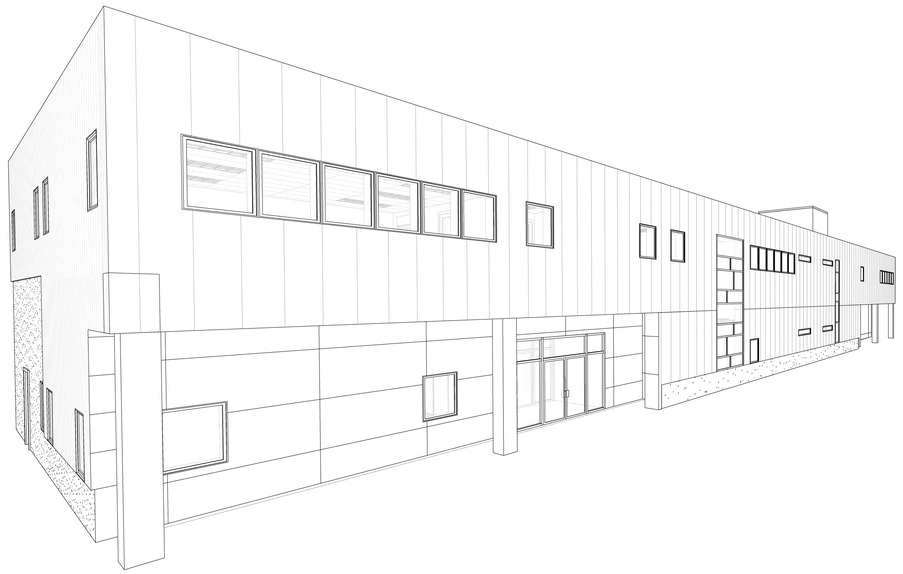

Nome State Office Building
Nome, Alaska

REVISIONS

No	Description	Date

Bid Documents
December 13, 2013

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GVK Elevator Consulting
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San Francisco, CA 3210
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DRAWING LIST

GENERAL
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CIVIL
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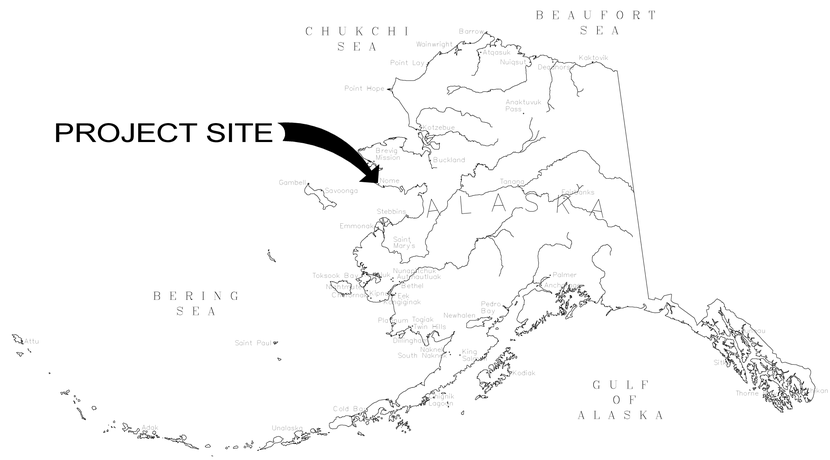

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Nome State Office Building Remodel
Nome Alaska

State Project No.: NSOB001

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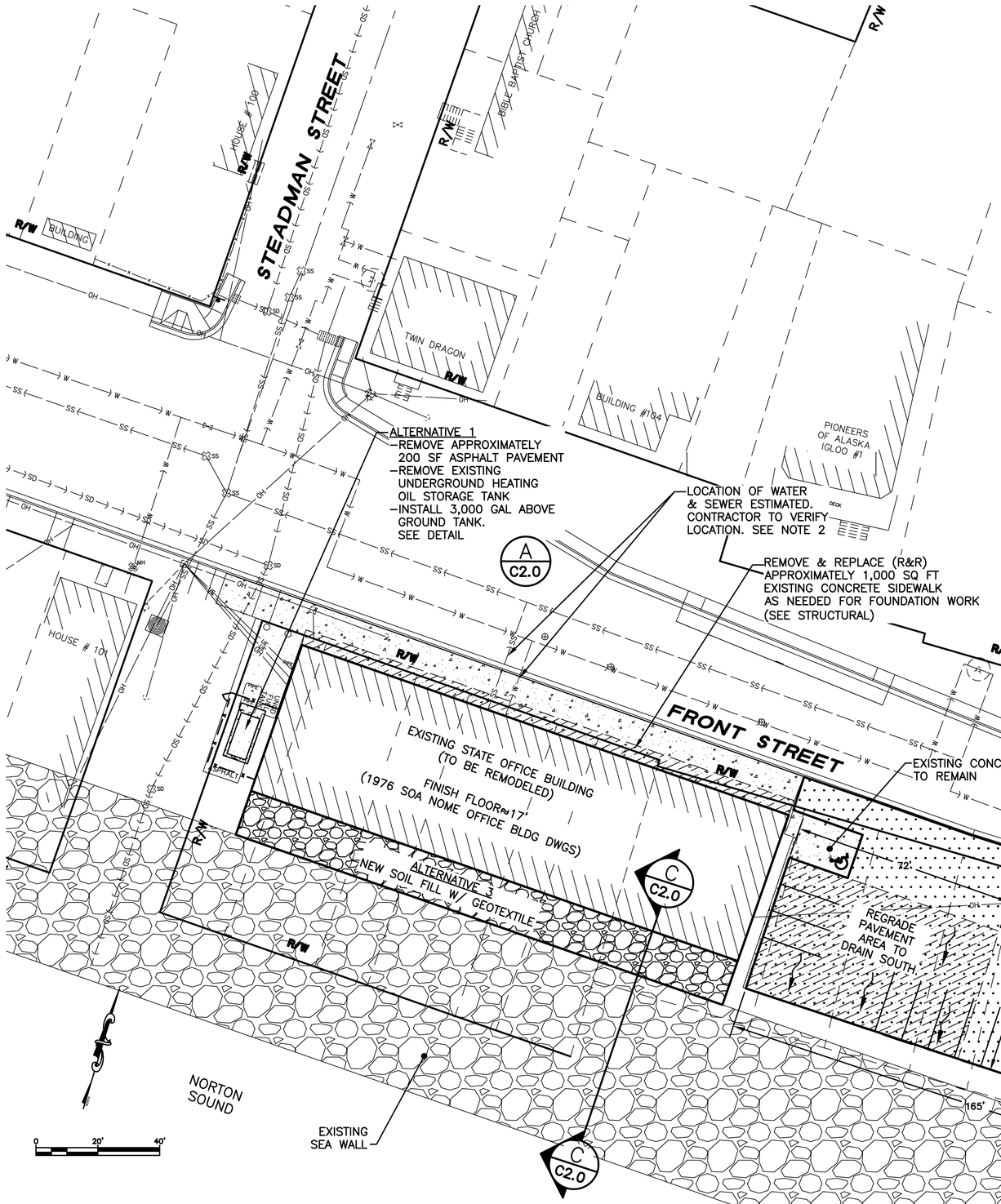
December 13, 2013

Cover Sheet
G0.0



LEGEND

- PROPERTY LINE
- R/W — RIGHT OF WAY
- SS — STORM SEWER LINE
- W — WATER LINE
- SD — STORM DRAIN LINE
- OH — OVERHEAD POWER LINE
- UE — UNDERGROUND ELECTRIC
- BUILDING
- CONCRETE
- R&R AC PAVEMENT
- R&R CONCRETE

CIVIL NOTES

1. EXISTING SITE CONDITIONS SHOWN HAVE BEEN DEVELOPED FROM DOT&PF FRONT STREET RECORD DRAWINGS.
2. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN UTILITY FIELD LOCATES PRIOR TO EXCAVATION AND VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND SHALL RECORD SAME ON CONTRACTOR RECORD DRAWINGS.
3. ALL DAMAGE AND INJURY TO THE PROPERTY THAT IS CAUSED BY OR THAT RESULTS FROM CARRYING OUT THE WORK, OR FROM ANY ACT, OMISSION, OR NEGLECT OF THE CONTRACTOR, THEIR SUBCONTRACTORS OR EMPLOYEES, SHALL PROMPTLY BE REMEDIED BY THE CONTRACTOR EITHER BY REPAIRING, REBUILDING, OR REPLACING THE PROPERTY DAMAGED OR IN SOME OTHER MANNER SATISFACTORY TO THE OWNER.
4. THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY, WATERWAYS, OR ADJACENT PROPERTY.
6. WORKERS SHALL BE EDUCATED REGARDING OIL/PETROLEUM HAZARDS AND SPILLS AS REQUIRED.

REVISIONS

No	Description	Date

STATE OF ALASKA
49TH
Donald R. Porter
CE 8810
12/13/13
Registered Professional Engineer

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Nome State Office Building Remodel

Nome Alaska

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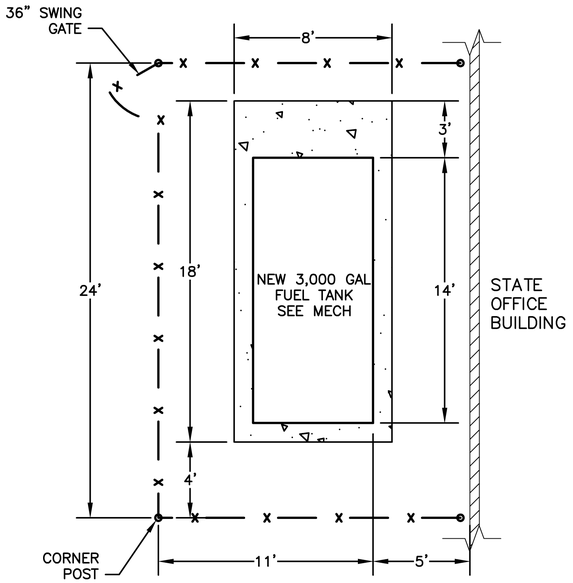
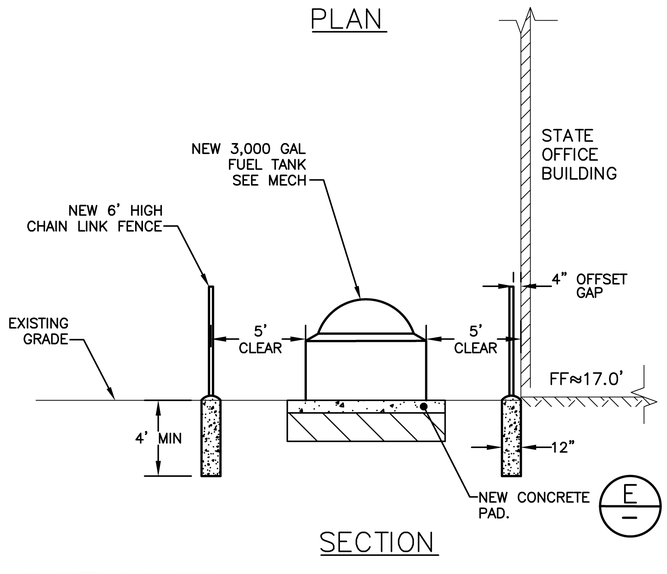
December 13, 2013

CIVIL SITE PLAN
C1.0



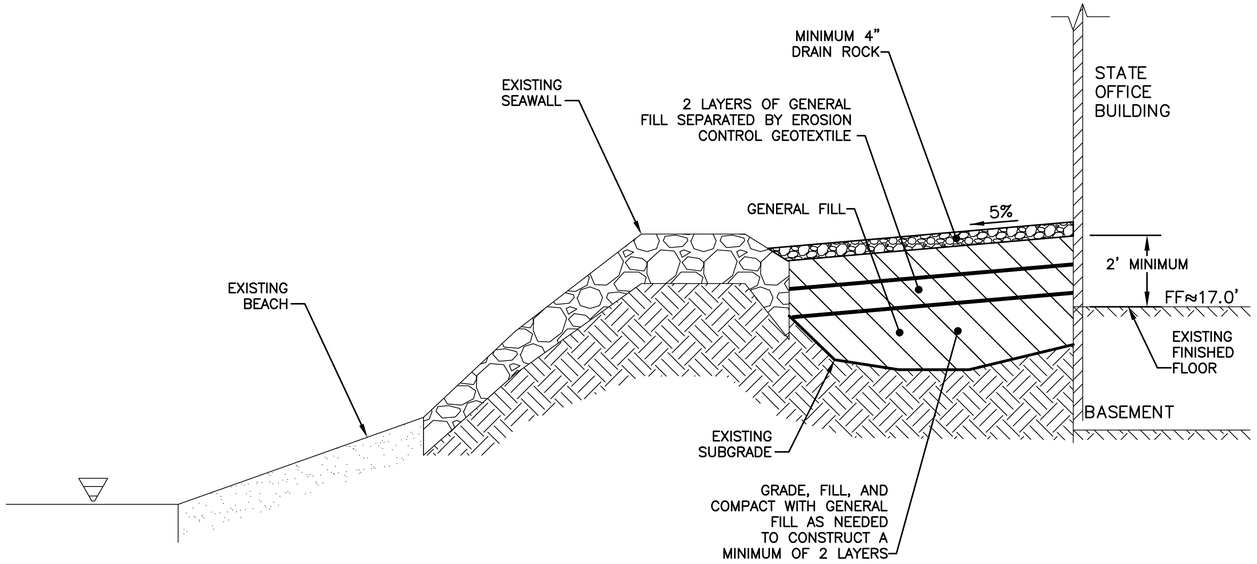
PLAN



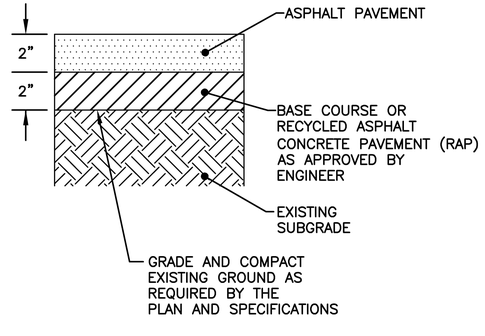
SECTION

CONCRETE PAD NOTES
1. SECURE TANK TO THE SLAB IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS FOR SEISMIC OR 14,000 LBS OF UPLIFT WHICHEVER IS GREATER..
2. USE 18" MINIMUM EDGE DISTANCE FOR ANCHOR BOLTS.

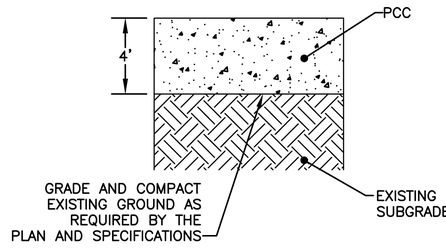
A — ABOVE GROUND FUEL TANK
SCALE: 1"= 4' ALTERNATIVE 1



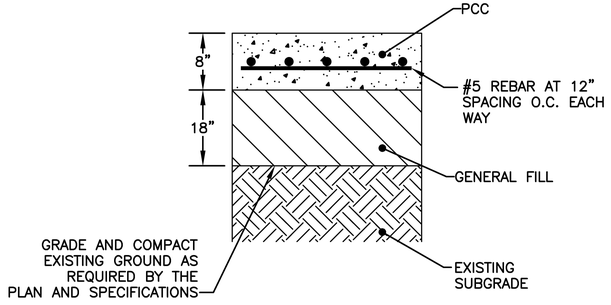
C — SOIL FILL TYPICAL SECTION
SCALE: NTS ALTERNATIVE 3



B — ASPHALT PAVEMENT
SCALE: NTS ALTERNATIVE 2



D — CONCRETE SIDEWALK TYP. SECTION
SCALE: NTS



E — CONCRETE PAD
SCALE: NTS ALTERNATIVE 1

REVISIONS

No	Description	Date

DRAWINGS PREPARED BY:
R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507

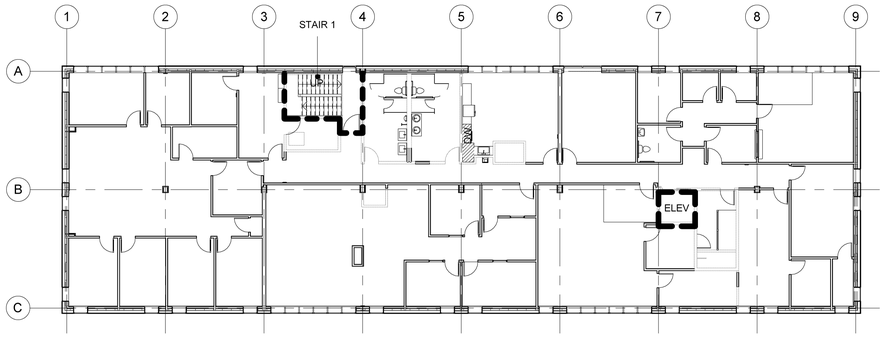
Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

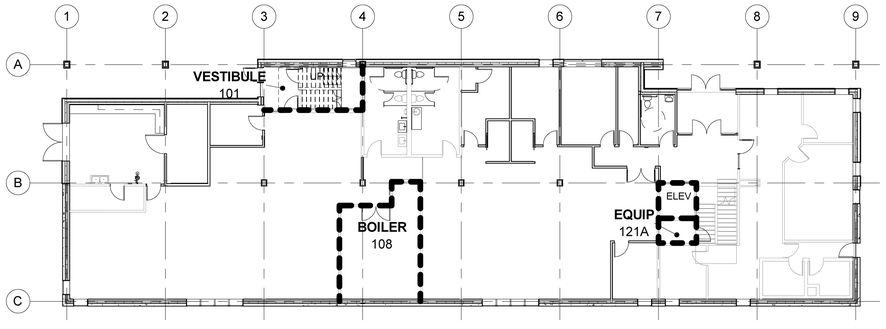
Bid Documents
December 13, 2013

CIVIL DETAILS & SECTIONS
C2.0



2 A0.1 Second Floor Plan - Fire Wall Diagram

SCALE: 1/16" = 1'-0"



1 A0.1 First Floor Plan - Fire Wall Diagram

SCALE: 1/16" = 1'-0"

CODE STUDY

PROJECT DESCRIPTION

THIS IS A TOTAL RENOVATION OF AN EXISTING OFFICE BUILDING. CONSTRUCTED IN 1973 WITH A STEEL FRAME ON TOP OF A PILE FOUNDATION SYSTEM, THIS BUILDING HAS BEEN PREVIOUSLY DAMAGED IN WINTER STORMS, AND HAS SUFFERED FROM CORROSION IN THE MARINE ENVIRONMENT. ADDITIONALLY, HAZARDOUS MATERIALS, INCLUDING ASBESTOS, MERCURY, ETC. WERE USED IN THE ORIGINAL CONSTRUCTION. THE BUILDING RENOVATION WILL ABATE THE HAZMAT CONTAINING MATERIALS, ADDRESS CORROSION ISSUES IN THE BUILDING STRUCTURE, AND WILL PROVIDE A NEW EXTERIOR WALL SYSTEM FOR GREATER ENERGY EFFICIENCY. ADDITIONALLY, THE INTERIOR OF THE BUILDING WILL BE RECONFIGURED TO PROVIDE AN OPEN OFFICE LAYOUT FOR THE PEOPLE WORKING THERE.

ADDRESS

240 FRONT STREET, NOME ALASKA

CODE ANALYSIS

THIS BUILDING CODE ANALYSIS IS BASED ON THE 2006 INTERNATIONAL BUILDING CODE(IBC)

OCCUPANCY CLASSIFICATION

B OCCUPANCY

TYPE OF CONSTRUCTION

TYPE VB CONSTRUCTION

ALLOWABLE FLOOR AREA PER BUILDING

9000 GSF PER FLOOR (IBC TABLE 503)

ACTUAL AREA
FIRST FLOOR 7,848 GSF
SECOND FLOOR 8,492 GSF

ALLOWABLE HEIGHT AND NUMBER OF STORIES
ALLOWABLE HEIGHT: 40 FT MAX
ALLOWABLE STORIES: 2 MAX

ACTUAL HEIGHT AND STORIES

2 STORIES 27'-0" HIGH

OCCUPANT LOAD

FIRST FLOOR:
OCCUPANCY:BUSINESS
1 OCCUPANT/ 100 GROSS (IBC TABLE 1004.1.1)
ACTUAL GROSS AREA: 7,848 GSF/100 GROSS = 79 OCCUPANTS

SECOND FLOOR:
OCCUPANCY: BUSINESS
1 OCCUPANT/ 100 GROSS (IBC TABLE 1004.1.1)
ACTUAL GROSS AREA: 8,492 GSF/ 100 GROSS = 85 OCCUPANTS

EGRESS

2 EXITS REQUIRED (IBC 1015.1) WITH A MAXIMUM TRAVEL DISTANCE 200' PER FLOOR(IBC TABLE 1016.1). 2 EXITS PROVIDED AT BOTH FLOORS

VERTICAL EXIT ENCLOSURES (STAIRS)

1 HOUR RATED FIRE BARRIER ENCLOSURE (IBC 1020.1)
1 RATED ENCLOSURE, ONE HOUR FOR EGRESS STAIR
1 OPEN EGRESS STAIR (1020.1, EXCEPTION 1)

ELEVATOR

PROVIDE ADDRESSABLE PANEL FOR TWO WAY COMMUNICATION (1007.8)
PROVIDE SMOKE DETECTION AND VISIBLE NOTIFICATION

RATED CONSTRUCTION

BOILER ROOM, FIRE BARRIER RATED ONE HOUR
ELEVATOR CONTROL, FIRE BARRIER RATED ONE HOUR
EGRESS STAIR, FIRE BARRIER RATED ONE HOUR
ELEVATOR SHAFT, RATED ONE HOUR

REFERENCE SYMBOLS

ASSEMBLY TYPES

V-1

EXTERIOR ELEVATION

1 A101 SIM

KEYNOTE

XX

DETAIL

1 A101 SIM

INTERIOR ELEVATIONS

1 A101 2 3 4

ELEVATION LEVEL LINE

LEVEL 0'-0"

DETAIL

1 A101 SIM

GRID LINES

SECTION

1 A101 SIM

MATERIAL SYMBOLS

SHEET MEMBRANE (TYPE AS NOTED IN PLAN OR SECTION)

STRUCTURAL STEEL (TYPE AS NOTED IN PLAN OR SECTION)

GLASS (ELEVATION)

CAST-IN-PLACE CONCRETE (PLAN OR SECTION)

EARTH (SECTION)

PLYWOOD (PLAN)

BATT INSULATION: TERMAL OR ACOUSTIC, UON

RIGID INSULATION: TERMAL, ACOUSTIC OR FIRESAFING

SPRAY POLYURETHANE FOAM (SECTION)

GYPSUM BOARD (PLAN)

METAL FRAMING, CONTINUOUS (SECTION)

WOOD FRAMING, CONTINUOUS (SECTION)

WOOD BLOCKING, CONTINUOUS (SECTION)

FINISHED WOOD (SECTION OR ELEVATION)

ARCHITECTURAL ABBREVIATIONS

#	NUMBER
&	AND
@	AT
ACM	ASBESTOS CONTAINING MATERIALS
ACOUS	ACOUSTICAL
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATELY
ATC	ACOUSTIC TILE CEILING
AWW	ALL WEATHER WOOD
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BUR	BUILT UP ROOFING (ASPHALT)
CJ	CONTROL JOINT
CL	CLEAR
CLG	CEILING
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CT	CERAMIC TILE
CTR	CENTER
CUH	CABINET UNIT HEATER
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
DWG	DRAWING
(E)	EXISTING
EA	EACH
EFIS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPS	EXPANDED POLYSTYRENE INSULATION
EQ	EQUAL
ETR	ELECTRICAL THROUGH ROOF
EXIST	EXISTING
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FL	FLOOR
FOS	FACE OF STUD
FOC	FACE OF CONCRETE
FRM'G	FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GLB	GLUE LAMINATED BEAM
GWB	GYPSUM WALL BOARD
GYP	GYPSUM BOARD
H	HORIZONTAL
HM	HOLLOW METAL
HR	HOUR
IBC	INTERNATIONAL BUILDING CODE
IHM	INSULATED HOLLOW METAL
INFO	INFORMATION
INSUL	INSULATION
J-BOX	JUNCTION BOX
JT	JOINT
LAV	LAVATORY
LF	LINEAR FOOT
LG	LIGHT GUARD INSULATION BOARD
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NEW
NA	NOT APPLICABLE
NFS	NON FROST SUSCEPTIBLE
NIC	NOT IN CONTRACT
NRCA	NATIONAL ROOFING CONTRACTOR'S ASSOCIATION
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFS	OVERFLOW SCUPPER
OH	OVERHEAD
OPN'G	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OTS	OPEN TO STRUCTURE
PLYWD	PLYWOOD
POLY	POLYETHYLENE SHEET
POLYISO	POLYISOCYANURATE INSULATION
PR	PAIR
PREFAB	PREFABRICATE
PSF	POUNDS PER SQUARE FOOT
PT	PRESERVATIVE TREATED
PTD	PAINTED
PTR	PIPE THROUGH ROOF
RA	RELIEF AIR
RD	ROOF DRAIN
REQ'D	REQUIRED
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
REF	REFERENCE
REFRIG	REFRIGERATOR
SAM	SELF ADHERING MEMBRANE
SBS	STYRENE-BUTADIENE-STYRENE
SEBS	STYRENE-ETHYLENE-BUTADIENE-STYRENE
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SPF	SPRAY POLYURETHANE FOAM
SS	STAINLESS STEEL
STRUC	STRUCTURAL
TB	TACK BOARD
TO	TOP OF
TOD	TOP OF DECK
TOFF	TOP OF FINISHED FLOOR
TOS	TOP OF SLAB
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VEST	VESTIBULE
V/F	CONTRACTOR TO VERIFY IN FIELD
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WD	WOOD
XPS	EXTRUDED POLYSTY

