

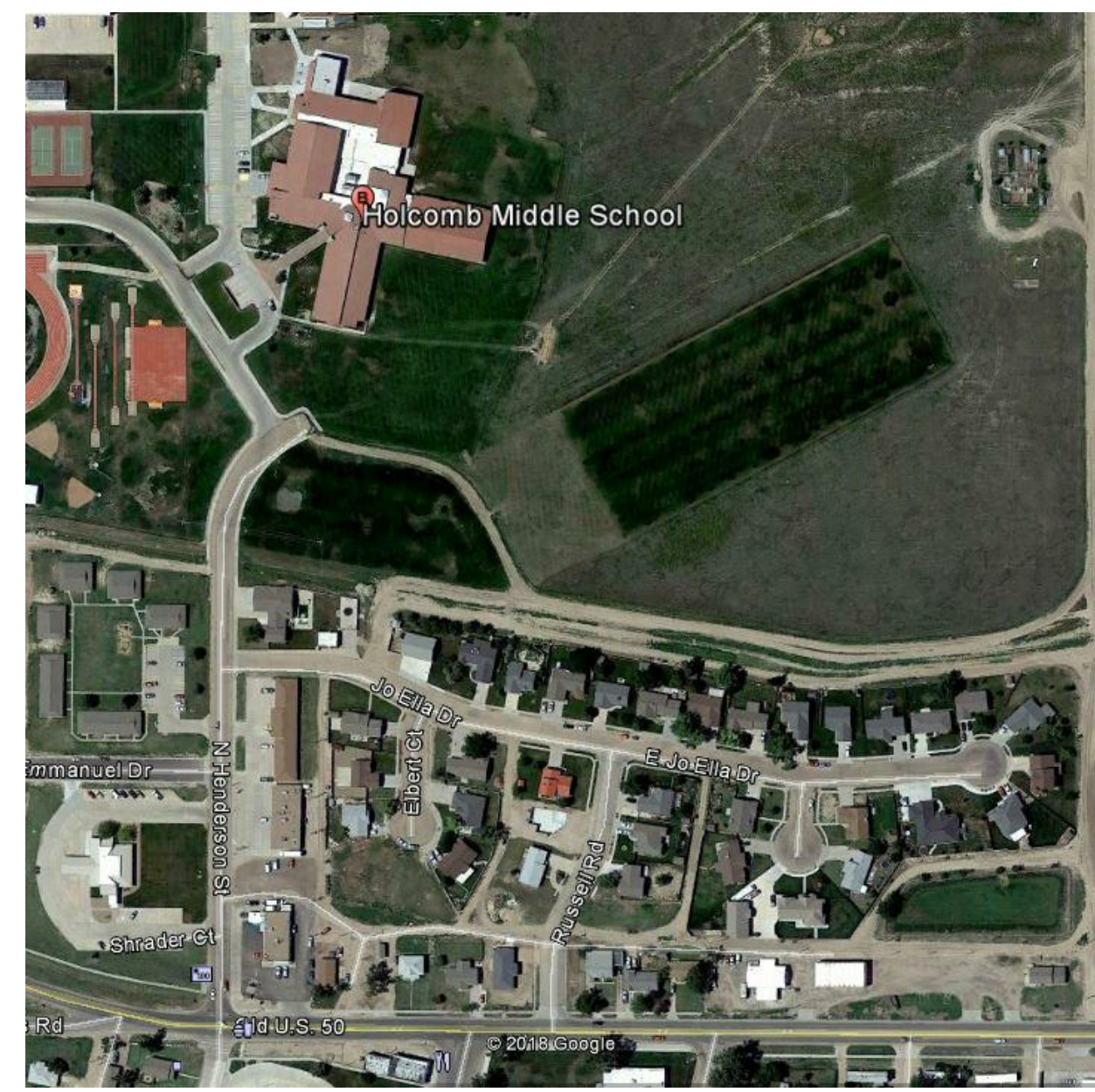
SAFETY AND SECURITY UPGRADES TO WILEY ELEMENTARY, HOLMB ELEMENTARY & HOLCOMB MIDDLE SCHOOL



Wiley Elementary School (WES)
204 S. Henderson
Holcomb, KS 67851



Holcomb Elementary School (HES)
200 N. Main St.
Holcomb, KS 67851



Holcomb Middle School (HMS)
500 N. Henderson St.
Holcomb, KS 67851

Owner



USD 363 Holcomb School District
305 Wiley St., P.O. Box 8
Holcomb, KS 67851
PH. (620) 227-2629
Dr. Scott Meyers - Superintendent of Schools

Architect



Gibson Mancini Carmichael & Nelson, PA
115 East Laurel St.
Garden City, Kansas 67846
PH. (620) 276-3244
Stewart Nelson

Construction Manager



Coonrod & Associates
3550 S. Hoover
Wichita, KS 67215
PH. (316) 9428430

Structural Engineer



Dudley Williams & Associates, PA
230 Laura, Suite 200
Wichita, KS 67211
PH. (316) 263-7591

Mechanical/Electrical Engineer



Professional Engineering Consultants
303 S. Topeka St.
Wichita, KS 67202
PH. (316) 262-2691

ABBREVIATIONS

ACOUS.	ACOUSTICAL	AD.	AREA DRAIN	A.F.C.	ABOVE FINISH CEILING	A.F.F.	ABOVE FINISH FLOOR	ADJ.	ADJUSTABLE	AGGR.	AGGREGATE	A.H.U.	AIR HANDLING UNIT	AL.	ALUMINUM	ALT.	ALTERNATE	APPROX.	APPROXIMATE	ARCH.	ARCHITECTURAL	ASB.	ASBESTOS	ASPH.	ASPHALT	BD.	BOARD	B.F.F.	BELOW FINISH FLOOR	BITUM.	BITUMINOUS	BLDG.	BUILDING	BLK.	BLOCK	BLKG.	BLOCKING	BM.	BEAM	BOTT.	BOTTOM	CAB.	CABINET	C.B.	CATCH BASIN	C. & G.	CURB AND GUTTER	CEM.	CEMENT	CER.	CERAMIC	C.I.	CAST IRON	C.J.	CONTROL JOINT	CLG.	CEILING	CLO.	CLOSET	CLR.	CLEAR	C.M.U.	CONCRETE MASONRY UNIT	COL.	COLUMN	CONC.	CONCRETE	CONN.	CONNECTION	CONSTR.	CONSTRUCTION	CONT.	CONTINUOUS	CORR.	CORRIDOR	CTSK.	COUNTERSUNK	CTR.	CENTER	DBL.	DOUBLE	D.F.	DRINKING FOUNTAIN	DET.	DETAIL	DIA.	DIAMETER	DIM.	DIMENSION	DISP.	DISPENSER	DN.	DOWN	DR.	DOOR	DWR.	DRAWER	DS.	DOWNSPOUT	D.S.P.	DRY STANDPIPE	DWG.	DRAWING	E.	EAST	E.A.	EACH	E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	E.J.	EXPANSION JOINT	ELEC.	ELECTRICAL	EL.	ELEVATION	ELEV.	ELEVATOR	EMER.	EMERGENCY	ENCL.	ENCLOSURE	E.P.	ELECTRICAL PANELBOARD	EQ.	EQUAL	EQUIP.	EQUIPMENT	EXST.	EXISTING	EXPO.	EXPOSED	EXP.	EXPANSION	EXT.	EXTERIOR	F.A.	FIRE ALARM	F.B.	FLAT BAR	F.C.U.	FAN COIL UNIT	F.D.	FLOOR DRAIN	FDN.	FOUNDATION	F.E.	FIRE EXTINGUISHER	F.E.C.	FIRE EXTINGUISHER CABINET	F.F.S.	FINISH FLOOR SEPARATIONS	F.H.C.	FIRE HOSE CABINET	FIN.	FINISH	FLR.	FLOOR	FLASH.	FLASHING	FLUOR.	FLUORESCENT	F.O.C.	FACE OF CONCRETE	F.O.F.	FACE OF FINISH	F.O.S.	FACE OF STUDS	F.O.W.	FACE OF WALL	FRF.	FIREPROOF	F.S.	FLOOR SIZE	FT.	FOOT OR FEET	FTG.	FOOTING	FURR.	FURRING	FUT.	FUTURE	GA.	GALV.	GALVANIZED	G.B.	GRAB BAR	GL.	GLASS	GND.	GROUND	GR.	GRADE	GYP.	GYP.SUM	GWB.	GYP.SUM WALL BOARD	H.B.	HOSE BIBB	H.C.	HOLLOW CORE	HDWD.	HARDWOOD	H.M.	HOLLOW METAL	HORIZ.	HORIZONTAL	H.P.L.	HIGH PRESSURE LAMINATE	HR.	HOUR	HT.	HEIGHT	I.D.	INSIDE DIAMETER (DIM)	INSUL.	INSULATION	INT.	INTERIOR	JAN.	JANITOR	JT.	JOINT	K.O.	KNOCK-OUT	MANUF.	MANUFACTURER	MAX.	MAXIMUM	MECH.	MECHANICAL	MEMB.	MEMBRANE	MFR.	MANUFACTURER	MH.	MANHOLE	MIN.	MINIMUM	MIR.	MIRROR	MISC.	MISCELLANEOUS	M.L.	MAIN LEVEL	M.O.	MASONRY OPENING	M.SRY.	MASONRY	MTD.	MOUNTED	MUL.	MULLION	MANUF.	MANUFACTURER	MECH.	MECHANICAL	MEMB.	MEMBRANE	MFR.	MANUFACTURER	MH.	MANHOLE	MIN.	MINIMUM	MIR.	MIRROR	MISC.	MISCELLANEOUS	M.L.	MAIN LEVEL	M.O.	MASONRY OPENING	M.SRY.	MASONRY	MTD.	MOUNTED	MTL.	METAL	MUL.	MULLION	MANUF.	MANUFACTURER	MECH.	MECHANICAL	MEMB.	MEMBRANE	MFR.	MANUFACTURER	MH.	MANHOLE	MIN.	MINIMUM	MIR.	MIRROR	MISC.	MISCELLANEOUS	M.L.	MAIN LEVEL	M.O.	MASONRY OPENING	M.SRY.	MASONRY	MTD.	MOUNTED	MTL.	METAL	MUL.	MULLION	R.	RADIUS	R.D.	ROOF DRAIN	R.M.	REGISTER	REF.	REFERENCE	REFR.	REFRIGERATOR	RGTR.	REGISTER	REINF.	REINFORCED	REQD.	REQUIRED	RESIL.	RESILIENT	RM.	ROOM	R.O.	ROUGH OPENING	RWD.	REDWOOD	R.W.L.	RAIN WATER LEADER	S.	SOUTH	S.C.	SOLID CORE	S.C.D.	SEAT COVER DISPENSER	SCHED.	SCHEDULE	S.D.	SOAP DISPENSER	SECT.	SECTION	SELF.	SELF	SHWR.	SHOWER	SHT.	SHEET	SHLF.	SHELF	SHLV.	SHELVES	SM.	SIMILAR	S.N.D.	SANITARY NAPKIN DISPENSER	S.N.R.	SANITARY NAPKIN RECEPTACLE	SPEC.	SPECIFICATION	SQ.	SQUARE	S.S.	STAINLESS STEEL	S.S.K.	SERVICE SINK	STA.	STATION	STD.	STANDARD	STL.	STEEL	STOR.	STORAGE	STRUC.	STRUCTURAL	SUSP.	SUSPENDED	S.V.	SHEET VINYL	SYM.	SYMMETRICAL	T.B.	TOWER BAR	T.C.	TOP OF CURB	TEL.	TELEPHONE	TER.	TERRAZZO	T&G.	TONGUE AND GROOVE	THK.	THICK	T.P.	TOP OF PAVEMENT	T.P.D.	TOILET PAPER DISPENSER	T.S.	TOP OF SLAB	T.V.	TELEVISION	T.W.	TOP OF WALL	TYP.	TYPICAL	UNF.	UNFINISHED	U.O.N.	UNLESS OTHERWISE NOTED	UR.	URINAL	V.C.T.	VINYL COMPOSITION TILE	VERT.	VERTICAL	VEST.	VESTIBULE	W.	WEST	WI.	WITH	W.C.	WATER CLOSET	WD.	WOOD	W.O.	WHERE OCCURS	WO.	WITHOUT	WP.	WATERPROOF	WSCT.	WAINSCOT	WT.	WEIGHT
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MATERIAL SYMBOLS

[Symbol]	ACOUST. CLG. TILE	[Symbol]	WOOD FRAMING OR BLOCKING
[Symbol]	ASPHALT PAVING	[Symbol]	CONCRETE (ELEVATION/SECTION)
[Symbol]	EARTH	[Symbol]	FINISH WOOD
[Symbol]	GLASS - (ELEV. / SECT.)	[Symbol]	GRANULAR FILL / DRAINAGE MATERIAL
[Symbol]	GROUT	[Symbol]	GYP. BD. - (ELEV. / SECT.)
[Symbol]	INSULATION - FOUNDATION	[Symbol]	INSULATION - ROOF
[Symbol]	BATT INSULATION	[Symbol]	RIGID INSULATION
[Symbol]	CONCRETE MASONRY UNIT-SECTION	[Symbol]	PARTICLE BOARD
[Symbol]	PLYWOOD	[Symbol]	PRECAST CONC./P.C. PLASTER/CUT STONE
[Symbol]	SAND	[Symbol]	STEEL
[Symbol]	TILE	[Symbol]	TILE
[Symbol]	WALL SECTION	[Symbol]	EXTERIOR ELEVATION
[Symbol]	WALL SECTION	[Symbol]	INTERIOR ELEVATION
[Symbol]	WALL SECTION	[Symbol]	WALL SECTION

DRAWING SHEET INDEX

ARCHITECTURAL GENERAL	STRUCTURAL
G100 TITLE SHEET	S001 GENERAL NOTES
G101 CODE ANALYSIS	S101 ROOF FRAMING AND FOUNDATION PLANS
G102 ADA STANDARDS	S201 CMU DETAILS
G103 ADA STANDARDS	S301 FOUNDATION DETAILS
	S401 FRAMING SECTIONS & DETAILS
	S402 FRAMING SECTIONS & DETAILS
ARCHITECTURAL	MECHANICAL
AS101 ARCHITECTURAL SITE PLAN	M0.1 MECHANICAL COVER SHEET
AD100 HES DEMO PLAN	M1.1 WILEY ELEMENTARY HVAC PLANS
A100 OVERALL PLAN	M2.1 ELEMENTARY SCHOOL MECH DEMO
A101 HES FLOOR PLANS	M2.2 ELEMENTARY SCHOOL MECH PLAN
A101.1 WES DEMO & RCP PLANS	M3.1 MECHANICAL DETAILS & SCHEDULES
A101.2 HES & HMS DEMO & RCP PLANS	
A102 ROOF PLAN	
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A301 SECTIONS	
A310 WALL SECTIONS	
A400 INTERIOR ELEVATIONS	
A401 LARGE-SCALE VIEWS	
A501 DETAILS	
A601 SCHEDULES	
ARCHITECTURAL	ELECTRICAL
E2.1 ELECTRICAL LEAD SHEET	
E2.2 ELECTRICAL SCHEDULES	
E1.1 ELECTRICAL DETAILS	
E2.1 ELEMENTARY SCHOOL DEMO PLAN	
E2.2 ELEMENTARY SCHOOL DEMO PLAN	
OFFICE AREA	
E2.3 MIDDLE SCHOOL & WILEY ELEMENTARY DEMO PLANS	
E4.1 ELEMENTARY SCHOOL POWER PLAN	
E4.3 MIDDLE SCHOOL & WILEY ELEMENTARY ELECT PLANS	
E4.2 NOT USED	
E5.1 ELEMENTARY SCHOOL LIGHTING PLAN	

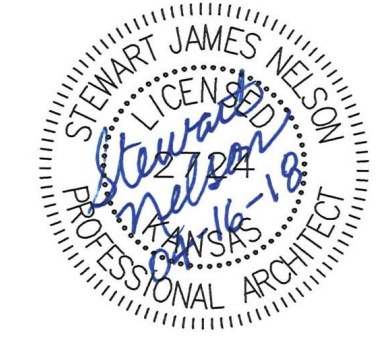
SAFETY AND SECURITY UPGRADES TO
WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
HOLCOMB MIDDLE SCHOOL
HOLCOMB, KANSAS

SHEET TITLE:
TITLE SHEET

G100

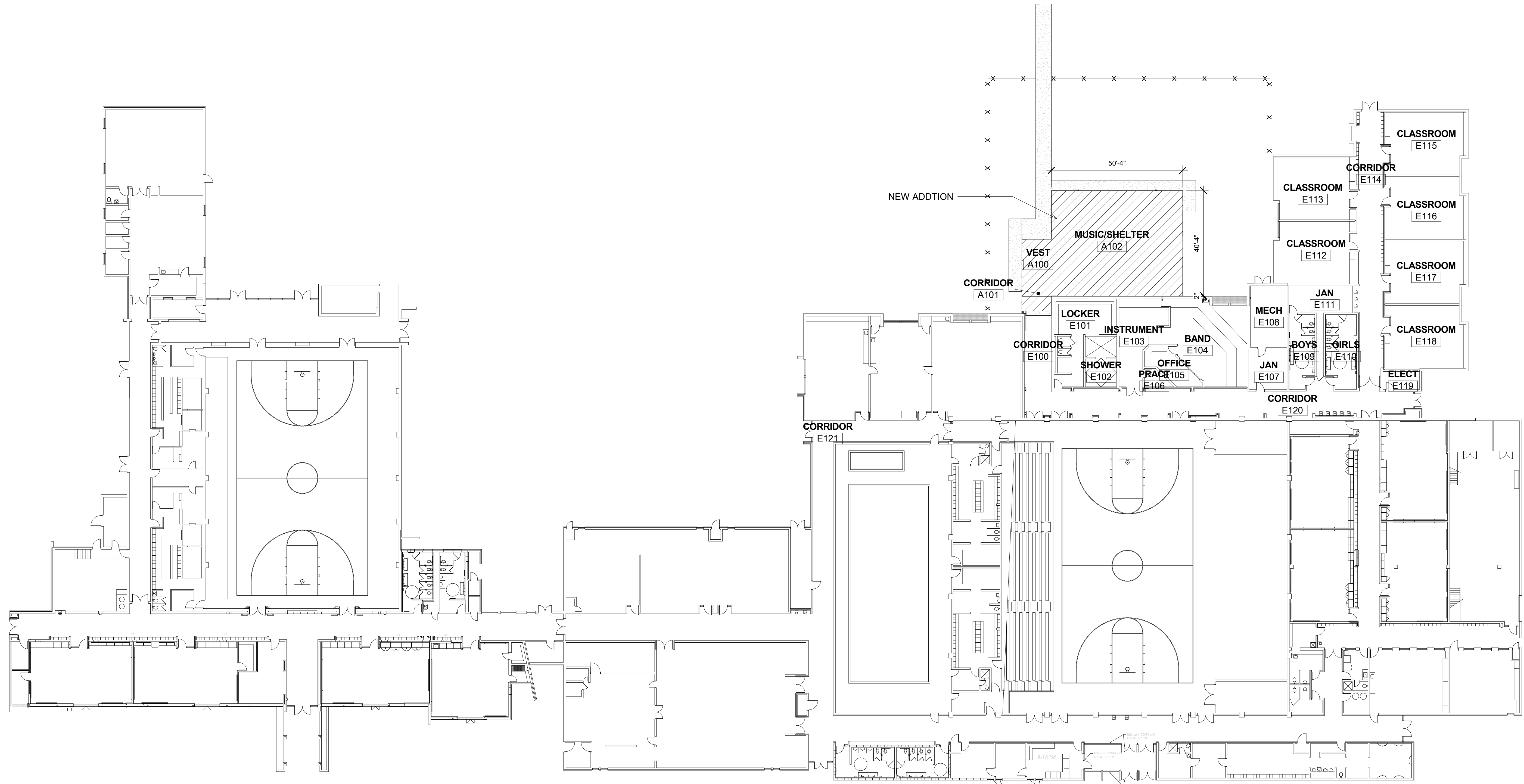
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2017-21

GIBSON, MANCINI, CARMICHAEL & NELSON
ARCHITECTS • PLANNERS
115 EAST LAUREL ST.
GARDEN CITY, KS 67846
(620) 276-3244
WWW.GIPSONMNCN.COM



1 HES FLOOR PLAN
1" = 20'-0"



2017-21



WILEY ELEMENTARY, HOLCOMB ELEMENTARY & HOLCOMB MIDDLE SCHOOL
HOLCOMB, KANSAS

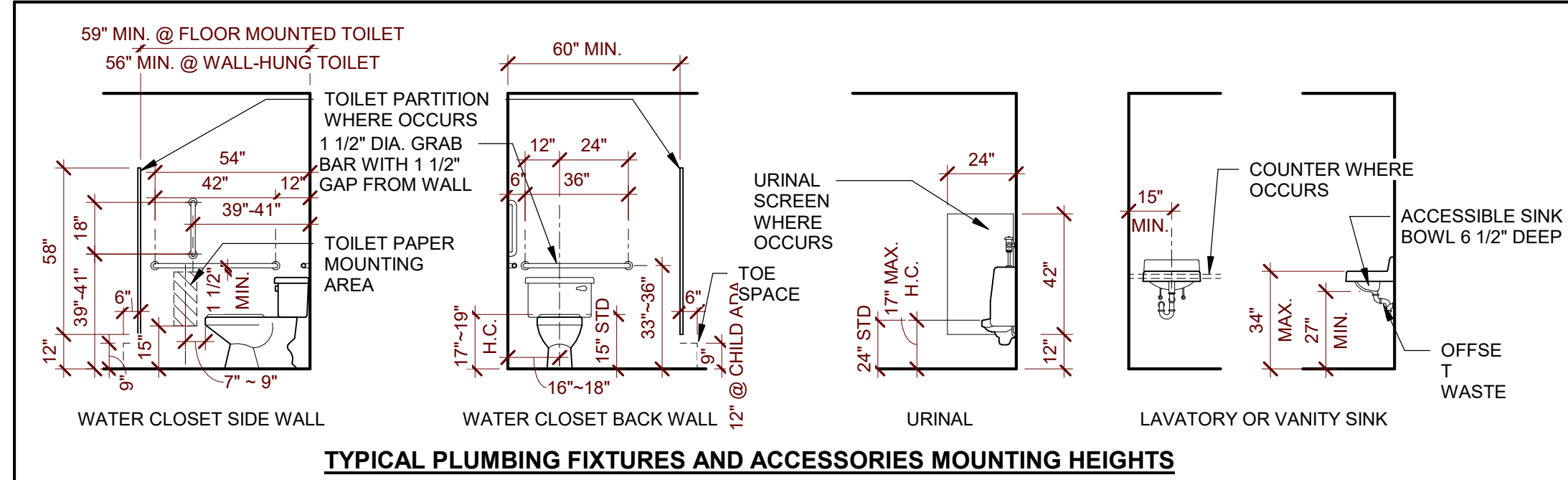
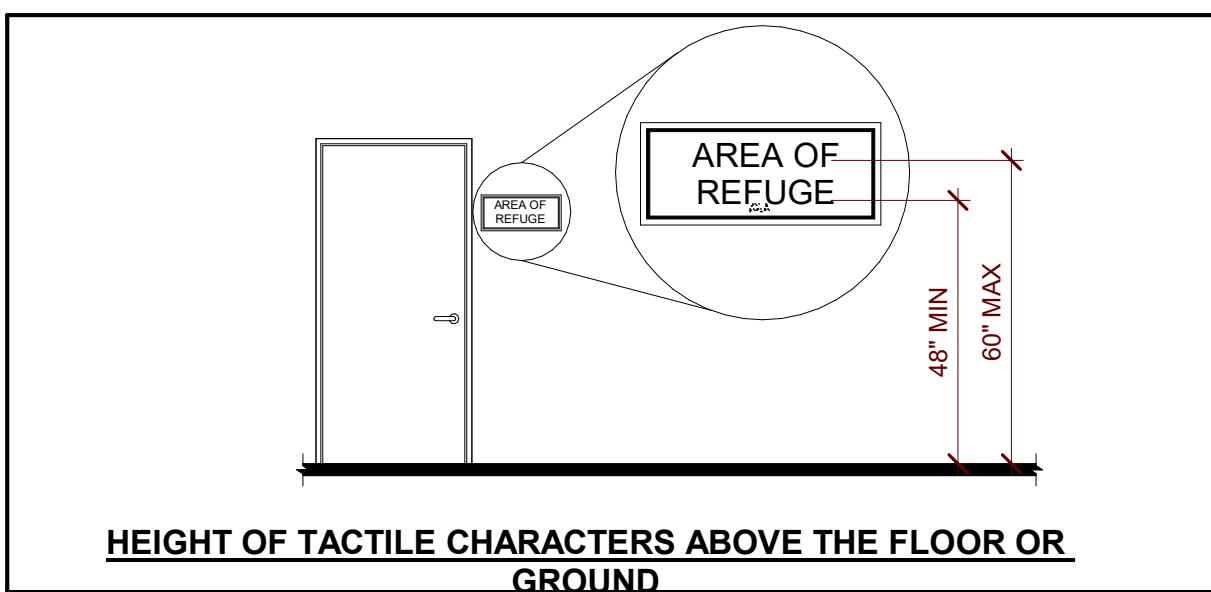
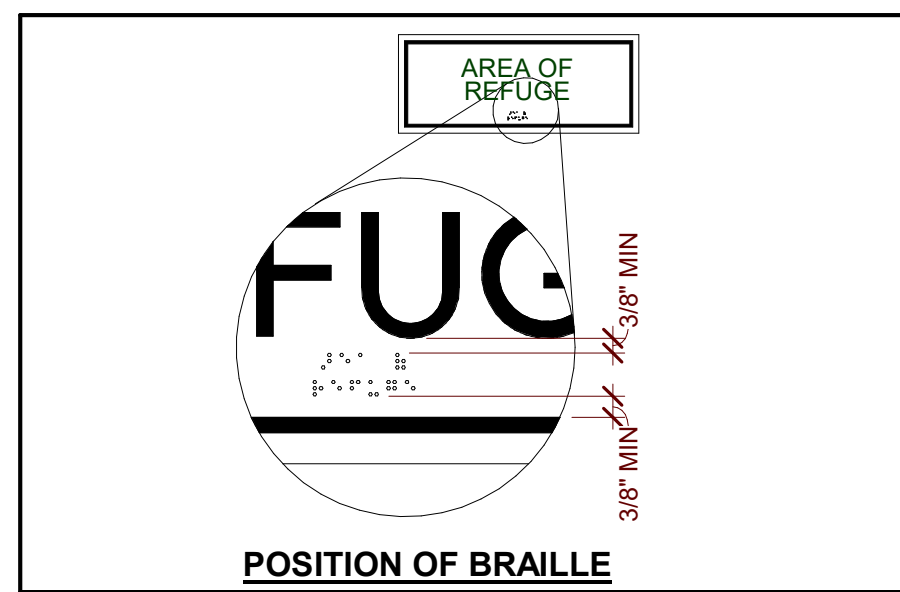
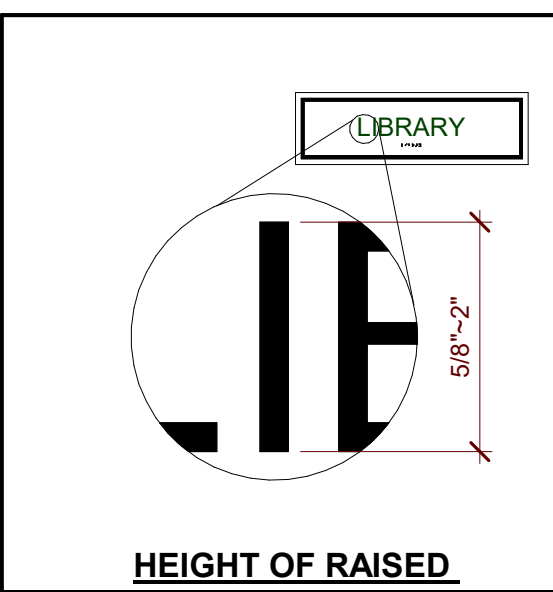
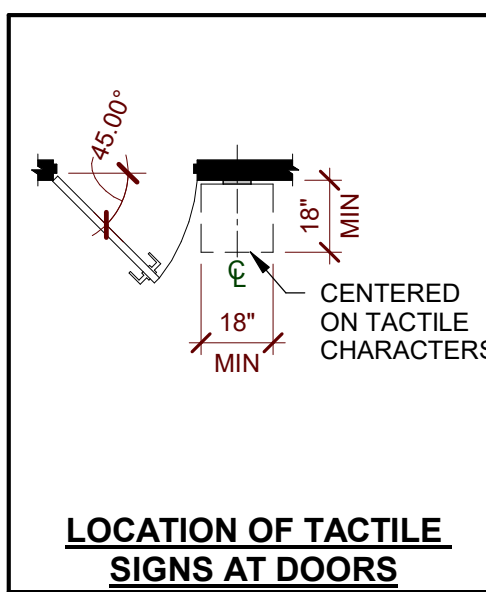
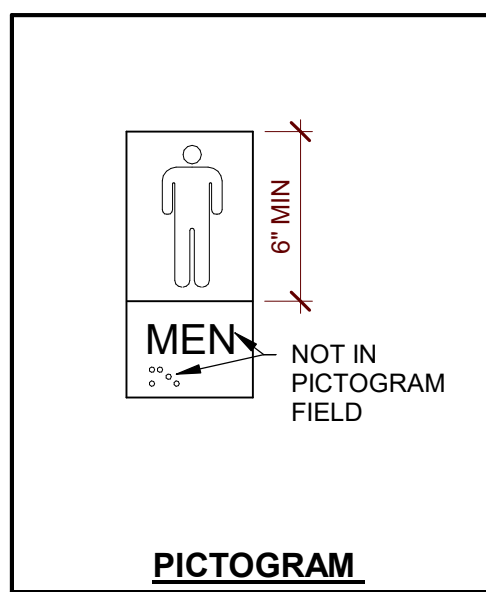
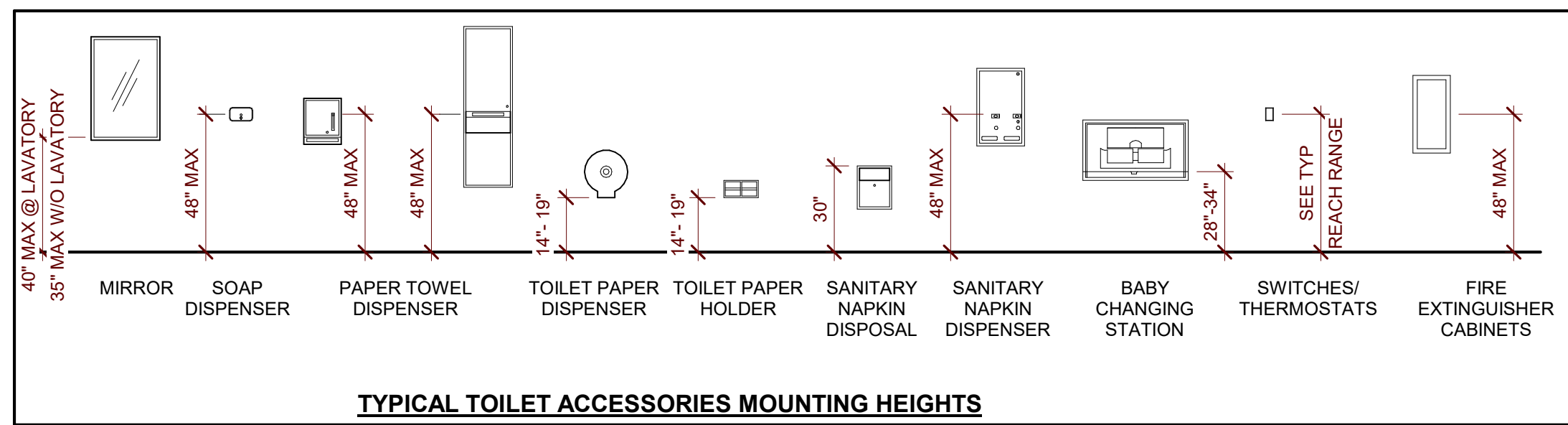
SHEET TITLE:
CODE ANALYSIS

DATE:
4-16-2018

G101

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4/17/2018 8:45:53 AM



REACH (FORWARD & SIDE)

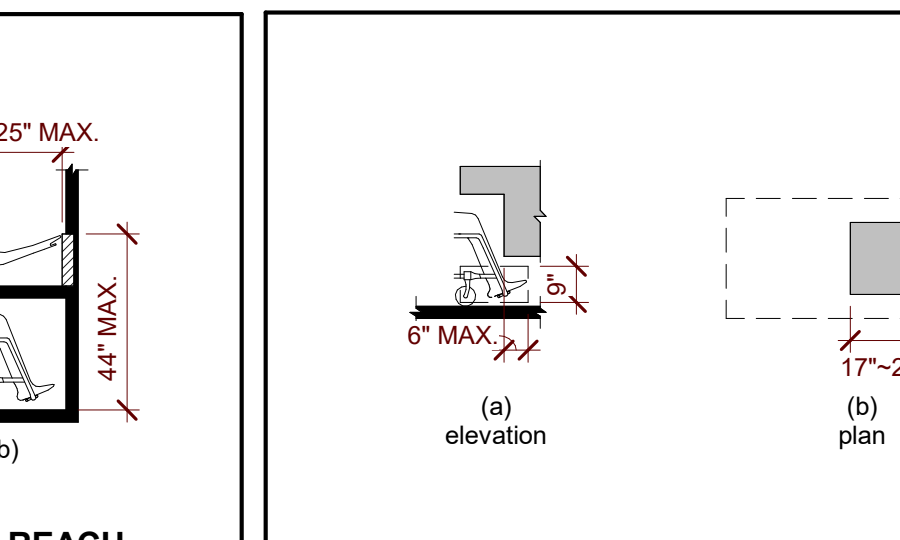
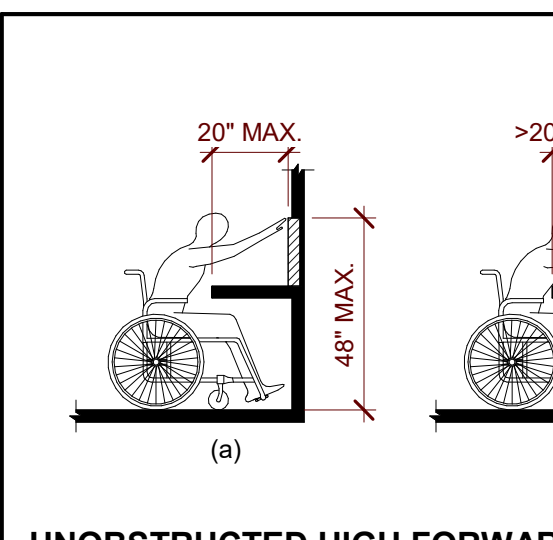
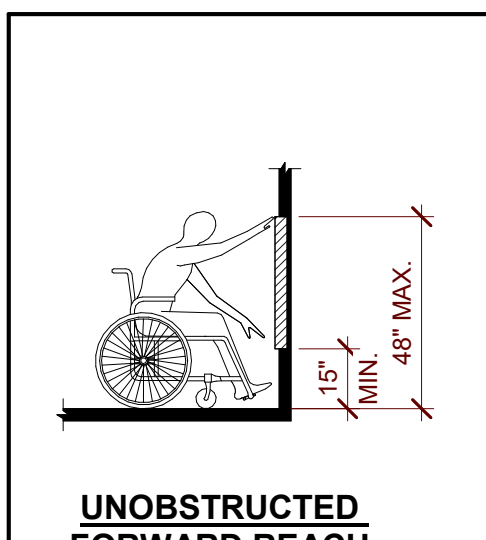
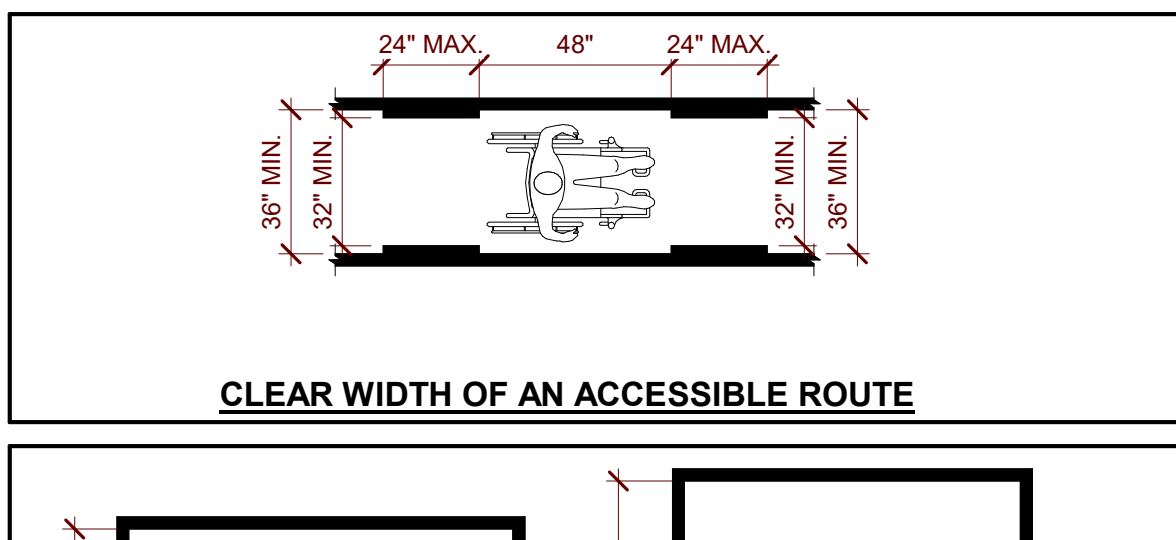
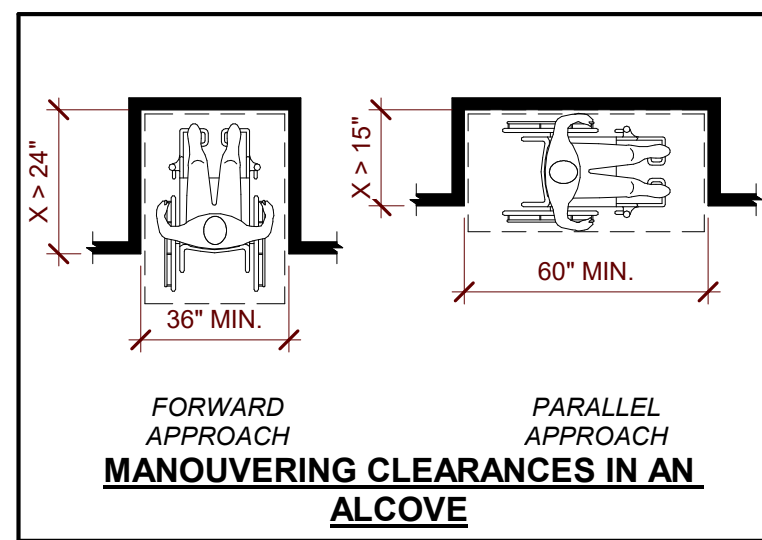
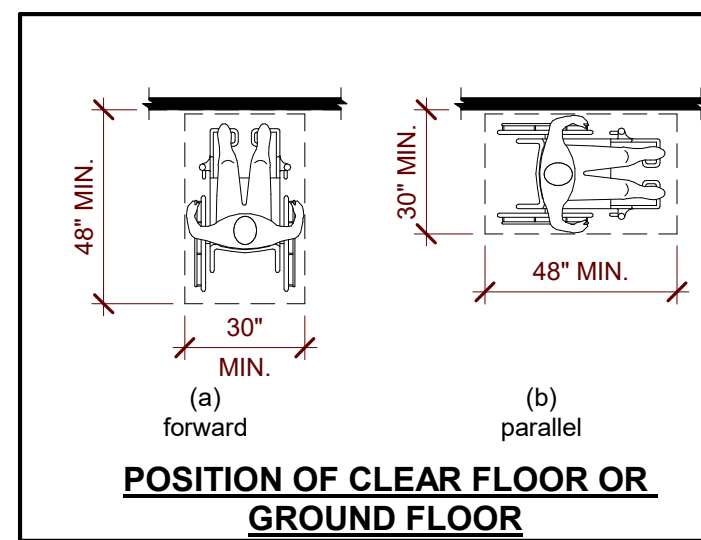
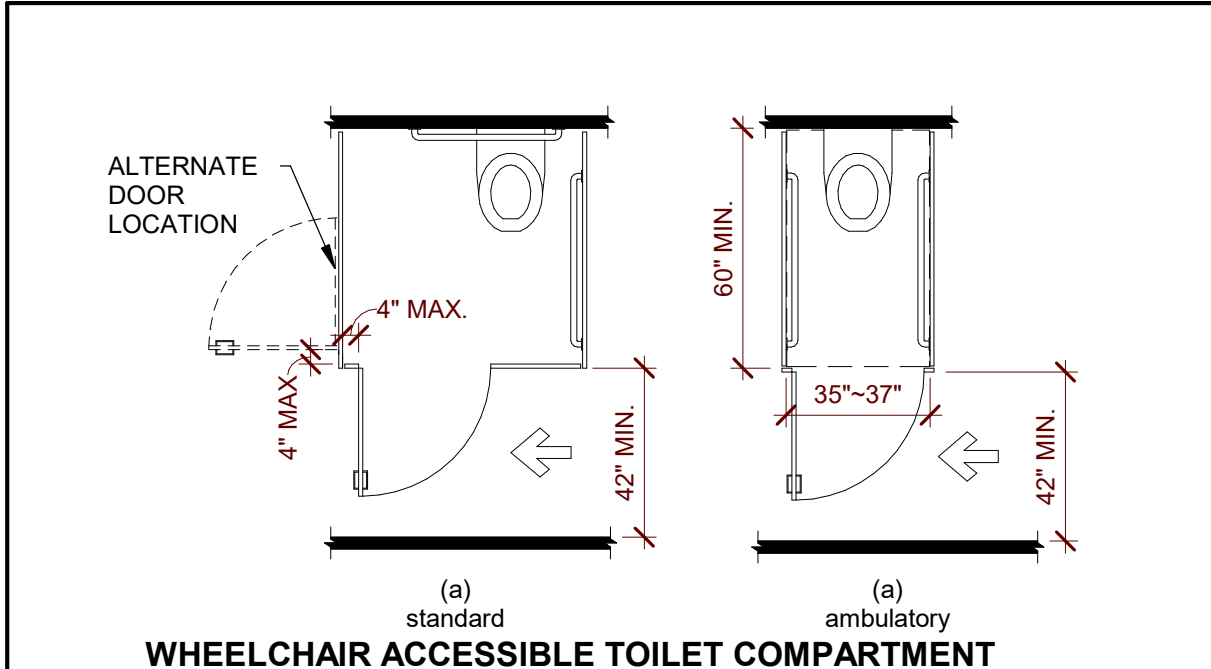
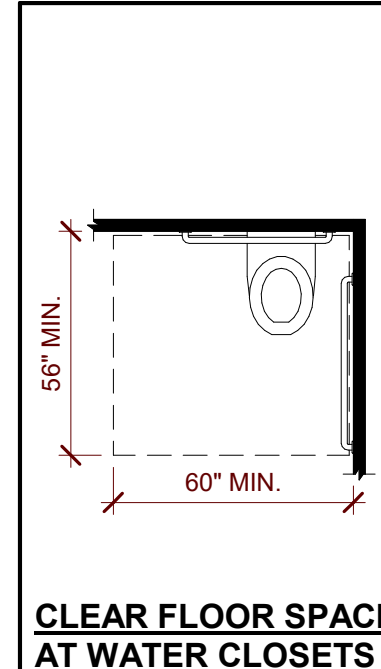
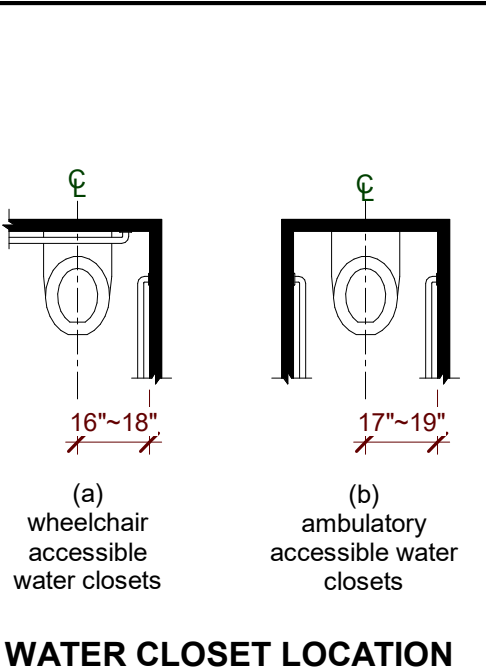
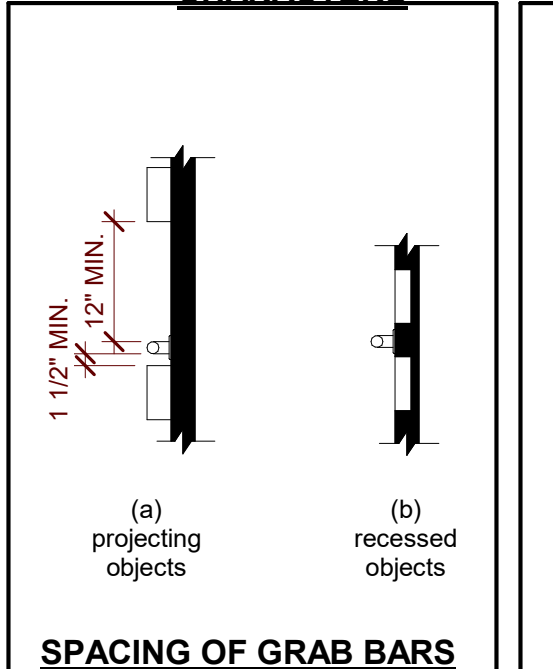
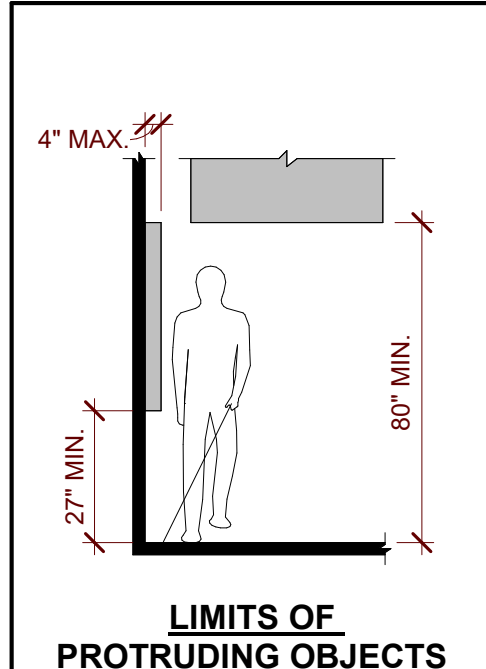
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MIN	20"	18"	16"
MAX	36"	40"	44"

WATER CLOSETS

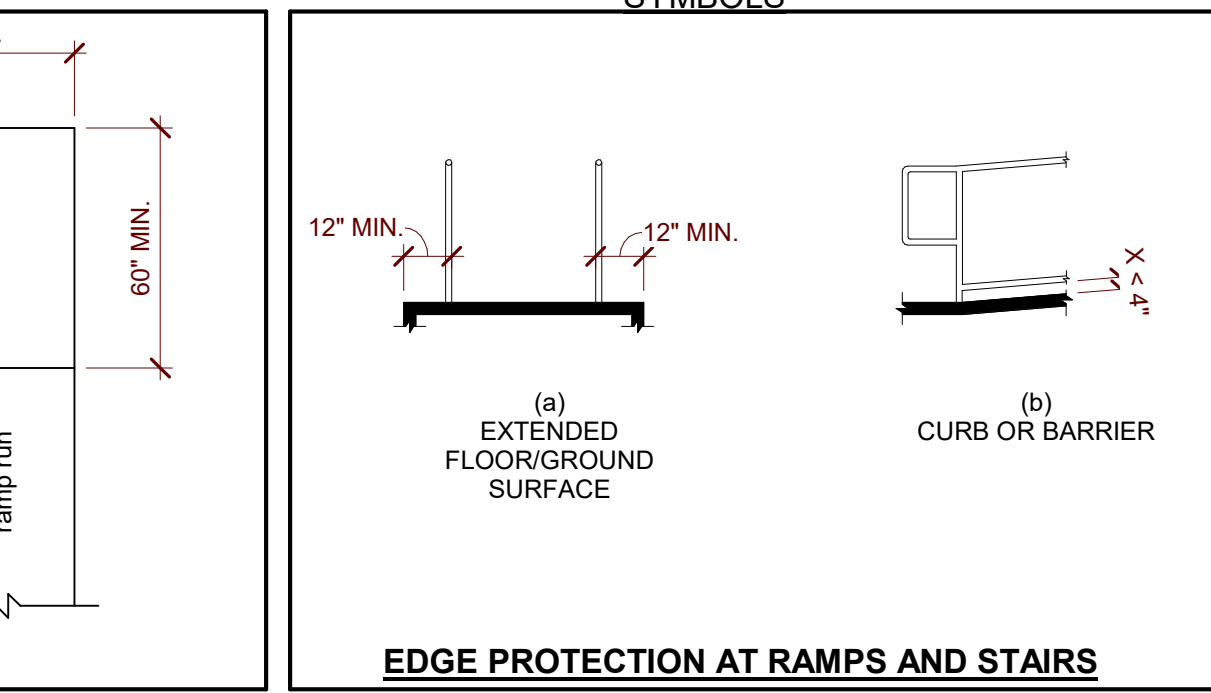
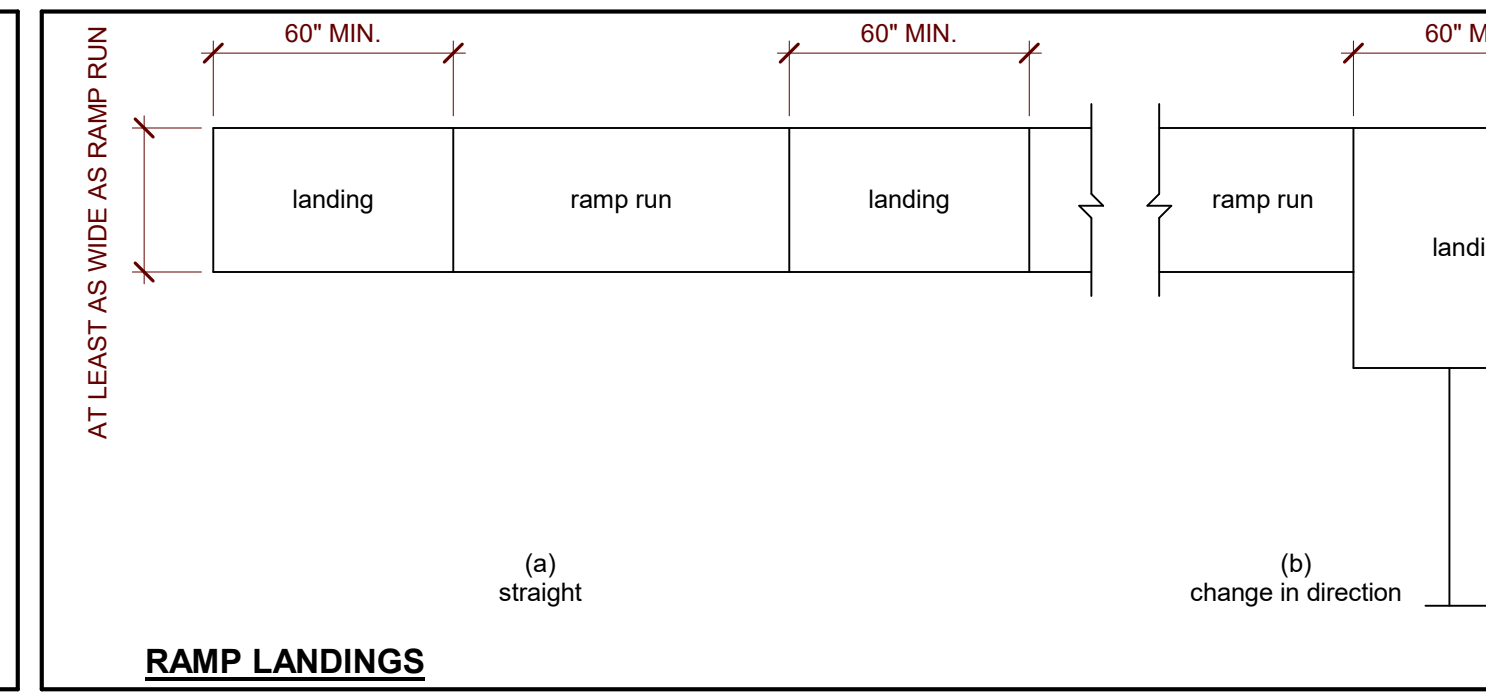
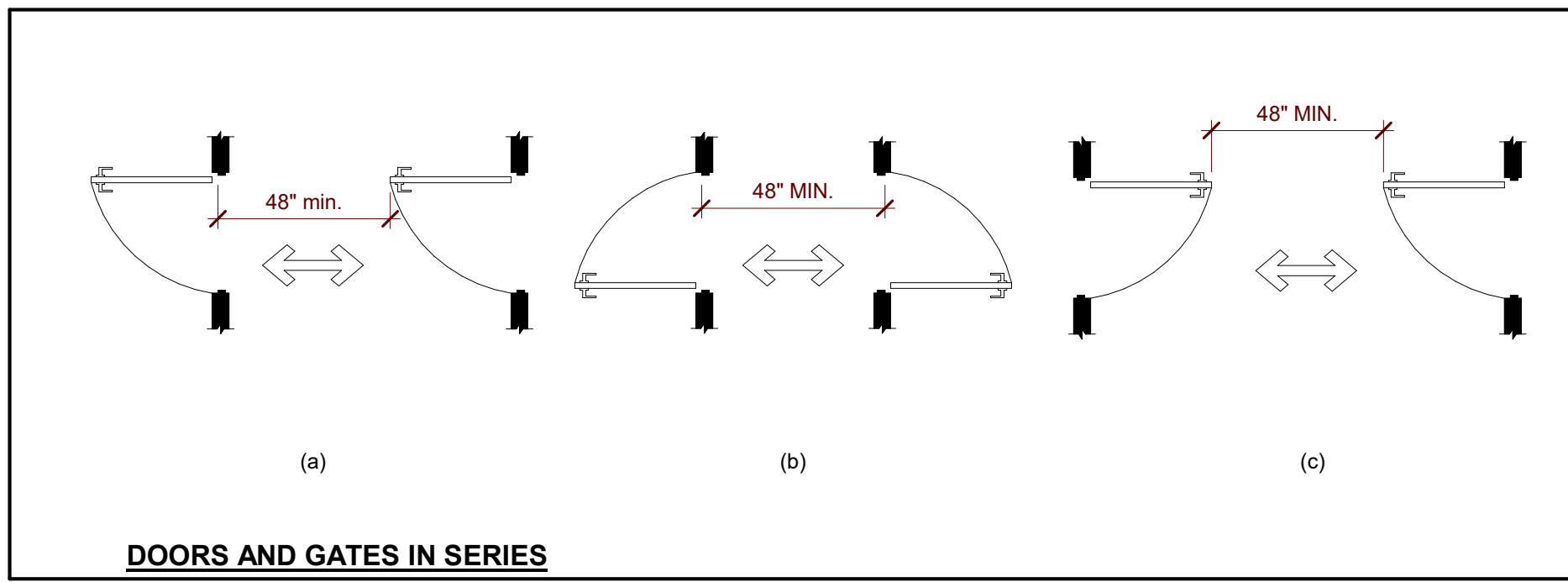
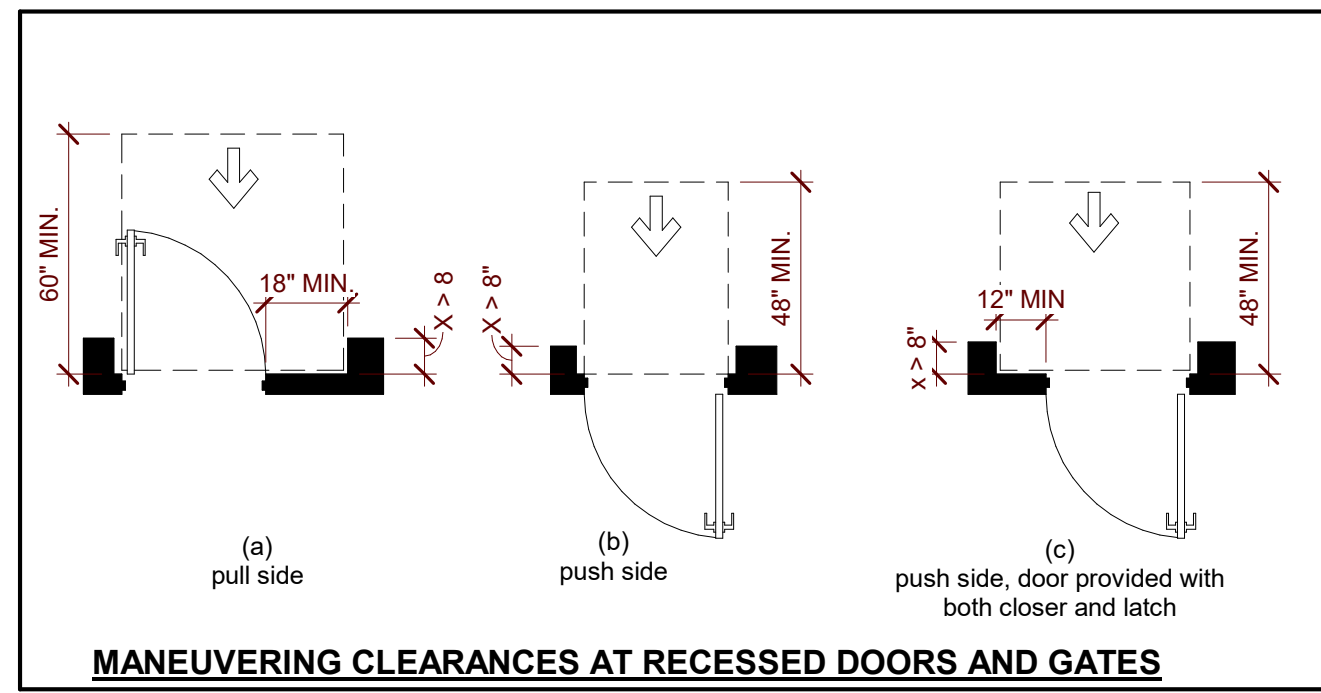
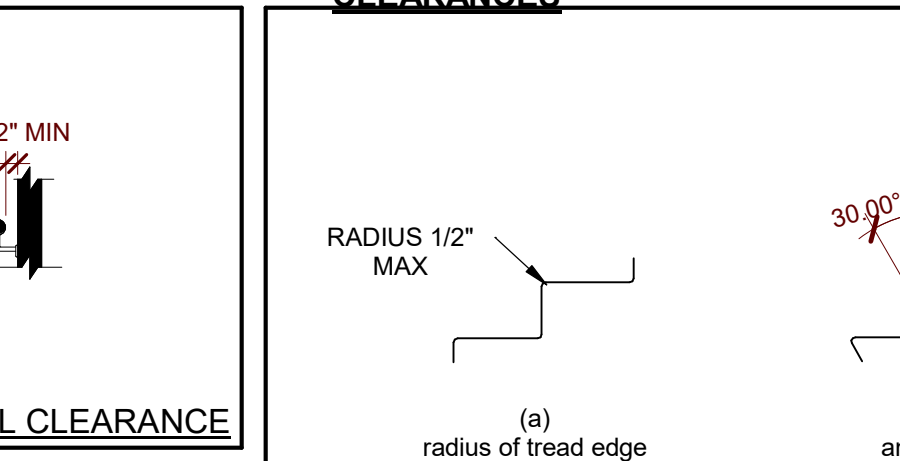
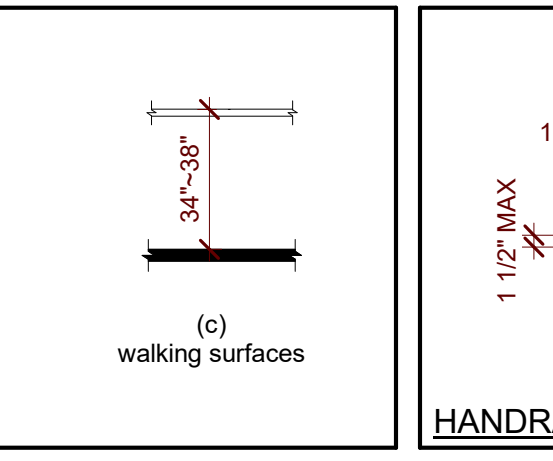
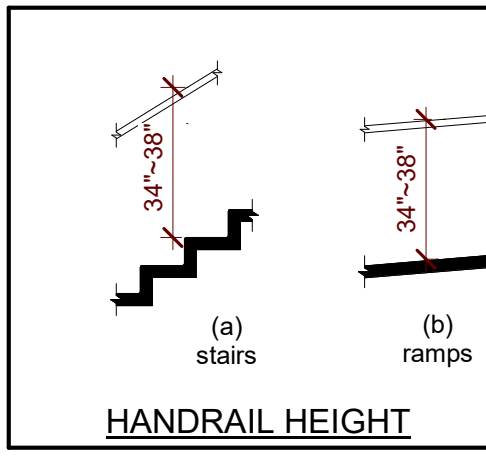
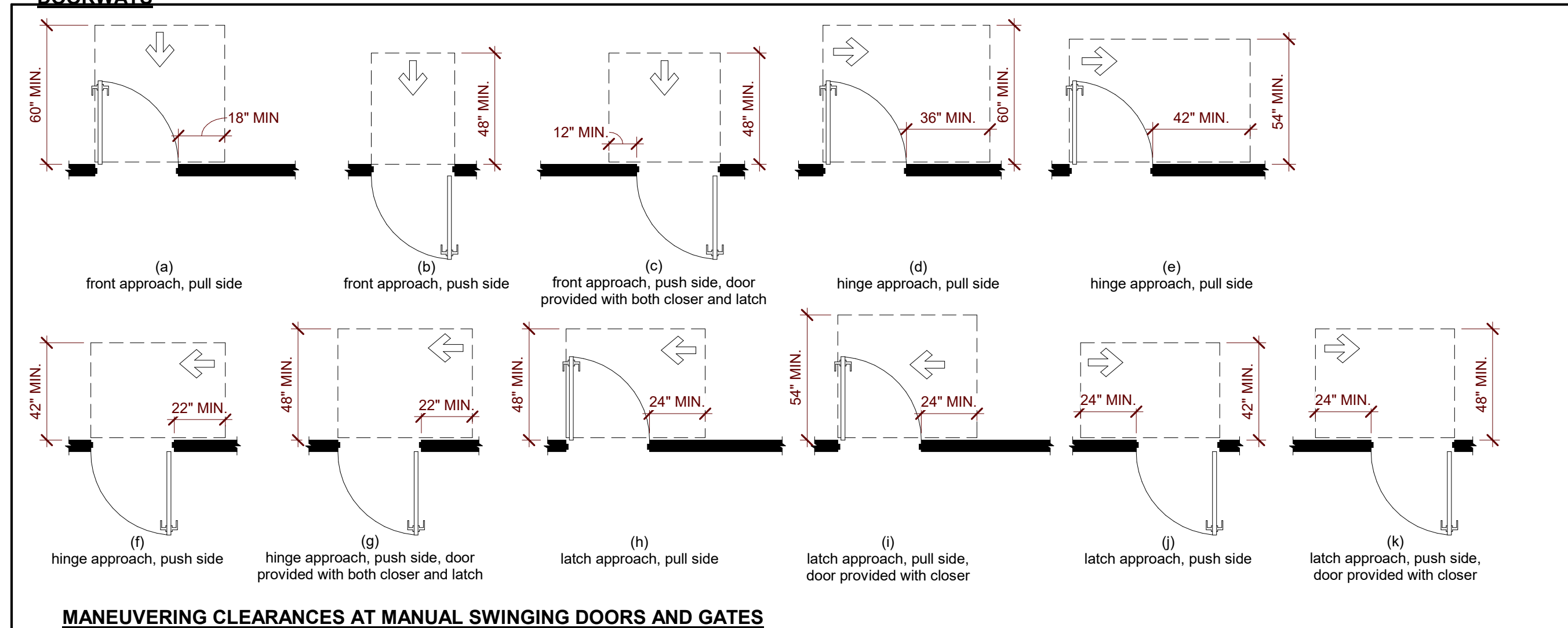
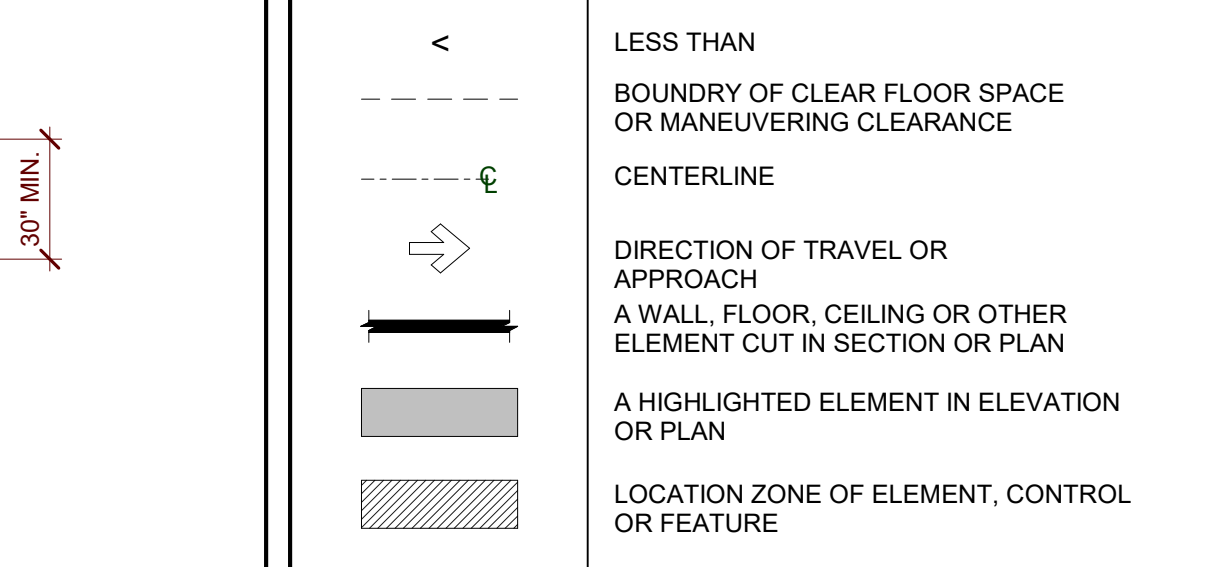
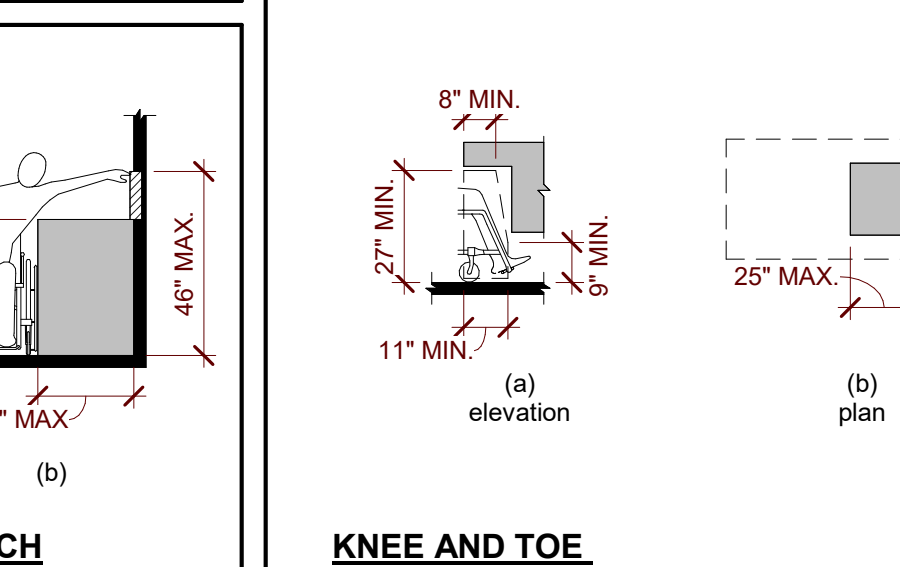
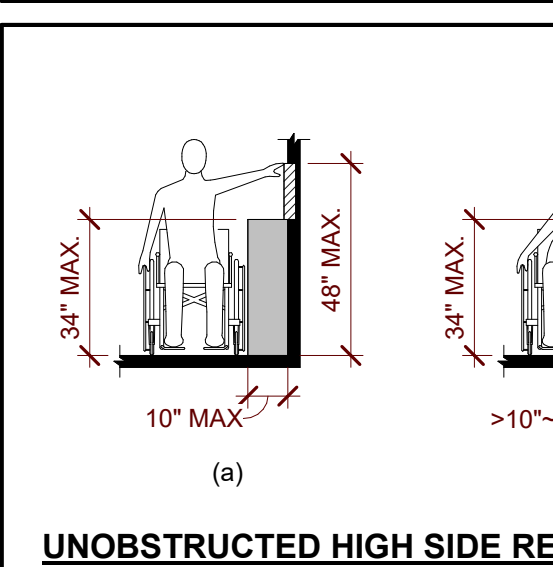
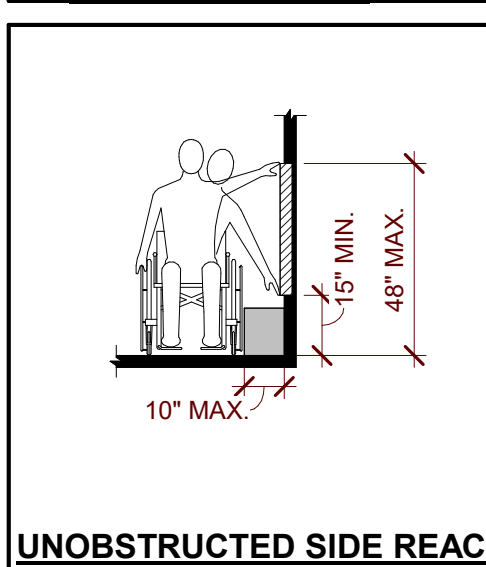
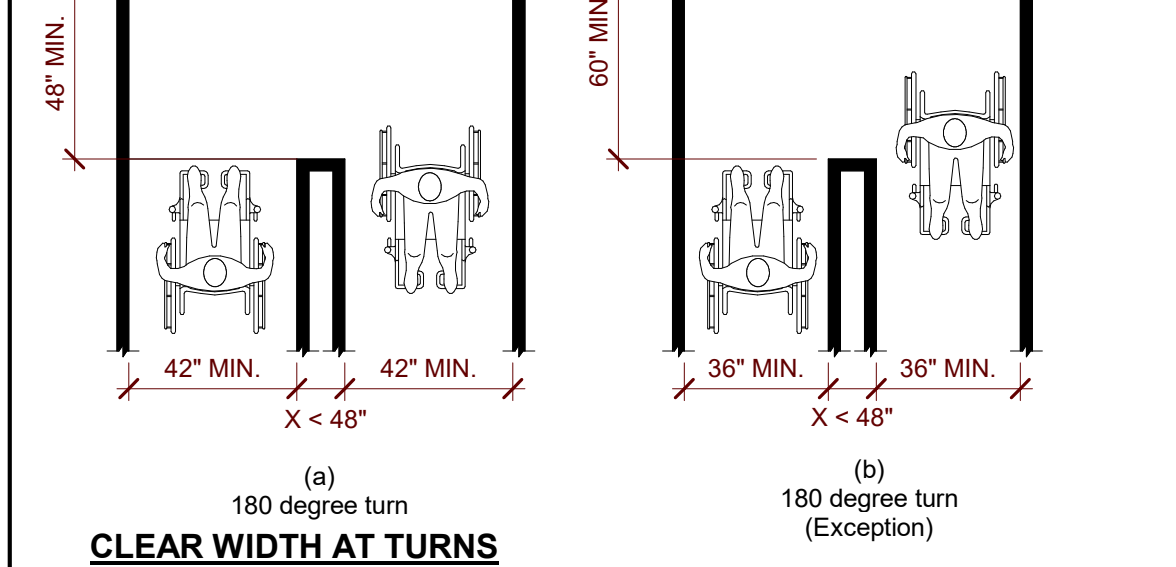
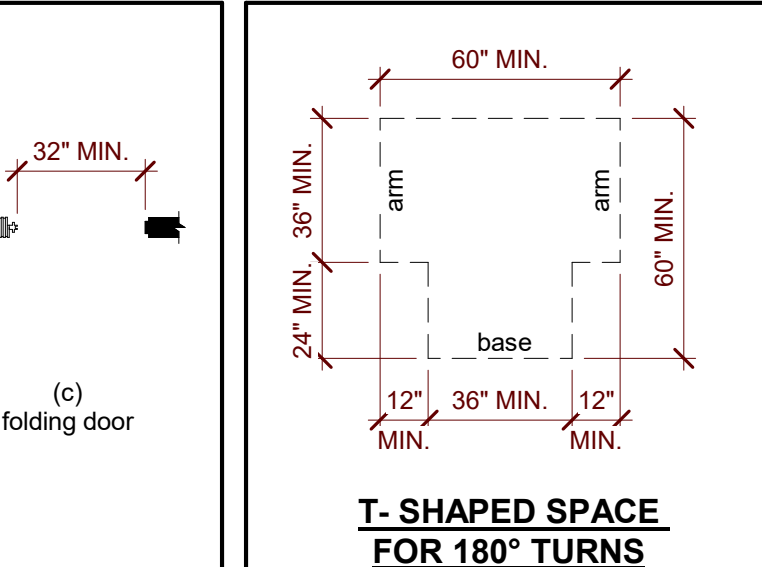
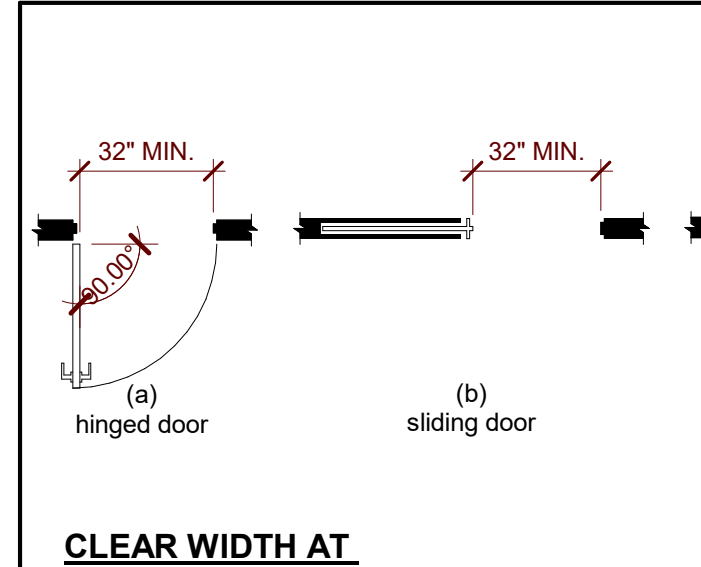
AGES:	3-4	5-8	9-12
W/C CL	12"	12-15"	15-18"
SEAT HGT	11-12"	12-15"	15-17"
G. BAR HGT	18-20"	20-25"	25-27"
DISP. HGT	14"	14-17"	17-19"

