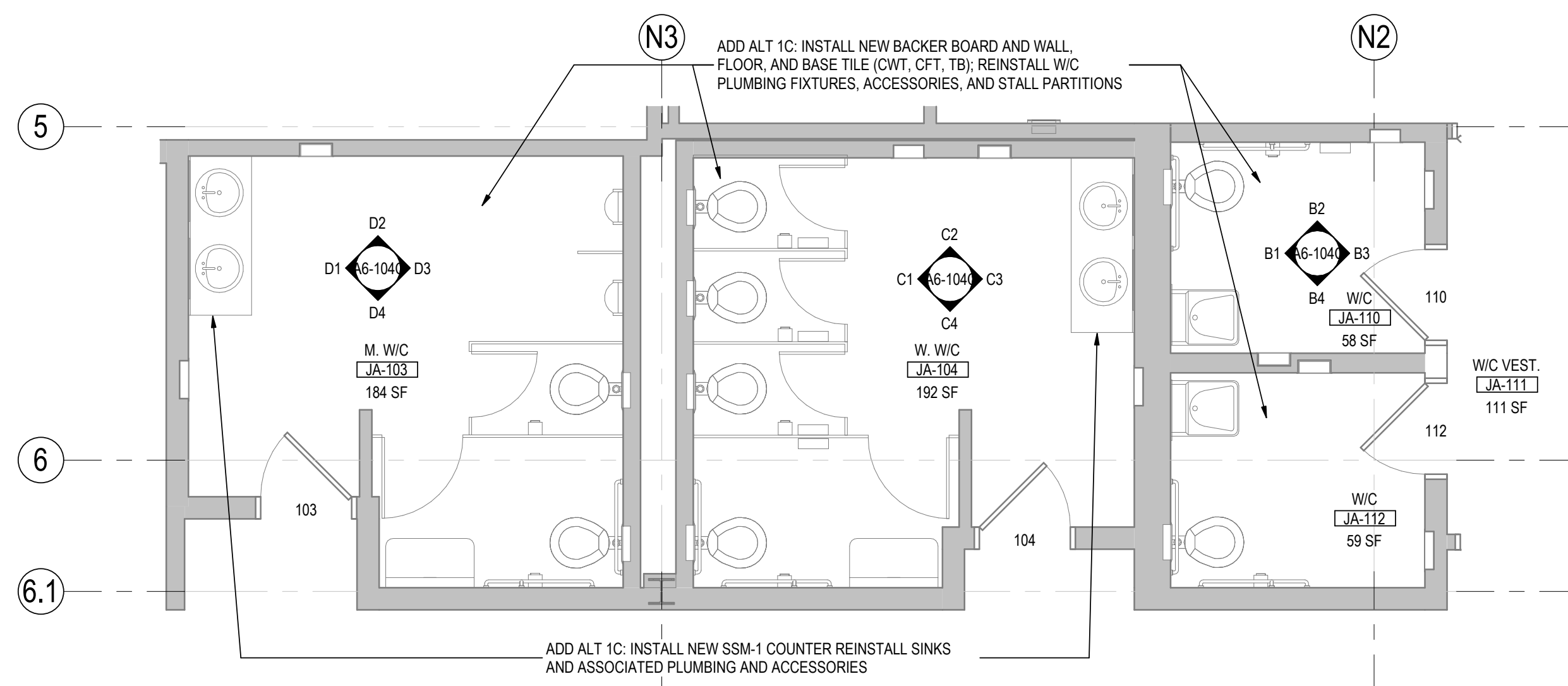
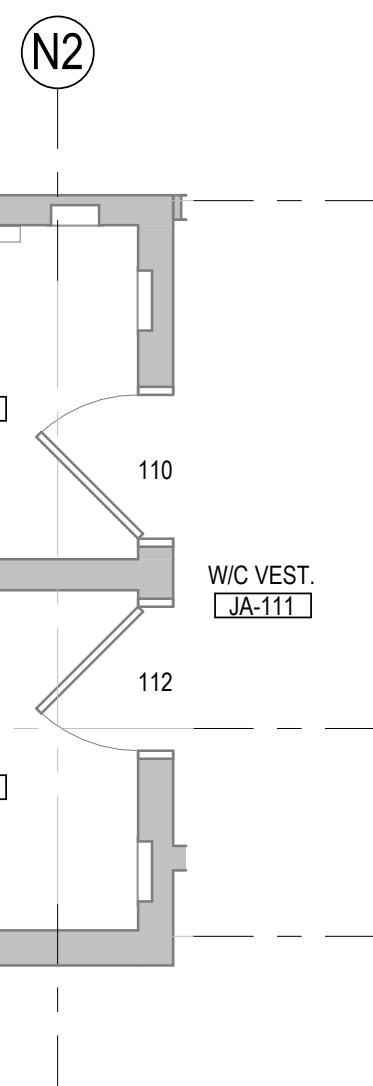
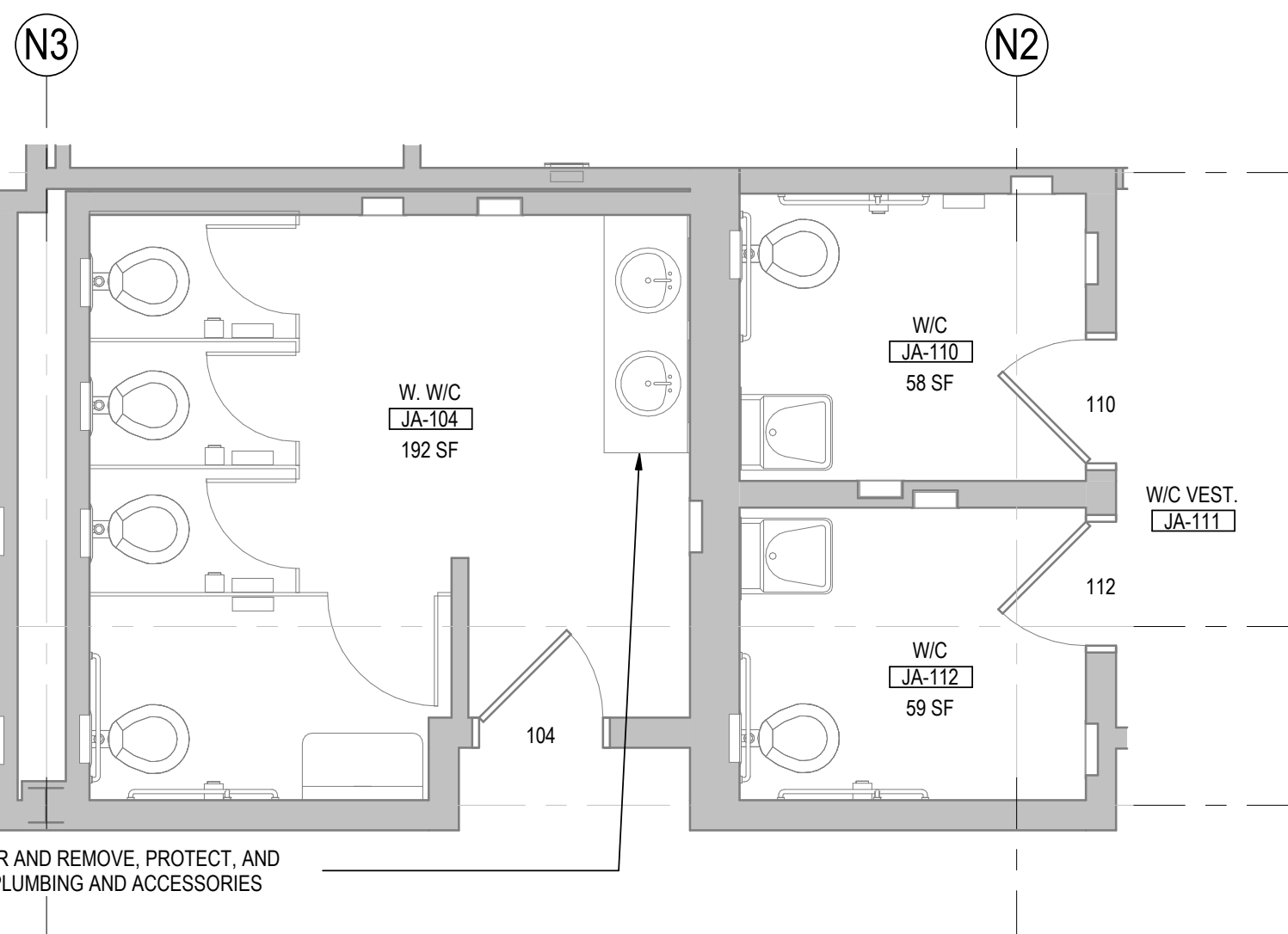


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A6-102C





**ADD ALT 1C
GENERAL NOTES - ENLARGED
PLANS & INT ELEVATIONS**

1. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD, INCLUDING EXISTING LOCATIONS OF PLUMBING FIXTURES AND RESTROOM ACCESSORIES.
2. REPLACE MOISTURE RESISTANT GWB AND INSULATION AS REQUIRED.
3. SEE SHEET A9-101C FOR PARTITION TYPES.
4. SEE G0-004 FOR TYPICAL MOUNTING HEIGHTS.
5. SEE FINISH PLAN, FINISH MATERIAL LEGEND, AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.



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Consultant

[illegible]

Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Connector

Project No.:2014331970
Title

ENLARGED FLOOR
PLANS / INT
ELEVATIONS - ADD ALT

Scale: _____
Revision: 3
NUMBER: _____

A6-104C



A6-301C 3" = 1'-0"

A6-301C

D

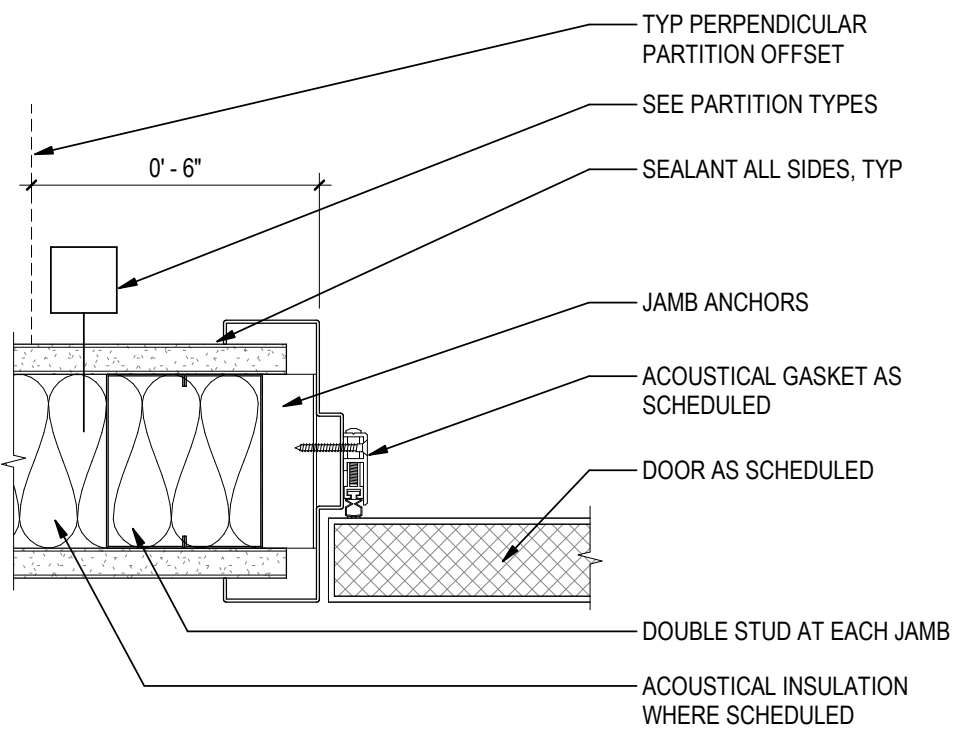
C

B

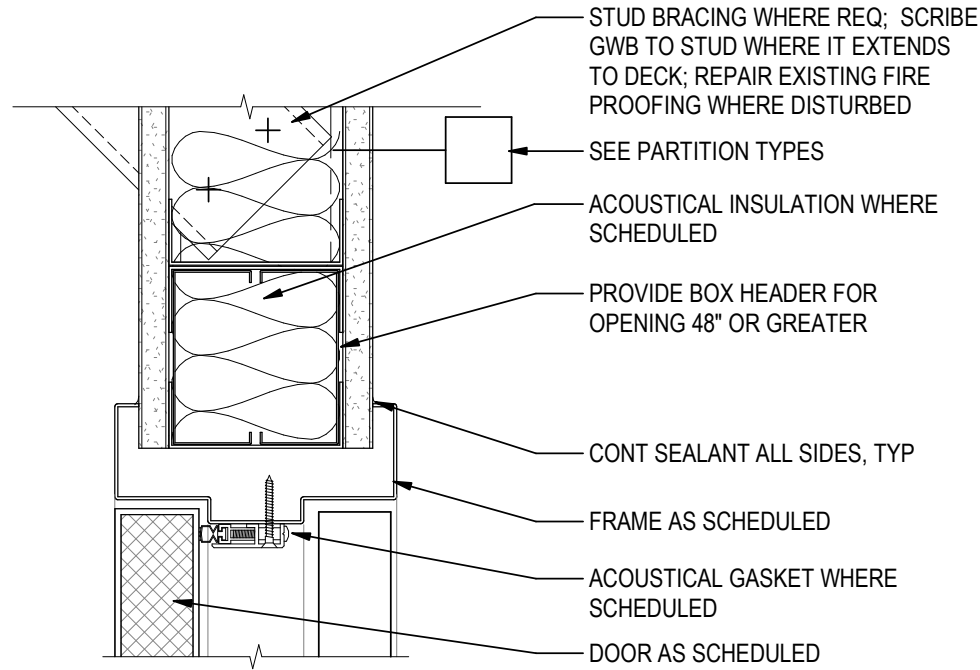
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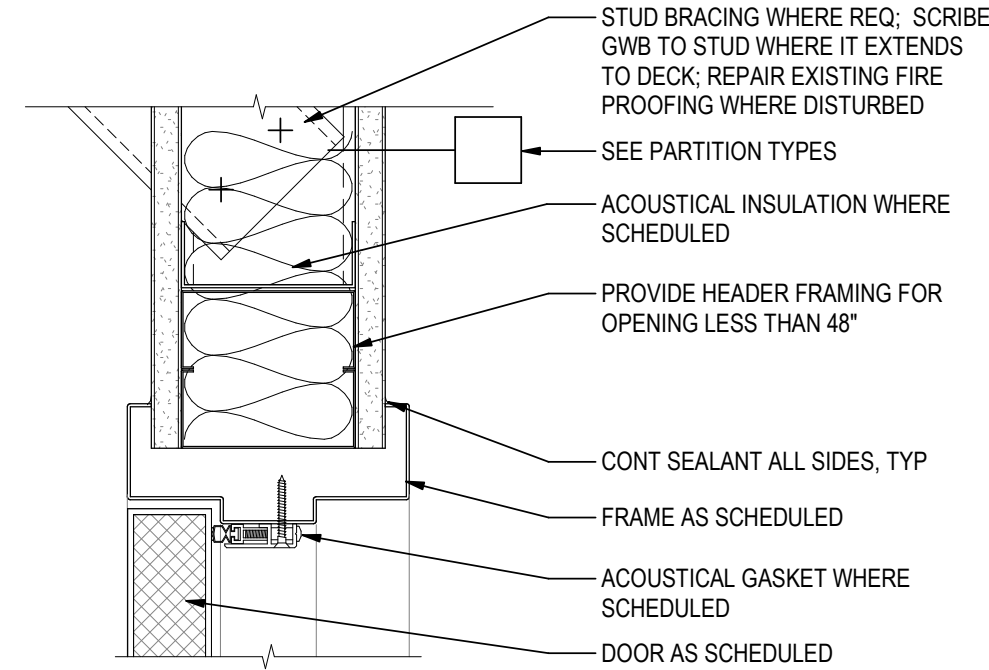


D3
A6-302C
TYP DOOR JAMB DETAIL
3" = 1'-0"

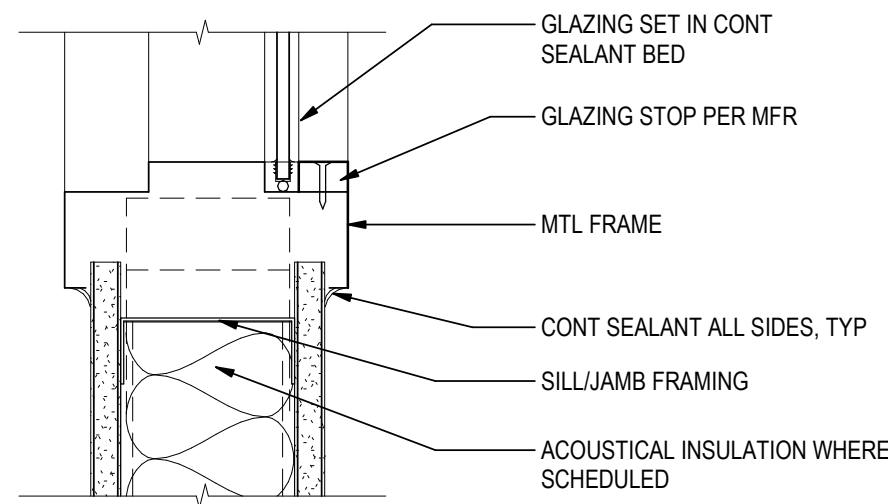


AT OPENINGS 48" WIDE OR GREATER

D4
A6-302C
TYP DOOR HEADER DETAILS
3" = 1'-0"

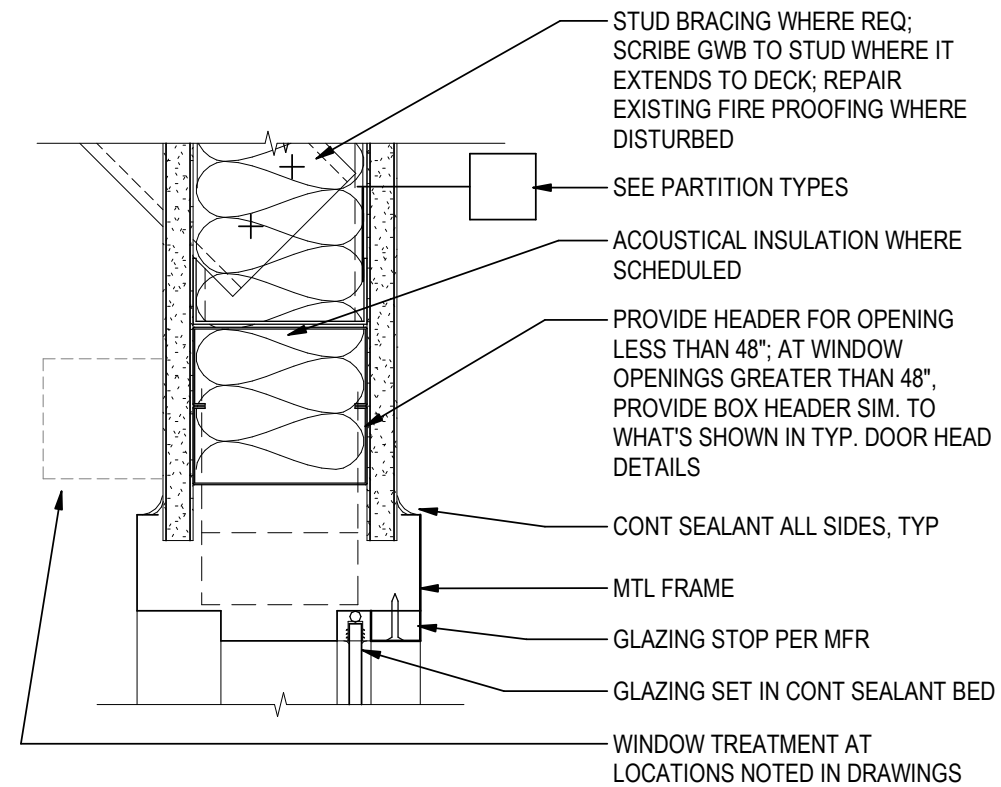


AT OPENINGS LESS THAN 48" WIDE

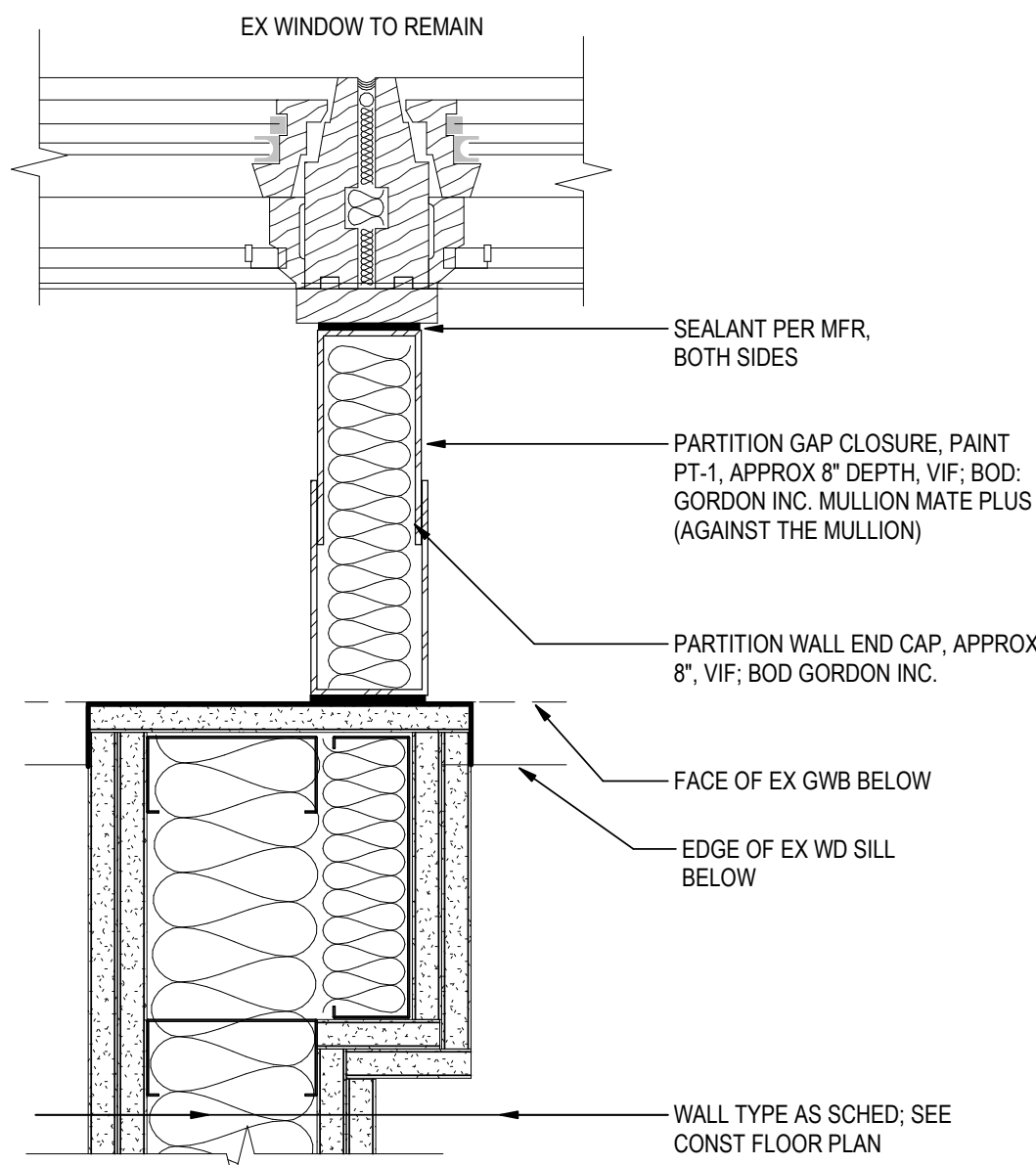


NOTE: JAMB SIM

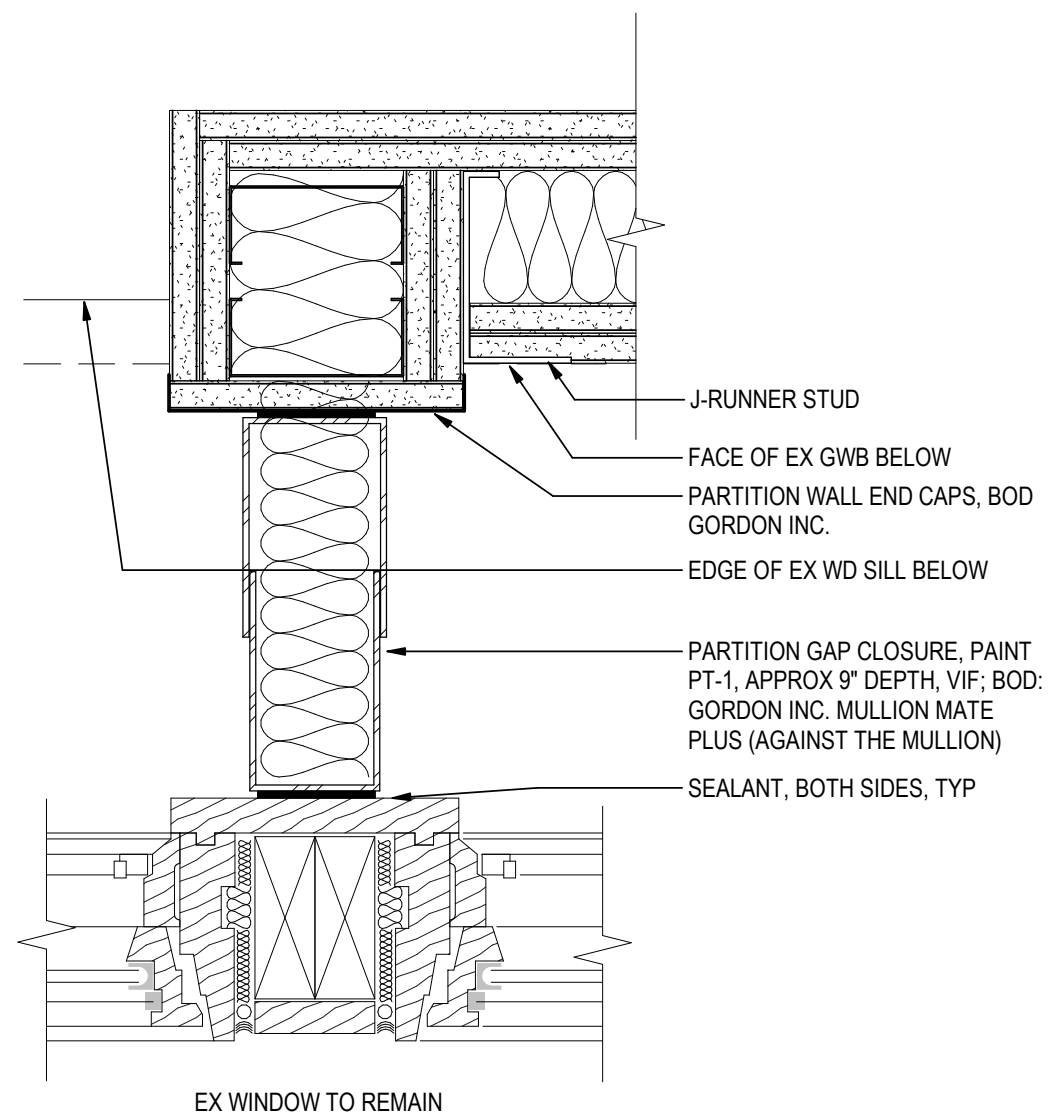
B4
A6-302C
INT HMF WINDOW SILL/JAMB DETAIL
3" = 1'-0"



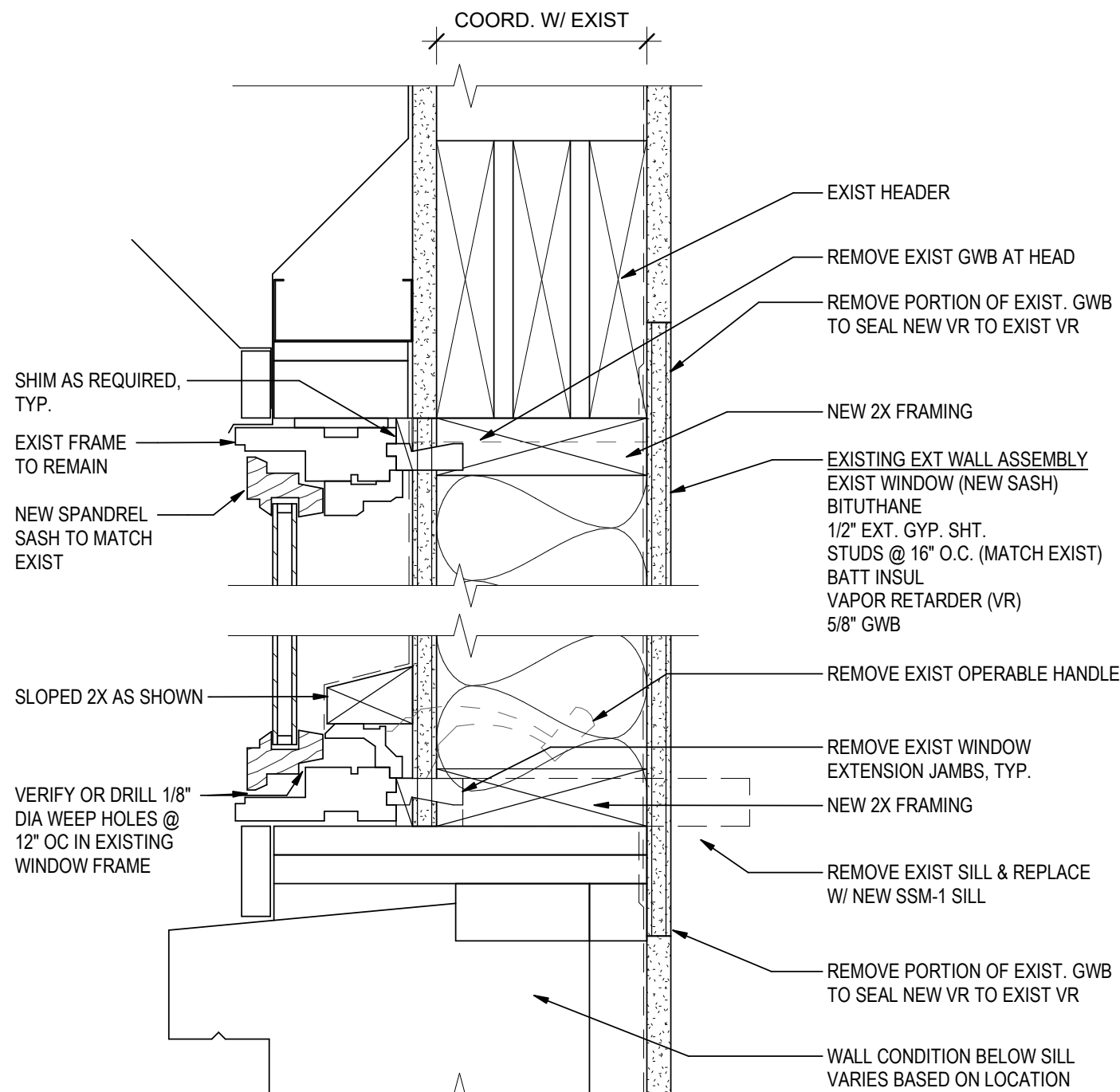
B5
A6-302C
INT HMF WINDOW HEADER DETAIL
3" = 1'-0"



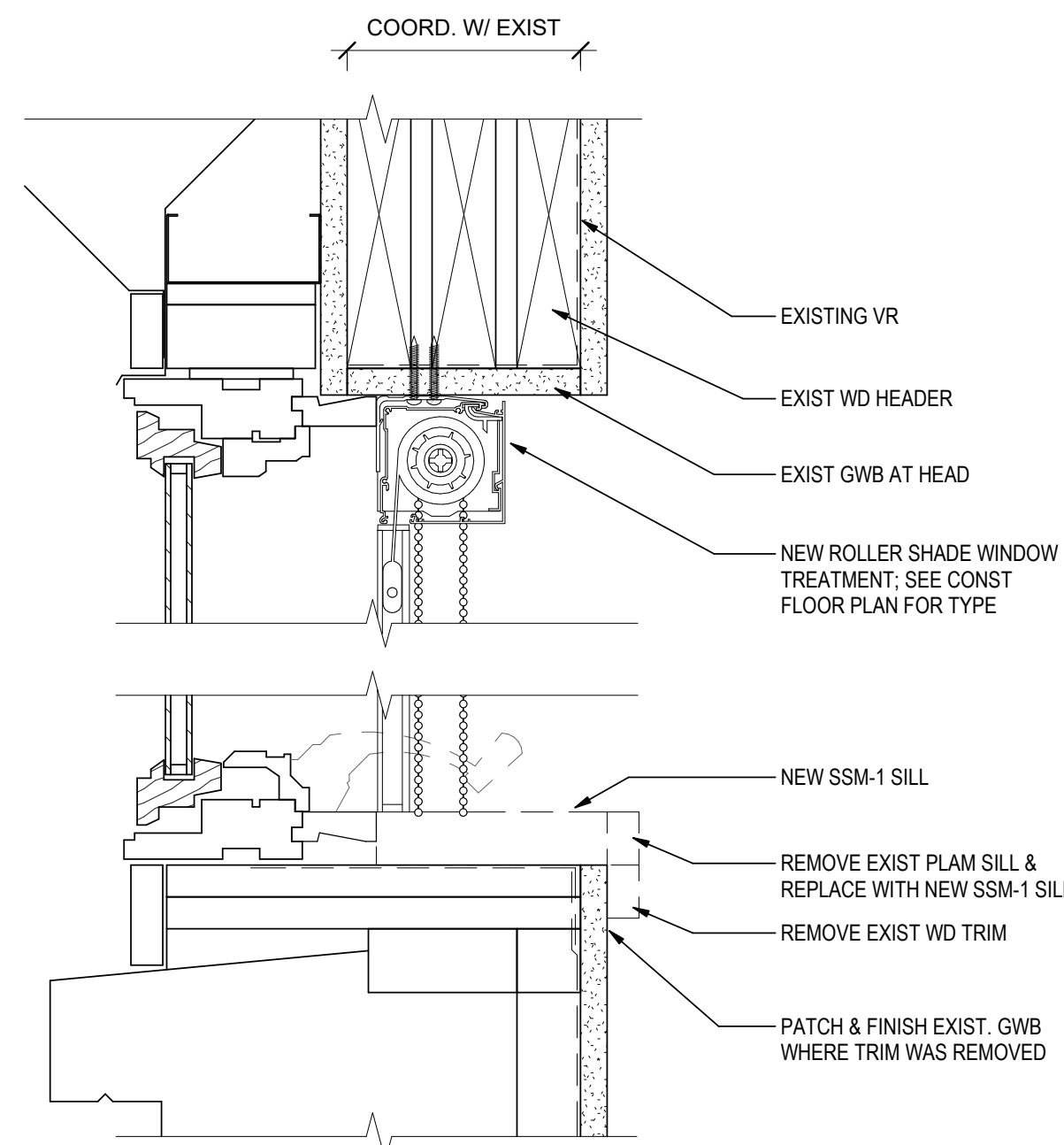
A1
A6-302C
DETAIL - WALL TRANSITION AT EX NARROW MULLION
3" = 1'-0"



A2
A6-302C
DETAIL - WALL TRANSITION AT EX WIDE MULLION
3" = 1'-0"



A3
A6-302C
DETAIL - NEW EXT SPANDREL SASH
3" = 1'-0"



A5
A6-302C
DETAIL - 115B WT-1
3" = 1'-0"

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Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Connector

Project No.:2014331970

Title

INTERIOR DETAILS -
OPENINGS

Scale: 3" = 1'-0"

Revision:3

NUMBER:

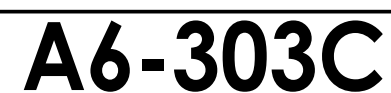
A6-302C



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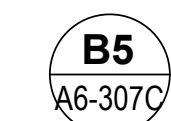
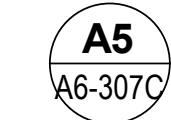
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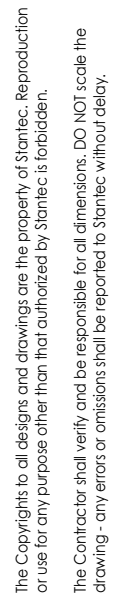







$$6'' = 1'-0''$$

$$6'' = 1'-0''$$


6" = 1'-0"

Palmer Courthouse
Expansion - PSOB
Connector

A6-307C

D

C

B

A

NOTES:
PROVIDE EXIT SIGNAGE PER IBC

EXIT
EXIT

TYPE 1
LOCATE AT GRADE LEVEL EXIT DOORS.

EXIT
EXIT ROUTE

TYPE 2
LOCATE AT EACH ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY, AND EACH DOOR THAT LEADS TO A GRADE LEVEL EXIT BY MEANS OF EXIT ENCLOSURE OR EXIT PASSAGEWAY.

TO EXIT
EXIT

TYPE 3
LOCATE AT EXIT DOOR OF A HORIZONTAL EXIT

LOCATION PER
A4
A6-308C TYP

CHARACTERS AND BRAILLE PER
A2
A6-308C TYP

A1
A6-308C

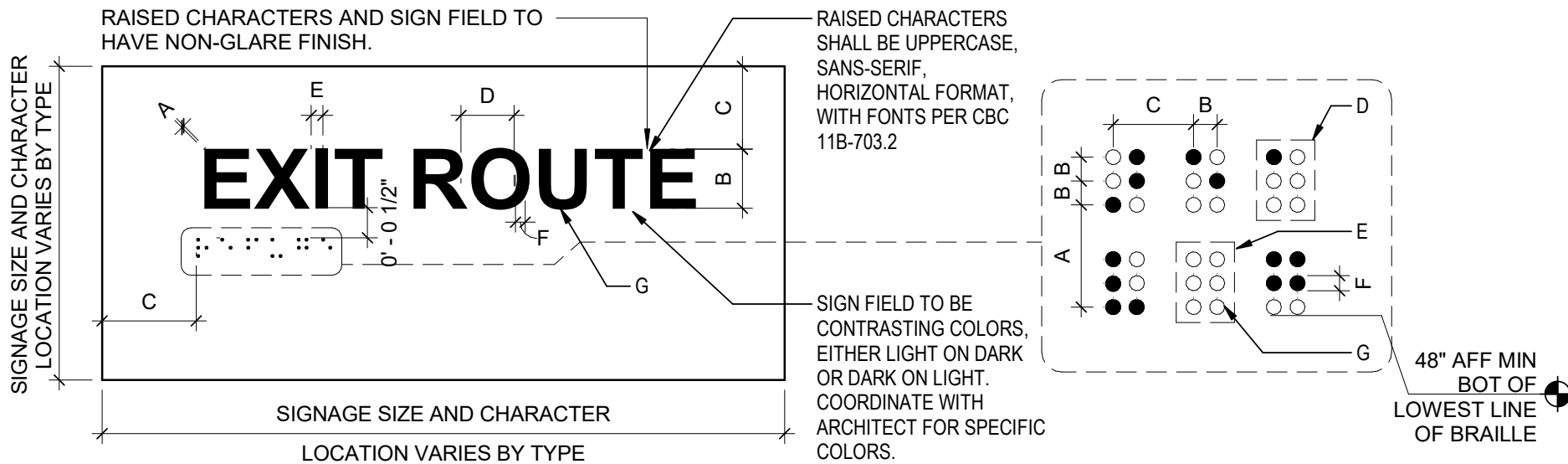
EXIT SIGNS

1/2" = 1'-0"

A2
A6-308C

ACCESSIBLE TACTILE SIGN REQUIREMENTS

6" = 1'-0"



RAISED CHARACTER REQUIREMENTS AND LEGEND:

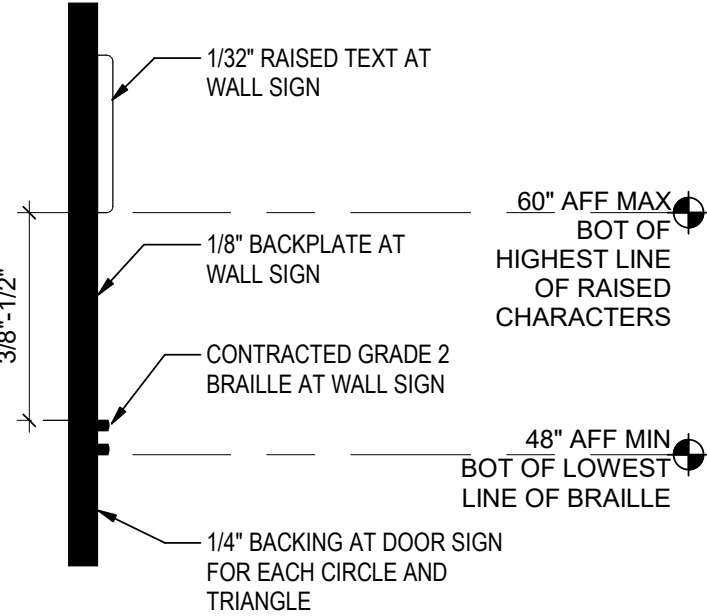
- A. CHARACTERS SHALL BE RAISED 1/32" MINIMUM ABOVE THEIR BACKGROUND.
- B. CHARACTER HEIGHT SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH BASED ON THE UPPERCASE "I".
- C. CHARACTERS SHALL BE SEPARATED FROM ANY RAISED BORDER OR DECORATIVE ELEMENT BY 3/8"
- D. CHARACTER FONT PROPORTION WITH THE UPPERCASE 'O' WIDTH BEING 60 PERCENT MINIMUM TO 110 PERCENT MAXIMUM THE HEIGHT OF THE UPPERCASE 'I'.
- E. CHARACTER STROKE THICKNESS OF THE UPPERCASE 'I' SHALL BE 15 PERCENT MAXIMUM THE HEIGHT OF CHARACTER.
- F. CHARACTER THAT ARE RECTANGULAR IN CROSS SECTION SHALL BE A 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
- G. RAISED CHARACTERS SHALL HAVE EASED EDGES.

BRAILLE REQUIREMENTS AND LEGEND:

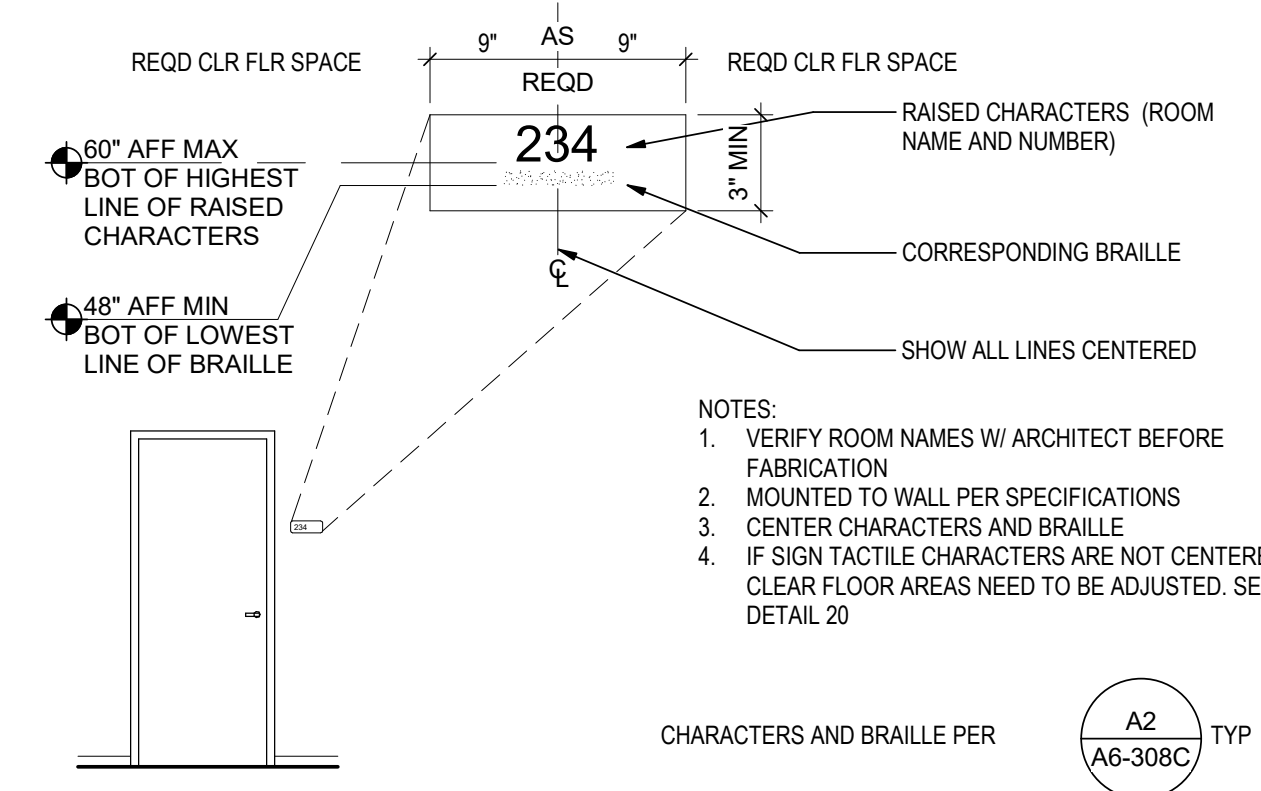
BRAILLE SHALL BE PER CBC 11B-703.3 INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: DISTANCES IN INCHES, MIN TO MAX

- A. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW: 0.395 TO 0.400
- B. DISTANCE BETWEEN TWO DOTS IN THE SAME CELL : 0.100
- C. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS: 0.300
- D. SINGLE BRAILLE CELL
- E. BLANK CELL SPACE BETWEEN WORDS
- F. BASE DIAMETER: 0.059 TO 0.063
- G. NO RAISED DOT

BRAILLE TO BE CONTRACTED GRADE 2, AND DOT HEIGHT TO BE 0.025 TO 0.037



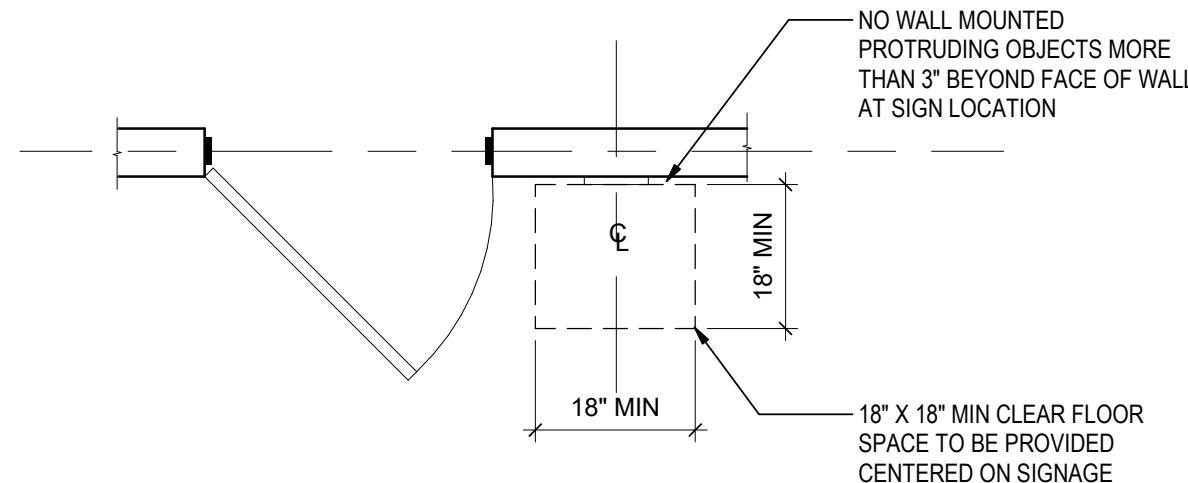
- NOTES:
- PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
 - MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF THE DOOR. PROVIDE 18" SQUARE CLEAR FLOOR AREA AT TACTILE SIGNS.
 - SIGNS AND IDENTIFICATION SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY, IN ACCORDANCE WITH SECTION 11B-703.1.1.2 "INSPECTION"



SIGNS FOR FUNCTIONAL ROOMS AND SPACES

1/4" = 1'-0"

B4
A6-308C



- NOTES:
- WHERE A TACTILE SIGN IS PROVIDED AT DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT EACH LATCH
 - WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF
 - WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THEN THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR
 - WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL
 - WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE
 - SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE
 - TACTILE SIGNS TO BE MOUNTED AT 60" ABOVE THE FLOOR TO THE CENTER OF THE SIGN PROVIDED THAT BASED ON THE SIGN CONTENT THE RAISED CHARACTERS ARE 60" MAXIMUM TO THE BASELINE OF THE HIGHEST RAISED CHARACTER AND 48" MINIMUM TO THE BASELINE OF THE LOWEST RAISED CHARACTER OR BRAILLE

A4
A6-308C

SIGN LOCATION

1/2" = 1'-0"

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Alaska Court System

Palmer Courthouse
Expansion - PSOB
Connector

Project No.:2014331970

Title

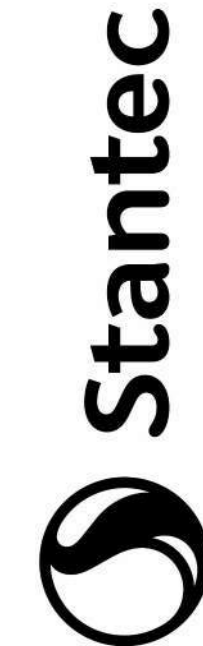
INTERIOR DETAILS -
SIGNAGE

Scale:As indicated

Revision:3

NUMBER:

A6-308C



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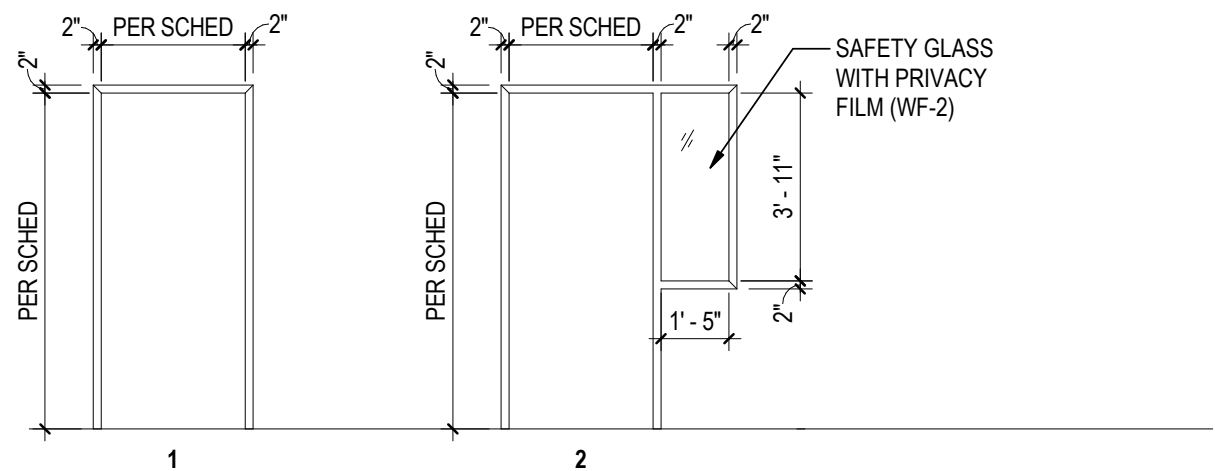
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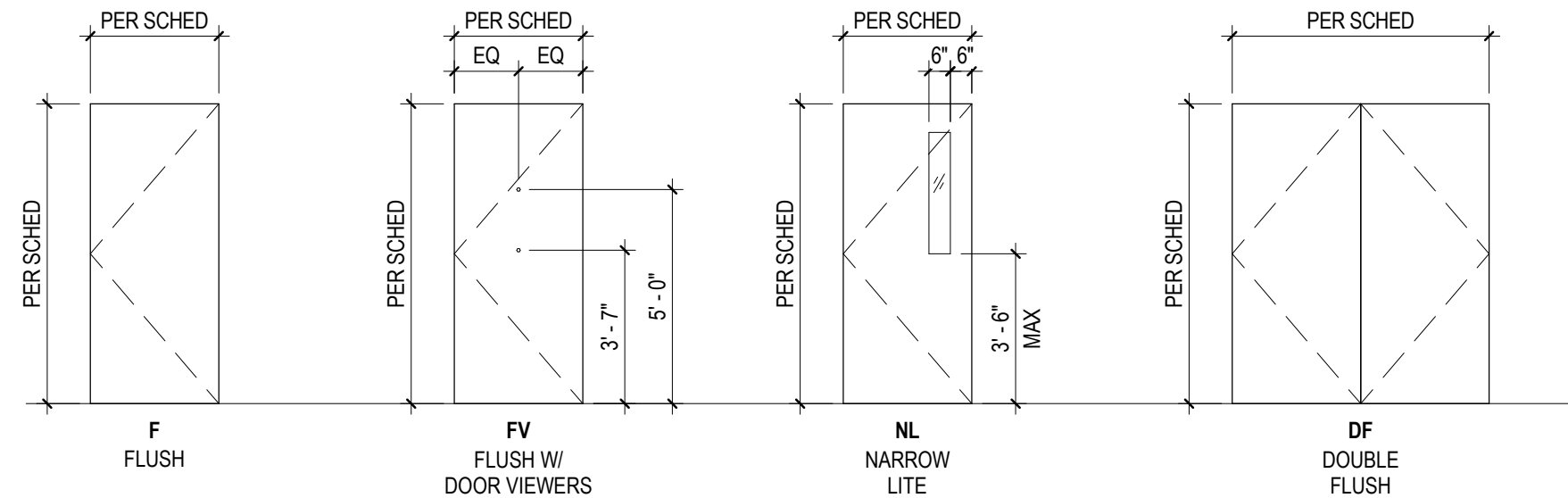
C

D

FRAME TYPES



DOOR TYPES



DOOR SCHEDULE - CONNECTOR

DOOR NO.	ROOM NAME	DOOR							FRAME				DOOR NO.	FIRE LABEL	HDWR SET #	HDWR COMMENTS	SEC SET	CLOSER LOCATION	KICK / MOP	WALL / FLOOR BUMPER	STC SEAL / KIT	DOOR HAND REF	COMMENTS
		WIDTH	HEIGHT	THICK	TYPE	MAT'L	FIN	GLAZ	TYPE	MAT'L	FIN	DETAILS FLOOR TRANS											
N107B	CORRIDOR	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N107B	45 MIN	03	ELEC MORTISE F05 CLASSROOM	CR	107B	KICK	FB	STC FULL KIT	RHR	STC RATED DOOR
N109A	MAGISTRATE OFFICE	3'-0"	7'-0"	0'-2"	F	WD-1	FF	SG+WT-2	2	HM	P-1	THRESH FOR AUTO DB	N109A	-	13	ELEC CYL F82 OFFICE	CR	107A	-	WB	STC FULL KIT	RH	
N109B	MAGISTRATE OFFICE	3'-0"	7'-0"	0'-2"	F	WD-1	FF	SG+WT-2	2	HM	P-1	THRESH FOR AUTO DB	N109B	-	13	ELEC CYL F82 OFFICE	CR	107A	-	WB	STC FULL KIT	RH	
N109C	MAGISTRATE OFFICE	3'-0"	7'-0"	0'-2"	F	WD-1	FF	SG+WT-2	2	HM	P-1	THRESH FOR AUTO DB	N109C	-	13	ELEC CYL F82 OFFICE	CR	107A	-	WB	STC FULL KIT	LH	
N113A	CORRIDOR	6'-0"	7'-0"	0'-2"	F	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N113A		32	ELEC F05/F84 CLASSROOM / PANIC	CR	113A	KICK	CLOSER 90/180 STOP	STC FULL KIT, ASTRAGAL	RHR	STC RATED DOOR
N113B	SOUND LOCK VEST.	6'-0"	7'-0"	0'-2"	F	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N113B		34	PASSAGE PUSH/PULL	-	113B	KICK	WB	STC FULL KIT, ASTRAGAL	RHR	STC RATED DOOR
N113C	DISTRICT COURT	3'-0"	7'-0"	0'-2"	F	WD-1	FF		1	HM	P-1	-	N113C	-	10	ELEC CYL F86 STOREROOM	CR	113C	-	FB	BUMPERS	RHR	CLERK STORAGE
N113D	CORRIDOR	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N113D	-	11	ELEC CYL F84 CLASSROOM	CR	107A	KICK	CLOSER 90 STOP	STC FULL KIT	RHR	STC RATED DOOR
N113E	DISTRICT COURT	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N113E	-	06	ELEC CYL F84 CLASSROOM	CR	107B	KICK	FB	STC FULL KIT	LHR	
N113F	DISTRICT COURT	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N113F	-	06	ELEC CYL F84 CLASSROOM	CR	107B	KICK	WB	STC FULL KIT	RHR	
N114	JURY DELIBERATION	3'-0"	7'-0"	0'-2"	F	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N114	-	07	ELEC CYL F84 CLASSROOM	CR	107B	KICK	WB	STC FULL KIT	RH	
N115B	HYBRID COURT	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N115B	-	04	ELEC CYL F84 CLASSROOM	CR	115B	-	FB	STC FULL KIT	LHR	
N115C	SOUND LOCK VEST.	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N115C	-	12	ELEC MORTISE F05 CLASSROOM	CR	102	KICK	WB	STC FULL KIT	LH	STC RATED DOOR
N116A	HYBRID COURT	3'-0"	7'-0"	0'-2"	F	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N116A	-	15	ELEC MORTISE F05 CLASSROOM	CR	102	KICK	WB	STC FULL KIT	LH	STC RATED DOOR
N116B	HYBRID COURT	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	THRESH FOR AUTO DB	N116B	-	04	ELEC CYL F84 CLASSROOM	CR	115B	-	FB	STC FULL KIT	LHR	
N117	NURSING	3'-0"	7'-0"	0'-2"	FV	WD-1	FF		1	HM	P-1	-	N117	45 MIN	05	CYL F76 PRIVACY W/INDICATOR	CR	V102C	KICK	WB	PERIM SEAL	RH	
N118	STORAGE/ELEC CLOSET	3'-0"	7'-0"	0'-2"	F	WD-1	FF		1	HM	P-1	-	N118	45 MIN	08	ELEC MORTISE F07 STOREROOM	-	-	KICK	WB	BUMPERS	RH	
R106	CORRIDOR	3'-0"	7'-0"	0'-2"	F	EX WD-1	EX		1	EX HM	EX P-1	EX THRESH W/ AUTO DB	R106	-	31		EX	EX 107A	EX KICK	EX WB	EX KIT	EX RHR	REMOVE EX PANIC HW
V102C		3'-0"	7'-0"	0'-2"	FL	EX AL	EX FF	EX	1	EX AL	EX FF	-	V102C	-	02	EX, NEW ELEC STRIKE	CR	EX V102C	EX	EX	EX	EX RHR	NEW CR (ELEC STRIKE) AT EX EXT DOOR
X105	CORRIDOR	3'-0"	7'-0"	0'-2"	FV	EX WD-1	EX		1	EX HM	EX P-1	EX THRESH W/ AUTO DB	X105	-	26	EX, NEW ELEC STRIKE AND LOCKSET ONE SIDE, EX PANIC	CR	EX 106	EX KICK	EX WB	EX KIT	EX RHR	EX PANIC BAR, REPLACE EX CYPHER LOCKSET W/ NEW MORTISE LOCKSET, NEW CR (ELEC STRIKE) AT EX DOOR, NEW DOOR VIEWER FROM 106-105
X111A	CORRIDOR	3'-0"	7'-0"	0'-2"	F	EX WD-1	EX		1	EX HM	EX P-1	EX THRESH W/ AUTO DB	X111A	-	26	EX, NEW ELEC STRIKE AND LOCKSET ONE SIDE, EX PANIC	CR	EX 111	EX KICK	-	EX KIT	EX LHR	REPLACE EX CYPHER LOCKSET W/ NEW MORTISE LOCKSET, NEW CR (ELEC STRIKE) AT EX DOOR W/ EX PANIC HW
X115A	HYBRID COURT	3'-0"	7'-0"	0'-2"	F	EX WD-1	EX		1	EX HM	EX P-1	EX THRESH W/ AUTO DB	X115A	-	27	EX, NEW ELEC STRIKE	CR	EX 115A	EX KICK	EX	EX KIT	EX RH	NEW CR (ELEC STRIKE) AT EX DOOR W/ EX MORTISE LOCKSET, EX ACOUSTIC KIT

GENERAL NOTES - DOOR, FRAME, HARDWARE & WINDOW

- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING.
- ALL DOORS, FRAMES, HARDWARE, WINDOWS, AND FINISHES TO BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE FLOOR PLANS AND INT. ELEVATIONS FOR DOOR AND WINDOW TYPES, FINISH LOCATIONS AND EXTENTS, AND ADDITIONAL INFORMATION NOT INCLUDED IN SCHEDULE, INCLUDING BUT NOT LIMITED TO DIMENSIONS AND FINISH INFORMATION.
- SEE INTERIOR DETAIL SHEETS FOR TYPICAL DOOR AND WINDOW HEADER, SILL, JAMB, AND MISC. DETAILS.
- OFOI CARD READERS (W/ CFCI JBOX & CONDUIT W/ PULL) & OFOI CAMERAS ARE NOT IN A/E SCOPE OF WORK. CONTRACTOR TO COORDINATE CARD READER AND CAMERA LOCATIONS AND INSTALLATION WITH OWNER PRIOR TO SUBMITTING DOOR HARDWARE SUBMITTAL. DOOR HARDWARE SUBMITTAL TO INCLUDE ASSOCIATED ELECTRIFIED HARDWARE AT DOORS WITH CARD READERS.

DOORS AND FRAMES

- WOOD DOORS: A/WI PREMIUM GRADE WOOD DOORS WITH GLUED BLOCK SOLID CORED AND A/WI TYPE I STANDARD THICKNESS WOOD FACE VENEERS OF I.S. PROVIDE 5-PLY OR 7-PLY FACE PANELS OF **PREMIUM GRADE ROTARY SLICED NATURAL BIRCH**. MINIMUM PLY THICKNESS SHALL BE 1/40 OF AN INCH. DOORS SHALL BE CONSTRUCTED WITH TYPE II WATER-RESISTANT ADHESIVE. DOORS SHALL BE FACTORY-FINISHED WITH A TRANSPARENT COATING. PROVIDE LABELS AND/OR CERTIFICATES FROM A/WI OR W/ CERTIFICATION PROGRAM INDICATING THAT DOORS COMPLY WITH GRADES SPECIFIED.
- SOUND RATED DOORS: WHERE SCHEDULED, PROVIDE DOORS WITH AN STC RATING OF 45 OR GREATER.
- HOLLOW METAL DOOR FRAMES: PROVIDE FULLY WELDED FRAMES.

HARDWARE

- SEE FLOOR PLAN DRAWINGS FOR DOORS WITH CARD READERS, COORDINATE WITH ELECTRICAL.
- FOR DOOR HARDWARE GROUPS, SEE PROJECT SPECIFICATIONS.
- KEYING: FACILITY KEY TYPE, KEYING SYSTEM, ACCESS CONTROL, AND INTRUSION DETECTION SYSTEM TO BE COORDINATED WITH CLIENT.
- HINGES: WHERE HINGE IS EXPOSED TO PUBLIC AREA, PROVIDE NRP (NON-REMOVEABLE PIN) AND/OR TAMPER PROOF HINGES.
- MORTISE LOCKS AND LATCHES: GRADE 1 (PUBLIC), GRADE 2 (STAFF).
- BORED LOCKS AND LATCHES: GRADE 1 (PUBLIC), GRADE 2 (STAFF).
- AUXILIARY LOCKS: GRADE 1.
- EXIT DEVICES: GRADE 1.
- DOOR BOLTS: AUTOMATIC LATCHING FLUSH BOLTS
- CLOSERS: GRADE 1.
- FINISHES: BHMA A156.18. HARDWARE SHALL HAVE BHMA 630 FINISH (SATIN STAINLESS STEEL), UNLESS SPECIFIED OTHERWISE. PROVIDE ITEMS NOT MANUFACTURED IN STAINLESS STEEL IN BHMA 626 FINISH (SATIN CHROMIUM PLATED) OVER BRASS OR BRONZE, EXCEPT SURFACE DOOR CLOSERS WHICH SHALL HAVE ALUMINUM PAINT FINISH, AND EXCEPT STEEL HINGES WHICH SHALL HAVE BHMA 662 FINISH (SATIN CHROMIUM PLATED). EXIT DEVICES MAY BE PROVIDED IN BHMA 626 FINISH IN LIEU OF BHMA 630 FINISH. EXPOSED PARTS OF CONCEALED CLOSERS SHALL HAVE FINISH TO MATCH LOCK AND DOOR TRIM. HARDWARE FOR ALUMINUM DOORS SHALL BE FINISHED TO MATCH THE DOORS.
- GLAZING: PROVIDE SAFETY GLAZING WHERE REQUIRED PER IBC.

EXISTING MANUFACTURERS (CONNECTOR):

DOORS:

- VT INDUSTRIES
- EXIT DEVICES, POWER TRANSFERS:
 - VON DUPRIN-ALLEGION
- ELEC AND NON-ELEC CYLINDRICAL AND MORTISE LOCKSETS:
 - SCHLAGE-ALLEGION
- SMALL FORMAT INTERCHANGEABLE CORES:
 - MEDECO-KEYMARK X4

ELECTRIC STRIKES, POWER SUPPLIES:

- HES-ASSA ABL0Y

CLOSERS:

- LCN

HINGES:

- HAGER
- ACOUSTIC STC KITS, THRESHOLDS, ASTRAGALS, GASKETING:
 - NATIONAL GUARD
- DOOR STOPS, FLUSH BOLTS, FLAT GOODS
 - TRIMCO

OFOI CARD READERS (W/ CFCI: JBOX, CONDUIT W/ PULL, & ASSOC. ELEC. HW)

- HID MULTICLASS SE

WINDOWS (CONNECTOR):

- EXISTING WINDOW FILM: VISTA WINDOW FILM LUMAR R-20 SR CDF
- NEW UNRATED GLAZING TO BE 1/4" TEMPERED SAFETY GLAZING, UNO.