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

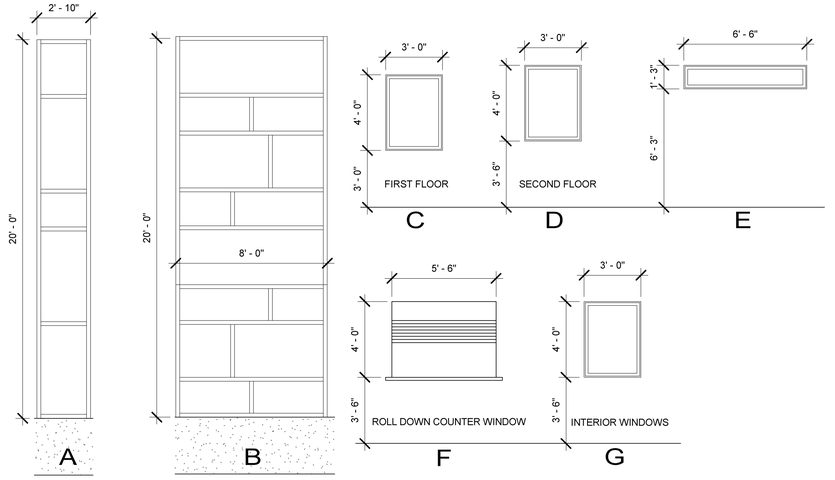
Bid Documents
December 13, 2013

Abbreviations and Symbols

A0.1

DOOR SCHEDULE

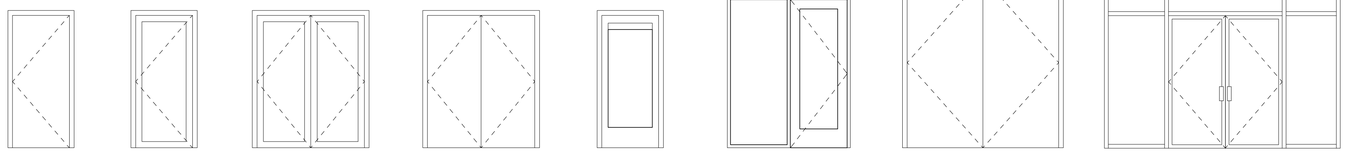
Door Number	Width	Height	Thickness	DOOR Type	DOOR Material	FRAME Material	Fire Rating	Door Hardware Group	Remarks
101A	3' - 0"	7' - 10"	0' - 2"	6	AL	AL		02	EXTERIOR DOOR, INSULATED WITH THERMALLY BROKEN FRAME
101B	3' - 0"	7' - 10"	0' - 2"	6	AL	AL		02	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
101B	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM	1 HR	02	
102	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		18	SMOKE SEAL, INSTALL IN EXISTING OPENING
104	6' - 0"	7' - 0"	0' - 1 3/4"	4	WOOD	HM		06	
105	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		03	
106	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		04	
107A	3' - 0"	7' - 0"	0' - 1 3/4"	5	WOOD	HM		13	FULL HEIGHT RELITE. RELITE TO HAVE 3MM DUSTED FILM TO ROOM SIDE OF DOOR
107B	3' - 0"	7' - 0"	0' - 1 3/4"	5	WOOD	HM		13	FULL HEIGHT RELITE. RELITE TO HAVE 3MM DUSTED FILM TO ROOM SIDE OF DOOR
108	6' - 0"	7' - 0"	0' - 1 3/4"	4	HM	HM	1 HR	11	1 HR FIRE RATING, INSTALL IN EXISTING OPENING, KNOCK DOWN FRAME IS ACCEPTABLE
109	8' - 0"	9' - 0"	0' - 1 3/4"	7	HM	HM		08	EXTERIOR DOOR, INSULATED WITH THERMALLY BROKEN FRAME. INSTALL IN EXISTING OPENING
109A	4' - 0"	7' - 0"	0' - 2"	NA	NA	NA		07	DOOR COMPONENT OF MODULAR FREEZER
109B	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		10	INSTALL IM EXISTING OPENING - KNOCK DOWN FRAME IS ACCEPTABLE
110	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM	1 HR	04	
112B	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		12	
120A	6' - 0"	7' - 0"	0' - 2"	8	AL	AL		01	EXTERIOR DOOR, INSULATED WITH THERMALLY BROKEN FRAME
120B	6' - 0"	7' - 0"	0' - 2"	8	AL	AL		01	EXTERIOR DOOR, INSULATED WITH THERMALLY BROKEN FRAME
121	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM	1 HR	11	INSTALL IN EXISTING OPENING, KNOCK DOWN FRAME ACCEPTABLE
125B	3' - 0"	7' - 10"	0' - 2"	6	WOOD	HM		17	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
130	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM			INSTALL IN EXISTING OPENING WITH THERMALLY BROKEN FRAME
140A	3' - 0"	7' - 0"	0' - 1 3/4"	5	WOOD	HM		05	FULL HEIGHT RELITE WITH 3MM DUSTED FILM, ROOM SIDE DOOR
145	3' - 0"	7' - 0"	0' - 1 3/4"	5	WOOD	HM		14	FULL HEIGHT RELITE. RELITE TO HAVE 3MM DUSTED FILM TO ROOM SIDE OF DOOR TO 5'-0" AFF
150	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		12	
155	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	METAL		15	
200A	3' - 6"	7' - 0"	0' - 1 3/4"	1	HM	HM	1 HR		INSTALL IN EXISTING OPENING
205	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
206	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
210	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		09	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
210A	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		09	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
210C	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM		15	
210D	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE. RELITE TO HAVE 3MM DUSTED FILM TO ROOM SIDE OF DOOR
210E	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE. RELITE TO HAVE 3MM DUSTED FILM TO ROOM SIDE OF DOOR
210F	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE. RELITE TO HAVE 3MM DUSTED FILM TO ROOM SIDE OF DOOR
210G	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		09	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
220	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	FULL HEIGHT RELITE. RELITE TO HAVE 3MM DUSTED FILM TO ROOM SIDE OF DOOR
220A	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		12	
225	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	CLEAR GLAZING
225A	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
226	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM			INSTALL IN EXISTING OPENING
230	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
230A	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		03	
230B	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM		04	
240	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
240A	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	CLEAR GLAZING
240B	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
240C	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	CLEAR GLAZING, PROVIDE HORIZONTAL LOUVER BLINDS, INTEGRAL IN GLAZING
240D	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
250	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		09	CLEAR GLAZING
250A	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	CLEAR GLAZING
250B	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		05	
250C	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
250D	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
250E	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
250F	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
250G	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		05	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
250H	3' - 0"	7' - 0"	0' - 1 3/4"	2	WOOD	HM		14	FULL HEIGHT RELITE KIT WITH CLEAR GLASS AND WOOD TRIM AT RELITE TO MATCH DOOR
250I	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		04	
265	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		12	
265A	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	HM	1 HR	04	12" HIGH KICKPLATE AND DOOR CLOSER
265B	3' - 0"	7' - 0"	0' - 1 3/4"	1	WOOD	HM		12	



WINDOW TYPES

SCALE: 1/4"-1'-0"

WINDOW NOTES
1. ALL WINDOWS ON FIRST FLOOR TO HAVE SAFETY SECURITY FILM, SEE GLAZING SPECIFICATIONS.
2. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL WINDOWS.



DOOR TYPES

SCALE: 1/4"-1'-0"

REVISIONS

No	Description	Date

STATE OF ALASKA 49TH
Eric S. Spangler
No. 10225
REGISTERED PROFESSIONAL ARCHITECT

DRAWINGS PREPARED BY:

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Nome State Office Building Remodel

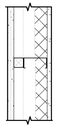
Nome Alaska

State Project No.: NSOB001

Bid Documents
December 13, 2013

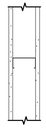
Door and Window Schedule

A0.2



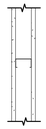
TYPICAL EXTERIOR WALL
1/2" GYPSUM WALLBOARD 2 LAYERS
2" FURRING
3 5/8" METAL STUD @ 16" O.C.
2" SPRAYED URETHANE INSULATION
1/2" GYPSUM WALLBOARD

EW1



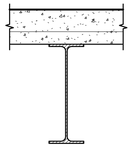
TYPICAL INTERIOR WALL
5/8" GYPSUM WALLBOARD
3 5/8" METAL STUD @16" O.C.
5/8" GYPSUM WALLBOARD

EW2



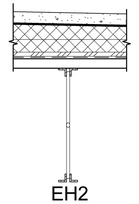
DEMOUNTABLE PARTITIONS
PROPRIETARY WALL SYSTEM
UTILIZING ALUMINUM TRACK
WITH STEEL STUDS AND
GYPSUM BOARD.

EW3



TYPICAL FLOOR
5" CONCRETE SLAB ON METAL DECK
WIDE FLANGE BEAM

EH1

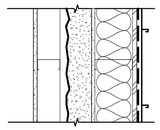


TYPICAL ROOF
CONCRETE BALLAST PAVERS
EPDM MEMBRANE
TAPERED RIGID INSULATION
2" RIGID INSULATION
5/8" PLYWOOD
VAPOR RETARDER
1 1/2" METAL DECKING
18H5 TRUSS @5' O.C.

EH2

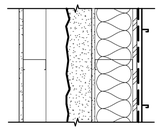
EXISTING WALL ASSEMBLIES

SCALE: 1"-1'-0"



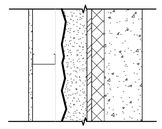
EXTERIOR WALL - TYPICAL
5/8" GYPSUM WALL BOARD
3 5/8" METAL STUD @ 16" O.C.
1" AIR GAP
FLUID APPLIED VAPOR BARRIER
4" SPRAYED POLYURETHANE FOAM
1/2" GYPSUM WALL BOARD
6" METAL STUDS @ 16" O.C.
BATT INSULATION INFILL
3/4" PLYWOOD
AIR BARRIER MEMBRANE
STANDING SEAM METAL SIDING

W1



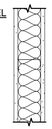
EXTERIOR WALL - TYPICAL
5/8" GYPSUM WALL BOARD
3 5/8" METAL STUD @ 16" O.C.
- ALIGN WITH STUD BELOW
3 1/4" AIR GAP
FLUID APPLIED VAPOR BARRIER
4" SPRAYED POLYURETHANE FOAM
1/2" GYPSUM WALL BOARD
6" METAL STUDS @ 16" O.C.
BATT INSULATION INFILL
3/4" PLYWOOD
AIR BARRIER MEMBRANE
STANDING SEAM METAL SIDING

W1A



EXTERIOR WALL- CONCRETE @ LOWER LEVEL
5/8" GYPSUM WALL BOARD
3-5/8" METAL STUD @ 16" O.C.
1" AIR GAP
FLUID APPLIED VAPOR BARRIER
4" SPRAYED URETHANE INSULATION
3/4 " PLYWOOD
2" RIGID INSULATION
6" CONCRETE PANEL

W2

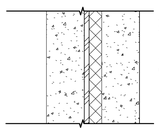


TYPICAL INTERIOR WALL
5/8" GYPSUM WALLBOARD
3 5/8" METAL STUD @16" O.C.
SOUND BATT INSULATION
5/8" GYPSUM WALLBOARD

WALL TYPE W3A
5/8" GYPSUM WALLBOARD
8" METAL STUD @16" O.C.
SOUND BATT INSULATION
5/8" GYPSUM WALLBOARD

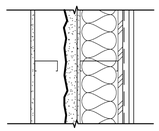
W3
W3A

WALLS TO EXTEND TO DECK ABOVE
STC 50 RATING REQUIRED



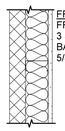
EXTERIOR WALL-
CONCRETE @ CRAWL SPACE LEVEL
(E) 6" CONCRETE FOUNDATION WALL
3/4 " PLYWOOD
+/- 2" RIGID INSULATION
6" CONCRETE WALL

W4



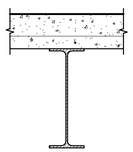
EXTERIOR WALL WITH PHENOLIC PANEL
5/8" GYPSUM WALL BOARD
3 5/8" METAL STUD @ 16" O.C.
1" AIR GAP
FLUID APPLIED VAPOR BARRIER
2" SPRAYED URETHANE INSULATION
1/2" GYPSUM WALL BOARD
BATT INSULATION INFILL
6" METAL STUDS @ 16" O.C.
3/4" PLYWOOD
AIR BARRIER MEMBRANE
1" FURRING PER PANEL MANUFACTURERS
PHENOLIC RESIN PANEL

W5



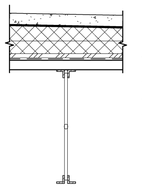
FREEZER WALL
FREEZER WALL
3 5/8" METAL STUD @16" O.C.
BATT INSULATION
5/8" GYPSUM WALLBOARD

W6



TYPICAL FLOOR
5" CONCRETE SLAB ON METAL DECK
(E) WIDE FLANGE BEAM

H1



TYPICAL ROOF
CONCRETE BALLAST PAVERS
EPDM MEMBRANE
TAPERED RIGID INSULATION
2" RIGID INSULATION
5/8" PLYWOOD
VAPOR RETARDER
(E) 1 1/2" METAL DECKING
(E) 18H5 TRUSS @5' O.C.

H2

NEW WALL ASSEMBLIES

SCALE: 1"-1'-0"

REVISIONS

No	Description	Date

STATE OF ALASKA
49TH
Eric S. Spangler
No.10225
REGISTERED PROFESSIONAL ARCHITECT

DRAWINGS PREPARED BY:

BEZEK DURST SEISER, Inc.
3330 C Street, Suite 200
Anchorage, Alaska 99503

T: 907.562.6076 | F: 907.562.6635
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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Documents
December 13, 2013

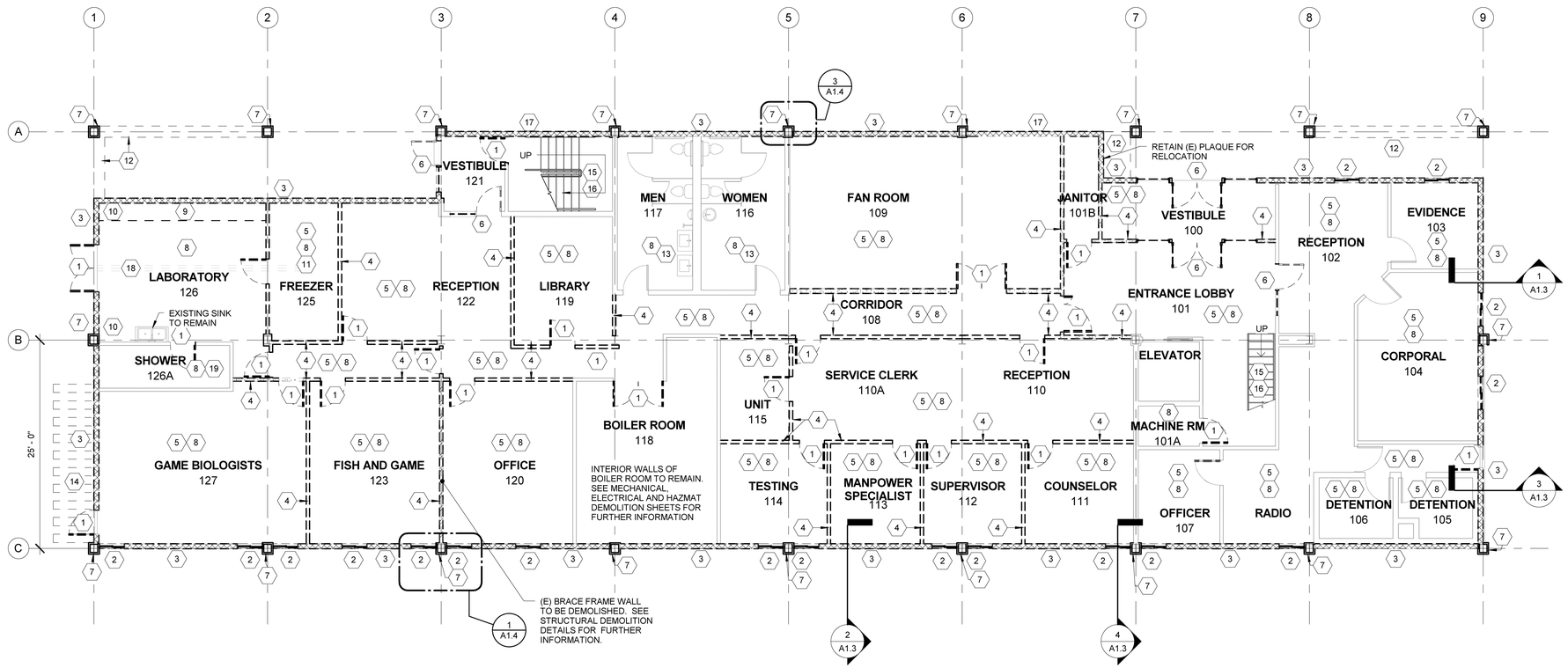
Assemblies
A0.3

LEGEND

- DEMOUNTABLE PARTITIONS TO BE DEMOLISHED
- GWB WALLS TO BE DEMOLISHED
- EXTERIOR WALL TO BE DEMOLISHED
- GWB WALLS AROUND BRACE FRAME TO BE DEMOLISHED
- EXISTING TO REMAIN

DEMOLITION NOTES

1. REMOVE DOOR, FRAME, THRESHOLD AND ALL ASSOCIATED HARDWARE INCLUDING FASTENERS AND ANCHORING. SALVAGE DOOR AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS. REMOVE MACHINE ROOM DOOR CONTAINING ASBESTOS -- SEE HAZ-MAT SHEETS H1.0 AND H1.2.
2. REMOVE WINDOWS INCLUDING TRIMS INTERIOR AND EXTERIOR , FLASHING, ASBESTOS-CONTAINING SEALANT, AND ANY ANCHORING DEVICES AND FASTENERS. SALVAGE WINDOW AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3.
3. REMOVE AND DISPOSE OF ALL EXTERIOR WALL COMPONENTS, INCLUDING ASBESTOS WALL PANELS, ASBESTOS COLUMN COVERS, PORCELAIN COATED METAL PANEL, ASBESTOS CONTAINING SEALANT, FASTENERS AND METAL TRIMS, FLASHINGS, FRAMING, GWB, FINISHES, AND INSULATION MATERIALS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3 FOR ADDITIONAL INFORMATION. SEE DEMOLITION DETAILS AND SECTION ON PAGES A1.3 AND A1.4.
4. REMOVE AND DISPOSE OF DEMOUNTABLE WALLS AND OTHER INTERIOR WALLS, INCLUDING ALL FRAMING, GWB, FINISHES AND ASSOCIATED MECHANICAL AND ELECTRICAL COMPONENTS INCLUDING FASTENERS, ANCHORS AND OTHER ATTACHMENT DEVICES TO EXTENTS SHOWN IN DEMO PLANS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3.
5. REMOVE AND DISPOSE OF EXISTING FLOORING CARPETING, VINYL ASBESTOS TILE, AND OTHER MISCELLANEOUS FLOOR FINISHES INCLUDING MASTICS AND GLUES DOWN TO CONCRETE STRUCTURE FINISH. REFERENCE HAZ-MAT SHEETS H1.0, H1.1 AND H1.2 FOR ABATEMENT OF FLOORING PRIOR TO REMOVAL.
6. REMOVE AND DISPOSE OF EXISTING STOREFRONT DOORS AND SIDELITES, AND ALL ASSOCIATED HARDWARE INCLUDING CLOSERS, DOOR OPERATOR, FASTENERS, AND ANCHORING.
7. REMOVE AND DISPOSE OF EXISTING COLUMN COVERS FROM COLUMN BASE UP TO ROOF. SEE HAZ-MAT SHEETS H1.0 AND H1.1 FOR ADDITIONAL INFORMATION.
8. REMOVE AND DISPOSE OF EXISTING CEILING INCLUDING ALL GWB, ACOUSTIC TILES, GRIDS, SUPPORTS AND TIES AND OTHER SUPORTING STRUCTURE. REFERENCE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3 FOR ABATEMENT OF CEILING PRIOR TO REMOVAL.
9. REMOVE EXISTING CASEWORK, INCLUDING CABINETS, COUNTERS AND ASSOCIATED HARDWARE. SALVAGE AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS.
10. REMOVE AND DISPOSE OF EXISTING FUME HOOD AND ALL ASSOCIATED COMPONENTS.
11. REMOVE AND DISPOSE OF EXISTING FREEZER, ALL ASSOCIATED COMPONENTS, AND SURROUNDING WALLS.
12. REMOVE AND DISPOSE OF EXTERIOR CONCRETE PLANTERS AT ENTRIES.
13. REPLACE RESTROOM FIXTURES AS REQUIRED -- SEE MECHANICAL SHEET M2.1.
14. REMOVE AND DISPOSE OF WOOD DECK.
15. REMOVE AND DISPOSE OF ALUMINUM AND WOOD STAIR HANDRAILS, INCLUDING FASTENERS AND ANCHORING DEVICES, AT BOTH STAIRS.
16. REMOVE STAIR TREAD FINISH IN PREPERATION FOR INSTALLATION OF RISERS.
17. DEMOLISH EXTERIOR WALL, INCLUDING ALL STUDS, GWB, WOOD FURRING, ASBESTOS WALL BOARD, WINDOWS, METAL TRIM, AND EXISTING STRUCTURAL BRACE FRAME FROM GRID LINE TO GRID. SEE STRUCTURAL SHEETS S1.3, S1.4 AND S2.1; AND HAZ-MAT SHEETS H1.0, H1.1 AND H1.2 FOR FURTHER INFORMATION.
18. REMOVE LAB MONORAIL, SALAVAGE AND REINSTALL FOR INSTALLATION OF FREEZER.
19. DEMOLISH EXISTING SHOWER. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
20. CRAWL SPACE DEMOLITION, SEE HAZ-MAT SHEET H1.1 AND MECHANICAL SHEET M1.4.
21. ADDITIONAL DEMOLITION NOTED IN MECHANICAL SHEETS M1.1, M1.2, M1.3, M1.4 AND M1.5; AND ELECTRICAL SHEETS E1.1, E1.2 AND E1.3.



1 A1.1 First Floor Demolition Plan

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

REVISIONS

No	Description	Date

STATE OF ALASKA 49TH
Eric S. Spangler
No.10225
REGISTERED PROFESSIONAL ARCHITECT

DRAWINGS PREPARED BY:

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Documents
December 13, 2013

First Floor Demolition Plan

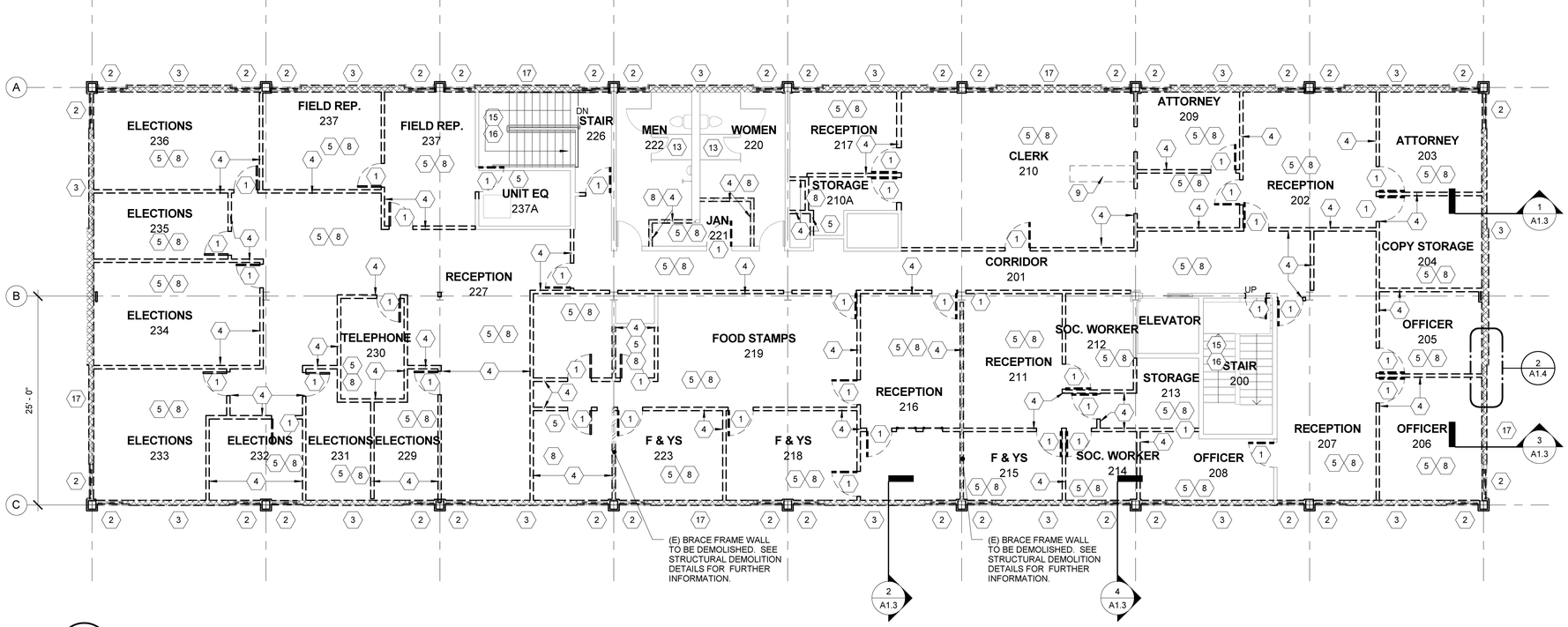
A1.1

LEGEND

- DEMOUNTABLE PARTITIONS TO BE DEMOLISHED
- GWB WALLS TO BE DEMOLISHED
- EXTERIOR WALL TO BE DEMOLISHED
- GWB WALLS AROUND BRACE FRAME TO BE DEMOLISHED
- EXISTING TO REMAIN

DEMOLITION NOTES

1. REMOVE DOOR, FRAME, THRESHOLD AND ALL ASSOCIATED HARDWARE INCLUDING FASTENERS AND ANCHORING. SALVAGE DOOR AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS. REMOVE MACHINE ROOM DOOR CONTAINING ASBESTOS -- SEE HAZ-MAT SHEETS H1.0 AND H1.2.
2. REMOVE WINDOWS INCLUDING TRIMS INTERIOR AND EXTERIOR , FLASHING, ASBESTOS-CONTAINING SEALANT, AND ANY ANCHORING DEVICES AND FASTENERS. SALVAGE WINDOW AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3.
3. REMOVE AND DISPOSE OF ALL EXTERIOR WALL COMPONENTS, INCLUDING ASBESTOS WALL PANELS, ASBESTOS COLUMN COVERS, PORCELAIN COATED METAL PANEL, ASBESTOS CONTAINING SEALANT, FASTENERS AND METAL TRIMS, FLASHINGS, FRAMING, GWB, FINISHES, AND INSULATION MATERIALS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3 FOR ADDITIONAL INFORMATION. SEE DEMOLITION DETAILS AND SECTION ON PAGES A1.3 AND A1.4.
4. REMOVE AND DISPOSE OF DEMOUNTABLE WALLS AND OTHER INTERIOR WALLS, INCLUDING ALL FRAMING, GWB, FINISHES AND ASSOCIATED MECHANICAL AND ELECTRICAL COMPONENTS INCLUDING FASTENERS, ANCHORS AND OTHER ATTACHMENT DEVICES TO EXTENTS SHOWN IN DEMO PLANS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3.
5. REMOVE AND DISPOSE OF EXISTING FLOORING CARPETING, VINYL ASBESTOS TILE, AND OTHER MISCELLANEOUS FLOOR FINISHES INCLUDING MASTICS AND GLUES DOWN TO CONCRETE STRUCTURE FINISH. REFERENCE HAZ-MAT SHEETS H1.0, H1.1 AND H1.2 FOR ABATEMENT OF FLOORING PRIOR TO REMOVAL.
6. REMOVE AND DISPOSE OF EXISTING STOREFRONT DOORS AND SIDELITES, AND ALL ASSOCIATED HARDWARE INCLUDING CLOSERS, DOOR OPERATOR, FASTENERS, AND ANCHORING.
7. REMOVE AND DISPOSE OF EXISTING COLUMN COVERS FROM COLUMN BASE UP TO ROOF. SEE HAZ-MAT SHEETS H1.0 AND H1.1 FOR ADDITIONAL INFORMATION.
8. REMOVE AND DISPOSE OF EXISTING CEILING INCLUDING ALL GWB, ACOUSTIC TILES, GRIDS, SUPPORTS AND TIES AND OTHER SUPORTING STRUCTURE. REFERENCE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3 FOR ABATEMENT OF CEILING PRIOR TO REMOVAL.
9. REMOVE EXISTING CASEWORK, INCLUDING CABINETS, COUNTERS AND ASSOCIATED HARDWARE. SALVAGE AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS.
10. REMOVE AND DISPOSE OF EXISTING FUME HOOD AND ALL ASSOCIATED COMPONENTS.
11. REMOVE AND DISPOSE OF EXISTING FREEZER, ALL ASSOCIATED COMPONENTS, AND SURROUNDING WALLS.
12. REMOVE AND DISPOSE OF EXTERIOR CONCRETE PLANTERS AT ENTRIES.
13. REPLACE RESTROOM FIXTURES AS REQUIRED -- SEE MECHANICAL SHEET M2.1.
14. REMOVE AND DISPOSE OF WOOD DECK.
15. REMOVE AND DISPOSE OF ALUMINUM AND WOOD STAIR HANDRAILS, INCLUDING FASTENERS AND ANCHORING DEVICES, AT BOTH STAIRS.
16. REMOVE STAIR TREAD FINISH IN PREPERATION FOR INSTALLATION OF RISERS.
17. DEMOLISH EXTERIOR WALL, INCLUDING ALL STUDS, GWB, WOOD FURRING, ASBESTOS WALL BOARD, WINDOWS, METAL TRIM, AND EXISTING STRUCTURAL BRACE FRAME FROM GRID LINE TO GRID. SEE STRUCTURAL SHEETS S1.3, S1.4 AND S2.1; AND HAZ-MAT SHEETS H1.0, H1.1 AND H1.2 FOR FURTHER INFORMATION.
18. REMOVE LAB MONORAIL, SALAVAGE AND REINSTALL FOR INSTALLATION OF FREEZER.
19. DEMOLISH EXISTING SHOWER. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
20. CRAWL SPACE DEMOLITION, SEE HAZ-MAT SHEET H1.1 AND MECHANICAL SHEET M1.4.
21. ADDITIONAL DEMOLITION NOTED IN MECHANICAL SHEETS M1.1, M1.2, M1.3, M1.4 AND M1.5; AND ELECTRICAL SHEETS E1.1, E1.2 AND E1.3.



