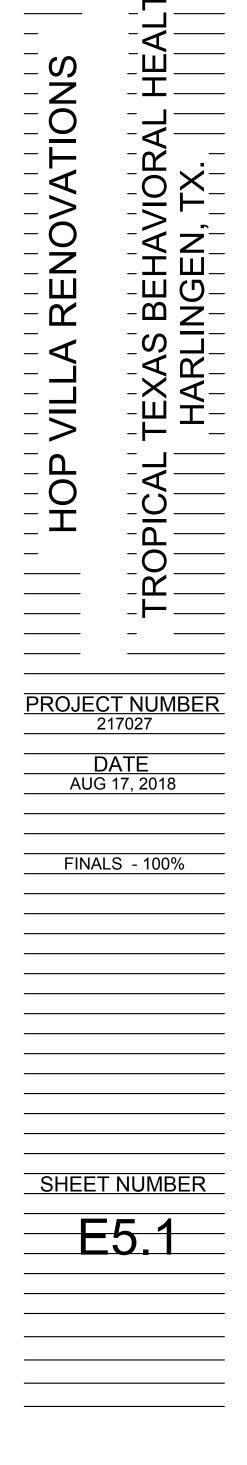
SCALE: NTS



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DESCRIPTION	CONNECTED KVA	DEMAND	TOTAL KVA	4
LIGHTING	23	125%	28.75	
GENERAL POWER	104	NEC 220.40	57	
HVAC	127	100%	127	
WATER HEATER	23	100%	23	
	total w	ATTS:	235.75 K	VA
	total a	MPS:	654.8 A	MPS
	WIRE SIZE A	MPS:	800 A	MPS





08/17/18

PANEL - MDP	AMP	LUGS	NEMA	V(LL)		(P)		(W)		V(LN)	MNT	KAIC	FDR	: 2-RUNS EACH,
OCATION-	800	MLO	1	208		3		4		120	SUR.	50	4#60	00KCMIL, 1#1/0G, 4"C
LOAD	CKT	load	BKR	POLE	FEEDER/BRANCH CIRCUIT				FEEDER/BRANCH CIRCUIT	POLE	BKR	load	СКТ	LOAD
SERVED	#	KVA	SIZE		SIZE	А	В	С	SIZE		SIZE	KVA	#	Served
PANEL-R1	1	32	225	2	3#4/0, 1#4G,3"C	*			3#600KCMIL, 1#3G, 4"C	2	400	36	2	PANE-R2
п	3	24			-		*		-			33	4	п
PANEL-L	5	14	200	2	3#3/0, 1#6G,2"C			*	3#2, 1#8G,1 1/2"C	2	100	5	6	PANEL-LR
н	7	11			-	*			-			6	8	п
PANEL-AC1	9	37	400	2	3#600KCMIL, 1#3G, 4"C		*		3#600KCMIL, 1#3G, 4"C	2	400	26	10	PANEL-AC2
н	11	36			-			*	-			25	12	н
SPACE	13				-	*			-				14	SPACE
SPACE	15				-		*		-				16	SPACE
SPACE	17				-			*	-				18	SPACE
SPACE	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
SPD	37		60	2	4#6, 1#10G, 1"C	*			-				38	SPACE
п	39				-		*		-				40	SPACE
п	41				-			*	-				42	SPACE
LOADS	-	(KVA)				85	119	80				(KVA)	-	DESCRIPTIVE LOADS
CONNECTED LOAD	-	284				KV	A/PH	ASE				0	-	LIGHTING
RESERVE	0	0	-									0	-	RECEPTACLES
TOTAL LOAD	-	284										0	-	COOLING
			I									0		HEATING
total amps	-	788										284	-	OTHER

																			i				
-PANEL R1 SEC1	AMP LUGS	NEMA	V(II)	(P) (W		VIIN	MNT	KAIC	FDR		PANEL-AC2	AMP LI	UGS NE	MA	V(LL)	(P)	(W)		V(LN)	MNT K	AIC FE	DR	
	225 MLO		208			` <i>'</i>	1			N 3#4/0, 1#4G, 2 1/2"C	LOCATION:	400 N	ЛLO	1	208	1	3		120	S	10 1-	RUN 3#6	600KCMIL, 1#3G, 4"C
LOAD	CKT LOAD	-			FEEDER/BRANCH CIRCUIT	-	BKR L			LOAD	LOAD	CKT LC	DAD BI	KR	POLE FEEDER/BRANCH CIRCUIT			FEEDER/BRANCH CIRCUIT	POLE	BKR LC		кт	LOAD
SERVED	# KVA		SIZE	AB	SIZE		SIZE			SERVED	SERVED	# K	(VA SI		SIZE	Α	В	SIZE		SIZE K	VA	ŧ	SERVED
2 RCPTS		20	1 2#8, 1#10G,3/4"C	*	2#8, 1#10G,3/4"C	1	+ +	0.8		4 RCPTS	AHU-B3	1 (0.6 2	20	2 3#10, 1#10G,3/4"C	*		3#8, 1#10G,3/4"C	2	45 2	.52	2	CU-B3
5 RCPTS	3 1	20	1 2#8, 1#10G,3/4"C	*	2#8, 1#10G,3/4"C	1	20	1	4	5 RCPTS		3 (0.6		_		*	-		2	.52 ·	1	"
4 RCPTS	5 0.8		1 2#8, 1#10G,3/4"C	*	2#8, 1#10G,3/4"C	1	+ +	1.2	6	6 RCPTS	AHU-B4	5 (0.6 2	20	2 3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35 2	.52	5	CU-B4
4 RCPTS	7 0.8		1 2#8, 1#10G,3/4"C	*	2#8, 1#10G,3/4"C	1	20	1	8	5 RCPTS	п	7 (0.6		-		*	-		2	.52	3	п
4 RCPTS	9 0.8		1 2#8, 1#10G,3/4"C	*	2#8, 1#10G,3/4"C	1	20	1	10	5 RCPTS	AHU-B5	9 (0.5 2	20	2 3#10, 1#10G,3/4"C	*		3#12, 1#12G,1/2"C	2	20 1	.08 1	0	CU-B5
4 RCPTS	11 0.8		1 2#8, 1#10G,3/4"C	*	2#8, 1#10G,3/4"C	1	+ +	0.8	-	2 RCPTS	п	11 (0.5		_		*	-		1	.08 1	2	П
4 RCPTS	13 0.8		1 2#8, 1#10G,3/4"C	*	2#8, 1#10G,3/4"C	1	20	1	14	5 RCPTS	AHU-B6	13 (0.6 2	20	2 3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35 2	.52 1	4	CU-B6
4 RCPTS	15 0.8		1 2#10, 1#10G,3/4"C	*	2#10, 1#10G,3/4"C	1	20	1	14	5 RCPTS	п	15 (0.6		_		*	-		2	.52 1	6	п
6 RCPTS	17 1.2		1 2#10, 1#10G,3/4"C	*	2#10, 1#10G,3/4"C	1	+ +	0.8		4 RCPTS	AHU-C1	17 1	1.08 2	20	2 3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35 2	2.52 1	8	CU-C1
4 RCPTS	19 0.8			*		1	20		20	5 RCPTS	н	19 1	1.08		-		*	-		2	2.52 2	0	н
			1 2#10, 1#10G,3/4"C	*	2#10, 1#10G,3/4"C 2#10, 1#10G,3/4"C	1	+ +				AHU-C2	21	0.6 2	20	2 3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35 2	.52 2	2	CU-C2
6 RCPTS			1 2#10, 1#10G,3/4"C	*			+ +	0.8		4 RCPTS	n	23	0.6		-		*	-		2	2.52 2	4	п
4 RCPTS	23 0.8		1 2#12, 1#12G,1/2"C		2#10, 1#10G,3/4"C			0.8		2 RCPTS	AHU-C3	25 (0.6 2	20	2 3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35 2	2.52 2	6	CU-C3
4 RCPTS	25 0.8		1 2#10, 1#10G,3/4"C	*	2#12, 1#12G,1/2"C		+ +	0.8		4 RCPTS	п	27 (0.6		_		*	-		2	.52 2	8	П
5 RCPTS	27 1	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C			1.2		6 RCPTS	AHU-C4	29 1		20	2 3#10, 1#10G,3/4"C	*		3#8, 1#10G,3/4"C	2			0	CU-C4
5 RCPTS	29 1	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C		20		30	5 RCPTS			1.08	-	_		*	-				2	"
4 RCPTS	31 0.8	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	+ +	1.2		6 RCPTS	MOTORIZED DAMPERS		1.2 2	20	1 2#12, 1#12G,1/2"C	*		_				4	SPACE
MICRO	33 1.2		1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1		1.2		REFRIGERATOR	SPACE	35					*	_				6	SPACE
5 RCPTS	35 1	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	+ +	0.8		2 RCPTS	SPACE	37			_	*		_				8	SPACE
5 RCPTS	37 1	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	20		38	5 RCPTS	SPACE	39			_		*	_				0	SPACE
4 RCPTS	39 0.8	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	+ +	1.2	40	1 RCPT	SPACE	41				*		_				2	SPACE
1 RCPT	41 1.2	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	+ +	1.5		1 RCPT	LOADS	 - (K				26	25			I I (K	VA)		CRIPTIVE LOADS
ACCESS CONTROLS	43 1.2	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	20	0.6	44	QUAD	CONNECTED LOAD	-				KVA/P				(1)	0	- LIGH	
ACCESS CONTROLS	45 1.2	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	20	0.6	46	QUAD	RESERVE	- 25				KVA/P	HASE				0		PTACLES
6 RCPTS	47 1.2	20	1 2#12, 1#12G,1/2"C	*	2#12, 1#12G,1/2"C	1	20	0.8	48	4 RCPTS	TOTAL LOAD	-									39	- COC	
WH-1	49 1.5		2 2#10, 1#10G,3/4"C	*	2#12, 1#12G,1/2"C	1	+	0.2		CP-1		L									11	- HEAT	
"	51 1.5		-	*	2#12, 1#12G,1/2"C	1	20	0.6	52	EF-7	total amps	- 2	263								0	OTHE	.R
POWER POLE	53 0.4	20	1 2#10, 1#10G,3/4"C	*	2#10, 1#10G,3/4"C	1	20	0.4	54	POWER POLE	NOTES:	-											
POWER POLE	55 0.4	20	1 2#10, 1#10G,3/4"C	*	2#10, 1#10G,3/4"C	1	20	0.4	56	POWER POLE	1) CIRCUIT INDEX SHALL IN	ICLUDE RO	DOM#S										
POWER POLE	57 0.4	20	1 2#10, 1#10G,3/4"C	*	2#10, 1#10G,3/4"C	1	20	0.4	58	POWER POLE	2)												
1 RCPT	59 1.5	20	1 2#12, 1#12G,1/2"C	*	2#8, 1#10G,3/4"C	1	20	1.5	60	1 RCPT	3)												
SPACE	61		-	*	-				62	SPACE													
SPACE	63		-	*	-				64	SPACE													
LOADS	- (KVA)			32 24			(KVA)	-]	DESCRIPTIVE LOADS													
CONNECTED LOAD	- 52			KVA/PHAS	<u> </u>			0	-	LIGHTING													
RESERVE	0 0	-						49	- 1	RECEPTACLES													
TOTAL LOAD	- 52									COOLING													
	·	7								HEATING													
TOTAL AMPS	- 218							3	- (OTHER													
NOTES: 1) CIRCUIT INDEX SHALL IN		145																					
2)		1#3																					
3)																							
<u>, '</u>																							