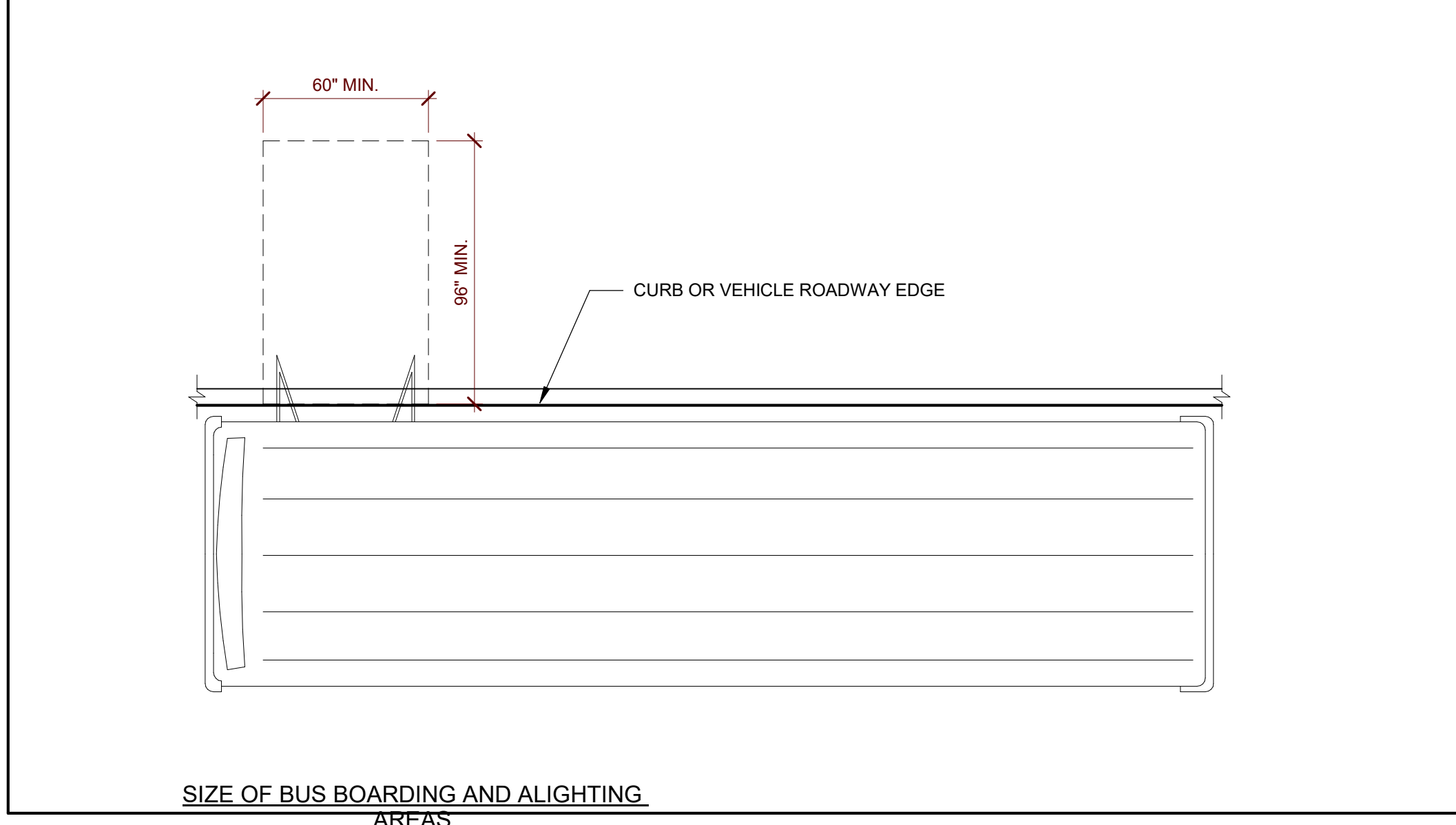
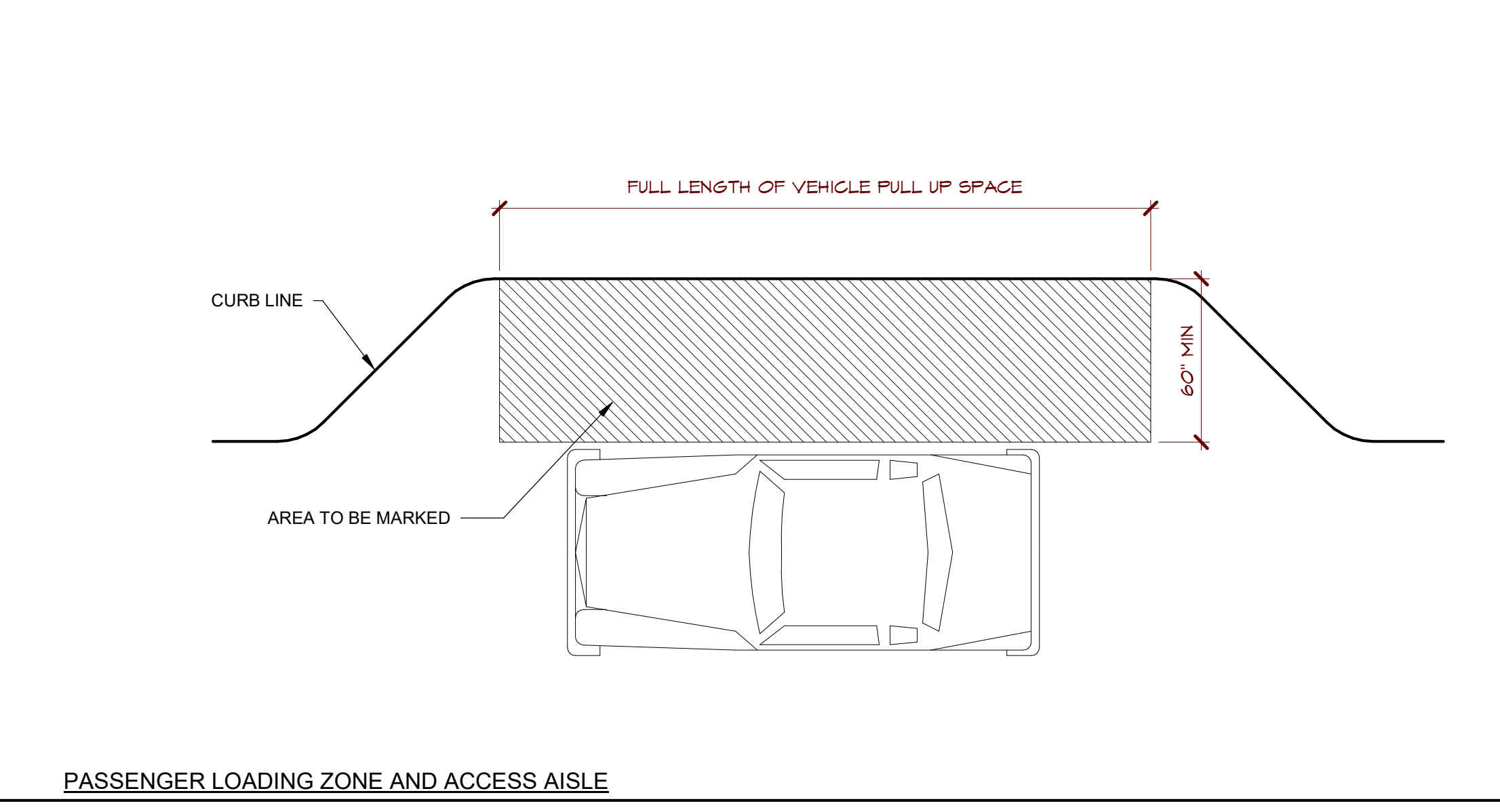
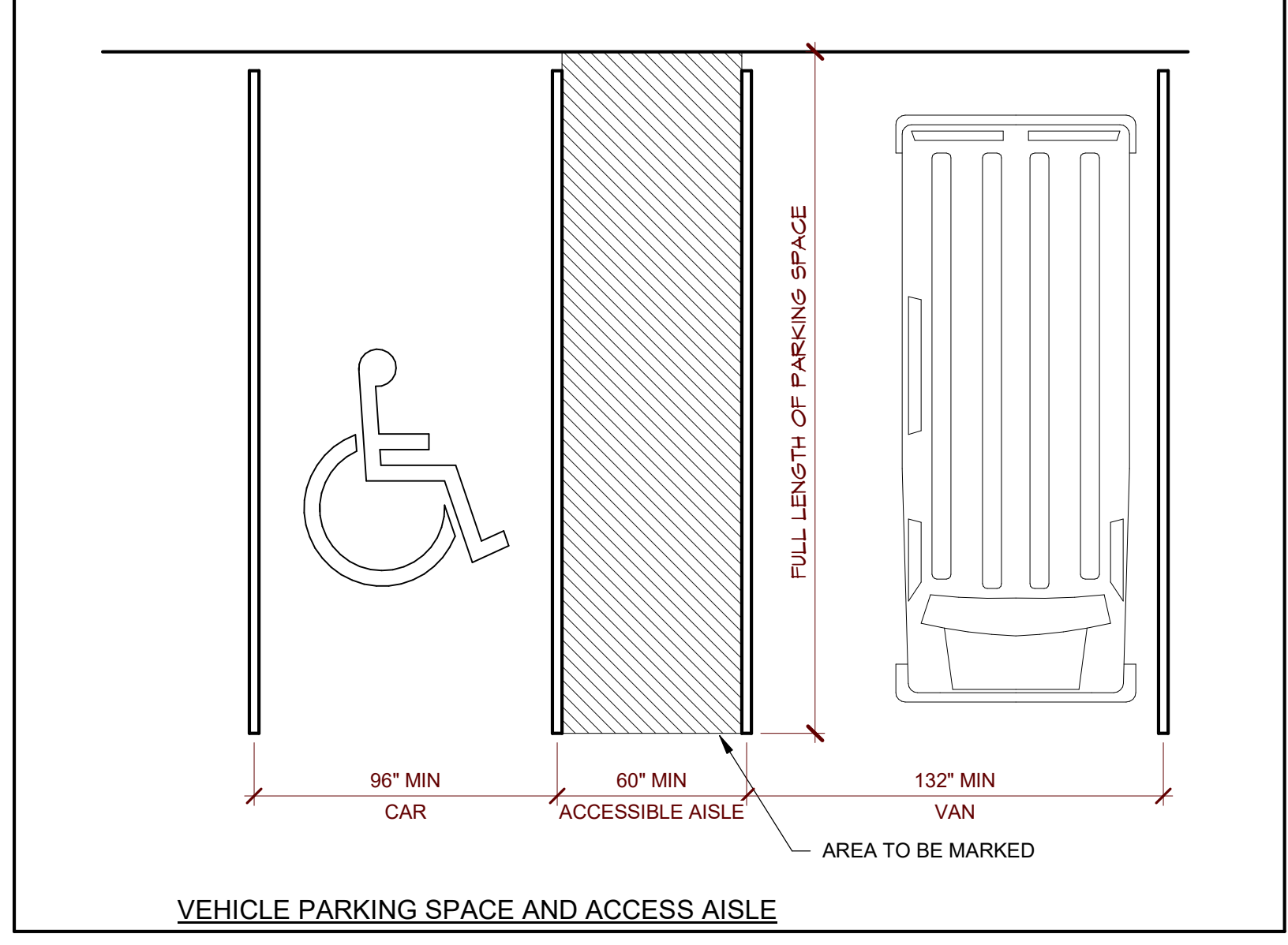
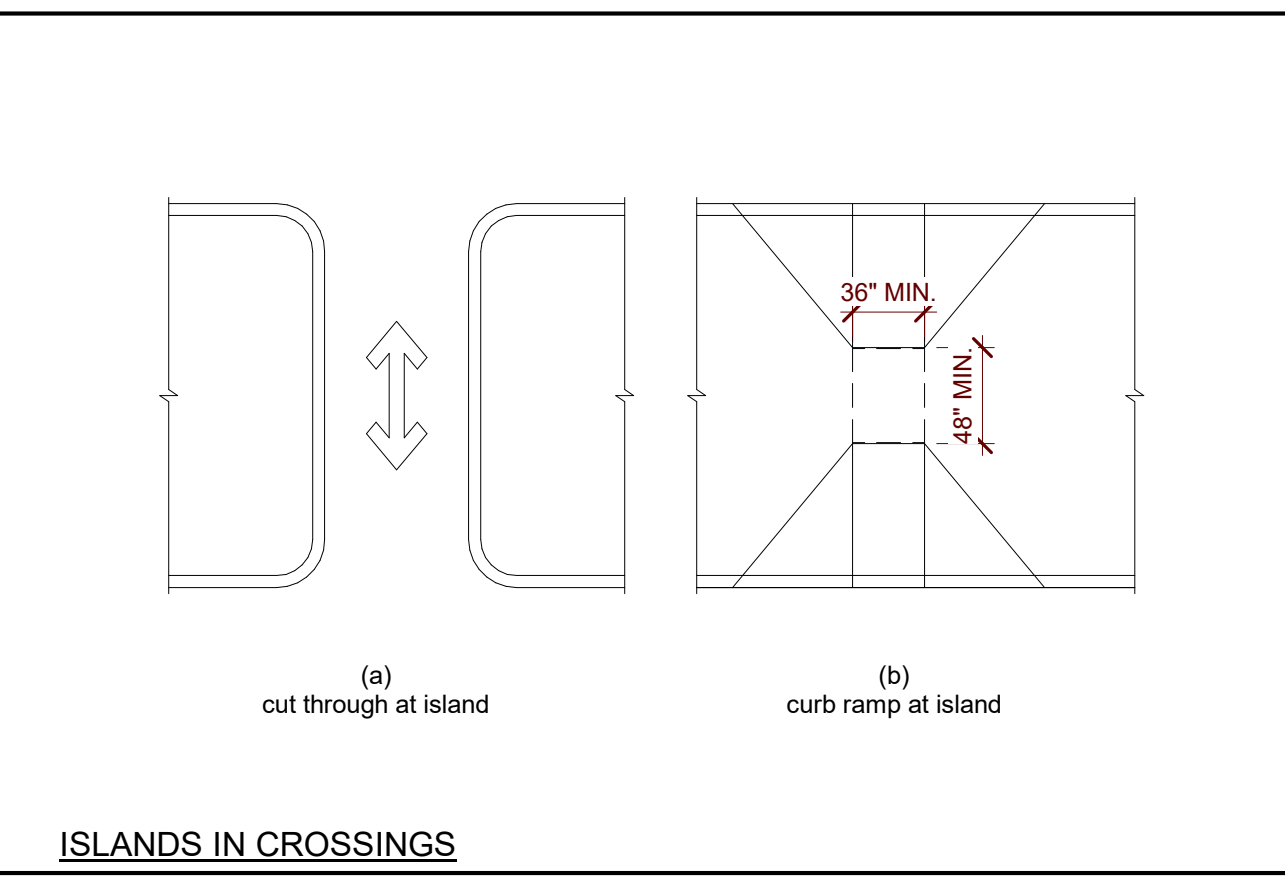
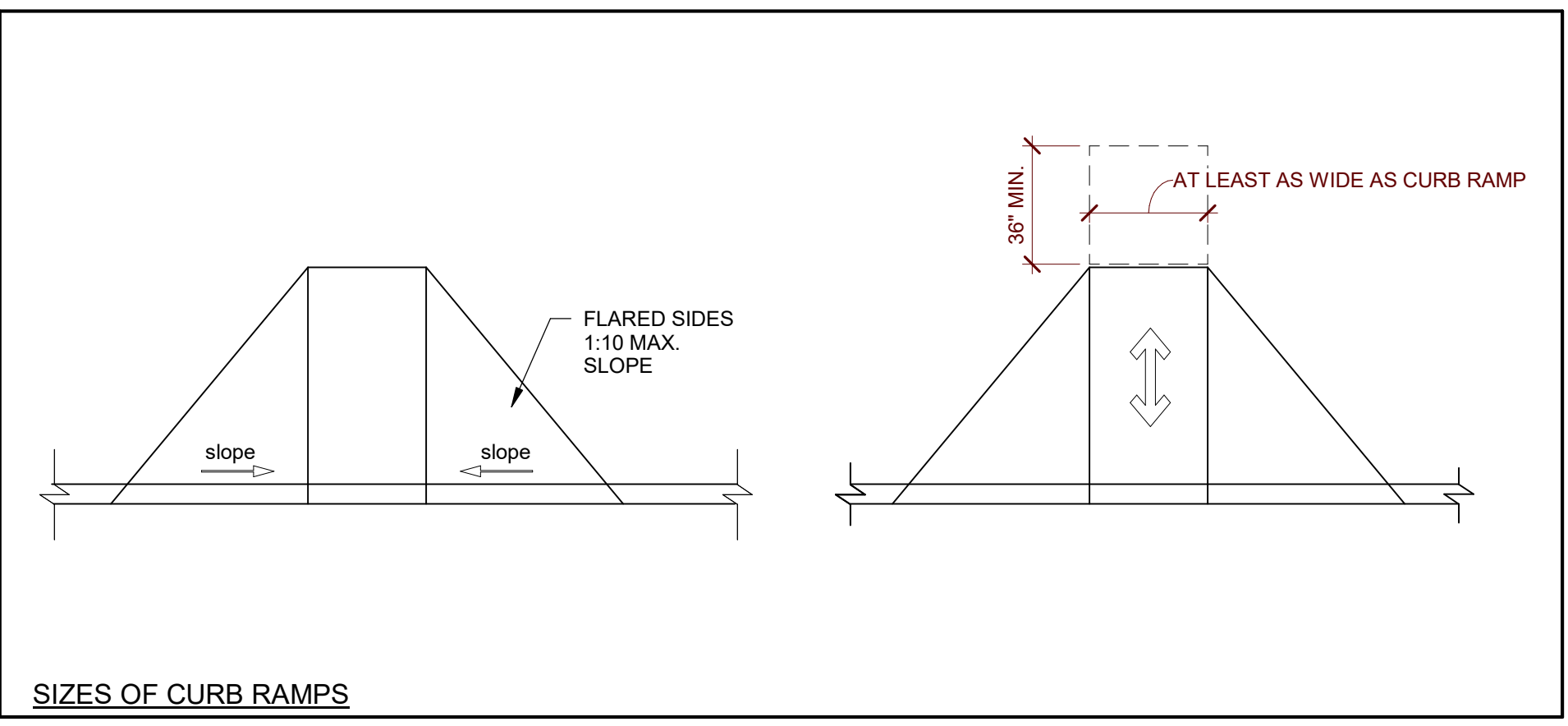
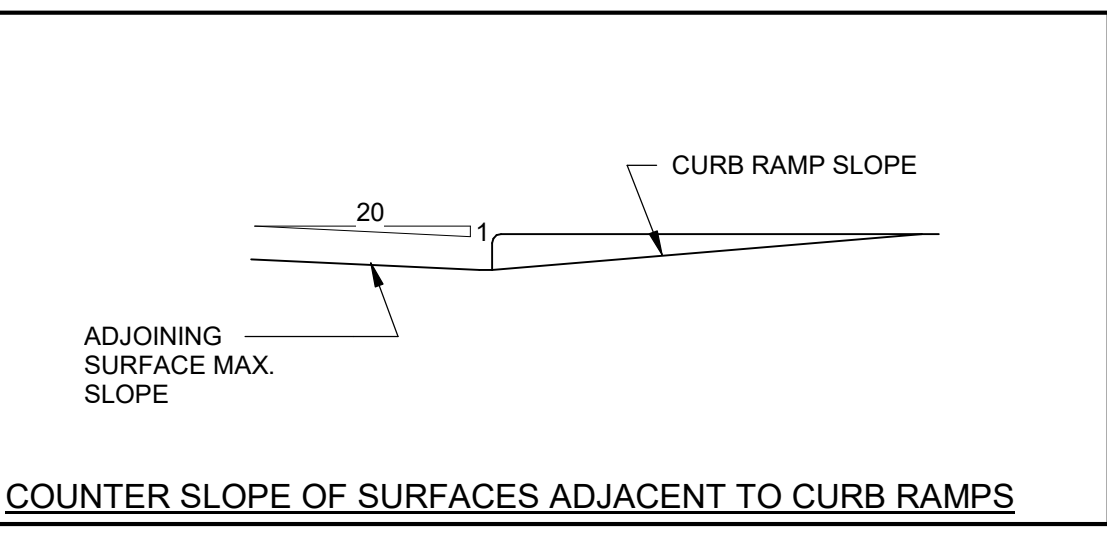
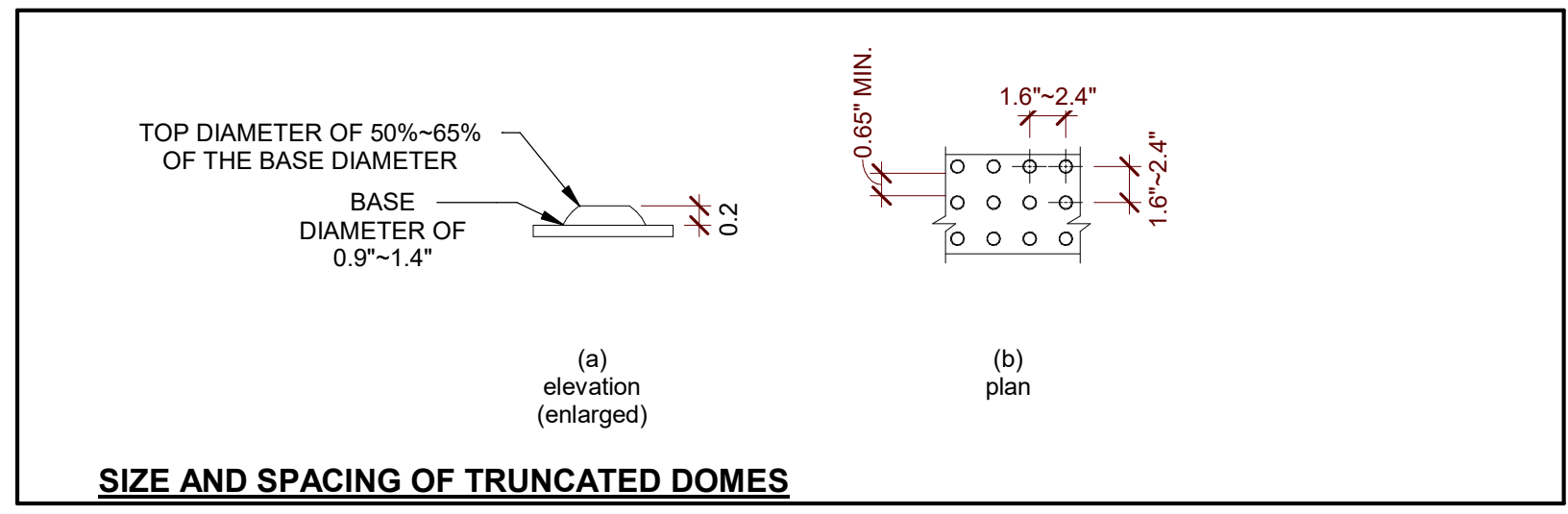
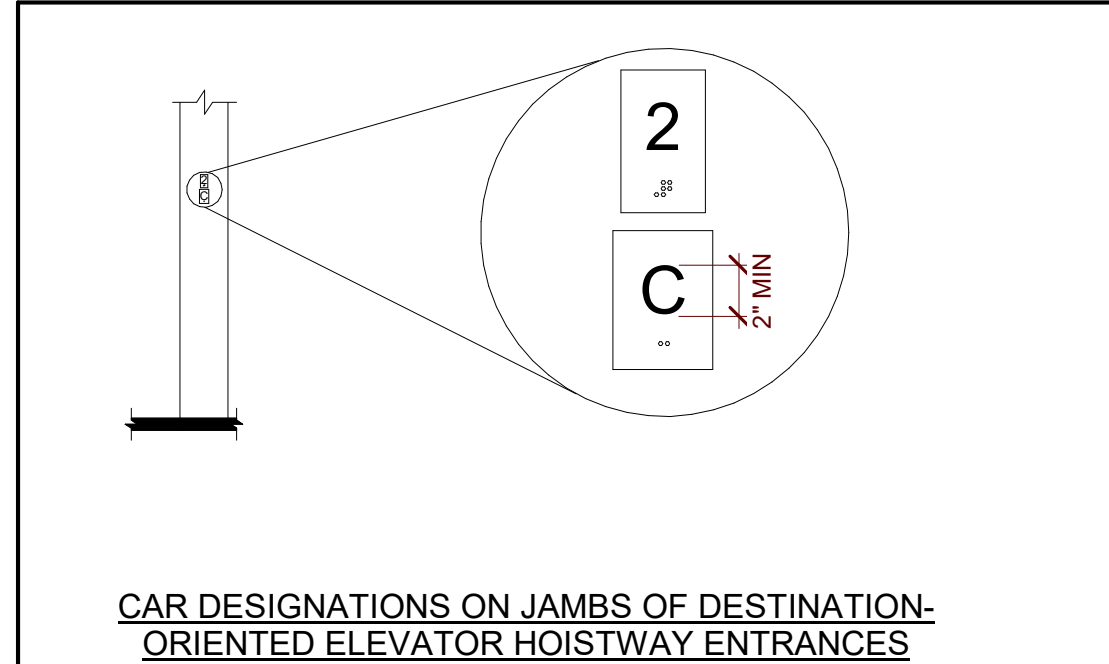
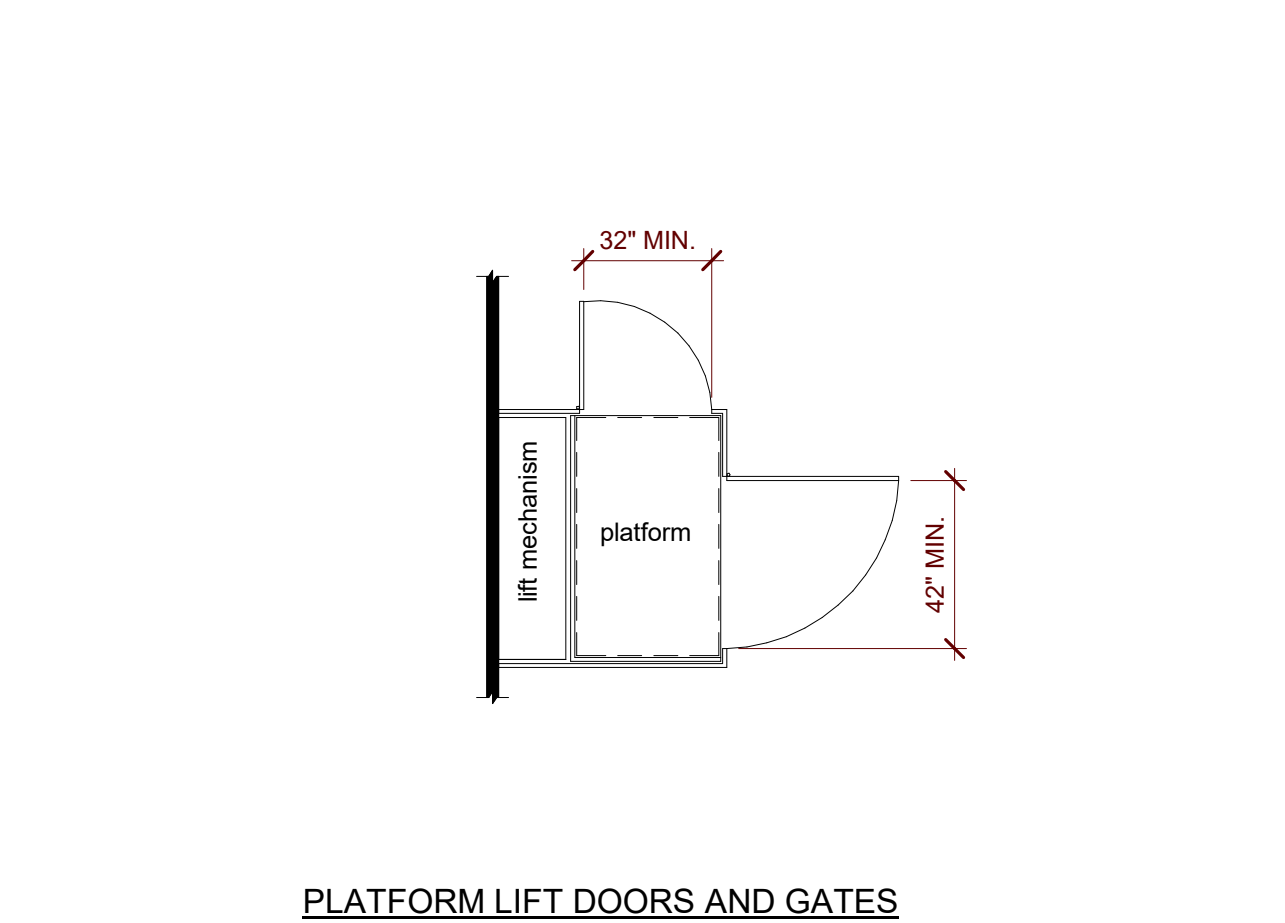
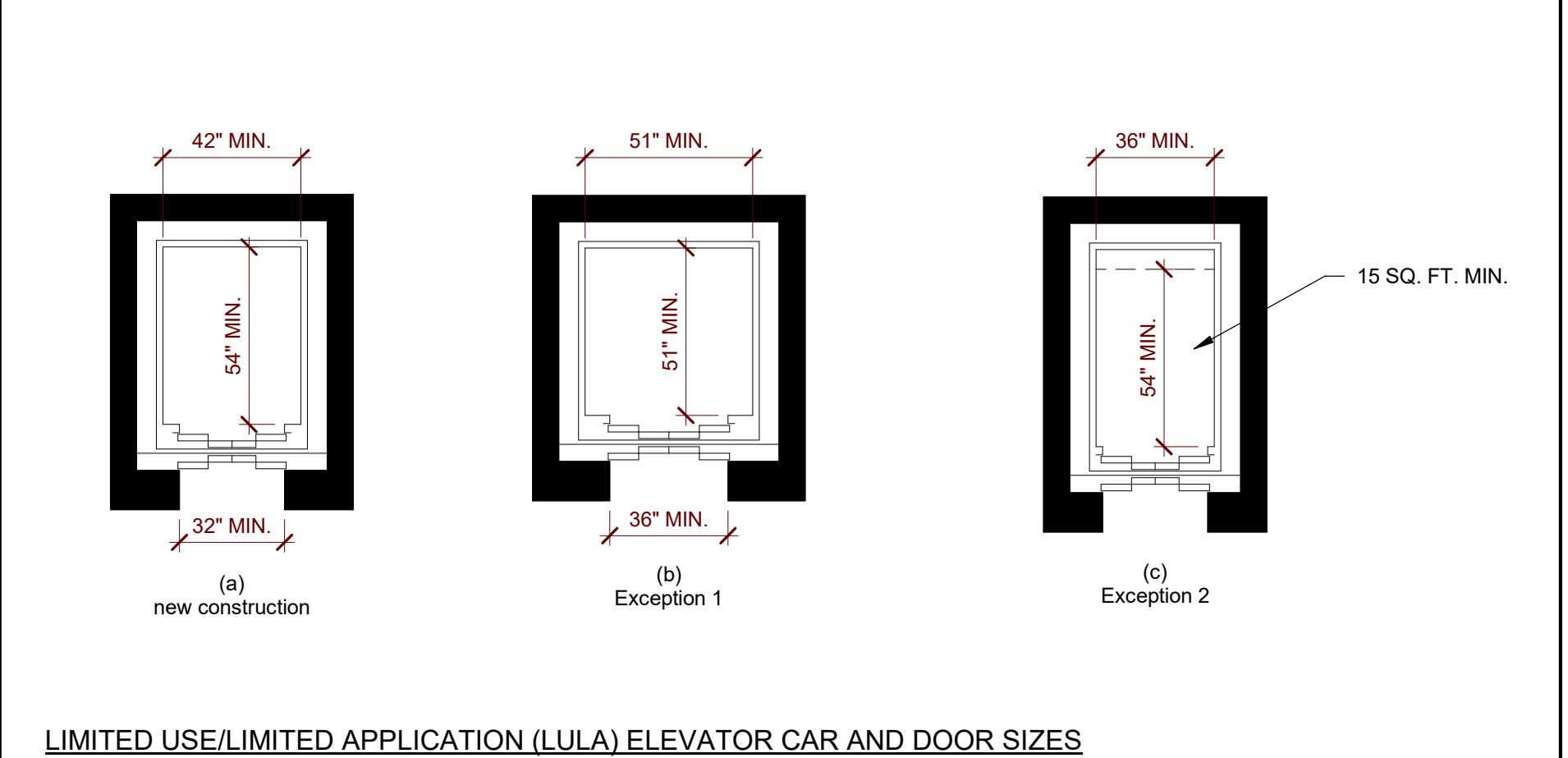
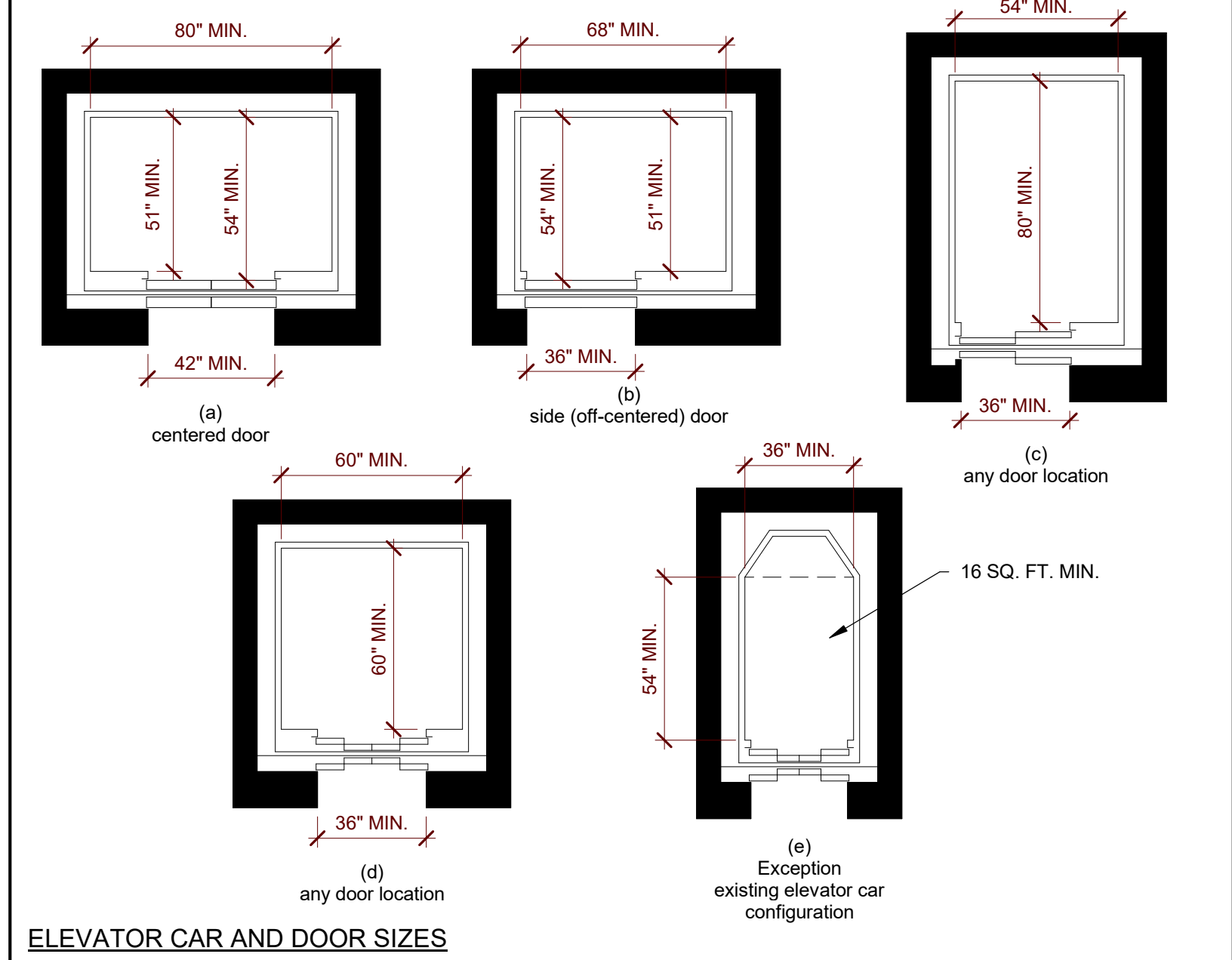
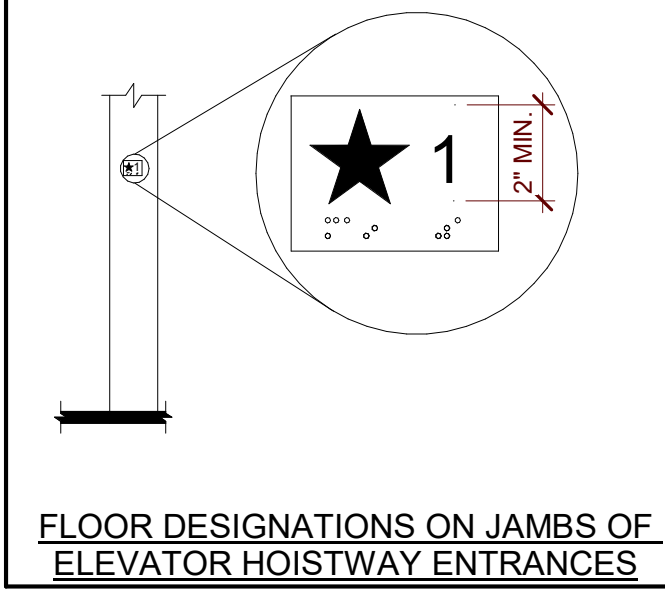
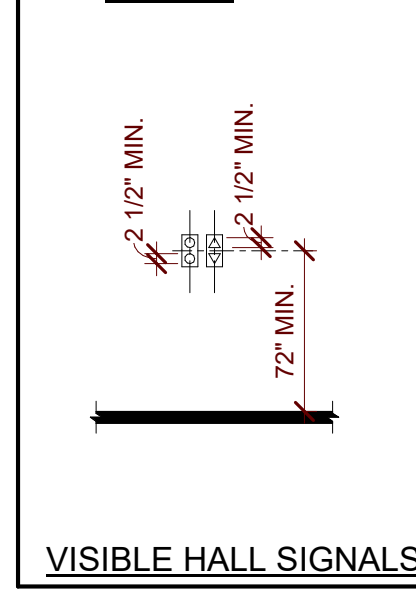
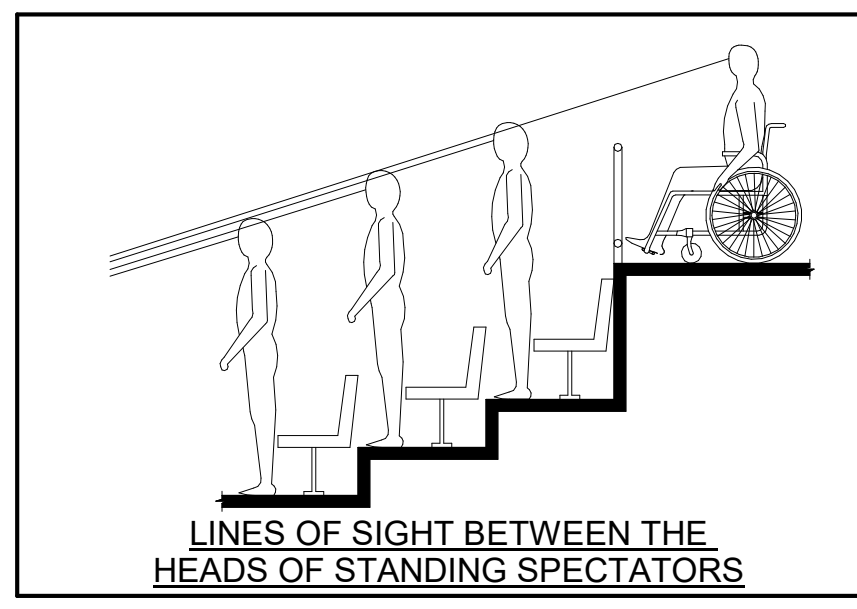
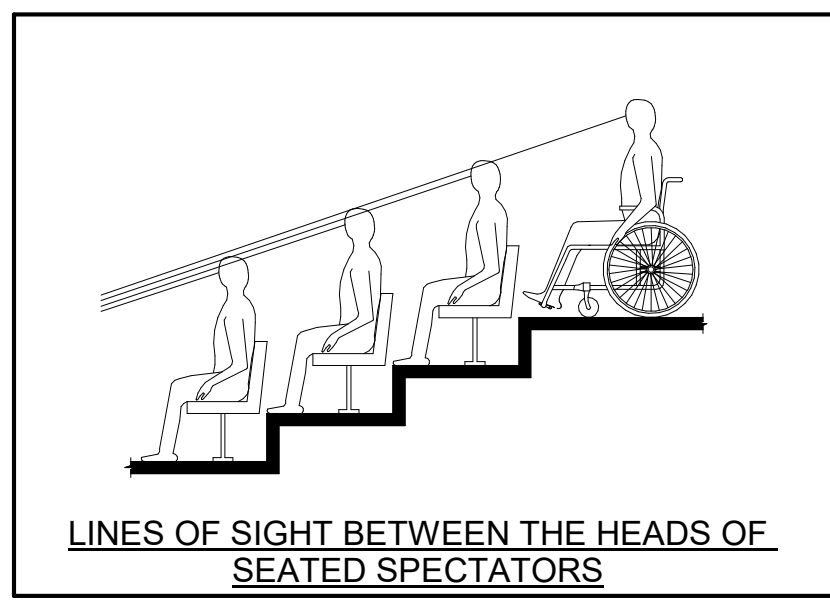
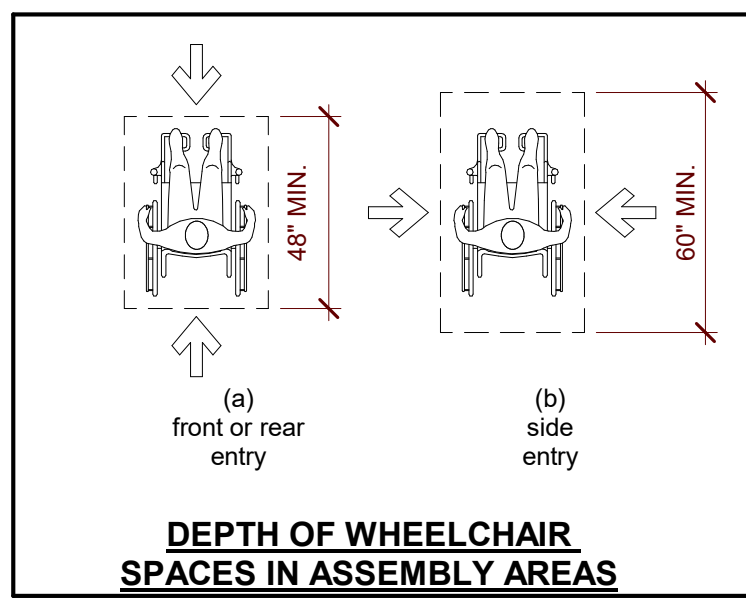
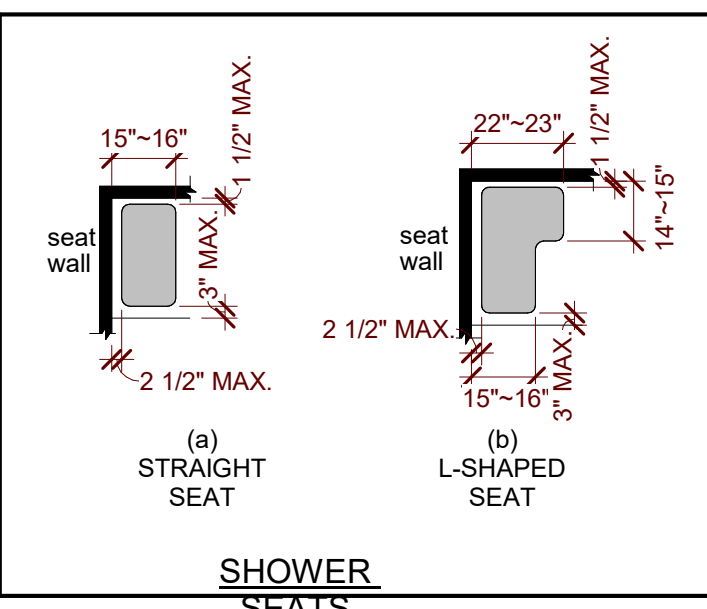
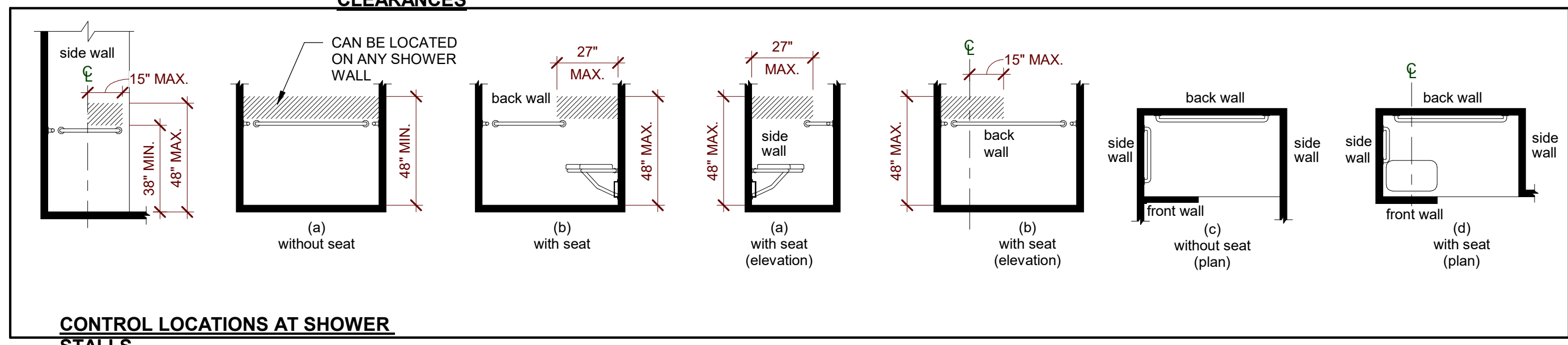
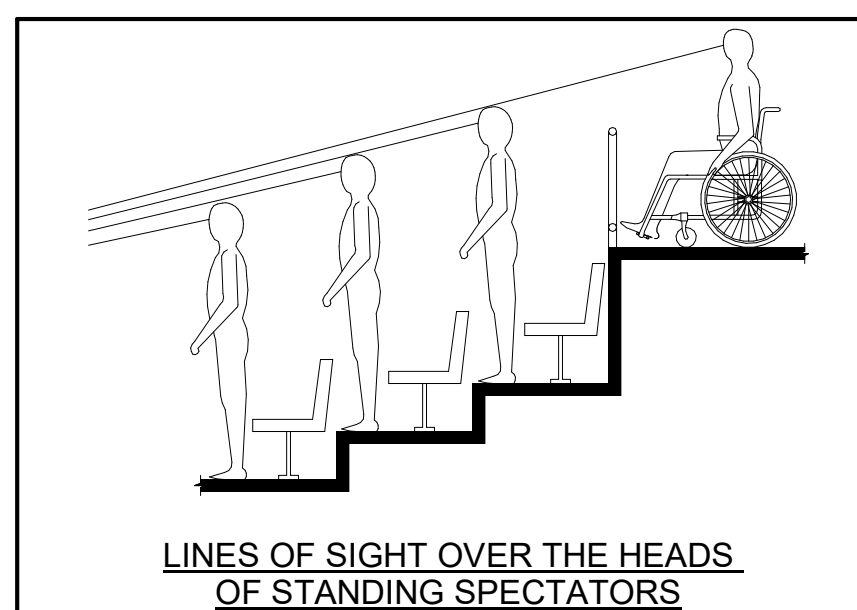
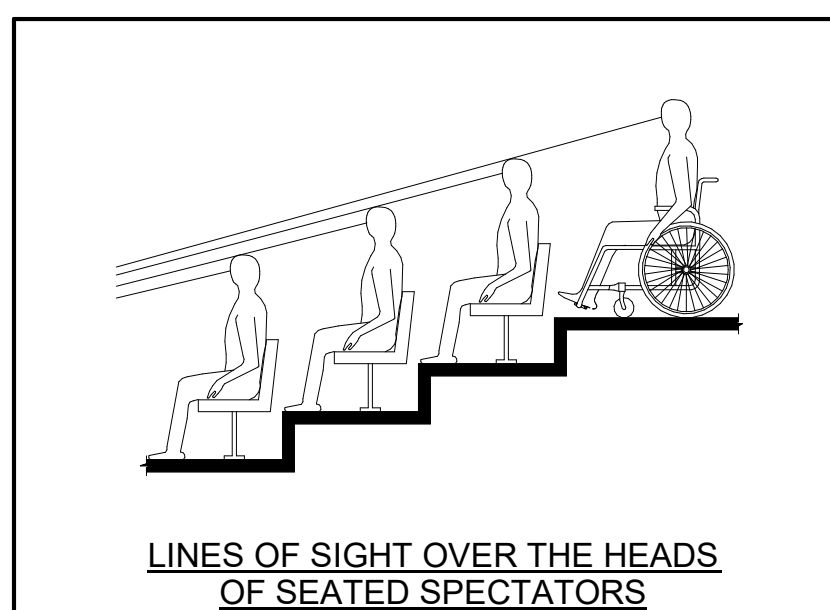
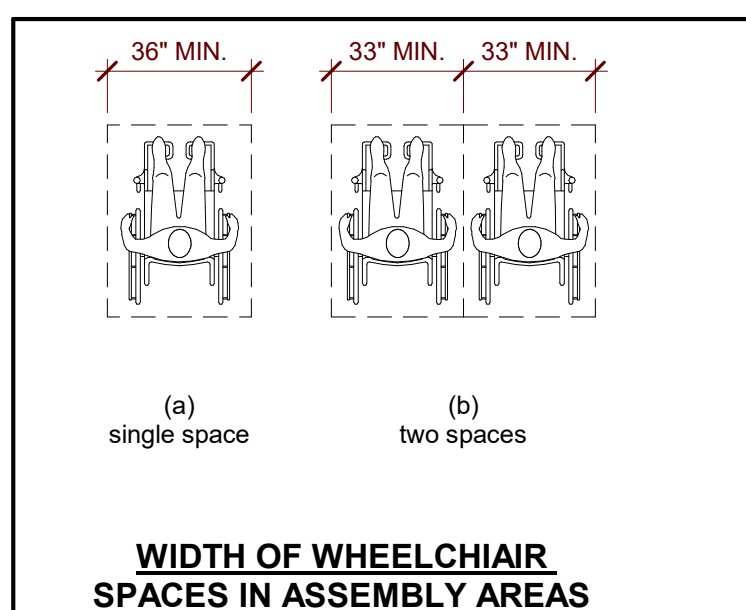
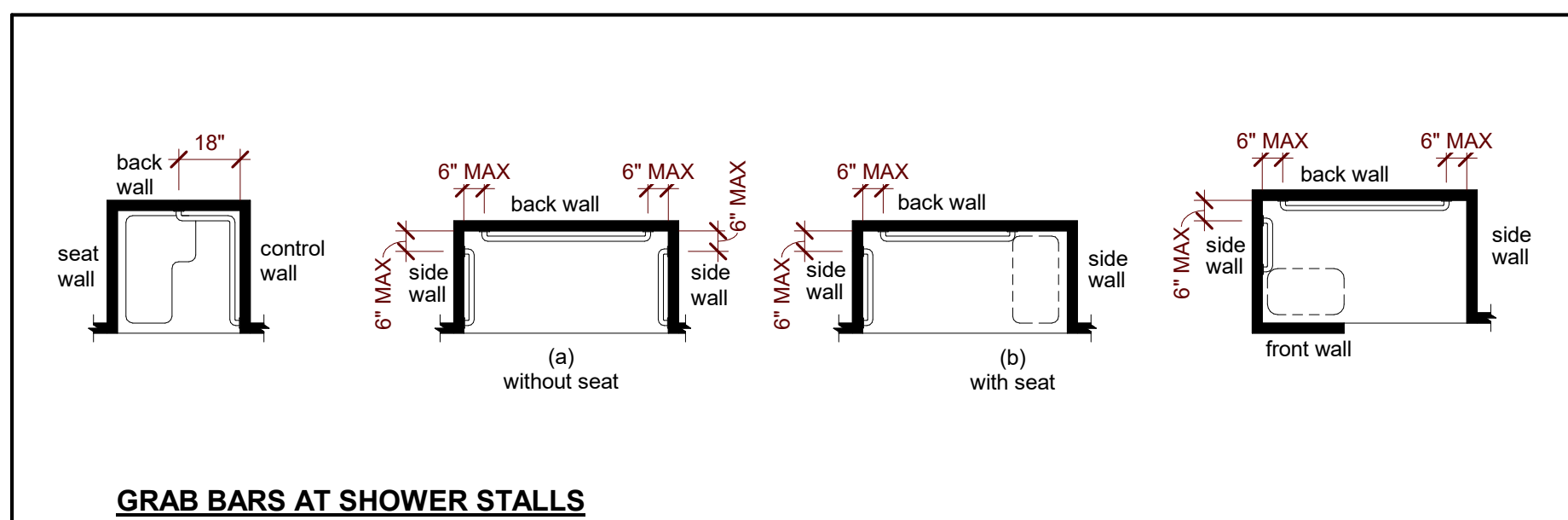
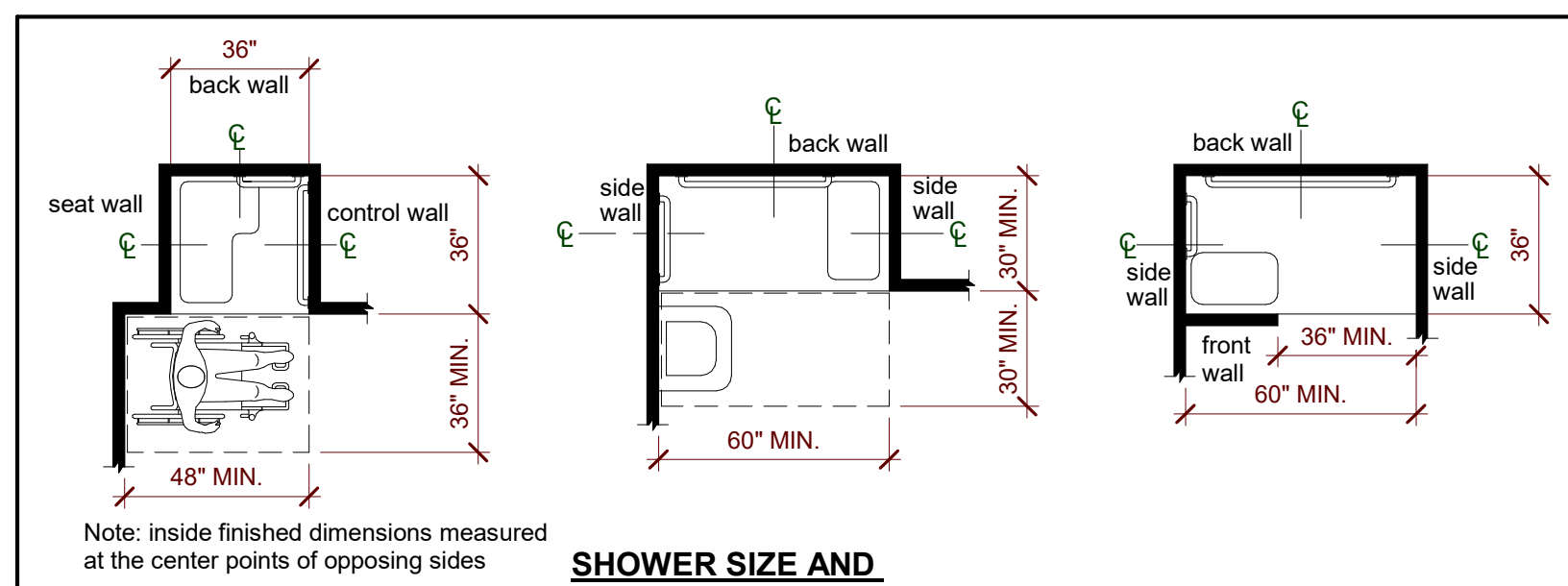
HANDRAILS
A SECOND HANDRAIL MAY BE INCLUDED AT A MAX. HEIGHT OF 28" WITH 9" MIN CLEAR BETWEEN THE CHILD RAIL AND THE STANDARD RAIL

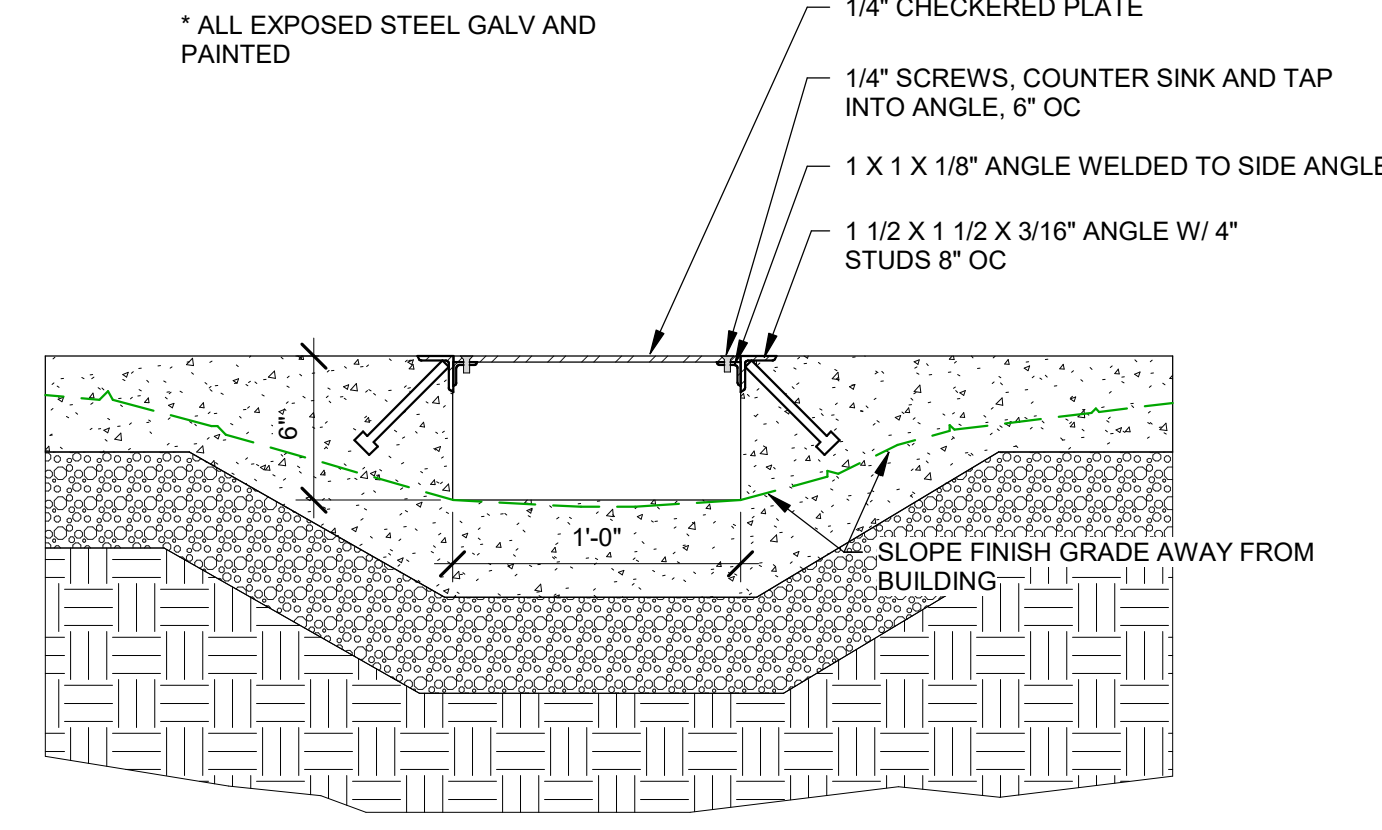
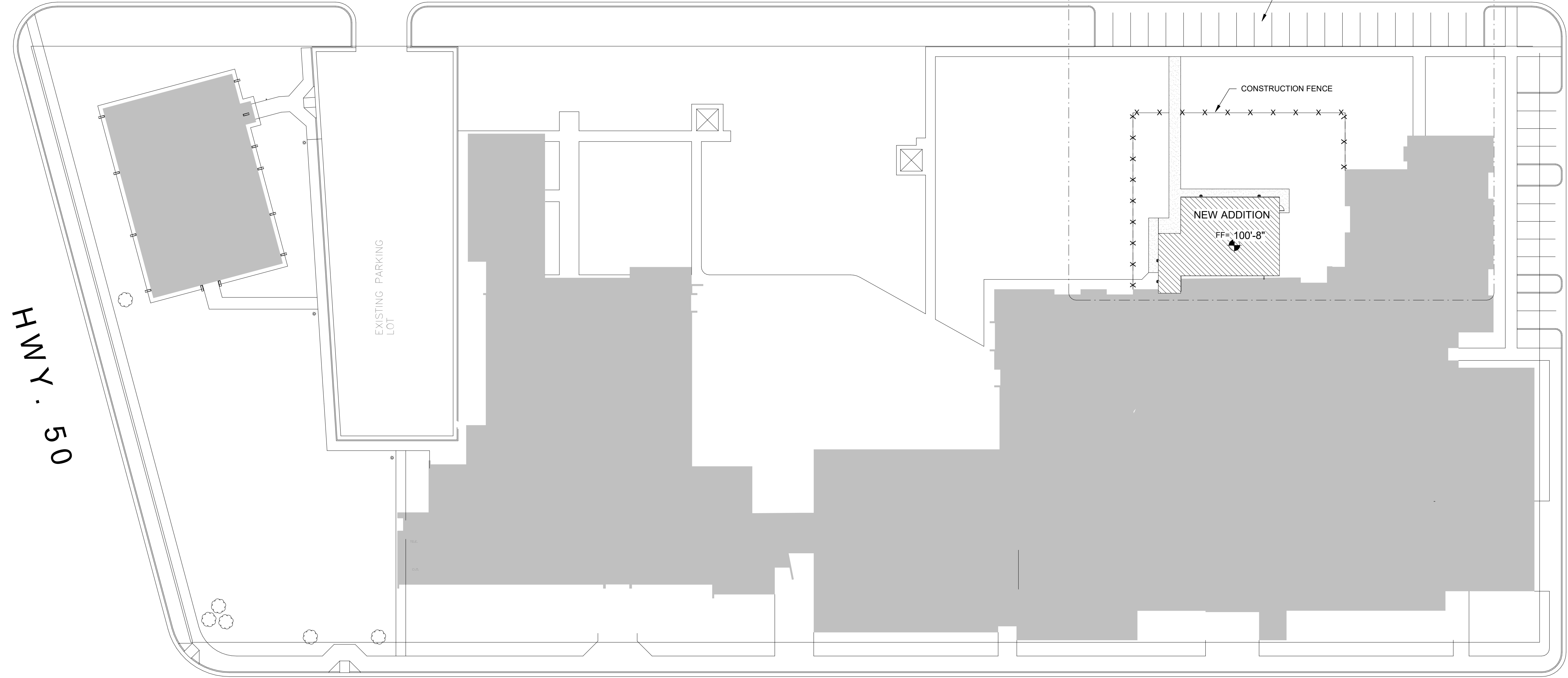
CONSIDERATIONS FOR CHILD USE



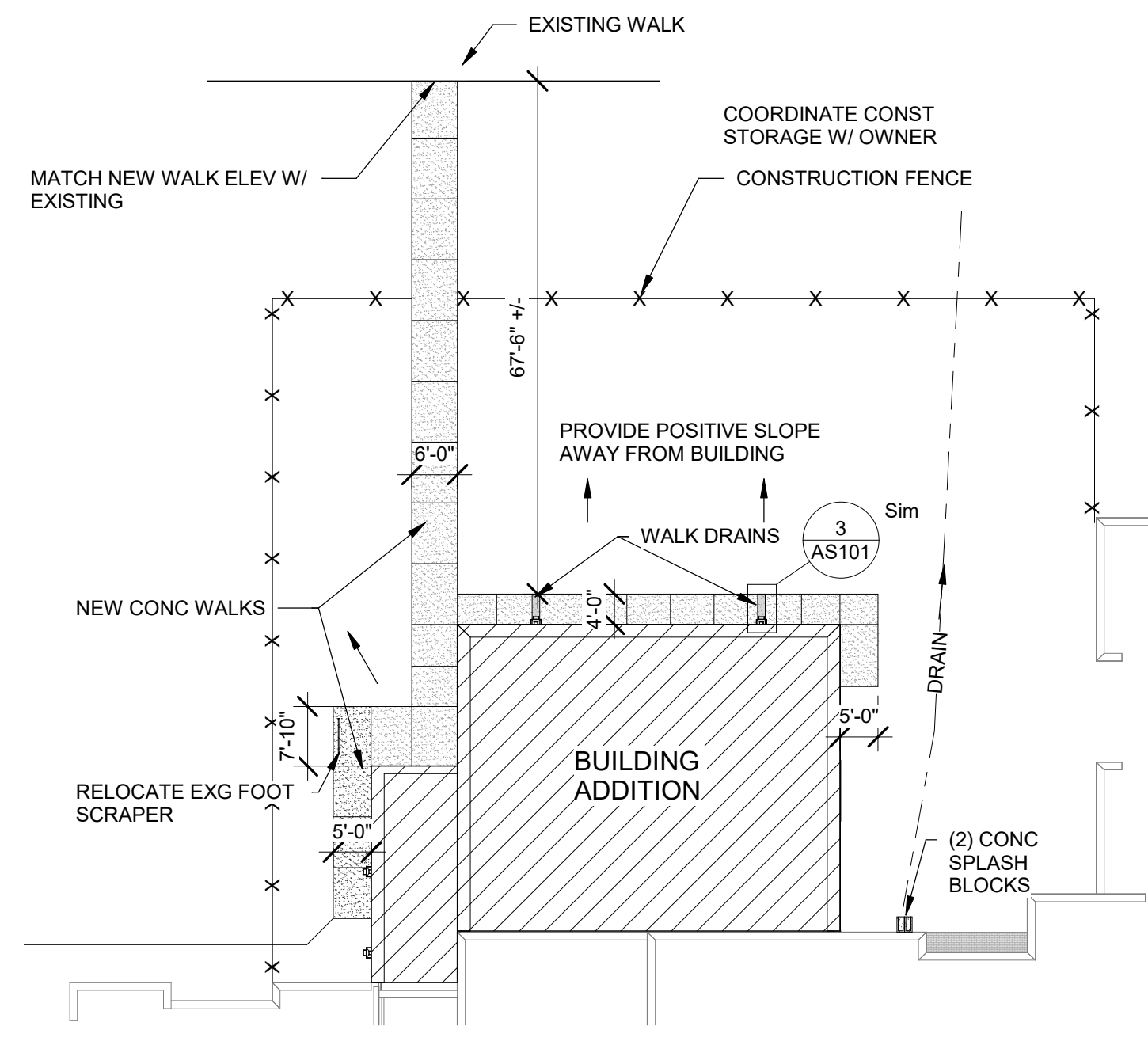
CONVENTION	DESCRIPTION
36"	DIMENSION SHOWING ENGLISH UNITS (IN INCHES UNLESS OTHERWISE SPECIFIED)
6"	DIMENSION FOR SMALL MEASUREMENTS
33"-36"	DIMENSION SHOWING A RANGE WITH MINIMUM - MAXIMUM
MIN	MINIMUM
MAX	MAXIMUM
>	GREATER THAN
<	LESS THAN
---	BOUNDRY OF CLEAR FLOOR SPACE OR MANEUVERING CLEARANCE
---	CENTERLINE
→	DIRECTION OF TRAVEL OR APPROACH
---	A WALL, FLOOR, CEILING OR OTHER ELEMENT CUT IN SECTION OR PLAN
---	A HIGHLIGHTED ELEMENT IN ELEVATION OR PLAN
---	LOCATION ZONE OF ELEMENT, CONTROL OR FEATURE







3 WALK TRENCH DRAIN
1 1/2" = 1'-0"



2 SITE PLAN - ENLARGED
1" = 20'-0"

WILEY STREET

MILLS AVE

MAIN STREET

Hwy. 50

1 FLOOR PLAN
1" = 30'-0"



2017-21

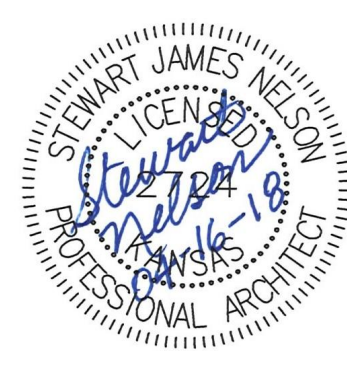
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WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
HOLCOMB MIDDLE SCHOOL**
HOLCOMB, KANSAS

SHEET TITLE:
ARCHITECTURAL SITE
PLAN
DATE:
4-16-2018

AS101

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SHEET TITLE:
HES DEMO PLAN

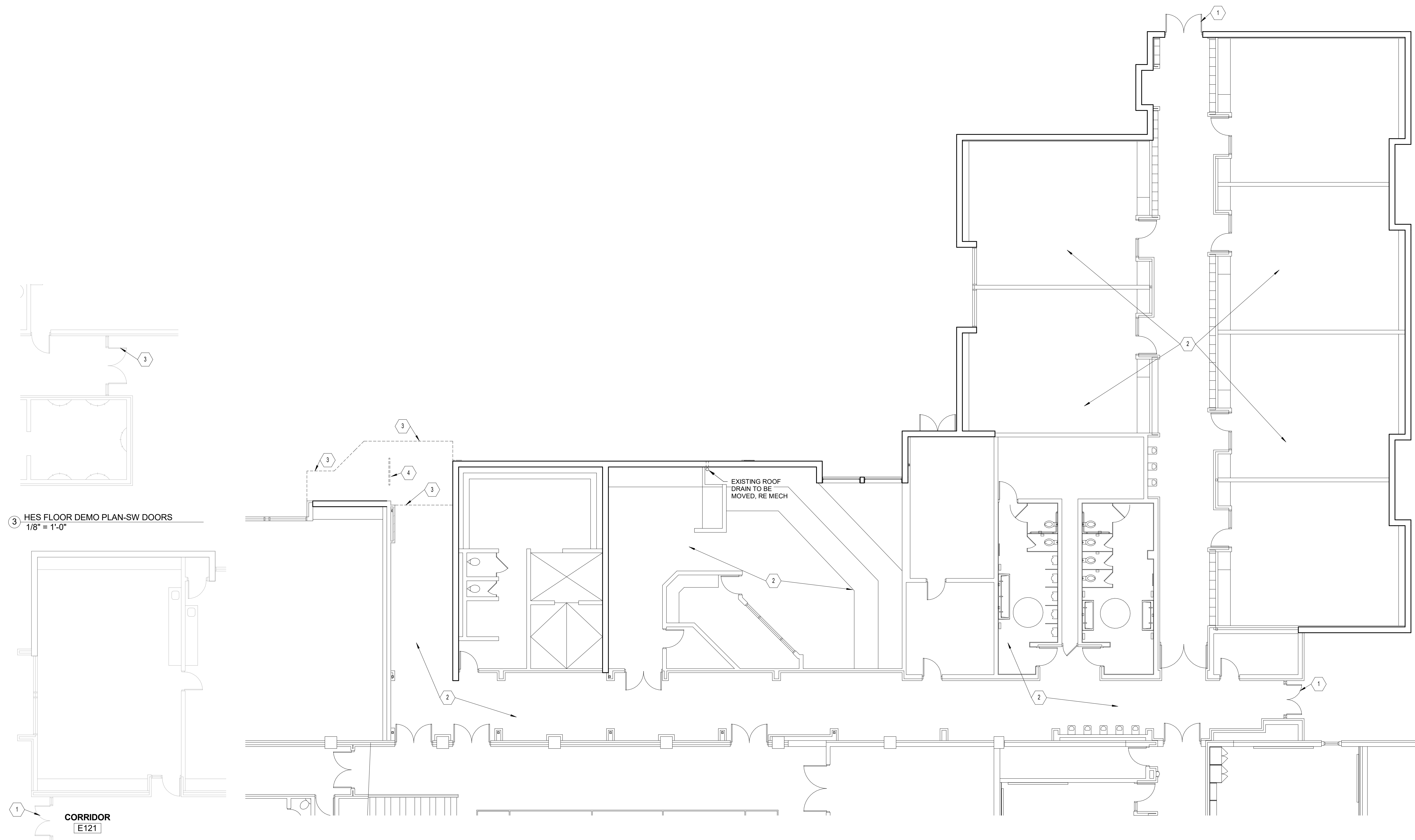
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4-16-2018

AD100

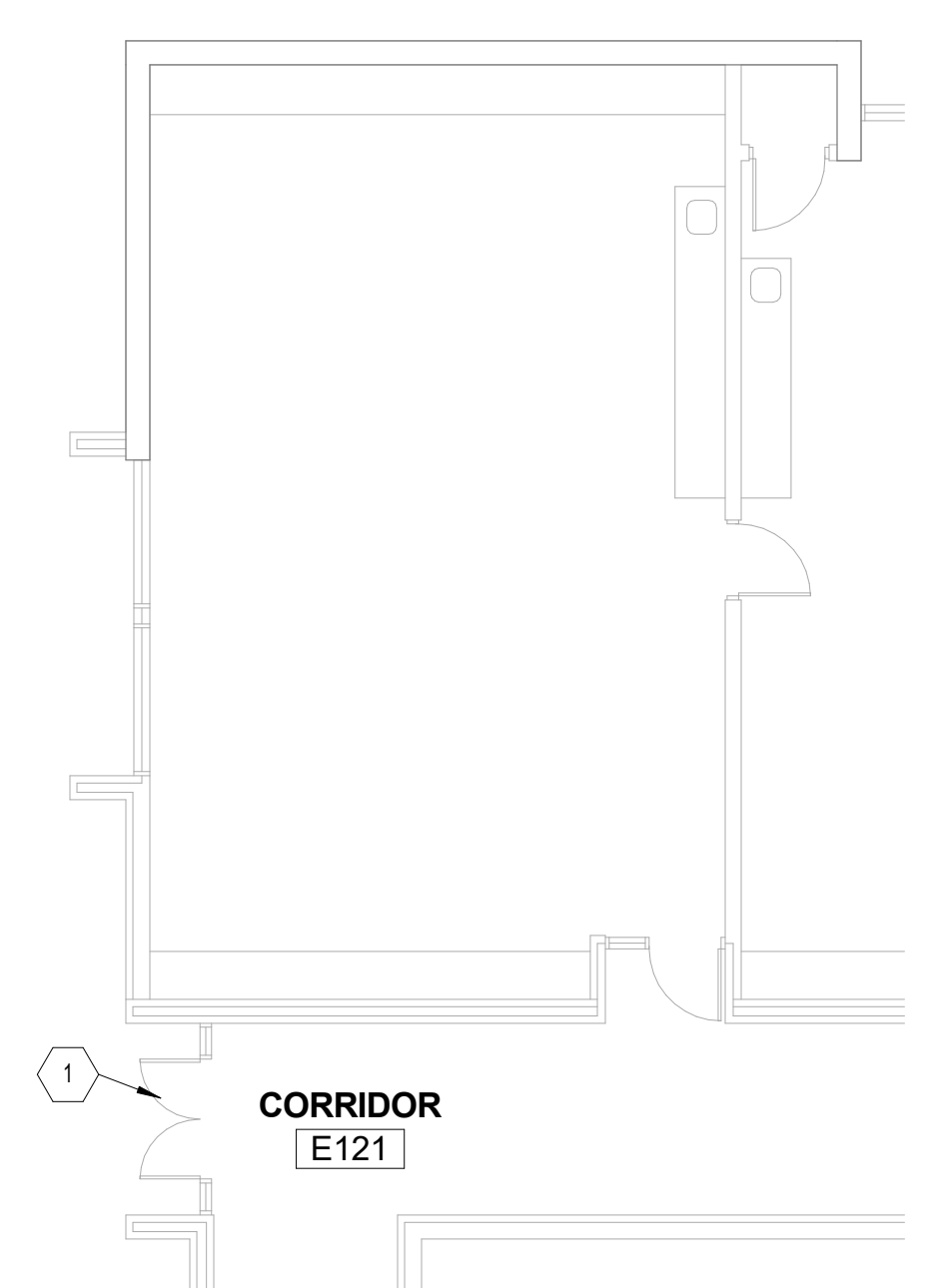
PLAN NOTES

COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

- 1 REMOVE EXISTING HM FRAME AND DOORS
- 2 REMOVE EXISTING SUSP CEILINGS, RE A103 FOR NEW CLGS
- 3 REMOVE EXISTING CONC SLABS
- 4 REMOVE EXISTING FOOT SCRAPER TO BE RELOCATED



3 HES FLOOR DEMO PLAN-SW DOORS
1/8" = 1'-0"



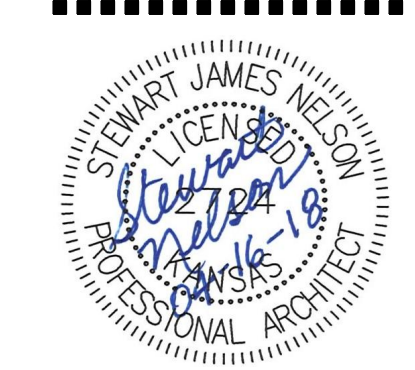
2 HES DEMO FLOOR PLAN-NORTH DOORS
1/8" = 1'-0"

1 HES DEMO FLOOR PLAN
1/8" = 1'-0"

4/17/2018 8:45:49 AM

PLAN NOTES

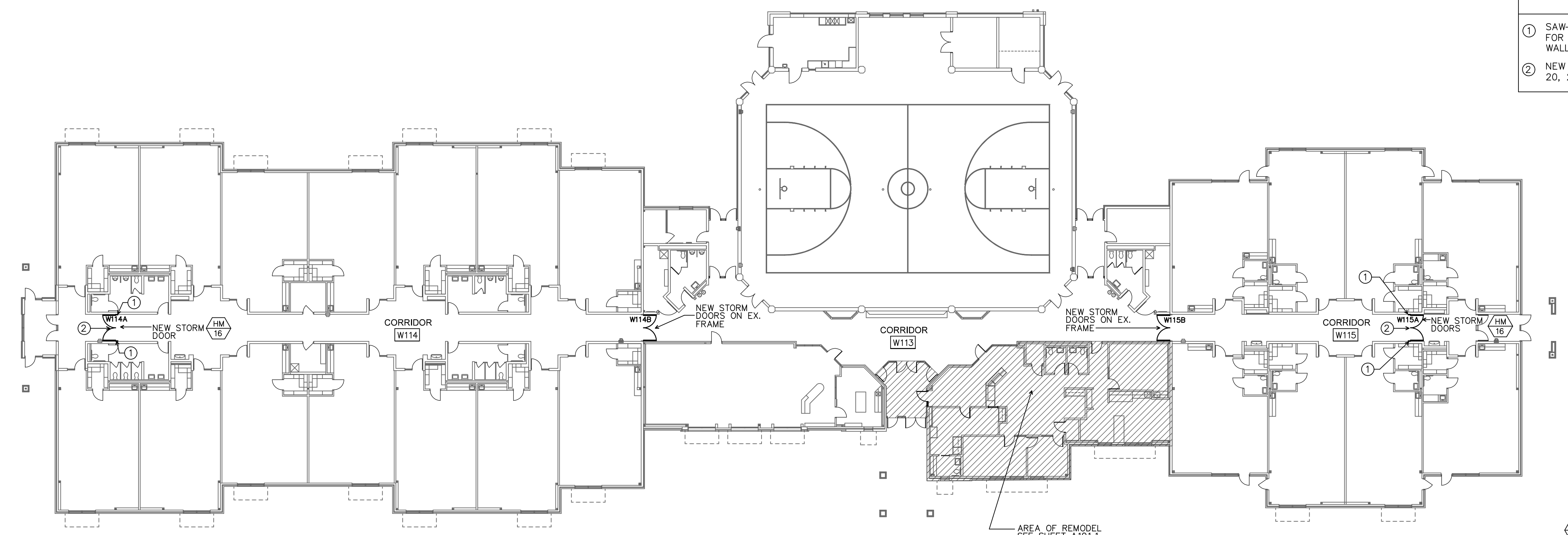
- ① SAW-CUT EX. SPLIT FACE BLOCK AS REQ'D FOR NEW H.M. FRAME TO SIT TIGHT TO EX. WALL. CAULK UPON INSTALLATION
- ② NEW REINFORCED DOOR HEADER, SEE DETAIL 20, 21, & 25/A501



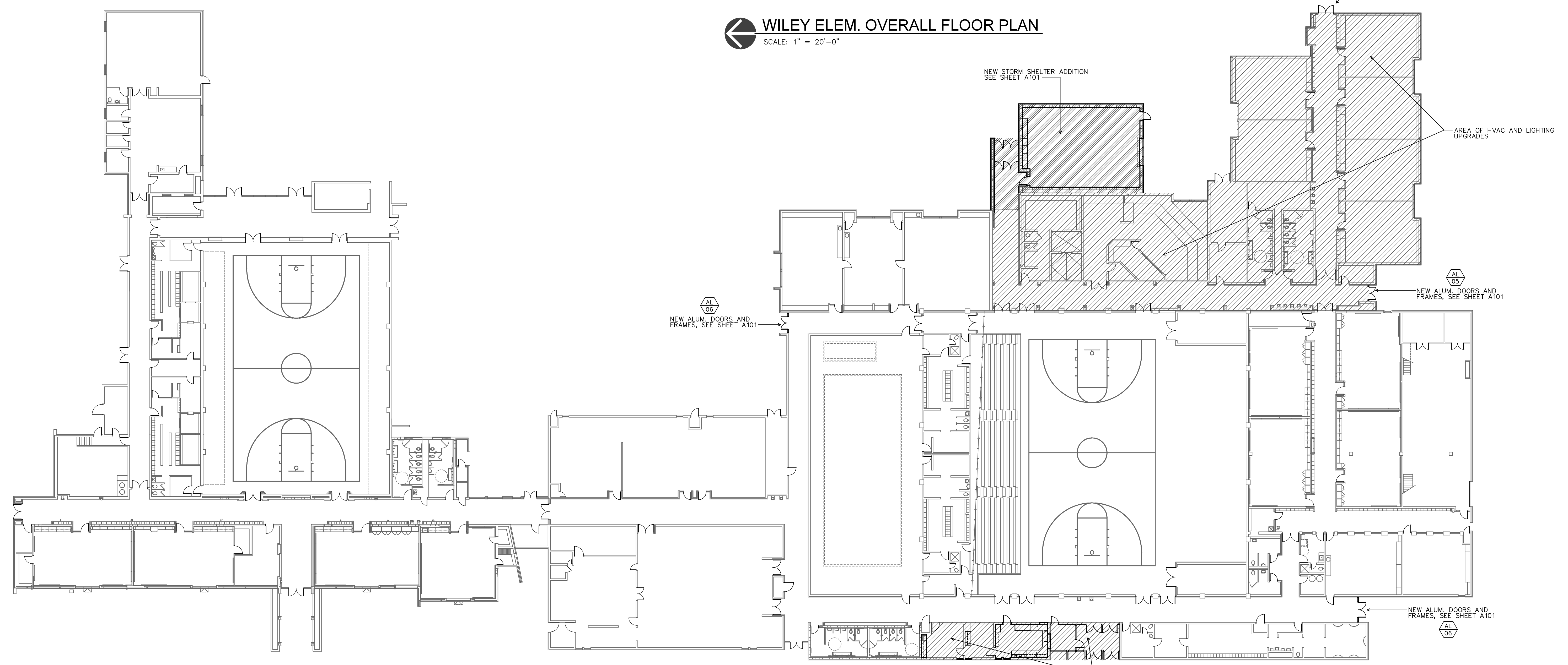
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WILEY ELEM. OVERALL FLOOR PLAN
SCALE: 1" = 20'-0"



HOLCOMB ELEM. OVERALL FLOOR PLAN
SCALE: 1" = 20'-0"

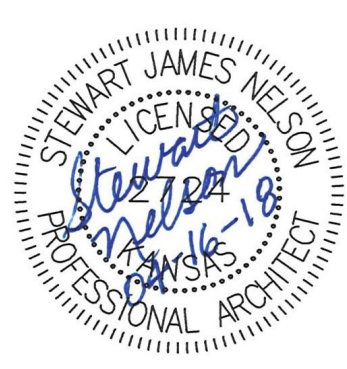
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SHEET TITLE:
OVERALL PLAN

DATE:
APRIL 16, 2018

A100



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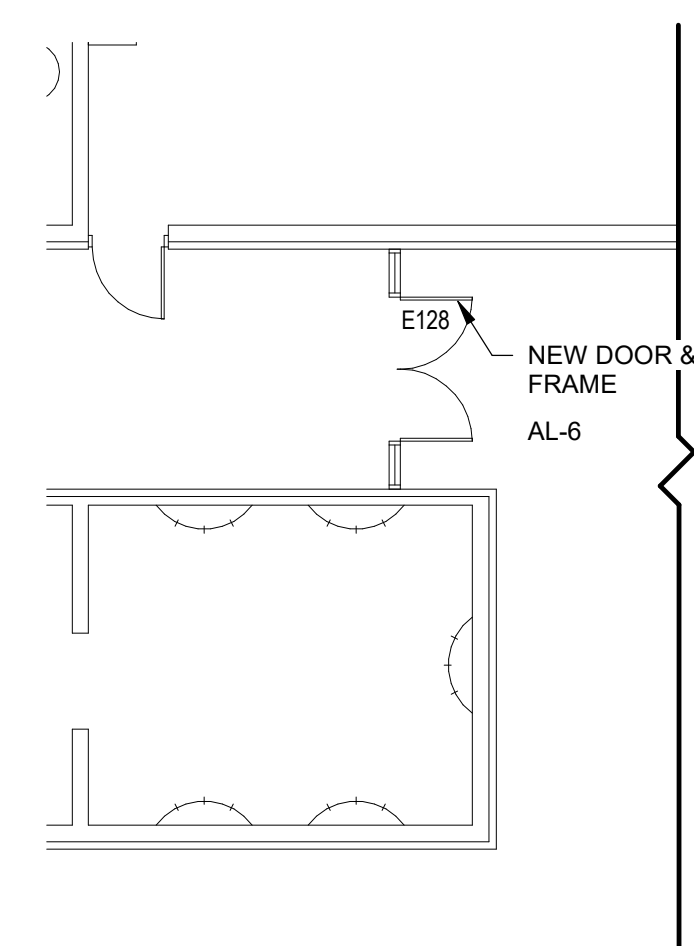
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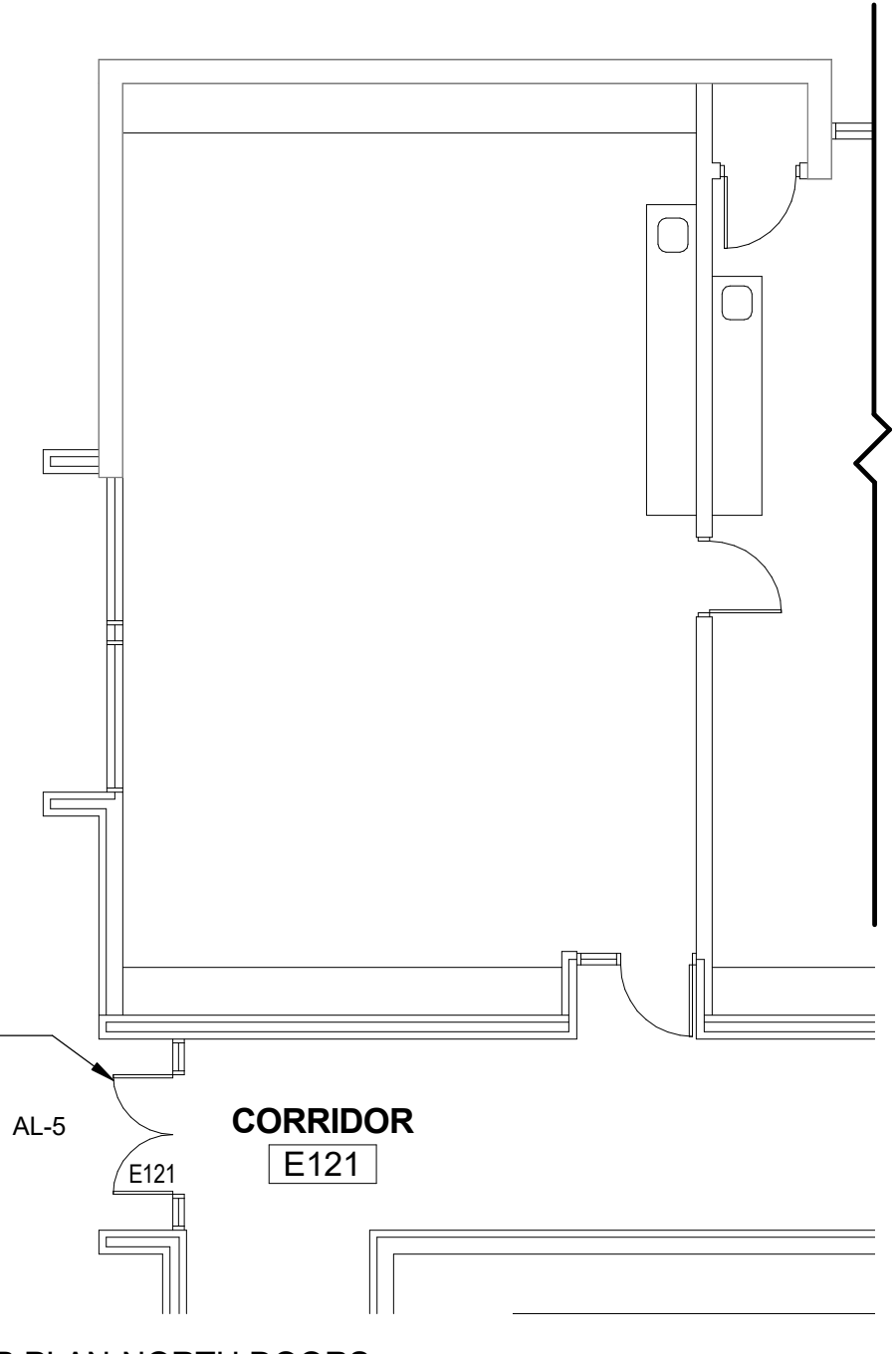
SHEET TITLE:
HES FLOOR PLANS

DATE:
4-16-2018

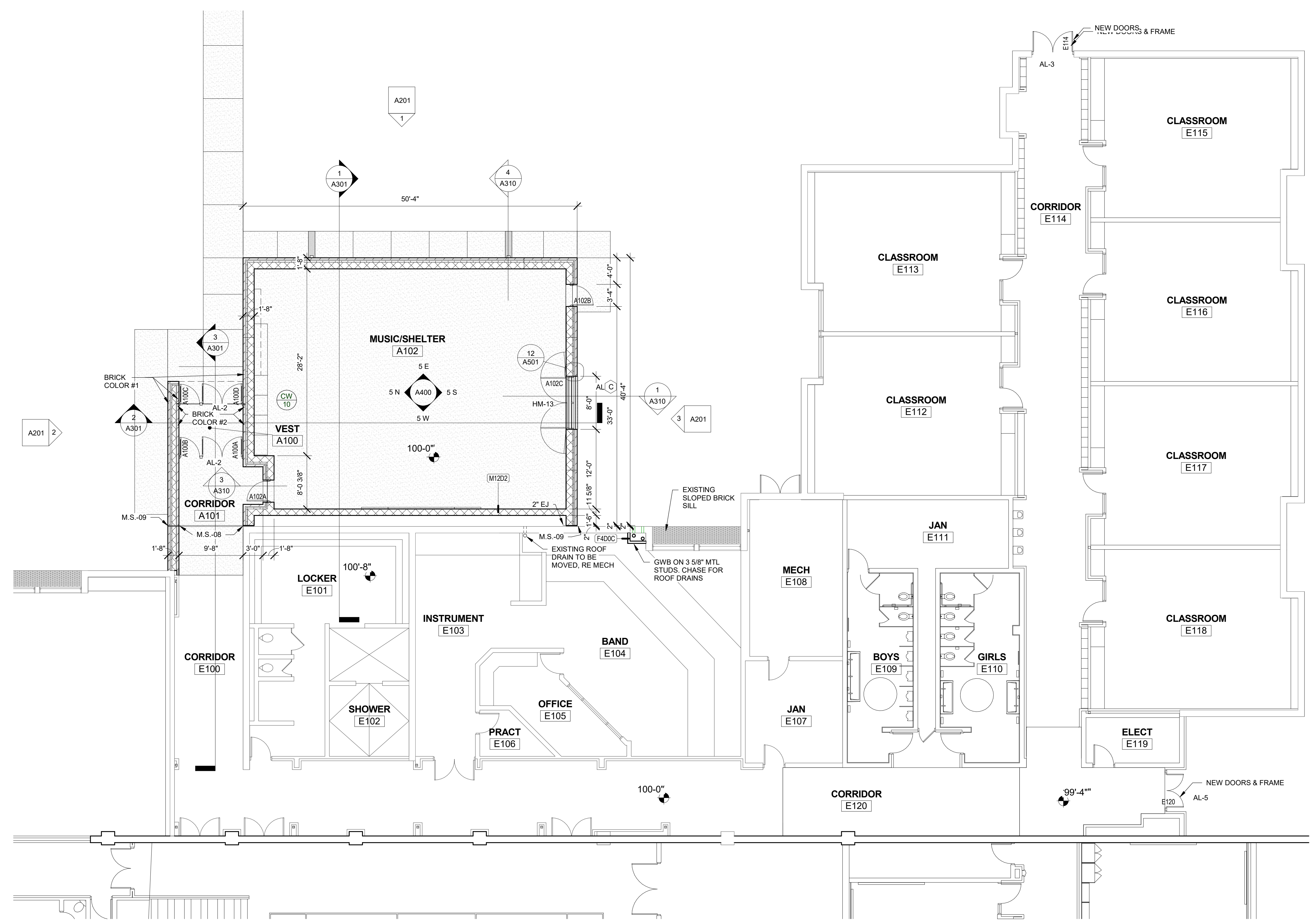
A101



3 HES FLOOR PLAN-SW DOORS
1/8" = 1'-0"



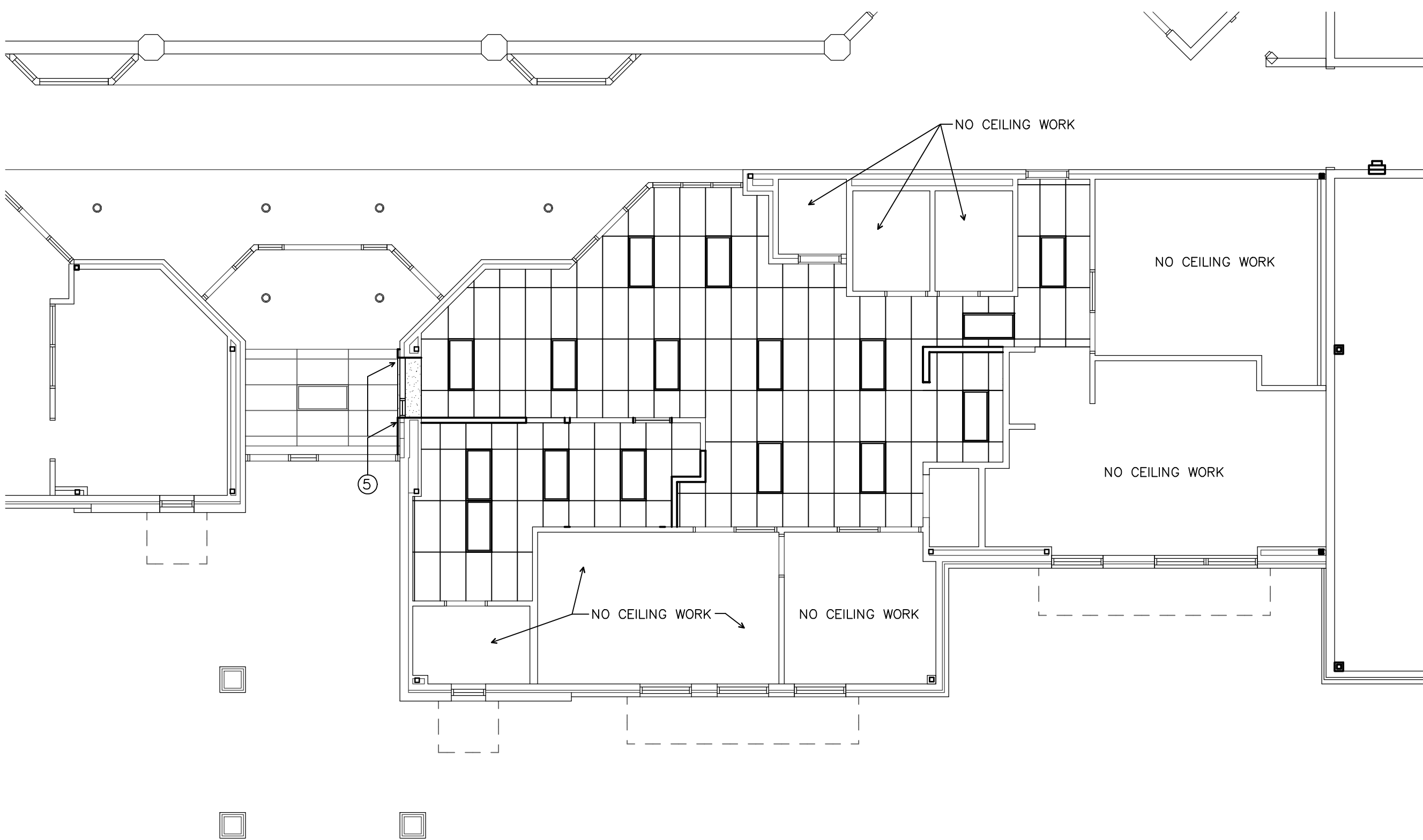
2 HES FLOOR PLAN-NORTH DOORS
1/8" = 1'-0"



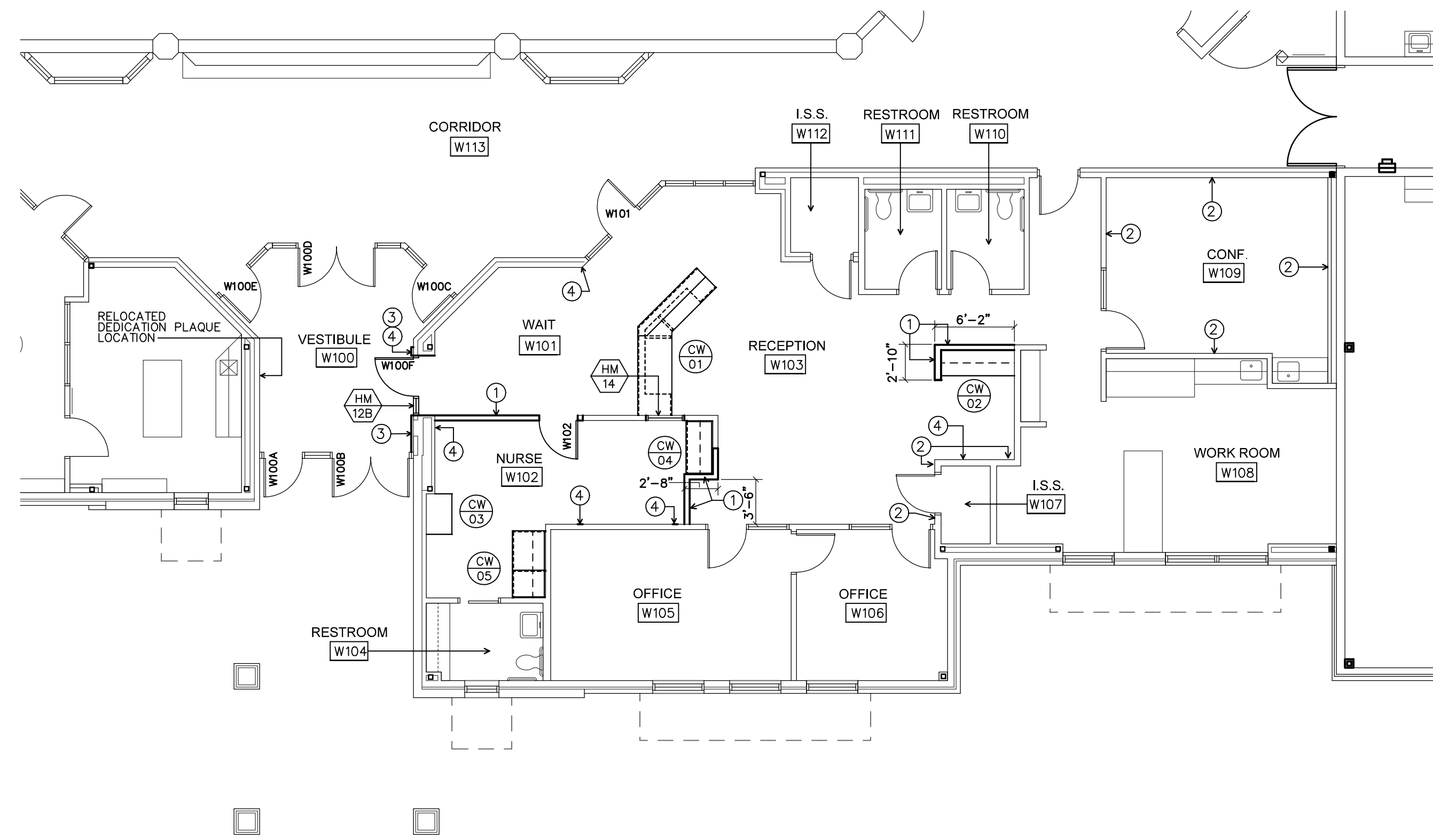
1 HES FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:
1. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD OR CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY EXISTING CONDITIONS OR DIMENSIONS THAT DO NOT AGREE WITH WHAT IS SHOWN ON THE DRAWINGS.
3. RE SHT A201 FOR PARTITION SCHEDULE.