1 A1.2 Second Floor Demolition Plan

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

REVISIONS

No	Description	Date

STATE OF ALASKA 49TH
Eric S. Spangler No.10225
REGISTERED PROFESSIONAL ARCHITECT

DRAWINGS PREPARED BY:

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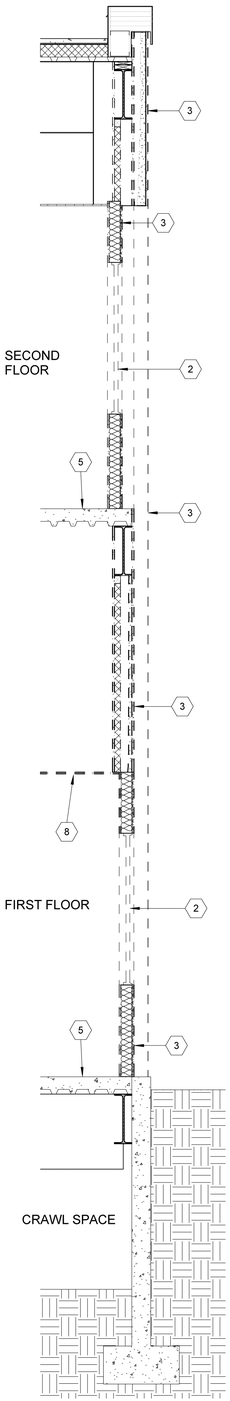
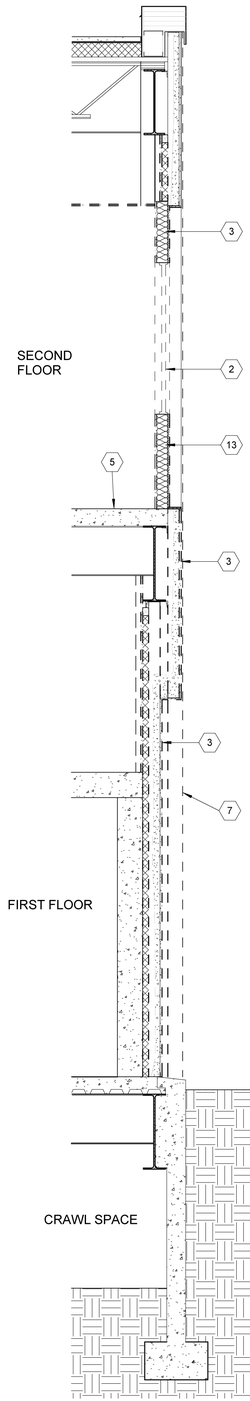
Second Floor Demolition Plan

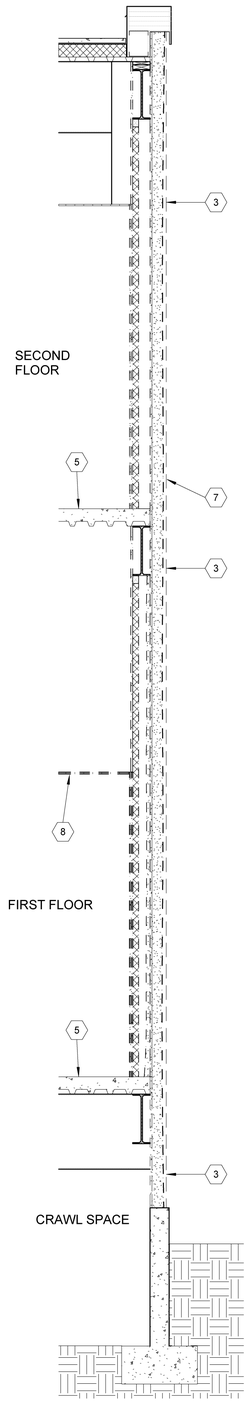
A1.2



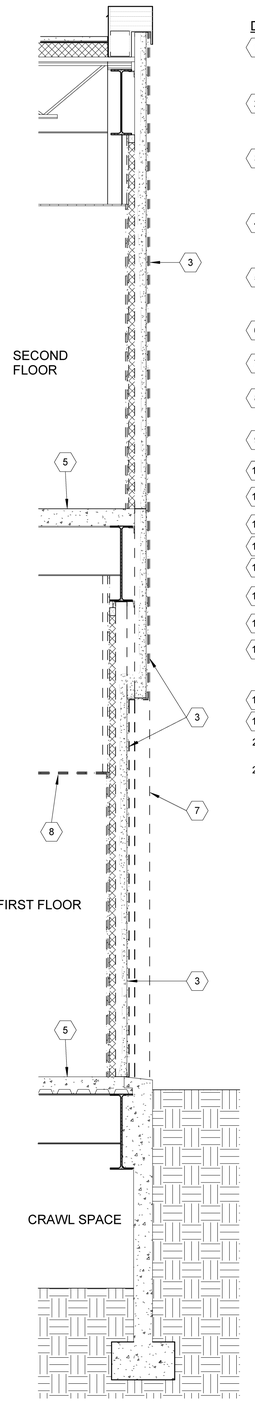
4 A1.3 Wall Section (South @ Window)
SCALE: 1/2" = 1'-0"



3 A1.3 Wall Section (East @ Window)
SCALE: 1/2" = 1'-0"



2 A1.3 Wall Section (South)
SCALE: 1/2" = 1'-0"



1 A1.3 Wall Section (East)
SCALE: 1/2" = 1'-0"

DEMOLITION NOTES

1. REMOVE DOOR, FRAME, THRESHOLD AND ALL ASSOCIATED HARDWARE INCLUDING FASTENERS AND ANCHORING. SALVAGE DOOR AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS. REMOVE MACHINE ROOM DOOR CONTAINING ASBESTOS -- SEE HAZ-MAT SHEETS H1.0 AND H1.2.
2. REMOVE WINDOWS INCLUDING TRIMS INTERIOR AND EXTERIOR , FLASHING, ASBESTOS-CONTAINING SEALANT, AND ANY ANCHORING DEVICES AND FASTENERS. SALVAGE WINDOW AND RETURN TO OWNER'S PROVIDED LOCATION. DISPOSE OF OTHER ITEMS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3.
3. REMOVE AND DISPOSE OF ALL EXTERIOR WALL COMPONENTS, INCLUDING ASBESTOS WALL PANELS, ASBESTOS COLUMN COVERS, PORCELAIN COATED METAL PANEL, ASBESTOS CONTAINING SEALANT, FASTENERS AND METAL TRIMS, FLASHINGS, FRAMING, GWB, FINISHES, AND INSULATION MATERIALS. SEE HAZ-MAT SHEETS H1.0, H1.2 AND H1.3 FOR ADDITIONAL INFORMATION. SEE DEMOLITION DETAILS AND SECTION ON PAGES A1.3 AND A1.4.
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18. REMOVE LAB MONORAIL, SALAVAGE AND REINSTALL FOR INSTALLATION OF FREEZER.
19. DEMOLISH EXISTING SHOWER. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
20. CRAWL SPACE DEMOLITION, SEE HAZ-MAT SHEET H1.1 AND MECHANICAL SHEET M1.4.
21. ADDITIONAL DEMOLITION NOTED IN MECHANICAL SHEETS M1.1, M1.2, M1.3, M1.4 AND M1.5; AND ELECTRICAL SHEETS E1.1, E1.2 AND E1.3.

REVISIONS

No	Description	Date

STATE OF ALASKA 49TH
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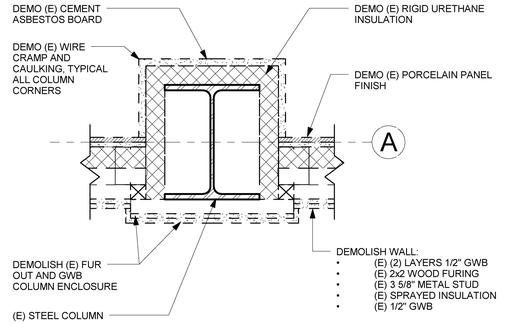
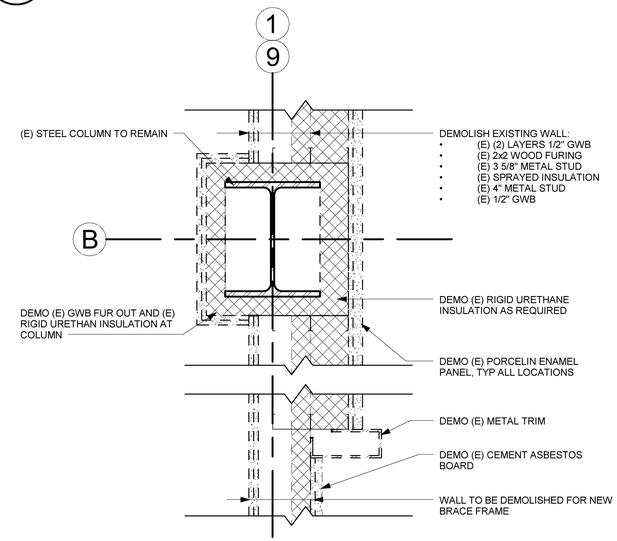
Demolition Wall Sections
A1.3



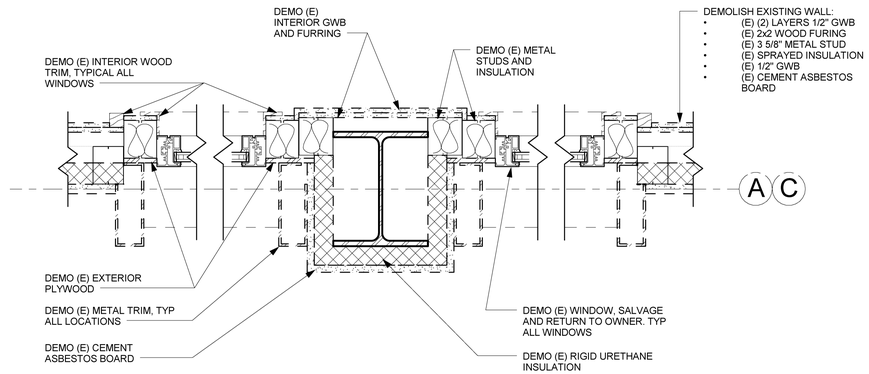
3 / A1.4 Demolition Detail @ North Wall

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



2 / A1.4 Demolition Detail @ East/West Wall

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



1 / A1.4 Demolition Detail Typical Column

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

SHEET NOTE:

1. REFERENCE HAZARDOUS MATERIALS SHEETS H1.1, H1.2 AND H1.3

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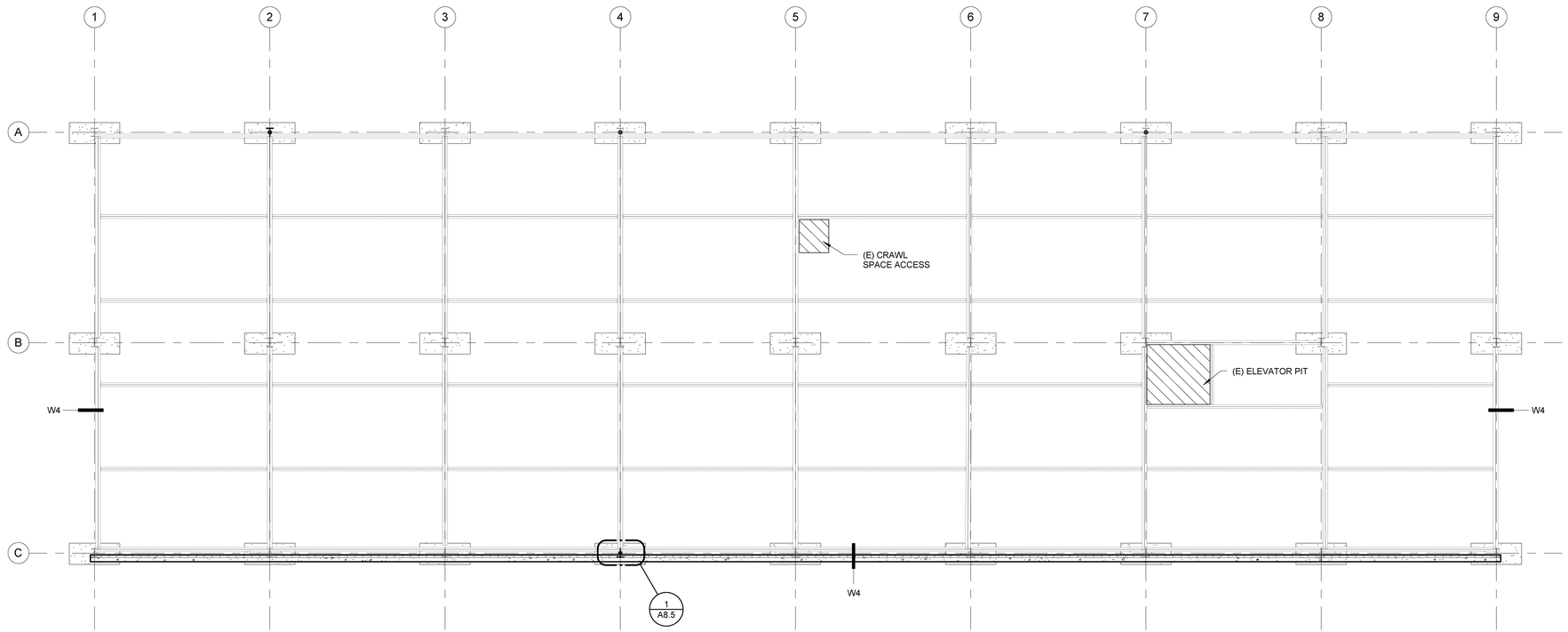
Demolition Details
A1.4

SHEET NOTES:

1. REFERENCE HAZMAT SHEET H1.1 FOR ADDITIONAL DEMOLITION NOTES.
2. REFERENCE MECHANICAL SHEET M1.4 FOR ADDTIONAL MECHANICAL DEMOLITION
3. REFERENCE STRUCTURAL SHEET S1.1 FOR ADDITIONAL INFORMATION ON NEW CONCRETE WORK.
4. REFERENCE CORROSION PROTECTION SHEET CP-1 FOR ADDITIONAL INFORMATION ON CORROSION CONTROL WORK.



1 / A2.1 Basement1
SCALE: 1/8" = 1'-0"

REVISIONS		
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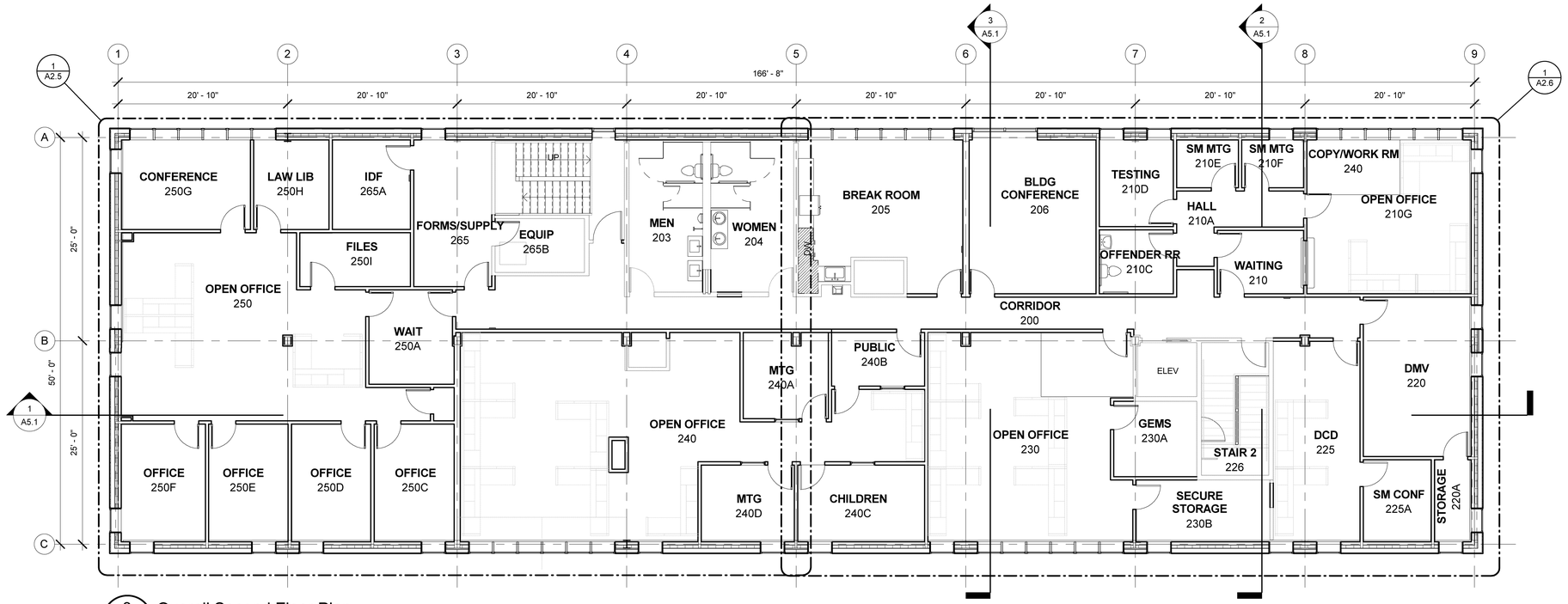
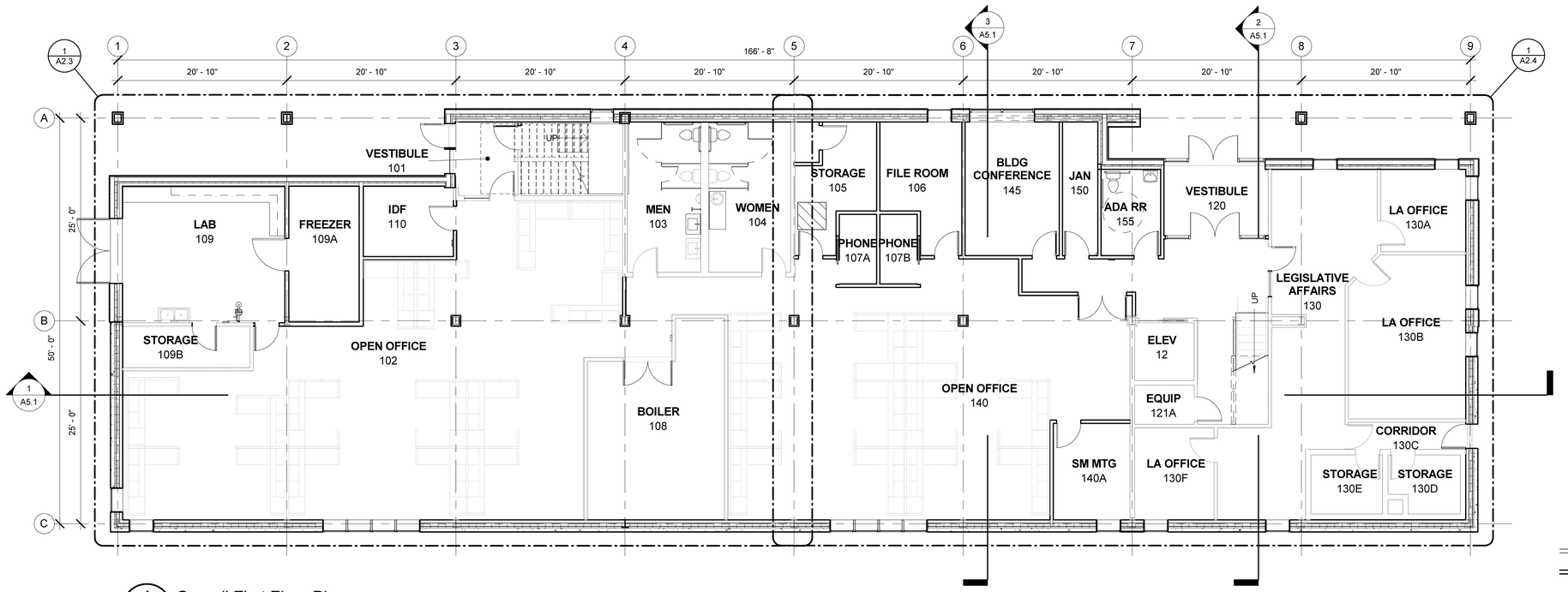
Basement Plan
A2.1



3 A2.2 Overall Second Floor Plan

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



1 A2.2 Overall First Floor Plan

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

LEGEND

EXISTING TO REMAIN

NEW WALL

REVISIONS

No	Description	Date

STATE OF ALASKA 49TH

Eric S. Spangler
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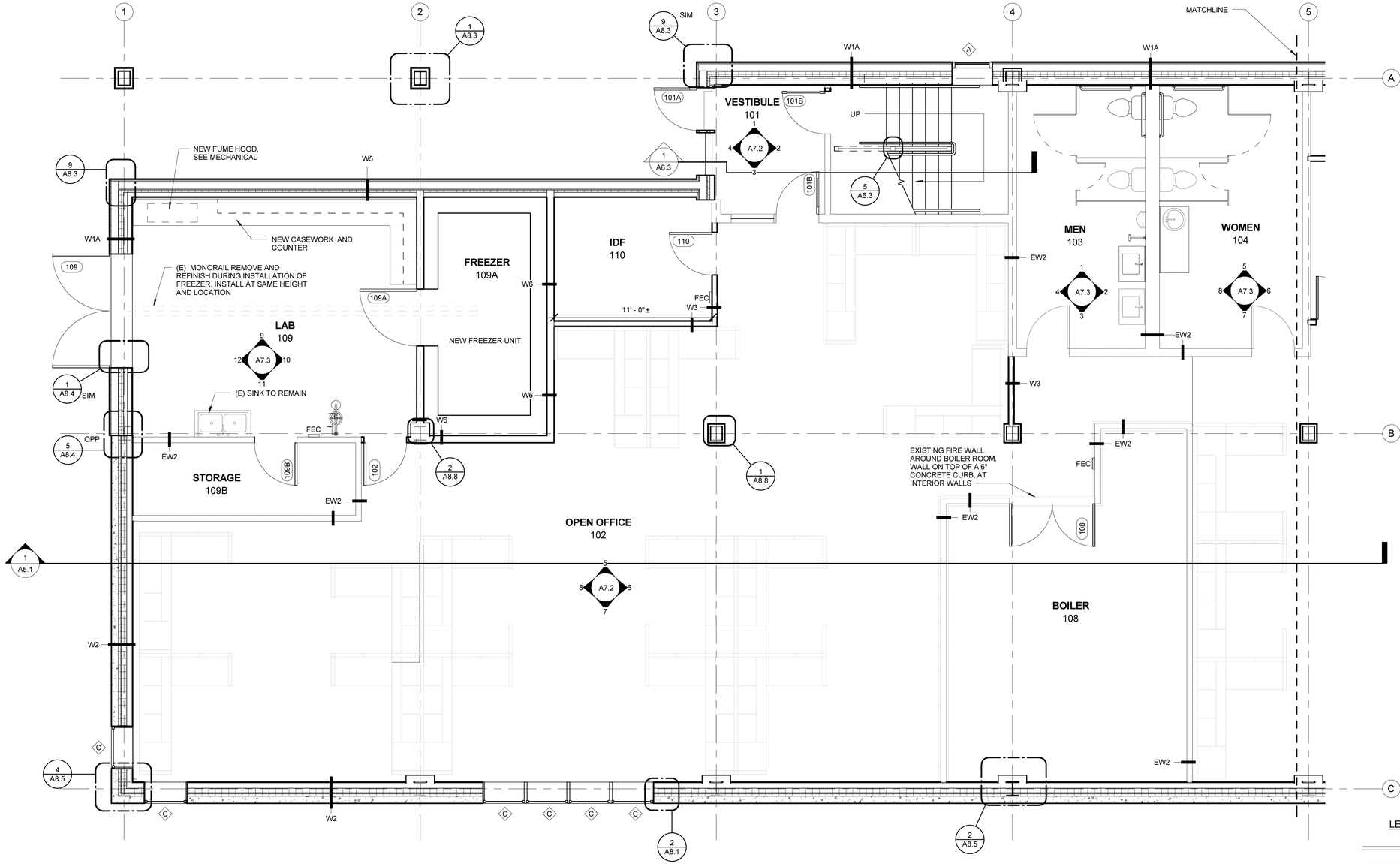
Overall Floor Plans