LOAD CKI LOAD BKR POLE FEEDER/BRANCH CIRCUIT FEEDER/BRANCH CIRCUIT PILE BKR LOAD CKT LOAD SERVED # KVA SIZE SIZE A B SIZE SIZE KVA # SIZE KVA # SIZE KVA # SIZE KI KVA # SIZE KI KI CA CA CA CA CA CA SIZE KI KI SIZE KI KI SIZE KI KI KI CA CA CA CA CA CA CA	EL-AC1	AMP	lugs	NEMA	∨(LL)		(P)	(W)		V(LN)	MNT	KAIC	FDR	
SERVED # KVA SIZE SIZE A B SIZE N # SERVER AHU-A1 1 1.08 20 2 3#10,1#10G,3/4"C * 3 3.46 2 CL " 3 1.08 0 - - 4 - - 3.46 4 - AHU-A2 5 0.6 20 2 3#10,1#10G,3/4"C * - - - 2 35 2.52 6 CL " 7 0.6 20 2 3#10,1#10G,3/4"C * * - - - 2.52 8 CL " 1.1 1.08 20 2 3#10,1#10G,3/4"C * * 3#8,1#10G,3/4"C 2 3.56 12 CL " 1.1 1.08 20 2 3#10,1#10G,3/4"C * * 3#8,1#10G,3/4"C 2 3.56 12 CL " 1.1 1.08 20 2 3#10,1#10G,3/4"C * * 3.56 3.56 <td>ATION:</td> <td>400</td> <td>MLO</td> <td>1</td> <td>208</td> <td></td> <td>1</td> <td>3</td> <td></td> <td>120</td> <td>S</td> <td>10</td> <td>1-RU</td> <td>N 3#600KCMIL, 1#3G, 3</td>	ATION:	400	MLO	1	208		1	3		120	S	10	1-RU	N 3#600KCMIL, 1#3G, 3
AHU-A1 1 1.08 20 2 3#10,1#10G,3/4°C + 3#8,1#10G,3/4°C 2 45 3.36 4 MHU-A2 5 0.6 20 2 3#10,1#10G,3/4°C + 3#10,1#10G,3/4°C 2 3.36 4 MHU-A2 5 0.6 20 2 3#10,1#10G,3/4°C + 3#10,1#10G,3/4°C 2 3.56 4 "" 7 0.6 - - * 3#10,1#10G,3/4°C 2 45 3.36 10 CCL "" 11 1.08 20 2 3#10,1#10G,3/4°C * 3#8,1#10G,3/4°C 2 3.36 12 "" 11 1.08 20 2 3#10,1#10G,3/4°C * 3#8,1#10G,3/4°C 2 3.36 12 "" 15 0.6 0 - - * 3#8,1#10G,3/4°C 2 3.36 12 "" 19 1.08 20 2 3#10,1#10G,3/4°C * 3#8,1#10G,3/4°C 2 45 3.36 22 CCL ""	LOAD	СКТ	load	BKR	POLE	FEEDER/BRANCH CIRCUIT			FEEDER/BRANCH CIRCUIT	POLE	BKR	load	CKT	LOAD
AND-R1 1 1.08 2 2 3/10, 11/10G,3/4°C 1 3/10, 11/10G,3/4°C 1 3/10, 11/10G,3/4°C 2 4/10 3/10, 11/10G,3/4°C 2 4/10 3/10, 11/10G,3/4°C 2 4/10 3/10, 11/10G,3/4°C 2 4/10 3/10, 11/10G,3/4°C 2 3/10,	SERVED	#	KVA	SIZE		SIZE	А	В	SIZE		SIZE	KVA	#	SERVED
AHU-A2 5 0.6 20 2 3#10,1#10G,3/4"C 4 3#10,1#10G,3/4"C 2 35 2.52 6 C.C. " 7 0.6 0 2 3#10,1#10G,3/4"C * 1 2.52 8 C.C. AHU-A3 9 1.08 20 2 3#10,1#10G,3/4"C * 1 3#6,1#10G,3/4"C 2 45 3.6 10 C.C. " 11 1.08 20 2 3#10,1#10G,3/4"C * 1 3.68 12 C.C. " 15 0.6 2 3#10,1#10G,3/4"C * 1 3.68 12 C.C. " 15 0.6 2 3#10,1#10G,3/4"C * 1 2.52 16 C.C. " 15 0.6 2 3#10,1#10G,3/4"C * 3#8,1#10G,3/4"C 2 45 3.68 12 C.C. " 10 1.08 2 3#10,1#10G,3/4"C * 3#8,1#10G,3/4"C 2 45 3.6 22 C.C. 1 1.6	AHU-A1	1	1.08	20	2	3#10, 1#10G,3/4"C	*		3#8, 1#10G,3/4"C	2	45	3.36	2	CU-A1
ANDAL 3 0.6 2 Andress Andress 2 3.6 2.6 0 2.62 8 AHU-A3 9 1.08 20 2 3#10, 1#10G,3/4°C * * 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	п	3	1.08			-		*	-			3.36	4	11
AHU-A3 9 10.8 0 2 3 #10, 1#10G,3/4°C * 1 1 1.0	AHU-A2	5	0.6	20	2	3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35	2.52	6	CU-A2
Mid No 1 1.35 12 12 12 3.35 10 Corr " 11 1.08 - - * - 4 - 4.1 3.36 12 - - - 4.1 3.36 12 - - - 3.36 12 - - - 3.36 12 - - - 3.36 12 - - - 3.36 12 - - - 3.36 12 - <td>п</td> <td>7</td> <td>0.6</td> <td></td> <td></td> <td>-</td> <td></td> <td>*</td> <td>-</td> <td></td> <td></td> <td>2.52</td> <td>8</td> <td>п</td>	п	7	0.6			-		*	-			2.52	8	п
AHU-A4 13 0.6 20 2 3#10,1#10G,3/4"C * 0 3#10,1#10G,3/4"C 2 35 2.52 14 CL " 15 0.6 0 2 3#10,1#10G,3/4"C * 0 2.52 16 0 " 10 1.08 20 2 3#10,1#10G,3/4"C * 0 2.52 16 0 " 19 1.08 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,3/4"C 2 45 3.36 20 AHU-A6 21 1.8 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,3/4"C 2 45 3.36 20 0 AHU-A6 21 1.8 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,3/4"C 2 45 3.36 24 0 " 23 1.08 20 2 3#10,1#10G,3/4"C * 0 3#10,1#10G,3/4"C 2 3#10,1#10G,3/4"C 2 3#10,1#10G,3/4"C 2 60 4.44 30 0	AHU-A3	9	1.08	20	2	3#10, 1#10G,3/4"C	*		3#8, 1#10G,3/4"C	2	45	3.36	10	CU-A3
" 15 0.6 2.52 16 AHU-A5 17 1.08 20 2 3#10, 1#10G, 3/4"C * 3#8, 1#10G, 3/4"C 2 45 3.36 18 CCL " 19 1.08 20 2 3#10, 1#10G, 3/4"C * 3.36 20 AHU-A6 21 1.8 20 2 3#10, 1#10G, 3/4"C * 3.36 20 AHU-A6 21 1.8 20 2 3#10, 1#10G, 3/4"C * </td <td>н</td> <td>11</td> <td>1.08</td> <td></td> <td></td> <td>-</td> <td></td> <td>*</td> <td>-</td> <td></td> <td></td> <td>3.36</td> <td>12</td> <td>н</td>	н	11	1.08			-		*	-			3.36	12	н
AHU-A5 17 1.08 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,3/4"C 2 45 3.36 18 CL " 19 1.08 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,3/4"C 2 45 3.36 20 0 AHU-A6 21 1.8 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,3/4"C 2 45 3.36 20 0 " 23 1.08 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,3/4"C 2 45 3.36 20 0 " 25 0.6 20 2 3#10,1#10G,3/4"C * 0 3#8,1#10G,1"C 2 30 0.52 26 4.44 30 " 1.2 20 2 3#10,1#10G,3/4"C * 3#8,1#10G,1#10G,3/4"C 2 45 3.4 40 40 " 1.2 20 2 3#10,1#10G,3/4"C * 4 3#10,1#10G,3/4"C 4 5.5 5.6 5.6 <t< td=""><td>AHU-A4</td><td>13</td><td>0.6</td><td>20</td><td>2</td><td>3#10, 1#10G,3/4"C</td><td>*</td><td></td><td>3#10, 1#10G,3/4"C</td><td>2</td><td>35</td><td>2.52</td><td>14</td><td>CU-A4</td></t<>	AHU-A4	13	0.6	20	2	3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35	2.52	14	CU-A4
Allows 17 1.00 20 2 3 #0 (##1063,34°C) 1 3 #0 (##1063,34°C) 12 4 = 1 3.38 16 October "" 19 1.08 0 - - 4 - - 10 3.36 20 3.36		15	0.6					*				2.52	16	п
AHU-A6 21 1.8 20 2 3#10,1#10G,3/4"C * 1 3#8,1#10G,3/4"C 2 45 3.6 22 CL " 23 1.08 - - - 1 * 3#8,1#10G,3/4"C 2 45 3.6 22 CL " 23 1.08 - - - * 3#8,1#10G,3/4"C 2 35 2.5 2.6 CL " 27 0.6 20 2 3#10,1#10G,3/4"C * - - 1 2 35 2.5 2.6 CL " 27 0.6 20 2 3#10,1#10G,3/4"C * 3#6,1#10G,1"C 2 60 4.4 30 CL " 31 1.2 20 2 3#10,1#10G,3/4"C * 3#10,1#10G,3/4"C 2 35 2.5 34 CL " 31 1.2 20 2 3#10,1#10G,3/4"C * 1 35 0.6 3 5 SPACE 37 0.6 0.4	AHU-A5	17	1.08	20	2	3#10, 1#10G,3/4"C	*		3#8, 1#10G,3/4"C	2	45	3.36	18	CU-A5
AH0-AG 21 1.0 20 2 0.00 100 0.	н	19	1.08			-		*	-			3.36	20	ш
AHU-A7 25 0.6 20 2 3#10,1#10G,3/4°C * 1 3#10,1#10G,3/4°C 2 35 2.52 26 CCU " 27 0.6 20 2 3#10,1#10G,3/4°C * 1 - 1 2.52 28 CCU AHU-B1 29 1.2 20 2 3#10,1#10G,3/4°C * 1 3#6,1#10G,1"C 2 60 4.44 30 CCU " 31 1.2 20 2 3#10,1#10G,3/4°C * 1 3#10,1#10G,3/4°C 2 4.44 30 CCU " 31 1.2 20 2 3#10,1#10G,3/4°C * 3#10,1#10G,3/4°C 2 35 2.52 34 CCU " 31 1.2 20 2 3#10,1#10G,3/4°C * 1 3#10,1#10G,3/4°C 2 35 2.52 34 CCU " 35 0.6 20 2 3#10,1#10G,3/4°C * 1 1 3 3 3 3 3 3 3 <	AHU-A6	21	1.8	20	2	3#10, 1#10G,3/4"C	*		3#8, 1#10G,3/4"C	2	45	3.36	22	CU-A6
ANDAX 20 0.0 20 20 20 0.0 10 0.00 </td <td>н</td> <td>23</td> <td>1.08</td> <td></td> <td></td> <td>-</td> <td></td> <td>*</td> <td>-</td> <td></td> <td></td> <td>3.36</td> <td>24</td> <td>п</td>	н	23	1.08			-		*	-			3.36	24	п
AHU-B1 29 1.2 20 2 3#10,1#10G,3/4"C * 3#6,1#10G,1"C 2 60 4.44 30 CCU " 31 1.2 20 2 3#10,1#10G,3/4"C * 3#6,1#10G,1"C 2 60 4.44 30 CCU " 31 1.2 20 2 3#10,1#10G,3/4"C * 3#10,1#10G,3/4"C 2 35 2.52 34 CCU " 35 0.6 20 2 3#10,1#10G,3/4"C * 3#10,1#10G,3/4"C 2 35 2.52 34 CCU " 35 0.6 1	AHU-A7	25	0.6	20	2	3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35	2.52	26	CU-A7
ANNO-D1 27 1.2 20 2 3#10, 1#100,3/4°C 1 3#0, 1#100,14°C 2 360 4.44 32 " 31 1.2 - - * - - 4.44 32 AHU-B2 33 0.6 20 2 3#10, 1#100,3/4°C * 3#10, 1#100,3/4°C 2 35 2.52 34 CU " 35 0.6 20 2 3#10, 1#100,3/4°C * 3#10, 1#100,3/4°C 2 35 2.52 34 CU " 35 0.6 20 2 3#10, 1#100,3/4°C * 3#10, 1#100,3/4°C 2 35 2.52 34 CU " 35 0.6 1 <td< td=""><td>п</td><td>27</td><td>0.6</td><td></td><td></td><td>-</td><td></td><td>*</td><td>-</td><td></td><td></td><td>2.52</td><td>28</td><td>11</td></td<>	п	27	0.6			-		*	-			2.52	28	11
AHU-B2 33 0.6 20 2 3#10, 1#10G,3/4"C * 3#10, 1#10G,3/4"C 2 35 2.52 34 CCU " 35 0.6 2 2 3#10, 1#10G,3/4"C * 3#10, 1#10G,3/4"C 2 35 2.52 34 CCU " 35 0.6 2 2 3#10, 1#10G,3/4"C * 4 - 2 35 2.52 34 CCU SPACE 37 0.6 1 1 1 1 1 3 38 SP, SPACE 39 1 1 1 1 1 1 1 1 1 38 SP, SPACE 39 1	AHU-B1	29	1.2	20	2	3#10, 1#10G,3/4"C	*		3#6, 1#10G,1"C	2	60	4.44	30	CU-B1
" 35 0.6 - - * - 0 2.52 36 SPACE 37 4 4 - * - 4 38 SPAC SPACE 39 4 4 - * - 4 40 SPAC SPACE 39 4 4 40 - * - 4 40 SPAC SPACE 41 4 4 4 - 4 40 SPAC SPACE 41 4 4 4 - 4 4 5 SPACE 41 4 4 4 - 4 4 5 SPACE 41 4 4 4 4 4 5 5 CONNECTED LOAD - 72 37 36 - - 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 <td< td=""><td>п</td><td>31</td><td>1.2</td><td></td><td></td><td>-</td><td></td><td>*</td><td>-</td><td></td><td></td><td>4.44</td><td>32</td><td>п</td></td<>	п	31	1.2			-		*	-			4.44	32	п
SPACE 37 I <td>AHU-B2</td> <td>33</td> <td>0.6</td> <td>20</td> <td>2</td> <td>3#10, 1#10G,3/4"C</td> <td>*</td> <td></td> <td>3#10, 1#10G,3/4"C</td> <td>2</td> <td>35</td> <td>2.52</td> <td>34</td> <td>CU-B2</td>	AHU-B2	33	0.6	20	2	3#10, 1#10G,3/4"C	*		3#10, 1#10G,3/4"C	2	35	2.52	34	CU-B2
SPACE 39 I <td>п</td> <td>35</td> <td>0.6</td> <td></td> <td></td> <td>-</td> <td></td> <td>*</td> <td>-</td> <td></td> <td></td> <td>2.52</td> <td>36</td> <td>п</td>	п	35	0.6			-		*	-			2.52	36	п
SPACE 41 - * - - 42 SPACE SPACE 41 - * - - 42 SPACE LOADS - (KVA) 37 36 (KVA) - DESCRIPTIVE CONNECTED LOAD - 72 KVA/PHASE 0 - LIGHTING RESERVE 25 18 - 56 - COULING	SPACE	37				-	*		-				38	SPACE
LOADS-(KVA)3736(KVA)-DESCRIPTIVECONNECTED LOAD-72KVA/PHASE0-LIGHTINGRESERVE25180-9156-COOLING	SPACE	39				-		*	-				40	SPACE
CONNECTED LOAD-72KVA/PHASE0-LIGHTINGRESERVE25180-RECEPTACLETOTAL LOAD-9156-COOLING	SPACE	41				-	*		-				42	SPACE
RESERVE 25 18 0 - RECEPTACLE TOTAL LOAD - 91 56 - COOLING	LOADS	-	(KVA)				37	36				(KVA)	-	DESCRIPTIVE LOADS
TOTAL LOAD - 91 56 - COOLING	CONNECTED LOAD	-	72				KVA/P	HASE				0	-	LIGHTING
	RESERVE	25	18	_								0	-	RECEPTACLES
17 - HEATING	TOTAL LOAD	-	91									56	-	COOLING
												17	-	HEATING
TOTAL AMPS - 378 0 - OTHER OTES: 0 - OTHER 0 - OTHER		-	378									0	-	OTHER

-PANEL-LR	AMP	LUGS	NEMA	∨(LL)		(P)	(W)		V(LN)	MNT	KAIC	FDR	
	100	MLO	1	208		1	3		120	S	10	1-RU	N 3#3, 1#8G, 1 1/2"C
LOAD	CKT	LOAD	BKR	POLE	FEEDER/BRANCH CIRCUIT			FEEDER/BRANCH CIRCUIT	POLE	BKR	load	CKT	LOAD
SERVED	#	KVA	SIZE		SIZE	А	В	SIZE		SIZE	KVA	#	SERVED
LIGHTING	1	1.1	20	1	2#12, 1#12G,1/2"C	*		-				2	SPACE
6 RCPTS	3	1.2	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.8	4	2 RCPTS
4 RCPTS	5	0.8	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	1.2	6	3 RCPTS
4 RCPTS	7	0.8	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.8	8	4 RCPTS
1) VENDING	9	0.8	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	0.8	10	1) VENDING
1) EDF	11	1.2	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	1.2	12	ACCESS CONTROL
SPACE	13				-	*		-				14	SPACE
SPACE	15				-		*	-				16	SPACE
SPACE	17				-	*		-				18	SPACE
SPACE	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
SPARE	35		20	1	-		*	-				36	SPACE
SPARE	37		20	1	-	*		-				38	SPACE
SPARE	39		20	1	-		*	-				40	SPACE
SPARE	41		20	1	-	*		-				42	SPACE
LOADS	-	(KVA)				5	6				(KVA)	-	DESCRIPTIVE LOADS
CONNECTED LOAD	-	10				KVA/F	PHASE				1	-	LIGHTING
RESERVE	0	0	_								8	-	RECEPTACLES
TOTAL LOAD	-	10									0	-	COOLING
			1								0		HEATING
total amps	-	40									0	-	OTHER