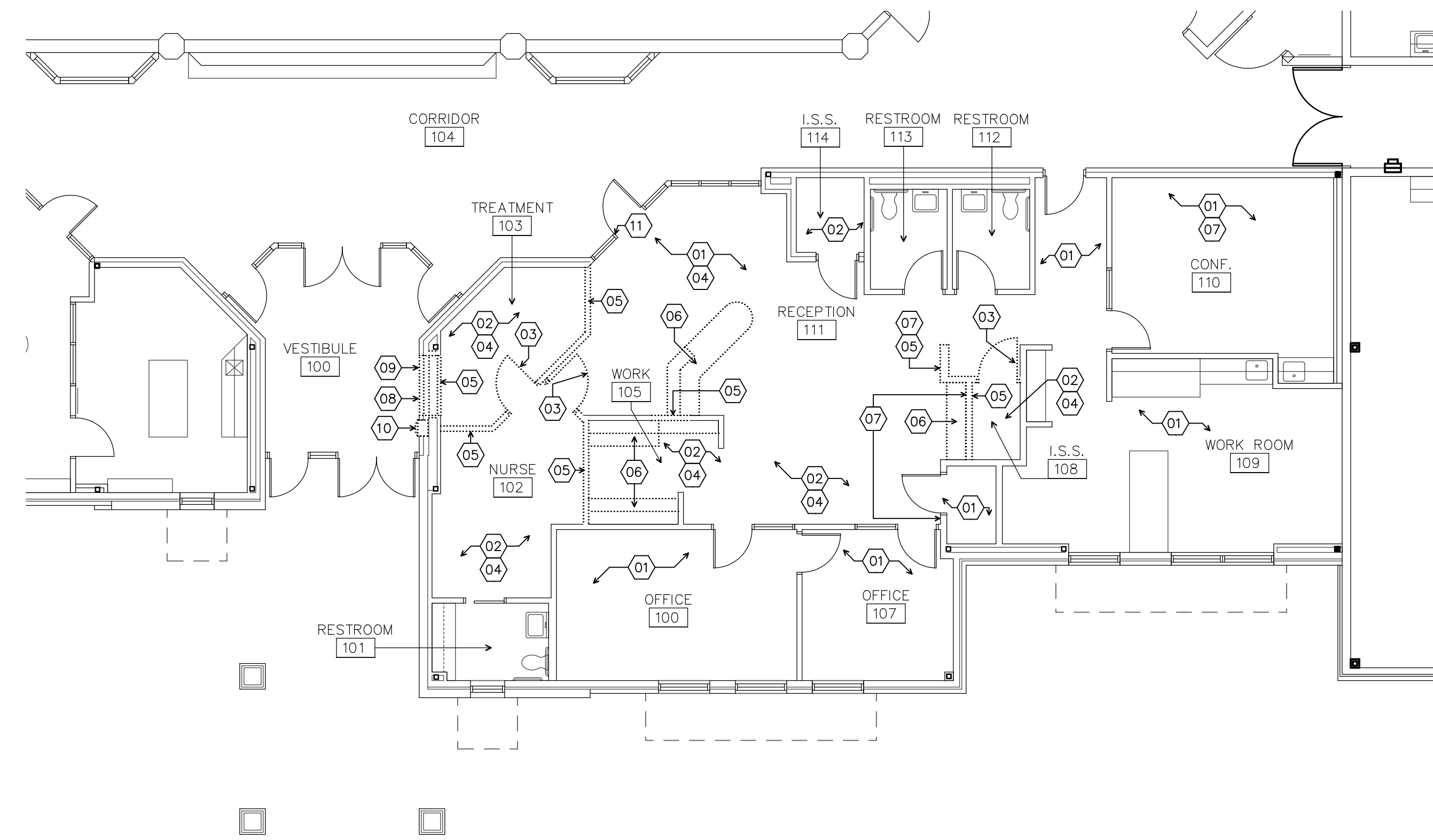
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REMODELED REFLECTED CEILING PLAN (WES)
SCALE: 1/8" = 1'-0"



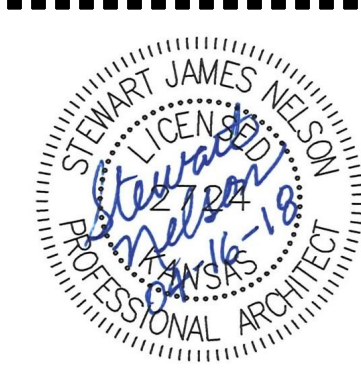
REMODELED FLOOR PLAN (WES)
SCALE: 1/8" = 1'-0"



DEMOLITION FLOOR PLAN (WES)
SCALE: 1/8" = 1'-0"

- DEMOLITION NOTES**
- 01 EXISTING CARPET FLOORING TO BE REMOVED
 - 02 EXISTING SHEET VINYL FLOORING TO BE REMOVED
 - 03 EXISTING DOOR AND FRAME TO BE REMOVED
 - 04 EXISTING CEILING GRID TO BE REMOVED
 - 05 EXISTING GYP. BD. WALL TO BE REMOVED
 - 06 EXISTING CASEWORK TO BE REMOVED
 - 07 EXISTING WALL COVERING TO BE REMOVED
 - 08 EXISTING SPLIT FACE MSRY. VENEER TO BE REMOVED AS REQ'D FOR INSTALLATION OF NEW ALUM. DOOR SYSTEM
 - 09 EXISTING DEDICATION PLAQUE TO BE REMOVED AND RELOCATED PER DRAWING THIS SHEET
 - 10 EXISTING FIRE EXTINGUISHER CABINET TO BE REMOVED
 - 11 EXISTING HOLLOW METAL DOOR FRAME TO BE MODIFIED AS REQ'D TO ACCEPT NEW SECURITY DOOR HARDWARE

- PLAN NOTES**
- 1 NEW 3 5/8" METAL STUD WALL WITH 5/8" GYP. BD. EACH FACE AND 3 1/2" BATT. INSULATION
 - 2 EXISTING WALL TO BE SKIM COATED WITH ORANGE PEEL TEXTURE AS REQ'D AFTER REMOVAL OF WALL COVERINGS
 - 3 NEW 1 1/2" METAL STUDS WITH 5/8" GYP. BD. ON VEST. SIDE
 - 4 STOP FURRING AT FACE OF EXISTING SOFFIT ABOVE
 - 5 EXISTING CLG. GRID TO BE REVISED AS REQ'D FOR NEW WALL FURRING



201721

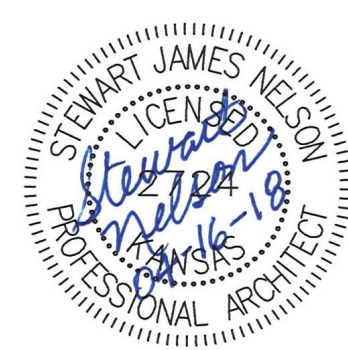
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HOLCOMB MIDDLE SCHOOL

SHEET TITLE:
WILEY ELEM. DEMO PLAN,
FLOOR PLAN AND RCP

DATE:
APRIL 16, 2018

A101.1

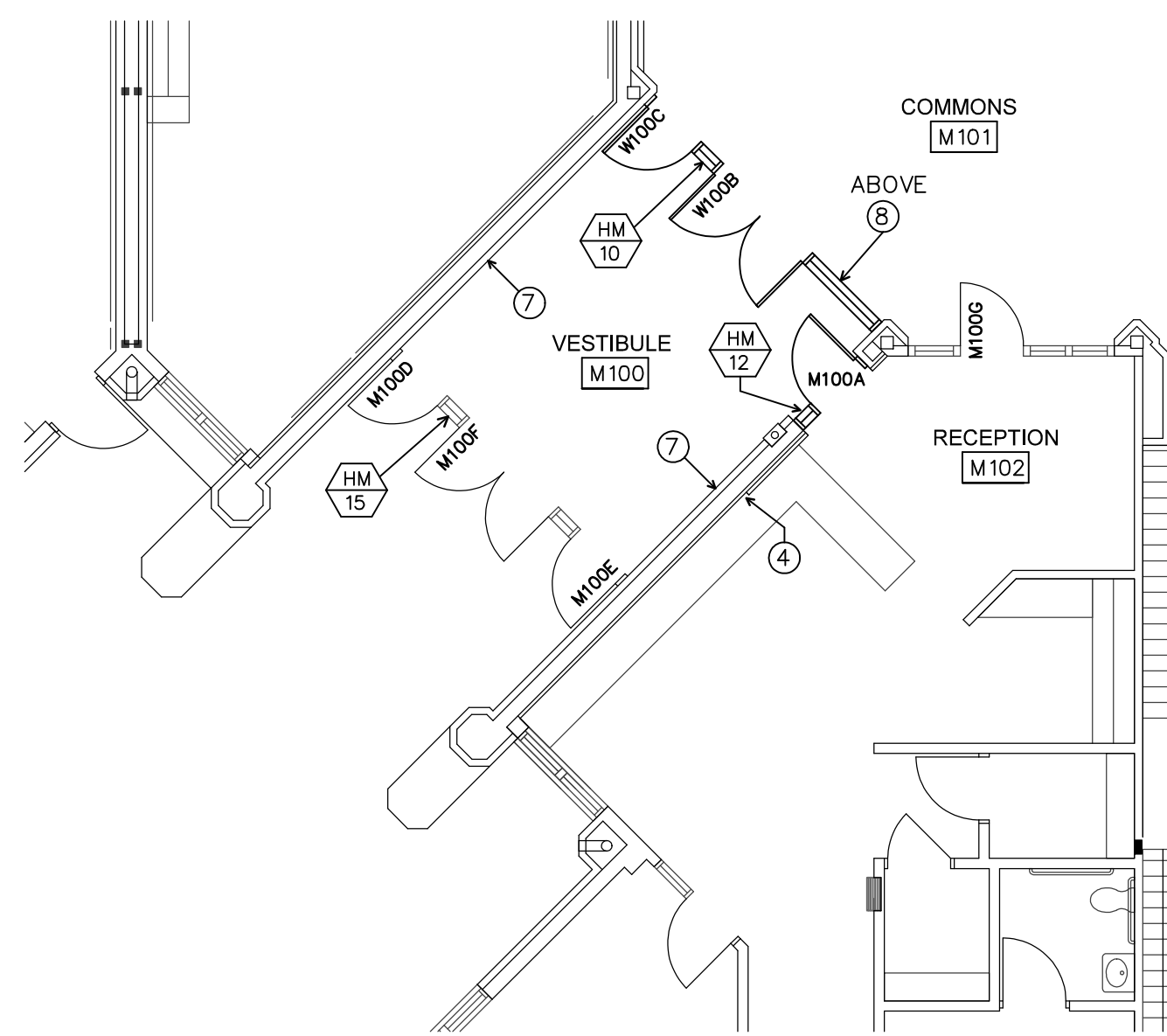


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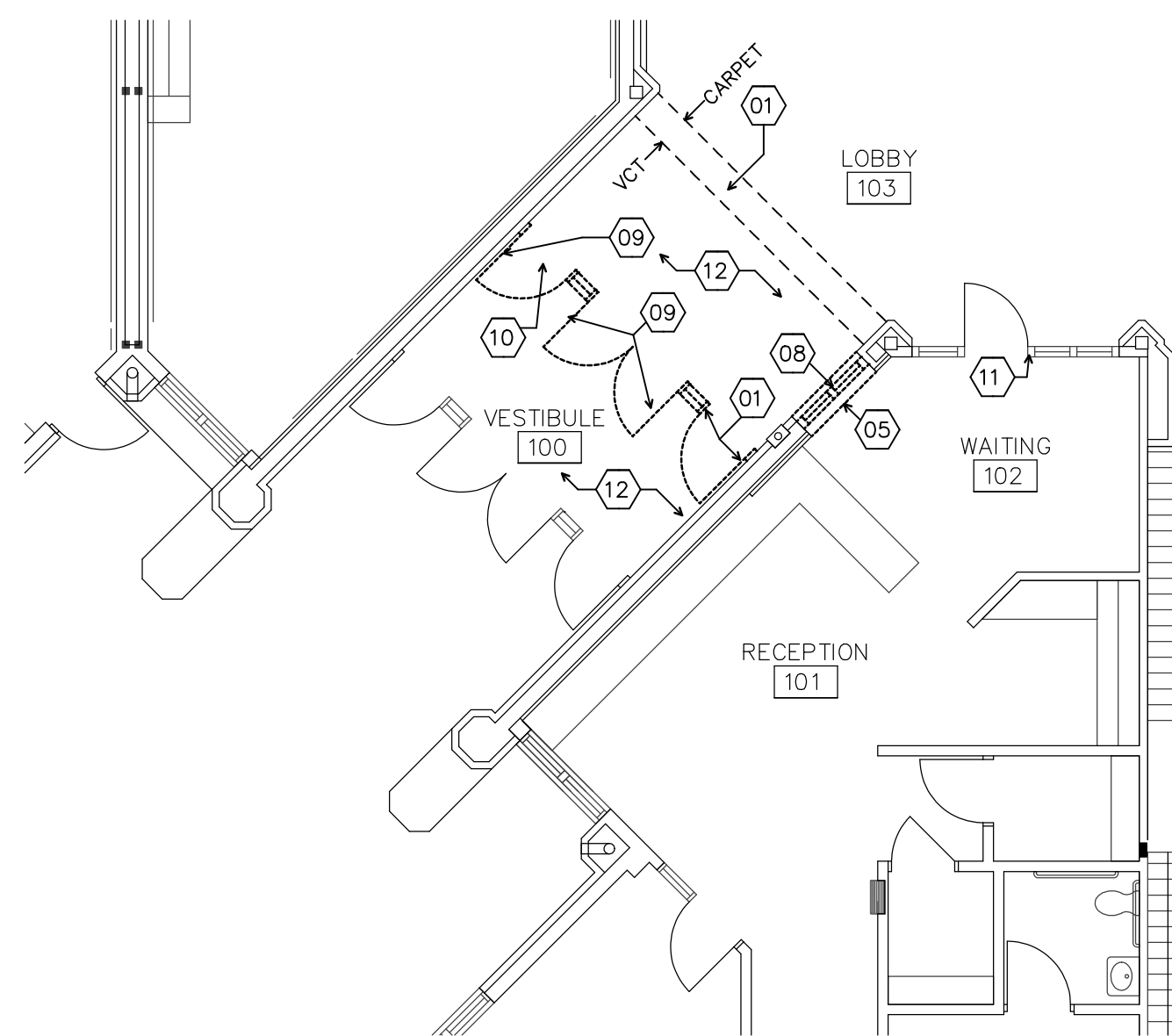
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- ### PLAN NOTES
- ① NEW 1 1/2" METAL STUDS WITH 5/8" GYP. BD. ON VEST. SIDE
 - ② 3 5/8" METAL STUDS WITH 5/8" GYP. BD. EACH FACE ABOVE WINDOW
 - ③ NEW 4" BRICK VENEER TYPE 2 WITH 8" CMU BACK-UP BELOW WINDOW
 - ④ ROUTE NEW ACCESS CONTROL CONDUIT AND CONTROL PANEL AS REQ'D. PATCH WALL AS REQ'D
 - ⑤ INSTALL NEW VERTICAL SLIDING SERVICE WINDOW. SEE SPEC. 084313 FOR INFO.
 - ⑥ INSTALL NEW HORIZONTAL SLIDING SERVICE WINDOW. SEE SPEC. 084313 FOR INFO.
 - ⑦ CLEAN/REPAIR BRICK AS REQ'D AFTER DEMO OF EX. HOLLOW METAL FRAME
 - ⑧ NEW STUD WALL WITH 5/8" GYP. BD. EACH FACE AND SOUND ABSORBING PANELS. SEE DETAIL 05/A3.1

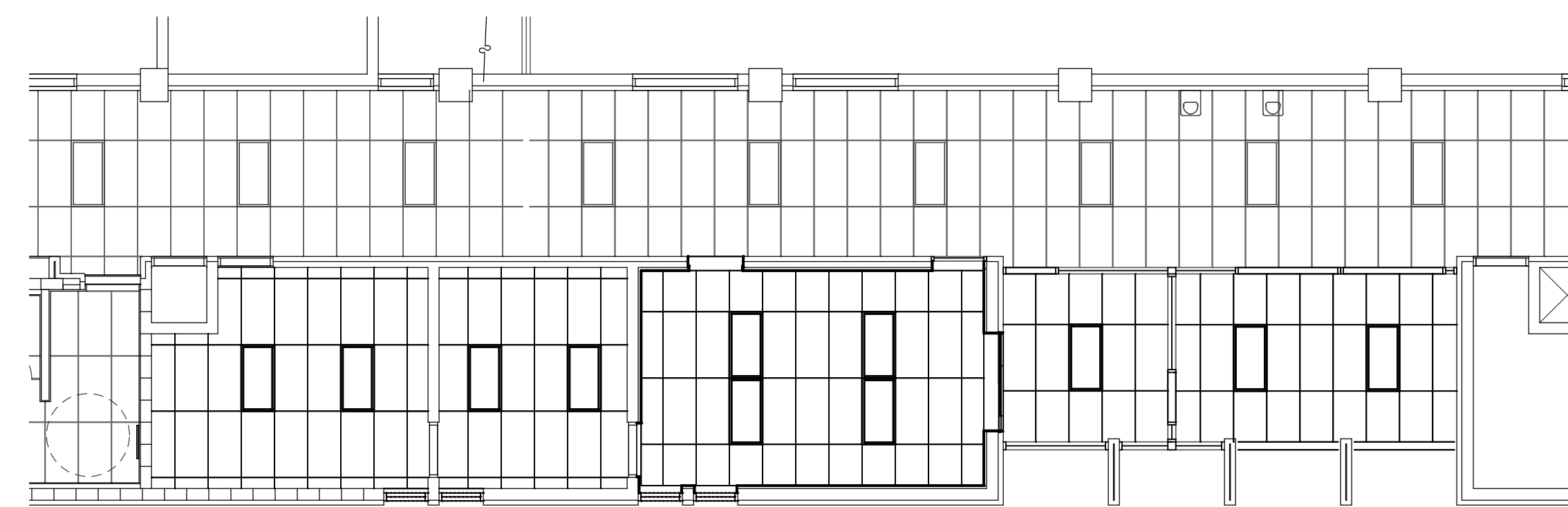
- ### DEMOLITION NOTES
- ① EXISTING CARPET FLOORING TO BE REMOVED
 - ② EXISTING CEILING GRID TO BE REMOVED
 - ③ EXISTING DOOR AND FRAME TO BE REMOVED
 - ④ EXISTING ALUM. STOREFRONT SYSTEM TO BE REMOVED
 - ⑤ EXISTING BRICK AND CMU WALL TO BE REMOVED AS REQ'D
 - ⑥ EXISTING CASEWORK TO BE REMOVED
 - ⑦ EXISTING WINDOW SYSTEM TO BE REMOVED
 - ⑧ EXISTING HOLLOW METAL WINDOW SYSTEM TO BE REMOVED AS REQ'D FOR NEW DOOR
 - ⑨ EXISTING HOLLOW METAL DOOR TO BE REMOVED AND RELOCATED PER NEW PLAN
 - ⑩ EXISTING AUTOMATIC DOOR OPERATOR TO BE REMOVED
 - ⑪ EXISTING HOLLOW METAL DOOR FRAME TO BE MODIFIED AS REQ'D TO ACCEPT NEW SECURITY DOOR HARDWARE



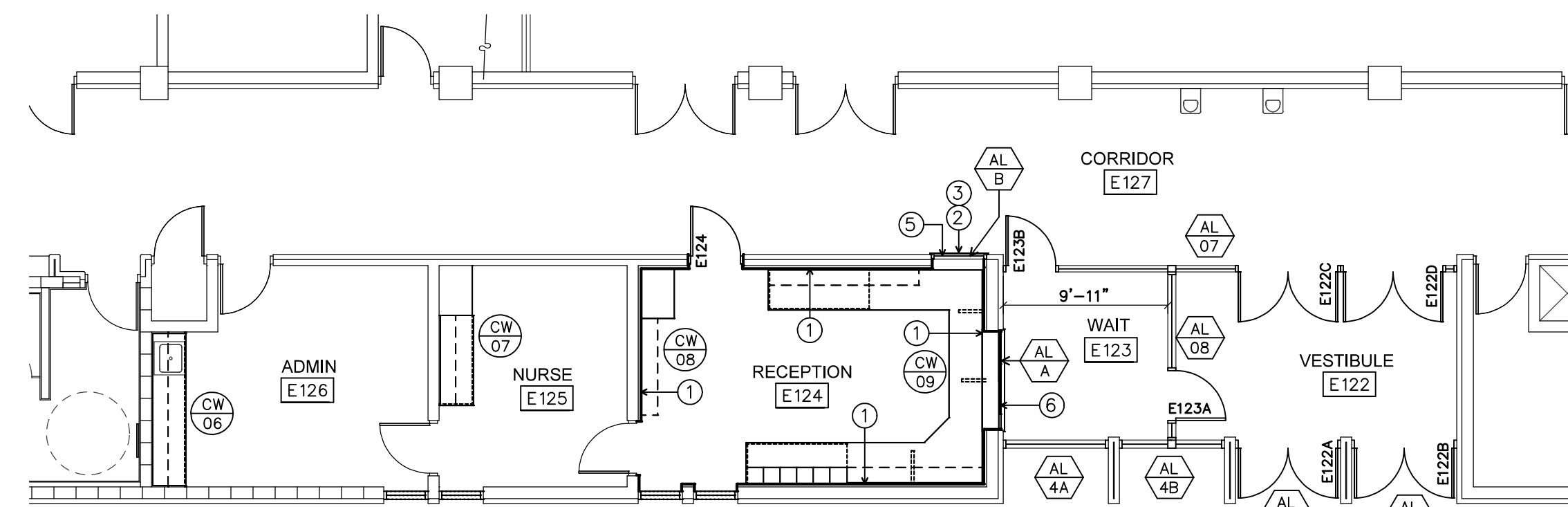
← **REMODELED FLOOR PLAN (HMS)**
SCALE: 1/8" = 1'-0"



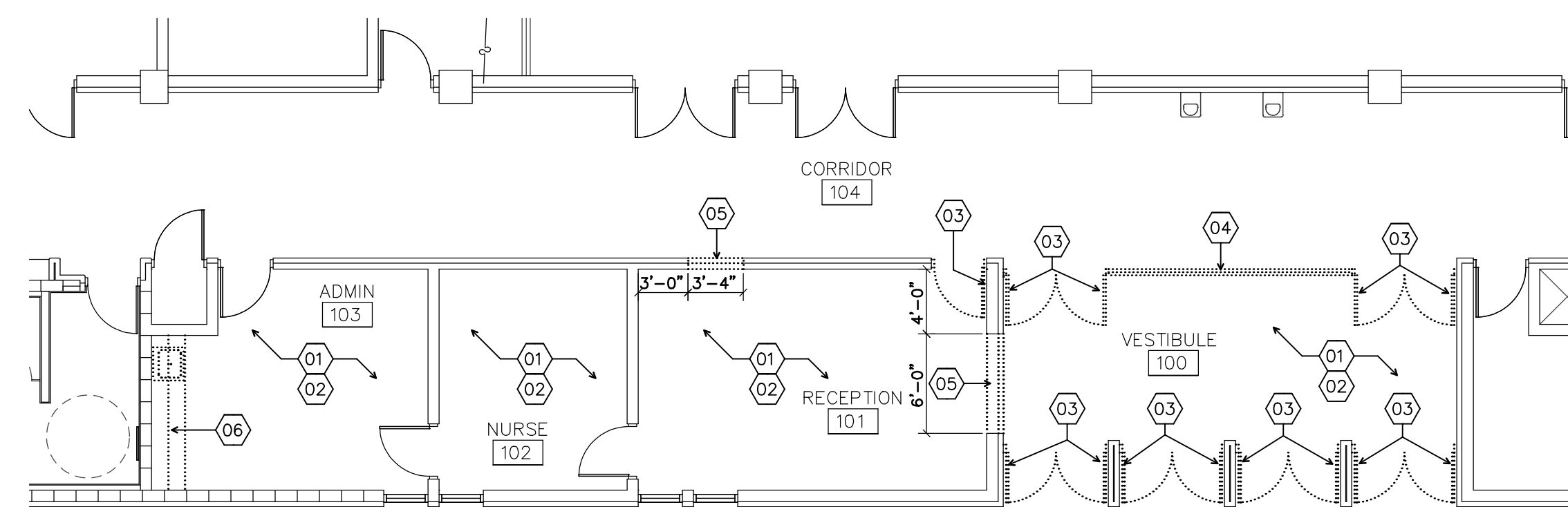
← **DEMOLITION FLOOR PLAN (HMS)**
SCALE: 1/8" = 1'-0"



← **REMODELED REFLECTED CEILING PLAN (HES)**
SCALE: 1/8" = 1'-0"



← **REMODELED FLOOR PLAN (HES)**
SCALE: 1/8" = 1'-0"



← **DEMOLITION FLOOR PLAN (HES)**
SCALE: 1/8" = 1'-0"

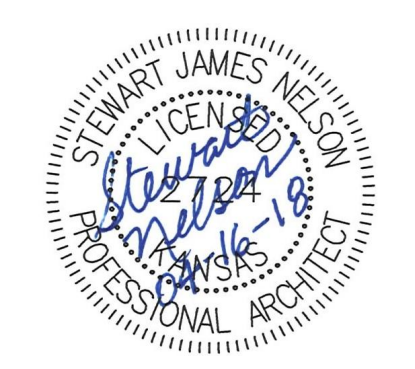
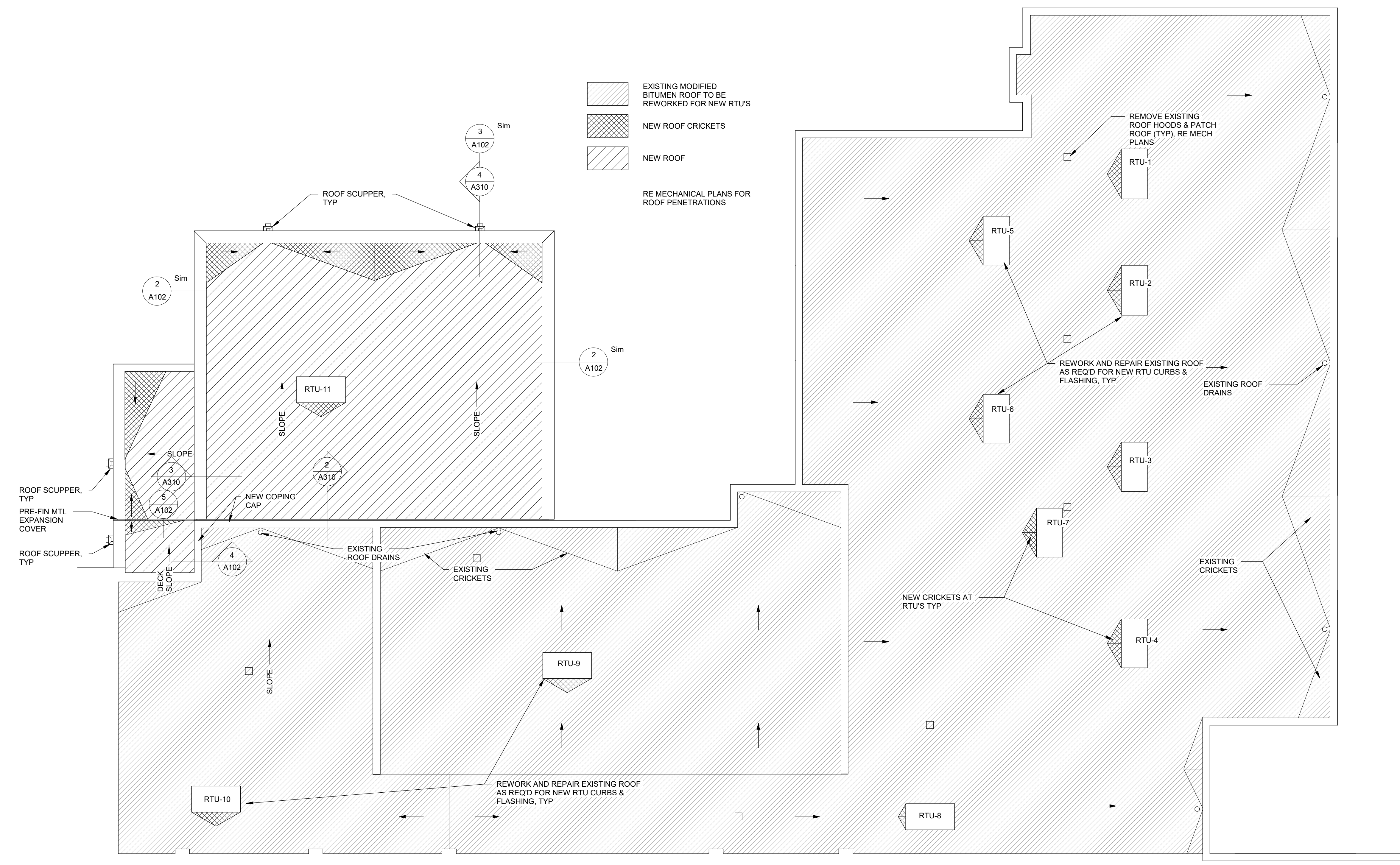
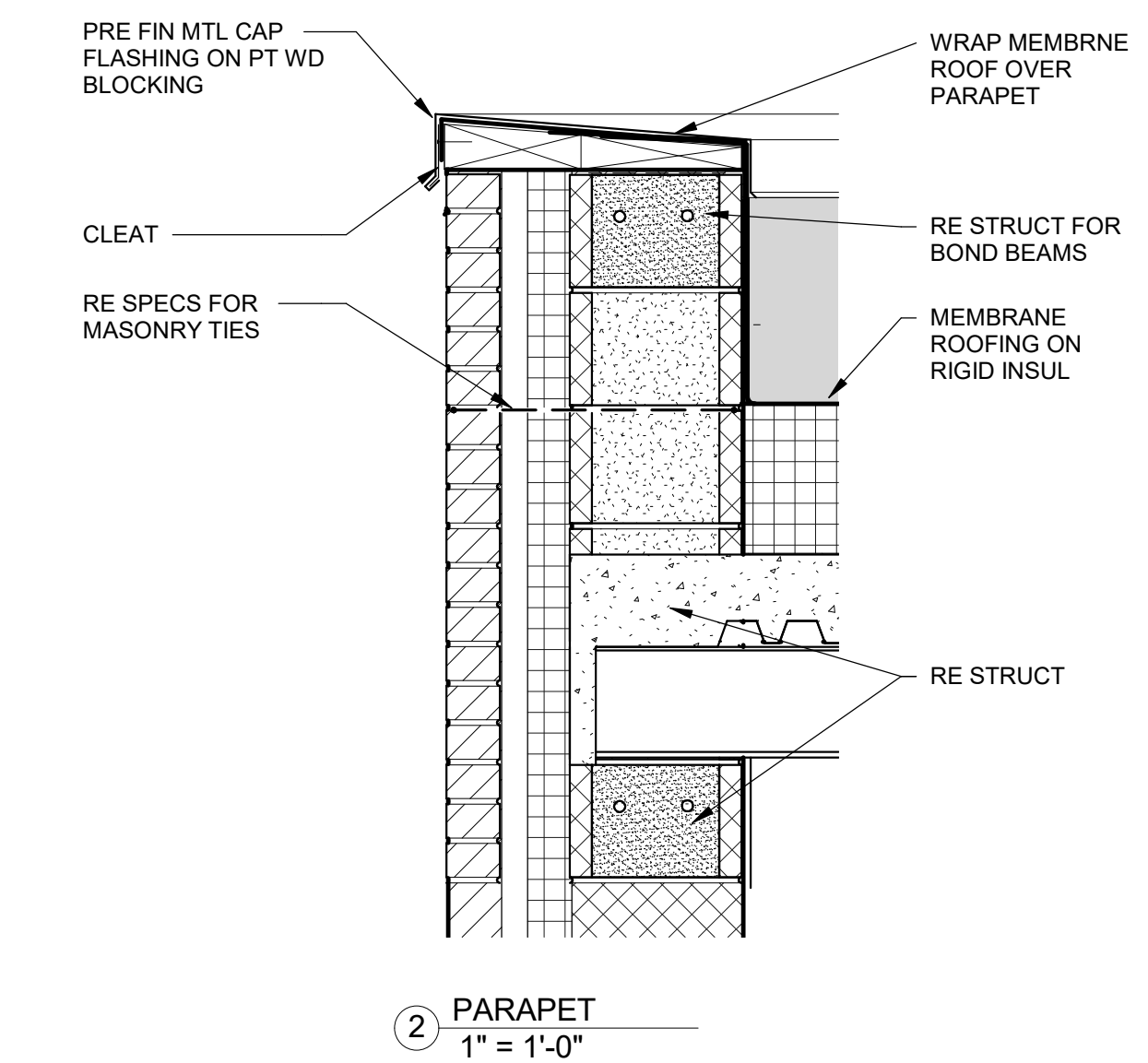
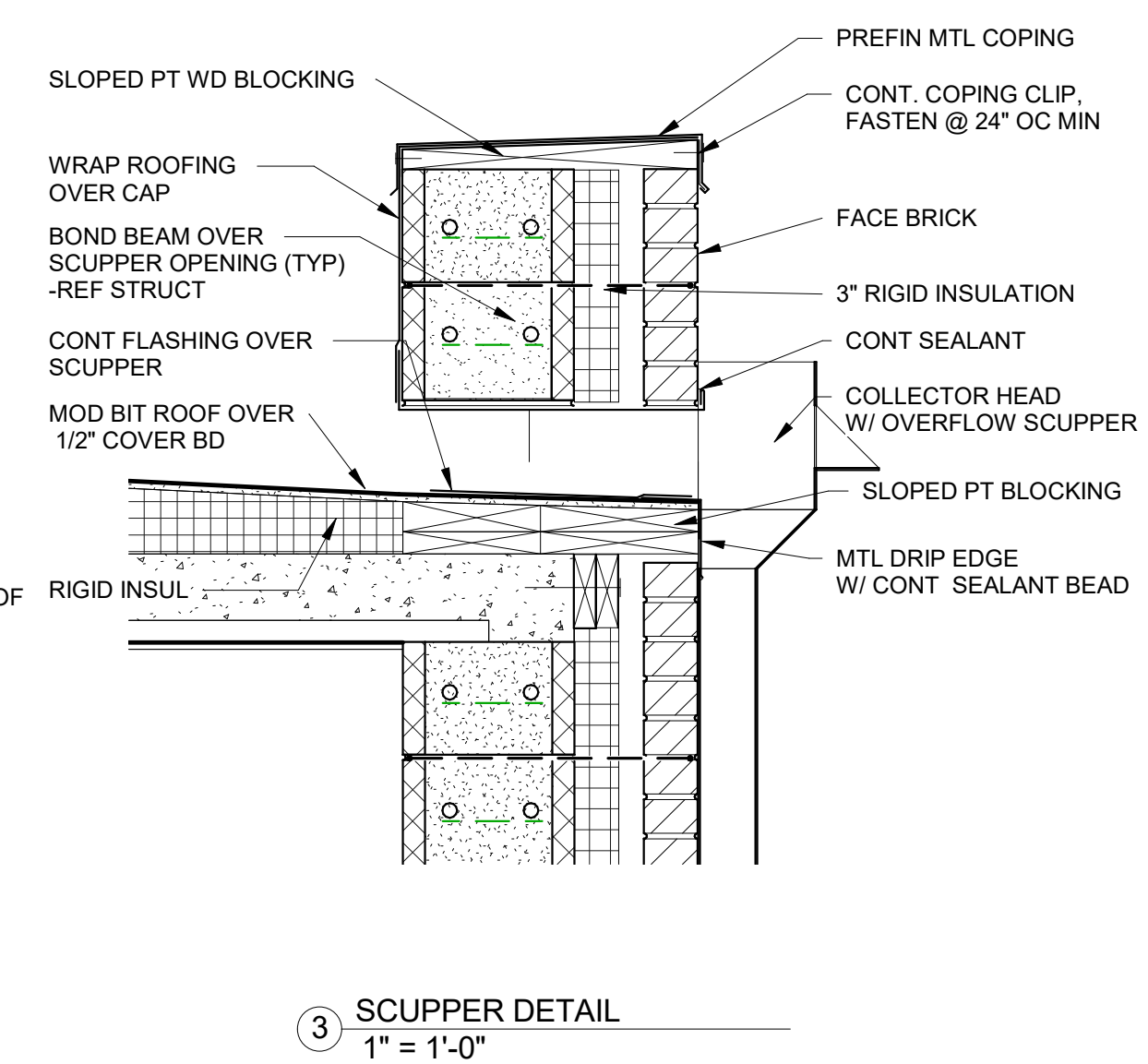
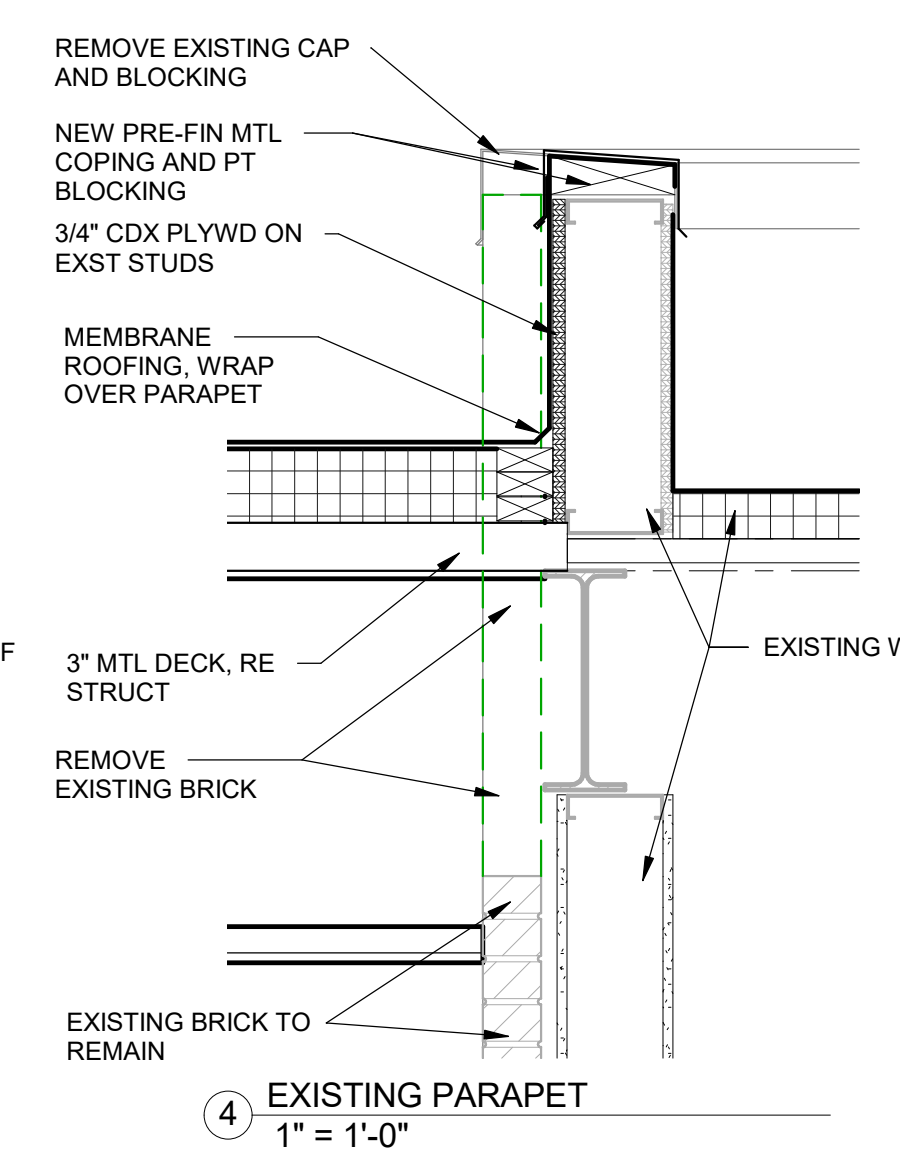
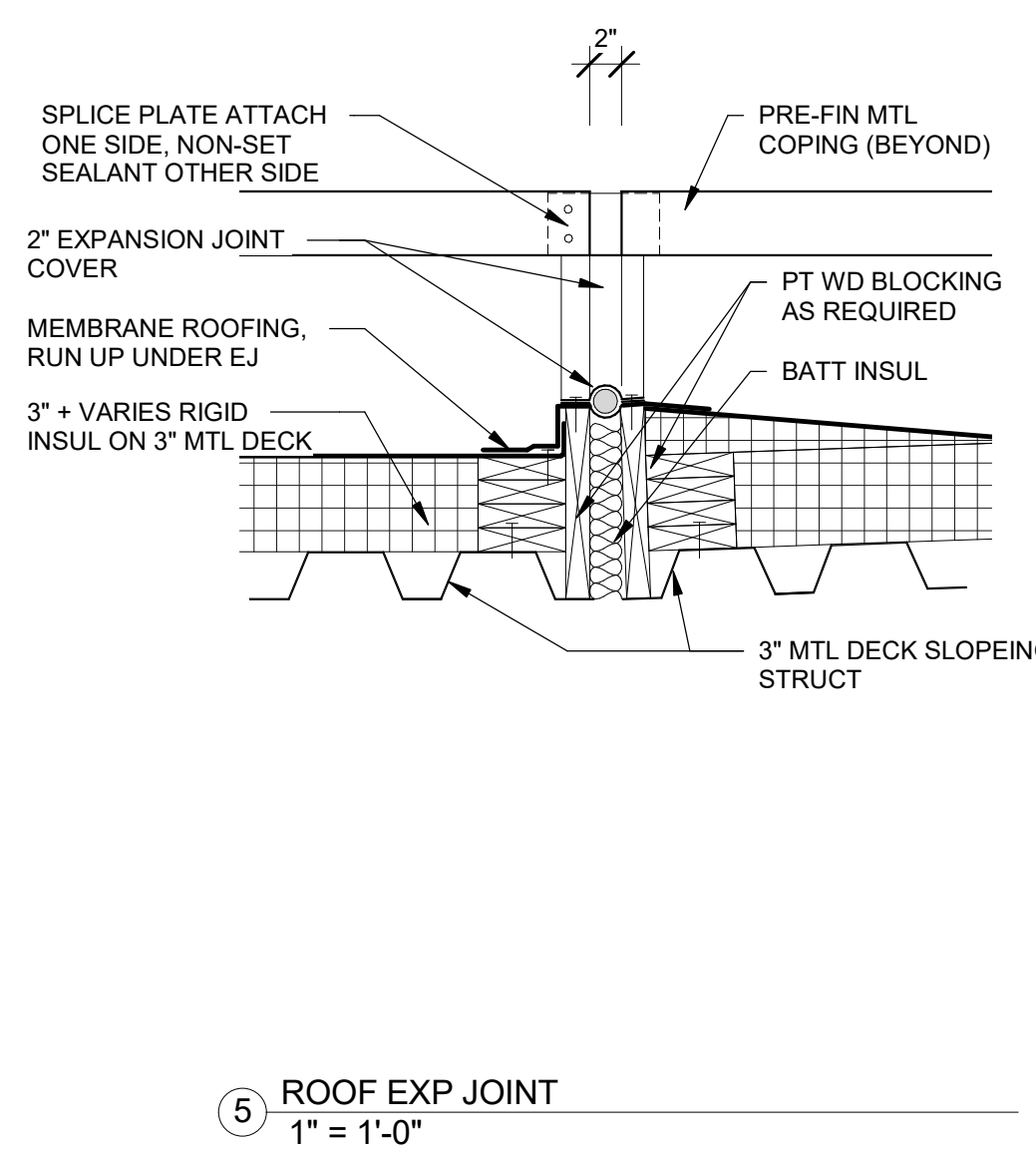
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SHEET TITLE:
 HES, & HMS DEMO PLAN,
 FLOOR PLAN AND RCP

DATE:
 APRIL 16, 2018

A101.2

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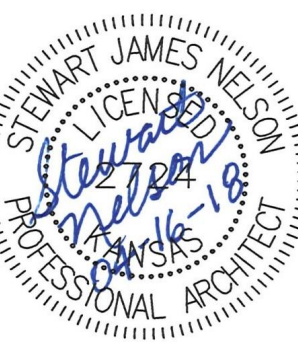
**SAFETY AND SECURITY UPGRADES TO
WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
HOLCOMB MIDDLE SCHOOL**
HOLCOMB, KANSAS

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SHEET TITLE:
ROOF PLAN

DATE:
4-16-2018

A102



2017-21

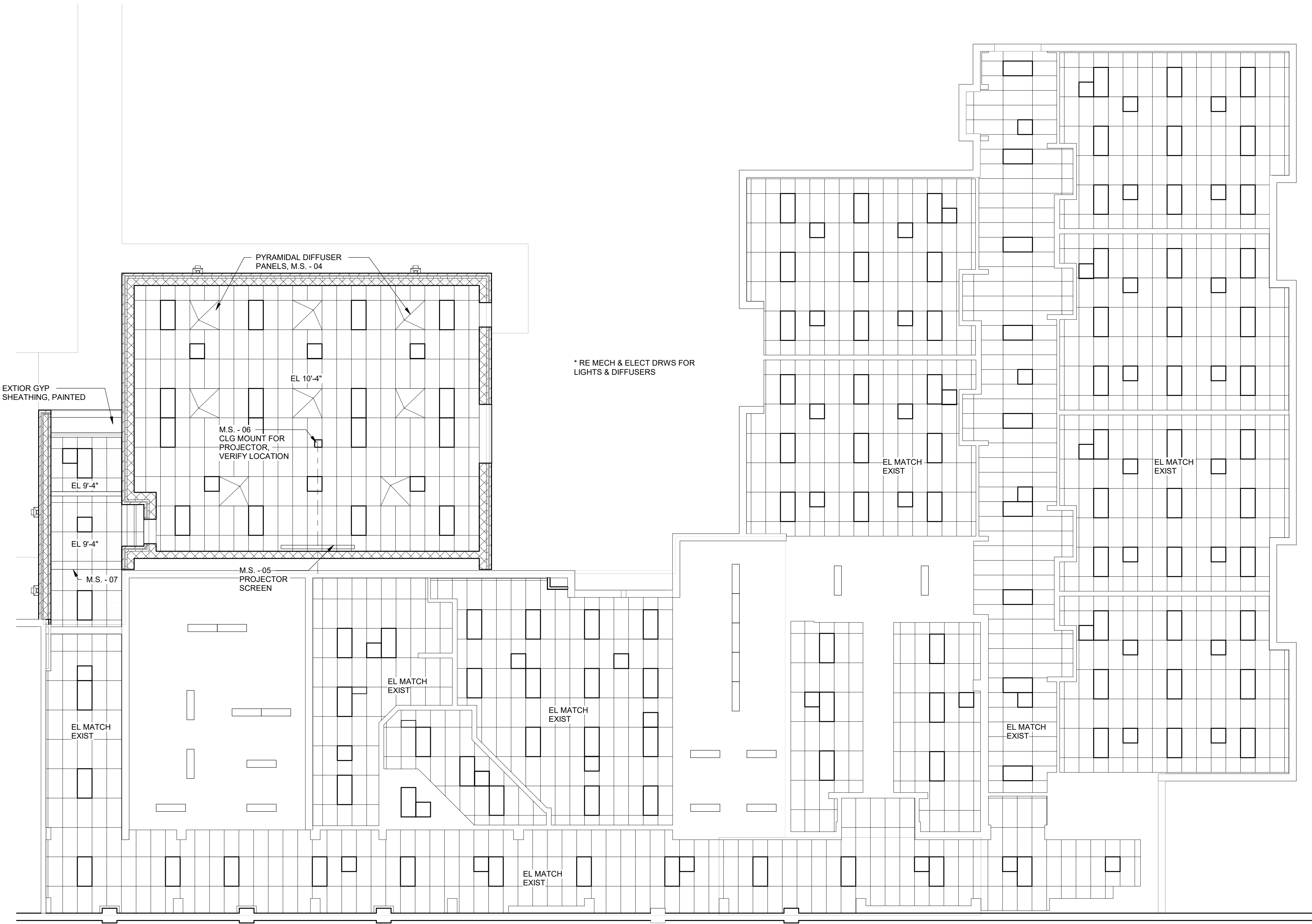


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SHEET TITLE:
CEILING PLAN
DATE:
4-16-2018

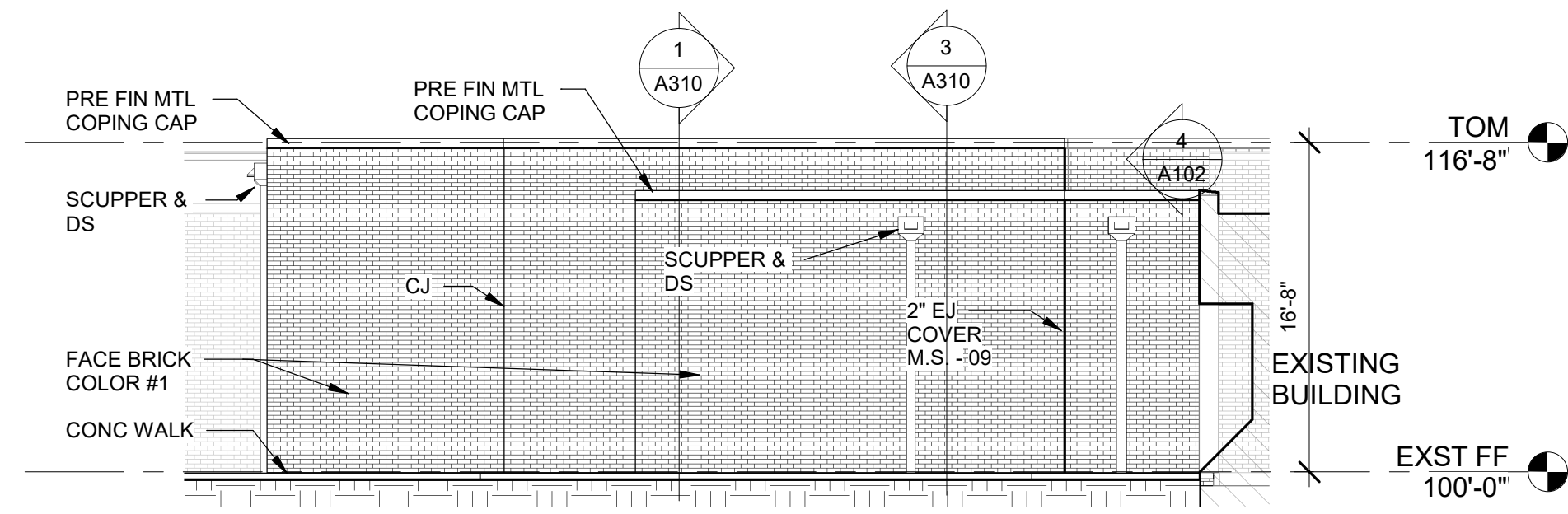
A103



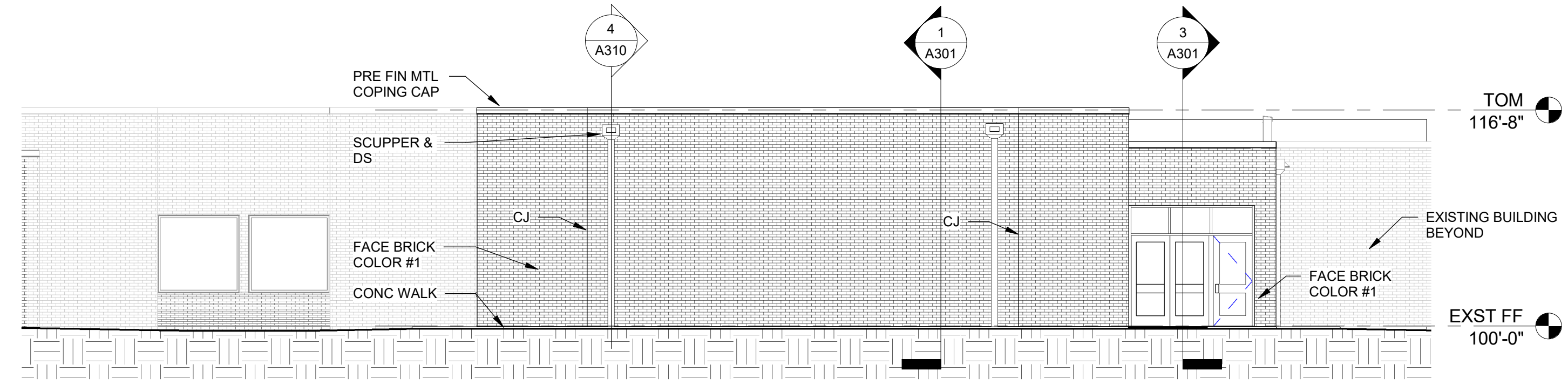
* RE MECH & ELECT DRWS FOR LIGHTS & DIFFUSERS

1 CEILING PLAN
1/8" = 1'-0"

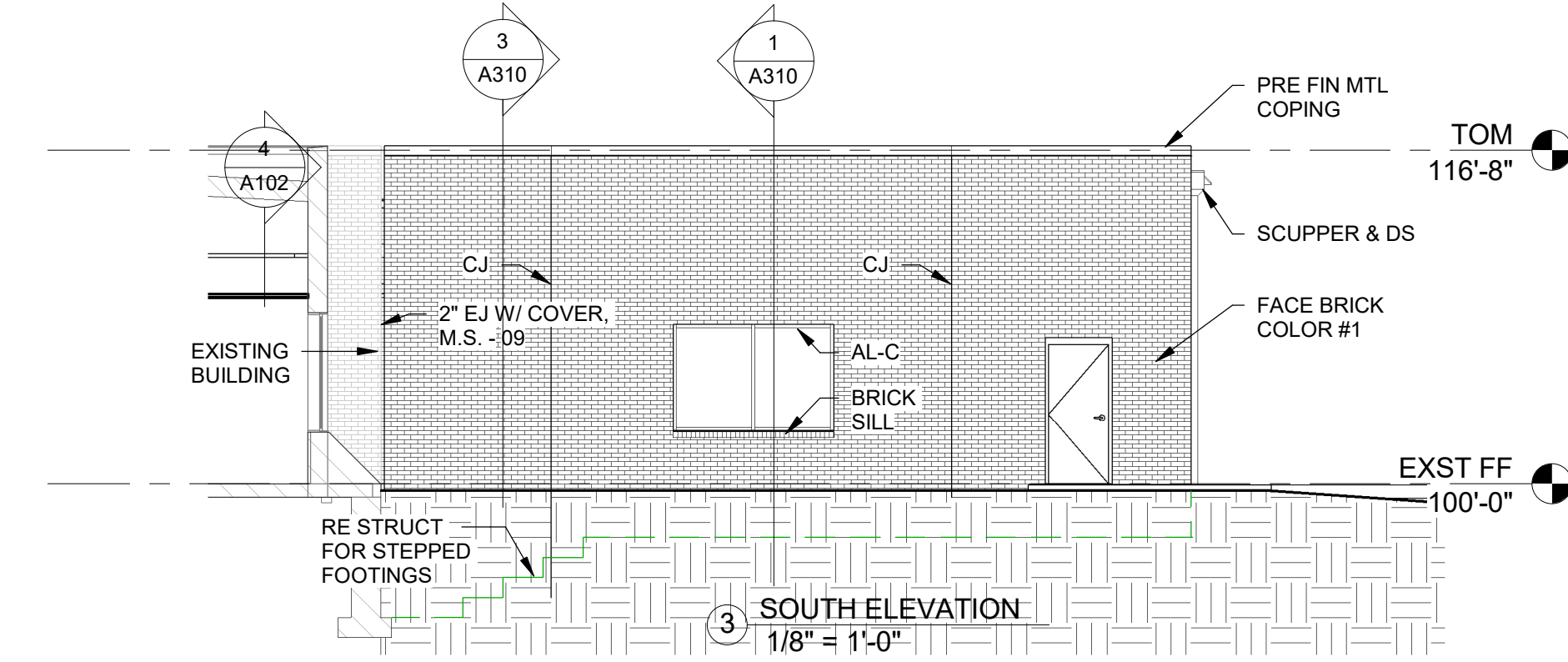
4/17/2018 8:45:28 AM



2 NORTH ELEVATION
1/8" = 1'-0"



1 EAST ELEVATION
1/8" = 1'-0"

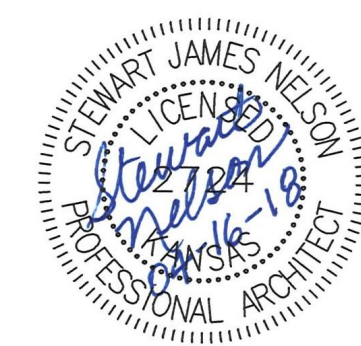
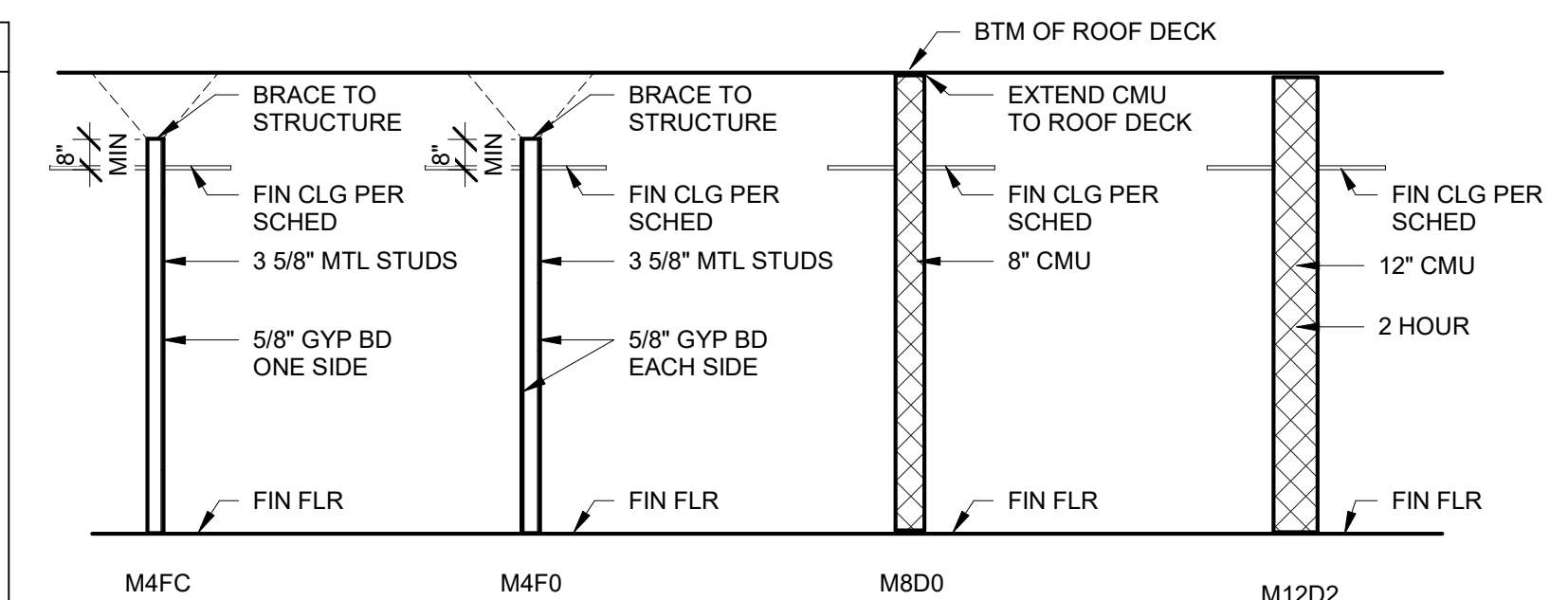


3 SOUTH ELEVATION
1/8" = 1'-0"

PARTITION ABBREVIATIONS

- M8D0
- FIRE RATING
- HEIGHT
- NOMINAL THICKNESS
- WALL MATERIAL
- M - MASONRY
- F - METAL STUD
- W - WOOD STUD
- SW - STACKED WALL-COMBINATION
- D - EXTEND TO DECK (OR STRUCT.)
- F - EXTEND 8" MIN ABOVE CEILING
- A - EXTEND ABOVE DECK
- V - VARIABLE HEIGHT
- N - NOT APPLICABLE
- C - CAVITY
- S - SOUND PARTITION
- G - GLASS
- 0 - NON RATED
- 1 - ONE HOUR RATED
- 2 - TWO HOUR RATED

WALL TYPES
1/4" = 1'-0"



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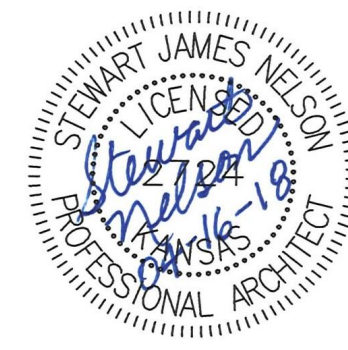
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ELEVATIONS

DATE:
4-16-2018

A201

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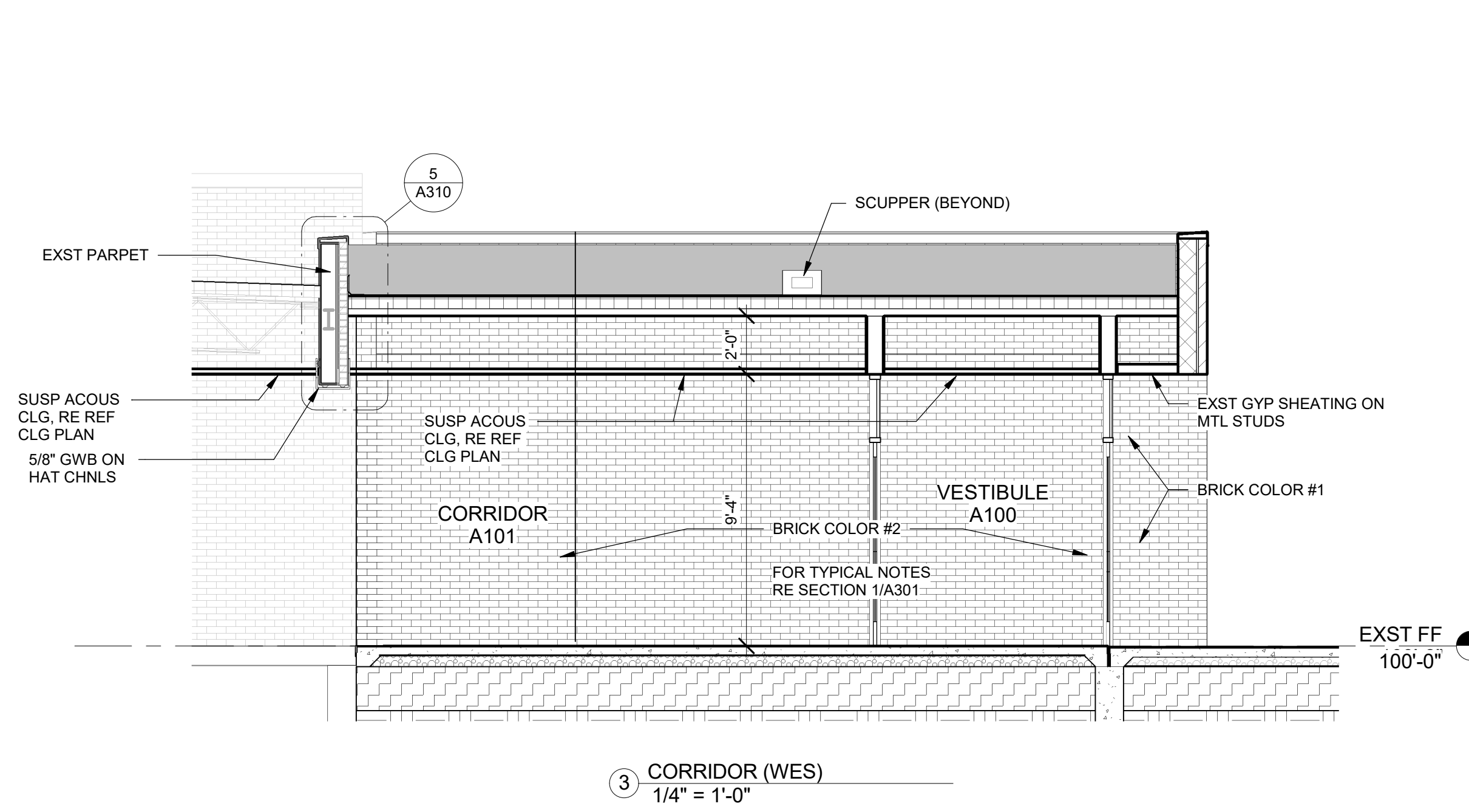
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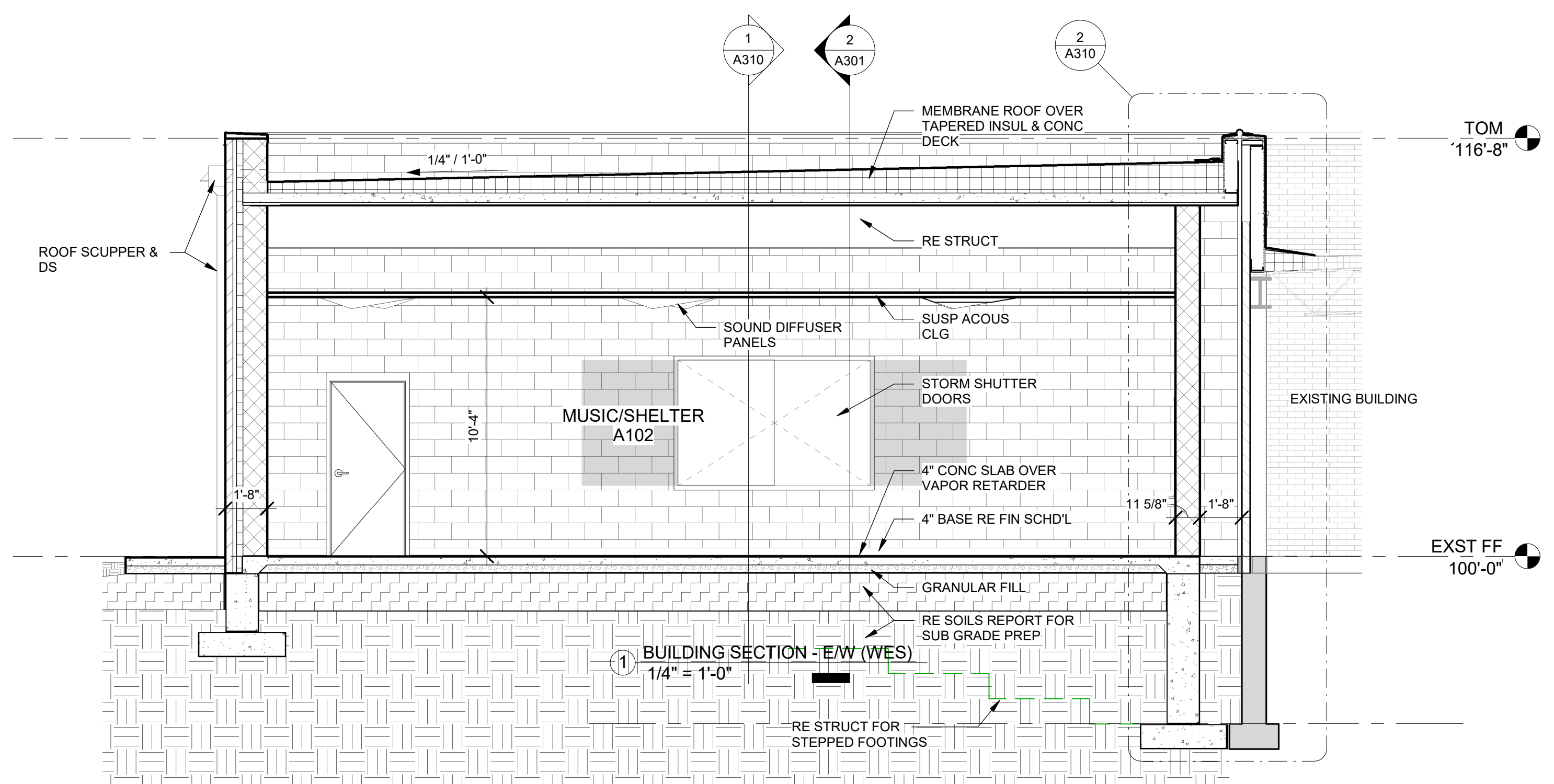
SHEET TITLE:
SECTIONS

DATE:
4-16-2018

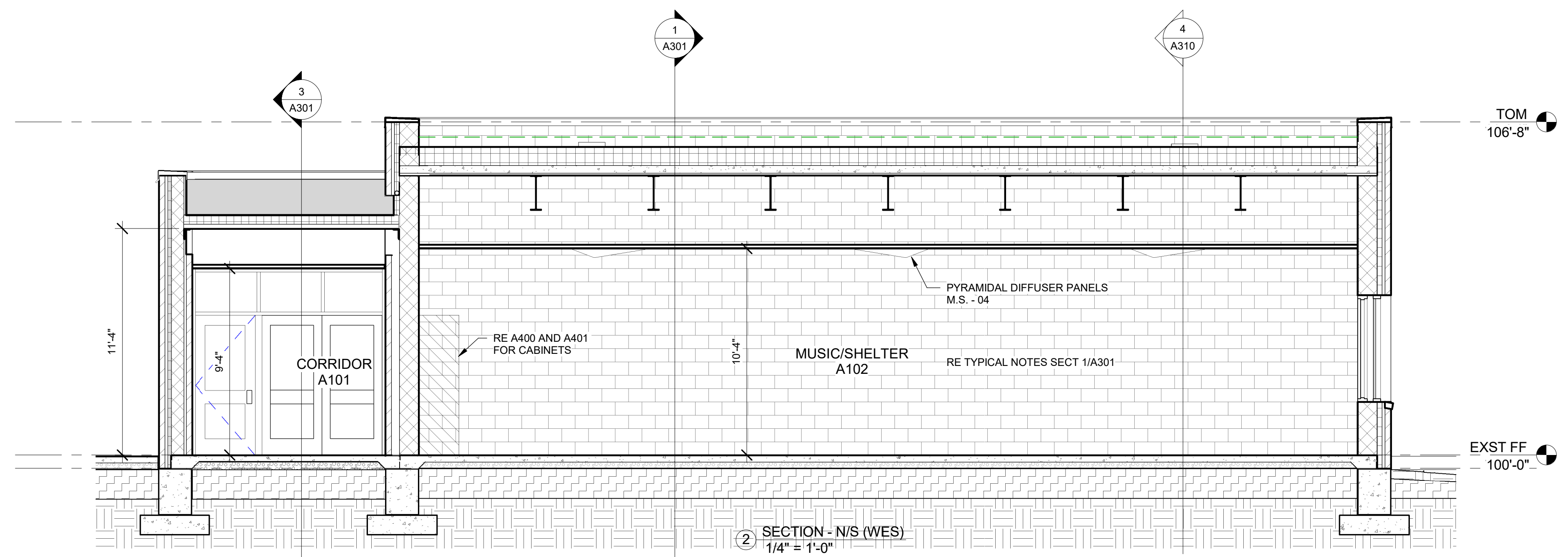
A301



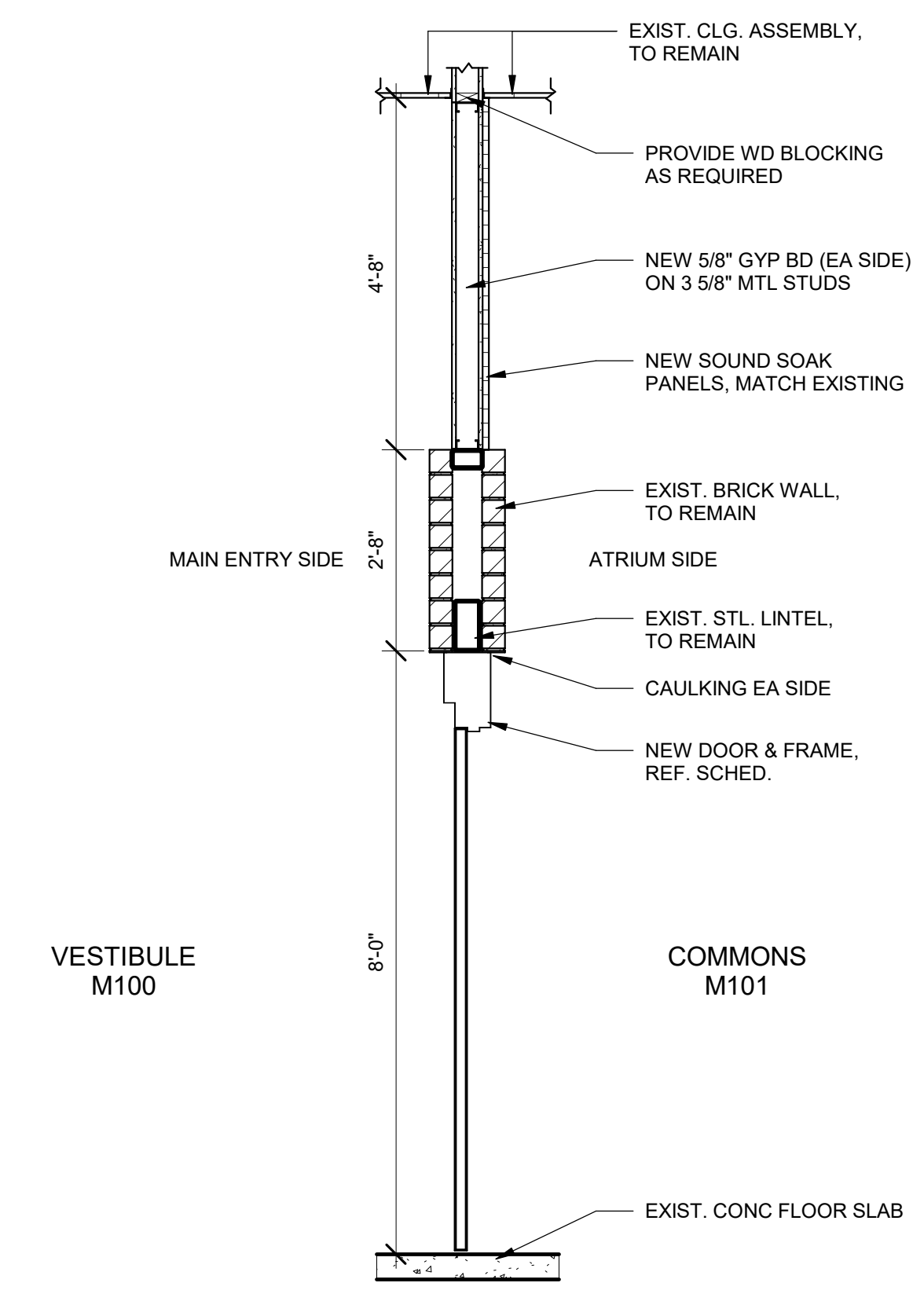
3 CORRIDOR (WES)
1/4" = 1'-0"



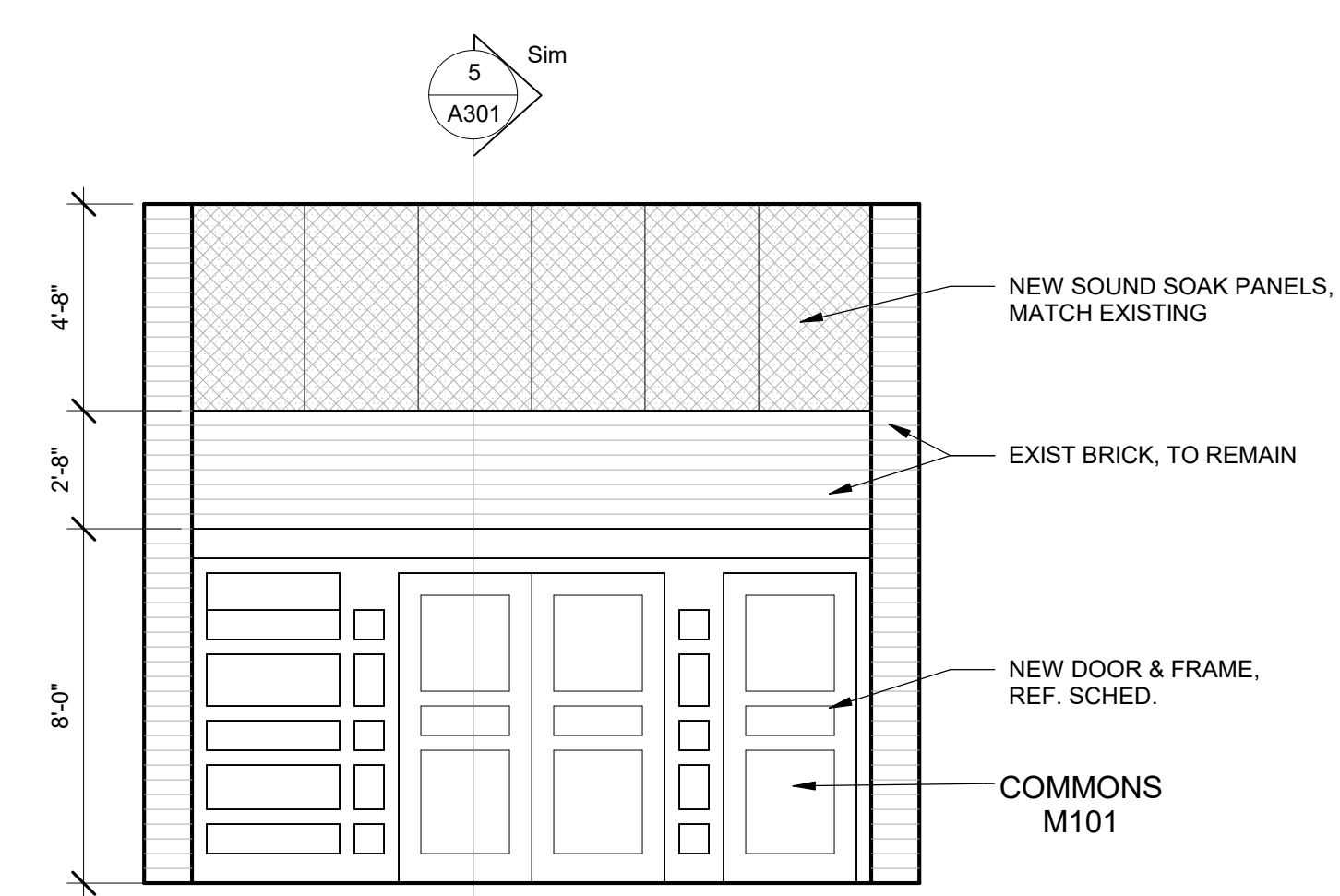
1 BUILDING SECTION - E/W (WES)
1/4" = 1'-0"



2 SECTION - N/S (WES)
1/4" = 1'-0"



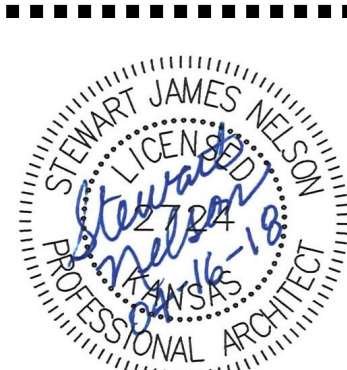
5 MAIN ENTRY WALL SECTION (HMS)
1/2" = 1'-0"



4 MAIN ENTRY ELEVATION (HMS)
1/4" = 1'-0"

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4/17/2018 8:56:41 AM



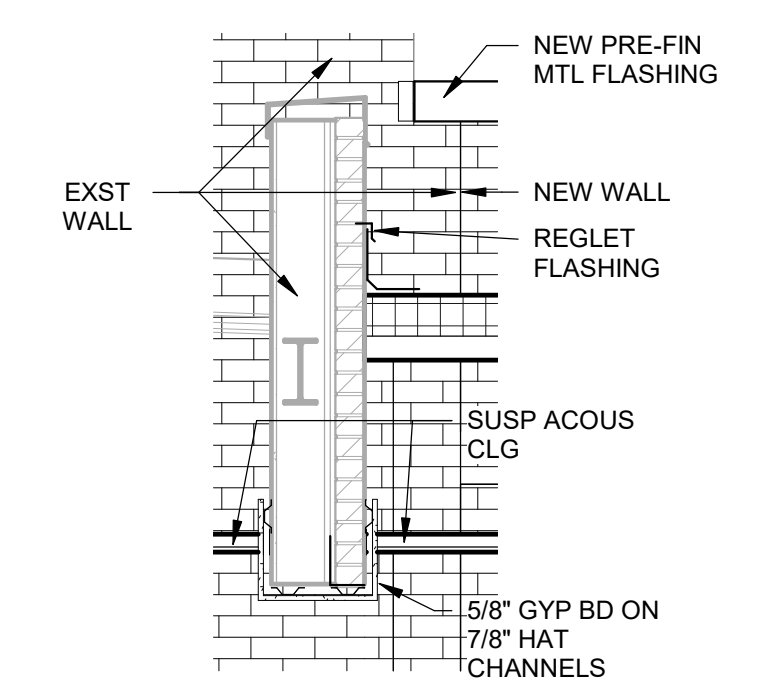
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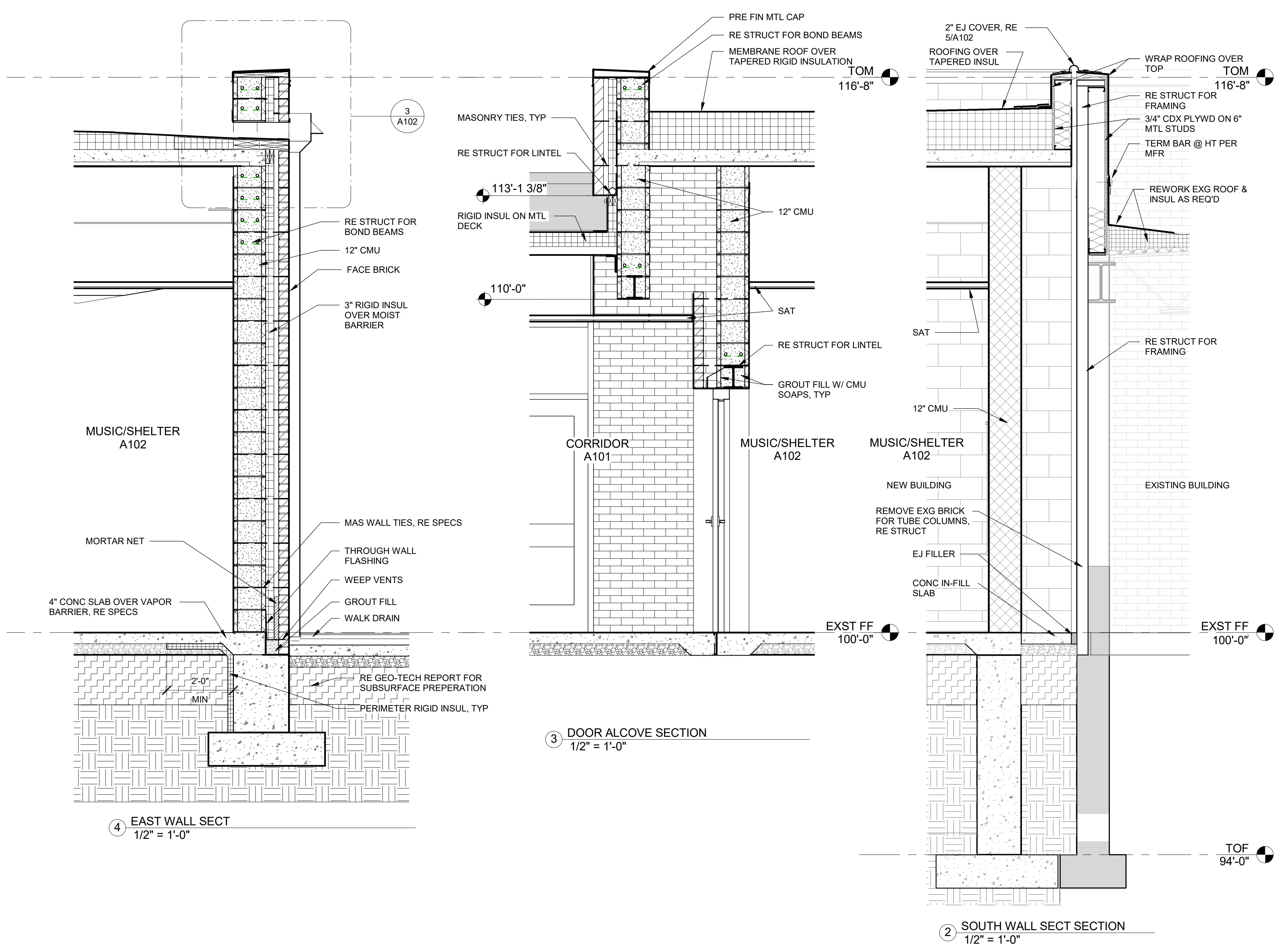
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HOLCOMB, KANSAS

SHEET TITLE:
WALL SECTIONS
DATE:
4-16-2018

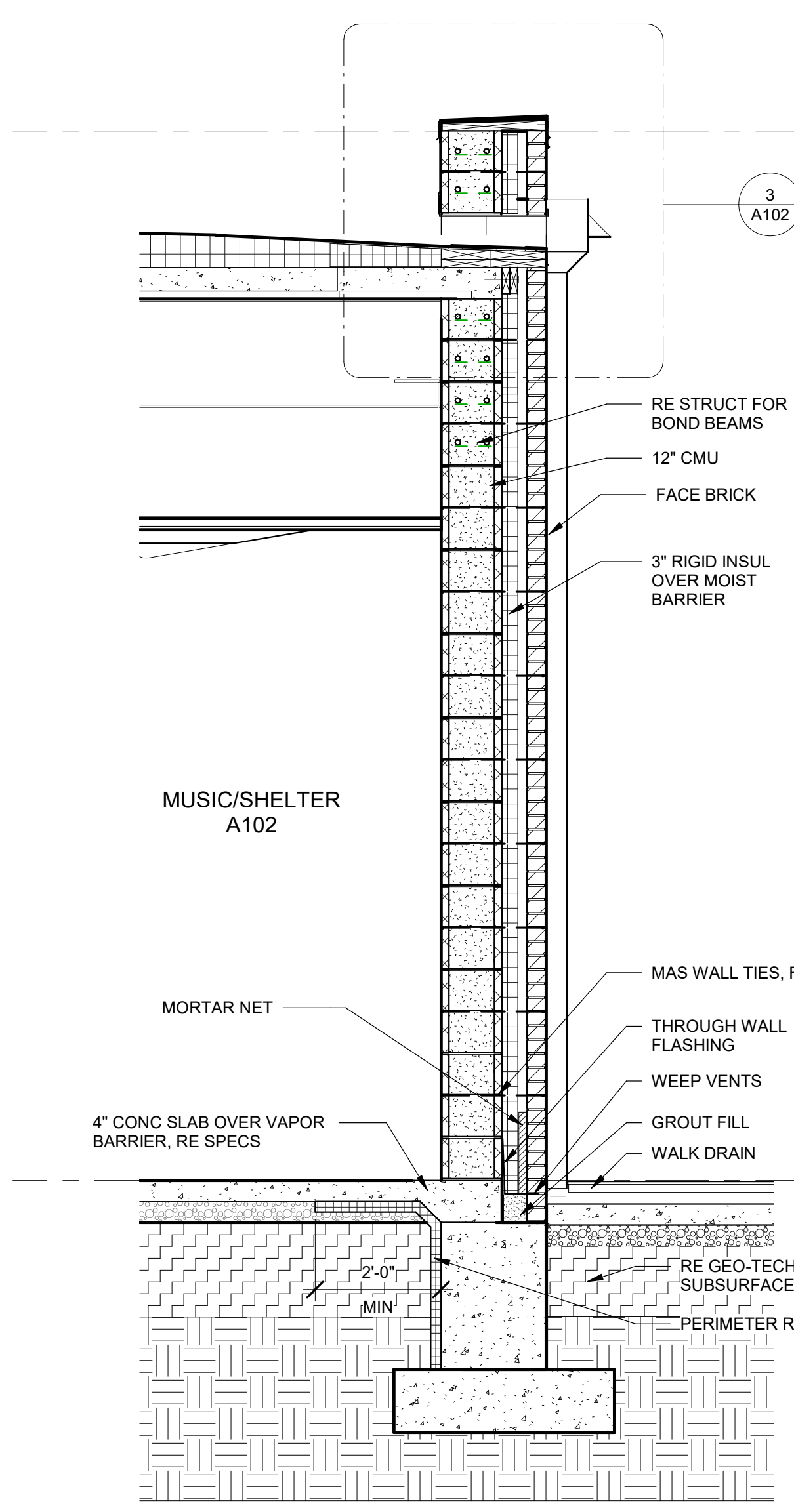
A310



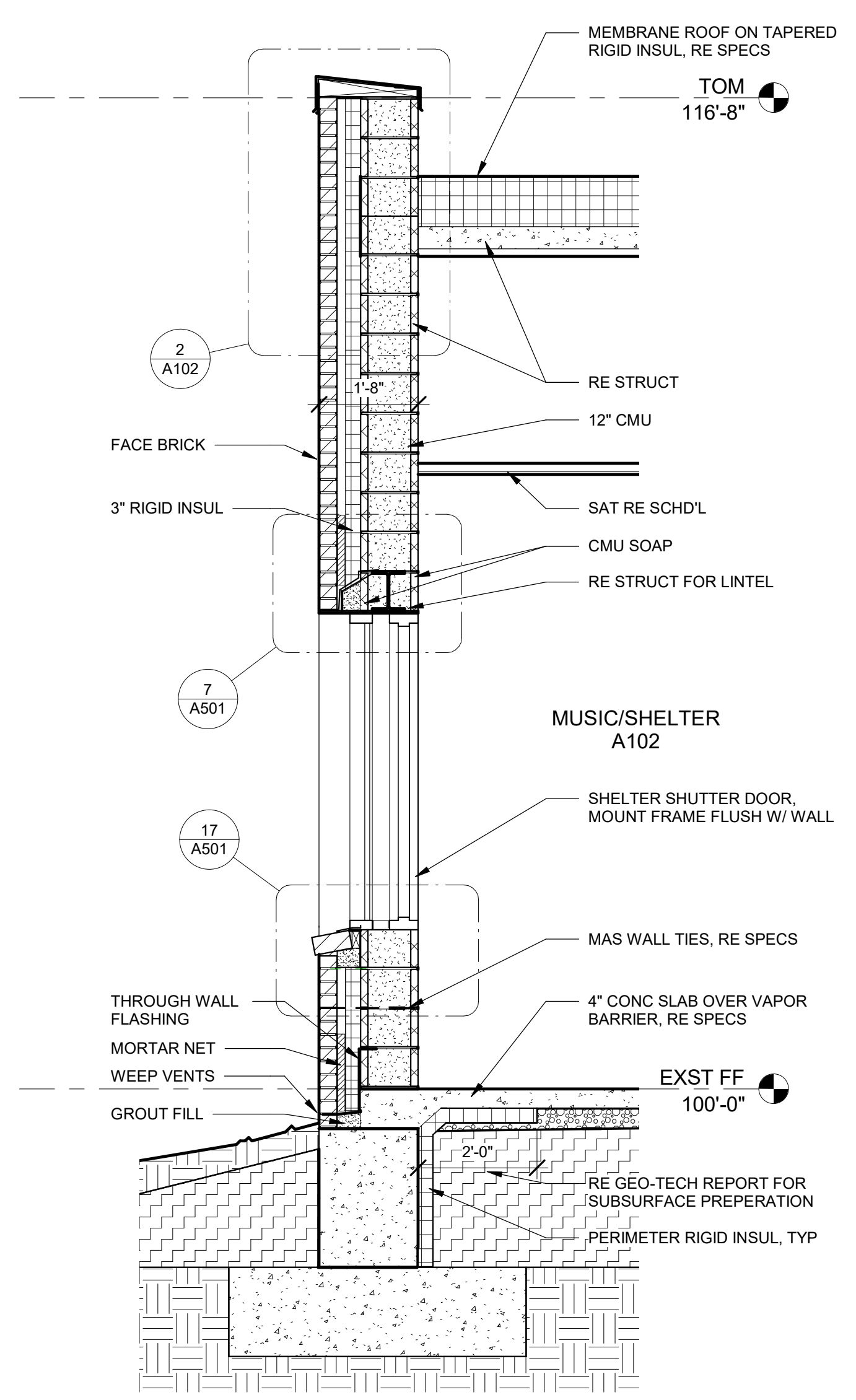
5 EXST BULKHEAD WALL
1/2" = 1'-0"



3 DOOR ALCOVE SECTION
1/2" = 1'-0"

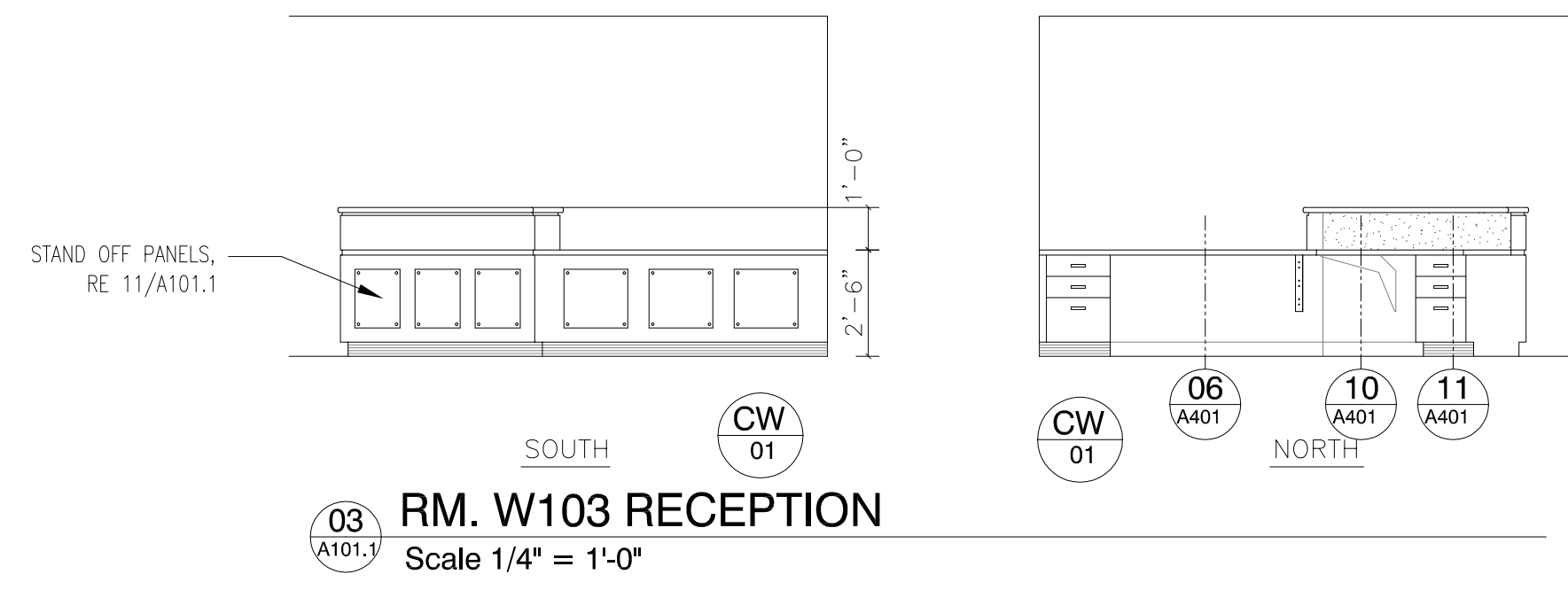


4 EAST WALL SECT
1/2" = 1'-0"

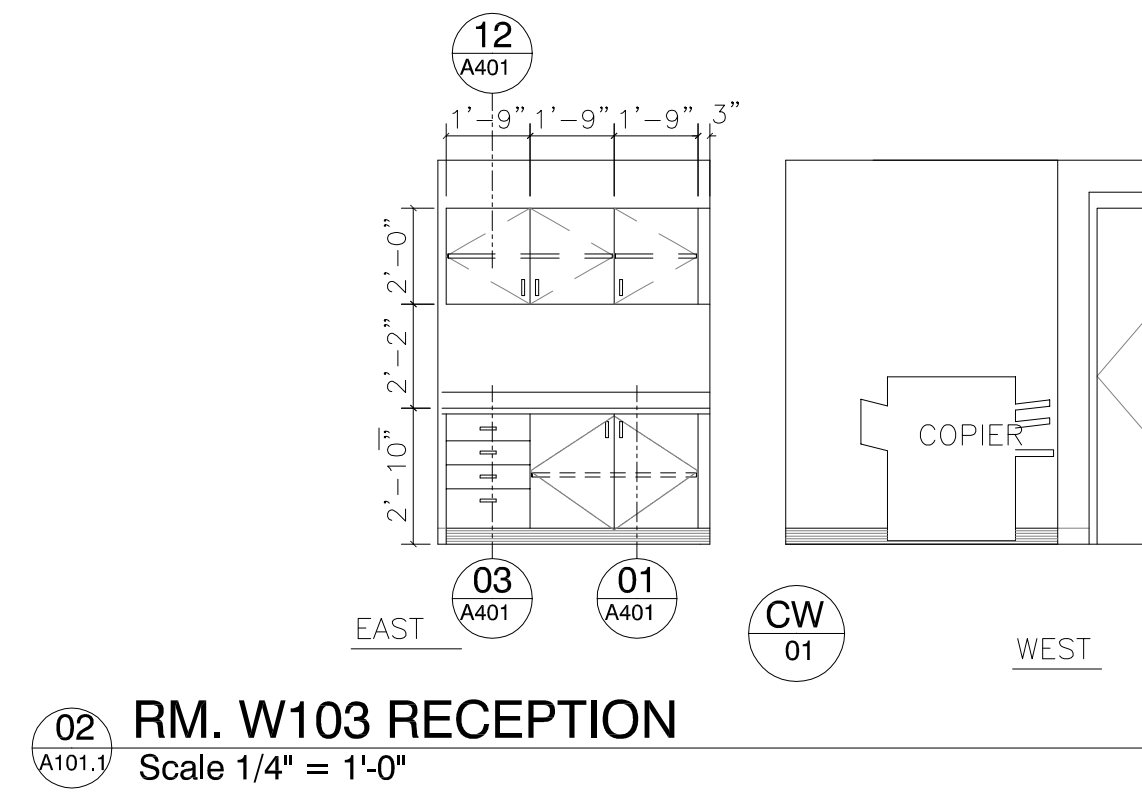


1 WALL SECT @ SHUTTER
1/2" = 1'-0"

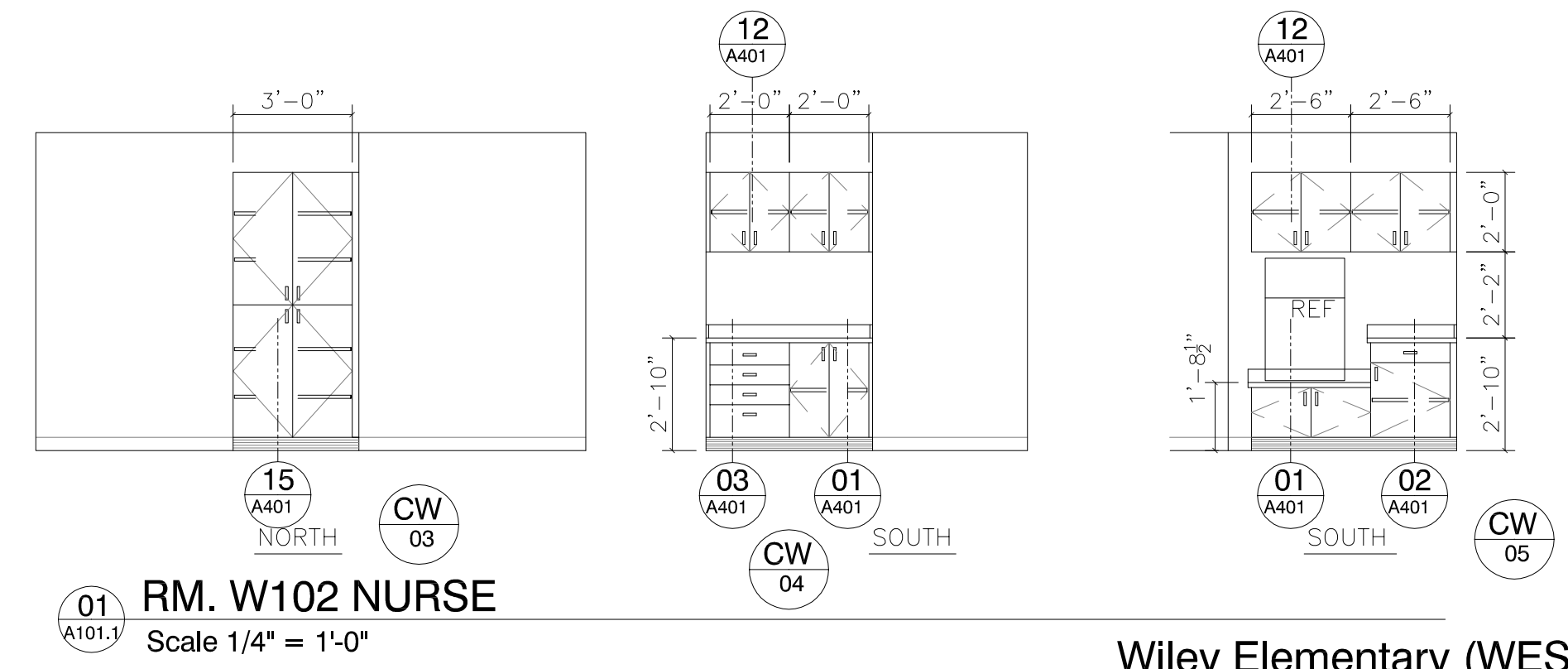
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03 RM. W103 RECEPTION
Scale 1/4" = 1'-0"

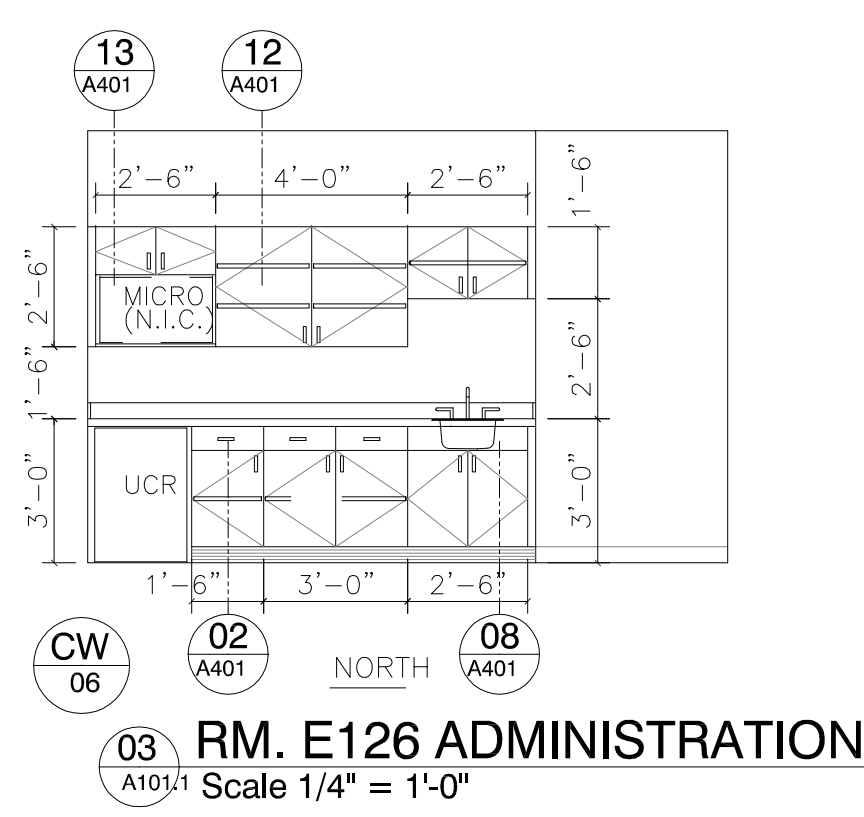


02 RM. W103 RECEPTION
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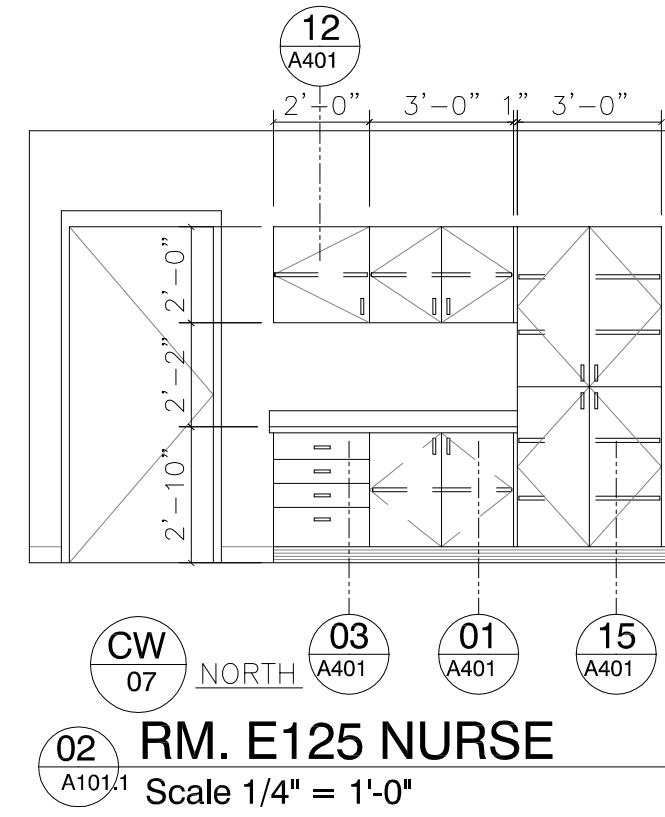


01 RM. W102 NURSE
Scale 1/4" = 1'-0"

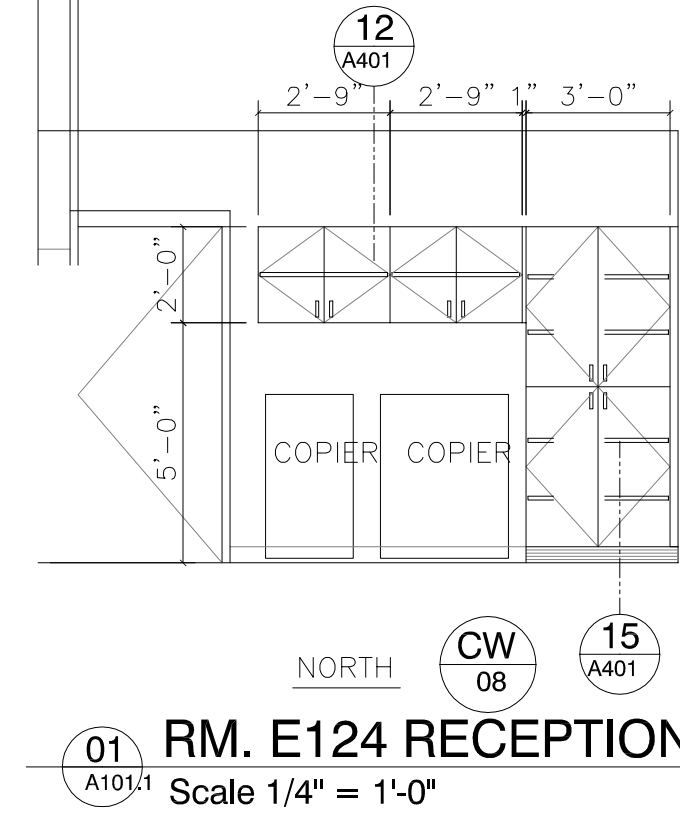
Wiley Elementary (WES)