A2.2

SHEET NOTES
1. ALL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO WORK
2. ALL FURNITURE SHOWN N.I.C, AND TO BE OWNER FURNISHED, OWNER INSTALLED



1 A2.3 First Floor Plan West
SCALE: 1/4" = 1'-0"

LEGEND
EXISTING TO REMAIN
NEW WALL

REVISIONS		
No	Description	Date

STATE OF ALASKA 49TH
Eric S. Spangler No. 10225
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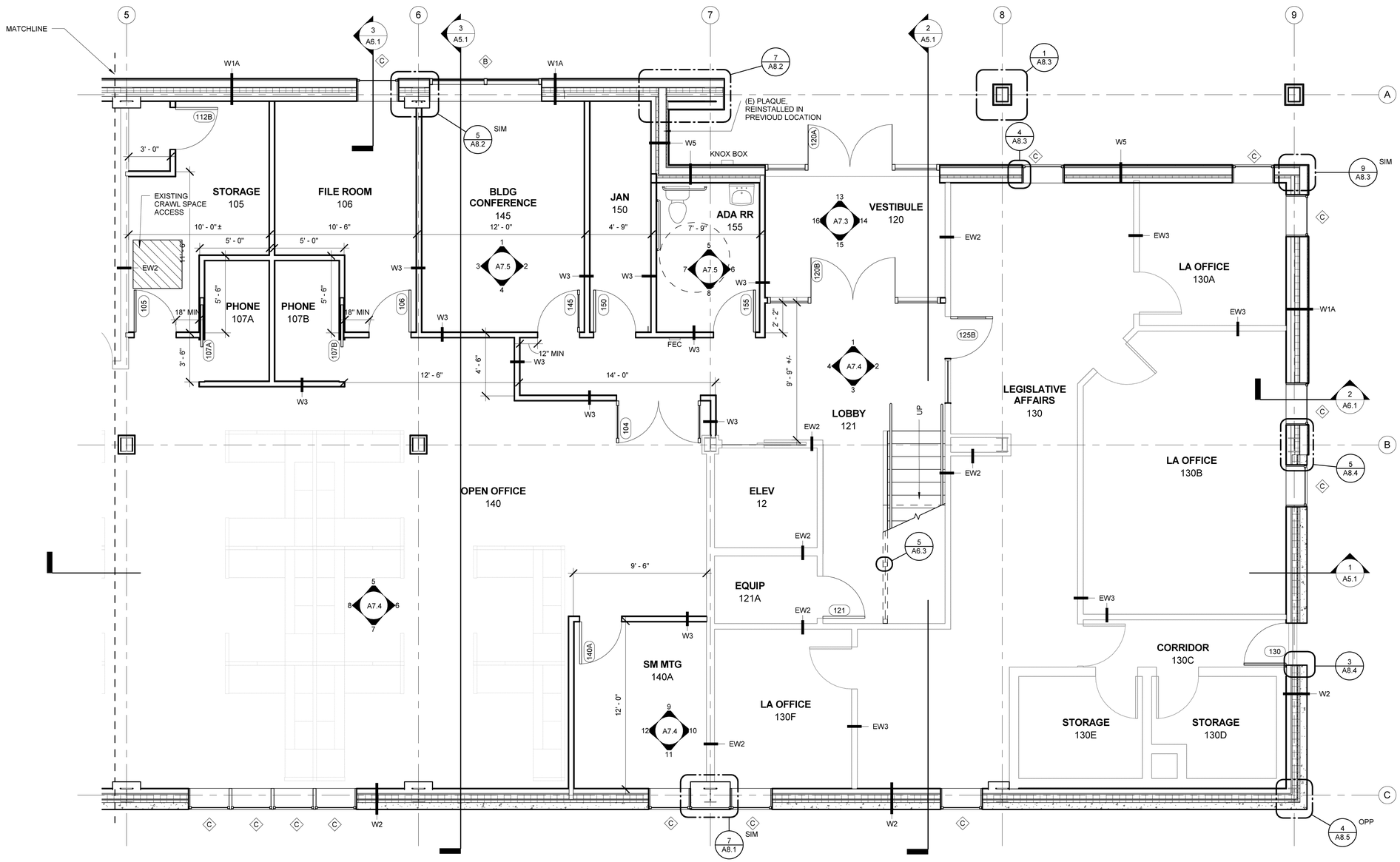
First Floor Plan West
A2.3

SHEET NOTES
1. ALL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO WORK
2. ALL FURNITURE SHOWN N.I.C, AND TO BE OWNER FURNISHED, OWNER INSTALLED



1 A2.4 First Floor Plan East
SCALE: 1/4" = 1'-0"

REVISIONS

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STATE OF ALASKA 49TH
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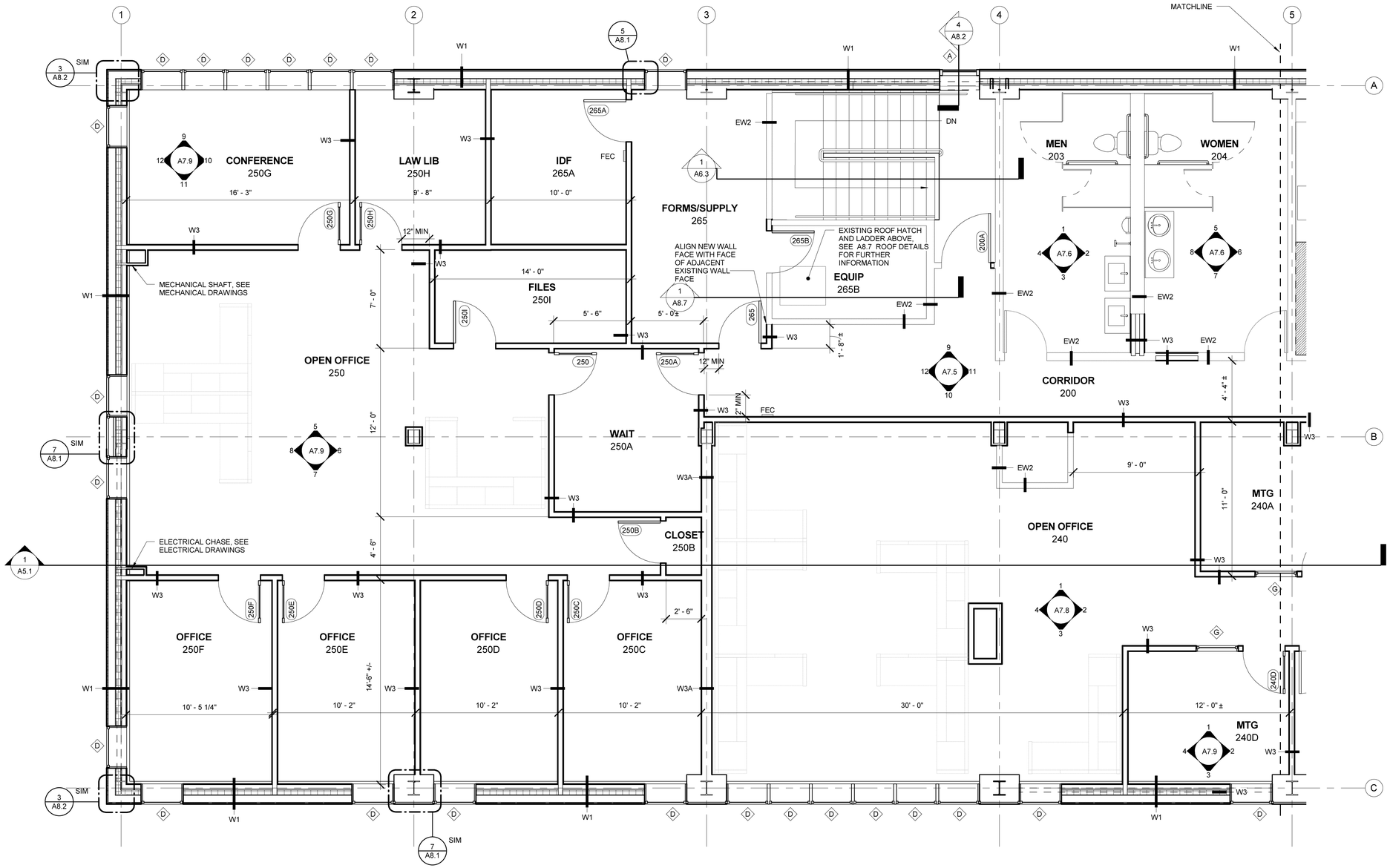
First Floor Plan East
A2.4

SHEET NOTES
1. ALL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO WORK
2. ALL FURNITURE SHOWN N.I.C, AND TO BE OWNER FURNISHED, OWNER INSTALLED



1 / A2.5 Second Floor Plan West
SCALE: 1/4" = 1'-0"

REVISIONS

No	Description	Date

STATE OF ALASKA 49TH
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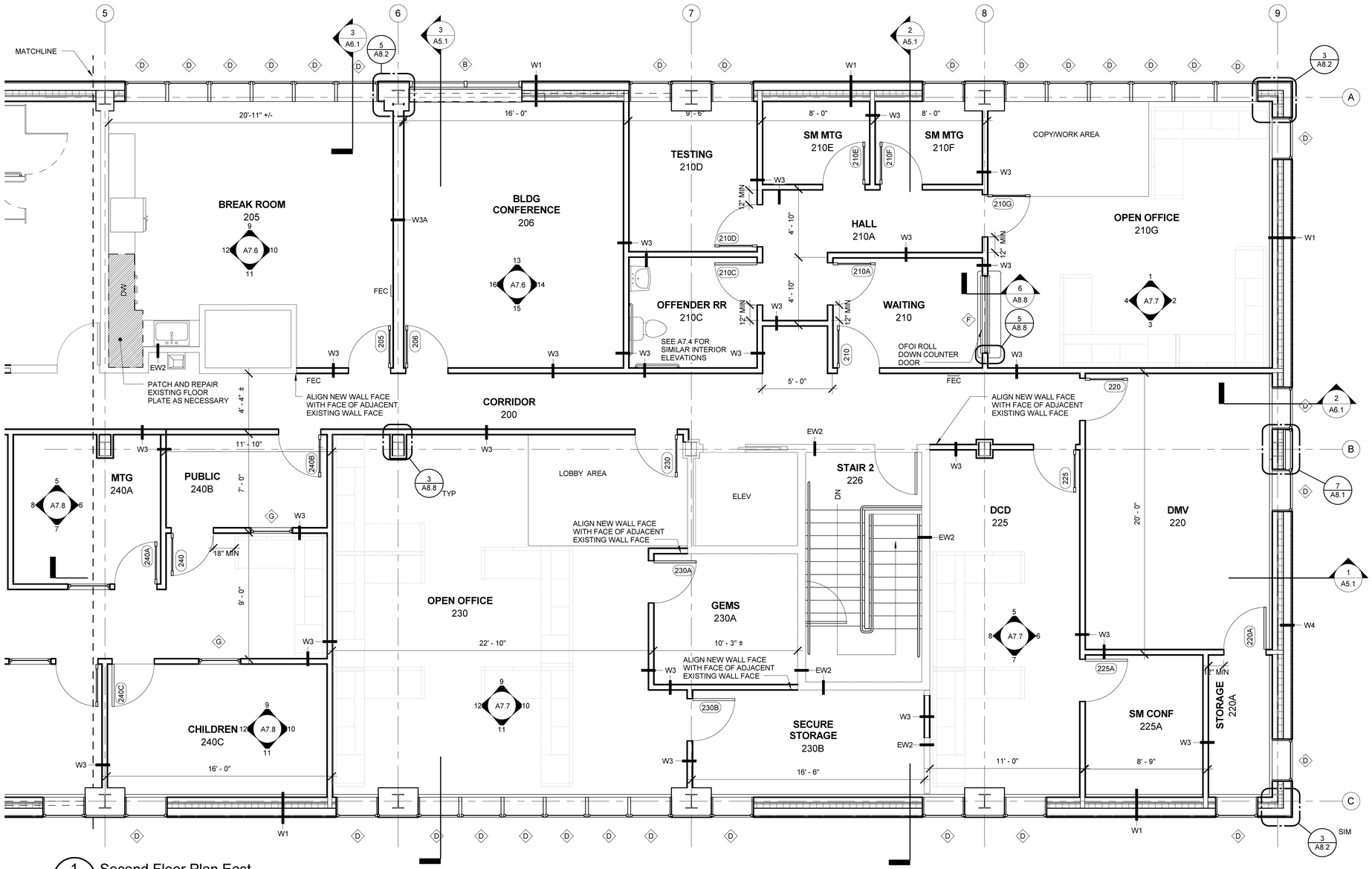
Second Floor Plan West
A2.5

SHEET NOTES
1. ALL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO WORK
2. ALL FURNITURE SHOWN N.I.C; AND TO BE OWNER FURNISHED, OWNER INSTALLED



1 A2.6 Second Floor Plan East
SCALE: 1/4" = 1'-0"

REVISIONS

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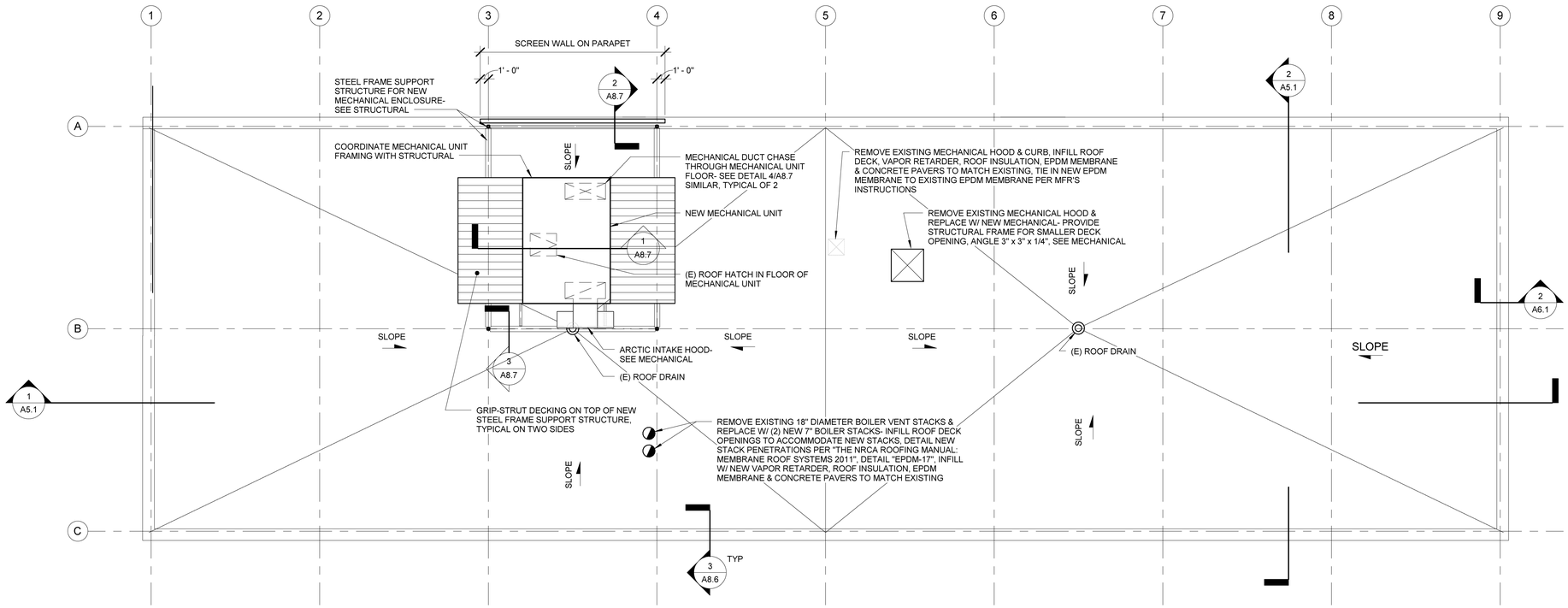
Second Floor Plan East
A2.6



1 / A2.7 Roof Plan

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

REVISIONS

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STATE OF ALASKA 49TH
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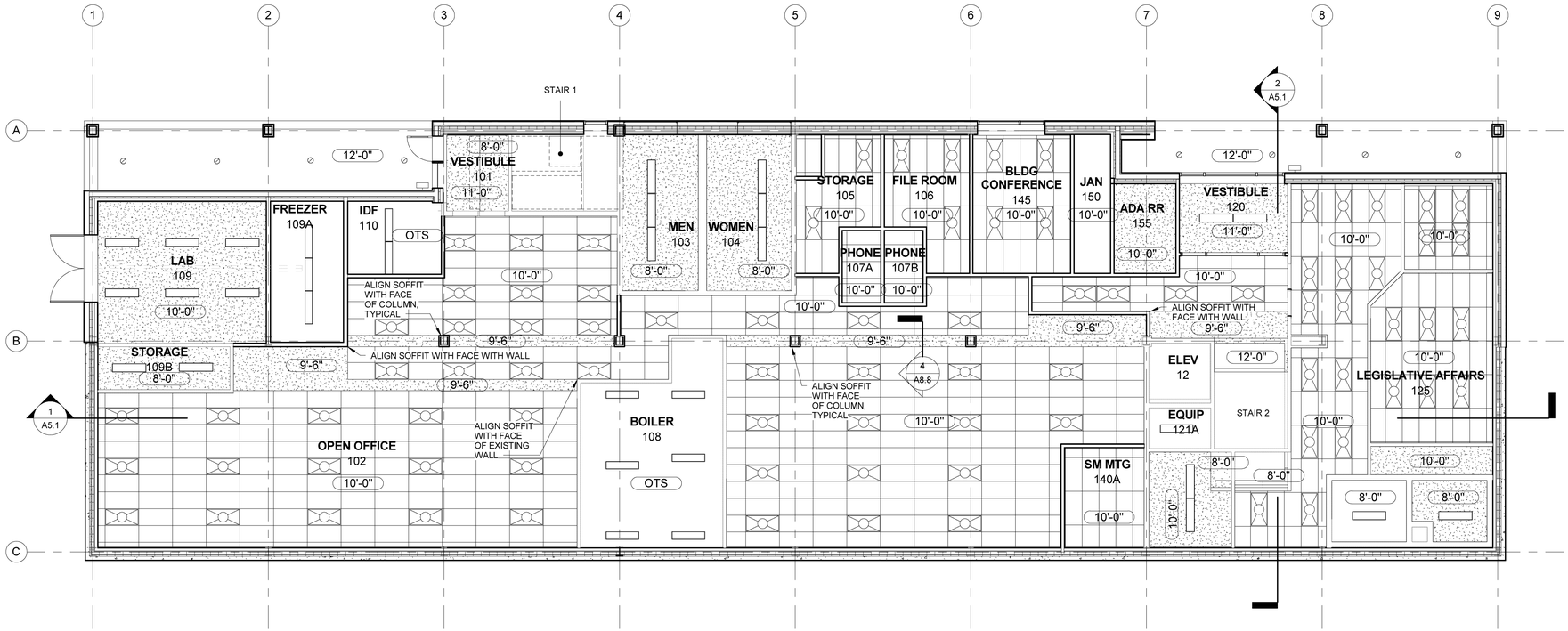
Roof Plan
A2.7

RCP LEGEND

SUSPENDED GWB CEILING OR METAL STUD FRAMED SOFFIT

2 X 4 ACT CEILING



1 A3.1 First Floor

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

REVISIONS

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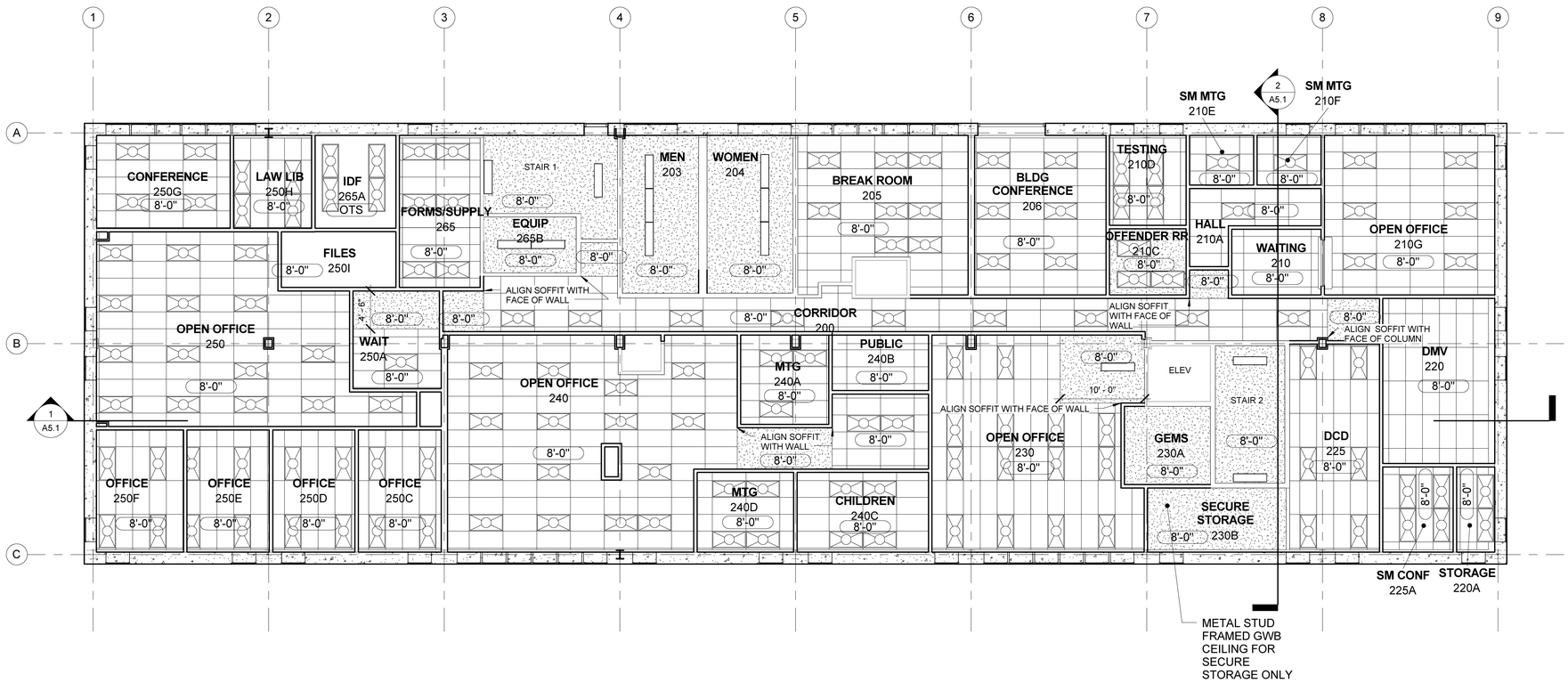
First Floor Reflected Ceiling Plan

A3.1

RCP LEGEND

SUSPENDED GWB CEILING OR METAL STUD FRAMED SOFFIT

2 X 4 ACT CEILING



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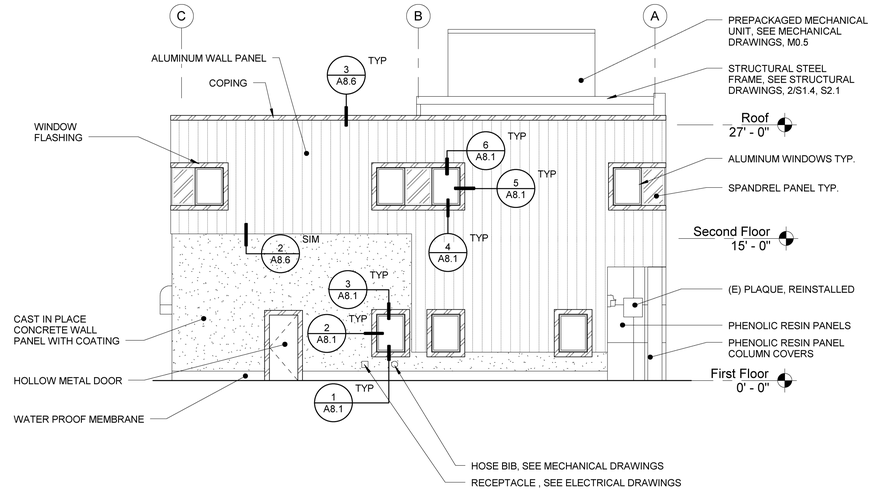
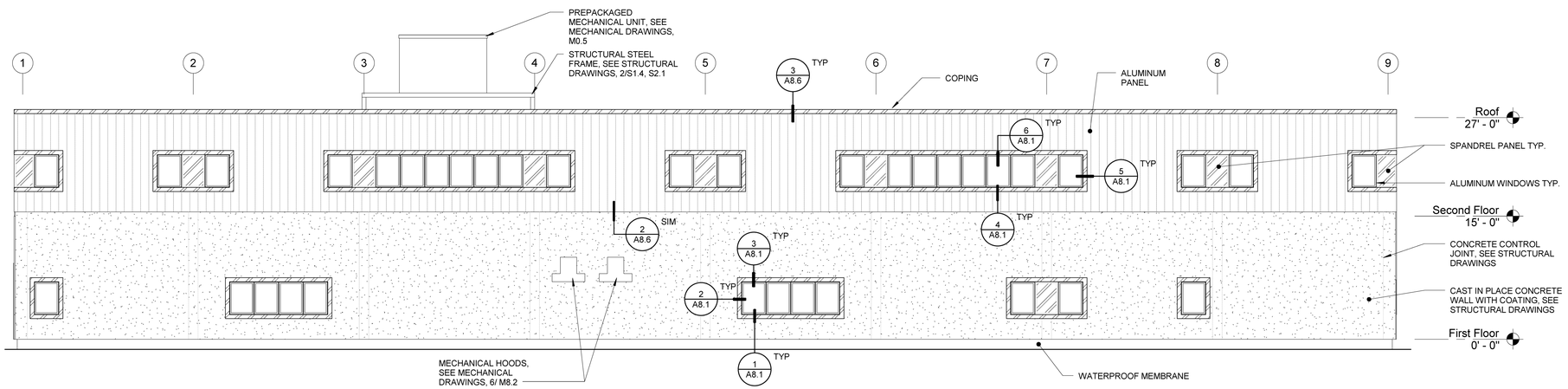
Second Floor Reflected Ceiling Plan