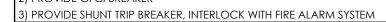
PANEL R2-SEC1		LUGS	NEMA	∨(LL)		(P)	(W)		V(LN)	MNT	KAIC		
	400	MLO	1	208		1	3		120	S			N 3#600KCMIL, 1#3G, 3 1
LOAD	CKT	LOAD	BKR	POLE	FEEDER/BRANCH CIRCUIT			FEEDER/BRANCH CIRCUIT	POLE	BKR	load	CKT	LOAD
SERVED	#	KVA	SIZE		SIZE	А	В	SIZE		SIZE	KVA	#	SERVED
1 RCPT	1	0.4	20	1	2#12, 1#12G,1/2"C	*		2#10, 1#10G,3/4"C	1	20	0.8	2	4 RCPTS
4 RCPTS	3	0.8	20	1	2#12, 1#12G,1/2"C		*	2#10, 1#10G,3/4"C	1	20	1.2	4	6 RCPTS
6 RCPTS	5	1.2	20	1	2#8, 1#10G,3/4"C	*		2#10, 1#10G,3/4"C	1	20	0.8	6	4 RCPTS
4 RCPTS	7	0.8	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	1.2	8	1 RCPT
1 RCPT	9	1.2	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	0.8	10	4 RCPTS
5 RCPTS	11	1	20	1	2#10, 1#10G,3/4"C		*	2#12, 1#12G,1/2"C	1	20	0.8	12	4 RCPTS
4 RCPTS	13	0.8	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	1.2	14	3 RCPTS
4 RCPTS	15	0.8	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.8	16	4 RCPTS
4 RCPTS	17	0.8	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	0.8	18	4 RCPTS
5 RCPTS	19	1	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.8	20	4 RCPTS
5 RCPTS	21	1	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	0.8	22	4 RCPTS
5 RCPTS	23	1	20	1	2#10, 1#10G,3/4"C		*	2#12, 1#12G,1/2"C	1	20	0.8	24	1 RCPT
REF	25	1.2	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	0.4	26	RANGE
3 RCPTS	27	1.2	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.6	28	1 RCPT
6 RCPTS	29	1.2	20	1	2#8, 1#10G,3/4"C	*		2#12, 1#12G,1/2"C	1	20	0.8	30	4 RCPTS
5 RCPTS	31	1	20	1	2#10, 1#10G,3/4"C		*	2#10, 1#10G,3/4"C	1	20	0.8	32	4 RCPTS
3 RCPTS	33	1.2	20	1	2#12, 1#12G,1/2"C	*		2#8, 1#10G,3/4"C	1	20	1.2	34	6 RCPTS
JBOX	35				2#12, 1#12G,1/2"C		*	2#10, 1#10G,3/4"C	1	20	0.8	36	4 RCPTS
6 RCPTS	37	1.2	20	1	2#8, 1#10G,3/4"C	*		2#8, 1#10G,3/4"C	1	20	1.2	38	2) VENDING
2) VENDING	39	1.2	20	1	2#8, 1#10G,3/4"C		*	2#8, 1#10G,3/4"C	1	20	1	40	5 RCPTS
6 RCPTS	41	1.2	20	1	2#12, 1#12G,1/2"C	*		-				42	SPACE
ACCESS CONTROLS	43	1.2	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	1.5	44	1 RCPT
1 RCPT	45	1.5	20	1	2#12, 1#12G,1/2"C		*	2#8, 1#10G,3/4"C	1	20	1.2	46	EDF
UH-1	47	1	20	2	3#8, 1#10G,3/4"C	*		3#6, 1#10G,1"C	2	60	5	48	WH-2
п	49	1			_		*	-			5	50	п
CP-2	51	0.2	20	1	2#12,1#12G,1/2"C	*		3#6, 1#10G,1"C	2	60	5	52	WH-3
CP-3	53	0.2	20	1	2#12, 1#12G,1/2"C		*	-			5	54	
3) KEF-1	55	1.7	20	1	2#10, 1#10G,3/4"C	*		2#12, 1#12G,1/2"C	1	20	0.6	56	3) KC-1
3) KSF-1	57	0.4	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.6	58	3) FIRE SUPRESSION
SPACE	59		20		-	*		-		20	0.0	60	SPACE
SPACE	61				_		*	_				62	SPACE
SPACE	63				-	*		_				64	SPACE
LOADS	-	(KVA)				36	33				(KVA)		DESCRIPTIVE LOADS
CONNECTED LOAD	-	69					PHASE				0		LIGHTING
RESERVE	0	0					- 17 \JL				45		RECEPTACLES
TOTAL LOAD	-	69									0		COOLING
											4		HEATING
total amps	-	287									20		OTHER

 MILNET

 ARCHITECTURAL

SERVICES

	TROPICAL TEXAS BEHAVIORAL HEALTH HARLINGEN, TX.
	T NUMBER 17027 ATE 17, 2018
FINAL	_S - 100%
	NUMBER 6.1







ANEL-GN	AMP	lugs	NEMA	V(LL)		(P)		(W)		V(LN)	MNT	KAIC	FDR	
	100	MLO	1	208		3		4		120	SUR.	10	1-RU	N 4#2, 1#8G, 2"C
LOAD	CKT	load	BKR	POLE	FEEDER/BRANCH CIRCUIT				FEEDER/BRANCH CIRCUIT	POLE	BKR	load	СКТ	LOAD
SERVED	#	KVA	SIZE		SIZE	А	В	С	SIZE		SIZE	KVA	#	SERVED
FACP	1	0.6	20	1	2#12, 1#12G,1/2"C	*			-				2	SPACE
INTRUSION	3	0.6	20	1	2#12, 1#12G,1/2"C		*		2#12, 1#12G,1/2"C	1	20	0.6	4	ACC
QUAD	5	0.8	20	1	2#12, 1#12G,1/2"C			*	2#12, 1#12G,1/2"C	1	20	0.8	6	QUAD
SPECIAL RCPT	7	2	30	2	3#10, 1#10G,3/4"C	*			2#12, 1#12G,1/2"C	1	20	0.8	8	2 RCPTS
п	9	2			-		*		2#12, 1#12G,1/2"C	1	20	2	10	SPECIAL RCPT
FCCU-1	11	1	20	2	3#12, 1#12G,1/2"C			*	-			2	12	п
п	13	1			-	*			2#12, 1#12G,1/2"C	1	20	0.6	14	1 RCPT
SPACE	15				-		*		-				16	SPACE
LOADS	-	(KVA)				5	5	5				(KVA)	-	DESCRIPTIVE LOADS
CONNECTED LOAD	-	14				KVA	/PH	ASE				0	-	LIGHTING
RESERVE	0	0										13	-	RECEPTACLES
TOTAL LOAD	-	14										1	-	COOLING
												0	-	HEATING
total amps	-	39										0	-	OTHER

	1 PHASE	,	240VA	
	PNL CIRCUIT	A	AY	
V,			TYPE	NO.
12	L-6	20	1	1
12	L-13	20	1	3
12	L-20	20	1	5
12	L-22	20	1	7
12	L-24	20	1	9
12	L-26	20	1	11
		20	1	13
		20	1	15

A=AMPS NOTES: 1. INCLUDE EXTERIOR PHOTO CELL, SOFTWARE PROGRAMMING, COMMUNICATION CARD AND GRAPHICAL CONTROLS. 2. VERIFY WITH OWNER FOR ALL PROGRAMMING SEQUENCE.

PANEL-L	AMP	LUGS	NEMA	V(LL)		(P)	(W)		V(LN)	MNT	KAIC	FDR	
	200	MLO	1	208		1	3		120	S	10	1-RU	N 3#3/0, 1#6G, 2"C
LOAD	CKT	load	BKR	POLE	FEEDER/BRANCH CIRCUIT			FEEDER/BRANCH CIRCUIT	POLE	BKR	load	CKT	LOAD
SERVED	#	KVA	SIZE		SIZE	А	В	SIZE		SIZE	KVA	#	SERVED
LIGHTING	1	1.2	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	1.2	2	LIGHTING
LIGHTING	3	1.2	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	1.2	4	LIGHTING
LIGHTING	5	1.1	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	1.1	6	LIGHTING
LIGHTING	7	1	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.9	8	LIGHTING
LIGHTING	9	1.1	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	1.1	10	LIGHTING
LIGHTING	11	1	20	1	2#12, 1#12G,1/2"C		*	2#12, 1#12G,1/2"C	1	20	0.9	12	LIGHTING
LIGHITNG	13	1	20	1	2#12, 1#12G,1/2"C	*		2#12, 1#12G,1/2"C	1	20	0.4	14	LIGHTING
LIGHTING	15	0.6	20	1	2#12, 1#12G,1/2"C		*	-				16	SPACE
EMERGENCY/EXITS	17	1.5	20	1	2#10, 1#10G,3/4"C	*		2#12, 1#12G,1/2"C	1	20	1.5	18	EMERGENCY/EXI
EXTERIOR LIGHTING	19	0.5	20	1	2#10, 1#10G,3/4"C		*	2#10, 1#10G,3/4"C	1	20	0.8	20	EXTERIOR LIGHTIN
EXTERIOR LIGHTING	21	0.8	20	1	2#10, 1#10G,3/4"C	*		2#10, 1#10G,3/4"C	1	20	0.8	22	EXTERIOR LIGHTIN
EXTERIOR LIGHTING	23	0.2	20	1	2#10, 1#10G,3/4"C		*	2#10, 1#10G,3/4"C	1	20	0.2	24	EXTERIOR LIGHTIN
EXTERIOR LIGHTING	25	0.6	20	1	2#8, 1#10G,3/4"C	*		2#10, 1#10G,3/4"C	1	20	0.4	26	EXTERIOR LIGHTIN
DATA ENABLER #1	27	1.2	20	1	2#10, 1#10G,3/4"C		*	2#10, 1#10G,3/4"C	1	20	1.2	28	DATA ENABLER #
SPACE	29				-	*		-				30	SPACE
SPACE	31				-		*	-				32	SPACE
SPACE	33				-	*		-				34	SPACE
SPARE	35		20	1	-		*	-				36	SPACE
SPARE	37		20	1	-	*		-				38	SPACE
SPARE	39		20	1	-		*	-				40	SPACE
SPARE	41		20	1	-	*		-				42	SPACE
LOADS	-	(KVA)				14	11				(KVA)	-	DESCRIPTIVE LOADS
CONNECTED LOAD	-	25				KVA/F	PHASE				22	-	LIGHTING
RESERVE	25	6.25									2	-	RECEPTACLES
TOTAL LOAD	-	31.25									0	-	COOLING
			ſ								0		HEATING
total amps	-	150									0	-	OTHER

	PANEI CHEDU			WORKIN	G 16 Rel	ay C	abinet:			
		CATALOG NUMBE PANEL FEED: PNL-L	R: XXX			,	PANEL ID: MOUNTING:	Mast Surfac		
		LOAD		REL	.AY	Α	PNL CIRCUIT			LOAD
2	LOAD W/VA	CIRCUIT DESCRIPTION		NO.	TYPE			VAC	LOAD W/VA	CIRCUIT DESCRIPTION
/	1500	LIGHTING		2	1	20	L-7	120V	1500	LIGHTING
/	1500	LIGHTING		4	1	20	L-19	120V	1500	EXTERIOR LIGHTING
/	1500	EXTERIOR LIGHTING		6	1	20	L-21	120V	1500	EXTERIOR LIGHTING
/	1500	EXTERIOR LIGHTING		8	1	20	L-23	120V	1500	EXTERIOR LIGHTING
/	1500	EXTERIOR LIGHTING		10	1	20	L-25	120V	1500	EXTERIOR LIGHTING
/	1500	EXTERIOR LIGHTING		12	1	20		120V	1500	SPACE
	1500	SPACE		14	1	20		120V	1500	SPACE
	1500	SPACE		16	1	20		120V	1500	SPACE

480VAC

5. INCLUDE ALL TRAINING FOR PROGRAMMING AND STARTUP IN CONTRACT.
 REFER TO SPECIFICATIONS.
 6. INCLUDE REMOTE CONTROL OPTION. OWNER TO PROVIDE DATA INPUT.
 7. INCLUDE ASTRONOMICAL TIME CLOCK.

RELAY LIGHTING CONTROL PANEL PANEL L Master CABINET CIRCUIT SCHEDULE PANEL 120/240VAC, 1 PHASE CATAL PANEL NAME: LCP2 PANEL RELAY A PNL CIRCUIT LOAD VAC LOAD NO. TYPE CIRCUIT DESC 120V 1500 LIGHTING 1 1 20 LR-1 120V 1500 SPACE 3 1 20 EGEND:

1 = RELAY-1-POLE,20A, UP TO 277VAC 2 = RELAY-2-POLE, 2-POLE, 20A, UP TO 480VAC A=AMPS

NOTES:

INCLUSE
 INCLUDE EXTERIOR PHOTO CELL, SOFTWARE PROGRAMMING, COMMUNICATION CARD AND GRAPHICAL CONTROLS.
 VERIFY WITH OWNER FOR ALL PROGRAMMING SEQUENCE.

3. REFER TO SPECIFICATION 16515. 4. PROVIDE DEDICATED 20AMP 120V FROM NEAREST 120/208V PANEL.

REFER TO SPECIFICATION 16515.
 PROVIDE DEDICATED 20AMP 120V FROM NEAREST 120/208V PANEL.

LOCATION:								
DESCRIPTION	n: netv	VORKING	G 4 Rela	y Cc	abinet:			
OG NUMBER: XXX			PANEL ID:	Mast	er			
FEED: PNL-LR		MOUNTING:	Surfac	ce				
		REL	AY	Α	PNL CIRCUIT			LOAD
CRIPTION		NO.	TYPE			VAC	LOAD W/VA	CIRCUIT DESCRIPTION
		2	1	20		120V	1500	SPACE
		4	1	20		120V	1500	SPACE

5. INCLUDE ALL TRAINING FOR PROGRAMMING AND STARTUP IN CONTRACT. REFER TO SPECIFICATIONS.
 6. INCLUDE REMOTE CONTROL OPTION. OWNER TO PROVIDE DATA INPUT.
 7. INCLUDE ASTRONOMICAL TIME CLOCK.