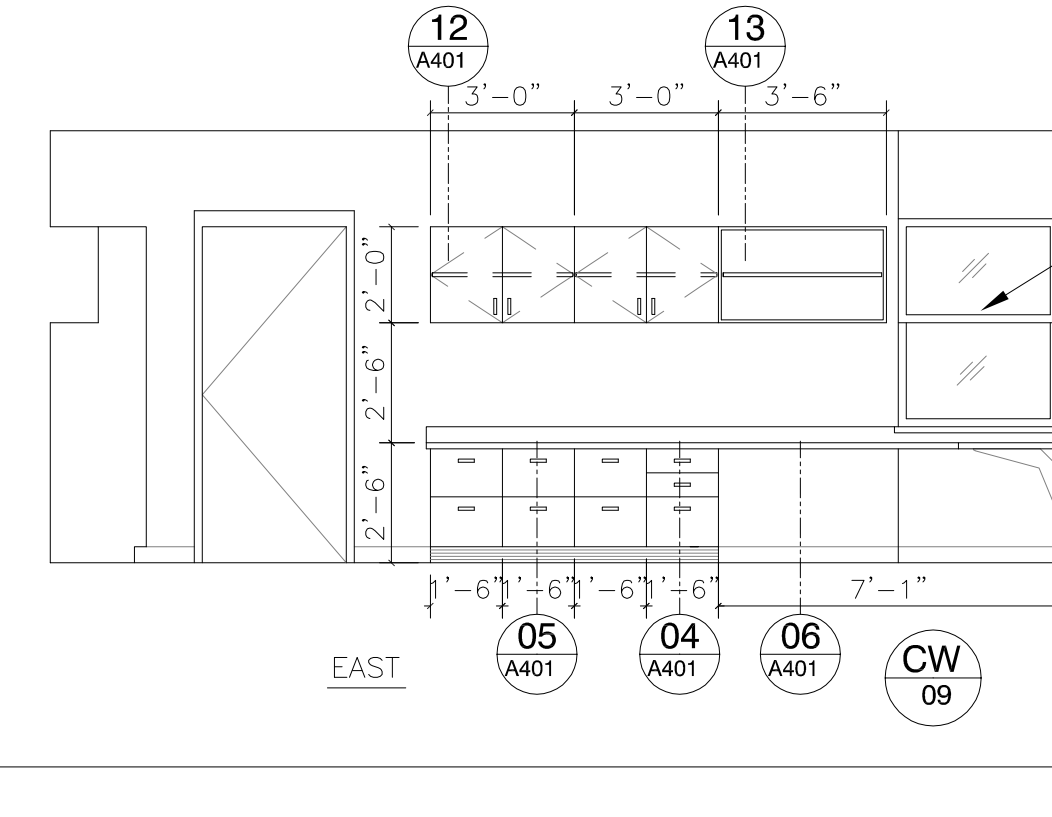
03 RM. E126 ADMINISTRATION
Scale 1/4" = 1'-0"



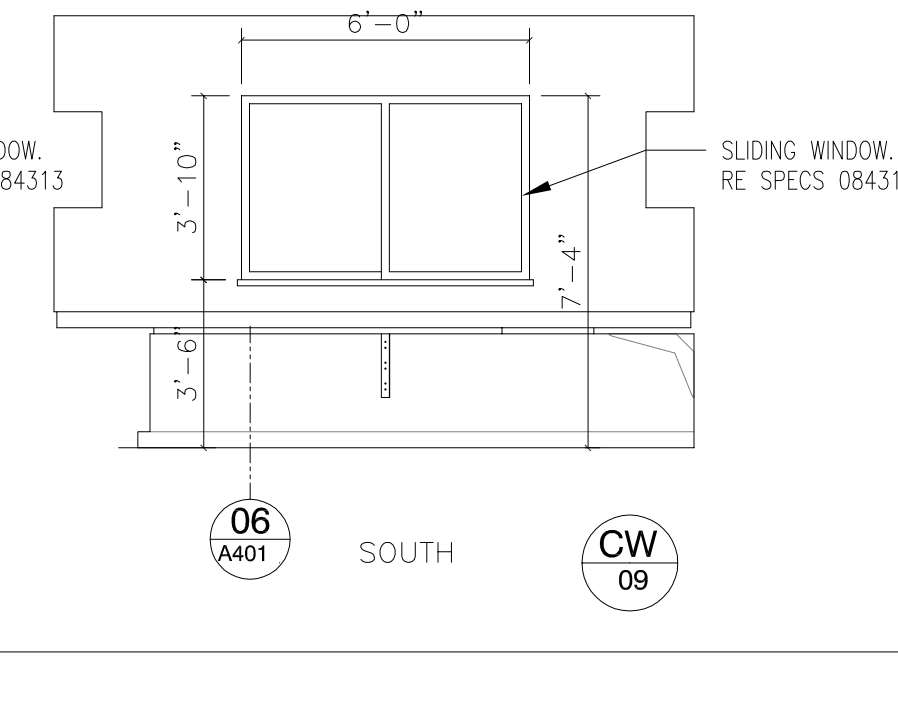
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Scale 1/4" = 1'-0"



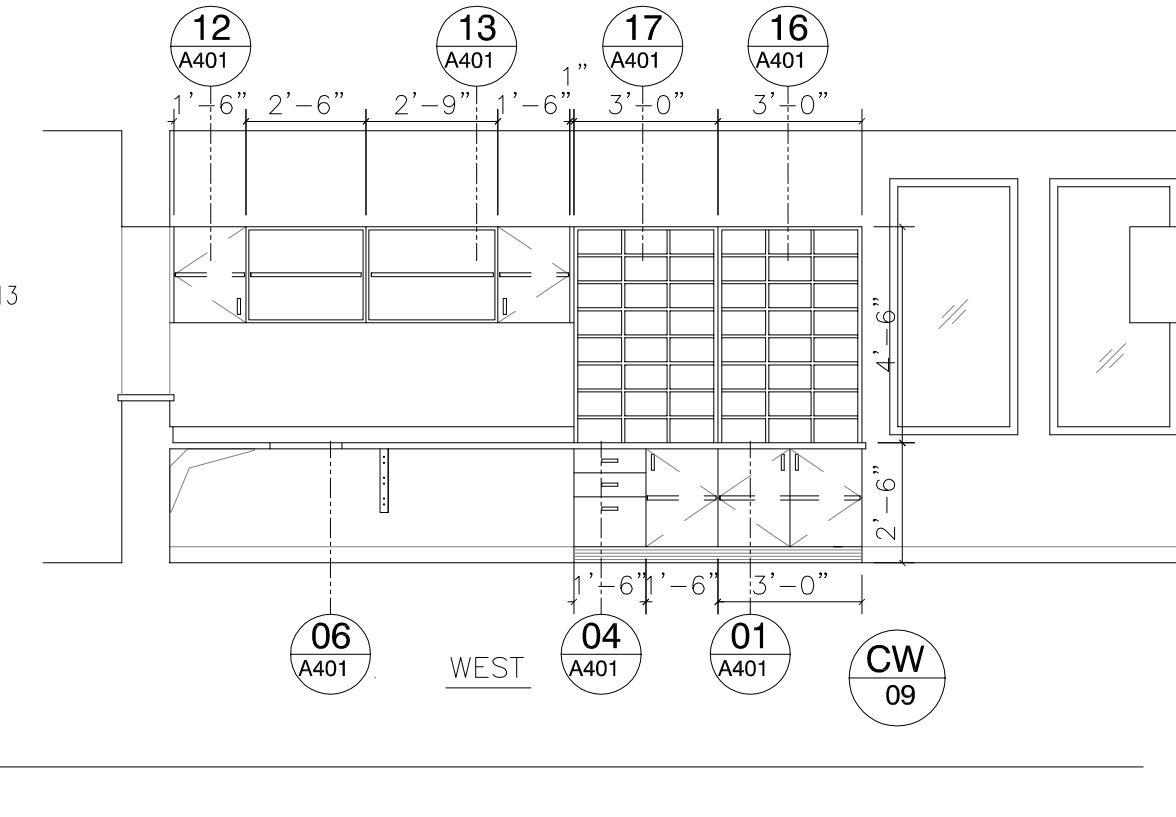
01 RM. E124 RECEPTION
Scale 1/4" = 1'-0"



05 EAST
04
06
09

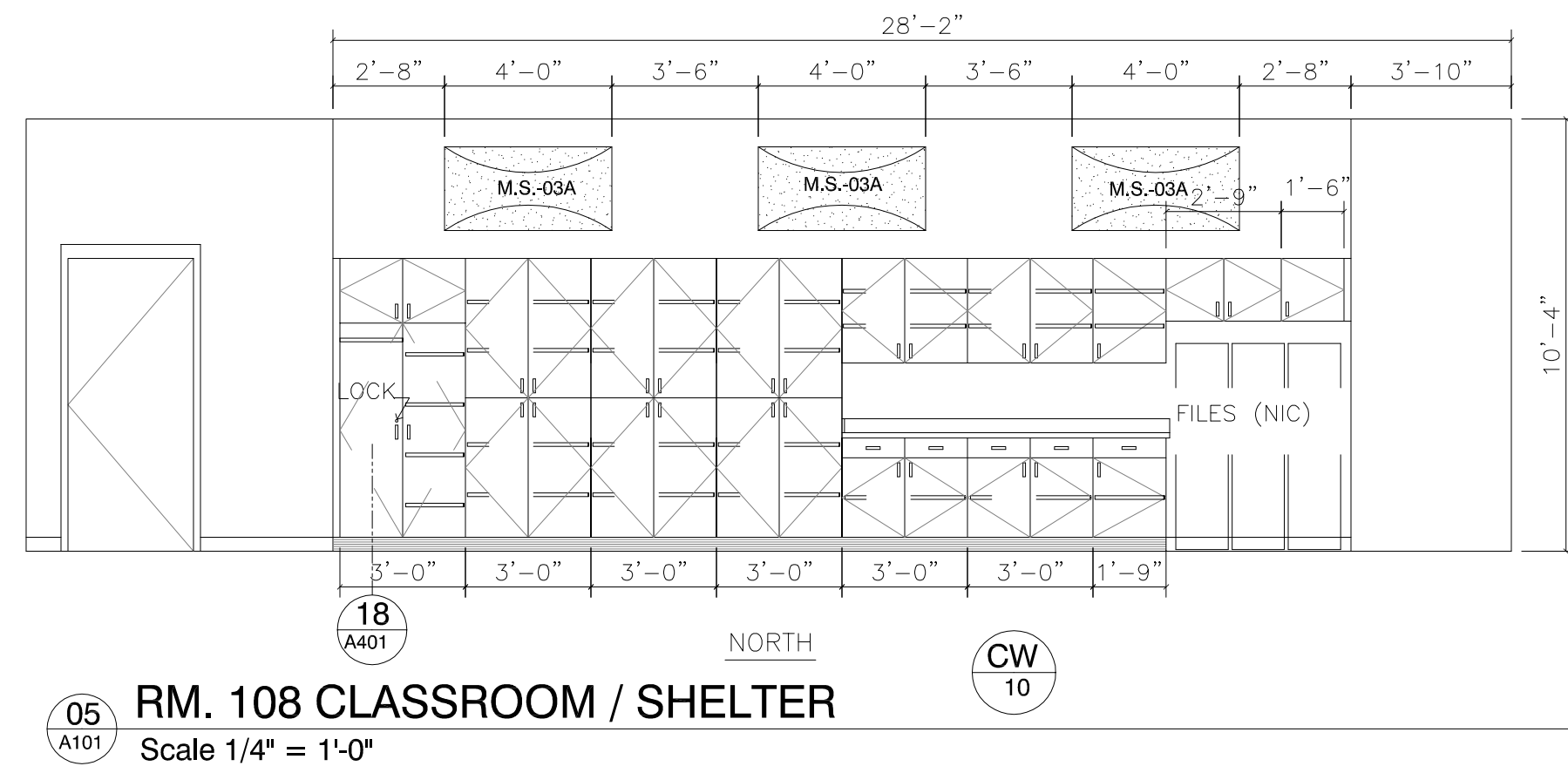


06 SOUTH
09

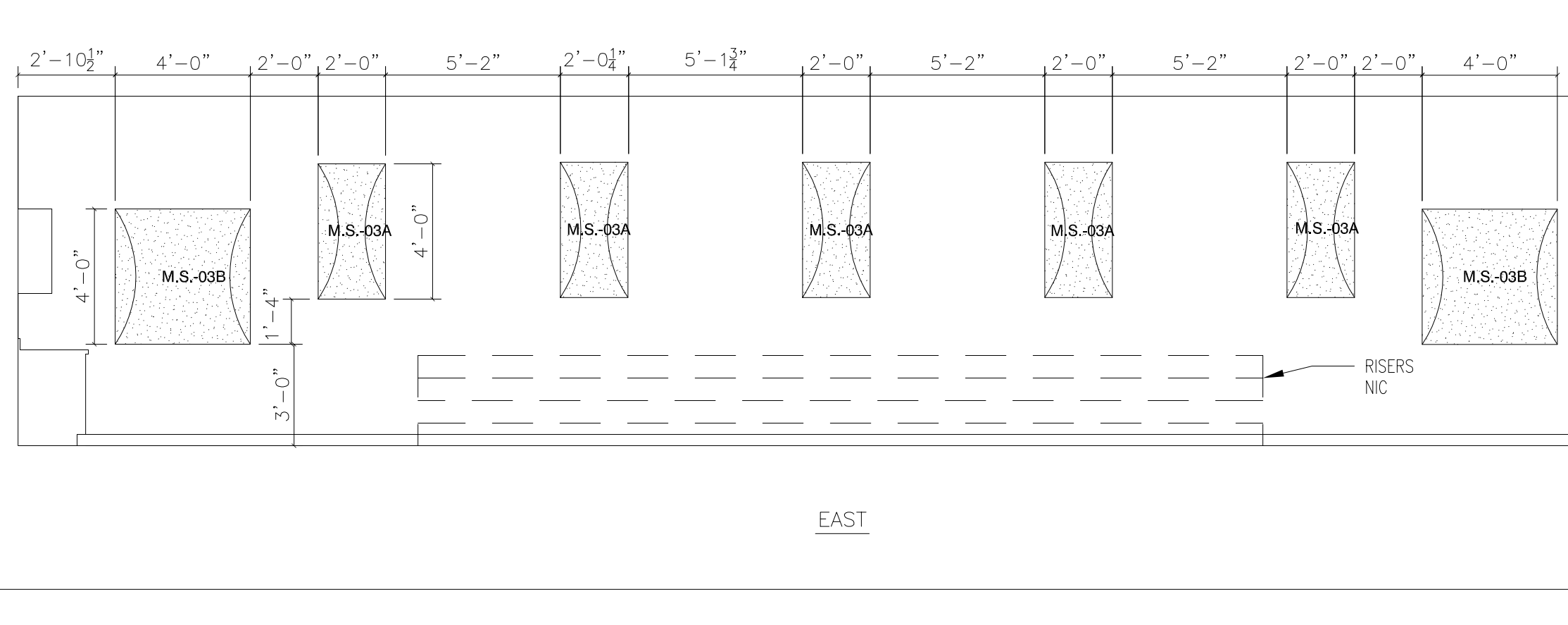


06 WEST
04
01
09

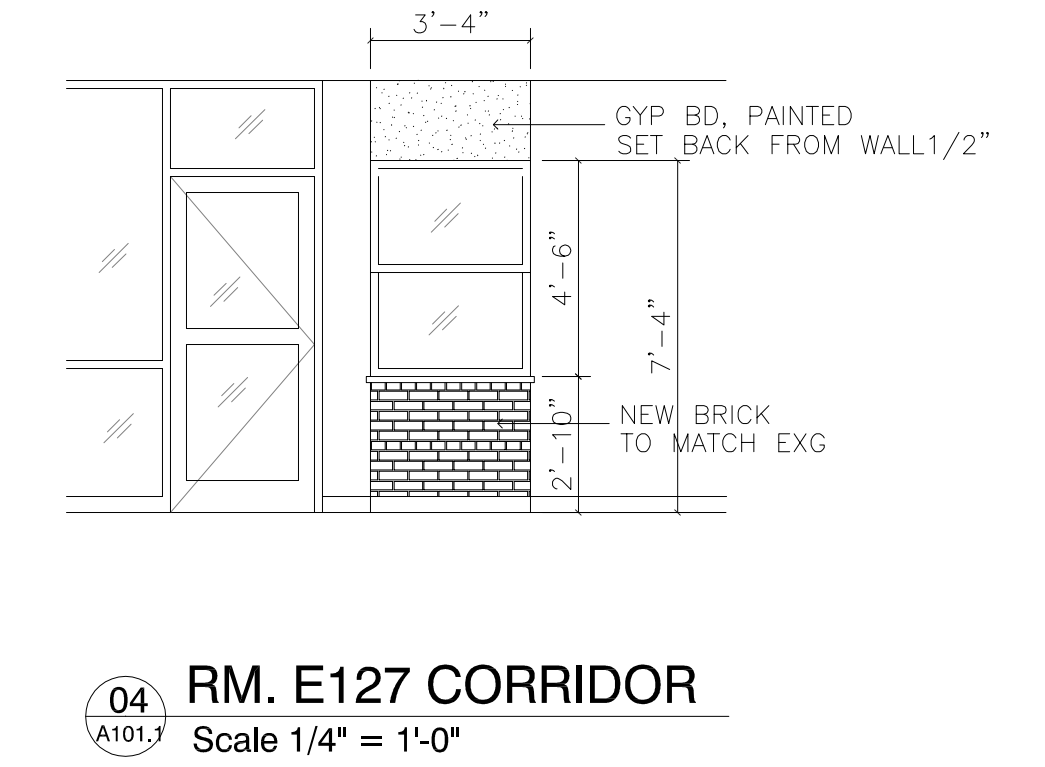
Holcomb Elementary (HES)



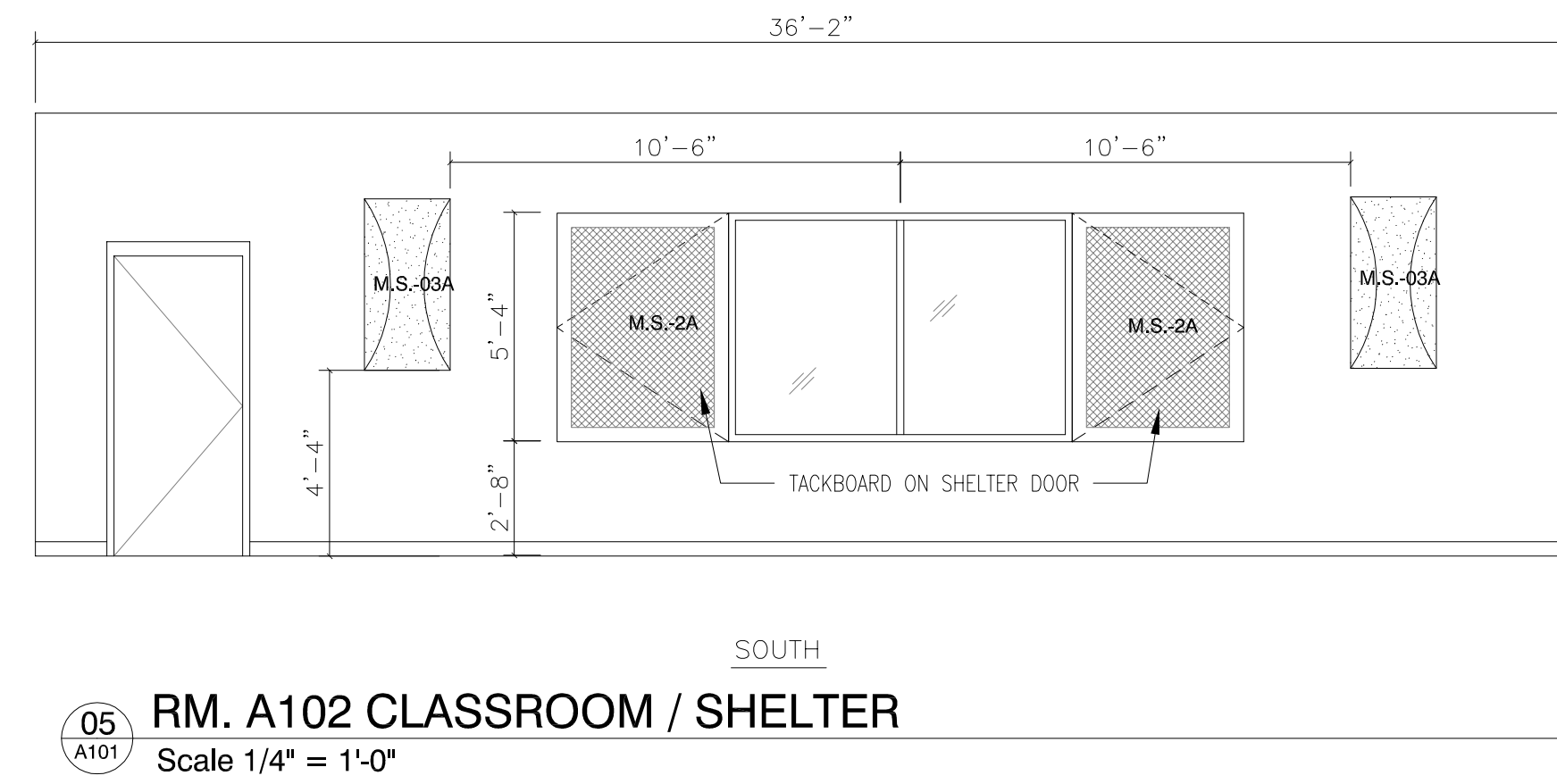
05 RM. 108 CLASSROOM / SHELTER
Scale 1/4" = 1'-0"



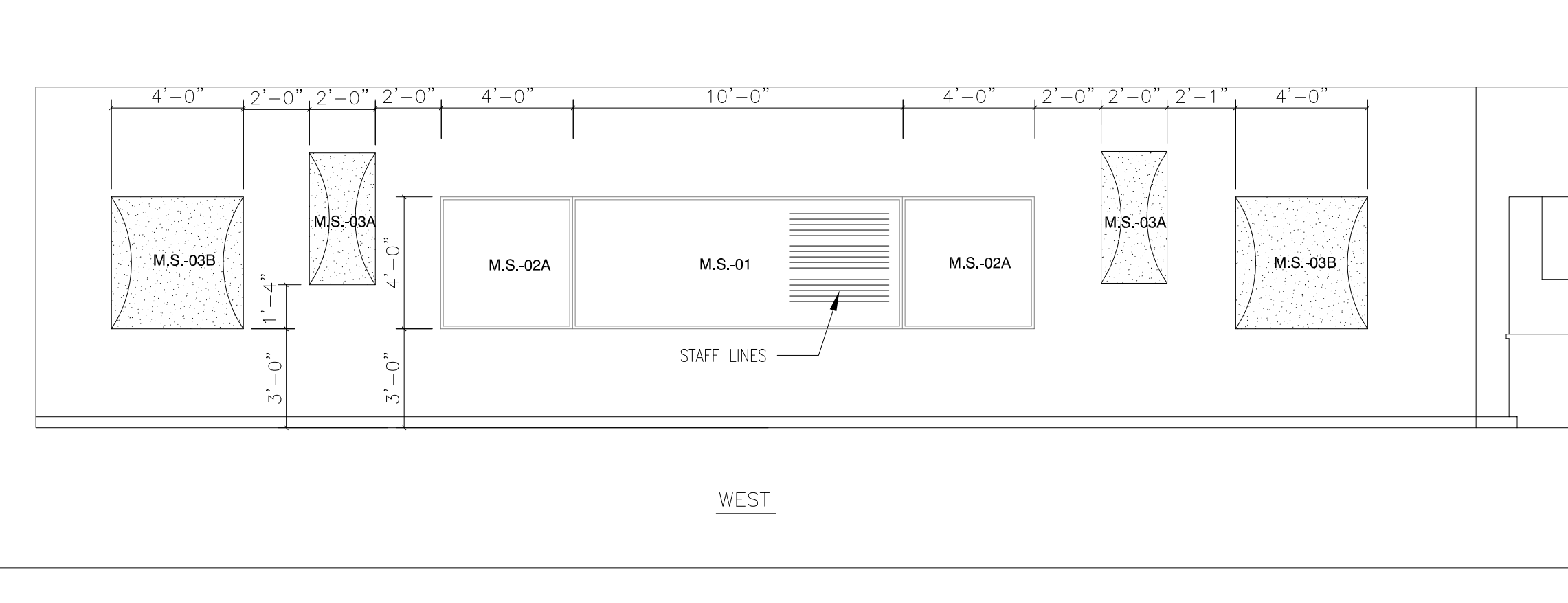
18 NORTH
10 EAST
CW



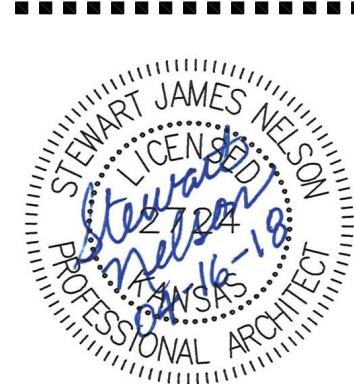
04 RM. E127 CORRIDOR
Scale 1/4" = 1'-0"



05 RM. A102 CLASSROOM / SHELTER
Scale 1/4" = 1'-0"



05 WEST
10



2017-21



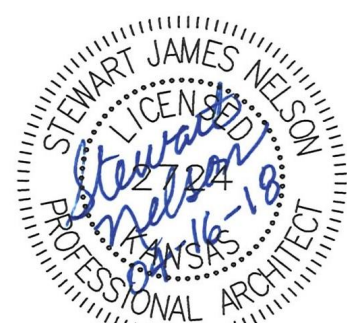
WILEY ELEMENTARY, HOLCOMB ELEMENTARY & HOLCOMB MIDDLE SCHOOL
HOLCOMB, KANSAS

SHEET TITLE:
HES & HMS PLANS
DATE:
4-16-2018

A400

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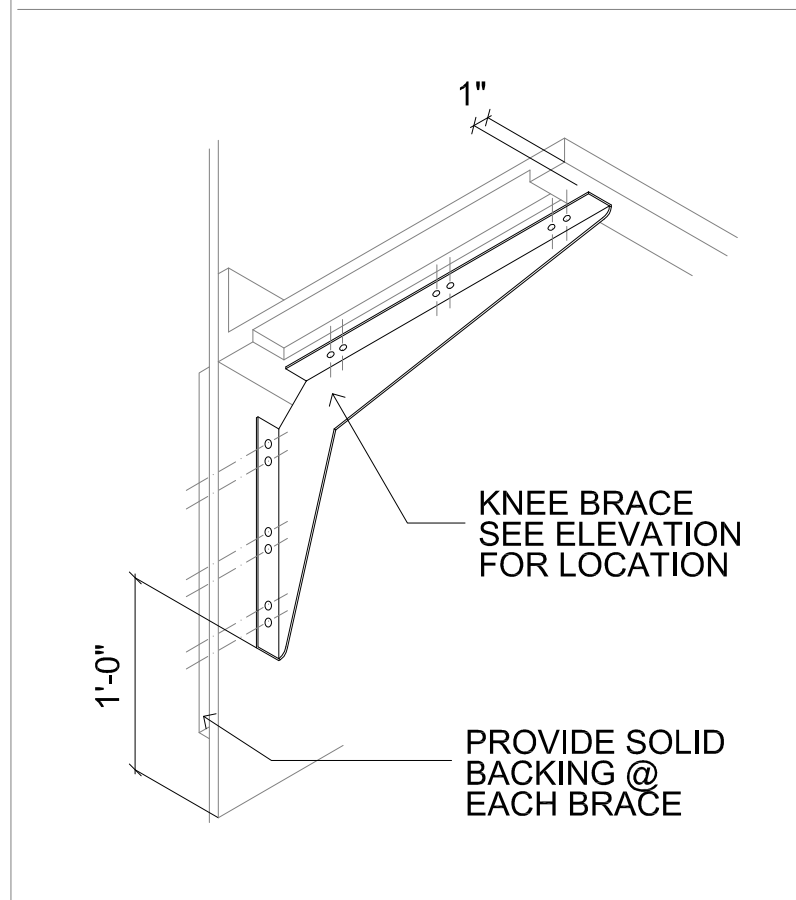
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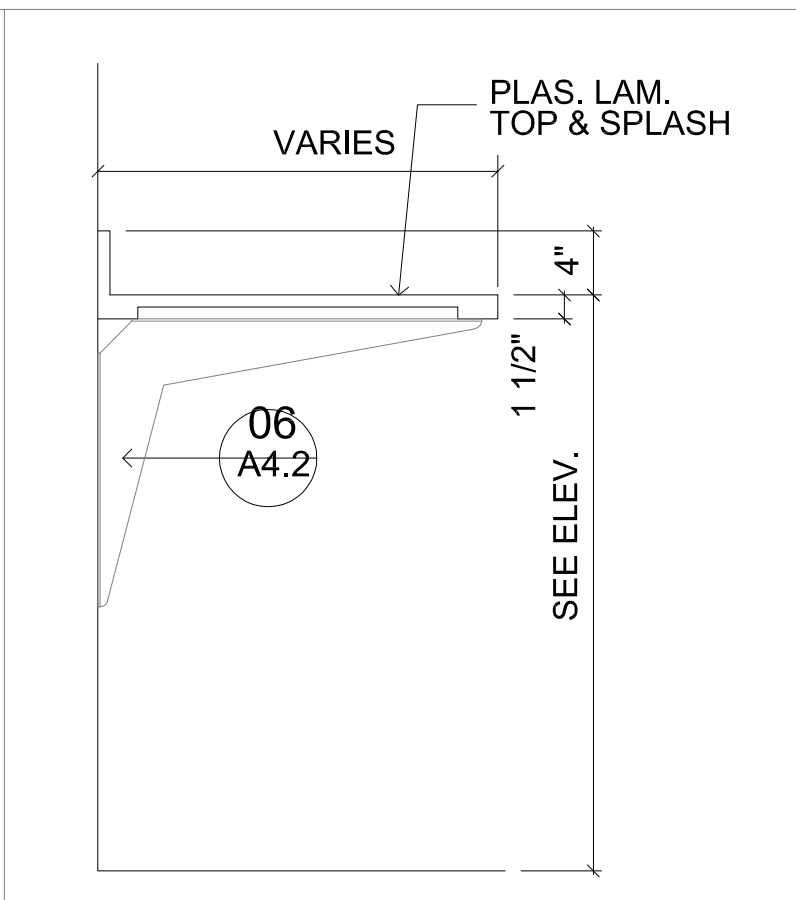
SHEET TITLE:
HES & HMS PLANS

DATE:
4-16-2018

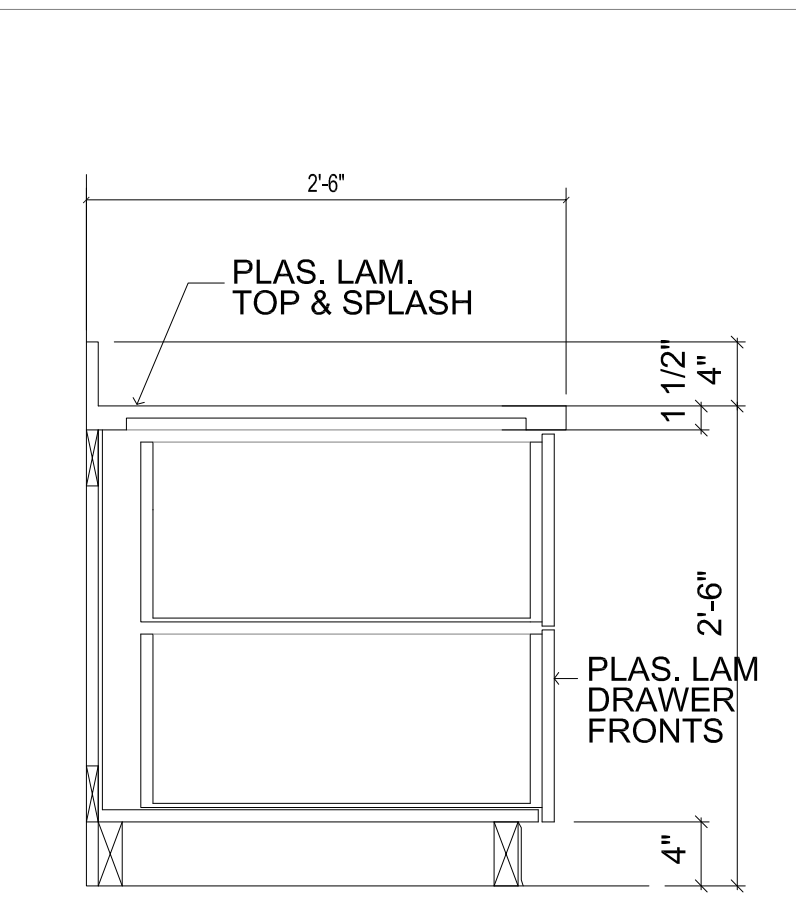
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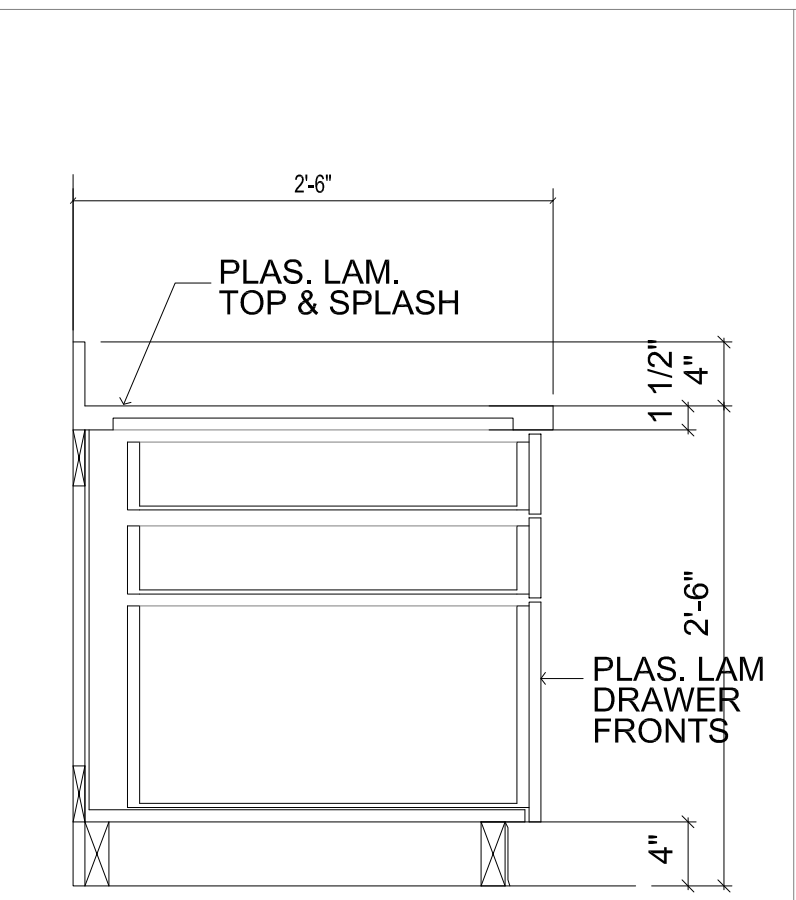
07 KNEE SPACE BRACE
1" = 1'-0"



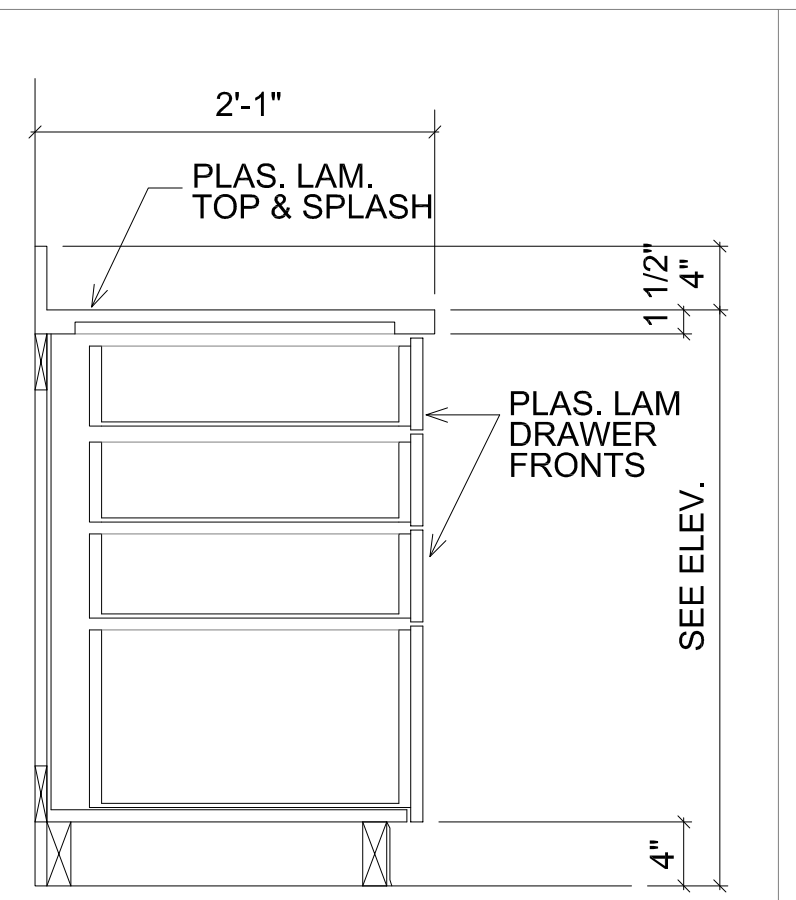
06 KNEE SPACE BRACE
1" = 1'-0"



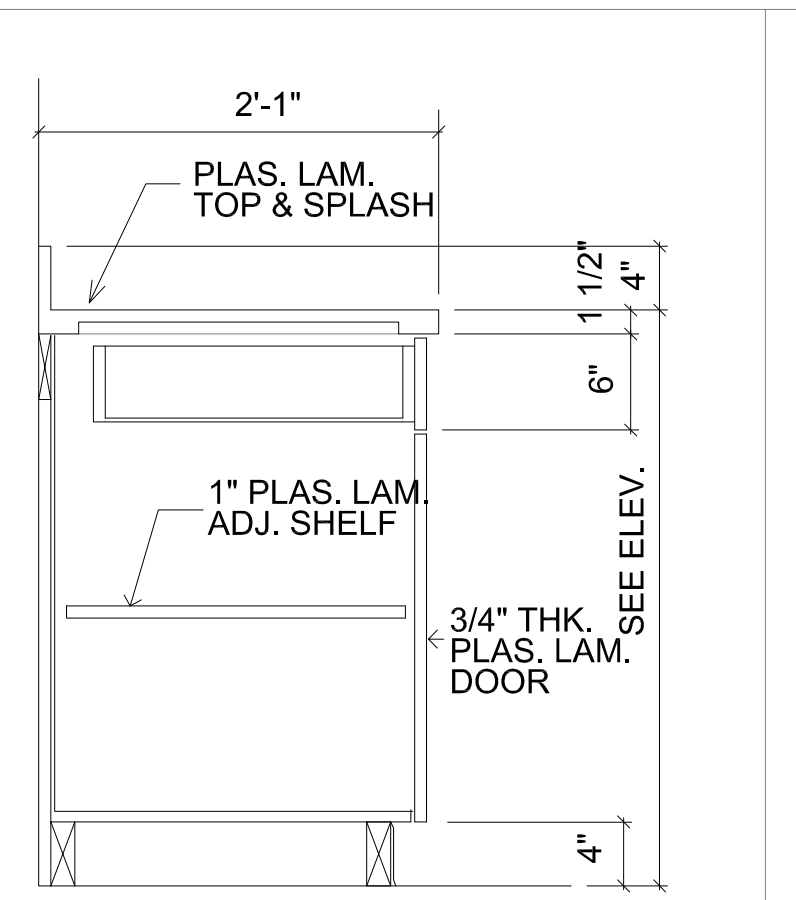
05 DRAWER BASE DETAIL
1" = 1'-0"



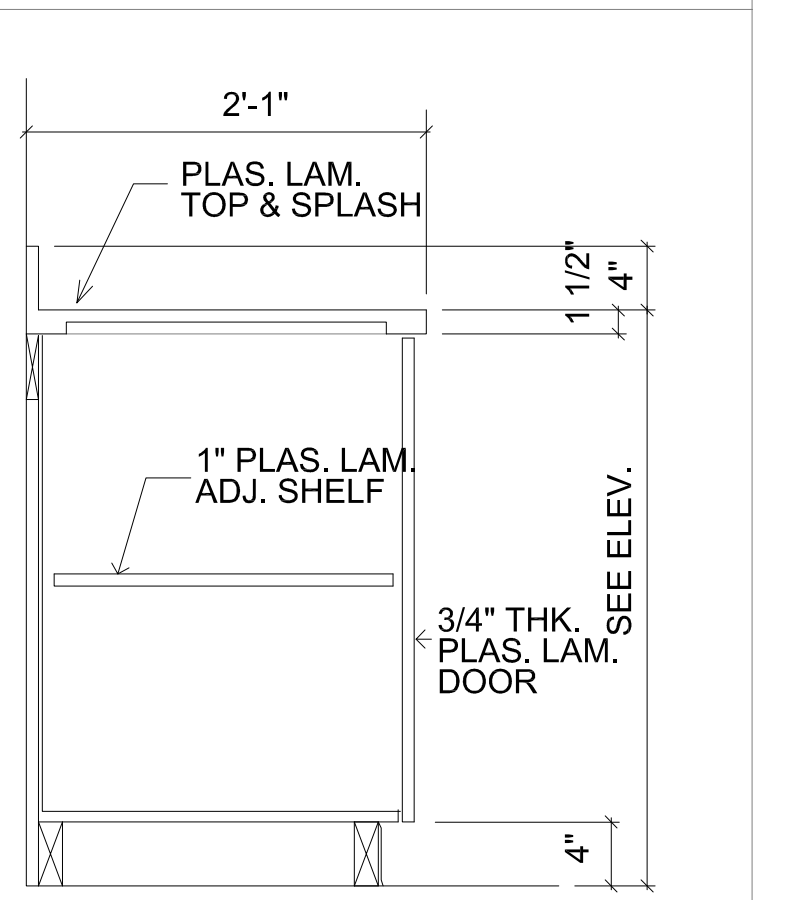
04 DRAWER BASE DETAIL
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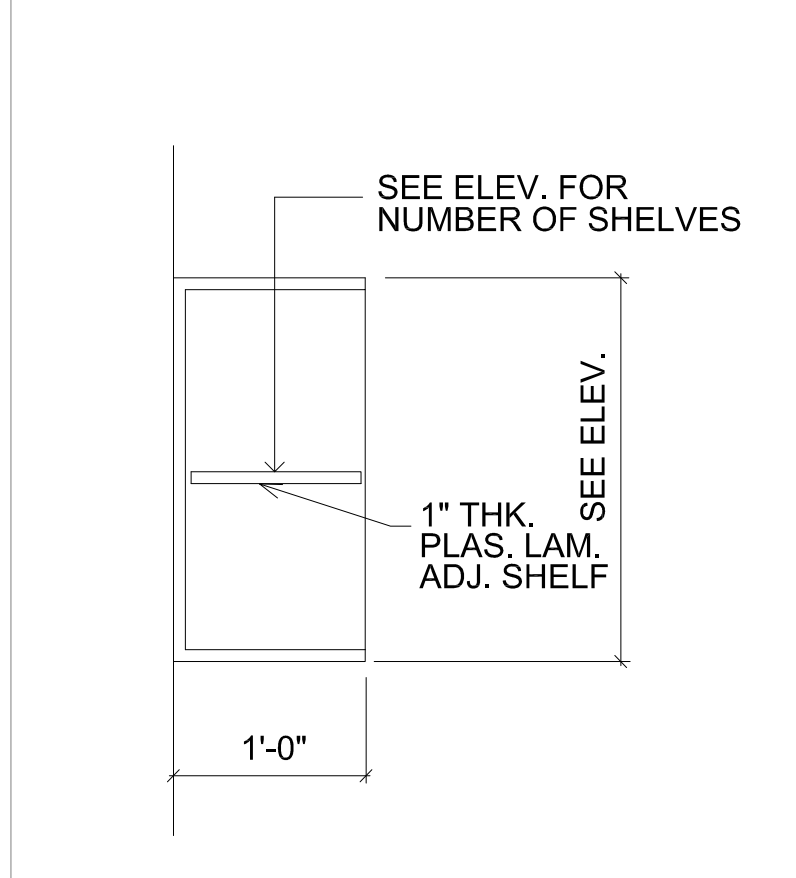
03 DRAWER BASE DETAIL
1" = 1'-0"



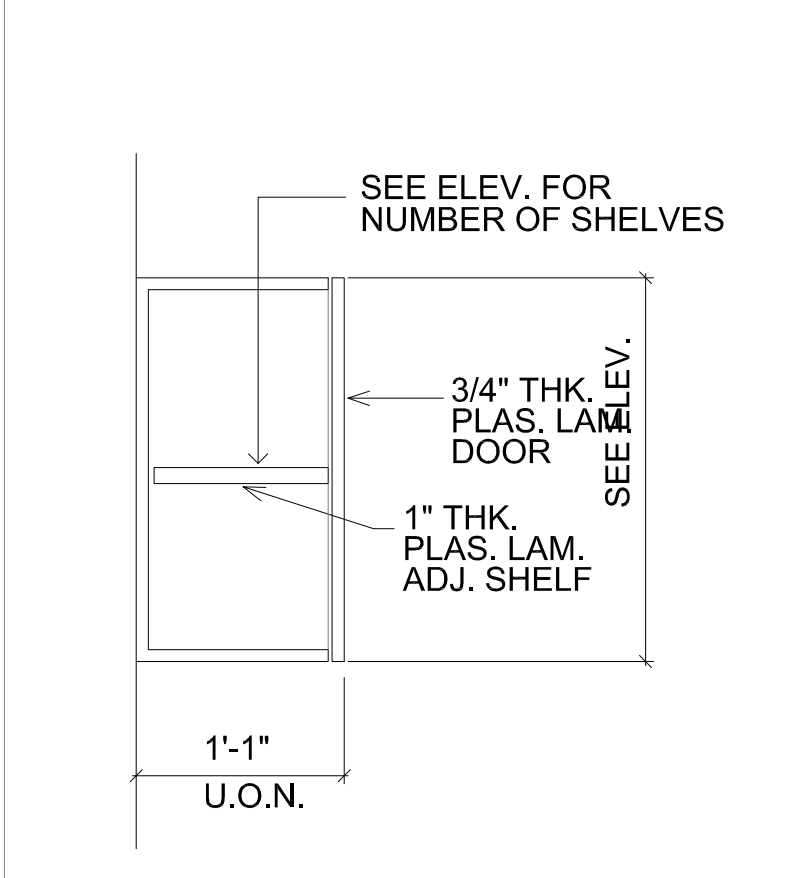
02 BASE CABINET DETAIL
1" = 1'-0"



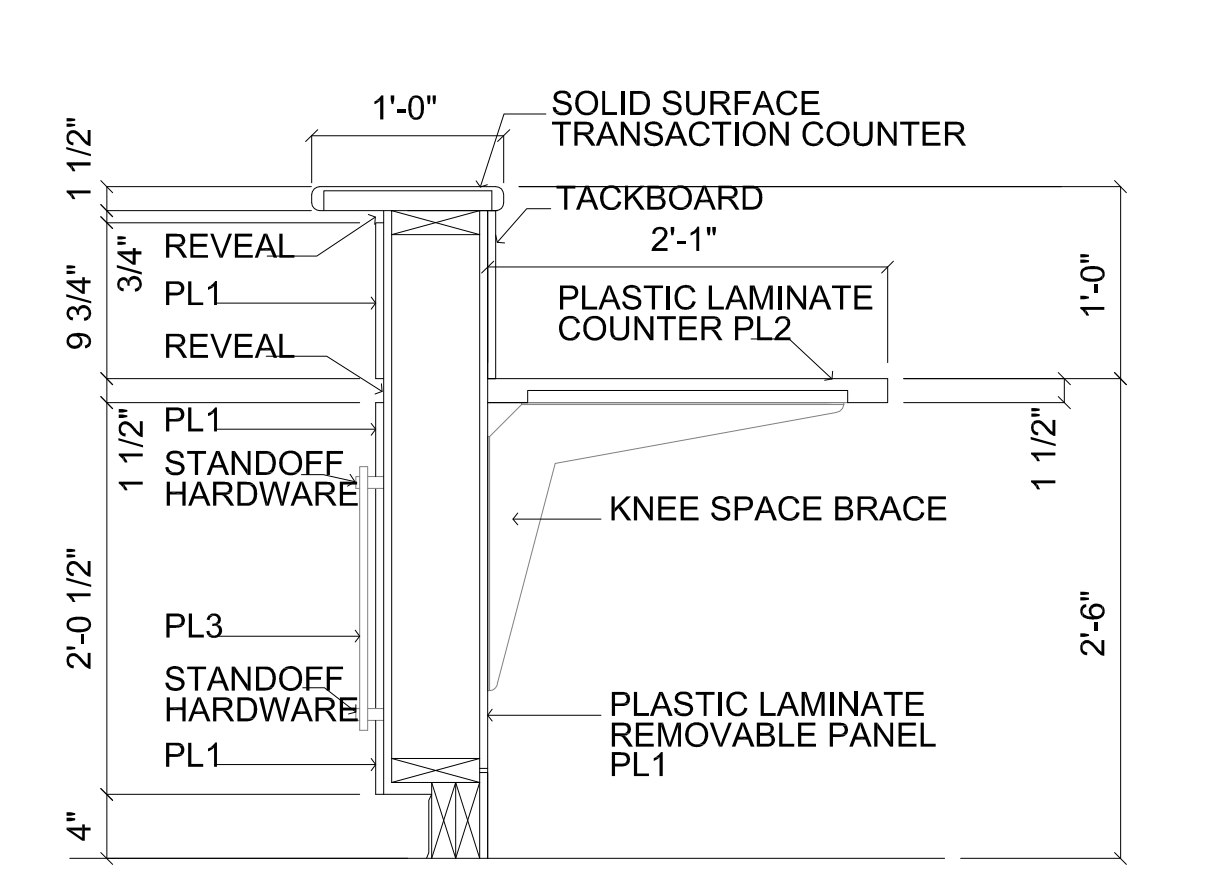
01 BASE CABINET DETAIL
1" = 1'-0"



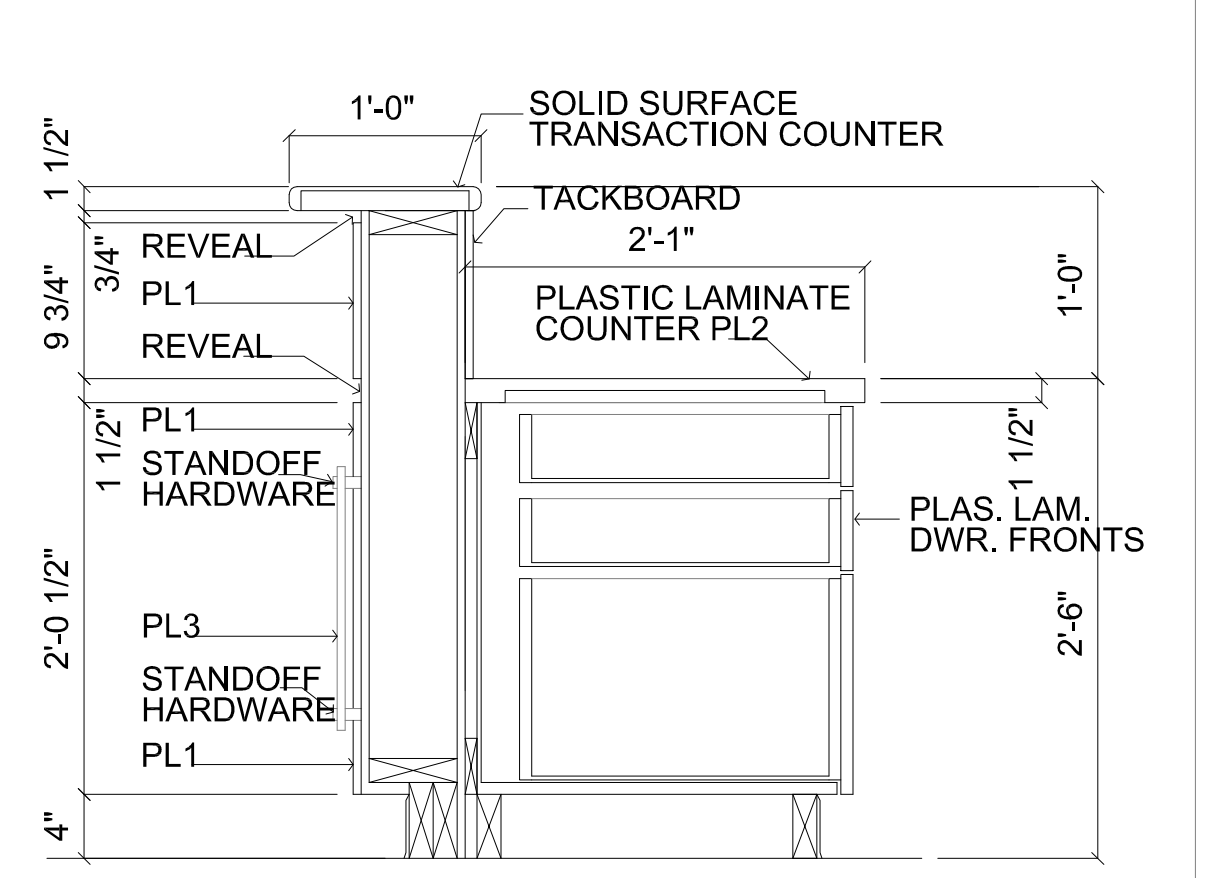
13 WALL CABINET DETAIL
1" = 1'-0"



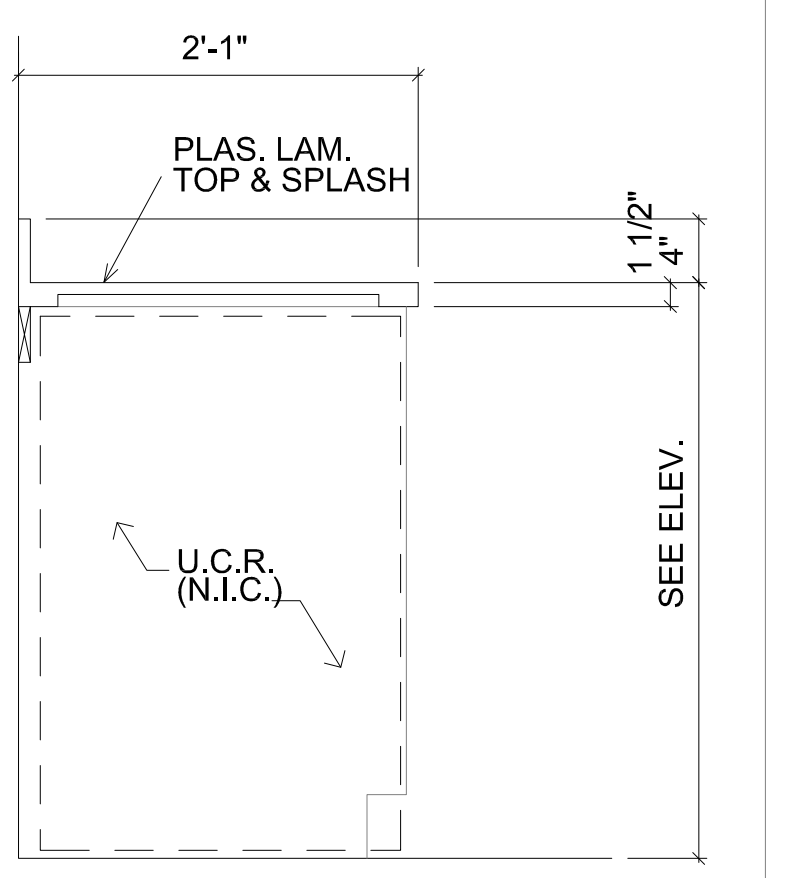
12 WALL CABINET DETAIL
1" = 1'-0"



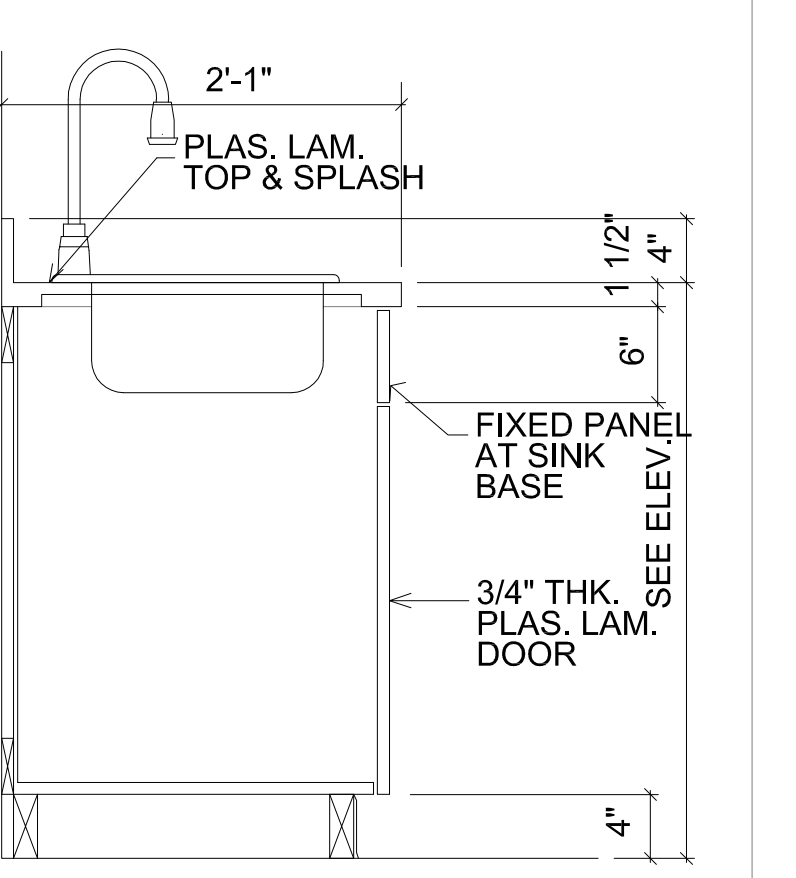
11 DETAIL AT RECEPTION DESK
1" = 1'-0"



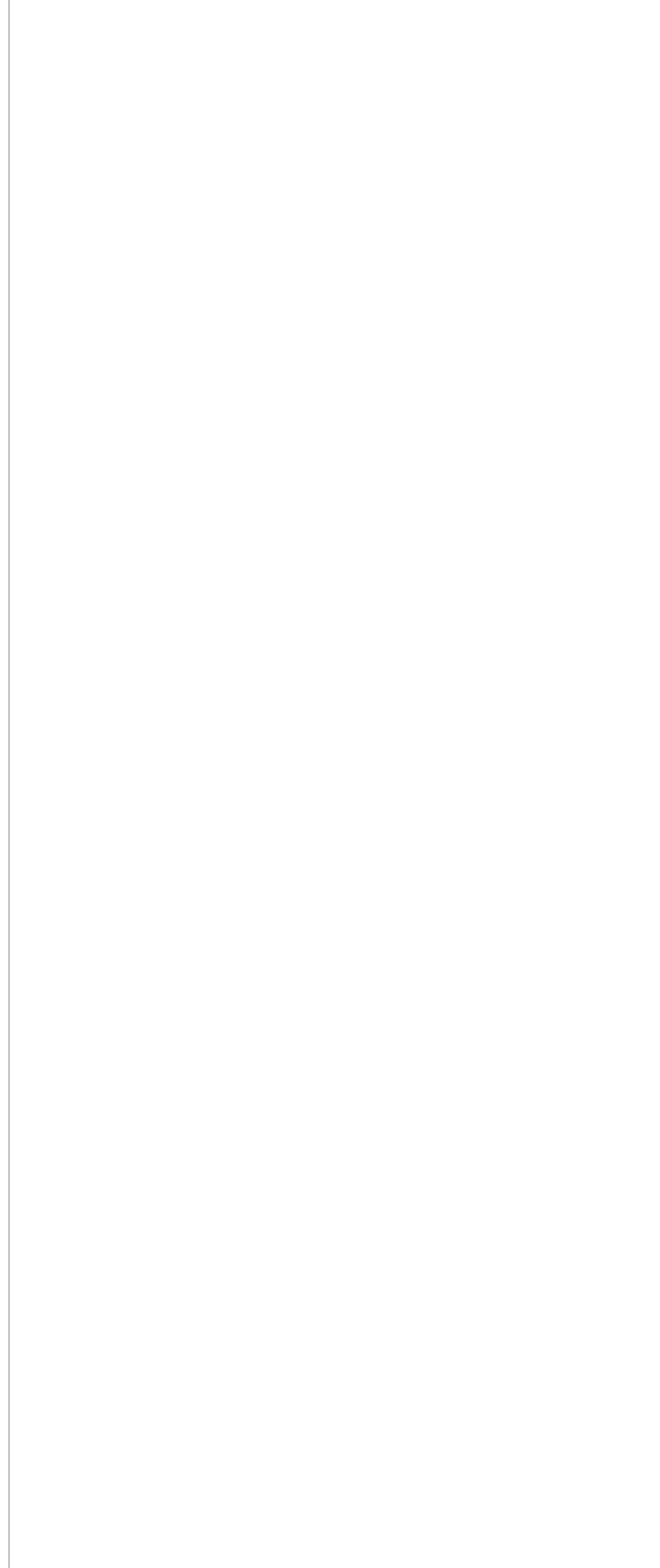
10 DETAIL AT RECEPTION DESK
1" = 1'-0"



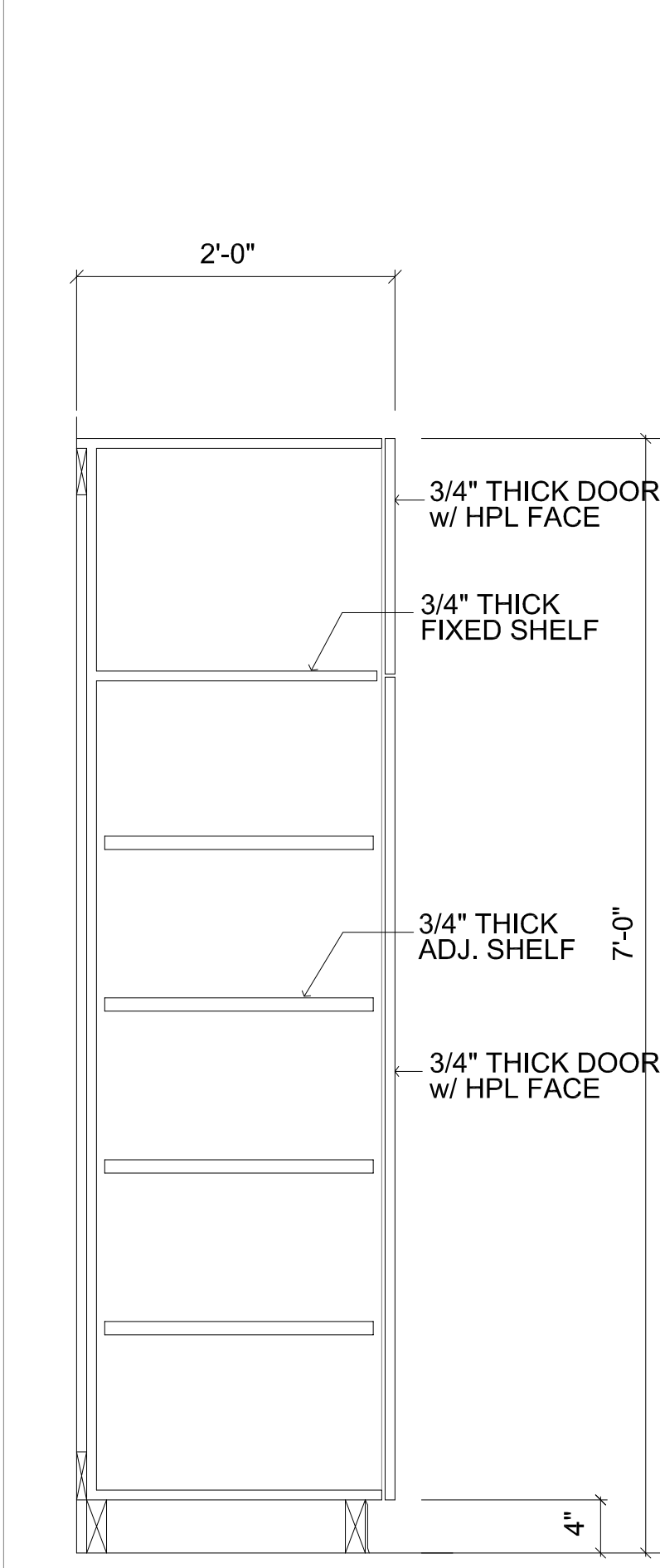
09 DETAIL AT UCR
1" = 1'-0"



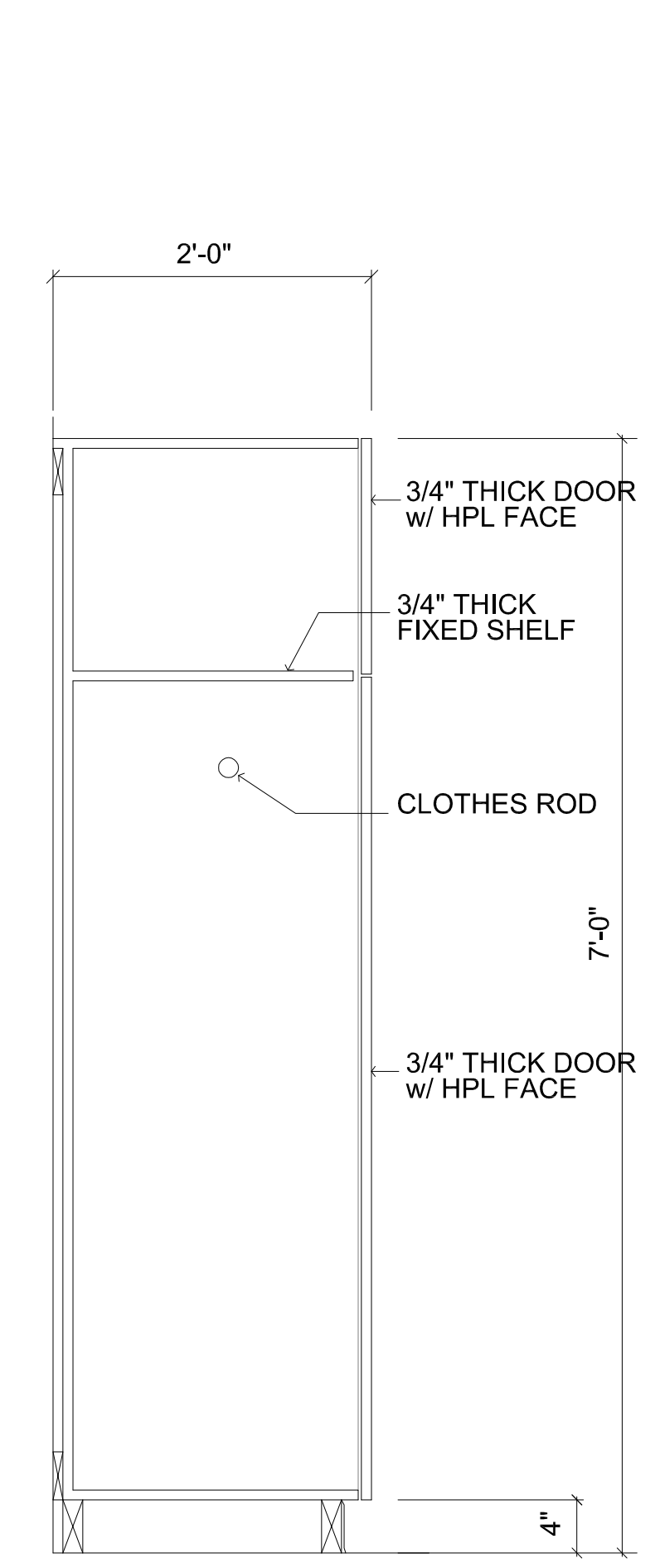
08 SINK BASE DETAIL
1" = 1'-0"



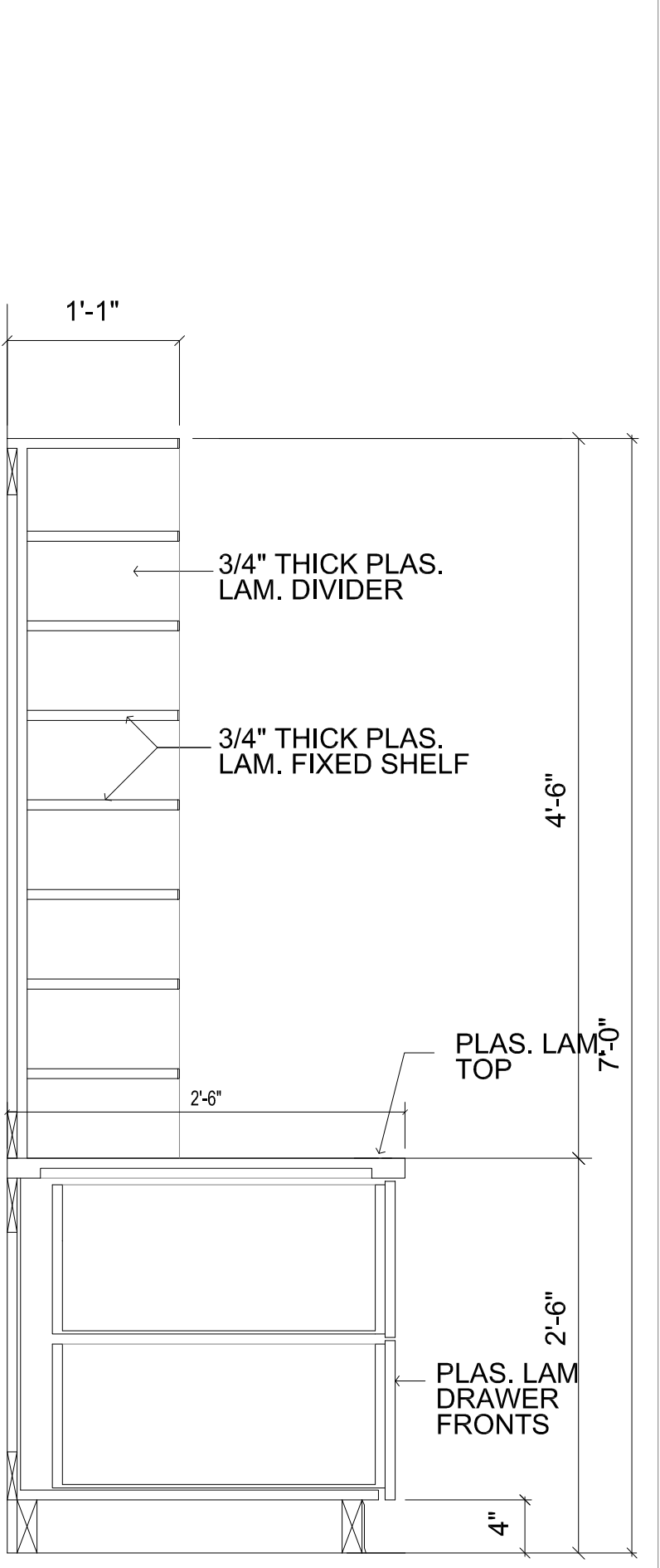
19 FULL HEIGHT CABINET DETAIL
1" = 1'-0"



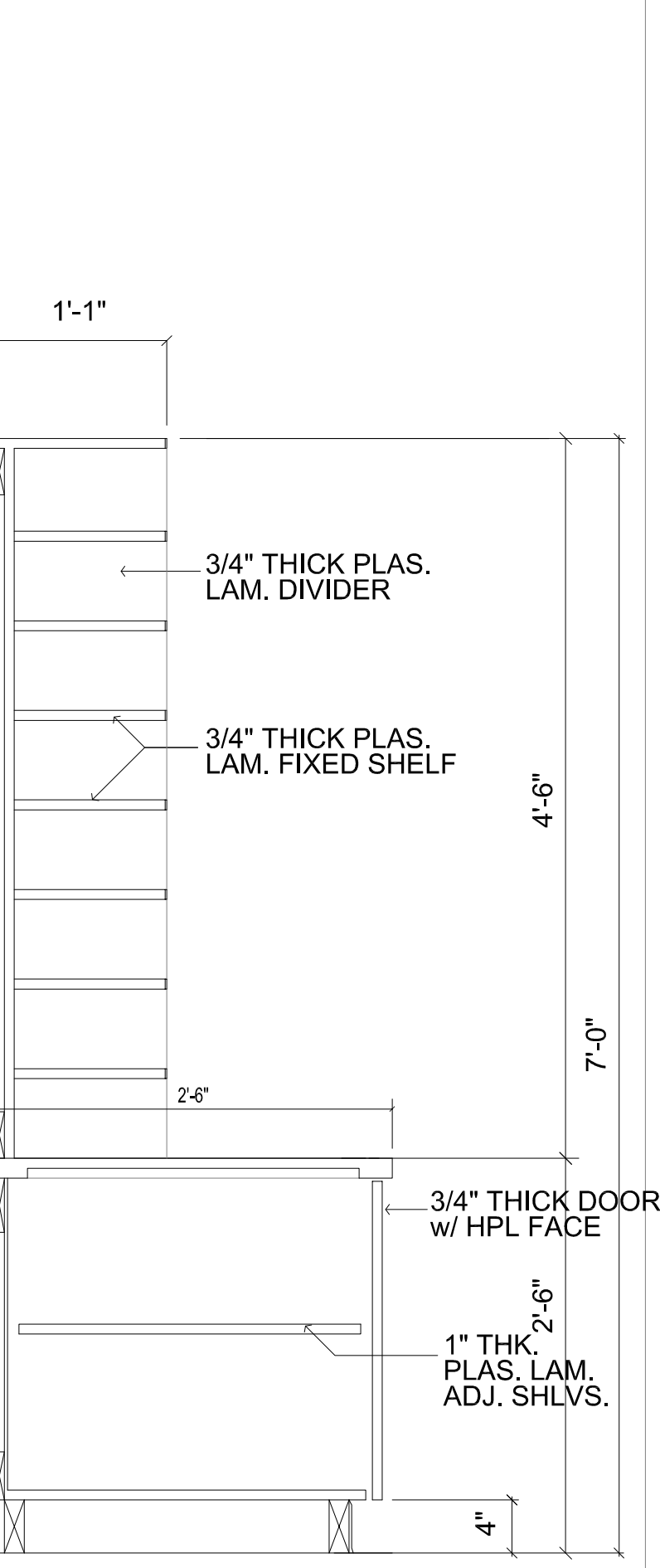
18 FULL HEIGHT CABINET DETAIL
1" = 1'-0"



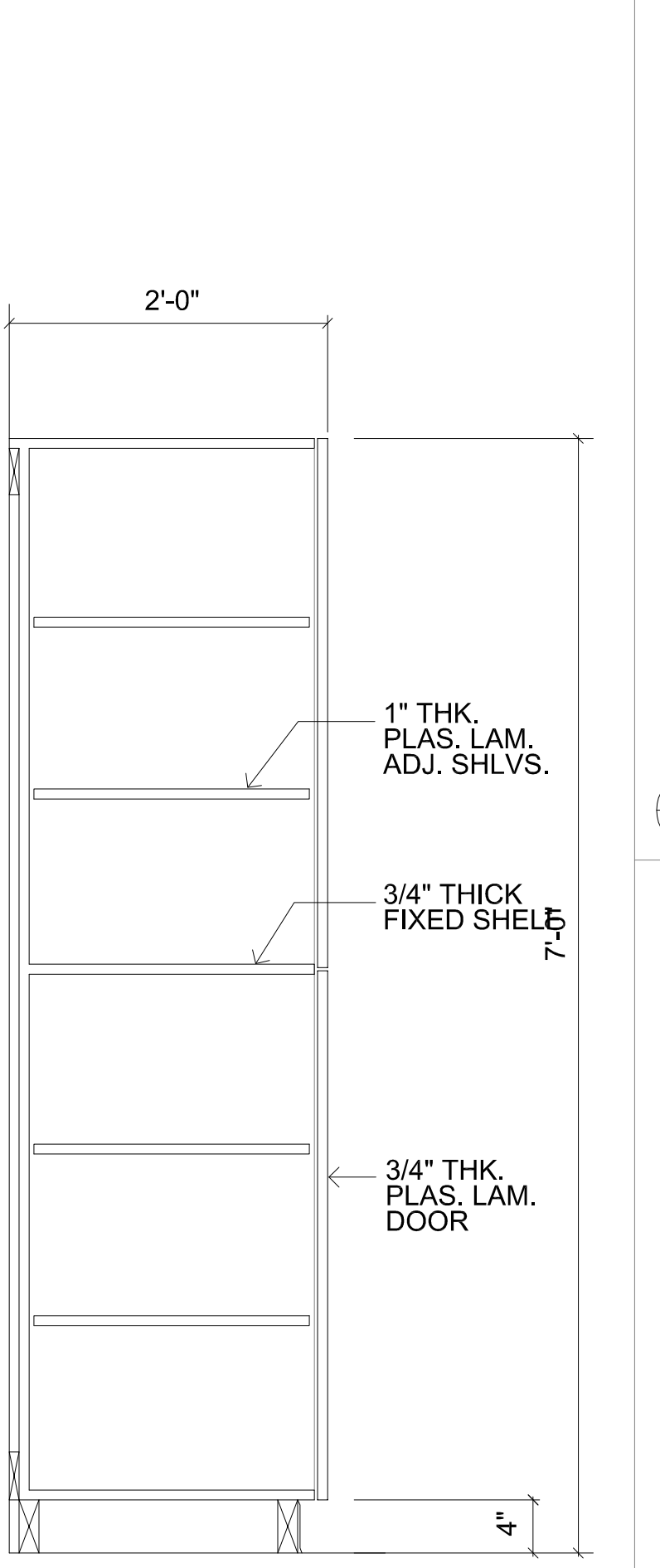
17 MAILBOX CABINET DETAIL
1" = 1'-0"



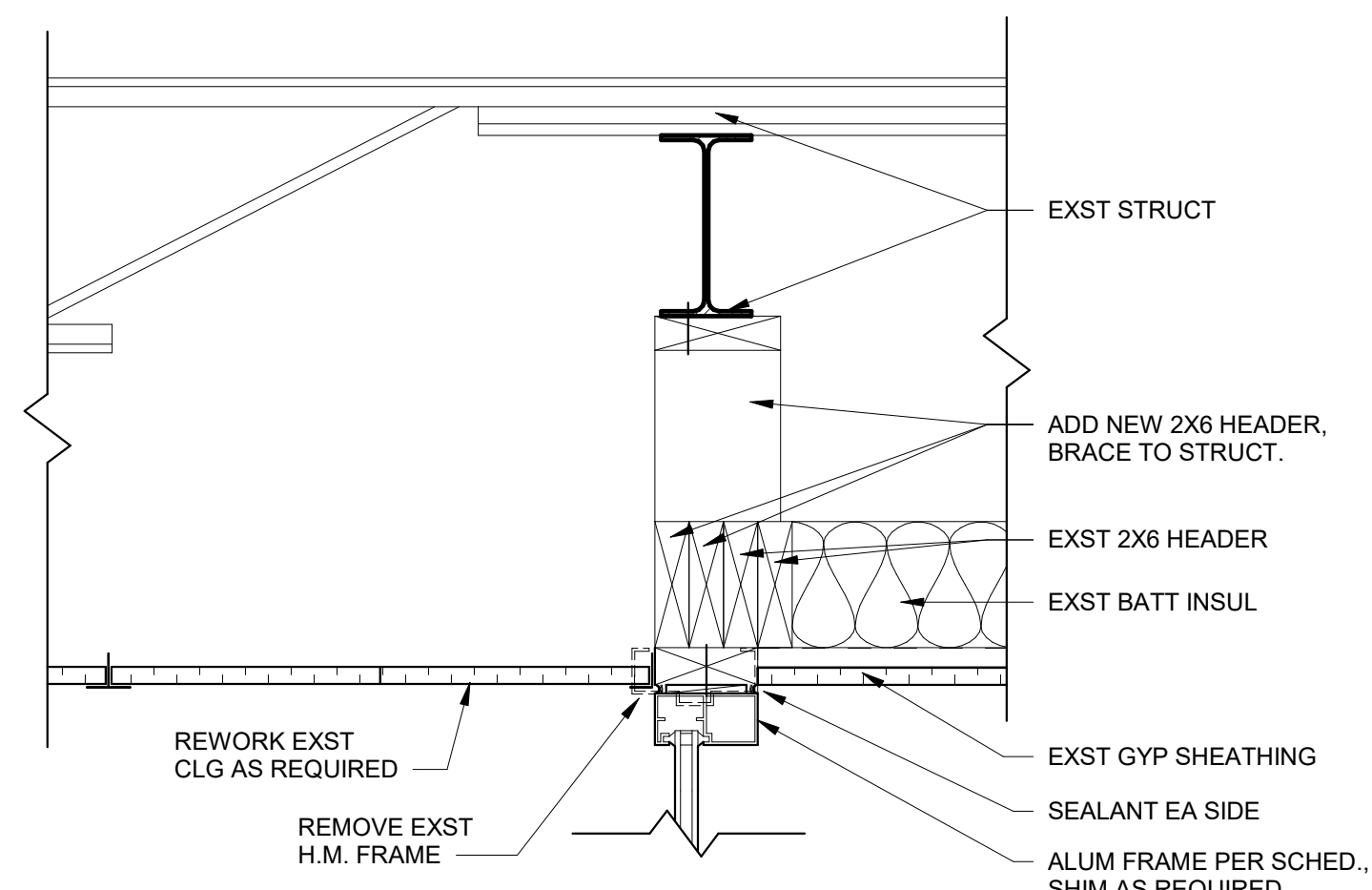
16 MAILBOX CABINET DETAIL
1" = 1'-0"



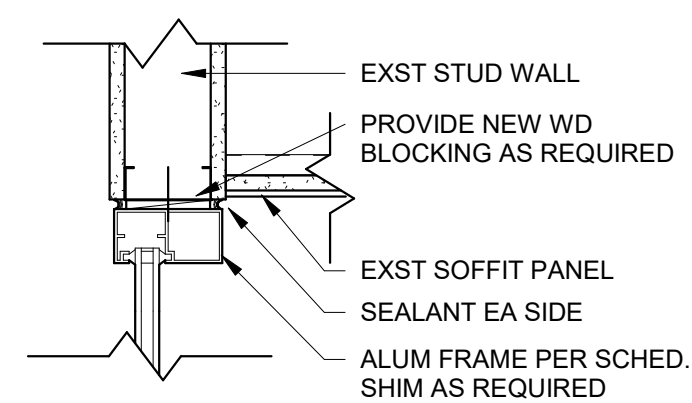
15 FULL HEIGHT CABINET DETAIL
1" = 1'-0"



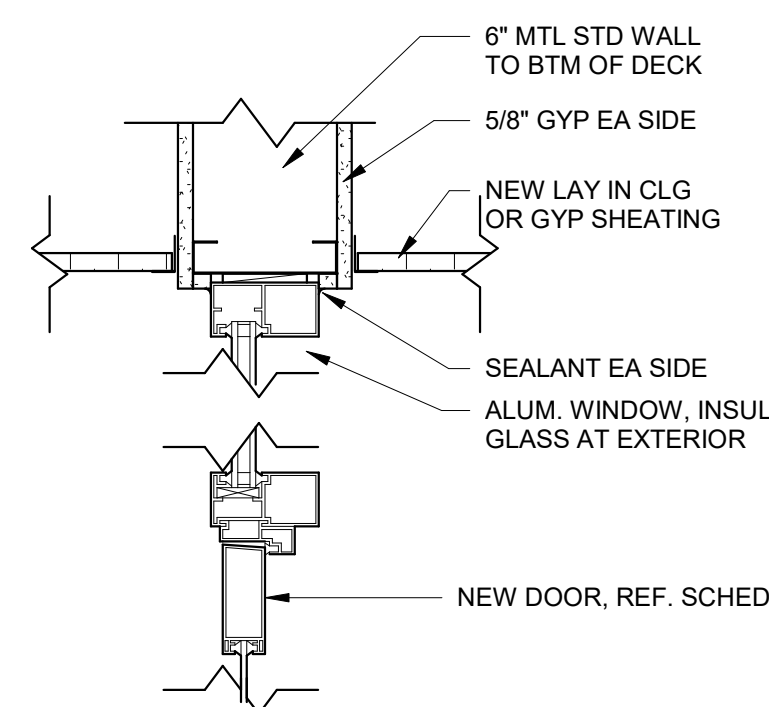
14 MICROWAVE WALL CABINET
1" = 1'-0"



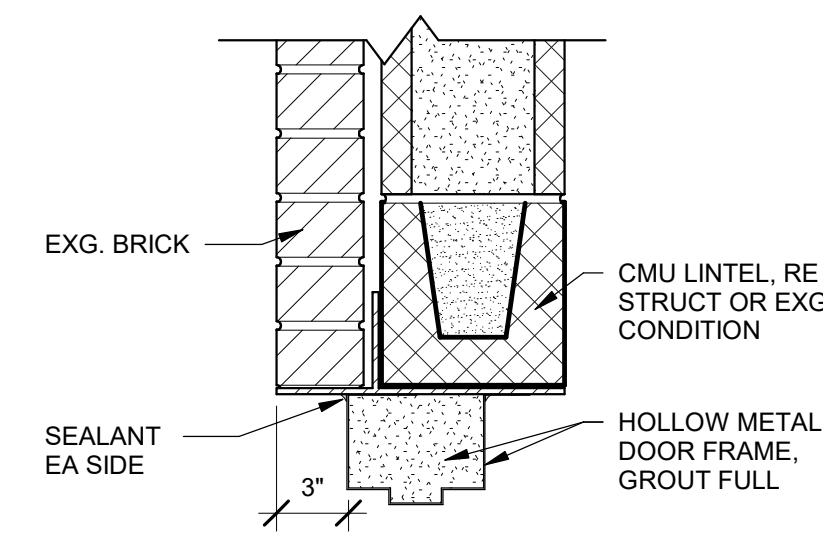
6 ALUM - HEAD DETAIL
1 1/2" = 1'-0"



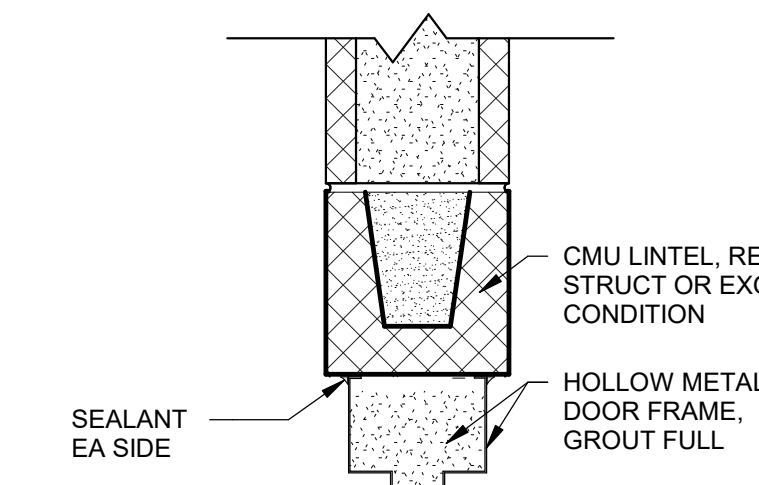
5 ALUM - HEAD DETAIL
1 1/2" = 1'-0"



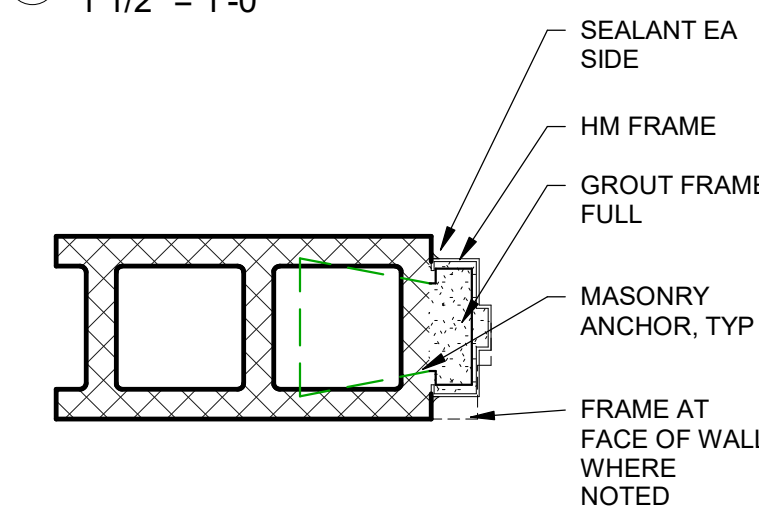
4 ALUM - HEAD DETAIL
1 1/2" = 1'-0"



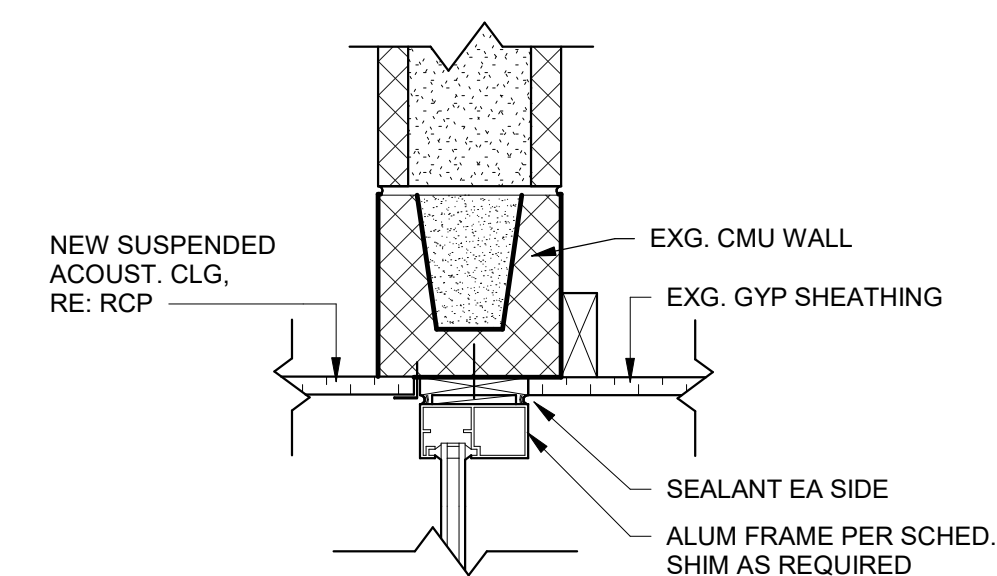
3 HM - DOOR HEAD
1 1/2" = 1'-0"



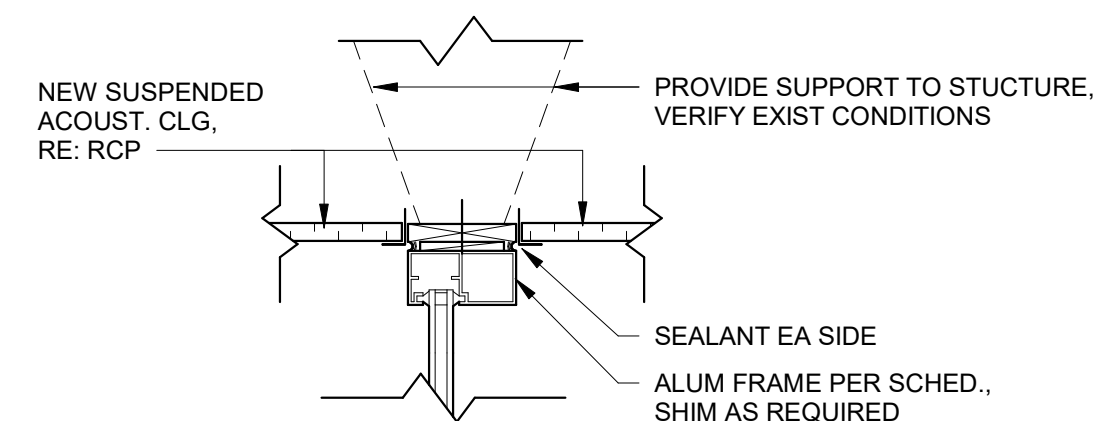
1 HM - DOOR HEAD
1 1/2" = 1'-0"



2 HM - DOOR JAMB
1 1/2" = 1'-0"

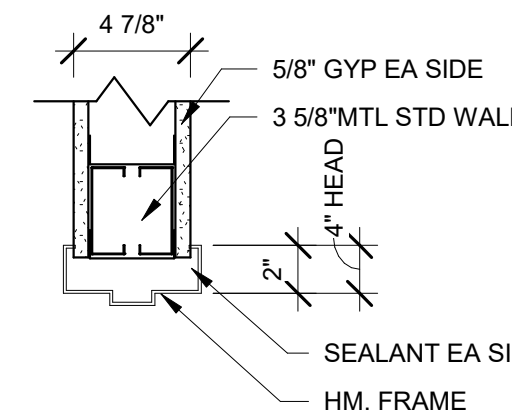


11 ALUM - HEAD DETAIL
1 1/2" = 1'-0"

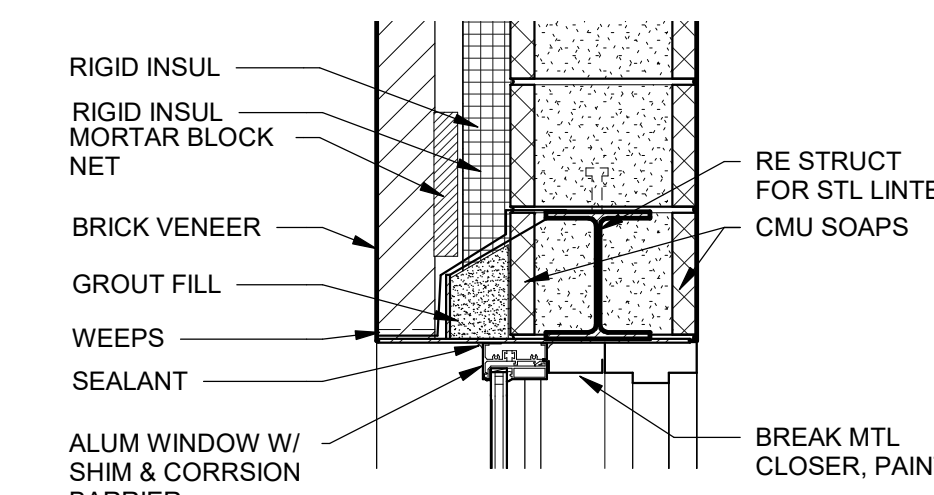


10 ALUM - HEAD DETAIL
1 1/2" = 1'-0"

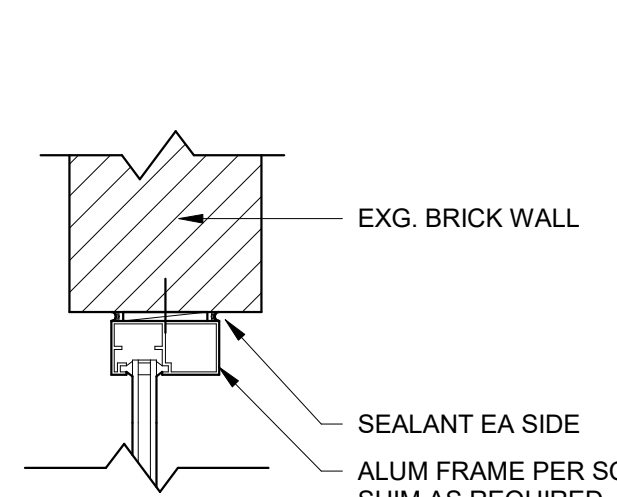
9 NOT USED



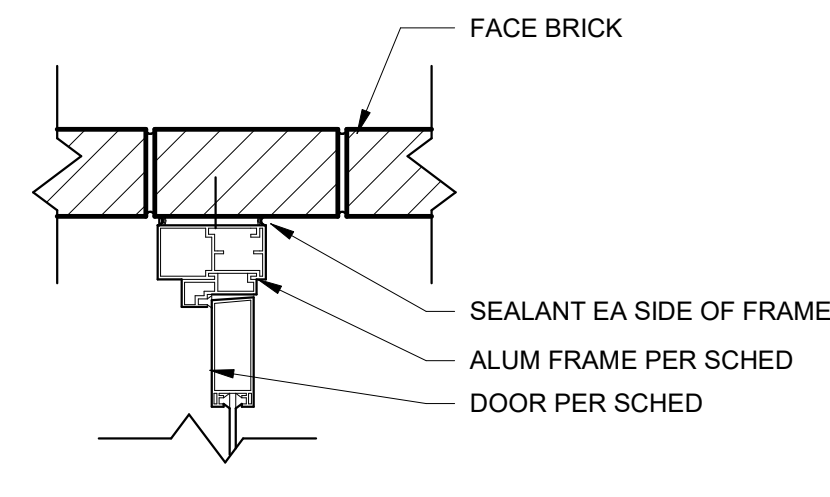
8 HM - DOOR HEAD (JAMB SIM)
1 1/2" = 1'-0"