Alaska Court System

Palmer Courthouse
Expansion - PSOB
Connector

Project No.:2014331970

Title

DOOR, WINDOW, &
FRAME SCHEDULES /
TYPES

Scale:As indicated

Revision:3

NUMBER:

A6-901C

Consultant

Permit/Seal



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A

B

C

D

FINISH MATERIAL LEGEND - CONNECTOR

ACT-1 – ACOUSTIC CEILING TILE
<NO SUBSTITUTIONS>
MFR: USG
STYLE: RADAR 2410, SQUARE EDGE
SIZE: 2x4
ACOUSTICS: 0.55 NRC / 35 CAC
COLOR: FLAT WHITE

AD-1 – ACOUSTIC DRAPERY
MFR: SNOWSOUND
TYPE: FIBER 3 MELANGE (NRC 1.0)
COLOR: 304 GRAY BEIGE
ACCESSORIES: RECESSED TRACK IN ACT CEILING

AP-1 – ACOUSTIC PRIVACY PANEL
MFR: 3FORM
STYLE: HUSH SCREEN – ABSTRACT CIRCLES
COLOR: STEEL BLUE
MOUNTING: CEILING & FLOOR CABLE MOUNTED

CG-1 – CORNER GUARD
MFR: INPRO
TYPE: 160 SURFACE MOUNT, 2" WINGSPAN
HEIGHT: 4"
FINISH: ANTIQUE WHITE

CG-2 – CORNER GUARD
MFR: FRY REGLET
TYPE: MWPOSC25R, MILLWORK 1/4" POST OUTSIDE CORNER FINISH
SIZE: VERIFY WITH WALL PANEL MFR
FINISH: ANODIZED ALUMINUM

CLG-1 – CEILING
MFR: ARMSTRONG
TYPE: GYPSUM CEILING
COLOR: WHITE

CRL-1 – CHAIR RAIL
MFR: TBD
MATERIAL: WOOD (BIRCH)
SIZE: 1X4

CPT-1 – CARPET
MFR: SHAW CARPET
STYLE: VAPOR TILE 5T036
COLOR: POETIC 37320
INSTALLATION: BOXED IN

CPT-2 – CARPET
MFR: SHAW CARPET
STYLE: MICA TILE 5T014
COLOR: AZURITE 14315
INSTALLATION: MONOLITHIC

CPT-3 – CARPET
MFR: SHAW CARPET
STYLE: MICA TILE 5T014
COLOR: GALENA 14515
INSTALLATION: MONOLITHIC

CT-1 – CERAMIC TILE (WALL)
MFR: DALTILE
TYPE: LINDEN POINT
COLOR: GRIGIO LP21
SIZE: 12X24
PATTERN: VERTICAL / STACKED BOND

CT-2 – CERAMIC TILE (FLOOR)
MFR: DALTILE
TYPE: VOLUME 1.0
COLOR: ELECTRIC MOSS VL79
SIZE: 12X24
PATTERN: STACKED BOND

PL-1 – PLASTIC LAMINATE
MFR: FORMICA
COLOR: NATURAL BIRCH 7481

PT-1 – PAINT (GENERAL)
MFR: SHERWIN-WILLIAMS
COLOR: ALABASTER SW 7008
FINISH: SATIN

PT-2 – PAINT (ACCENT)
MFR: SHERWIN-WILLIAMS
COLOR: MOORSTONE 9630
FINISH: SATIN

RB-1 – RESILIENT WALL BASE
MFR: TARKETT
STYLE: MILLWORK REVEAL
COLOR: TA-4 GATEWAY
HEIGHT: 6"

RB-2 – RESILIENT WALL BASE
MFR: TARKETT
STYLE: STANDARD WALL BASE
PROFILE: COVED
COLOR: TA-4 GATEWAY
HEIGHT: 4"

RB-3 – RESILIENT WALL BASE
MFR: TARKETT
STYLE: STANDARD WALL BASE
PROFILE: COVED
COLOR: TA-4 GATEWAY
HEIGHT: 6"

SN-1 – STAIR NOSING
MFR: ROPPE
TYPE: #7 UNDERLAP CARPET NOSING
COLOR: STEEL BLUE

SSM-1 – SOLID SURFACE
MFR: FORMICA
COLOR: BLANCO TERRAZZO 742

WF-1 - WINDOW FILM (ONE WAY MIRROR)
MFR: TBD
TYPE: ONE WAY MIRROR

WF-2 – WINDOW FILM (PRIVACY)
MFR: 3M
TYPE: PRIVACY / SEMI-TRANSPARENT

WP-1 – WALL PANEL, WOOD
TYPE: PLYWOOD WITH BIRCH VENEER
FINISH: CLEAR, SEMI-GLOSS
THICKNESS: 3/4"
EDGE: BUTT-JOINT
ATTACHMENT: METAL CLEATS

WP-2 – WALL PANEL, LAMINATE
MFR: FORMICA
TYPE: LAMINATE PANEL
COLOR: NATURAL BIRCH 7481
FINISH: CLEAR, SEMI-GLOSS
EDGE: BUTT-JOINT
ATTACHMENT: METAL CLEATS

WP-5 – WALL PANEL, FABRIC (ACOUSTIC)
MFR: CARNEGIE
COLOR: ARCTIC 7360A

WT-1 - ROLLER SHADES W/ CHANNEL - MANUAL
MFR: HUNTER DOUGLAS
TYPE: RB 500+ STD BRACKET SET L BLOCK OUT-INSIDE MOUNT
ACCESSORIES: FRONT FASCIA & BASE COVERS
PROFILE L, BLOCK OUT CHANNEL
FABRIC: SHEERWEAVE 7500, 0% OPENNESS, LIMESTONE

WT-2 - ROLLER SHADES - MANUAL
MFR: HUNTER DOUGLAS
TYPE: RB 500+ STD BRACKET SET L BLOCK OUT-INSIDE MOUNT
ACCESSORIES: FRONT FASCIA & BASE COVERS
PROFILE L
FABRIC: SHEERWEAVE 4901 (NRC 0.60), 1% OPENNESS, BIRCH

WT-3 - ROLLER SHADES - MOTORIZED
MFR: HUNTER DOUGLAS
TYPE: RB BASICS AUTOMATED STD BRACKET SET L-INSIDE MOUNT
ACCESSORIES: FRONT FASCIA & BASE COVERS
PROFILE L
FABRIC: SHEERWEAVE 4901 (NRC 0.60), 1% OPENNESS, BIRCH

ROOM FINISH SCHEDULE - CONNECTOR

NUMBER	NAME	BASE FINISH	FLOOR FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COMMENTS
JA-115A	HYBRID COURT	RB-1	EXIST	PT-1 / CR-1 / WP-5	PT-1 / WP-2	PT-1 / CRL-1	PT-1 / CRL-1 / WP-5	EX/ ACT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-116	HYBRID COURT	RB-1	EXIST	PT-1 / CR-1	PT-1 / CRL-1 / WP-5	PT-1 / CRL-1	PT-1 / WP-2	EX/ ACT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-109A	MAGISTRATE OFFICE	RB-2	EXIST	PT-1	PT-1	PT-1	PT-2	ACT-1	
JA-109B	MAGISTRATE OFFICE	RB-2	EXIST	PT-1	PT-1	PT-1	PT-2	ACT-1	
JA-109C	MAGISTRATE OFFICE	RB-2	EXIST	PT-1	PT-1	PT-1	PT-2	ACT-1	
JA-113B	DISTRICT COURT	RB-1	SEE FINISH PLAN	WP-1 / WP-5 / PT-1	WP-1 / WP-5 / PT-1	WP-1 / WP-5 / PT-1	WP-1 / WP-5 / PT-1	EX/ ACT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-114	JURY DELIBERATION	RB-2	EXIST	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
JA-102	CORRIDOR	RB-1	EXIST	PT-1	PT-1	PT-1	PT-1	EX	SEE CONST. PLAN FOR WALL INFILL
JA-103	M. W/C	CT-1	SEE FINISH PLAN	CT-1	CT-1	CT-1	CT-1	PT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-104	W. W/C	CT-1	SEE FINISH PLAN	CT-1	CT-1	CT-1	CT-1	PT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-110	W/C	CT-1	SEE FINISH PLAN	CT-1	CT-1	CT-1	CT-1	PT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-112	W/C	CT-1	SEE FINISH PLAN	CT-1	CT-1	CT-1	CT-1	PT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-111	W/C VEST.	RB-2	SEE FINISH PLAN	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	SEE CONST. PLAN FOR WALL INFILL
JA-106	MJ ASSIST. OFFICE	RB-3	SEE FINISH PLAN	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
JA-105	CORRIDOR	RB-1	SEE FINISH PLAN	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
V102A	VESTIBULE	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
JA-107A	CORRIDOR	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-116D	W/C	CT-1	EXIST	CT-1	CT-1	CT-1	CT-1	PT-1	SEE ELEVATIONS FOR ALL 4 WALLS
JA-116C	ADA W/C	CT-1	SEE FINISH PLAN	CT-1	CT-1	CT-1	CT-1	PT-1	
JA-116B	SOUND LOCK VEST.	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
JA-113A	SOUND LOCK VEST.	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
JA-115B	SOUND LOCK VEST.	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
JA-118	STORAGE/ELEC CLOSET	RB-2	EXIST	PT-1	PT-1	PT-1	PT-1	EX/ ACT-1	
JA-113C	STORAGE	RB-2	EXIST	PT-1	PT-1	PT-1	PT-1	ACT-1	
JA-107B	CORRIDOR	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
JA-117	NURSING	RB-2	CPT-2	PT-1	PT-1	PT-1	PT-2	ACT-1	
JA-113C	STORAGE	RB-2	SEE FINISH PLAN	PT-1	PT-1	PT-1	PT-1	ACT-1	
E108	ELEC	RB-2	EXIST	PT-1	PT-1	PT-1	PT-1	EX	

GENERAL FINISH NOTES

GENERAL

- SEE FLOOR PLANS, REFLECTED CEILING PLANS, FINISH PLANS, AND INTERIOR ELEVATIONS/DETAILS FOR ADDITIONAL FINISH LOCATIONS NOT NOTED IN ROOM FINISH SCHEDULE.
- ALL INTERIOR FINISHES TO MEET REQUIREMENTS OF IBC CHAPTER 8.

CEILINGS AND CEILING FINISHES

- ALL NEW CEILING TILES ARE TO BE COMPATIBLE WITH EXISTING GRID SIZE AND STYLE.
- ALL ACOUSTICAL TEGULAR TILES WITH FIELD CUT EDGES TO BE PAINTED TO MATCH FACE OF TILE.
- ALL CEILING ACCESS PANELS TO MATCH SCHEDULED CEILING FINISH, WHERE REQUIRED.

PARTITIONS

- REFER TO LIFE SAFETY PLAN AND FLOOR PLAN FOR EXISTING FIRE-RATED AND SMOKE- RATED BARRIERS AND PARTITIONS.

WALL FINISH

- FINISH LEVELS OF GYPSUM BOARD PANELS:
 - LEVEL 1: CEILING PLENUM AREAS AND OTHER CONCEALED SPACES.
 - LEVEL 4: PANEL SURFACES EXPOSED TO VIEW UNO.
- ALL INTERIOR PARTITIONS AND WALLS IN SCOPE OF WORK AREA ARE TO BE PAINTED UNO.
- FINAL COAT OF PAINT TO BE EXECUTED UNDER FINAL LIGHTING CONDITIONS.
- SCHEDULED WALL FINISHES TO BE APPLIED ON ALL SURFACES, INCLUDING WALL RETURNS AT WINDOW AND DOOR LOCATIONS, UNO.
- WALL ACCENT DESIGNATIONS INDICATED ON FLOOR/FINISH PLAN ARE IN ADDITION TO GENERAL WALL FINISHES INDICATED IN FINISH SCHEDULE.
- CAULK AROUND ALL DOOR FRAMES, WHERE FRAME ABUTS TO FACE OF GWB. CAULK FRAMES PRIOR TO LAST COAT OF PAINT APPLIED TO PARTITIONS AND FRAMES.
- ALL ACCESS DOORS AND WALL PANELS TO BE PAINTED TO MATCH SCHEDULED WALL FINISH, UNO.

FLOORING & WALL BASE

- PRIOR TO FLOORING INSTALLATION, VERIFY THAT SLAB MEETS FLATNESS AND LEVELNESS REQUIREMENTS. PROVIDE SELF-LEVELING UNDERLAYMENT COMPOUND AS REQUIRED TO MEET FLOOR FINISH REQUIREMENTS.
- FLOOR TRANSITION TO ABUT AT CENTER OF DOOR IN CLOSED POSITION, UNO.
- FLOORING TO BE INSTALLED UNDERNEATH ALL NEW CASEWORK UNO.
- DO NOT TERMINATE WALL BASE AT OUTSIDE CORNER, UNO.
- PATCH AND REPAIR (E) CARPET AT NIS AREAS AFFECTED BY SCOPE OF WORK. REUSE DEMO'D CARPET OR COORDINATE WITH CLIENT FOR CARPET TILE EXTRA STOCK AVAILABILITY.

ACOUSTICAL WALL PANELS & SOUND ABSORBING WALL UNITS

- DO NOT ADHERE ACOUSTICAL WALL PANELS TO PARTITIONS. MECHANICALLY ATTACH ACOUSTICAL WALL PANEL USING Z-CLIPS FOR FUTURE REMOVAL AND REINSTALLATION, UNO.
- SEE FINISH PLAN, INTERIOR ELEVATIONS, AND INTERIOR DETAILS FOR ADDITIONAL INFORMATION.

WALL PROTECTION

- NEW CORNER GUARDS TO MATCH EXISTING CORNER GUARDS, SEE FINISH MATERIAL LEGEND.
- AT CHAR RAIL LOCATIONS, TERMINATE AND RETURN TO WALL 2" FROM ALL VERTICAL INTERRUPTIONS. VERTICAL INTERRUPTIONS INCLUDE CORNER GUARDS, DOOR/WINDOW FRAMES, AND WALL MOUNTED EQUIPMENT/ACCESSORIES, UNO.

WINDOW TREATMENT

- PROVIDE WINDOW TREATMENT(S) AT LOCATIONS NOTED ON FLOOR PLANS, FINISH PLANS, INTERIOR ELEVATIONS, FINISH LEGEND & SCHEDULE, & DOOR LEGEND & SCHEDULE.

CASEWORK & COUNTERS

- PROVIDE IN-WALL BLOCKING / STRAPPING AS REQUIRED FOR ATTACHMENT OF ALL WALL HUNG / MOUNTED CASEWORK, INCLUDING HARDWARE/ACCESSORIES.
- GRAIN DIRECTION OF CASEWORK AND MILLWORK TO RUN VERTICALLY, UNO.
- SOLID SURFACING COUNTERTOPS: 1/2-INCH THICK MINIMUM, AWH CUSTOM GRADE, WITH FRONT EDGE BUILT UP WITH THE SAME MATERIAL & ROUNDED OUTSIDE CORNERS AND EASED EDGES.
- COUNTERTOPS TO HAVE ONE-INCH (1") OVERHANG ON SIDES OF CASEWORK, UNO.
- COUNTERTOPS ADJACENT TO EQUIPMENT TO HAVE ONE-HALF-INCH (1/2") OVERHANG ON SIDES OF CASEWORK.
- AT GAPS WHERE BACKSPLASH AND CASEWORK ABUTS WALL & AT SEAMS WHERE NON-INTEGRAL BACKSPLASH ABUTS COUNTERTOP, PROVIDE CLEAR SILICONE SEALANT.

SIGNAGE - CFCI

- CONTRACTOR TO COORDINATE SIGNAGE WITH CLIENT.
- SIGNAGE TYPE, STYLE, COLOR, ETC. TO MATCH EXISTING PER CLIENT SIGNAGE STANDARD.
- SEE CODE PLAN AND SIGNAGE DETAILS FOR ADDITIONAL CODE REQUIRED EGRESS SIGNAGE LOCATIONS AND TYPES.

Consultant

Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Connector

Project No.:2014331970

Title

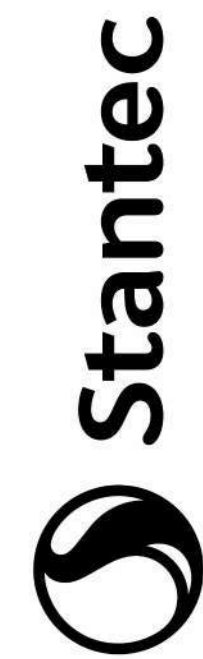
FINISH SCHEDULE AND
LEGEND

Scale:As indicated

Revision:3

NUMBER:

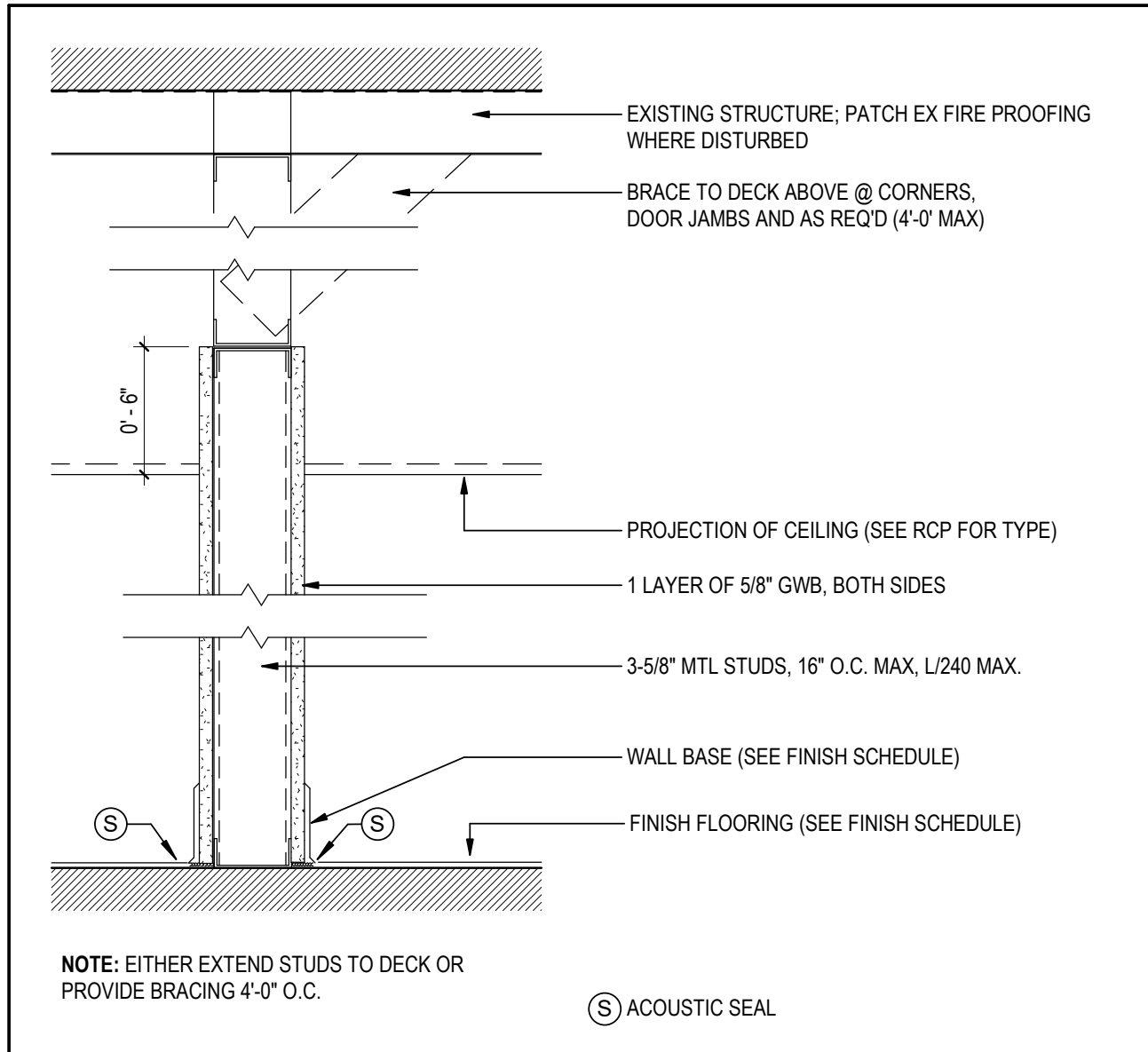
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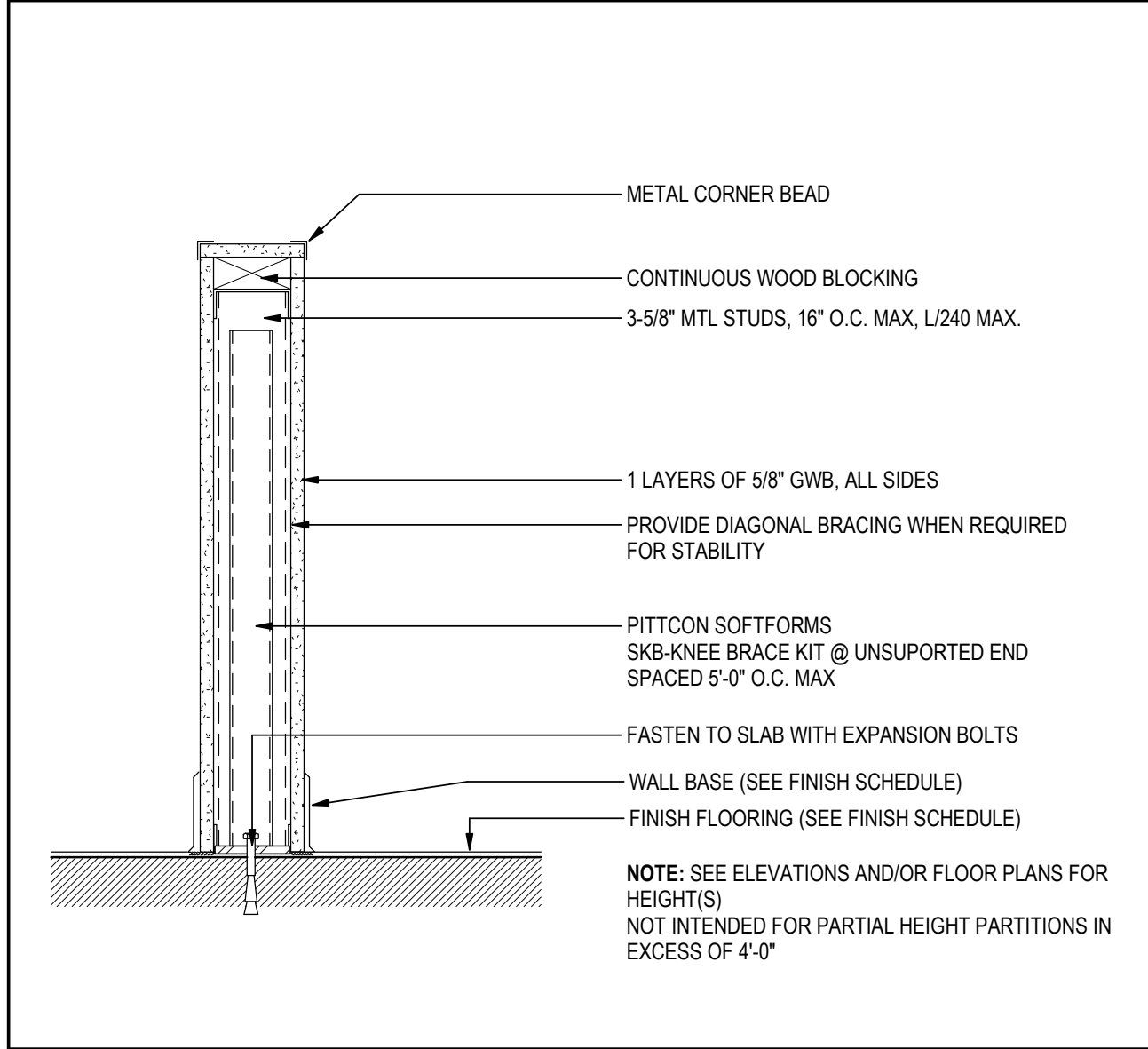
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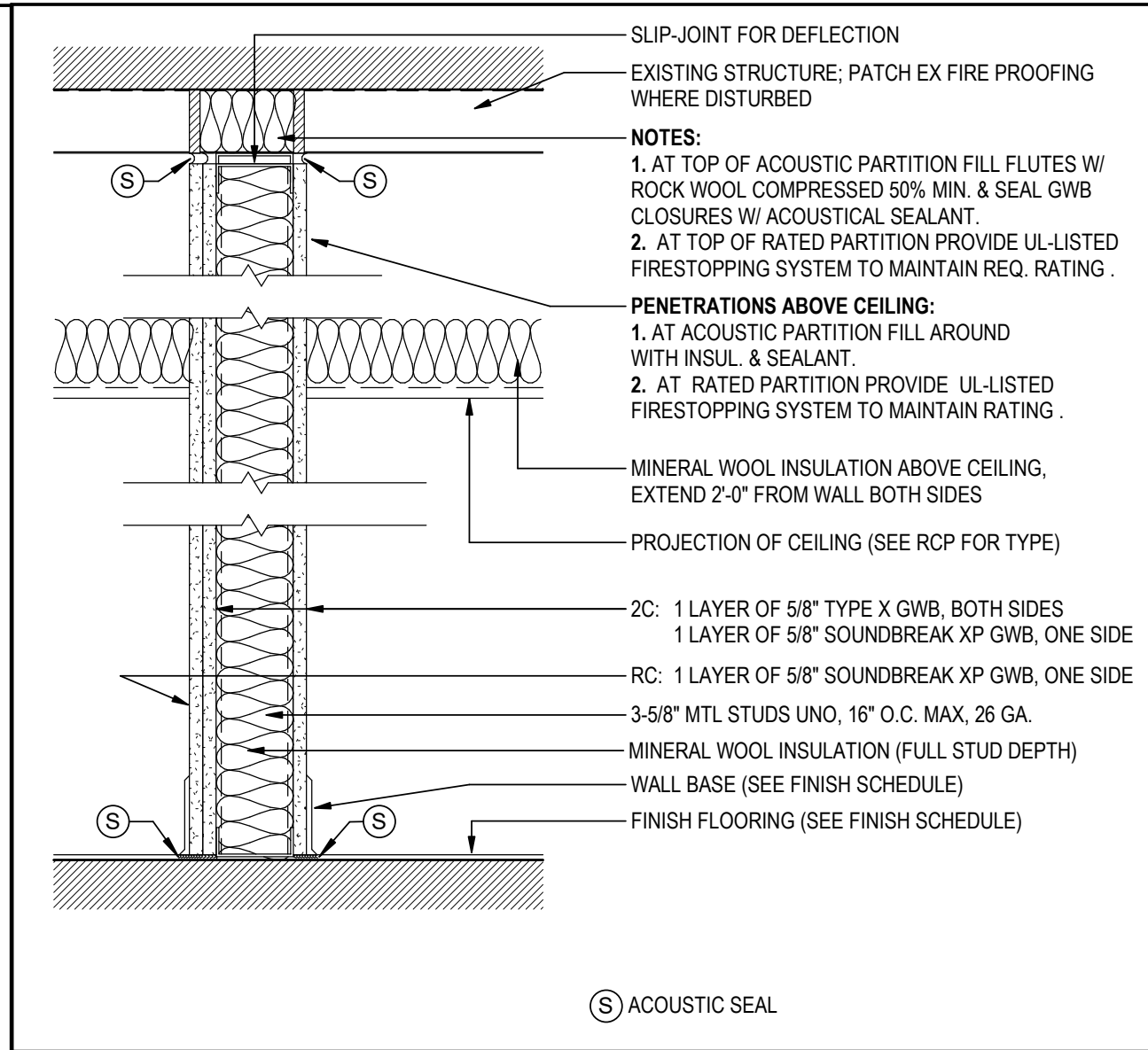
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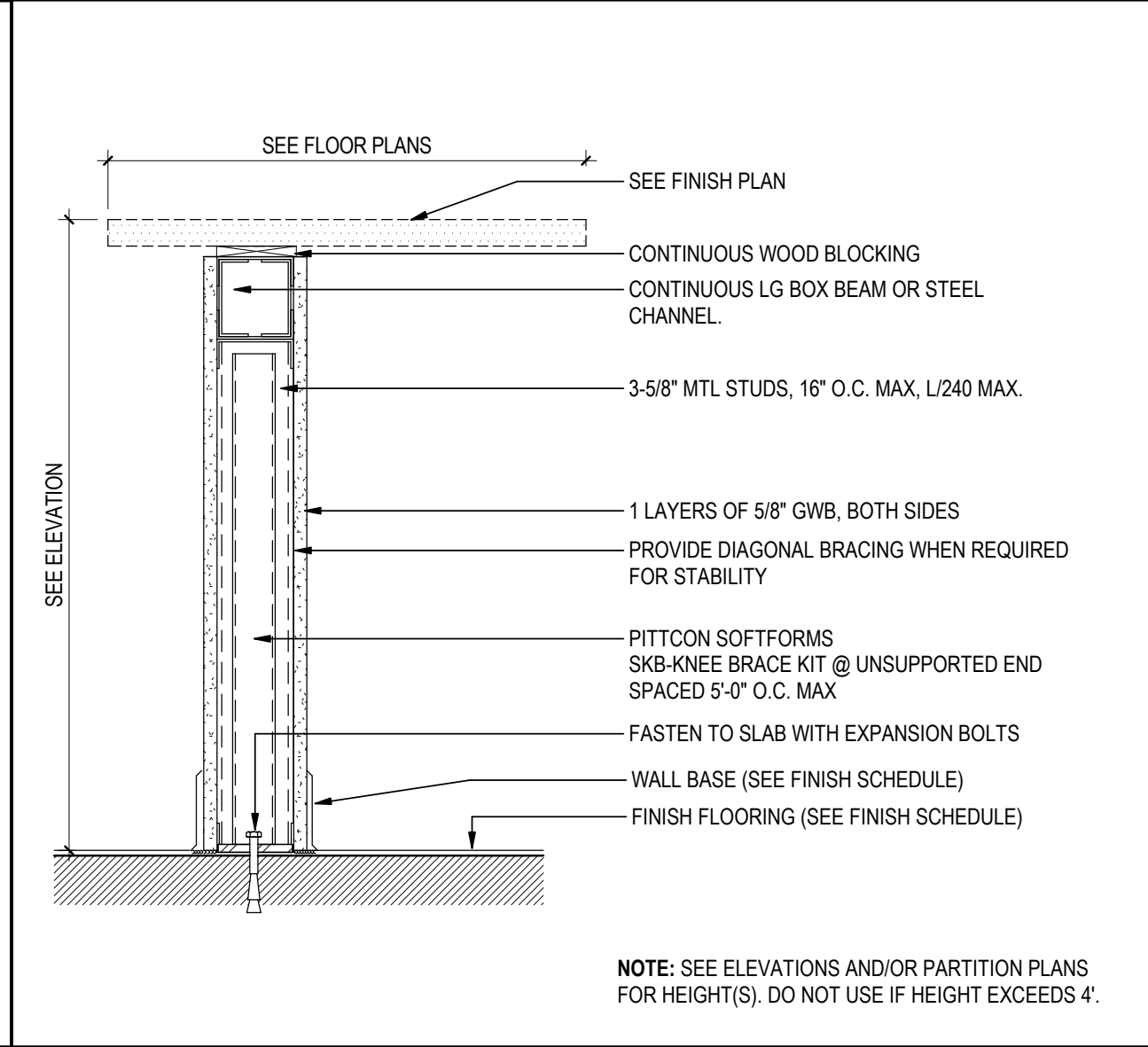
4A SINGLE STUD PARTITION
PARTIAL HEIGHT, EXTEND 6" ABOVE CEILING



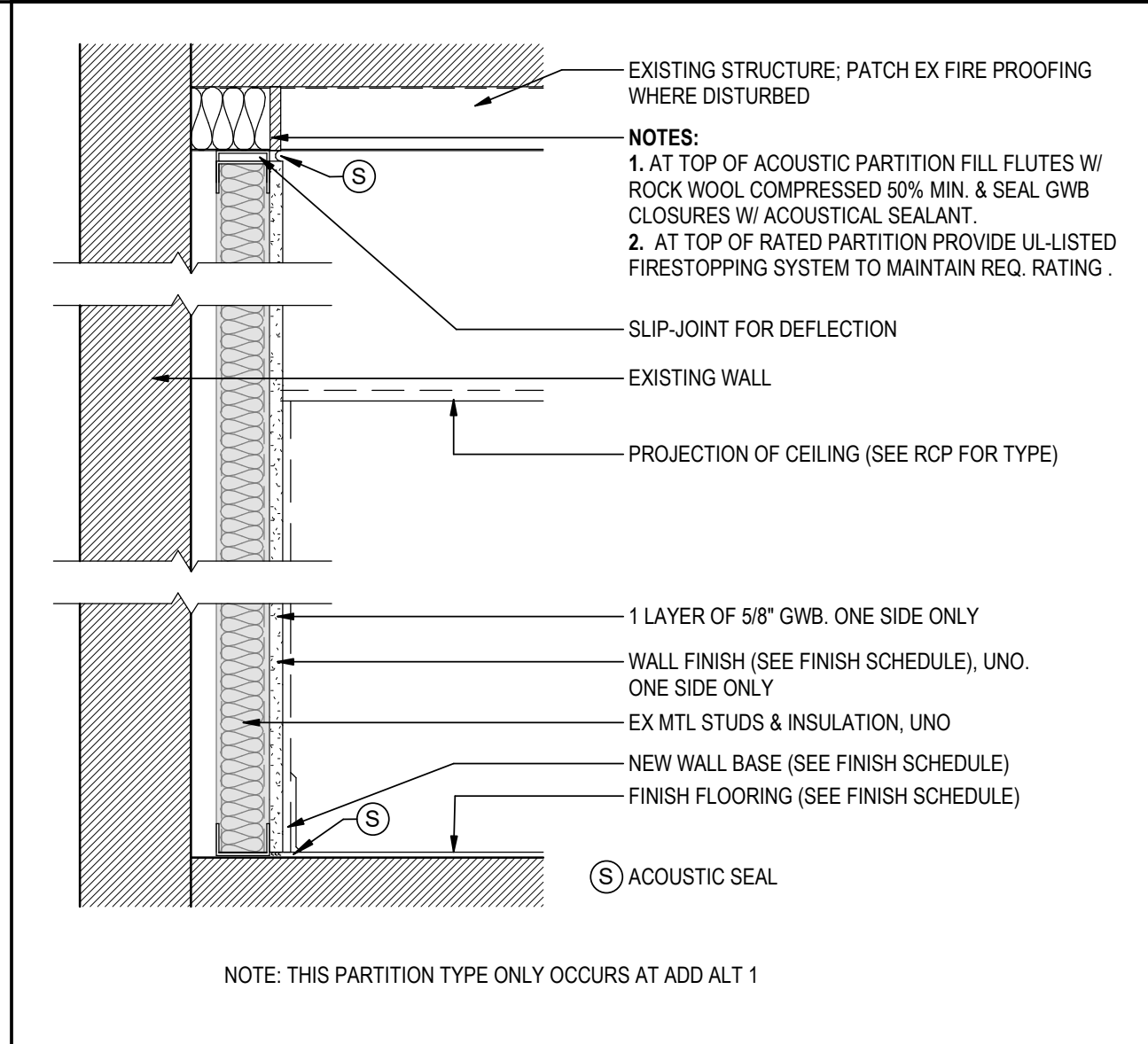
4W PARTIAL HEIGHT PARTITION



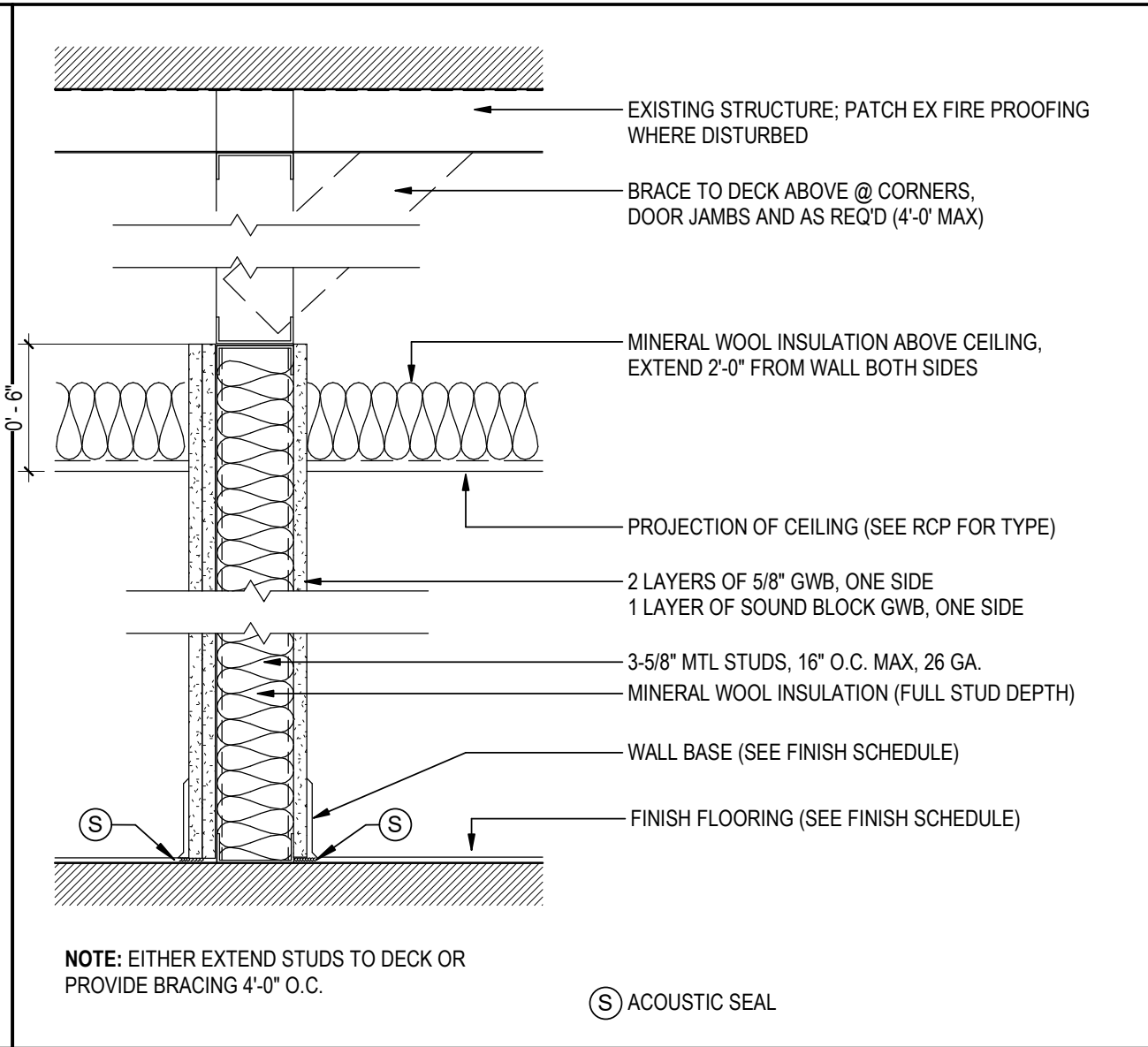
2C SINGLE STUD PARTITION



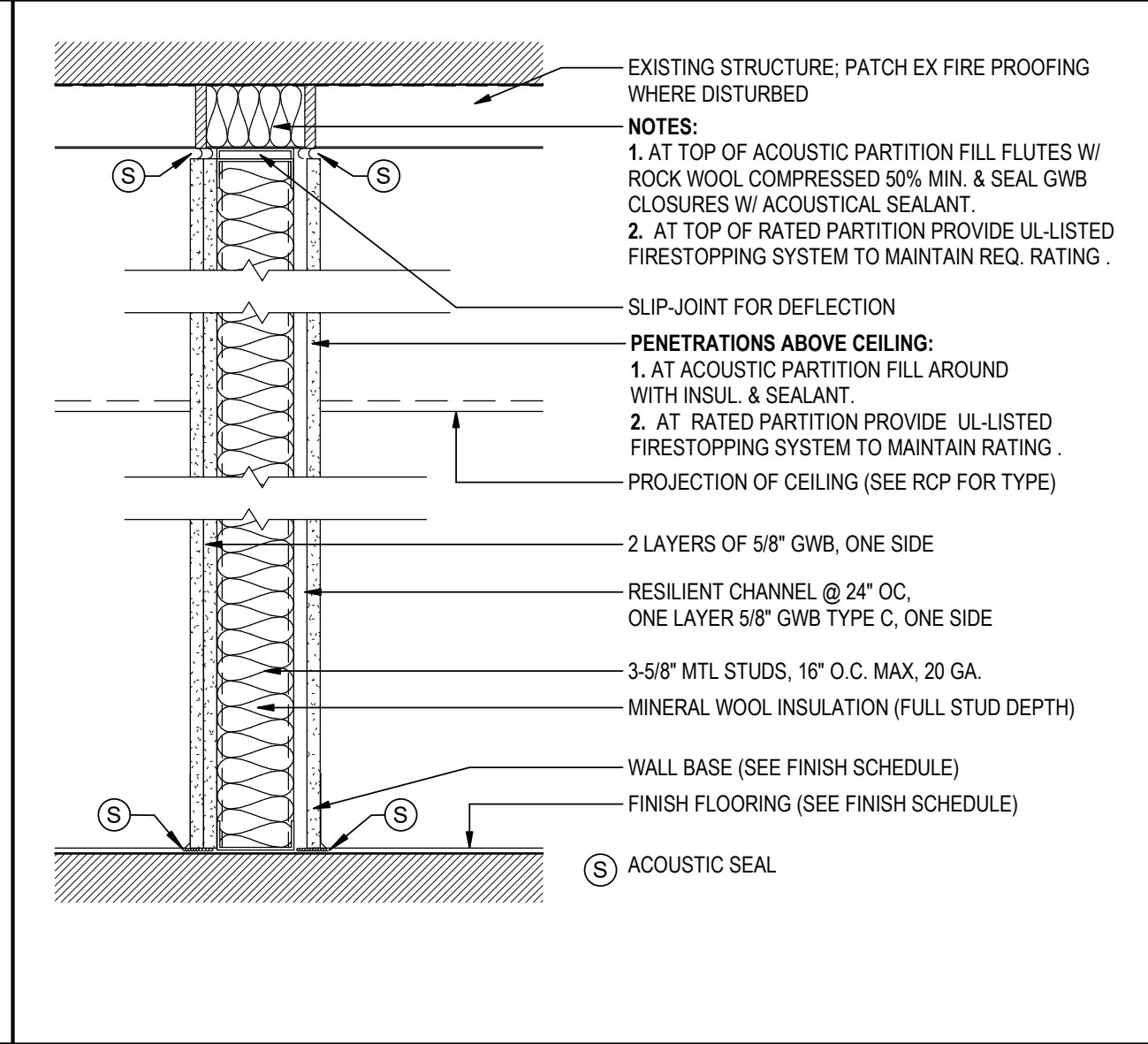
4B PARTIAL HEIGHT PARTITION W/ CAP



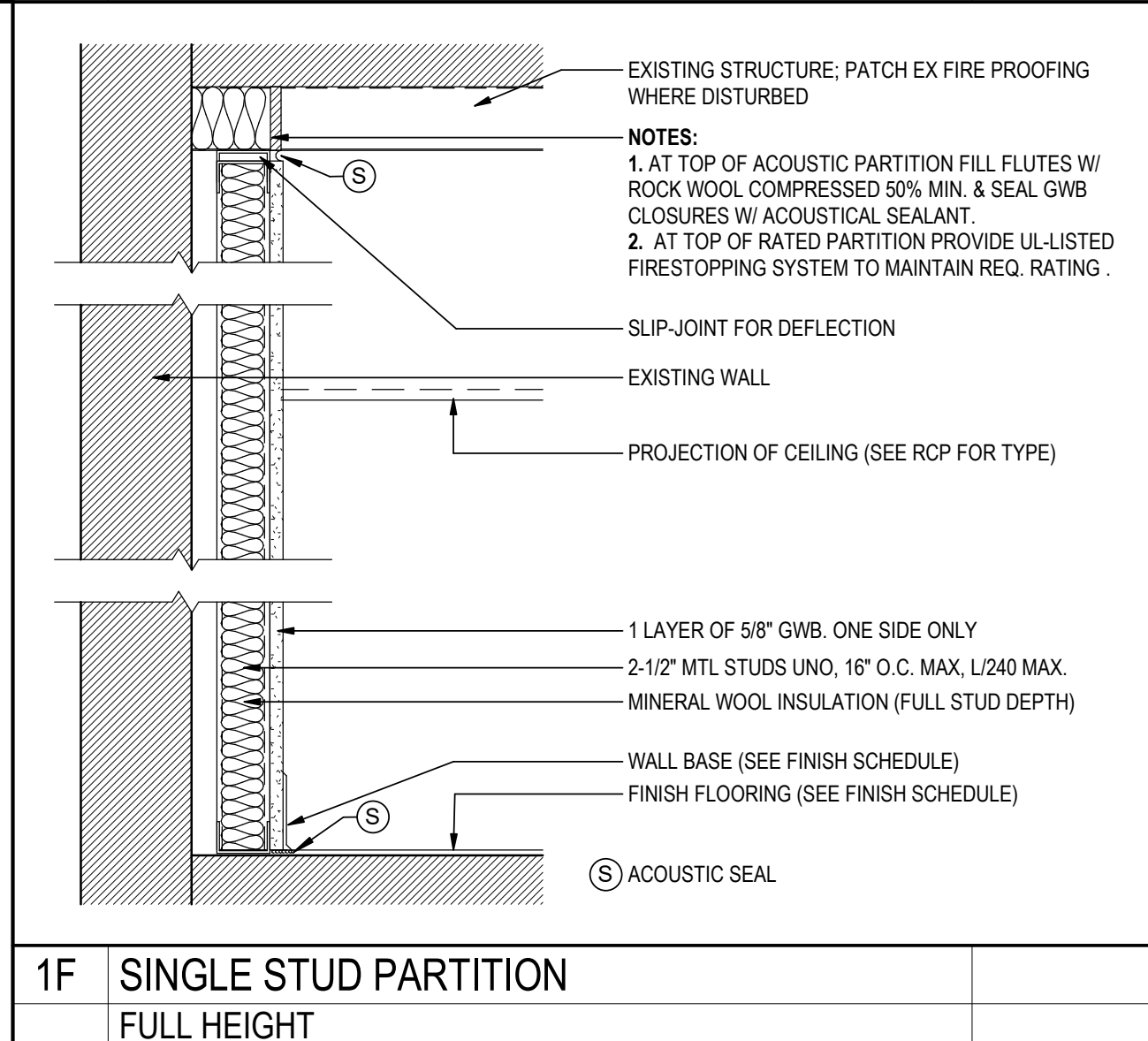
RP NEW WATER RESISTANT GWB + FINISH (UNO)
FULL HEIGHT GWB, PARTIAL HEIGHT FINISH



3C SINGLE STUD PARTITION
PARTIAL HEIGHT, EXTEND 6" ABOVE CEILING

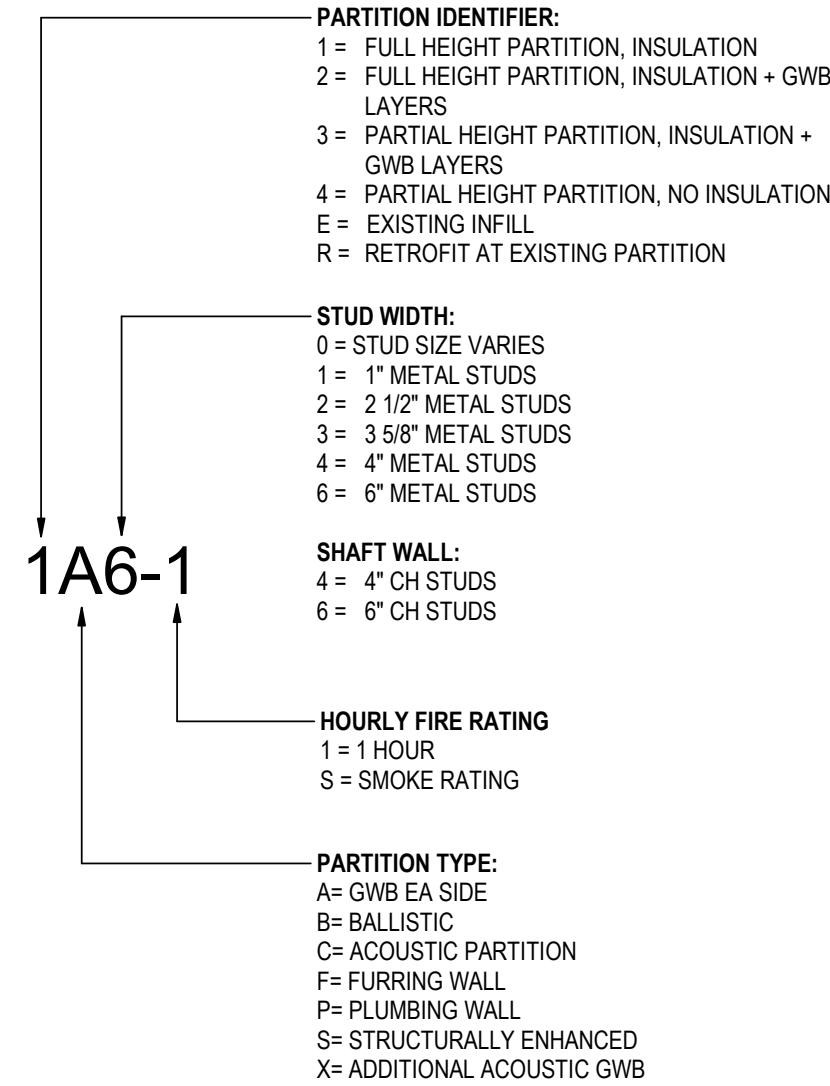


EC EXIST PARTITION INFILL AT DEMO DOORS



1F SINGLE STUD PARTITION
FULL HEIGHT
3F SING. STUD PERIMETER PARTITION
PARTIAL HEIGHT, EXTEND 6" ABOVE CEILING

INTERIOR PARTITION LEGEND



GENERAL NOTES - PARTITIONS

- REFER TO THE FLOOR PLANS FOR PARTITION TYPE TAGS. A PARTITION TYPE CONTAINS THE PARTITION IDENTIFICATION WHICH REFERS TO A SPECIFIC ASSEMBLY INDICATED ON THIS SHEET.
- REFER TO A6-301C FOR PARTITION DETAILS.
- THE CONSTRUCTION OF EXTERIOR WALLS IS SHOWN ON WALL SECTIONS & CORRESPONDING DETAILS. PARTITION TAGS ARE ONLY USED TO SHOW INTERIOR CONDITIONS, INCLUDING INTERIOR FURRING OF EXTERIOR WALLS.
- PARTITION TYPES AS NOTED BY THE TAG CONTINUE BETWEEN ROOM/SPACE CORNERS OR ANY INTERSECTING PARTITION UON. PARTITION TYPES ALSO CONTINUE PAST PILASTERS AND OTHER BUMP OUTS.
- THE PARTITION TYPE ABOVE OR BELOW ANY OPENING IS TO BE SAME AS THAT SCHEDULED FOR EITHER SIDE OF THE OPENING, UON.
- DIFFERING VISUALLY PLANAR PARTITION TYPES SHALL ALIGN SO THAT PARTITION FINISH PLANES CONTINUE UNBROKEN WITHIN AND/OR ACROSS SPACES.
- IN CASES WHERE TWO DIFFERENT CEILING HEIGHTS ABUT PARTITIONS, THE PARTITION SHALL EXTEND ABOVE THE HIGHEST CEILING INDICATED.
- GYPSUM BOARD SHALL BE FIRE RESISTANT, TYPE 'X' UON. FIRE RATED PARTITIONS SHALL BE CONSTRUCTED PER THE INDICATED FIRE TESTED ASSEMBLY.
- PROVIDE MOISTURE RESISTANT GYP BOARD AT PARTITIONS IN WET AREAS (FLOOR TO FINISH CEILING) INCLUDING BUT NOT LIMITED TO: TOILET ROOMS
- FILL STUD CAVITIES WITH ACOUSTIC INSULATION & RUN INSULATION CONTINUOUS AROUND COLUMNS & OTHER OBSTRUCTIONS TO FORM A CONTINUOUS ACOUSTIC BARRIER.
- INSTALL ACOUSTIC INSULATION, FULL WIDTH, DEPTH, AND HEIGHT UON.
- INSTALL ACOUSTICAL SEALANT AT PARTITION HEAD, SILL & JAMB TRANSITIONS, AS WELL AS AT PENETRATIONS THROUGH THE GYPSUM BOARD MEMBRANE INCLUDING PENETRATIONS AT MOUNTING FASTENERS. FIRE STOPPING REQUIREMENTS SHALL SUPERCEDE ACOUSTIC TREATMENT.
- TO MAINTAIN ACOUSTICAL PERFORMANCE, GWB SHALL NOT CONTACT ADJACENT GWB AT CORNER TRANSITIONS. AT ALL GWB CORNERS (HORIZONTAL AND VERTICAL), PROVIDE CONTINUOUS 1/4" GAP AND SEAL AIRTIGHT WITH AN ACOUSTIC SEALANT.
- THE BACK AND SIDES OF DUPLEX ELECTRICAL OUTLETS, TELE / DATA OUTLETS, A/V BOXES, FIRE ALARM DEVICES, THERMOSTATS, ETC, SHALL BE SEALED WITH FIRE STOP PUTTY PADS AS SPECIFIED FOR FIRE RATED ASSEMBLIES AND ACOUSTIC PUTTY PADS AS SPECIFIED FOR SOUND RATED ASSEMBLIES. ELSEWHERE, BACK-TO-BACK OUTLET BOXES TO BE SEPARATED BY ONE EMPTY STUD SPACE AND A MINIMUM OF 16 INCHES.
- PARTITIONS INDICATED AS FIRE OR SMOKE RATED FORM A SEPARATION THAT SHALL BE CONTINUOUS FROM FLOOR TO STRUCTURE ABOVE WITH NO BREAKS AT CONCEALED SPACES, COLUMNS, TRANSITIONS OR OTHER OBSTRUCTIONS. REFER TO HEAD OF WALL DETAILS SHEET FOR FURTHER INFORMATION.
- PENETRATIONS THROUGH FIRE/SMOKE RATED PARTITIONS SHALL BE SEALED WITH UL LISTED FIRE/SMOKE STOP ASSEMBLY. PENETRATIONS THROUGH SOUND RATED PARTITIONS SHALL BE SEALED WITH ACOUSTIC ASSEMBLY.

Alaska Court System

Palmer Courthouse
Expansion - PSOB
Connector

Project No.:2014331970

Title

PARTITION TYPES

Scale:As indicated

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Alaska Court System

Palmer Courthouse
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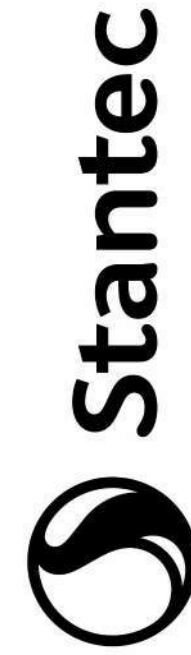
PARTITION TYPES

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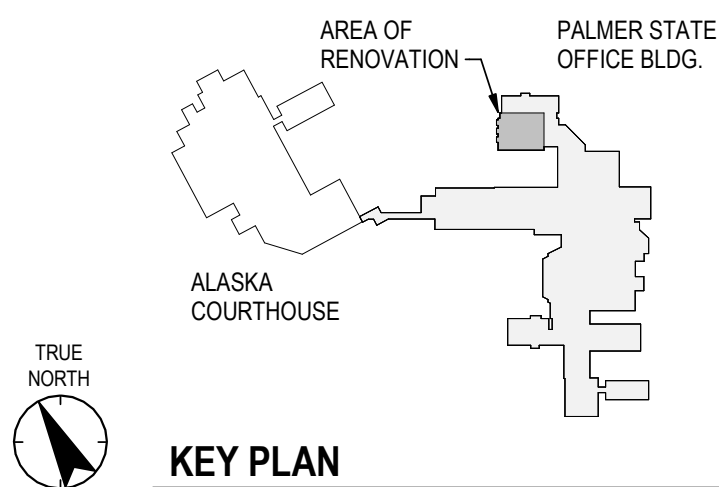
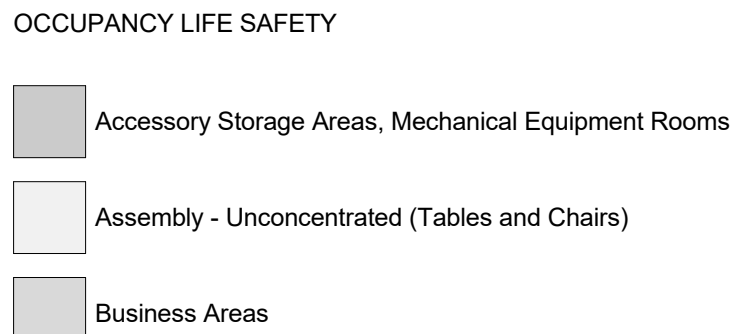
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KEY PLAN

PLUMBING FIXTURE COUNTS TABLE 422.1, 2015 UPC
B OCCUPANCY

Basement plumbing fixture counts are part of the main building count. The main building already supplies more than the required amount of fixtures. See connector plumbing counts and referenced counts from the 2008 renovation. This projects provides an additional restroom, lavatory and fixture, in addition to the this amount.

Palmer Code Summary, Alaska Building Code 2015 & Existing Building

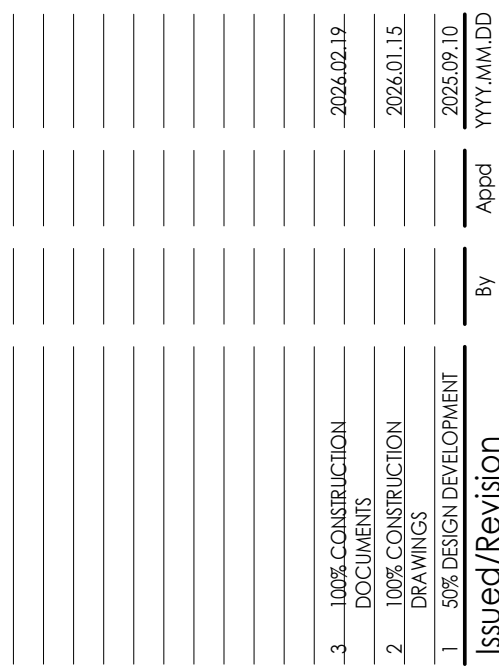
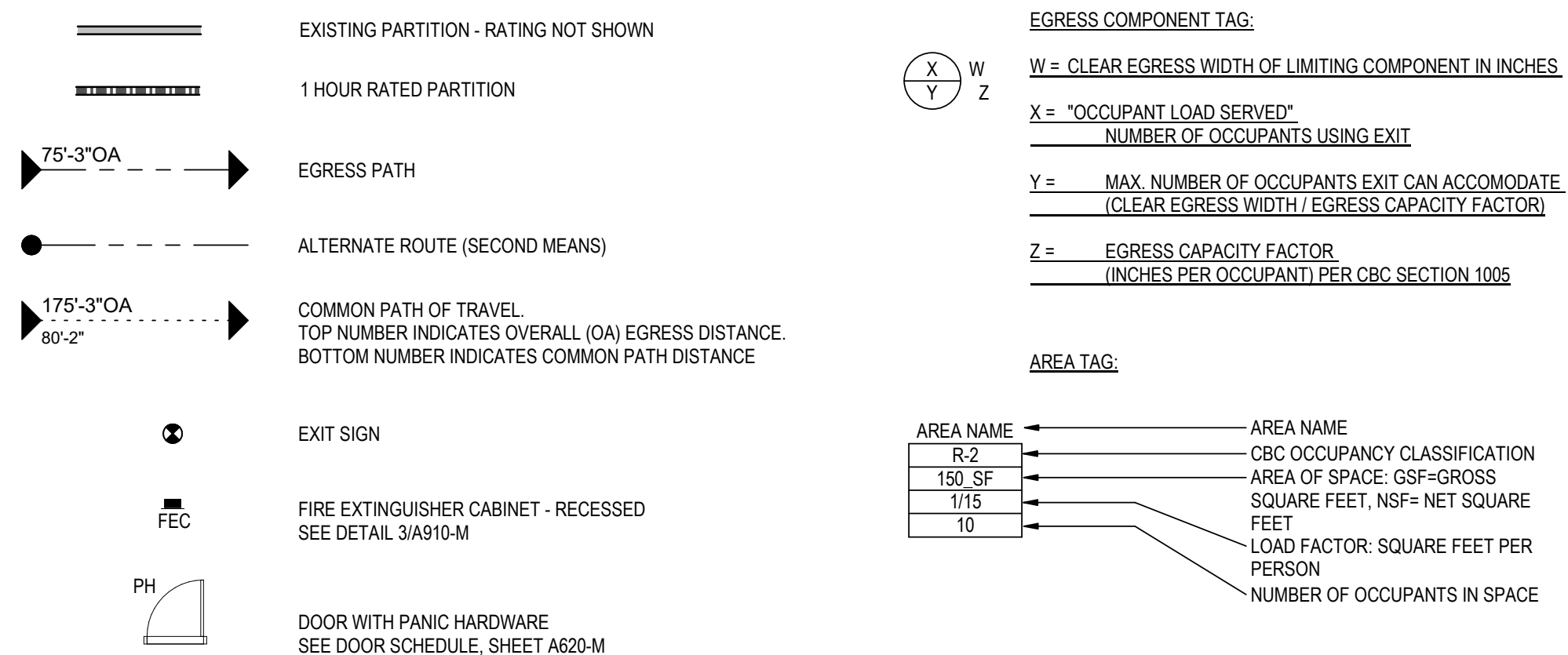
Code

- Chapter 3
- Occupancy
 - B Business - Main Occupancy
 - A-3 Assembly – Accessory Occupancy
- Chapter 5
- Construction type
 - Palmer Courthouse: Type V one-hour, wood frame
 - Connector: Type V one-hour, wood frame
 - State office Building: Type V one-hour, wood frame
- Allowable Building Height in Feet
 - Sprinkler – 70'
- Table 504.4 Allowable number of Stories above grade plane
 - A-3 & B Occupancies
 - A-3, sprinkler: 3 stories
 - B, sprinkler: 4 stories
- Table 507.4 Sprinklered One-Story Buildings - Allowable area
 - Unlimited area in B occupancy with sprinkler system.
- Chapter 6
- See table 601 for ratings of building elements.
 - Primary structural frame – 1-hour
 - Bearing walls – 1-hour
 - Floor construction – 1-hour
 - Roof construction – 1-hour
- Chapter 7
- 705.5 Exterior Wall rating based on distance Group A-3
 - $X < 5$: 1-Hour
 - $5 < X < 10$: 1-Hour
 - $10 < X < 30$: 0-Hour
 - $X > 30$: 0-Hour
- Chapter 9
- 913.2.1 Fire Pump rooms are 2-hour fire barrier
- Chapter 10
- Table 1006.2.1, Spaces with one exit or exit access doorway
 - A: CPT 75'
 - B: CPT 100'
- Table 1006.3.2 Minimum Number of Exits or access to exits
 - 1-500 = 2 exits
 - 501-1000 = 3 exits
 - >1000 = 4 exits
- Table 1017.2 Exit Access Travel Distance
 - A: 300' (Sprinkler)
- Table 1020.2 corridor fire rating
 - A: 0-hour (Sprinkler)
- 1020.3 Minimum corridor width
 - 44'
- 1020.5 Dead Ends: 20'
- 1028.2 Exit discharge
 - ≤50% of exits can use exception for not going directly outside.

CODES IN EFFECT (PER CITY OF PALMER)

- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL EXISTING BUILDING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2014 NATIONAL ELECTRIC CODE
- 2015 UNIFORM PLUMBING CODE
- 2015 INTERNATIONAL FIRE CODE, 20XX EDITION
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- LOCAL AMENDMENTS LISTED IN PALMER MUNICIPAL CODE TITLE 15 BUILDINGS & CONSTRUCTION
- ICC/ANSI A117.1-2009 AMERICAN NATIONAL STANDARD - ADA

CODE COMPLIANCE PLAN LEGEND



Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Basement

Project No.:2014331970

Title

CODE COMPLIANCE

Scale:

Revision: 3

NUMBER:

A0-101B

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KEYNOTES - CONST	
40	INSTALL SALVAGED DOOR & FRAME
43	INSTALL SALVAGED WINDOW AND WINDOW SHADE
50	NEW WINDOW w/ WINDOW FILM WF-2: SEE INT ELEV AND FINISH SCHED
53	NEW COUNTER AND CASEWORK: SEE INT ELEV AND FINISH SCHED
55	NEW STANDARDS AND BRACKETS
56	INSTALL SALVAGED STANDARDS AND BRACKETS
58	NEW ADA OPERATOR PUSH BUTTON
72	NEW OFCI 80" TV W/ OFCI ADJUSTABLE HEIGHT/ANGLE WALL MOUNTED BRACKET AND NEW MOUNTED RECESSED AV BOX; GC TO COORD. FINAL LOCATION W/ CLIENT
73	NEW OFCI 42" TV DIRECTORY W/ OFCI WALL MOUNTED AV BOX; GC TO COORD. FINAL LOCATION W/ CLIENT



REFLECTED CEILING PLAN LEGEND

- ADDITIONAL SYMBOL NOMENCLATURE
 "X" DENOTES EXISTING TO BE REMOVED DEVICE AND/OR CEILING TILE
 "R" DENOTES RELOCATED DEVICE AND/OR CEILING TILE
 "N" DENOTES NEW LIGHT FIXTURE AND/OR CEILING TILE

61	NEW ACOUSTIC CEILING TILE(S) IN EXISTING GRID; SEE FINISH SCHED
----	---

- | | | | |
|--|--|---|-----------------|
| | CEILING TYPE KEY | | |
| | CEILING TYPE | | |
| | CEILING HEIGHT AFF | | |
| | AREA NOT IN CONTRACT (NIC) | | |
| | 2 x 4 SUSPENDED
CEILING GRID SYSTEM | | |
| | GYPSUM BOARD CEILING/SOFFIT | | |
| | EXISTING CEILING
TO BE REMOVED OR RELOCATED | | |
| | EXISTING CEILING
TO REMAIN | | |
| | EXISTING CEILING FIXTURE
TO BE REMOVED OR RELOCATED | | |
| | 4' LIGHT FIXTURE STRIP | ☉ | DOWNLIGHT |
| | 1' x 4' LIGHT FIXTURE | ☼ | EMERGENCY LIGHT |
| | 2' x 2' LIGHT FIXTURE | | |
| | 2' x 4' LIGHT FIXTURE | | |
| | SUPPLY DIFFUSER, LINEAR | | |
| | SUPPLY DIFFUSER | | |
| | SUPPLY RETURN | | |
| | RADIANT HEATING
CEILING PANEL | | |
| | EXIT SIGN - CEILING MOUNTED
ARROWS INDICATE DIRECTION | | |
| | EXIT SIGN - END MOUNTED
ARROWS INDICATE DIRECTION | | |
| | EXIT SIGN - FACE MOUNTED
ARROWS INDICATE DIRECTION | | |
| | SPRINKLER | | |
| | OCCUPANCY SENSOR
CEILING MOUNTED | | |
| | SPEAKER | | |
| | SMOKE DETECTOR | | |
| | WINDOW TREATMENT | | |

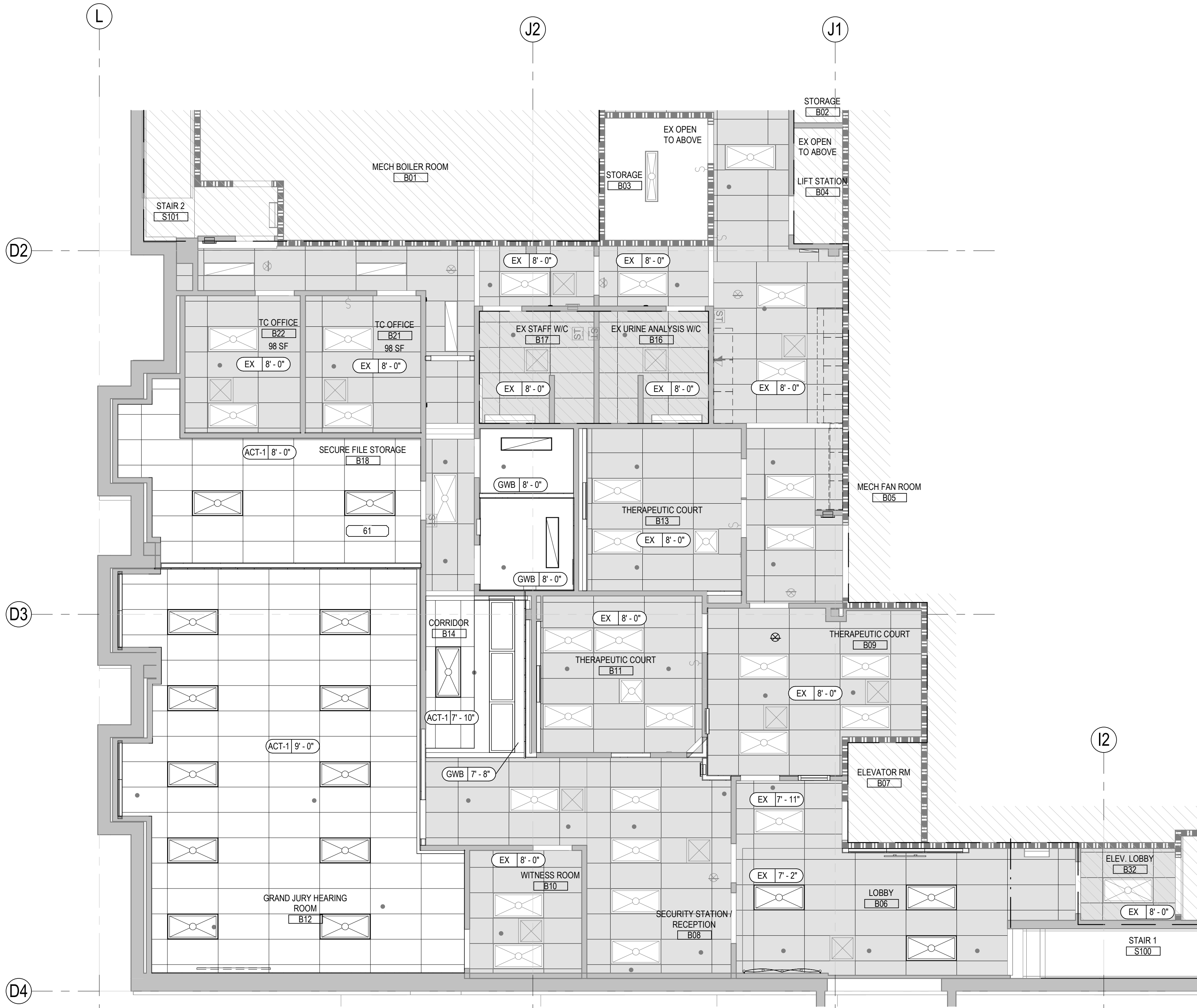


Permit/Seal

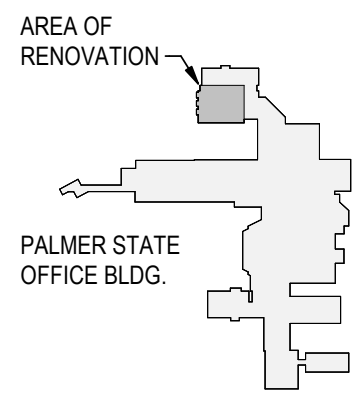
Palmer Courthouse
Expansion - PSOB
Basement

NUMBER:

A1-301B

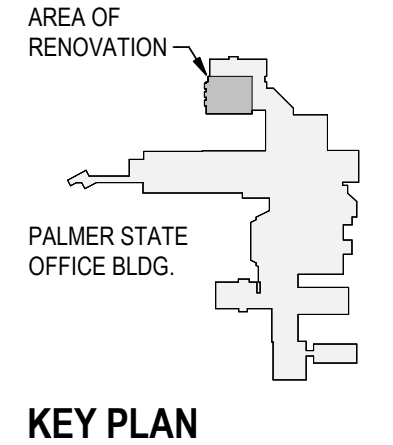


REFLECTED CEILING PLAN - BASEMENT

$$\frac{3}{16}'' = 1'-0''$$


KEY PLAN





A1-401B



A1-601B



A1
A1-601B

ORIGINAL SHEET - ANSI 11

<Click to expand in Project Information>
2/26/2026 11:49:22 AM

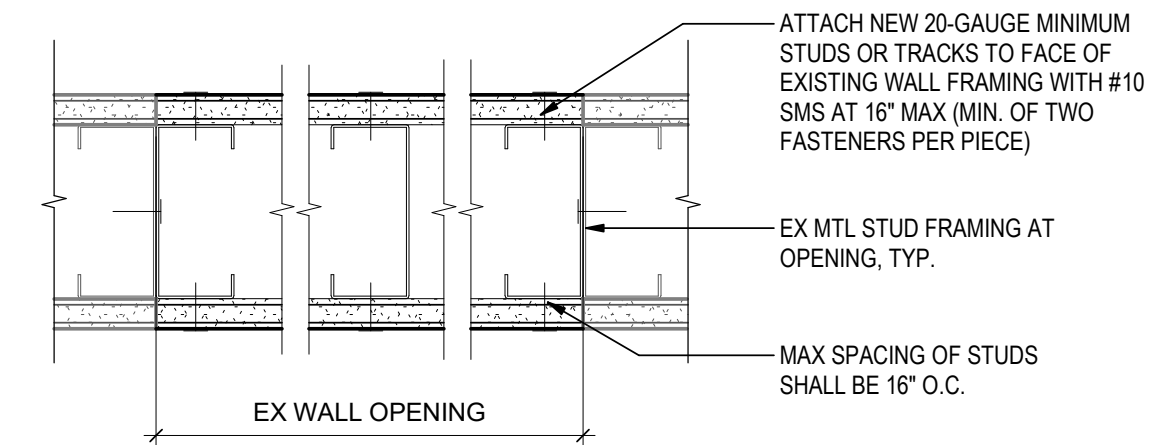
ORIGINAL SHEET - ANSI D

A

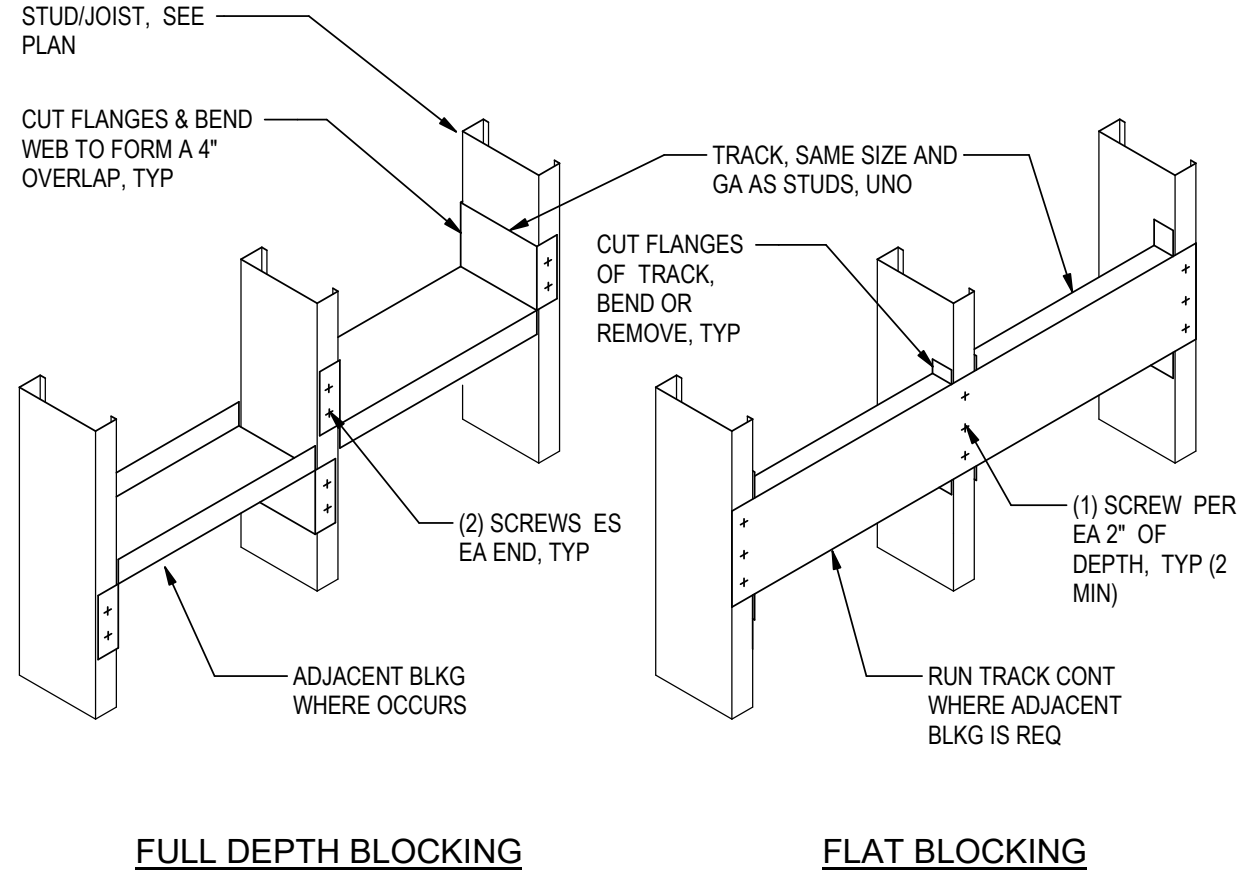
B

C

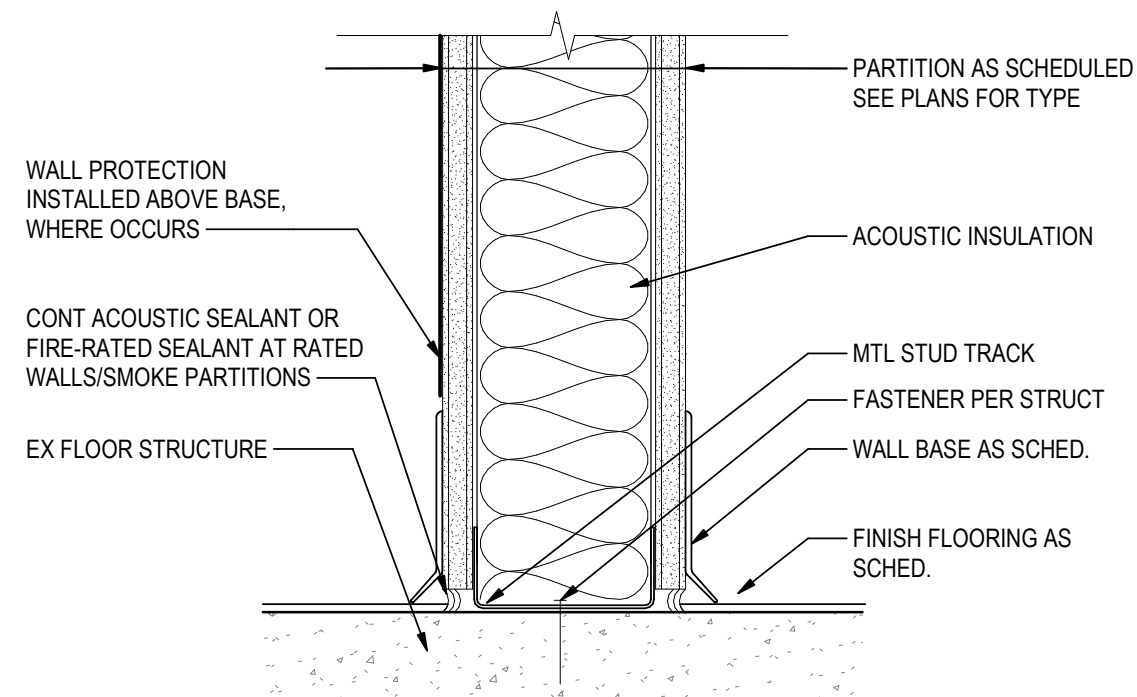
D



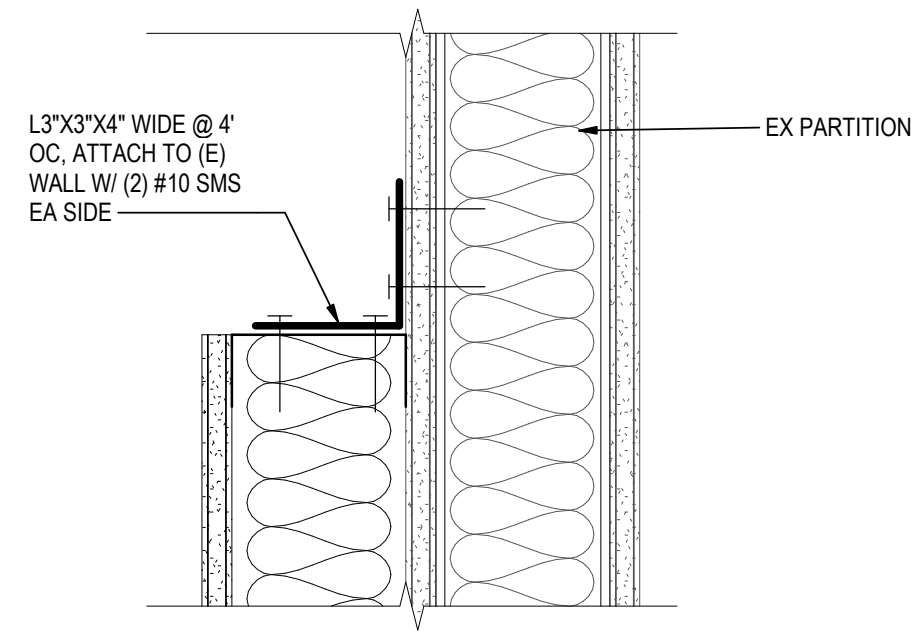
A1 INFILL AT EXISTING PARTITION OPENING
A6-301B 3" = 1'-0"



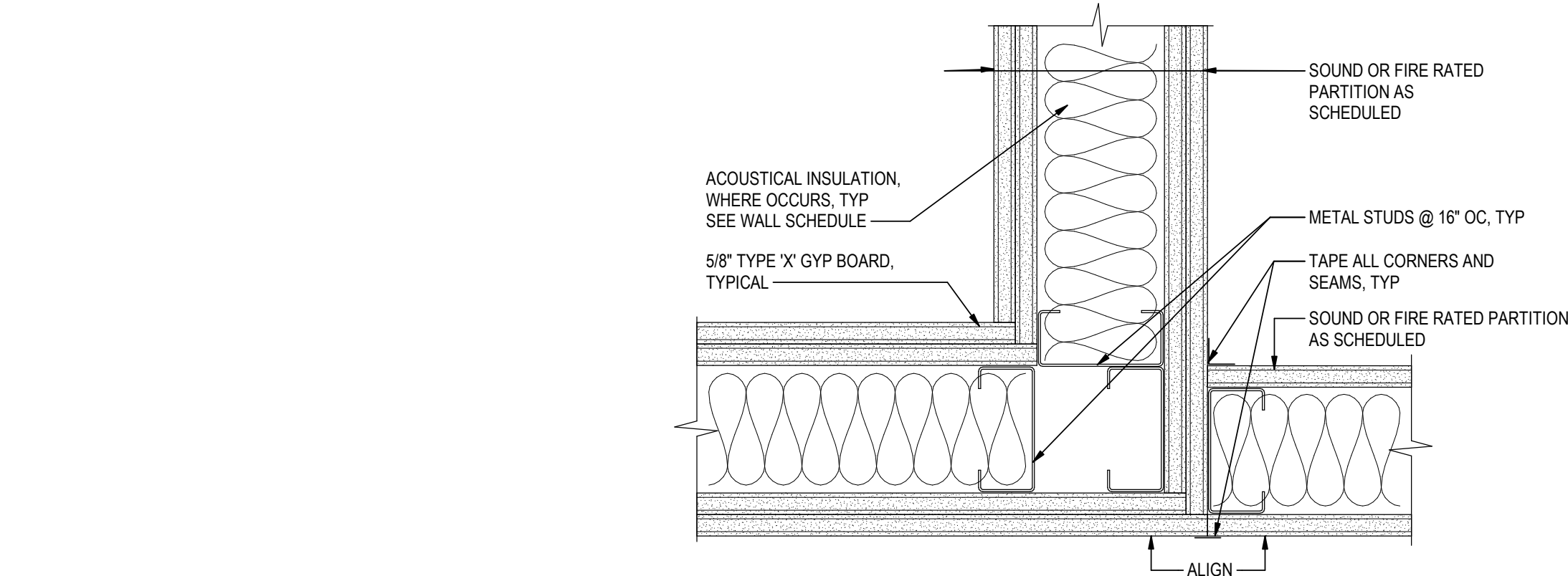
B1 TYP STEEL STUD / JOIST BLOCKING
A6-301B 1" = 1'-0"



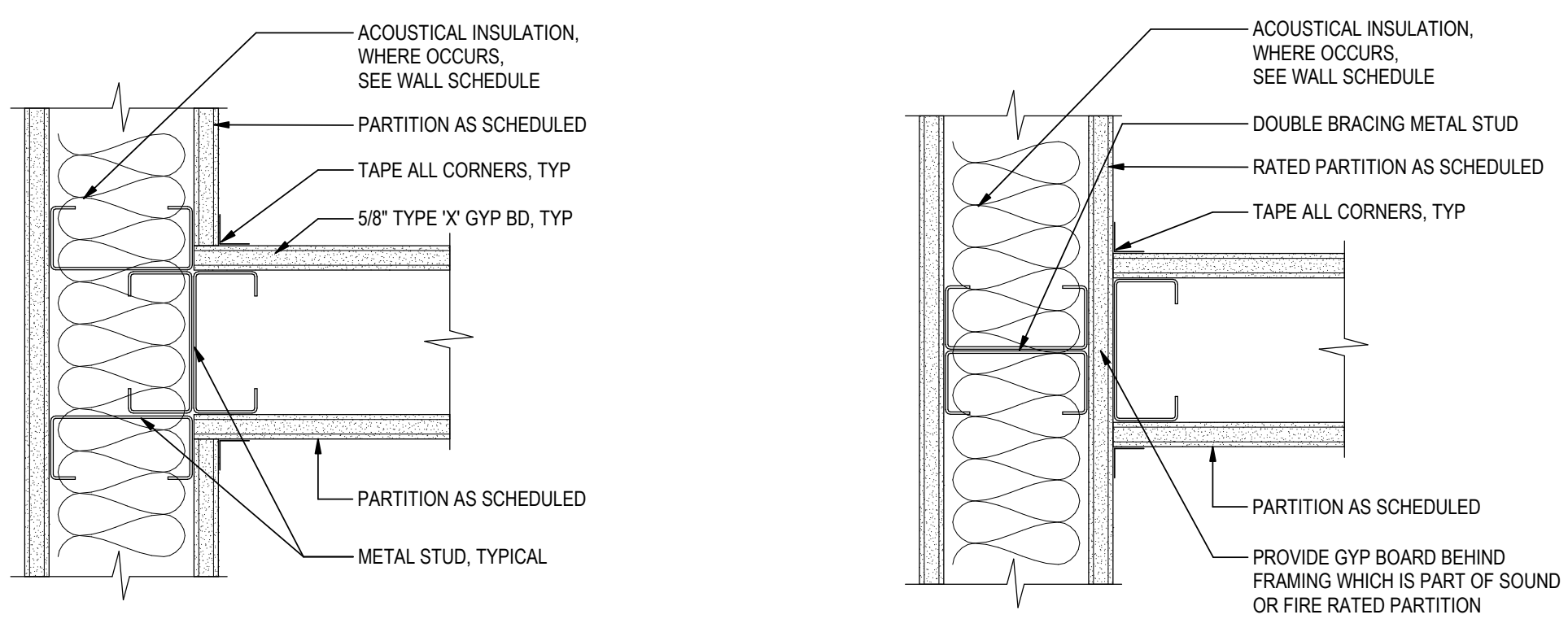
A2 TYP. WALL BASE
A6-301B 3" = 1'-0"



B2 TYP PARTITION BRIDGE - FURRED TO EX
A6-301B 3" = 1'-0"

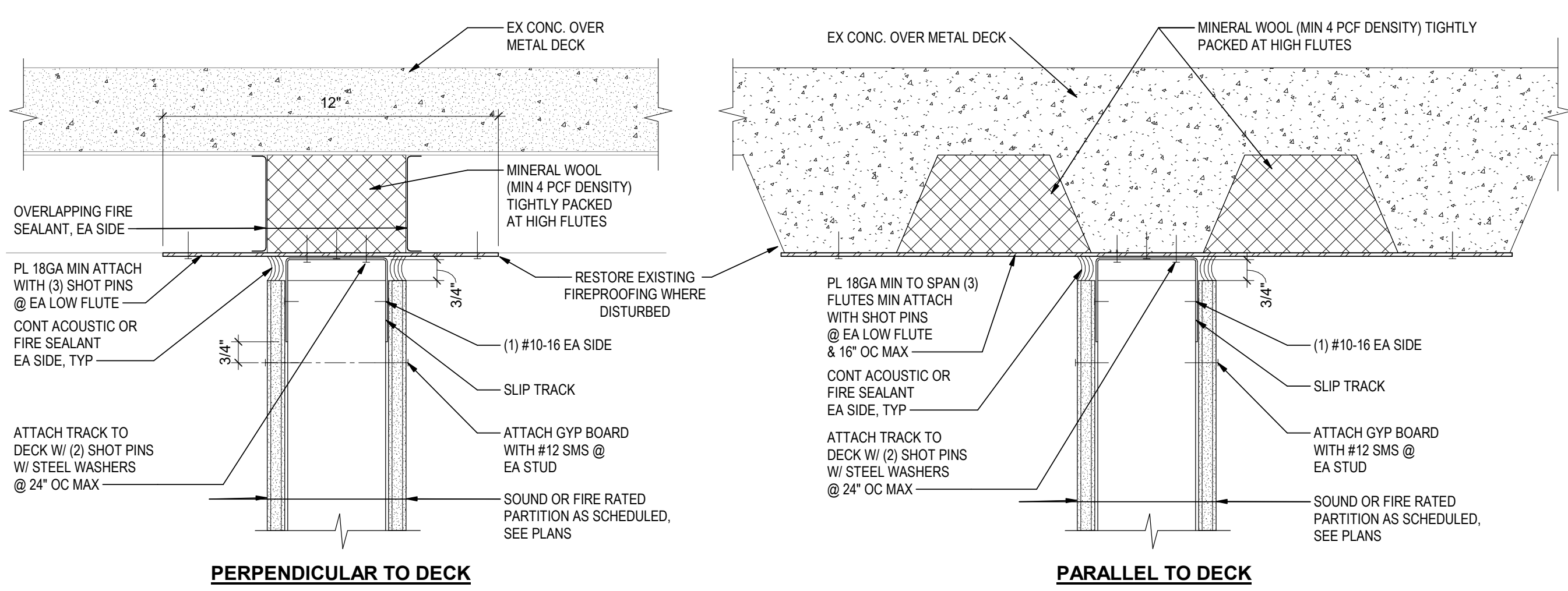
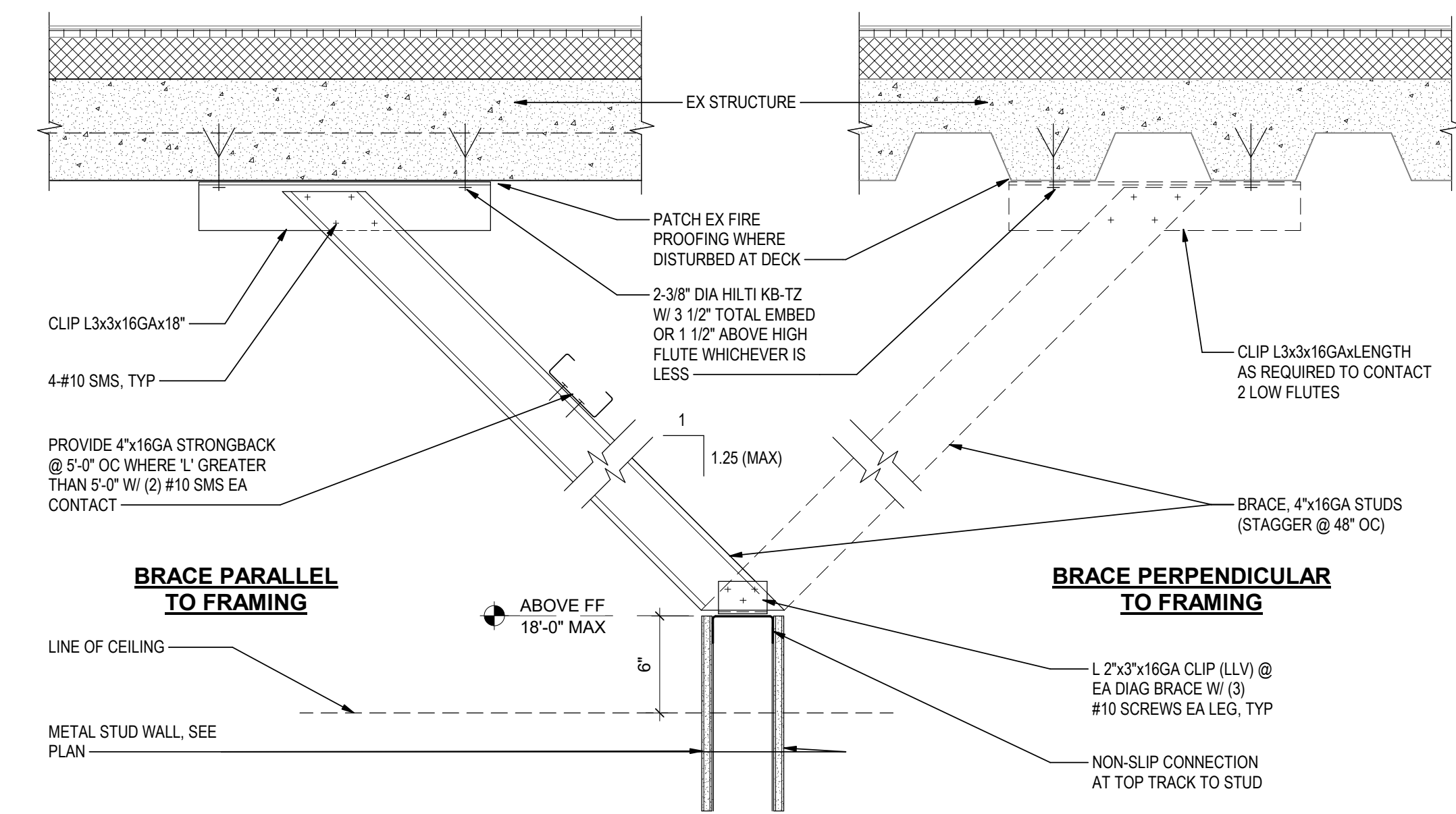


A5 ACOUSTIC PARTITION CORNER
A6-301B 3" = 1'-0"



B4 TYP. PARTITION INTERSECTION
A6-301B 3" = 1'-0"

C4 TYP PARTIAL HEIGHT INTERIOR STEEL STUD WALL BRACING TO DECK
A6-301B 1 1/2" = 1'-0"



C1 ACOUSTIC PARTITION HEAD TO DECK
A6-301B 3" = 1'-0"

Consultant

Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Basement

Project No.:2014331970

Title

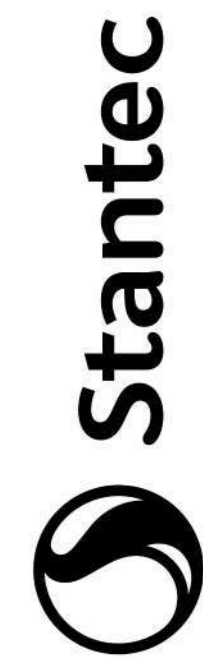
INTERIOR DETAILS

Scale:As indicated

Revision:3

NUMBER:

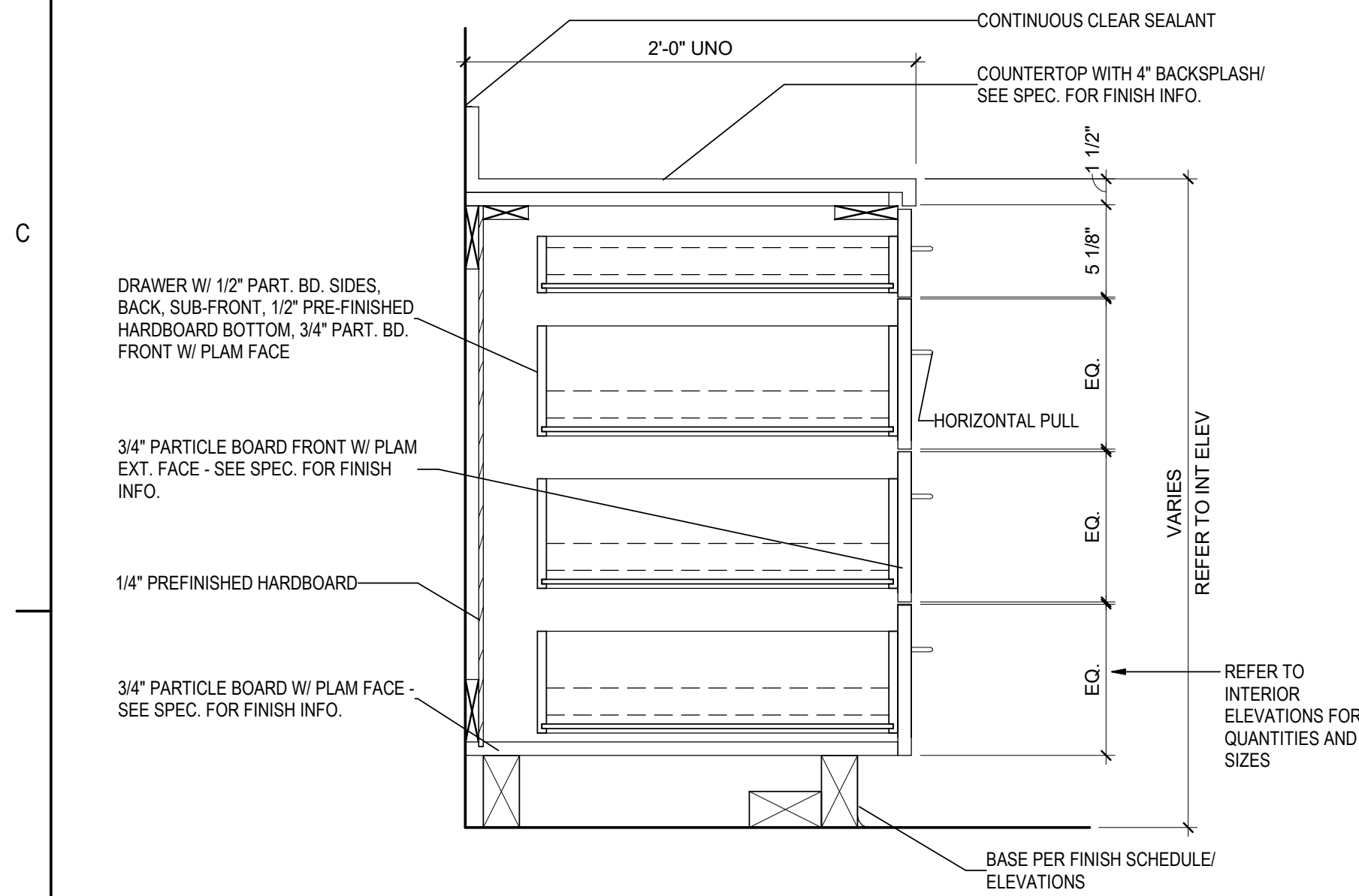
A6-301B



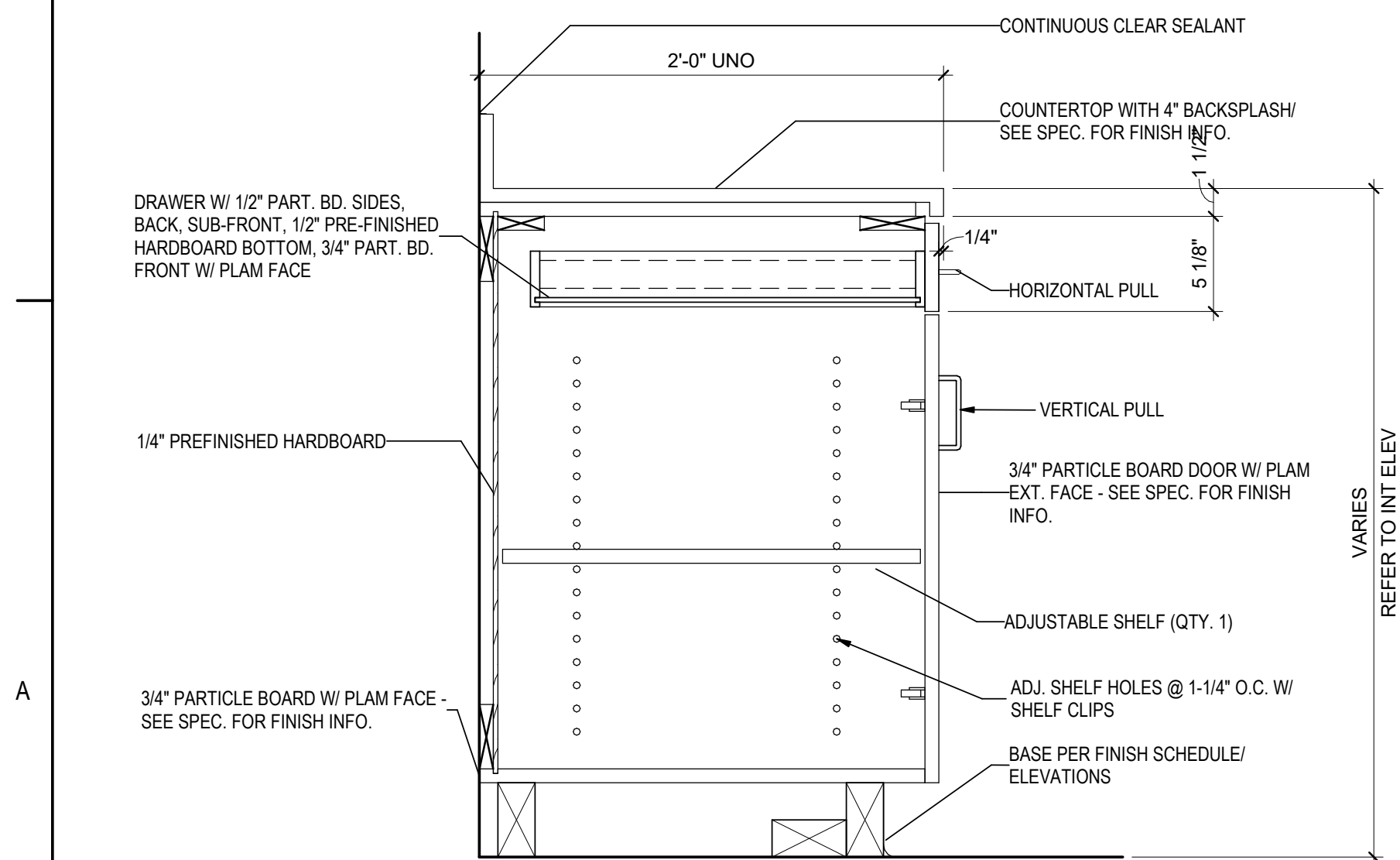
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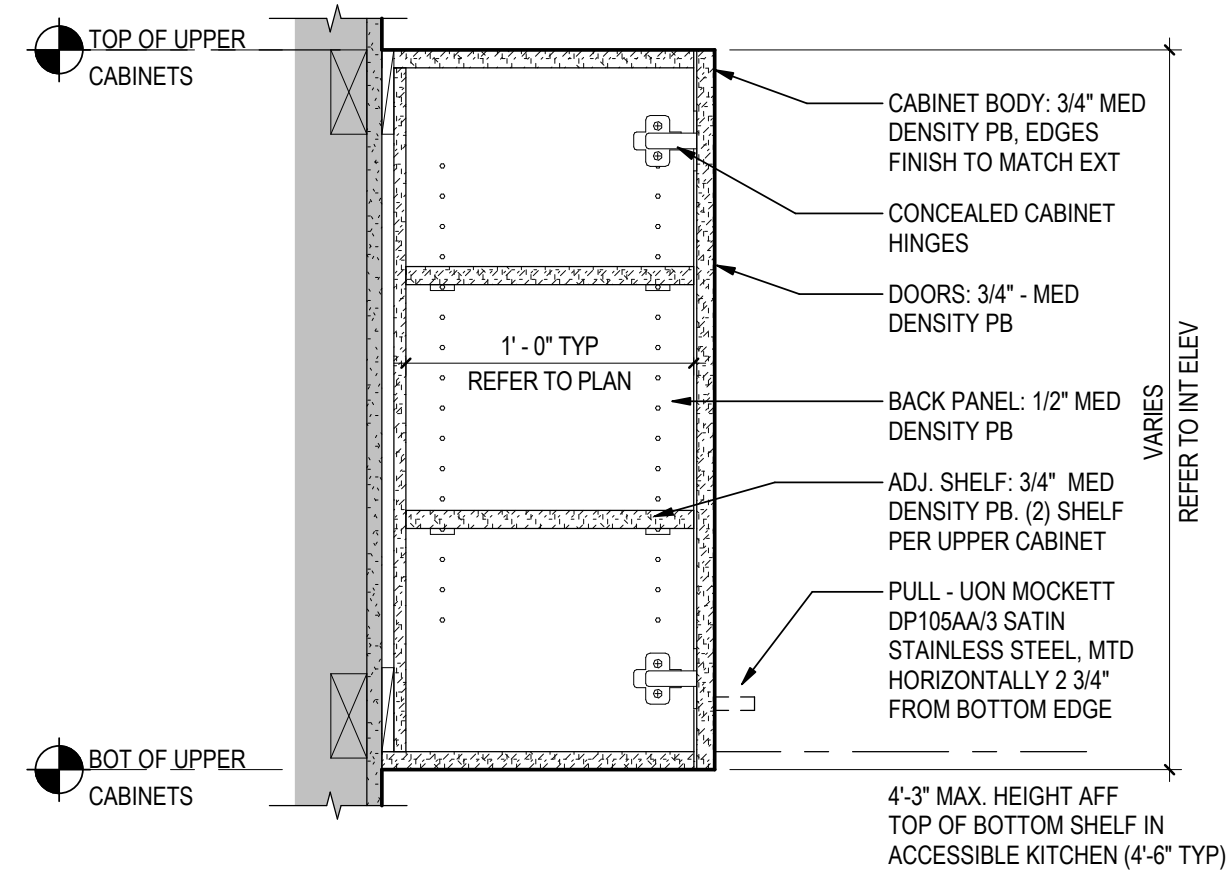
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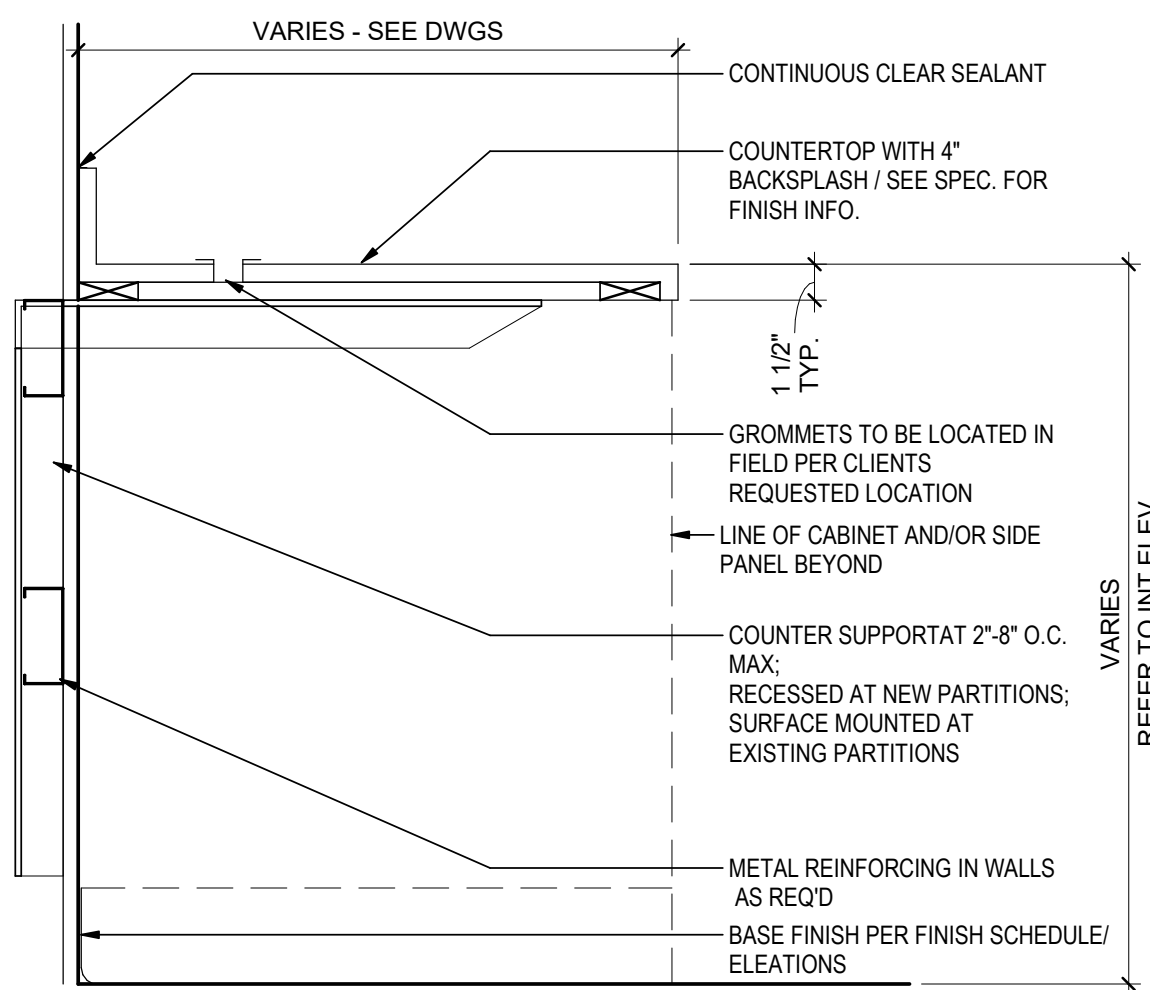
B1	BASE CABINET WITH DRAWERS
A6-304B	1 1/2" = 1'-0"



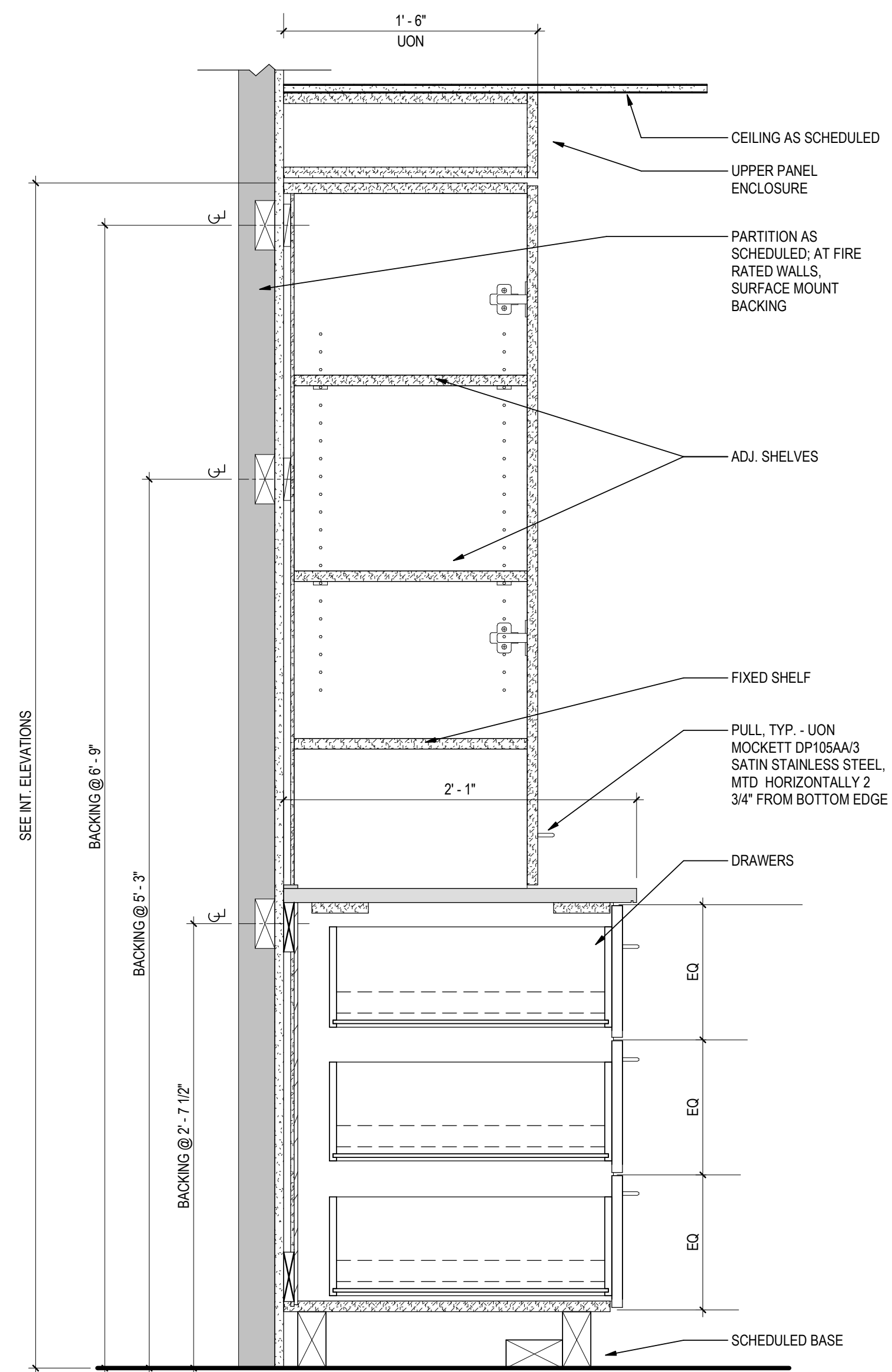
A1	BASE CABINET WITH DRAWER AND DOOR
A6-304B	1 1/2" = 1'-0"



B3 **CSWK - WALL HUNG CAB W/ DOOR**
A6-304B 1 1/2" = 1'-0"



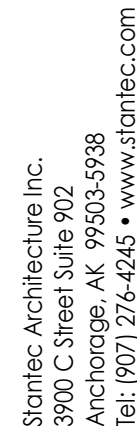
A3 CONCEALED SUPPORT DETAIL - TYP



A4 CSWK - TALL STORAGE W/ COUNTER AND DRAWERS
A6-304B 1 1/2" = 1'-0"


$$6'' = 1'-0''$$

$$6'' = 1'-0''$$

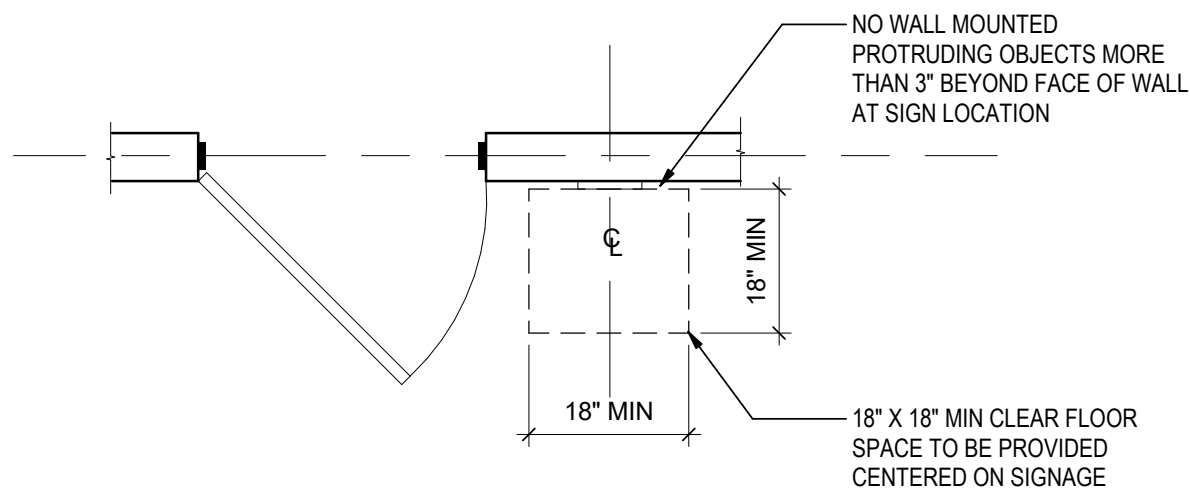
$$6'' = 1'-0''$$


D

C

B

A



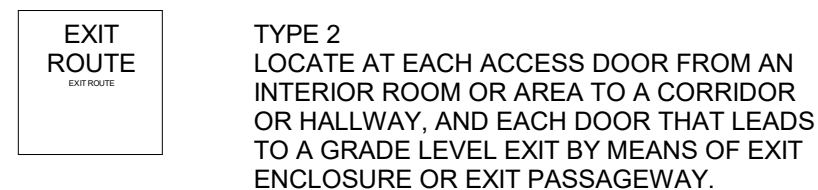
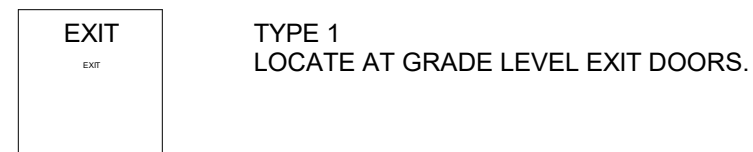
NOTES:

- WHERE A TACTILE SIGN IS PROVIDED AT DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT EACH LATCH
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THEN THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR
- WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL
- WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE
- SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE
- TACTILE SIGNS TO BE MOUNTED AT 60" ABOVE THE FLOOR TO THE CENTER OF THE SIGN PROVIDED THAT BASED ON THE SIGN CONTENT THE RAISED CHARACTERS ARE 60" MAXIMUM TO THE BASELINE OF THE HIGHEST RAISED CHARACTER AND 48" MINIMUM TO THE BASELINE OF THE LOWEST RAISED CHARACTER OR BRAILLE

B1 SIGN LOCATION

A6-307B 1/2" = 1'-0"

NOTES:
PROVIDE EXIT SIGNAGE PER IBC



LOCATION PER **B1** A6-307B TYP

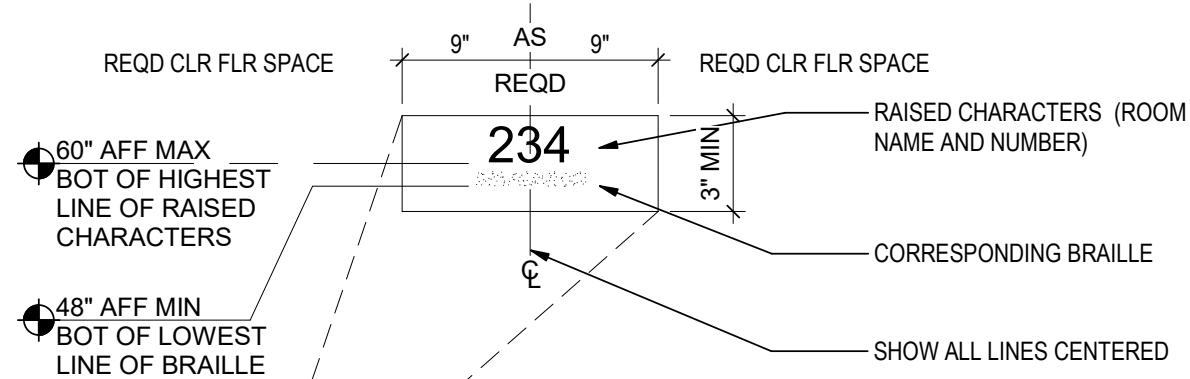
CHARACTERS AND BRAILLE PER **A2** A6-307B TYP

A1 EXIT SIGNS

A6-307B 1/2" = 1'-0"

NOTES:

- PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
- MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF THE DOOR. PROVIDE 18" SQUARE CLEAR FLOOR AREA AT TACTILE SIGNS.
- SIGNS AND IDENTIFICATION SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY, IN ACCORDANCE WITH SECTION 11B-703.1.1.2 "INSPECTION"



- NOTES:
- VERIFY ROOM NAMES W/ ARCHITECT BEFORE FABRICATION
 - MOUNTED TO WALL PER SPECIFICATIONS
 - CENTER CHARACTERS AND BRAILLE
 - IF SIGN TACTILE CHARACTERS ARE NOT CENTERED, CLEAR FLOOR AREAS NEED TO BE ADJUSTED. SEE DETAIL 20

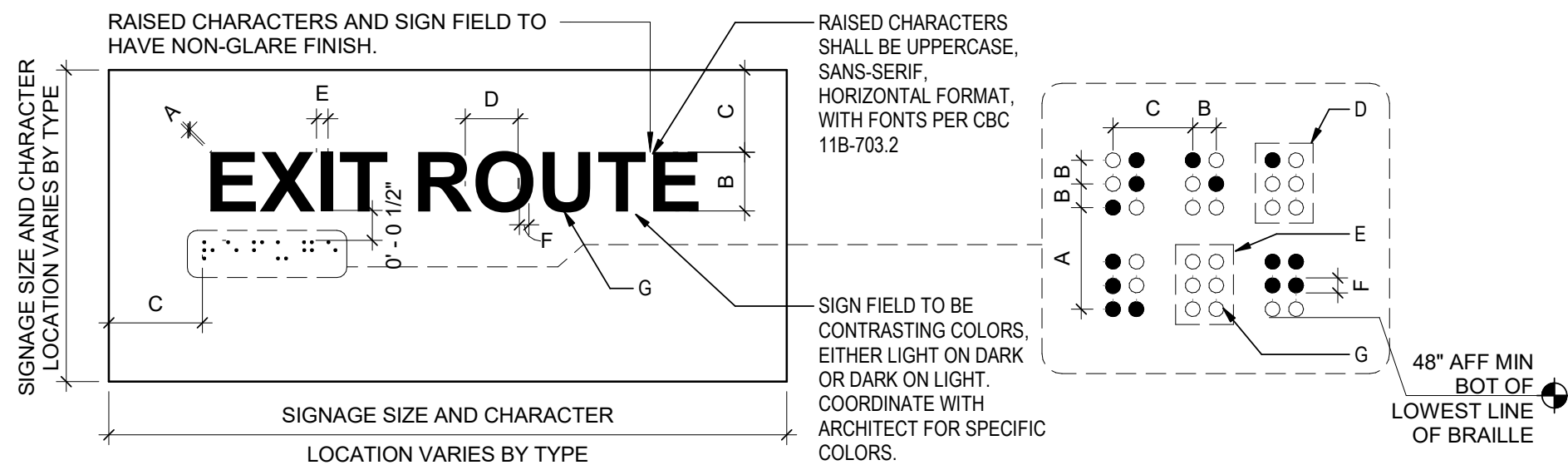
CHARACTERS AND BRAILLE PER

A2 A6-307B TYP

SIGNS FOR FUNCTIONAL ROOMS AND SPACES

B2

A6-307B 1/4" = 1'-0"



RAISED CHARACTER REQUIREMENTS AND LEGEND:

- CHARACTERS SHALL BE RAISED 1/32" MINIMUM ABOVE THEIR BACKGROUND.
- CHARACTER HEIGHT SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH BASED ON THE UPPERCASE "I".
- CHARACTERS SHALL BE SEPARATED FROM ANY RAISED BORDER OR DECORATIVE ELEMENT BY 3/8"
- CHARACTER FONT PROPORTION WITH THE UPPERCASE "O" WIDTH BEING 60 PERCENT MINIMUM TO 110 PERCENT MAXIMUM THE HEIGHT OF THE UPPERCASE "I".
- CHARACTER STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15 PERCENT MAXIMUM THE HEIGHT OF CHARACTER.
- CHARACTER THAT ARE RECTANGULAR IN CROSS SECTION SHALL BE A 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
- RAISED CHARACTERS SHALL HAVE EASED EDGES.

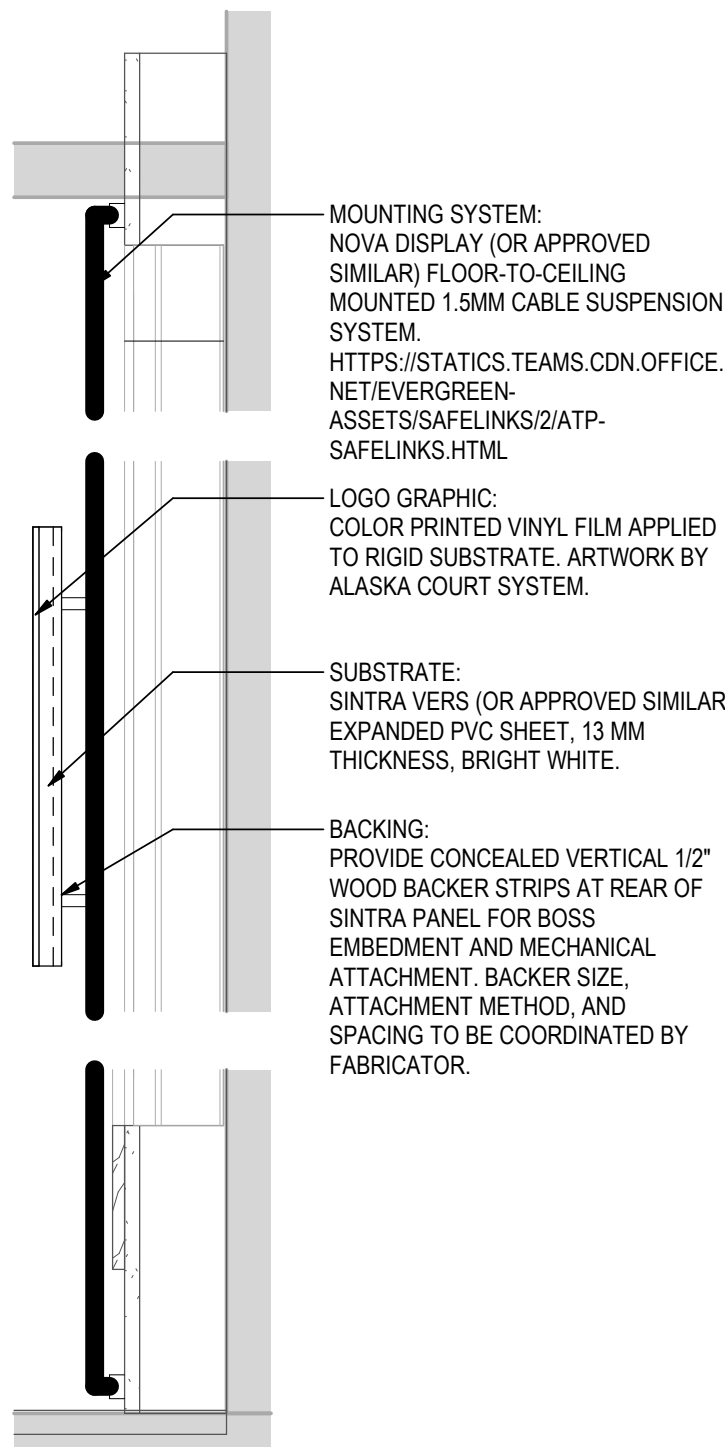
A2 ACCESSIBLE TACTILE SIGN REQUIREMENTS

A6-307B 6" = 1'-0"

BRAILLE REQUIREMENTS AND LEGEND:

- BRAILLE SHALL BE PER CBC 11B-703.3 INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: DISTANCES IN INCHES, MIN TO MAX
- DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW: 0.395 TO 0.400
 - DISTANCE BETWEEN TWO DOTS IN THE SAME CELL : 0.100
 - DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS: 0.300
 - SINGLE BRAILLE CELL
 - BLANK CELL SPACE BETWEEN WORDS
 - BASE DIAMETER: 0.059 TO 0.063
 - NO RAISED DOT

BRAILLE TO BE CONTRACTED GRADE 2, AND DOT HEIGHT TO BE 0.025 TO 0.037



NOTES: LOGO PANEL SHALL BE ATTACHED TO VERTICAL CABLES USING CONCEALED SINGLE-SIDED BOSS ATTACHMENTS (BASIS OF DESIGN: NOVA CS03 WITH P02 INSERT OR APPROVED EQUAL) RESULTING IN VISIBLE PANEL AND CABLES WITH HIDDEN ATTACHMENT HARDWARE.

LOGO PANEL SHALL BE INDEPENDENTLY SUPPORTED AND SHALL NOT ATTACH TO OR BEAR ON LIGHTGLASS. INSTALLATION SEQUENCING AND ADJUSTMENT METHODS ARE CONTRACTOR/FABRICATOR MEANS AND METHODS.

A5 DETAIL - LOGO MOUNT

A6-307B 1 1/2" = 1'-0"

Consultant

Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Basement

Project No.:2014331970

Title

INTERIOR DETAILS -
SIGNAGE

Scale:As indicated

Revision:3

NUMBER:

A6-307B



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GENERAL NOTES - DOOR, FRAME, HARDWARE & WINDOW

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING.
2. ALL DOORS, FRAMES, HARDWARE, WINDOWS, AND FINISHES TO BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION
4. SEE FLOOR PLANS AND ELEVATIONS FOR DOOR AND WINDOW TYPES, FINISH LOCATIONS AND EXTENTS, AND ADDITIONAL INFORMATION NOT INCLUDED IN SCHEDULE, INCLUDING BUT NOT LIMITED TO DIMENSIONS AND FINISH INFORMATION.
5. SEE INTERIOR DETAIL SHEETS FOR TYPICAL DOOR AND WINDOW HEADER, SILL, JAMB, AND MISC. DETAILS.
6. OFO CARD READERS (W/ CFCI, JBOX & CONUIT W/ PULLY) & ODO CAMERAS ARE NOT IN SCOPE OF WORK. CONTRACTOR TO COORDINATE CARD READERS AND CAMERA LOCATIONS AND INSTALLATION WITH OWNER PRIOR TO SUBMITTING DOOR HARDWARE SUBMITTAL. DOOR HARDWARE SUBMITTAL TO INCLUDE ASSOCIATED ELECTRIFIED HARDWARE AT DOORS WITH CARD READERS.

DOORS AND FRAMES

1. WOOD DOORS: AWE PREMIUM GRADE WOOD DOORS WITH GLUED BLOCK SOLID CORED AND AWE TYPE I STANDARD THICKNESS WOOD GLUE VENEERS OF IS. PROVIDE 5-PLY OR 7-PLY FACE PANELS OF **Premium Grade Rotary Sliced Natural Birch**. MINIMUM PLY THICKNESS SHALL BE 1/40 OF AN INCH. DOORS SHALL BE CONSTRUCTED WITH TYPE II WATER-RESISTANT ADHESIVE. DOORS SHALL BE FINISHED WITH A TRANSPARENT FINISH COATING. PROVIDE LABELS AND/OR CERTIFICATES FROM AWE OR WCI CERTIFICATION PROGRAM INDICATING THAT DOORS COMPLY WITH GRADES SPECIFIED.
2. SOUND RATED DOORS: WHERE SCHEDULED, PROVIDE DOORS WITH AN STC RATING OF 45 OR GREATER.
3. HOLLOW METAL DOOR FRAMES: PROVIDE FULLY WELDED FRAMES.

HARDWARE

1. SEE FLOOR PLAN DRAWINGS FOR DOORS WITH CARD READERS. COORDINATE WITH ELECTRICAL.
2. FOR DOOR HARDWARE GROUPS, SEE PROJECT SPECIFICATIONS.
3. KEYING: FACILITY KEY TYPE, KEYING SYSTEM, ACCESS CONTROL, AND INTRUSION DETECTION SYSTEM TO BE COORDINATED WITH CLIENT.
4. HINGES: WHERE HINGE IS EXPOSED TO PUBLIC AREA, PROVIDE NRP (NON-REMOVABLE PIN) AND/OR TAMPER PROOF HINGES.
5. MORTISE LOCKS AND LATCHES: GRADE 1 (PUBLIC), GRADE 2 (STAFF).
6. BORED LOCKS AND LATCHES: GRADE 1 (PUBLIC), GRADE 2 (STAFF).
7. AUXILIARY LOCKS: GRADE 1.
8. EXIT DEVICES: GRADE 1.
9. DOOR BOLTS: AUTOMATIC LATCHING FLUSH BOLTS.
10. CLOSERS: GRADE 1.
11. FINISHES: BHMA A156.18. HARDWARE SHALL HAVE BHMA 630 FINISH (SATIN STAINLESS STEEL), UNLESS SPECIFIED OTHERWISE. PROVIDE ITEMS NOT MANUFACTURED IN STAINLESS STEEL IN BHMA 626 FINISH (SATIN CHROMIUM PLATED) OVER BRASS OR BRONZE, EXCEPT SURFACE DOOR CLOSERS WHICH SHALL HAVE ALUMINUM PANT FINISH, AND EXCEPT STEEL HINGES WHICH SHALL HAVE BHMA 652 FINISH (SATIN CHROMIUM PLATED). EXIT DEVICES MAY BE PROVIDED IN BHMA 626 FINISH IN LINE OF FINISH. BHMA 630 FINISH. EXPOSED PORTS OF CONCEALED CLOSERS SHALL HAVE FINISH TO MATCH LOCK AND DOOR TRIM. HARDWARE FOR ALUMINUM DOORS SHALL BE FINISHED TO MATCH THE DOORS.
12. GLAZING: PROVIDE SAFETY GLAZING WHERE REQUIRED PER IBC.

MATCH EXISTING MANUFACTURERS (BASEMENT):

DOO

- VT INDUSTRIES
- EXIT DEVICES, POWER TRANSFERS:
- VON DUPRIN-ALLEGION
- ELEC AND NON-ELEC CYLINDRICAL AND MORTISE LOCKSETS:
- SCHLAGE-ALLEGION
- SMALL FORMAT INTERCHANGEABLE CORES:
- MEDECO-KEYMARK X4

ELECTRIC STRIKES, POWER SUPPLIES:

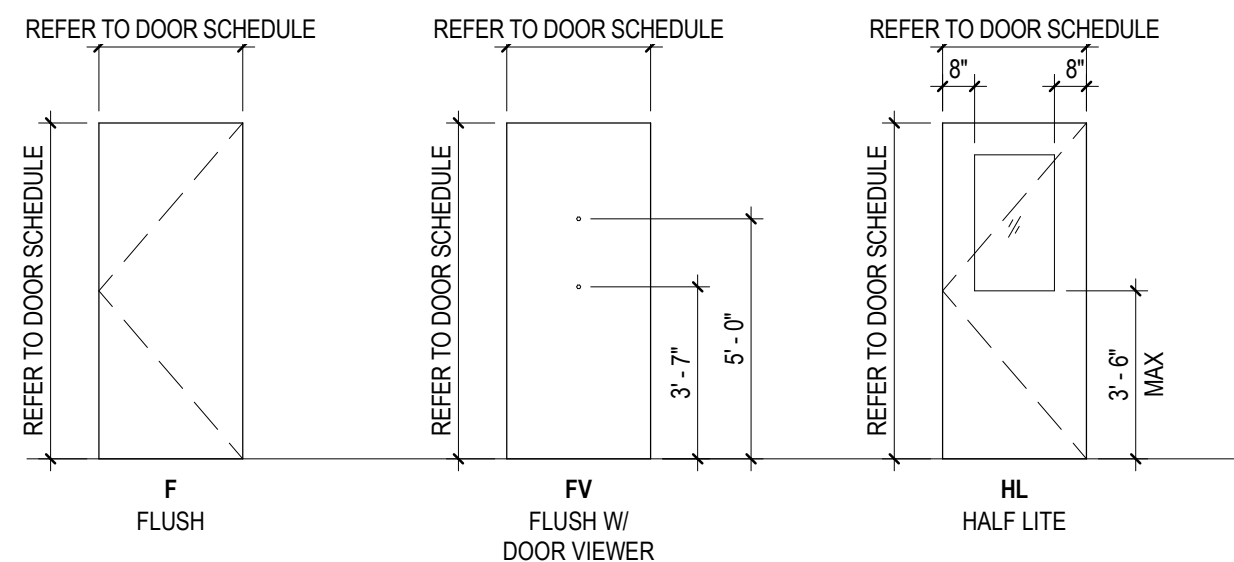
- HES-ASSA ABLOY
- CLOSERS:
 - LCN
- HINGES:
 - HAGER
- ACOUSTIC STC KITS, THRESHOLDS, ASTRAGALS, GASKETING:
 - NATIONAL GUARD
- DOOR STOPS, FLUSH BOLTS, FLAT GOODS
 - TRIMCO
- OF/OI CARD READERS (W/ CFICI, J-BOX, CONDUIT W/ PULL, & ASSOC. ELEC. HW)
 - HID MULTICLASS SE

WINDOWS (BASEMENT)

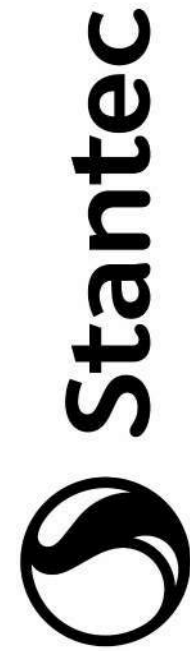
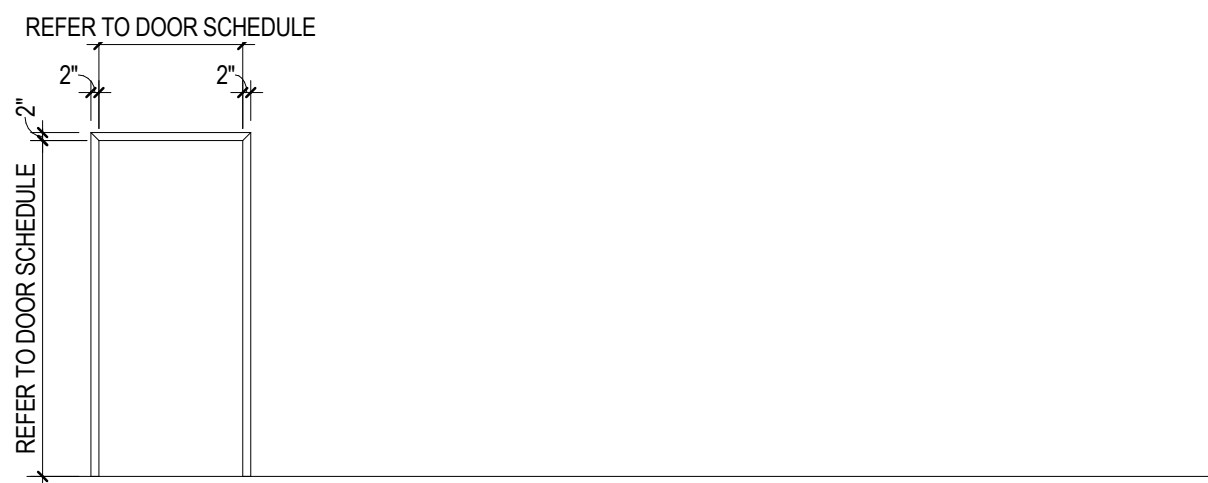
1. NEW UNRATED GLAZING TO BE 1/4" TEMPERED SAFETY GLAZING, UNO.
2. LEVEL 1 BALLISTIC TRANSACTION WINDOW

DOOR SCHEDULE - CONNECTOR																				
DOOR NO.	ROOM NAME	DOOR							FRAME				DOOR NO.	HDWR SET #	HDWR COMMENTS	SEC SET	KICK / MOP	WALL / FLOOR BUMPER	STC SEAL / KIT	COMMENTS
		WIDTH	HEIGHT	THICK	TYPE	MAT'L	FIN	GLAZ	MAT'L	FIN	DETAILS									
											FLOOR TRANS									
B03	STORAGE	3'-0"	7'-0"	0'-2"	F	EX WD-1	EX	-	EX HM	PT-1	-	B03	21	NEW CLOSER	EX CR	EX	EX	-	NEW CLOSER (MISSING)	
B13	THERAPEUTIC COURT	3'-0"	7'-0"	0'-2"	HL	EX WD-1	EX	EX	EX HM	PT-1	THRESH FOR AUTO DB	B13	23	ELEC STRIKE, CLOSER	CR	EX	FB	PERIM SEAL, AUTO DB	EXIST	
B15	CORRIDOR	3'-0"	7'-0"	0'-2"	F	EX WD-1	EX	-	EX HM	PT-1	-	B15	28	SEE COMMENTS	EX CR	EX	EX	-	EXIST, NEW ADA DOOR OPERATOR ON BOTH SIDES	
B20	JANITOR	3'-0"	7'-0"	0'-2"	HL	EX WD-1	EX	EX HL, ADD NEW FILM	EX HM	PT-1	-	B20	22	EXIST	-	KICK / MOP	EX	PERIM SEAL	EXIST	
B21	TC OFFICE	3'-0"	7'-0"	0'-2"	HL	EX WD-1	EX	EX	EX HM	PT-1	THRESH FOR AUTO DB	B21	23	ELEC STRIKE, CLOSER	CR	EX	EX	PERIM SEAL, AUTO DB	EXIST	
B22	TC OFFICE	3'-0"	7'-0"	0'-2"	HL	EX WD-1	EX	EX	EX HM	PT-1	THRESH FOR AUTO DB	B22	23	ELEC STRIKE, CLOSER	CR	EX	EX	PERIM SEAL, AUTO DB	EXIST	
NB09A	LOBBY	3'-0"	7'-0"	0'-2"	HL	WD-1	FF	BR-1	HM	PT-1	-	NB09A	17	ELEC MORTISE F05 CLASSROOM	CR	KICK	FB	PERIM SEAL	LEVEL 1 BULLET RESISTANCE, MATCH EX B08 - MIRROR TINT FILM	
NB10A	WITNESS ROOM	3'-0"	7'-0"	0'-2"	FV	WD-1	FF	-	HM	PT-1	THRESH FOR AUTO DB	NB10A	16	ELEC CYL F84 CLASSROOM	EX CR	KICK	EX	PERIM SEAL, AUTO DB	EXIST FRAME, NEW DOOR, VIEWER FROM B10 TO B14	
NB10B	GRAND JURY HEARING ROOM	3'-0"	7'-0"	0'-2"	FV	WD-1	FF	-	HM	PT-1	THRESH FOR AUTO DB	NB10B	04	ELEC CYL F84 CLASSROOM	CR	KICK	FB	STC FULL KIT	FROM B10 TO B12	
NB12	GRAND JURY HEARING ROOM	3'-0"	7'-0"	0'-2"	F	WD-1	FF	-	HM	PT-1	THRESH FOR AUTO DB	NB12	14	ELEC MORTISE F05 CLASSROOM	CR	KICK	CLOSER 90 STOP	STC FULL KIT	DOOR VIEWER TO B12	
NB19	ADA WIC	3'-0"	7'-0"	0'-2"	F	WD-1	FF	-	HM	PT-1	-	NB19	20	CYL F76 PRIVACY W/ INDICATOR	-	KICK / MOP	FB	PERIM SEAL		
RB09	CORRIDOR	3'-0"	7'-0"	0'-2"	FV	EX WD-1	EX	-	EX HM	PT-1	-	RB09	29	ELEC STRIKE, CLOSER, SEE COMMENTS	CR	KICK	WB	BUMPERS	CR, EMERGENCY EXIT DOOR RELEASE BUTTON, AND ADA DOOR OPERATOR ON BOTH SIDES, VIEWER FROM B16 TO B14	
RB12	THERAPEUTIC COURT	3'-0"	7'-0"	0'-2"	HL	EX WD-1	EX	EX	EX HM	PT-1	THRESH FOR AUTO DB	RB12	30	ELEC STRIKE, CLOSER, SEE COMMENTS	CR	KICK	WB	PERIM SEAL, AUTO DB	EXIST FRAME, SALVAGED HL DOOR, NEW CR AND NEW ADA DOOR OPERATOR W/ BUTTON ON PUSH SIDE ONLY	
RB14	THERAPEUTIC COURT	3'-0"	7'-0"	0'-2"	HL	EX WD-1	EX	EX	EX HM	PT-1	THRESH FOR AUTO DB	RB14	24	ELEC STRIKE, CLOSER	CR	KICK	WB	PERIM SEAL, AUTO DB	SALVAGED DOOR, VIEWER FROM B12 TO B14	
RB18	SECURE FILE STORAGE	3'-0"	7'-0"	0'-2"	F	EX WD-1	EX	-	EX HM	PT-1	-	RB18	25	ELEC CYL F86 STOREROOM	CR	KICK	FB	BUMPERS	SALVAGED DOOR	

DOOR TYPES



FRAME TYPES



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Consultant

[illegible]

Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Basement

Project No.:2014331970

Title

DOOR, WINDOW, & FRAME SCHEDULES / TYPES

Scale: As indicated

Revision:3

NUMBER:

A6-901B

INTERIOR PARTITION LEGEND

PARTITION IDENTIFIER:
 1 = FULL HEIGHT PARTITION, INSULATION
 2 = FULL HEIGHT PARTITION, INSULATION + GWB LAYERS
 3 = PARTIAL HEIGHT PARTITION, INSULATION + GWB LAYERS
 4 = PARTIAL HEIGHT PARTITION, NO INSULATION
 E = EXISTING INFILL
 R = RETROFIT AT EXISTING PARTITION

- STUD WIDTH:
0 = STUD SIZE VARIES
1 = 1" METAL STUDS
2 = 2 1/2" METAL STUDS
3 = 3 5/8" METAL STUDS
4 = 4" METAL STUDS
6 = 6" METAL STUDS

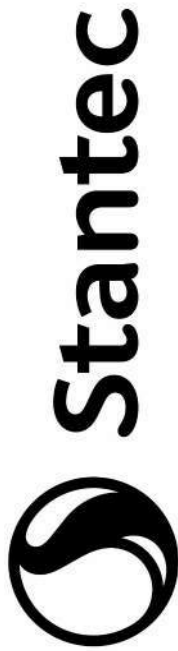
SHAFT WALL:
4 = 4" CH STUDS
6 = 6" CH STUDS

– HOURLY FIRE RATING
1 = 1 HOUR
S = SMOKE RATING

PARTITION TYPE:
A= GWB EA SIDE
B= BALLISTIC
C= ACOUSTIC PARTITION
F= FURRING WALL
P= PLUMBING WALL
S= STRUCTURALLY ENHANCED
X= ADDITIONAL ACOUSTIC GWB

GENERAL NOTES - PARTITIONS

1. REFER TO THE FLOOR PLANS FOR PARTITION TYPE TAGS. A PARTITION TYPE CONTAINS THE PARTITION IDENTIFICATION WHICH REFERS TO A SPECIFIC ASSEMBLY INDICATED ON THIS SHEET.
2. REFER TO A6-3018 FOR PARTITION DETAILS.
3. THE CONSTRUCTION OF EXTERIOR WALLS IS SHOWN ON WALL SECTIONS & CONSTRUCTION DETAILS. INTERIOR FIRE ONLY USED TO SHOW INTERIOR CONDITIONS, INCLUDING INTERIOR FURRING OF EXTERIOR WALLS.
4. PARTITION TYPES AS NOTED BY THE TAG CONTINUE BETWEEN ROOM/SPACE CORNERS OR ANY INTERSECTING PARTITION UON. PARTITION TYPES ALSO CONTINUE PAST PLASTER AND OTHER BUMP OUTS
5. THE PARTITION TYPE ABOVE OR BELOW ANY OPENING IS TO BE SAME AS THAT DESIGNATED FOR EITHER SIDE OF THE OPENING, UON.
6. DIVIDE VISUALLY PLASTER PARTITION TYPES SHALL ALIGN SO THAT PARTITION FINISH PLANES CONTINUE UNBROKEN WITHIN AND/OR ACROSS SPACES.
7. IN CASES WHERE TWO DIFFERENT CEILING HEIGHTS ABUT PARTITIONS, THE PARTITION SHALL EXTEND ABOVE THE HIGHEST CEILING INDICATED.
8. GYPSUM BOARD SHALL BE FIRE RESISTANT, TYPE 'X' UON. FIRE RATED PARTITIONS SHALL BE CONSTRUCTED PER THE INDICATED FIRE TESTED ASSEMBLY.
9. PROVIDE MOISTURE RESISTANT GYP BOARD AT PARTITIONS IN WET AREAS (FLOOR TO CEILING) INCLUDING BUT NOT LIMITED TO: TOILET ROOMS
10. FILL STUD CAVITIES WITH ACOUSTIC INSULATION & RUN INSULATION CONTINUOUS AROUND COLUMNS & OTHER OBSTRUCTIONS TO FORM A CONTINUOUS ACOUSTIC BARRIER.
11. INSTALL ACOUSTIC INSULATION, FULL WIDTH, DEPTH, AND HEIGHT UON.
12. INSTALL ACOUSTICAL SEALANT AT PARTITION HEAD, SILL, & JAMB TRANSITIONS, AS WELL AS AT PENETRATIONS THROUGH THE GYPSUM BOARD MEMBRANE INCLUDING PENETRATIONS AT MOUNTING BRACKETS. FIRE STOPPING REQUIREMENTS SHALL SUPERCEDE ACOUSTIC TREATMENT.
13. TO MAINTAIN ACOUSTICAL PERFORMANCE, GWB SHALL NOT CONTACT ADJACENT GWB AT CORNER TRANSITIONS. AT ALL GWB CORNERS (HORIZONTAL AND VERTICAL), PROVIDE CONTINUOUS 1/4" GAP AND SEAL AIRTIGHT WITH AN ACOUSTIC SEALANT.
14. THE BACK AND SIDES OF DUPE ELECTRICAL OUTLETS, TELE / DATA OUTLETS, AV BOXES, FIRE ALARM DEVICES, THERMOSTATS, ETC. SHALL BE SEALED WITH FIRE RESISTANT GYB PAD OR GYB SHEET FOR FURTHER INFORMATION.
15. PENETRATIONS THROUGH FIRE/SMOKE RATED ASSEMBLIES AND ACOUSTIC PADS AS SPECIFIED FOR SOUND RATED ASSEMBLIES. ELSEWHERE, BACK-TO-BACK OUTLET BOXES TO BE SEPARATED BY ONE EMPTY STUD SPACE AND A MINIMUM OF 16 INCHES.
16. PARTITIONS INDICATED AS FIRE OR SMOKE RATED FORM A SEPARATION THAT SHALL BE CONTINUOUS FROM FLOOR TO STRUCTURE ABOVE WITH NO BREAKS AT CONCEALED SPACES, COLUMNS, TRANSITIONS OR OTHER OBSTRUCTIONS. REFER TO SECTION 05-20-00 FOR FURTHER INFORMATION.
17. PENETRATIONS THROUGH FIRE/SMOKE RATED PARTITIONS SHALL BE SEALED WITH U PARTITIONS FIRE/SMOKE STOP ASSEMBLY. PENETRATIONS THROUGH SOUND RATED PARTITIONS SHALL BE SEALED WITH ACOUSTIC ASSEMBLY.