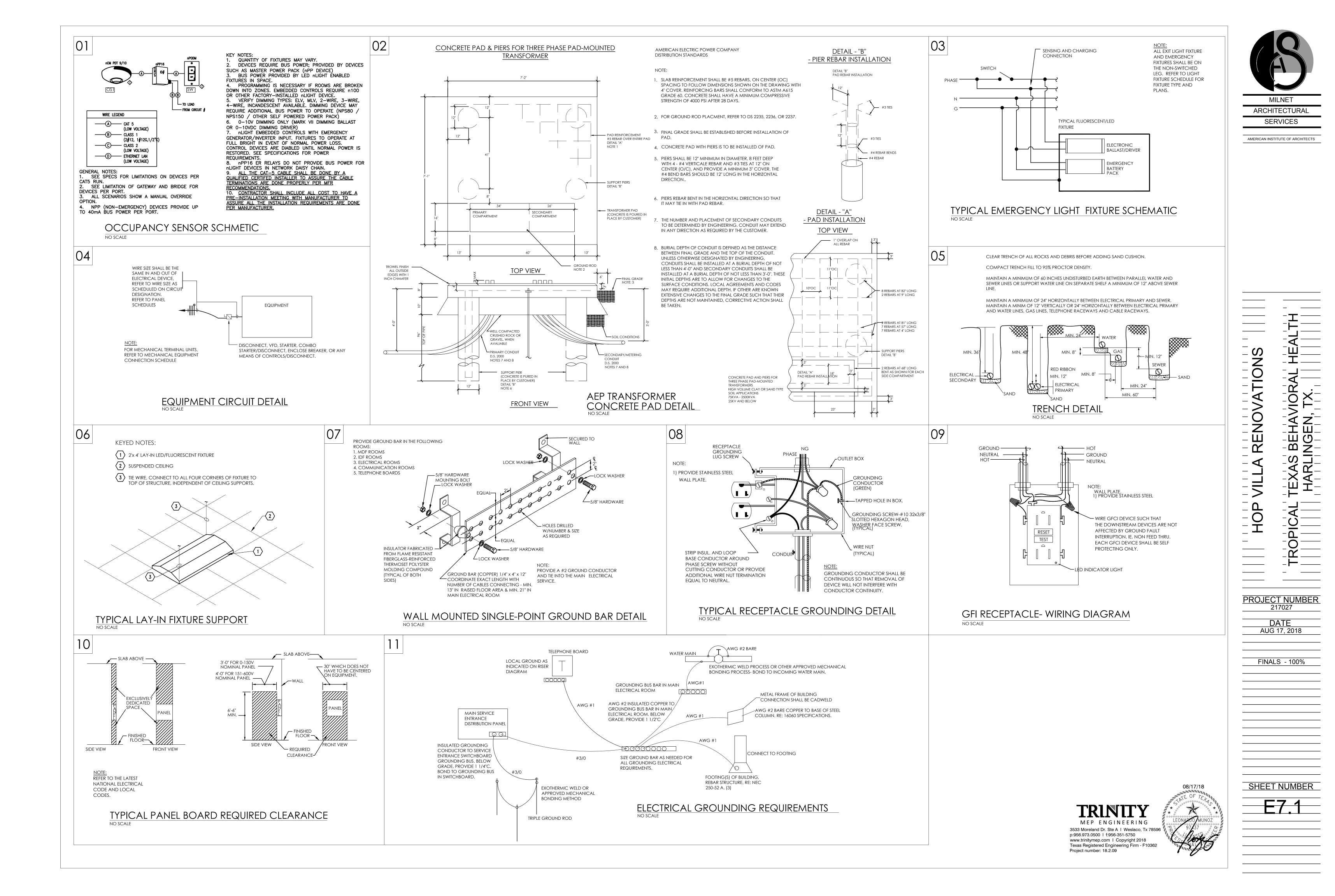


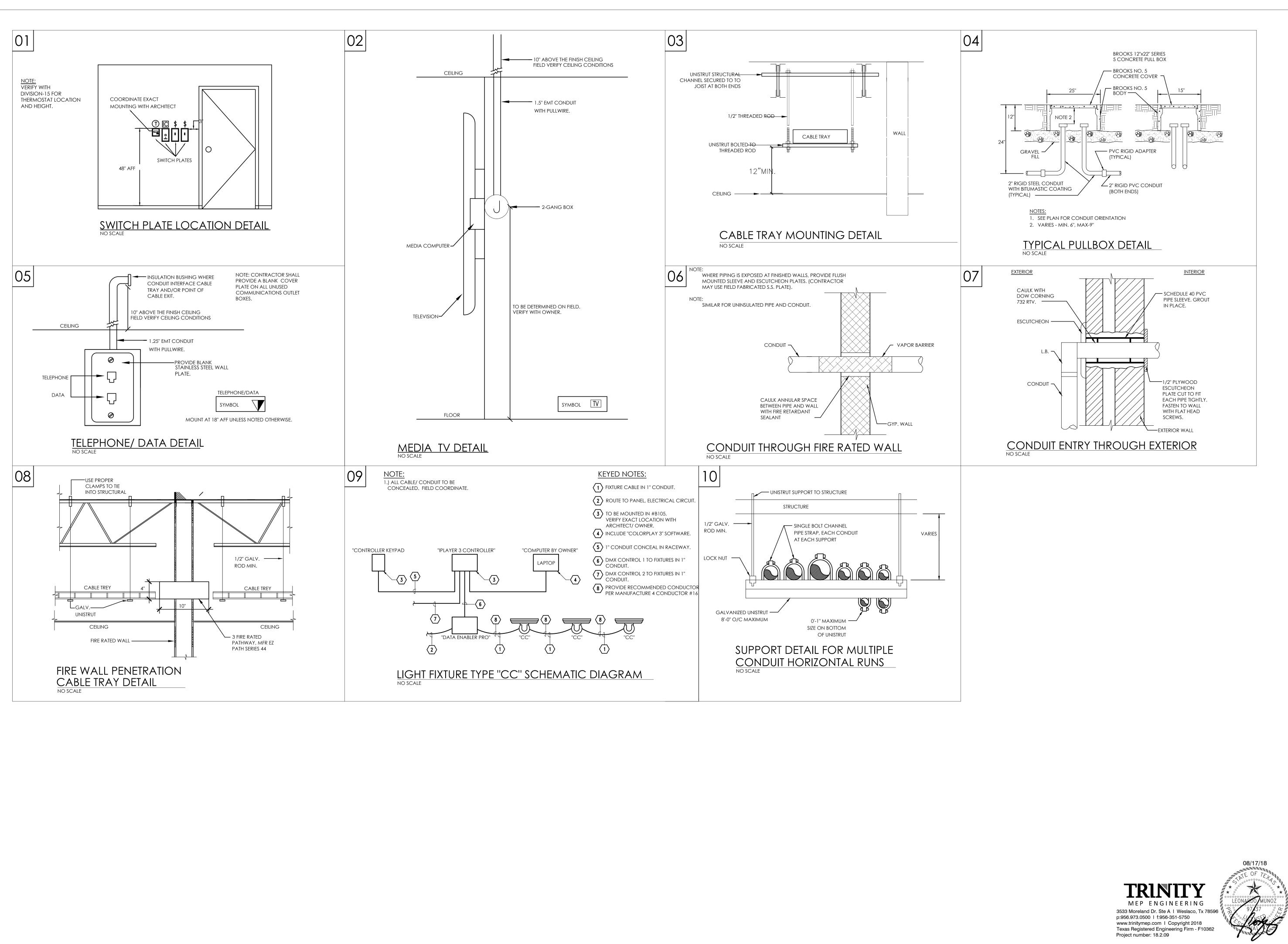
_____ _____ -----— RENOVATIONS - M <u>0</u> ⊢__ >AS BEHAV RLINGEN, — -< -HAR HAR — ___ - ОН ___ _____ _____ \underline{O} _ · N — _____ _____ _____ PROJECT NUMBER 217027 DATE AUG 17, 2018 FINALS - 100% _____ SHEET NUMBER E6.2

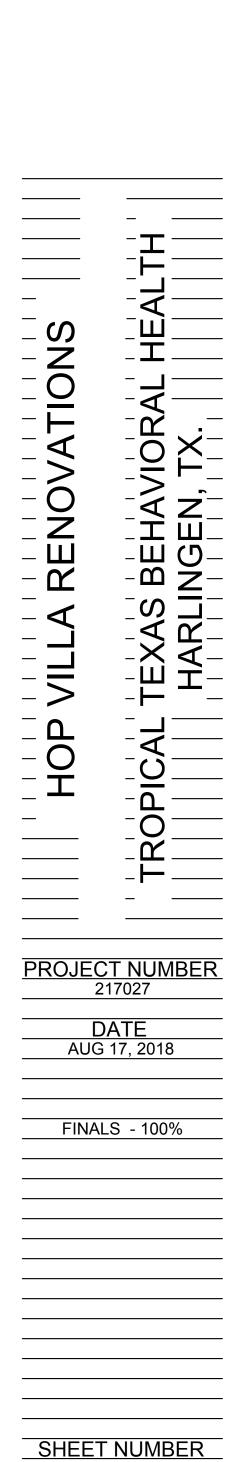
_____ _____











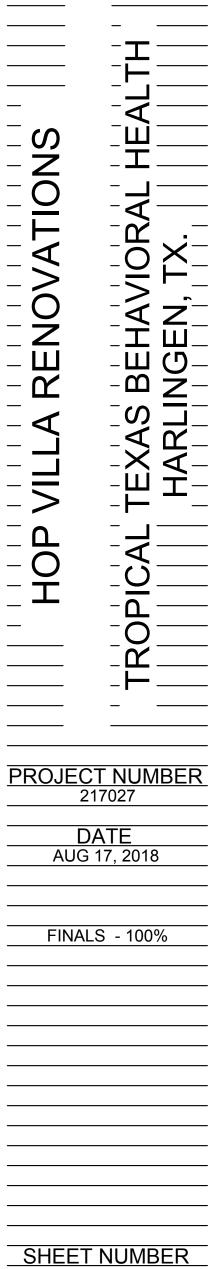
F7 2

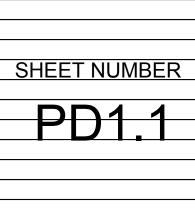
MILNET ARCHITECTURAL SERVICES

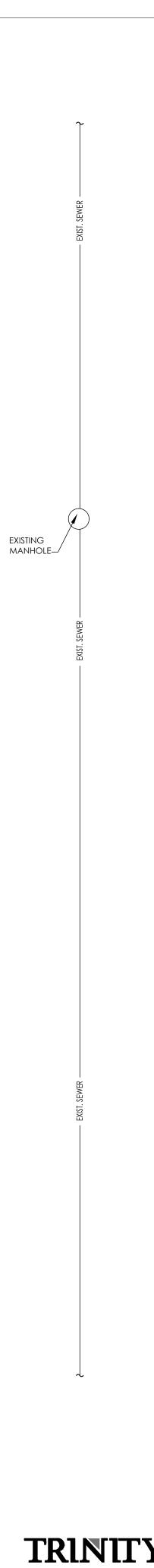


3/32 = 1'-0"

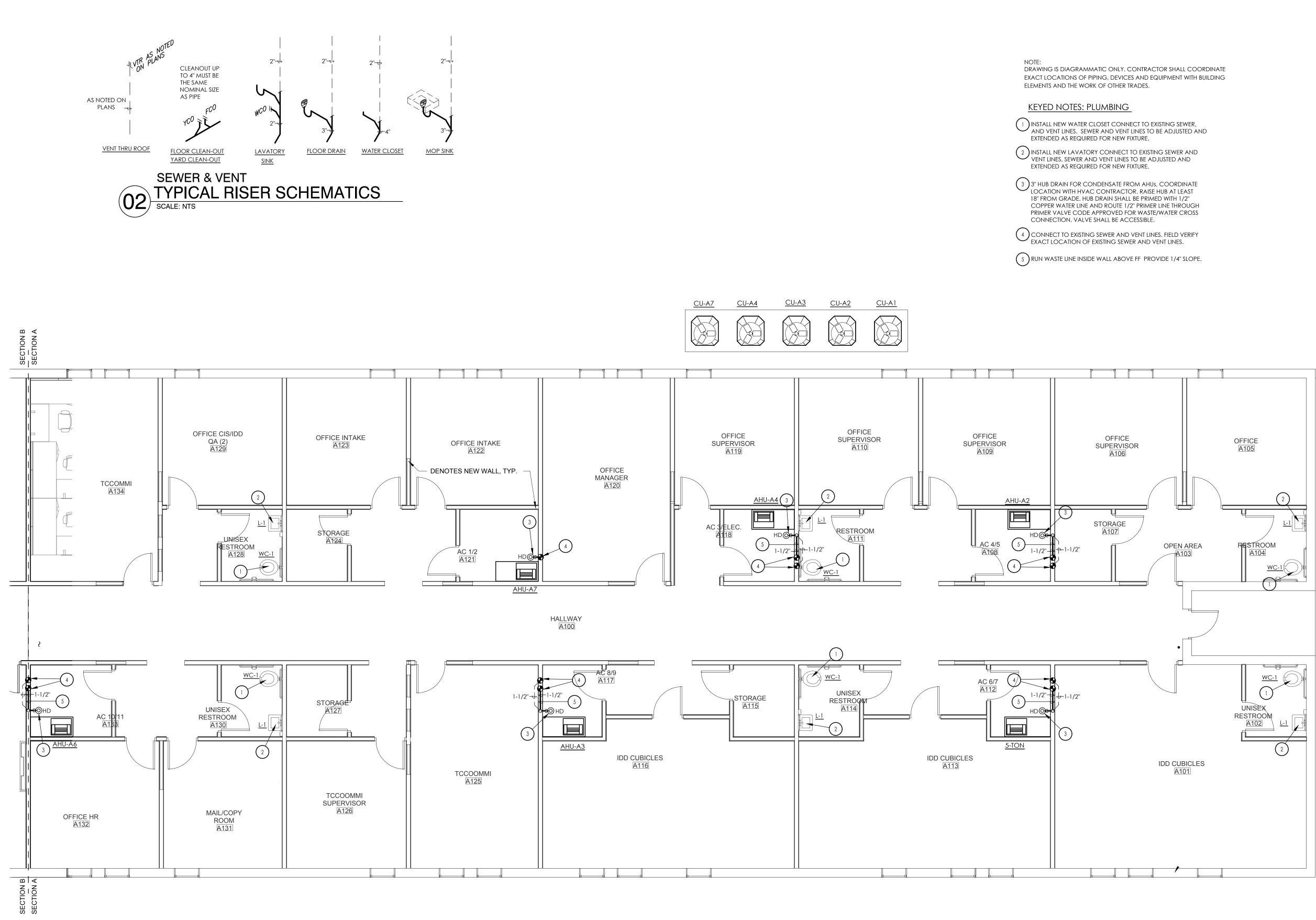






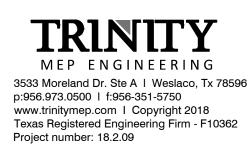






SEWER & VENT PLUMBING FLOOR PLAN SECTION A / 3/16 = 1'-0''