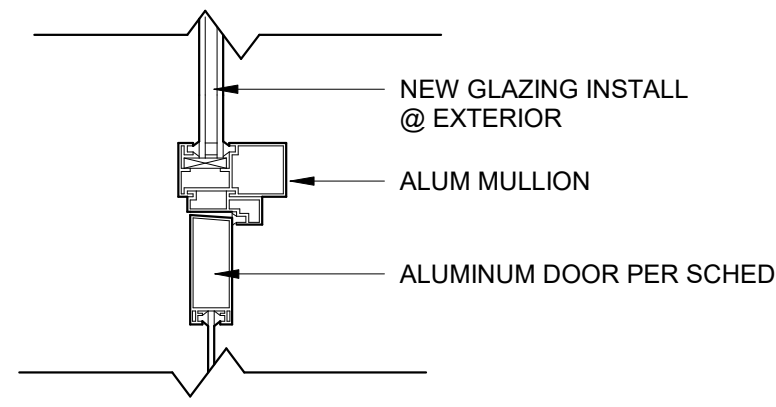
7 SHUTTER HEAD
1" = 1'-0"



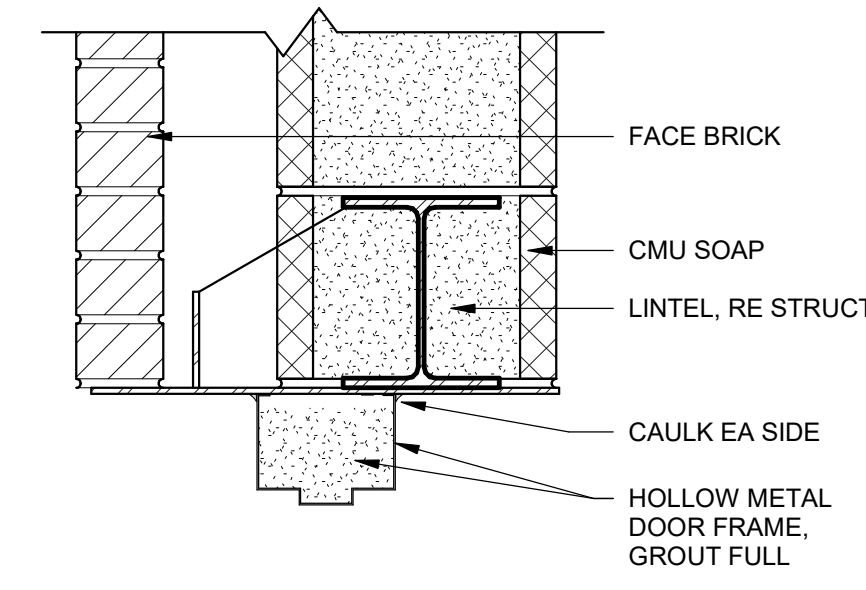
16 ALUM - JAMB DETAIL
1 1/2" = 1'-0"



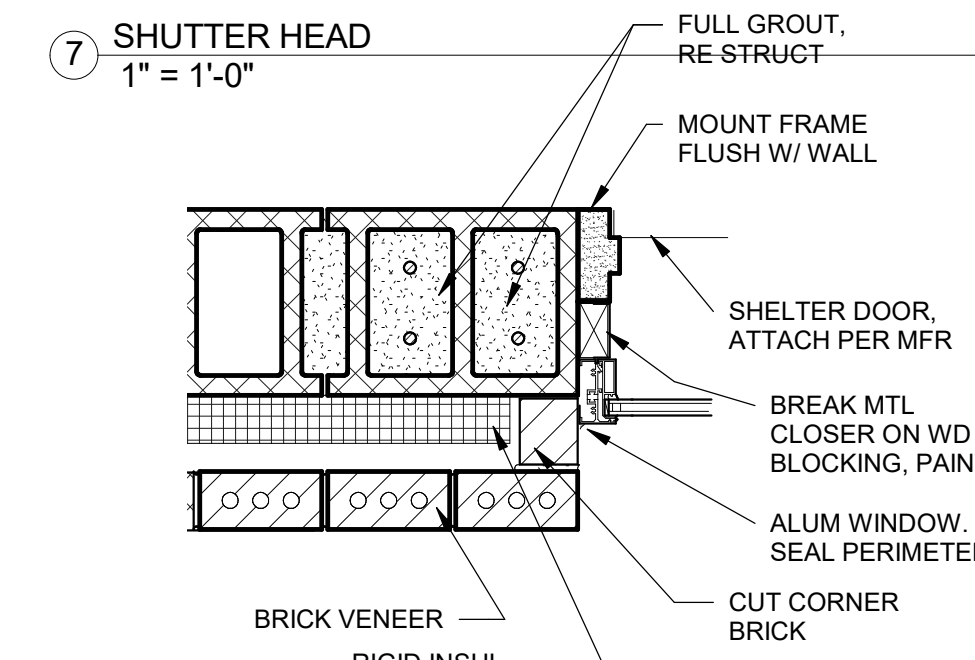
15 ALUM - JAMB DETAIL (SIM @ HM FRAME)
1 1/2" = 1'-0"



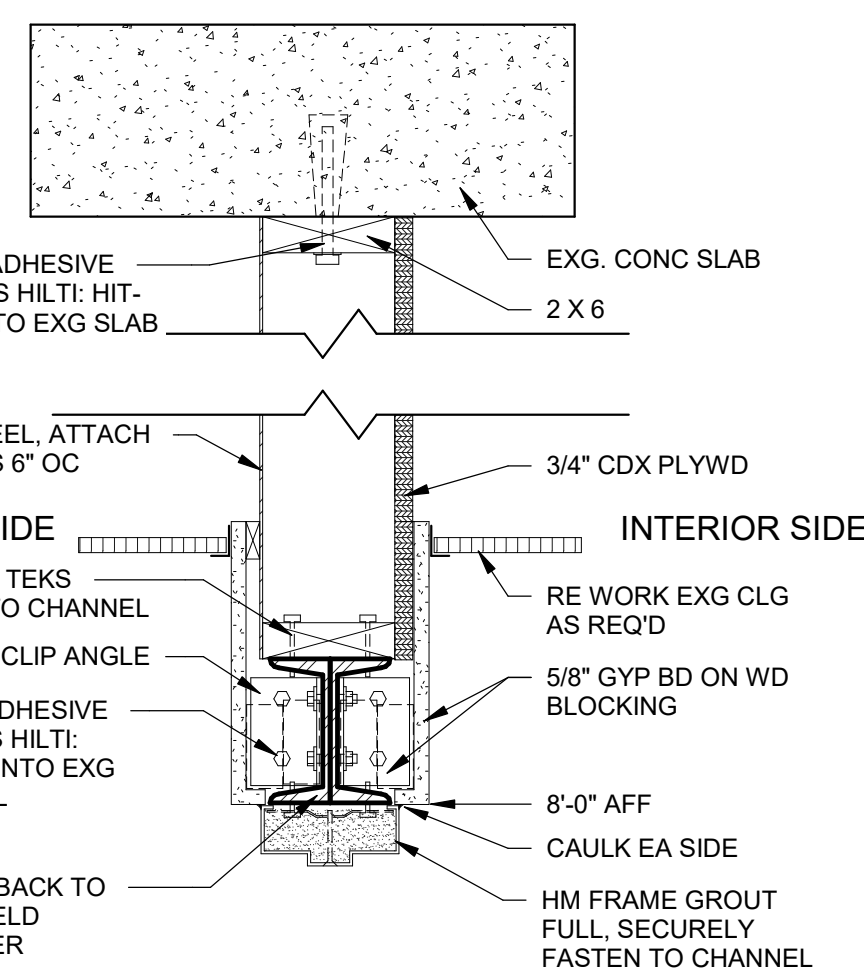
14 ALUM - JAMB DETAIL
1 1/2" = 1'-0"



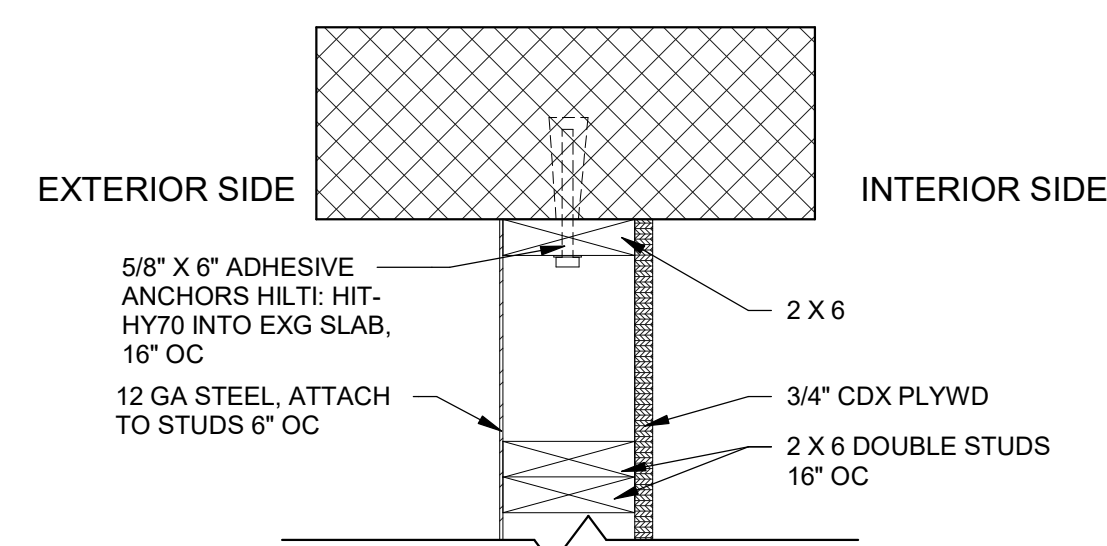
13 HM - DOOR HEAD
1 1/2" = 1'-0"



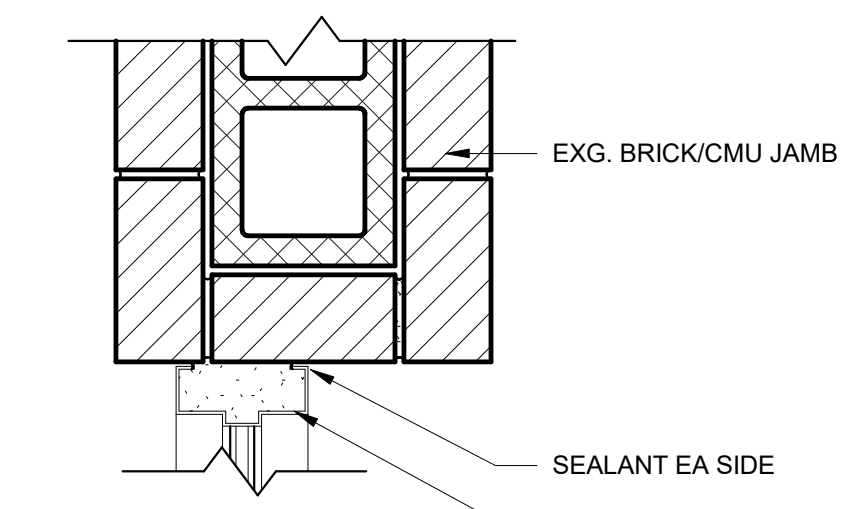
12 SHUTTER JAMB
1" = 1'-0"



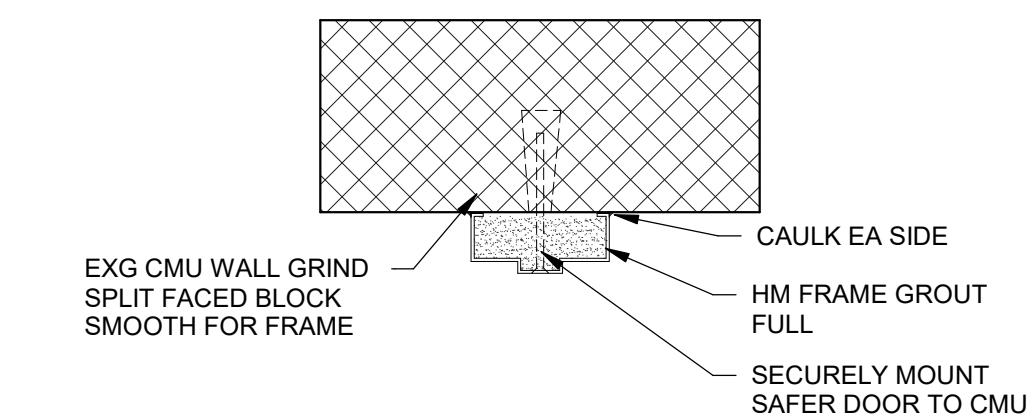
21 HM - STORM DOOR HEAD
1 1/2" = 1'-0"



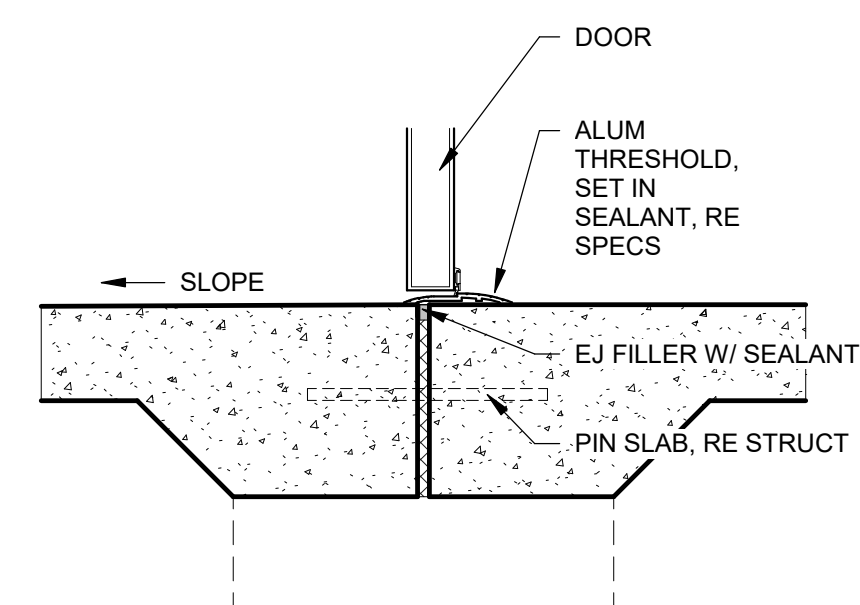
20 HM-STORM DR JAMB DTL ABOVE CLG
1 1/2" = 1'-0"



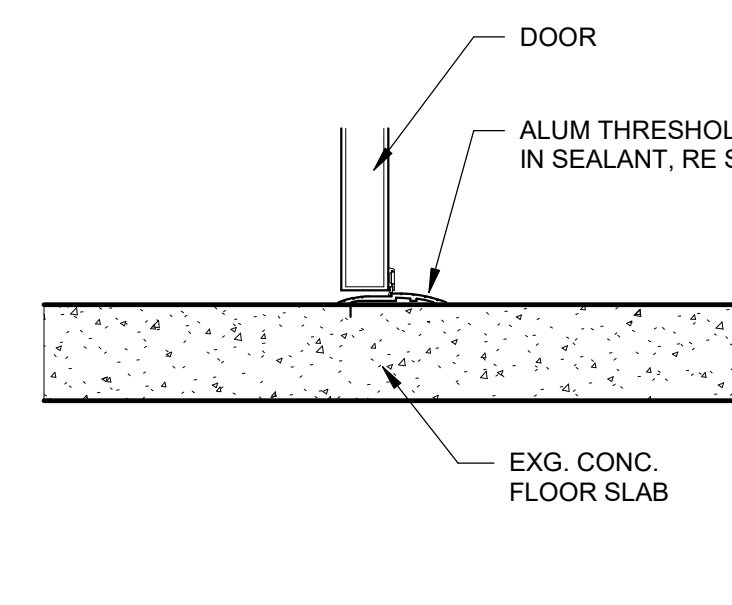
19 HM - JAMB DETAIL
1 1/2" = 1'-0"



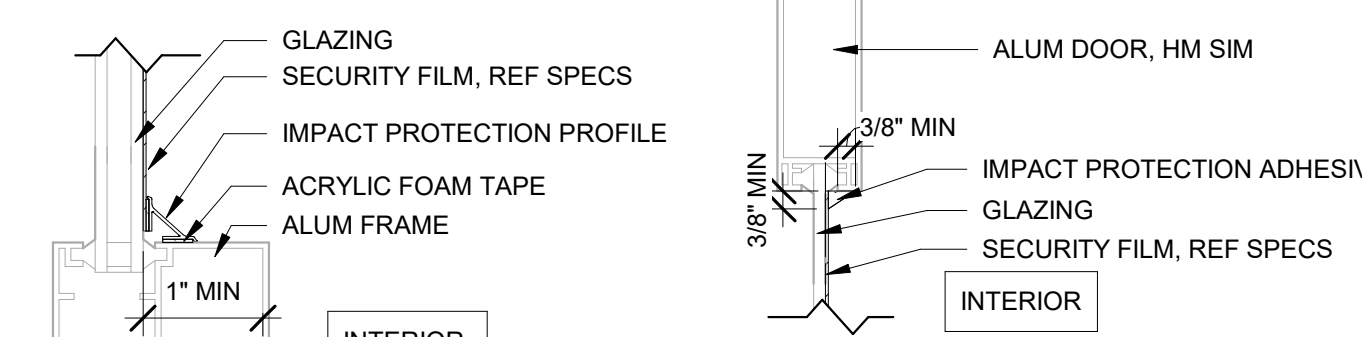
25 HM - STORM DR JAMB DETAIL
1 1/2" = 1'-0"



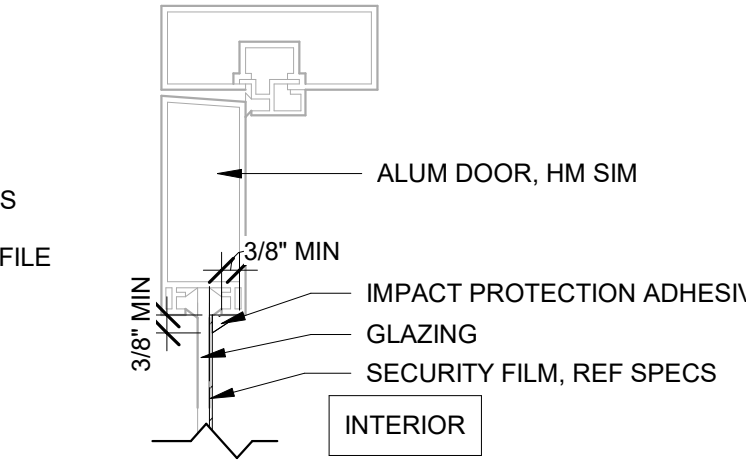
24 DOOR SILL
1 1/2" = 1'-0"



23 DOOR SILL @ EXG. SLAB
1 1/2" = 1'-0"



22 SECURITY FILM DETAIL
3" = 1'-0"



DOOR SCHEDULE

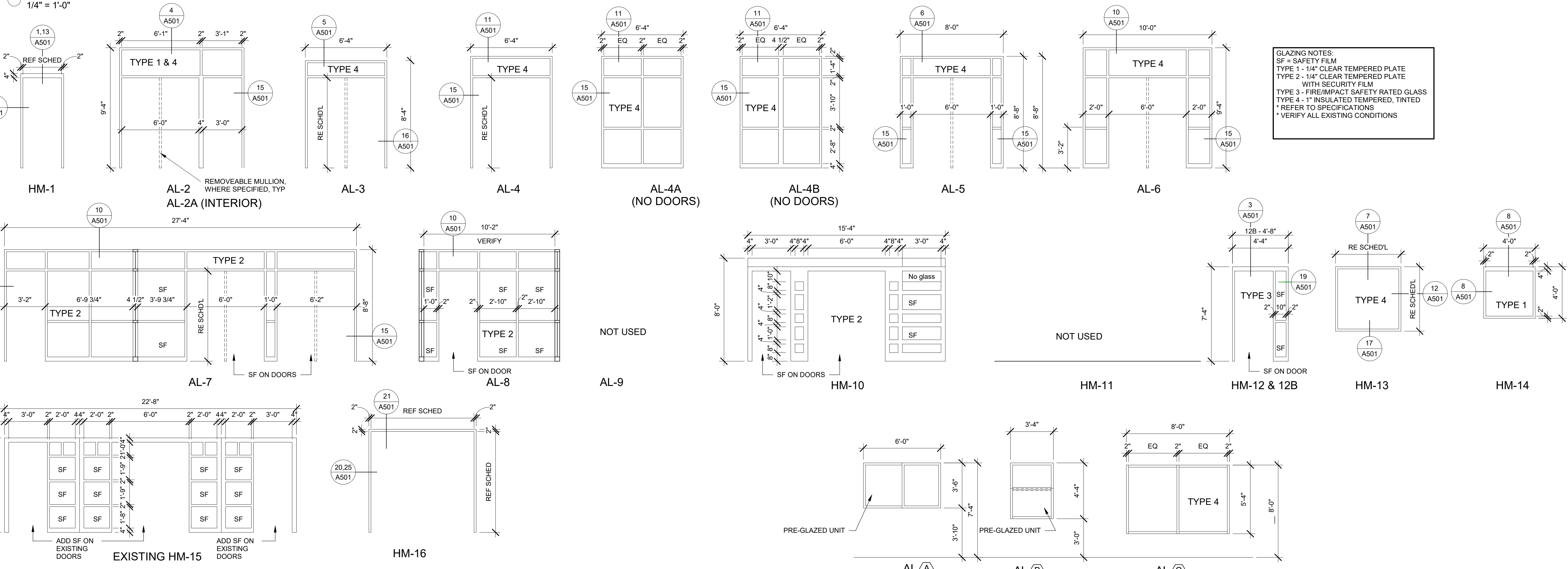
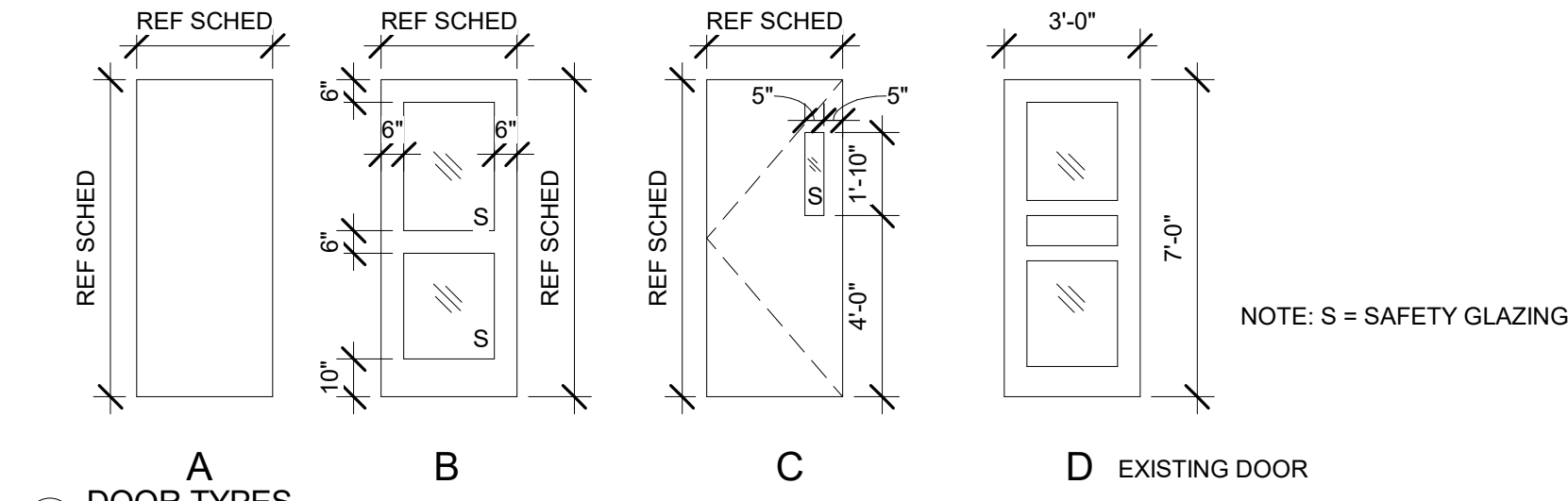
WT	TYPE	DOOR				FIRE RATING	HARDWARE HEADING	FRAME					NOTES	
		WIDTH	HEIGHT	MATERIAL	FINISH			TYPE	MATERIAL	FINISH	HEAD	JAMB		SILL
A100A	B	6'-0"	7'-0"	ALUM	ANOD	---	---	2	ALUM	ANOD	4	15	-	
A100B	B	3'-0"	7'-0"	ALUM	ANOD	---	---	2	ALUM	ANOD	4	15	-	
A100C	B	3'-0"	7'-0"	ALUM	ANOD	---	---	2	ALUM	ANOD	4	15	24	
A100D	B	6'-0"	7'-0"	ALUM	ANOD	---	---	2	ALUM	ANOD	4	15	24	
A102A	A	3'-0"	7'-0"	HM	PT-1	90 MIN	---	1	HM	PT-1	13	18	-	SHELTER DOOR
A102B	A	3'-0"	7'-0"	HM	PT-1	90 MIN	---	1	HM	PT-1	13	18	24	SHELTER DOOR
A102C	A	7'-8"	5'-0"	HM	PT-1	90 MIN	---	13	HM	PT-1	7	12	17	SHELTER DOOR
E114	B	6'-0"	7'-0"	ALUM	ANOD	---	---	3	ALUM	ANOD	5	16	23	
E120	B	6'-0"	7'-0"	ALUM	ANOD	---	---	5	ALUM	ANOD	5	16	23	
E121	B	6'-0"	7'-0"	ALUM	ANOD	---	---	5	ALUM	ANOD	6	15	23	
E122A	B	6'-0"	7'-0"	ALUM	ANOD	---	---	4	ALUM	ANOD	11	15	23	
E122B	B	6'-0"	7'-0"	ALUM	ANOD	---	---	4	ALUM	ANOD	11	15	23	
E122C	B	6'-0"	7'-0"	ALUM	ANOD	---	---	7	ALUM	ANOD	10	14	-	
E122D	B	6'-0"	7'-0"	ALUM	ANOD	---	---	7	ALUM	ANOD	10	15	-	
E123A	B	3'-0"	7'-0"	ALUM	ANOD	---	---	8	ALUM	ANOD	10	14	-	
E123B	B	3'-0"	7'-0"	ALUM	ANOD	---	---	7	ALUM	ANOD	10	15	-	
E124	C	3'-0"	7'-0"	WD	STN & VAR	---	---	1	HM	PT-1	1	2	-	
E128	B	6'-0"	7'-0"	ALUM	ANOD	---	---	6	ALUM	ANOD	10	4	23	
M100A	B	3'-0"	7'-0"	WD	PT-2	---	---	12	HM	PT-2	3	19	-	
M100B	D	6'-0"	7'-0"	HM	PT-2	---	---	10	HM	PT-2	8	3	-	REUSE EXG DOOR IN NEW FRAME
M100C	D	3'-0"	7'-0"	HM	PT-2	---	---	10	HM	PT-2	8	3	-	REUSE EXG DOOR IN NEW FRAME
M100D	D	3'-0"	7'-0"	HM	EXG	---	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
M100E	D	3'-0"	7'-0"	HM	EXG	---	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
M100F	D	6'-0"	7'-0"	HM	EXG	---	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
M100G	C	3'-0"	7'-0"	WD	EXG	20 MIN	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
W100A	B	3'-0"	7'-0"	ALUM	EXG	---	---	EXG	ALUM	EXG	-	-	-	EXST DOOR & FRAME
W100B	B	3'-0"	7'-0"	ALUM	EXG	---	---	EXG	ALUM	EXG	-	-	-	EXST DOOR & FRAME
W100C	B	3'-0"	7'-0"	HM	EXG	---	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
W100D	B	3'-0"	7'-0"	HM	EXG	---	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
W100E	B	3'-0"	7'-0"	HM	EXG	---	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
W100F	B	3'-0"	7'-0"	HM	PT-3	---	---	16	HM	PT-3	3	19	-	
W101	C	3'-0"	7'-0"	WD	EXG	20 MIN	---	EXG	HM	EXG	-	-	-	EXST DOOR & FRAME
W102	C	3'-0"	7'-0"	WD	EXG	---	---	1	HM	PT-3	8	8	-	EXG DOOR & FRAME, MOVED AND REUSED
W114A	A	7'-8"	7'-10"	HM	PT-3	20 MIN	---	16	HM	PT-3	21	20,25	-	
W114B	A	7'-8"	7'-0"	HM	PT-3	90 MIN	---	EXG	HM	PT-3	-	-	-	NEW DOORS IN EXG FRAME
W115A	A	7'-8"	7'-10"	HM	PT-3	20 MIN	---	16	HM	PT-3	21	20,25	-	
W115B	A	7'-8"	7'-0"	HM	PT-3	90 MIN	---	EXG	HM	PT-3	-	-	-	NEW DOORS IN EXG FRAME

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	NOTES
				NORTH	EAST	SOUTH	WEST		
A100	VEST	WCPT	BRICK	BRICK	GLAZING	BRICK	GLAZING	SAT-1	HOLD DOWN CLIPS
A101	CORRIDOR	CPT	BRICK	BRICK	GLAZING	BRICK	---	SAT-1	
A102	MUSIC/SHELTER	CPT	VB	PT	PT	PT	PT	SAT-1	
E100	CORRIDOR	---	---	---	---	---	---	SAT-1	
E101	LOCKER	---	---	---	---	---	---	---	
E102	SHOWER	---	---	---	---	---	---	---	
E103	INSTRUMENT	---	---	---	---	---	---	SAT-1	
E104	BAND	---	---	---	---	---	---	SAT-1	
E105	OFFICE	---	---	---	---	---	---	SAT-1	
E106	PRACT	---	---	---	---	---	---	SAT-1	
E107	JAN	---	---	---	---	---	---	---	
E108	MECH	---	---	---	---	---	---	---	
E109	BOYS	---	---	---	---	---	---	SAT-1	
E110	GIRLS	---	---	---	---	---	---	SAT-1	
E111	JAN	---	---	---	---	---	---	---	
E112	CLASSROOM	---	---	---	---	---	---	SAT-1	
E113	CLASSROOM	---	---	---	---	---	---	SAT-1	
E114	CORRIDOR	---	---	---	---	---	---	SAT-1	
E115	CLASSROOM	---	---	---	---	---	---	SAT-1	
E116	CLASSROOM	---	---	---	---	---	---	SAT-1	
E117	CLASSROOM	---	---	---	---	---	---	SAT-1	
E118	CLASSROOM	---	---	---	---	---	---	SAT-1	
E119	ELECT	---	---	---	---	---	---	SAT-1	
E120	CORRIDOR	---	---	---	---	---	---	SAT-1	
E121	CORRIDOR	---	---	---	---	---	---	SAT-1	
E122	VEST	WCPT	BRICK	GLAZING	GLAZING	BRICK	GLAZING	SAT-1	
E123	WAIT	WCPT	BRICK	BRICK	GLAZING	GLAZING	GLAZING	SAT-1	
E124	RECPT	CPT	VB	PT	PT	PT	PT	SAT-1	
E125	NURSE	VCT	VB	PT	PT	PT	PT	SAT-1	
E126	ADMIN	CPT	VB	PT	PT	PT	PT	SAT-1	
E127	CORRIDOR	CPT	VB	PT	PT	PT	PT	SAT-1	
M100	VEST	WCPT	---	---	---	---	---	---	
M101	COMMONS	---	---	---	---	---	---	---	TOUCH UP PAINT. RE WORK CEILING AS REQ'D
M102	RECPT	CPT	---	---	---	---	---	---	MATCH EXG WCPT WHERE VCT IS REMOVED
W100	VESTIBULE	---	---	---	---	---	---	---	CUT EXG AT NEW DOOR FRAME
W101	WAIT	CPT	VB	PT	PT	PT	PT	SAT-1	CUT EXG AT NEW DOOR FRAME
W102	NURSE	VCT	VB	PT	PT	PT	PT	SAT-1	PATCH WCPT AT NEW DOOR
W103	RECPT	CPT	VB	PT	PT	PT	PT	SAT-1	TEXTURE WALLS FROM EXG VINYL WALL COVERING
W104	RESTROOM	---	---	---	---	---	---	---	TEXTURE WALLS FROM EXG VINYL WALL COVERING
W105	OFFICE	CPT	VB	PT	PT	PT	PT	---	
W106	OFFICE	CPT	VB	PT	PT	PT	PT	---	
W107	I.S.S.	CPT	VB	PT	PT	PT	PT	---	
W108	WORK ROOM	CPT	VB	PT	PT	PT	PT	---	
W109	CONF	CPT	VB	PT	PT	PT	PT	---	TEXTURE WALLS FROM EXG VINYL WALL COVERING
W110	RESTROOM	CT	CT	---	---	---	---	---	
W111	RESTROOM	CT	CT	---	---	---	---	---	
W112	I.S.S.	CPT	VB	PT	PT	PT	PT	---	
W114	CORRIDOR	---	---	---	---	---	---	---	
W115	CORRIDOR	---	---	---	---	---	---	---	

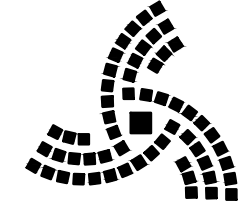
FINISH SCHEDULE LEGEND

CPT	CARPET	PT	PAINT
WCPT	WALK OFF CARPET	VB	VINYL BASE
CT	CERAMIC TILE	SAT	SUSPENDED CEILING TILE
CMU	CONCRETE MASONRY UNIT	SC	SEALED CONCRETE





2017-21



GMCN ARCHITECTS • PLANNERS

GIBSON, MANCINI, CARMICHAEL & NELSON ARCHITECTS, P.C. GARDEN CITY, KS 67846 (620) 274-9244 www.gmcncpa.com

WILEY ELEMENTARY, HOLCOMB ELEMENTARY HOLCOMB MIDDLE SCHOOL HOLCOMB, KANSAS

SAFETY AND SECURITY UPGRADES TO

SHEET TITLE: GENERAL NOTES

DATE: 4/17/2018

S001

FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS. NOTIFY THE ARCHITECT FOR DIRECTION IF THE ACTUAL EXISTING CONDITIONS DIFFER FROM THE EXISTING CONDITIONS SHOWN OR IMPLIED ON THE DRAWINGS.

GENERAL STRUCTURAL NOTES

General Contractor shall review and stamp all shop drawings before submitting for review. Field verify all existing dimensions, elevations, and conditions. Notify the Architect for direction if the actual existing conditions differ from the conditions shown or implied on the drawings. Verify all dimensions and elevations with the Architectural Drawings. See the Architectural Drawings for the exact dimensions for openings in the walls, roof, and floor systems. Verify all mechanical opening sizes and locations with the mechanical contractor. Verify all electrical opening sizes and locations with the electrical contractor. No pipes or beams through the beams or columns unless indicated on the plan. The contractor shall design, provide, and maintain temporary bracing, shoring, guying, etc. and other methods as required to prevent any excessive loading and to stabilize the structural elements during construction. These methods shall remain in place until all members and final connections are completed. The general, mechanical, and electrical contractors shall be responsible for the design of all embeds, inserts, anchors, and supplemental framing systems required for the support of the architectural, mechanical, and electrical systems which are not detailed on the structural drawings. Do not hang or attach any architectural, mechanical, or electrical elements or systems from the metal roof deck or any joist bridging unless specifically approved otherwise.

The foundation is designed for an allowable bearing pressure of 2000 psf as recommended in the Geotechnical Investigation Report prepared by Terracon, Job No. 01175240. The building structural system is designed per the International Building Code – 2015 Edition.

The owner and/or contractor shall perform all material testing and inspection requirements for compliance with the governing building code, the project specifications, the local building inspection department, and the following Structural Special Inspection Notes.

Steel joist, structural steel, and metal deck erection shall comply with OSHA Standard 29 CFR Part 1926, Subpart R and all other governing regulations. Steel joist and structural steel suppliers and fabricators shall incorporate the requirements of this standard into the materials fabricated and supplied on this project.

The Contractor shall perform temporary dewatering during the construction of the below grade portions of the project as required to maintain the ground water elevation to level at least two feet below the depth of deepest required excavation.

DESIGN LOADS

Building structure is designed for the following loads and criteria:

Table with columns for load type (Occupancy, Dead, Snow, Wind, etc.) and values (e.g., 3000 psf, 20 psf, etc.).

STRUCTURAL SPECIAL INSPECTIONS

The owner and/or contractor shall engage one or more qualified independent testing and inspecting agencies to perform the material testing and inspection requirements as outlined in the project specifications and this section. Contractor retained independent testing and inspection agencies are to be approved by the Architect. The contractor shall review the specifications and coordinate with the Architect to determine which party, the owner or contractor, is responsible for retaining an agency for each of the testing and inspection services. Testing and inspection reports shall be furnished to the Building Official, the Architect, and the Structural Engineer. Reports shall indicate that the materials tested and the work inspected are in conformance with the Contract Documents. Discrepancies shall be brought to the attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be reported to the Building Official, the Architect, and the Structural Engineer. The testing and inspecting agencies shall submit a final report for each type of work stating that any discrepancies noted in the testing and inspections have been corrected and that the structural work was, to the best of their knowledge, performed in conformance with the Contract Documents. The testing and inspection program does not relieve the Contractor of any responsibility for constructing the project in accordance with the Contract Documents and for controlling the quality of construction. The Contractor shall be responsible for the scheduling and the timely notification of the testing and inspection agencies of the need for material testing or inspections. All work which requires testing or inspection shall be ready for testing or inspection at the time of the testing and inspecting agency's visit. No work shall be performed which would conceal items to be tested or inspected until the work has been reviewed and accepted. The following types of work require special inspection (IBC references refer to the International Building Code edition referenced above): 1. Testing and inspection of steel construction shall comply with IBC Section 1705.2, IBC Table 1705.2.2, and American Institute of Steel Construction (AISC) Specification for Structural Steel Buildings 360. (IBC 2015 change to IBC Table 1705.2.3 and add Steel Deck Institute (SDI) Standard for Quality Control and Quality Assurance for Installation of Steel Deck 2011) a. Submit material test reports, manufacturer's certifications, product data sheets, welding procedure specifications, welding personnel performance qualification records, fabricator/erector quality control manual, fabricator/erector inspector qualifications as specified. Contractor shall maintain same for review by Architect/Engineer as indicated in AISC 360 Chapter N. b. Submit AWS performance qualification records for personnel performing shop fabrication or field erection welding. c. Perform visual inspection of the fabricated or erected steel framing to verify compliance with the construction drawings, including member location, bracing, stiffeners, and connection types. d. Perform visual inspection of all shop fabrication and field erection welds. e. Perform ultrasonic inspection of all partial or complete joint penetration welds during the shop fabrication and field erection. f. Perform continuous inspection of all fillet welds greater than 5/16" during the shop fabrication and field erection. g. Perform visual inspection of all snug-tightened (Type ST) bolted connections. h. Observe the pre-installation verification testing required for pretensioned bolted connections defined in the Research Council on Structural Connections (RCS) Specification for Structural Joints Using High Strength Bolts, Section 7. i. Perform visual inspection of all bolted connections using tension control bolts at slip-critical (Type SC) bolted connections and pretensioned (Type PT) bolted connections. j. Perform visual inspection of the placement of anchor rods and embed plates in concrete and concrete masonry. Verify diameter, grade, type, length, and embedment of anchors prior to placing concrete or grout. k. Perform visual inspection and bend testing of headed stud shear connectors in compliance with AWS D1.1, Section 7. l. Perform visual inspection of the metal floor and roof deck welding and/or fastener installation. m. Perform visual inspection of all extreme wind and impact-resistant safe room metal door frame connections to the concrete, precast, or masonry walls. 2. Testing and inspection of concrete construction shall comply with IBC Section 1705.3 and IBC Table 1705.3. a. Perform sampling and testing of cast-in-place concrete as specified. b. Perform periodic observation of reinforcing for steel size, cover, spacing, positioning, lap lengths and locations. c. Perform inspection of the reinforcing for steel size, cover, spacing, positioning, lap lengths and locations at slabs on grade. d. Perform inspection of concrete placement for proper procedures for transporting, placing, consolidating, and finishing of concrete. e. Perform periodic inspection of concrete curing and protection procedures, including compliance with the hot and cold weather requirements defined in the specifications. f. Contractor shall maintain records of all batch reports and delivery tickets on each load of concrete delivered to the project site for periodic review by the Architect/Engineer. g. Perform inspection of the reinforcing steel placement at the extreme wind safe room concrete topping and elevated slabs. 3. Testing and inspection of masonry construction shall comply with the quality assurance requirements of Section 3.1.2 Level B and Table 3.1.2 Level B of the TMS 402/ACI 530/ASCE 5 and Section 1.6 Level B and Table 4 of the TMS 602/ACI 530.1/ASCE. a. Periodically verify the proportions of site prepared mortar and grout. b. Periodically verify the masonry construction complies with the site tolerances defined in TMS 602/ACI 530.1/ASCE 6 Section 3.3f. c. Perform periodic inspection of the mortar joint preparation. d. Perform periodic inspection of the reinforcing steel grade, type, size, placement and positioning and the block core cleaning and preparation. e. Perform continuous inspection of the grout placement for proper consolidation, reconsolidation, and placement of the grout lift heights. f. Periodically verify the type, size, and location of anchors or embeds for anchorage of masonry to other construction. g. Periodically observe the preparation of the mortar specimens per ASTM C780 and grout specimens per ASTM C1019 for testing and as specified. 4. Testing and inspection of the soils shall comply with IBC Section 1705.6 and IBC Table 1705.6. a. Perform sampling, testing, and inspection of the soil type, exposed subgrade, moisture content, lift thickness, and compaction as specified. b. Perform periodic testing and inspection of the soils at the foundation system bearing elevation to verify the required soil bearing capacities. 5. Testing and inspection of post-installed anchors and post-installed reinforcing bars shall comply with IBC Section 1705.1.1 and IBC Table 1705.3. a. Perform an initial post-installed anchor and reinforcing bar installation inspection for each type and size of post-installed anchor and reinforcing bar. Any change in the personnel performing the post-installed anchor or reinforcing bar installation shall require an initial installation inspection. b. Perform periodic post-installed anchor and post-installed reinforcing bar installation inspections during the project to verify that the anchor and reinforcing bar installations are constructed in proper performance. c. Post-installed anchor and reinforcing bar installation inspections shall verify anchor/reinforcing bar type, diameter, embedment depth, spacing, adhesive type and expiration date, hole dimensions, hole cleaning procedures, tightening/installation torque, maximum impact wrench torque rating, and adherence to the manufacturer's printed installation instructions. d. Perform visual observation of all completed post-installed anchor and post-installed reinforcing bar installations. e. Perform continuous anchor installation inspections for all post-installed anchors and reinforcing bars that are installed in horizontally or upwardly inclined orientations to resist sustained tension loads.

SPECIAL REQUIREMENTS FOR EXTREME WIND SAFE ROOM

The extreme wind safe room is defined on the Architectural Drawings as System A102. The extreme wind safe room and all resisting structural systems are designed to meet extreme wind loading requirements in accordance with FEMA 361, Third Edition. The fabrication and erection of the extreme wind safe room's lateral and vertical load resisting structural elements and systems must comply with the structural special inspection requirements defined in the International Building Code – 2015 Edition, and the project specifications. The Contractor shall submit a written Contractor Statement of Responsibility from each Contractor responsible for the construction or erection of the extreme wind safe room structural elements and systems to the Building Official and the Architect prior to the commencement of construction. The registered design professional does not include or waive the responsibility for the inspection required by Section 110, 1704 or other sections of the IBC. Periodic structural observations are to be performed at significant construction stages and at the completion of the extreme wind safe room's structural system. A structural observation is required after the placement of the reinforcing steel in the extreme wind safe room foundation system. Formed foundation systems shall have a structural observation after the placement of the footing reinforcing and the foundation wall reinforcing. A structural observation of the extreme wind safe room masonry wall construction is required prior to beginning grouting procedures for the first lift of masonry and periodically during the remainder of the masonry wall construction. A structural observation is required after the placement of the reinforcing steel anchors at roof beam bearing and prior to grouting of the masonry. A structural observation is required after the installation of the steel roof framing, metal deck, headed stud shear connectors and the placement of the reinforcing steel in the concrete slab on metal deck and prior to placement of the concrete slab. A structural observation is required after the placement of the reinforcing steel in the extreme wind safe room cast-in-place concrete slab and prior to placement of cast-in-place concrete slab. The registered design professional's periodic structural observation reports of the extreme wind safe room shall be furnished to the Architect, the Structural Engineer and the Contractor by the next business day after the structural observations are completed. Structural observation reports are to identify any general conformance discrepancies brought to the attention of the Contractor for correction. The registered design professional's final structural observation report of the extreme wind safe room shall be furnished to the Building Official, the Architect, the Structural Engineer, and the Contractor. The final structural observation report is to state that the structural observations have been performed and identify any general conformance discrepancies that to the best of their knowledge have not been resolved. The Contractor shall be responsible for the scheduling and the timely notification of the registered design professional of the need for periodic structural observations. All work that requires structural observation shall be ready for observation at the time of the registered design professional's visit. No work shall be performed which would conceal items to be observed.

CAST-IN-PLACE CONCRETE

All concrete shall have the following minimum compressive strengths at 28-days. Footings and Foundation Walls: 3000 psi Interior Floor Slabs: 3500 psi Shelter Roof Deck: 4000 psi Exterior Slabs and Pavement: 4500 psi All aggregate for normal weight concrete shall meet ASTM C33. Aggregates shall be proportioned such that mix design shall contain a minimum of 50% coarse aggregates by gradation requirements set forth in ASTM C33. Coarse aggregate shall meet No. 67 grading requirements. Entirely exposed concrete shall have from 4 to 7% entrained air. Concrete shall be in strict conformance with the current "ACI Manual of Concrete Practice". No aluminum shall be placed in the concrete. Chamfer all exposed edges of the concrete 3/4". Slabs on earth shall be 4 inches thick with 6x6-W2.1xW2.1 welded wire reinforcement unless otherwise noted. Walls shall be 4 inches thick with 6x6-W2.1xW2.1 welded wire reinforcement. Drive slabs shall be 6 inches thick with 6x6-W4.0xW4.0 welded wire reinforcement. Furnish in flat sheets. Construction joints or construction joints in slabs on grade shall be spaced to divide the slab into panels not to exceed 225 square feet. The longer dimension of each panel shall not exceed the shorter dimension by more than 20 percent. All saw-cut joints in slab on grade floors shall use an early entry dry-cutting slaying system. Do not install saw-cut joints in elevated slabs on metal deck or elevated structures on formwork. Provide concrete bases for the mechanical equipment. All shall be 4 inches thick on top of floor slabs on grade with 6x6-W2.1xW2.1 welded wire reinforcement, unless otherwise noted. No electrical conduit shall be cast in a structural concrete system or concrete slabs on metal deck without approval from the Architect/Engineer.

REINFORCING STEEL

All welded wire reinforcement (WWR) shall meet ASTM A1064. Lap splice all welded wire reinforcement the cross wire spacing plus 2 inches. Furnish all welded wire reinforcement in flat sheets. All reinforcing shall meet ASTM A615 – 60,000. Deformed Bar Anchors (DBA) shall meet ASTM A496 – 75,000. All weldable reinforcing bars shall meet ASTM A706 – 60,000. Use E80xx electrodes for the welding of all A706 reinforcing bars, or as required to comply with AWS D1.4. All reinforcing steel shall have adequate coverage as indicated in ACI 318 for the given exposure. Reinforcing shall be continuous and lapped a minimum of 24 inches or 36 bar diameters whichever is greater, unless otherwise noted. Reinforcing shall be detailed according to the ACI Detailing Manual and shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas. Provide corner lap bars to match in size and spacing of all wall, trench footing, and grade beam horizontal bars. Corner bars are not required in the wall footings, unless specifically indicated. For main reinforcing around openings in the structural members. Do not field cut bars unless the Architect's approval is obtained. Provide 2-#5, 4"-0" longer than opening dimension, on all sides of the openings in the slabs and walls. Provide 200 pounds of extra bars of various sizes to be used as directed. Include labor for placing same. Provide 3-inch slab booster with continuous bottom plate at 4'-0" maximum centers for positioning all grade beam bottom bars and all footing bottom bars. Provide bar supports for all bars in slabs or mat footing cast on grade at a maximum of 4'-0" in each direction. Provide the support and bracing for reinforcing steel in field and on forms at a maximum of 4'-0" in each direction. Mark each bundle of the reinforcing with weatherproof tags. Welding of all reinforcing bars shall conform to AWS D1.4, "Structural Welding Code – Reinforcing Steel".

CONCRETE MASONRY

All concrete masonry units (CMU) shall be made of lightweight concrete aggregate unless noted otherwise, and shall meet ASTM C90. All 8" and 8" concrete masonry units shall have a minimum compressive strength of 1900 psi on the net area at 28-days and a net area compressive strength of masonry of 1500 psi. All 12" concrete masonry units shall have a minimum compressive strength of 2800 psi on the net area at 28-days and a net area compressive strength of masonry of 2000 psi. All mortar for use in concrete masonry shall conform to ASTM C 270, Type S. Provide vertical CMU reinforcement as indicated on the plan and sections. Bars for typical lift shall be shop cut for 4'-0" lifts plus a minimum 48 bar diameters lap. Field cut bars for top lift and non-typical lengths. All vertical reinforcing bars in CMU walls shall be placed and held in the center of the block cores, unless noted otherwise. Provide dowels from the foundation to match in size and spacing of all vertical CMU reinforcement. Provide standard hook at the end of all vertical masonry reinforcing into top beam end at roof bearing elevation. Provide at least one vertical bar at each end, side of control joints, jamba, corner, and intersection of all load bearing and exterior CMU walls. Size of rebar is to match the size of typical vertical reinforcing. If the wall does not contain any vertical CMU reinforcing, provide 1-#4 vertical at the described locations. Grout all reinforcing vertical block cores and bond beams with minimum 2500 psi grout. Grout shall conform to ASTM C 476. Provide 2-#4's continuous for all end beams unless otherwise indicated on the plan. Furnish in shop lengths and field cut. See the plans (including architectural), sections and notes for the locations. Provide one corner reinforcing bar per wall section. Provide horizontal joint reinforcing in all concrete masonry unit walls at 16 inches o.c. unless noted otherwise. Provide vertical masonry reinforcing galvanized bar positioners at 48 inches o.c. at each vertical reinforcing bar. Provide bar positioners to match the wall thickness, bar size, and bar position as required. Locate bars in the center of the block cores, unless noted otherwise. Provide masonry control joints at a maximum spacing of 24'-0" o.c. unless noted or shown otherwise. Coordinate all control joint locations with the Architect/Engineer. Control joints shall not occur below or directly adjacent to the joist, beam or lintel bearing points. Locate a minimum of 24 inches from jamba of wall openings. Fill all beam and joist bearing points and solid with grout. Provide temporary forms on the inside or exposed face of the wall flush with the face of the wall to retain grout placement. All lintels shall be built into the masonry walls over wall openings as the wall is being constructed. Closely coordinate the location and elevation of all openings in the masonry walls with the architectural, mechanical, and electrical drawings.

STRUCTURAL STEEL

Structural steel shall meet the latest AISC "Specification for Structural Steel Buildings." The typical steel framing connection details shown on the drawings represent the general type of connection detail expected to be implemented in the connection design, unless specifically approved otherwise. The steel fabricator and detailer shall be responsible for the final detailing of all steel framing connections which are not explicitly detailed on the contract documents based on the defined beam or bracing end reactions or member forces. The submitted shop drawings shall clearly show and note all shop and field bolting and welding requirements and the final connection details. All member loads, reactions, and moments defined on the drawings are ASD, service-load level, unless noted otherwise. Steel framing members shall only be spliced at locations shown on the design drawings or as shown on and approved on the shop drawings. Structural steel shop drawings shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas. All steel plates and shapes shall meet ASTM A36 except wide flange sections shall meet ASTM A992, Fy = 50 ksi. Structural steel tubing shall meet ASTM A500, Grade B, Fy = 46 ksi and Grade C, Fy = 50 ksi and structural piping shall meet ASTM A53, Grade B, Fy = 35 ksi. All beam and column girders shall be made of ASTM A312S, Grade A325 (Type 1) bolts and accessories. Connections shall be designed as snug-tightened (Type ST) bolted connections, unless noted otherwise. Provide tension control bolts meeting ASTM F1325, Grade F1852 (Type 1) at all slip critical (Type SC) and all at pretensioned (Type PT) bolted connections. All headed studs and shear connectors shall meet ASTM A108 and A29, Grade 1015-1020, and AWS D1.1, Type B. Do not shop point the top surface of beam top flanges to receive field installed headed stud shear connectors. All unheaded anchor rods shall be ASTM F1554, Grade 36 or ASTM F1554, Grade 55 (Supplement S1). All threaded steel rods shall meet ASTM A307, Grade B; ASTM F1554, Grade 36; or an approved equal or greater strength threaded rod. All threaded rods cast in concrete or post-installed in concrete or masonry shall be thoroughly cleaned of all surface oils. Provide 3/8" plate washers above all oversized holes in steel members (hole diameters greater than 1/16" larger than anchor diameter) in the column base plates. Provide standard hole size in plate washers. All anchor rods set in concrete shall be furnished with double nuts and shall be set with a template. Provide standard size holes for all bolts and anchors in steel framing members unless noted otherwise (1/16" larger hole than diameter of bolt or anchor). Where oversized holes are required or desired in steel framing members to accommodate the drill bit size on post-installed anchors, provide a 3/16" thick plate washer at each post-installed anchor location with a standard hole or 1/16" larger hole than the anchor diameter at the center of the plate washer. After the anchors and the steel framing members have been installed, add the plate washer on each anchor prior to installing the nut and tightening the anchor. After the anchor has been properly tightened, weld the plate washer to the steel framing member with a 3/16" fillet weld along each vertical edge of the plate washer. All beams bearing on masonry directly supporting the roof framing systems shall be positively anchored to the bearing walls with anchor rods (or an equivalent method) to resist uplift forces. Provide an angle frame to support the metal deck at all openings greater than 9' x 9'. Provide an angle frame between the installations of all mechanical roof top equipment and around the deck openings below the mechanical equipment. Where the equipment perimeter curb is perpendicular to the roof joists, provide L4x4x3/8 between the joists and below the curb. Where the equipment perimeter curb is parallel to the roof joists, provide L4x4x3/8 between the joists at a maximum spacing of 6'-0" o.c. and provide L4x4x3/8 between the angles and below the curb. The contractor shall coordinate all mechanical unit sizes and locations with the mechanical contractor. Provide a curb that is directly connected to the angle framing to resist all imposed loading on the roof top equipment. Where applicable, connections through the metal roof deck to the perimeter angle beneath the curb shall use shims for solid bearing at the metal deck flutes. The contractor shall be responsible for coordination with the mechanical contractor for the connection of the roof top equipment curbs to the angle framing. Welding shall conform to AWS D1.1, "Structural Welding Code – Steel". All welds shall be AWS prequalified welded joints. No unauthorized welds will be accepted. E70xx electrodes shall be used for all welding, unless noted otherwise. E70xx electrodes for the welding of all ASTM A706-60,000 weldable reinforcing bars or as required to comply with AWS D1.4. Steel lintels shall be provided over all the openings in the masonry walls, unless otherwise detailed.

See Lintel Schedule for lintel requirements indicated on the drawings. Provide lintels as indicated below for openings where not indicated in the Lintel Schedule:

Table with columns for span and lintel size/type (e.g., Span: 0'-0" to 1'-3" Lintel: 1/4" plate x width of wall).

Not all masonry openings that require lintels are shown on the structural drawings. Refer to the architectural and mechanical drawings for the size and location of additional openings in the masonry walls. Galvanize steel lintels in exterior masonry walls. Provide solid grouted masonry units below bearing of all lintels, beams, or etc. Grout block cores with 2500 psi grout. All field completed welding and bolted connections shall be reviewed and accepted by the field inspection and testing agency prior to the installation of subsequent work. Galvanized structural steel shall conform to ASTM A123 for members and ASTM A153 for connection elements. Hot-dip galvanize steel framing members as specified where specifically noted on the drawings. Provide venting relief holes as required, but locate on the bottom side or at similar non-visible locations where the members are exposed on the exterior of the building. Show or note the locations of venting holes on the shop drawing submittal.

3 METAL ROOF DECK (ENTRY CORRIDOR)

Metal Deck shall be 3'-18 gage deck. Roof deck shall be galvanized and shall conform to ASTM A924 and/or A653 with a minimum G60 coating. Metal roof deck is designed to resist diaphragm forces, and shall be connected using size 12 screw fasteners to all supports as follows: End laps shall be fastened through both pieces; at each side lap and all flutes between (36/7 pattern). End laps shall use size 10 screw fasteners at 12" o.c. between supports. Deck shall be attached to all perimeter boundary members parallel with deck flutes with size 12 screws at 6 inches o.c., where such members occur. Deck shall be attached to all perimeter boundary members perpendicular with deck flutes with size 12 screws at each flute, where such members occur. Steel frames at roof openings shall be considered perimeter boundary members. Partial deck sheets used to complete deck layout shall be attached to the supporting members at all flutes.

COMPOSITE METAL DECK (ROOM A102)

Metal deck shall be 1-1/2", 20 gage composite deck inverted (Type VLR), continuous over three or more spans. Deck shall be galvanized and shall conform to ASTM A924 and/or A653 with a minimum G60 coating. Attach the floor deck to supports with nominal 5/8" gusset weld at each edge (B) plus a maximum spacing of 12 inches between. Only qualified welders who shall make practice welds prior to the actual job welding shall do welding. Practice welds shall be made on deck to check welding rod, amperage, and burn-off rate to produce satisfactory fusion. Welds shall be in accordance with the current standards of the American Welding Society. Provide size 10 screw side lap fasteners at a maximum spacing of 24 inches o.c. between supports.

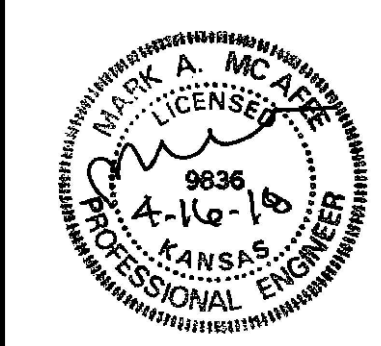
POST-INSTALLED ANCHORS

All post-installed anchors and post-installed reinforcing bars shall be installed per the manufacturer's installation instructions. All holes shall be drilled per the manufacturer's instructions with the required bit type and size to provide the minimum embedment length specified in the Structural drawings. All holes shall be cleaned prior to installing the anchor or reinforcing bar per the manufacturer's instructions with the brush and compressed air method or with the manufacturer's proprietary drill bit and dust extraction system. The installation of all post-installed anchors and post-installed reinforcing bars shall be performed by personnel trained and certified by the American Concrete Institute/Concrete Reinforcing Steel Institute or trained by the post-installed anchor and/or adhesive manufacturer for the type of anchor or reinforcing bar being post-installed.

Post-installed anchor types shall be as follows:

- Type I: Expansion anchors installed into concrete shall be Hilti Kwik Bolt TZ, Simpson Strong-Tie Strong-Bolt 2, or DeWalt Power-Stud+ SD2 wedge anchors or an approved equal.
Type II: Expansion anchors installed into solid grouted masonry shall be Hilti Kwik Bolt 3 or DeWalt Power-Stud+ SD1 wedge anchors or an approved equal.
Type III: Adhesive anchors or reinforcing bars installed into concrete shall use Hilti HIT-HY 200 Adhesive Anchoring System or an approved equal.
Type IV: Adhesive anchors or reinforcing bars installed into solid grouted masonry, hollow block masonry, or brick masonry shall use Hilti HIT-HY 70 Adhesive Anchoring System or an approved equal. Adhesive anchors installed into hollow block or brick masonry shall use screen tubes.
Type V: Screw anchors installed into concrete shall be Hilti Kwik HUS-EZ, Simpson Strong-Tie Titen HD, or DeWalt Screw Bolt+ screw anchors or an approved equal.
Type VI: Screw anchors installed into solid grouted masonry shall be Hilti Kwik HUS-EZ, Simpson Strong-Tie Titen HD, or DeWalt Screw Bolt+ screw anchors or an approved equal.

A piston plug injection procedure approved by the adhesive manufacturer shall be used for the injection of adhesives into all holes greater than 10 inches in depth. A piston plug injection procedure approved by the adhesive manufacturer shall be used for the injection of adhesive into all vertical overhead holes. The vertical overhead anchors shall be supported by wedges or other suitable means approved by the adhesive manufacturer until the adhesive is fully cured. Hilti HIT-RE 500 V3, DeWalt AC2008, and DeWalt Pure 110+ are approved equal adhesive anchoring systems for adhesive anchors or reinforcing bars installed into concrete. All post-installed expansion anchors must be tightened to the anchor manufacturer's recommended installation torque. The installation of all post-installed anchors and post-installed reinforcing bars shall be reviewed and accepted by the field testing and inspection agency.



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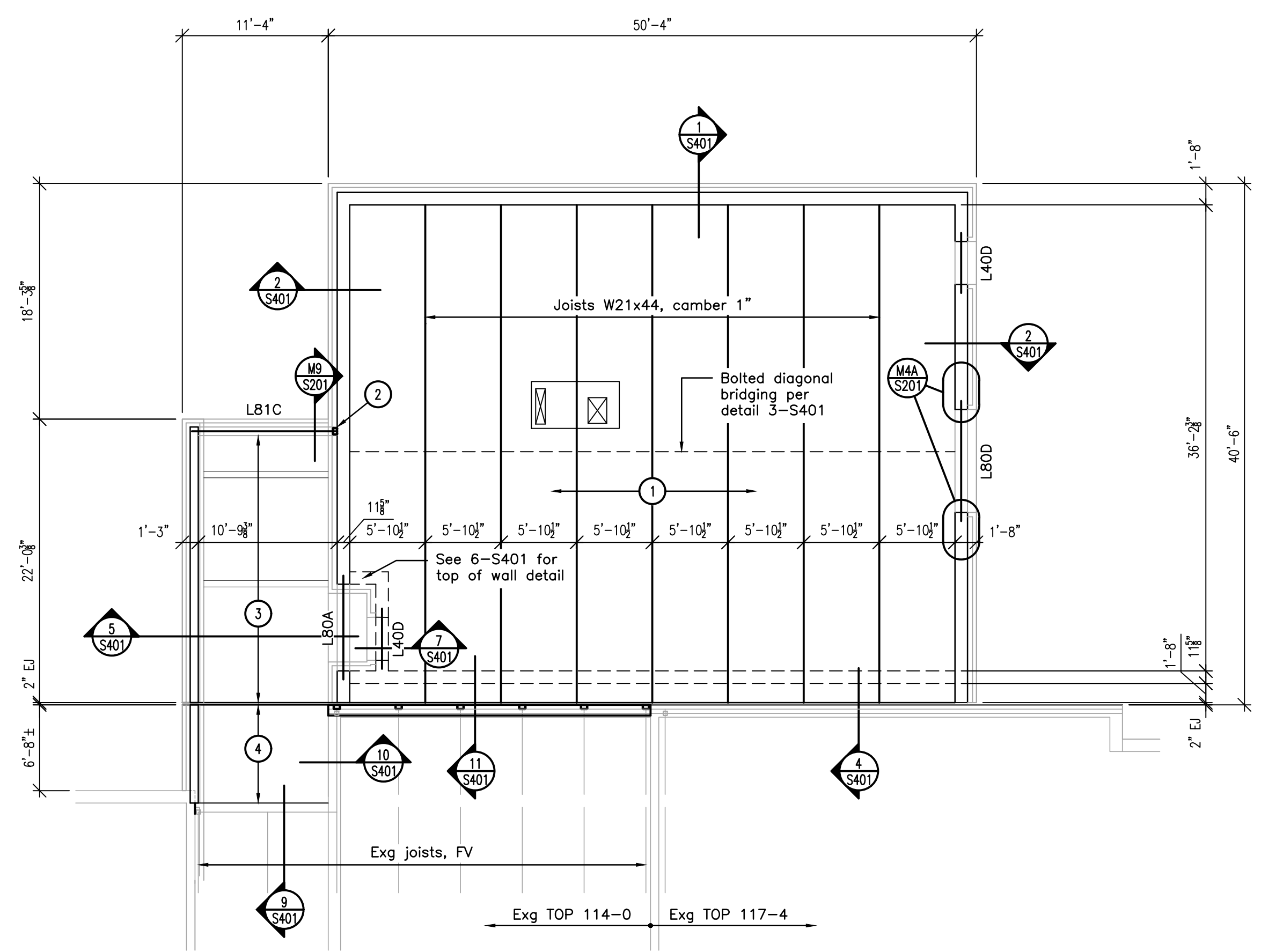
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SAFETY AND SECURITY UPGRADES TO
**WILEY ELEMENTARY, HOLCOMB ELEMENTARY
HOLCOMB MIDDLE SCHOOL**
HOLCOMB, KANSAS

SHEET TITLE:
ROOF FRAMING PLANS
FOUNDATION PLANS
DATE:
4/17/2018

S101

FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS. NOTIFY THE ARCHITECT FOR DIRECTION IF THE ACTUAL EXISTING CONDITIONS DIFFER FROM THE EXISTING CONDITIONS SHOWN OR IMPLIED ON THE DRAWINGS.



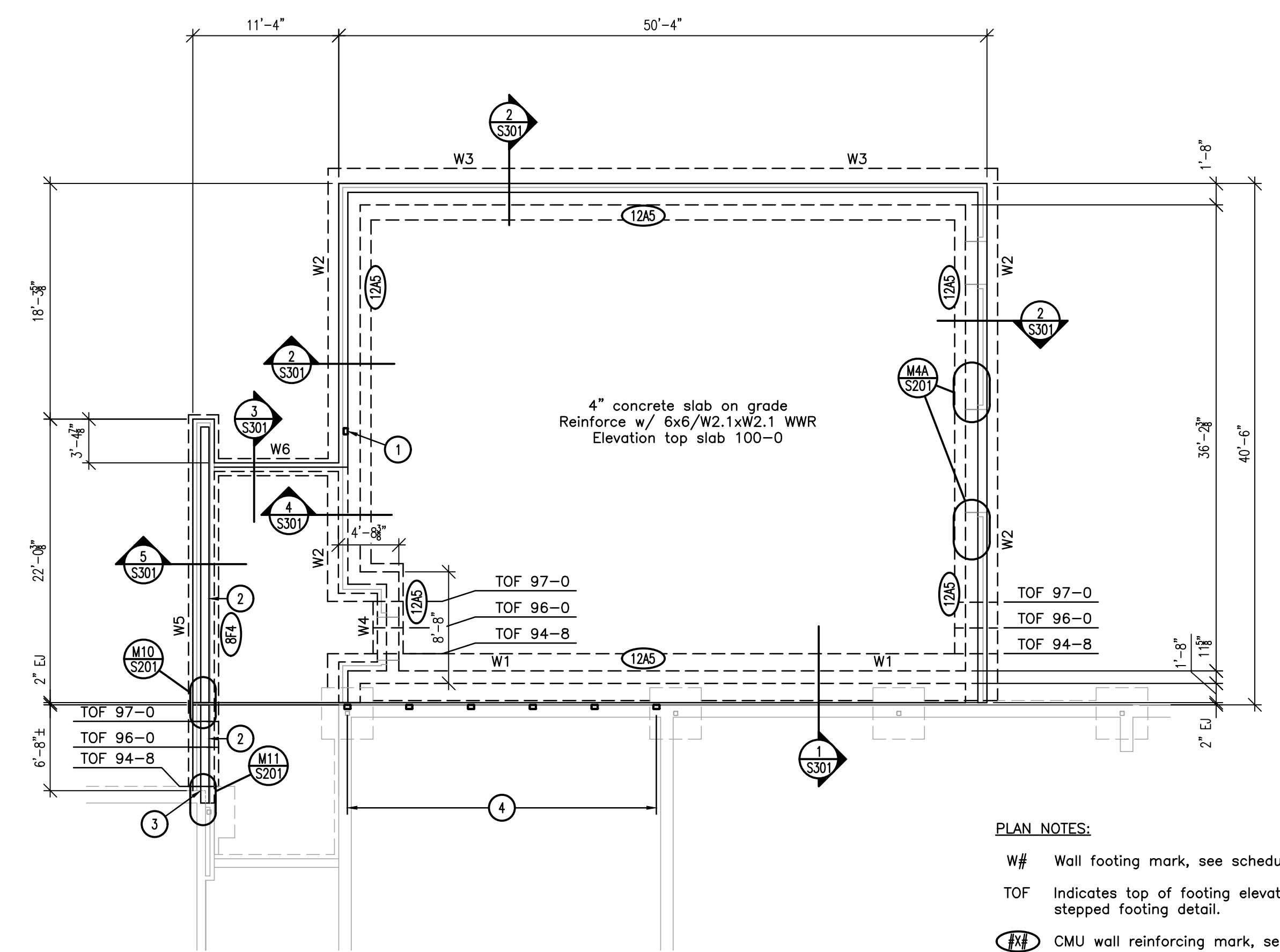
A ROOF FRAMING PLAN - HOLCOMB ELEMENTARY
1/8" = 1'-0"

KEYED PLAN MARKS / NOTES:

- L##X Lintel mark, see schedule, sheet S201.
- FV Field Verify existing conditions
- TOP Top of existing parapet
- 1 6" concrete slab (4 1/2" slab thickness above deck) on 1 1/2" composite metal roof deck (reversed), see General Structural Notes. See composite slab and beam detail 3-S401 for additional information and requirements. Top of slab elevation 114-6 top of steel elevation 114-0 U.O.N.
- 2 Provide CMU control joint above lintel at junction of 8" CMU and 12" shelter walls.
- 3 Provide 3", 18ga metal roof deck over corridor, see General Structural Notes. Elevation deck bearing 111-4, see 5-S401.
- 4 Slope 3", 18ga metal roof deck to match existing roof slope, see 10-S401.

MISCELLANEOUS NOTES:

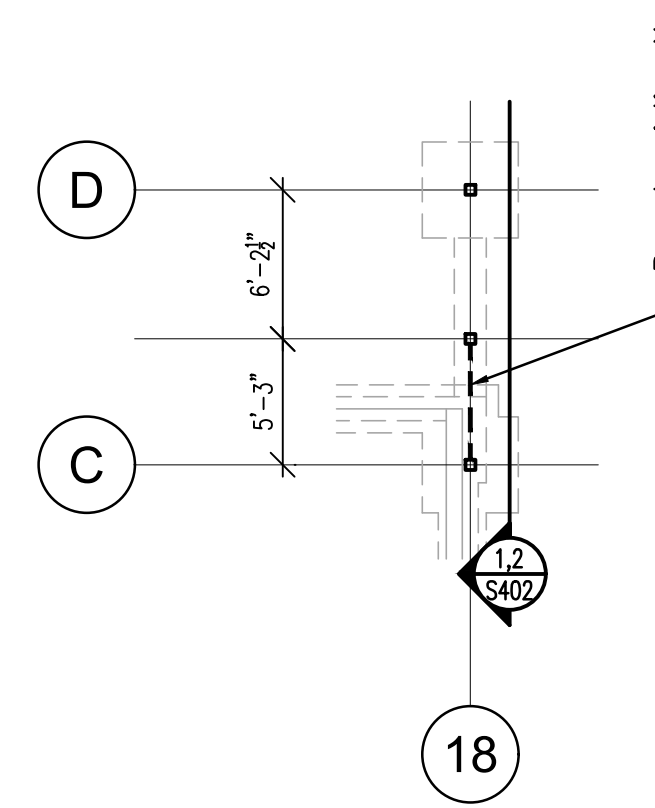
- Mechanical penetration of safe room wall or roof. See Section 12-S401 at all roof penetrations through concrete slab on metal deck. Not all safe room wall or roof penetrations are shown on the Structural Drawings. See the Architectural and Mechanical Drawings for safe room wall and roof penetration size, location, elevation, and protection requirements. Coordinate final opening size, location, and elevation of all safe room wall and roof penetrations during the shop drawing submittal process, typical.
- Provide mechanical duct openings in concrete masonry safe room walls per Detail 13-S401, typical unless noted otherwise. Openings shall be built into the masonry walls as the walls are being constructed.
- Tie 12" concrete masonry walls to 8" concrete masonry walls by providing #4 corner bars at each bond beam in 8" and 12" concrete masonry walls, U.O.N. Do not tie non shelter walls to shelter walls.
- See General Structural Notes on Sheet S001 and the project specifications for additional notes and information.
- Plan dimensions on the exterior of the building are to exterior face of masonry veneer, exterior face of metal stud or column grid/framing member centerline, unless noted otherwise. Plan dimensions on the interior of the building are to face of concrete masonry wall or column grid centerline, unless noted otherwise. See the Architectural Drawings for dimensional location of walls where not dimensioned on the Structural Drawings.
- See Sheet S401 for typical framing details.
- See S201 for typical masonry wall reinforcing and grouting details
- See the Architectural Drawings for demolition plans and extent of existing construction to be removed.
- Not all new openings in the existing concrete masonry walls are shown on the Structural Drawings. See the Architectural Drawings and the Lintel Schedule on Sheet S201 for additional information.



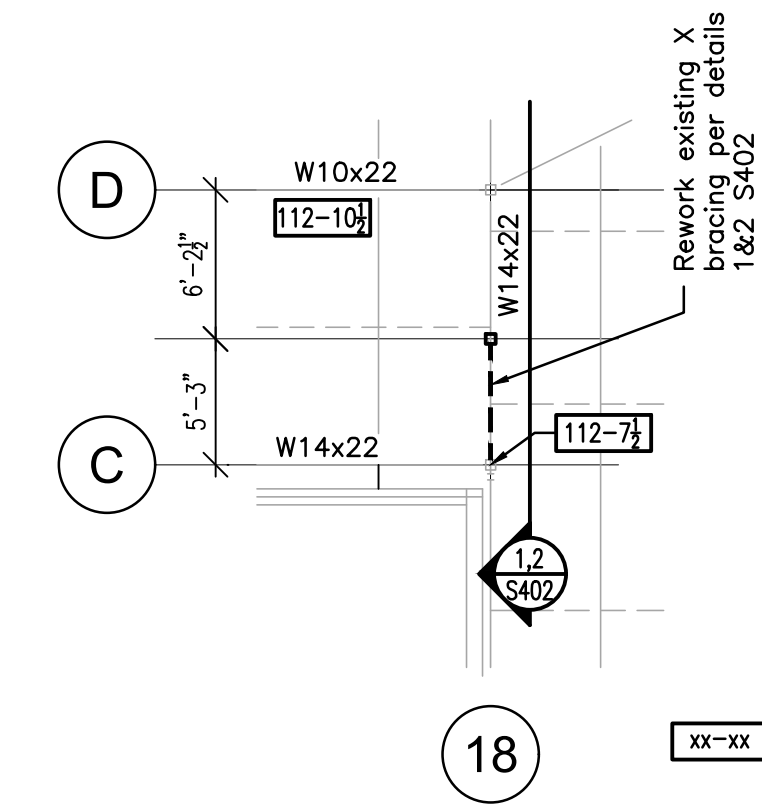
B FOUNDATION PLAN - HOLCOMB ELEMENTARY
1/8" = 1'-0"

PLAN NOTES:

- W# Wall footing mark, see schedule, sheet S301
- TOF Indicates top of footing elevation, see G1-S301 for stepped footing detail.
- CMU wall reinforcing mark, see schedule sheet on S201
- 1 Lintel post, see detail M12-S201
- 2 Provide horizontal bond beams @ 104-0, 108-0, 110-8 & top of wall (TOW)
- 3 Provide #4x3-0 dowels to match wall horizontals drilled and anchored minimum 6" into existing foundation walls as type III adhesive anchors, see general notes.
- 4 HSS parapet braces per 11-S401. Provide baseplate per M12-S201 at base of wall, FV.



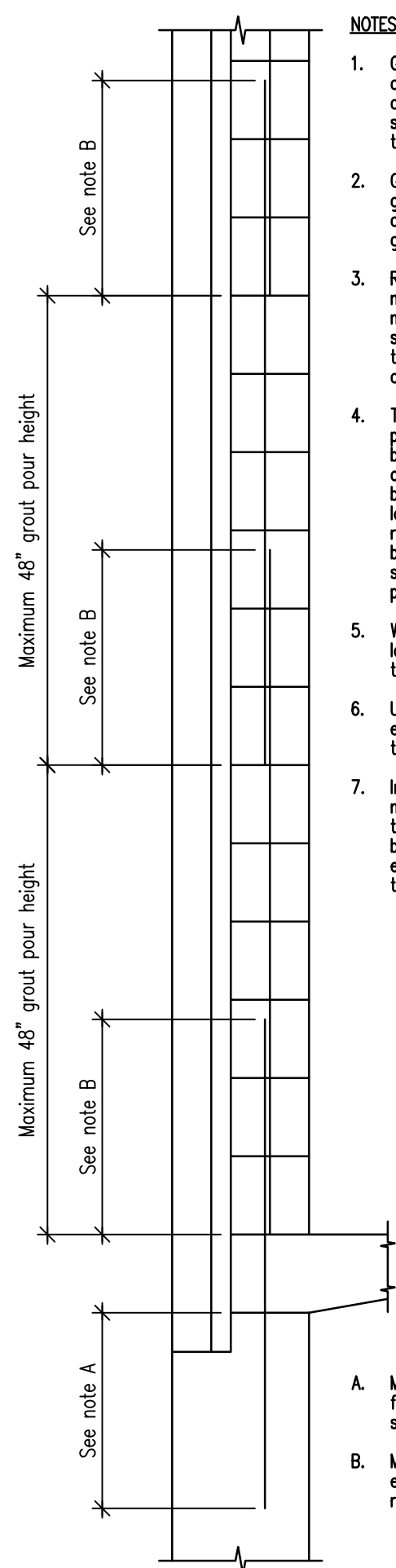
PARTIAL FOUNDATION PLAN



PARTIAL ROOF FRAMING PLAN

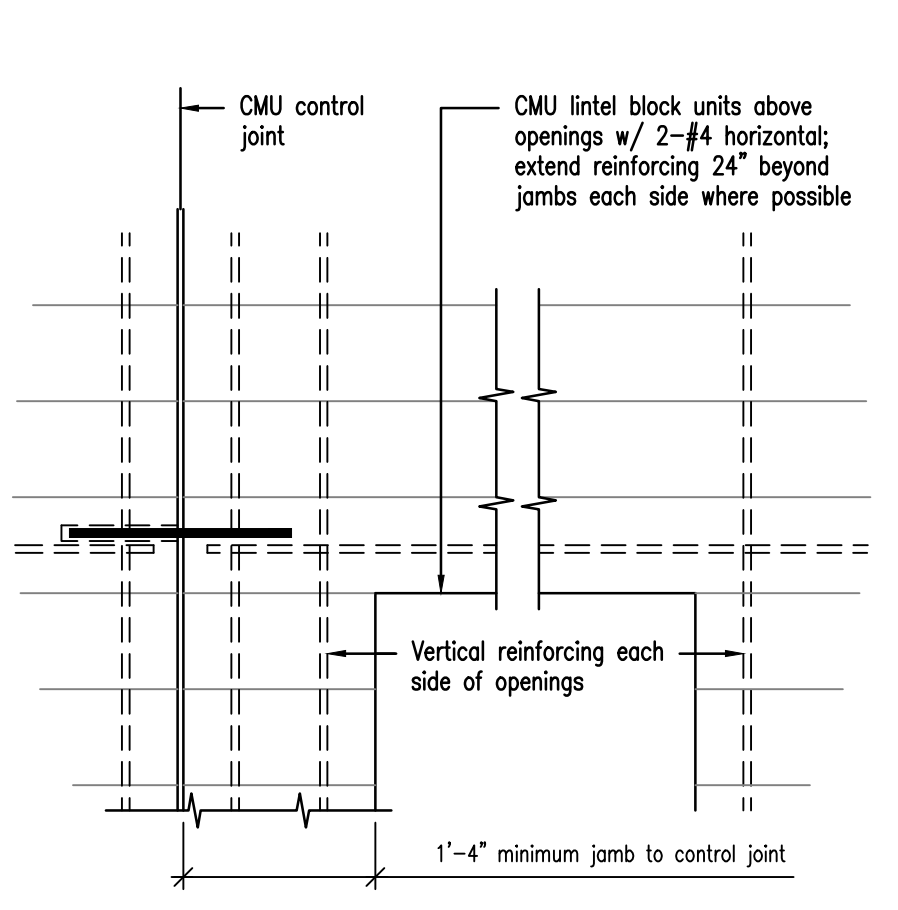
xx-xx Joist bearing elevation. Top of beams parallel w/ existing joists match top of joist elevation. FV existing conditions.

C WILEY ELEMENTARY
See architectural plans for location in Wiley Elementary School
1/8" = 1'-0"

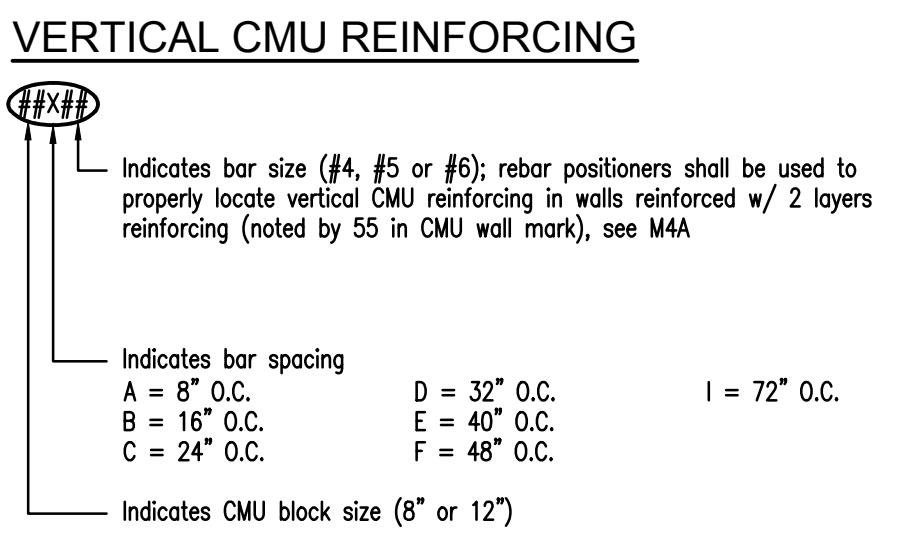


- NOTES**
- Grout solid all noted block cores and all cores with vertical reinforcing bars. Grout shall attain a minimum 28 day compressive strength of 2500 psi and shall have a 8 in. to 10 in. slump range.
 - Grout shall be placed in maximum 24 in. grout lift heights and each lift height shall be consolidated by mechanical vibration during grout placement.
 - Reconsolidate each grout lift height 5 to 15 minutes after initial grout placement by mechanical vibration. Initial grout lift height shall be consolidated and reconsolidated prior to placement of additional grout lift to complete the grout pour height.
 - The grout horizontal construction joint at each pour height shall stop a minimum of 1 1/2" below a block mortar joint, except at the top of the wall or at the block coursing below bond beams, beam bearing, or other similar locations. Adjust grout level after reconsolidation at the top of walls, below bond beams, beam bearing, or other similar locations as required to obtain the proper top of grout elevation.
 - Where vertical bar positioners are specified, locate the bar positioner one course below the top of each grout pour.
 - Use a small headed vibrator and only vibrate each grouted core for a few seconds during the consolidation and reconsolidation process.
 - In all block cores to be grouted, mortar shall not project more than 1/2" from the face of the block into the block core. Clean out the block cores of all mortar droppings or excessive mortar projections prior to starting the grouting process.
- A. Masonry dowel embedment length into foundation, see CMU reinforcing lap splices table on this sheet.
 B. Masonry vertical bar lap splice length at each grout pour height, see CMU reinforcing lap splices table on this sheet.

M1 TYPICAL CMU WALL REINFORCING DETAIL
NO SCALE



M2 BOND BEAM LINTEL
NO SCALE



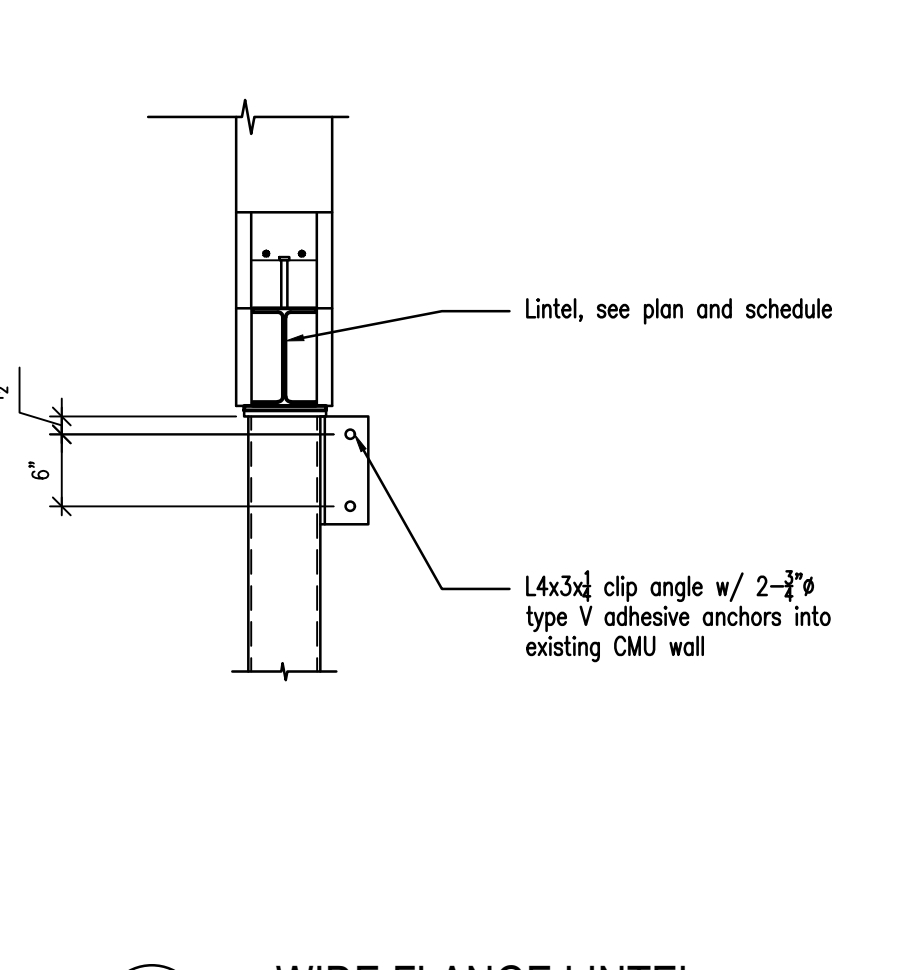
Indicates bar size (#4, #5 or #6); rebar positioners shall be used to properly locate vertical CMU reinforcing in walls reinforced w/ 2 layers reinforcing (noted by 55 in CMU wall mark), see M4A

Indicates bar spacing
 A = 8" O.C. D = 32" O.C.
 B = 16" O.C. E = 40" O.C.
 C = 24" O.C. F = 48" O.C.
 I = 72" O.C.