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Permit/Seal



Alaska Court System

Palmer Courthouse
Expansion - PSOB
Basement

Project No.:2014331970

Title

PARTITION TYPES

Scale: As indicated

Revision: 3

NUMBER

A9-101B

A

B

C

D

GENERAL NOTES

XIV. STRUCTURAL LUMBER

- ALL STRUCTURAL SAWN LUMBER SHALL BE MINIMUM SPRUCE PINE FIR AS GRADED BY THE WYPA OR WCLB WITH THE FOLLOWING MINIMUM GRADES, UNLESS NOTED OTHERWISE:
 - 2X OR 3X STUDS: NO. 2
 - 4X AND LARGER POSTS OR STUDS: NO. 1
 - 2X OR 3X JOISTS: NO. 2
 - 4X AND LARGER BEAMS OR JOISTS, CONCEALED: NO. 1
 - 4X AND LARGER BEAMS OR JOISTS, EXPOSED: SELECT STRUCTURAL
- ALL STRUCTURAL COMPOSITE LUMBER (SCL) OR ENGINEERED LUMBER SHALL BE AS FOLLOWS:
 - LVL: VERSALAM LVL MANUFACTURED BY BOISE CASCADE, Fb = 2800 PSI MIN.
 - SUBSTITUTION OF PRODUCTS LISTED ABOVE SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.
- STRUCTURAL GLUE LAMINATED TIMBER (GLT):
 - GLT FABRICATION SHALL BE PERFORMED IN AN APPROVED FABRICATORS SHOP IN ACCORDANCE WITH IBC 2303.1.3, ANSI/AITC A190.1 AND ASTM D3737.
 - GLT BEAMS SHALL BE 24F-V4 WITH A CAMBER OF R=1600' UNLESS NOTED OTHERWISE.
 - GLT EXPOSED TO WEATHER SHALL BE RATED FOR EXTERIOR USE BY THE MANUFACTURER. FLASHING AND WATERPROOFING OF THE EXPOSED ENDS SHALL BE PROVIDED BY THE CONTRACTOR TO PREVENT DECAY.
 - ALL GLT MEMBERS SHALL HAVE APPEARANCE CLASSIFICATION AS SPECIFIED ON THE ARCHITECTURAL DRAWINGS.
- ALL STRUCTURAL TIMBER FRAMING SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF ENCLOSURE, REGARDLESS OF THE MOISTURE CONTENT AT THE TIME OF MANUFACTURE. TIMBER FLOOR FRAMING, INCLUDING JOISTS AND BEAMS, WITH MORE THAN 2 FRAMED LEVELS ABOVE THEM SHALL BE DESIGNATED AS 'S-DRY' OR 'MC15' AND HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF ENCLOSURE.
- CONTRACTOR SHALL PROVIDE AT LEAST THREE RANDOM MOISTURE READINGS PERFORMED AT WALL AND FLOOR FRAMING IN THE PRESENCE OF THE BUILDING INSPECTOR PRIOR TO APPROVAL TO ENCLOSURE TO VERIFY IN SERVICE MOISTURE CONTENT TO SATISFY THE REQUIREMENTS ABOVE.
- ALL LUMBER LOCATED IN DIRECT CONTACT WITH CONCRETE OR EARTH INCLUDING BUT NOT LIMITED TO SILL PLATES, NAILERS, AND LEDGERS SHALL BE PRESSURE TREATED DOUGLAS FIR.
- ALL HARDWARE SHALL BE SIMPSON STRONG-TIE CO INSTALLED PER MANUFACTURERS RECOMMENDATIONS. SUBSTITUTION OF EQUIVALENT HARDWARE ON AN ALTERNATE MANUFACTURER SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- MINIMUM FASTENING AND NAILING OF TIMBER COMPONENTS SHALL BE IN ACCORDANCE WITH IBC TABLE 2304.10.1.
- FASTENERS SHALL BE PROVIDED NEW AND WITHOUT EXCESSIVE RUST. ALL FASTENERS EXPOSED TO WEATHER SHALL BE GALVANIZED.
- ALL METAL FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED LUMBER SHALL BE STAINLESS STEEL OR OTHERWISE CERTIFIED BY THE MANUFACTURER TO RESIST CORROSION CAUSED BY THE SPECIFIC TREATMENT APPLIED TO THE WOOD.
 - ALL NAILS SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE
 - MINIMUM NAIL PENETRATION SHALL BE 10 TIMES THE SHANK DIAMETER UNLESS NOTED OTHERWISE.
 - EDGE DISTANCES, END DISTANCES, AND FASTENER SPACINGS SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD.
 - BORED PILOT HOLES SHALL BE PERMITTED FOR ALL NAILS TO HELP PREVENT WOOD FROM SPLITTING. BORED HOLES SHALL BE MANDATORY FOR 20d AND LARGER NAILS. WHEN UTILIZED BORED HOLES SHALL HAVE A DIAMETER NOT EXCEEDING 75% OF THE NAIL DIAMETER.
 - TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF APPROXIMATELY 30 DEGREES WITH THE MEMBER AND STARTED APPROXIMATELY 1/3 THE LENGTH OF THE FASTENER FROM THE MEMBER END.
- WOOD SCREWS:
 - WOOD SCREWS SHALL MEET THE DIMENSIONAL STANDARDS OF ANSI/ASME B18.6.1.
 - MINIMUM SCREW PENETRATION SHALL BE 10 TIMES THE SCREW DIAMETER UNLESS NOTED OTHERWISE.
 - EDGE DISTANCES, END DISTANCES, AND FASTENER SPACINGS SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD.
 - BORED LEAD HOLES SHALL BE PROVIDED WITH A DIAMETER EQUAL TO APPROXIMATELY 7/8 OF THE SCREW ROOT DIAMETER.
 - WOOD SCREWS SHALL BE TURNED, NOT DRIVEN INTO PLACE. SOAP OR OTHER LUBRICANTS MAY BE PROVIDED TO FACILITATE INSERTION AND TO PREVENT DAMAGE TO THE SCREWS.
- BOLTS AND LAG SCREWS:
 - BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307 AND MEET THE DIMENSIONAL STANDARDS OF ANSI/ASME B18.2.1.
 - HOLES FOR BOLTS SHALL BE A MINIMUM 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
 - BOLTS SHALL BE ACCURATELY ALIGNED IN MAIN MEMBERS AND SIDE PLATES. BOLTS SHALL NOT BE FORCIBLY DRIVEN INTO PLACE.
 - BORED LEAD HOLES FOR LAG SCREWS SHALL BE 40-70% OF THE SHANK DIAMETER AT THE THREADED PORTION OF THE SCREW, AND THE SAME DIAMETER AS THE SHANK AT THE SHANK.
 - LAG SCREWS SHALL BE TURNED, NOT DRIVEN INTO PLACE.
 - ALL BOLTS, NUTS, AND LAG SCREWS SHALL BE PROVIDED WITH FLAT OR MALLEABLE WASHERS WHERE BEARING AGAINST DIRECTLY AGAINST WOOD.
 - ALL BOLTS AND LAG SCREWS SHALL BE TIGHTENED UPON INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- ALL BUILT UP, DOUBLE 2X BEAMS AND JOISTS SHALL BE FASTENED TOGETHER WITH 2-ROWS 10d NAILS AT 12" OC.
- PROVIDE SOLID BLOCKING IN JOIST FRAMING ABOVE ALL SUPPORTS, BELOW PARTITION WALLS, AND AT MIDSPAN OF JOISTS SPANNING GREATER THAN 10 FEET.
- SUPPORT ALL UPPER LEVEL POSTS AND TRIMMERS IN LOWER LEVELS WITH EQUIVALENT FRAMING AND/OR BLOCKING OR OTHERWISE FRAME POSTS THROUGH FLOOR SYSTEMS.
- FIRE BLOCK STUD WALLS AT MID-HEIGHT WHERE STUD LENGTH EXCEEDS 10 FEET.
- NOTCHING OR CUTTING STUDS TO CLEAR ANCHOR BOLTS IS NOT PERMITTED. STUDS SHALL HAVE FULL BEARING ON THE SILL PLATE.
- LET-IN BRACES SHALL NOT BE USED FOR TEMPORARY BRACING ON ANY WALL FRAME. STEEL STRAPS WHICH DO NOT REQUIRE THE CUTTING OF STUDS ARE AN ACCEPTABLE ALTERNATIVE.
- WHERE POSTS ARE SPECIFIED WITH CAPS AND/OR BASES, THE LOAD SHALL BE TRANSFERRED TO THE FOUNDATION BY VERTICAL GRAIN ONLY.
- DO NOT CUT, BORE, COUNTERSINK OR NOTCH WOOD MEMBERS EXCEPT WHERE EXPLICITLY SHOWN IN THE DETAILS.
- HOLD-DOWNS SHALL BE INSTALLED 1/2" MINIMUM ABOVE THE PLATE TO ALLOW FOR TIGHTENING OF THE ANCHOR BOLT. THE HOLD-DOWN SHALL BE INSTALLED TIGHT TO THE POST WITHOUT FILLERS. DO NOT BEND HOLD-DOWN ANCHORS. TIGHTEN ANCHORS PER MANUFACTURERS RECOMMENDATIONS PRIOR TO COVERING THE WALL FRAMING.

XI. DEFERRED STRUCTURAL SUBMITTALS

- SOME STRUCTURAL SYSTEMS ARE DEFINED AS CONTRACTOR-DESIGNED COMPONENTS PER THE STRUCTURAL DOCUMENTS. THESE ELEMENTS OF THE DESIGN ARE DEFERRED SUBMITTAL COMPONENTS AND HAVE NOT BEEN PERMITTED UNDER THE BASE BUILDING APPLICATION. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE STAMPED COMPONENT SYSTEM DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL.
- DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
- SUBMITTALS TO BE PREPARED BY A LICENSED ENGINEER LAWFULLY ELIGIBLE TO DESIGN THE ELEMENT OR COMPONENT (SPECIALTY ENGINEER) AND SHALL BE SEALED IN ACCORDANCE WITH STATE LAW. SUBMITTALS SHALL INCLUDE:
 - CALCULATIONS
 - DIAGRAMS SHOWING LOADS APPLIED TO THE PRIMARY STRUCTURE INCLUDING MAGNITUDES, LOCATIONS, AND DIRECTIONS, SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS.
 - ERECTION OR DESIGN DRAWINGS AS NECESSARY TO DESCRIBE THE SYSTEM OR COMPONENT AND ITS CONNECTION TO THE PRIMARY STRUCTURE.
- SUBMIT (1) REPRODUCIBLE COPY, (1) SET SEALED COPY FOR THE SEOR'S FILE, AND ADDITIONAL COPIES AS NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.
- THE SEOR'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING:
 - DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.
 - LOAD CRITERIA IS CONSISTENT WITH CONTRACT DOCUMENTS.
 - CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY STRUCTURE DESIGN.
 - THE BASE STRUCTURE IS CAPABLE OF SUPPORTING IMPOSED LOADS.
- THE SPECIALTY ENGINEER'S SEAL WILL CERTIFY THAT THE ITEMS DESIGNED BY THE SPECIALTY ENGINEER CONFORM TO THE CRITERIA WITHIN THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES AND STANDARDS.
- IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE CRITERIA WITHIN THE CONTRACT DOCUMENTS THE SUBMITTALS WILL BE REJECTED. CHANGES TO THE PRIMARY STRUCTURE TO ACCOMMODATE SPECIALTY ITEMS WILL ONLY BE MADE AT COST AFTER
- THE FOLLOWING LIST INCLUDES THE ITEMS THAT ARE DEFINED AS DEFERRED STRUCTURAL SUBMITTAL COMPONENTS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR ADDITIONAL DEFERRED SUBMITTAL COMPONENTS.
 - METAL PLATE CONNECTED PREENGINEERED WOOD TRUSSES.
 - EXTERIOR CLADDING AND ATTACHMENT
 - ROOFING ATTACHMENT
 - SEISMIC BRACING FOR MECHANICAL AND ELECTRICAL SYSTEMS
 - CEILING SYSTEM SEISMIC BRACING

XII. SLAB EDGE/OPENING/STEP DIMENSIONS

- REFER TO ARCHITECTURAL DRAWINGS FOR ALL CONCRETE DIMENSIONS NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBLE TO DEVELOP DETAILED SLAB EDGE PLANS BASED ON THE ARCHITECTURAL AND STRUCTURAL PLANS AND DETAILS. SUBMITTED DRAWINGS SHALL CONTAIN ALL CURBS AND EMBEDMENT. DIMENSIONS MAY VARY FROM THE ARCHITECTURAL PLANS AND DETAILS AS THE RESULT OF THE DEPENDENCY ON THE ADJACENT MATERIALS THAT ARE DETERMINED BY THE CONTRACTOR AND/OR SUPPLIER (EXTERIOR SKIN, ELEVATOR EQUIPMENT, FINAL MEP SHAFT SIZES, ETC.) EDGE FRAMEWORK LOCATIONS MAY BE ADJUSTED AS NECESSARY TO ACCOUNT FOR CONSTRUCTION METHODS AND FOR SLAB SHRINKAGE.

XIII. QUALITY ASSURANCE AND SPECIAL INSPECTIONS

- OWNER WILL ENGAGE AN INDEPENDENT TESTING AGENCY TO PERFORM THE TESTS AND INSPECTIONS SHOWN ON THE 'STRUCTURAL TESTING AND INSPECTIONS' SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE PRIOR NOTICE TO ALLOW FOR COMPLETION OF THESE REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE BUILDING DEPARTMENT AND OWNER PRIOR TO WORK ON WIND OR SEISMIC FORCE RESISTING SYSTEMS AND COMPONENTS WHICH ARE LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

VII. ANCHOR RODS

- ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 WITH CLASS 1A THREADS, UNLESS NOTED OTHERWISE. FURNISH ANCHOR RODS PREFABRICATED WITH MATCHING DOUBLE HEAVY HEX NUTS JAMMED AT THE END EMBEDDED IN CONCRETE. FURNISH HARDENED PLATE WASHERS, LOCK WASHERS, AND MATCHING HEAVY HEX NUTS FOR SECURING THE BASE PLATE TO THE ANCHOR RODS. A RIGID STEEL TEMPLATE SHALL BE USED TO LOCATE ANCHOR RODS WHILE PLACING CONCRETE.
- HOOKEED ANCHOR RODS SHALL NOT BE USED EXCEPT WHERE NOTED AND FOR LIGHT FRAMED WALL SILL PLATE ATTACHMENT.
- ANCHOR RODS SHALL HAVE SUFFICIENT LENGTH TO PROVIDE THE MINIMUM EMBEDMENT SHOWN ON THE DRAWINGS, MEASURED FROM THE FACE OF THE CONCRETE TO THE NEAR FACE OF THE DOUBLE NUT, WITH ADEQUATE EXTENSION AS REQUIRED TO RECEIVE THE BASE PLATE WITH FULL THREAD PROJECTION FOR NUT INSTALLATION.
- ANCHOR ROD INSTALLATION SHALL BE COORDINATED WITH REINFORCING AND FRAMEWORK.
- LEVELING NUTS SHALL NOT BE USED EXCEPT AFTER EVALUATION BY THE CONTRACTOR'S ERECTION ENGINEER.
- AFTER BASE INSTALLATION, ANCHOR ROD NUTS SHALL BE INSTALLED TO A SNUG-TIGHT CONDITION.
- NO HEATING OR BENDING OF THE ANCHOR RODS IS PERMITTED. HOLES IN THE BASE MATERIAL SHALL NOT BE ENLARGED BY BURNING.

VIII. MECHANICAL AND ADHESIVE ANCHORS

- ADHESIVE ANCHORS AND DOWELS INSTALLED INTO CONCRETE:
 - "SET-3G" BY SIMPSON STRONG TIE (ICC ESR-4057)
 - "HIT-RE 500-V3" BY HILTI, INC. (ICC ESR-3814)
 - "PURE110+" BY DEWALT (ESR-3298)
- ADHESIVE ANCHORS: ASTM A36 THREADED RODS WITH ASTM A 563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS TO USE ASTM A 563 GRADE DH HEAVY HEX NUTS AND ASTM F 436 WASHERS.
- ADHESIVE DOWELS: ASTM A615 GRADE 60 REINFORCING STEEL.
- ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES REPORT AND MANUFACTURERS RECOMMENDATIONS.
- UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS PER ICC-ES REPORT & MANUFACTURERS RECOMMENDATIONS.
- CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL OR ADHESIVE ANCHORS.
- PRIOR TO ALL DRILLING OR CORING, THE CONTRACTOR SHALL (1) VERIFY THE EXISTING CONCRETE OR MASONRY THICKNESS TO PREVENT DAMAGE TO THE OPPOSITE FACE OF CONCRETE AND MAINTAIN 1'-1 1/2" CLEAR COVER U.N.O., AND (2) IDENTIFY EXISTING REINFORCING LOCATIONS BY PACHOMETER, PROBING, CHIPPING, ETC. TO AVOID DAMAGE EXISTING REINFORCING.
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) CERTIFIED THROUGH ACI/CRSI OR EQUIVALENT (ACI 318-14 17.8.2.2)
- ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-14 17.1.2)

IX. MECHANICAL/ELECTRICAL/PLUMBING SYSTEM SUPPORTS

- THE CONTRACTOR SHALL DESIGN AND SUPPLY ALL ADDITIONAL MISCELLANEOUS METALS OR WOOD FRAMING, AND SYSTEM SUPPORT COMPONENTS THAT ARE NECESSARY TO SUPPORT ALL MECHANICAL, ELECTRICAL (TELECOM, AUDIO VISUAL, ETC.) AND PLUMBING/FIRE PROTECTION SYSTEMS. SUCH METALS OR WOOD FRAMING, AND SUPPORT COMPONENTS AND THEIR CONNECTIONS SHALL BE PROVIDED AS NECESSARY TO DIRECTLY AND CONCENTRICALLY IMPOSE LOADS ON THE PRIMARY STRUCTURE. STEEL OR WOOD ROOF DECK SHALL NOT DIRECTLY SUPPORT THESE SYSTEMS. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE SUBJECT TO THE REQUIREMENTS OF THE MISCELLANEOUS METALS OR ROUGH CARPENTRY SECTIONS.

X. MISCELLANEOUS METALS

- THE CONTRACTOR SHALL DESIGN AND SUPPLY ALL ADDITIONAL MISCELLANEOUS METALS OR WOOD FRAMING THAT ARE INDICATED IN THE ARCHITECTURAL DRAWINGS OR THOSE, OR METALS, OR WOOD FRAMING, WHICH ARE FOUND TO BE NECESSARY TO SUPPORT THE ARCHITECTURAL FINISHES OR OTHER BUILDING SYSTEMS.
- ALL FRAMING AND CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL NOT RESULT IN ECCENTRIC LOADS BEING APPLIED TO THE PRIMARY STRUCTURE NOR LATERAL LOADS BEING APPLIED TO THE BOTTOM FLANGE OF THE STEEL BEAM OR BOTTOM OF WOOD JOIST / TRUSSES. THE CONTRACTOR SHALL VERIFY THAT THE CONNECTIONS DO NOT RESULT IN ADVERSE LOCAL CONNECTION STRESSES OCCURRING WITHIN THE PRIMARY STRUCTURE. SUBMIT SEALED CALCULATIONS AND SHOP DRAWINGS INDICATING IMPOSED LOADS ON THE PRIMARY STRUCTURE.

Consultant

Permit/Seal



Alaska Court System

Palmer Courthouse
Renovation &
Expansion

Title Project No.:2014331970

Title

GENERAL NOTES - 2

Scale:

Revision:3

NUMBER:

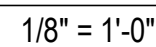
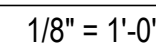
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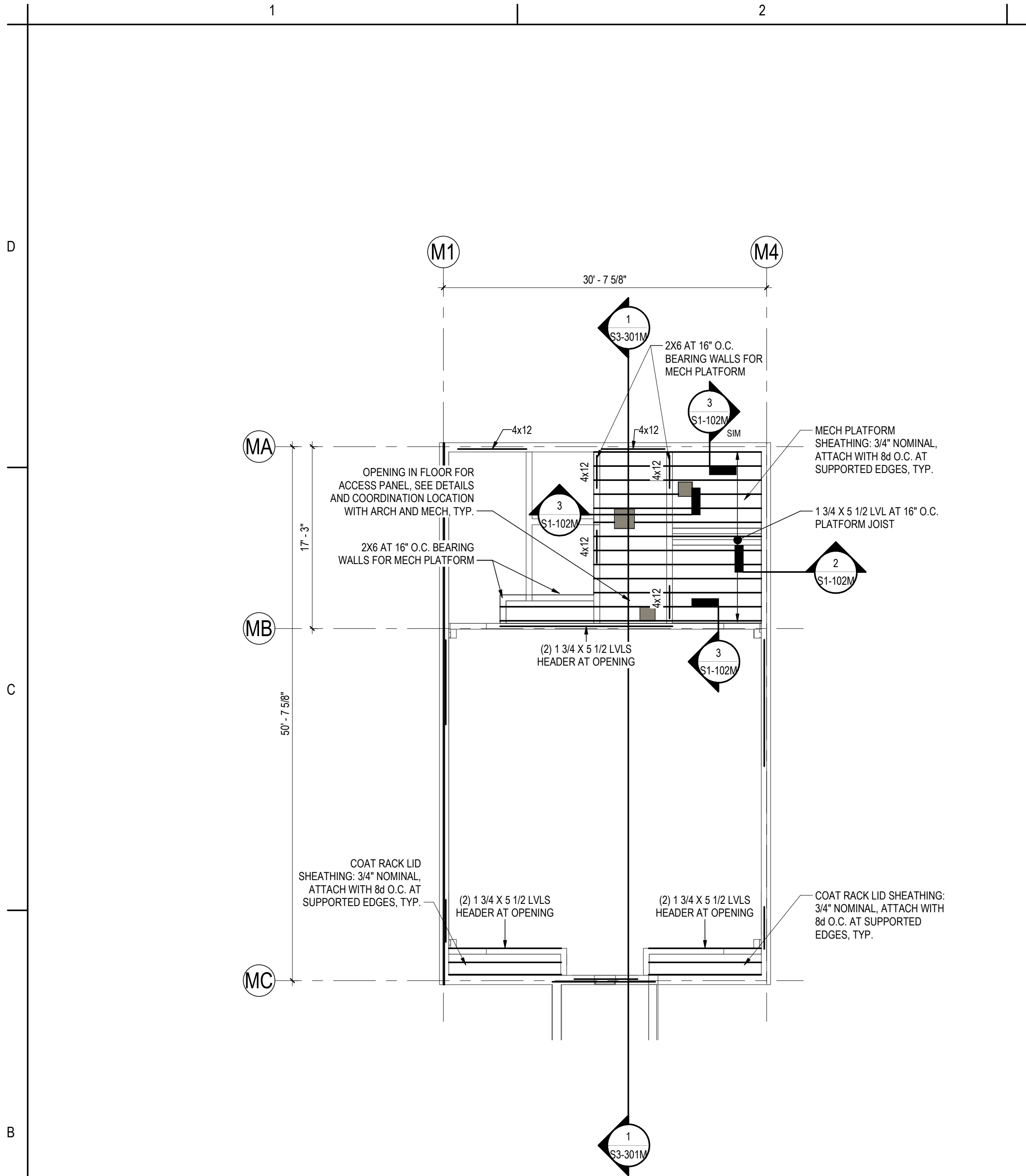


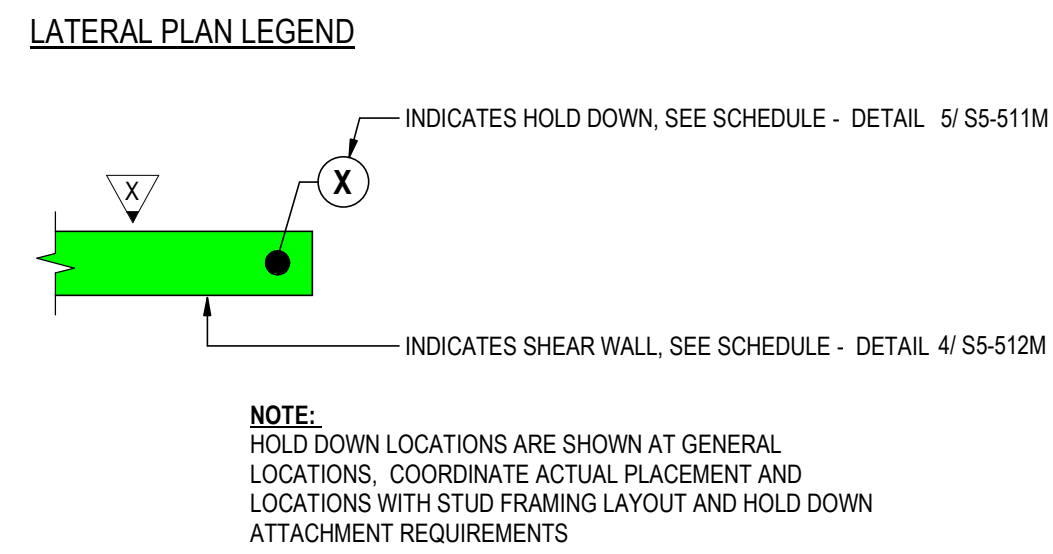
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NOTE:
HOLD DOWN LOCATIONS ARE SHOWN AT GENERAL
LOCATIONS, COORDINATE ACTUAL PLACEMENT AND
LOCATIONS WITH STUD FRAMING LAYOUT AND HOLD DOWN
ATTACHMENT REQUIREMENTS

ORIGINAL SHEET - ANSI D

1 LATERAL PLAN
S1-120M 1/8" = 1'-0"



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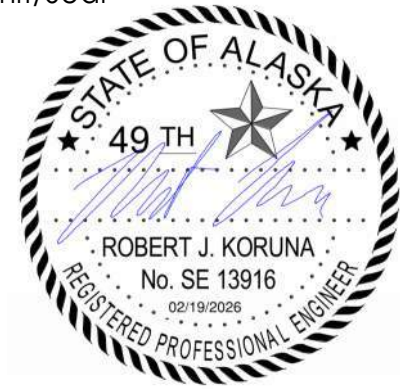
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Consultant

[illegible]

Permit/Seal



Alaska Court System

Palmer Courthouse
Renovation &
Expansion

Project No.:2014331970

Title

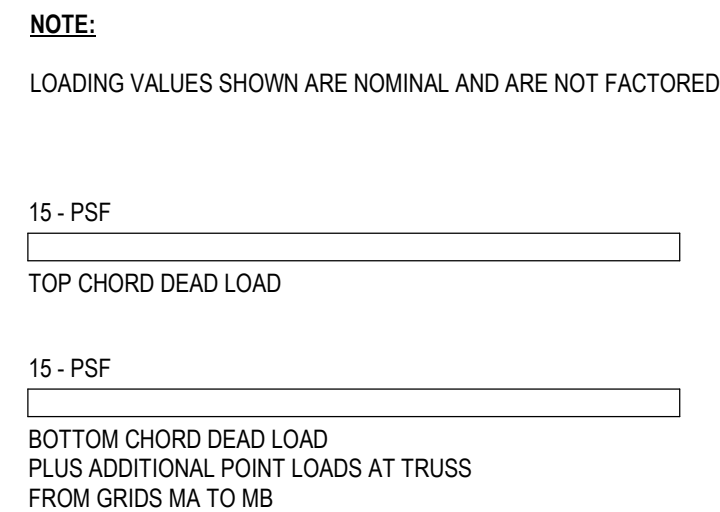
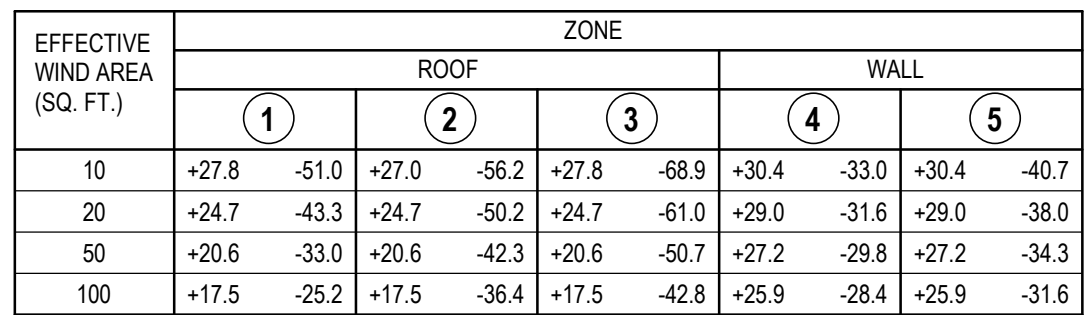
LATERAL PLAN

Scale: As indicated

Revision:3

NUMBER:

S1-120M

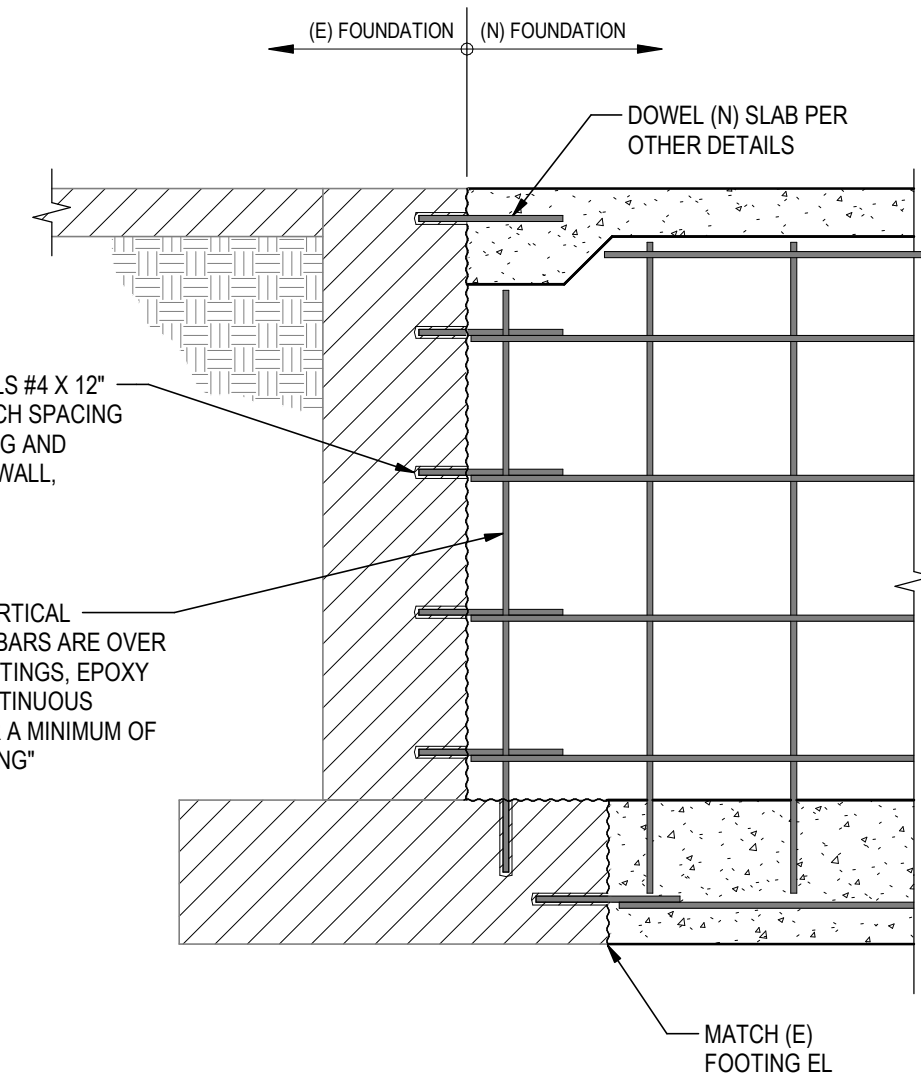

$$1/8'' = 1'-0''$$


- $$\frac{1}{8}'' = 1'-0''$$

NTS

1. DIMENSIONS IN INCHES.
2. CONCRETE IS NORMAL WEIGHT CONCRETE.
3. BAR YIELD STRENGTH, $f_y = 60,000$ PSI
4. REFER TO PLANS FOR BAR LENGTH OR EXTENSION PAST 180° OR 90° HOOK
5. REFER TO STANDARD HOOKS DETAILS FOR STANDARD BAR BEND DETAILS.
6. d =REBAR DIAMETER.





8" THICK CONCRETE PAD,
REINFORCED WITH #5 AT 12" O.C.
EACH WAY AT MID-SLAB AND
ALONG EDGES

MIN 3-FT NFS
COMPACTED FILL
UNDER PAD, TYP.

The diagram shows a cross-section of a concrete pad. The pad is 8 inches thick and contains reinforcement bars (#5) spaced at 12 inches on center in both directions. The pad is supported by a minimum 3-foot thick layer of compacted fill. The fill is shown with a hatched pattern. The pad is shown with a solid pattern. Arrows point from the text labels to the corresponding parts of the diagram.

NOTES:
1. ALL PIPES TO CLEAR SLEEVES BY 1/2"Ø CAULK AS REQ'D.
2. SIM FOR VERT SLEEVED HOLES IN FTGS.

Diagram illustrating the assembly of a sleeve and footing. The diagram shows a cross-section of the ground with a footing (shaded area) and a sleeve (unshaded area) installed. The footing is labeled "FOOTING" and the sleeve is labeled "SLEEVE". The ground surface is labeled "GRADE". An adjacent parallel pipe is shown to the right, labeled "ADJ PARALLEL PIPE". A note indicates: "NO DIGGING FOR PIPE TRENCH PARALLEL TO FTG BELOW THESE LINES". The footing is shown with a width of 12 inches and a height of 12 inches.

NOTE:
ALL PIPES TO CLEAR SLEEVES BY 1/2"Ø ALL AROUND. CAULK AS REQ'D NEVER TO BE MORE THAN 2'-6" BELOW BOTTOM OF FOOTING, STEP FOOTING IF REQ'D

The image contains two technical drawings of a trench box. The left drawing is a 'SIDE VIEW' showing a cross-section of the trench box. It features a trapezoidal shape with a circular opening in the center. Dimensions include a maximum height of 3'-0" on the left, a minimum width of 2'-0" at the base, a minimum height of 9" for the base, and a minimum height of 6" for the side walls. The right drawing is a 'SECTION' view showing a cross-section of the trench box with a vertical pipe. Labels include 'FDN WALL' (Foundation Wall), 'FTG' (Foundation Tie), 'SLEEVE', 'CONC FILL' (Concrete Fill), and 'NO PIPES TO BE PLACED IN THIS HEIGHT' with a vertical dimension line indicating a specific height range.



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Issued/Revision		By	Appd	Date
1	50% DESIGN DEVELOPMENT			2025.09.10
2	100% CONSTRUCTION DRAWINGS			2026.01.15
3	100% CONSTRUCTION DOCUMENTS			2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

Title

CONCRETE / SLAB DETAIL SHEETS

Revision: 3

NUMBER:

S5-503M

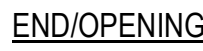


3 **TYP INTERRUPTED TOP/BOTT PLATE SPLICE** §5-511M 1" = 1'-0"

S5-511M 1" = 1'-0"

S5-511M 1 1/2" = 1'-0"

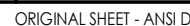
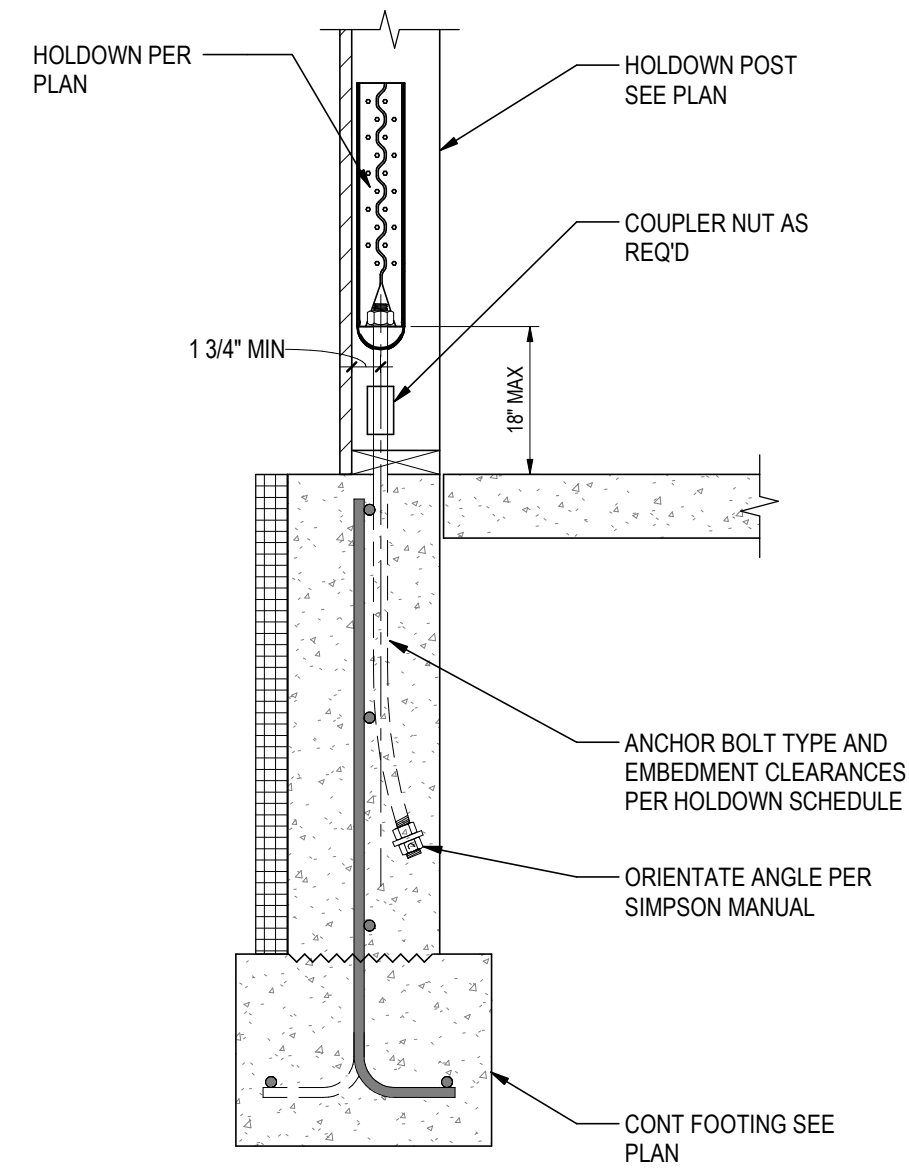
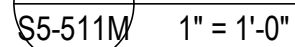
S5-511M 1" = 1'-0'



4	INTER
S5-511M	1 1/2" = 1'-0"

NOTES:

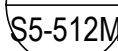
- [1] SIMPSON HDU HOLDDOWNS: ICC ESR-2330.
- [2] MINIMUM POST SIZES ARE SHOWN, UON ON PLANS.
- [3] HOLDOWN ANCHORS BOLTS SHALL BE SECURED IN PLACE. PRIOR TO FOUNDATION INSPECTION / OBSERVATION
- [4] SIMPSON SSTB / SB ANCHOR BOLTS: ICC ESR-2611.
- [5] SEE MANUFACTURER LITERATURE FOR MINIMUM EMBEDMENT NOTATION AND RELATED REQUIREMENTS.
- [6] THREADED ROD SHALL BE PROVIDED PER SCHEDULE WHERE SPECIFIC IN DETAILS.

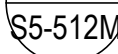




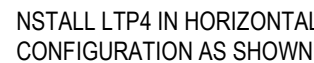
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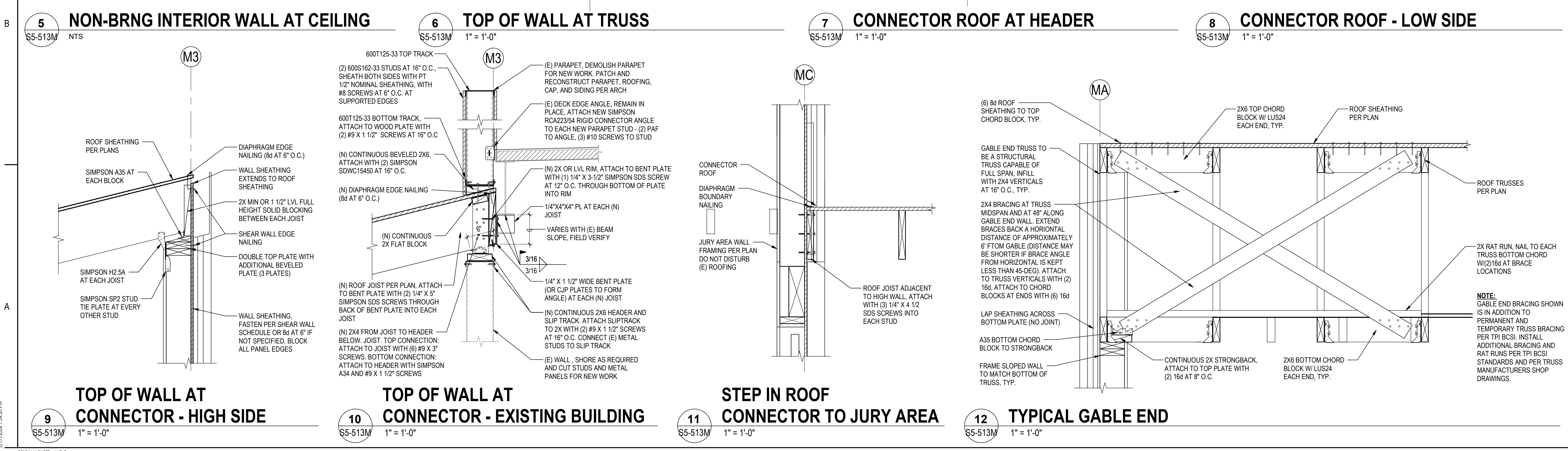
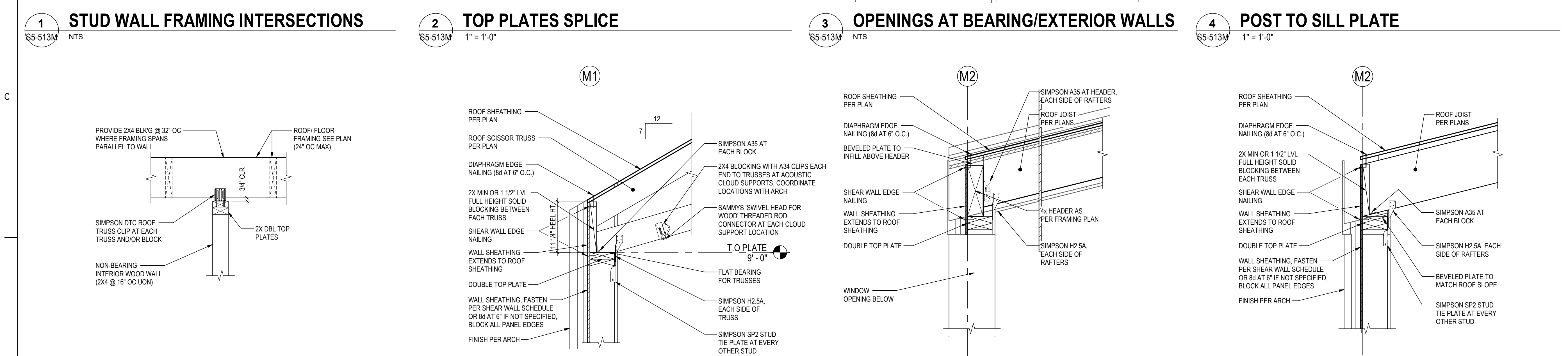
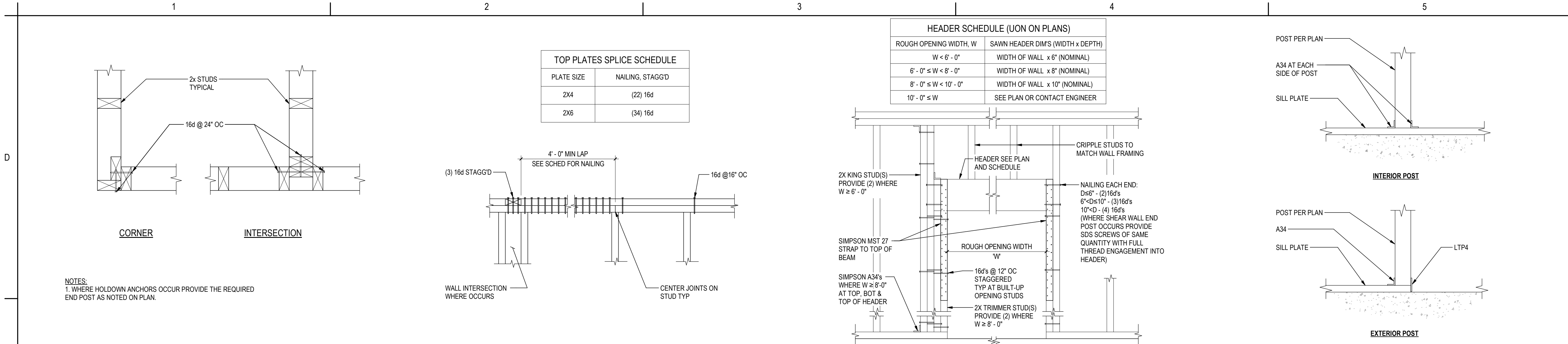
S5-512M

$$1/2'' = 1'-0''$$


$$1'' = 1'-0''$$

$$1'' = 1'-0''$$

5

$$3'' = 1'-0''$$




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NO.	DATE	DESCRIPTION	BY	APP'D
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Permit/Seal

Issued/Revision

Alaska Court System

Palmer Courthouse
Renovation & Expansion

Project No.: 2014331970

Title

FRAMING DETAILS - 3

Scale: As indicated

Revision: 3

NUMBER: S5-513M

A

B

C

D

ABBREVIATIONS

A/C	AIR CONDITIONING UNIT
AAV	AUTOMATIC AIR VENT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ABOVE FINISH ROOF
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CW	COMPLETE WITH
CAV	CONSTANT AIR VOLUME
CBV	CIRCUIT BALANCING VALVE
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
dB	DECIBEL(S)
dBa	A-WEIGHTED DECIBELS
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA./Ø	DIAMETER
DIFF	DIFFERENTIAL
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EA (D)	EXHAUST AIR, DISHWASH
EA (G)	EXHAUST AIR, GENERAL
EA (K)	EXHAUST AIR, KITCHEN
EA (LAB)	EXHAUST AIR, LABORATORY
EA (LD)	EXHAUST AIR, LAUNDRY/DRYER
EA (W)	EXHAUST AIR, WASHROOM
EAT	ENTERING AIR TEMPERATURE
EAV	EXHAUST AIR VALVE
ECM	ELECTRONICALLY COMMUNICATED MOTOR
ED	EXISTING TO BE DEMOLISHED (DEMOLITION PLANS)
EER	ENERGY EFFICIENCY RATIO
EG	ETHYLENE GLYCOL
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ER	EXISTING RELOCATED (NEW CONSTRUCTION PLANS)
ERL	EXISTING TO BE RELOCATED (DEMOLITION PLANS)
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXIST / E	EXISTING (DEMOLITION PLANS)
FC	FAIL CLOSED
FLA	FULL LOAD AMPERAGE
FO	FAIL OPEN
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT/FEET
GA	GAUGE
GAL	GALLON (US)
GC	GENERAL CONTRACTOR
GEO	GEODETIC
GPM	GALLONS PER MINUTE
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HP	HORSEPOWER
HR	HOUR
HVAC	HEATING / VENTILATING / AIR CONDITIONING
HZ	HERTZ
IE	INVERT ELEVATION
IEER	INTEGRATED ENERGY EFFECIENCY RATIO
IN	INCHES
IN WG	INCHES WATER GAUGE
IPLV	INTEGRATED PART LOAD VALUE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
M	METER
MAX	MAXIMUM
MBH	THOUSAND OF BTUH
MCA	MINIMUM CIRCUIT AMPS
MERV	MINIMUM EFFECIENCY REPORTING VALUES
MFR	MANUFACTURER
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
MWT	MEAN WATER TEMPERATURE
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED / OWNER INSTALLED

REAL OBJECT SYMBOL

	2 1/2"	PIPE SIZE
	BBD	BOILER BLOWDOWN
	BFW	BOILER FEED WATER
	BR	BRINE RETURN
	BS	BRINE SUPPLY
	HWR(G)	HEATING WATER RETURN - GLYCOL
	HWS	HEATING WATER SUPPLY
	HWS(G)	HEATING WATER SUPPLY - GLYCOL
	G	NATURAL GAS
	GV	NATURAL GAS VENT
	REF(HG)	REFRIGERANT HOT GAS
	REF(L)	REFRIGERANT LIQUID
	REF(S)	REFRIGERANT SUCTION
	REF(V)	REFRIGERANT VENT
	RV	RELIEF VENT
		PIPE INSULATION

PIPING COMPONENTS

	ISOLATION VALVE (GENERIC)
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE NPS 6 AND LESS
	BUTTERFLY VALVE NPS 8 AND MORE
	BALL VALVE
	PLUG VALVE
	NEEDLE VALVE
	CHECK VALVE (GENERIC)
	BALANCING VALVE
	FLOW LIMITING VALVE
	PRESSURE REDUCING VALVE
	2-WAY CONTROL VALVE (GENERIC)
	TWO-WAY ELECTRIC CONTROL VALVE, BUTTERFLY TYPE
	THREE-WAY ELECTRIC CONTROL VALVE, BUTTERFLY TYPE
	SOLENOID 2-WAY CONTROL VALVE
	SOLENOID 3-WAY CONTROL VALVE
	FLOAT OPERATED VALVE ACTUATOR
	SAFETY OR RELIEF VALVE
	ANGLE VALVE
	BOILER STOP AND CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	MULTI-PURPOSE VALVE (SHUT-OFF, BALANCING AND CHECK)
	REDUCE PRESSURE BACKFLOW PREVENTER
	SUCTION DIFFUSER
	PUMP (GENERIC)
	Y-STRAINER (GENERIC)
	STEAM TRAP (GENERIC)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	VACUUM BREAKER
	SHOCK ABSORBER
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	TEMPERATURE AND PRESSURE TRAP
	SIGHT FLOW GLASS
	FLEXIBLE CONNECTOR
	EXPANSION JOINT
	GUIDE
	ANCHOR
	FLOW ARROW
	PIPING SLOPE
	PIPE CAP
	PIPE BREAK
	PIPE CROSS
	PIPING ELBOW UP
	PIPING ELBOW DOWN
	PIPING TEE UP
	PIPING TEE DOWN
	UNION CONNECTION
	FLANGED CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	STANDARD CLEAN-OUT IN LINE END OF RUN
	STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
	STANDARD CLEAN-OUT THROUGH FLOOR IN LINE
	DIFFERENTIAL PRESSURE CONTROL VALVE
	Y-PATTERN MANUAL BALANCING/SHUT-OFF VALVE
	PRESSURE INDEPENDENT CONTROL VALVE

PIPING SYSTEMS (HVAC)

	2 1/2"	PIPE SIZE
	BBD	BOILER BLOWDOWN
	BFW	BOILER FEED WATER
	BR	BRINE RETURN
	BS	BRINE SUPPLY
	HWR(G)	HEATING WATER RETURN - GLYCOL
	HWS	HEATING WATER SUPPLY
	HWS(G)	HEATING WATER SUPPLY - GLYCOL
	G	NATURAL GAS
	GV	NATURAL GAS VENT
	REF(HG)	REFRIGERANT HOT GAS
	REF(L)	REFRIGERANT LIQUID
	REF(S)	REFRIGERANT SUCTION
	REF(V)	REFRIGERANT VENT
	RV	RELIEF VENT
		PIPE INSULATION

(HVAC)

NOTE: ALL DUCT SIZES ARE INTERIOR, FREE DIMENSIONS
ALWAYS WIDTH (HORIZONTAL DIM.) x HEIGHT (VERTICAL DIM.)

	AIR FLOW ARROW
	RECTANGULAR DUCT AND SIZE*
	ROUND DUCT AND SIZE*
	FLAT OVAL DUCT AND SIZE*
	EXTERIOR DUCT TREATMENT*
	RECTANGULAR DUCT WITH ACOUSTIC LINING*
	DUCT SECTION, SUPPLY AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, RETURN AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, EXHAUST AIR. APPLIES TO RECT., ROUND AND OVAL
	FLEXIBLE DUCT
	ELBOW TURN, SUPPLY DOWN. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
	CHANGE IN DUCT ELEVATION RISING IN DIRECTION INDICATED
	CHANGE IN DUCT ELEVATION DROPPING IN DIRECTION INDICATED
	END CAP
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT)
	ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)
	MITERED ELBOW, RECTANGULAR, WITHOUT VANES
	MITERED ELBOW, RECTANGULAR, WITH TURNING VANES
	RECTANGULAR TO ROUND TRANSITION
	DUCT ACCESS DOOR (TOP, SIDE, BOTTOM)
	FLEXIBLE CONNECTION
	BACKDRAFT DAMPER
	CABLE OPERATED DAMPER
	MANUAL DAMPER
	MOTORIZED DAMPER
	PRESSURE INDEPENDENT REGULATOR
	FIRE DAMPER
	SMOKE DAMPER
	SMOKE AND FIRE DAMPER
	DUCT SILENCER/TRANSFER ELBOW
	CONTROL DEVICE (REFER TO CONTROLS LEGEND)
	AIR FLOW MEASURING STATION (REFER TO CONTROLS LEGEND)
	AIR OUTLET OR INLET TAG (REFER TO SCHEDULE)
	RECTANGULAR DIFFUSER, SUPPLY. OPTIONAL ARROWS SHOW THE FLOW DIRECTION.
	RECTANGULAR REGISTER OR GRILLE, RETURN
	RECTANGULAR REGISTER OR GRILLE, EXHAUST
	ROUND DIFFUSER, SUPPLY
	LINEAR DIFFUSER
	SIDEWALL REGISTER OR GRILLE, SUPPLY
	SIDEWALL GRILLE, RETURN OR EXHAUST
	UNDERCUT DOOR
	DOOR GRILLE OR LOUVER
	TRANSFER GRILLE OR LOUVER
	COIL (REFER TO CONTROLS LEGEND)
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	RECTANGULAR DIFFUSER, SUPPLY. OPTIONAL ARROWS SHOW THE FLOW DIRECTION.
	RECTANGULAR REGISTER OR GRILLE, RETURN

BOILER SCHEDULE																							
MARK	LOCATION	SERVICE	BASIS OF DESIGN		TYPE	HEATING CAPACITY		MIN. EFF.	FUAL FUEL	GAS PRESSURE		HEATING HOT WATER					ELECTRICAL				APPROX. DIMENSION (W x D x H)	WEIGHT (LBS)	NOTES
			MFR	MODEL		INPUT (MBH)	OUTPUT (MBH)			MAX. PRESSURE (INCH W.C.)	MIN. PRESSURE (INCH W.C.)	GLYCOL	GPM	EWТ (°F)	LWT (°F)	MAX. P.D. (FT W.C.)	VOLTS	PH	FLA	MOCР			
B-M-1	MODULAR MECH RM	HEATING SYSTEM	RAYPAK	H7-198AR	VERTICAL WALL MOUNTED	199	175	88%	NATURAL GAS	14"	4"	30% PG	11.7	150	180	6.2	120	1	5	10	18.6" x 19.4" x 36.2"	187	ALL
B-M-2	MODULAR MECH RM	HEATING SYSTEM	RAYPAK	H7-198AR	VERTICAL WALL MOUNTED	199	175	88%	NATURAL GAS	14"	4"	30% PG	11.7	150	180	6.2	120	1	5	10	18.6" x 19.4" x 36.2"	187	ALL
NOTES																							
1. BOILER SHALL BE LISTED WITH UL AND ASME. 2. UNIT SHALL BE WITH FM COMPLIANT GAS TRAIN. 3. UNIT SHALL HAVE TURN DOWN RATIO OF 10:1. 4. ON BOARD BOILER SEQUENCING WITH INTEGRATTED BACNET IP, BACNET MS/TP. 5. PROVIDE 10 YEARS HEAT EXCHANGER WARRANTY AND 20 YEARS WARRANTY FOR THERMAL SHOCK. 6. THE UNIT WILL BE WALL HUNG, PROVIDE SUPPORT BRACKET.																							

NOTES	
1.	BOILER SHALL BE LISTED WITH UL AND ASME.
2.	UNIT SHALL BE WITH FM COMPLIANT GAS TRAIN.
3.	UNIT SHALL HAVE TURN DOWN RATIO OF 10:1.
4.	ON BOARD BOILER SEQUENCING WITH INTEGRATED BACNET IP, BACNET MS/TP.
5.	PROVIDE 10 YEARS HEAT EXCHANGER WARRANTY AND 20 YEARS WARRANTY FOR THERMAL SHOCK.
6.	THE UNIT WILL BE WALL HUNG, PROVIDE SUPPORT BRACKET.

PUMP SCHEDULE															
MARK	LOCATION	SERVICE	BASIS OF DESIGN		PUMP TYPE	FLUID TYPE	RPM	FLOW (GPM)	HEAD (FT H2O)	ELECTRICAL			VFD	WEIGHT (LBS)	NOTES
			MFR	MODEL						VOLTS	PH	HP			
HWP-M-1/2	MODULAR MECH	PRIMARY HHW	TACO	0010	IN-LINE PUMP	30% PG	3,250	11.7	12	120	1	1/8	N	12	ALL
HWP-M-3/4	MODULAR MECH	SECONDARY HHW	TACO	0012	IN-LINE PUMP	30 % PG	3,250	4.3	15	120	1	1/8	Y	12	ALL
NOTES:															
1. PRIMARY PUMP WILL BE SPECIFIED AND PROVIDED BY BOILER MANUFACTURER.															
2. SECONDARY HOT WATER PUMP WILL WORK AS DUTY-STANDBY MODE.															

1. PRIMARY PUMP WILL BE SPECIFIED AND PROVIDED BY BOILER MANUFACTURER.
2. SECONDARY HOT WATER PUMP WILL WORK AS DUTY-STANDBY MODE.

BUFFER TANK SCHEDULE												
MARK	LOCATION	SERVICE	BASIS OF DESIGN		TANK VOLUME	MAXIMUM PRESSURE (PSIG)	PORT	SIZE	WEIGHT			NOTES
			MFR	MODEL					TANK (LBS)	WATER (LBS)	TOTAL (LBS)	
BT-M-1	MODULAR MECH	HEATING HOT WATER	TACO	HBL0125F-125N	125	125	2	24" DIA x 86" L	330	980	1310	ALL
NOTES: 1. HORIZONTAL TANK WITH TWO PORTS 2" NOZZLE SIZE LOW CONNECTION. 2. DESIGN AND CONSTRUCTION PER SME CODE SECTION VII, DIVISION 1 PRESSURE VESSEL. 3. PROVIDE 4" SILICON BLANKET INSULATION WITH ALUMINUM JACKET. 4. FLANGED INLET AND OUTLET. 5. REGISTERED WITH NATIONAL BOARD OF PRESSURE VESSEL MANUFACTURER.												

NOTES:

1. HORIZONTAL TANK WITH TWO PORTS 2" NOZZLE SIZE LOW CONNECTION.
2. DESIGN AND CONSTRUCTION PER SME CODE SECTION VII, DIVISION 1 PRESSURE VESSEL.
3. PROVIDE 4" SILICON BLANKET INSULATION WITH ALUMINUM JACKET.
4. FLANGED INLET AND OUTLET.
5. REGISTERED WITH NATIONAL BOARD OF PRESSURE VESSEL MANUFACTURER.

GLYCOL FEEDER SCHEDULE												
MARK	LOCATION	SERVICE	BASIS OF DESIGN		FLUID	TANK CAP. (GAL)	PUMP CAP. (GPM)	ELECTRICAL			WEIGHT (LBS)	NOTES
			MFR	MODEL				VOLTS	PH	POWER		
GF-M1	BOILER ROOM	HEATING HOT WATER SYSTEM	AXIOM	MF150	30% PG	4.6	1	120	1	50 W	12	ALL
NOTES:												
1. UL LISTED POWER SUPPLY ADAPTOR.												
2. PUMP SHALL BE CAPABLE OF RUNNING DRY WITHOUT DAMAGE.												
3. UNIT SHALL BE A COMPLETED ASSEMBLY WITH TANK MOUNTING SHELF AND CONTROL PANEL....												

NOTES:

1. UL LISTED POWER SUPPLY ADAPTOR.
2. PUMP SHALL BE CAPABLE OF RUNNING DRY WITHOUT DAMAGE.
3. UNIT SHALL BE A COMPLETED ASSEMBLY WITH TANK MOUNTING SHELF AND CONTROL PANEL.....

EXPANSION TANK SCHEDULE											
MARK	LOCATION	SERVICE	BASIS OF DESIGN		CAPACITY		FILL PRESSURE (PSIG)	MAXIMUM PRESSURE (PSIG)	SIZE	WEIGHT (LBS)	NOTES
			MFR	MODEL	REQUIRED VOLUME	TANK VOLUME					
ET-M1	BOILER ROOM	HEATING HOT WATER	BELL & GOSSET	B-35	8.28 GAL	10	15	75	12" DIA x 23.5"H	123	ALL
NOTES:											
1. TANK SHALL BE ASME RATED PRE-CHARGED BLADDER TYPE PRESSURE VESSELS.											
2. TANK CAN BE EITHER HORIZONTAL OR VERTICAL INSTALL.											

NOTES:

1. TANK SHALL BE ASME RATED PRE-CHARGED BLADDER TYPE PRESSURE VESSELS.
2. TANK CAN BE EITHER HORIZONTAL OR VERTICAL INSTALL.

AIR SEPARATOR SCHEDULE									
MARK	LOCATION	SERVICE	BASIS OF DESIGN		MAXIMUM GPM	INLET SIZE	MAX WPD (FT H2O)	WEIGHT (LBS)	NOTES
			MFR	MODEL					
AS-M1	BOILER ROOM	HEATING HOT WATER	BELL & GOSSET	R-2	56	2"	0.48	188	ALL
NOTES: 1. PROVIDE WITH METRAFLEX AUTO AIR VENT. VENT SHALL BE PIPED TO NEAREST FLOOR DRAIN. 2. AIR SEPARATOR WITH STAINLESS STEEL STRAINER.									

NOTES:

1. PROVIDE WITH METRAFLEX AUTO AIR VENT. VENT SHALL BE PIPED TO NEAREST FLOOR DRAIN.
2. AIR SEPARATOR WITH STAINLESS STEEL STRAINER.