С			
В		A	

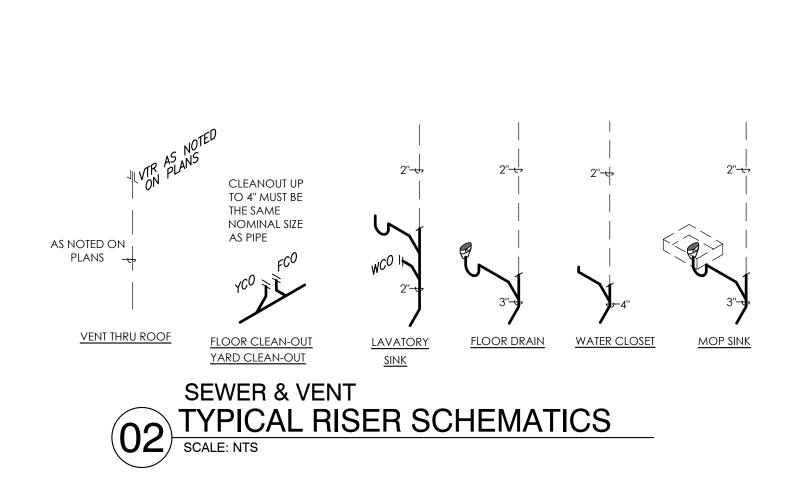


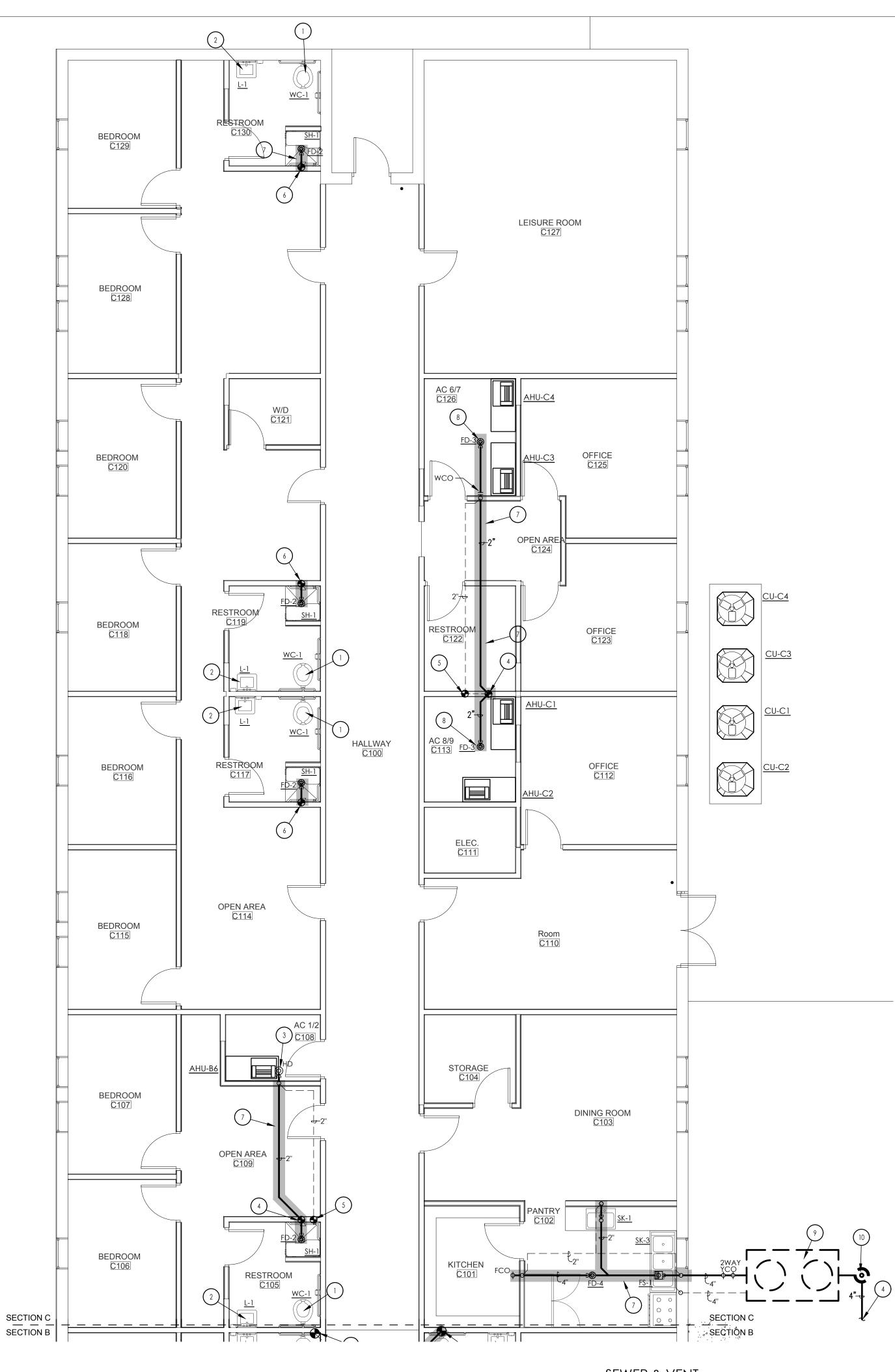




	TROPICAL TEXAS BEHAVIORAL HEALTH HARLINGEN, TX.								
	PROJECT NUMBER 217027 DATE AUG 17, 2018								
FINAL	<u>S - 100%</u>								
SHEET	NUMBER								



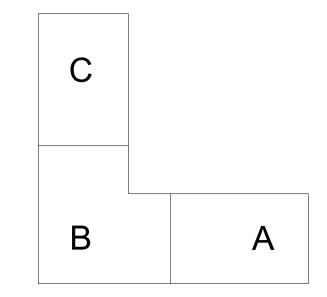


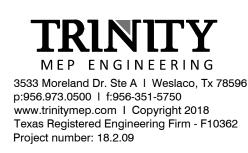


 $1 \xrightarrow{\text{SEWER & VENT}} \frac{1}{3/16 = 1'-0''}$

NOTE: DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

- KEYED NOTES: PLUMBING
- INSTALL NEW WATER CLOSET CONNECT TO EXISTING SEWER AND VENT LINES. SEWER AND VENT LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.
- 2 INSTALL NEW LAVATORY CONNECT TO EXISTING SEWER AND VENT LINES. SEWER AND VENT LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.
- (3) 3" HUB DRAIN FOR CONDENSATE FROM AHUS, COORDINATE LOCATION WITH HVAC CONTRACTOR. RAISE HUB AT LEAST 18" FROM GRADE. HUB DRAIN SHALL BE PRIMED WITH 1/2" COPPER WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.
- 4 CONNECT TO EXISTING 4" SANITARY SEWER. FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT ELEVATIONS OF EXISTING SANITARY SEWER PRIOR TO ANY ROUGH-INS.
- 5 CONNECT TO EXISTING SEWER VENT. FIELD VERIFY EXACT LOCATION OF EXISTING VENT PRIOR TO ANY ROUGH-INS.
- 6 INSTALL NEW SHOWER CONNECT TO EXISTING SEWER AND VENT LINES. SEWER AND VENT LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.
- 7 SAW-CUT THRU CONCRETE TO INSTALL UNDERGROUND PLUMBING.
- 8 FLOOR DRAIN FOR CONDENSATE FROM AHUS, COORDINATE LOCATION WITH HVAC CONTRACTOR. FLOOR DRAIN SHALL BE PRIMED WITH 1/2" COPPER WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.
- 9 GREASE TRAP EQUAL TO PARK GT500. REFER TO DETAIL 01/P4.2 COORDINATE LOCATION WITH EXISTING UTILITIES IN THE AREA.
- 10 SAMPLE WELL EQUAL TO PARK SWB-154. REFER FOR DETAIL 02/P4.2.

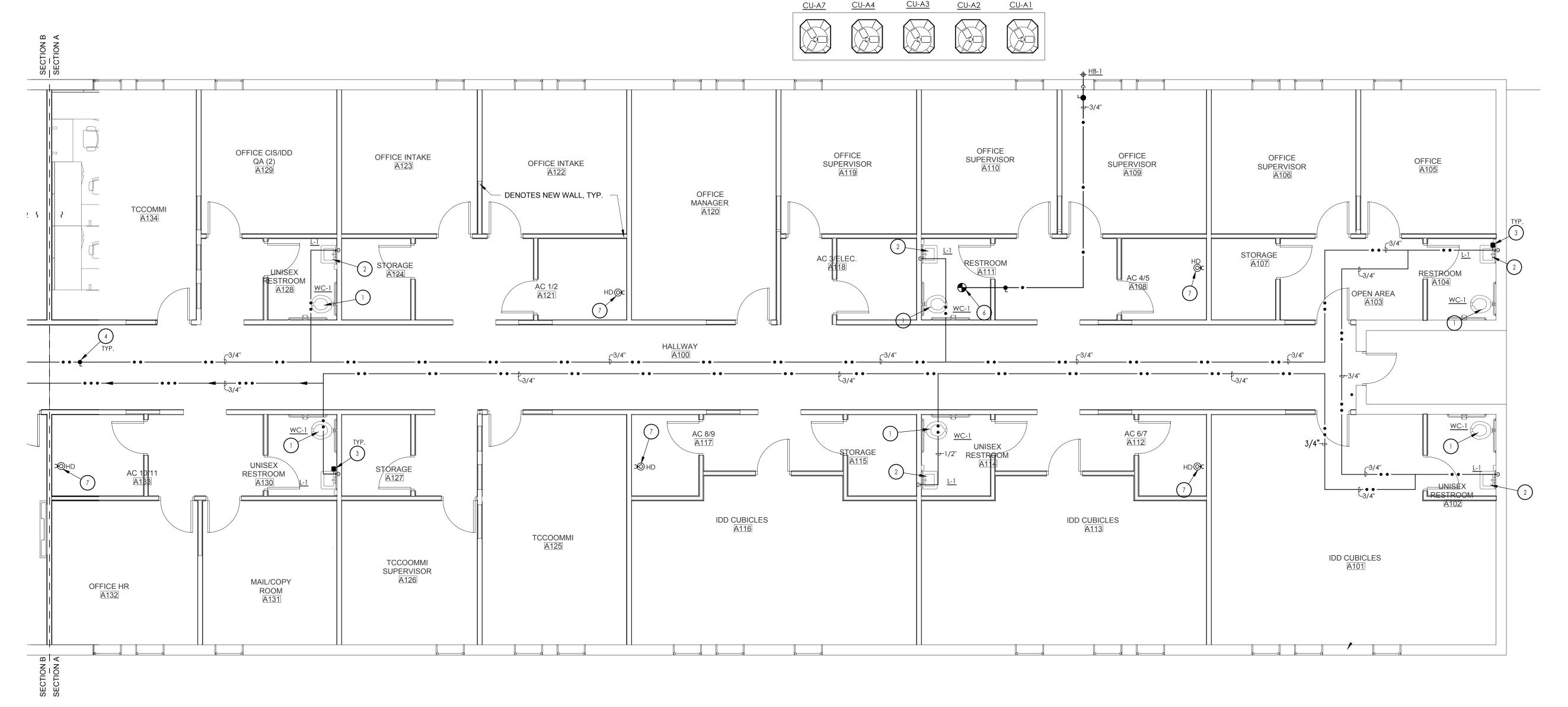






MILNET ARCHITECTURAL SERVICES

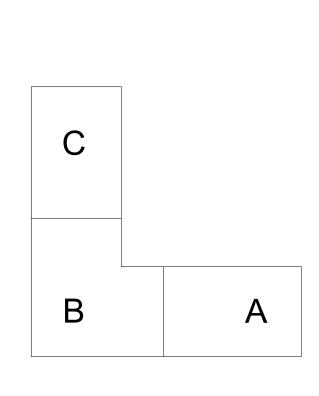
	TROPICAL TEXAS BEHAVIORAL HEALTH HARLINGEN, TX.
AUG	T NUMBER 7027 ATE 17, 2018 S - 100%
SHEET	NUMBER 1.3

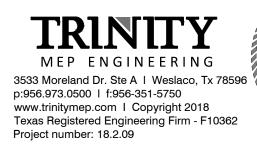




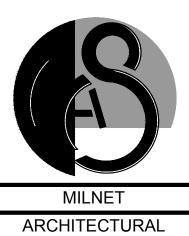
NOTE: DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

- KEYED NOTES: PLUMBING
- INSTALL NEW WATER CLOSET CONNECT TO EXISTING COLD WATER LINE. WATER LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.
- 2 INSTALL NEW LAVATORY CONNECT TO EXISTING COLD WATER LINE. WATER LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.
- 3 WATER HAMMER ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12'x12" PAINTED TO MATCH CEILING.
- 4 BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
- 5 CIRCULATING PUMP.
- 6 CONNECT NEW CW TO EXISTING CW OF EQUAL OR GREATER SIZE. VERIFY SIZE AND LOCATION OF EXISTING CW PRIOR TO CONSTRUCTION.
- 7 HUB DRAIN SHALL BE PRIMED WITH 1/2" COPPER WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.