Indicates CMU block size (8" or 12")

CMU REINFORCING LAP SPLICES

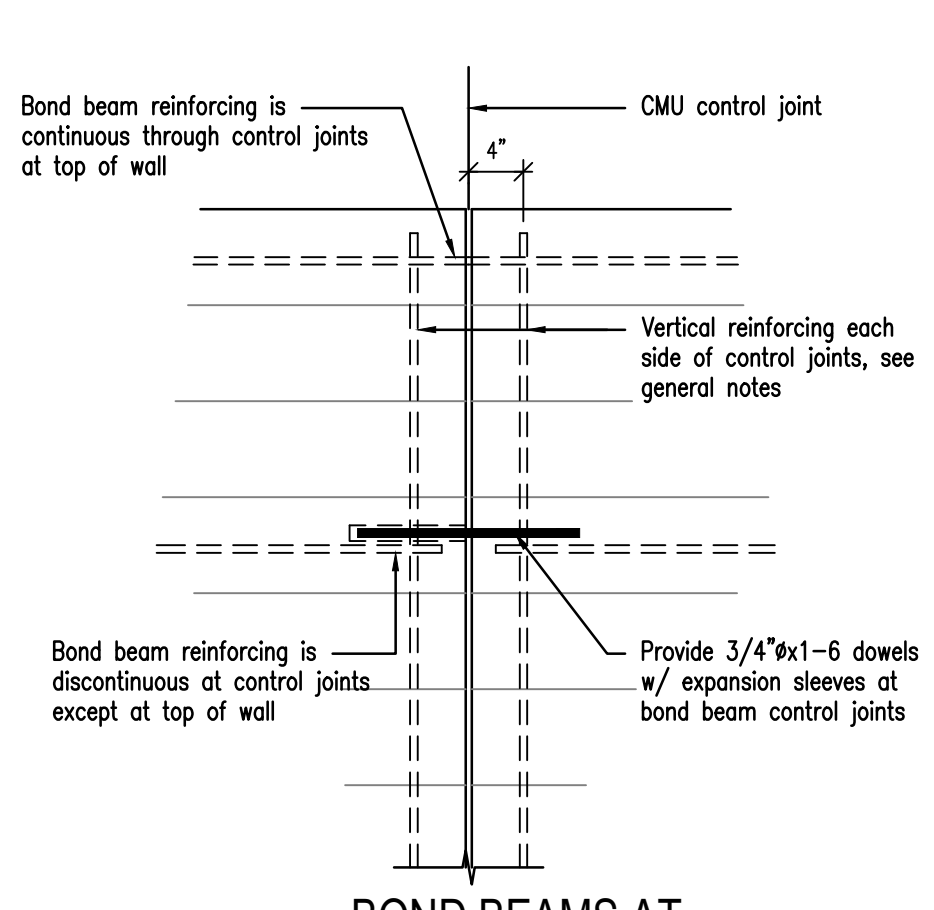
Bar size	Embedment into foundation	LAP (40 bar dia min)
#4	2'-0"	2'-1"
#5	2'-0"	2'-8"
#6	2'-0"	3'-3" (52 bar dia)



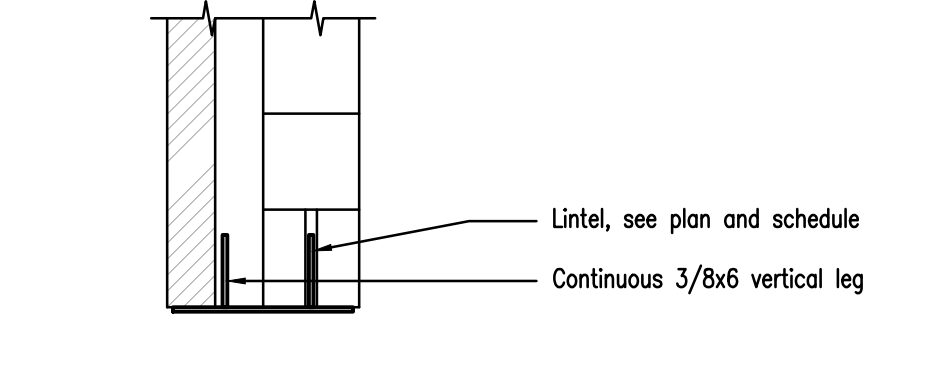
M9A WIDE FLANGE LINTEL
3/4" = 1'-0"



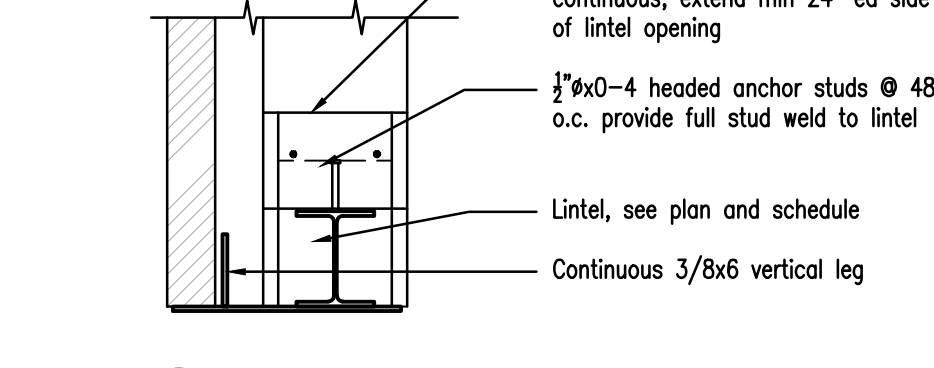
M9B WIDE FLANGE LINTEL
3/4" = 1'-0"



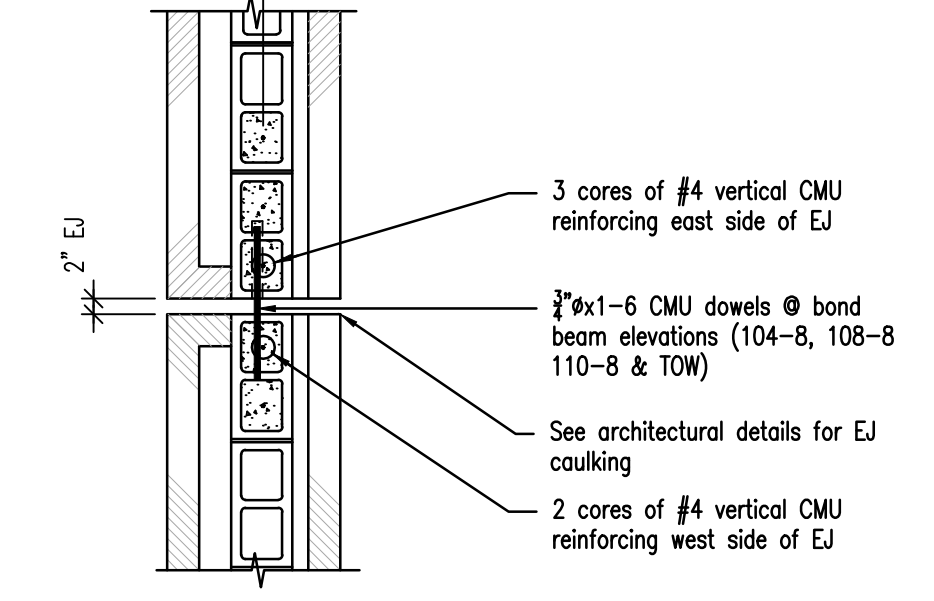
M3 BOND BEAMS AT CONTROL JOINTS
NO SCALE



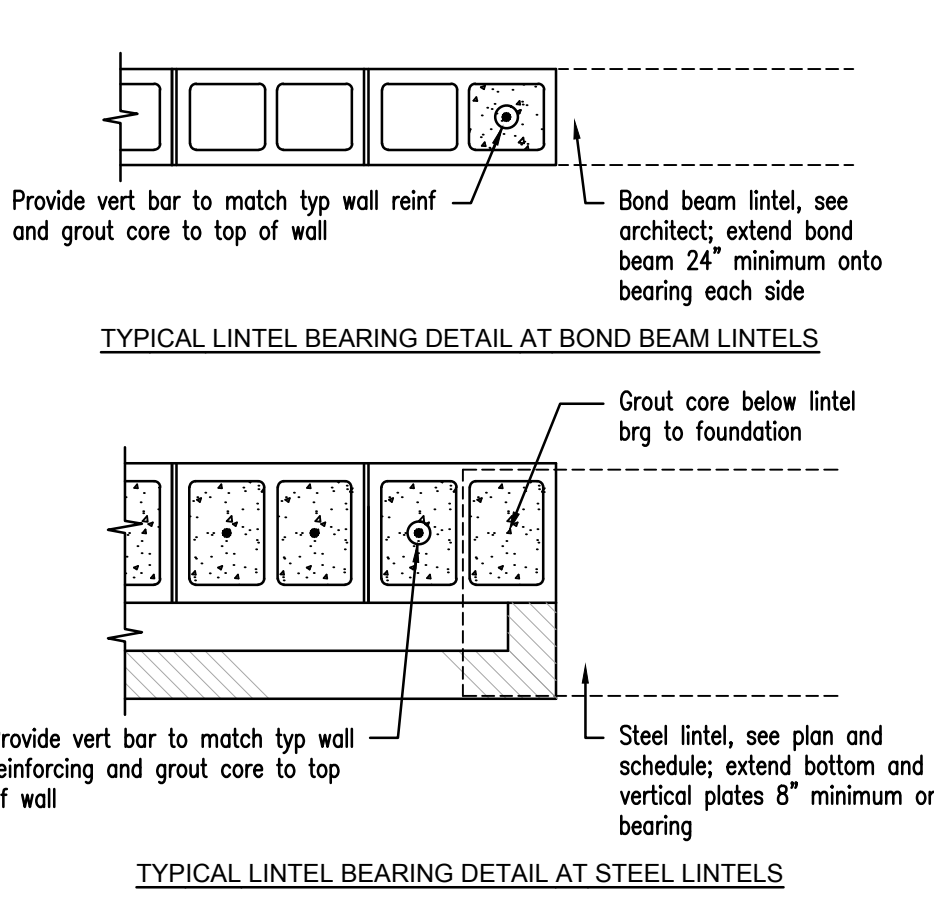
M6A STEEL PLATE LINTEL
3/4" = 1'-0"



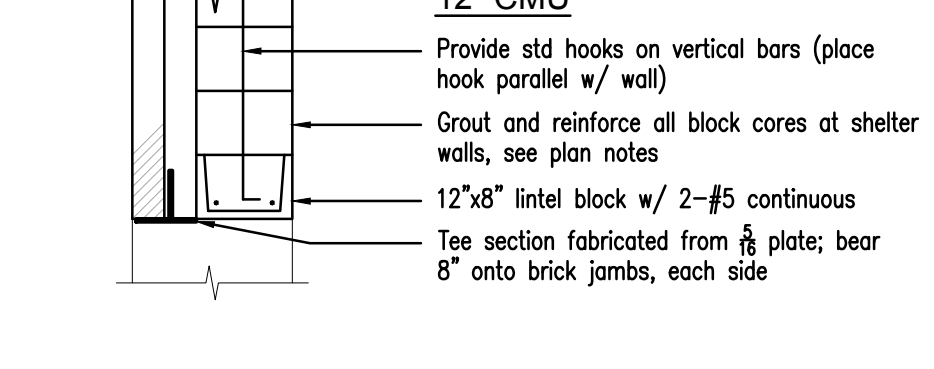
M6B WIDE FLANGE LINTEL
3/4" = 1'-0"



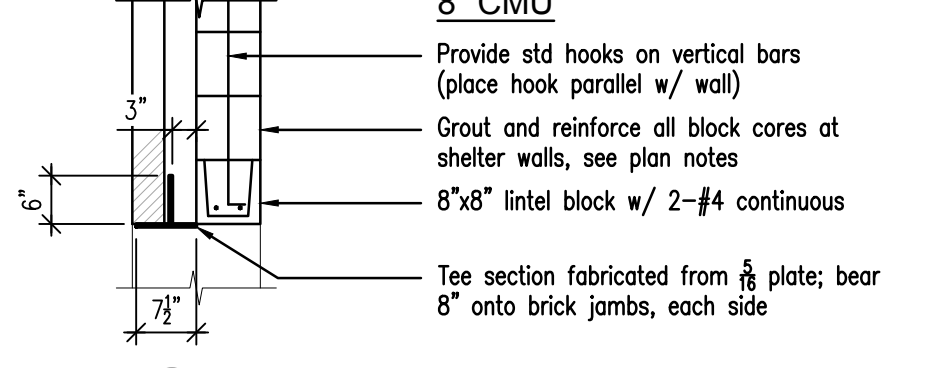
M10 DETAIL
1/2" = 1'-0"



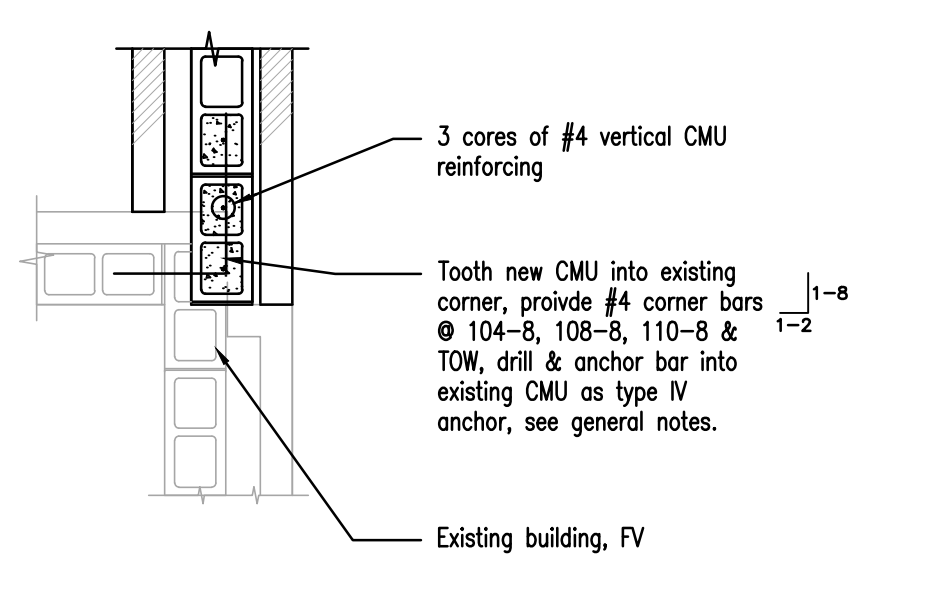
M4 TYPICAL LINTEL BEARING
NO SCALE



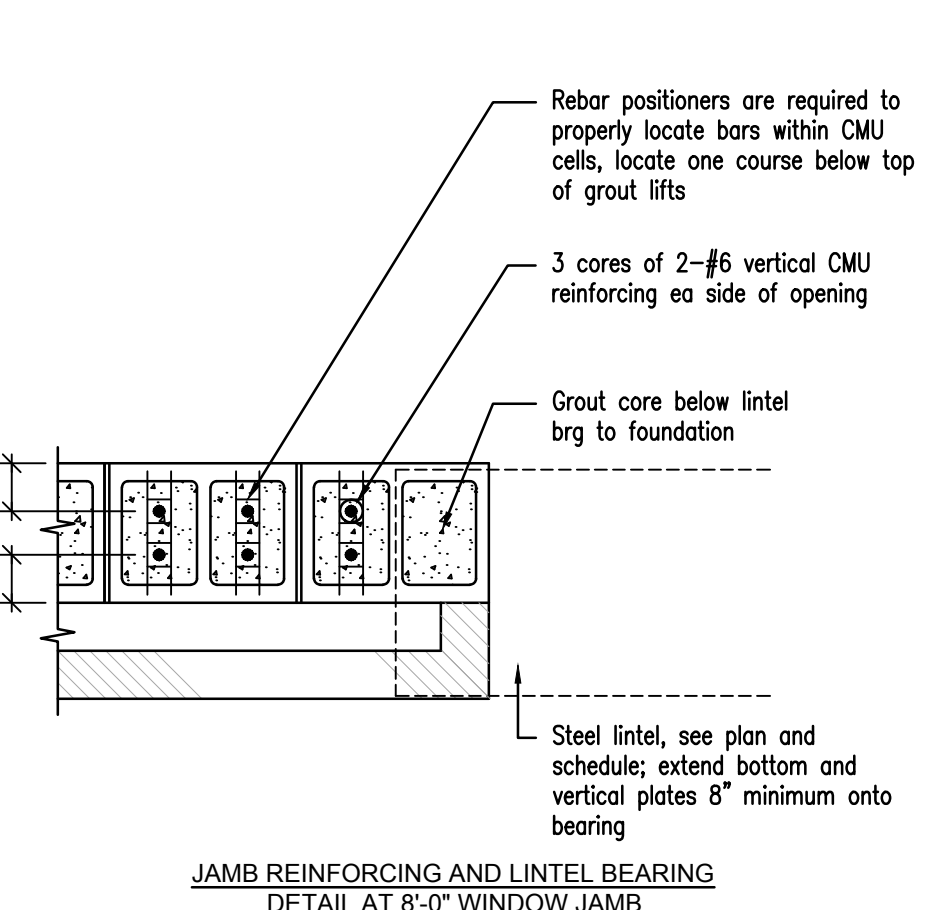
M4A TYPICAL LINTEL BEARING
NO SCALE



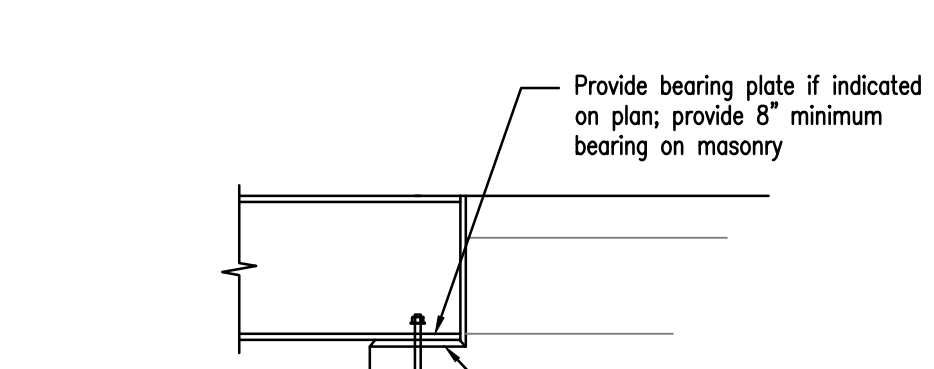
M6C BOND BEAM LINTEL
1/2" = 1'-0"



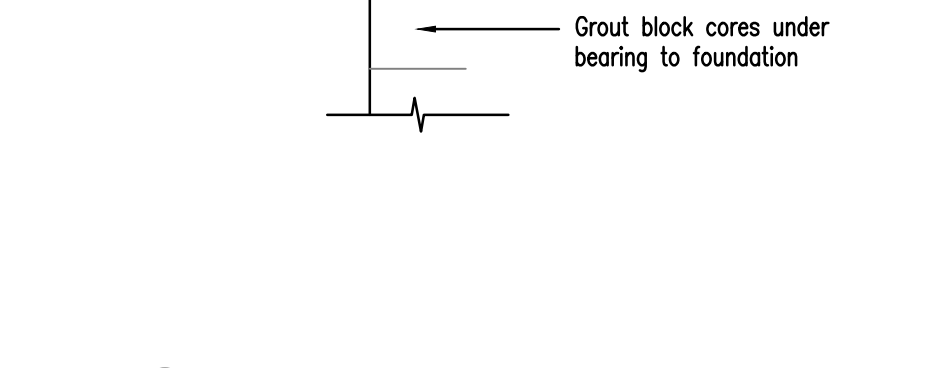
M6D BOND BEAM LINTEL
1/2" = 1'-0"



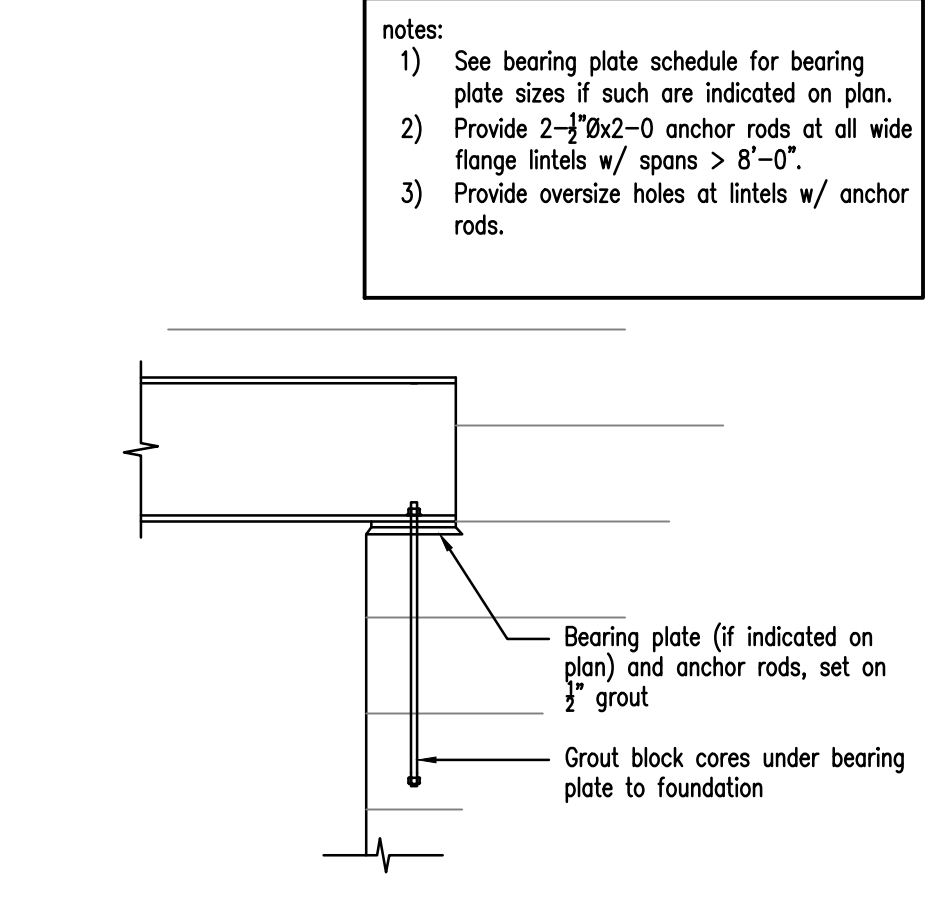
M4A TYPICAL LINTEL BEARING
NO SCALE



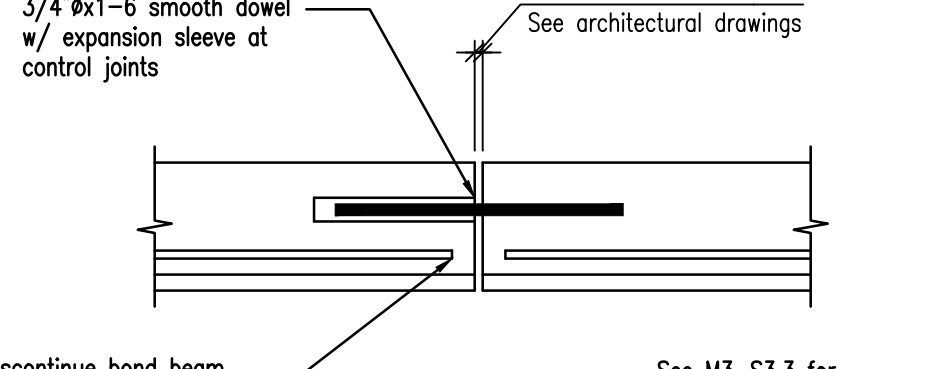
M5 TYPICAL LINTEL BEARING
NO SCALE



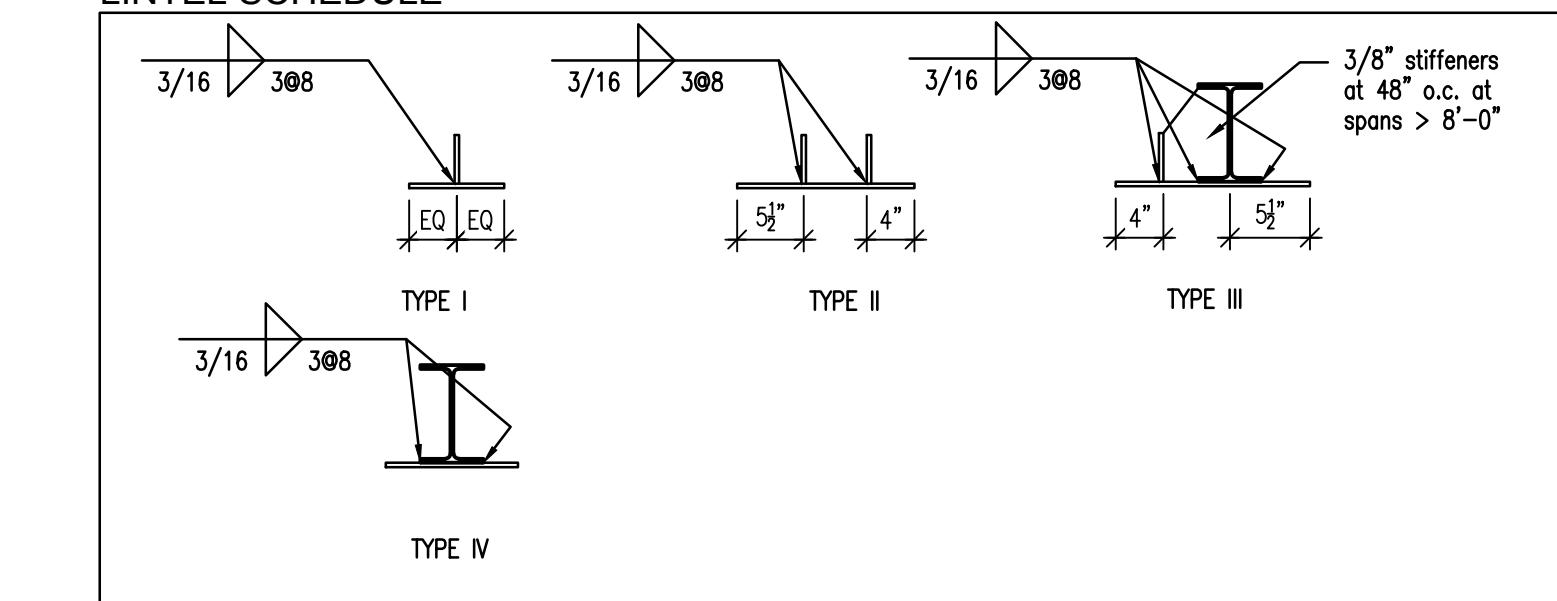
M7 TYPICAL BEAM BEARING
NO SCALE



M8 ELEVATION AT BOND BEAMS
NO SCALE

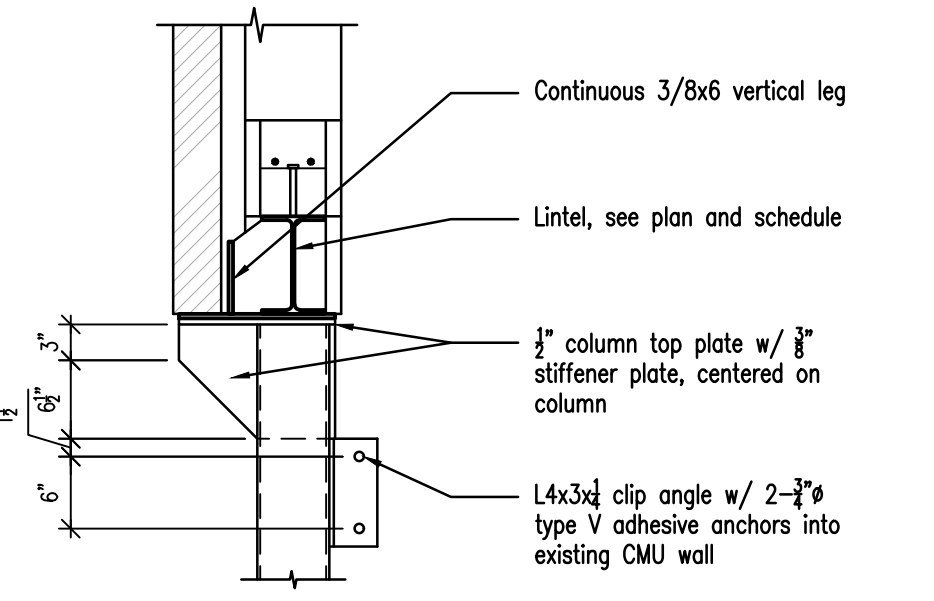


M8 PLAN VIEW TYPICAL MASONRY CONTROL JOINT DETAILS
NO SCALE

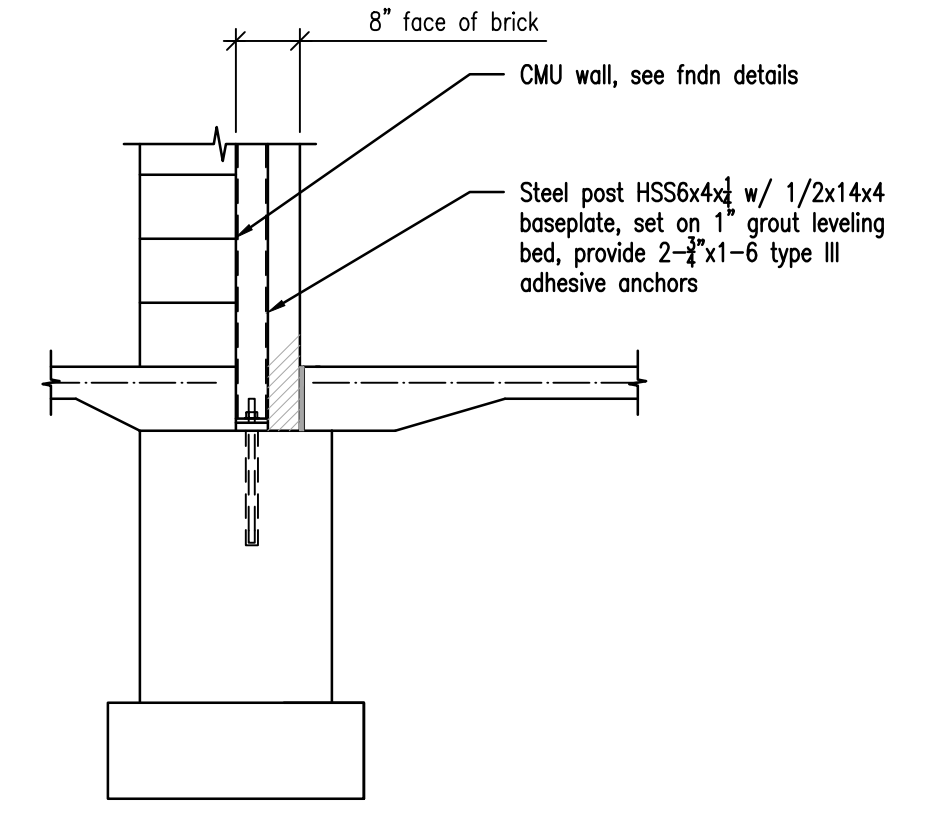


MARK	MEMBERS	TYPE	REMARKS
L40A	Vert PL 3/8x4, Bott PL 5/16x11	I	
L40D	Vert PL's (2) 3/8x4, Bott PL 5/16x19	II	
L80A	WBX24 W/ PL5/16x11	IV	
L80D	WBX24 W/ PL5/16x19 & VERT 3/8x4	III	
L81A	WBX18 W/ PL5/16x7	IV	
L81C	WBX18 W/ PL5/16x13 & VERT PL 3/8x4	III	

See typical lintel details, sheet S201.
 Not all lintels or lintel types may be used.
 Provide a minimum of 8" bearing on concrete masonry at each end. Grout cores solid below bearing.
 At locations where lintels bear perpendicular to an 8" wall, provide 6" bearing.



M9A WIDE FLANGE LINTEL
3/4" = 1'-0"



M12 SECTION
1/2" = 1'-0"



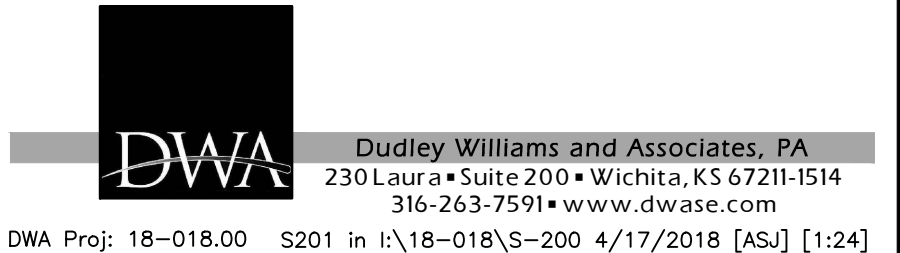
2017-21



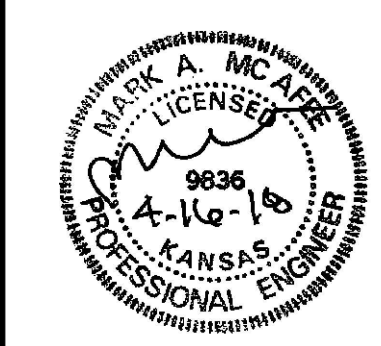
SAFETY AND SECURITY UPGRADES TO
**WILEY ELEMENTARY, HOLCOMB ELEMENTARY
 HOLCOMB MIDDLE SCHOOL**
 HOLCOMB, KANSAS

SHEET TITLE:
 CMU DETAILS
 DATE:
 4/17/2018

S201



DWA Proj: 18-018.00 S201 in I:\18-018\S-200 4/17/2018 [ASJ] [1:24]



2017-21



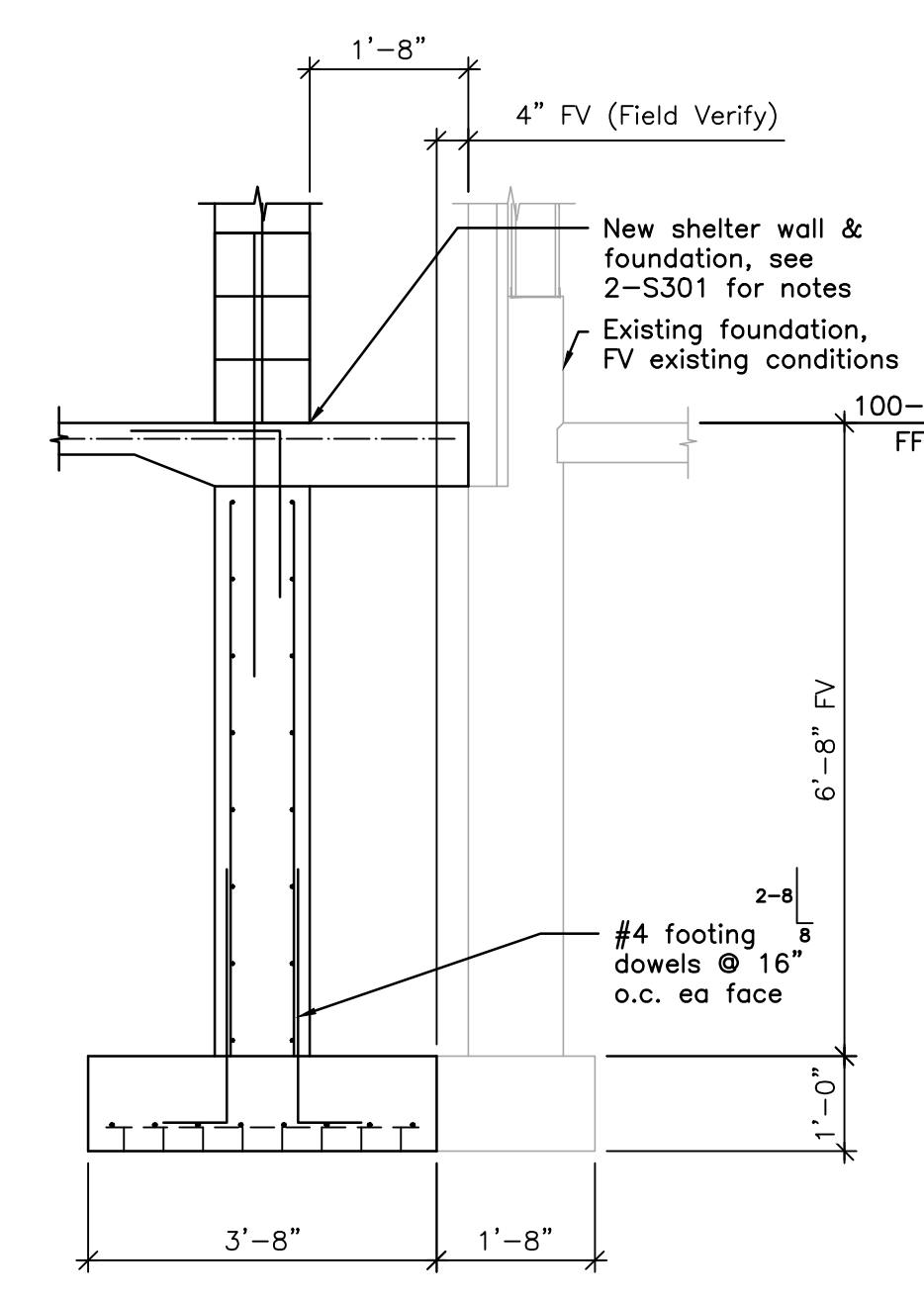
GIBSON, MANCINI, CARMICHAEL & NELSON
 ARCHITECTS - PLANNERS
 GARDEN CITY, KS 67846
 115 E. LAUREL
 (620) 276-3244
 www.gmcnciarchitects.com

SAFETY AND SECURITY UPGRADES TO
**WILEY ELEMENTARY, HOLCOMB ELEMENTARY
 HOLCOMB MIDDLE SCHOOL**
 HOLCOMB, KANSAS

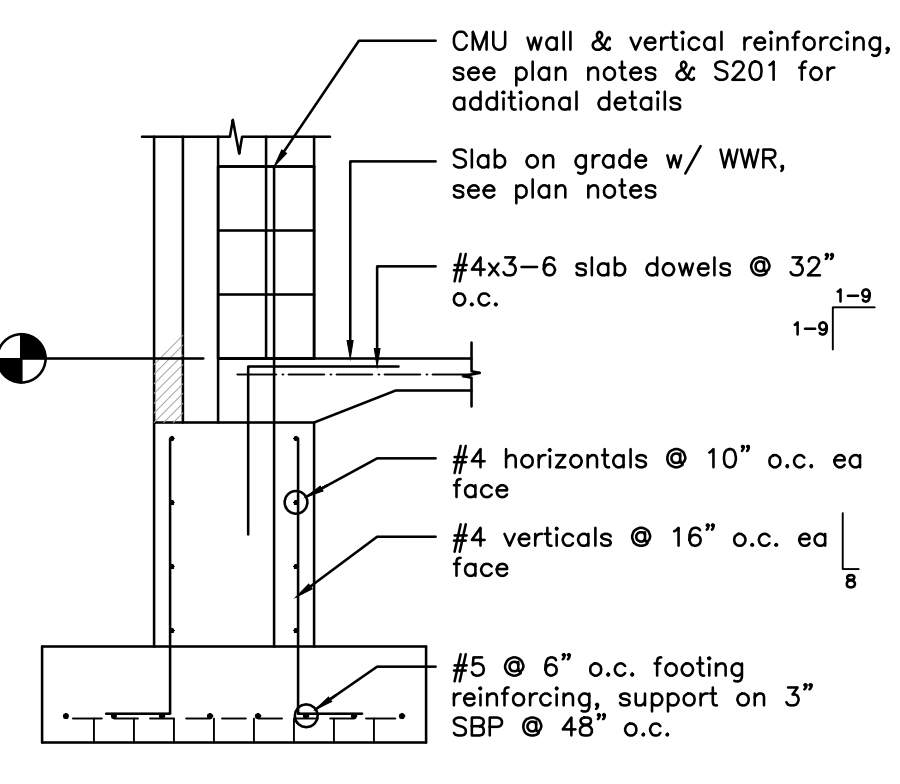
SHEET TITLE:
 FOUNDATION DETAILS
 DATE:
 4/17/2018

S301

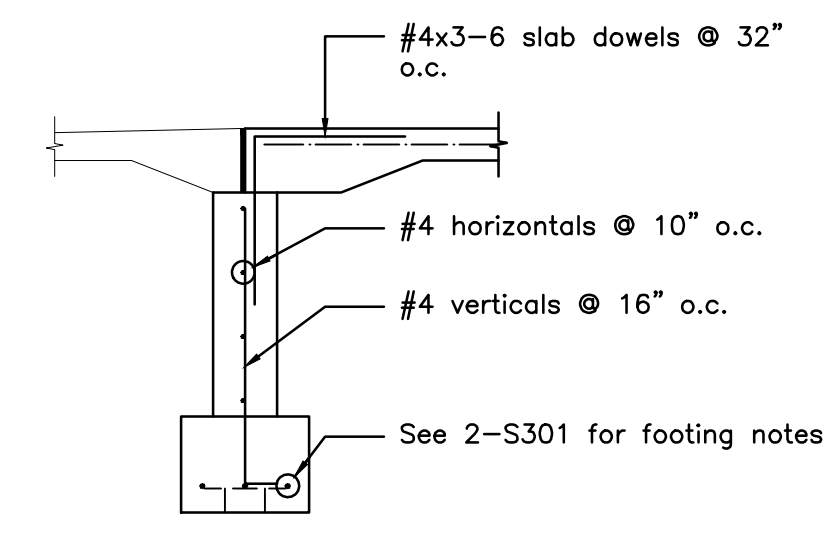
FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS. NOTIFY THE ARCHITECT FOR DIRECTION IF THE ACTUAL EXISTING CONDITIONS DIFFER FROM THE EXISTING CONDITIONS SHOWN OR IMPLIED ON THE DRAWINGS.



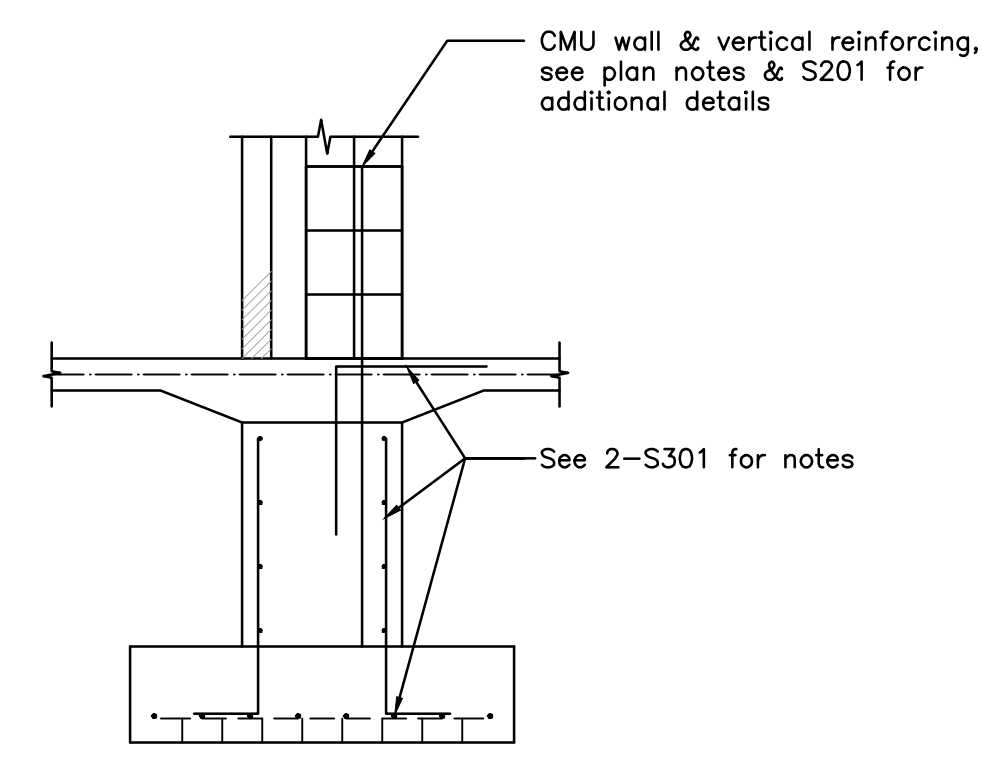
1 SECTION
 $\frac{1}{2}'' = 1'-0''$



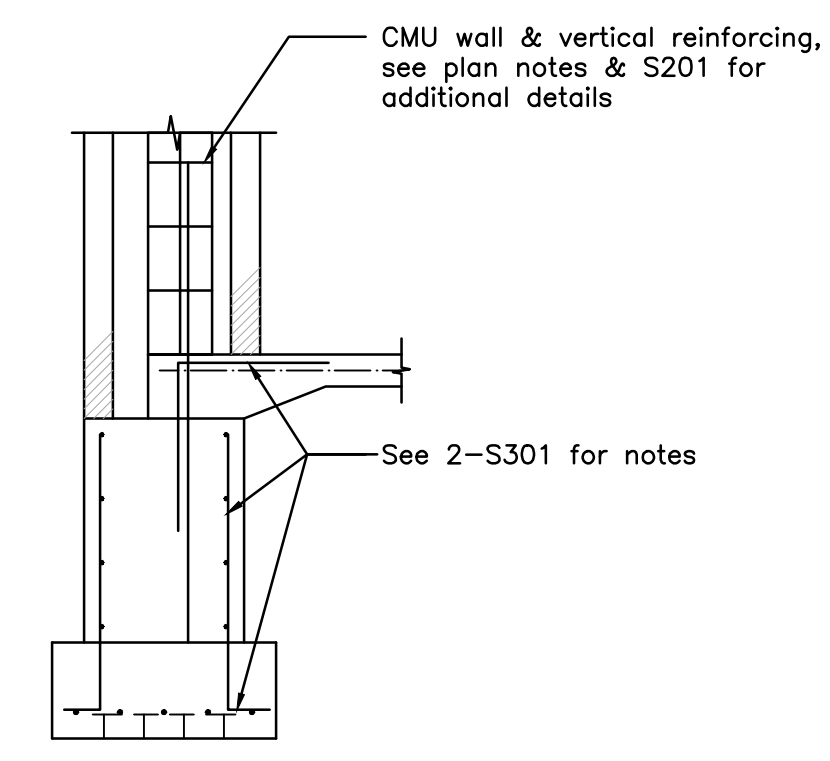
2 SECTION
 $\frac{1}{2}'' = 1'-0''$



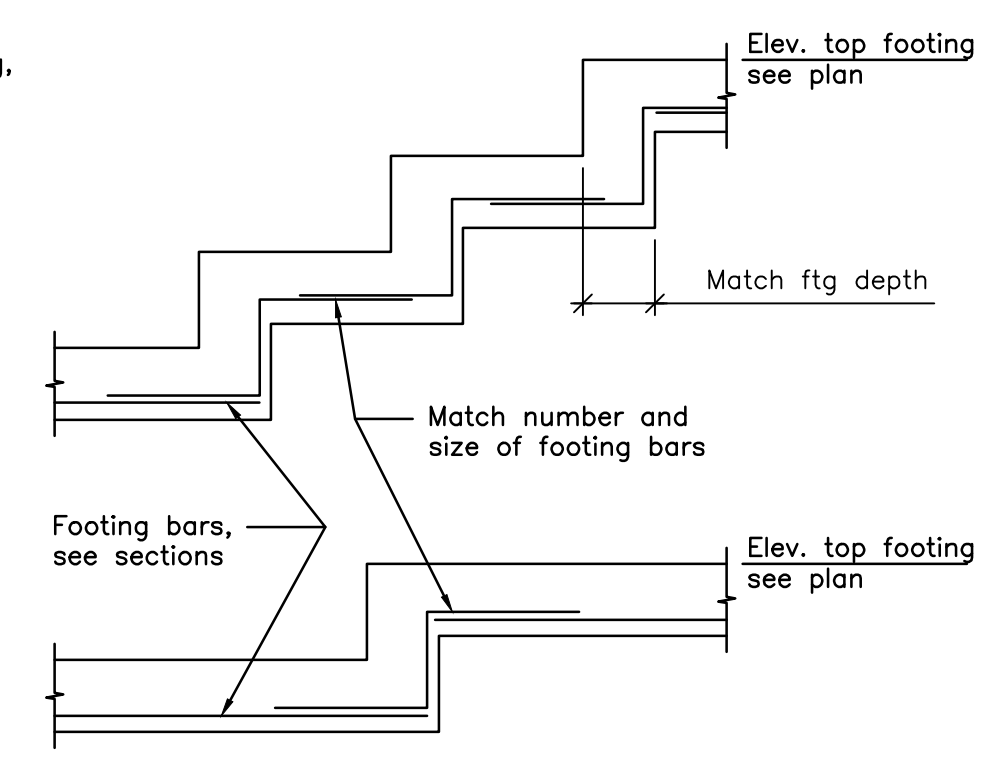
3 SECTION
 $\frac{1}{2}'' = 1'-0''$



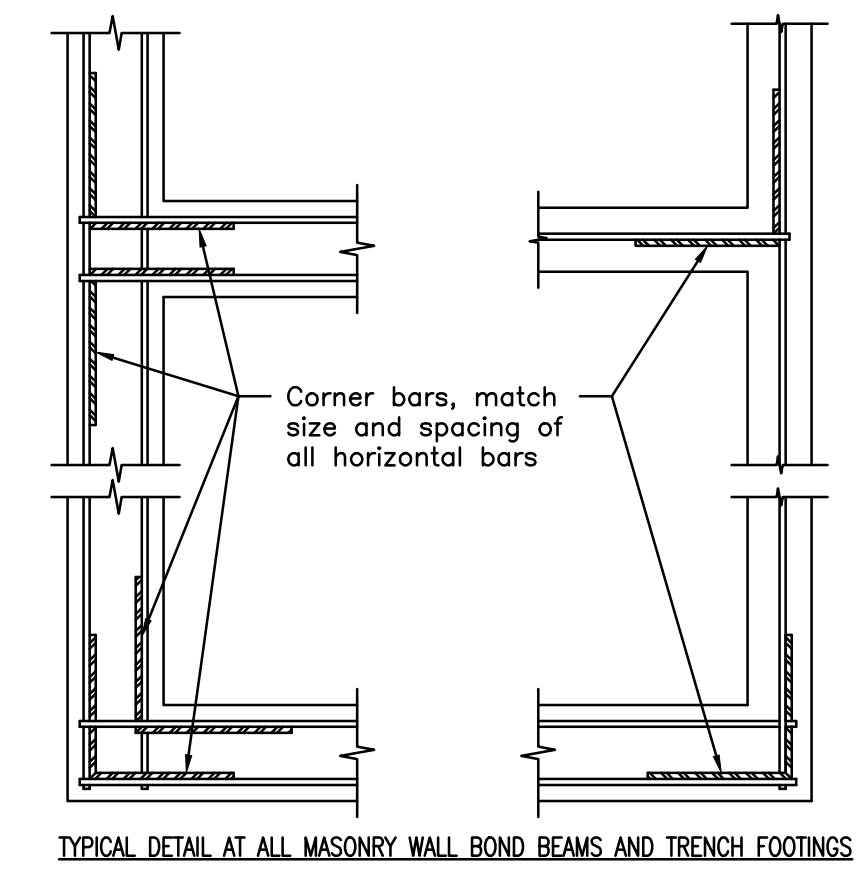
4 SECTION
 $\frac{1}{2}'' = 1'-0''$



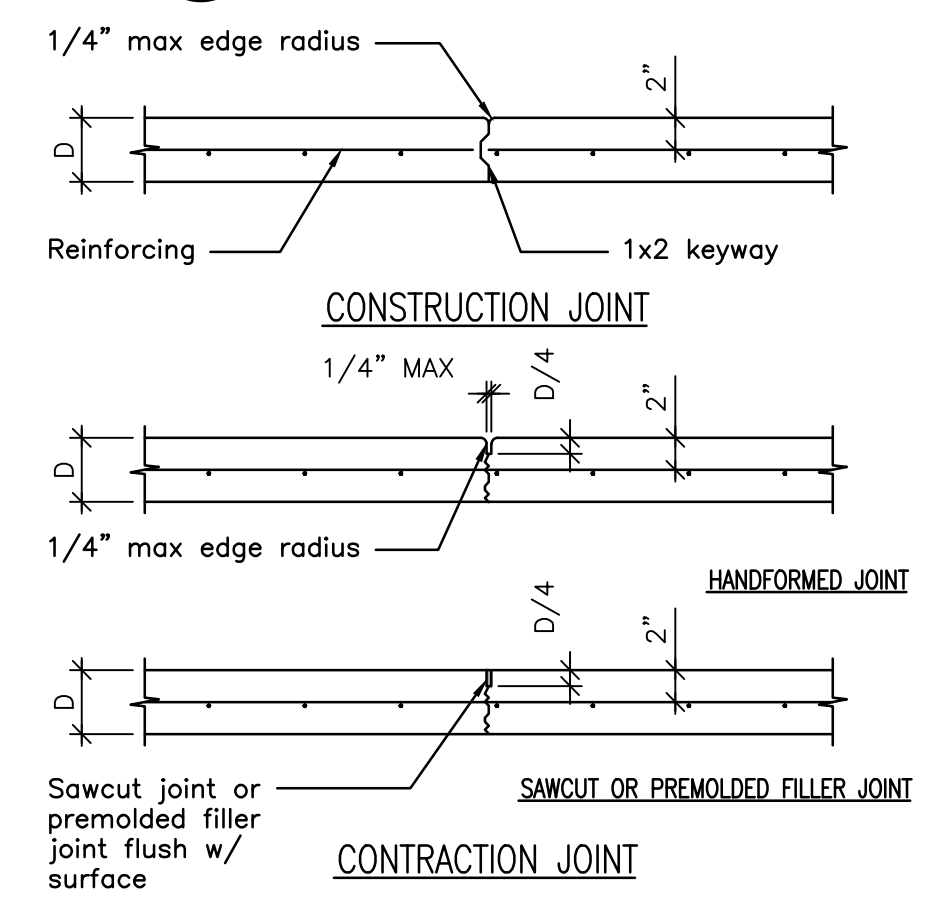
5 SECTION
 $\frac{1}{2}'' = 1'-0''$



G1 STEPPED FOOTING DETAIL
 $\frac{1}{2}'' = 1'-0''$



G2 CORNER BAR DETAIL
 NO SCALE



G3 TYPICAL SLAB ON GRADE JOINT DETAILS
 NO SCALE

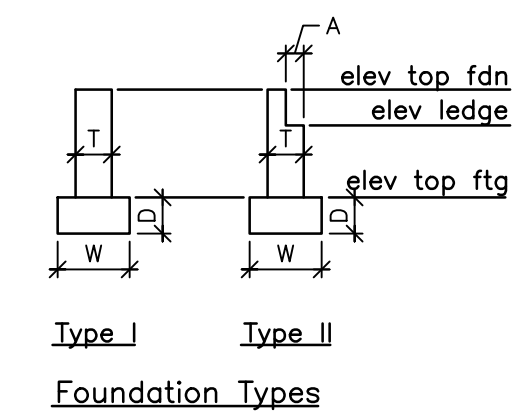
SUBGRADE PREPARATION AND EARTHWORK NOTES

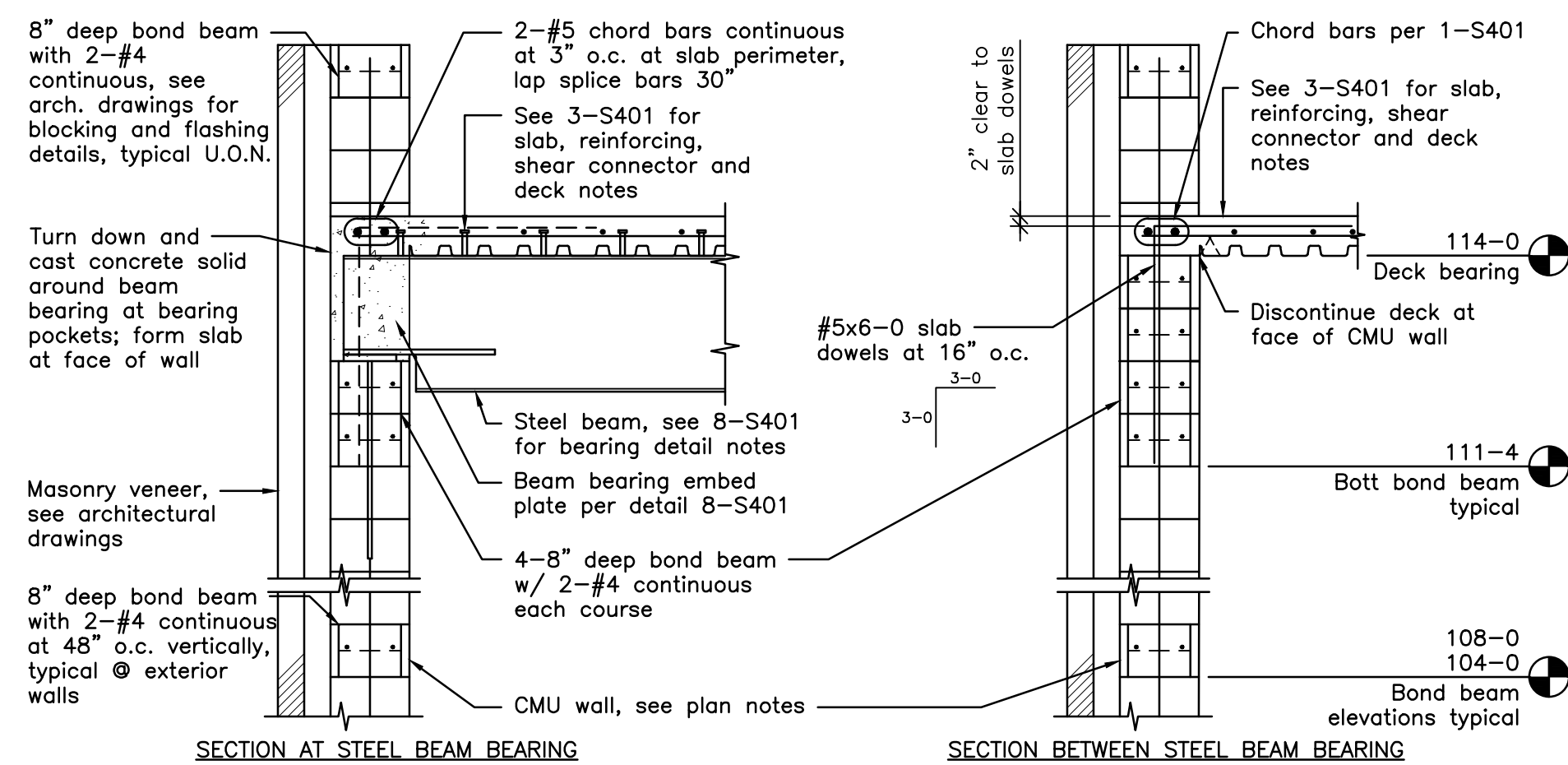
- Strip building area and paved areas to a minimum 6" depth to remove all surface vegetation, organic material, and other deleterious material.
- After the initial stripping operation and all unsatisfactory soils have been removed, proof roll the exposed subgrade in the presence of the geotechnical engineer to identify any areas of soft or unstable material. Remove any unsatisfactory material as directed by the geotechnical engineer.
- Scarify, moisture condition, and compact the top 8" of the exposed subgrade prior to starting the engineered fill placement operations.
- All earthwork shall be performed under the direction of the geotechnical engineer. The geotechnical engineer shall approve all soil materials, monitor all earthwork operations and perform the appropriate testing during the earthwork process.
- The clean granular drainage base material shall be a well-graded aggregate meeting the ASTM D448, no. 10 material.
- The low volume change (LVC) zone material shall be an approved soil, free of organic material and deleterious material. Cohesive soils shall have a liquid limit less than 40 and a plasticity index between 10 and 20. Silty gravel such as KDOT AB-3 would be an acceptable LVC material.
- The general engineered fill material shall be an approved soil, free of organic material and deleterious material with a liquid limit less than 50 and a plasticity index less than 25.
- All fill material shall be placed in maximum 9" thick loose lift and shall be compacted to at least 95% of standard proctor maximum dry density, ASTM D-698.
- Cohesive soils shall be placed at a moisture content between optimum and 3 percent above their optimum moisture content. Granular soils should be placed at a workable moisture content. The specified moisture contents shall be maintained in the soils until the floor slab has been placed.

TSG TYPICAL SUBGRADE DETAIL
 NO SCALE

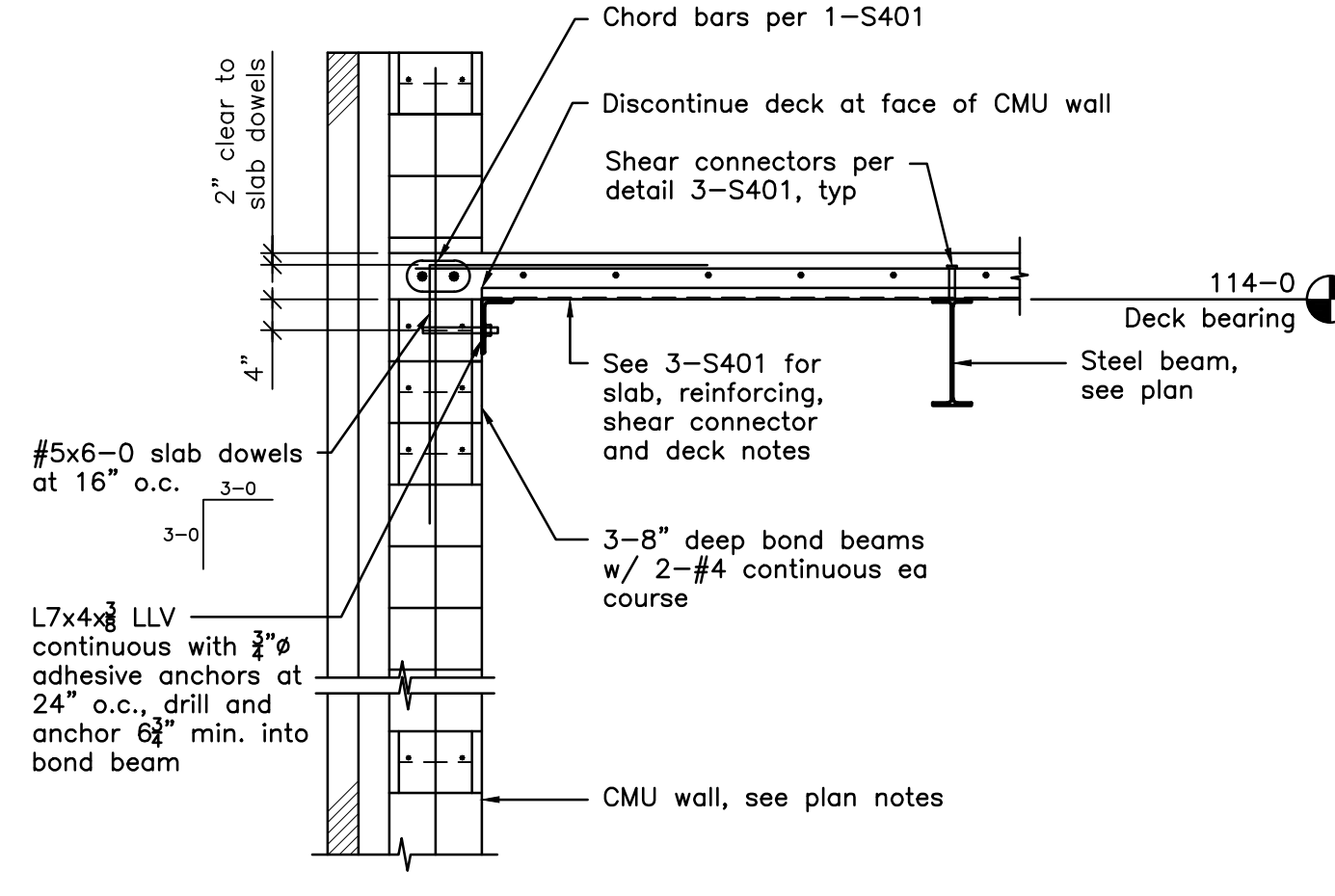
WALL FOOTING AND FOUNDATION SCHEDULE

MARK	TYPE	FOOTING			FOUNDATION			REF. SECTION	REMARKS
		ELEV. TOP	WIDTH W	DEPTH D	ELEV. LEDGE	T	A		
W1	I	93-4	3-8	1-0	99-4	---	1-0	---	1-S301
W2	I	97-0	3-0	1-0	99-4	---	1-8	---	2-S301
W3	I	97-0	4-0	1-0	99-4	---	1-8	---	2-S301
W4	I	Varies	2-4	1-0	99-4	---	1-8	---	4-S301
W5	I	97-0	2-4	1-0	99-4	---	1-8	---	5-S301
W6	I	97-0	1-4	1-0	99-4	---	0-8	---	6-S301

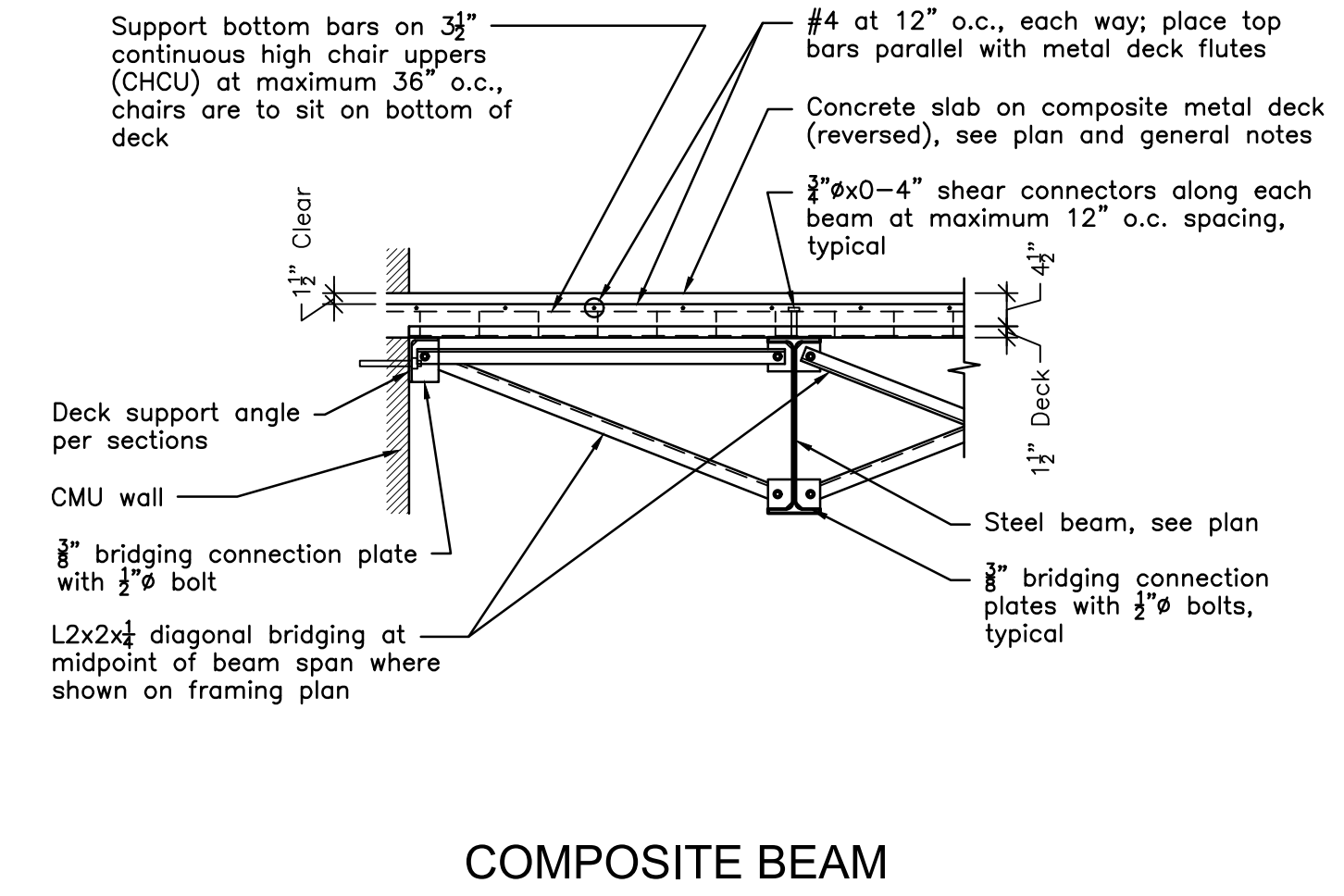




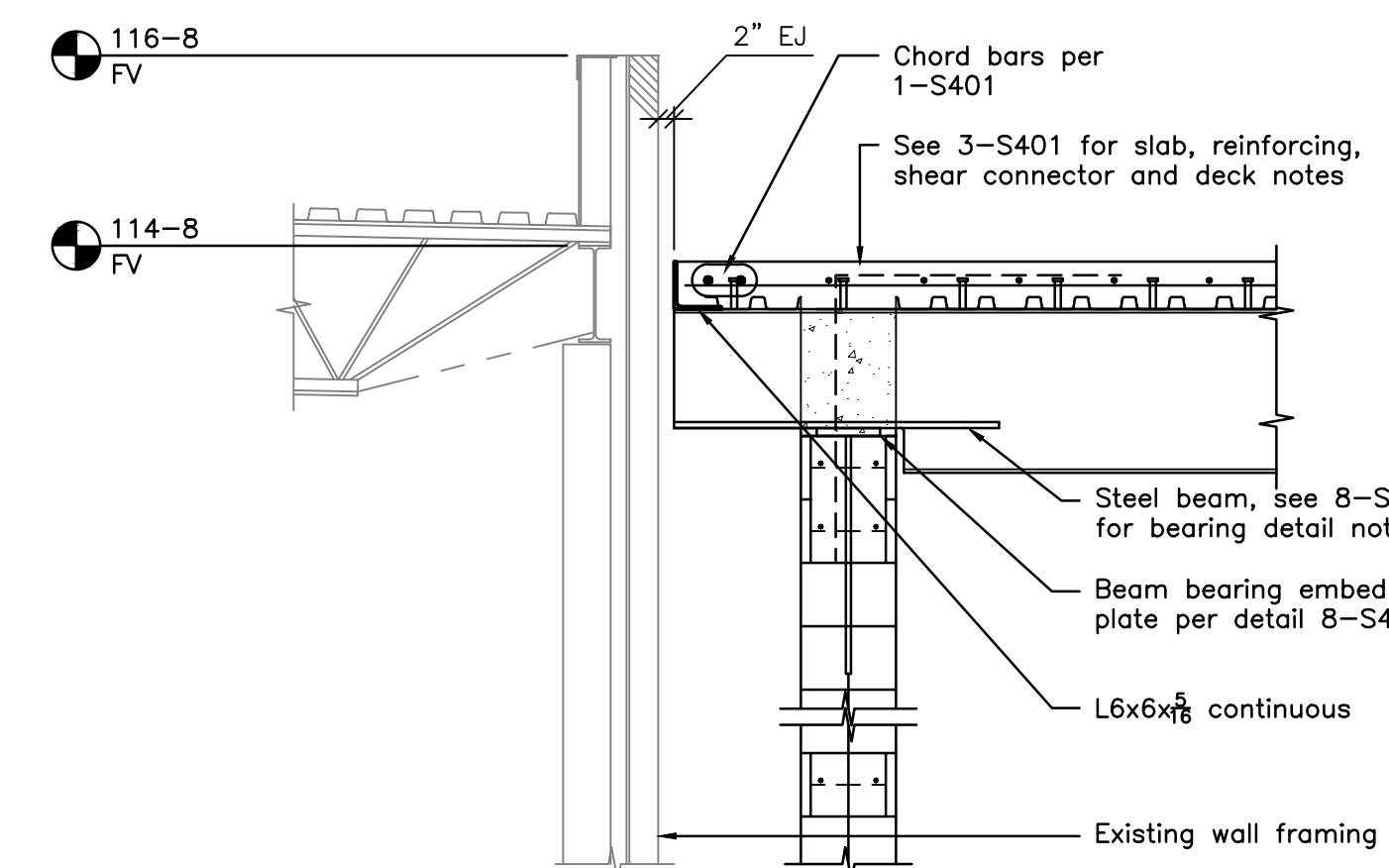
1 SECTION
1/2" = 1'-0"



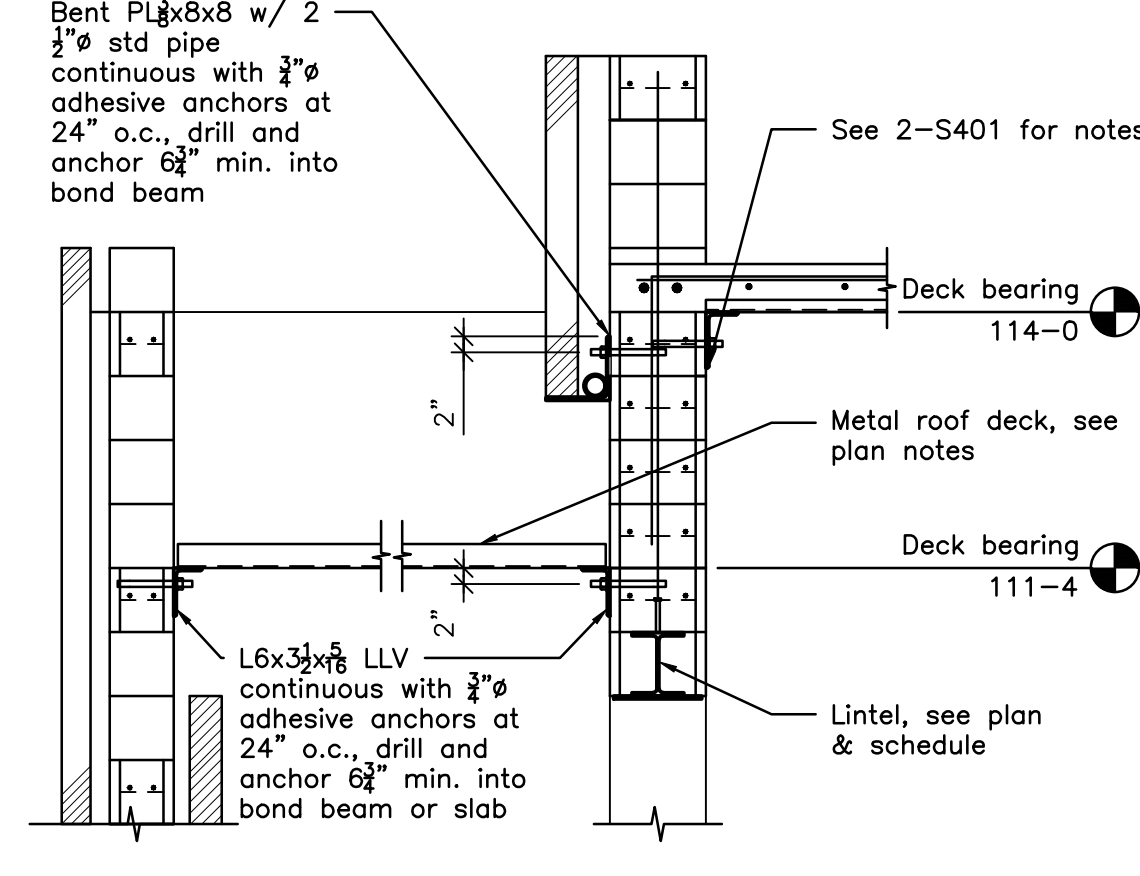
2 SECTION
1/2" = 1'-0"



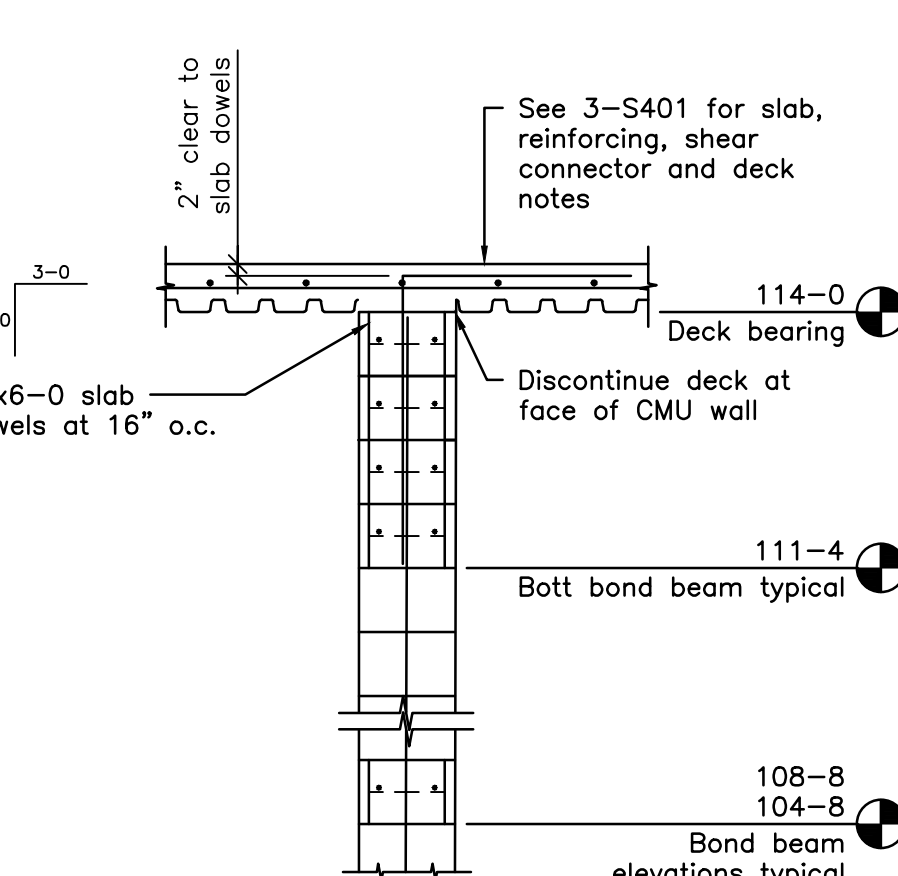
COMPOSITE BEAM AND SLAB DETAIL
No Scale



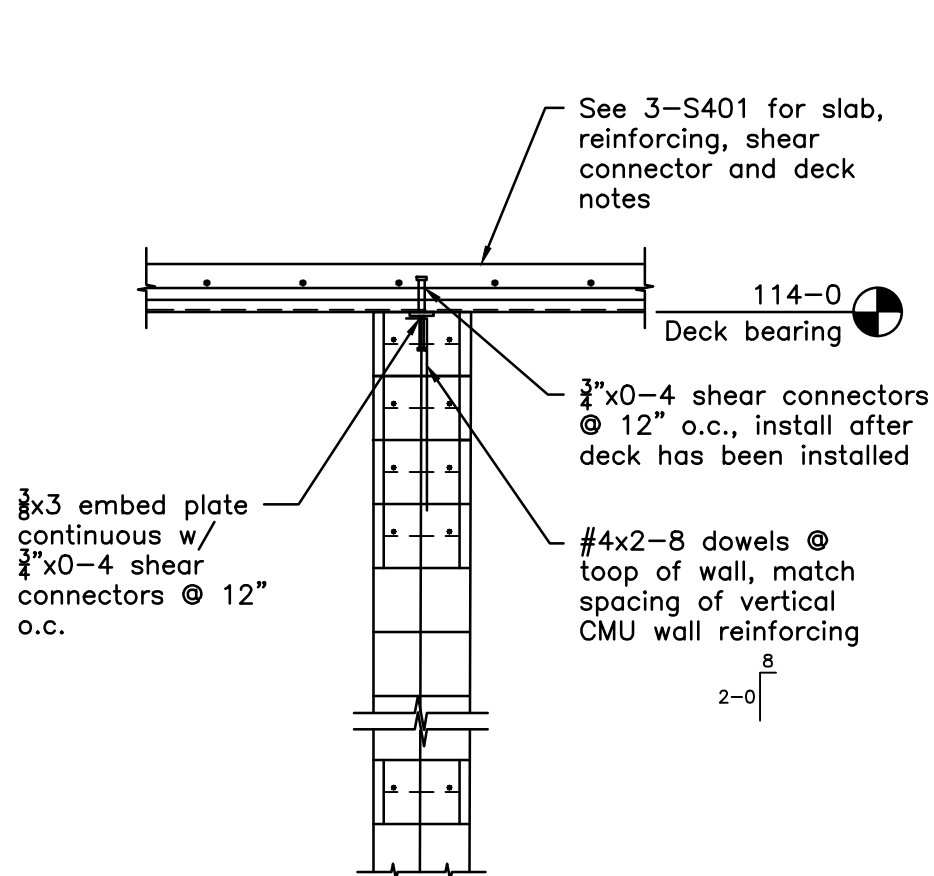
4 SECTION
1/2" = 1'-0"



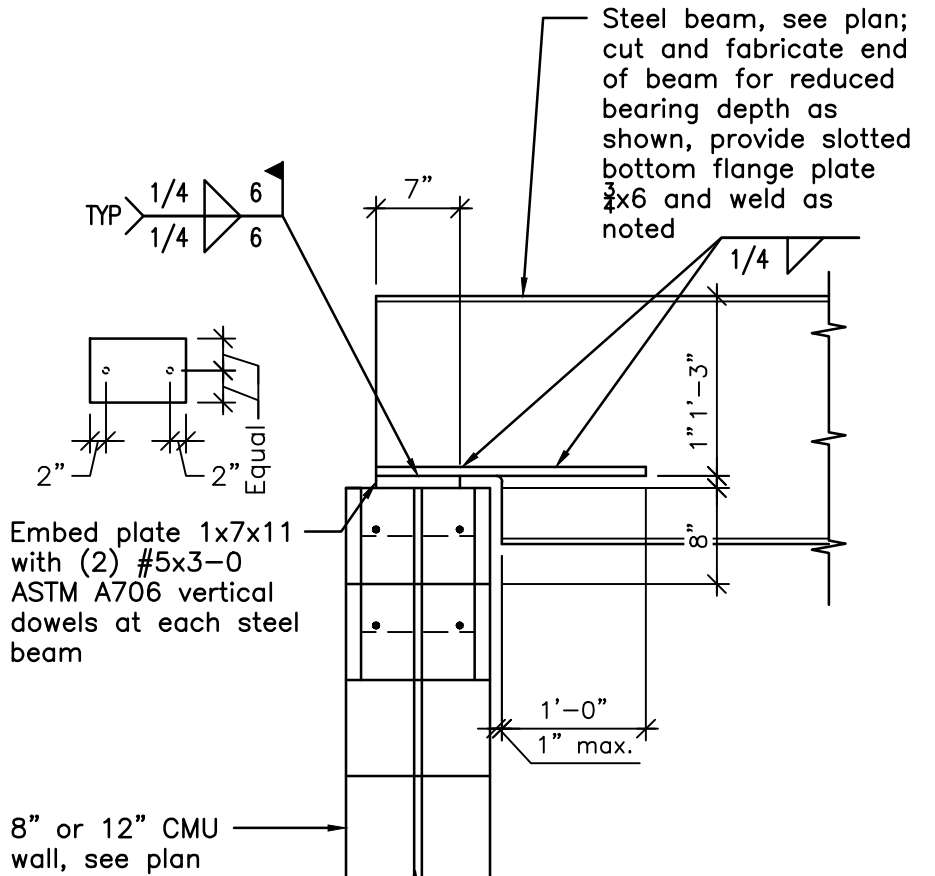
5 SECTION
1/2" = 1'-0"



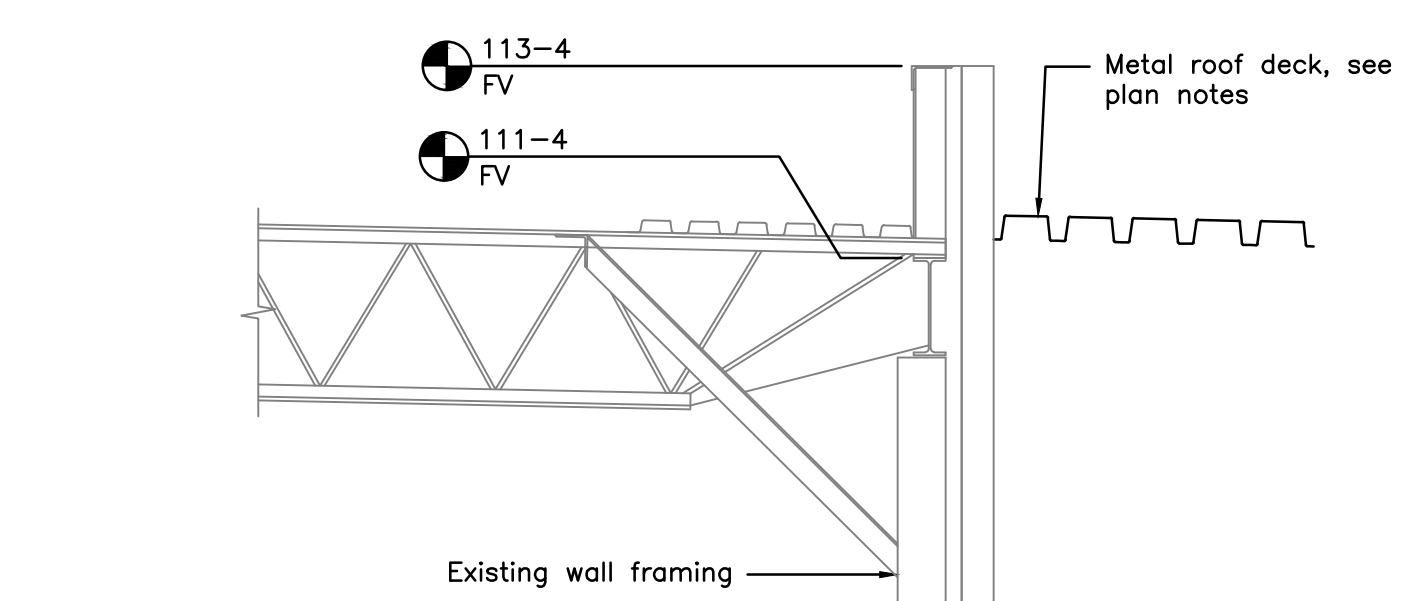
6 SECTION
1/2" = 1'-0"



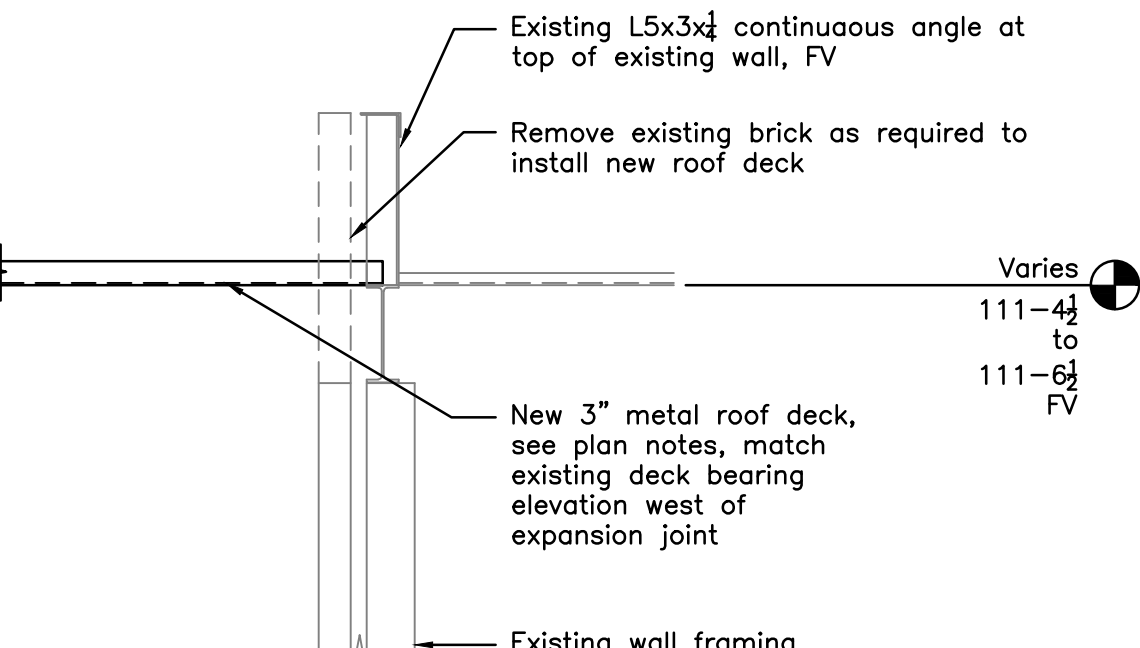
7 SECTION
1/2" = 1'-0"



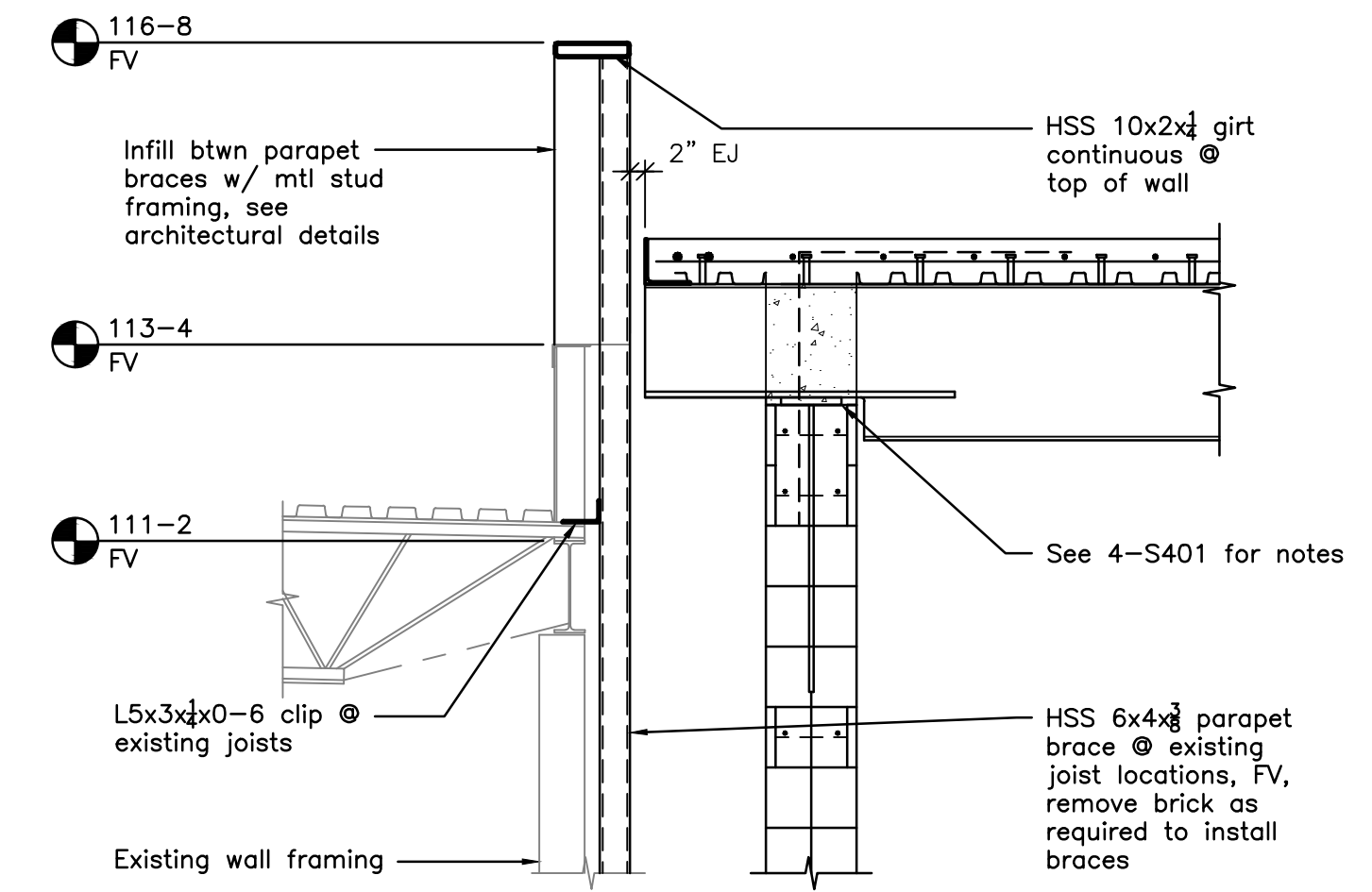
8 DETAIL
1/2" = 1'-0"



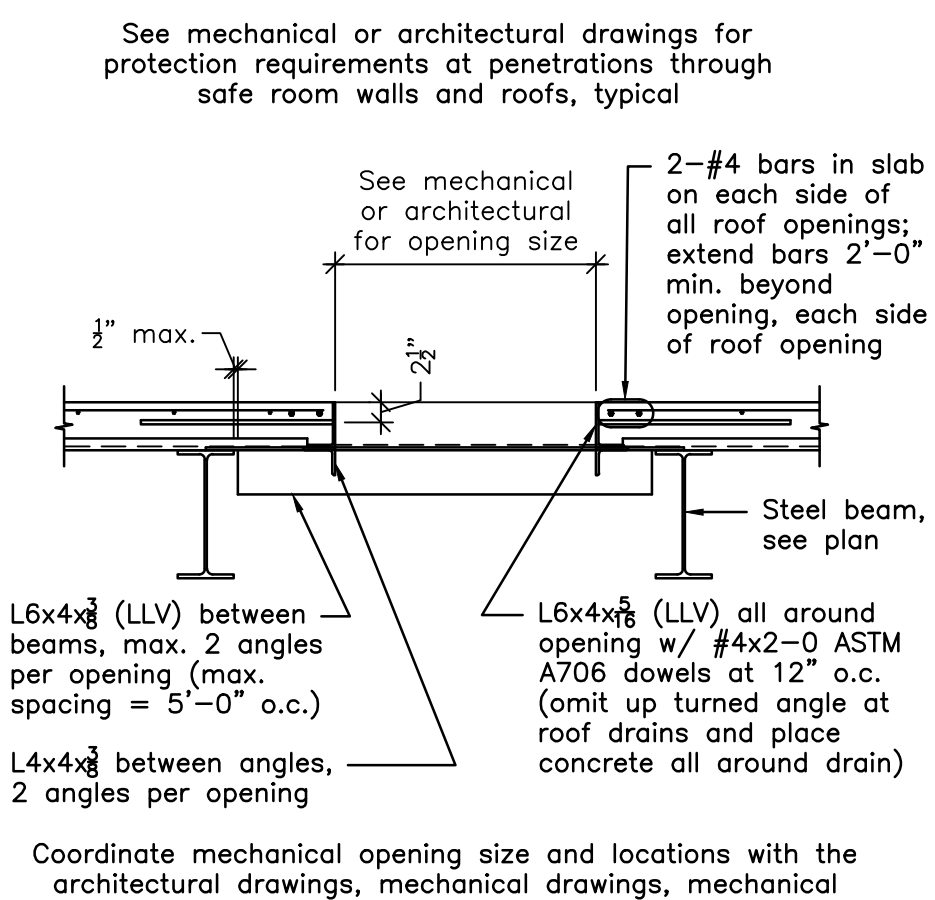
9 SECTION
1/2" = 1'-0"



10 SECTION
1/2" = 1'-0"



11 SECTION
1/2" = 1'-0"

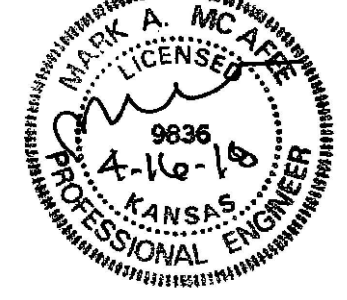


12 SHELTER SLAB OPENING DETAIL
No Scale

TYPICAL COMPOSITE BEAM AND SLAB NOTES:

1. Metal deck shall be continuous over three or more spans, unless detailed otherwise on structural drawings.
2. Steel beams are designed as unshored.
3. Provide pour stops and cell closures as required.
4. Do not load composite beam and slab system until concrete shear reached design strength. See General Structural Notes.
5. Shear connectors shall be spaced symmetrically about the centerline of the beam and at 12" o.c. maximum along each beam. Place shear connectors in deck flutes perpendicular to beam.
6. Shear connectors shall be field welded to the steel beams, after the deck shear been installed, with automatic timed stud welding equipment. Stud welding shall comply with American Welding Society Standard D1.1, Section 7 and shall be inspected as specified. The field testing and inspection agency shall perform hammer and/or bend test on headed studs and shall approve stud installation prior to placement of the concrete slab.
7. Install composite deck in reverse orientation (wide flute down).