FAN SCHEDULE													
EQUIPMENT No.	LOCATION	SERVICE	BASIS OF DESIGN		CAPACITY (SCFM)	STATIC PRESSURE (IN W.C.)	MAX. FAN SPEED (RPM)	ELECTRICAL			TYPE	WEIGHT (LBS)	NOTES
			MFG	MODEL				VOLTS	PH	HP			
EF-M-1	ROOF	MEN BATHROOM	GREENHECK	G-100-VG	640	0.8	1,449	115	1	0.25	CENTRIFUGAL	41	1,2,4
NOTES:													
1. EXHAUST FAN TO BE CONTROLLED BY OCCUPANT SENSOR OR LIGHT SWITCH. ANY ONE ROOM OCCUPIED, THE FAN WILL START.													
2. FAN TO BE UL LISTED FOR TUB/SHOWER VENTILATION													

NOTES:

1. EXHAUST FAN TO BE CONTROLLED BY OCCUPANT SENSOR OR LIGHT SWITCH. ANY ONE ROOM OCCUPIED, THE FAN WILL START.

2. FAN TO BE UL LISTED FOR TUB/SHOWER VENTILATION



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Consultant

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER AK 99645

Project No.:2014331970

Title

MECHANICAL SCHEDULE - MODULAR

Scale:

Revision: 3

NUMBER

M0-002

DX COOLING HYDRONIC HEATING AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	SERVICE	BASIS OF DESIGN		SUPPLY FAN									OUTDOOR CONDENSER	COOLING									
			MFR	MODEL	TOTAL CFM	EXT. SP (IN W)	# OF FAN	MIN. OSA (CFM)	BHP	HP	RPM	ECM	SMOKE DETECTOR		COMPRESSOR		REFRIGERANT		TOTAL CAP (MBH)	SEN. CAP (MBH)	ENT. AIR		LEV. AIR	
															TYPE	QTY	TYPE	CHARGE			DB	WB	DB	WB
AHU-M-1	PER PLAN	MODULAR	TRANE	BCHE054	1600	1.2	1	330	0.96	1.0	1609	Y	N	CU-1	SCROLL	2	R454B	75 IBS	43.5	38.6	76	62	53.97	52.49

DX COOLING HYDRONIC HEATING AIR HANDLING UNIT SCHEDULE (CONTINUE)

MARK	LOCATION	SERVICE	HEATING						ELECTRICAL					FILTER		APPROX. DIMENSION (L x W x H)	WEIGHT (LBS)	NOTES
			CAP (MBH)	EWT (°F)	LWT (°F)	FLOW (GPM)	FLUID TYPE	WPD (FT H2O)	VOLTS	PH	MCA	MOCAP	SCC	MERV	PRESSURE DROP (IN)			
AHU-M-1	PER PLAN	MODULAR	52.0	180	150	4.28	30% PG	0.93	208	1	9.66	15	5kA	13	0.5	60" x 46" x 18"	315	ALL

NOTES:

1. UNIT TO HAVE INTEGRATED R454B LEAK DETECTION SENSOR AND WILL RAISE AN ALARM UPON DETECTION OF REFRIGERANT LEAK.
2. INDOOR AIR HANDLING UNIT WILL BE WRAPPED TO PROTECT UNIT FROM INTRANSIT RAIN AND DEBRIS. UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTION.
3. UNIT SHALL BE UL AND C-UL LISTED AND SHALL BE RATED WITH AHRI STANDARD 430/431.
4. MANUFACTURER TO PROVIDE VFD AND SHALL BE CERTIFIED TO AHRI STANDARD 1210 TO ENSURE DOCUMENTED AND RELIABLE VFD EFFICIENCY.
5. ALL UNIT PANELS SHALL BE 2" SOLID, DOUBLE-WALL MINIMUM R13 CONSTRUCTION TO FACILITATE CLEANING OF UNIT INTERIOR. UNIT PANELS SHALL BE PROVIDED WITH A MID-SPAN, NO- THROUGH-METAL, INTERNAL THERMAL BREAK. CASE CONSTRUCTION SHALL COMPLY WITH NFPA 90A AND CONDENSATION SHALL NOT FORM ON THE CASING EXTERIOR.
6. DRAIN PAN SHALL BE DESIGNED IN ACCORDANCE WITH ASHRAE 62.1 AND SHALL BE SLOPED IN TWO PLANES PROMOTING POSITIVE DRAINAGE TO ELIMINATE STAGNANT WATER CONDITIONS. DRAIN PAN SHALL BE INSULATED, AND OF DOUBLE WALL CONSTRUCTION. THE OUTLET SHALL BE THE LOWEST POINT ON THE PAN, AND SHALL BE OF SUFFICIENT DIAMETER TO PRECLUDE DRAIN PAN OVERFLOW UNDER NORMALLY EXPECTED OPERATING CONDITIONS. ALL DRAIN PANS CONNECTIONS SHALL HAVE A THREADED CONNECTION, EXTENDING MIN. 2-1/2" BEYOND THE UNIT BASE, AND SHALL BE SUFFICIENT SIZE TO COLLECT ALL CONDENSATE PRODUCED FROM THE COIL.
7. ACCESS DOORS SHALL BE THE SAME R-VALUE AS THE MAIN UNIT CASING. ALL DOORS SHALL BE PROVIDED WITH A THERMAL BREAK CONSTRUCTION OF DOOR PANEL AND DOOR FRAME. GASKET SHALL BE PROVIDED AROUND THE FULL PERIMETER OF THE DOORS TO PREVENT AIR LEAKAGE.
8. A MIXING SECTION SHALL BE PROVIDED TO SUPPORT THE DAMPER ASSEMBLY FOR OUTDOOR, RETURN AND /OR EXHAUST AIR.
9. MANUFACTURER TO CONFIRM FINAL REFRIGERANT CHARGE BASED ON OUTDOOR UNIT LOCATION AND ACTUAL PIPE LENGTH.

FAN COIL UNIT SCHEDULE

MARK	SERVICE	BASIS OF DESIGN		TONS	CAPABILITY (MBH)	FAN DATA	REFRIGERANT			DRAIN PIPE (IN)	POWER					FILTER		E-POWER	WEIGHT (LBS)	NOTE	
		AIRFLOW (CFM)	TYPE			PIPE SIZE		VOLT	PH		HZ	MCA	MOCp	MERV	PRESSURE						
						LIQUID (IN)	GAS (IN)								INITIAL	FINAL					
FCU-M-1	ELECTRIC ROOM	DAIKIN	FTX24BXVJU	2	21.2	500	R32	1/4	3/8	3/4	208	1	60	1.9	15	8	0.1	0.3	N	77	ALL

NOTES:

1. CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONDUIT BETWEEN FAN COIL UNITS AND CONDENSER UNIT.
2. FAN COIL UNIT SHALL HAVE GALVANIZED STEEL DRAIN PAN WITH MOISTURE DETECTOR. UNIT SHALL SHUT DOWN UPON DETECTION OF WATER IN DRAIN PAN.
3. PROVIDE MERV 8 FILTER, BACNET CONTROLLER, AND ALL NECESSARY AUXILIARY DEVICES FOR THE SPLIT SYSTEM TO WORK PROPERLY.
4. ALL DISCONNECT FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26.
5. FAN COIL UNIT PERFORMANCE SHALL BE AHR1 RATED WITH EFFICIENCY NO LESS THAN IECC REQUIREMENTS.
6. PROVIDE CONDENSATE PUMP. COORDINATE CONDENSATE DRAIN PIPE ROUTINE IN FIELD AND CONDENSATE DRAIN TO THE SAME PLUMBING RECEPTACLE AS EXISTING FAN COIL UNIT SERVING THE LOBBY.

OUTDOOR CONDENSER UNIT SCHEDULE

MARK	LOCATION	SERVICE	BASIS OF DESIGN		NOMINAL TONS	LINKED INDOOR UNITS	COMPRESSOR TYPE		COOLING			REFRIGERANT				ELECTRICAL				APPROX. DIMENSION (H x W x D)	WEIGHT (LBS)	NOTES
			MFR	MODEL			TYPE	QUANTITY	AMBIENT TEMP (°F)	CAP (MBH)	EER/SEER	TYPE	CHARGE (LBS)	GAS PIPE (INCH)	LIQUID PIPE (INCH)	VOLTS	PH	MCA	MOCP			
CU-M-1	PER PLAN	MODULAR	TRANE	5TTR4042A	3.5	AHU-1	SCROLL	1	85	42.0	11.2/14.2	R-454B	5	7/8	5/16	208	1	23	40	42.5" x 35" x 38"	246	ALL
CU-M-2	PER PLAN	ELECTRIC ROOM	DAIKIN	RX24BXVJU	2.0	FCU-1	SCROLL	1	85	22.2	11/17	R-32	7.5	1/4	3/8	208	1	19.8	20	34-1/4" x 43-5/16" x 18-1/8"	57	ALL

NOTES:

1. CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONDUIT INTERCONNECTING INDOOR AIR HANDLIN UNITS AND FAN COIL UNITS.
2. CONDENSER UNITS SHALL BE ON 6" TALL HOUSEKEEPING PAD. UNIT SUPPORT AND ANCHORAGE SHALL BE APPROVED BY A STRUCTURAL ENGINEER REGISTERED IN STATE OF ALASKA.
3. PROVIDE SUCTION AND LIQUID REFRIGERANT LINES BETWEEN INDOOR AIR HANDLING UNITS / FAN COIL UNIT UNITS AND RESPECTIVE CONDENSER UNITS.
4. PROVIDE REFRIGERANT PIPING INSULATION PER ALASKA MECHANICAL AND BUILDING CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDATION.
5. PROVIDE LOCKING DISCONNECT SWITCH.
6. ADD FIELD REFRIGERANT CHARGE IN ADDITION TO FACTORY CHARGE BASED UPON FIELD AS-BUILT PIPING LAYOUT. ADDITIONAL CHARGE BASED ON MANUFACTURER'S RECOMMENDATION.
7. PROVIDE AMBIENT TEMPERATURE KIT WITH THE UNIT TO ENSURE SYSTEM WILL WORK AT LOW AMBIENT TEMPERATURE IN SUMMER AND WILL BE PROTECTED AT LOW TEMPERATURE IN WINTER.
8. UNIT SHALL COME WITH ANTI-SORT CYCLE TIMER, EVAPORATOR DEFROST CVENTROL, RUBBER ISOLATOR KIT, EXTREME CONDITION MOUNT KIT, START KIT, CRANKCASE HEATER, SEACOAST KIT, LOW AMBIENT KIT, AND SERVICE VALVE PANEL COVER



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Consultant

3	100% CONSTRUCTION	2024.02.12
2	100% CONSTRUCTION	2024.01.15
1	50% DESIGN DEVELOPMENT	2025.09.10
Issued/Revision		YTY.MM.DD
By		Aspd

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER AK 99645

Project No.:2014331970

Title

MECHANICAL SCHEDULE - MODULAR

Scale:

Revision:3

NUMBER:

MO-003

DX COOLING HYDRONIC HEATING AIR HANDLING UNIT SCHEDULE - CONNECTOR

MARK	LOCATION	SERVICE	BASIS OF DESIGN		SUPPLY FAN									OUTDOOR CONDENSER	COOLING									
															COMPRESSOR		REFRIGERANT		TOTAL CAP (MBH)	SEN. CAP (MBH)	ENT. AIR		LEV. AIR	
			MFR	MODEL	TOTAL CFM	EXT. SP (IN W)	# OF FAN	MIN. OSA (CFM)	BHP	HP	RPM	ECM	SMOKE DETECTOR		TYPE	QTY	TYPE	CHARGE			DB	WB	DB	WB
AHU-C-1	PER PLAN	BASEMENT	TRANE	BCHE036	800	1.2	1	250	0.40	0.6	1510	Y	N	CU-1	SCROLL	2	R454B	75 IBS	23.9	20.6	76	62	52.90	51.46

DX COOLING HYDRONIC HEATING AIR HANDLING UNIT SCHEDULE (CONTINUE) - CONNECTOR

MARK	LOCATION	SERVICE	HEATING						ELECTRICAL					FILTER		APPROX. DIMENSION (L x W x H)	WEIGHT (LBS)	NOTES
			CAP (MBH)	EWT (°F)	LWT (°F)	FLOW (GPM)	FLUID TYPE	WPD (FT H2O)	VOLTS	PH	MCA	MOCp	SCC	MERV	PRESSURE DROP (IN)			
AHU-C-1	PER PLAN	BASEMENT	46.8	180	160	5.40	30% PG	9.62	208	1	5.72	15	5kA	13	0.5	56.7" x 42" x 17"	258	ALL

NOTES:

1. UNIT TO HAVE INTEGRATED R454B LEAK DETECTION SENSOR AND WILL RAISE AN ALARM UPON DETECTION OF REFRIGERANT LEAK.
2. INDOOR AIR HANDLING UNIT WILL BE WRAPPED TO PROTECT UNIT FROM INTRANSIT RAIN AND DEBRIS. UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTION.
3. UNIT SHALL BE UL AND C-UL LISTED AND SHALL BE RATED WITH AHRI STANDARD 430/431.
4. MANUFACTURER TO PROVIDE VFD AND SHALL BE CERTIFIED TO AHRI STANDARD 1210 TO ENSURE DOCUMENTED AND RELIABLE VFD EFFICIENCY.
5. ALL UNIT PANELS SHALL BE 2" SOLID, DOUBLE-WALL MINIMUM R13 CONSTRUCTION TO FACILITATE CLEANING OF UNIT INTERIOR. UNIT PANELS SHALL BE PROVIDED WITH A MID-SPAN, NO- THROUGH-METAL, INTERNAL THERMAL BREAK. CASE CONSTRUCTION SHALL COMPLY WITH NFPA 90A AND CONDENSATION SHALL NOT FORM ON THE CASING EXTERIOR.
6. DRAIN PAN SHALL BE DESIGNED IN ACCORDANCE WITH ASHRAE 62.1 AND SHALL BE SLOPED IN TWO PLANES PROMOTING POSITIVE DRAINAGE TO ELIMINATE STAGNANT WATER CONDITIONS. DRAIN PAN SHALL BE INSULATED, AND OF DOUBLE WALL CONSTRUCTION. THE OUTLET SHALL BE THE LOWEST POINT ON THE PAN, AND SHALL BE OF SUFFICIENT DIAMETER TO PRECLUDE DRAIN PAN OVERFLOW UNDER NORMALLY EXPECTED OPERATING CONDITIONS. ALL DRAIN PANS CONNECTIONS SHALL HAVE A THREADED CONNECTION, EXTENDING MIN. 2-1/2" BEYOND THE UNIT BASE, AND SHALL BE SUFFICIENT SIZE TO COLLECT ALL CONDENSATE PRODUCED FROM THE COIL.
7. ACCESS DOORS SHALL BE THE SAME R-VALUE AS THE MAIN UNIT CASING. ALL DOORS SHALL BE PROVIDED WITH A THERMAL BREAK CONSTRUCTION OF DOOR PANEL AND DOOR FRAME. GASKET SHALL BE PROVIDED AROUND THE FULL PERIMETER OF THE DOORS TO PREVENT AIR LEAKAGE.
8. A MIXING SECTION SHALL BE PROVIDED TO SUPPORT THE DAMPER ASSEMBLY FOR OUTDOOR, RETURN AND /OR EXHAUST AIR.
9. MANUFACTURER TO CONFIRM FINAL REFRIGERANT CHARGE BASED ON OUTDOOR UNIT LOCATION AND ACTUAL PIPE LENGTH.

OUTDOOR CONDENSER UNIT SCHEDULE - CONNECTOR

MARK	LOCATION	SERVICE	BASIS OF DESIGN		NOMINAL TONS	LINKED INDOOR UNITS	COMPRESSOR TYPE		COOLING			REFRIGERANT				ELECTRICAL				APPROX. DIMENSION (H x W x D)	WEIGHT (LBS)	NOTES
			MFR	MODEL			TYPE	QUANTITY	AMBIENT TEMP (°F)	CAP (MBH)	EER/SEER	TYPE	CHARGE (LBS)	GAS PIPE (INCH)	LIQUID PIPE (INCH)	VOLTS	PH	MCA	MOCp			
CU-C-1	PER PLAN	MODULAR	TRANE	5TTR4024A	2.0	AHU-B-1	SCROLL	1	85	24.0	11.2/14.2	R-454B	3LB 10 OZ	7/8	5/16	208	1	14	25	38" x 30" x 33"	183	ALL

NOTES:

1. CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONDUIT INTERCONNECTING INDOOR AIR HANDLIN UNITS AND FAN COIL UNITS.
2. CONDENSER UNITS SHALL BE ON 6" TALL HOUSEKEEPING PAD. UNIT SUPPORT AND ANCHORAGE SHALL BE APPROVED BY A STRUCTURAL ENGINEER REGISTERED IN STATE OF ALASKA.
3. PROVIDE SUCTION AND LIQUID REFRIGERANT LINES BETWEEN INDOOR AIR HANDLING UNITS / FAN COIL UNIT UNITS AND RESPECTIVE CONDENSER UNITS.
4. PROVIDE REFRIGERANT PIPING INSULATION PER ALASKA MECHANICAL AND BUILDING CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDATION.
5. PROVIDE LOCKING DISCONNECT SWITCH.
6. ADD FIELD REFRIGERANT CHARGE IN ADDITION TO FACTORY CHARGE BASED UPON FIELD AS-BUILT PIPING LAYOUT. ADDITIONAL CHARGE BASED ON MANUFACTURER'S RECOMMENDATION.
7. PROVIDE AMBIENT TEMPERATURE KIT WITH THE UNIT TO ENSURE SYSTEM WILL WORK AT LOW AMBIENT TEMPERATURE IN SUMMER AND WILL BE PROTECTED AT LOW TEMPERATURE IN WINTER.
8. UNIT SHALL COME WITH ANTI-SORT CYCLE TIMER, EVAPORATOR DEFROST C/VNTRLO, RUBBER ISOLATOR KIT, EXTREME CONDITION MOUNT KIT, START KIT, CRANKCASE HEATER, SEACOAST KIT, LOW AMBIENT KIT, AND SERVICE VALVE PANEL COVER



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Issued/Revision	By	Appd	2025.09.10	2024.02.19
1 50% DESIGN DEVELOPMENT				
2 100% CONSTRUCTION DRAWINGS				
3 100% CONSTRUCTION DOCUMENTS				

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

MECHANICAL
SCHEDULE -
CONNECTOR

Scale:

Revision:3

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M0-005

VAV TERMINAL UNIT SCHEDULE - CONNECTOR

MARK	SERVICE	AIRFLOW (CFM)		INLET SIZE	TYPE	SYSTEM SERVE	REHEATING COIL					ELECTRICAL		OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES
		MAX	MIN				FLUID TYPE	CAPACITY (MBH)	EWT (°F)	LWT(°F)	FLOW (GPM)	VOLTS	PHASE				
(E)VAV-530	VESTIBULE 102	250	190	5	SINGLE DUCT	(E)AHU-5	-	19.5	180	155	1.4	120	1	41	-	ALL	
(E)VAV-536	STORAGE / ELEC CLOSET JA-108	500	100	6	SINGLE DUCT	(E)AHU-5	-	17.5	180	155	1.3	120	1	41	-	-	EXISTING TO BE REUSED
(E)VAV-537	W.C. VEST JA-111	200	40	6	SINGLE DUCT	(E)AHU-5	-	4.7	180	155	0.5	120	1	41	-	-	EXISTING TO BE RELOCATED
(E)VAV-540	MAGISTRATE OFFICES JA-109C &...	350	120	5	SINGLE DUCT	(E)AHU-5	-	13.3	180	155	1.0	120	1	41	-	-	EXISTING TO BE REUSED
(E)VAV-541	MAGISTRATE OFFICE JA-109A	175	100	5	SINGLE DUCT	(E)AHU-5	-	6.6	180	155	0.5	120	1	41	-	-	EXISTING TO BE REUSED
(E)VAV-542	MJ ASSIST. OFFICE JA-106	150	100	5	SINGLE DUCT	(E)AHU-5	-	4.4	180	155	0.5	120	1	41	-	-	EXISTING TO BE REUSED
VAV-C-1	CORRIDOR JA-E105 & CONNECTOR 8	500	120	7	SINGLE DUCT	(E)AHU-5	50% PG	3.8	160	155	0.4	120	1	41	PRICE	SDVQ	1 THRU 10
VAV-C-2	HYBRID COURTROOM JA-115B	900	360	7	SINGLE DUCT	(E)AHU-5	50% PG	4.4	160	155	0.4	120	1	41	PRICE	SDVQ	1 THRU 10
VAV-C-3	HYBRID COURTROOM JA-116A	1,000	400	10	SINGLE DUCT	(E)AHU-5	50% PG	9.9	160	155	1.0	120	1	41	PRICE	SDVQ	1 THRU 10
VAV-C-4	CORRIDOR JA-102	500	120	9	SINGLE DUCT	(E)AHU-5	50% PG	7.5	160	155	0.8	120	1	41	PRICE	SDVQ	1 THRU 10
VAV-C-5	DISTRICT COURT JA-114B	400	160	12	SINGLE DUCT	(E)AHU-5	50% PG	10.9	160	155	1.1	120	1	41	PRICE	SDVQ	1 THRU 10
VAV-C-6	JURY DELIBERATION JA-114	900	360	12	SINGLE DUCT	(E)AHU-5	50% PG	11.7	160	155	1.2	120	1	41	PRICE	SDVQ	1 THRU 10
VAV-C-7	CORRIDOR JA-107B	400	100	14	SINGLE DUCT	(E)AHU-5	50% PG	15.6	160	155	1.6	120	1	41	PRICE	SDVQ	1 THRU 10

NOTES:

1. PROVIDE EACH TERMINAL BOX WITH 1" FOIL FACE ECOSHIELD LINER.
2. THE TERMINAL BOX INLET SHALL BE A STRAIGHT DUCT SIZED SAME AS THE TERMINAL BOX SIZE FOR A MINIMUM LENGTH EQUAL TO 4-TIMES THE TERMINAL BOX INLET BEFORE TRANSITIONING TO A LARGER DUCT SIZE OR ANY CHANGE IN DIRECTION.
3. PROVIDE A MULTIPOINT CENTER AVERAGING REMOVABLE VELOCITY SENSOR.
4. PROVIDE A CONTROL BOX ENCLOSURE WITH A 24V CONTROL TRANSFORMER AND DISCONNECT SWITCH.
5. PROVIDE A BOTTOM ACCESS DOOR.
6. PROVIDE AN INTEGRAL 4-FT SOUND ATTENUATOR.
7. PROVIDE HANGER BRACKETS.
8. PROVIDE LEFT- OR RIGHT-HAND ARRANGEMENT AS SHOWN ON THE DRAWINGS. UPSIDE DOWN INSTALLATION WILL NOT BE ACCEPTED.
9. REFER DETAIL 1/M6-003 FOR CONTROLS OF VAV REHEATING COILS.
10. DDC CONTROLLER MUST BE SHIPPED TO THE FACTORY FOR INSTALLATION IN THE CONTROL BOX ENCLOSURE.

FINTUBE BASEBOARD SCHEDULE - CONNECTOR

MARK	SERVICE	TYPE	CAPACITY	QUAN.	HEATING FLUID				OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES
					TYPE	EWT (°F)	LWT (°F)	FLOW (GPM)				
(E)FT-1/8FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	1	30%PG	180	150	0.5	41	STERLING	JVB-AR CLASSIC C3/4-435	1
(E)FT-1/11FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	1	30%PG	180	150	1.1	41	STERLING	JVB-AR CLASSIC C3/4-435	1
(E)FT-1/14FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	3	30%PG	180	150	0.7	41	STERLING	JVB-AR CLASSIC C3/4-435	1
(E)FT-1/18FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	1	30%PG	180	150	0.9	41	STERLING	JVB-AR CLASSIC C3/4-435	1
(E)FT-2/6FT	AS SHOWN ON PLAN	BASEBOARD	1.5 MBH / LF	1	30%PG	180	150	0.6	41	STERLING	JAB-AR CLASSIC C3/4-435	2
FT-3/4FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	1	30%PG	180	150	0.5	41	STERLING	JAB-T CLASSIC C3/4-435	3
FT-3/8FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	3	30%PG	180	150	0.5	41	STERLING	JAB-T CLASSIC C3/4-435	3
FT-3/10FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	1	30%PG	180	150	0.5	41	STERLING	JAB-T CLASSIC C3/4-435	3
FT-3/12FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	1	30%PG	180	150	0.6	41	STERLING	JAB-T CLASSIC C3/4-435	3
FT-3/14FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	2	30%PG	180	150	0.7	41	STERLING	JAB-T CLASSIC C3/4-435	3
FT-3/18FT	AS SHOWN ON PLAN	BASEBOARD	0.8 MBH / LF	1	30%PG	180	150	1.0	41	STERLING	JAB-T CLASSIC C3/4-435	3

NOTES:

1. EXISTING FINNED TUBE BASEBOARD: FLAT TOP ENCLOSURE, 24" CABINET HEIGHT, 3/4" COPPER TUBING ALUMINUM FINNS, 40 FINNS PER FOOT.
2. EXISTING FINNED TUBE BASEBOARD: FLAT TOP ENCLOSURE, 24" CABINET HEIGHT, 3/4" COPPER TUBING ALUMINUM FINNS, 50 FINNS PER FOOT.
3. NEW FINNED TUBE BASEBOARD: FLAT TOP ENCLOSURE, 24" CABINET HEIGHT, 1/2" COPPER TUBING ALUMINUM FINNS, 40 FINNS PER FOOT. COLOR TO MATCH EXISTING....

DIFFUSER / GRILLE SCHEDULE

MARK	SERVICE	TYPE	MOUNTING	OVERALL DIMENSION (IN x IN)	NICK SIZE (IN)	MAX. P.D. (IN WC)	MAX. CFM	NC LEVEL (dBA)	MAKER	MODEL NUMBER	NOTES
CD-1	SUPPLY	SQUARE PLAQUE DIFFUSERS	LAY-IN T-BAR / HARD CEILING	24" x 24"	6"Ø	0.05	175	<20	TITUS	OMNI	ALL
					8"Ø	0.07	280	<20			
					10"Ø	0.09	385	<20			
					12"Ø	0.09	475	<20			
CD-2	SUPPLY	RATED LINEAR SLOT DIFFUSER	CEILING	6FT/1"-2 SLOT	8Ø	0.22	175	<20	TITUS	TBD(IFR)	ALL
SG-1	SUPPLY	LOUVER	DUCT / WALL	14" x 6"	-	0.02	250	<20	TITUS	112RS	ALL
				18" x 6"	-	0.02	360	<20	TITUS	112RS	ALL
				15" x 24"	-	0.15	1250	<20	TITUS	112RS	ALL
CR-1	RETURN	SQUARE PLAQUE GRILLE	LAY-IN T-BAR / HARD CEILING	24" x 24"	6"Ø	0.04	175	<20	TITUS	OMNI	ALL
					8"Ø	0.12	315	<20			
					10"Ø	0.08	380	<20			
					12"Ø	0.09	400	<20			
RG-1	RETURN	LOUVER	DUCT/WALL	40"x16"	-	0.08	1300	<20	TITUS	112RS	ALL
EG-1	EXHAUST	SQUARE PLAQUE GRILLE	HARD CEILING	12" x 12"	6"Ø	0.04	90	<20	TITUS	OMNI	ALL
					8"Ø	0.04	175	<20			
EG-2	EXHAUST	SQUARE PLAQUE GRILLE	HARD CEILING	24" x 24"	8"Ø	0.12	315	<20	TITUS	OMNI	ALL
					10"Ø	0.08	380	<20			

NOTES:

1. ALL DIFFUSERS, REGISTERS, AND GRILLES SHALL BE PAINTED TO MATCH COLOR OF ENVIRONMENT. PROVIDE SAMPLE FOR COLOR ACCEPTANCE.
2. NOISE LEVEL FROM INDIVIDUAL DIFFUSER, REGISTER, AND GRILLE SHALL BE NO GREATER THAN 20dBA.
3. PROVIDE DUCT TO NECK TRANSITION AS NECESSARY.
4. THIS SCHEDULE APPLIES TO ALL THE BUILDINGS AND/OR AREAS.



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1	50% DESIGN DEVELOPMENT		2025.09.10
2	DRAWINGS		2024.01.15
3	100% CONSTRUCTION DOCUMENTS		2024.02.19

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER AK 99645

Project No.:2014331970

Title

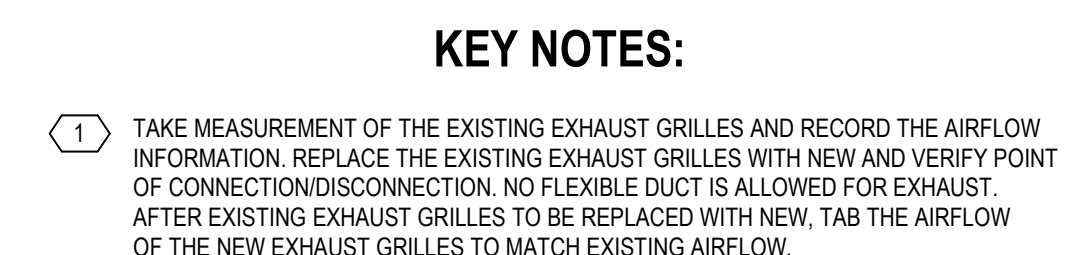
MECHANICAL
SCHEDULE -
CONNECTOR

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Revision: 3

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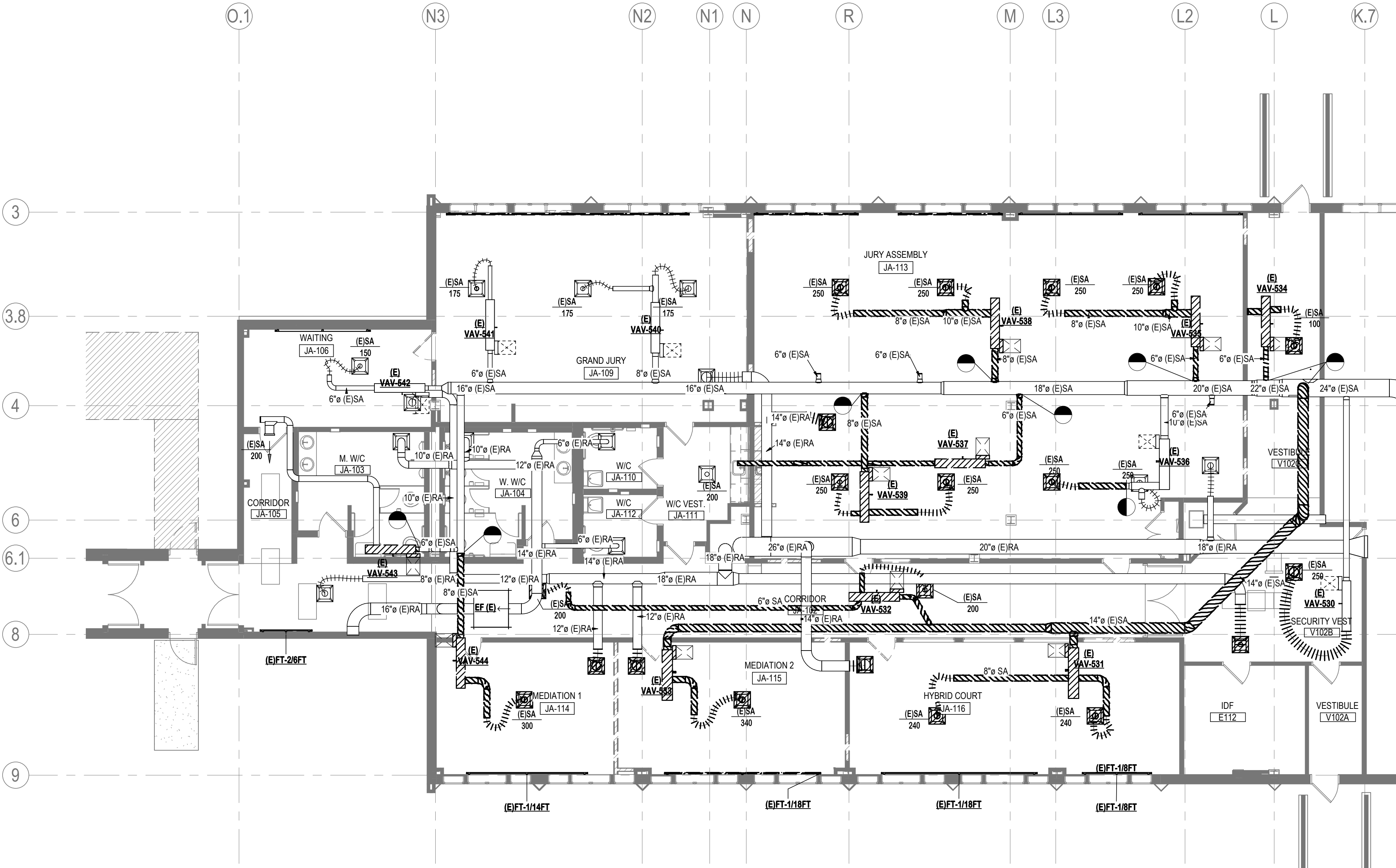


D

C

B

A



A1 MECHANICAL DEMOLITION PLAN - CONNECTOR
MD-101C 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. ALL INFORMATION AND WORK SHOWN, AS EXISTING, WAS TAKEN FROM PAST DESIGN DOCUMENTS. EQUIPMENT, DUCTWORK, AND PIPING HAVE BEEN SHOWN IN APPROXIMATE LOCATION BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT ACTUAL CONDITIONS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ENGINEER. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL BE RESPONSIBLE FOR DETERMINING ALL WORK NECESSARY TO RENOVATE, ALTER, CHANGE, AND/OR REPAIR EXISTING SYSTEMS BASED UPON ACTUAL FIELD CONDITIONS.
2. ALL DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE SO AS TO PREVENT THE UNNECESSARY DESTRUCTION AND/OR DAMAGE TO SYSTEMS THAT SHALL REMAIN IN OPERATION WHILE PERFORMING THIS WORK.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR BECAUSE OF THE CONTRACTOR'S FAILURE TO ACCURATELY DISCOVER, LOCATE, AND PROTECT ANY AND ALL PORTION OF THE EXISTING HVAC SYSTEM.
4. DISCONNECT EQUIPMENT FROM POWER SUPPLY PRIOR TO DEMOLITION START.
5. ISOLATE PIPING FROM EQUIPMENT AND FROM PIPING TO BE DEMOLISHED PRIOR START OF DEMOLITION WORK.
6. ALL EXISTING, DAMAGED DUCTWORK, GRILLES, AND DEVICES WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN IN OPERATION SHALL BE REPLACED WITH NEW MATERIALS CONFORMING TO THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
7. WHERE EXISTING EQUIPMENT AND DEVICE SHALL BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL THE ASSOCIATED DUCTWORK, PIPING, AND CONTROLS THAT SHALL NOT REMAIN IN OPERATION BACK TO THEIR RESPECTIVE SOURCE OR TO THE POINT ON A SHARE SYSTEM FROM WHERE THE EQUIPMENT OR DEVICE IS SERVED.
8. RELOCATE AS NECESSARY ALL EXISTING DUCTWORK, PIPING, AND CONTROLS FOUND PASSING THROUGH THE AREA OF CONSTRUCTION THAT SERVICE AREAS NOT CONTAINED WITHIN PROJECT BOUNDARIES AND ENSURE CONTINUITY OF SERVICES TO ALL SPACES.
9. ALL EQUIPMENT, DEVICE, AND MATERIALS REMOVED DURING DEMOLITION WORK AND NOT INDICATED TO BE REUSED OR TURNED OVER TO THE OWNER SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE.
10. CONTRACTOR SHALL PATCH AND REPAIR EXISTING BUILDING ELEMENT TO MATCH ORIGINAL CONSTRUCTION AND FINISHES FOR ANY IMPACTED AREA.

Consultant

Permit/Seal



2026.02.19

Alaska Court System
Palmer Courthouse
Renovation &
Expansion
515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.: 2014331970
Title

**MECHANICAL
DEMOLITION PLAN -
CONNECTOR**

Scale: As indicated
Revision: 3
NUMBER:

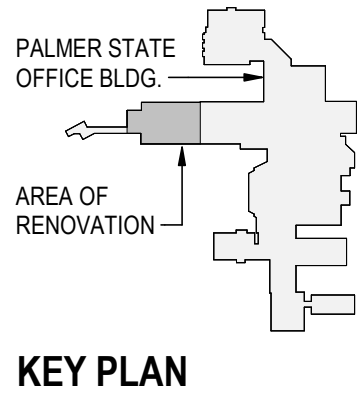
MD-101C

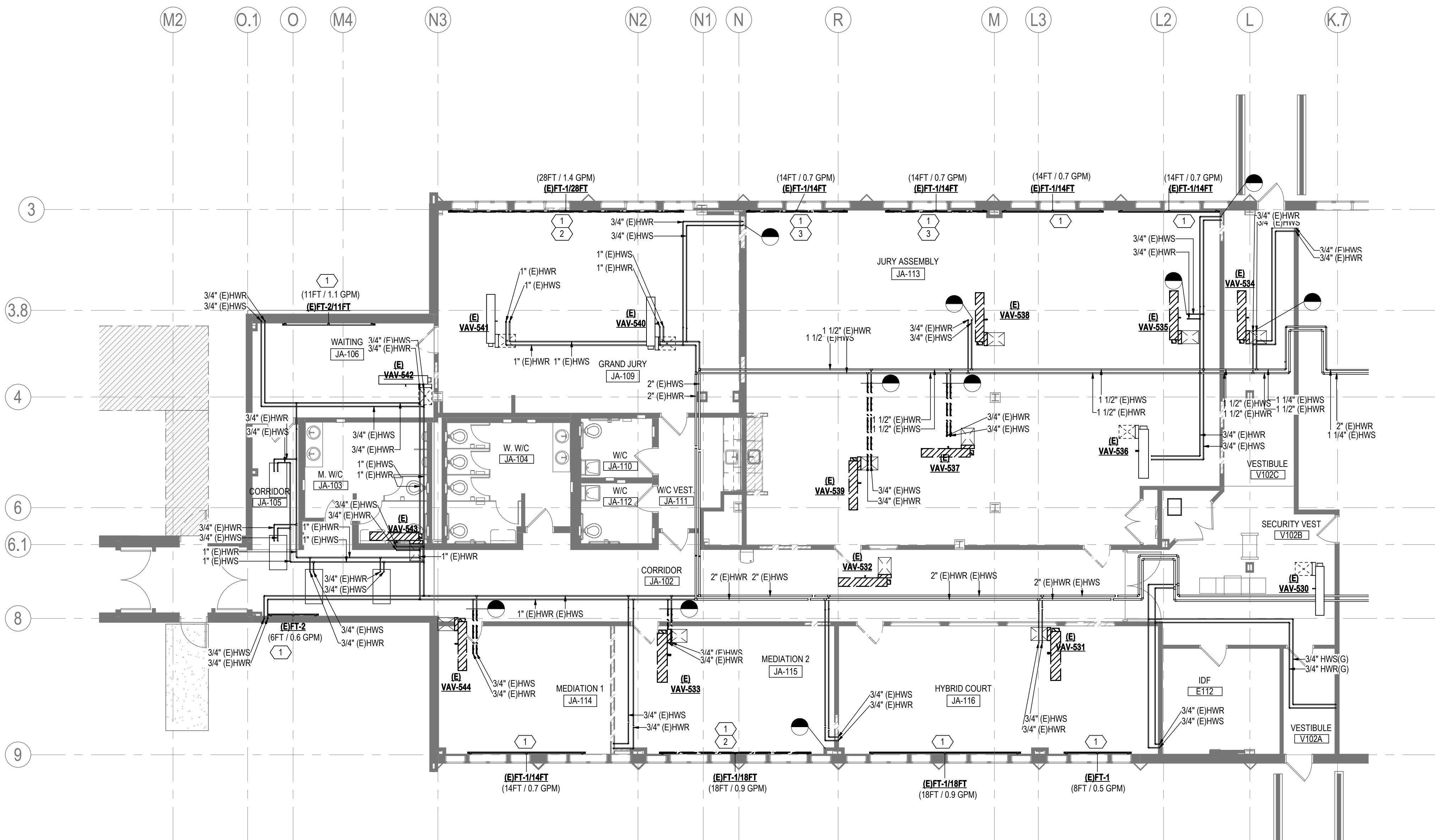


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A1 MECHANICAL DEMOLITION PLAN - CONNECTOR PIPING

MD-102C 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. ALL INFORMATION AND WORK SHOWN, AS EXISTING, WAS TAKEN FROM PAST DESIGN DOCUMENTS. EQUIPMENT, DUCTWORK, AND PIPING HAVE BEEN SHOWN IN APPROXIMATE LOCATION BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT ACTUAL CONDITIONS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ENGINEER. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL BE RESPONSIBLE FOR DETERMINING ALL WORK NECESSARY TO RENOVATE, ALTER, CHANGE, AND/OR REPAIR EXISTING SYSTEMS BASED UPON ACTUAL FIELD CONDITIONS.
2. ALL DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE SO AS TO PREVENT THE UNNECESSARY DESTRUCTION AND/OR DAMAGE TO SYSTEMS THAT SHALL REMAIN IN OPERATION WHILE PERFORMING THIS WORK.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR BECAUSE OF THE CONTRACTOR'S FAILURE TO ACCURATELY DISCOVER, LOCATE, AND PROTECT ANY AND ALL PORTION OF THE EXISTING HVAC SYSTEM.
4. DISCONNECT EQUIPMENT FROM POWER SUPPLY PRIOR TO DEMOLITION START.
5. ISOLATE PIPING FROM EQUIPMENT AND FROM PIPING TO BE DEMOLISHED PRIOR START OF DEMOLITION WORK.
6. ALL EXISTING DAMAGED DUCTWORK, GRILLES, AND DEVICES WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN IN OPERATION SHALL BE REPLACED WITH NEW MATERIALS CONFORMING TO THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
7. WHERE EXISTING EQUIPMENT AND DEVICE SHALL BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL THE ASSOCIATED DUCTWORK, PIPING, AND CONTROLS THAT SHALL NOT REMAIN IN OPERATION BACK TO THEIR RESPECTIVE SOURCE OR TO THE POINT ON A SHARE SYSTEM FROM WHERE THE EQUIPMENT OR DEVICE IS SERVED.
8. RELOCATE AS NECESSARY ALL EXISTING DUCTWORK, PIPING, AND CONTROLS FOUND PASSENGER THROUGH THE AREA OF CONSTRUCTION THAT SERVICE AREAS NOT CONTAINED WITH PROJECT BOUNDARY AND ENSURE CONTINUITY OF SERVICE TO ALL SPACES.
9. ALL EQUIPMENT, DEVICE, AND MATERIALS REMOVED DURING DEMOLITION WORK AND NOT INDICATED TO BE REUSED OR TURNED OVER TO THE OWNING SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE.
10. CONTRACTOR SHALL PATCH AND REPAIR EXISTING BUILDING ELEMENT TO MATCH ORIGINAL CONSTRUCTION AND FINISHES FOR ANY IMPACTED AREA.

2. ALL DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE SO AS TO PREVENT THE UNNECESSARY DESTRUCTION AND/OR DAMAGE TO SYSTEMS THAT SHALL REMAIN IN OPERATION WHILE PERFORMING THIS WORK.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR BECAUSE OF THE CONTRACTOR'S FAILURE TO ACCURATELY DISCOVER, LOCATE, AND PROTECT ANY AND ALL PORTION OF THE EXISTING HVAC SYSTEM.
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5. ISOLATE PIPING FROM EQUIPMENT AND FROM PIPING TO BE DEMOLISHED PRIOR START OF DEMOLITION WORK.
6. ALL EXISTING DAMAGED DUCTWORK, GRILLES, AND DEVICES WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN IN OPERATION SHALL BE REPLACED WITH NEW MATERIALS CONFORMING TO THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
7. WHERE EXISTING EQUIPMENT AND DEVICE SHALL BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL THE ASSOCIATED DUCTWORK, PIPING, AND CONTROLS THAT SHALL NOT REMAIN IN OPERATION BACK TO THEIR RESPECTIVE SOURCE OR TO THE POINT ON A SHARE SYSTEM FROM WHERE THE EQUIPMENT OR DEVICE IS SERVED.
8. RELOCATE AS NECESSARY ALL EXISTING DUCTWORK, PIPING, AND CONTROLS FOUND PASSING THROUGH THE AREA OF CONSTRUCTION THAT SERVICE AREAS NOT CONTAINED WITH PROJECT BOUNDARY AND ENSURE CONTINUITY OF SERVICE TO ALL SPACES.
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6. ALL EXISTING DAMAGED DUCTWORK, GRILLES, AND DEVICES WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN IN OPERATION SHALL BE REPLACED WITH NEW MATERIALS CONFORMING TO THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
7. WHERE EXISTING EQUIPMENT AND DEVICE SHALL BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL THE ASSOCIATED DUCTWORK, PIPING, AND CONTROLS THAT SHALL NOT REMAIN IN OPERATION BACK TO THEIR RESPECTIVE SOURCE OR TO THE POINT ON A SHARE SYSTEM FROM WHERE THE EQUIPMENT OR DEVICE IS SERVED.
8. RELOCATE AS NECESSARY ALL EXISTING DUCTWORK, PIPING, AND CONTROLS FOUND PASSING THROUGH THE AREA OF CONSTRUCTION THAT SERVICE AREAS NOT CONTAINED WITH PROJECT BOUNDARY AND ENSURE CONTINUITY OF SERVICE TO ALL SPACES.
9. ALL EQUIPMENT, DEVICE, AND MATERIALS REMOVED DURING DEMOLITION WORK AND NOT INDICATED TO BE REUSED OR TURNED OVER TO THE OWNER SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE.
10. CONTRACTOR SHALL PATCH AND REPAIR EXISTING BUILDING ELEMENT TO MATCH ORIGINAL CONSTRUCTION AND FINISHES FOR ANY IMPACTED AREA.

4. DISCONNECT EQUIPMENT FROM POWER SUPPLY PRIOR TO DEMOLITION START.
5. ISOLATE PIPING FROM EQUIPMENT AND FROM PIPING TO BE DEMOLISHED PRIOR START OF DEMOLITION WORK.
6. ALL EXISTING DAMAGED DUCTWORK, GRILLES, AND DEVICES WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN IN OPERATION SHALL BE REPLACED WITH NEW MATERIALS CONFORMING TO THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
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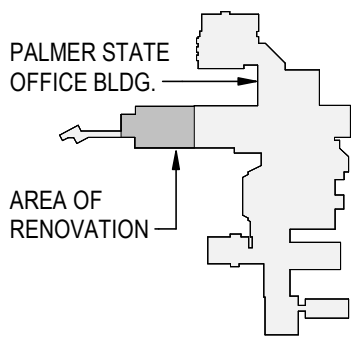
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KEY NOTES:

- ① FIELD VERIFY CONDITION AND SIZE / LENGTH OF FIN TUBE RADIATORS. UNLESS EXISTING RADIATORS INTERFERE WITH THE NEW PARTITION WALLS CONSTRUCTION, EXISTING RADIATORS WILL REMAIN AS IS UNLESS THE CONDITION OF RADIATORS IS NOT GOOD FOR CONTINUE OPERATION AND NEED TO BE REPLACED. CONTRACTOR PROVIDE RADIATORS CONDITION REPORT AND PROPOSED CHANGES AS NEEDED FOR CLIENT REPRESENTATIVE'S APPROVAL PRIOR START TO MAKE ANY CHANGES TO EXISTING FIN TUBE RADIATORS. HYDRONIC SYSTEM SHALL BE RE-BALANCED ONCE FINISH INSTALLATION.
- ② CONFIRM IF FINNED TUBE SECTION LENGTHS CAN BE SEPARATED INTO 8-FT OR SIMILAR LENGTH SECTIONS FOR REINSTALL DURING CONSTRUCTION. PROVIDE PHOTOS OF FINNED TUBE PRIOR TO DEMOLITION. DEMOLISH, REMOVE FROM SERVICE, AND SET ASIDE SALVAGEABLE BASEBOARD FOR REINSTALL DURING CONSTRUCTION.
- ③ DEMOLISH, REMOVE FROM SERVICE, AND SET ASIDE SALVAGEABLE BASEBOARD FOR REINSTALL DURING CONSTRUCTION.

- | | |
|---|--|
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| 3 | DEMOLISH, REMOVE FROM SERVICE, AND SET ASIDE SALVAGEABLE BASEBOARD FOR REINSTALL DURING CONSTRUCTION. |

- 3 DEMOLISH, REMOVE FROM SERVICE, AND SET ASIDE SALVAGEABLE BASEBOARD FOR REINSTALL DURING CONSTRUCTION.



Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

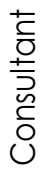
MECHANICAL DEMOLITION PLAN - CONNECTOR PIPING

Scale: As indicated

Revision: 3

NUMBER:

MD-102C



3.	100% CONSTRUCTION DOCUMENTS				2026.02.19
2.	100% CONSTRUCTION DRAWINGS				2026.01.15
1.	50% DESIGN DEVELOPMENT				2025.09.10
	Issued/Revision		By	Appd	YYYY.MM.DD



2026.02.19

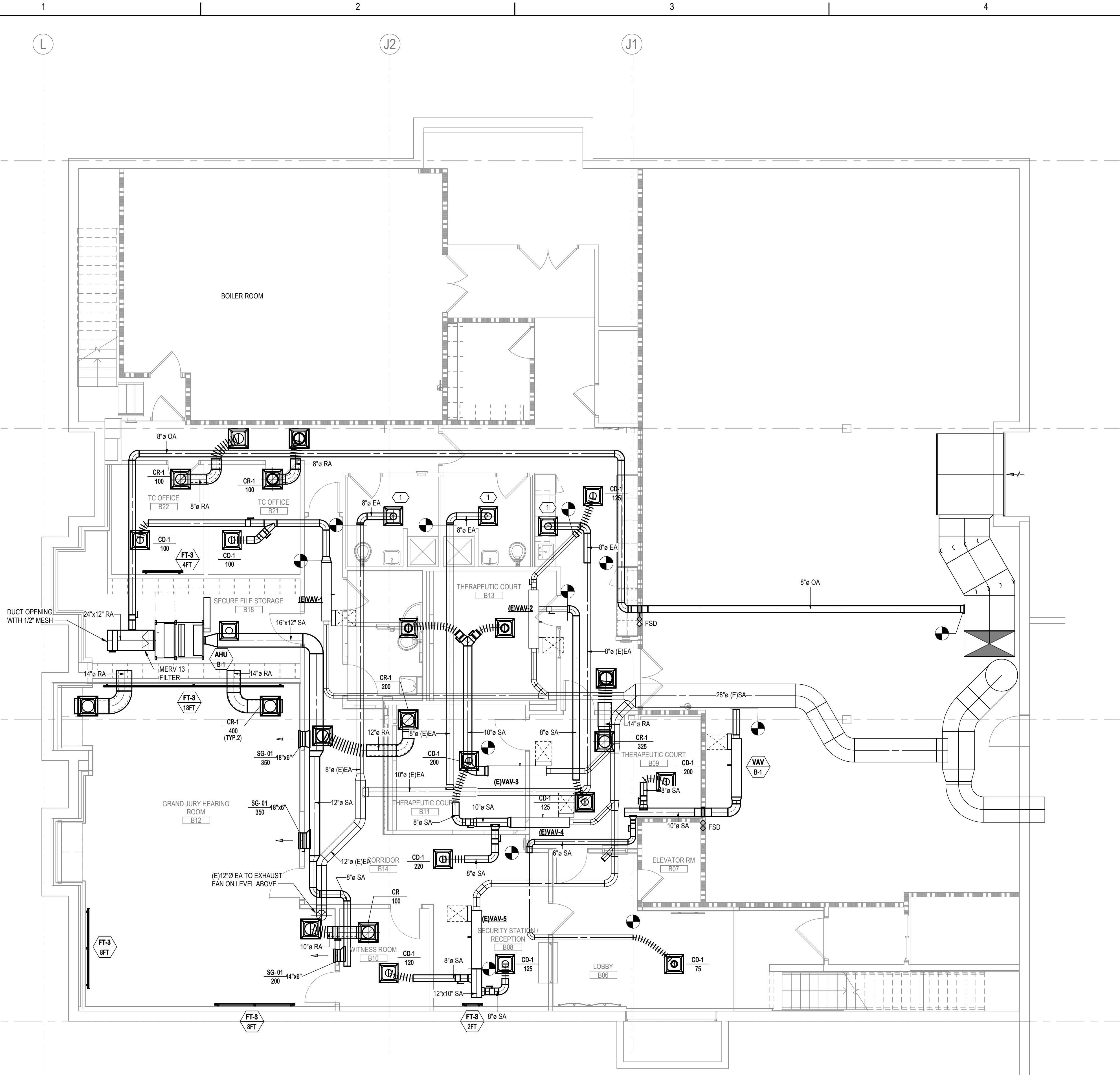
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ORIGINAL SHEET - ANSI D

A1
M1-101B

MECHANICAL FLOOR PLAN - BASEMENT

3/16" = 1'-0"

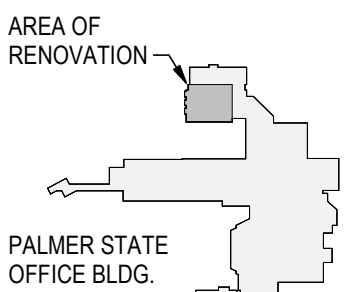


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- TAKE AIRFLOW AND WATER FLOW MEASUREMENT PRIOR COMMENCEMENT OF WORK AND KEEP THE RECORD. FOR ALL THE EXISTING EQUIPMENT TO BE REUSED OR TO BE RELOCATED, UPON COMPLETION OF THE MECHANICAL SYSTEM INSTALLATION. MEASURE THE AIRFLOW AND WATER FLOW AGAIN TO THE EXISTING EQUIPMENT AND THE AIR AND WATER FLOW SHALL BE TESTED, ADJUSTED, AND BALANCED TO ITS ORIGINAL NUMBER PRIOR STARTING THE WORK OF THIS PROJECT.
- ALL NEWLY INSTALLED EQUIPMENT AIRFLOW AND WATER FLOW SHALL BE TESTED, ADJUSTED, BALANCED TO THE NUMBER SHOWN IN THE ASSOCIATED SCHEDULE.
- COORDINATE LOCATIONS OF ALL NEW AND EXISTING EQUIPMENT, DUCT, PIPING LOCATION WITH OTHER TRADES PRIOR TO ANY ROUGH-IN. PROVIDE OFFSETS AND TRANSITIONS WHERE NECESSARY TO ACCOMMODATE BUILDING CONDITIONS AND PRESERVE HEADROOM.
- INSTALL ALL MECHANICAL EQUIPMENT AS PER SITE SEISMIC AND HIGH WIND VELOCITY DESIGN REQUIREMENT, IF APPLICABLE. COORDINATE ROOF MOUNTED EQUIPMENT - NEW CONDENSER UNIT FOR THE AIR HANDLING UNIT.
- MAINTAIN MINIMUM 5 DUCT DIAMETER STRAIGHT DUCT UPSTREAM OF VAV BOXES.
- PROVIDE MANUAL VOLUME DAMPER WHETHER IT IS SHOWN OR NOT AT ALL DUCT BRANCHES TO EACH INDIVIDUAL DIFFUSERS, GRILLES, REGISTERS.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE MINIMUM 10FT AWAY FROM ROOF EDGE UNLESS MINIMUM 42-INCH PARAPET HAS BEEN PROVIDED.
- PROVIDE CONDENSATE DRAIN TO ALL EQUIPMENT WITH COOLING COIL. PIPING CONDENSATE DRAIN TO CLOSEST APPROVED RECEPTOR. REFER PLUMBING DRAWINGS FOR CONDENSATE DETAILS.
- ALL EXHAUST SYSTEM SHALL BE PROVIDED WITH READILY ACCESSIBLE BACKDRAFT DAMPER PER EXHAUST FAN DETAILS.
- REFER TO EQUIPMENT SCHEDULE FOR PIPE SIZE TO EACH FINNED TUBE RADIATOR, AIR HANDLING UNIT, VAV BOXES ETC. WHERE PIPE SIZE IS NOT INDICATED, PROVIDE 3/4" PIPE.
- PROVIDE VALVES, FITTINGS, INSTRUMENT ETC. AS REQUIRED PER DETAILS.
- MAXIMUM FLEXIBLE DUCT LENGTH WILL BE 6FT TO EACH INDIVIDUAL DIFFUSER. FLEXIBLE DUCT SHALL BE PROPERLY SUPPORTED AT NOT MORE THAN 4 FEET INTERVAL. SAG BETWEEN SUPPORT HANGERS SHALL NOT EXCEED 1/2 INCH PER FOOT OF SUPPORT SPACING. DUCT BEND SHALL BE NOT LESS THAN ONE DUCT DIAMETER BEND RADIUS.
- ALL SUPPLY DUCT SHALL HAVE MIN. R4.2 INSULATION INCLUDING RIGID OR FLEXIBLE SUPPLY DUCT. REPAIR DAMAGED INSULATION ON THE EXISTING DUCT AS NEEDED.
- ALL SUPPLY DIFFUSER AND RETURN GRILLE WILL BE REPLACED WITH NEW PLAQUE DIFFUSERS/GRILLES. REPLACE CONNECTED FLEXIBLE DUCT AS NEEDED.

KEY NOTES:

- TAKE MEASUREMENT OF THE EXISTING EXHAUST GRILLES AND RECORD THE AIRFLOW INFORMATION. REPLACE THE EXISTING EXHAUST GRILLES WITH NEW TYPE EG-2 AND VERIFY POINT OF CONNECTION/DISCONNECTION. NO FLEXIBLE DUCT IS ALLOWED FOR EXHAUST. AFTER EXISTING EXHAUST GRILLES TO BE REPLACED WITH NEW, TAB THE AIRFLOW OF THE NEW EXHAUST GRILLES TO MATCH EXISTING AIRFLOW.



KEY PLAN



Consultant

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

File Name: N/A

Author	Designer	Checker	07/29/25
Dwn.	Dsgn.	Chkd.	MM/DD/YYYY

Title

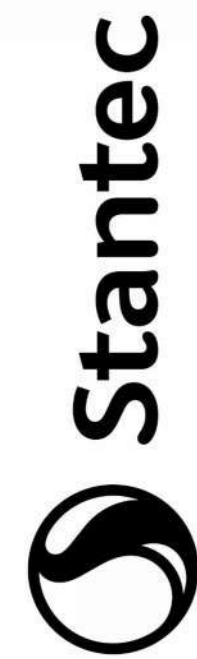
MECHANICAL FLOOR
PLAN - BASEMENT

Scale: As indicated

Revision: 3

Drawing No.

M1-101B



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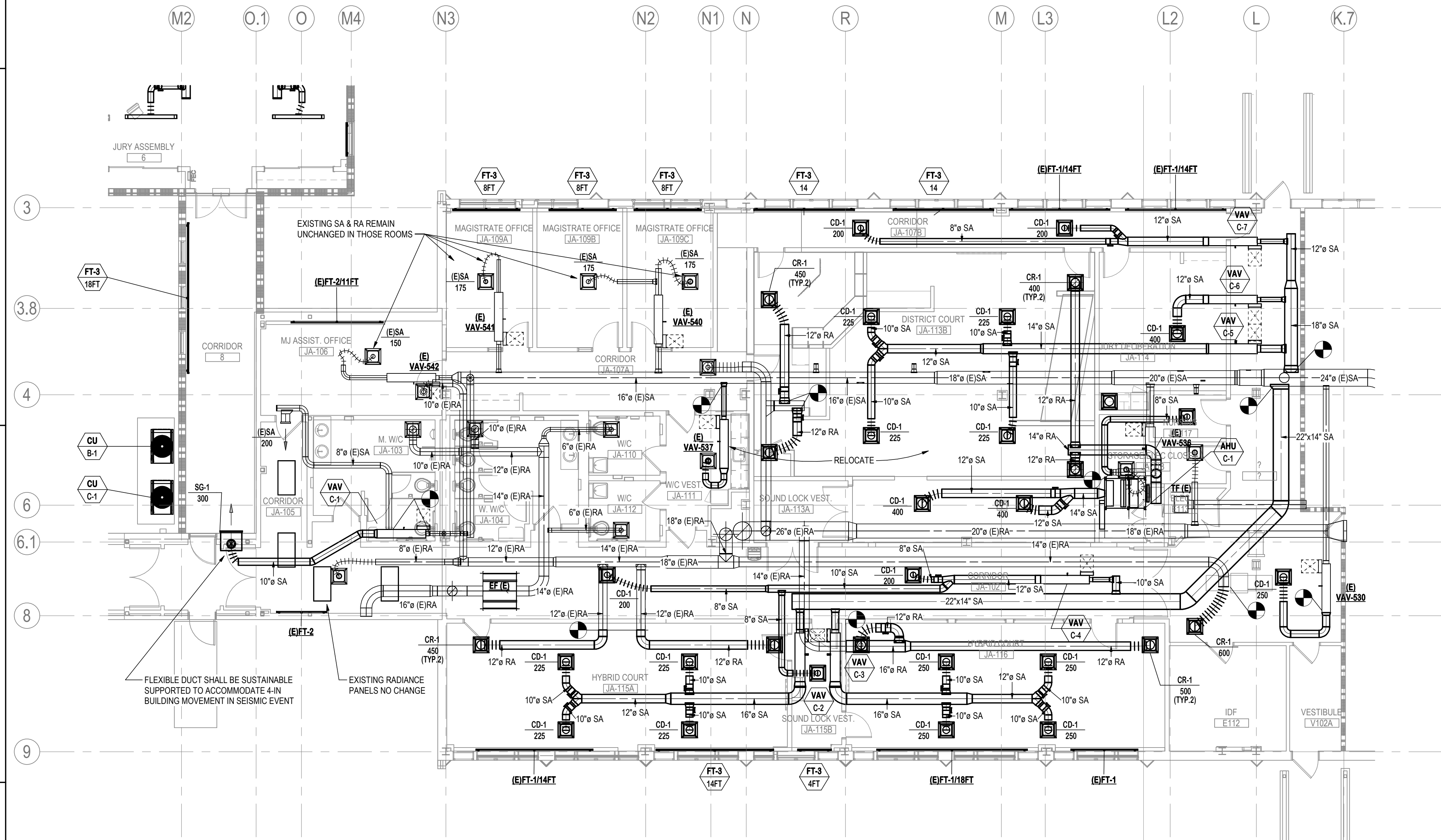
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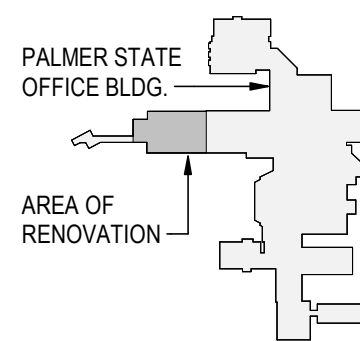
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A1
M1-101C

MECHANICAL FLOOR PLAN - CONNECTOR

1/8" = 1'-0"



KEY PLAN



TRUE NORTH

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Consultant

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

File Name: N/A

Author	Designer	Checker	07/29/25
Dwn.	Dsgn.	Chkd.	MM/DD/YYYY

Title

MECHANICAL FLOOR
PLAN - CONNECTOR

Scale: As indicated

Revision: 3

Drawing No.

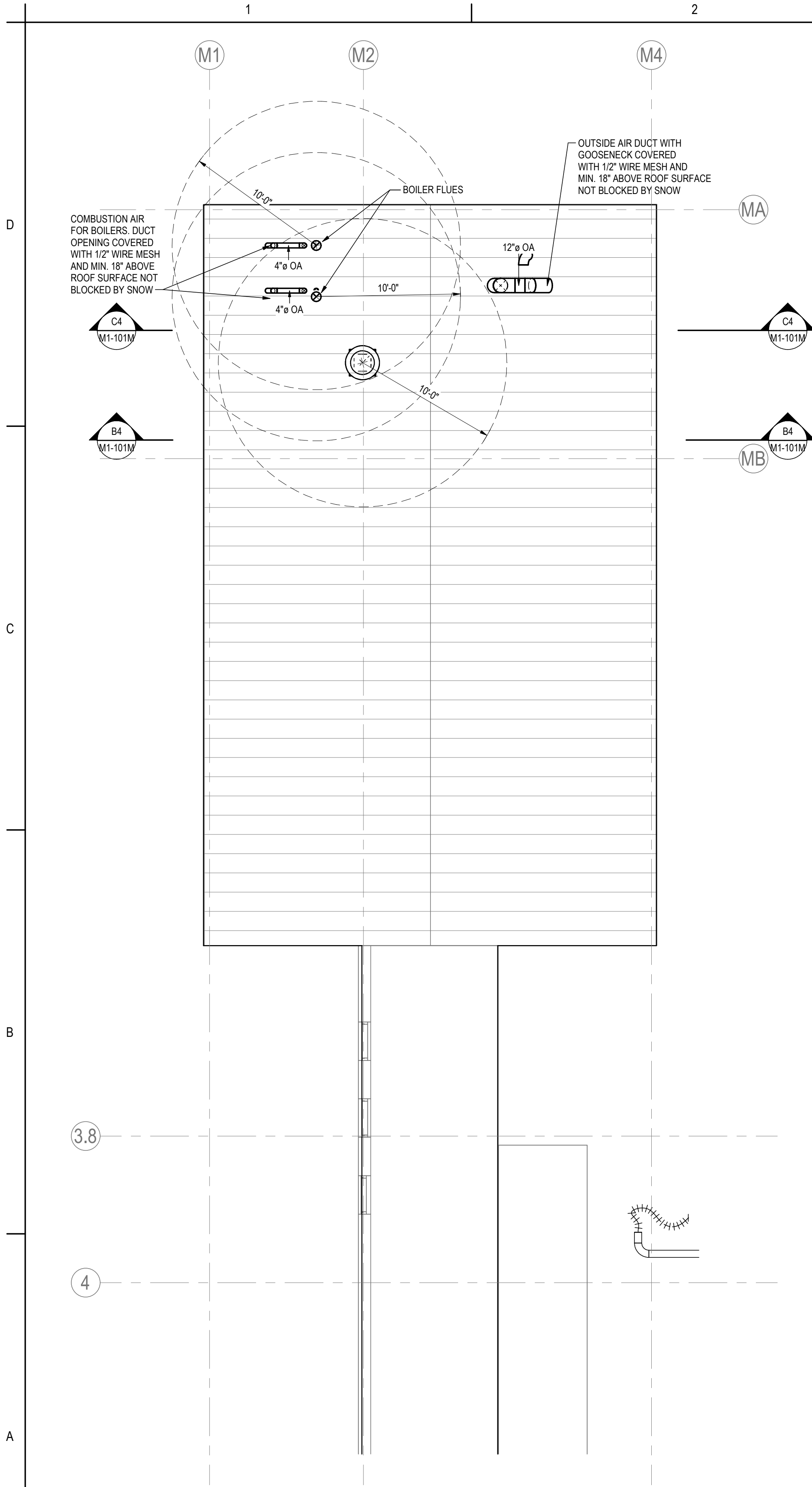
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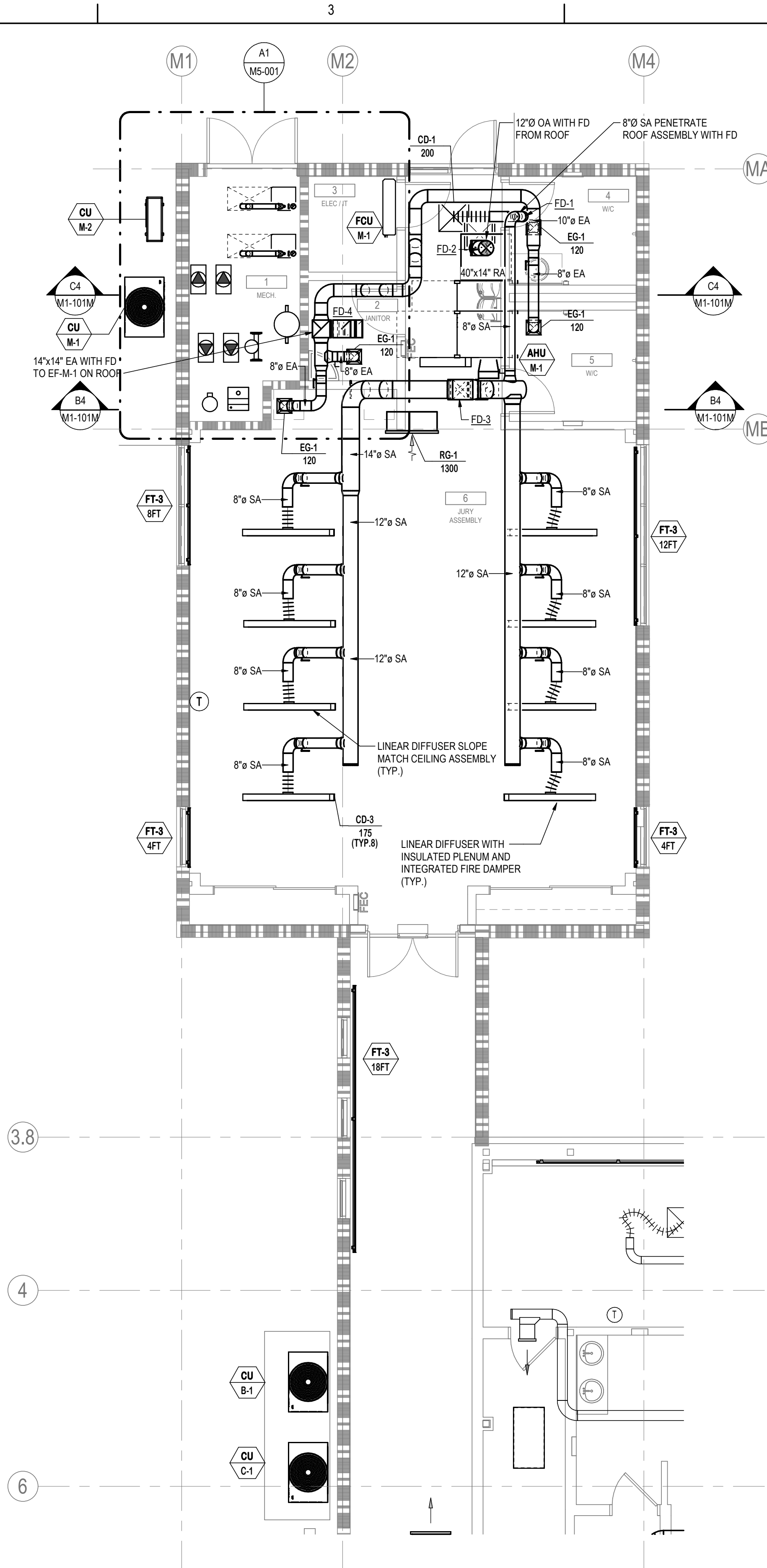
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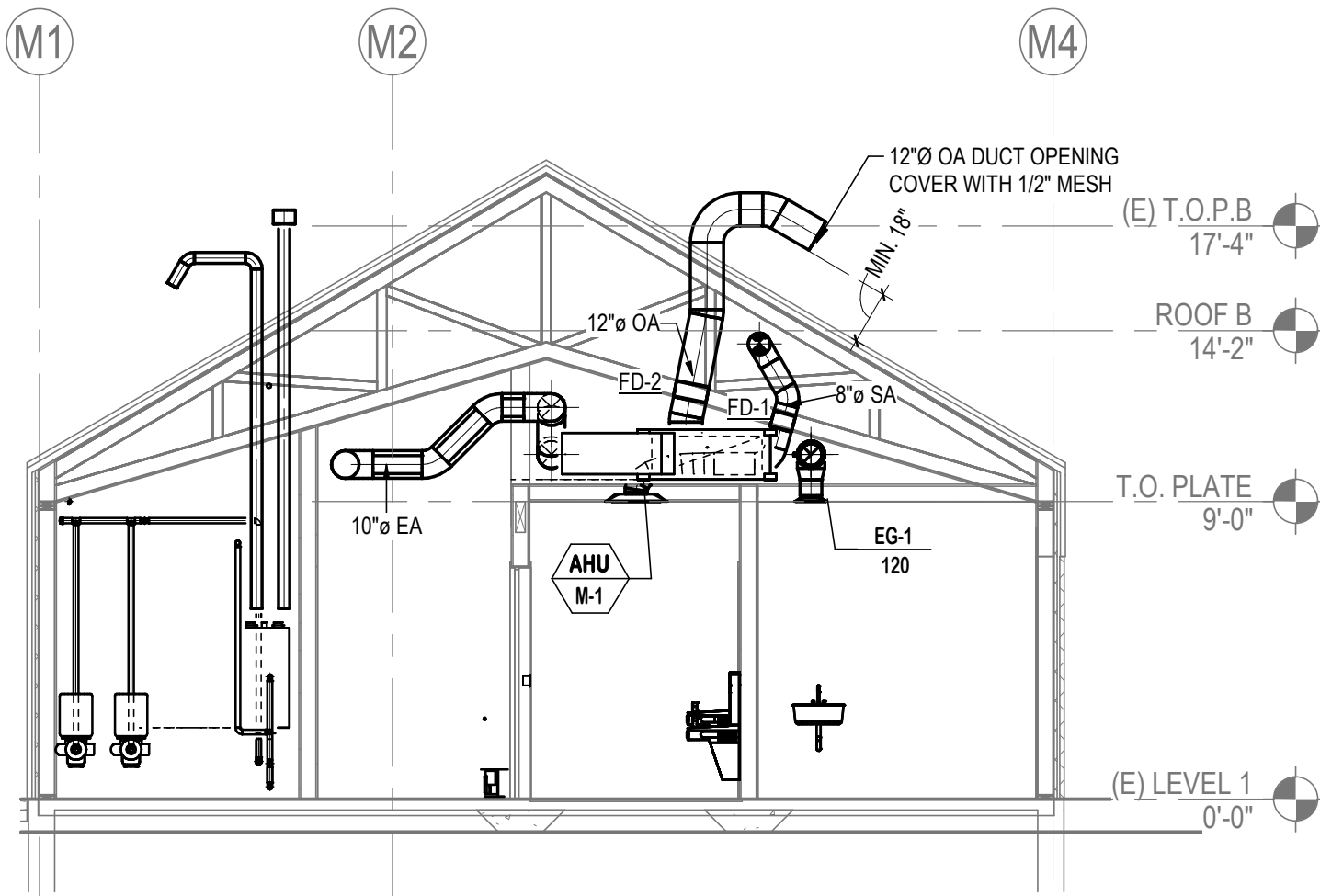
A1 MECHANICAL ROOF PLAN - MODULAR
M1-101M 3/16" = 1'-0"



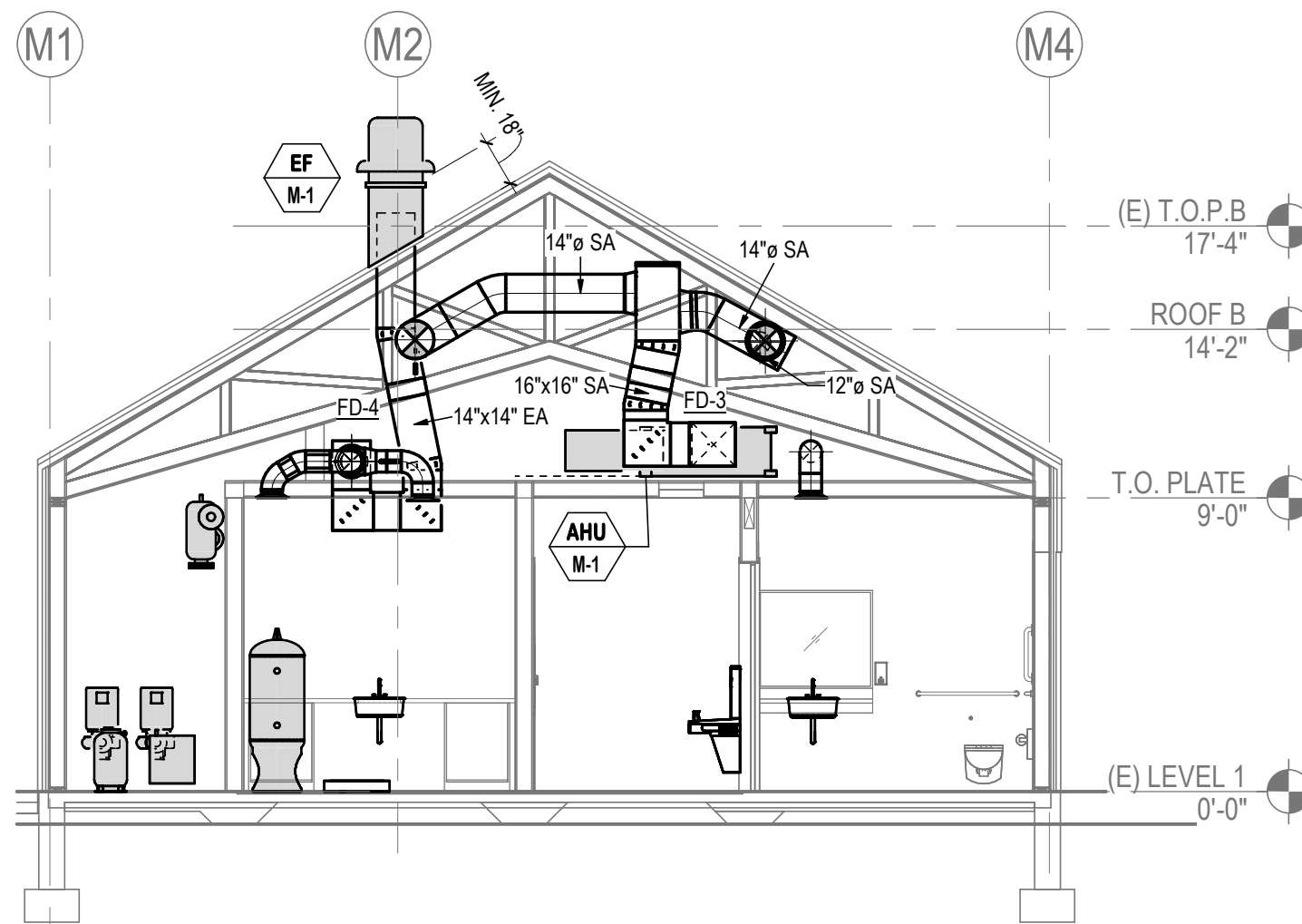
A3 MECHANICAL FLOOR PLAN - MODULAR
M1-101M 3/16" = 1'-0"



C4 MECHANICAL SECTION - A
M1-101M 3/16" = 1'-0"

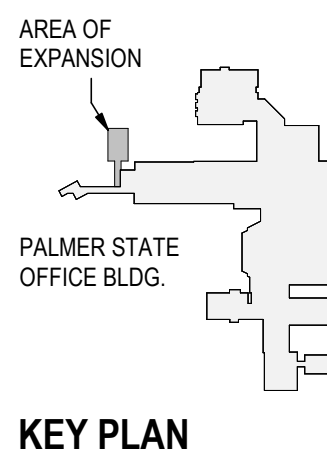


B4 MECHANICAL SECTION - B
M1-101M 3/16" = 1'-0"



GENERAL NOTES:

1. THE BUILDING HAS 1-HOUR RATED ROOF TRUSS ASSEMBLY. ALL PENETRATIONS TO THE ASSEMBLY GREATER THAN 100 SQUARE INCHES TO THE ASSEMBLY SHALL PROVIDE FIRE DAMPER. DAMPERS TO BE UL LISTED.
2. THE LINEAR SLOT DIFFUSERS SERVE THE COURTROOM TO BE WITH INSULATED PLENUM AND INTEGRATED FIRE DAMPER. DIFFUSERS TO BE SLOPE MATCH CEILING.