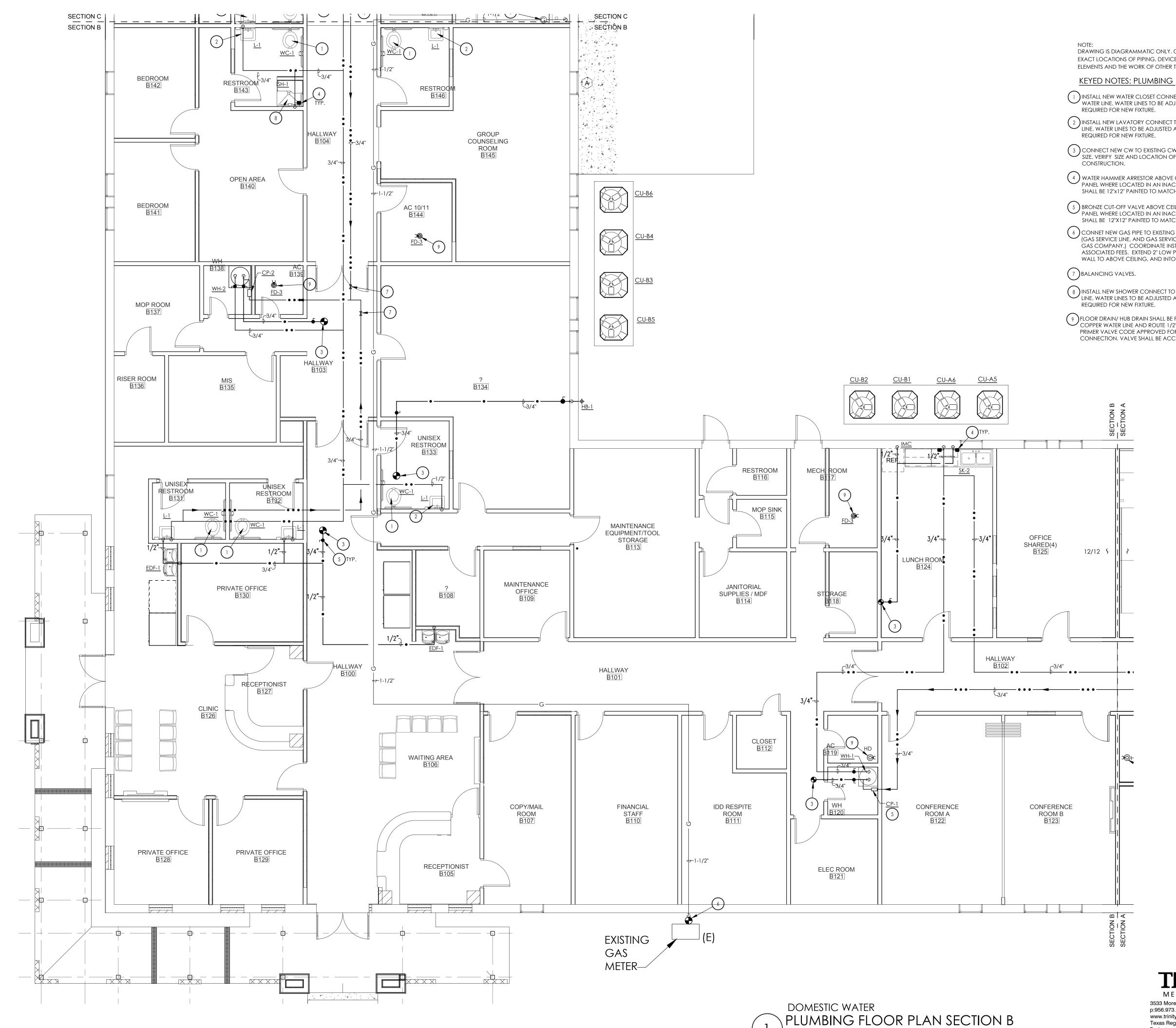






SERVICES

	TROPICAL TEXAS BEHAVIORAL HEALTH HARLINGEN, TX.							
PROJECT NUMBER 217027 DATE AUG 17, 2018								
	.S - 100%							
SHEET NUMBER P2.1								



DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

INSTALL NEW WATER CLOSET CONNECT TO EXISTING COLD WATER LINE. WATER LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.

2 INSTALL NEW LAVATORY CONNECT TO EXISTING COLD WATER LINE. WATER LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.

3 CONNECT NEW CW TO EXISTING CW OF EQUAL OR GREATER SIZE. VERIFY SIZE AND LOCATION OF EXISTING CW PRIOR TO

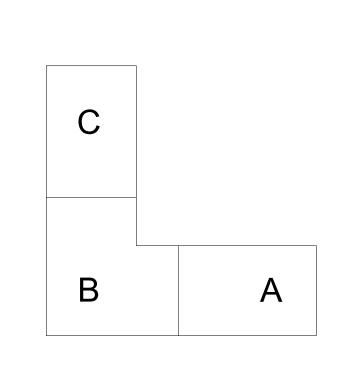
4 WATER HAMMER ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"x12" PAINTED TO MATCH CEILING.

5 BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.

(6) CONNET NEW GAS PIPE TO EXISTING NATURAL GAS METER, (GAS SERVICE LINE, AND GAS SERVICE REGULATOR BY LOCAL GAS COMPANY.) COORDINATE INSTALLATION AND PAY ALL ASSOCIATED FEES. EXTEND 2" LOW PRESSURE GAS UP EXTERIOR WALL TO ABOVE CEILING, AND INTO BUILDING.

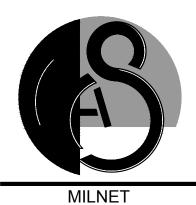
8 INSTALL NEW SHOWER CONNECT TO EXISTING COLD WATER LINE. WATER LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.

(9) FLOOR DRAIN/ HUB DRAIN SHALL BE PRIMED WITH 1/2" COPPER WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.



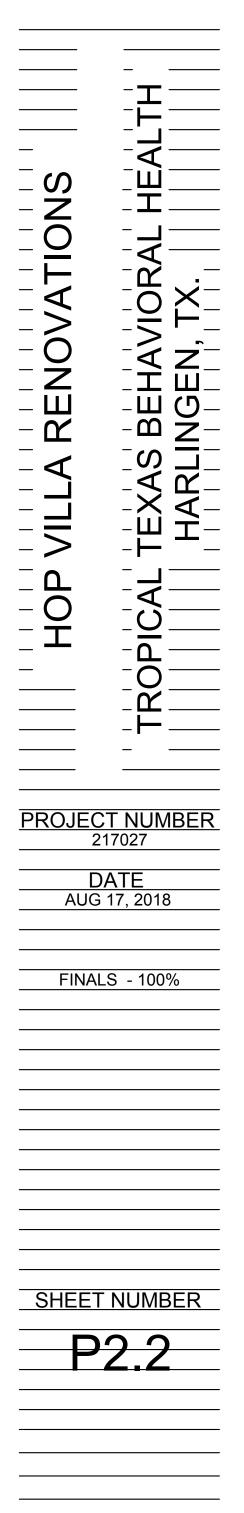




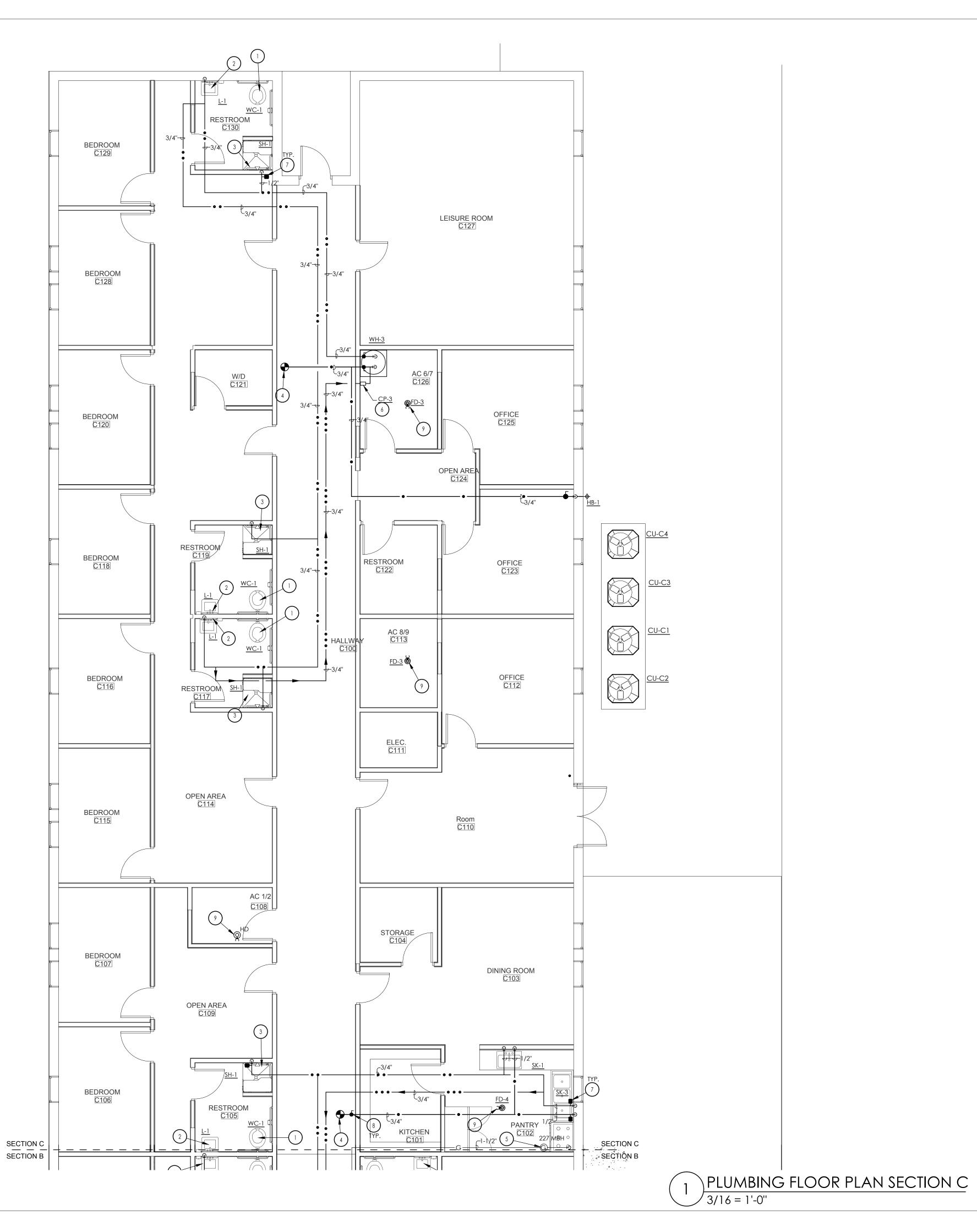


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' 3/16 = 1'-0"





NOTE: DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

KEYED NOTES: PLUMBING

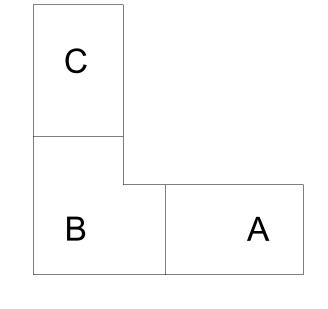
- INSTALL NEW WATER CLOSET CONNECT TO EXISTING COLD WATER LINE. WATER LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.
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- 3 INSTALL NEW SHOWER CONNECT TO EXISTING COLD WATER LINE. WATER LINES TO BE ADJUSTED AND EXTENDED AS REQUIRED FOR NEW FIXTURE.

4 CONNECT NEW CW TO EXISTING CW OF EQUAL OR GREATER SIZE. VERIFY SIZE AND LOCATION OF EXISTING CW PRIOR TO CONSTRUCTION.

- 5 AUTOMATIC GAS VALVE EXPOSED 6" BELOW CEILING HEIGHT. PROVIDED BY OWNER INSTALLED BY CONTRACTOR. INTERLOCK WITH HOOD SUPRESSION SYSTEM. PROVIDE UNION ON INLET AND OUTLET.
- 6 CIRCULATING PUMP.

7 WATER HAMMER ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12'x12" PAINTED TO MATCH CEILING.

- 8 BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
- 9 FLOOR DRAIN/ HUB DRAIN SHALL BE PRIMED WITH 1/2" COPPER WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.







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PLUMBING SYMBOL LEGEND								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION					
_ -	BALL VALVE		DOMESTIC COLD WATER					
	CHECK VALVE	••	DOMESTIC HOT WATER					
	GATE VALVE	•••	DOMESTIC HOT WATER RETURN					
	UNION		SANITARY SEWER VENT					
	DIRECTION OF FLOW		SANITARY WASTE LINE					
	WALL CLEANOUT	140°	140° HOT WATER					
 \$	FLOOR CLEANOUT YARD CLEANOUT		SANITARY DIRECTION OF FLOW					
	FLOOR SINK		BRANCH - TOP CONNECTION					
@	FLOOR DRAIN	+0	PIPE RISER					
- ₽\$	WALL HYDRANT OR HOSE BIBB	+-)	PIPE DROP					
FW	FILTERED WATER	•	POINT OF CONNECTION (APPROXIMATED FIELD VERIFY EXACT POINT OF CONNECTION)					

NOTE: 1. NOT ALL SYMBOLS USED ON THIS PROJECT 2. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDER SIDE OF WATER CLOSET OR DOOR OPENING.

3. INSTALL ADA APPROVED FLUSH VALVE HANDLE FOR ADA PLUMBING FIXTURES.

PLUMBING PIPING MATERIAL:

1. SANITARY DRAIN & VENT INSIDE BUILDING BELOW GRADE: SCHEDULE 40 PVC

2. SANITARY DRAIN OUTSIDE BUILDING: SCHEDULE 40 PVC

3. SANITARY DRAIN & VENT INSIDE BUILDING ABOVE GRADE: SCHEDULE 40 PVC

4. SANITARY DRAIN & VENT IN PLENUM CEILING: NO-HUB CAST IRON

ABBREV.	DESCRIPTION	
AC	ABOVE CEILING	
AFF	ABOVE FINISHED FLOOR	
ASA	AMERICAN STANDARDS ASSOCIATION	
ASME	AMERICAN SOICIETY OF MECHANICAL ENGINEERS	
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	
AW		
AWWA AV	AMERICAN WATER WORKS ASSOCIATION	
BTUH	BRITISH THERMAL UNIT PER HOUR	
CA	Compressed Air	
Cl	CASTIRON	
СО	CLEANOUT	
CU	COPPER	
DN EQ	EQUAL	
FCO	FLOOR CLEANOUT	
FF	FINISH FLOOR	
FG	FINISH GRADE	
FH	FIRE HYDRANT	
GAL	GALLON(S)	
GALV	GALVANIZED	
GW	GREASE WASTE	
HB	HOSE BIBB	
HP	HORESPOWER	
NIC	NOT IN CONTRACT	
NTS	NOT TO SCALE	
OC		
RD	ROOF DRAIN(S) REFER TO DETAIL 4 DRAWING P-6	
RE:4/P6 RO	REFER TO DETAIL 4 DRAWING P-6 REVERSE OSMOSIS	
SD	STORM DRAIN	
SPEC	SPECIFICATION	
TYP	TYPICAL	
UG	UNDERGROUND	
UL		
VTR V	VENT THRU ROOF VACUUM	
v W/	WITH	
WCO	WALL CLEAN OUT	
YCO	YARD CLEAN OUT	
HEDULE		
ILDULL		
REMA	\RKS	
LD40, 3 KW, 240V/1 NSION TANK.	Ø, ELECTRIC TANK TYPE.	
LD80, 10KW, 240V/ ANSION TANK.	IØ, ELECTRIC TANK TYPE.	