A3.2

SHEET NOTES
1. ALL WINDOWS ON FIRST FLOOR TO HAVE SAFETY SECURITY FILM SEE GLAZING SPECIFICATIONS



2 A4.1 Exterior Elevation - East
SCALE: 1/8" = 1'-0"



1 A4.1 Exterior Elevation - South
SCALE: 1/8" = 1'-0"

REVISIONS

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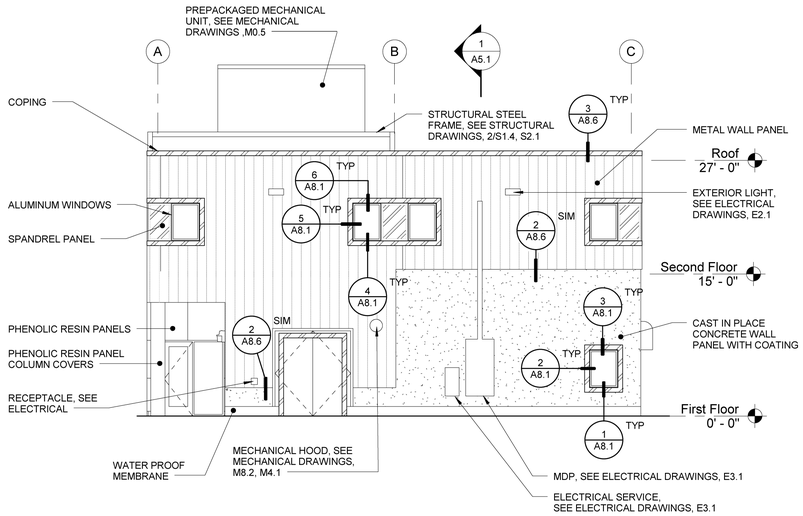
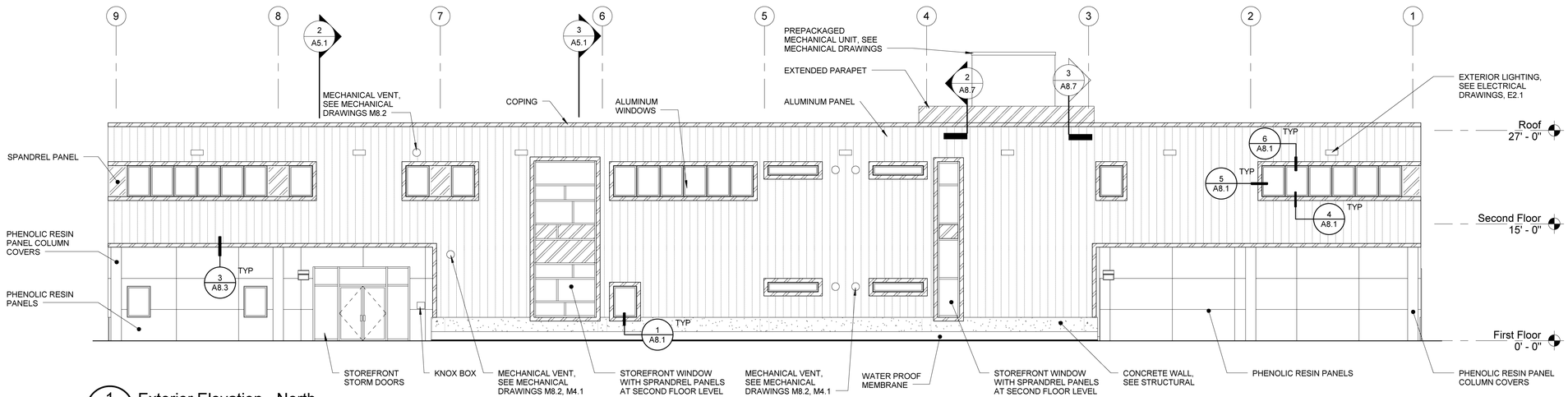
Exterior Elevations
A4.1

SHEET NOTES
1. ALL WINDOWS ON FIRST FLOOR TO HAVE SAFETY SECURITY FILM SEE GLAZING SPECIFICATIONS



2 A4.2 Exterior Elevation - West
SCALE: 1/8" = 1'-0"



1 A4.2 Exterior Elevation - North
SCALE: 1/8" = 1'-0"

REVISIONS

No	Description	Date

STATE OF ALASKA 49TH
Eric S. Spangler No.10225
REGISTERED PROFESSIONAL ARCHITECT

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Documents
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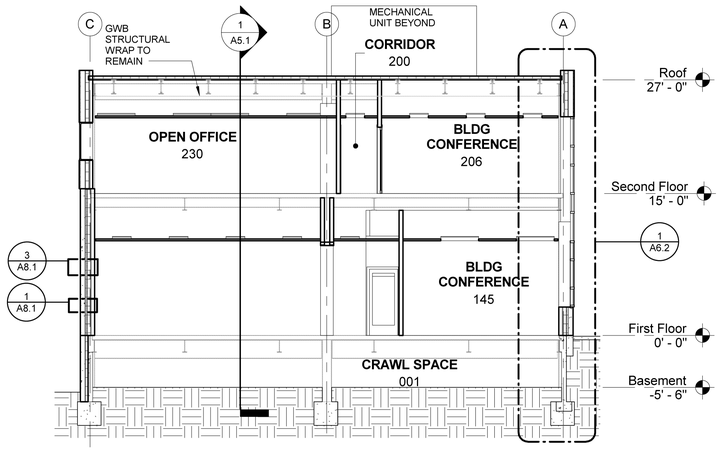
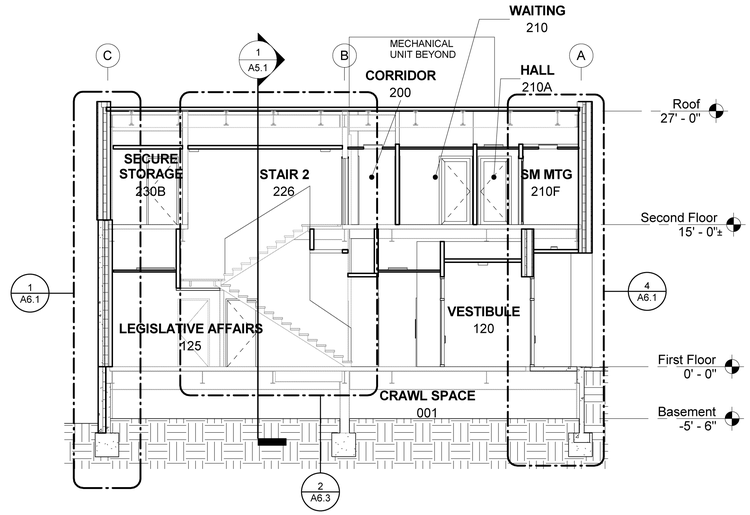
Exterior Elevations
A4.2



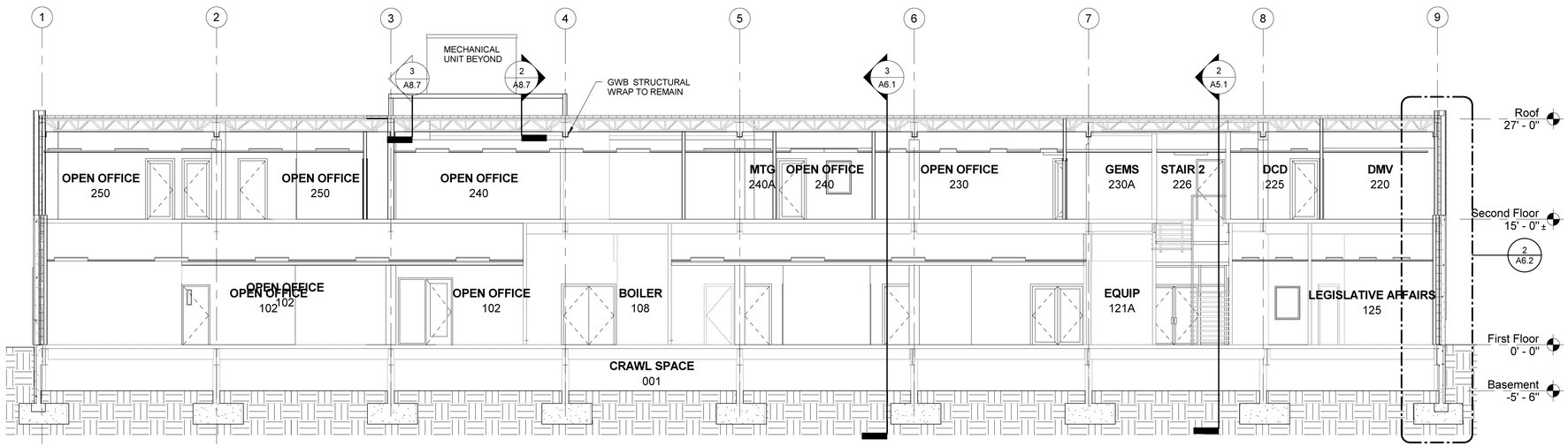
3 A5.1 Brace Frame Section

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



2 A5.1 Section 2

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



1 A5.1 Section 1

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

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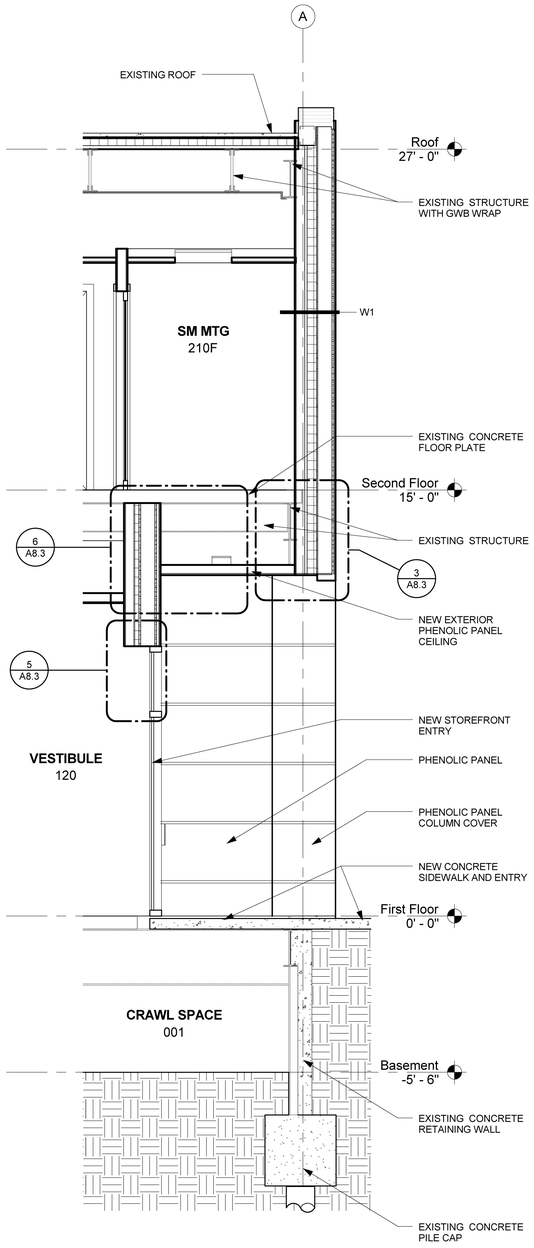
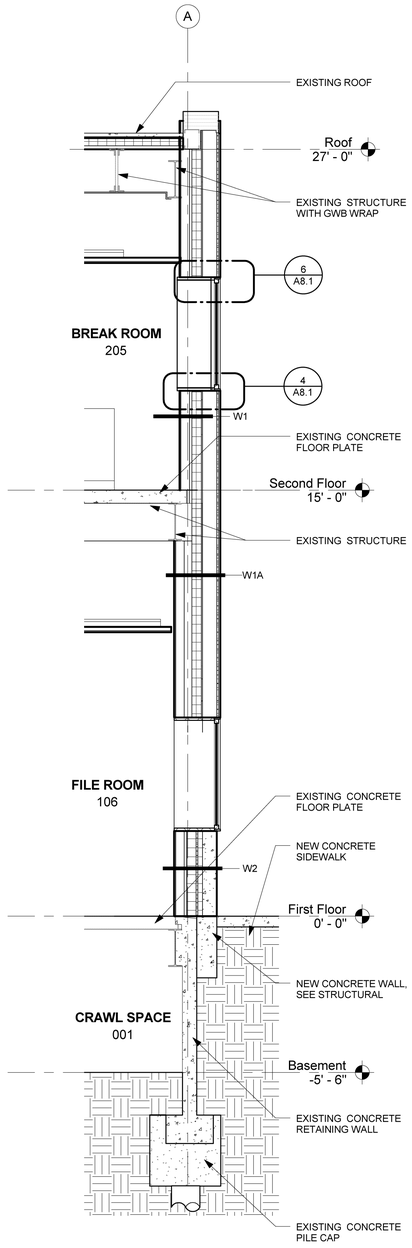
Building Sections

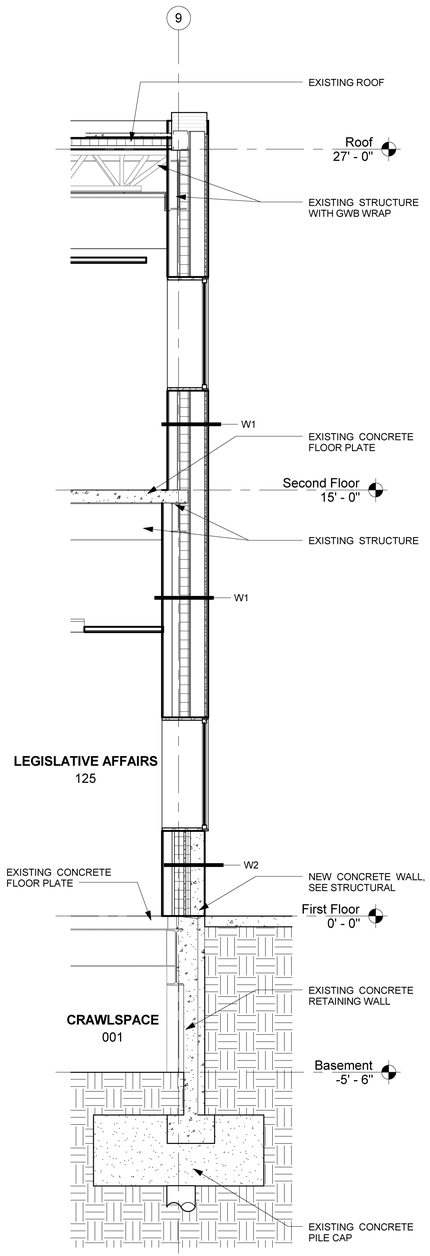
A5.1



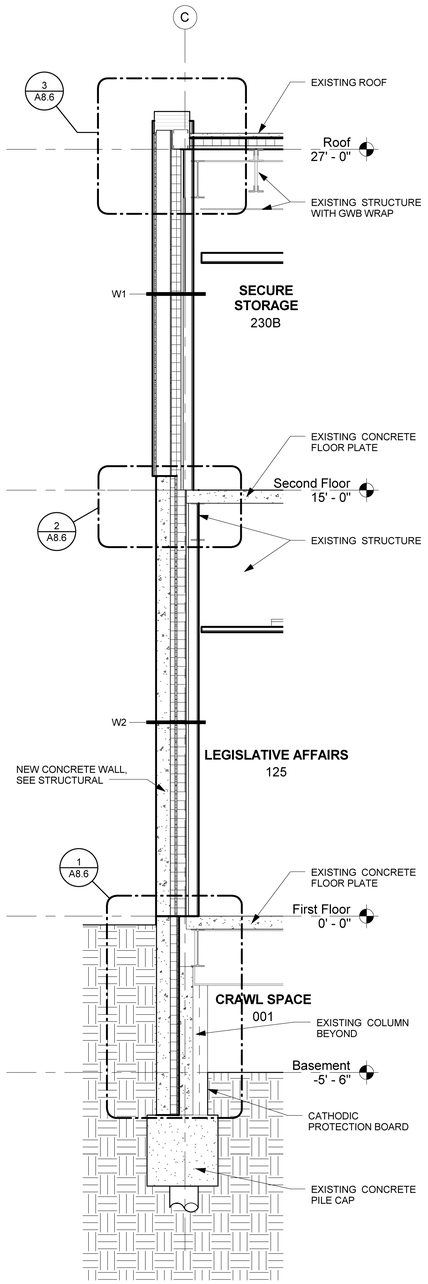
4 A6.1 Wall Section (North Entry)
SCALE: 3/8" = 1'-0"



3 A6.1 Wall Section (North)
SCALE: 3/8" = 1'-0"



2 A6.1 Wall Section (West)
SCALE: 3/8" = 1'-0"



1 A6.1 Wall Section (South)
SCALE: 3/8" = 1'-0"

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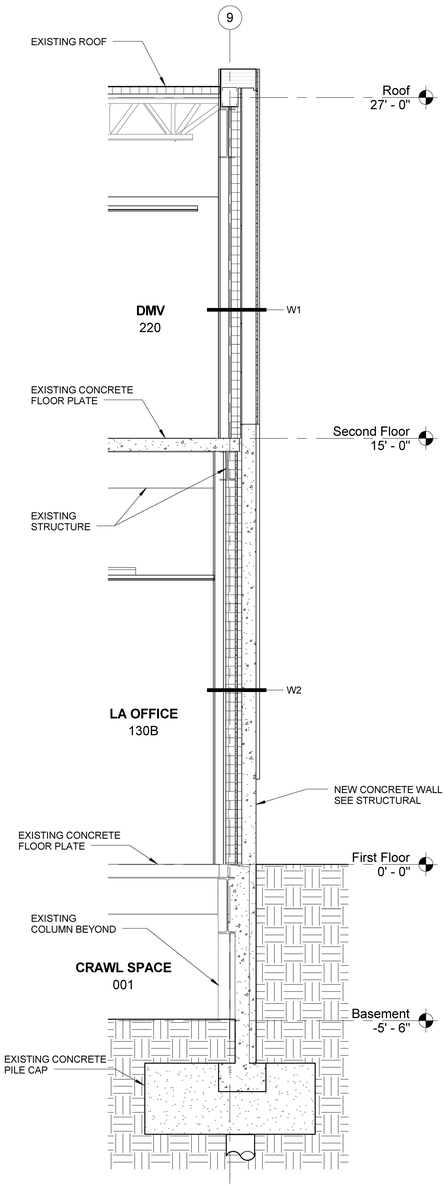
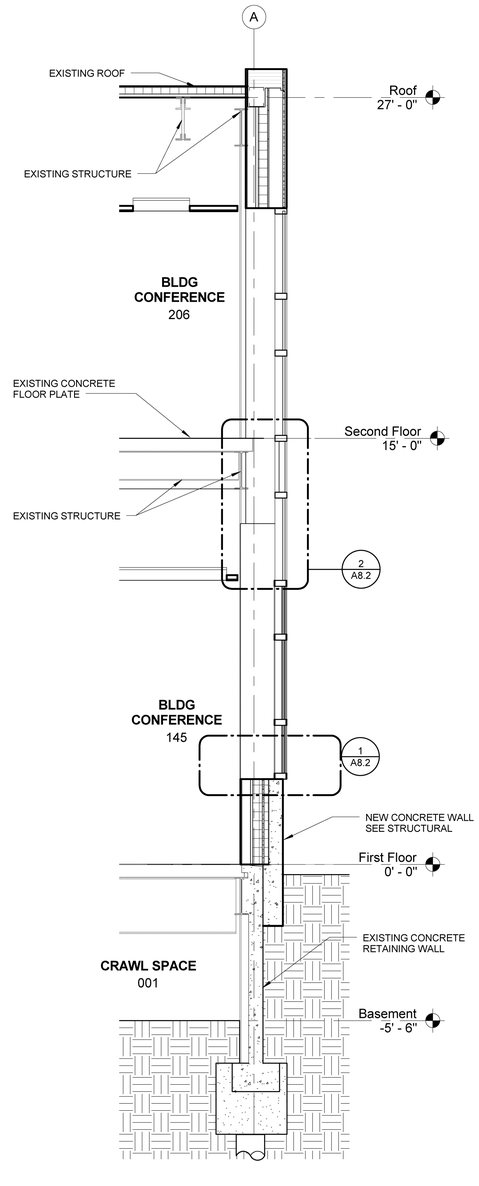
Wall Sections
A6.1



2 / A6.2 Wall Section (Concrete and Brace Frame)
SCALE: 3/8" = 1'-0"



1 / A6.2 Wall Section (Curtain Wall)
SCALE: 3/8" = 1'-0"

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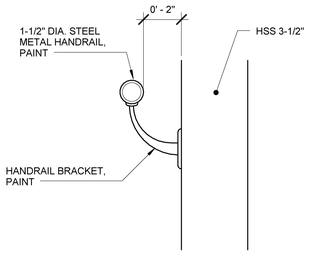
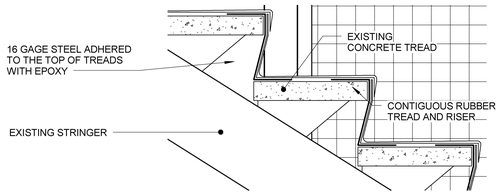
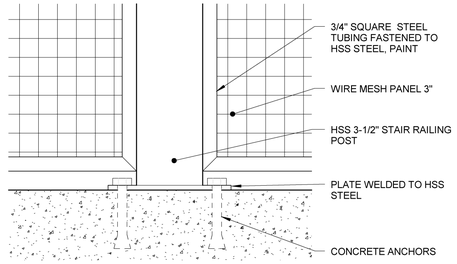
Wall Sections
A6.2



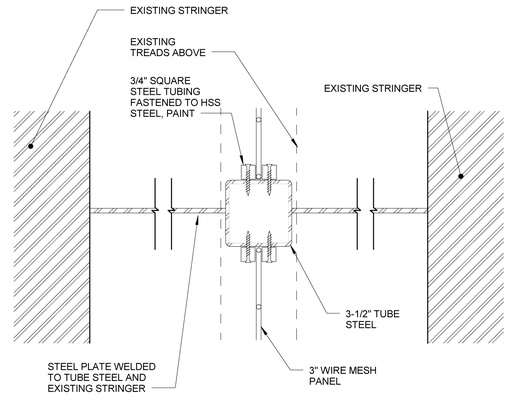
8 A6.3 **Handrail Detail**
SCALE: 3" = 1'-0"



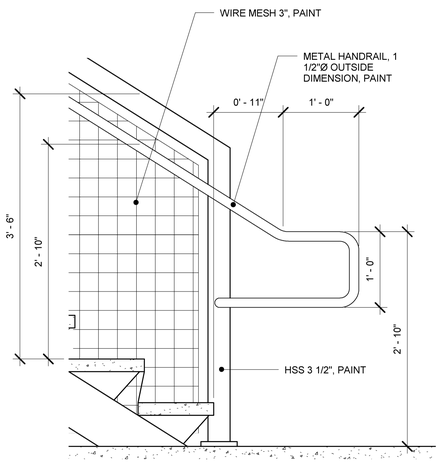
7 A6.3 **Stair Riser Detail**
SCALE: 1 1/2" = 1'-0"



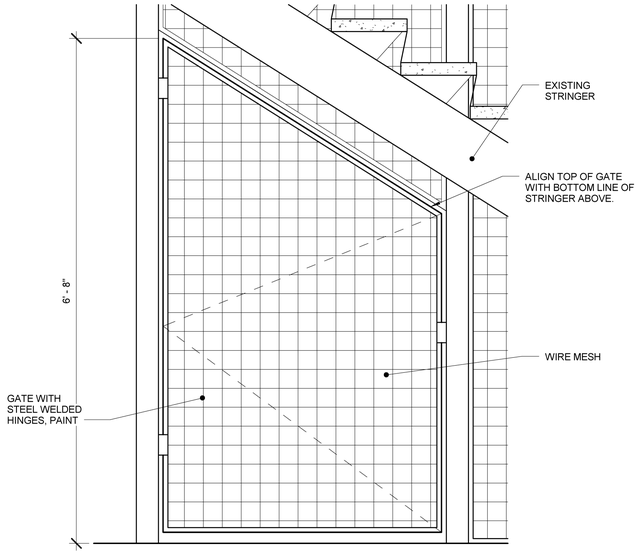
6 A6.3 **Stair Railing Base Detail**
SCALE: 3" = 1'-0"



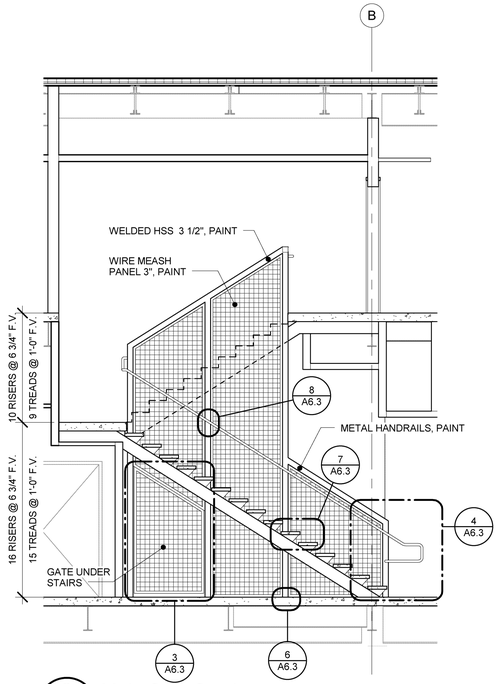
5 A6.3 **Stringer / Post Connection**
SCALE: 3" = 1'-0"