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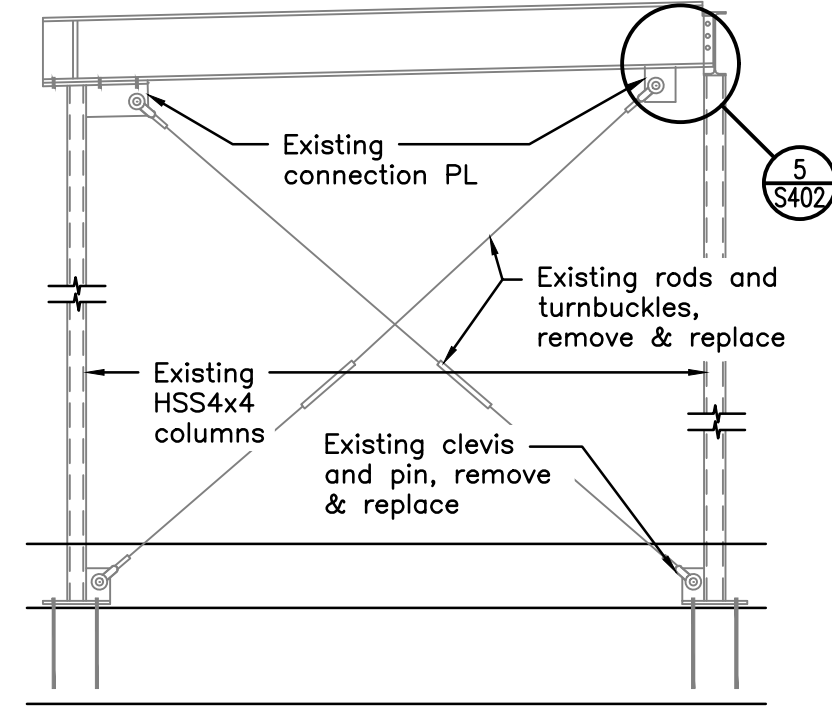


SAFETY AND SECURITY UPGRADES TO
WILEY ELEMENTARY, HOLCOMB ELEMENTARY
HOLCOMB MIDDLE SCHOOL
HOLCOMB, KANSAS

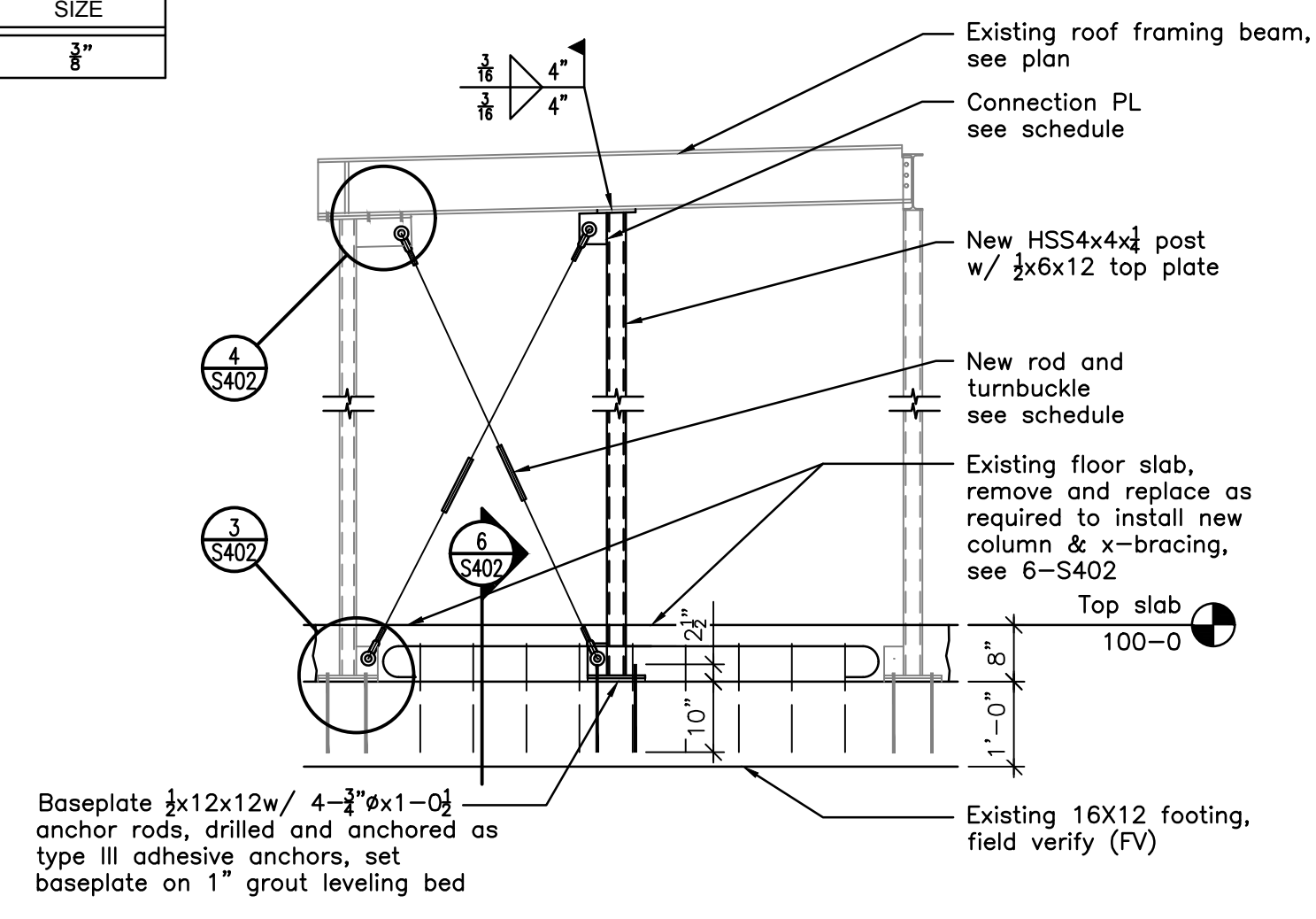
SHEET TITLE:
FRAMING SECTIONS AND
DETAILS
DATE:
4/17/2018

X-BRACING SCHEDULE

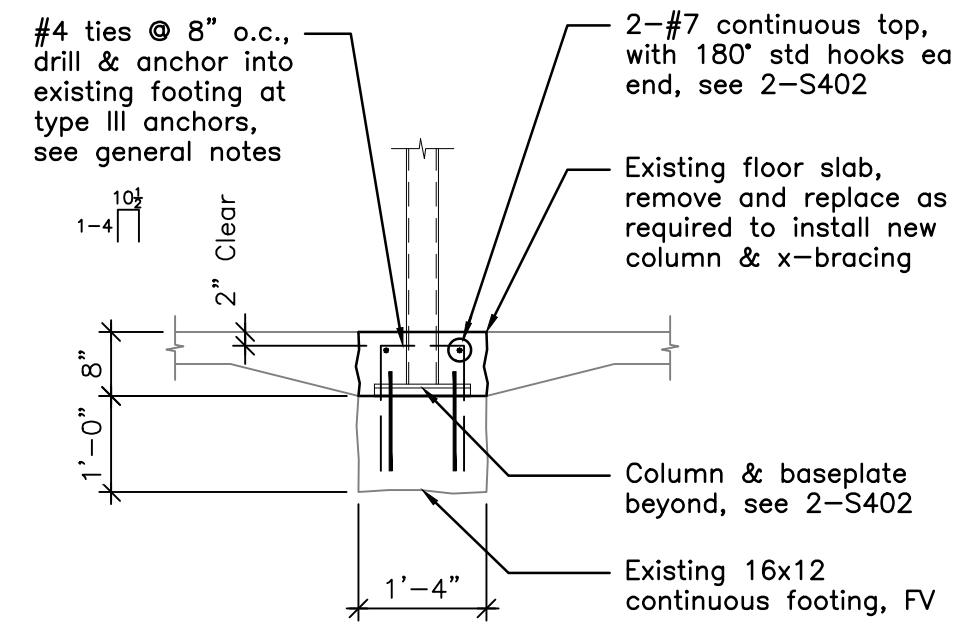
MARK	TURNBUCKLE, ROD SIZE	ROD FORCE	CLEVIS SIZE	PIN DIAMETER	CONN PLATE SIZE
XB1	1 1/2"Ø	21.2 k	#3	1"Ø	3/8"



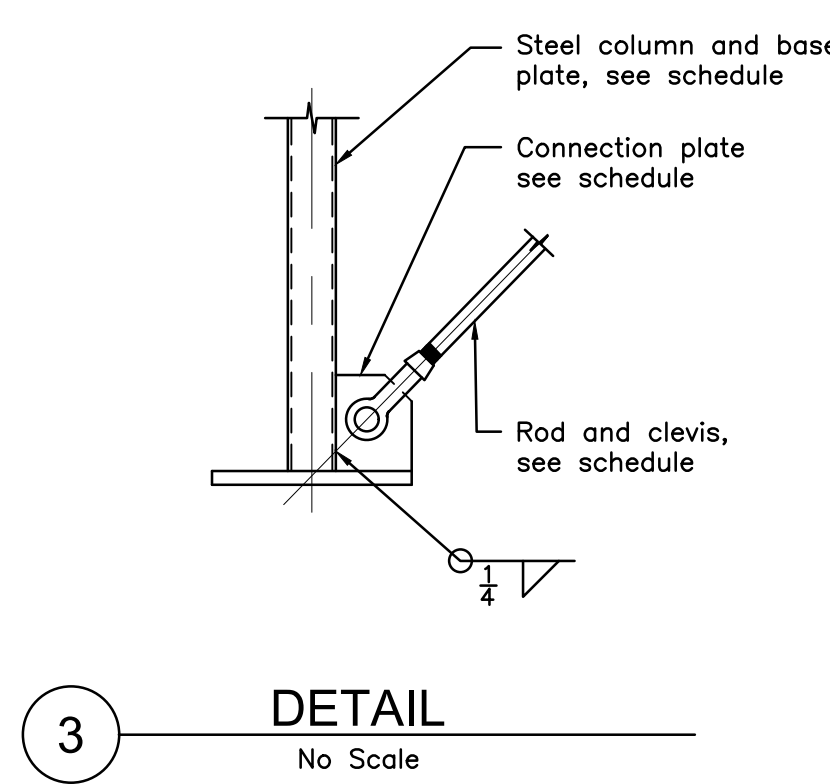
1 EXISTING X-BRACING DETAIL
No Scale



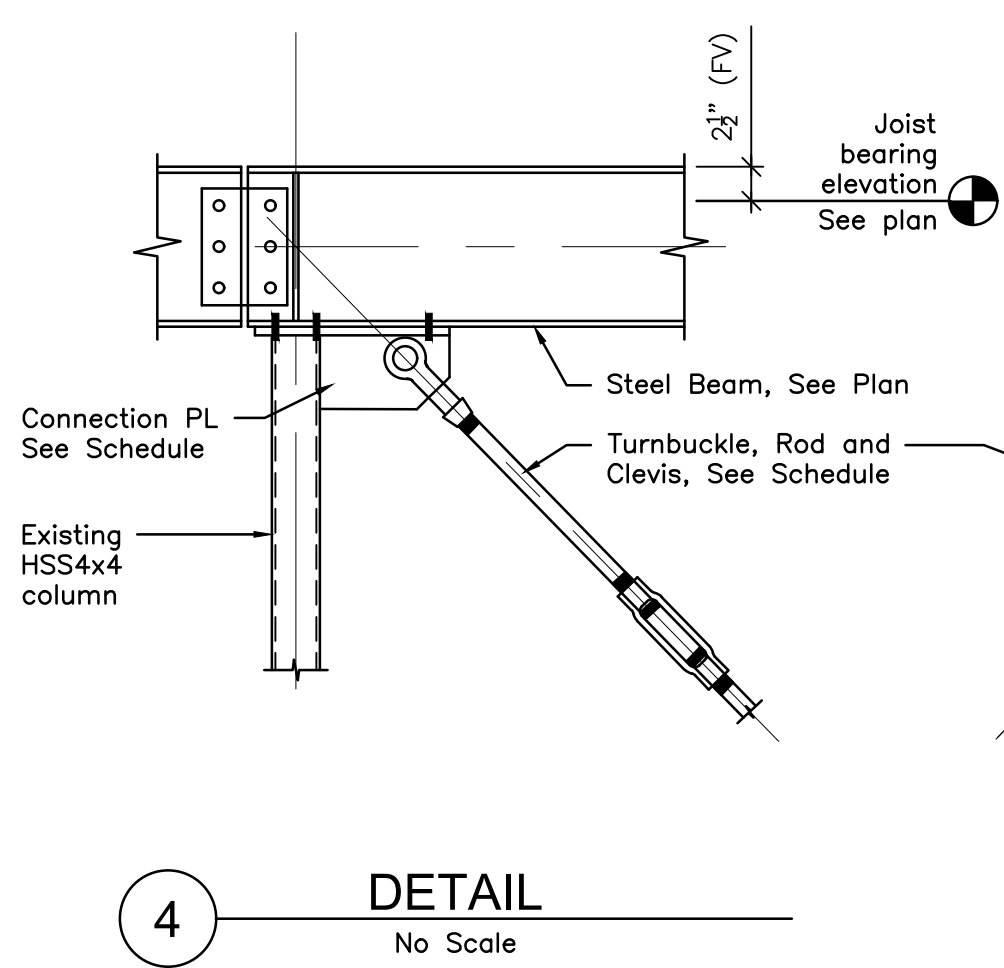
2 MODIFIED X-BRACING DETAIL
No Scale



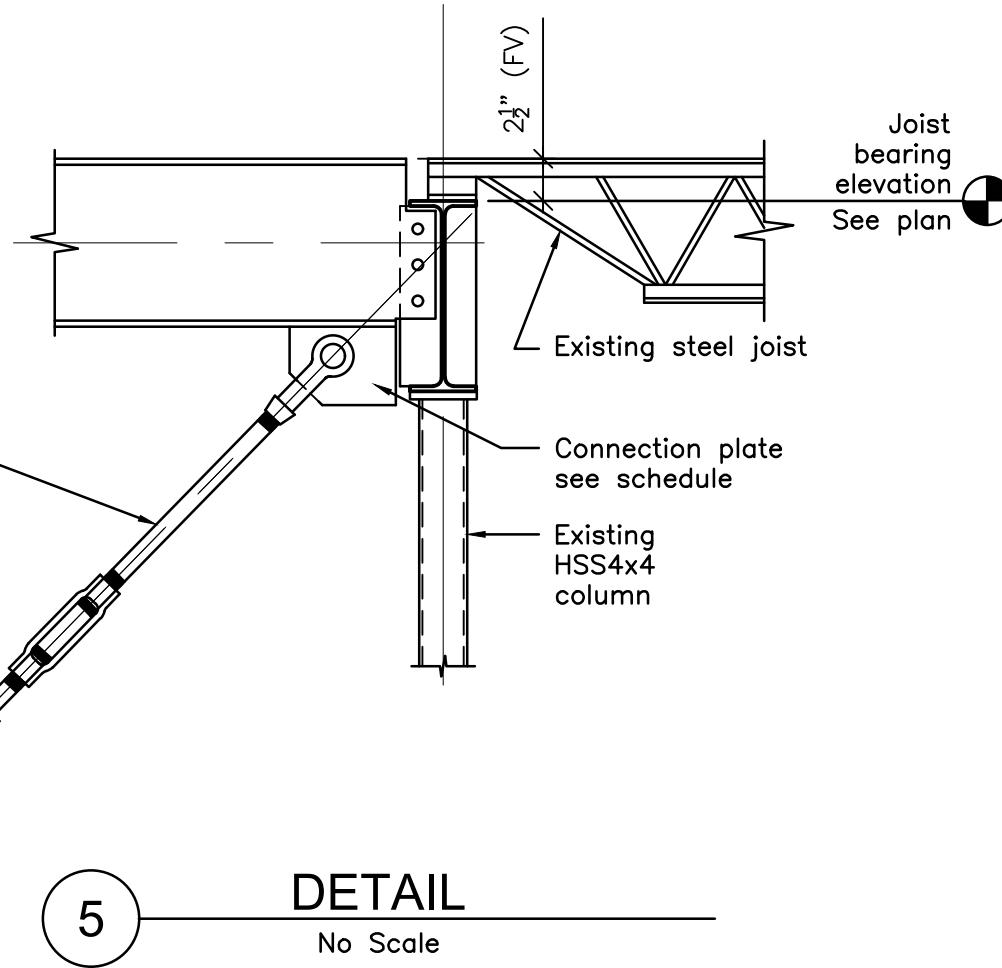
6 SECTION
1/2" = 1'-0"



3 DETAIL
No Scale



4 DETAIL
No Scale



5 DETAIL
No Scale

FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS. NOTIFY THE ARCHITECT FOR DIRECTION IF THE ACTUAL EXISTING CONDITIONS DIFFER FROM THE EXISTING CONDITIONS SHOWN OR IMPLIED ON THE DRAWINGS.



2017-21



SAFETY AND SECURITY UPGRADES TO
**WILEY ELEMENTARY, HOLCOMB ELEMENTARY
HOLCOMB MIDDLE SCHOOL**
HOLCOMB, KANSAS

SHEET TITLE:
FRAMING SECTIONS AND
DETAILS
DATE:
4/17/2018

HVAC & PLUMBING SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER LINE (CW)		HYDRAULIC VALVE
	EXISTING DOMESTIC COLD WATER LINE (CW)		EMERGENCY VALVE WITH FIRE LINK
	DOMESTIC HOT WATER LINE (HW)		STRAINER
	EXISTING DOMESTIC HOT WATER LINE (HW)		PLUG VALVE
	HOT WATER RECIRC LINE (HWC)		CALIBRATED BALANCE VALVE
	EXISTING HOT WATER RECIRC LINE (HWC)		AUTOMATIC FLOW CONTROL VALVE
	FIRE PROTECTION LINE (F)		CALIBRATED ORIFICE PLATE FLOW METER
	EXISTING FIRE PROTECTION LINE (F)		SPRING HANGER
	COMPRESSED AIR (CA)		PIPE HANGER
	EXISTING COMPRESSED AIR (CA)		THERMOMETER
	ABOVE FLOOR WASTE LINE (W)		PRESSURE GAUGE
	EXISTING ABOVE FLOOR WASTE LINE (W)		(UP) DUCT SECTION, POSITIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
	BELOW FLOOR WASTE LINE (W)		(DOWN) DUCT SECTION, POSITIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
	EXISTING BELOW FLOOR WASTE LINE (W)		(UP) DUCT SECTION, NEGATIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
	PLUMBING VENT LINE (V)		SUPPLY DUCT DROP
	EXISTING PLUMBING VENT LINE (V)		SUPPLY DUCT RISER
	RAIN LEADER (RL)		RETURN DUCT DROP
	EXISTING RAIN LEADER (RL)		RETURN DUCT RISER
	OVERFLOW RAIN LEADER (ORL)		FLEXIBLE DUCT
	EXISTING OVERFLOW RAIN LEADER (ORL)		TURNING VANES
	NATURAL GAS LINE (G)		SIDE WALL SUPPLY REGISTER
	VENT THRU ROOF		(DOWN) DUCT SECTION, NEGATIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
	FLOOR DRAIN		DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (CLEAR INSIDE DIMENSIONS)
	CLEANOUT (FLOOR)		DUCT CHANGE OF ELEVATION RISE(R) DROP(D)
	2-WAY CLEANOUT (FLOOR)		FLEXIBLE CONNECTION
	WALL CLEANOUT		OPPOSED BLADE BALANCING DAMPER W/ MANUAL LOCKING QUADRANT (RECT DUCT)
	END OF LINE CLEANOUT		BUTTERFLY BALANCING DAMPER W/ MANUAL LOCKING QUADRANT (ROUND DUCT)
	PLUMBING FIXTURE CALLOUT		OPPOSED BLADE BALANCING DAMPER W/ MOTORIZED LOCKING QUADRANT (RECT DUCT)
	WATER HAMMER ARRESTOR - PDI SIZE		BUTTERFLY BALANCING DAMPER W/ MOTORIZED LOCKING QUADRANT (ROUND DUCT)
	FLOW LINE ELEVATION		OPPOSED BLADE DAMPER
	HOSE REEL		AIR HANDLING UNIT
	HOSE BIBB		EXHAUST FAN
	DOMESTIC HOT WATER PUMP		FAN COIL UNIT
	ROOF DRAIN		ROOFTOP UNIT
	OVERFLOW ROOF DRAIN		SUPPLY AIR
	CAST IRON		OUTSIDE AIR
	VITRIFIED CLAY PIPE		RETURN AIR
	POLYVINYL CHLORIDE PIPE		EXHAUST AIR
	TRENCH DRAIN		FIRE DAMPER IN WALL (VERTICAL POSITION)
	WALL HYDRANT		FIRE DAMPER IN FLOOR (HORIZONTAL POSITION)
	WATER HEATER CALLOUT		SMOKE DAMPER
	FILTER-SEPARATOR		COMBINATION FIRE/SMOKE DAMPER (VERTICAL POSITION)
	FLOOR SINK		COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL POSITION)
	FIRE HOSE CABINET		RADIATION DAMPER
	CAP		ELECTRIC OR DDC THERMOSTAT
	PIPE RISE		MOTOR
	PIPE DROP		TEMPERATURE SENSOR
	UNION OR FLANGE CONNECTION		HUMIDITY SENSOR
	DIRECTION OF FLOW		ELECTRIC WIRING (WITH 2 WIRES) - LOW VOLTAGE
	ANCHOR		120V POWER WIRING
	CONCENTRIC REDUCER OR INCREASER		CONTROL COMMUNICATION WIRING
	ECCENTRIC REDUCER		HUMIDIFIER
	TOP CONNECTION, 45° OR 90°		DIFFERENTIAL PRESSURE
	BOTTOM CONNECTION, 45° OR 90°		TEMPERATURE CONTROL CONTRACTOR
	SIDE CONNECTION		MECHANICAL CONTRACTOR
	CAPPED OUTLET		PLUMBING CONTRACTOR
	BOTTOM OF PIPE ELEVATION ABOVE FLOOR		ELECTRICAL CONTRACTOR
	TOP OF PIPE ELEVATION ABOVE FLOOR		GENERAL CONTRACTOR
	COOLING COIL CONDENSATE DRAIN LINE (CD)		SUPPLY REGISTER
	DOUBLE CHECK BACKFLOW ASSEMBLY		RETURN GRILLE
	REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY		ELECTRIC UNIT HEATER
	GAS COCK		GAS UNIT HEATER
	VALVE IN DROP		CHILLER CALLOUT
	VALVE IN RISER		ROOM CALLOUT
	GATE VALVE / SHUT OFF VALVE		REVISION NUMBER
	GLOBE VALVE		CONNECT NEW TO EXISTING. VERIFY EXACT LOCATION.
	3 PIECE BALL VALVE		REFER TO PLAN NOTES
	BALL VALVE		EXISTING EQUIPMENT OR MATERIAL DESIGNATION
	BUTTERFLY VALVE		
	2-WAY CONTROL VALVE		
	3-WAY CONTROL VALVE		
	CHECK VALVE		

DRAWING SYMBOLS

EQUIPMENT CALLOUT	SECTIONS	DETAILS

SHEET INDEX

M0.1 - MECHANICAL COVER SHEET
M1.1 - WILEY ELEMENTARY HVAC PLANS
M2.1 - ELEMENTARY SCHOOL MECHANICAL DEMOLITION PLAN
M2.2 - ELEMENTARY SCHOOL MECHANICAL PLAN
M3.1 - MECHANICAL DETAILS AND SCHEDULES

GENERAL NOTES

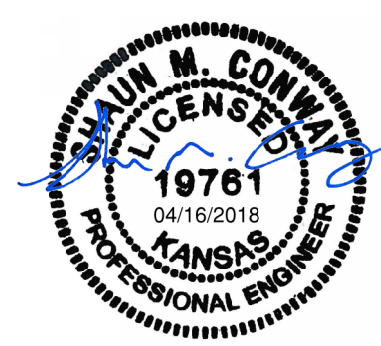
- VERIFY JOB SITE CONDITIONS AND DIMENSIONS BEFORE BEGINNING WORK. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.
- NO PIPING, DUCTWORK, ETC. SHALL PENETRATE STRUCTURAL MEMBERS.
- PROVIDE MISCELLANEOUS CUTTING, PATCHING AND REPAIRING OF FINISHES, ROOF, WALLS, ETC., AS REQUIRED TO ACCOMMODATE THE NEW WORK.
- G.C. IS TO PATCH ANY OPENINGS IN CORRIDORS REQUIRED TO BE CONSTRUCTED TO LIMIT THE TRANSFER OF SMOKE AND IN SMOKE BARRIERS AS REQUIRED TO MEET CODE REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT LOCATION, CONFIGURATION AND ROUTING OF EXISTING SYSTEMS REQUIRED TO REMAIN IN OPERATION DURING THE PROJECT TO PREVENT DAMAGE DURING DEMOLITION AND PHASING.
- REMOVE ALL EXISTING EQUIPMENT, DUCTWORK AND PIPING THAT IS NOT REQUIRED FOR A WORKING INSTALLATION.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- UNLESS OTHERWISE INDICATED, INSTALL ALL SPACE THERMOSTATS AND OTHER OCCUPANT ADJUSTABLE CONTROL DEVICES SAME HEIGHT AS ADJACENT LIGHT SWITCHES, BUT IN NO CASE HIGHER THAN 48 INCHES ABOVE FINISHED FLOOR PER ADA REQUIREMENTS. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL CUTTING AND PATCHING SHALL BE CLOSELY COORDINATED WITH THE G.C.
- COORDINATE ROUTING OF PLUMBING AND HVAC PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE. REWORK OF INSTALLED WORK TO RESOLVE CONFLICTS ARISING FROM LACK OF COORDINATION SHALL NOT JUSTIFY AN INCREASE IN THE CONTRACT AMOUNT.
- ALL DIFFUSERS ARE 4-WAY BLOW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- FLEXIBLE DUCTWORK IS ALLOWED ON RUNOUTS TO SUPPLY DIFFUSERS ONLY. UTILIZE ONLY ABOVE LAY-IN ACCESSIBLE CEILING. DO NOT INSTALL FLEX DUCT ABOVE HARD CEILING OR WHERE EXPOSED. A MAXIMUM LENGTH OF 6'-0" MAY BE USED AT EACH CONNECTION.
- SEAL DUCTWORK AS CALLED OUT BELOW USING HARDCAST DT TAPE AND FT-20 ADHESIVE OR HARDCAST AFG-1402 "FOIL GRIP" PER MANUFACTURERS INSTRUCTIONS. SEAL TO SMOA/NA SEAL CLASS A:

TYPE OF DUCT EXHAUST DUCT (ROUND OR RECT) MEDIUM VELOCITY (ROUND) MEDIUM VELOCITY (RECTANGULAR) LOW VELOCITY SUPPLY AND RETURN (RECT) LOW VELOCITY SUPPLY (ROUND)	APPLY TO JOINTS TRANSVERSE AND LONGITUDINAL TRANSVERSE AND LONGITUDINAL TRANSVERSE AND LONGITUDINAL TRANSVERSE AND LONGITUDINAL TRANSVERSE AND LONGITUDINAL
---	---
- INSTALL BALANCE DAMPER WITH STANDOFF AND LOCKING QUADRANT IN AN ACCESSIBLE LOCATION AT EACH RUNOUT TO SUPPLY DIFFUSERS, EXHAUST GRILLES, AND RETURN GRILLES WHERE AIRFLOW IS INDICATED, OR AS INDICATED OTHERWISE.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED BY THE TRADE MAKING THE PENETRATION. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
- DO NOT ROUTE PIPING OR DUCTWORK OVER ELECTRICAL PANELS OR EQUIPMENT. PIPING OR DUCTWORK SHALL NOT BE ROUTED THROUGH ELECTRICAL ROOMS, TELECOM ROOMS OR ELEVATOR EQUIPMENT ROOMS UNLESS SPECIFICALLY SERVING THAT ROOM. COORDINATE WITH E.C. PROVIDE WATER TIGHT DRIP PAN WITH DRAIN TO NEAREST APPROVED RECEPTOR WHERE REQUIRED.
- COORDINATE SIZE AND LOCATION OF ACCESS DOORS IN CONSTRUCTION REQUIRED FOR ACCESS TO MECHANICAL EQUIPMENT WITH G.C.
- COORDINATE SIZE AND LOCATION OF MECHANICAL EQUIPMENT PADS WITH G.C.
- ALL WORK IS TO CONFORM WITH APPLICABLE CODES AND STANDARDS.
- DUCT SIZES SHOWN ARE ACTUAL INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO ACCOMMODATE DUCT LINER WHERE LINER IS SPECIFIED.
- ALL EQUIPMENT SUPPORT STANDS SHALL BE PRIMED AND PAINTED WITH EPOXY ENAMEL.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES.
- PAINT INSIDE OF DUCTWORK BLACK ANYWHERE VISIBLE THROUGH FACE OF GRILLE OR DIFFUSER.
- TEMPERATURE CONTROLS CONTRACTOR (TCC) SHALL FURNISH AND INSTALL ALL LOW VOLTAGE WIRING AND ASSOCIATED CONDUIT REQUIRED FOR MECHANICAL CONTROL SYSTEM. WIRING SHALL BE IN CONDUIT INSIDE WALLS, IN ROOMS WITH EXPOSED CEILING, AND ABOVE HARD CEILING. LINE VOLTAGE WIRING AND ASSOCIATED CONDUIT SHALL BE PROVIDED AND INSTALLED BY E.C. CONTROL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS.
- ALL CONTROL DAMPERS SHALL BE FURNISHED BY TCC AND INSTALLED BY THE MC. MOTOR OPERATORS SHALL BE FURNISHED AND INSTALLED BY THE TCC.
- COORDINATE ACCESS TO EQUIPMENT AND VALVES INSTALLED ABOVE "HARD" CEILING AND IN MASONRY CHASES WITH GENERAL CONTRACTOR. PROVIDE LOCKING ACCESS DOORS FOR INSTALLATION BY CONTRACTOR AS REQUIRED TO SERVICE CONCEALED DAMPERS, VALVES AND EQUIPMENT. CEILING ACCESS DOORS FOR FIRE DAMPERS, SMOKE DAMPERS AND FIRE SMOKE DAMPERS FURNISHED AND INSTALLED BY CONTRACTOR.
- CONTRACTOR TO INSTALL TEMPORARY FILTERS OVER ALL RETURN AND EXHAUST GRILLES IN WORK AREA DURING CONSTRUCTION.
- THESE DRAWINGS ARE ACCOMPANIED BY SPECIFICATIONS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- EQUIPMENT THAT REQUIRES MAINTENANCE SHALL BE LOCATED A MINIMUM OF 10'-0" FROM THE BUILDING ROOF EDGE WHERE REQUIRED BY CODE.

GENERAL DEMOLITION NOTES

- VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
- REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.
- REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION.
- CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
- ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH PROPER FLUID AND PROPERLY VENTED BY THIS CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
- COORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILING, WALLS, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
- EXISTING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILING, ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIAL TO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
- EXISTING PIPING, FIXTURES AND EQUIPMENT THAT ARE NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF SAME. IF NOT, EQUIPMENT SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AS PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
- ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
- WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
- PORTIONS OF EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILDING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
- ALL WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND OCCUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF DISRUPTION OF BUILDING ACTIVITIES AS POSSIBLE. MAINTAIN CONDITIONED SPACE FOR ALL OWNER OCCUPIED AREAS DURING CONSTRUCTION.
- ALL ACCESSIBLE ABANDONED PIPING AND DUCTWORK SHALL BE REMOVED AND PROPERLY DISPOSED OF.

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 U:\Mech\180089-000-00-1 MECHANICAL COVER SHEET



2017-21



**SAFETY AND SECURITY UPGRADES TO
 WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
 HOLCOMB MIDDLE SCHOOL**
 HOLCOMB, KANSAS

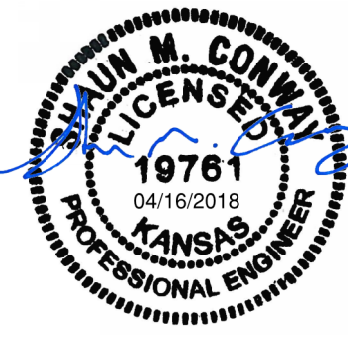
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2891 www.pec.com



SHEET TITLE:
 MECHANICAL COVER SHEET

DATE:
 April 16, 2018

M0.1



2017-21



SAFETY AND SECURITY UPGRADES TO WILEY ELEMENTARY, HOLCOMB ELEMENTARY & HOLCOMB MIDDLE SCHOOL HOLCOMB, KANSAS

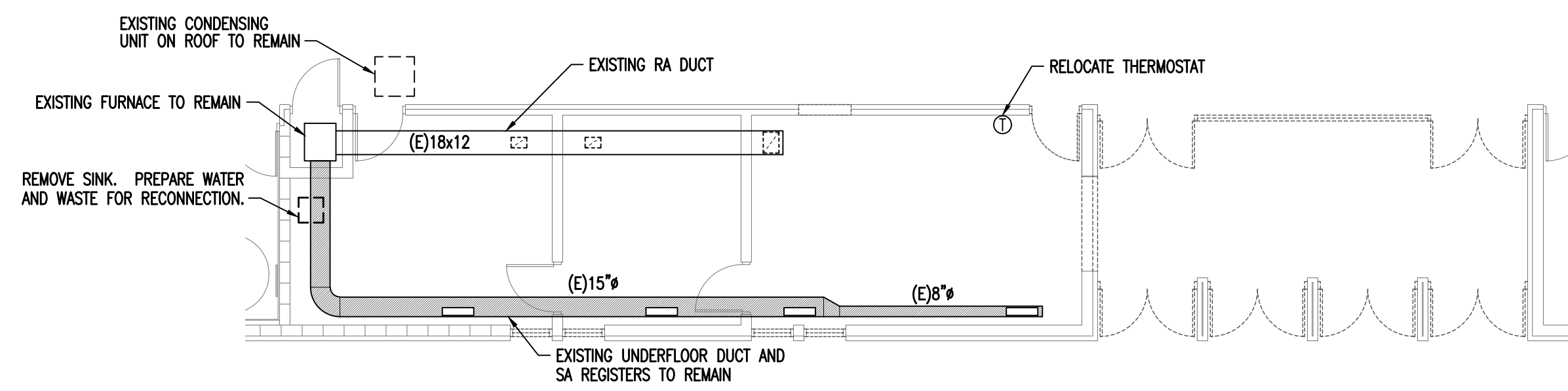
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
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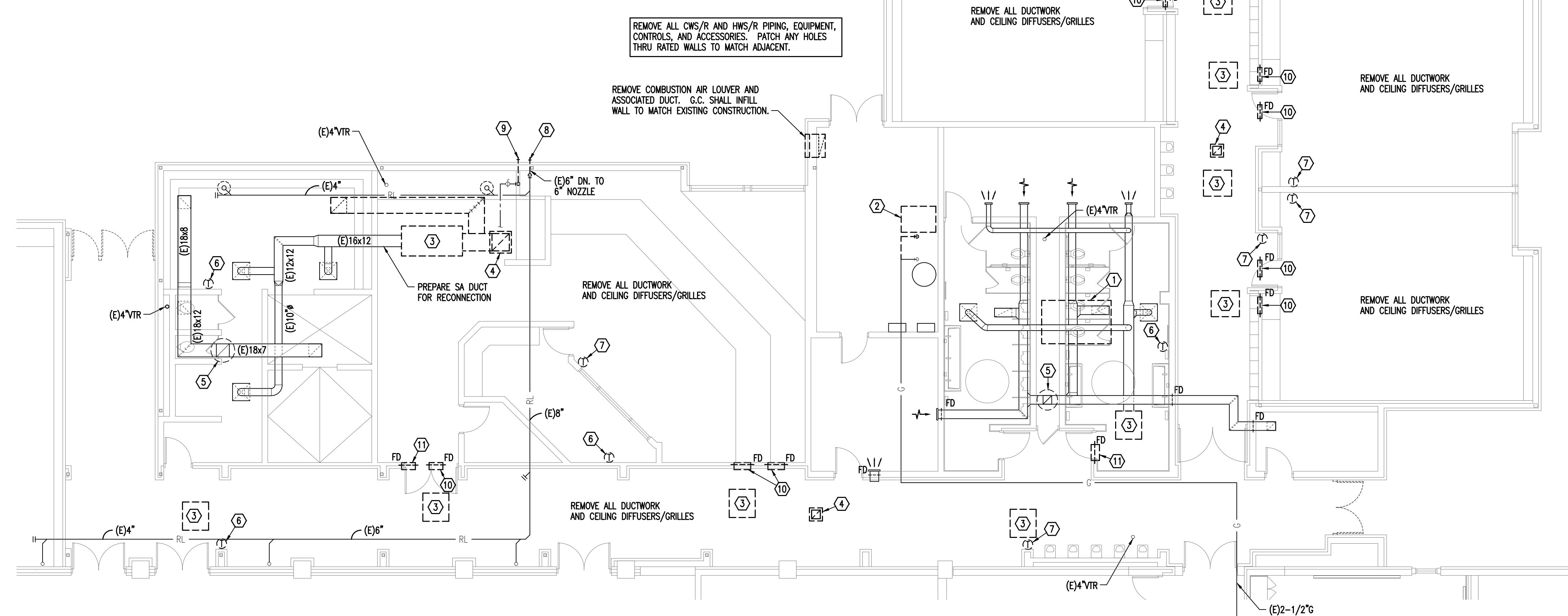
SHEET TITLE:
ELEMENTARY SCHOOL
MECHANICAL DEMOLITION
PLAN

DATE:
April 16, 2018

M2.1



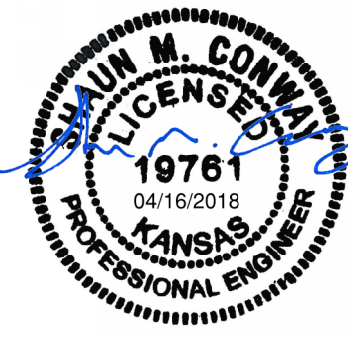
B MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 12' 20'



A MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 12' 20'

DEMO PLAN NOTES:

- ① REMOVE CHILLER FROM ROOF AND RETURN TO THE OWNER'S POSSESSION. STRUCTURAL STAND MAY REMAIN. PATCH PIPING HOLES THRU ROOF.
- ② REMOVE BOILER, PUMPS, AND ALL ASSOCIATED PIPING AND CONTROLS.
- ③ REMOVE FAN COIL UNIT AND ALL ASSOCIATED PIPING, DUCTWORK, GRILLES, AND CONTROLS.
- ④ REMOVE FRESH AIR INTAKE HOOD. INSTALL WEATHERPROOF INSULATED CURB CAP ON CURB.
- ⑤ EXHAUST FAN TO REMAIN.
- ⑥ REMOVE THERMOSTAT. PATCH HOLE OR INSTALL BLANK COVER PLATE.
- ⑦ REMOVE THERMOSTAT AND PREPARE OPENING FOR NEW THERMOSTAT.
- ⑧ REMOVE RAIN LEADER THRU WALL TO ABOVE CEILING. PATCH WALL TO MATCH ADJACENT. PREPARE PIPE FOR RECONNECTION.
- ⑨ REMOVE WALL HYDRANT AND PIPING TO ABOVE CEILING AND CAP. PATCH WALL TO MATCH ADJACENT.
- ⑩ REMOVE DUCT AND FIRE DAMPER. G.C. SHALL PATCH WALL TO MATCH ADJACENT AND TO MAINTAIN ITS CURRENT RATING.
- ⑪ REMOVE DUCT AND FIRE DAMPER. PREPARE OPENING FOR NEW DUCT AND FIRE DAMPER. INFILL OPENING AROUND NEW DUCT TO MATCH ADJACENT AND TO MAINTAIN RATING.

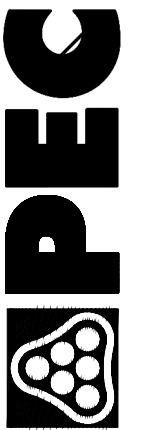


2017-21



SAFETY AND SECURITY UPGRADES TO WILEY ELEMENTARY, HOLCOMB ELEMENTARY & HOLCOMB MIDDLE SCHOOL

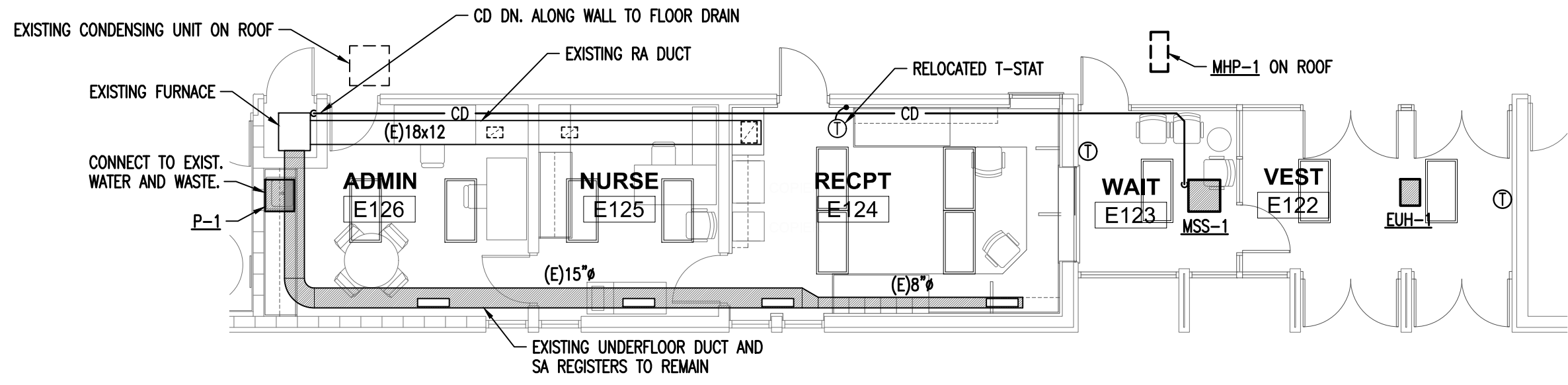
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SHEET TITLE:
ELEMENTARY SCHOOL
MECHANICAL PLAN

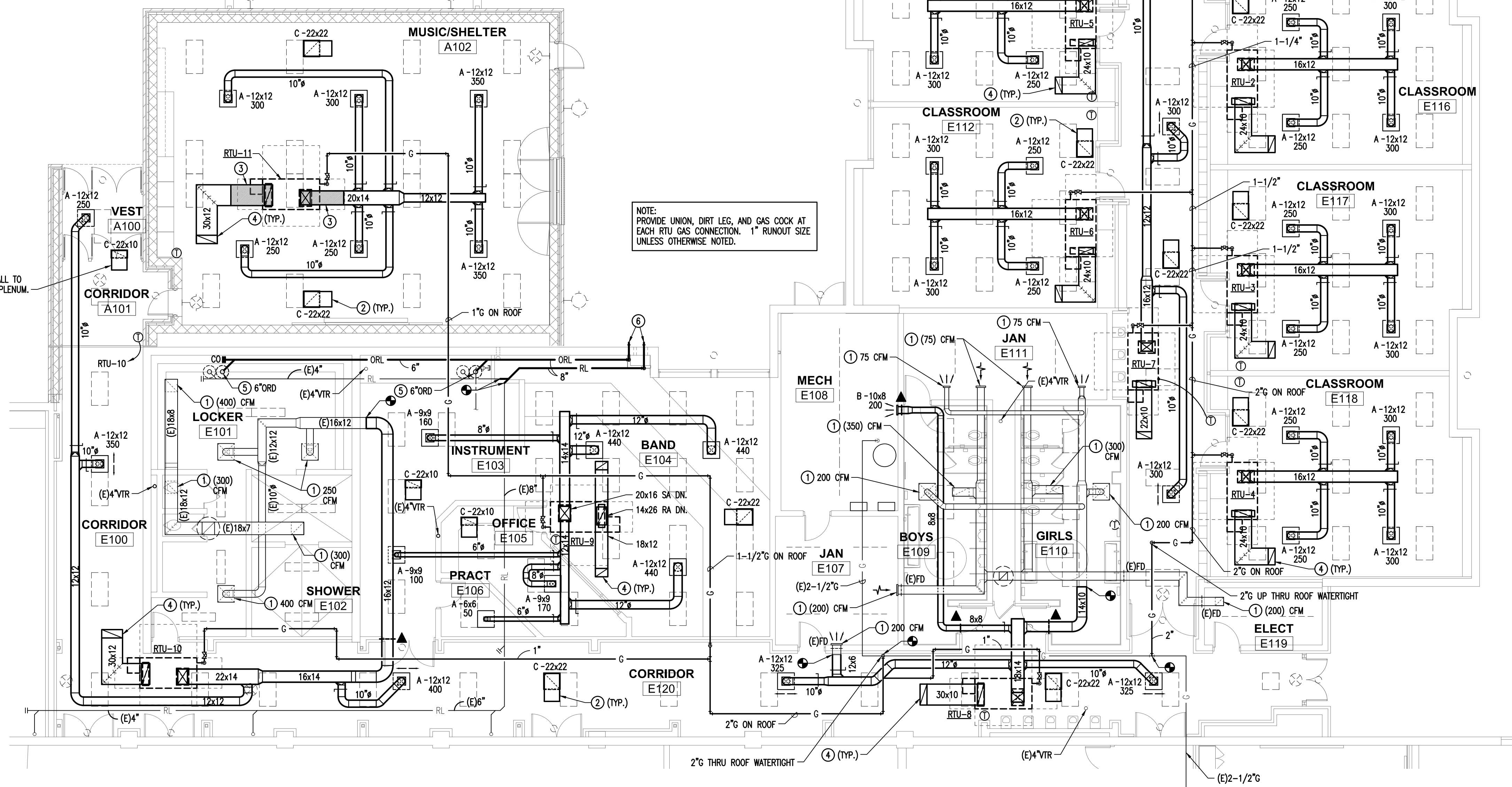
DATE:
April 16, 2018

M2.2



B MECHANICAL FLOOR PLAN

0' 4' 8' 12' 20'
SCALE: 1/8" = 1'-0"



A MECHANICAL FLOOR PLAN

0' 4' 8' 12' 20'
SCALE: 1/8" = 1'-0"

PLAN NOTES:

- EXISTING GRILLE/DIFFUSER TO REMAIN. CLEAN AND SET AIRFLOW PER PLAN. INSTALL BALANCE DAMPER OR OBD AS NECESSARY.
- RETURN GRILL SOUND TRAP. SEE DETAIL 5/M3.1.
- PROTECTED DUCT PENETRATIONS THRU ROOF. SEE DETAIL 6/M3.1.
- TURN RA DUCT UP. OPENING SHALL BE MINIMUM OF 12" BELOW UNDERSIDE OF ROOF DECK.
- INSTALL OVERFLOW ROOF DRAIN IN EXISTING ROOF ADJACENT TO WHERE EXISTING SCUPPER IS LOCATED. FIELD VERIFY EXACT REQUIREMENTS.
- 8"RL AND 8"ORL DOWN IN CHASE TO DISCHARGE THRU NOZZLE AT EXTERIOR WALL AT 24" ABOVE GRADE.

NOTE:
PROVIDE UNION, DIRT LEG, AND GAS COCK AT EACH RTU GAS CONNECTION. 1" RUNOUT SIZE UNLESS OTHERWISE NOTED.

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C:\Working\2018\180089\000\Drawings\180089-000-M2.2 ELEMENTARY SCHOOL MECHANICAL PLAN

ROOF TOP UNIT SCHEDULE

MARK	SERVES	NOM TONS	EVAPORATOR										RET. EXH FAN			CONDENSER										GAS HEAT			FILTER TYPE	LOW AMBIENT CONTROL TEMP	MIN SEER (EER)	MIN OUTSIDE CFM	OA FROM ERV	ELECTRICAL VOLTAGE	UNIT MCA	REMARKS	OPTIONS ACCESS.	ELECT REF
			CFM	EXT. SP	FAN NO.	H.P.	DRIVE	D.B.	W.B.	MBH COOLING (NET)	TOTAL	SEMS.	CFM	EXT. SP	HP	OUTSIDE AIR TEMP	TYPE	RIA	NO	CAP STEPS	COND. FAN HP	NO	INPUT MBH	STAGES														
RTU-1	CLASSROOM	3	1100	0.5	1	1/2	DIR	80	65	35.6	29.5	---	---	105°F	SCROLL	11.7	1	VAR	1/3	1	54	2	2"	PM	40°F	15.7	300	N	208/3	23	1000#	A,B,C,D	L1:26					
RTU-2	CLASSROOM	3	1100	0.5	1	1/2	DIR	80	65	35.6	29.5	---	---	105°F	SCROLL	11.7	1	VAR	1/3	1	54	2	2"	PM	40°F	15.7	300	N	208/3	23	1000#	A,B,C,D	L1:32					
RTU-3	CLASSROOM	3	1100	0.5	1	1/2	DIR	80	65	35.6	29.5	---	---	105°F	SCROLL	11.7	1	VAR	1/3	1	54	2	2"	PM	40°F	15.7	300	N	208/3	23	1000#	A,B,C,D	L1:38					
RTU-4	CLASSROOM	3	1100	0.5	1	1/2	DIR	80	65	35.6	29.5	---	---	105°F	SCROLL	11.7	1	VAR	1/3	1	54	2	2"	PM	40°F	15.7	300	N	208/3	23	1000#	A,B,C,D	L1:37					
RTU-5	CLASSROOM	3	1100	0.5	1	1/2	DIR	80	65	35.6	29.5	---	---	105°F	SCROLL	11.7	1	VAR	1/3	1	54	2	2"	PM	40°F	15.7	300	N	208/3	23	1000#	A,B,C,D	L2:31					
RTU-6	CLASSROOM	3	1100	0.5	1	1/2	DIR	80	65	35.6	29.5	---	---	105°F	SCROLL	11.7	1	VAR	1/3	1	54	2	2"	PM	40°F	15.7	300	N	208/3	23	1000#	A,B,C,D	L2:37					
RTU-7	CORRIDOR	3	1000	0.6	1	1/2	DIR	80	65	34.3	25.5	---	---	105°F	SCROLL	11.7	1	VAR	1/3	1	54	2	2"	PM	40°F	15.7	200	N	208/3	23	1000#	A,B,C,D	L2:32					
RTU-8	CORRIDOR-RESTROOMS	4	1600	0.6	1	1	DIR	80	65	45.0	37.8	---	---	105°F	SCROLL	16.1	1	VAR	1/3	1	90	2	2"	PM	40°F	15.7	250	N	208/3	30	1100#	A,B,C,D	L3:31					
RTU-9	MUSIC	5	1800	0.5	1	1	DIR	80	65	54.5	45.4	---	---	105°F	SCROLL	16.9	1	VAR	1/3	1	90	2	2"	PM	40°F	14.5	400	N	208/3	31	1100#	A,B,C,D	L3:37					
RTU-10	LOCKER-CORRIDOR	5	1900	0.6	1	1	DIR	80	65	54.3	45.6	---	---	105°F	SCROLL	16.9	1	VAR	1/3	1	90	2	2"	PM	40°F	14.5	350	N	208/3	31	1100#	A,B,C,D	L3:13					
RTU-11	CLASSROOM	5	1800	0.6	1	1	DIR	80	65	54.5	45.4	---	---	105°F	SCROLL	16.9	1	VAR	1/3	1	90	2	2"	PM	40°F	14.5	400	N	208/3	31	1100#	A,B,C,D	L3:19					

① BASED ON AAO MODEL PACKAGED GAS/ELECTRIC ROOFTOP UNIT WITH HAIL GUARDS, ECONOMIZER W/ BAROMETRIC RELIEF, HINGED FILTER ACCESS DOORS, AND ACCESSORIES AS NOTED ON SCHEDULE.

OPTIONS/ACCESSORIES	
A	DIGITAL SCROLL OR VARIABLE SPEED COMPRESSOR
B	MODULATING HOT GAS REHEAT
C	ROOF CURB
D	TERMINAL STRIP FOR DDC CONNECTION

GRILLE & REGISTER SCHEDULE

MARK	TYPE	MANUFACTURER BASED ON	MODEL	MATERIAL	FINISH	ACCESSORIES & REMARKS	O.D.
A	SUPPLY DIFFUSER	TITUS	TDC-AA	X	X	24x24 LAY-IN	
B	SUPPLY REGISTER	TITUS	301-FL	X	X	SURFACE MOUNTED	
C	RETURN GRILLE	TITUS	350-FL	X	X	24x24 OR 24x12 LAY-IN	

GRILLE CALLOUT IN GRILLE AND REGISTER SCHEDULE — A-12x12 — GRILLE SIZE

— 600 (FD) — FIRE DAMPER

— 600 (FD) — CUBIC FEET OF AIR PER MINUTE

— GRILLE CALLOUT SYMBOL

— DIRECTION OF AIR FLOW

MINI-SPLIT SYSTEM SCHEDULE

INDOOR UNIT				OUTDOOR UNIT				ELECT.	INDOOR UNIT LOCATION	OUTDOOR UNIT LOCATION	REMARKS	ELECT. REF.	
MARK	CFM	MCA	CAPACITY MBH	MARK	MBH	OA TEMP	MIN. SEER						
MSS-1	335	---	11.1	MHP-1	14.0	105°F	19	12.3	208/19	E123	ROOF	①	SPARE

① BASED ON LG LC127HV4 HEAT PUMP SPLIT SYSTEM W/ LUU127HV OUTDOOR UNIT AND LCN127HV4 INDOOR 2'x2' 4-WAY CEILING CASSETTE, LOW AMBIENT TO -4°F, INVERTER COMPRESSOR, HAIL GUARDS, AND INTERNAL CONDENSATE LIFT. CAPACITIES BASED ON ARI CONDITIONS.

UNIT HEATER SCHEDULE - ELECTRIC

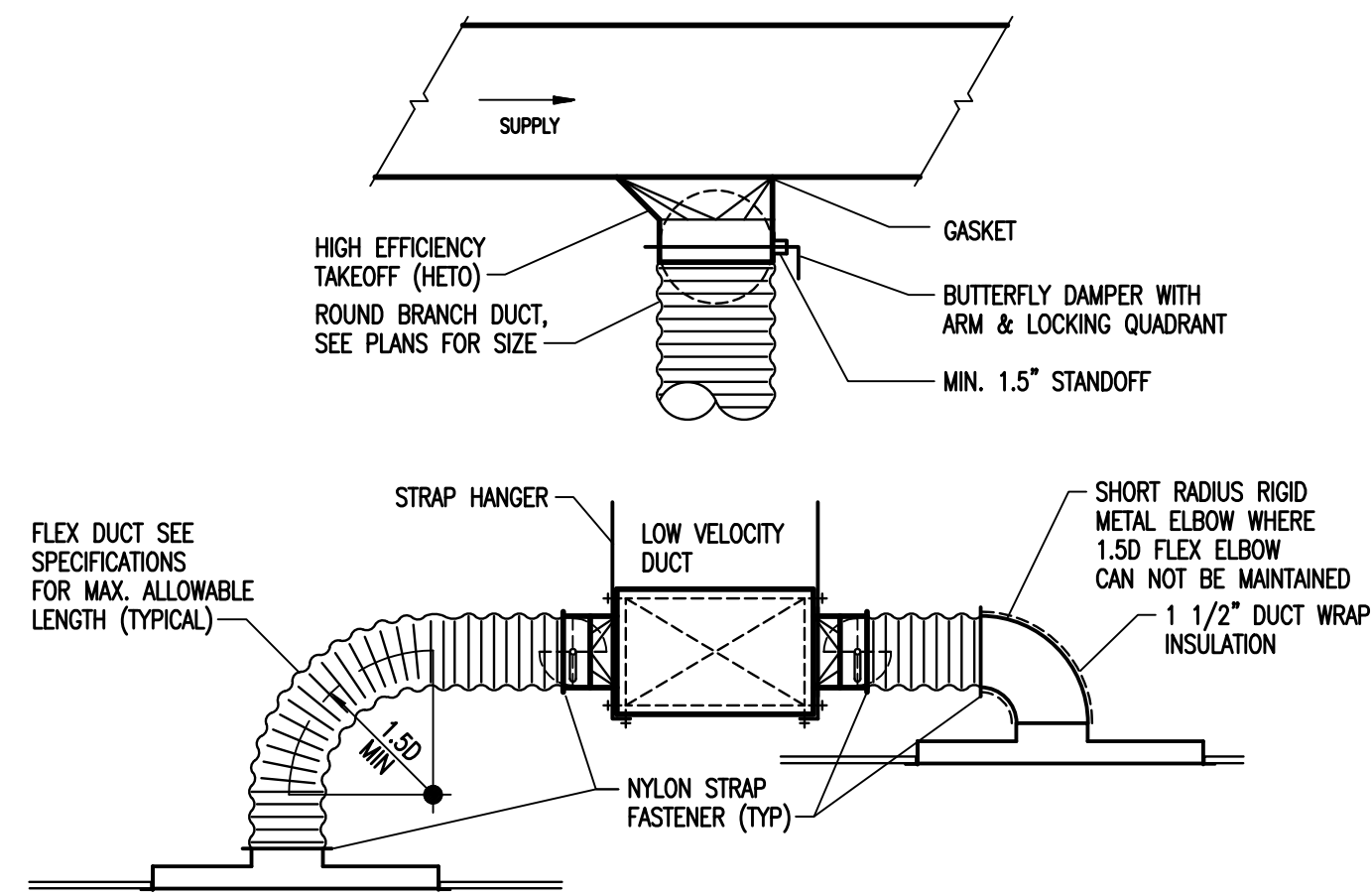
MARK	LOC. AT ROOM	TYPE	FAN CFM	HEATING CAPACITY KW	BTUH	HP	RPM	SYSTEM	REMARKS	ELECT. REF.
EUH-1	E122-VEST	CEIL.	175	4.0	13,600	---	700	208/1	①	SPARE

① BASED ON MARKEL F3386D-RP CEILING ELECTRIC UNIT HEATER WITH WALL T-STAT, DISCONNECT SWITCH, AND T-BAR MOUNT KIT.

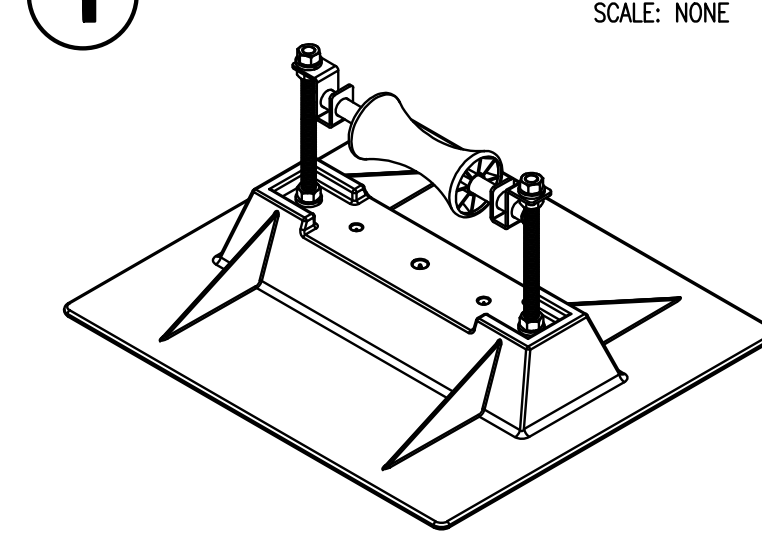
PLUMBING FIXTURE SCHEDULE

F.P. NO.	FIXTURE	WATER		WASTE		VENT	REMARKS
		COLD RUNOUT	HOT CONN.	RUNOUT	CONN.		
P-1	SINK	1/2"	3/8"	---	---	2" 1-1/2"	ADA ACCESSIBLE

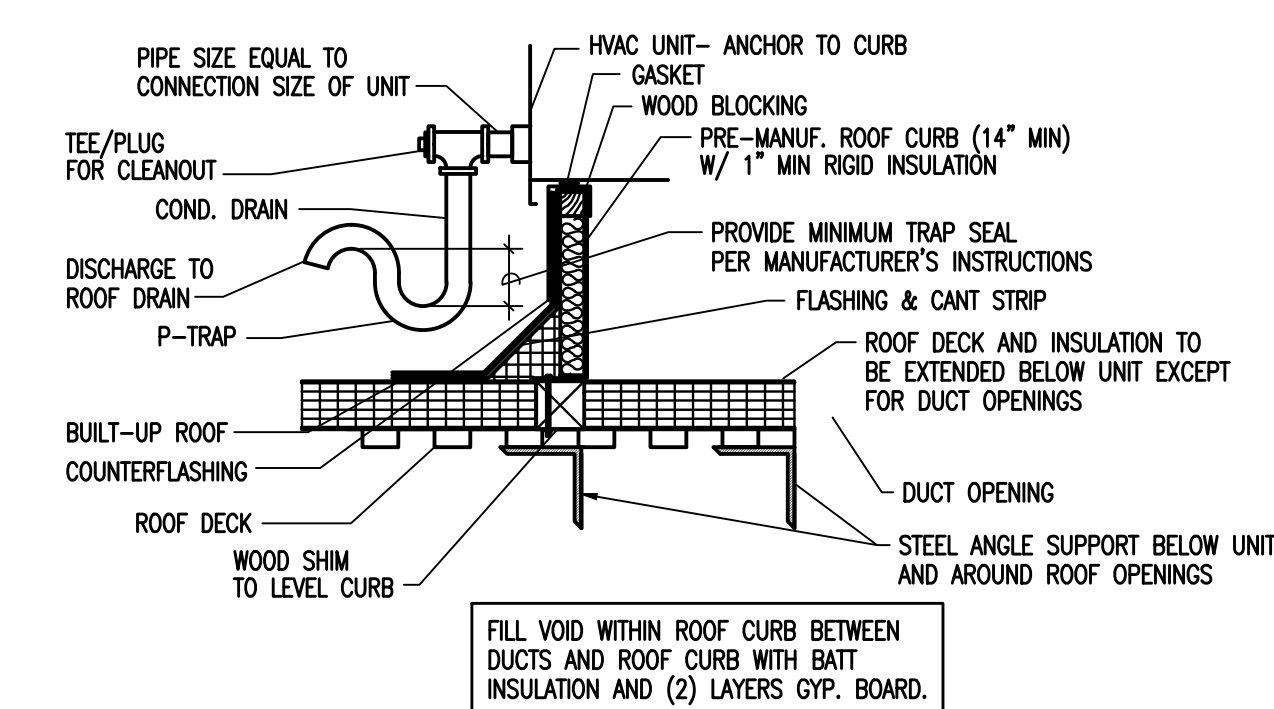
P3.1: Sink: Elkay LR2219 22"x 19-1/2"x 7-5/8" deep single compartment self-rimming 18 gauge stainless steel sink with three hole drilling and center drain - Delta 27C2934 two handle faucet with gooseneck swing spout - chrome plated supplies with loose key quarter-turn stops - 1-1/2" chrome plated cast brass P-trap - LK-35 basket strainer with tailpiece.



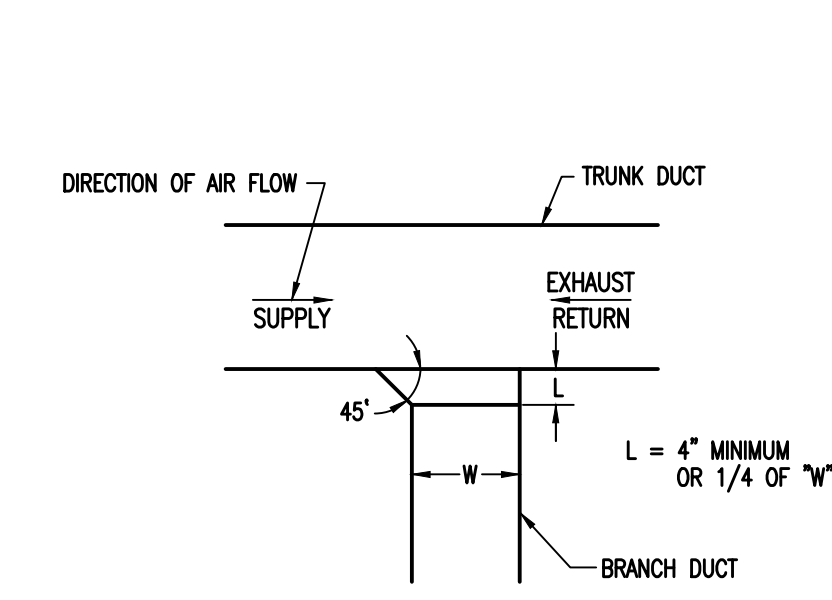
1 DIFFUSER INSTALLATION DETAIL
SCALE: NONE



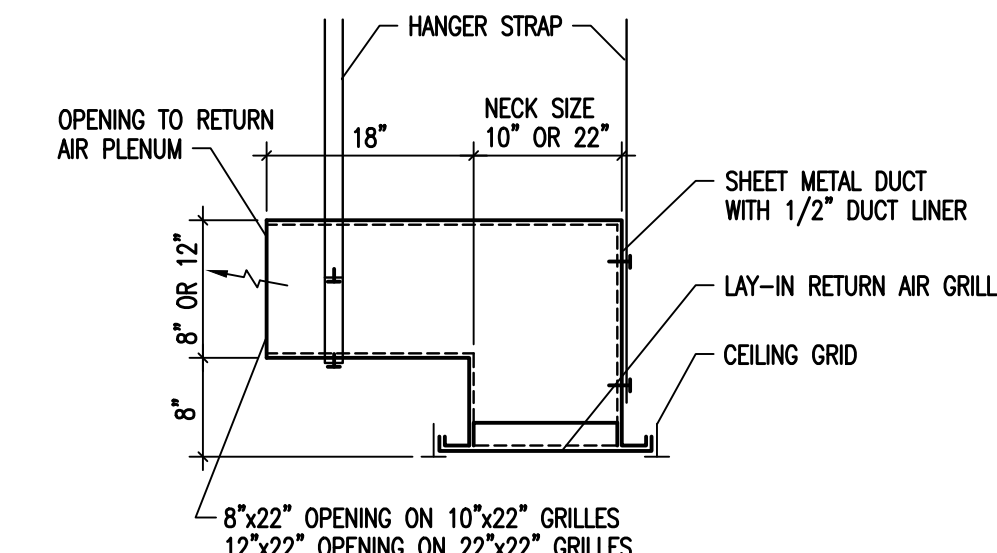
2 PIPE SUPPORT DETAIL - GAS
SCALE: NONE



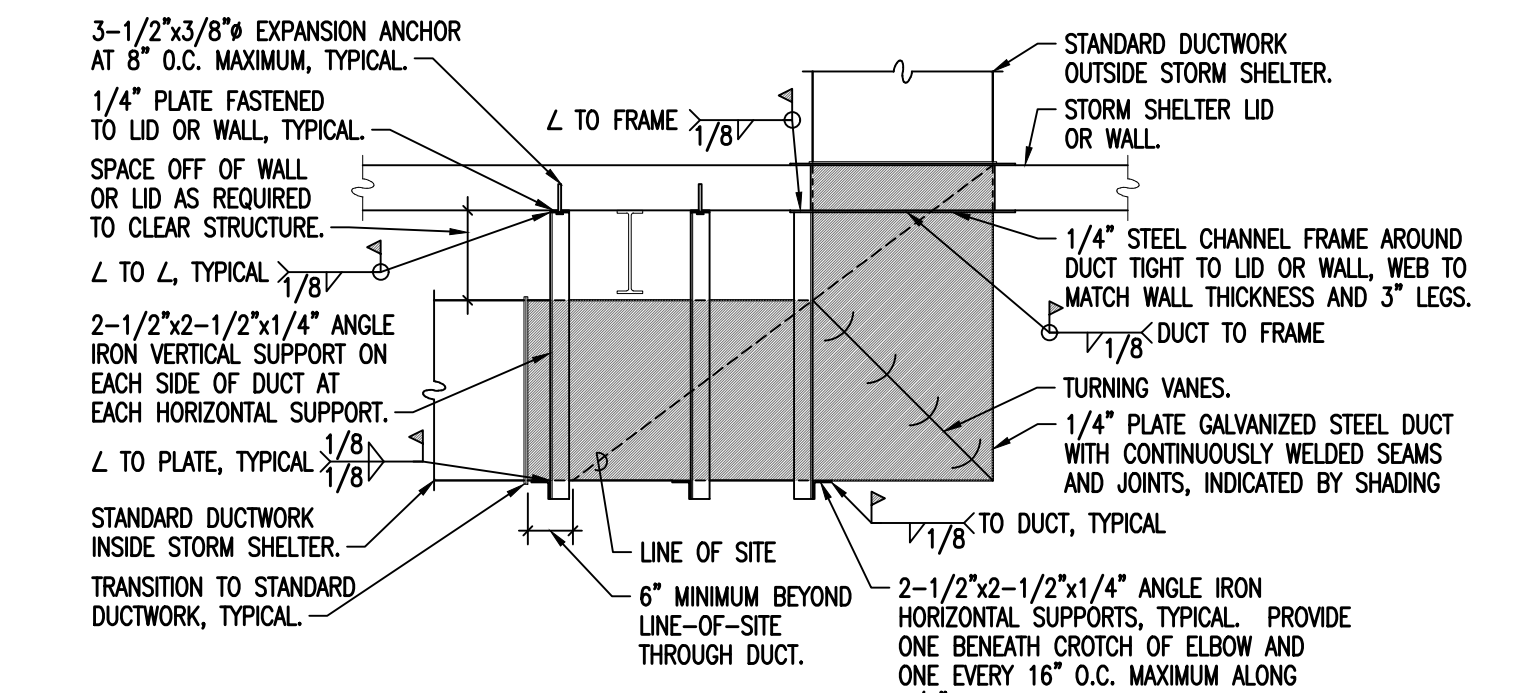
3 ROOF CURB DETAIL
SCALE: NONE



4 LOW VELOCITY BRANCH CONNECTION DETAIL
SCALE: NONE

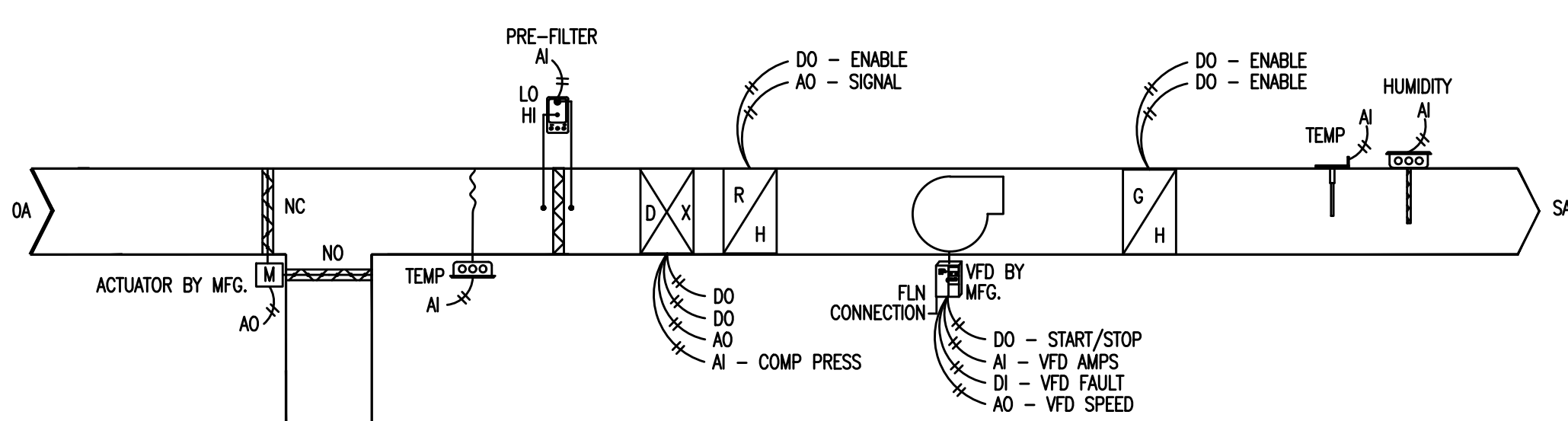


5 RETURN GRILLE SOUND BOOT DETAIL
SCALE: NONE



- NOTES:
- APPLICABLE TO DUCTS WITH EITHER INSIDE CLEAR DIMENSION GREATER THAN 16". SEE PLANS FOR INSIDE CLEAR DUCT DIMENSIONS.
 - COORDINATE EXACT OPENING LOCATION AND SIZE WITH THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF LID OR WALL.
 - INSULATE DUCTWORK PER THE SPECIFICATIONS. EXTERNAL INSULATION SHALL BE BUTTED AND SEALED TO STORM SHELTER ENVELOPE.
 - ALL GALVANIZING DAMAGED BY WELDING SHALL BE REPAIRED.
 - PROVIDE STANDARD DUCT HANGERS AS REQUIRED FOR SUPPORT OF ASSEMBLY AT WALL APPLICATIONS.

6 STORM SHELTER DUCT PENETRATION DETAIL - LARGER THAN 16"x16"
SCALE: NONE



Rooftop Unit:

NOTE: DDC Controls shall be T.A.C. by C&C Controls, Wichita, KS, to match existing system in the building.

During the occupied mode, as determined by the Time-of-Day schedule, the supply fan is to run continuously and the outside air damper shall be opened to the minimum position. DX cooling and gas heating stage or modulate per schedule to maintain a room temperature setpoint of 75°F cooling or 70°F heating (adj.).

Heating/cooling switchover shall occur when the space temperature rises 1°F (adj.) above the cooling setpoint for a pre-determined time period of ten minutes (adj.). Cooling/heating switchover will occur when the space temperature falls 1°F (adj.) below setpoint for a pre-determined time period of ten minutes (adj.).

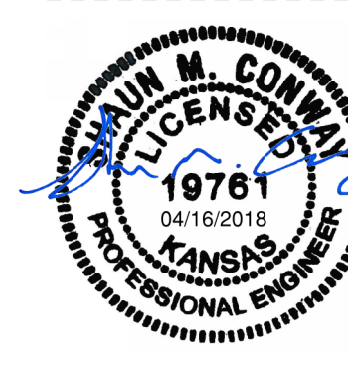
Economizer Mode:
If the outside air enthalpy falls below the economizer setpoint of 22 BTU/LB and the outside air temperature is less than 55°F (adj.), the unit shall disable cooling operation and modulate the mixed air damper to maintain the room temperature setpoint (adj.). If the discharge temperature falls below setpoint during economizer operation, the mixed air damper shall modulate to minimum position (adj.). Unit shall continue to utilize economizer until return air enthalpy becomes greater than outside air enthalpy.

Minimum Outside Air Ventilation:
Minimum occupied outside air shall be per the Rooftop Unit Schedule. RTU outside air damper minimum position shall be set by TAB Contractor.

Dehumidification Mode:
During the occupied, cooling mode, dehumidification will occur when the room air is above 55% RH (adj.). During dehumidification, cooling is modulated, and the hot gas reheat coil is enabled and modulated to discharge room neutral air. Cooling signal shall modulate to maintain suction pressure setpoint (adj.) until room humidity falls back to setpoint.

Unoccupied Mode:
During the unoccupied mode, as determined by the Time-of-Day schedule, the supply fan is disabled, cooling and heating control is shutdown, and outside air dampers are closed. If the space temperature drifts outside the range of the night setback temperature setpoints, cooling/heating and fan shall be enabled. Night setback settings shall be 80°F and 65°F for cooling and heating, respectively. An override button located on the space temperature sensor may be depressed to allow the unit to operate in the occupied mode for a two hour time period (adj.).

A RTU SYSTEM CONTROL
NO SCALE



2017-21



SAFETY AND SECURITY UPGRADES TO WILEY ELEMENTARY, HOLCOMB ELEMENTARY & HOLCOMB MIDDLE SCHOOL
 HOLCOMB, KANSAS

PROFESSIONAL ENGINEERING CONSULTANTS P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2891 www.pec.com



SHEET TITLE:
 MECHANICAL DETAILS AND SCHEDULES

DATE:
 April 16, 2018

M3.1

LIGHTING FIXTURE SCHEDULE (P.E.C.)

FIXT. LTR.	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	DESCRIPTION SEE NOTES	LAMP TYPE NO.	LENS/LOUVER/FINISH	REMARKS	W	L	D
D	EXISTING FIXTURE TO BE REMOVED										
E	EXISTING FIXTURE TO REMAIN										
HA	HALO COMM P0610-ED10-P06B835-61WH	LITHONIA LDN6-35/10-LOGAR	PRESCOLITE LF6LEDG4-6LFLED5G435K		6" LED DWNLT	1000LM 3500K 80CRI	SEMI-CLEAR		.5		
HB	HALO COMM P0615-ED10-P06B835-61WH	LITHONIA LDN6-35/15-LOGAR	PRESCOLITE LF6LEDG4-6LFLED6G435K		6" LED DWNLT	1500LM 3500K 80CRI	SEMI-CLEAR		.5		
HBE	HALO COMM P0615-ED10-P06B835-61WH	LITHONIA LDN6-35/15-LOGAR	PRESCOLITE LF6LEDG4-6LFLED6G435K		6" LED DWNLT	1500LM 3500K 80CRI	SEMI-CLEAR		.5		
PROVIDE WITH REMOTE 90-MIN EMERGENCY BATTERY											
K2	WILLIAMS PT-24-L38/835-RA-DIM	LITHONIA ZBL14-40L-ADP-E71-LP835	COLUMBIA LCAT24-35VWG-EDU		2X4 LAY-IN	3000LM 3500K 85CRI	ACRYLIC		2.0	4.0	
K2E	WILLIAMS PT-24-L38/835-RA-DIM	LITHONIA ZBL14-40L-ADP-E71-LP835	COLUMBIA LCAT24-35VWG-EDU		2X4 LAY-IN	3000LM 3500K 85CRI	ACRYLIC		2.0	4.0	
PROVIDE WITH 90-MIN EMERGENCY BATTERY											
K3	WILLIAMS PT-24-L38/835-RA-DIM	LITHONIA ZBL14-40L-ADP-E71-LP835	COLUMBIA LCAT24-35LWG-EDU	CREE ZR24M-40L-35K-10V-DF	2X4 LAY-IN	4000LM 3500K 85CRI	ACRYLIC		2.0	4.0	
K3E	WILLIAMS PT-24-L38/835-RA-DIM	LITHONIA ZBL14-40L-ADP-E71-LP835	COLUMBIA LCAT24-35LWG-EDU	CREE ZR24M-40L-35K-10V-DF	2X4 LAY-IN	4000LM 3500K 85CRI	ACRYLIC		2.0	4.0	
PROVIDE WITH 90-MIN EMERGENCY BATTERY											
K4	WILLIAMS PT-24-L49/835-RA-DIM	LITHONIA ZBL14-40L-ADP-E71-LP835	COLUMBIA LCAT24-35MLG-EDU		2X4 LAY-IN	5000LM 3500K 85CRI	ACRYLIC		2.0	4.0	
K4E	WILLIAMS PT-24-L49/835-RA-DIM	LITHONIA ZBL14-40L-ADP-E71-LP835	COLUMBIA LCAT24-35MLG-EDU		2X4 LAY-IN	5000LM 3500K 85CRI	ACRYLIC		2.0	4.0	
PROVIDE WITH 90-MIN EMERGENCY BATTERY											
KA	METALUX ZXCZ-LD4-29-UNV-L835-C011	LITHONIA ZBL12-33L-ADP-E71-LP835	COLUMBIA LCAT22-35MLG-EDU	CREE ZR22-32L-35K-10V	2X2 LAY-IN	2900LM 3500K 85CRI	ACRYLIC		2.0	2.0	
KAE	METALUX ZXCZ-LD4-29-UNV-L835-C011	LITHONIA ZBL12-33L-ADP-E71-LP835	COLUMBIA LCAT22-35MLG-EDU	CREE ZR22-32L-35K-10V	2X2 LAY-IN	2900LM 3500K 85CRI	ACRYLIC		2.0	2.0	
PROVIDE WITH 90-MIN EMERGENCY BATTERY											
N4	WILLIAMS 75-4-L38/835-A12125-DIM-UN	LITHONIA ZLN-146-3000LM-FST-MOULT			4" STRIP	3800LM 3500K 80CRI	ACRYLIC		0.2	4.0	0.3
N4E	WILLIAMS 75-4-L38/835-A12125-DIM-UN	LITHONIA ZLN-146-3000LM-FST-MOULT			4" STRIP	3800LM 3500K 80CRI	ACRYLIC		0.2	4.0	0.3
PROVIDE WITH 90-MIN EMERGENCY BATTERY											
RB	RAB LIGHTING SLIM26N	LUMARK XOTR38-W-BZ			WALL PACK	2,493LM, 4000K, 82CR	BRONZE				
X1	DUAL LITE LXURW	PRESCOLITE PEXL-3R-W	LITHONIA LQM-S-1-R	SPL CLP-AC-U-R-B-W	1 FACE/AC EXIT	LED	POLYCARBONATE		.167	1.1	.7
X2	DUAL LITE LXURW	PRESCOLITE PEXL-3R-W	LITHONIA LQM-S-2-R	SPL CLP-AC-U-R-B-W	2 FACE/AC EXIT	LED	POLYCARBONATE		.167	1.1	.7
XA	DUAL LITE LXURWE	PRESCOLITE PEXL-3R-EN-W	LITHONIA LQM-S-1-R-EL-N	SPL CLP-EM-U-R-B-W	1 FACE/EM EXIT	LED	POLYCARBONATE		.167	1.1	.7

- GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR WILL COORDINATE.
- MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.
- LIGHT FIXTURE SELECTIONS ARE BASED ON THE MANUFACTURER IN THE LEFT MOST COLUMN AS LISTED IN THE SCHEDULE. FIXTURES APPROVED AS EQUALS IN THIS SCHEDULE OR BY ADDENDUM SHALL BE EQUAL TO THE UNIT SPECIFIED IN THE LEFT MOST COLUMN, IE: SPRING LOADED LATCHES, POST PAINTED FINISH, AND PHOTOMETRICS.
- ALL LIGHT FIXTURES SHALL BE SECURED TO THE CEILING FRAMING SYSTEM BY MECHANICAL MEANS (SUCH AS BOLTS, SCREWS, OR RIVETS) OR BY CLIPS IDENTIFIED FOR USE WITH THE TYPE OF CEILING FRAMING MEMBER AND LIGHT FIXTURE.
- NOT USED.
- PROVIDE ARROWS AND FACES AS INDICATED ON THE DRAWINGS.
- TO COMPLY WITH NEC SECTION 410.130(G), ALL EXISTING OR RELOCATED FLUORESCENT LIGHT FIXTURES WITHOUT A BALLAST DISCONNECTING MEANS SHALL HAVE A BALLAST DISCONNECTING MEANS PROVIDED AND INSTALLED UNDER ANY OF THE FOLLOWING CONDITIONS:
 - WHEN AN EXISTING BALLAST IS REPLACED.
 - WHEN AN EXISTING LIGHT FIXTURE IS RELOCATED.
 - WHEN AN EXISTING LIGHT FIXTURE IS RE-CIRCUITED.
- LIGHT FIXTURES SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS. DRIVERS SHALL BE CAPABLE OF DIMMING TO A MINIMUM OF 10% OF TOTAL LIGHT OUTPUT. LED DRIVERS SHALL HAVE A DISCONNECTING MEANS MEETING THE REQUIREMENTS OF NEC SECTION 410.130(G), EXCEPT FOR THOSE INSTALLED IN CORD-AND-PLUG CONNECTED FIXTURES. WHERE APPLICABLE, WHEN DIMMING SWITCHES ARE NOT PROVIDED AS PART OF THE DESIGN, CONTRACTOR SHALL CAP OFF 0-10V DIMMING WIRES FOR FUTURE EXTENSION BY OWNER.

GENERAL NOTES

- FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF A HVAC DIFFUSER (SUPPLY OR RETURN), IN A DIRECT AIR FLOW, WITHIN 36" OF A SPRINKLER HEAD, OR WITHIN 36" OF THE TIP OF A CEILING FAN BLADE. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTER LINE OF THE DOOR AND A MAXIMUM OF 5 FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR IS THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".
- LABEL REMOTE ALARM INDICATOR FOR DUCT MOUNTED SMOKE DETECTORS (IE: RTU-1 SUPPLY, RTU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED IN THE AREA BETWEEN 6 AND 10 DUCT EQUIVALENT DIAMETERS OF STRAIGHT, UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRST INLET OR OUTLET DOWNSTREAM OF THE DAMPER.
- FAN SHUTDOWN RELAY WIRING SHALL BE LOCATED WITHIN 3 FEET OF THE FAN CONTROLS AND THE WIRING TO THE RELAY SHALL BE MONITORED.
- PROVIDE 120V POWER AND FUSTAT FOR EACH FIRE/SMOKE DAMPER. INTERLOCK WITH FIRE ALARM CONTROL PANEL TO CLOSE FIRE/SMOKE DAMPER UPON ANY ALARM AT THE FIRE ALARM CONTROL PANEL AND TO SHUTDOWN ASSOCIATED MECHANICAL UNIT.
- EACH DATA, TELEPHONE, VIDEO, OR OTHER SYSTEMS OUTLET REQUIRES 1"C. WITH PULL ROPE STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED ON PLANS. CONDUITS STUBBED UP ABOVE CEILINGS SHALL BE TURNED OUT 90". PROVIDE INSULATED BUSHINGS ON ALL CONDUITS. LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (IE: TELEPHONE, DATA, ETC.).

PEN WEIGHT LEGEND

SYMBOL	DESCRIPTION
	ALL DEVICES, LIGHT FIXTURES, ETC., DRAWN IN DARK SOLID LINES ARE NEW TO BE INSTALLED.
	NEW DUPLEX GROUNDED RECEPTACLE
	NEW LIGHT FIXTURE
	ALL DEVICES, LIGHT FIXTURES, ETC., DRAWN IN LIGHT SOLID LINES ARE EXISTING TO REMAIN.
	EXISTING DUPLEX GROUNDED RECEPTACLE TO REMAIN
	EXISTING LIGHT FIXTURE TO REMAIN
	ALL DEVICES, LIGHT FIXTURES, ETC., DRAWN IN DARK DASHED LINES ARE TO BE REMOVED.
	DUPLEX GROUNDED RECEPTACLE TO BE REMOVED
	LIGHT FIXTURE TO BE REMOVED

SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
	FLUSH, WALL-MOUNTED TELEVISION BOX EQUAL TO FSR #PWB-250 OR PRE APPROVED EQUAL WITH (1) 20A., 125V., DUPLEX RECEPTACLE AND PROVISIONS FOR: (1) DATA JACK IN A 2-PORT MODULE, (1) HDMI, AND (1) USB VIA (2) 1-1/2" CONDUITS WITH PULL ROPES TO ABOVE ACCESSIBLE CEILING. BOX TO BE 5'-0" AFF TO CENTER, VERIFY MOUNTING HEIGHT WITH OWNER.

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).
- REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
- REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
- E.C. SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
- COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
- ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
- CONDUIT RUN W/CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250.122. CONDUIT SIZE AS REQUIRED.
- WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
- "CT" INDICATED ADJACENT TO DEVICE INDICATES DEVICE MOUNTED ABOVE BACKSPASH OF COUNTER TOP. VERIFY EXACT HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
- LABEL THE FRONT OF EACH RECEPTACLE COVERPLATE WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING CLEAR THERMAL TRANSFER (ELECTRONIC DYMO) LABELS WITH 1/8" HIGH BLACK LETTERS (OR CONTRASTING COLOR IF PLATES ARE BLACK OR BROWN). LABELS SHALL BE SUITABLE FOR INDOOR/OUTDOOR USE. LABEL THE BACK OF EACH LIGHT SWITCH COVERPLATE WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING A FINE BLACK PERMANENT MARKER.
- JUNCTION BOX OR RECEPTACLE FOR DRINKING FOUNTAINS SHALL BE LOCATED BEHIND THE EQUIPMENT SKIRT UNLESS OTHERWISE NOTED. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT PROVIDED.
- PROVIDE 18" LONG (MIN.) CONDUIT SLEEVES THRU ALL WALLS WHERE CABLES ARE INDICATED OR REQUIRED TO PASS THRU WALLS. PROVIDE BUSHINGS ON BOTH ENDS. SIZE CONDUIT FOR CABLES INSTALLED. AT CABLE TRAYS, PROVIDE ONE 4" CONDUIT SLEEVE FOR EACH 4" WIDTH OF CABLE TRAY. MAXIMUMS SHALL BE:
 - 1"C. = 10 CABLES
 - 2 1/2"C. = 20 CABLES
 - 3"C. = 30 CABLES
 - 4"C. = 50 CABLES
- NOT USED.
- PROVIDE DIMMER PER THE SPECIFICATIONS. COORDINATE DIMMER TYPE AND WIRING WITH ASSOCIATED LIGHT FIXTURE DIMMING REQUIREMENTS (IE. 3-WIRE, 0-10V, ELECTRONIC OR MAGNETIC LOW-VOLTAGE, ETC.) OR WITH LIGHTING CONTROL SYSTEM PROPRIETARY REQUIREMENTS (IE. LUTRON, nLIGHT, DALI, ETC.) AS NECESSARY. 3-WIRE DIMMERS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL FOR EACH CONTROL ZONE. 0-10V DIMMERS SHALL BE PROVIDED WITH DIM/ON/OFF CONTROL. COORDINATE PHASE CONTROL OF LED DRIVERS (IE. REVERSE PHASE, FORWARD PHASE, ETC.) WITH LIGHT FIXTURE MANUFACTURER'S RECOMMENDATIONS. LOW-VOLTAGE CONTROL WIRING IS NOT SHOWN ON PLANS FOR CLARITY, BUT SHALL BE PROVIDED AS REQUIRED.

ELECTRICAL SHEET INDEX

SHEET NO.	DESCRIPTION
EO.1	ELECTRICAL LEAD SHEET
EO.2	ELECTRICAL SCHEDULES
E1.1	ELECTRICAL DETAILS
E2.1	ELEMENTARY SCHOOL DEMOLITION PLAN
E2.2	ELEMENTARY SCHOOL DEMOLITION PLAN - OFFICE AREA
E2.3	HOLCOMB MIDDLE SCHOOL AND WILEY ELEMENTARY DEMOLITION PLANS
E4.1	ELEMENTARY SCHOOL POWER PLAN
E4.2	HOLCOMB MIDDLE SCHOOL AND WILEY ELEMENTARY ELECTRICAL PLANS
E5.1	ELEMENTARY SCHOOL LIGHTING PLAN

SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
	LIGHT FIXTURE & FIXTURE LETTER	CEILING
	STRIP LIGHT FIXTURE & FIXTURE LETTER	CEILING
	LIGHT FIXTURE & FIXTURE LETTER	CEILING
	LIGHT FIXTURE & FIXTURE LETTER	WALL
	EXIT LIGHT (SHADING DENOTES EXIT FACE SIDE)	CEIL./WALL
	LIGHT FIXTURE & FIXTURE LETTER	WALL
	FIXTURE W/SHADED LAMP(S) ON EMERG. POWER	CEILING
	EMERGENCY BATTERY LIGHT FIXTURE	CEIL./WALL
	SWITCHES (1-POLE, 2-POLE, 3-WAY, 4-WAY)	46" AFF
	SWITCHES (KEYED, PILOT)	46" AFF
	INDICATES SWITCHING SCHEME	
	NIGHT LIGHT-WIRE AHEAD OF CONTROLS	
	LIGHT FIXTURE ON EMERGENCY POWER	
	WEATHERPROOF	
	SEE GENERAL NOTE 9	
	ABOVE FINISHED FLOOR	
	DRINKING FOUNTAIN	
	UNLESS OTHERWISE NOTED	
	DUPLEX GROUNDED RECEPTACLE	18" AFF
	CLG-MTD DUPLEX GROUNDED RECEPT.	CEILING MTD
	DOUBLE DUPLEX GROUNDED RECEPTACLE	18" AFF
	GROUND FAULT DUPLEX RECEPTACLE	18" AFF
	GROUND FAULT DOUBLE DUPLEX RECEPTACLE	18" AFF
	SPECIAL OUTLET (SEE SCHEDULE OR AS NOTED)	FLOOR/WALL
	SPECIAL DEVICE (AS NOTED)	
	JUNCTION BOX	
	FUSTAT BUSS #SSY	
	BRANCH CIRCUIT PANEL & PANEL DESIG.	72" TO TOP
	ELECTRICAL DISTRIBUTION EQUIPMENT	
	EQUIPMENT - SEE EQUIPMENT CONNECTION SCHEDULE	
	CONDUIT SLEEVE (GEN NOTE 12)	
	FEEDER DESIGNATION	
	EMERGENCY CIRCUIT	CEIL./WALL
	MASTER/SLAVE FIXTURE WHIP	CEILING
	CONDUIT HOME RUN, 1 CIRCUIT. 2#10 & 1#10 GRD. GEN. NOTE 7 & 8	CEIL./WALL
	CONDUIT RUN 2#12 & 1#12 GRD.-1/2"C.	CEIL./WALL
	CONDUIT RUN 2#12 & 1#12 GRD.-3/4"C.	EARTH/FLOOR
	CONDUIT HOME RUN, 1 CIRCUIT. 2#12 & 1#12 GRD. 1/2"C.	CEIL./WALL
	CONDUIT HOME RUN, 2 CIRCUITS. 4#12 & 1#12 GRD. 1/2"C.	CEIL./WALL
	CONDUIT HOME RUN, 3 CIRCUITS. 6#12 & 1#12 GRD. 1/2"C.	CEIL./WALL
	CONDUIT RUN PARTIAL CIRCUIT. 2#12 & 1#12 GRD. 1/2"C.	CEIL./WALL
	CONDUIT HOME RUN, 2 CIRCUITS	CEIL./WALL
	PHASE CONDUCTORS (#12 UON)	
	NEUTRAL CONDUCTOR (#12 UON)	
	SWITCH LEGS (#12 UON)	
	GROUND CONDUCTOR (#12 UON)	
	DUPLEX ISOLATED GROUND RECEPTACLE	18" AFF
	CEILING MOUNTED SPEAKER	CEILING
	CLOCK/SPEAKER (SYSTEM CLOCK)	WALL
	SYSTEM CLOCK (A=ANALOG, D=DIGITAL)	WALL
	CALL SWITCH	46" AFF
	FIRE ALARM CONTROL PANEL	WALL
	FIRE ALARM MANUAL STATION	46" AFF
	FIRE ALARM VISUAL SIGNAL	80" TO BOTTOM
	COMB. F.A. HORN & VISUAL SIGNAL	80" TO BOTTOM
	F.A. RELAY (GEN NOTE F3)	
	PHOTO ELECTRIC AREA SMOKE DETECTOR (GEN NOTE F1)	CEILING
	HEAT DETECTOR (GEN NOTE F1)	CEILING
	ELECTROMAGNETIC DOOR HOLDER	WALL
	COMB. F.A. HORN & VISUAL SIGNAL	CEILING
	CCTV CAMERA - PAN/TILT/ZOOM	CLG
	CCTV CAMERA - FIXED	WALL
	CCTV CAMERA - FIXED	CLG
	CARD READER	WALL
	SECURITY CORRIDOR MOTION DETECTOR	
	KEY PAD	
	1-DATA OUTLET & JACK (NOTE T1 & T3)	18" AFF
	1-DATA OUTLET & JACK (NOTE T1 & T3)	18" AFF
	1-VOICE/1-DATA OUTLET & JACKS (GEN NOTE T1 & T3)	18" AFF



2017-21



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**SAFETY AND SECURITY UPGRADES TO
WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
HOLCOMB MIDDLE SCHOOL**
HOLCOMB, KANSAS

SHEET TITLE:
ELECTRICAL SCHEDULES

DATE:
April 16, 2018

E0.2

PEC
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
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EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT CONNECTIONS														
UNIT DESIG.	UNIT VOLTAGE	LOAD			PANEL DEVICE			DEVICE AT UNIT			FEEDER DESCRIPTION OR SEE THE FEEDER SCHEDULE	REMARKS OR SEE THE INDICATED NOTES BELOW		
		H.P.	FLA	KVA	CIRCUIT NUMBER	BKR./SW./FUSE	NEMA START. SIZE	BKR./SW./FUSE	NEMA START. SIZE	OTHER				
RTU ROOF TOP UNIT														
1	208/3	11.7A	21.1	7.596	L1-26	30	3	30	25	3	NEMA-3R	1 3 #10 AWG THHN; #10 AWG GRD; 3/4" C.		
2	208/3	11.7A	21.1	7.596	L1-32	30	3	30	25	3	NEMA-3R	1 3 #10 AWG THHN; #10 AWG GRD; 3/4" C.		
3	208/3	11.7A	21.1	7.596	L1-38	30	3	30	25	3	NEMA-3R	1 3 #10 AWG THHN; #10 AWG GRD; 3/4" C.		
4	208/3	11.7A	21.1	7.596	L1-37	30	3	30	25	3	NEMA-3R	1 3 #10 AWG THHN; #10 AWG GRD; 3/4" C.		
5	208/3	11.7A	21.1	7.596	L2-31	30	3	30	25	3	NEMA-3R	1 3 #10 AWG THHN; #10 AWG GRD; 3/4" C.		
6	208/3	11.7A	21.1	7.596	L2-37	30	3	30	25	3	NEMA-3R	1 3 #10 AWG THHN; #10 AWG GRD; 3/4" C.		
7	208/3	11.7A	21.1	7.596	L2-32	30	3	30	25	3	NEMA-3R	1 3 #10 AWG THHN; #10 AWG GRD; 3/4" C.		
8	208/3	16.1A	27.2	9.792	L3-31	45	3	60	35	3	NEMA-3R	1 3 #6 AWG THHN; #10 AWG GRD; 1" C.		
9	208/3	16.9A	28.0	10.08	L3-37	45	3	60	40	3	NEMA-3R	1 3 #6 AWG THHN; #10 AWG GRD; 1" C.		
10	208/3	16.9A	28.0	10.08	L3-13	45	3	60	40	3	NEMA-3R	1 3 #6 AWG THHN; #10 AWG GRD; 1" C.		
11	208/3	16.9A	28.0	10.08	L3-19	45	3	60	40	3	NEMA-3R	1 3 #6 AWG THHN; #10 AWG GRD; 1" C.		
EUH ELECTRIC UNIT HEATER														
1	208/1		19.2	3.994		30		2			BY OTHERS	1 2 #10 AWG THHN; #10 AWG GRD; 1/2" C.		
MHP MINI-SPLIT SYSTEM (OUTDOOR UNIT)														
1	208/1	10A	10.0	2.080		20		2		30	15	2	NEMA-3R	1 2 #12 AWG THHN; #12 AWG GRD; 1/2" C.
MSS MINI-SPLIT SYSTEM (INDOOR UNIT)														
1	208/3		4.0	1.440	MHP-1	20		3		20	3	MMS	1 3 #12 AWG THHN; #12 AWG GRD; 1/2" C.	

- ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.
- REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.
- SIZE FUSES FOR MOTOR FUSTATS BASED ON 125% OF MANUFACTURER'S NAMEPLATE FULL LOAD AMPERAGE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- MINI-SPLIT SYSTEM: INDOOR UNIT IS FED FROM THE OUTDOOR UNIT, PROVIDE INTERCONNECTING WIRING AS REQUIRED. PROVIDE A 3-POLE MANUAL MOTOR STARTING SWITCH WITHOUT OVERLOADS FOR INDOOR LOCAL DISCONNECTING MEANS. PROVIDE WITH APPROPRIATE COVERPLATE. FIELD VERIFY ALL CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN WITH EQUIPMENT PROVIDED.
- CONNECT TO "SPARE" 20A., 2P., 208V. CIRCUIT BREAKER IN THE NEAREST AVAILABLE PANEL. IF A "SPARE" IS NOT AVAILABLE, CONTRACTOR TO PROVIDE AND INSTALL ONE OF THE SAME MANUFACTURER, TYPE, AND AIC RATING AS EXISTING BREAKERS IN AVAILABLE SPACES. UPDATE PANEL DIRECTORY AS NEEDED.

EXIST. PANEL: L3 208/120 VOLTS, 3 PHASE, 4 WIRE
225 AMP MLO, SURFACE MTD.
AIC LABELED

CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	P.	AMP SIZE	SIZE	AMP SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V. A.	CIRC NO.
1			EXISTING LOAD	1	20	A	20	EXISTING LOAD			2
3			EXISTING LOAD	1	20	B	20	EXISTING LOAD			4
5			EXISTING LOAD	1	20	C	20	EXISTING LOAD			6
7			EXISTING LOAD	1	20	A	20	EXISTING LOAD			8
9			EXISTING LOAD	1	20	B	20	EXISTING LOAD			10
11			EXISTING LOAD	1	20	C	20	EXISTING LOAD			12
13			EXISTING LOAD	1	20	A	20	EXISTING LOAD			14
15			EXISTING LOAD	1	20	B	20	EXISTING LOAD			16
17			EXISTING LOAD	1	20	C	20	EXISTING LOAD			18
19			EXISTING LOAD	1	20	A	20	EXISTING LOAD			20
21			EXISTING LOAD	1	20	B	20	EXISTING LOAD			22
23			EXISTING LOAD	1	20	C	20	EXISTING LOAD			24
25			EXISTING LOAD	1	20	A	20	EXISTING LOAD			26
27			EXISTING LOAD	1	20	B	20	EXISTING LOAD			28
29			EXISTING LOAD	1	20	C	20	EXISTING LOAD			30
31	7596	LW	RTU-5	3	30	A	30	RTU-7	LW	7596	32
33											34
35											36
37	7596	LW	RTU-6	3	30	A	20	ROOFTOP RECEPT.	RPT	800	38
39								ROOFTOP RECEPT.	RPT	600	40
41								SPACE			42

- PANELBOARD AND INDICATED BRANCH CIRCUITS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- CIRCUIT BREAKER MADE "SPARE" BY DEMOLITION WORK, BASED ON EXISTING PANELBOARD SCHEDULE. CONTRACTOR TO CONFIRM PRIOR TO REMOVAL OF LOAD.
- INSTALL CIRCUIT BREAKER IN SPACES MADE BY REMOVAL OF "SPARE" CIRCUIT BREAKERS. SPARE CIRCUIT BREAKERS TO BE SALVAGED AND USED AS REQUIRED AS PART OF THIS PROJECT. CIRCUIT BREAKERS PROVIDED SHALL MATCH MANUFACTURER, TYPE, AND AIC RATING OF EXISTING. UPDATE PANEL DIRECTORY AS REQUIRED.
- EXISTING LOAD RELOCATED FROM CIRCUIT SPACE #23. EXTEND AND REWORK CONDUIT AND CONDUCTORS AS NEEDED. SPARE BREAKER TO BE INSTALLED IN CIRCUIT SPACE #23. UPDATE PANEL SCHEDULE AS REQUIRED.