	ELECTRIC WATER HEATER SCHEDULE								
DESIG.	STORAGE GALLONS	RECOVERY G.P.H.	DEGREE RISE °F	WATER TEMP. LEAVING	WATER INLET	WATER OUTLET	REMARKS		
WH-1	40	23	80°	120°	3/4"	3/4"	RHEEM MODEL NO. ELD40, 3 KW, 240V/1Ø, ELECTRIC TANK TYPE. PROVIDE 5 GAL EXPANSION TANK.		
WH-2	80	51	80°	120°	3/4"	3/4"	RHEEM MODEL NO. ELD80, 10KW, 240V/1Ø, ELECTRIC TANK TYPE. PROVIDE 10 GAL EXPANSION TANK.		
WH-3	120	51	80°	120°	3/4"	3/4"	RHEEM MODEL NO. ELD120, 10KW, 240V/1Ø, ELECTRIC TANK TYPE. PROVIDE 10 GAL EXPANSION TANK.		

	RECIRCULATING PUMP SCHEDULE									
MA	RK	GPM	FEET HEAD	H.P.	RPM	VOLTS/PHASE	REMARKS			
CP CP CP	-2	0-20	0-11	1/25	3250	115 volts/Ø	EQUAL TO TACO MODEL 007-BF5 CARTRIDGE CIRCULATOR, MAINTENANCE I IN-LINE, SINGLE STAGE CIRCULATOR. PROVIDE TACO CLOCK TIMER AND TEMPERATURE AQUASTAT MODEL NO. 00 TIMERER			

			CONNECTIO	ON SIZE		
MARK	FIXTURE TYPE	San. Sewer	Vent	Cold Water	Hot Water	DESCRIPTION
WC-1	WATER CLOSET ADA	4"	2"	1/2"	-	AMERICAN STANDARD MODEL NO 2467.016. FLUSH TANK PRESSURE ASSISTED WATER CLOSE TWO-PIECE VITREOUS CHINA, ELONGATED RIM, 12" ROUGH-IN, 1.6 GPF. COMPLETE. WITH TA OPEN FRONT SEAT "BEMIS" MODEL NO 19555SSC. FLUSH LEVER MOUNTED ON APPROACH SIE
L-1	LAVATORY WALL HUNG STANDARD AND ADA REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	1/2"	AMERICAN STANDARD "LUCERNE" MODEL NO. 0356.421 (20x18) WALL HUNG LAVATORY. WI HIGH BACK, CONCEALED FRONT OVERFLOW. INCLUDES WALL HANGER. VITREOUS CHINA, W PROVIDE FAUCET EQUAL TO MOEN MODEL 8413, SINGLE HANDLE, VANDAL RESISTANT, ADA PROTECTIVE COVER ON P-TRAP AND STOPS.
SK-1	STAINLESS STEEL SINK ADA	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK BY ELKAY MODEL NO. LRAD1720-60 SELF RIMM STAINLESS STEEL MOUNTING CHANNELS, 18 GAUGE TYPE 302 CENTERED REAR DRAIN, COMP LK535AT10L2 FAUCET ADA. HOLE DRILLING 1. PROVIDE LKADOS CHROME PLATED BRASS OFF WHEELCHAIR USE.
SK-2	TWO-COMPARTMENT KITCHEN SINK ADA COMPLIANT	2"	2"	1/2"	1/2"	DOUBLE COMPARTMENT STAINLESS STEEL SINK BY ELKAY MODEL GECR 3321 MOUNT WITH STA CHANNELS, 18 GAUGE, TYPE 302, CENTERED REAR DRAIN, COMPLETE WITH MOEN TWO-HAN NO. 8799, WITH WRIST BLADE HANDLES. COORDINATE KNEE SPACE WITH SINK DRAIN LOCATIO PROVIDE PROTECTIVE COVER ON P-TRAP AND STOPS. PROVIDE LKADOS CHROME PLATED B WHEELCHAIR USE.
SK-3	3-COMP SINK	2"	2"	1/2"	1/2"	PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR PROVIDED \$3500.00 ALLOWANCE
SH-1	SHOWER HANDICAPPED REFER TO PLAN FOR LEFT OR RIGHT HAND CONFIGURATION	2"	2"	1/2"	1/2"	PROVIDE AND INSTALL BRADLEY HN300/TMV BARRIER-FREE SHOWER SYSTEM TO ALL BUILT-IN ADA SHOWER ROOMS. SYSTEM INCLUDES STANDARD FIXED DIRECTION ADJUSTABLE SPRAYHEAD. DIVERTER VALVE FOR EASY TRANSFER OF WATER FLOW BETWEEN FIXED AND HANDHELD SHOWER SPRAY, 60" STAINLESS STEEL FLEX HOSE HAND HELD SHOWER, L-SHAPED GRAB BAR, BARRIER FREE SEAT, SHOWER CURTAIN & 24" SLIDE BAR.
EDF-1	ELECTRIC WATER COOLER W/ Water Refilling Station REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	-	BI-LEVEL ELECTRIC WATER COOLER SHALL BE "ELKAY" MODEL NO. LZSTL8WSVRSK, WITH Elkay E CAPACITY OF 8.0 GALLONS, STAINLESS STEEL BASIN WITH INTEGRAL DRAIN GRID AND EMBOS ADA COMPLIANT, WITH ZURN CARRIER MODEL NO. Z-1225, WITH APRON MODEL NO. LKAPR- AND ADA.
IMC	ICE MAKER CONNECTION BOX	-	-	1/2"	-	CONNECTION BOX EQUAL TO GUY GRAY NO. BIM875 PREFABRICATED RECESSED BOX WITH COMPRESSION ANGLE VALVE.
HB-1	HOSE BIB EXTERIOR GENERAL USE	-	-	3/4"	-	MILD TEMPERATURE WALL HYDRANT SHALL BE WOODFORD MODEL B65 3/4" INLET WITH BRONZE CASING, BRONZE FACE AND STRAIGHT INLET CONNECTION WITH INTEGRAL BACKFLOW PREVENTER.
FS-1	FLOOR SINK	3"	2"	-	-	EQUAL TO ZURN PART # FD2375-NH3-T, 12" SQUARE TOP, WITH 6 DEEP SUMP CAST IRON BOD INTERIOR COATING. 3/4" GRATE, ANTI-SPLASH DOME STRAINER.
FD-1	RESTROOM FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-6A-Y-50, CAST IRON BODY WITH CLAMP RING, FLANGE, AE HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.
FD-2	SHOWER FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30002-6A-Y-50, CAST IRON BODY WITH CLAMP RING, FLANGE, AD HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.
FD-3	FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-7E2-Y, COATED CAST IRON BODY WITH CLAMP RING, TWO DRAINAGE FLANGE, ADJUSTABLE NIKALOY FUNNEL STRAINER .
FD-4	TRACTOR GRATE FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-7E-Y-50, COATED CAST IRON BODY WITH CLAMP RING, TWO DRAINAGE FLANGE, WITH 7" TRACTOR GRATE STRAINER AND 1/2" PRIMER TAP. HUB OUTLET W

<u>NOTES:</u>

1. ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.

2. PROVIDE SINGLE FIXTURE WATER HAMMER ARRESTORS EQUAL TO MINI-RESTER/HYDRA-RESTER SIOUX CHIEF. FOR ALL PLUMBING FIXTURES IN THE WATER SUPPLY SYSTEM.

3. INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX.





T, 16-1/2" RIM HEIGHT, NK FITTINGS AND BOLT CAPS, DE OF THE FIXTURE.
TH ANTI- SPLASH RIM AND /ITH ONE HOLE CENTER SET. APPROVED. PROVIDE
NG, TOP MOUNT WITH LETE WITH ELKAY MODEL SET TAILPIECE FOR
NINLESS STEEL MOUNTING DLE KITCHEN FAUCET MODEL DN FOR ADA COMPLIANCE. RASS OFFSET TAILPIECE FOR
ZH2O Water Refilling Station, SED BUBBLER PAD, LEAD FREE EZL TO COMPLY WITH TAS
y w/ acid resistant
DJUSTABLE NIKALOY STRAINER,
JUSTABLE NIKALOY STRAINER,
PIECE BODY WITH DOUBLE
O PIECE BODY WITH DOUBLE /ITH GASKET.

PLUMBING GENERAL NOTES: (ALL SHEETS)

- A. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- B. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH ALL ELECTRICAL WORK, MECH'L WORK AND STRUCTURAL MEMBERS. COORDINATE WITH MECHANICAL, ELEC'L AND STRUCTURAL FOR PROPER CLEARANCES. CONTRACTOR SHALL COORDINATE AND ESTABLISH A SEQUENCE OF INSTALLATION WITH OTHER TRADES WORKING ON THE PROJECT.
- C. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION OF WORK. D. SLEEVE ALL OUTSIDE WALL, FLOOR SLAB, AND GRADE BEAM PENETRATIONS
- PER DETAILS AND PER CODE. E. LOCATE ALL PLUMBING VENTS TO ROOF (VTR) SO THAT THEY TERMINATE
- A MINIMUM OF 1'-0" AWAY FROM ANY VERTICAL SURFACE AND 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.
- F. RECORD INVERT ELEVATIONS OF ALL YCO'S ON "AS-BUILT" DRAWINGS. G. ALL SANITARY SEWER PIPING 4" AND LARGER SHALL BE INSTALLED AT 1/8" PER FT. MINIMUM. ALL SANITARY SEWER PIPING 3" AND SMALLER SHALL BE INSTALLED AT 1/4" PER FT. MINIMUM.
- H. PLUMBING CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTIONS FEES, PERMITS, TESTS AND INSPECTIONS. FURNISH 3 COPIES OF INSPECTION CERTIFICATE BEFORE REQUESTING FINAL PAYMENT. PLUMBING CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION, VERIFICATION AND CONNECTION OF ALL UTILITIES TO SITE UTILITY STUB-OUTS. REFERENCE ASSOCIATED ARCHITECTURAL, ELECTRICAL, MECHANICAL, STRUCTURAL, KITCHEN AND CIVIL DRAWINGS FOR RELATED INFORMATION.
- I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS.
- J. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS.
- K. PRESSURE TEST ALL INSTALLATIONS PRIOR TO CONNECTING EQUIPMENTS.
- L. LABEL ALL PIPING PER ANSI STANDARD.
- M. INSULATE ALL PIPING AS STATED IN SPECIFICATIONS.
- N. INSTALL SHUT-OFF VALVES (STOPS) AND PIPING UNIONS AT EACH PIECE OF EQUIPMENT, PLUMBING FIXTURES, AND BRANCHES TO FIXTURE GROUPS. VALVES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION, OR ACCESS PANELS PROVIDED AS NECESSARY.
- O. PROVIDE ANY BACK FLOW PREVENTION DEVICE REQUIRED BY CODE OR GOVERNING AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY OR LOCAL AGENCIES AND INCLUDE COST OF SAME IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- P. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
- Q. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.
- R. ALTERNATE MATERIALS NOT IDENTIFIED IN SPECIFICATIONS/DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
- S. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION.
- T. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE PLUMBING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- U. EVERY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN SHALL BE SERVED BY AN AUTOMATIC TRAP PRIMER.
- V. REFER TO KITCHEN EQUIPMENT PLAN AND SPECIFICATIONS. INFORMATION SHOWS EXACT LOCATIONS AND NECESSARY PLUMBING REQUIREMENTS FOR THE KITCHEN EQUIPMENT. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
- W. ALL PLUMBING FIXTURES IDENTIFIED SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. X. INSTALL VACUUM BREAKERS AT ALL THREADED HOSE CONNECTIONS
- AND AT ALL CONNECTIONS WHERE CROSS-CONTAMINATION COULD OCCUR. Y. PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL EQUIPMENT.
- Z. CONTACT ARCHITECT BEFORE PENETRATING STRUCTURAL ELEMENTS WITH PIPING, EQUIPMENT, ETC.
- A'. VERIFY EXACT LOCATIONS OF "HVAC" EQUIPMENT WITH MECHANICAL DRAWINGS. VERIFY PRIOR TO ANY INSTALLATION THAT THERE IS SUFFICIENT SPACE IN WALLS, CHASES AND CEILING CAVITIES FOR PLUMBING SYSTEM PIPING, VENTS, EQUIPMENT, ETC.
- B'. PROVIDE ACOUST-O-PLUMB PIPE CLAMPS ON ALL DOMESTIC WATER PIPES 1" AND SMALLER IN SIZE. REFER TO FLOOR PLANS AND RISER DIAGRAMS.
- C'. FIRESTOP ALL PENETRATIONS THRU FIRE-RATED ASSEMBLIES. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.
- D'. CAULK AROUND ALL PLUMBING FIXTURES. CAULK COLOR TO MATCH FIXTURE COLOR.
- E'. SEAL ALL EXTERIOR WALL AND ROOF PENETRATIONS WATER TIGHT.
- F'. PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:
- ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.
- ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.
- NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