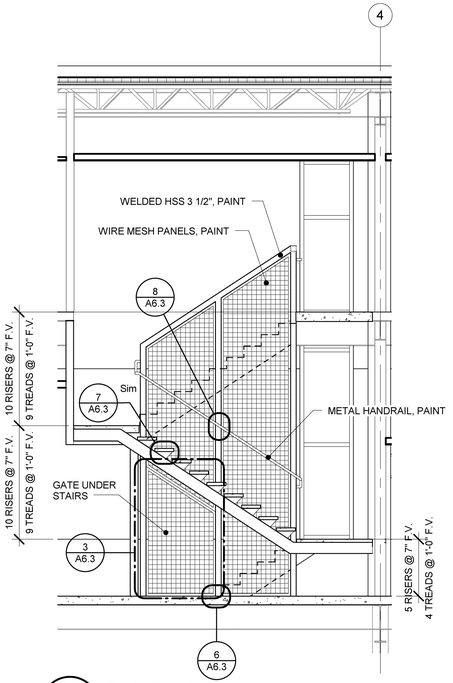
4 A6.3 **Stair Detail**
SCALE: 1" = 1'-0"



3 A6.3 **Under Stair Gate Detail**
SCALE: 1" = 1'-0"



2 A6.3 **Main Stair Section**
SCALE: 1/4" = 1'-0"



1 A6.3 **Stair Section**
SCALE: 1/4" = 1'-0"

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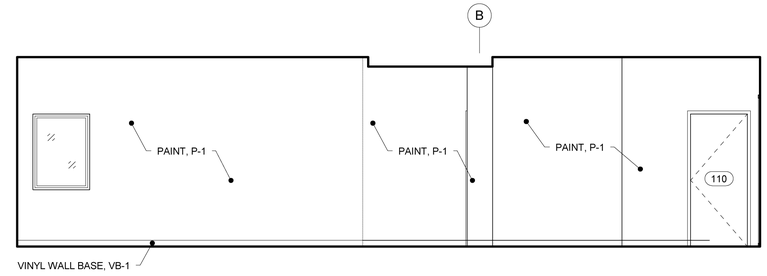
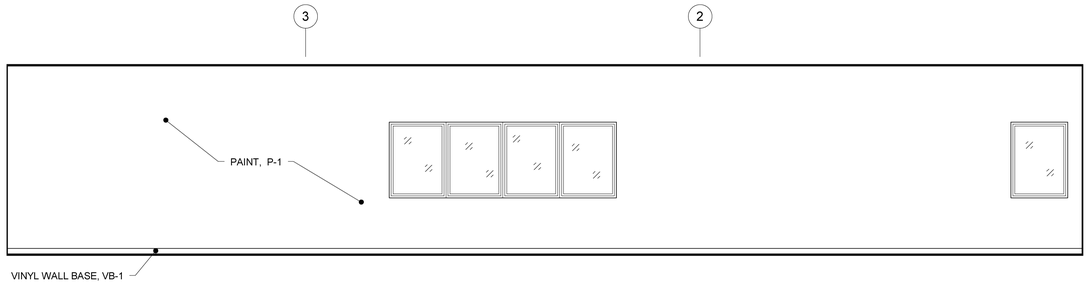
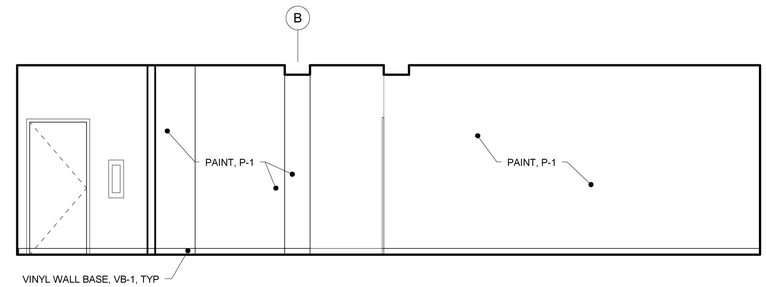
Stair Sections and Details
A6.3



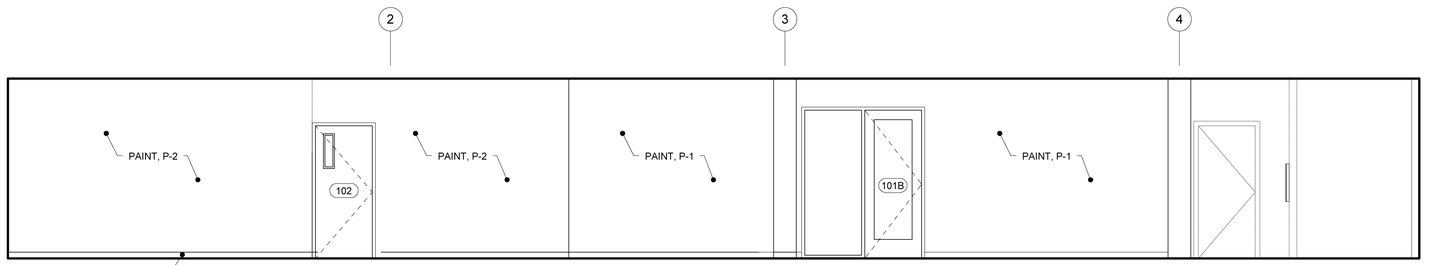
8 A7.2 Open Office 102 - West
SCALE: 1/4" = 1'-0"



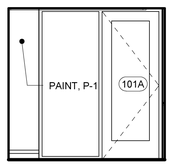
7 A7.2 Open Office 102 - South
SCALE: 1/4" = 1'-0"



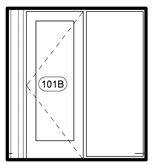
6 A7.2 Open Office 102 - East
SCALE: 1/4" = 1'-0"



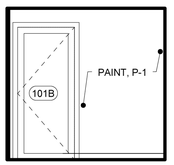
5 A7.2 Open Office 102- North
SCALE: 1/4" = 1'-0"



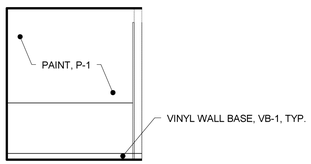
4 A7.2 Vestibule 101 - West
SCALE: 1/4" = 1'-0"



3 A7.2 Vestibule 101 - South
SCALE: 1/4" = 1'-0"



2 A7.2 Vestibule 101 - East
SCALE: 1/4" = 1'-0"



1 A7.2 Vestibule 101 - North
SCALE: 1/4" = 1'-0"

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Nome State Office Building Remodel

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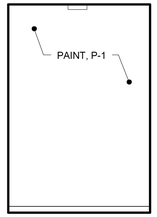
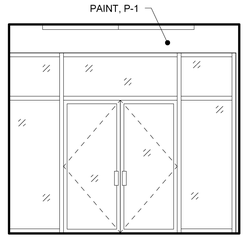
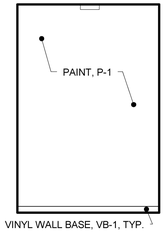
Interior Elevations
A7.2



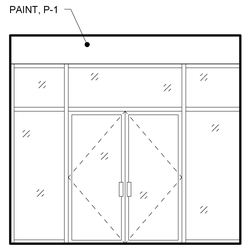
16 A7.3 Vestibule 120 - West
SCALE: 1/4" = 1'-0"



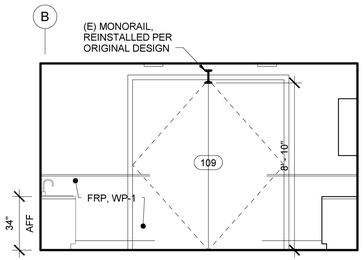
15 A7.3 Vestibule 120 - South
SCALE: 1/4" = 1'-0"



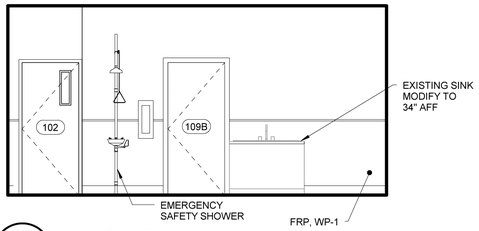
14 A7.3 Vestibule 120 - East
SCALE: 1/4" = 1'-0"



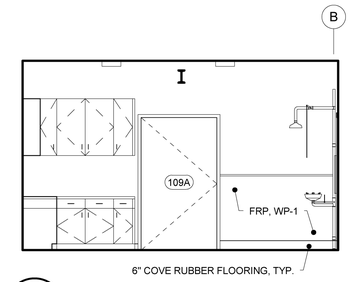
13 A7.3 Vestibule 120 - North
SCALE: 1/4" = 1'-0"



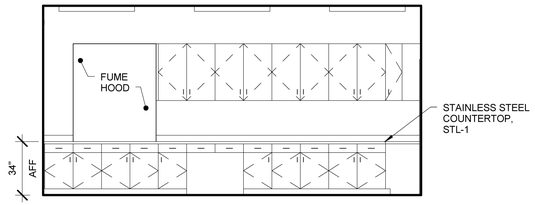
12 A7.3 Lab 109 - West
SCALE: 1/4" = 1'-0"



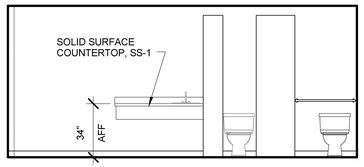
11 A7.3 Lab 109 - South
SCALE: 1/4" = 1'-0"



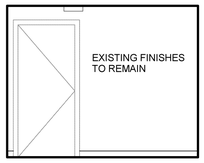
10 A7.3 Lab 109 - East
SCALE: 1/4" = 1'-0"



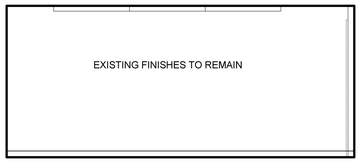
9 A7.3 Lab 109 - North
SCALE: 1/4" = 1'-0"



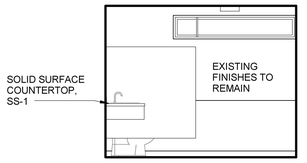
8 A7.3 Women 104 - West
SCALE: 1/4" = 1'-0"



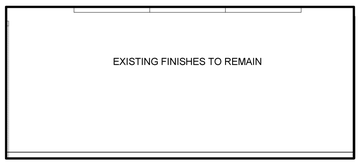
7 A7.3 Women 104 - South
SCALE: 1/4" = 1'-0"



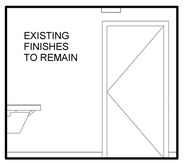
6 A7.3 Women 104 - East
SCALE: 1/4" = 1'-0"



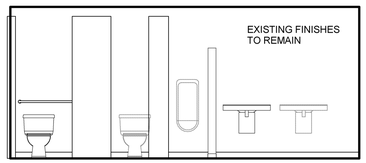
5 A7.3 Women 104 - North
SCALE: 1/4" = 1'-0"



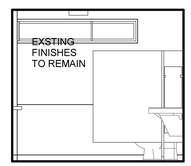
4 A7.3 Men 103 - West
SCALE: 1/4" = 1'-0"



3 A7.3 Men 103 - South
SCALE: 1/4" = 1'-0"



2 A7.3 Men 103 - East
SCALE: 1/4" = 1'-0"



1 A7.3 Men 103 - North
SCALE: 1/4" = 1'-0"

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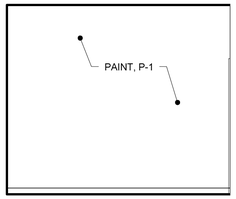
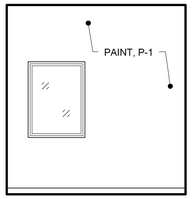
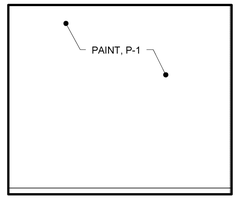
A7.3



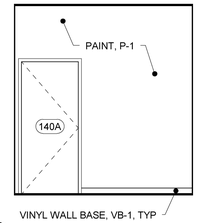
12 A7.4 Small Meeting 140A - West
SCALE: 1/4" = 1'-0"



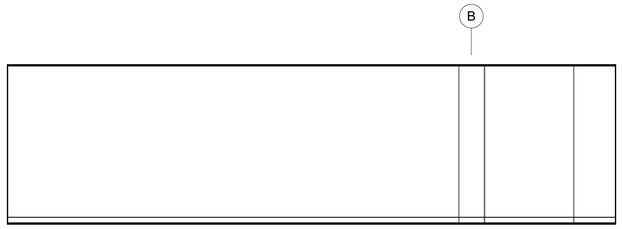
11 A7.4 Small Meeting 140A - South
SCALE: 1/4" = 1'-0"



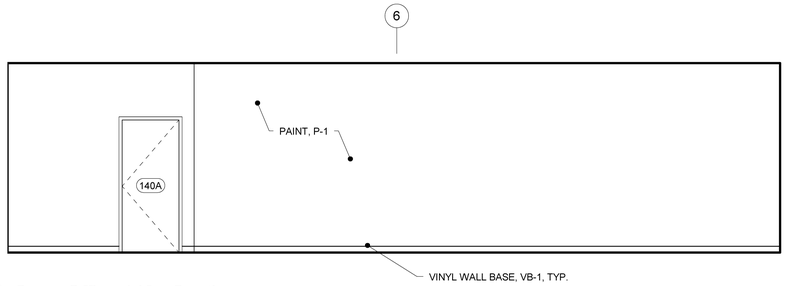
10 A7.4 Small Meeting140A - East
SCALE: 1/4" = 1'-0"



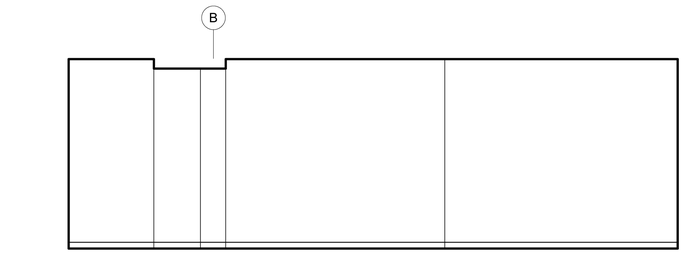
9 A7.4 Small Meeting 140A - North
SCALE: 1/4" = 1'-0"



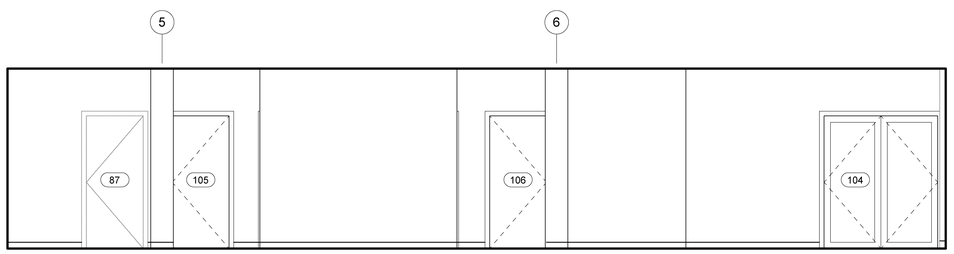
8 A7.4 Open Office 140 - West
SCALE: 1/4" = 1'-0"



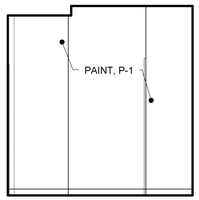
7 A7.4 Open Office 140 - South
SCALE: 1/4" = 1'-0"



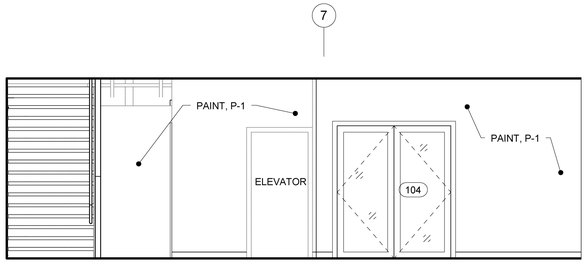
6 A7.4 Open Office 140 - East
SCALE: 1/4" = 1'-0"



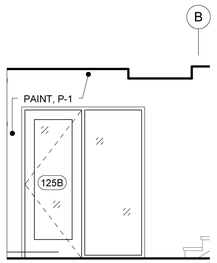
5 A7.4 Open Office 140 - North
SCALE: 1/4" = 1'-0"



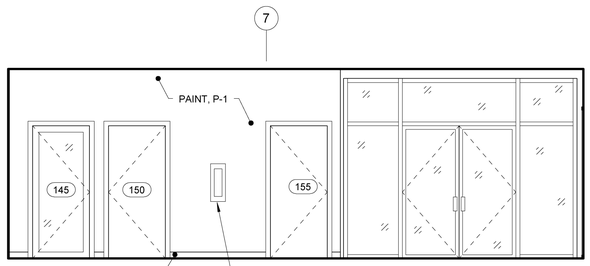
4 A7.4 Lobby 121 - West
SCALE: 1/4" = 1'-0"



3 A7.4 Lobby 121 - South
SCALE: 1/4" = 1'-0"



2 A7.4 Lobby 121 - East
SCALE: 1/4" = 1'-0"



1 A7.4 Lobby 121 - North
SCALE: 1/4" = 1'-0"

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STATE OF ALASKA
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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

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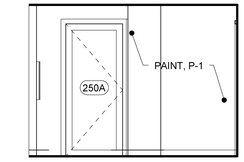
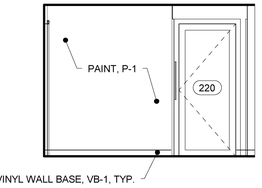
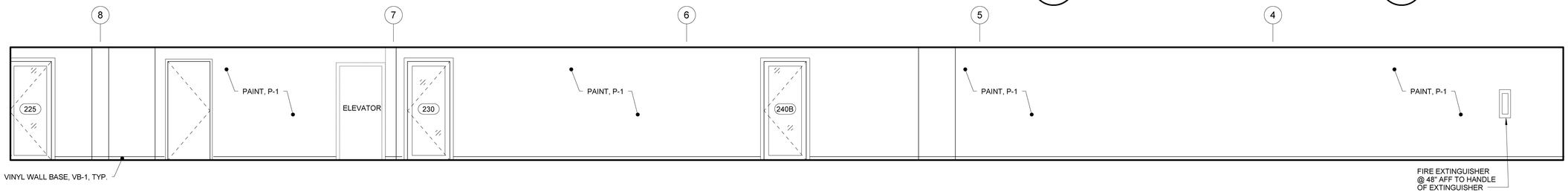
A7.4



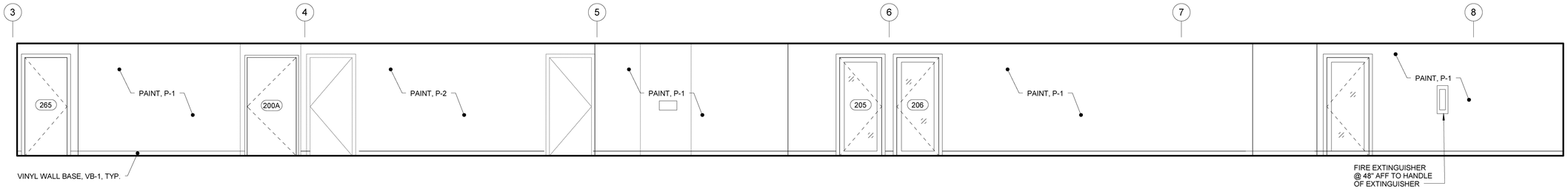
12 A7.5 Corridor 200 - West
SCALE: 1/4" = 1'-0"



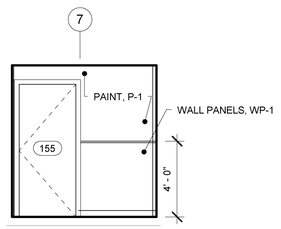
11 A7.5 Corridor 200 - East
SCALE: 1/4" = 1'-0"



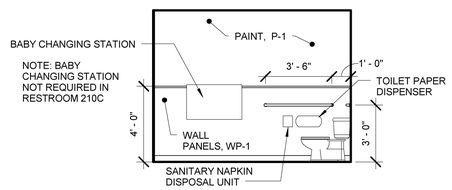
10 A7.5 Corridor 200 - South
SCALE: 1/4" = 1'-0"



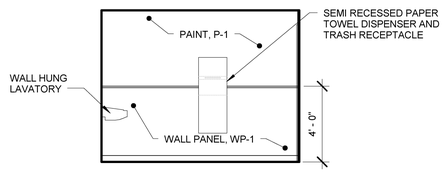
9 A7.5 Corridor 200 - North
SCALE: 1/4" = 1'-0"



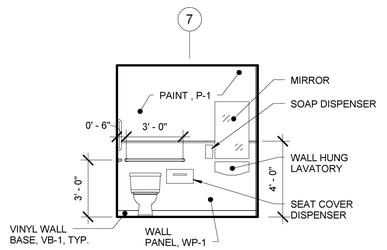
8 A7.5 Accessible Restroom 155 - South
SCALE: 1/4" = 1'-0"



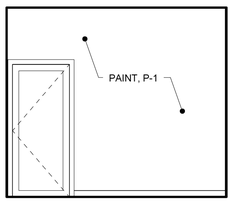
7 A7.5 Accessible Restroom 155 - West
SCALE: 1/4" = 1'-0"



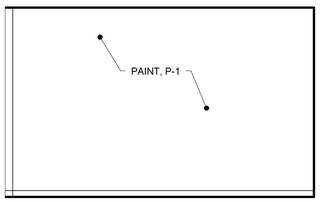
6 A7.5 Accessible Restroom 155 - East
SCALE: 1/4" = 1'-0"



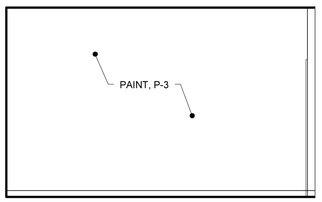
5 A7.5 Accessible Restroom 155 - North
SCALE: 1/4" = 1'-0"



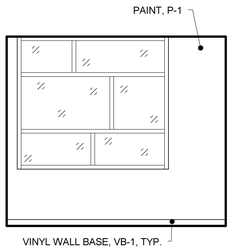
4 A7.5 Building Conference 145 - South
SCALE: 1/4" = 1'-0"



3 A7.5 Building Conference 145 - West
SCALE: 1/4" = 1'-0"



2 A7.5 Building Conference 145 - East
SCALE: 1/4" = 1'-0"



1 A7.5 Building Conference 145 - North
SCALE: 1/4" = 1'-0"

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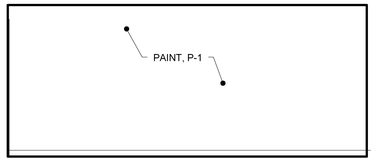
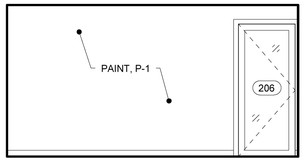
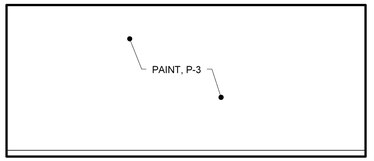
A7.5



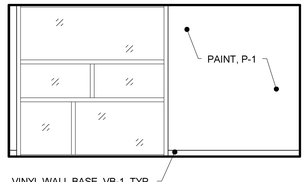
16 A7.6 Building Conference 206 - West
SCALE: 1/4" = 1'-0"



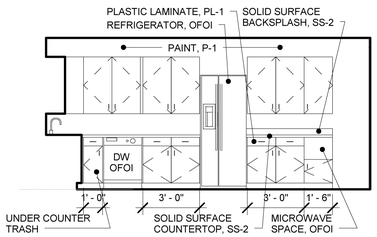
15 A7.6 Building Conference 206 - South
SCALE: 1/4" = 1'-0"



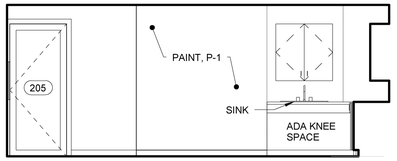
14 A7.6 Building Conference 206 - East
SCALE: 1/4" = 1'-0"



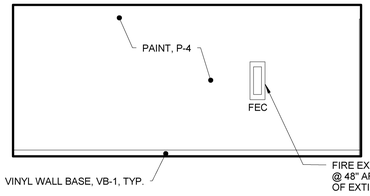
13 A7.6 Building Conference 206 - North
SCALE: 1/4" = 1'-0"



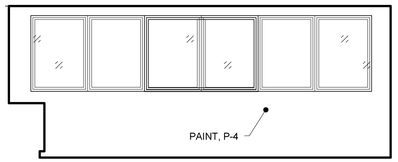
12 A7.6 Break Room 205 - West
SCALE: 1/4" = 1'-0"



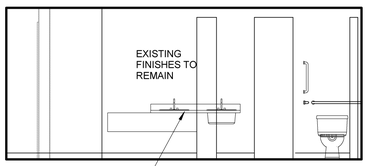
11 A7.6 Break Room 205 - South
SCALE: 1/4" = 1'-0"



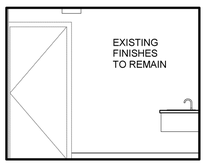
10 A7.6 Break Room 205 - East
SCALE: 1/4" = 1'-0"



9 A7.6 Break Room 205- North
SCALE: 1/4" = 1'-0"

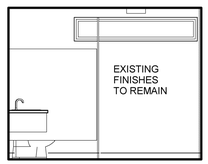


8 A7.6 Women 204 - West
SCALE: 1/4" = 1'-0"

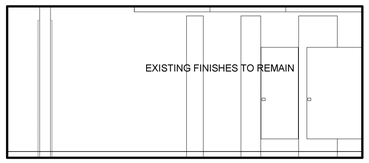


7 A7.6 Women 204 - South
SCALE: 1/4" = 1'-0"

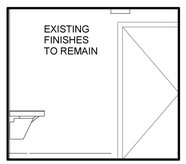
6 A7.6 Women 204 - East
SCALE: 1/4" = 1'-0"



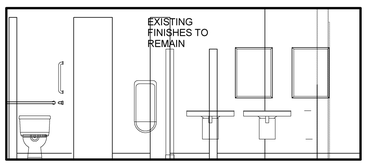
5 A7.6 Women 204 - North
SCALE: 1/4" = 1'-0"



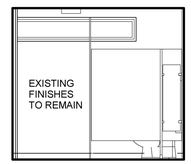
4 A7.6 Men 203 - West
SCALE: 1/4" = 1'-0"