Consultant

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.: 2014331970
Title

MECHANICAL FLOOR
PLAN - MODULAR

Scale: As indicated
Revision: 3
NUMBER:

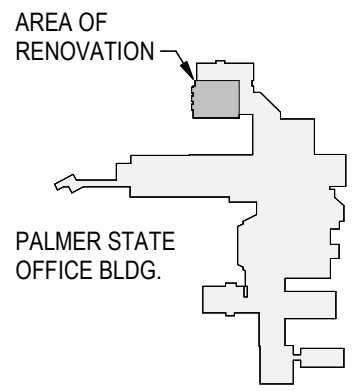
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1 TAKE MEASUREMENT OF THE EXISTING WATER FLOW TO EACH EXISTING VAV BOXES. EXISTING PIPING, VALVES, AND CONTROLS TO EXISTING VAV WILL REMAIN AS IT IS.

2026.02.19

M2-101B

$$3/16'' = 1'-0''$$

D

C

B

A

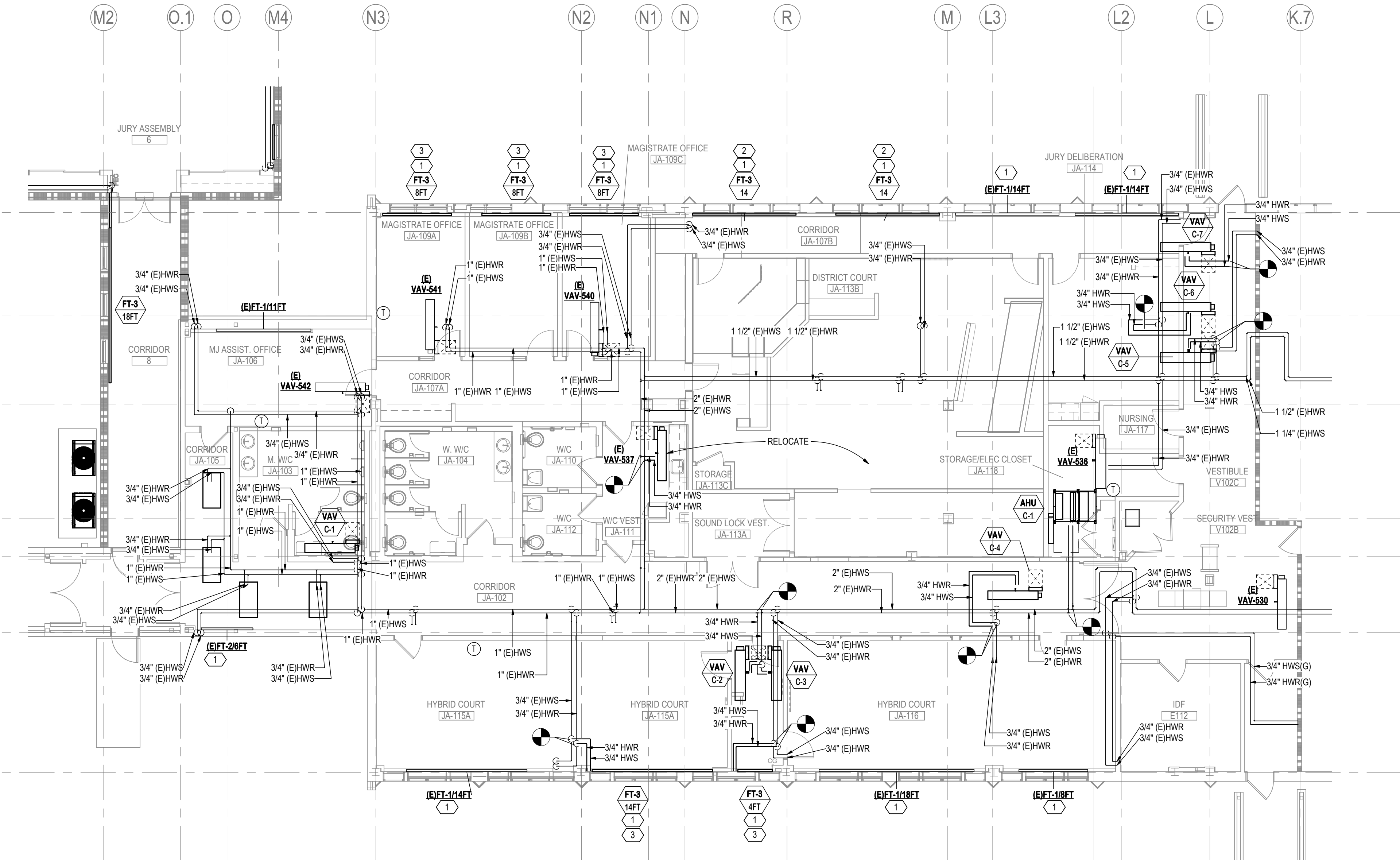
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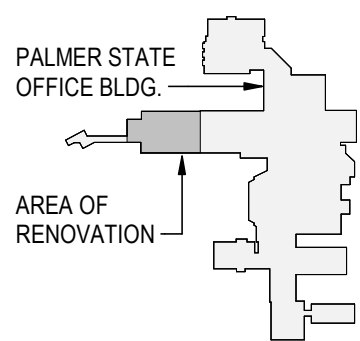
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MECHANICAL PIPING PLAN - CONNECTOR

A1
M2-101C

1/8" = 1'-0"



KEY PLAN



TRUE
NORTH

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- INSTALL ALL MECHANICAL EQUIPMENT AS PER SITE SEISMIC AND HIGH WIND VELOCITY DESIGN REQUIREMENT, IF APPLICABLE. COORDINATE ROOF MOUNTED EQUIPMENT - NEW CONDENSER UNIT FOR THE AIR HANDLING UNIT.
- MAINTAIN MINIMUM 5 DUCT DIAMETER STRAIGHT DUCT UPSTREAM OF VAV BOXES.
- PROVIDE MANUAL VOLUME DAMPER WHETHER IT IS SHOWN OR NOT AT ALL DUCT BRANCHES TO EACH INDIVIDUAL DIFFUSERS, GRILLES, REGISTERS.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE MINIMUM 10FT AWAY FROM ROOF EDGE UNLESS MINIMUM 42-INCH PARAPET HAS BEEN PROVIDED.
- PROVIDE CONDENSATE DRAIN TO ALL EQUIPMENT WITH COOLING COIL. PIPING CONDENSATE DRAIN TO CLOSEST APPROVED RECEPTOR. REFER PLUMBING DRAWINGS FOR CONDENSATE DETAILS.
- ALL EXHAUST SYSTEM SHALL BE PROVIDED WITH READILY ACCESSIBLE BACKDRAFT DAMPER PER EXHAUST FAN DETAILS.
- REFER TO EQUIPMENT SCHEDULE FOR PIPE SIZE TO EACH FINNED TUBE RADIATOR, AIR HANDLING UNIT, VAV BOXES ETC. WHERE PIPE SIZE IS NOT INDICATED, PROVIDE 3/4" PIPE.
- PROVIDE VALVES, FITTINGS, INSTRUMENT ETC. AS REQUIRED PER DETAILS.
- MAXIMUM FLEXIBLE DUCT LENGTH WILL BE 6FT TO EACH INDIVIDUAL DIFFUSER. FLEXIBLE DUCT SHALL BE PROPERLY SUPPORTED AT NOT MORE THAN 4 FEET INTERVAL. SAG BETWEEN SUPPORT HANGERS SHALL NOT EXCEED 1/2 INCH PER FOOT OF SUPPORT SPACING. DUCT BEND SHALL BE NOT LESS THAN ONE DUCT DIAMETER BEND RADIUS.
- ALL SUPPLY DUCT SHALL HAVE MIN. R4.2 INSULATION INCLUDING RIGID OR FLEXIBLE SUPPLY DUCT. REPAIR DAMAGED INSULATION ON THE EXISTING DUCT AS NEEDED.
- ALL SUPPLY DIFFUSER AND RETURN GRILLE WILL BE REPLACED WITH NEW PLAQUE DIFFUSERS/GRILLES. REPLACE CONNECTED FLEXIBLE DUCT AS NEEDED.

KEY NOTES:

- TAKE MEASUREMENT OF THE EXISTING WATER FLOW TO EACH EXISTING FINNED TUBE AND VAV. EXISTING PIPING, VALVES, AND CONTROLS TO EXISTING VAV WILL REMAIN AS IS.
- REINSTALL SALVAGED FINNED TUBE AT 7 INCHES ABOVE PREVIOUS LOCATION.
- REINSTALL SALVAGED FINNED TUBE IN LENGTH REQUIRED FOR NEW CONSTRUCTION.

Consultant

Permit/Seal



2026.02.19

Alaska Court System

Palmar Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

File Name: N/A

Author	Designer	Checker	07/29/25
Dwn.	Dsgn.	Chkd.	MM/DD/YYYY

Title

MECHANICAL PIPING
PLAN - CONNECTOR

Scale: As indicated

Revision: 3

Drawing No.

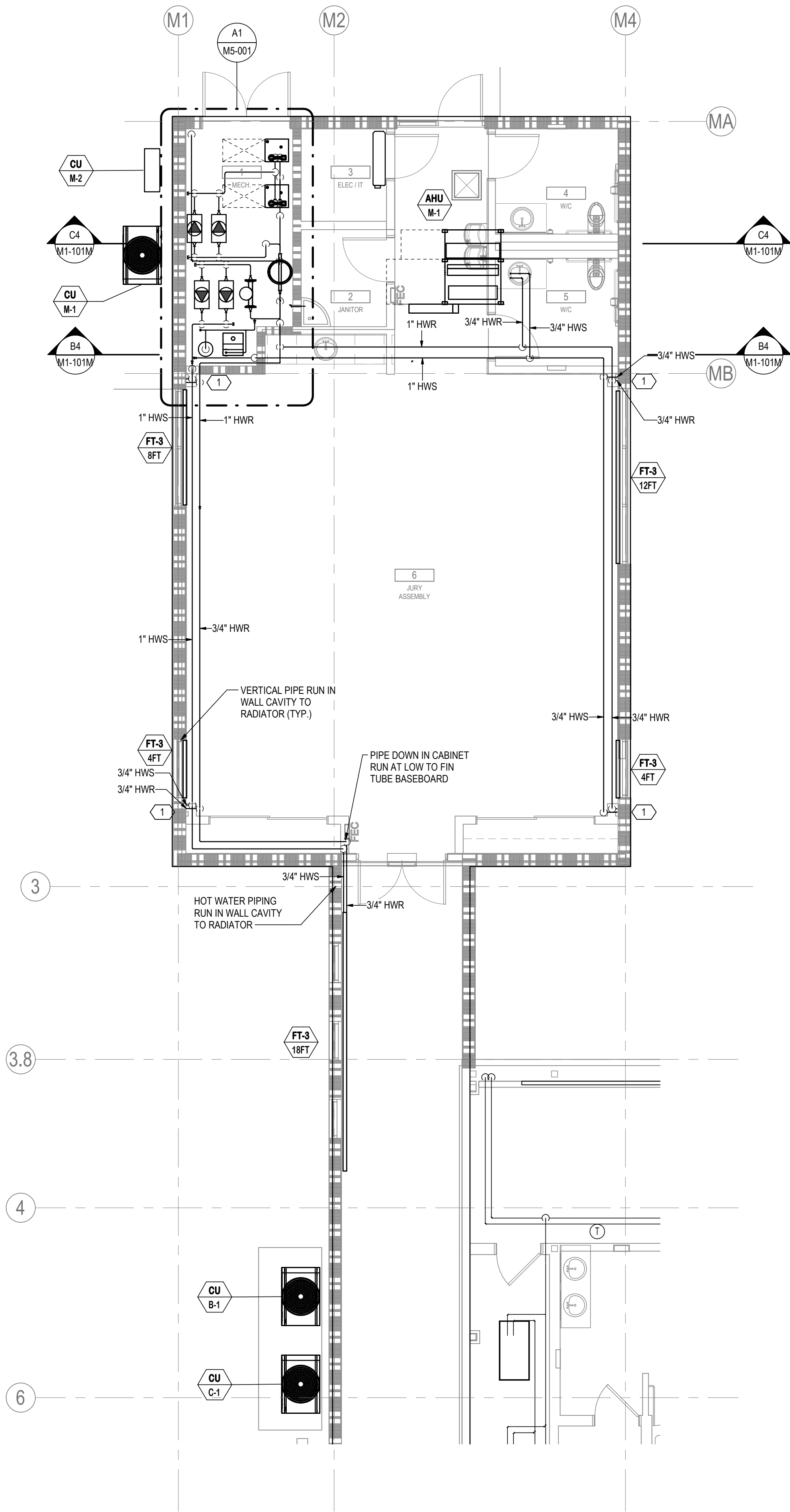
M2-101C



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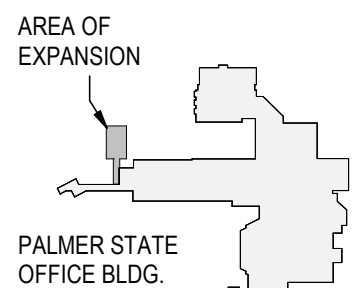
A1 **MECHANICAL PIPING PLAN - MODULAR**
M2-101M 3/16" = 1'-0"

GENERAL NOTES:

1. ALL INFORMATION AND WORK SHOWN AS EXISTING WAS TAKEN FROM PAST DESIGN DOCUMENTS. EQUIPMENT, DUCTWORK, AND PIPING HAVE BEEN SHOWN IN APPROXIMATE LOCATION BASED ON BEST INFORMATION AVAILABLE AND MAY NOT HAVE BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL WORK NECESSARY TO RENOVATE, ALTER, CHANGE, AND REPAIR EXISTING SYSTEM BASED UPON THE ACTUAL FIELD CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK.
2. TAKE AIRFLOW AND WATER FLOW MEASUREMENT PRIOR COMMENCEMENT OF WORK AND KEEP THE RECORD. FOR ALL THE EXISTING EQUIPMENT TO BE REUSED OR TO BE RELOCATED, UPON COMPLETION OF THE MECHANICAL SYSTEM INSTALLATION. MEASURE THE AIRFLOW AND WATER FLOW AGAIN TO THE EXISTING EQUIPMENT AND THE AIR AND WATER FLOW SHALL BE TESTED, ADJUSTED, AND BALANCED TO ITS ORIGINAL NUMBER PRIOR STARTING THE WORK OF THIS PROJECT.
3. ALL NEWLY INSTALLED EQUIPMENT AIRFLOW AND WATER FLOW SHALL BE TESTED, ADJUSTED, BALANCED TO THE NUMBER SHOWN IN THE ASSOCIATED SCHEDULE.
4. COORDINATE LOCATIONS OF ALL NEW AND EXISTING EQUIPMENT, DUCT, PIPING LOCATION WITH OTHER TRADES PRIOR TO ANY ROUGH-IN. PROVIDE OFFSETS AND TRANSITIONS WHERE NECESSARY TO ACCOMMODATE BUILDING CONDITIONS AND PRESERVE HEADROOM.
5. INSTALL ALL MECHANICAL EQUIPMENT AS PER SITE SEISMIC AND HIGH WIND VELOCITY DESIGN REQUIREMENT, IF APPLICABLE. COORDINATE ROOF MOUNTED EQUIPMENT - NEW CONDENSER UNIT FOR THE AIR HANDLING UNIT.
6. MAINTAIN MINIMUM 5 DUCT DIAMETER STRAIGHT DUCT UPSTREAM OF VAV BOXES.
7. PROVIDE MANUAL VOLUME DAMPER WHETHER IT IS SHOWN OR NOT AT ALL DUCT BRANCHES TO EACH INDIVIDUAL DIFFUSERS, GRILLES, REGISTERS.
8. ALL ROOF MOUNTED EQUIPMENT SHALL BE MINIMUM 10FT AWAY FROM ROOF EDGE UNLESS MINIMUM 42-INCH PARAPET HAS BEEN PROVIDED.
9. PROVIDE CONDENSATE DRAIN TO ALL EQUIPMENT WITH COOLING COIL. PIPING CONDENSATE DRAIN TO CLOSEST APPROVED RECEPTOR. REFER PLUMBING DRAWINGS FOR CONDENSATE DETAILS.
10. ALL EXHAUST SYSTEM SHALL BE PROVIDED WITH READILY ACCESSIBLE BACKDRAFT DAMPER PER EXHAUST FAN DETAILS.
11. REFER TO EQUIPMENT SCHEDULE FOR PIPE SIZE TO EACH FINNED TUBE RADIATOR, AIR HANDLING UNIT, VAV BOXES ETC. WHERE PIPE SIZE IS NOT INDICATED, PROVIDE 3/4" PIPE.
12. PROVIDE VALVES, FITTINGS, INSTRUMENT ETC. AS REQUIRED PER DETAILS.
13. MAXIMUM FLEXIBLE DUCT LENGTH WILL BE 6FT TO EACH INDIVIDUAL DIFFUSER. FLEXIBLE DUCT SHALL BE PROPERLY SUPPORTED AT NOT MORE THAN 4 FEET INTERVAL. SAG BETWEEN SUPPORT HANGERS SHALL NOT EXCEED 1/2 INCH PER FOOT OF SUPPORT SPACING. DUCT BEND SHALL BE NOT LESS THAN ONE DUCT DIAMETER BEND RADIUS.
14. ALL SUPPLY DUCT SHALL HAVE MIN. R4.2 INSULATION INCLUDING RIGID OR FLEXIBLE SUPPLY DUCT. REPAIR DAMAGED INSULATION ON THE EXISTING DUCT AS NEEDED.
15. ALL SUPPLY DIFFUSER AND RETURN GRILLE WILL BE REPLACED WITH NEW PLAQUE DIFFUSERS/GRILLES. REPLACE CONNECTED FLEXIBLE DUCT AS NEEDED.

KEY NOTES:

- 1 3/4"Ø HEATING HOT WATER SUPPLY AND RETURN PIPING RUN IN PIPING CHASE DOWN TO FIN TUBE BASEBOARD. PIPING CHASE DETAILS REFER DETAIL D1/A9-101M.



Consultant

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

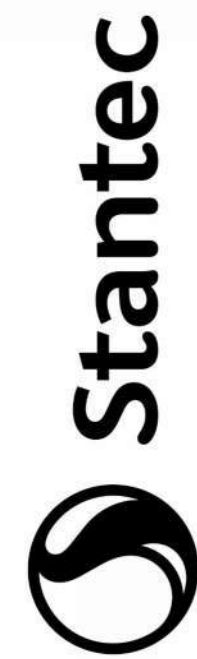
MECHANICAL PIPING
PLAN - MODULAR

Scale:As indicated

Revision:3

NUMBER:

M2-101M



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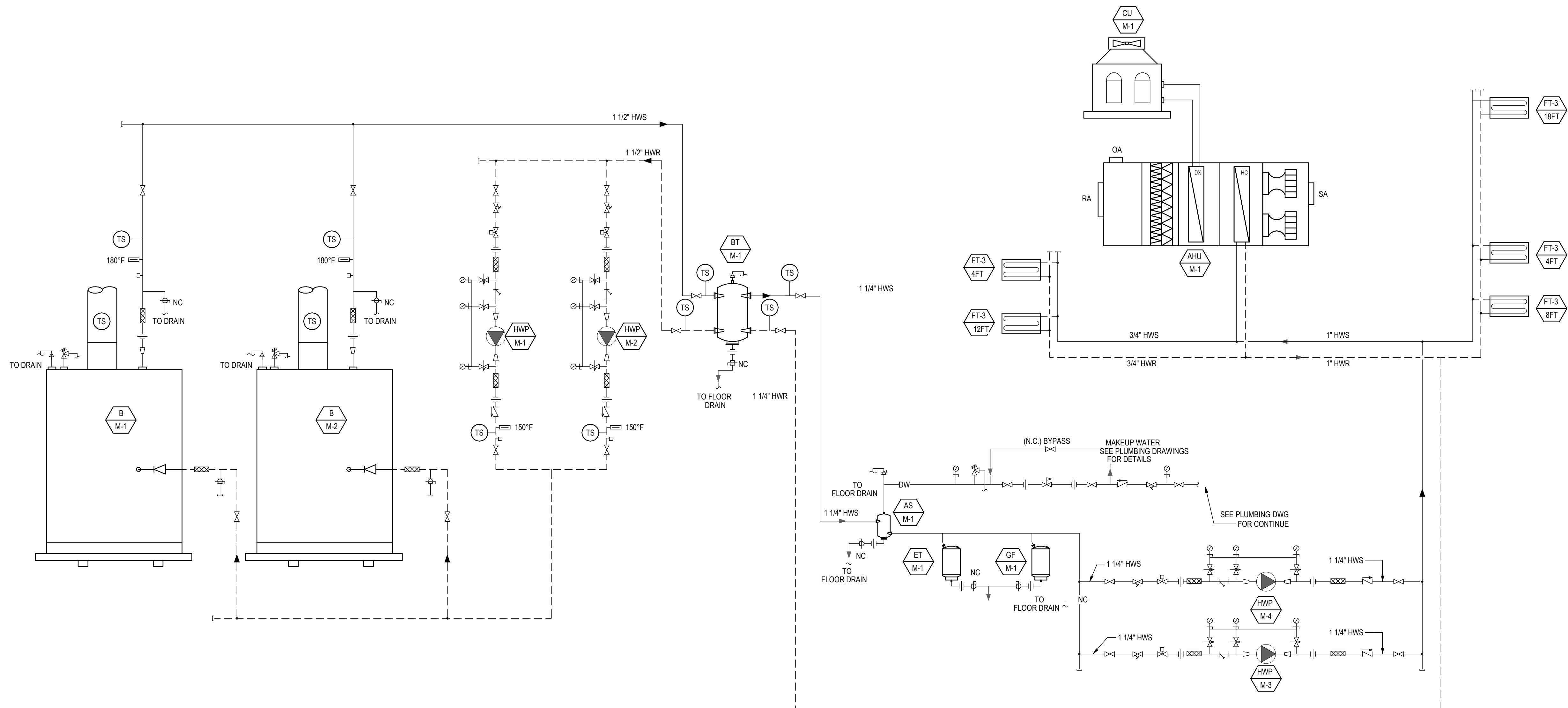
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D

C

B

A



A1
M4-001

MECHANICAL HEATING HOT WATER SINGLE LINE DIAGRAM

12" = 1'-0"

<Pick location in Project Information>

ORIGINAL SHEET - ANSI C

NOTES:

1. THE CONTROL DEVICES, INSTRUMENTS, AND VALVES, ETC. MAY BE SHOWN ON BOTH THE SINGLE LINE DIAGRAM AND THE TYPICAL DETAILS ON M5 DRAWINGS. WHEN CONFLICT EXISTS, THE MORE STRINGENT REQUIREMENTS WILL APPLY.
2. PROVIDE ALL AUXILIARY DEVICES, INSTRUMENTS, AND VALVES TO SATISFY FUNCTIONAL DDC CONTROL OF THE HYDRONIC SYSTEMS AND TO SATISFY TAB REQUIREMENTS. PROVIDE ADDITIONAL DEVICES, INSTRUMENT, AND VALVES, AS NEEDED, FOR A COMPLETE INSTALLATION.
3. GLYCOL SHALL NOT DISCHARGED OR DRAINED DIRECTLY INTO THE CITY SANITARY OR STORM SEWER SYSTEM. DISPOSE OF GLYCOL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. COORDINATE WITH OWNER FOR PROPER COLLECTION, CONTAINMENT, AND OFF-SITE DISPOSAL. CONTRACTOR SHALL PROVIDE TEMPORARY CONTAINMENT AND ARRANGE FOR PROPER RECYCLING OR DISPOSAL. IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND LOCAL AUTHORITY REQUIREMENTS.

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Issued/Revision		By	Appd	YYYY-MM-DD
3	100% CONSTRUCTION DOCUMENTS			2024.02.12
2	100% CONSTRUCTION DRAWINGS			2024.01.15
1	50% DESIGN DEVELOPMENT			2023.09.10

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse Renovation & Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

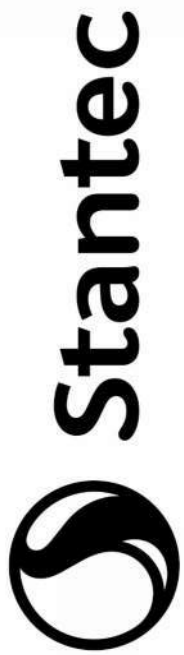
HEATING HOT WATER SINGLE LINE DIAGRAM

Scale: 12" = 1'-0"

Revision:3

NUMBER:

M4-001



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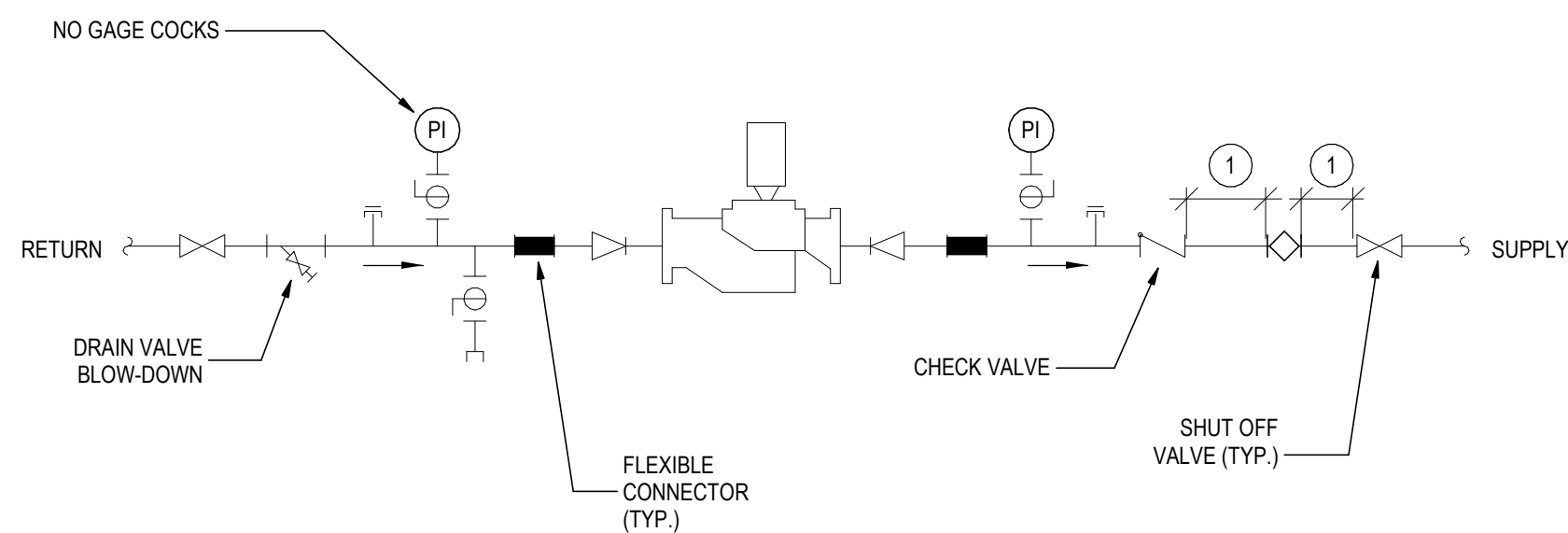
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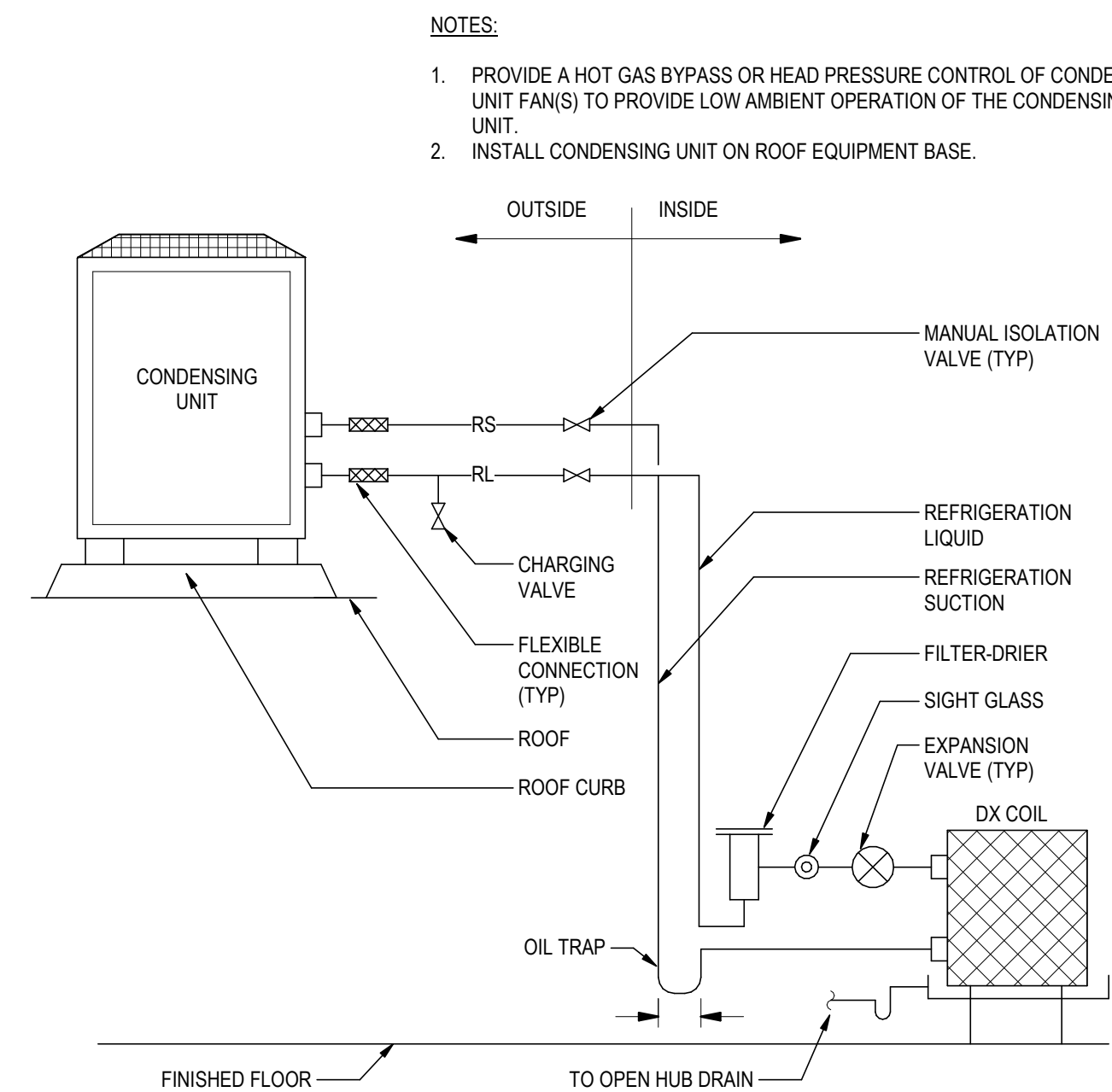
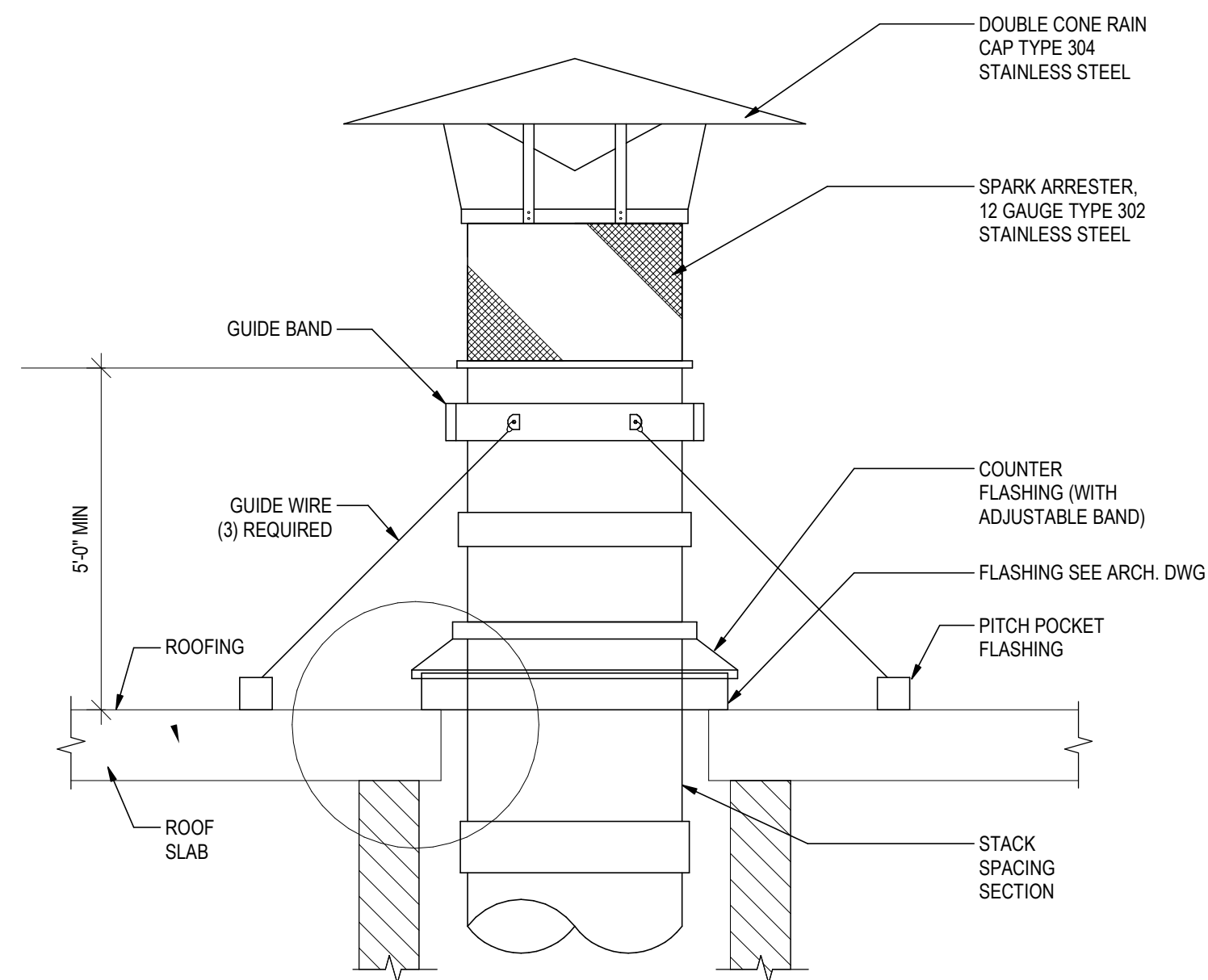
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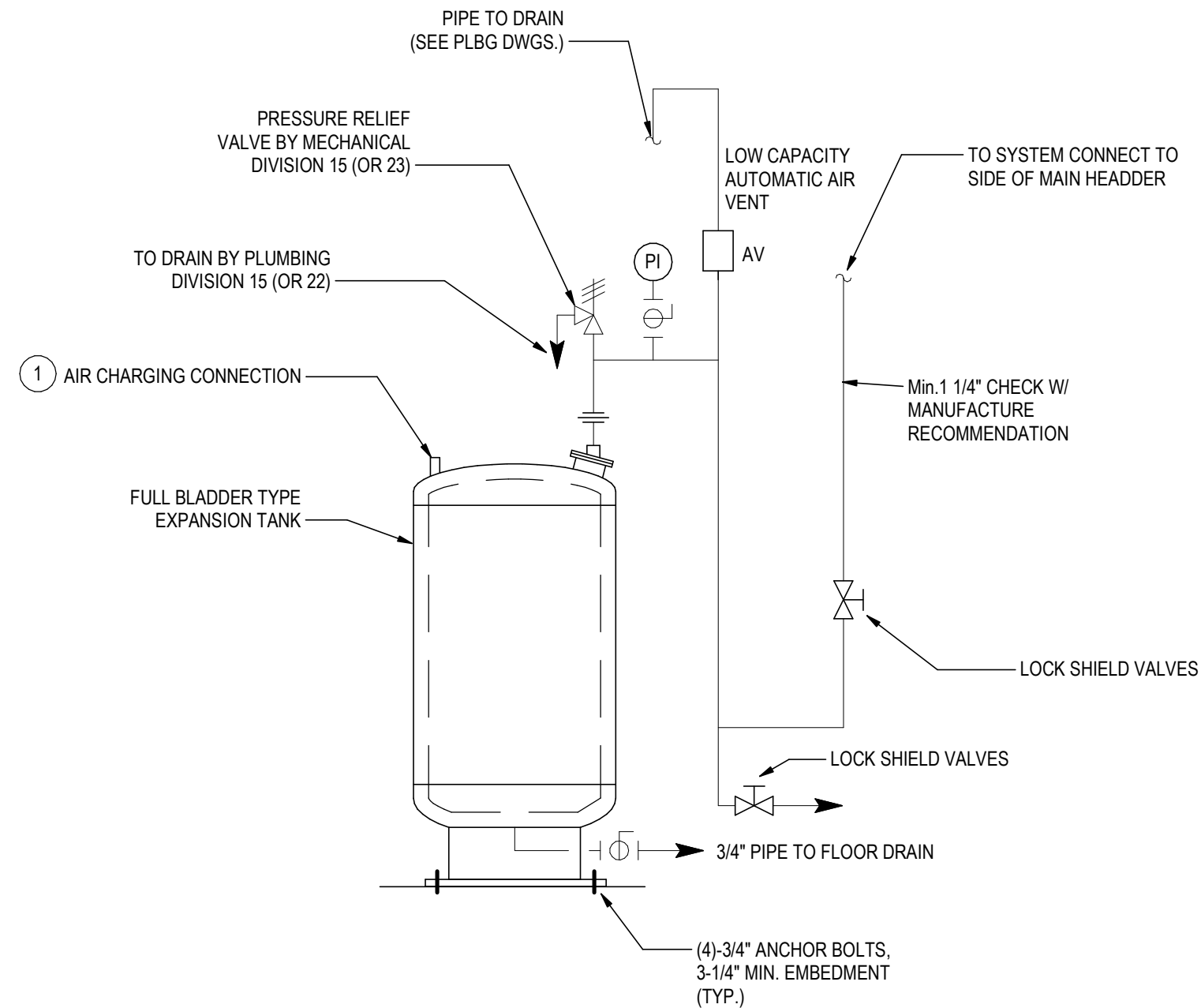
KEY NOTES:

- ① MIN. 10 PIPE DIAMETERS STRAIGHT UPSTREAM & 3 PIPE DIAMETERS DOWNSTREAM OF BALANCING VALVE
(CHECK W/ MANUFACTURE MANUAL)



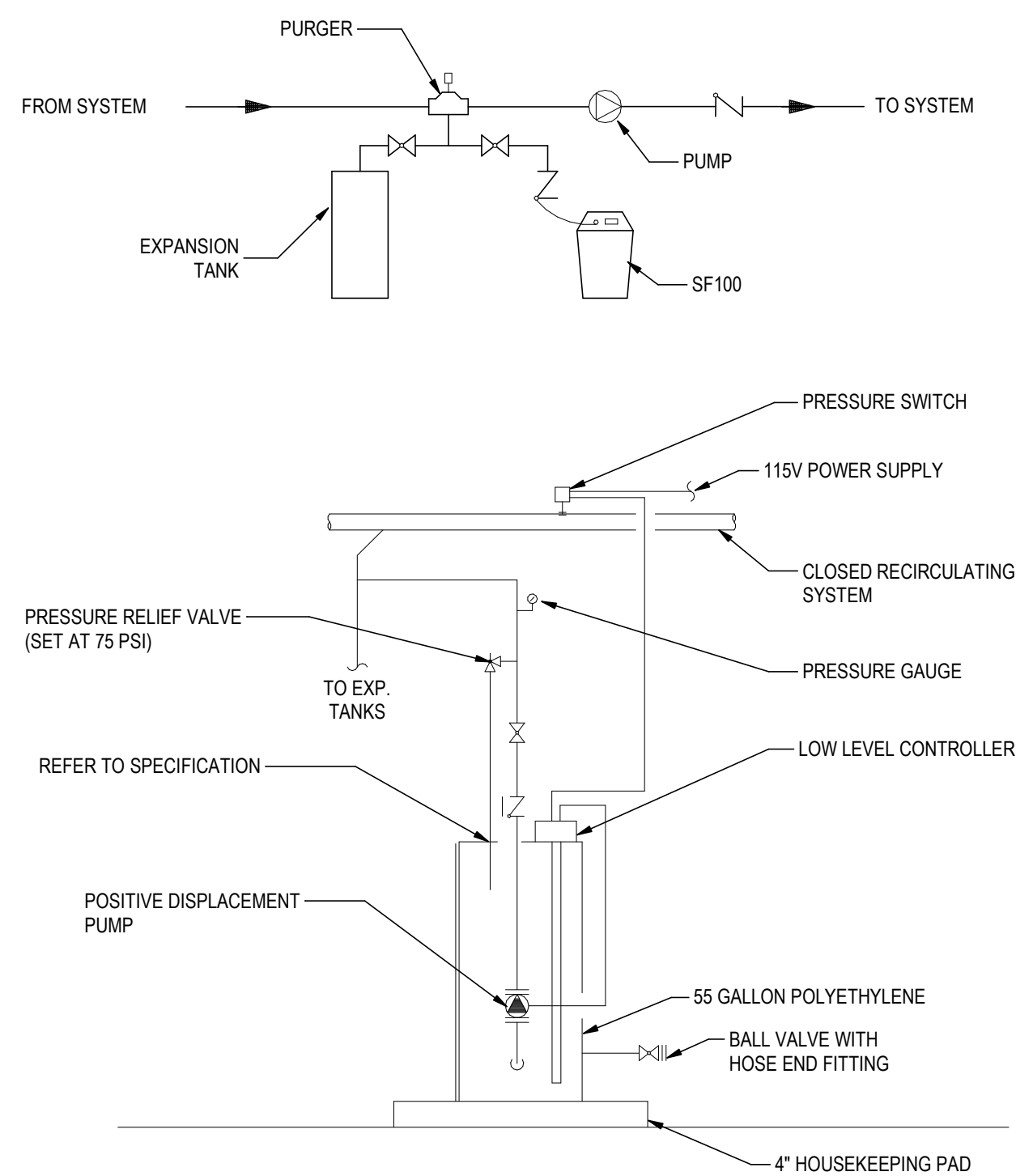
NOTES:

1. PROVIDE A HOT GAS BYPASS OR HEAD PRESSURE CONTROL OF CONDENSING UNIT FAN(S) TO PROVIDE LOW AMBIENT OPERATION OF THE CONDENSING UNIT.
2. INSTALL CONDENSING UNIT ON ROOF EQUIPMENT BASE.



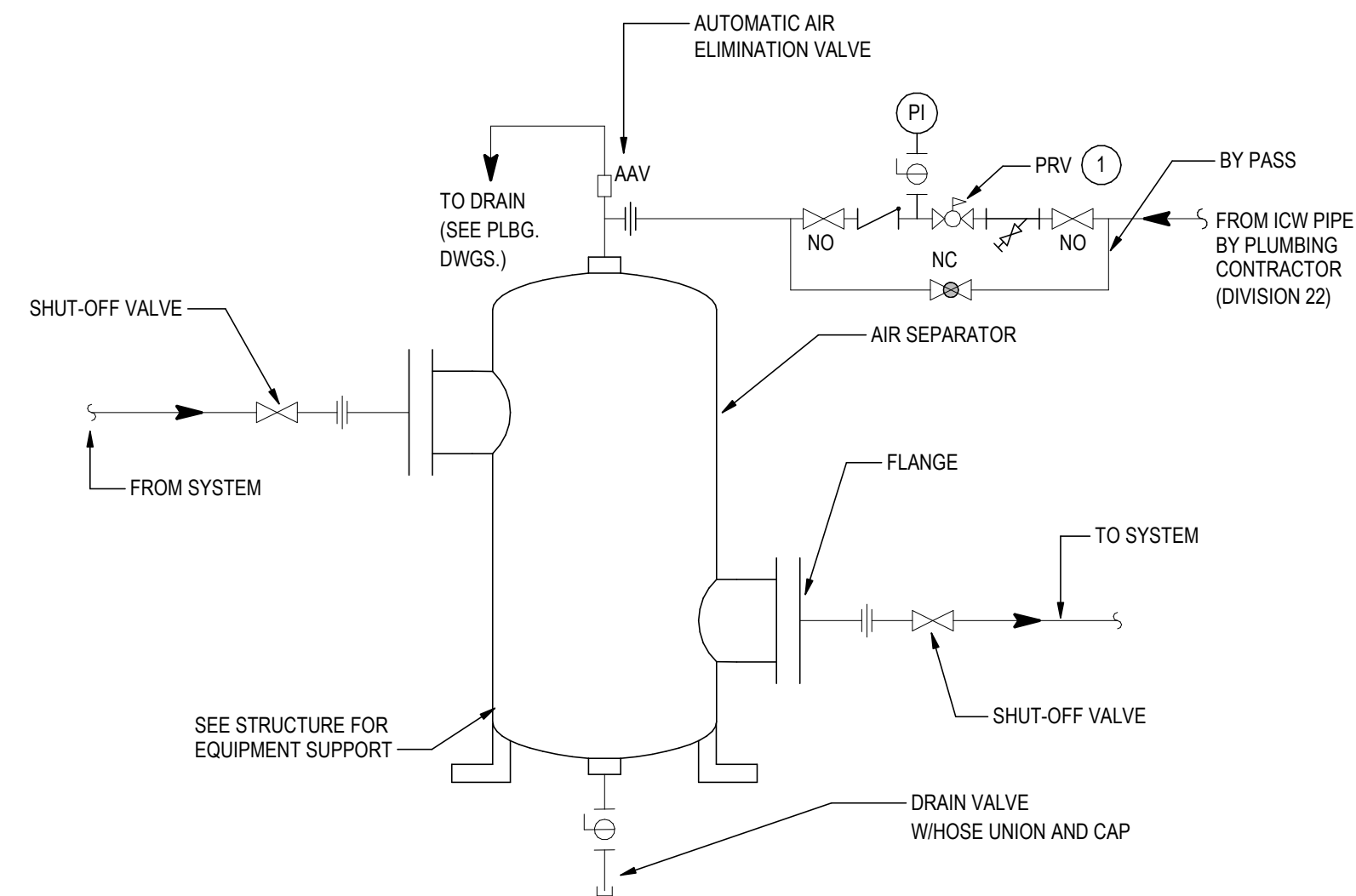
NOTES:

- 1 PRESSURIZE DRY TANK EQUAL TO CW FILL VALVE PRV PRESSURE.



NOTE:

1. GLYCOL FEEDER SHALL BE A PACKAGED SYSTEM PROVIDED BY THE WATER TREATMENT SUPPLIER AXIOM OR EQUIVALENT.
2. GLYCOL SHALL NOT BE DISCHARGED OR DRAINED DIRECTLY INTO THE CITY SANITARY OR STORM SEWER SYSTEM. DISPOSE OF GLYCOL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. COORDINATE WITH OWNER FOR PROPER COLLECTION, CONTAINMENT, AND OFF-SITE DISPOSAL.



NOTES:

- 1 SET AT 5 PSIG HIGHER THAN THE PRESSURE AT THE HIGH POINT IN THE SYSTEM.
- 2 ICW IS CONNECTED TO POTABLE WATER AT BACK FLOW PREVENTER BFP

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Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER AK 99645

Project No.:2014331970

Title

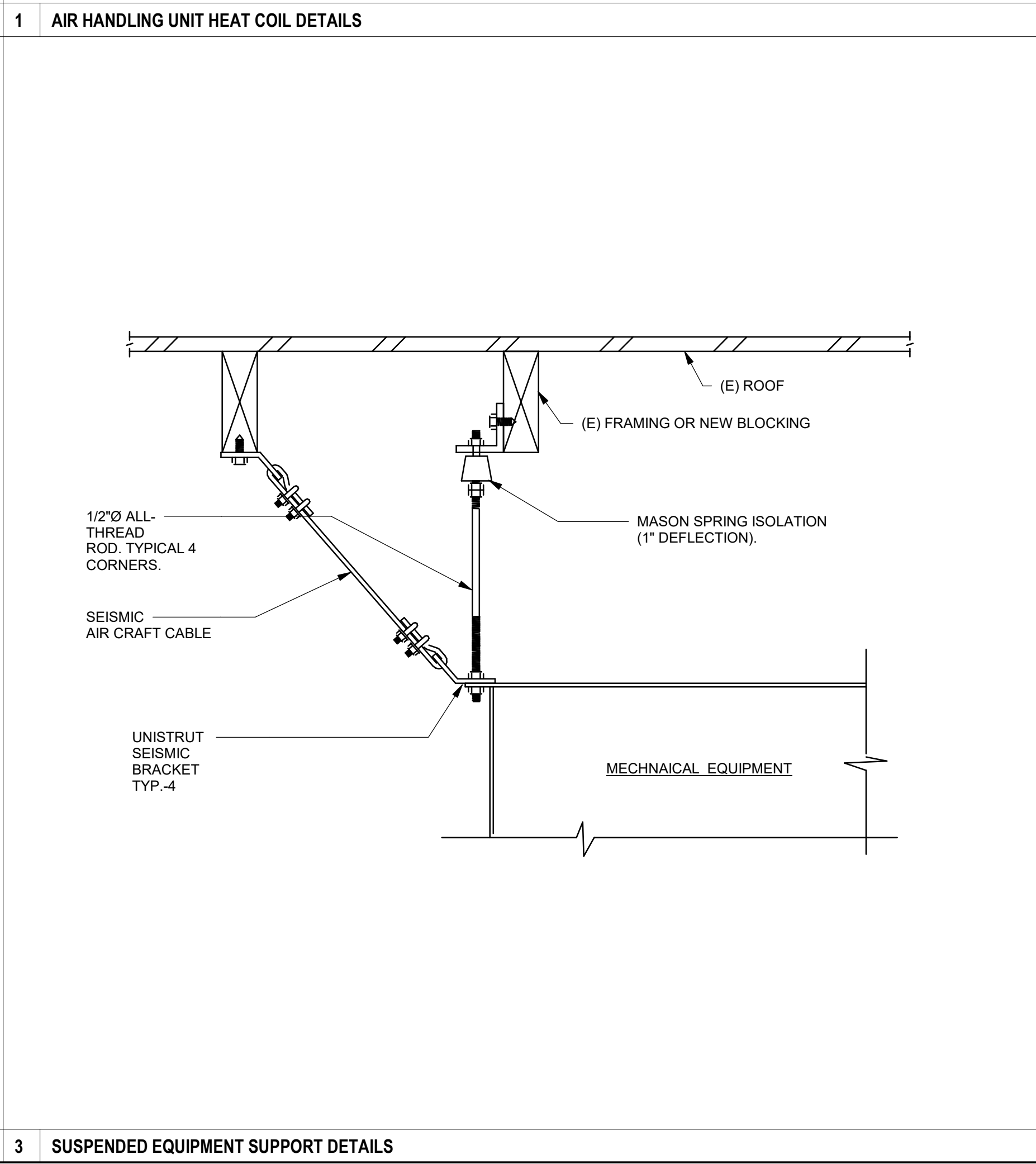
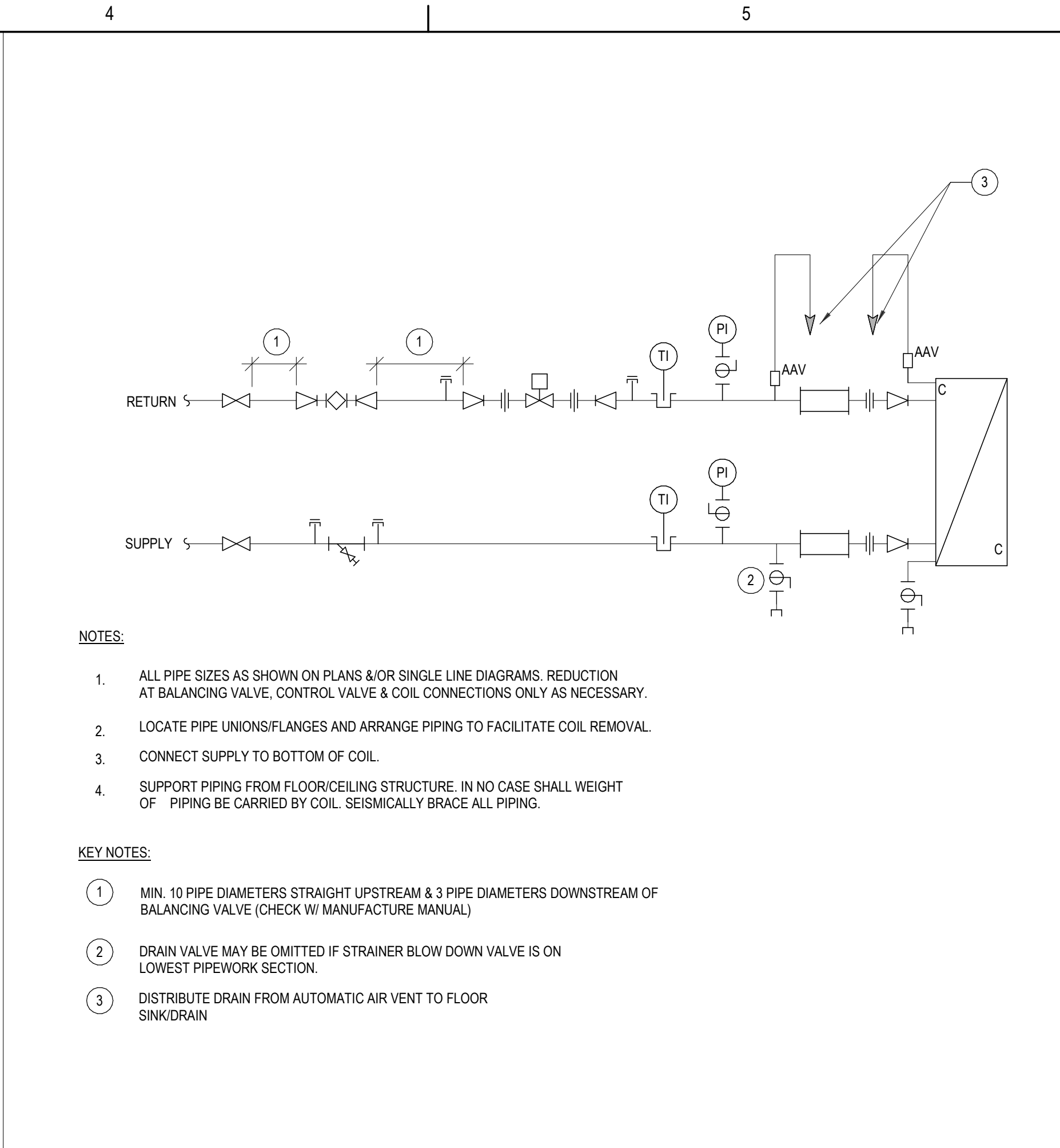
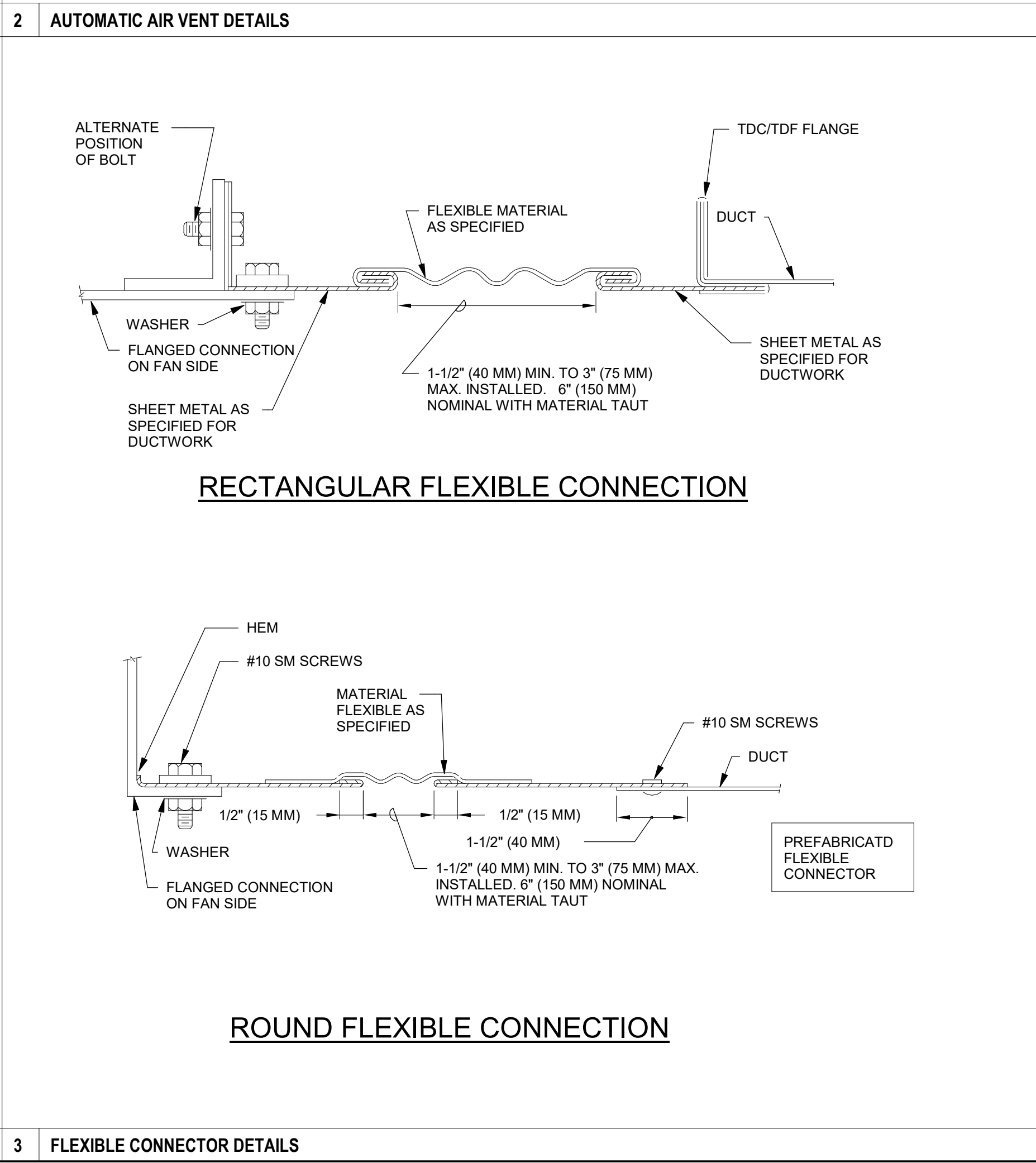
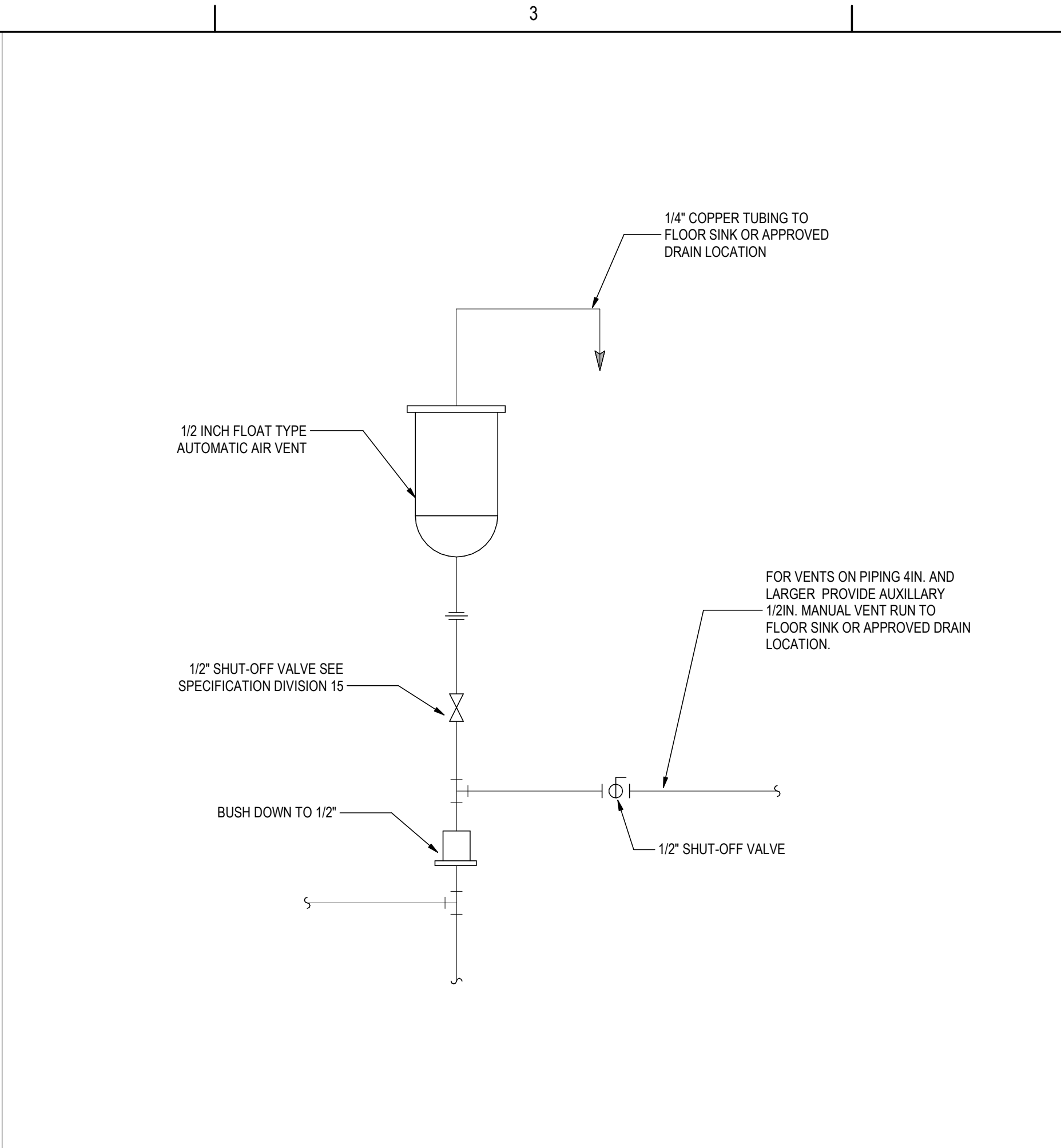
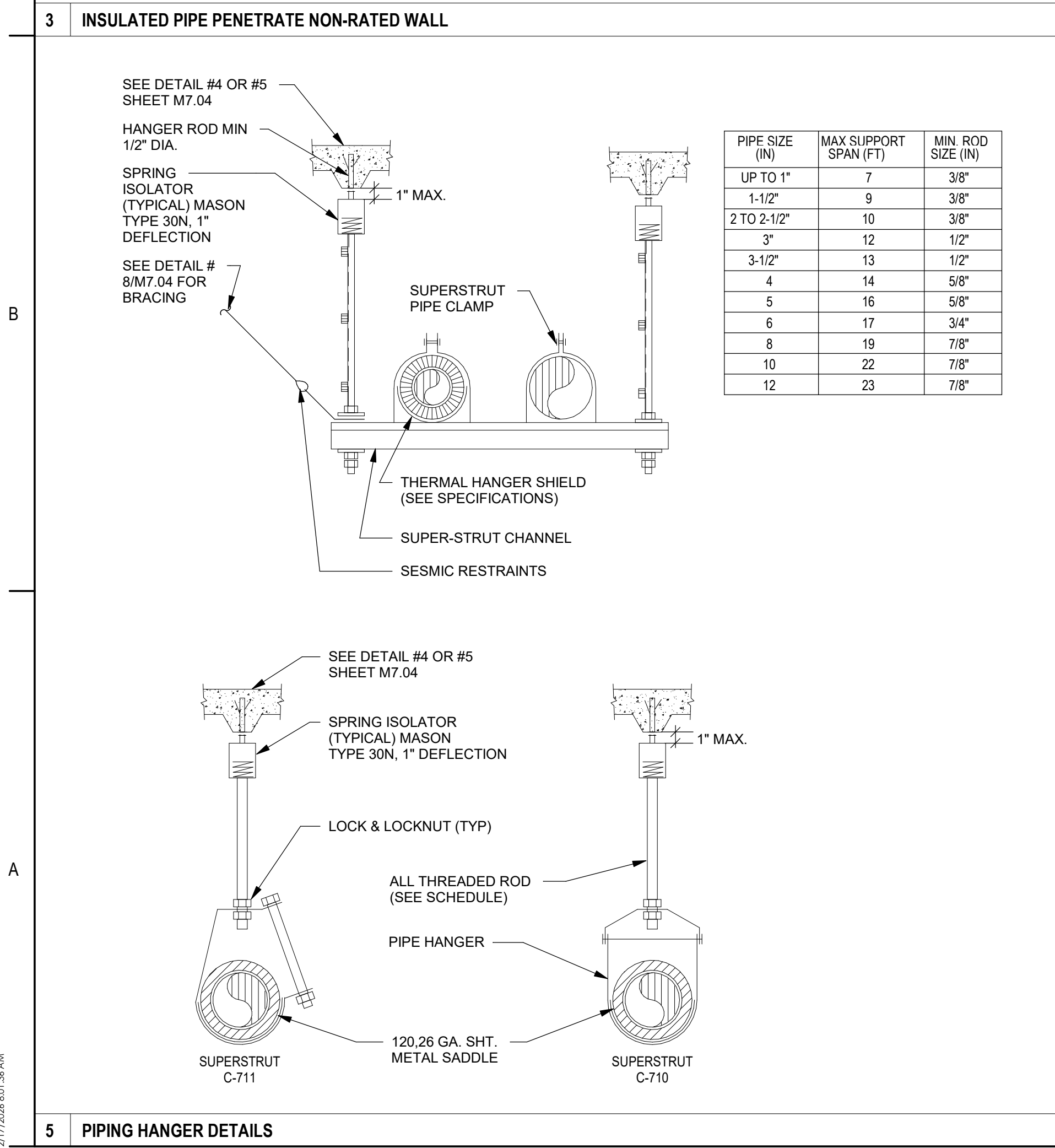
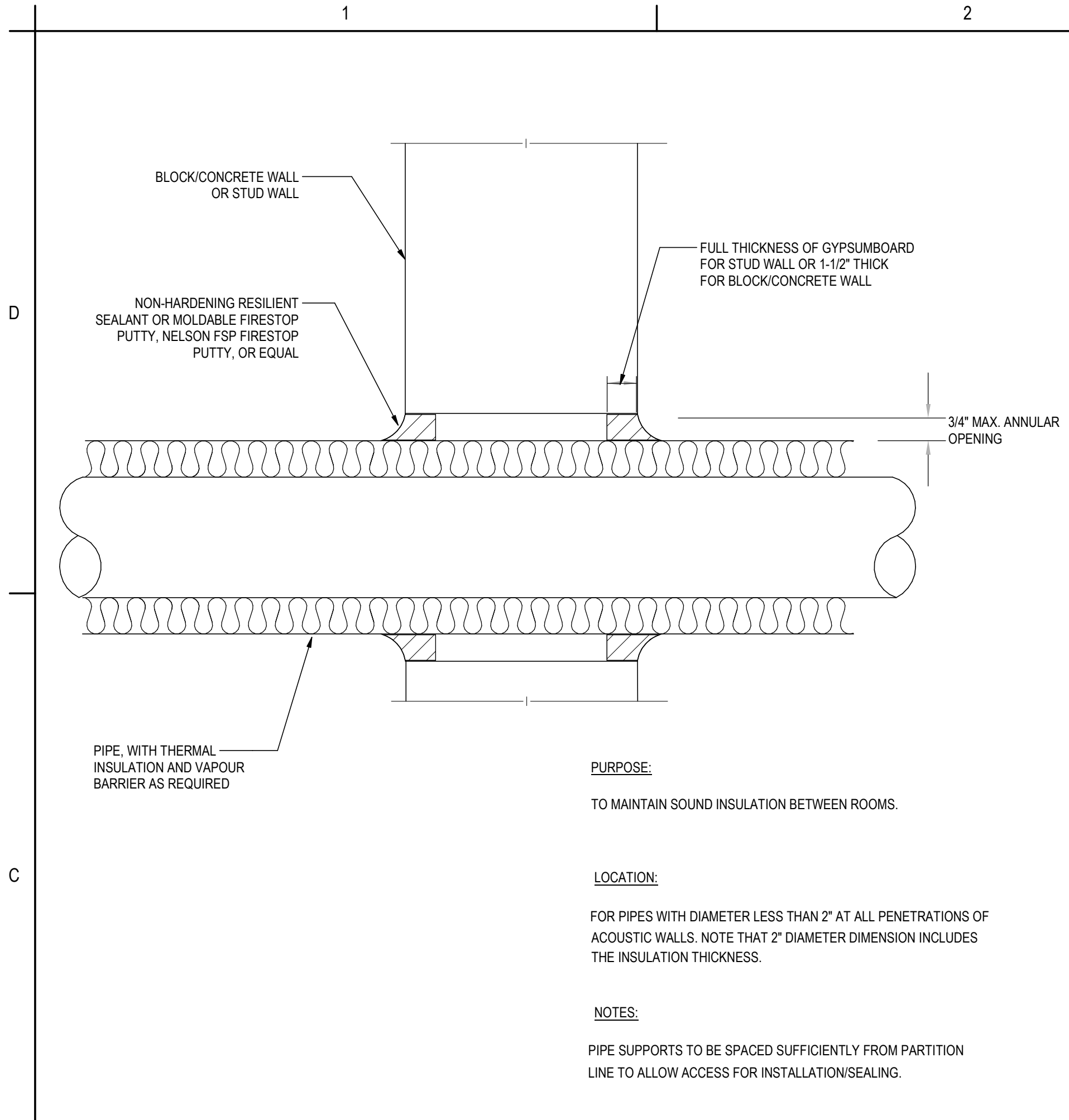
MECHANICAL DETAILS

Scale: 12" = 1'-0"

Revision: 3

NUMBER:

M6-001



1A AIR TERMINAL UNIT (VAV) CONTROL

M603

NOTE
TC CONTRACTOR SHALL PROVIDE ALL DEVICES AND CIRCUITS FOR SOURCE OF POWER AND COMMUNICATION WIRING TO EACH ATU CONTROLLER.