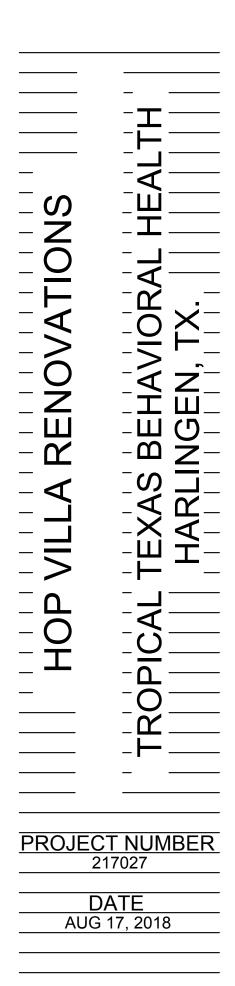




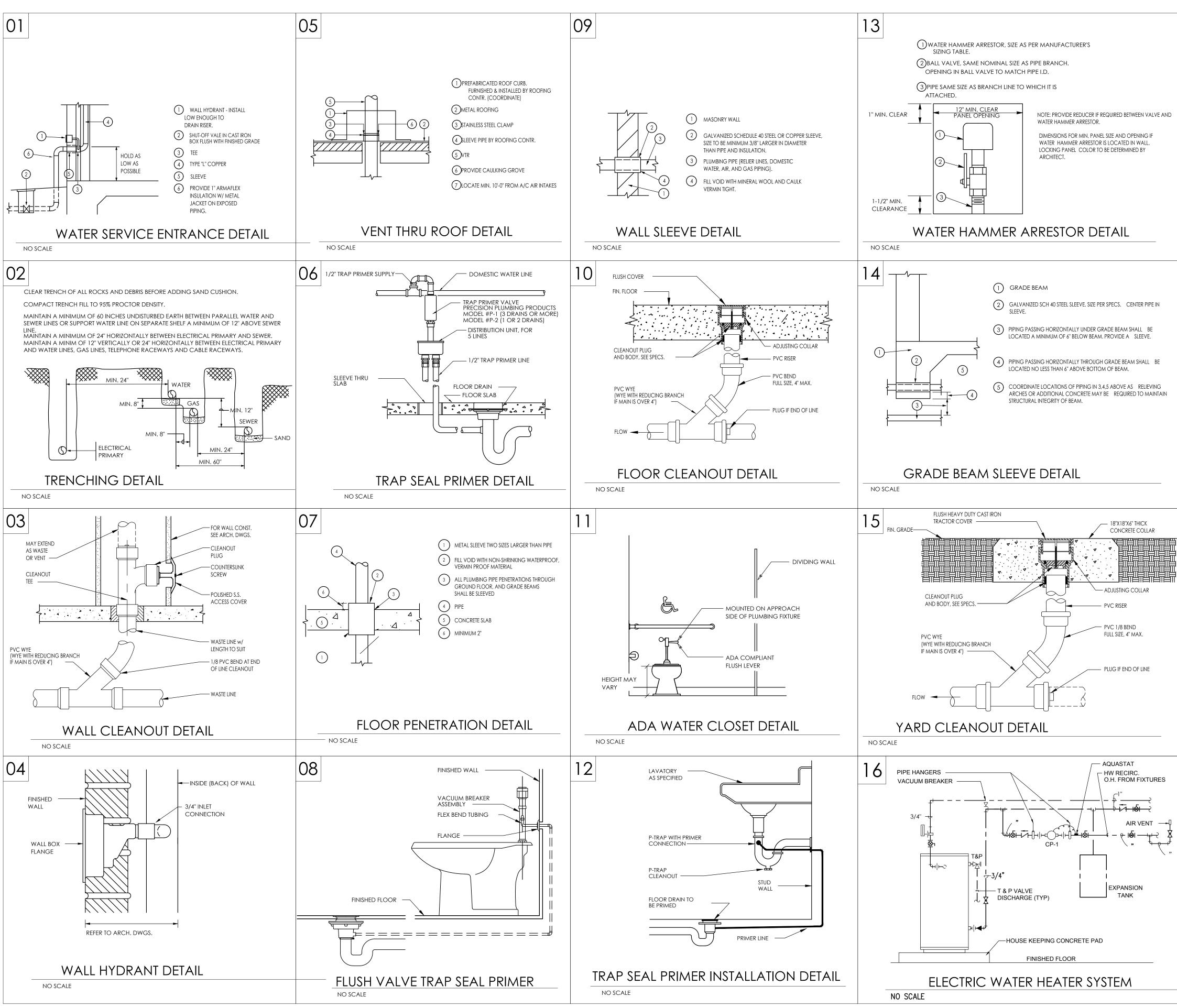
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FINALS - 100%

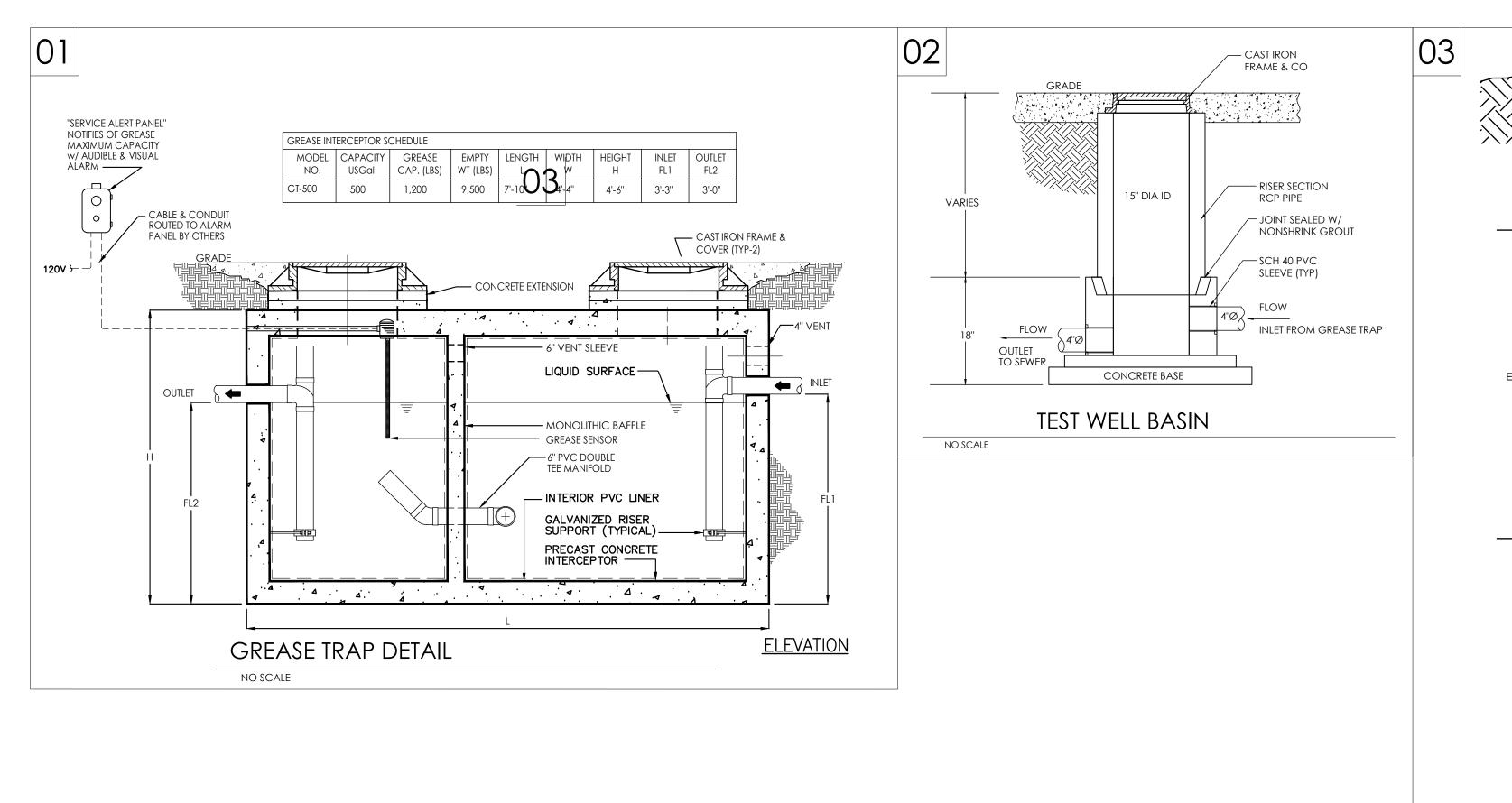


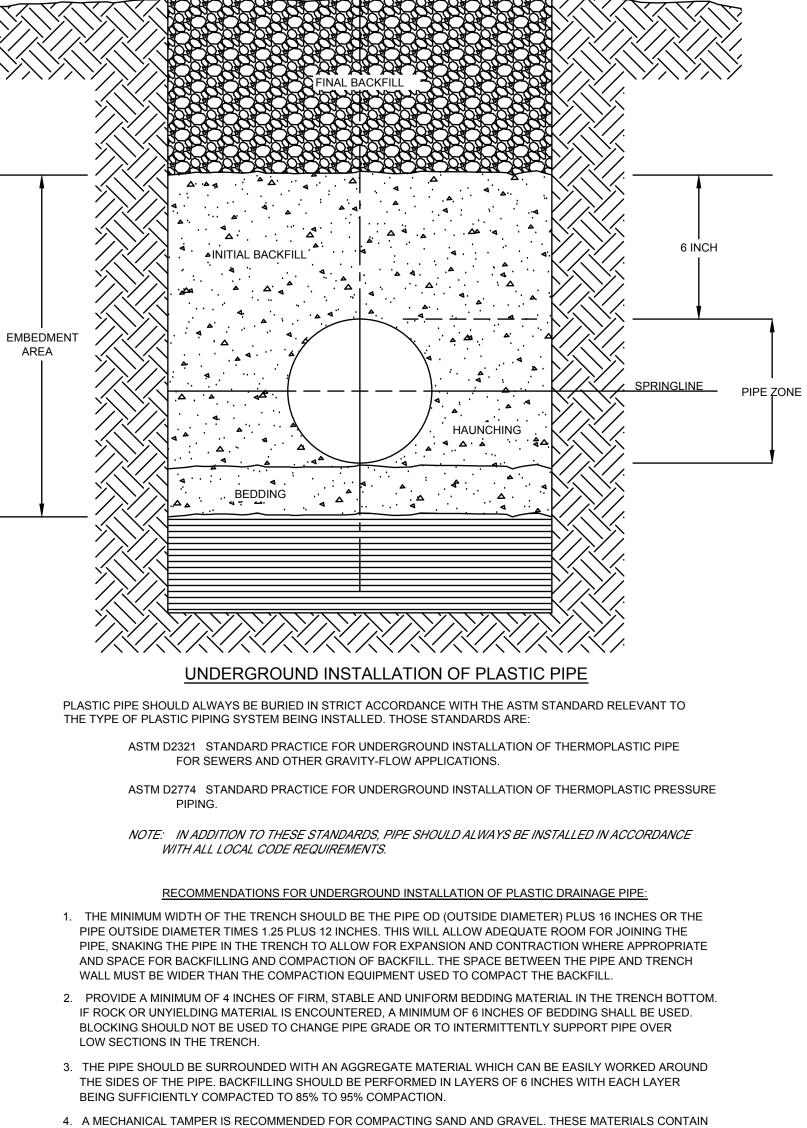






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- EXCAVATED TRENCH WIDTH

- BY HAND.

NO SCALE



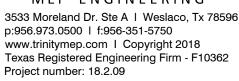
FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE

5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.

6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS





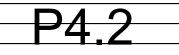


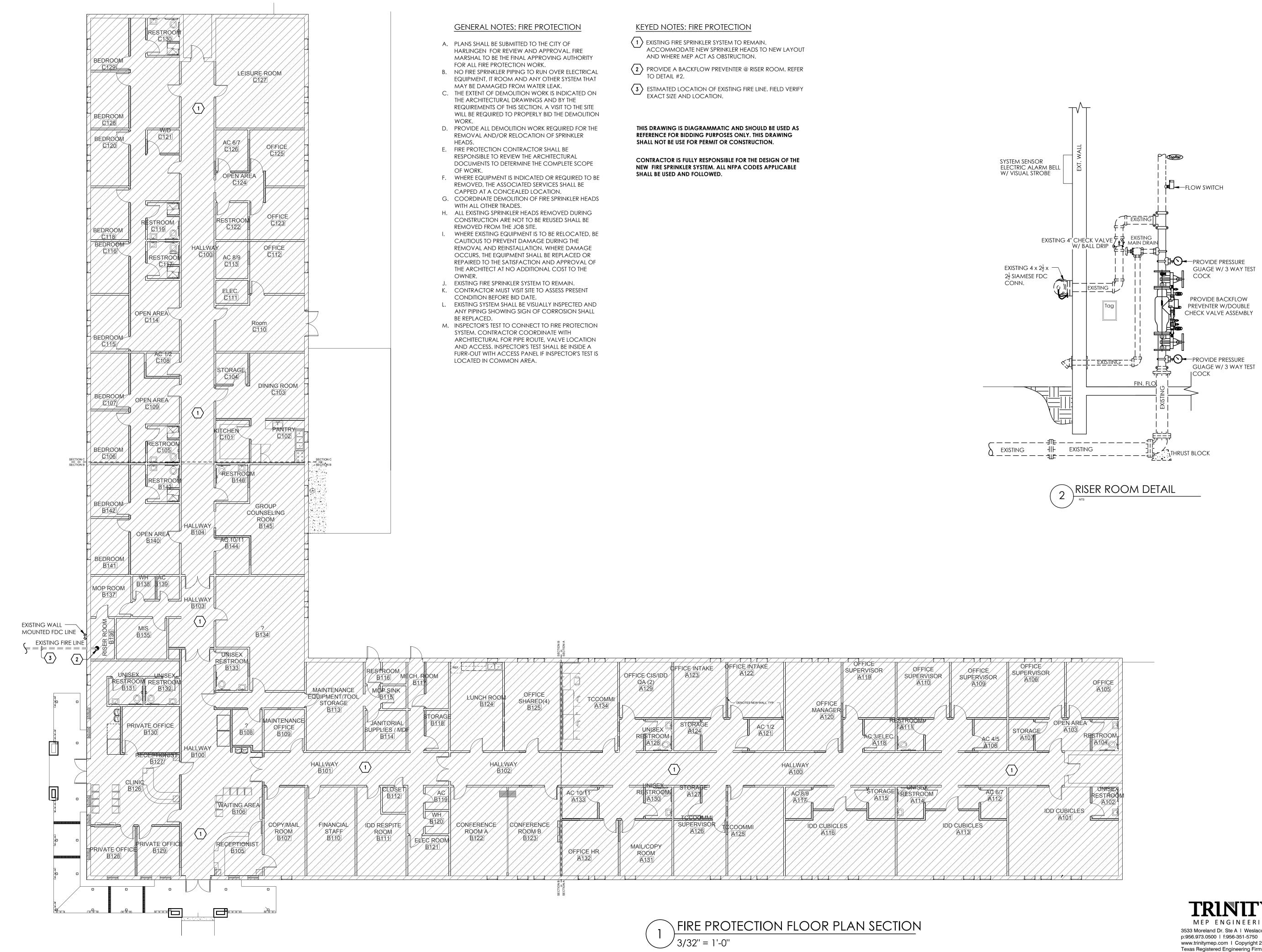
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DATE AUG 17, 2018

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