3 A7.6 Men 203 - South
SCALE: 1/4" = 1'-0"



2 A7.6 Men 203 - East
SCALE: 1/4" = 1'-0"



1 A7.6 Men 203 - North
SCALE: 1/4" = 1'-0"

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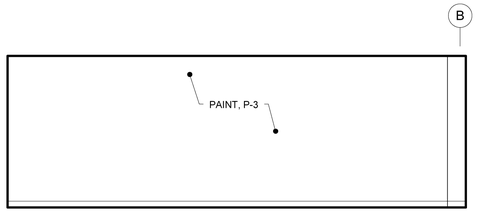
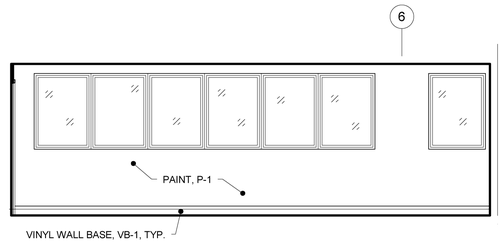
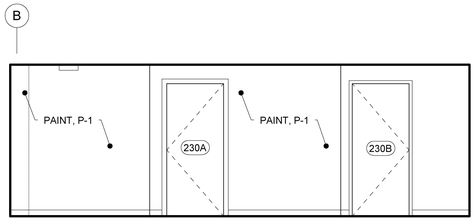


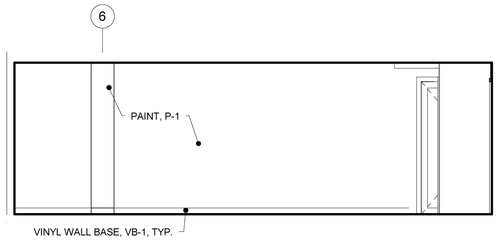
12 A7.7 Open Office 230 - West
SCALE: 1/4" = 1'-0"



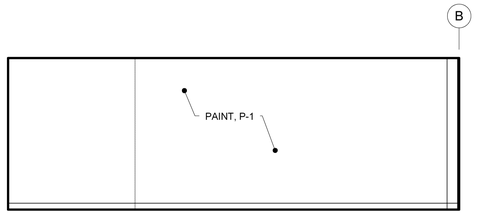
11 A7.7 Open Office 230 - South
SCALE: 1/4" = 1'-0"



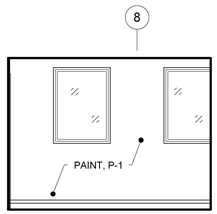
10 A7.7 Open Office 230 - East
SCALE: 1/4" = 1'-0"



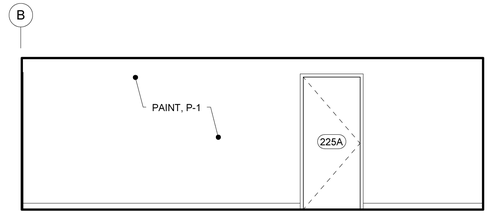
9 A7.7 Open Office 230 - North
SCALE: 1/4" = 1'-0"



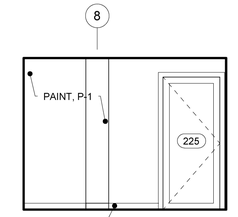
8 A7.7 DCD 225 - West
SCALE: 1/4" = 1'-0"



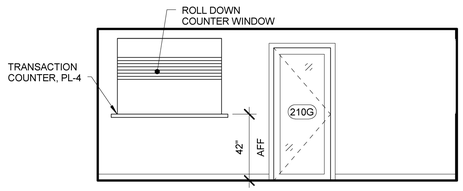
7 A7.7 DCD 225 - South
SCALE: 1/4" = 1'-0"



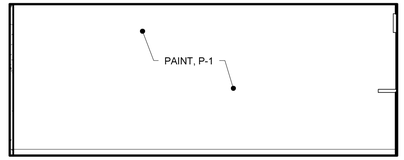
6 A7.7 DCD 225 - East
SCALE: 1/4" = 1'-0"



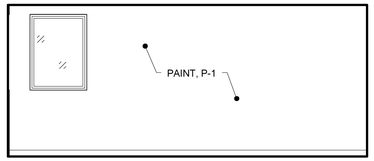
5 A7.7 DCD 225 - North
SCALE: 1/4" = 1'-0"



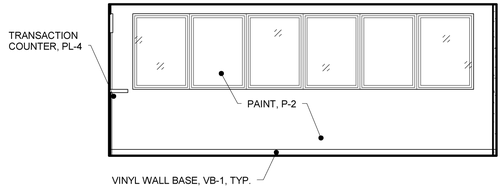
4 A7.7 Open Office 210G - West
SCALE: 1/4" = 1'-0"



3 A7.7 Open Office 210G - South
SCALE: 1/4" = 1'-0"



2 A7.7 Open Office 210G - East
SCALE: 1/4" = 1'-0"



1 A7.7 Open Office 210G - North
SCALE: 1/4" = 1'-0"

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Eric S. Spangler
No.10225
REGISTERED PROFESSIONAL ARCHITECT

DRAWINGS PREPARED BY:

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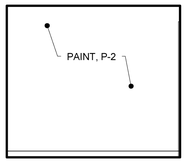
Nome State Office Building Remodel

Nome Alaska

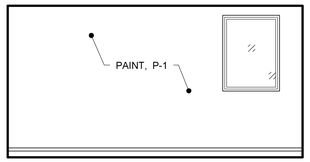
State Project No.: NSOB001

Bid Documents
December 13, 2013

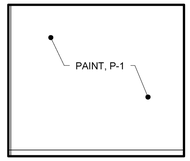
Interior Elevations
A7.7



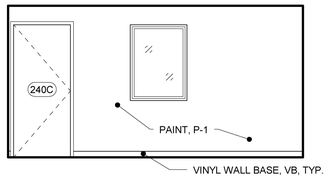
12 A7.8 Children 240C - West
SCALE: 1/4" = 1'-0"



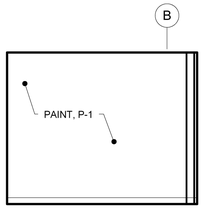
11 A7.8 Children 240C - South
SCALE: 1/4" = 1'-0"



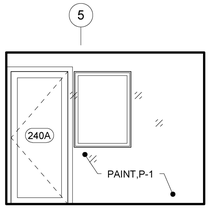
10 A7.8 Children 240C - East
SCALE: 1/4" = 1'-0"



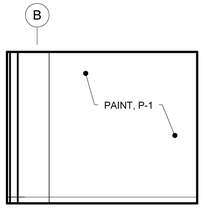
9 A7.8 Children 240C - North
SCALE: 1/4" = 1'-0"



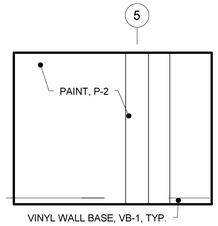
8 A7.8 Meeting 240A - West
SCALE: 1/4" = 1'-0"



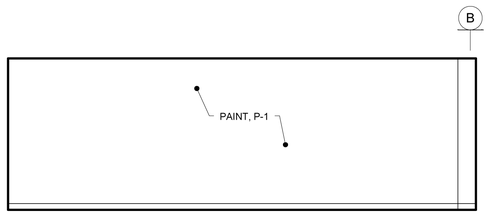
7 A7.8 Meeting 240A - South
SCALE: 1/4" = 1'-0"



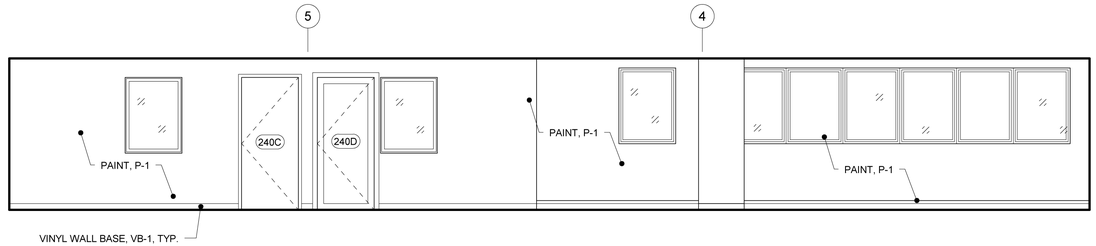
6 A7.8 Meeting 240A - East
SCALE: 1/4" = 1'-0"



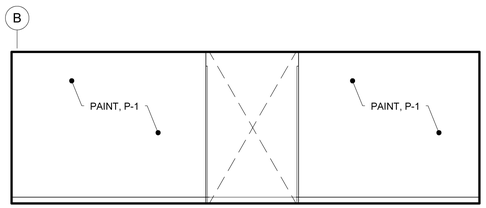
5 A7.8 Meeting 240A - North
SCALE: 1/4" = 1'-0"



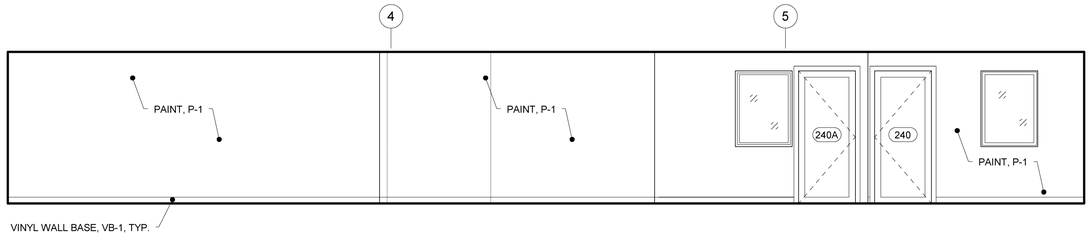
4 A7.8 Open Office 240 - West
SCALE: 1/4" = 1'-0"



3 A7.8 Open Office 240 - South
SCALE: 1/4" = 1'-0"



2 A7.8 Open Office 240 - East
SCALE: 1/4" = 1'-0"



1 A7.8 Open Office 240 - North
SCALE: 1/4" = 1'-0"

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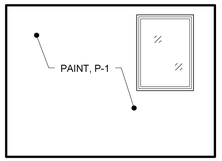
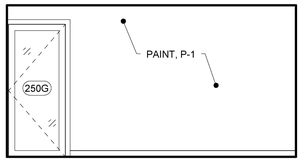
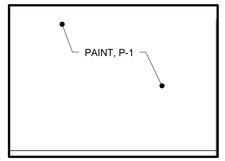


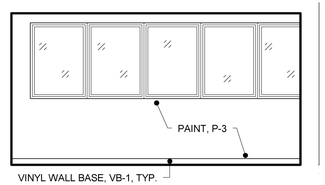
12 A7.9 Conference 250G - West
SCALE: 1/4" = 1'-0"



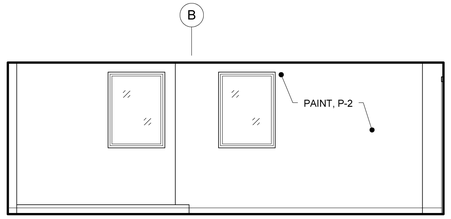
11 A7.9 Conference 250G - South
SCALE: 1/4" = 1'-0"



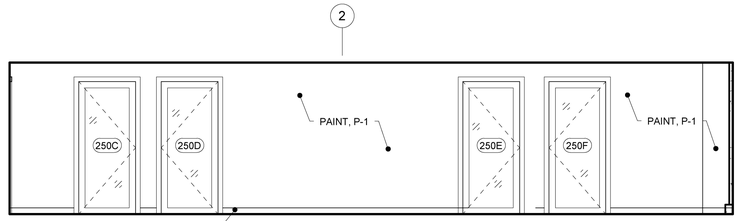
10 A7.9 Conference 250G - East
SCALE: 1/4" = 1'-0"



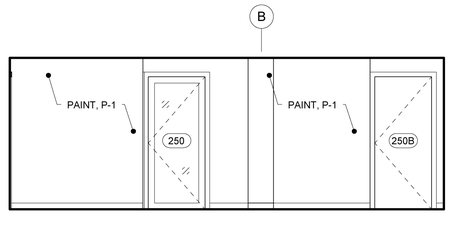
9 A7.9 Conference 250G - North
SCALE: 1/4" = 1'-0"



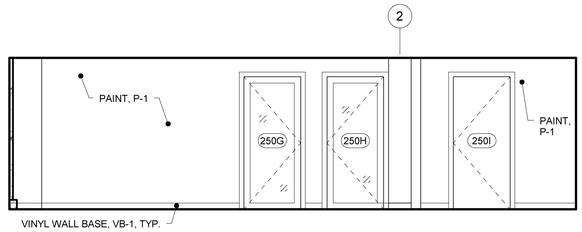
8 A7.9 Open Office 250 - West
SCALE: 1/4" = 1'-0"



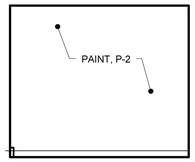
7 A7.9 Open Office 250 - South
SCALE: 1/4" = 1'-0"



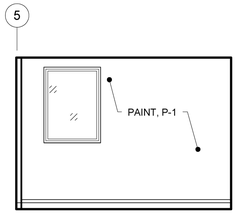
6 A7.9 Open Office 250 - East
SCALE: 1/4" = 1'-0"



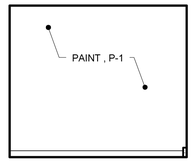
5 A7.9 Open Office 250 - North
SCALE: 1/4" = 1'-0"



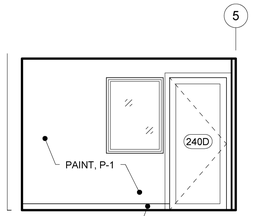
4 A7.9 Meeting 240D - West
SCALE: 1/4" = 1'-0"



3 A7.9 Meeting 240D - South
SCALE: 1/4" = 1'-0"



2 A7.9 Meeting 240D - East
SCALE: 1/4" = 1'-0"



1 A7.9 Meeting 240D - North
SCALE: 1/4" = 1'-0"

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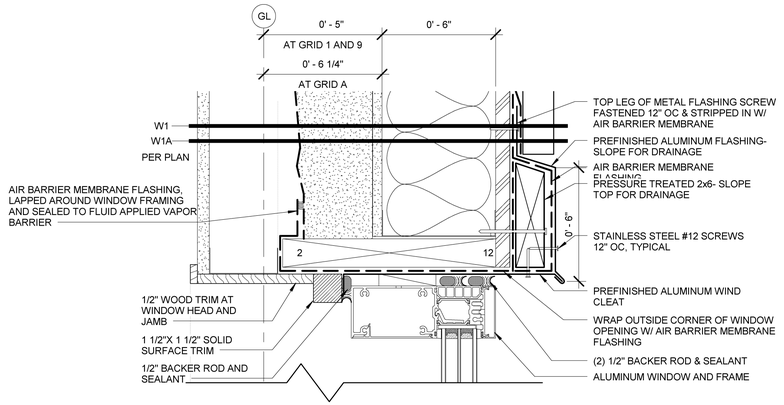
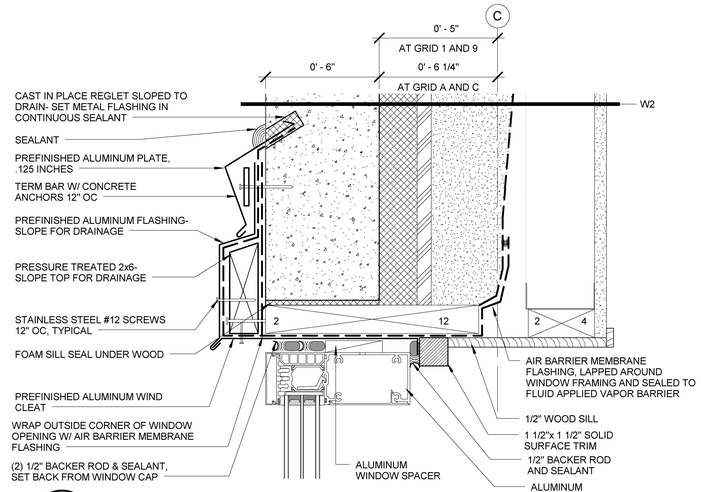


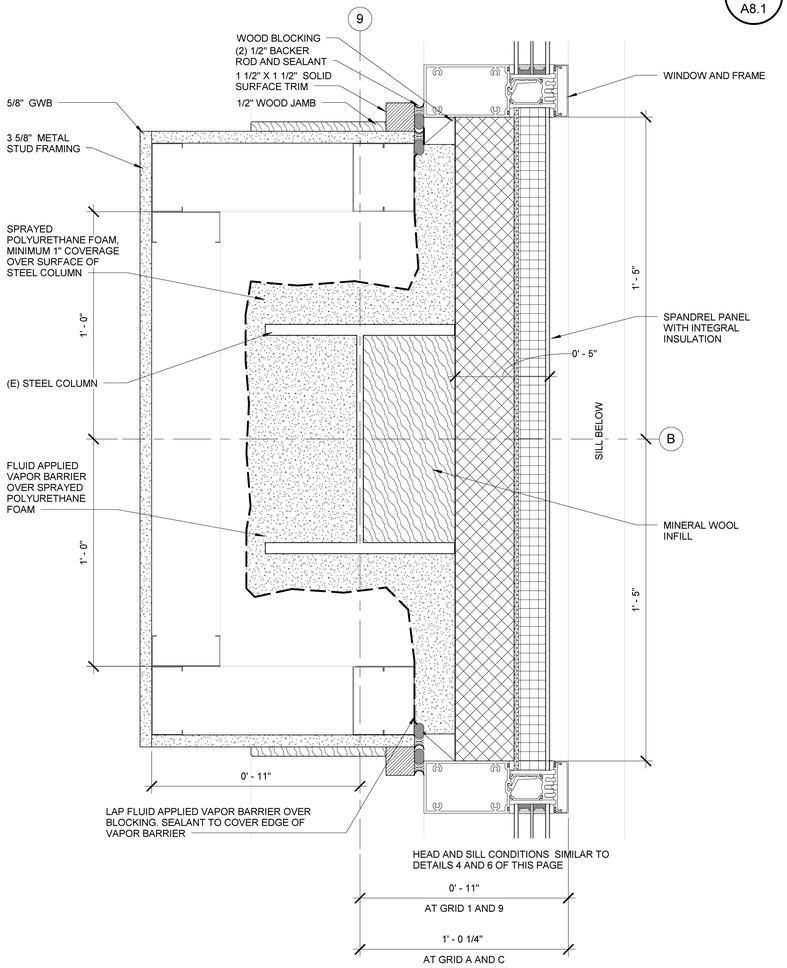
6 A8.1 Window Head - Typical

SCALE: 3" = 1'-0"



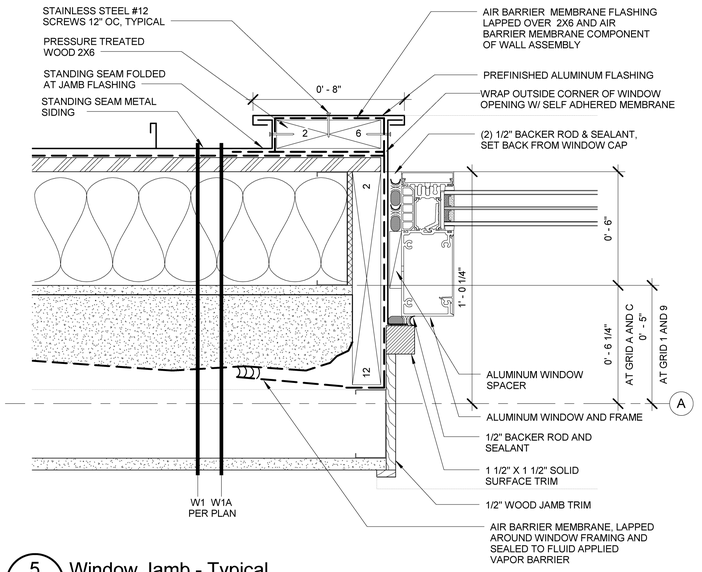
3 A8.1 Window Head - South, Lower Level

SCALE: 3" = 1'-0"



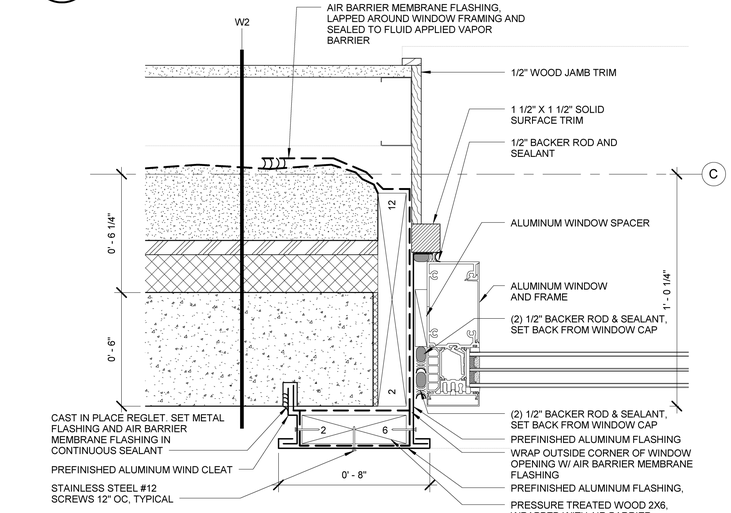
7 A8.1 Typical Spandrel

SCALE: 3" = 1'-0"



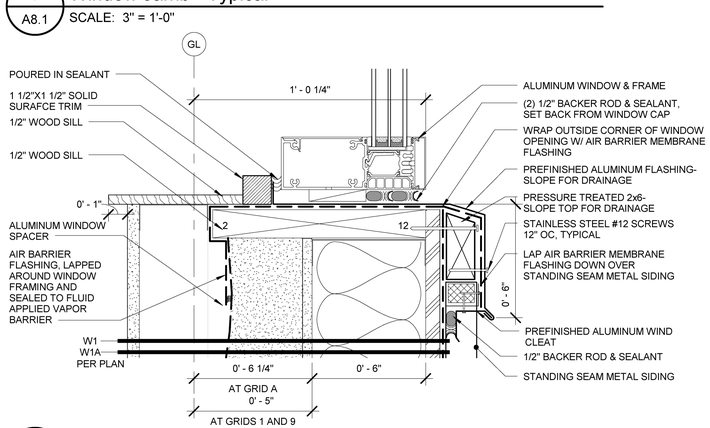
5 A8.1 Window Jamb - Typical

SCALE: 3" = 1'-0"



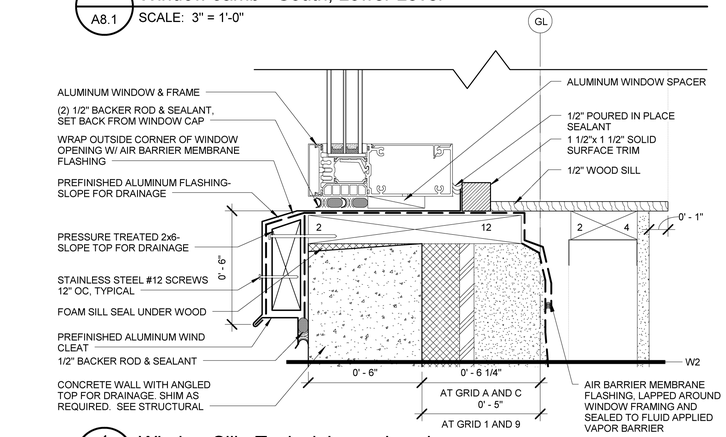
2 A8.1 Window Jamb - South, Lower Level

SCALE: 3" = 1'-0"



4 A8.1 Window Sill - Typical, Second Level

SCALE: 3" = 1'-0"



1 A8.1 Window Sill - Typical, Lower Level

SCALE: 3" = 1'-0"

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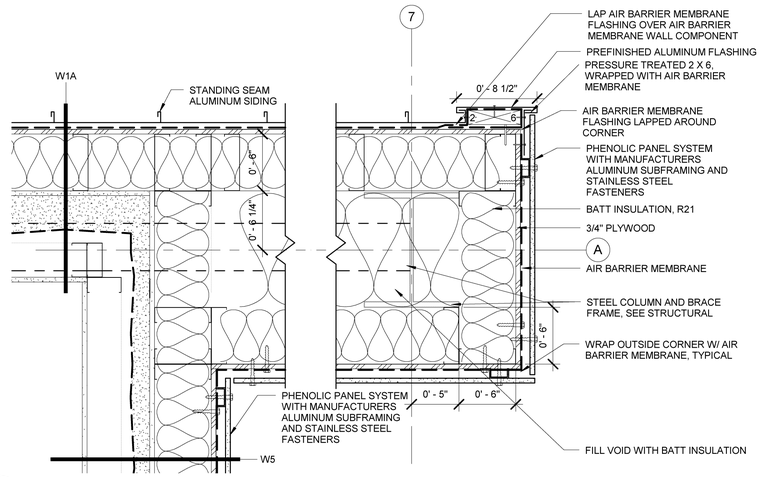
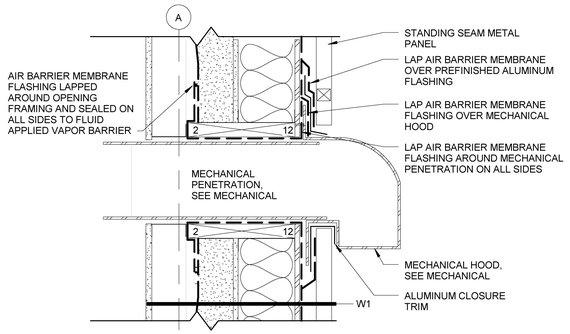
Details, Typical Windows

A8.1



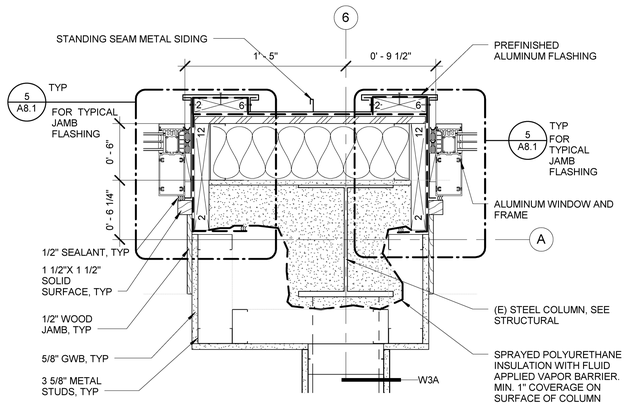
7 / A8.2 Column Enclosure - Metal Panel / Resin Panel Transition

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



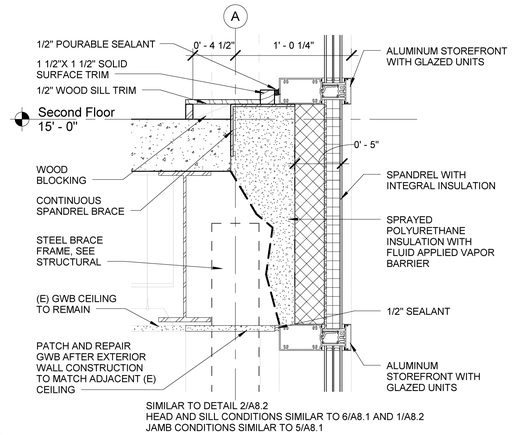
6 / A8.2 Wall Penetration - North Wall, Lower Level