SEQUENCE OF OPERATIONS

GENERAL

- ALL SETPOINTS, DEADBANDS, AND TIME DELAYS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS).
- APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS.
- ATU BOX MINIMUM AND MAXIMUM DESIGN VOLUME AIRFLOW SETTINGS SHALL BE AS INDICATED ON THE ATU BOX SCHEDULE (ADJUSTABLE BY BAS OPERATOR ONLY). ATU BOXES SHALL OPERATE AS CONSTANT VOLUME WHEN THE SCHEDULED MINIMUM AND MAXIMUM DESIGN AIRFLOW SETTINGS ARE EQUAL.
- ACTUAL ATU AIRFLOW SHALL BE TOTALED IN REAL-TIME FOR BAS DISPLAY. PROVIDE TOTAL AIRFLOWS FOR EACH AHU AND TOTAL FOR THE BUILDING OF ALL AHUS.

VARIABLE AIR VOLUME AIR TERMINAL UNIT CONTROL (ATU)

A. UNOCCUPIED MODE (BUILDING OCCUPANCY SCHEDULE OFF)

- IN THIS MODE THE BUILDING TIME-OF-DAY SCHEDULER DETERMINES THE FACILITY IS IN UNOCCUPIED MODE. THEN CONTROLLER SHALL USE THE UNOCCUPIED COOLING/HEATING SETPOINTS FOR SPACE TEMPERATURE CONTROL.
- WHEN BETWEEN UNOCCUPIED HEATING AND COOLING SETPOINTS (ADJUSTABLE), THE ATU DAMPER WILL BE CLOSED AND HOT WATER REHEAT COIL CONTROL VALVE CLOSED. ATU AIRFLOW SETPOINT SHALL BE ZERO CFM.
- IF THE SPACE TEMPERATURE INCREASES TO THE UNOCCUPIED COOLING SETPOINT (ADJUSTABLE), THE ATU CONTROLLER SHALL CALL FOR AIRFLOW AND MODULATE THE ATU DAMPER UP TO MAXIMUM DESIGN CFM AIRFLOW SETPOINT (ADJUSTABLE), IN ORDER TO MAINTAIN SPACE TEMPERATURE AT SETPOINT. REHEAT COIL AND SUPPLEMENTAL HEAT CONTROL VALVES SHALL REMAIN CLOSED. WHEN SPACE TEMPERATURE FALLS SUFFICIENTLY BELOW THE UNOCCUPIED COOLING SETPOINT, THE ATU CONTROLLER SHALL CALL FOR ZERO CFM AIRFLOW.
- IF THE SPACE TEMPERATURE DECREASES TO THE UNOCCUPIED HEATING SETPOINT (ADJUSTABLE), THE ATU CONTROLLER SHALL MODULATE THE REHEAT COIL CONTROL VALVE OPEN, AND MODULATE THE ATU DAMPER TO MAINTAIN THE SPACE TEMPERATURE SETPOINT (ADJUSTABLE). WHEN SPACE TEMPERATURE INCREASES SUFFICIENTLY ABOVE THE UNOCCUPIED HEATING SETPOINT, THE ATU CONTROLLER SHALL CALL FOR ZERO CFM AIRFLOW AND TURN OFF ALL REHEAT COIL.

B. OCCUPIED MODE (BUILDING OCCUPANCY SCHEDULE ON)

- IN THIS MODE THE BUILDING TIME-OF-DAY SCHEDULER DETERMINES THE FACILITY IS IN OCCUPIED MODE. THE CONTROLLER SHALL USE THE OCCUPIED COOLING/HEATING SETPOINTS FOR SPACE TEMPERATURE CONTROL.
- WHEN BETWEEN OCCUPIED HEATING AND COOLING SETPOINTS (ADJUSTABLE), THE ATU DAMPER WILL BE AT MINIMUM CFM SETPOINT, HOT WATER REHEAT COIL CONTROL VALVE CONTROLS FOR OCCUPIED TEMPERATURE SETPOINTS.
- IF THE SPACE TEMPERATURE INCREASES TO THE OCCUPIED COOLING SETPOINT (ADJUSTABLE), THE ATU CONTROLLER SHALL CALL FOR AIRFLOW AND MODULATE THE ATU DAMPER UP TO MAXIMUM DESIGN CFM AIRFLOW SETPOINT (ADJUSTABLE), IN ORDER TO MAINTAIN SPACE TEMPERATURE AT SETPOINT. REHEAT COIL CONTROL VALVE SHALL MODULATE CLOSED. WHEN SPACE TEMPERATURE FALLS SUFFICIENTLY BELOW THE OCCUPIED COOLING SETPOINT, THE ATU CONTROLLER SHALL CALL FOR MINIMUM CFM SETPOINT.
- IF THE SPACE TEMPERATURE DECREASES TO THE OCCUPIED HEATING SETPOINT (ADJUSTABLE), THE ATU CONTROLLER SHALL MODULATE THE REHEAT COIL CONTROL VALVE OPEN, AND MODULATE THE ATU DAMPER TO MAINTAIN SPACE TEMPERATURE SETPOINT (ADJUSTABLE). WHEN SPACE TEMPERATURE INCREASES SUFFICIENTLY ABOVE THE OCCUPIED HEATING SETPOINT, THE ATU CONTROLLER SHALL CALL FOR MINIMUM CFM SETPOINT AND MODULATE REHEAT COIL CONTROL VALVE TO MAINTAIN STANDBY HEATING SETPOINT.
- ATU CONTROLLER SHALL REMAIN IN OCCUPIED MODE UNTIL THE TIME-OF-DAY SCHEDULER INDICATES UNOCCUPIED MODE.

ALL VARIABLE AIR VOLUME (VAV) OR AIR TERMINAL UNIT (ATU)'S

- THE DDC ATU CONTROLLER SHALL PERIODICALLY CALIBRATE ITS AIRFLOW SENSOR.
- ATU'S SHALL BE PROGRAMMED SUCH THAT ALL ATU BOXES SUPPLIED BY A PARTICULAR AHU CAN BE DRIVEN TO MAXIMUM AIRFLOW WITH A SINGLE COMMAND FROM THE BAS OPERATOR INTERFACE.
- ZONE SPACE TEMPERATURE SETPOINTS SHALL BE AS FOLLOWS:
 - UNOCCUPIED HEATING SPACE TEMPERATURE SETPOINT: 62° F (ADJUSTABLE)
 - STANDBY HEATING SPACE TEMPERATURE SETPOINT: 67° F (ADJUSTABLE)
 - OCCUPIED HEATING SPACE TEMPERATURE SETPOINT: 70° F (ADJUSTABLE)
 - OCCUPIED COOLING SPACE TEMPERATURE SETPOINT: 72° F (ADJUSTABLE)
 - STANDBY COOLING SPACE TEMPERATURE SETPOINT: 75° F (ADJUSTABLE)
 - UNOCCUPIED COOLING SPACE TEMPERATURE SETPOINT: 78° F (ADJUSTABLE)

DEMAND CONTROLLED VENTILATION

- EACH ATU CONTROLLER SHALL INCLUDE THE INHERENT ABILITY TO OVERRIDE THE TEMPERATURE CONTROL LOOP AND MODULATE THE TERMINAL UNIT'S DAMPER WITH THE CO2 SENSOR AND ITS ASSOCIATED LOW CO2 AND HIGH CO2 SETPOINTS (ADJUSTABLE), IN CONJUNCTION WITH THE NORMAL TEMPERATURE CONTROL LOOP. ALL TEMPERATURE CONTROL FUNCTIONS, EXCEPT AIR VOLUME CONTROL, SHALL REMAIN ACTIVE DURING THIS MODE.
- DURING THE OCCUPIED MODE, THE ATU CONTROLLER SHALL MONITOR THE SPACE CO2 SENSOR. WHEN THE SPACE CO2 LEVEL EXCEEDS 1000PPM (ADJUSTABLE), THE CONTROLLER SHALL INCREASE THE AIRFLOW AS REQUIRED TO REDUCE SPACE CO2. THE CONTROLLER (OR CONTROLLERS) MAY MODULATE THE ATU DISCHARGE AIRFLOW UP TO ITS MAXIMUM DESIGN CFM. THE ATU CONTROLLER SHALL MAINTAIN SPACE DRY BULB CONTROL BASED ON SETPOINT. MODULATION BETWEEN THE DAMPER'S CURRENT POSITION AND MAXIMUM DESIGN AIRFLOW SHALL OCCUR OVER A PERIOD OF 120 SECONDS (ADJUSTABLE).
- WHEN THE SPACE CO2 FALLS BELOW LOW CO2 SETPOINT OF 650PPM AT THIS CRITICAL ZONE, THE ATU AIRFLOW CONTROL SHALL REVERT BACK TO ITS NORMAL DAMPER CONTROL ALGORITHM AND RELEASE CONTROL OF THE ASSOCIATED AIR HANDLING UNIT OR DAMPER.
- WHEN ANY ATU IS IN DEMAND CONTROLLED VENTILATION MODE, A GRAPHICAL ICON SHALL BE ACTIVATED AT THE BAS. WHEN ANY ATU IS IN DEMAND CONTROLLED VENTILATION MODE, A GRAPHICAL ICON SHALL BE ACTIVATED AT THE BAS.

SEQUENCE OF OPERATION

GENERAL

- ALL HAND-OFF-AUTO (HOA) SWITCHES NORMALLY REMAIN IN THE AUTO POSITION AND THE HAND AND OFF POSITIONS ARE USED FOR MAINTENANCE SITUATIONS. ALL SETPOINTS, DEADBANDS, AND TIME DELAY INTERVALS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS. APPROPRIATE DEADBANDS AND TIME DELAYS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS.
- PROVIDE AND INSTALL ALL NECESSARY COMPONENTS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING, BUT NOT LIMITED TO SENSORS, RELAYS, COMMUNICATION WIRING AND CONDUIT, AND ALL NECESSARY ELECTRICAL DEVICES, WIRING, AND CONDUIT.

SCHEDULING

- THE FAN COIL UNIT SHALL HAVE SCHEDULING FUNCTIONALITY THROUGH THE DDC SYSTEM.

START UP MODE

- THE SUPPLY FAN IS ENERGIZED.

SUPPLY FAN CONTROL

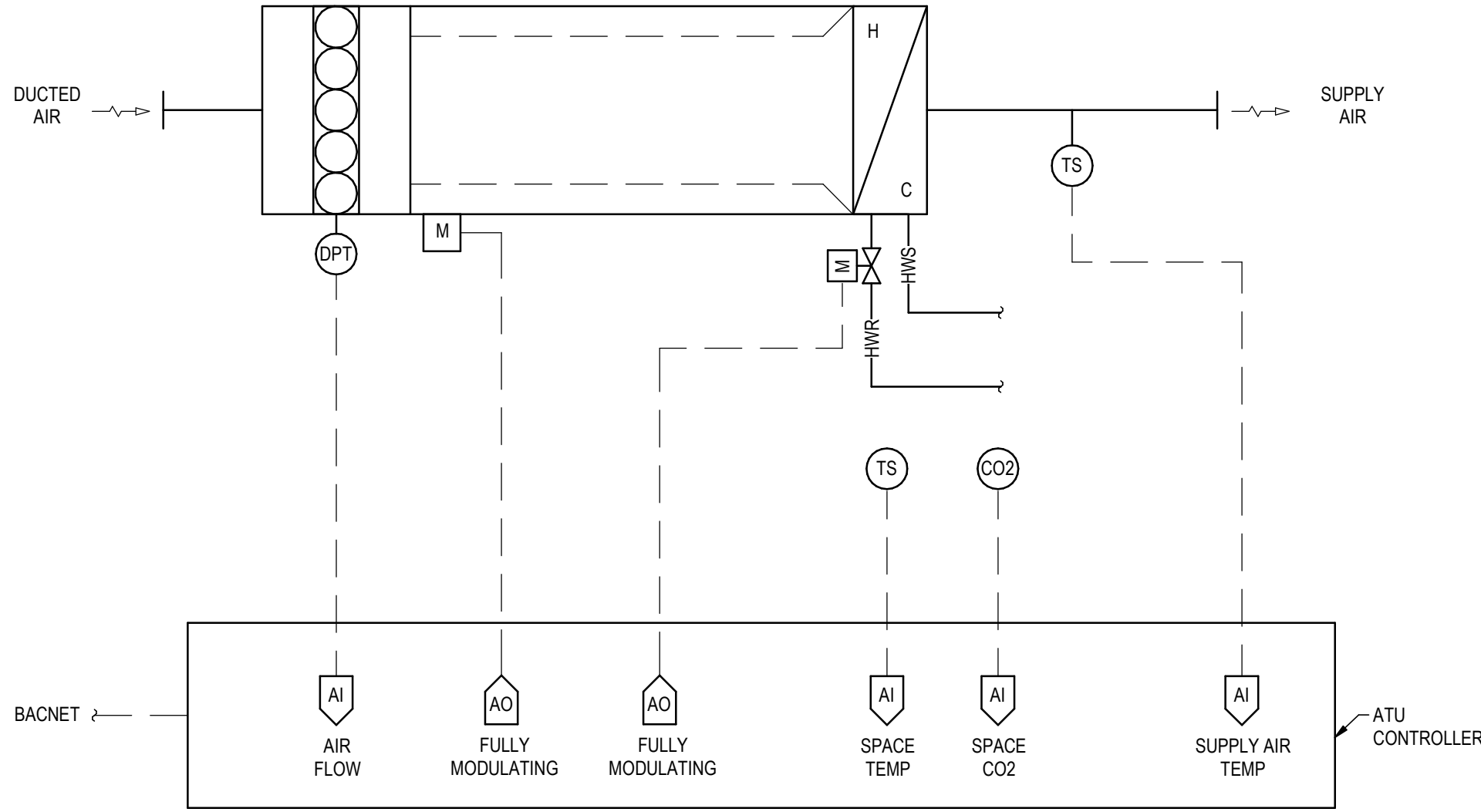
- THE SUPPLY FAN IS ENERGIZED AND RUNS CONTINUOUSLY.
- DDC MONITORS THE SUPPLY FAN THROUGH ITS CURRENT SENSOR. UPON A FAILURE, AN ALARM IS ISSUED.

FILTER MONITORING

- DDC SHALL MONITOR THE AIR FILTER PRESSURE DROP AND ISSUE A DIRTY FILTER ALARM UPON HIGH DIFFERENTIAL PRESSURE.

COOLING MODE

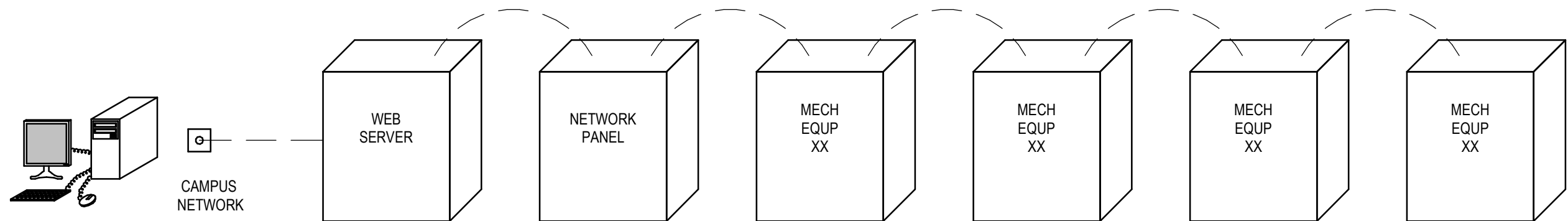
- DDC SHALL MONITOR EACH ROOM TEMPERATURE AND DISPLAY IT ON THE GRAPHICAL INTERFACE.
- DDC SHALL STAGE THE DX COOLING TO MAINTAIN ALL ROOMS BELOW COOLING SET POINT.
- SPACE TEMPERATURE SET POINT SHALL BE:
 - 72° F



SEE SCHEDULES FOR QUANTITIES AND PLANS FOR LOCATIONS

C3 DDC SYSTEM ARCHITECTURE

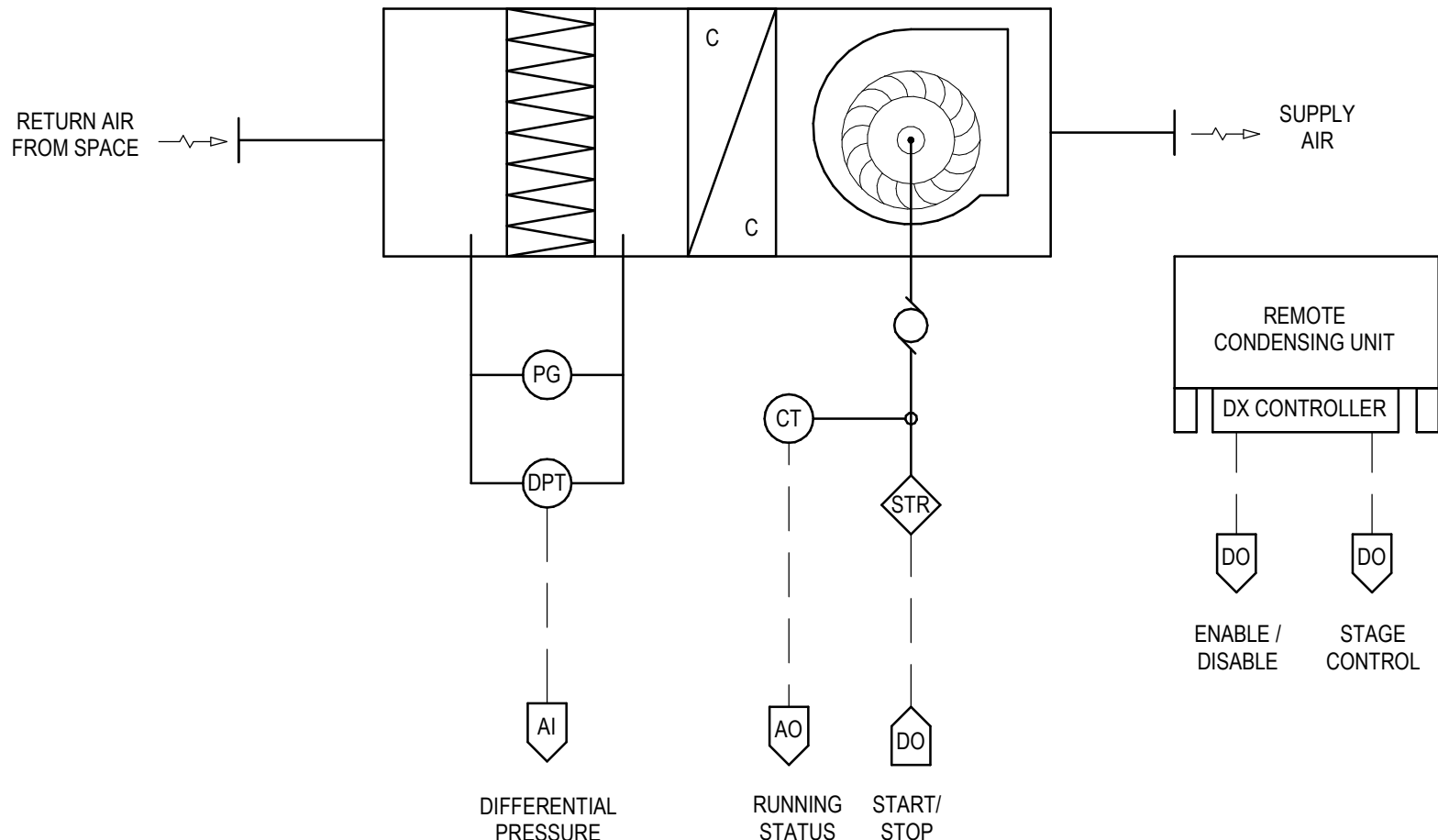
M603



DDC SYSTEM ARCHITECTURE

NOTES

- REFER TO GENERAL TEMPERATURE CONTROL REQUIREMENTS NOTES.
- PROVIDE AUXILIARY PANELS AND ALL NECESSARY COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM.
- COORDINATE EXACT LOCATIONS OF PANELS AND DEVICES IN FIELD.
- THE ARCHITECTURE IS DIAGRAMMATIC IN NATURE AND REPRESENTS THE MINIMUM NUMBER OF CONTROL PANELS FOR THE SYSTEM.
- PROVIDE SURPLUS I/O MODULES NOT LESS THAN 10% OF TOTAL PANEL POPULATION FOR ADDITIONAL POINTS.



SEE SCHEDULES FOR QUANTITIES AND PLANS FOR LOCATIONS

Consultant

Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.: 2014331970

Title

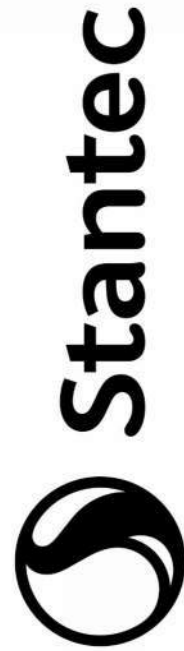
MECHANICAL
CONTROL

Scale: 12" = 1'-0"

Revision: 3

NUMBER:

M6-003



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3	100% CONSTRUCTION DOCUMENTS	2024.02.19
2	100% CONSTRUCTION DRAWINGS	2026.01.15
1	50% DESIGN DEVELOPMENT	2025.09.10
	Issued/Revision	YYYY.MM.DD
	By	Appd

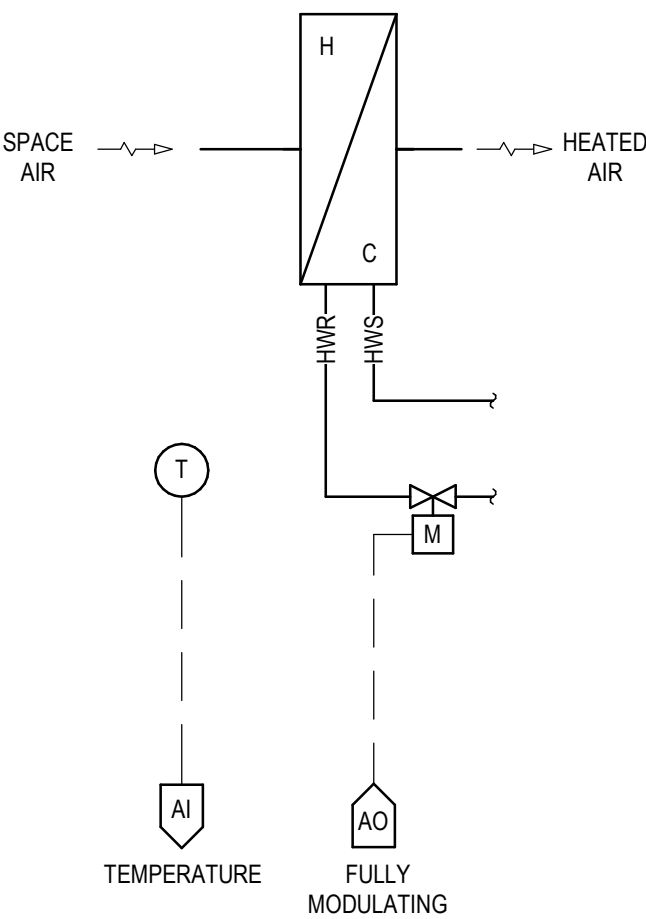


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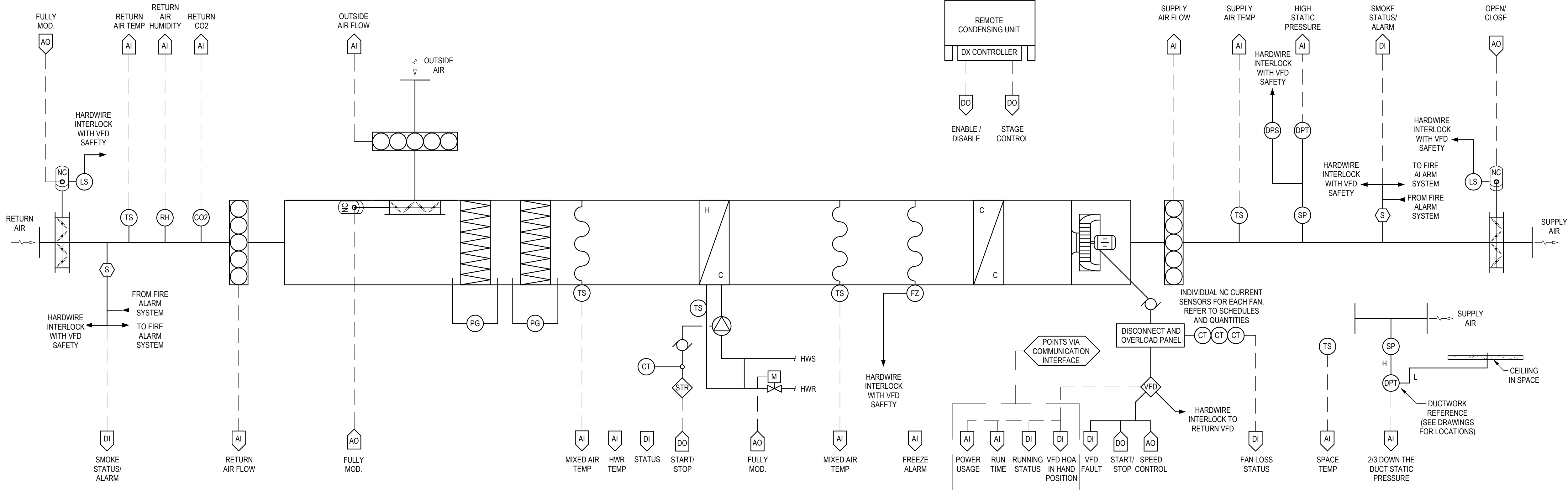
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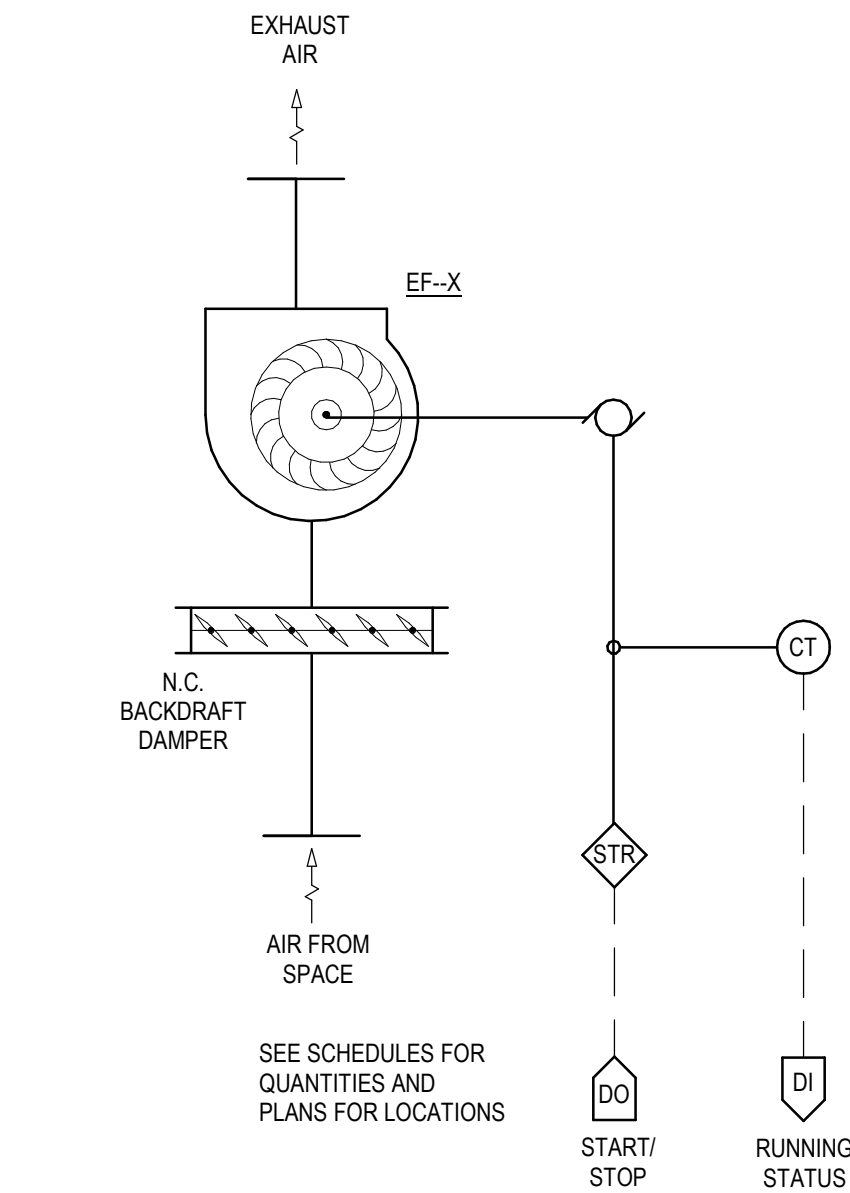
A



A1
M605
BASEBOARD CONTROL



B2
M605
DX COOLING HYDRONIC HEATING AHU CONTROL



SEQUENCE OF OPERATION

GENERAL

1. THE DDC SYSTEM SHALL HAVE START/STOP CAPABILITY OF THE EXHAUST FAN.
2. DDC SHALL MONITOR FAN STATUS. UPON A FAILURE, AN ALARM WILL BE ISSUED.
3. THE EXHAUST FAN WILL RUN CONTINUOUSLY.

A2
M605
EXHAUST FAN CONTROL

AIR HANDLING UNIT SEQUENCE OF OPERATION

- GENERAL
1. THE UNIT SHALL BE PROVIDED WITH PACKAGED CONTROLS THAT ARE CAPABLE OF SEQUENCE OF OPERATION DESCRIBED WITHIN THE CONTRACT DOCUMENTS. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING, BUT NOT LIMITED TO SENSORS, RELAYS, GATEWAYS, COMMUNICATION WIRING AND CONDUIT, AND ALL NECESSARY ELECTRICAL DEVICES, WIRING, AND CONDUIT.
 2. THE UNIT SHALL COMMUNICATE WITH THE FACILITY'S DDC SYSTEM AND SHALL REPORT ALL POINTS TO THE USER'S GRAPHICAL INTERFACE. ALL POINTS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS WILL BE DISPLAYED ON THE USER'S GRAPHIC INTERFACE.
 3. ALL HAND-OFF-AUTO (HOA) SWITCHES NORMALLY REMAIN IN THE AUTO POSITION AND THE HAND AND OFF POSITIONS ARE USED FOR MAINTENANCE SITUATIONS. ALL SETPOINTS, DEADBANDS, AND TIME DELAY INTERVALS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS. APPROPRIATE DEADBANDS AND TIME DELAYS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS.

- SCHEDULING
1. THE ENERGY RECOVERY UNIT RUNS CONTINUOUSLY UNLESS DEACTIVATED FOR MAINTENANCE OR IF A SAFETY TRIPS.
 2. THE ENERGY RECOVERY UNIT SHALL HAVE SCHEDULING FUNCTIONALITY THROUGH THE DDC SYSTEM.

- START UP MODE - OCCUPIED
1. UPON A CALL TO START, THE UNIT SHALL OPEN IT SUPPLY AIR DAMPER, RETURN AIR DAMPER, AND RECIRCULATION DAMPER.
 2. THE SUPPLY FAN IS ENERGIZED AND CONTROLLED PER THE SUPPLY FAN CONTROL.
 3. AFTER THE SUPPLY FAN HAS COMPLETED ITS START UP MODE, THE EXHAUST AIR DAMPER SHALL OPEN.
 4. AFTER THE EXHAUST AIR DAMPER HAS OPENED, THE RECIRCULATION DAMPER SHALL CLOSE AND THE OUTSIDE AIR DAMPER SHALL OPEN IN REVERSE ORDER TO MAINTAIN AIRFLOW.
 5. THE EXHAUST FAN IS ENERGIZED AND CONTROLLED PER THE EXHAUST FAN CONTROL.

- START UP MODE - UNOCCUPIED
1. UPON A CALL TO START, THE UNIT SHALL OPEN IT SUPPLY AIR DAMPER, RETURN AIR DAMPER, AND RECIRCULATION DAMPER.
 2. THE SUPPLY FAN IS ENERGIZED AND CONTROLLED PER THE SUPPLY FAN CONTROL.

- SUPPLY FAN CONTROL
1. THE SUPPLY FAN SHALL BE CONTROLLED TO MAINTAIN A DUCT STATIC SET POINT OF 1.0 INCH (ADJ). THIS MEASUREMENT IS TAKEN FROM THE SYSTEM STATIC PRESSURE SENSOR LOCATED APPROXIMATELY 2/3 OF THE DISTANCE WITHIN THE DUCT DISTRIBUTION SYSTEM. THE SYSTEM BALANCER SHALL VERIFY THE INITIAL SET POINT BASED ON THE BALANCING PROCEDURES IDENTIFIED IN THE PROJECT SPECIFICATION.
 2. UPON A COMMAND TO START, THE ENERGY RECOVERY UNIT CONTROLLER RAMPES THE SUPPLY FAN ARRAY VFD TO THE SUPPLY FAN ARRAYS MINIMUM SPEED OVER 30 SECONDS (ADJ). THE VFD RAMPES THE SPEED OF THE FAN ARRAY SLOWLY AND LINEARLY OVER 120 SECONDS (ADJ) TO REACH ITS SET POINT.

THE ENERGY RECOVERY UNIT CONTROLLER RAMPES THE SUPPLY FAN ARRAY VFD TO MAINTAIN DUCT STATIC SET POINT.

A4
M605
AIR HANDLING UNIT SEQUENCE OF OPERATION

- FILTER MONITORING
1. THE PACKAGED POOL DEHUMIDIFICATION UNIT SHALL MONITOR THE OUTSIDE AND RETURN AIR FILTER PRESSURE DROPS AND ISSUE A DIRTY FILTER ALARM UPON HIGH DIFFERENTIAL PRESSURE.

HEATING MODE

THE PACKAGED UNIT SHALL MODULATE THE UNIT'S GAS BURNER TO MAINTAIN THE HEATING MODE'S SPACE TEMPERATURE SET POINT.

- FROST CONTROL
1. WHENEVER ENERGY RECOVERY IS ACTIVE, THE PACKAGED DEHUMIDIFICATION UNIT SHALL MODULATE THE PLATE FACE AND BYPASS DAMPERS TO MAINTAIN A MINIMUM ADJUSTABLE EXHAUST LEAVING AIR TEMPERATURE SET POINT. TO PREVENT FROST FORMATION ON THE PLATE.

- ECONOMIZER
1. WHENEVER OUTSIDE AIR TEMPERATURE IS BETWEEN 50 DEGREES (ADJ) AND 70 DEGREES (ADJ), THE FACE AND BYPASS DAMPERS SHALL MODULATE OVER 120 SECONDS (ADJ) TO BYPASS THE ENERGY RECOVERY DEVICE.

- COOLING MODE
1. THE UNIT CONTROLLER SHALL STAGEMODULATE THE UNIT'S REFRIGERATION SYSTEM TO MAINTAIN A DISCHARGE AIR TEMPERATURE SET POINT.
 2. THE UNIT CONTROLLER SHALL MONITOR RETURN TEMPERATURE AND SHALL RESET THE SUPPLY AIR TEMPERATURE UP 1 DEGREE (ADJ) EVERY 30 MINUTES (ADJ) IF THE RETURN HUMIDITY IS BELOW SET POINT. IF THE RETURN AIR TEMPERATURE RISES ABOVE SET POINT FOR 30 MINUTES (ADJ), THE SUPPLY AIR TEMPERATURE SET POINT SHALL BE RESET 1 DEGREE EVERY 30 MINUTES (ADJ).

- SAFETY CONTROL
1. IF SMOKE IS DETECTED IN THE AIRSTREAM BY A DUCT SMOKE DETECTOR OR THE FIRE ALARM ZONE MODULE INDICATES A ZONE ALARM, THE UNIT SHALL BE SHUTDOWN. REFER TO SHUTDOWN MODE.
 2. IF A DISCHARGE TEMPERATURE OF 45 DEGREES (ADJ) IS REACHED, THE CONTROLLER SHALL ISSUE AN ALARM.
 3. IF A CONTROLLING SENSOR IS DETERMINED TO HAVE FAILED THAT WOULD DAMAGE THE EQUIPMENT OR CAUSE INAPPROPRIATE CONDITIONS IN THE SPACE, THE UNIT SHALL BE SHUT DOWN. REFER TO SHUTDOWN MODE.
 4. IF A HIGH LIMIT OF 5.5 INCHES (ADJ) OR LOW PRESSURE LIMIT OF NEGATIVE 3.5 INCHES (ADJ) IS REACHED, THE UNIT SHALL BE SHUT DOWN. REFER TO SHUTDOWN MODE.

- SHUTDOWN MODE CONTROL
1. UPON A SHUTDOWN COMMAND FROM THE DDC SYSTEM OR A SAFETY CONTROL DEVICE COMMAND, THE UNIT SHALL COMMENCE A SHUT DOWN MODE.
 2. THE HEATING AND COOLING SYSTEM SHALL CYCLE OFF.
 3. THE SUPPLY AND EXHAUST FANS ARE COMMANDED OFF.
 4. THE RECIRCULATION DAMPER SHALL OPEN FULLY AND THE OUTSIDE AIR DAMPER SHALL CLOSE.
 5. AFTER A 5 MINUTE DELAY (ADJ), THE DISCHARGE AIR DAMPER SHALL CLOSE.
- SET POINTS
- | | |
|---|--------|
| A. UNOCCUPIED HEATING DISCHARGE AIR TEMPERATURE SET POINT | 60°F |
| B. OCCUPIED HEATING DISCHARGE AIR TEMPERATURE SET POINT | 55°F |
| C. OCCUPIED COOLING DISCHARGE AIR TEMPERATURE SET POINT | 55°F |
| D. MAXIMUM RETURN AIR RELATIVE HUMIDITY | 50% RH |

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Permit/Seal



2026.02.19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

MECHANICAL
CONTROL

Scale: 12" = 1'-0"

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NUMBER:

M6-005



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A

GENERAL SYMBOLS

ELECTRICAL EQUIPMENT

ELECTRICAL PANEL OR EQUIPMENT CABINET
ELECTRICAL PANEL OR EQUIPMENT CABINET
(RECESSED)
ELECTRICAL EQUIPMENT CONNECTION
COMBINATION MOTOR STARTER / DISCONNECT

RECEPTACLES

SIMPLEX RECEPTACLE, 120V
SIMPLEX RECEPTACLE, 120V, CEILING MOUNTED
DUPLEX RECEPTACLE, 120V
DUPLEX RECEPTACLE, 120V, CEILING MOUNTED
DOUBLE DUPLEX RECEPTACLE, 120V
DOUBLE DUPLEX RECEPTACLE, 120V, CEILING
MOUNTED
COMBINATION POWER (120V) AND COMMUNICATION
RECEPTACLE, FLOOR BOX

RECEPTACLE TYPES

GROUND FAULT CIRCUIT INTERRUPTER
ISOLATED GROUND
WEATHER RESISTANT COVER

DETECTION DEVICES

PULL STATION

NOTIFICATION APPLIANCES

HORN AND STROBE LIGHT, CEILING MOUNTED
HORN AND STROBE LIGHT, WALL MOUNTED
DOOR HOLD

RACEWAYS

JUNCTION BOX, CEILING OR ABOVE CEILING MOUNTED

JUNCTION BOX, WALL MOUNTED

TELECOM OUTLETS

OUTLET
OUTLET, CEILING MOUNTED
OUTLET, MOUNTED IN MULTI-SERVICE CEILING BOX
OUTLET, MOUNTED IN MULTI-SERVICE FLOOR BOX

TELECOM OUTLET TYPES

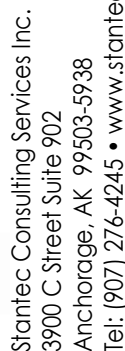
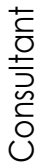
INDICATES QUANTITY OF DATA JACKS, PULLSTRING ALWAYS PROVIDED. DEFAULT OF 3 JACKS.

ELECTRONIC SECURITY

CCTV CAMERA, CEILING MOUNTED, TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FOR FUTURE CCTV CAMERA

FUTURE CARD READER, TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FOR FUTURE CARD READER

ELECTRONIC LOCK



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3	100% CONSTRUCTION	2024.02.19
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	By	Approved
	Issued/Revision	

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Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970
Title

ELECTRICAL LEGEND,
LIGHT FIXTURE
SCHEDULE AND NOTES

Scale: 12" = 1'-0"

Revision: 3

NUMBER

EO-001



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ED-102B

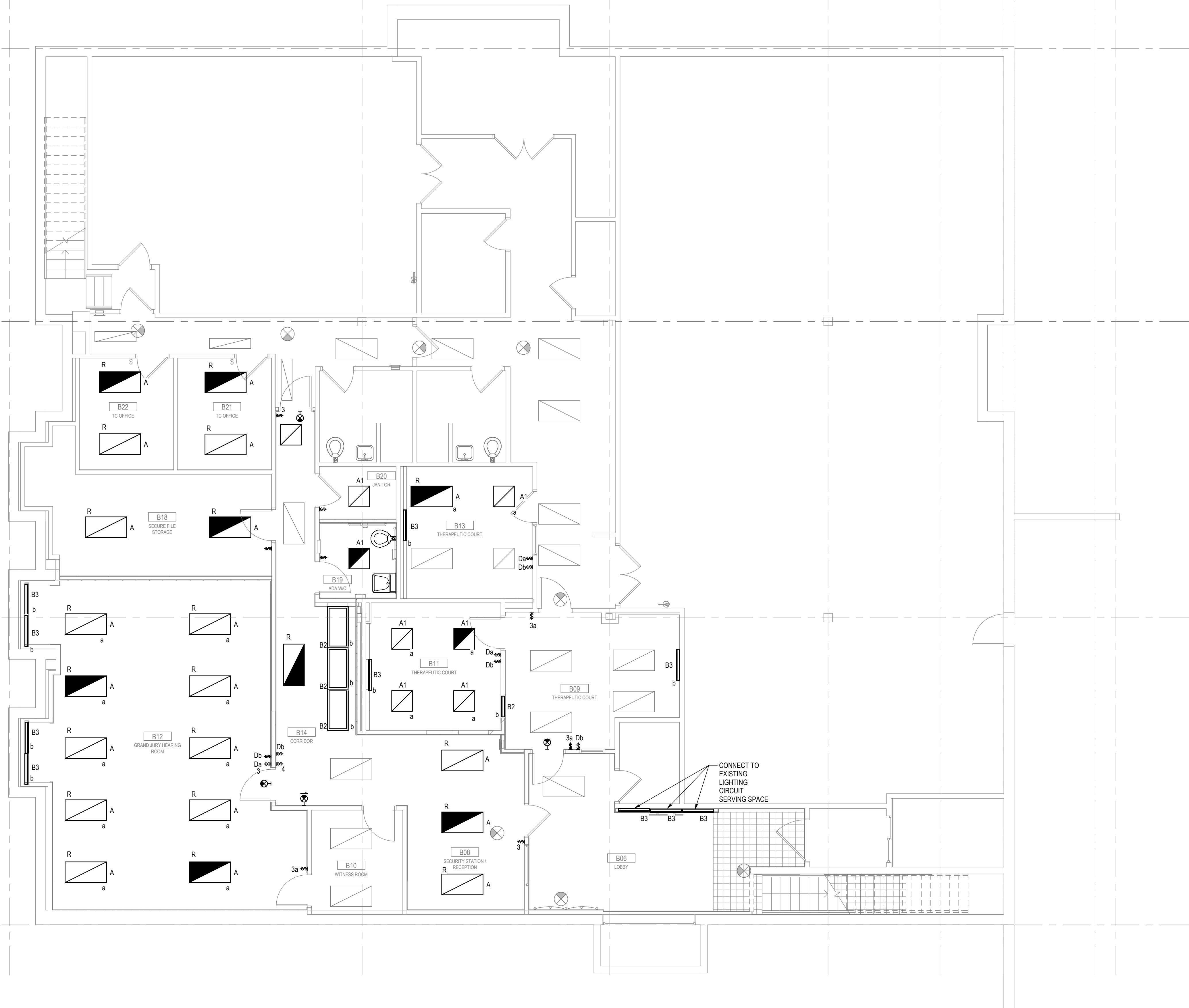
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ORIGINAL SHEET - ANSI D

1
E1-101B

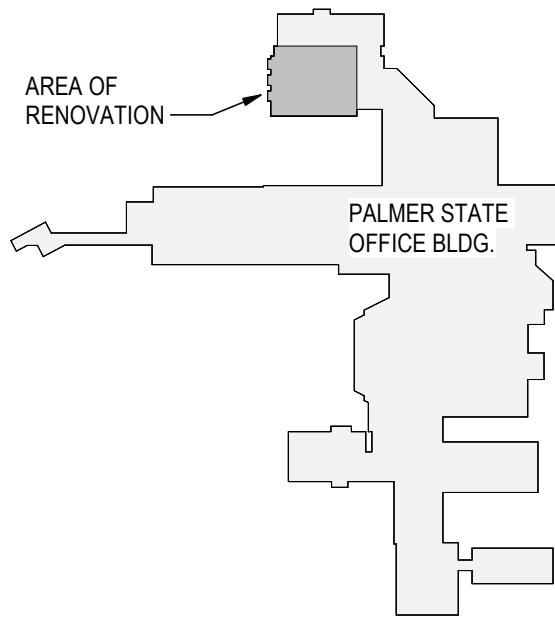
BASEMENT LIGHTING PLAN

3/16" = 1'-0"



LIGHTING GENERAL NOTES

1. RELOCATE SPRINKLER HEADS AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT.
2. LIGHTS CONNECTED TO PANEL 0ANP1 LOCATED IN MECH FAN B05 (SEE E1-102B).
3. REUSE RELOCATED (R) LIGHT FIXTURES WHERE PRACTICAL AND PROVIDE NEW LIGHT FIXTURES AS REQUIRED. EXISTING AND NEW (TYPE A & A1) LIGHT FIXTURES ARE THE SAME MODEL.
4. REUSE EXISTING LIGHTING CIRCUITS WHERE PRACTICAL AND PROVIDE NEW LIGHTING CIRCUITS AS REQUIRED.
5. CONNECT NEW LIGHT FIXTURES TO NEAREST LIGHTING CIRCUIT. VERIFY CIRCUIT AVAILABLE CAPACITY.
6. ALL EXIT SIGN FIXTURES SHALL BE TYPE 'E' (SEE LIGHT FIXTURE SCHEDULE), UNLESS OTHERWISE NOTED.



KEY PLAN - PSOB BASEMENT

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Alaska Court System

Palmer Courthouse
Renovation &
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515 EAST DAHLIA AVENUE
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Project No.:2014331970

Title

ELECTRICAL LIGHTING
PLAN

Scale:As indicated

Revision:3

NUMBER:

E1-101B



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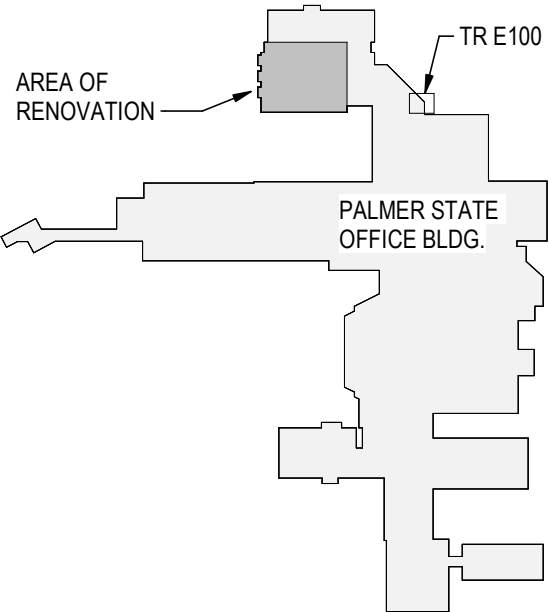
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1	50% DESIGN DEVELOPMENT DRAWINGS			2025.09.10
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STATE OF ALASKA
49TH
Corey L. Rogers
COREY L. ROGERS
EE-107702
02/19/2026
REGISTERED PROFESSIONAL ENGINEER

515 EAST DAHLIA AVENUE
PALMER, AK 99645

ELECTRICAL POWER AND SIGNAL PLAN

NUMBER:

E1-102B

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1
E1-102B

BASEMENT POWER AND SIGNAL PLAN

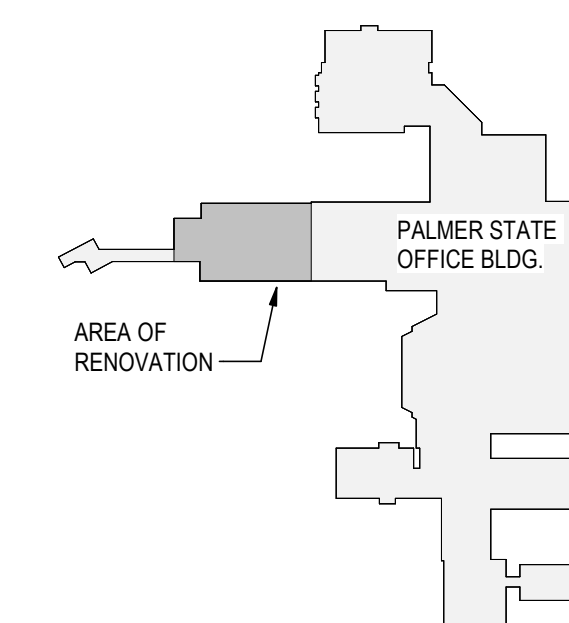
$$3/16'' = 1'-0''$$

ORIGINAL SHEET - ANSI D

1. LIGHTS CONNECTED TO PANEL 1CNWA LOCATED IN ELEC 108.
2. REUSE RELOCATED LIGHT FIXTURES AS PRACTICAL AND PROVIDE NEW LIGHT FIXTURES AS REQUIRED.
3. ALL EXIT SIGN FIXTURES SHALL BE TYPE 'E' (SEE LIGHT FIXTURE SCHEDULE) UNLESS OTHERWISE NOTED.
4. REUSE EXISTING LIGHTING CIRCUITS AS PRACTICAL PROVIDE NEW WHERE REQUIRED.
5. ADJUST SWITCH ZONING OF EXISTING LIGHTS IN THIS AREA FOR NEW ROOM ARRANGEMENT.

Permit/Seal

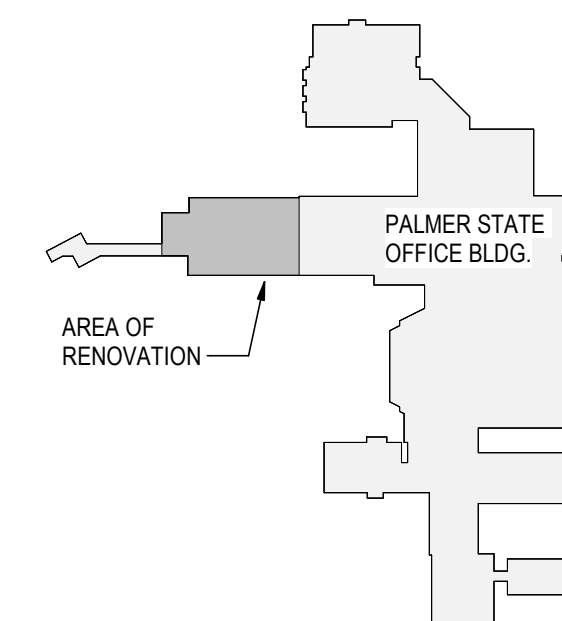
E1-101C



KEY PLAN

1 NEW LIGHTING PLAN
E1-101C 1/8" = 1'-0"

- 1 RECEPTACLES ARE CONNECTED TO PANEL 1CNP4 LOCATED IN ELEC 108.
REUSE EXISTING CIRCUITS OR PROVIDE NEW AS REQUIRED.
- 2 ROUTE DATA SYSTEMS BACK TO IDF 12. CONFIRM ROOM SERVICES AREA.
- 3 PROVIDE RECESSED DIE-CAST 1X6 AND 3/4" CONDUIT FROM CARD READER
AND CAMERA LOCAL MOUNTING TO THE CEILING. CARD READERS
AND CAMERAS INSTALLATION PROVIDED BY SEPARATE CONTRACTOR.
- 4 PROVIDE A NEW 20A/1P IN PANEL 1CNP4 LOCATED IN ELEC E108. CONNECT
CIRCUIT BREAK TO AHU-C1 USING #12 @ .12% / 12".
- 5 PROVIDE NEW 100A/3P CIRCUIT BREAKER IN EXISTING PANEL 1CNP4.
CONNECT NEW CIRCUIT BREAKER TO THE MAIN BUS @ #12 @ .12%. PANEL
M LOCATED IN THE MODULE BUILDING (SEE SHEET E1-102M). RISE
CONDUIT AND CONDUCTORS THRU CRAWL SPACE.



1 NEW POWER AND SIGNAL PLAN
E1-102C 1/8" = 1'-0"

[illegible]

Permit/Seal



Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970
Title

ELECTRICAL POWER
AND SIGNAL PLANS

Scale: As indicated

Revision: **3**

NUMBER

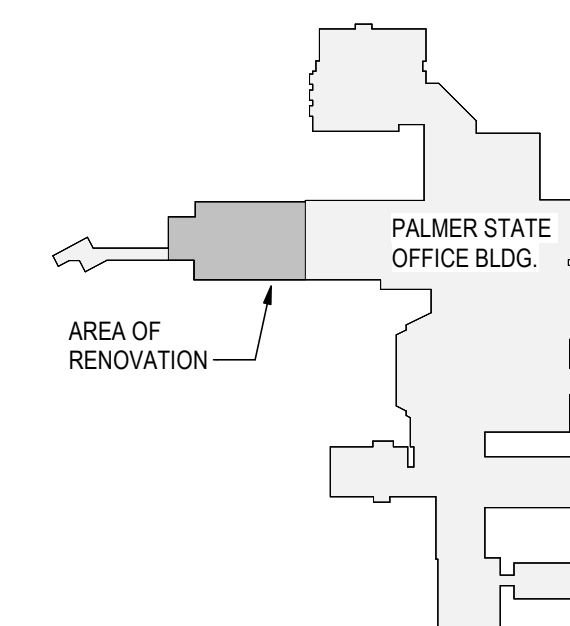
E1-102C

STATE OF ALASKA
49TH
Corey L. Rogers
COREY L. ROGERS
EE-107702
02/19/2026
REGISTERED PROFESSIONAL ENGINEER

515 EAST DAHLIA AVENUE
PALMER, AK 99645

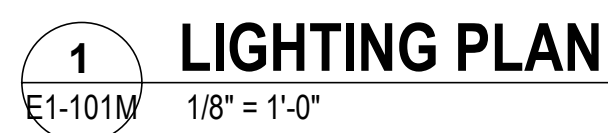
ED-101C

1. LIGHTS CONNECTED TO PANEL 1CNHA LOCATED IN ELEC 108.
2. REUSE RELOCATED LIGHT FIXTURES WHERE PRACTICAL AND PROVIDE NEW LIGHT FIXTURES AS REQUIRED. EXISTING AND NEW LIGHT FIXTURES ARE THE MODEL (N & N1)
3. REUSE CIRCUITING HOMERUNS AS PRACTICAL FOR NEW LIGHTING LAYOUT.



KEY PLAN

ED-101C 1/8" = 1'-0"





KEY PLAN

1. PROVIDE NEW 100A/3P CIRCUIT BREAKER IN EXISTING PANEL 1CNP4 (SEE E1-102C NOTE 5). CONNECT NEW CIRCUIT BREAKER USING NEW 4#4/0, #4G, 2-1/2" C TO PANEL M. ROUTE CONDUIT AND CONDUCTORS BELOW GRADE.

Stante:

Name: M

Location: Space 25

Supply From:

Serves:

Volts: 208Y/120V

Phases: 3

Wires: 4

Mains Type: MCB

Mains Rating: 225 A

Lugs:

Type: NEMA 1

AIC Rating: 10 K

Mounting: Surface

Enclosure: Type 1

Notes:

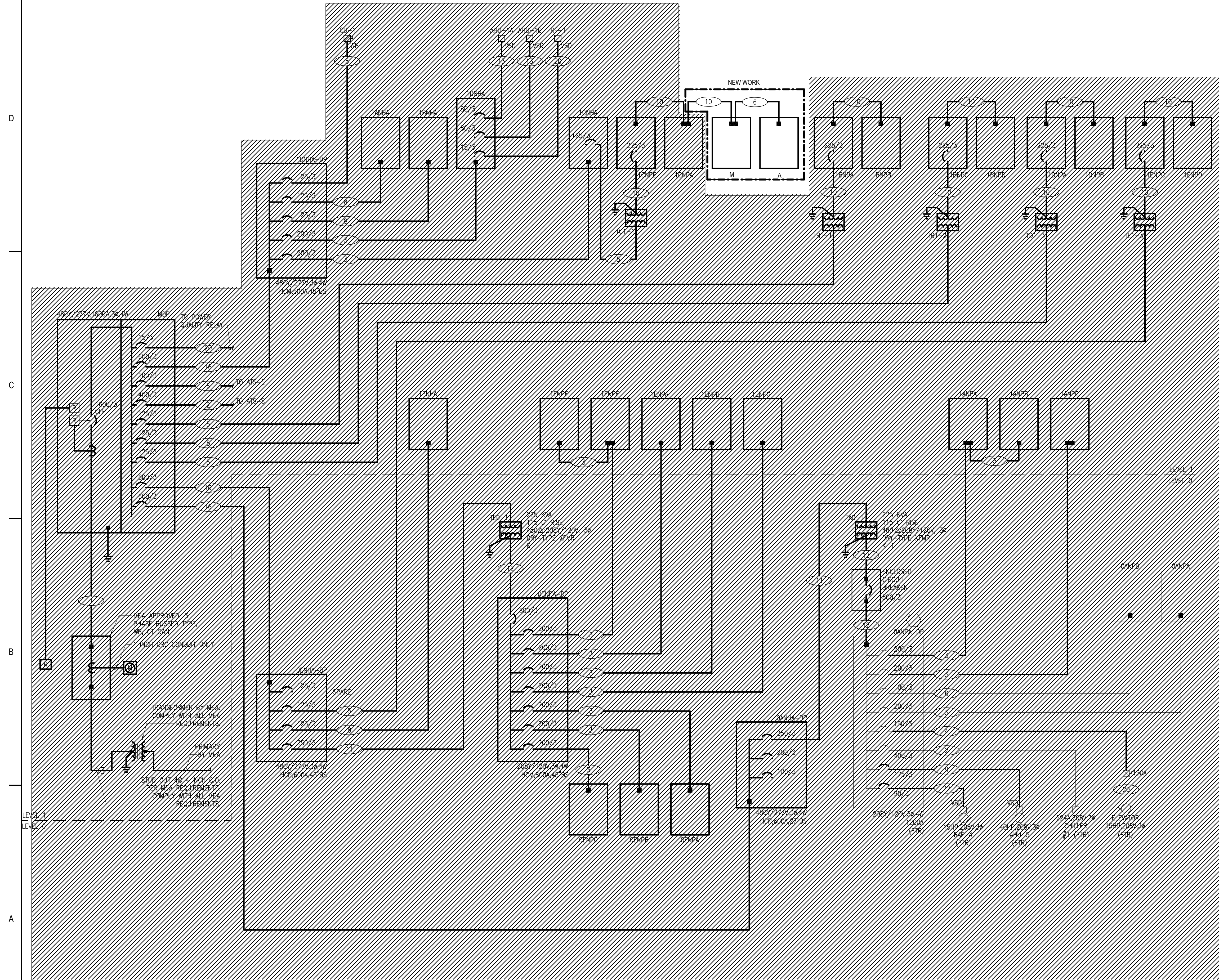
CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	B-M-2	15 A	1		600	600						1	15 A	B-M-1	2
3	HWP-M-1	15 A	1				200	200				1	15 A	HWP-M-2	4
5	HWP-M-3	15 A	1						200	200		1	15 A	HWP-M-4	6
7	GF-M-1	15 A	1		60	100						1	15 A	EF-M-1	8
9	AHU-1	20 A	2				3120	6656				2	40 A	CJ-M-1	10
11	--	--	--	--					0	0	--	--	--	--	12
13	CJ-M-2	20 A	2		4160	2340						2	15 A	CJ-B-1	14
15	--	--	--	--			0	0			--	--	--	--	16
17	CJ-C-1	25 A	2						3900	0	--	1	20 A	Spare	18
19	--	--	--	--	0	0					--	1	20 A	Spare	20
21	PANEL A	100 A	3				2867	0			--	1	20 A	Spare	22
23	--	--	--	--					2036	0	--	1	20 A	Spare	24
25	--	--	--	--	976										26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
Total Load:					8.84 kVA		13.04 kVA		6.34 kVA						
Total Amps:					77 A		112 A		53 A						
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals					
HVAC				22336 VA		100.00%		22336 VA							
Lighting				1199 VA		125.00%		1498 VA		Total Conn. Load: 28215 VA					
Receptacle				4680 VA		100.00%		4680 VA		Total Est. Demand: 28514 VA					
										Total Conn.: 78 A					
										Total Est. Demand: 79 A					

CB Legend (blank = circuit breaker):

G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

E1-102M



FEEDER SCHEDULE

- 1 FOUR SETS: 3-1/2" C., 4-#600 KCMIL + 1-#4/0
- 2 TWO SETS: 2" C., 4-#3/0 + 1-#2 GRND
- 3 2-1/2" C., 4-#3/0 + 1-#6 GRND
- 4 2" C., 4-#1/0 + 1-#6 GRND
- 5 1-1/4" C., 3-#1 + 1-#6 GRND
- 6 1-1/4" C., 4-#2 + 1-#8 GRND
- 7 2" C., 5-#1/0 + 1-#6 GRND
- 8 1-1/2" C., 4-#1 + 1-#6 GRND
- 9 1-1/2" C., 3-#2/0 + 1-#6 GRND
- 10 2-1/2" C., 4-#4/0 + 1-#4 GRND
- 11 2-1/2" C., 3-#400 KCMIL + 1-#2 GRND
- 12 TWO SETS: 3" C., 4-#500 KCMIL + 1-#1/0 GRND
- 13 1" C., 3-#4 + 1-#8 GRND
- 14 3/4" C., 3-#8 + 1-#10 GRND
- 15 3" C., 4-#350 KCMIL + 1-#4 GRND
- 16 TWO SETS: 3" C., 4-#350 KCMIL + 1-#1 GRND
- 17 NOT USED
- 18 NOT USED
- 19 NOT USED
- 20 3/4" C., 3-#12 + 1-#12 GRND
- 21 TWO SETS: 2-1/2" C., 4-#2/0 + 1-#2 GRND
- 22 1-1/4" C., 4-#2 + 1-#6 GRND
- 23 3/4" C., 3-#8 + 1-#10 GRND

BRANCH CIRCUIT PANEL NAMING CONVENTION

- 1ASPA LETTER DESIGNATES NUMBER IN SEQUENCE
- 1ASPA LETTER DESIGNATES VOLTAGE (H=480V, P=208V)
- 1ASPA LETTER DESIGNATES DISTRIBUTION SYSTEM (N=NORMAL, S=STANDBY, E=EMERGENCY)
- 1ASPA LETTER DESIGNATES AREA (A=AREA A, B=AREA B, ECT.)
- 1ASPA NUMERAL DESIGNATES FLOOR (0=LEVEL 0, 1=LEVEL 1)

DISTRIBUTION PANEL NAMING CONVENTION

- 1ANPA-DP: LETTER DESIGNATES NUMBER IN SEQUENCE
- 1ANPA-DP: LETTER DESIGNATES VOLTAGE (H=480V, P=208V)
- 1ANPA-DP: LETTER DESIGNATES DISTRIBUTION SYSTEM (N=NORMAL, S=STANDBY, E=EMERGENCY)
- 1ANPA-DP: LETTER DESIGNATES AREA (A=AREA A, B=AREA B, ECT.)
- 1ANPA-DP: NUMERAL DESIGNATES FLOOR (0=LEVEL 0, 1=LEVEL 1)

TRANSFORMER NAMING CONVENTION

- TA1-1: NUMBER DESIGNATES NUMBER IN SEQUENCE
- TA1-1: NUMBER DESIGNATES FLOOR (0=BASEMENT, 1=FIRST FLOOR)
- TA1-1: LETTER DESIGNATES AREA (A=AREA A, B=AREA B, ECT.)