LIGHTING CONTROL DEVICES

SYMBOL	DESCRIPTION	MOUNTING
●	DUAL-TECH OCCUPANCY SENSOR: ACUITY CONTROLS #NCM-PDT-9-RJB.	CEILING
● _{ds}	DUAL-TECH OCCUPANCY SENSOR WITH AUTOMATIC DIMMING PHOTOCELL: ACUITY CONTROLS #NCM-PDT-9-ADCX-RJB.	CEILING
◎	PIR OCCUPANCY SENSOR: ACUITY CONTROLS #NCM-10-RJB.	CEILING
x ₁	SINGLE CHANNEL PUSHBUTTON ON/OFF SWITCH: ACUITY CONTROLS #NPODM. IF APPLICABLE, DEVICE TO CONTROL FIXTURES INDICATED AS "x".	46" AFF
x ₂	2-CHANNEL PUSHBUTTON ON/OFF SWITCH: ACUITY CONTROLS #NPODM-2P. DEVICE TO CONTROL FIXTURES INDICATED AS "x".	46" AFF
x ₃	SINGLE CHANNEL PUSHBUTTON DUAL TECH OCCUPANCY SENSOR: ACUITY CONTROLS #NWSX-PDT-LV. IF APPLICABLE, DEVICE TO CONTROL FIXTURES INDICATED AS "x".	46" AFF
x ₄	SINGLE CHANNEL PUSHBUTTON DIMMER SWITCH/DUAL TECH OCCUPANCY SENSOR: ACUITY CONTROLS #NWSX-PDT-LV-DX. IF APPLICABLE, DEVICE TO CONTROL FIXTURES INDICATED AS "x".	46" AFF
x ₁ □	SINGLE CHANNEL PUSHBUTTON DIMMER SWITCH: ACUITY CONTROLS #NPODM-DX. IF APPLICABLE, DEVICE TO CONTROL FIXTURES INDICATED AS "x".	46" AFF
x ₂ □	2-CHANNEL PUSHBUTTON DIMMER SWITCH: ACUITY CONTROLS #NPODM-2P-DX. DEVICE TO CONTROL FIXTURES INDICATED AS "x".	46" AFF
SP	SWITCHING POWER/RELAY PACK: ACUITY CONTROLS #NPP16.	N/A
SE	UL924-LISTED EMERGENCY SWITCHING POWER/RELAY PACK: ACUITY CONTROLS #NPP16-ER.	N/A
DE	DIMMING POWER/RELAY PACK: ACUITY CONTROLS #NPP16-D.	N/A
DE	UL924-LISTED EMERGENCY DIMMING POWER/RELAY PACK: ACUITY CONTROLS #NPP16-D-ER.	N/A

EQUALS TO THE ABOVE WILL BE ACCEPTED FROM WATTSTOPPER INC. "DLM" FAMILY.

EXIST. PANEL: L1 208/120 VOLTS, 3 PHASE, 4 WIRE
225 AMP MLO, SURFACE MTD.
AIC LABELED

CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	P.	AMP SIZE	SIZE	AMP SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V. A.	CIRC NO.
1			EXISTING LOAD	1	20	A	20	EXISTING LOAD			2
3			EXISTING LOAD	1	20	B	20	EXISTING LOAD			4
5			EXISTING LOAD	1	20	C	20	EXISTING LOAD			6
7			SPARE	1	20	A	20	SPARE	SPR		8
9			EXISTING LOAD	1	20	B	20	EXISTING LOAD	SPR		10
11			EXISTING LOAD	1	20	C	20	EXISTING LOAD			12
13			EXISTING LOAD	1	20	A	20	EXISTING LOAD			14
15			EXISTING LOAD	1	20	B	20	EXISTING LOAD			16
17			EXISTING LOAD	1	20	C	20	EXISTING LOAD			18
19			EXISTING LOAD	1	20	A	20	EXISTING LOAD			20
21			EXISTING LOAD	1	20	B	20	EXISTING LOAD			22
23			EXISTING LOAD	1	20	C	20	EXISTING LOAD			24
25			EXISTING LOAD	1	20	A	30	RTU-1	LW	7596	26
27			EXISTING LOAD	1	20	B					28
29			EXISTING LOAD	1	20	C					30
31			EXISTING LOAD	1	20	A	30	RTU-2	LW	7596	32
33			EXISTING LOAD	1	20	B					34
35			EXISTING LOAD	1	20	C					36
37	7596	LW	RTU-4	3	30	A	30	RTU-3	LW	7596	38
39											40
41											42

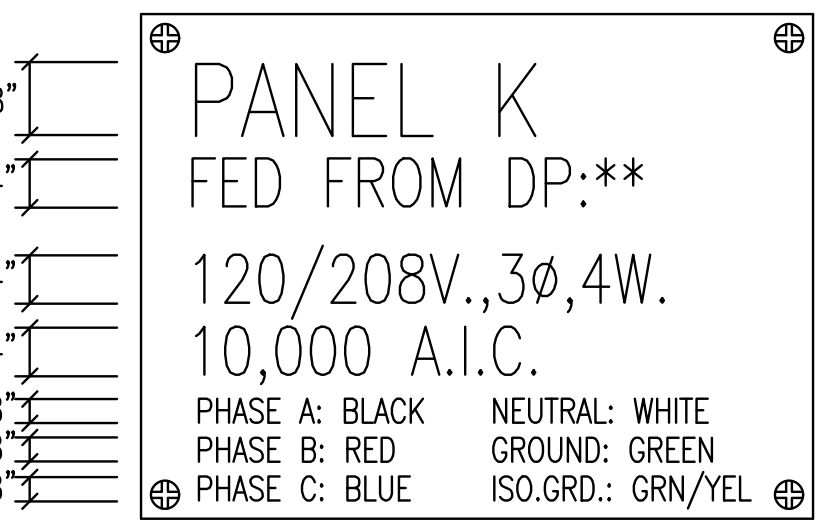
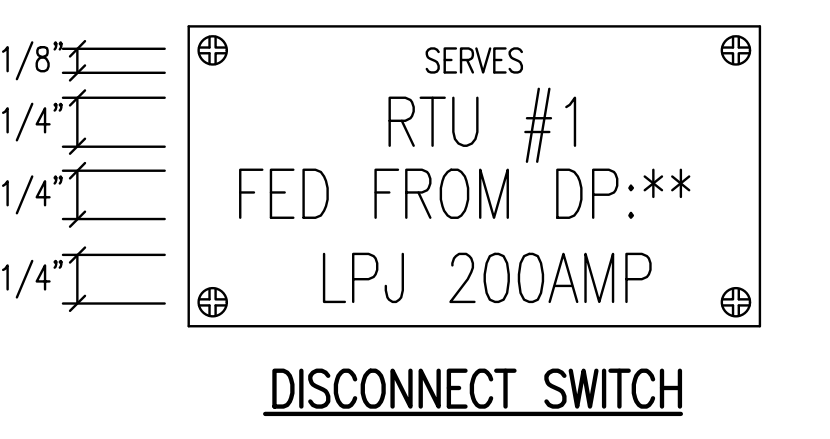
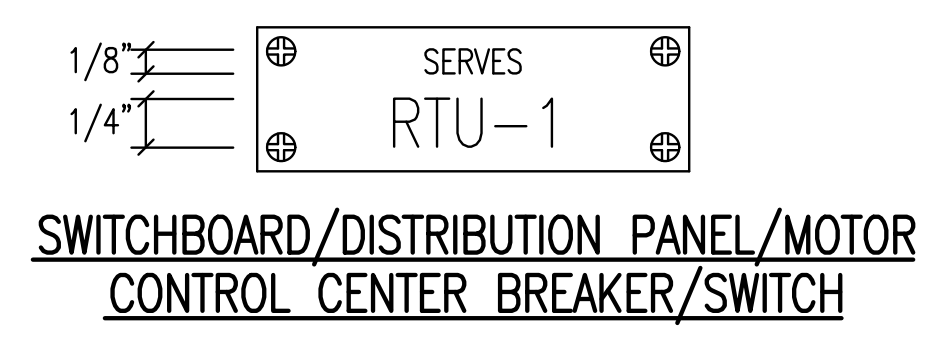
- PANELBOARD AND INDICATED BRANCH CIRCUITS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- BRANCH CIRCUITS INDICATED AS "SPARE" ARE BASED ON PANEL SCHEDULE. CONTRACTOR TO CONFIRM PRIOR TO BID.
- EXISTING LOAD RELOCATED FROM CIRCUIT SPACE #32. EXTEND AND REWORK CONDUIT AND CONDUCTORS AS NEEDED. UPDATE PANEL SCHEDULE AS REQUIRED.
- INSTALL CIRCUIT BREAKER IN SPACES MADE BY REMOVAL OF "SPARE" CIRCUIT BREAKERS. SPARE CIRCUIT BREAKERS TO BE SALVAGED AND USED AS REQUIRED AS PART OF THIS PROJECT. CIRCUIT BREAKERS PROVIDED SHALL MATCH MANUFACTURER, TYPE, AND AIC RATING OF EXISTING. UPDATE PANEL DIRECTORY AS REQUIRED.
- EXISTING LOAD RELOCATED FROM CIRCUIT SPACE #26. EXTEND AND REWORK CONDUIT AND CONDUCTORS AS NEEDED. UPDATE PANEL SCHEDULE AS REQUIRED.

EXIST. PANEL: C 208/120 VOLTS, 3 PHASE, 4 WIRE
175 AMP MAIN BKR, SURFACE MTD.
10000 AIC LABELED

CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	P.	AMP SIZE	SIZE	AMP SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V. A.	CIRC NO.
1			EXISTING LOAD	1	20	A	20	EXISTING LOAD			2
3			EXISTING LOAD	1	20	B	20	EXISTING LOAD			4
5			EXISTING LOAD	1	20	C	20	EXISTING LOAD			6
7			EXISTING LOAD	1	20	A	20	EXISTING LOAD			8
9			EXISTING LOAD	1	20	B	20	EXISTING LOAD			10
11			EXISTING LOAD	1	20	C	20	EXISTING LOAD			12
13			EXISTING LOAD	1	20	A	20	EXISTING LOAD			14
15			EXISTING LOAD	1	20	B	20	EXISTING LOAD			16
17			EXISTING LOAD	1	20	C	20	EXISTING LOAD			18
19			EXISTING LOAD	1	20	A	20	EXISTING LOAD			20
21			EXISTING LOAD	1	20	B	20	EXISTING LOAD			22
23			EXISTING LOAD	1	20	C	20	EXISTING LOAD			24
25			EXISTING LOAD	1	20	A	20	EXISTING LOAD			26
27			EXISTING LOAD	1	20	B	20	EXISTING LOAD			28
29			EXISTING LOAD	1	20	C	20	EXISTING LOAD			30
31			EXISTING LOAD	1	20	A	20	EXISTING LOAD			32
33			EXISTING LOAD	1	20	B	20	EXISTING LOAD			34
35			EXISTING LOAD	1	20	C	20	EXISTING LOAD			36
37			EXISTING LOAD	1	20	A	15	EXISTING LOAD			38
39			EXISTING LOAD	1	20	B					40
41			EXISTING LOAD	1	20	C	20	EXISTING LOAD			42
43			EXISTING LOAD	1	20	A	20	EXISTING LOAD			44
45			EXISTING LOAD	1	20	B	20	EXISTING LOAD			46
47			EXISTING LOAD	1	20	C	20	EXISTING LOAD			48
49	800	RPT	CT RECEPT. OFFICE	1	20	A	20	RECEPT. OFFICE	RPT	600	50
51	400	RPT	CT RECEPT. OFFICE	1	20	B	20	RECEPT. OFFICE	RPT	600	52
53	800	RPT	PA SYSTEM OFFICE	1	20	C	20	RECEPT. WAITING	RPT	600	54
55			SPACE			A		SPACE			56
57			SPACE			B		SPACE			58
59			SPACE			C		SPACE			60

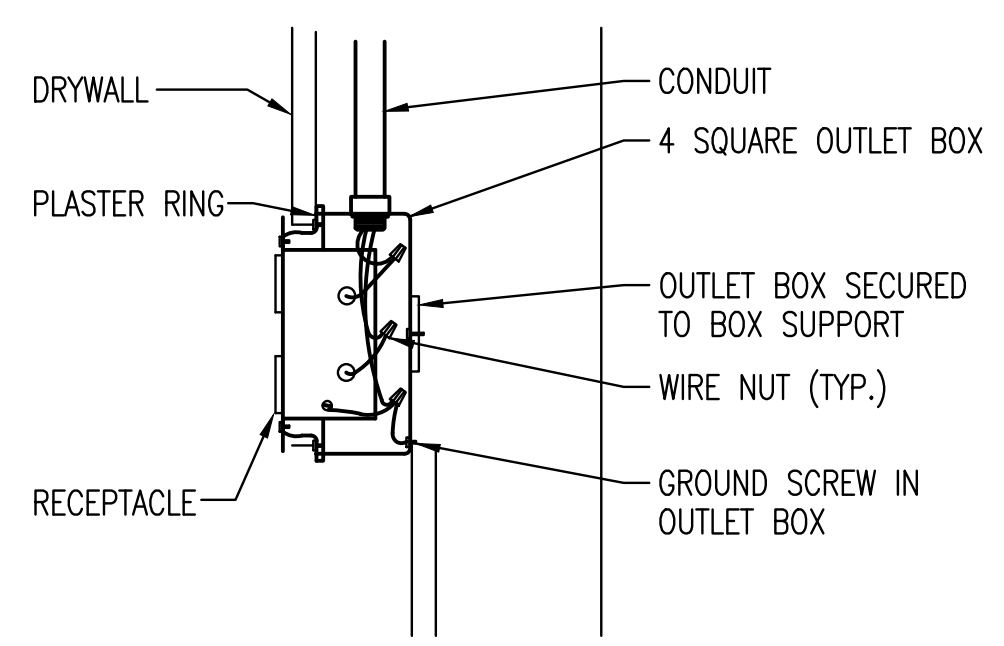
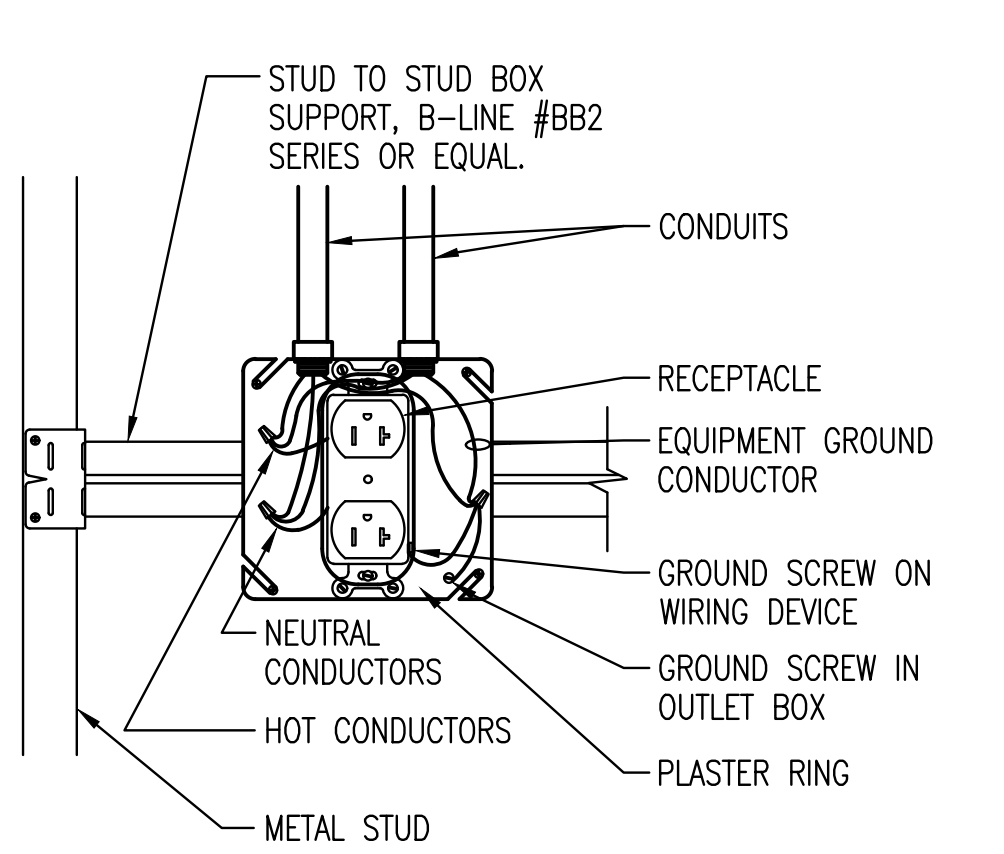
- PANELBOARD AND INDICATED BRANCH CIRCUITS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- BRANCH CIRCUITS INDICATED AS "SPARE" ARE BASED ON PANEL SCHEDULE. CONTRACTOR TO CONFIRM PRIOR TO BID.
- INSTALL PROPOSED CIRCUIT BREAKER IN EXISTING SPACE. DEVICE PROVIDED TO MATCH MANUFACTURER, TYPE, AND AIC RATING OF THOSE EXISTING. UPDATE PANEL DIRECTORY TO REFLECT CHANGES.

Saved 04-13-2018 11:42:22 AM by SW
Plot Scale 1:1 04-16-2018 10:29:31 AM by SMC
U:\Mech\1000\100098\100098\Drawings\100098-00-ED-2 ELECTRICAL SCHEDULES

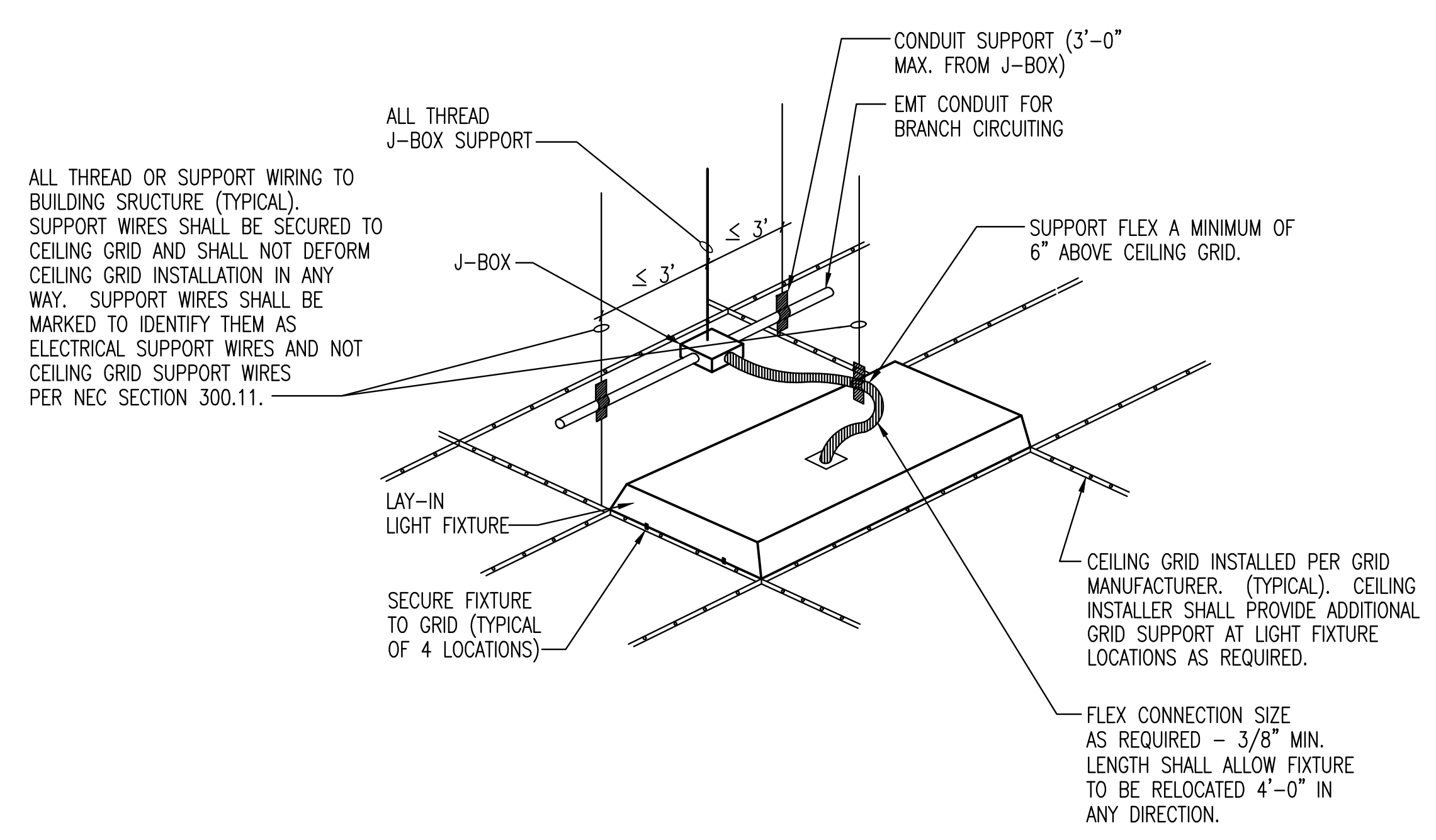


1 TYPICAL NAME PLATES
NO SCALE

NOTE: SEE SPECIFICATION SECTION 260500 FOR NAME PLATE COLOR REQUIREMENTS.



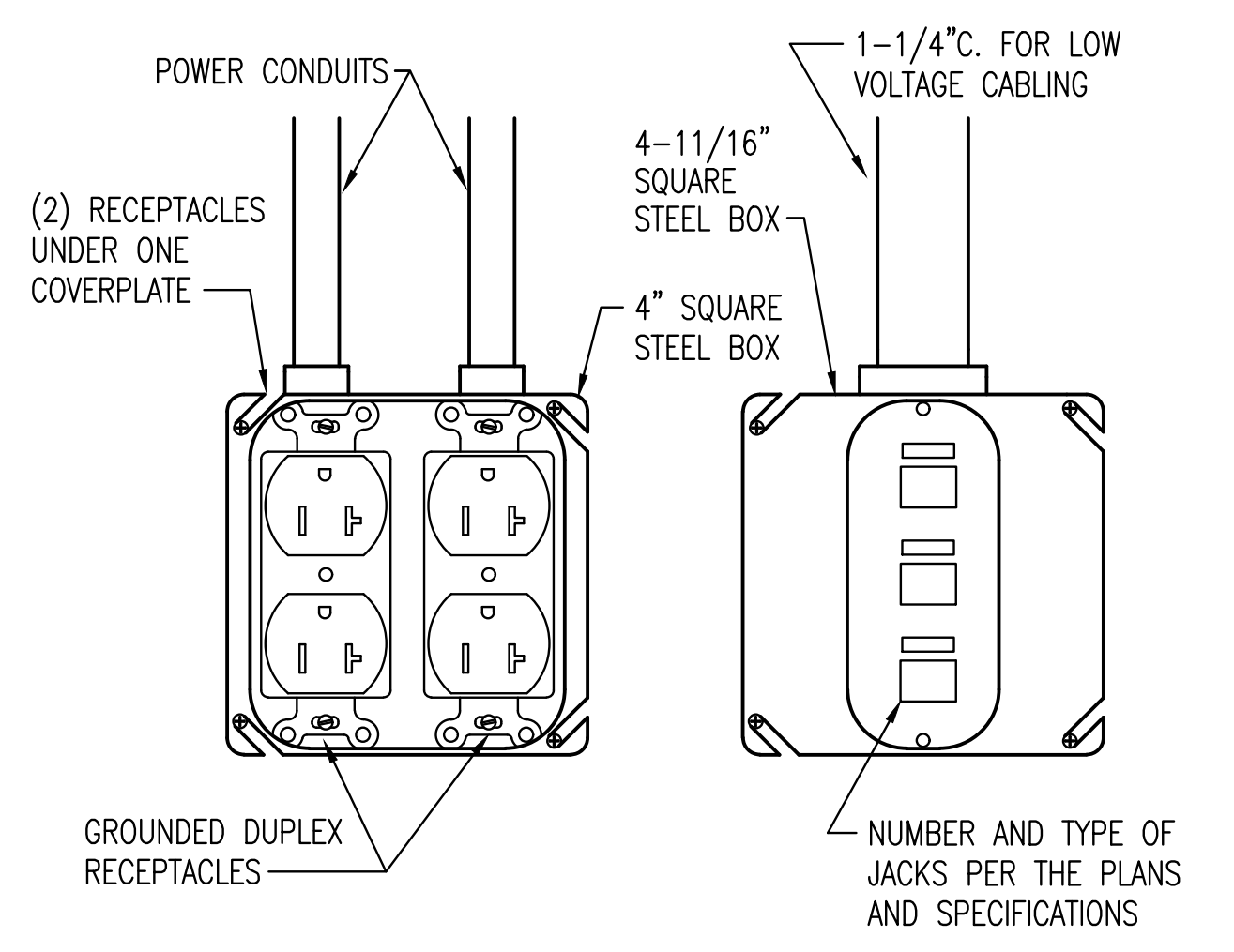
2 TYPICAL RECEPTACLE MOUNTING DETAIL
NO SCALE



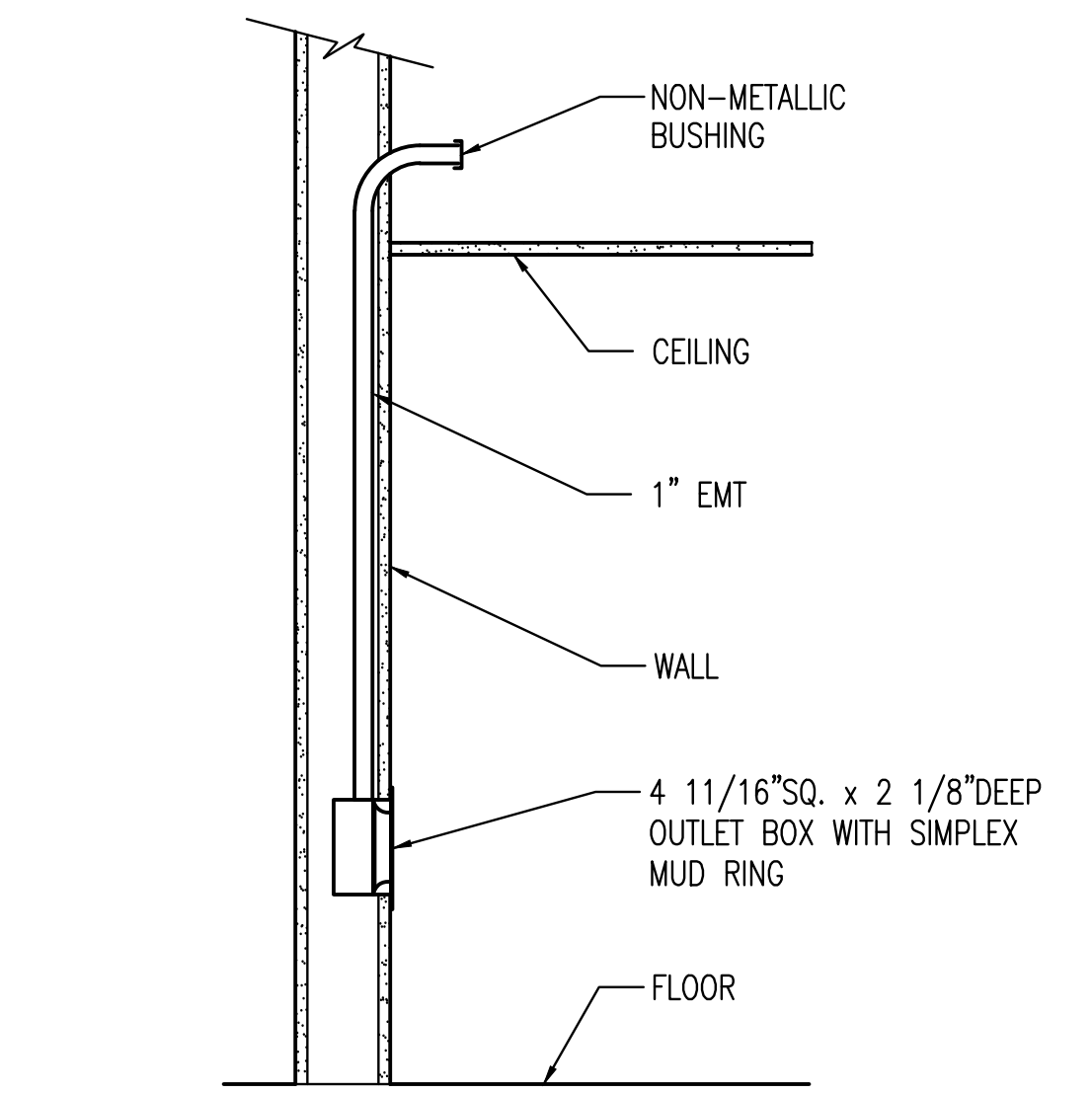
5 TYPICAL LAY-IN FIXTURE INSTALLATION DETAIL
NO SCALE

ADDITIONAL LIGHT FIXTURE SUPPORT MAY BE REQUIRED DUE TO POTENTIAL SEISMIC CONDITIONS, BUILDING OCCUPANCY, AND FIXTURE TYPE. REFER TO THE SPECIFICATIONS.

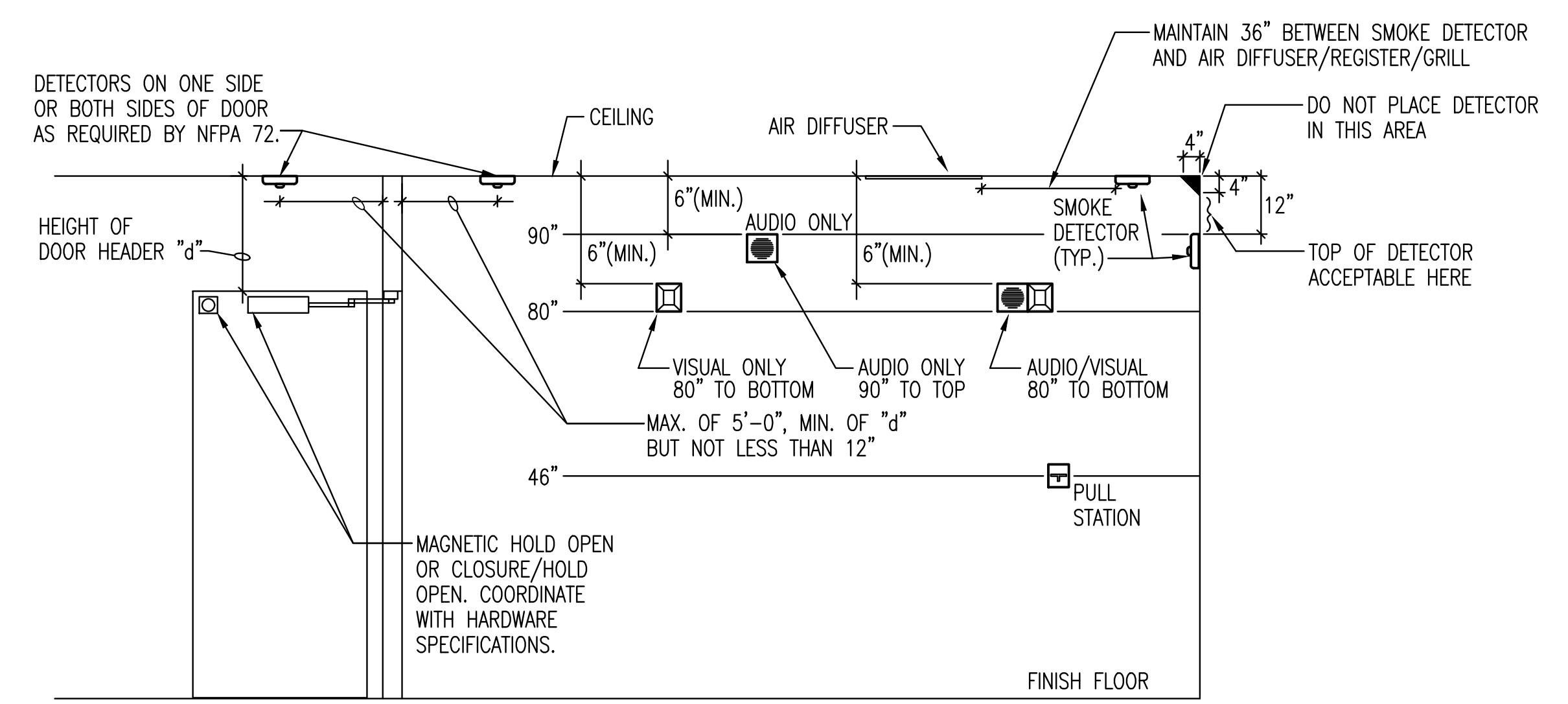
NOTE: MOUNTING AND CONNECTION OF RECESSED CAN LIGHTS SHALL UTILIZE BAR HANGERS SECURED TO GRID.



3 TYPICAL COMPUTER WORKSTATION OUTLET
NO SCALE



4 DATACOM OUTLET DETAIL
NO SCALE



6 F.A. DEVICE MOUNTING DETAIL
NO SCALE

FIRE ALARM DEVICE MOUNTING CRITERIA

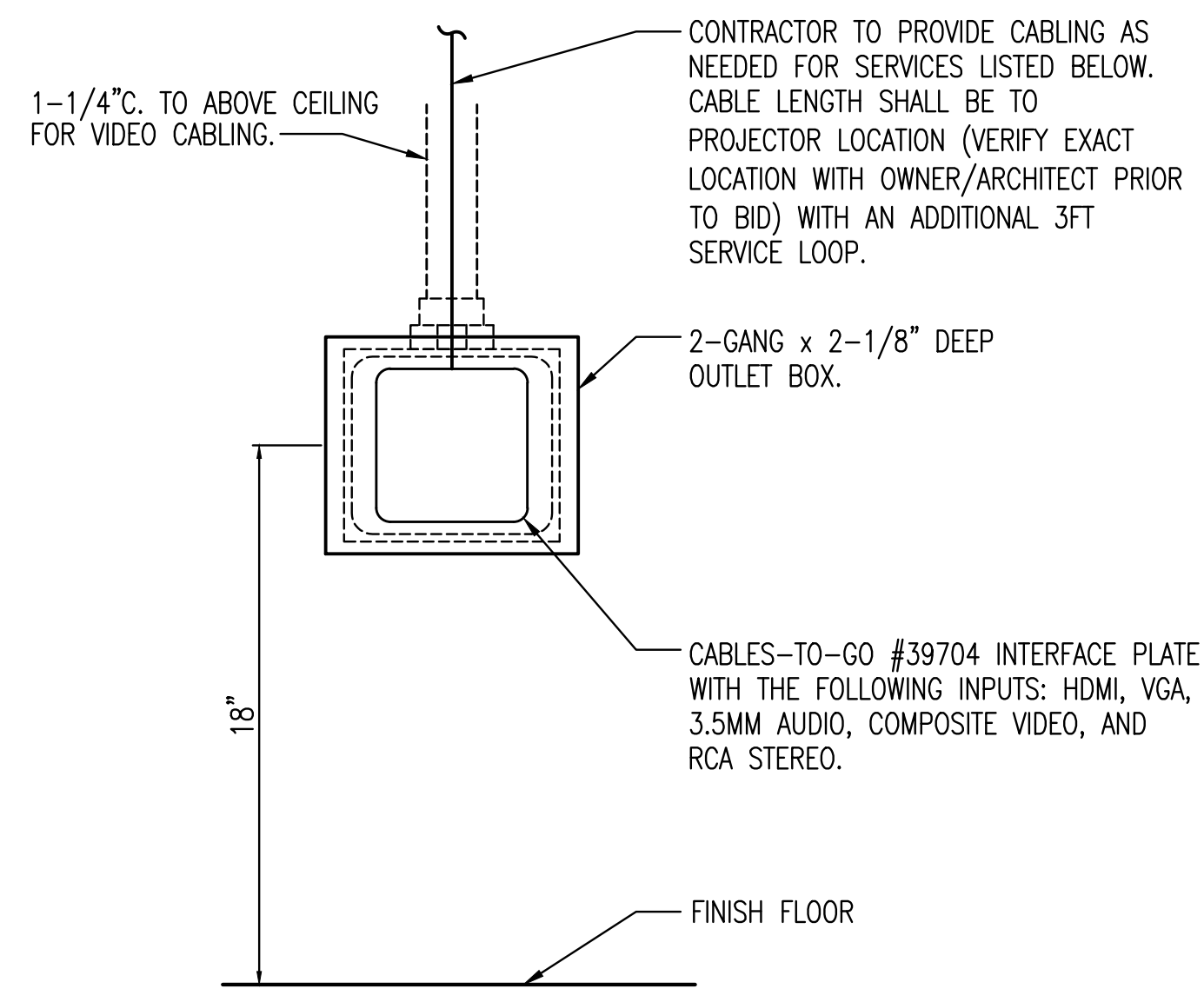
VISUAL UNIT
BOTTOM OF DEVICE 80 INCHES ABOVE HIGHEST FLOOR LEVEL OR 6 INCHES BELOW CEILING WHICH EVER IS LOWER.

AUDIO UNIT
TOP OF DEVICE 90 INCHES ABOVE HIGHEST FLOOR LEVEL OR 6 INCHES BELOW CEILING WHICH EVER IS LOWER.

AUDIO/VISUAL UNIT
REFER TO THE VISUAL UNIT.

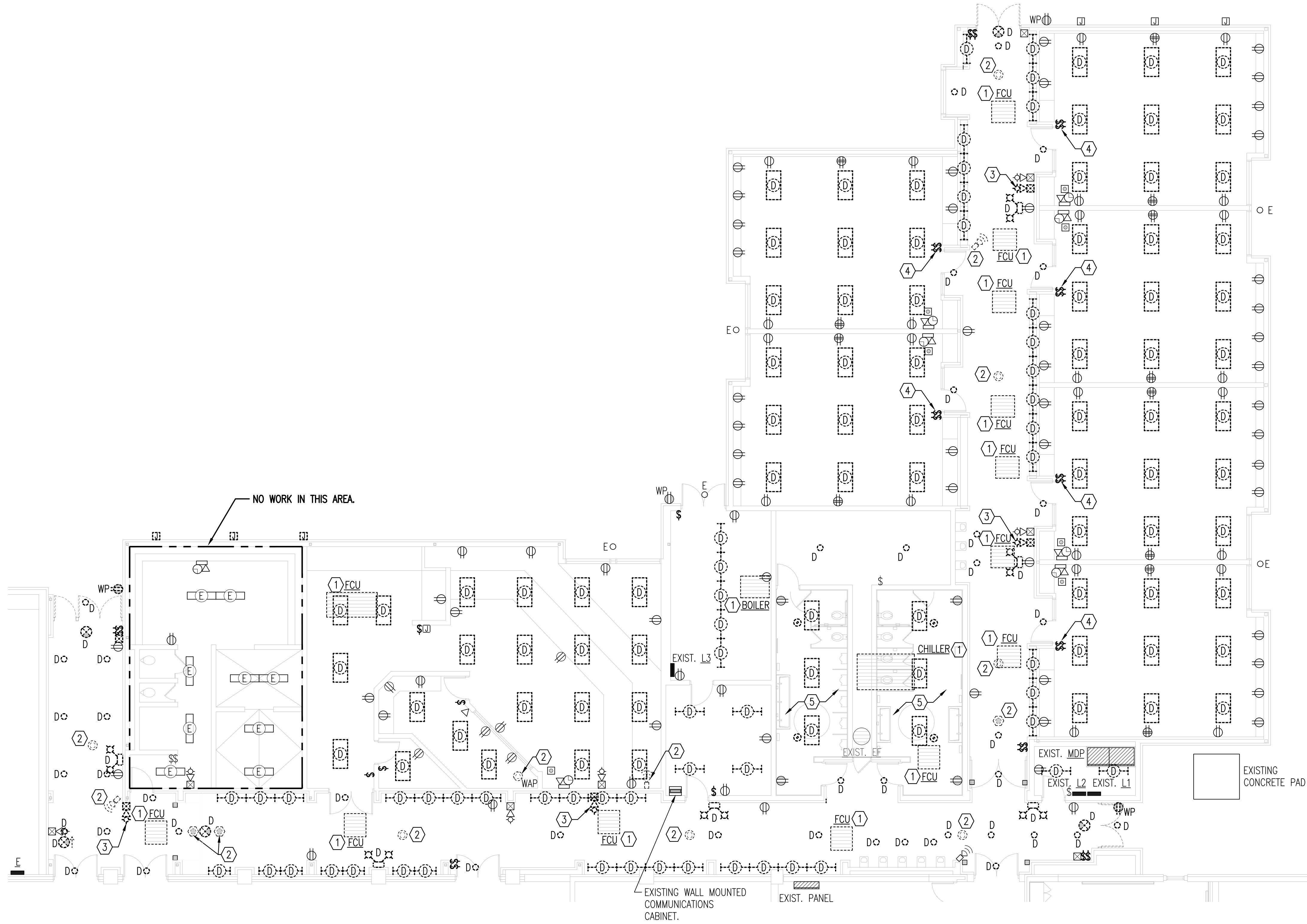
PULL STATION
46" AFF TO CENTERLINE, TOP OF DEVICE SHALL NOT BE MORE THAN 48" AFF

GENERAL NOTE
THESE GUIDELINES SHALL BE USED UNLESS MOUNTING HEIGHTS HAVE BEEN SPECIFIED OTHERWISE ON THE DRAWINGS.



7 PROJECTOR INTERFACE OUTLET DETAIL
NO SCALE

Saved 04-13-2018 11:23:14 AM by SW
 Plot Scale 1:1 04-16-2018 10:29:41 AM by SMC
 U:\Wchiro-Tech\2018\180089\000\Drawings\180089-00-02.1 ELEMENTARY SCHOOL DEMOLITION PLAN



A ELEMENTARY SCHOOL DEMOLITION PLAN

0' 4' 8' 12' 20'

SCALE: 1/8" = 1'-0"

N

DEMOLITION NOTES:

- DEMOLITION PLANS SHOW THE GENERAL EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL SERVICES TO ALL EQUIPMENT BEING REMOVED, SEE MECHANICAL PLANS. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS, SUCH AS COVERPLATES, RECEPTACLES, LIGHTS, PANELS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH OWNER PRIOR TO STARTING DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
 - REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED AREAS. PLUG BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
 - ELECTRICAL OUTLETS, ETC. POSSIBLY CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC. ARE NOT SHOWN AND MAY REQUIRE REMOVAL.
 - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, ETC.
 - WHERE EQUIPMENT AND OTHER DEVICES ARE BEING REMOVED, THE CIRCUITING SHALL BE REMOVED, IF POSSIBLE, BACK TO POINT OF SUPPLY. WHERE REQUIRED, CIRCUITING SHALL BE EXTENDED TO MAINTAIN CONTINUITY OF THE CIRCUIT OR OPERATION OF THE SYSTEM.
 - ALL DEVICES SHOWN DASHED ON THE DEMOLITION PLAN(S) SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
 - PROVIDE MATCHING BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN.
 - FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK.
9. EXISTING LIGHTING BRANCH CIRCUITS SHALL REMAIN AND BE EXTENDED/REWORKED AS NEEDED TO SERVE PROPOSED LIGHTING AND CONTROLS. IF NEEDED, CONTRACTOR TO UPDATE PANEL SCHEDULE TO PROPERLY REFLECT AREAS SERVED BY INDIVIDUAL CIRCUIT BREAKERS.

(X) KEYED NOTES:

- EXISTING HVAC EQUIPMENT TO BE REMOVED IN ITS ENTIRETY. REMOVE ASSOCIATED DISCONNECTING MEANS AND ALL CONDUCTORS, AND ACCESSIBLE CONDUITS BACK TO THE POINT OF SUPPLY. SUPPLY BREAKER/FUSE TO BE TURNED TO THE "OFF" POSITION AND MARKED AS "SPARE".
- CEILING MOUNTED DEVICE TO BE TEMPORARILY SUPPORTED DURING CONSTRUCTION AND REINSTALLED IN PROPOSED CEILING.
- EXISTING, NON-CODE COMPLIANT DEVICE TO BE REMOVED. COORDINATE BLANK COVER WITH GENERAL CONTRACTOR AND ARCHITECT.
- EXISTING BACKBOX TO REMAIN FOR INSTALLATION OF PROPOSED DEVICE(S).
- LIGHT FIXTURES AND CONTROLS WITHIN THIS ROOM TO BE SALVAGED AND DELIVERED TO OWNER.

PEC PROFESSIONAL ENGINEERING CONSULTANTS P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2891 www.pec.com

SHEET TITLE:
 ELEMENTARY SCHOOL
 DEMOLITION PLAN

DATE:
 April 16, 2018

E2.1

**SAFETY AND SECURITY UPGRADES TO
 WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
 HOLCOMB MIDDLE SCHOOL**
 HOLCOMB, KANSAS

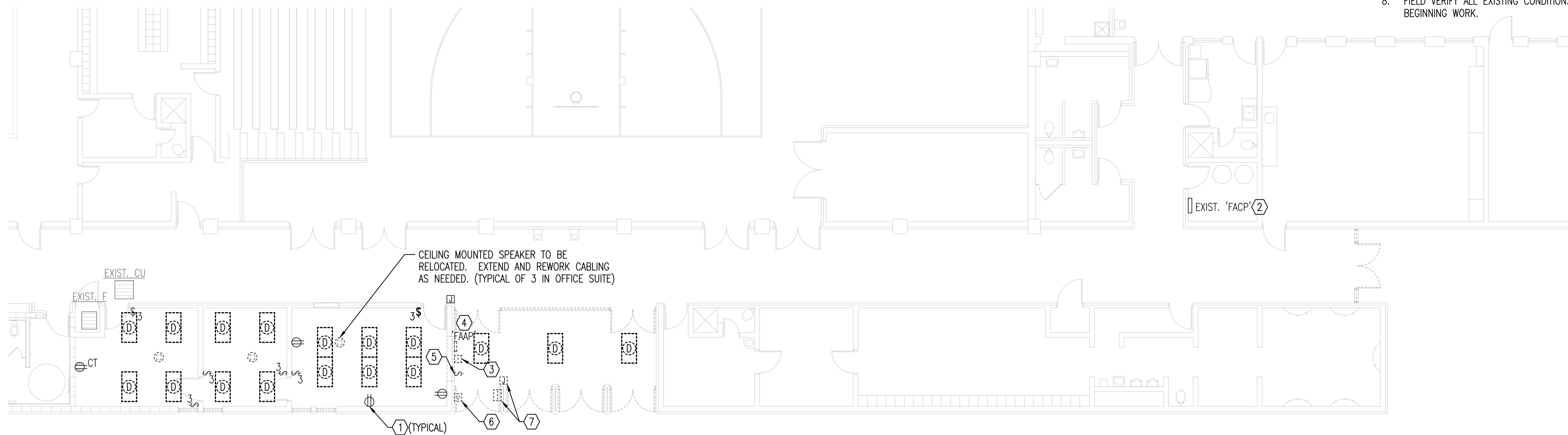
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 GARDEN CITY, KS 67846 (620) 276-5244
 www.gmcnarchitects.com



2017-21

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Saved 04-13-2018 11:04:32 AM by SW
 Plot Scale 1:1 04-16-2018 10:29:45 AM by SMC
 U:\WebSite\Tech\2018\180089\000\Drawings\180089-00-02.2 ELEMENTARY SCHOOL DEMOLITION PLAN - OFFICE AREA

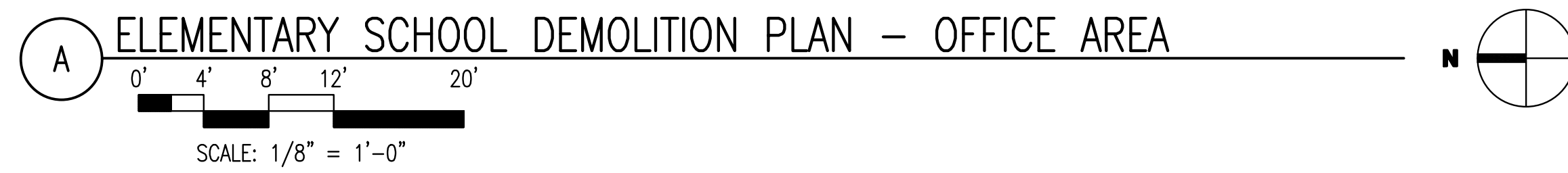


(X) KEYED NOTES:

1. EXISTING WALL MOUNTED DEVICES IN OFFICE TO REMAIN UNLESS NOTED OTHERWISE.
2. EXISTING FIRE ALARM CONTROL PANEL, SHOWN FOR REFERENCE. (SILENT KNIGHT #5820XL)
3. FIRE ALARM PULL STATION TO BE RELOCATED. EXTEND CABLING AND CONDUITS AS REQUIRED.
4. FIRE ALARM ANNUNCIATOR PANEL TO BE RELOCATED. EXTEND CABLING AND CONDUITS AS REQUIRED.
5. EXISTING LIGHT SWITCH TO BE RELOCATED. EXTEND AND REWORK CONDUIT AND CONDUCTORS AS REQUIRED.
6. EXISTING 2-WAY INTERCOM/RELEASE SYSTEM TO BE RELOCATED AS PART OF THIS PROJECT. EXTEND AND REWORK CABLING AS NECESSARY TO MAINTAIN WORKING ORDER. DOOR RELEASE SHALL BE DISABLED AS PART OF WORK. COORDINATE WITH ACCESS CONTROL INTEGRATOR.
7. EXISTING PROXIMITY CARD READER TO BE RELOCATED. ALL ASSOCIATED CABLING AND ACCESSIBLE CONDUITS ARE TO BE REWORKED AND EXTENDED AS NEEDED. SEE SHEET E4.1 FOR PROPOSED READER LOCATION.

DEMOLITION NOTES:

1. DEMOLITION PLANS SHOW THE GENERAL EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL SERVICES TO ALL EQUIPMENT BEING REMOVED, SEE MECHANICAL PLANS. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS, SUCH AS COVERPLATES, RECEPTACLES, LIGHTS, PANELS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH OWNER PRIOR TO STARTING DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
2. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED AREAS. PLUG BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
3. ELECTRICAL OUTLETS, ETC. POSSIBLY CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC. ARE NOT SHOWN AND MAY REQUIRE REMOVAL.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, ETC.
5. WHERE EQUIPMENT AND OTHER DEVICES ARE BEING REMOVED, THE CIRCUITING SHALL BE REMOVED, IF POSSIBLE, BACK TO POINT OF SUPPLY. WHERE REQUIRED, CIRCUITING SHALL BE EXTENDED TO MAINTAIN CONTINUITY OF THE CIRCUIT OR OPERATION OF THE SYSTEM.
6. ALL DEVICES SHOWN DASHED ON THE DEMOLITION PLAN(S) SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
7. PROVIDE MATCHING BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN.
8. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK.



PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2891 www.pec1.com

SHEET TITLE:
 ELEMENTARY SCHOOL
 DEMOLITION PLAN - OFFICE
 AREA

DATE:
 April 16, 2018

E2.2

**SAFETY AND SECURITY UPGRADES TO
 WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
 HOLCOMB MIDDLE SCHOOL**
 HOLCOMB, KANSAS

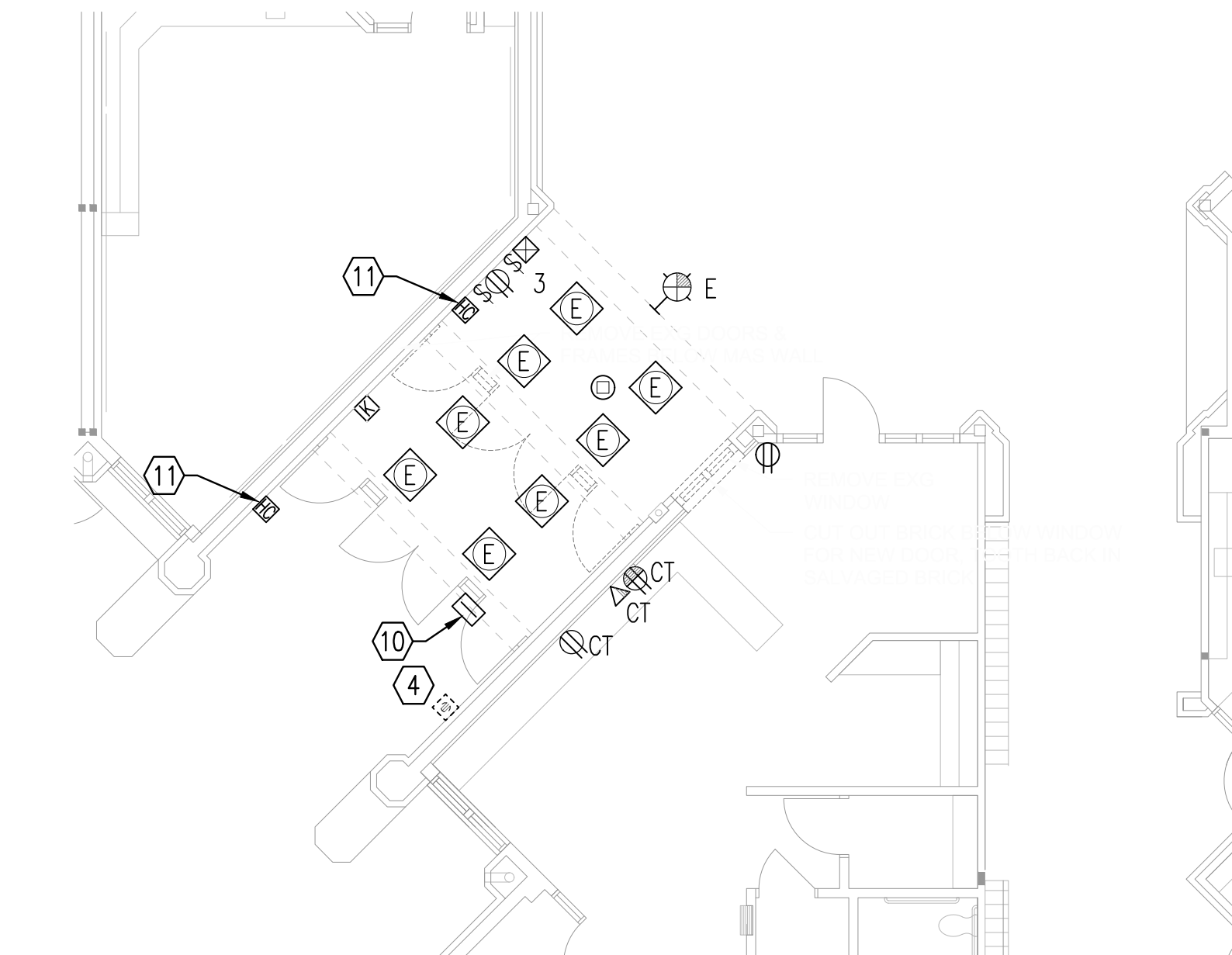
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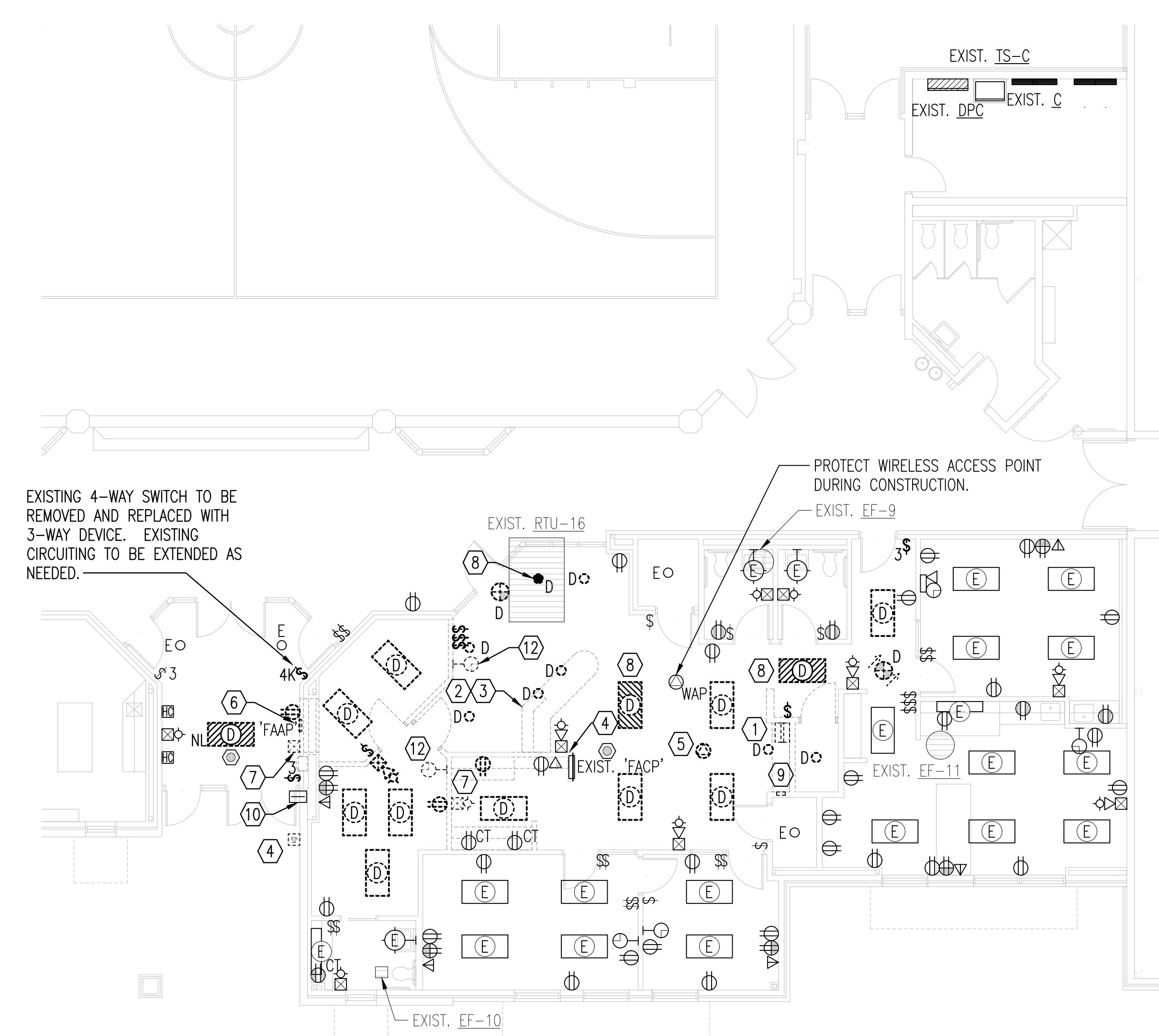
2017-21

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Saved 04-13-2018 10:46:17 AM by SW
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 U:\Working\2018\180089\000\Drawings\180089-00-02.3 WILEY ELEMENTARY DEMOLITION PLAN



B HOLCOMB MIDDLE SCHOOL DEMOLITION PLAN
 0' 4' 8' 12' 20'
 SCALE: 1/8" = 1'-0"



A WILEY ELEMENTARY DEMOLITION PLAN
 0' 4' 8' 12' 20'
 SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

- DEMOLITION PLANS SHOW THE GENERAL EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL SERVICES TO ALL EQUIPMENT BEING REMOVED, SEE MECHANICAL PLANS. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS, SUCH AS COVERPLATES, RECEPTACLES, LIGHTS, PANELS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH OWNER PRIOR TO STARTING DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
- REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED AREAS. PLUG BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
- ELECTRICAL OUTLETS, ETC. POSSIBLY CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC. ARE NOT SHOWN AND MAY REQUIRE REMOVAL.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, ETC.
- WHERE EQUIPMENT AND OTHER DEVICES ARE BEING REMOVED, THE CIRCUITING SHALL BE REMOVED, IF POSSIBLE, BACK TO POINT OF SUPPLY. WHERE REQUIRED, CIRCUITING SHALL BE EXTENDED TO MAINTAIN CONTINUITY OF THE CIRCUIT OR OPERATION OF THE SYSTEM.
- ALL DEVICES SHOWN DASHED ON THE DEMOLITION PLAN(S) SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
- PROVIDE MATCHING BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK.
- EXISTING LIGHTING BRANCH CIRCUITS SHALL REMAIN AND BE EXTENDED/REWORKED AS NEEDED TO SERVE PROPOSED LIGHTING AND CONTROLS. IF NEEDED, CONTRACTOR TO UPDATE PANEL SCHEDULE TO PROPERLY REFLECT AREAS SERVED BY INDIVIDUAL CIRCUIT BREAKERS.

(X) KEYED NOTES:

- EXISTING INTERCOM/CLOCK HEAD END TO BE RELOCATED. EXTEND AND REWORK ALL CONNECTIONS TO ALLOW FOR EXTENSION TO PROPOSED LOCATION. PRIOR TO RELOCATION, CONTRACTOR TO VERIFY OPERATION OF THIS HEAD END WITH DISTRICT/SCHOOL PERSONNEL. IF IT IS FOUND THAT EQUIPMENT IS NO LONGER IN SERVICE, REMOVE HEAD END EQUIPMENT AND ALL ASSOCIATED CABLING AND ACCESSIBLE EQUIPMENT. EQUIPMENT SHALL BE SALVAGED AND RETURNED TO OWNER IF SO DESIRED BY OWNER. IF EQUIPMENT IS STILL IN SERVICE, RELOCATE TO LOCATION AS INDICATED ON SHEET E4.2.
- RECEPTACLES WITHIN EXISTING CASEWORK TO BE REMOVED. EXISTING BRANCH CIRCUIT TO BE REWORKED TO SERVE PROPOSED DEVICES AT NEW COUNTER LOCATION.
- TELECOMMUNICATIONS CABLING TO BE PULLED OUT OF EXISTING CASEWORK AND COILED FOR EXTENSION/ROUTING TO PROPOSED DEVICES IN NEW COUNTER. CONTRACTOR TO VERIFY EXISTING QUANTITIES AND PROVIDE MATCHING QUANTITY AT NEW LOCATION.
- EXISTING AIPHONE DOOR 2-WAY INTERCOM/RELEASE SYSTEM TO BE RELOCATED AS PART OF THIS PROJECT. EXTEND AND REWORK CABLING AS NECESSARY TO MAINTAIN WORKING ORDER. DOOR RELEASE SHALL BE DISABLED AS PART OF WORK. COORDINATE WITH ACCESS CONTROL INTEGRATOR.
- EXISTING POWERPOLE TO BE REMOVED IN ITS ENTIRETY. REMOVE CONDUCTORS/CABLING AND ACCESSIBLE CONDUITS.
- FIRE ALARM ANNUNCIATOR PANEL TO BE RELOCATED. EXTEND CABLING AND CONDUITS AS REQUIRED.
- FIRE ALARM DEVICE TO BE RELOCATED. EXTEND CABLING AND CONDUITS AS REQUIRED.
- EMERGENCY LIGHTING RELAY CURRENTLY SERVING THE ADMINISTRATION AREA TO BE REMOVED. EMERGENCY LIGHTING BRANCH CIRCUIT TO REMAIN AND BE EXTENDED AS INDICATED ON SHEET E4.2.
- FLUSH MOUNTED GENERATOR ANNUNCIATOR PANEL TO REMAIN AT CURRENT LOCATION AND BE PROTECTED DURING CONSTRUCTION.
- EXISTING PROXIMITY CARD READER TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY OPERATION OF EXISTING AUTOMATIC PUSH BUTTON DOOR. INITIATION OF DOOR OPERATOR SHALL NOT BYPASS PROPOSED ACCESS CONTROL HARDWARE.
- EXISTING CLOCK TO BE RELOCATED. EXTEND CABLING, CONDUCTORS, AND CONDUIT AS REQUIRED.

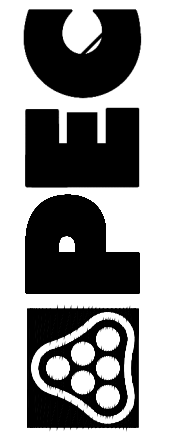


2017-21



**SAFETY AND SECURITY UPGRADES TO
 WILEY ELEMENTARY, HOLCOMB ELEMENTARY &
 HOLCOMB MIDDLE SCHOOL**
 HOLCOMB, KANSAS

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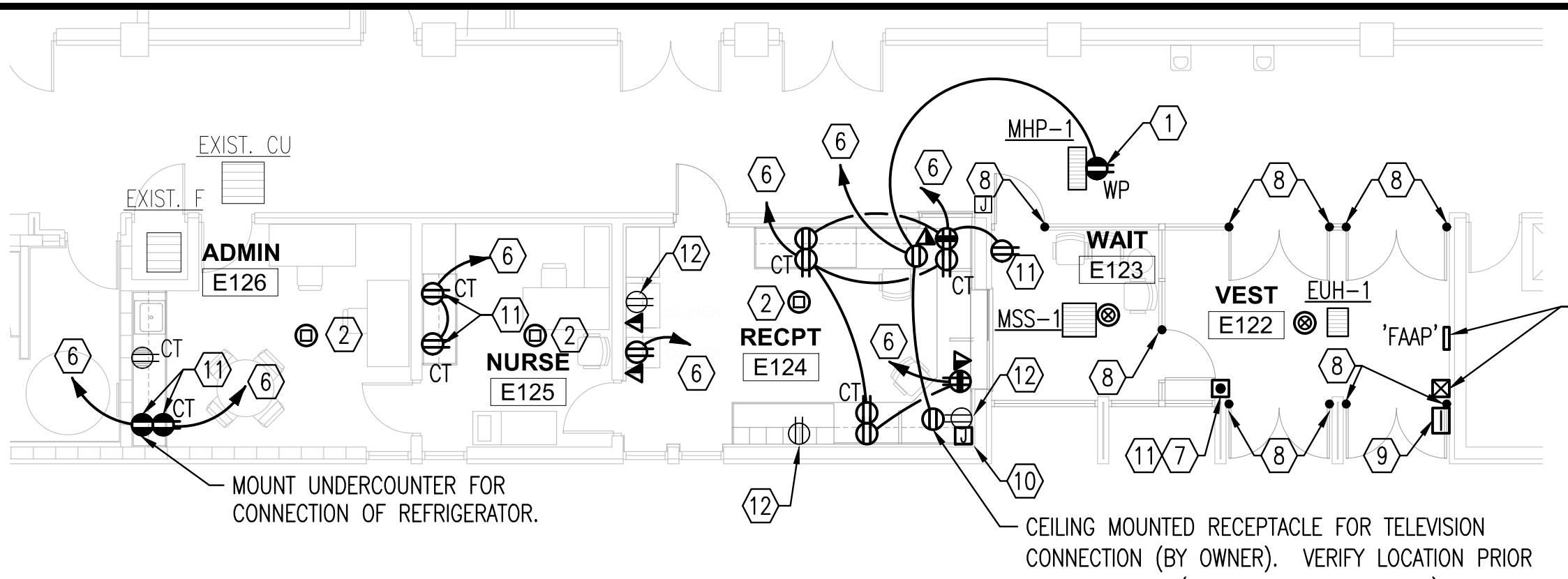


SHEET TITLE:
 HOLCOMB MIDDLE SCHOOL
 AND WILEY ELEMENTARY
 DEMOLITION PLANS

DATE:
 April 16, 2018

E2.3

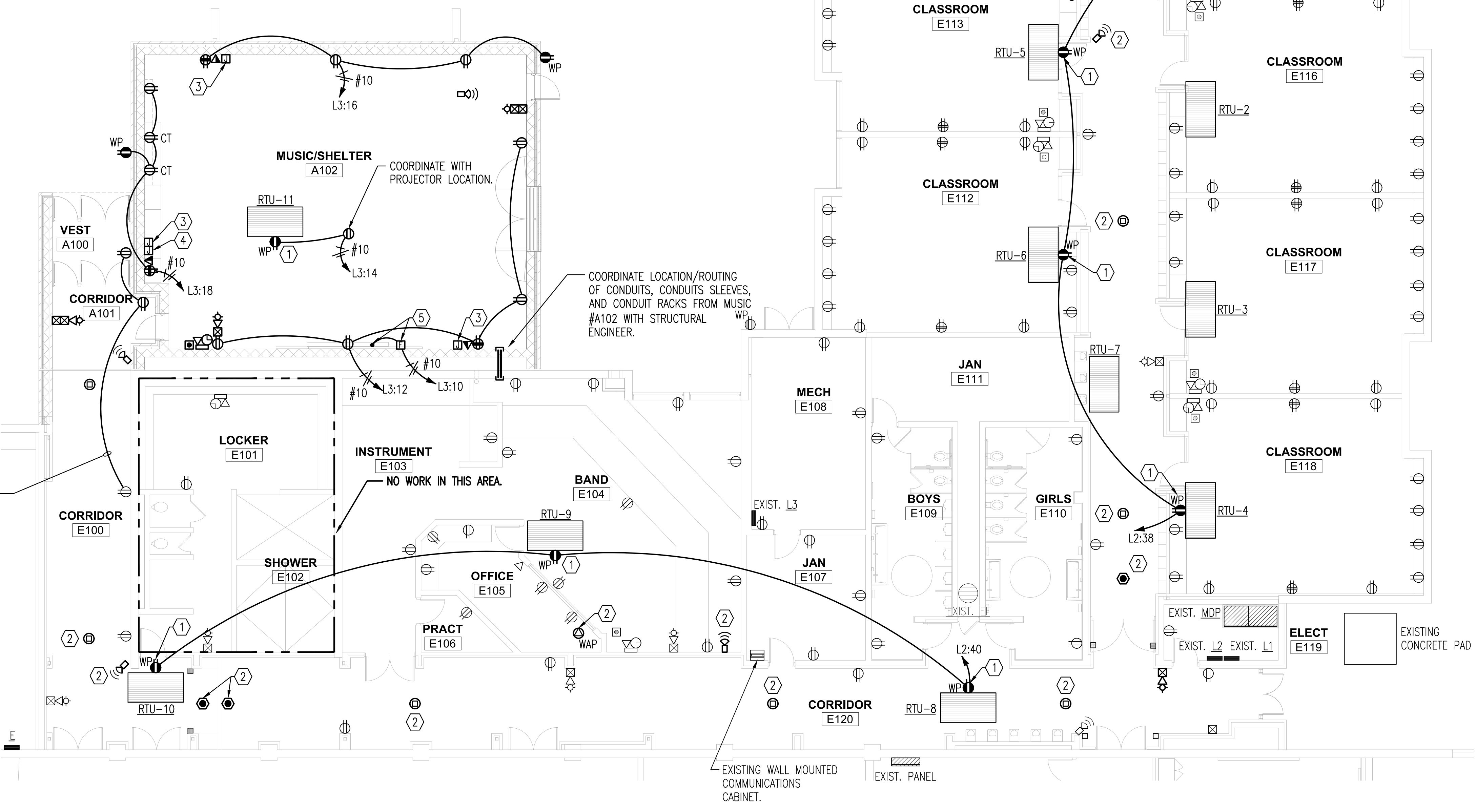
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B ELEMENTARY SCHOOL POWER PLAN - OFFICE

0' 4' 8' 12' 20'

SCALE: 1/8" = 1'-0"



A ELEMENTARY SCHOOL POWER PLAN

0' 4' 8' 12' 20'

SCALE: 1/8" = 1'-0"

- PLAN NOTES:**
- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
 - A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
 - FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
 - ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
 - ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
 - OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

- (X) KEYED NOTES:**
- MOUNT ON UNIT. DO NOT BLOCK MAINTENANCE OR ACCESS PANELS.
 - PROPOSED LOCATION OF EXISTING, RELOCATED CEILING MOUNTED DEVICE. EXTEND AND REWORK ASSOCIATED CABLING AND CONDUIT (F APPLICABLE) AS NEEDED.
 - FLUSH MOUNTED J-BOX AT 18" AFF WITH (1) 1-1/4" CONDUIT (WITH NON-METALLIC BUSHING) WITH PULLROPE ROUTED TO AND TURNED OUT WITHIN PLENUM SPACE FOR FUTURE ROUTING OF AUDIO-VISUAL CABLING. PROVIDE BLANK COVER, TYPE AND COLOR TO MATCH OTHERS WITH 1" DIAMETER OPENING WITH GROMMET FOR CABLE PASS THROUGH.
 - PROJECTOR INTERFACE PLATE. REFER TO DETAIL 7/E1.1 FOR FURTHER INFORMATION.
 - CONNECT MOTORIZED PROJECTION SCREEN AS REQUIRED. VERIFY AND COORDINATE CONNECTION REQUIREMENTS AND CONTROL SWITCH LOCATION PRIOR TO ROUGH-IN.
 - CONNECT TO THE NEAREST "SPARE" 20A., 1P., 120V. CIRCUIT BREAKER. IF A "SPARE" IS NOT AVAILABLE, PROVIDE ONE IN AN AVAILABLE SPACE. DEVICE PROVIDED SHALL MATCH MANUFACTURER, TYPE, AND AIC RATING OF THOSE EXISTING IN PANEL. UPDATE PANEL DIRECTORY AS NEEDED.
 - RELOCATED 2-WAY INTERCOM/DOOR RELEASE SYSTEM. VERIFY AND COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN. FROM INTERCOM STATION LOCATION, ROUTE (1) 1" CONDUIT WITH PULLROPE AND TURN OUT INTO ACCESSIBLE CEILING CAVITY. PROVIDE WITH NON-METALLIC BUSHING. REMOVE DOOR RELEASE FUNCTIONALITY, COORDINATE WITH ACCESS CONTROL INTEGRATOR.
 - STUB (1) 1" CONDUIT WITH PULLROPE INTO DOOR MULLION FOR ROUTING OF ACCESS CONTROL CABLING. CONDUIT SHALL TURN OUT INTO PLENUM SPACE AND BE PROVIDED WITH NON-METALLIC BUSHING.
 - EXISTING ACCESS CONTROL PROXIMITY READER TO BE RELOCATED ON DOOR MULLION. VERIFY AND COORDINATE LOCATION WITH ACCESS CONTROL INTEGRATOR.
 - FLUSH MOUNTED JUNCTION BOX, LOCATED BELOW COUNTER, FOR ROUTING OF CABLING TO PROPOSED DOOR RELEASE CONTROL PANEL AT COUNTER LOCATION. CONTRACTOR TO VERIFY LOCATION OF CONTROL PANEL PRIOR TO BOX ROUGH-IN. FROM BOX, ROUTE (1) 1-1/2" CONDUIT WITH PULLROPE AND TURN OUT INTO ACCESSIBLE CEILING. BOX TO BE PROVIDED WITH BLANK COVER AND (2) 1" GROMMETED KNOCKOUTS FOR ROUTING OF CABLING TO INTEGRATOR PROVIDED/INSTALLED DEVICE.
 - PROVIDE WIREMOLD #V500 OR EQUAL SURFACE RACEWAY FOR INSTALLATION OF DEVICES ON EXISTING WALLS.
 - PROVIDE BOX EXTENSIONS TO MOVE DEVICE TO FURRED WALL.

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Plot Scale: 1/8" = 1'-0"
C:\Users\Tsch\Documents\Drawings\180908-00-14-1 ELEMENTARY SCHOOL POWER PLAN

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SHEET TITLE:
ELEMENTARY SCHOOL POWER PLAN

DATE:
April 16, 2018

E4.1

SAFETY AND SECURITY UPGRADES TO WILEY ELEMENTARY, HOLCOMB ELEMENTARY & HOLCOMB MIDDLE SCHOOL
HOLCOMB, KANSAS

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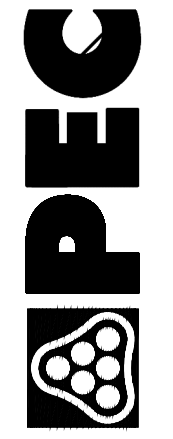


2017-21

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SHEET TITLE:
HOLCOMB MIDDLE SCHOOL
AND WILEY ELEMENTARY
ELECTRICAL PLANS

DATE:
April 16, 2018

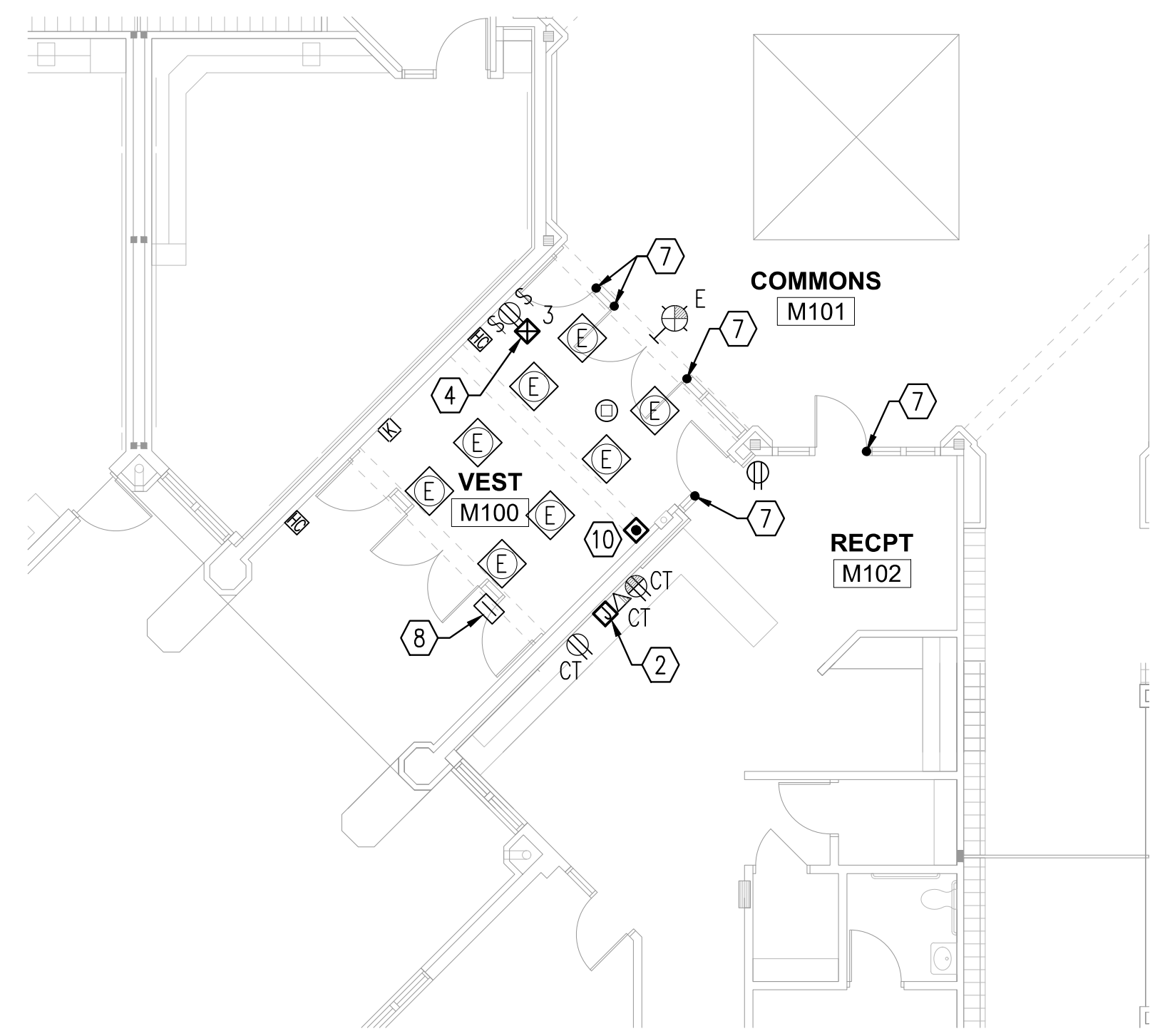
E4.2

PLAN NOTES:

- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.
- STUB (1) 1" CONDUIT WITH PULLROPE INTO DOOR MULLION FOR ROUTING OF ACCESS CONTROL CABLING. CONDUIT SHALL TURN OUT INTO INTO PLENUM SPACE AND BE PROVIDED WITH NON-METALLIC BUSHING.
- EXISTING ACCESS CONTROL PROXIMITY READER TO REMAIN. EXISTING PATHWAY(S) TO BE UTILIZED FOR ADDITIONAL CABLING TO BE ADDED AS PART OF ACCESS CONTROLS INTEGRATOR SCOPE.
- ACCESS CONTROL PROXIMITY READER TO BE INSTALLED ON DOOR MULLION. VERIFY AND COORDINATE LOCATION WITH ACCESS CONTROL INTEGRATOR.
- RELOCATED 2-WAY INTERCOM/DOOR RELEASE SYSTEM. VERIFY AND COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN. FROM INTERCOM STATION LOCATION, ROUTE (1) 1" CONDUIT WITH PULLROPE AND TURN OUT INTO ACCESSIBLE CEILING CAVITY. PROVIDE WITH NON-METALLIC BUSHING. REMOVE DOOR RELEASE FUNCTIONALITY, COORDINATE WITH ACCESS CONTROL INTEGRATOR. PROVIDE SURFACE MOUNTED RACEWAY (WIREMOLD #V500 OR EQUAL) WHERE REQUIRED.
- CONNECT TO EXISTING "NORMAL" LIGHTING CIRCUIT CURRENTLY SERVING THIS AREA. EXTEND UNSWITCHED "HOT" LEG AS REQUIRED FOR SENSING LEGS FOR EMERGENCY POWER PACKS.
- CONNECT TO EXISTING "EMERGENCY" LIGHTING CIRCUIT CURRENTLY SERVING THIS AREA. EXTEND UNSWITCHED "HOT" LEG AS REQUIRED TO SERVE EXIT SIGNAGE AND FIXTURES DESIGNATED AS "NIGHT LIGHT".
- RELOCATED CLOCK LOCATION. VERIFY AND COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ALL CABLING, CONDUITS, AND CONDUCTORS ARE TO BE CONCEALED WITHIN CASEWORK CONSTRUCTION.

KEYED NOTES:

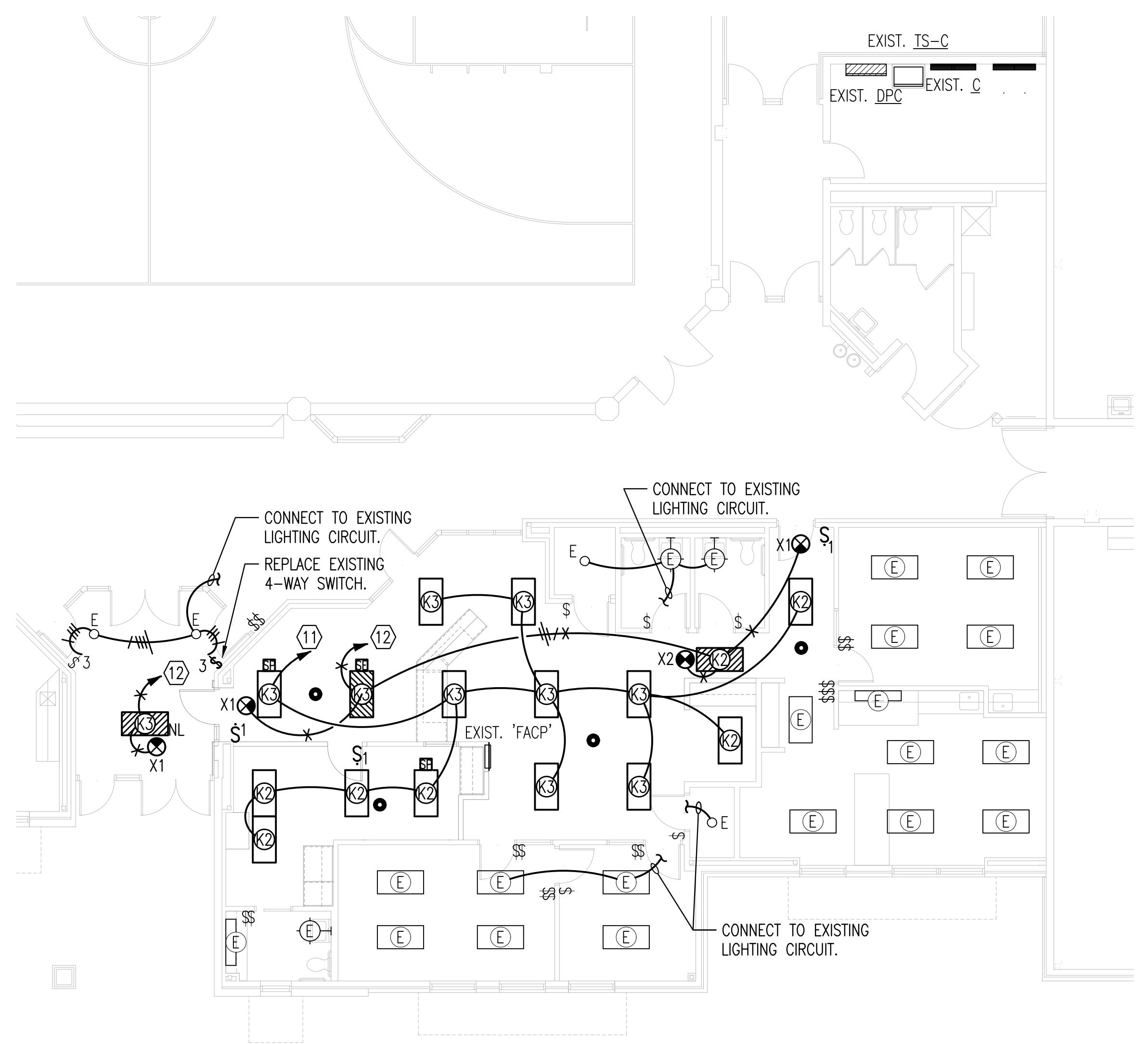
- PROPOSED LOCATION OF INTERCOM/CLOCK HEAD END IF UNIT IS STILL IN SERVICE PER DISTRICT AND SCHOOL PERSONNEL. EXTEND AND REWORK ALL CABLING AND ASSOCIATED CONDUITS TO ALLOW FOR EXTENSION TO PROPOSED LOCATION.
- FLUSH MOUNTED JUNCTION BOX, LOCATED BELOW COUNTER, FOR ROUTING OF CABLING TO PROPOSED DOOR RELEASE CONTROL PANEL AT COUNTER LOCATION. CONTRACTOR TO VERIFY LOCATION OF CONTROL PANEL PRIOR TO BOX ROUGH-IN. FROM BOX, ROUTE (1) 1-1/2" CONDUIT WITH PULLROPE AND TURN OUT INTO ACCESSIBLE CEILING. BOX TO BE PROVIDED WITH BLANK COVER AND (2) 1" GROMMETED KNOCKOUTS FOR ROUTING OF CABLING TO INTEGRATOR PROVIDED/INSTALLED DEVICE.
- RELOCATED FIRE ALARM ANNUNCIATOR PANEL. EXTEND CABLING AND CONDUITS AS REQUIRED.
- RELOCATED FIRE ALARM DEVICE. EXTEND CABLING AND CONDUITS AS REQUIRED. WHERE APPLICABLE, PROVIDE WIREMOLD #V500 SURFACE RACEWAY OR EQUAL FOR INSTALLATION ON EXISTING WALL.
- FLUSH MOUNTED GENERATOR ANNUNCIATOR PANEL TO REMAIN AT CURRENT LOCATION AND BE PROTECTED DURING CONSTRUCTION.
- DEVICES TO BE CUT INTO EXISTING GYPSUM WALL. CONDUITS SERVING THESE DEVICES ARE ALLOWED TO BE MC-CABLE TYPE.



(C) HOLCOMB MIDDLE SCHOOL POWER/LIGHTING PLAN
SCALE: 1/8" = 1'-0"
N

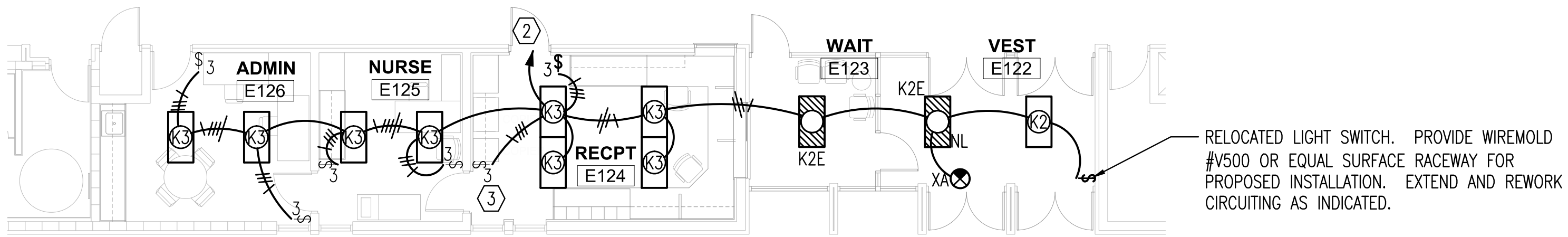


(A) WILEY ELEMENTARY SCHOOL POWER PLAN
SCALE: 1/8" = 1'-0"
N



(B) WILEY ELEMENTARY SCHOOL LIGHTING PLAN
SCALE: 1/8" = 1'-0"
N

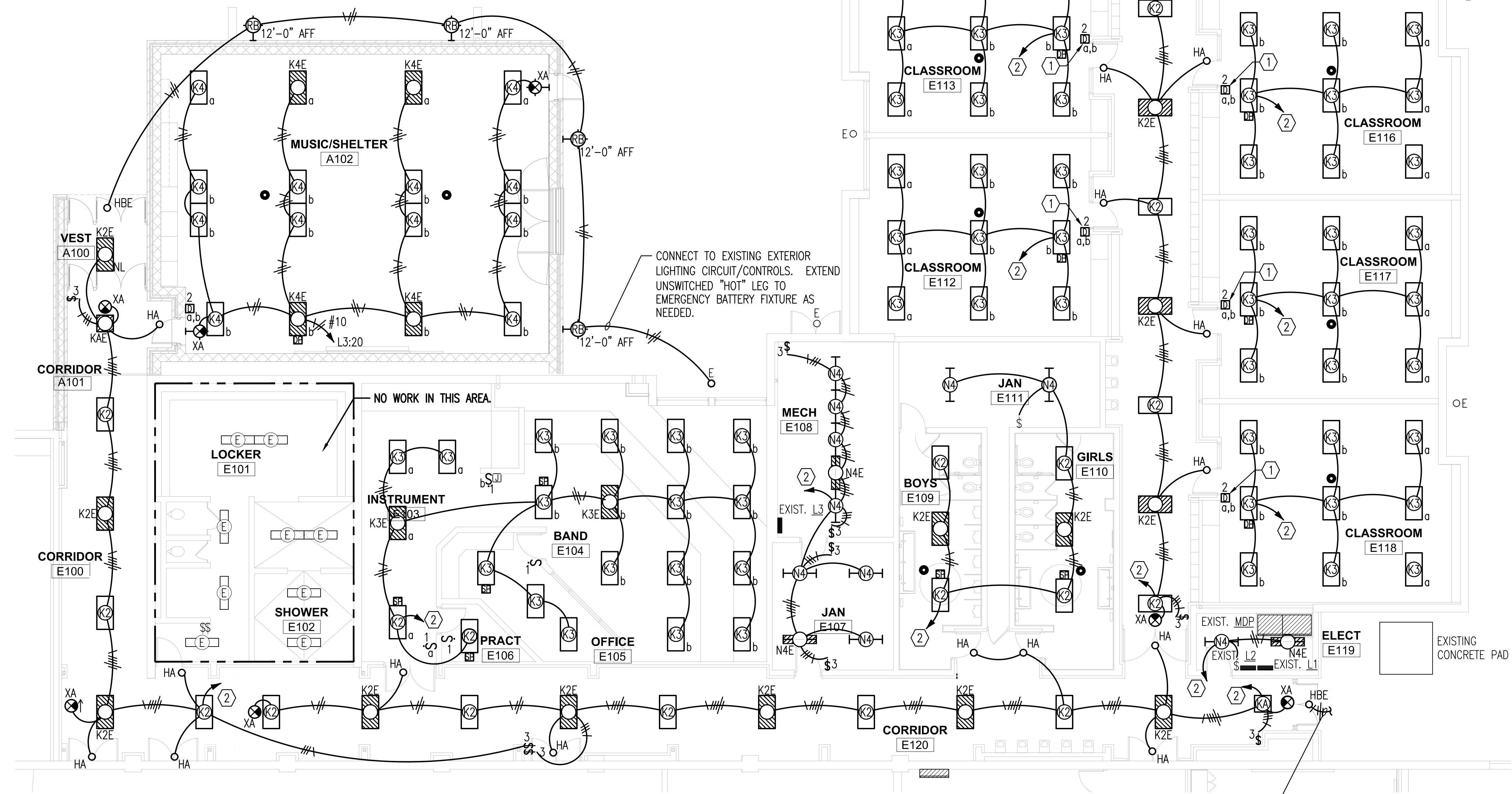
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C:\wchita\Tech\2018\180089\000\Drawings\180089-00-14.3 WILEY ELEMENTARY ELECTRICAL PLANS



B ELEMENTARY SCHOOL LIGHTING PLAN - OFFICE

0' 4' 8' 12' 20'

SCALE: 1/8" = 1'-0"



A ELEMENTARY SCHOOL LIGHTING PLAN

0' 4' 8' 12' 20'

SCALE: 1/8" = 1'-0"

- PLAN NOTES:**
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 - ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
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 - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.
- KEYED NOTES:**
- INSTALL DEVICES INDICATED IN EXISTING BACKBOX.
 - CONNECT TO EXISTING LIGHTING CIRCUIT CURRENTLY SERVING THIS SPACE. CONTRACTOR TO EXTEND UNSWITCHED "HOT" LEG AS NECESSARY FOR PROPER CHARGING/OPERATION OF PROPOSED EMERGENCY FIXTURE AND/OR EXIT SIGN (IF APPLICABLE). FIXTURES SHALL BE CONTROLLED VIA EXISTING CONTROL DEVICE(S) UNLESS INDICATED OTHERWISE.
 - PROVIDE BOX EXTENSIONS TO MOVE DEVICE TO FURRED WALL.

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 U:\Projects\2018\180089\000\Drawings\180089-00-ES-1 ELEMENTARY SCHOOL LIGHTING PLAN

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2017-21

SHEET TITLE: ELEMENTARY SCHOOL LIGHTING PLAN
 DATE: April 16, 2018
E5.1