Consultant

Permit/Seal



Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970
Title

ELECTRICAL RISER
DIAGRAM

Scale: 12" = 1'-0"
Revision:3
NUMBER:

E1-300M



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Anchorage, AK 99503-5938
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The Contractor shall verify and be responsible for all drawings, including but not limited to, the drawing - any errors or omissions shall be reported to Stantec, without delay.

1. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2021 INTERNATIONAL FIRE CODE, 2021 INTERNATIONAL PLUMBING CODE, 2021 INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE CODES & REGULATIONS.
2. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL EQUIPMENT AND PLUMBING FIXTURES.
3. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH STRUCTURES WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
4. COORDINATE AND VERIFY EXACT LOCATION, SIZE, POINT OF CONNECTIONS AND ELEVATIONS OF UTILITY SERVICE PIPING BEFORE TRENCHING OR INSTALLATION.
5. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING, VALVES OR EQUIPMENT ARE INDICATED.
6. ALL VALVES SHALL BE LOCATED TO BE READILY ACCESSIBLE. ACCESS PANELS SHALL BE INSTALLED WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS OR NON-REMOVABLE CEILINGS.
7. COORDINATE ALL PIPING AND EQUIPMENT LOCATIONS WITH OTHER TRADES.
8. OFFSET ALL VERTICAL PIPES TO AVOID BEAMS & ANY OTHER STRUCTURAL OBSTRUCTIONS NOT SHOWN ON PLANS.
9. BECAUSE OF THE SMALL SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE PLUMBING SYSTEM. THE CONTRACTOR WILL CAREFULLY INVESTIGATE THE STRUCTURAL, FINISH CONDITIONS, AS WELL AS WORKS OF OTHER SERVICES THAT AFFECTS ALL HIS WORK AND WILL COORDINATE AND ARRANGE SUCH WORK ACCORDINGLY, FURNISHING REQUIRED FITTINGS, TRAPS, VALVES AND ACCESSORIES TO MEET SUCH CONDITIONS THAT MAY BE REQUIRED FOR A COMPLETE PLUMBING SYSTEM.
10. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT. THEY ARE NOT INTENDED TO SHOW EVERY DETAIL INCLUDING OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING THE WORK. EXCEPT AS OTHERWISE INDICATED, LOCATIONS OF ITEMS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE PROPER CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT SITE AND MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
11. EXCEPT AS OTHERWISE INDICATED, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH OTHER WORK OR FOR PROPER EXECUTION OF WORK.
12. INCLUDE WORK NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT IN WORK.
13. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AND INFORMATION.
14. REFER TO CIVIL DRAWINGS FOR ADDITIONAL SITE UTILITY INFORMATION AND DETAILS.
15. CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR PENETRATIONS THROUGH STRUCTURAL ELEMENTS PRIOR TO START OF WORK. INSTALL SLEEVES FOR ALL PIPES PENETRATING THROUGH STRUCTURAL ELEMENTS.
16. ALL HORIZONTAL WASTE PIPING SHALL SLOPE AT 1% MINIMUM.
17. ALL SANITARY SEWER VENTS TERMINATING THROUGH THE ROOF SHALL BE INSULATED TO PREVENT CONDENSATION FROM FORMING AND SHALL INCLUDE A VAPOR BARRIER JACKET ON THIS INSULATION. ALL COLD WATER AND STORM WATER PIPING EXPOSED IN PLENUMS OR ABOVE CEILINGS SHALL BE INSULATED TO PREVENT CONDENSATIONS.
18. WATER HAMMER ARRESTORS SHALL BE PROVIDED AT EVERY BRANCH TO MULTIPLE FIXTURES AND ON EVERY FLOOR FOR BOTH HOT AND COLD WATER.
19. PROVIDE TRAP PRIMERS TO ALL FLOOR SINK AND FLOOR DRAINS IN THE BUILDING INCLUDING SHOWER DRAINS. CONCEALED TRAP PRIMER VALVES SHALL BE PROVIDED WITH ACCESS PANELS. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
20. RAINWATER DRAINAGE SYSTEMS PIPE SIZING IS BASED ON 1.0 INCH RAINFALL PER HOUR AND 100 YEARS RETURN.
21. PROVIDE CONDENSATE DRAIN PIPING TO ALL FAN COIL UNITS AND MECHANICAL EQUIPMENT W/ TRAP, UNIONS & FLEXIBLE CONNECTIONS AND SPILL TO APPROVED RECEPTACLE OR CONNECT TO LAVATORY/SINK TAILPIPE. PROVIDE OVERFLOW CONDENSATE DRAIN AND TERMINATE AT FLOOR SINK OR OTHER APPROVED SLOPE LOCATION. INSULATE ALL CONDENSATE AND OVERFLOW DRAIN PIPING INSIDE THE BUILDING. SLOPE ALL CONDENSATE DRAIN PIPING @ 1/8" PER FOOT.
22. SANITARY VENTS THRU ROOFS SHALL TERMINATE AT LEAST 10' AWAY FROM, OR 3' ABOVE ANY OPERABLE WINDOW AND 25' AWAY FROM COMBUSTION AIR OPENINGS AND FRESH AIR INTAKES. PROVIDE VENTS WITH VANDAL PROOF VENT CAPS.
23. CONTRACTOR TO IMPLEMENT PRACTICES AND PROCEDURES TO MEET THE PROJECT'S ENVIRONMENTAL PERFORMANCE GOALS, WHICH INCLUDE ACHIEVING LEED SILVER CERTIFICATION. THE CONTRACTOR SHALL ENSURE THAT THE REQUIREMENTS RELATED TO WATER EFFICIENCY THROUGH WATER USE REDUCTION ARE IMPLEMENTED TO THE FULLEST EXTENT. SUBSTITUTIONS, OR OTHER CHANGES TO THE WORK OR MATERIAL PROPOSED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS, SHALL NOT BE LOWLED IF SUCH CHANGES COMPROMISE THE STATED LEED PERFORMANCE REQUIREMENT. MAXIMUM FLOW/LITR L/S RATES FOR PLUMBING FIXTURES ARE LISTED BELOW:
 - a. WATER CLOSET : 1.28 GALLONS PER FLUSH
 - b. URINAL : 0.125 GALLONS PER FLUSH
 - c. LAVATORY : 0.5 GALLONS PER MINUTE OR 0.20 GALLONS PER CYCLE
 - d. SHOWER : 1.75 GALLONS PER MINUTE
 - e. SINKS : 1.5 GALLONS PER MINUTE
24. HOT WATER & DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. SEE CBC 11550.4.3(4)
25. NO SHARP OR ABRASIVE SURFACE ALLOWED UNDER LAVATORIES.
26. ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHOULD BE LISTED.
27. ALL FAUCETS IN THE PUBLIC RESTROOMS SHALL BE SELF CLOSING OR SELF CLOSING METERING FAUCETS.
28. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°F.
29. PLUMBING PIPES INSTALLED IN THE EXTERIOR WALLS, ATTIC, CRAWL SPACES OR OUTSIDE OF THE BUILDING SHALL BE PROTECTED FROM FREEZING.
30. SUSPENDED PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN TABLE 313.3.2021 INTERNATIONAL PLUMBING CODE.
31. PRIOR TO UTILIZATION OF NEWLY CONSTRUCTED POTABLE WATER PIPING SYSTEMS, ALL AFFECTED POTABLE WATER PIPING SHALL BE DISINFECTED USING PROCEDURE PRESCRIBED IN 2021 INTERNATIONAL PLUMBING CODE SECTIONS 609.9(1) THROUGH 609.9(4).
32. PROVIDE HEAT TRACE TO ALL EXTERIOR PLUMBING PIPES OR PLUMBING PIPES RUNNING IN UNCONDITIONED SPACE.
33. RUN ALL EXTERIOR PIPING BELOW FROST LINE.
34. PROVIDE INSULATION & HEAT TRACING TO ALL EXPOSED WASTE PIPES, DRAIN PIPES, WATER PIPES, VALVES & ACCESSORIES SUCH AS BACKFLOW PREVENTERS ASSEMBLY, DOUBLE CHECK ASSEMBLY, FIRE DEPARTMENT CONNECTION, ETC.
35. ALL VENT THRU ROOF TO BE MINIMUM 3" DIAMETER.

	PIPE SIZE
	PIPING ROUTED ABOVE SLAB OR GRADE
	ACID VENT
	ACID WASTE ABOVE GRADE OR FLOOR
	BOILER BLOWDOWN
	COMPRESSED AIR (NOMINAL PRESSURE)
	CONDENSATE DISCHARGE PUMPED
	CONDENSATE DRAIN
	DIONIZED WATER
	DIONIZED WATER RECIRCULATING
	DISTILLED WATER
	DOMESTIC COLD WATER
	DOMESTIC COLD WATER SOFTENED
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	DRAIN
	GREASE WASTE
	HUMIDIFICATION
	LABORATORY VENT
	LABORATORY WASTE
	NATURAL GAS
	NATURAL GAS VENT
	NON-POTABLE COLD WATER
	NON-POTABLE COLD WATER SOFTENED
	NON-POTABLE HOT WATER
	NON-POTABLE HOT WATER SOFTENED
	PNEUMATIC TRANSPORT
	PROPANE GAS
	RECYCLED WATER
	REVERSE OSMOSIS
	REVERSE OSMOSIS RECIRCULATING
	SAMPLING LINE
	SANITARY DRAIN
	SANITARY DRAIN (OIL)
	SANITARY PUMPED
	SANITARY RADIOACTIVE
	STORM DRAIN
	STORM OVERFLOW
	STORM PUMPED
	TRAP PRIMER
	VACUUM (AIR)
	VACUUM PUMP EXHAUST
	VENT
	VENT (OIL)
	VENT (SEWAGE EJECTOR)
	PIPE INSULATION
	FIXTURE TRAP
	CATCH BASIN
	MANHOLE
	ROOF DRAIN
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	TRAP PRIMER
	HOSE BIBB
	TYPE
	QUANTITY
	PLUMBING FIXTURES
	PLUMBING FIXTURE TAG (REFER TO SCHEDULE)

REAL OBJECT	SYMBOL		
			ISOLATION VALVE (GENERIC)
			GATE VALVE
			GLOBE VALVE
			BUTTERFLY VALVE NPS 6 AND LESS
			BUTTERFLY VALVE NPS 8 AND MORE
			BALL VALVE
			PLUG VALVE
			NEEDLE VALVE
			CHECK VALVE (GENERIC)
			BALANCING VALVE
			FLOW LIMITING VALVE
			PRESSURE REDUCING VALVE
			2-WAY CONTROL VALVE (GENERIC)
			TWO-WAY ELECTRIC CONTROL VALVE, BUTTERFLY TYPE
			3-WAY CONTROL VALVE (GENERIC)
			THREE-WAY ELECTRIC CONTROL VALVE, BUTTERFLY TYPE
			SOLENOID 2-WAY CONTROL VALVE
			SOLENOID 3-WAY CONTROL VALVE
			FLOAT OPERATED VALVE ACTUATOR
			SAFETY OR RELIEF VALVE
			ANGLE VALVE
			BOILER STOP AND CHECK VALVE
			BACKFLOW PREVENTER (GENERIC)
			MULTI-PURPOSE VALVE (SHUTOFF, BALANCING AND CHECK)
			SUCTION DIFFUSER
			PUMP (GENERIC)
			Y STRAINER (GENERIC)
			STEAM TRAP (GENERIC)
			AUTOMATIC AIR VENT
			MANUAL AIR VENT
			VACUUM BREAKER
			SHOCK ABSORBER
			TEMPERATURE GAUGE
			PRESSURE GAUGE
			TEMPERATURE AND PRESSURE TAP
			SIGHT FLOW GLASS
			FLEXIBLE CONNECTOR
			EXPANSION JOINT
			GUIDE
			ANCHOR
			FLOW ARROW
			PIPING SLOPE
			PIPE CAP
			PIPE BREAK
			PIPE CROSS
			PIPING ELBOW UP
			PIPING ELBOW DOWN
			PIPING TEE UP
			PIPING TEE DOWN
			UNION CONNECTION
			FLANGED CONNECTION
			CONCENTRIC REDUCER
			ECCENTRIC REDUCER
			STANDARD CLEAN-OUT IN LINE END OF RUN
			STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
			STANDARD CLEAN-OUT THROUGH FLOOR IN LINE

ABC	ACCESSIBLE
ABV	ABOVE CEILING
AD	ABOVE
AFF	ACCESS DOOR
AFG	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED GRADE
AP	ABOVE FINISHED ROOF
ARCHL	ACCESS PANEL
	ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
BFG	BELOW FINISHED GRADE
CD	CONDENSATE DRAIN
CDP	CONDENSATE PUMP
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CL	CLEAR
CLG	CILING
CO	CLEANOUT
CONN	CONNECT (CONNECTION)
CONT	CONTINUATION
COTF	CLEANOUT THROUGH FLOOR
CWD(R)	COLD WATER DROP (RISER)
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DWGS	DRAWINGS
EA	EACH
EC	ELECTRICAL CONTRACTOR
EFF	EFFICIENCY
EF	ELEVATION
EWC	ELECTRIC WATER COOLER
(E)	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FIN FLR	FINISHED FLOOR
FPS	FIRE PROTECTION SYSTEM
FS(R)	FIRE SPRINKLER (RISER)
FS	FLOOR SINK
F.U.	FIXTURE UNITS
FUT	FUTURE
GA	GAUGE OR GAGE
GCO	GRADE CLEANOUT
GI	GALVANIZED IRON
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HP	HORSEPOWER
HWD(R)	HOT WATER DROP (RISER)
I.E.	INVERT ELEVATION
IMB	ICE MAKER BOX
KW	KILOWATT
LAV	LAVATORY
LPG	LIQUIFIED PETROLEUM GAS
MAX	MAXIMUM
MBH	THOUSANDS BTU's PER HR
MECHL	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
(N)	NEW
NI(P)C	NOT IN (PLUMBING) CONTRACT
OH	OVERHEAD
OC	ON CENTER
POC	POINT OF CONNECTION
PSI	POUNDS SQUARE INCH
P & TR	PRESSURE AND TEMPERATURE
RELIEF	
R	RISER
(R)	REMOVE
RC	ROOF-CEPTOR
RD	ROOF DRAIN
(REL)	RELOCATE
REQMTS	REQUIREMENTS
RI	ROUGH-IN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
S	SINK
SAN	SANITARY SEWER
SB	SERVICE BOX
SCD	SECONDARY CONDENSATE DRAIN
SH	SHOWER
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
STRUCT	STRUCTURAL
TOS	TOP OF SLAB
TOT.	TOTAL
TP	TRAP PRIMER
TV	TEMPERING VALVE
TWD(R)	TEMPERED WATER DROP (RISER)
TYD	TYPICAL
UF	UNDER FLOOR
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
US	UNDER SLAB
V	VENT/VOLTS
VAC BRKR	VACUUM BREAKER
VB	VALVE BOX
VH	VENT HEADER
VR	VENT RISER
VTR	VENT THRU ROOF
W	WASTE
W/	WITH
WB	WALL BOX
WC	WATER CLOSET (WATER COLUMN)
WCO	WATER CLEANOUT
WD	WASTE DROP
WFDU	WATER FIXTURE UNITS
WHA	WATER HAMMER ARRESTOR
YCO	YARD CLEANOUT

NO.	DRAWING NAME
P0-001	COVER SHEET
P0-002	PLUMBING SCHEDULE
P0-003	PLUMBING SCHEDULE
P1-101P	OVERALL FLOOR PLAN LEVEL 1
PD-101C	DEMOLITION FLOOR PLAN
P1-101C	OVERALL FLOOR PLAN LEVEL 1
P1-201C	OVERALL FLOOR PLAN LEVEL 1
PD-101B	DEMOLITION FLOOR PLAN
P1-101B	OVERALL FLOOR PLAN BASEMENT
P1-101M	OVERALL FLOOR PLAN LEVEL 1 - DRAINAGE SYSTEMS
P1-102M	OVERALL FLOOR PLAN LEVEL 1 - PRESSURIZED SYSTEMS
P1-301M	UNDERGROUND PLAN - DRAINAGE SYSTEMS
P3-401M	PLUMBING ISOMETRIC
P6-001	PLUMBING DETAILS
P6-002	PLUMBING DETAILS
P6-501M	PLUMBING GAS RISER DIAGRAM

1. NOT ALL EXISTING CONDITIONS HAVE BEEN SHOWN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
2. PROTECT WORK AND EXISTING CONDITIONS ASSOCIATED WITH THIS CONTRACT FROM DAMAGE, COVER ENDS OF PIPING AND SYSTEM COMPONENTS NOT ACTIVELY BEING WORKED ON. REPAIR OR REPLACE ANY DAMAGED ITEMS THAT OCCUR DURING CONSTRUCTION.
3. DEMOLISH SYSTEM COMPONENTS, VALVES, EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED EXISTING SYSTEMS AS REQUIRED. CONTRACTOR SHALL COORDINATE DEMOLITION WITH EXISTING SYSTEMS AND COMPONENTS TO REMAIN PRIOR TO WORK COMMENCING.
4. CLEAN UP DEBRIS FROM SITE AT THE END OF EACH WORK DAY AND DISPOSE OF EITHER IN LAY DOWN RECYCLE BINS OR OFFSITE.

DETAIL CALLOUTS

DETAIL NUMBER

SHEET ON WHICH DETAIL IS SHOWN

EXTERIOR ELEVATIONS

ELEVATION NUMBER

SHEET ON WHICH ELEVATION IS SHOWN

INTERIOR ELEVATIONS

ELEVATION NUMBER

SHEET ON WHICH ELEVATION IS SHOWN

BUILDING SECTIONS

SECTION NUMBER

SHEET ON WHICH SECTION IS SHOWN

WALL SECTIONS

SECTION NUMBER

SHEET ON WHICH SECTION IS SHOWN

FLOOR OR ROOF LEVEL NAME

FLOOR

VERTICAL ELEVATION

PROJECT NORTH

NORTH ARROW

DRAWING REVISION

MATCH LINE

[illegible]

NOTES:

1. CLOSE OPENING IN PIPING SYSTEM AND FILL TO POINT OF OVERFLOW BUT NOT LESS THAN 10 FOOT HEAD OF WATER.
2. TYPE K SHALL BE USED WHERE OPERATING PRESSURE ARE ABOVE A GAUGE PRESSURE OF 185 PSI AND THE PIPE SIZES ARE LARGER THAN NPS 3.

NOTES:

1. PROVIDE T&P RELIEF VALVES AND VACUUM RELIEF VALVE
2. PROVIDE BALL VALVES WITH UNIONS AND DIELECTRIC FITTINGS ON WATER INLET AND OUTLET CONNECTIONS.
3. ALL UNITS SHALL MEET ASHRAE 90.1-2019 AND ALL LOCAL CODE REQUIREMENTS.
4. PROVIDE THERMOSTATIC MIXING VALVE TO REDUCE 140°F TO SET OUTLET TEMPERATURE AS SCHEDULED.
5. PROVIDE HEAT TRAP OR HEAT TRAP NIPPLES AT WATER HEATER WATER SUPPLY CONNECTIONS.
6. PROVIDE MANUFACTURED WATER EXPANSION RELIEF DEVICE PET-1 AS SCHEDULED BELOW.
7. PROVIDE MANUFACTURED AO SMITH 10289339 CONDENSATE NEUTRALIZATION TANK.
8. MAXIMUM ALLOWABLE GAS PRESSURE SHALL NOT EXCEED 14 IN. W.G. PROVIDE PRESSURE REGULATOR WHERE INLET PRESSURE EXCEEDS THIS LIMIT. CONTRACTOR SHALL VERIFY INLET PRESSURE IN FIELD.

PET	1	DOMESTIC HOT WATER	BLADDER	YES	4.5	-	11	14	-	-	40	200	50.0	150.0	WATTS
-----	---	--------------------	---------	-----	-----	---	----	----	---	---	----	-----	------	-------	-------

NOTES:

1. INSTALL BEHIND AN ACCESS PANEL. PROVIDE DISTRIBUTION UNIT WHERE MULTIPLE TRAPS ARE SERVED, MAXIMUM 4 DRAINS SERVED.
2. RECESSED MOUNTED, MAXIMUM 4 DRAINS SERVED.

NOTES:

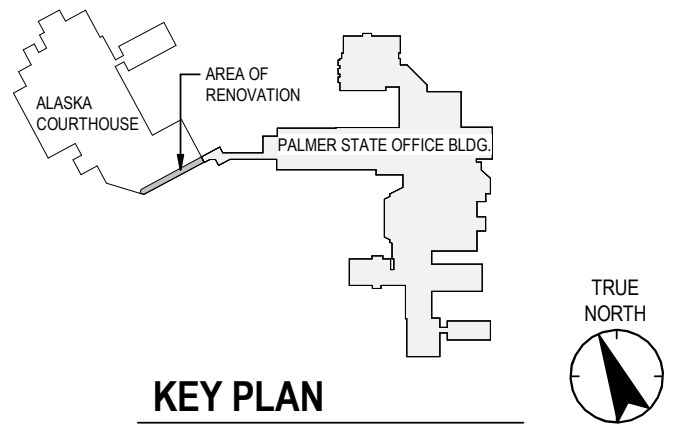
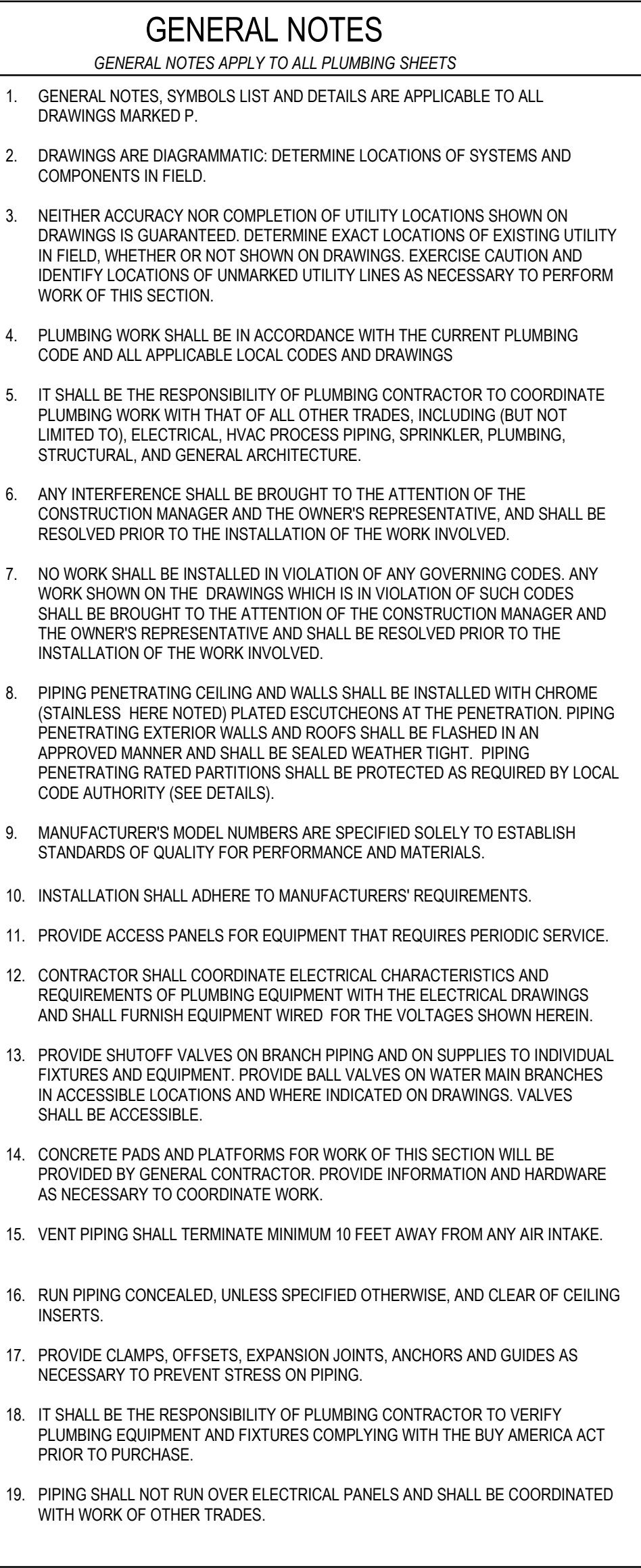
1. ASSE 1017 RATED

2. ASSE 1070 RATED

NOTES:
1. PROVIDE ALL LEAD FREE, BRONZE CONSTRUCTION

NOTES:
1. PROVIDE WITH AIRGAP FITTING.
2. ROUTE AIRGAP DRAIN FULL LINE SIZE TO NEAREST INDIRECT RECEPTOR
3. PRODUCT SHALL BE LEAD FREE.

HOSE BIBB / HYDRANT SCHEDULE							
MARK	NUMBER	CLIMATE	PIPE SIZE	HOSE CONNECTION...	MANUFACTURER	MODEL NUMBER	NOTES
FPWH	1	EXTERIOR	3/4"	3/4"	JAY R SMITH	5515-WC-CL	1
NOTES: 1. PROVIDE WITH SIGNAGE STATING HOSE BIB IS SERVED FROM RECYCLED WATER SYSTEM.							



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5. IT SHALL BE THE RESPONSIBILITY OF PLUMBING CONTRACTOR TO COORDINATE PLUMBING WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING, STRUCTURAL, AND GENERAL ARCHITECTURE.
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11. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
12. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
13. PROVIDE SHUTOFF VALVES ON BRANCH PIPING AND ON SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON WATER MAIN BRANCHES IN ACCESSIBLE LOCATIONS AND WHERE INDICATED ON DRAWINGS. VALVES SHALL BE ACCESSIBLE.
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15. VENT PIPING SHALL TERMINATE MINIMUM 10 FEET AWAY FROM ANY AIR INTAKE.
16. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
17. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
18. IT SHALL BE THE RESPONSIBILITY OF PLUMBING CONTRACTOR TO VERIFY PLUMBING EQUIPMENT AND FIXTURES COMPLYING WITH THE BUY AMERICA ACT PRIOR TO PURCHASE.
19. PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.

PD04	DEMO THE EXISTING SINK AND ASSOCIATED PIPING BACK TO THE MAIN. CUT, CAP, AND SEAL. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING PIPE SIZE, SYSTEM, AND INVERT ELEVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
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Palmer Courthouse Renovation & Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

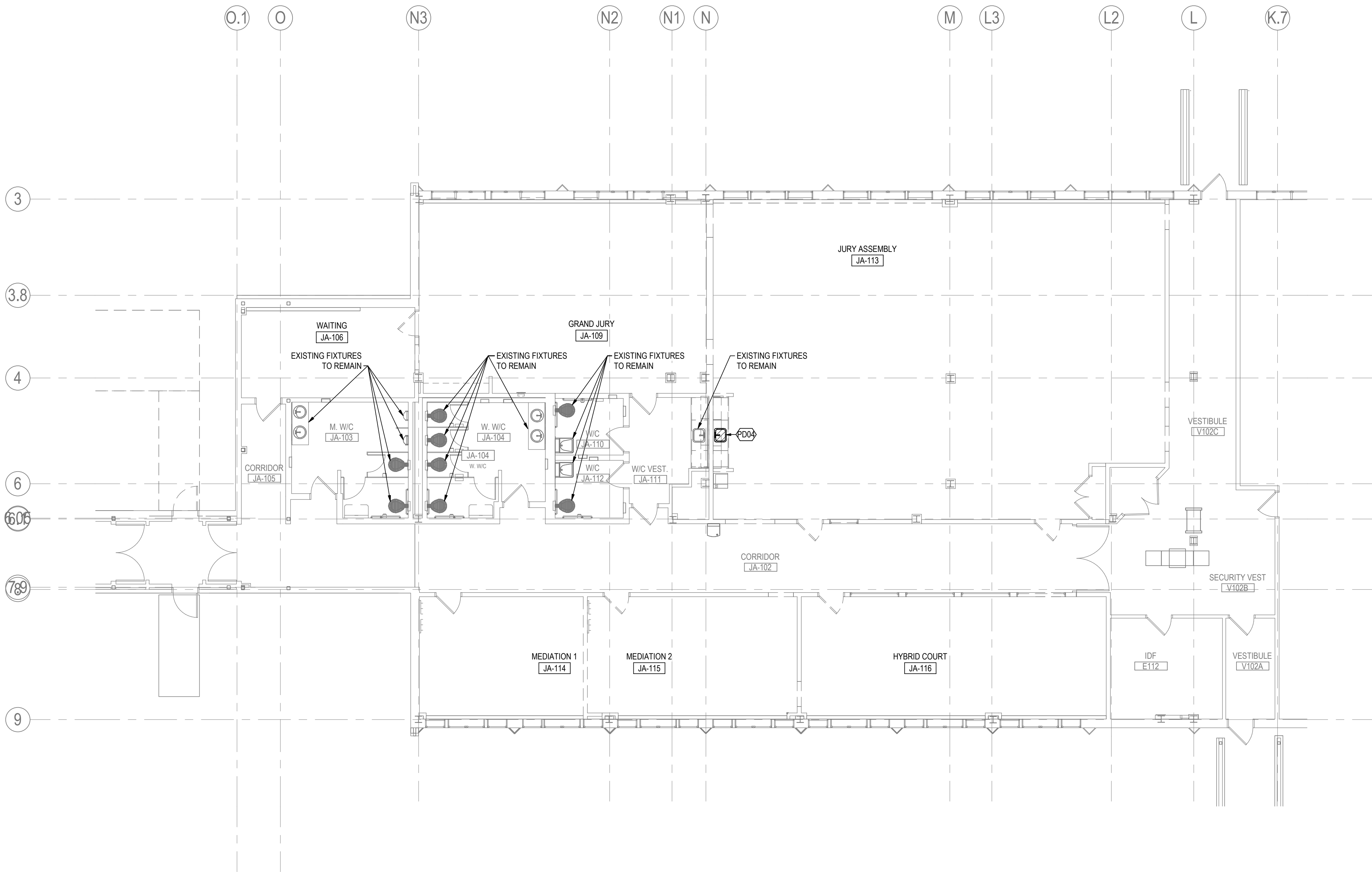
DEMOLITION FLOOR
PLAN

Scale: As indicated

Revision: 3

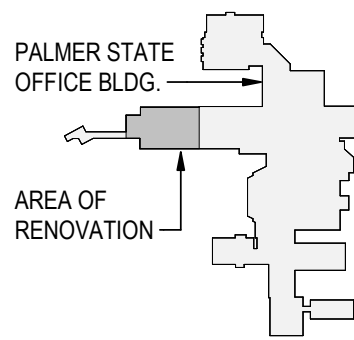
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PD-101C



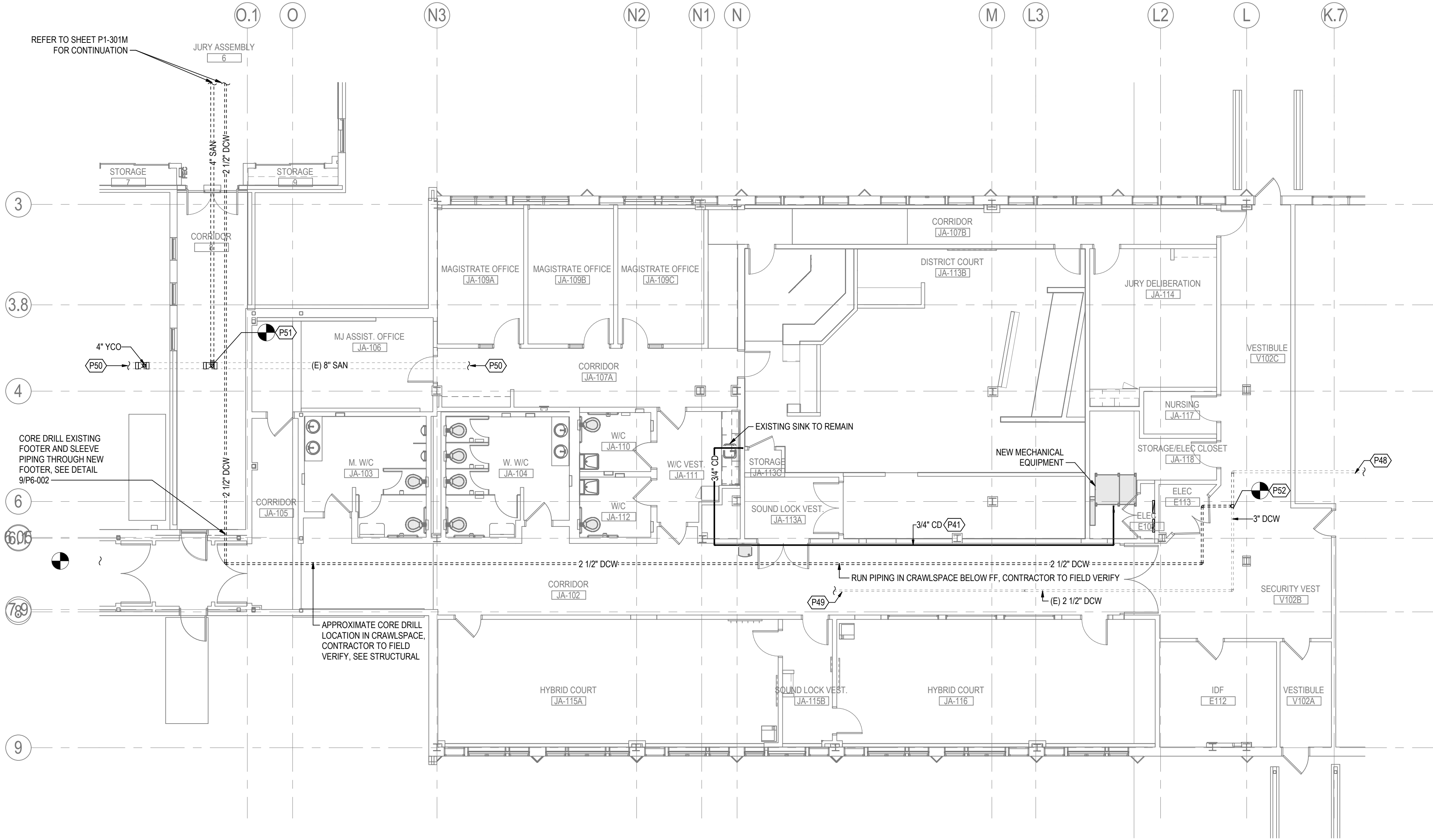
A1 DEMOLITION PLUMBING FLOOR PLAN - CONNECTOR

PD-101C 1/8" = 1'-0"



KEY PLAN





- GENERAL NOTES
- GENERAL NOTES APPLY TO ALL PLUMBING SHEETS
1.

GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P.
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4.

PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS
5.

IT SHALL BE THE RESPONSIBILITY OF PLUMBING CONTRACTOR TO COORDINATE PLUMBING WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING, STRUCTURAL, AND GENERAL ARCHITECTURE.
6.

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7.

NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
8.

PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS HERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY (SEE DETAILS).
9.

MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
10.

INSTALLATION SHALL ADHERE TO MANUFACTURERS' REQUIREMENTS.
11.

PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
12.

CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
13.

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14.

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15.

VENT PIPING SHALL TERMINATE MINIMUM 10 FEET AWAY FROM ANY AIR INTAKE.
16.

RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
17.

PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
18.

IT SHALL BE THE RESPONSIBILITY OF PLUMBING CONTRACTOR TO VERIFY PLUMBING EQUIPMENT AND FIXTURES COMPLYING WITH THE BUY AMERICA ACT PRIOR TO PURCHASE.
19.

PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.

KEY NOTES

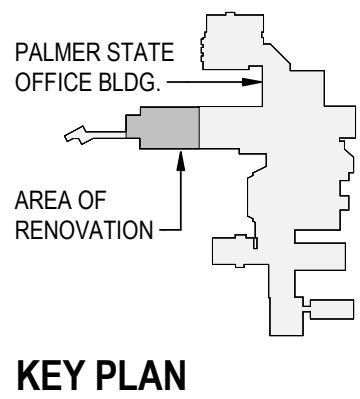
P41	3/4" CD, SLOPE AT 1% AND CONNECT TO SINK TAILPIECE.
P48	EXISTING 3" DOW BELOW GRADE.
P49	EXISTING 2" DOW BELOW GRADE.
P50	EXISTING 8" SAN BELOW GRADE.
P51	4" SAN SLOPED @ 1%. CONNECT TO EXISTING 8" SAN PIPE BELOW GRADE VIA EXISTING CLEANOUT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, PIPE SIZE, SERVICE, INVERT ELEVATION, AND LOCATION PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER WITH ANY DISCREPANCIES.
P52	2-1/2" DOW. CONNECT TO EXISTING 3" DOW PIPE BELOW FINISHED FLOOR. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, PIPE SIZE, SERVICE, INVERT ELEVATION, AND LOCATION PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER WITH ANY DISCREPANCIES.

A1

PLUMBING FLOOR PLAN - CONNECTOR DOMESTIC AND SANITARY

P1-101C

1/8" = 1'-0"



Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.: 2014331970

Title

OVERALL FLOOR PLAN
LEVEL 1

Scale: As indicated

Revision: 3

NUMBER:

P1-101C



Consultant

3	100% CONSTRUCTION DOCUMENTS	2024.02.19	
2	90% CONSTRUCTION DOCUMENTS	2024.01.15	
1	50% DESIGN DEVELOPMENT	2025.09.10	YYYY-MM-DD
Issued/Revision		By	Appot

Permit/Seal



2026-02-19

Alaska Court System

Palmer Courthouse Renovation & Expansion

515 EAST DAHLIA AVENUE
PALMER AK 99645

Project No.:2014331970

Title

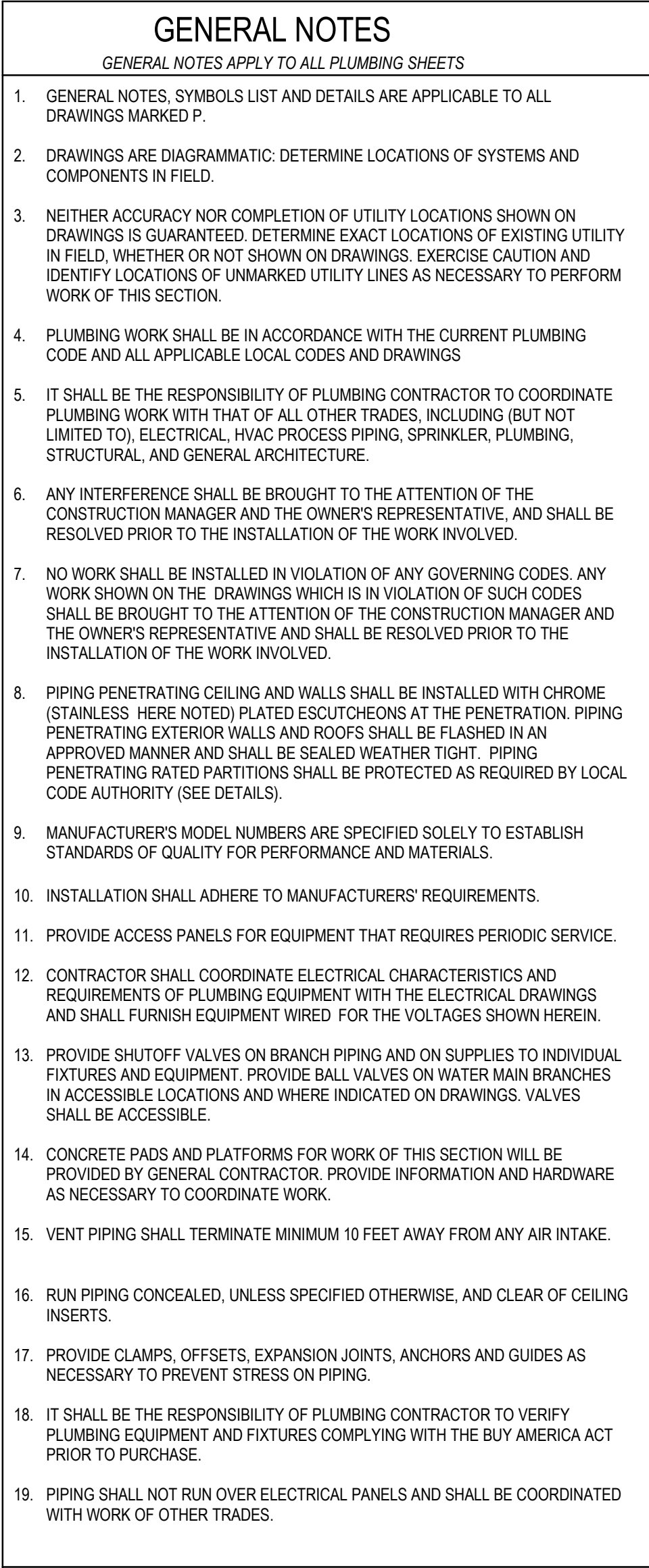
OVERALL FLOOR PLAN
LEVEL 1

Scale: As indicated

Revision: 3

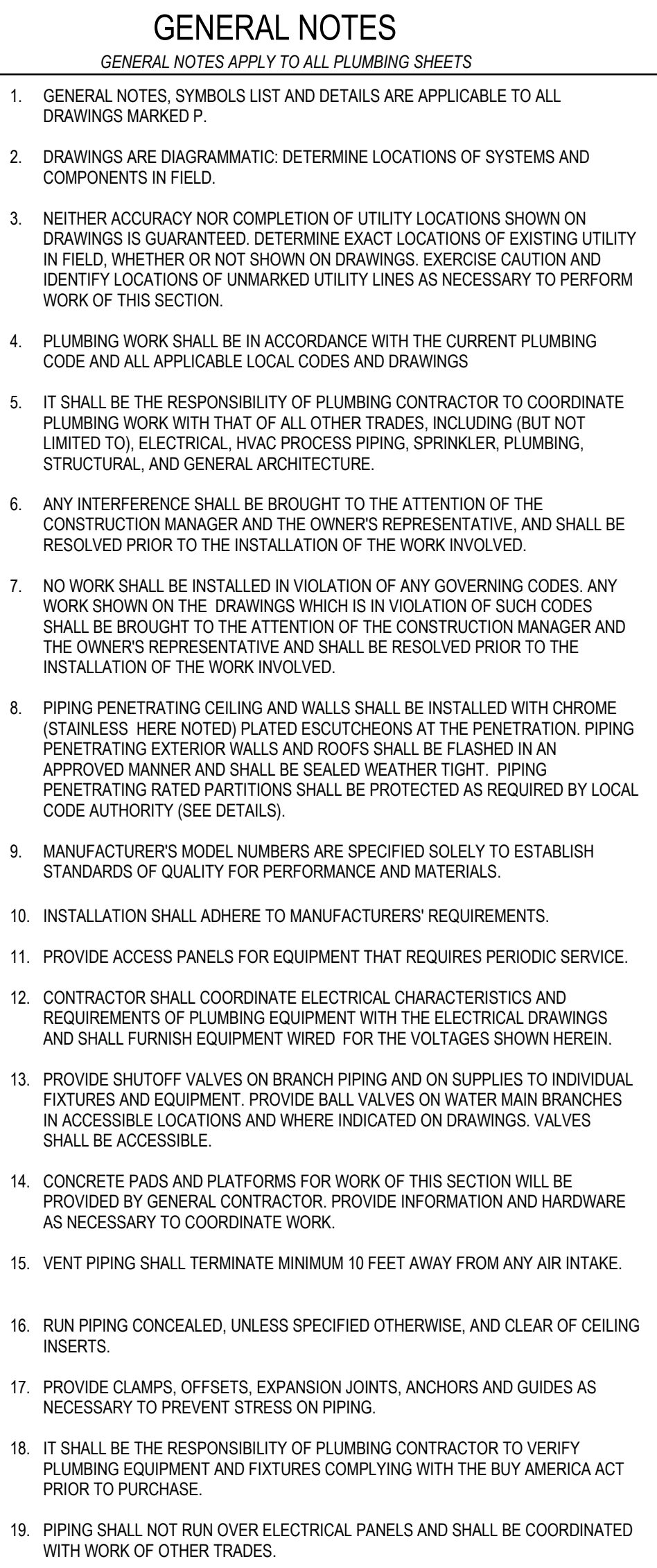
NUMBER

P1-201C



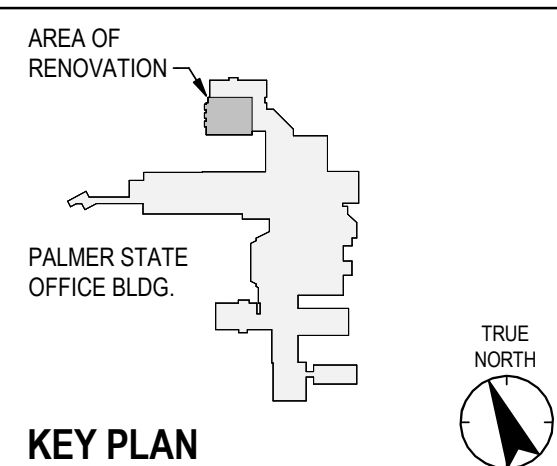
PD04	DEMO THE EXISTING SINK AND ASSOCIATED PIPING BACK TO THE MAIN. CUT, CAP, AND SEAL. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING PIPE SIZE, SYSTEM, AND INVERT ELEVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
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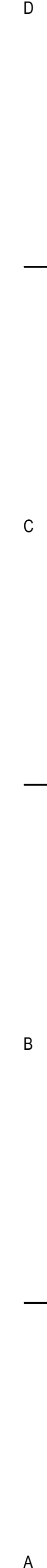




KEY NOTES

P31	PROVIDE 12" X 12" CEILING ACCESS PANEL.
P33	PROVIDE SHUTOFF VALVES IN ACCESSIBLE LOCATION.
P34	PROVIDE A BALANCING VALVE ON THE DOMESTIC HOT WATER RECIRCULATION PIPE. SET AT 0.5 GPM IN AN ACCESSIBLE LOCATION (TYP).
P42	3/4" CD, SLOPE AT 1% AND INDIRECT DRAIN INTO MOP SINK MIN 1" ABOVE FLOOD LEVEL RIM.
P43	4" SAN, CONNECT TO NEAREST EXISTING PLUMBING PIPES, MINIMUM EXISTING 4" SAN. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING PIPE SIZE, SYSTEM, AND INVERT ELEVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
P44	2" V, CONNECT TO NEAREST EXISTING PLUMBING PIPES, MINIMUM EXISTING 2" V. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING PIPE SIZE, SYSTEM, AND INVERT ELEVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
P45	2" DCW, CONNECT TO NEAREST EXISTING PLUMBING PIPES, MINIMUM EXISTING 2" DCW. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING PIPE SIZE, SYSTEM, AND INVERT ELEVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
P46	3/4" DHW, CONNECT TO NEAREST EXISTING PLUMBING PIPES, MINIMUM EXISTING 3/4" DHW. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING PIPE SIZE, SYSTEM, AND INVERT ELEVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
P47	1/2" DHWR, CONNECT TO NEAREST EXISTING PLUMBING PIPES, MINIMUM EXISTING 3/4" DHWR. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING PIPE SIZE, SYSTEM, AND INVERT ELEVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

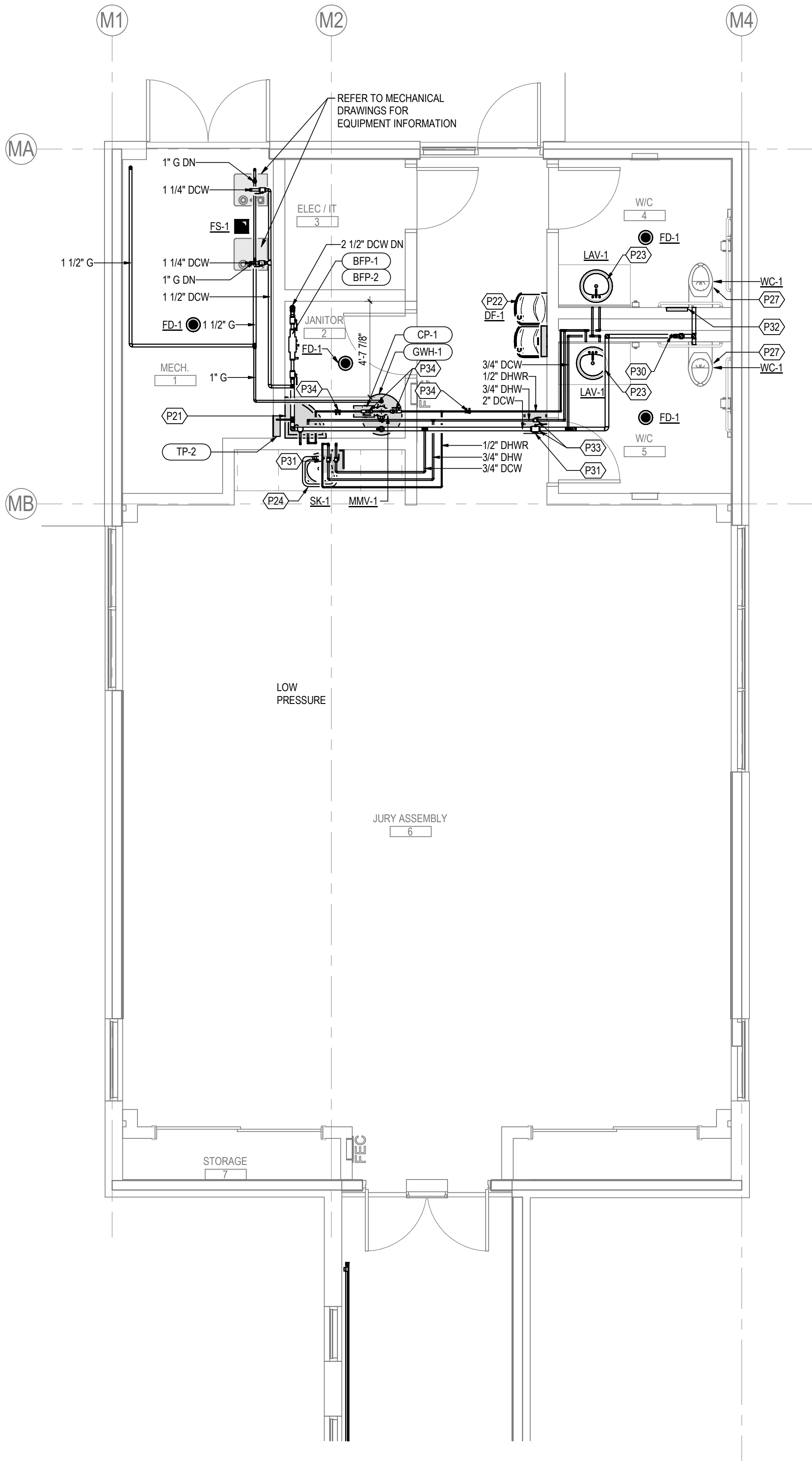



$$1/4" = 1'-0"$$

ORIGINAL SHEET - ANSI D

-





A1
P1-102M

PLUMBING FLOOR PLAN - MODULAR - PRESSURIZED SYSTEMS

1/4" = 1'-0"

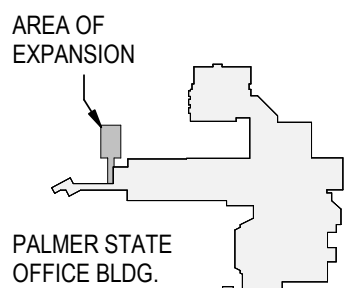
GENERAL NOTES

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KEY NOTES

P21	PROVIDE 3/4" DCW AND 3/4" DHW PIPES TO MOP SINK. PROVIDE WITH CHECK VALVE.
P22	PROVIDE 1/2" DCW PIPE TO DRINKING FOUNTAIN(S).
P23	PROVIDE 3/4" DCW AND 3/4" DHW PIPES TO LAVATORY(S).
P24	PROVIDE 3/4" DCW AND 3/4" DHW PIPES TO SINK(S).
P27	PROVIDE 2" DCW PIPE TO WATER CLOSET(S).
P30	PROVIDE WATER HAMMER ARRESTOR AND TRAP PRIMER ON DOMESTIC COLD WATER PIPE.
P31	PROVIDE 12" X 12" CEILING ACCESS PANEL.
P32	PROVIDE 12" X 12" WALL ACCESS PANEL.
P33	PROVIDE SHUTOFF VALVES IN ACCESSIBLE LOCATION.
P34	PROVIDE A BALANCING VALVE, ON THE DOMESTIC HOT WATER RECIRCULATION PIPE. SET AT 0.5 GPM IN AN ACCESSIBLE LOCATION (TYP).



KEY PLAN



Consultant

Permit/Seal



2026-02-19

Alaska Court System

Palmer Courthouse
Renovation &
Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

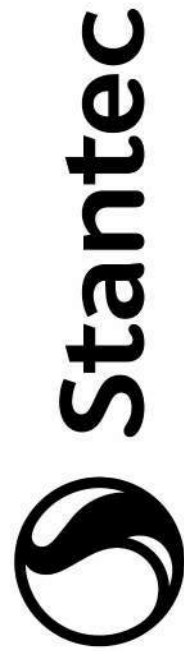
OVERALL FLOOR PLAN
LEVEL 1 - PRESSURIZED
SYSTEMS

Scale:As indicated

Revision:3

NUMBER:

P1-102M



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3900 C Street Suite 902
Anchorage, AK 99503-5938
Tel: (907) 276-4245 • www.stantec.com

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


Alaska Court System

Palmer Courthouse Renovation & Expansion

515 EAST DAHLIA AVENUE
PALMER, AK 99645

Project No.:2014331970

Title

UNDERGROUND PLAN - DRAINAGE SYSTEMS

Scale: As indicated

Revision: 3

NUMBER

P1-301M

Consultant

Permit/Seal



2026-02-19

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5. IT SHALL BE THE RESPONSIBILITY OF PLUMBING CONTRACTOR TO COORDINATE PLUMBING WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING, STRUCTURAL, AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
7. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
8. PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS HERE NOTED) PIPING ESCUTCHEONS AT THE PENETRATION. PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY (SEE DETAIL).
9. MANUFACTURER'S SYMBOL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
10. INSTALLATION SHALL ADHERE TO MANUFACTURER'S REQUIREMENTS.
11. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
12. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
13. PROVIDE SHUTOFF VALVES ON BRANCH PIPING AND ON SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON WATER MAIN BRANCHES IN ACCESSIBLE LOCATIONS AND WHERE INDICATED ON DRAWINGS. VALVES SHALL BE ACCESSIBLE.
14. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE WORK.
15. VENT PIPING SHALL TERMINATE MINIMUM 10 FEET AWAY FROM ANY AIR INTAKE.
16. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
17. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
18. IT SHALL BE THE RESPONSIBILITY OF PLUMBING CONTRACTOR TO VERIFY PLUMBING EQUIPMENT AND FIXTURES COMPLYING WITH THE BUY AMERICA ACT PRIOR TO PURCHASE.
19. PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.

P36	4" SAN SLOPED @ 1%. CONNECT TO EXISTING 8" SAN PIPE OUTSIDE CONNECTOR. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, PIPE SIZE, SERVICE, INVERT ELEVATION, AND LOCATION PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER WITH ANY DISCREPANCIES. SEE SHEET P1-101C.
P56	THE BOTTOM OF WATER PIPE SHALL NOT BE LESS THAN 12 INCHES ABOVE THE TOP OF THE SEWER OR DRAIN LINE. THE WATER PIPE SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH WITH A CLEAR HORIZONTAL DISTANCE OF NOT LESS THAN 12 INCHES FROM THE SEWER OR DRAIN LINE.

5

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- TYPICAL PIPE HANGER AS PER SPECIFICATION
- CONCRETE INSERT OR EXPANSION ANCHOR (TYP.)
- STRUCTURAL CONCRETE SLAB
- REFER TO STRUCTURAL FOR TYPICAL ANCHOR METHODS TO STRUCTURE
- PIPE CLAMP (SIZE AS REQ'D.)
- PIPE
- 45°

SECTION A-A

STRUCTURAL CONCRETE SLAB

CONCRETE INSERT OR EXPANSION ANCHOR (TYP.)

HANGER RODS (TYP.)

PIPE CLAMP (SIZE AS REQ'D.)

PRE-PUNCHED STRUCTURAL SUPPORT

TRANSVERSE BRACING PER SMACNA

ADJUSTABLE ANGLE FITTING (TYP.)

PIPE (TYP.)

SUPERSTRUT WELDED DOUBLE CHANNEL 1202 SERIES, OR EQUAL

WASHER CLAMP

JAM NUT

ROD

NUT

STEEL REINFORCING BOOT

ROOF FLASHING SEE ARCHITECTURAL DWGS.

ROOF CONSTRUCTION, REFER TO ARCHITECTURAL DRAWINGS

VENT TERMINATION HEIGHT PER LOCAL CODE REQUIREMENTS

ROOFING MATERIAL SEE ARCHITECTURAL DRAWINGS

ROOF

DENSDECK ROOFING BOARD

RIGID INSULATION

CONCRETE

PLYWOOD

VENT PIPE PENETRATIONS THRU WEB OF METAL DECK ARE PROHIBITED

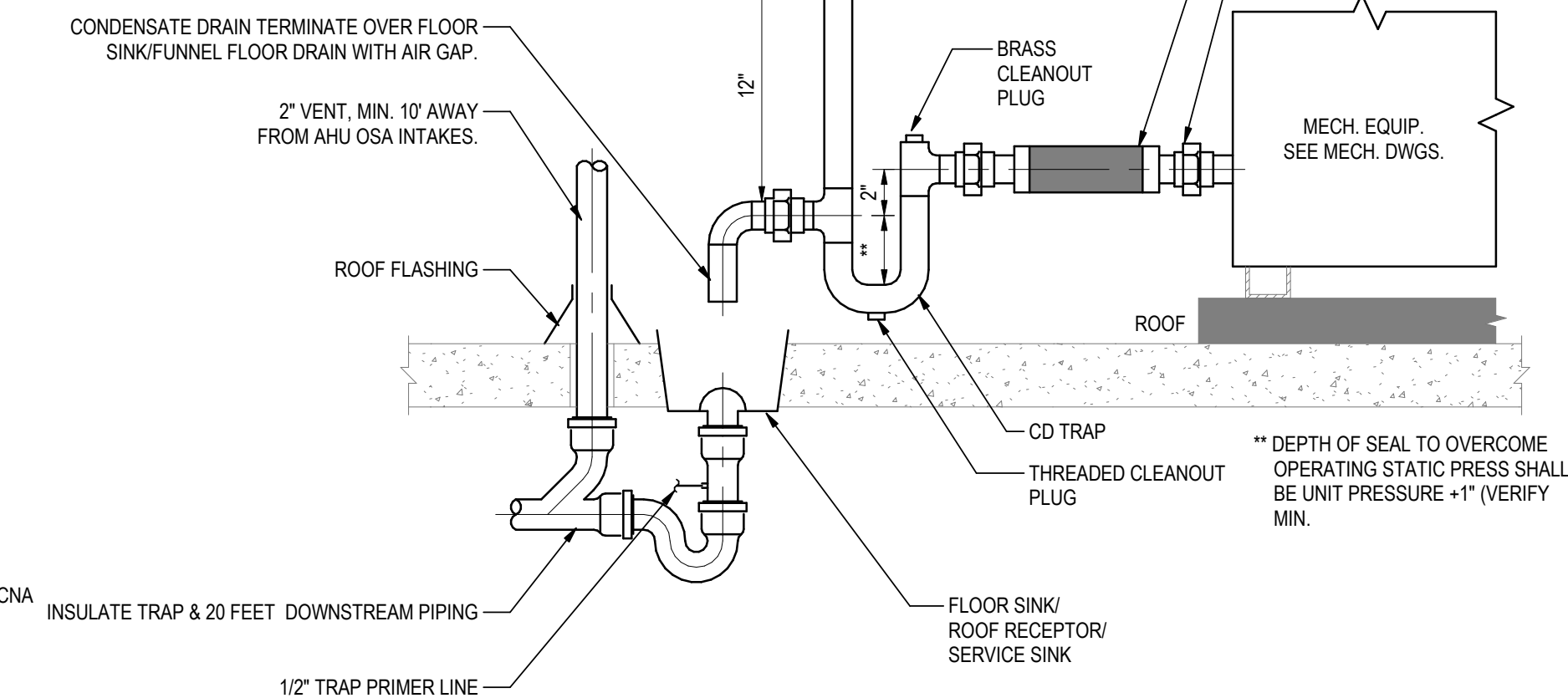
PIPE GUIDE/STABILIZER

SEE PLANS FOR SIZES

The diagram shows a central water meter assembly. At the top, a line labeled "DOMESTIC HOT WATER(120°F)" enters the meter. On the left, a line labeled "DOMESTIC HOT WATER(140°F)" exits the meter, passes through a "HEAT TRAP 28\" drop", and then enters the meter. On the right, two lines enter the meter: "DOMESTIC HOT WATER RECIRC" and "DOMESTIC COLD WATER". Various valves are indicated: a "UNION(TYP.)" on the top line, a "CHECK VALVE(TYP.)" on the left line, and a "BALL VALVE(TYP.)" on the right lines. The meter itself has a circular dial and a rectangular display window.

NOTES:

1. FOR PIPE SIZE SEE FLOOR PLAN.
2. PROVIDE CD PIPING PER SPECIFICATION & CPC TO MECH. EQUIPMENT CONNECTION AS REQUIRED.
3. MANUALLY PRIME TRAP BEFORE START UP.
4. SUPPORT DRAIN LINE TO PREVENT SAG AND TERMINATE TO AN APPROVED RECEPTOR (LAVATORY TAILPIECE, SERVICE SINK, FLOOR SINK, OR ROOF RECEPTOR)



SPECIFIER NOTE - THIS DETAIL IS FOR CONDENSATE DRAIN DISCHARGE TO ROOF RECEPTOR FOR ROOFTOP EQUIPMENT. REFERENCE APPROPRIATELY.

NOTE:
SEISMIC BRACES MAY BE INSTALLED AT EITHER HANGER. BRACES AT BOTH HANGERS ARE NOT REQUIRED WHERE MULTIPLE SHIELD AND CLAMP JOINTS OCCUR IN CLOSELY SPACED ASSEMBLY (I.E. FITTING-FITTING-FITTING, ETC.) A 16 GAUGE HALF SLEEVE MAY BE INSTALLED UNDER THE ASSEMBLY WITH A PIPE HANGER AT EACH END OF THE SLEEVE.

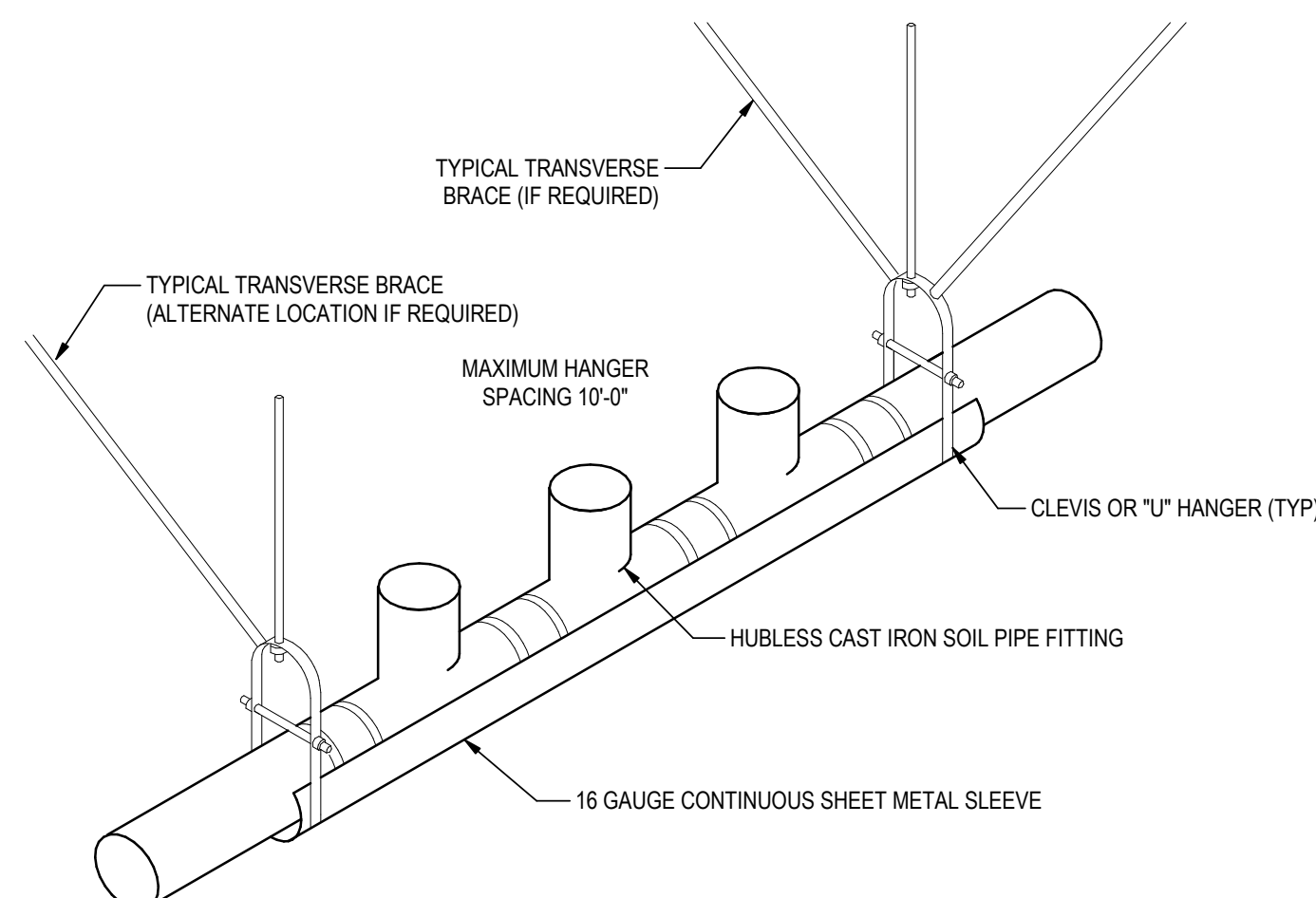


Diagram illustrating a cleanout assembly. The assembly consists of a vertical cast iron extension pipe passing through a finished floor. The pipe is connected to a horizontal building drain or sewer pipe via a cast iron long sweep 1/4 bend or cast iron comb. 'Y' & 1/8 bend (use reducing type where required). The extension pipe is labeled "CAST IRON EXTENSION SIZE AS SEWER UP TO 4\". The floor is labeled "FINISHED FLOOR". The cleanout deck plate is shown at the top of the extension pipe. The building drain or sewer material and size are specified as per the notes.

CLEANOUT TEE

WALL CLEANOUT

WALL ACCESS COVER

18 GA ROUND GALVANIZED STEEL

WALL

ADJUSTABLE HEIGHT GRATE & FRAME

TURN TO LOW POSITION

FLOORING TO BUTT AGAINST FD FRAME SEAL TO EDGE WITH EPOXY.

SUB-FLOORING

1/2" PRIMER CONNECTION

DRAIN BODY

P-TRAP

WASTE PIPE

P6-001) NOT TO SCALE

C  **GAS FIRED WATER HEATER DETAIL**
NOT TO SCALE

DOMESTIC HOT WATER RECIRCULATING PUMP PIPING DETAIL

9 FOUNDATION PENETRATION DETAIL

2 WATER HAMMER ARRESTOR DETAIL

SINK TEMPERING VALVE SCHEMATIC

DOMESTIC WATER ENTRANCE SCHEMATIC (LF909 SIMPLEX)

1 FAUCET - SENSOR OPERATED
P6-002 NOT TO SCALE 1/2" BALL

2 TYPICAL REMOTE TRAP PRIMER DETAIL

NOTES:

1. SIZE HANGER RODS TO SUPPORT TWO TIMES LIVE LOAD BUT IN NO INSTANCE SMALLER THAN 1/2" DIAMETER.
2. CONNECT TO TOP OR BOTTOM CHORD OF JOISTS BUT ONLY AT PANEL POINTS. REFER TO SPECIFICATIONS.
3. COORDINATE CONNECTION METHODS WITH STRUCTURAL SYSTEM. C-CLAMPS ARE NOT ACCEPTABLE FOR ANY PIPE HANGER ASSEMBLIES.
4. LENGTH OF PIPING SHIELD SHALL BE THREE TIMES PIPE SIZE OR MINIMUM 9"

PIPE SUPPORT SPACING SCHEDULE		
PIPE SIZE	STEEL SPACING	COPPER SPACING
UP TO 3/4"	6'-0"	5'-0"
1"	6'-0"	5'-0"
1 1/4"	7'-0"	6'-0"
1 1/2"	9'-0"	8'-0"
2"	10'-0"	8'-0"

3 TYPICAL HANGERS FOR INSULATED PIPING

P6-501M