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



5 / A8.2 Column Detail - Wrap @ Brace Frame

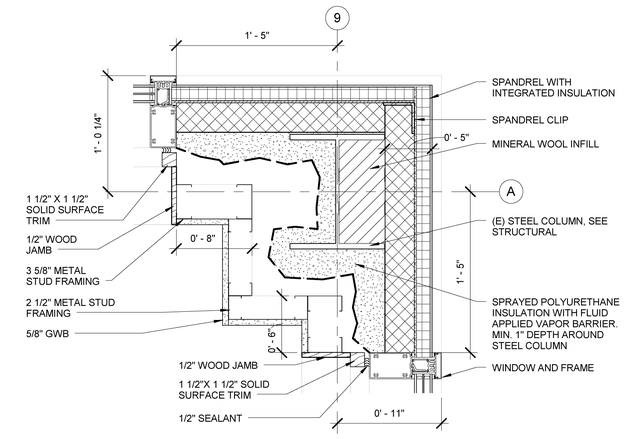
SCALE: 1 1/2" = 1'-0"



SIMILAR TO DETAIL 2/A8.2
HEAD AND SILL CONDITIONS SIMILAR TO 6/A8.1 AND 1/A8.2
JAMB CONDITIONS SIMILAR TO 5/A8.1

4 / A8.2 Sprandrel - North, @ Stair

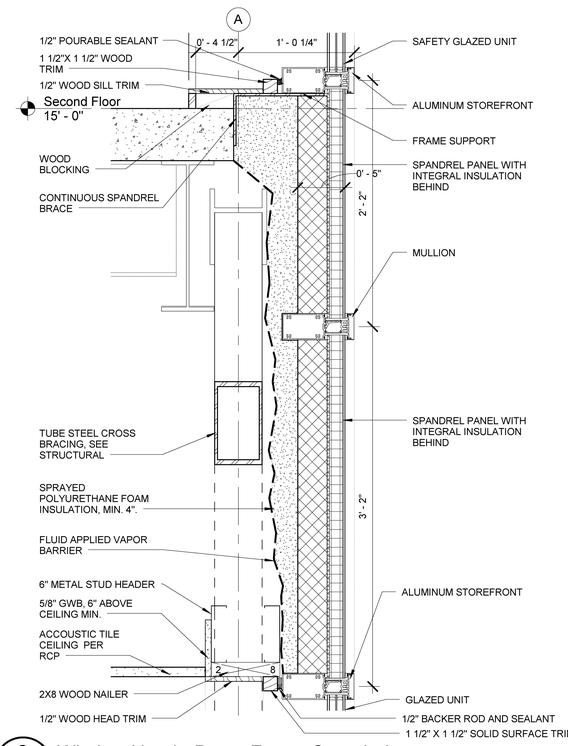
SCALE: 1 1/2" = 1'-0"



3 / A8.2 Corner - Typical, Second Level

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

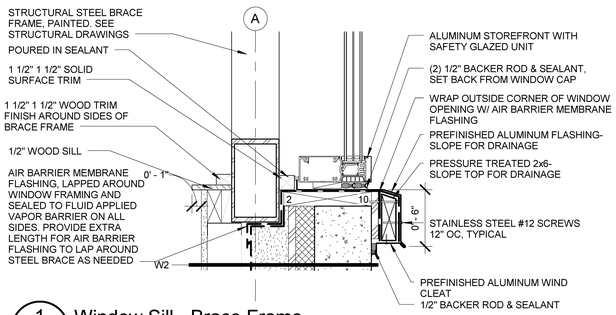
HEAD DETAIL SIMILAR TO 6/A8.1
JAMB DETAIL SIMILAR TO 5/A8.1



2 / A8.2 Window Head - Brace Frame Spandrel

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

JAMB DETAIL SIMILAR TO 5/A8.1



1 / A8.2 Window Sill - Brace Frame

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

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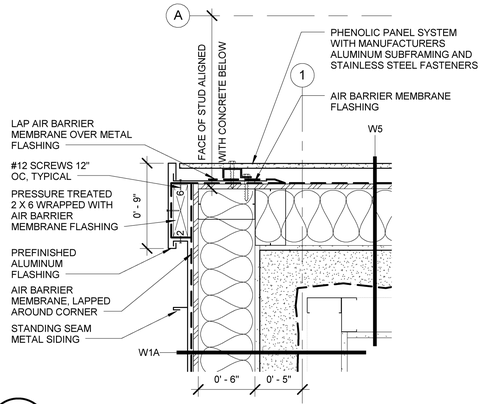
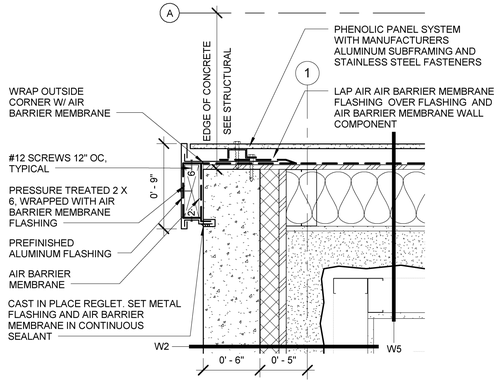
Details, North Wall

A8.2



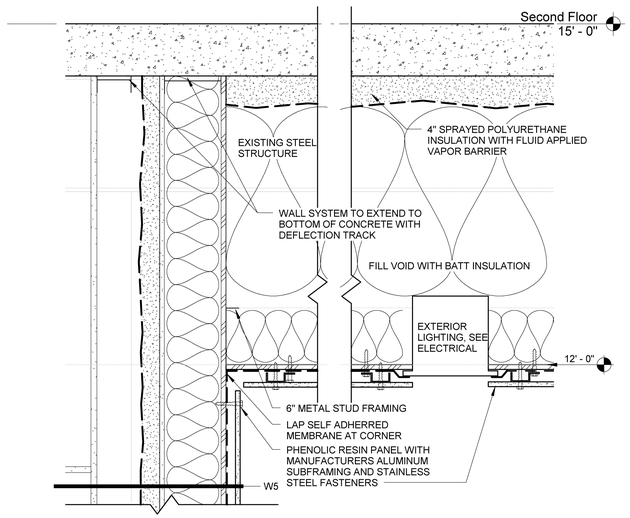
9 A8.3 Corner Detail - Metal / Resin Panel Transition

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



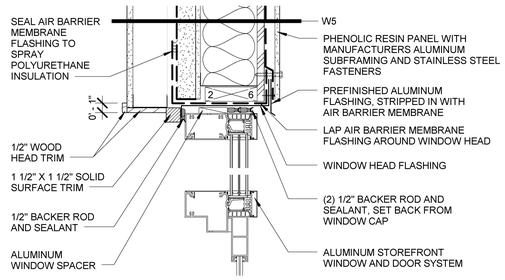
8 A8.3 Corner Detail - Concrete / Resin Panel Transition

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



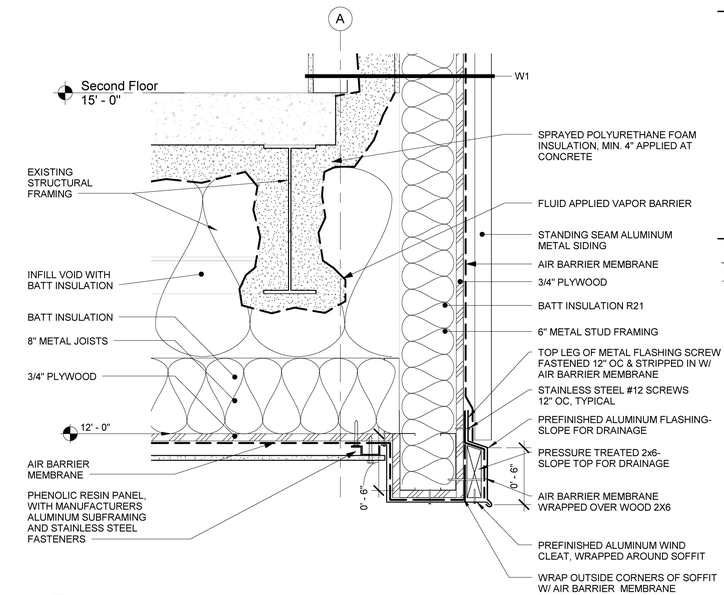
6 A8.3 Entry Wall Detail

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



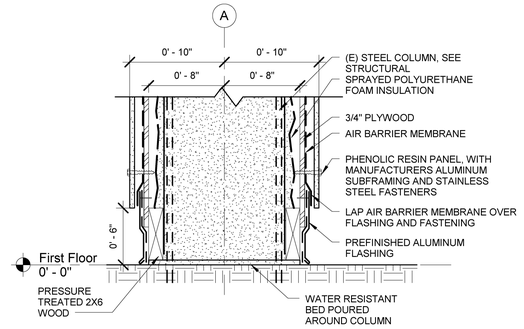
5 A8.3 Entry Door - Head Detail

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



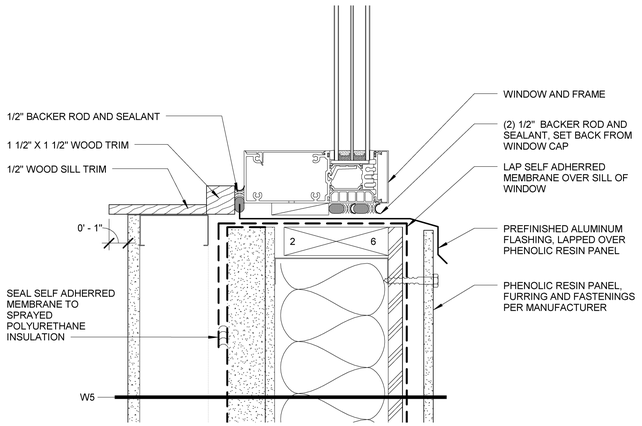
3 A8.3 Entry Soffit Detail

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



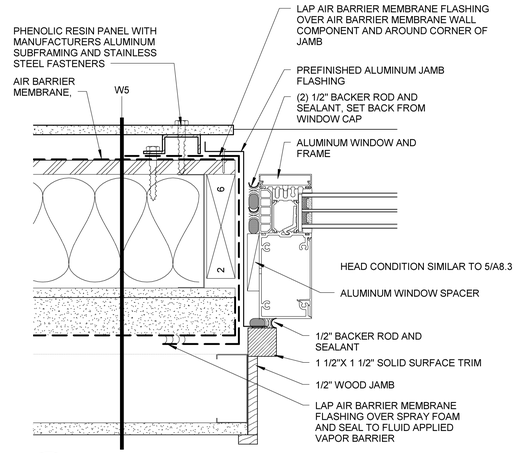
2 A8.3 Column Base

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



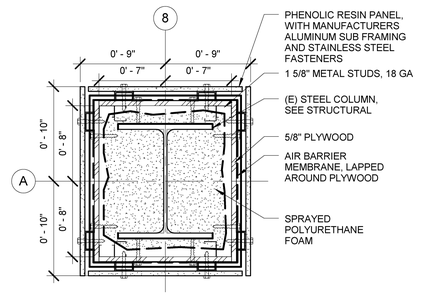
7 A8.3 Window Sill - Phenolic Resin

SCALE: 3" = 1'-0"



4 A8.3 Window Jamb - Entry, Lower Level

SCALE: 3" = 1'-0"



1 A8.3 Column Detail

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

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DRAWINGS PREPARED BY:

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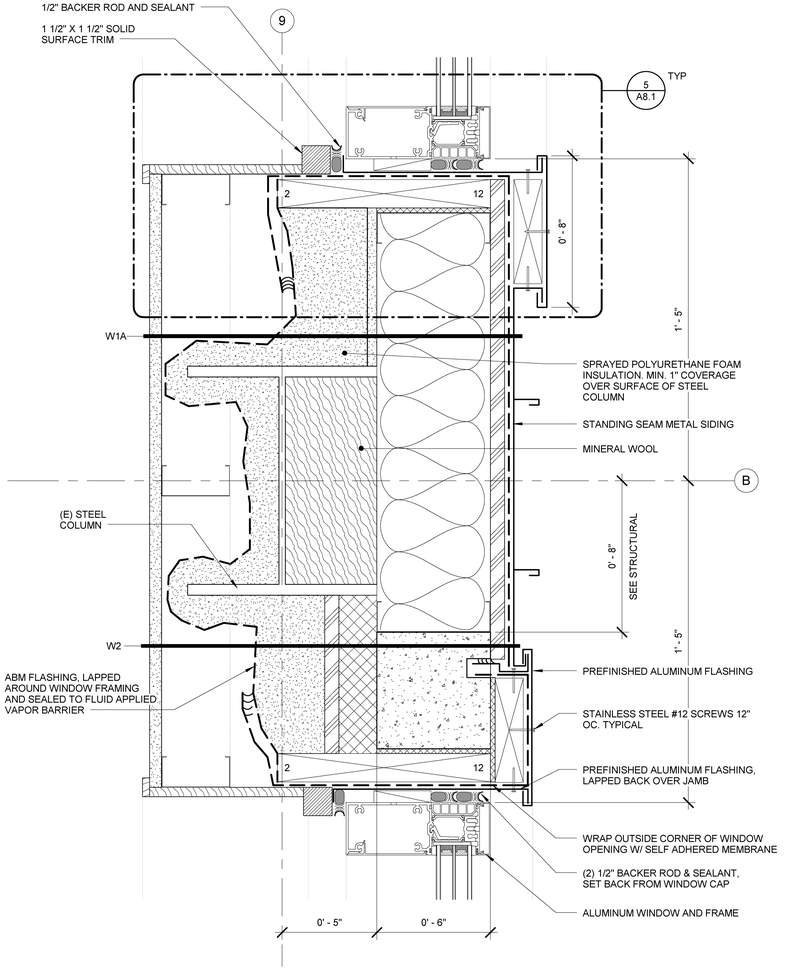
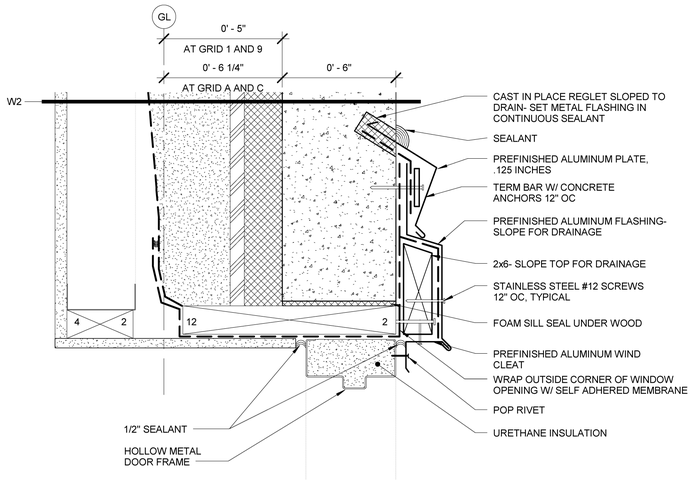


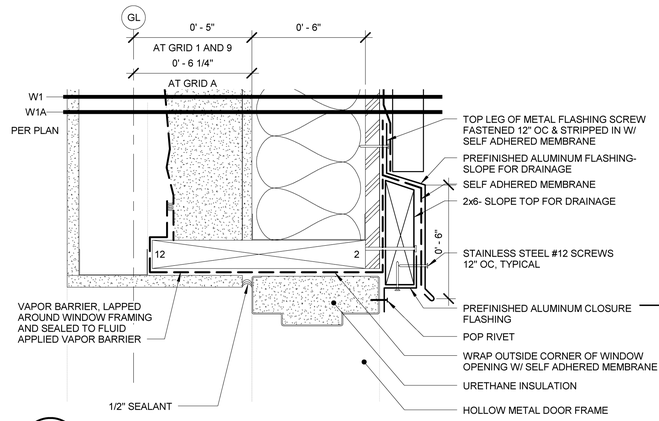
5 A8.4 Column Detail - East / West, Lower Level

SCALE: 3" = 1'-0"



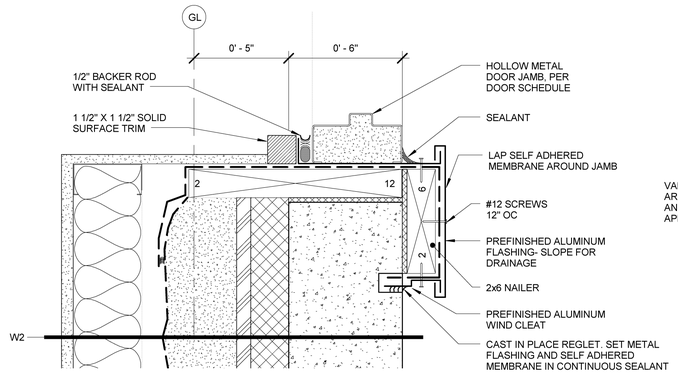
4 A8.4 Door Head - East Wall, Lower Level

SCALE: 3" = 1'-0"



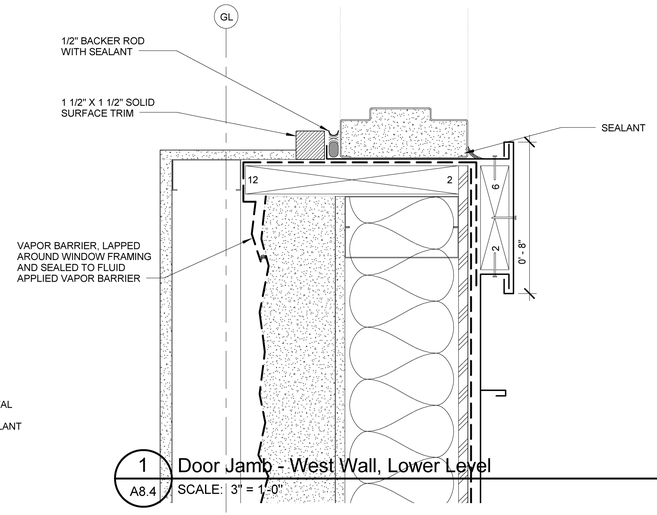
2 A8.4 Door Head - West Wall

SCALE: 3" = 1'-0"



3 A8.4 Door Jamb - East Wall, Lower Level

SCALE: 3" = 1'-0"



1 A8.4 Door Jamb - West Wall, Lower Level

SCALE: 3" = 1'-0"

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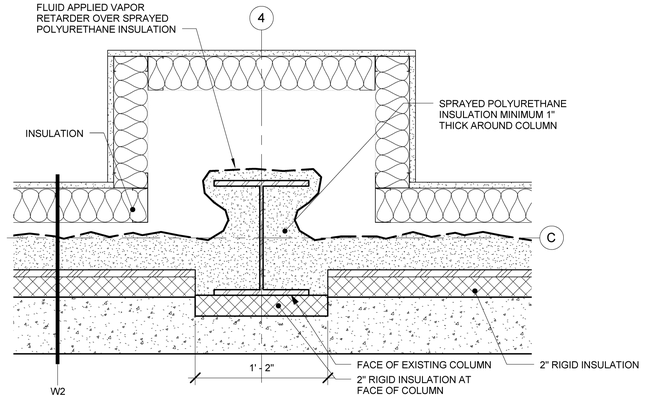
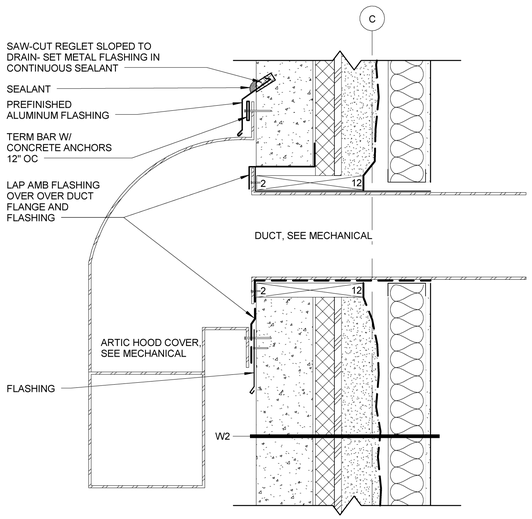


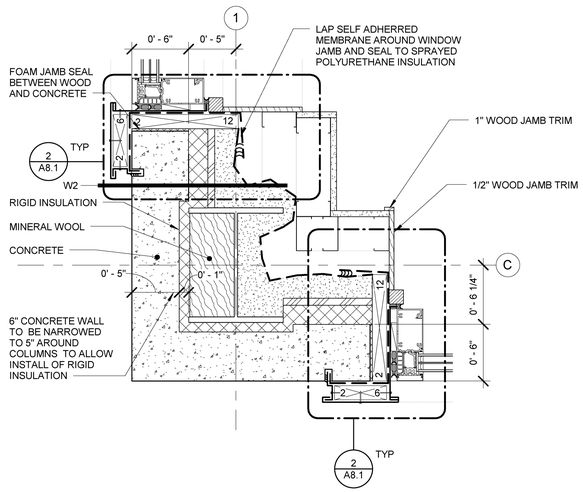
2 A8.5 Column Detail - Lower Level, Below Window Sill Level

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



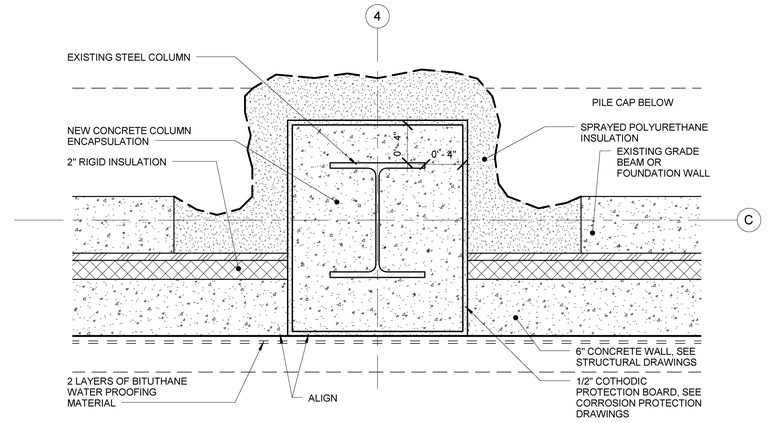
6 A8.5 Wall Penetration - South Wall, Lower Level

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



4 A8.5 Corner Detail - South, Lower Level

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



1 A8.5 Column Detail - Crawl Space

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

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Details, South Wall

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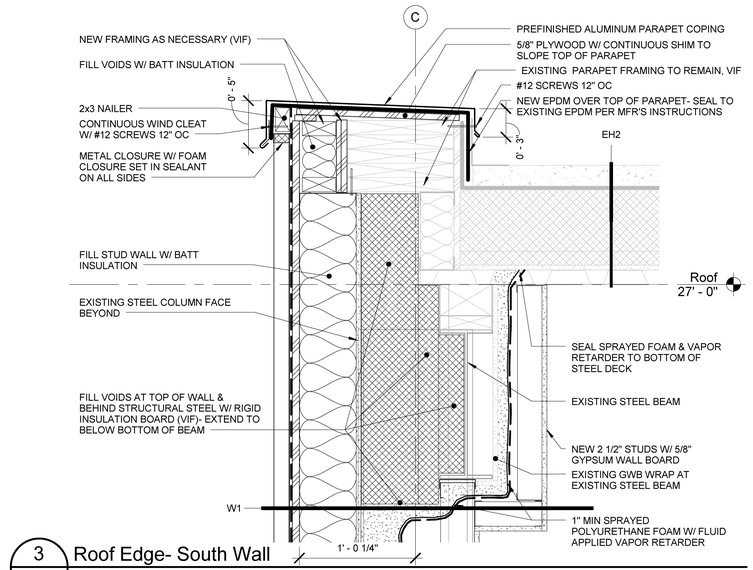
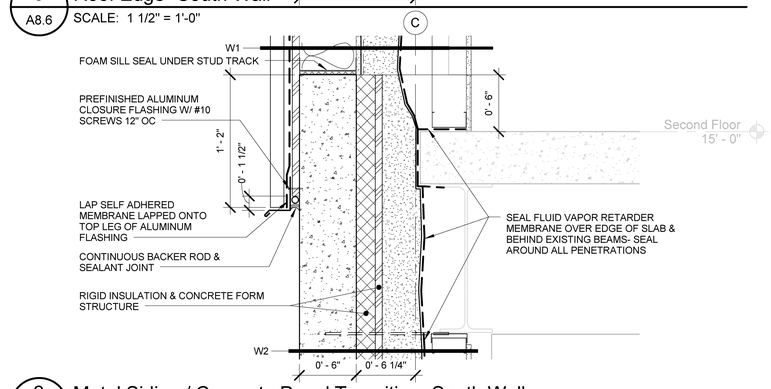


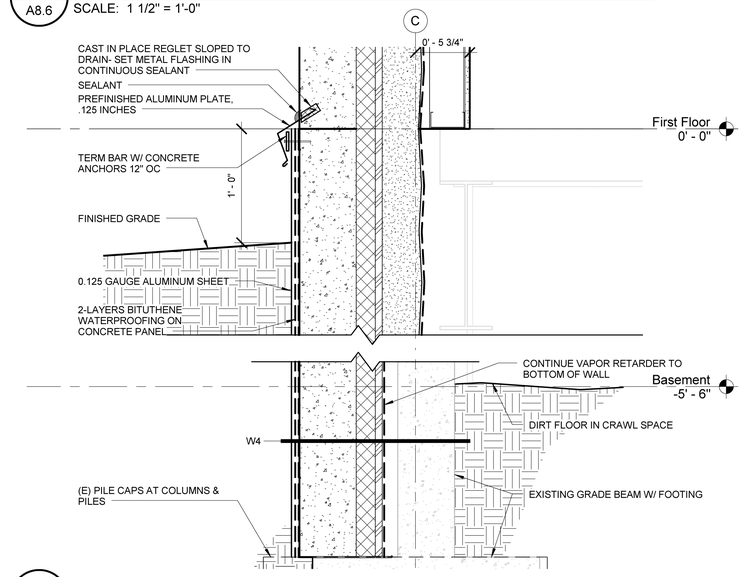
3 A8.6 **Roof Edge- South Wall**

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



2 A8.6 **Metal Siding / Concrete Panel Transition- South Wall**

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



1 A8.6 **Concrete Panel - South, Below Grade**

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

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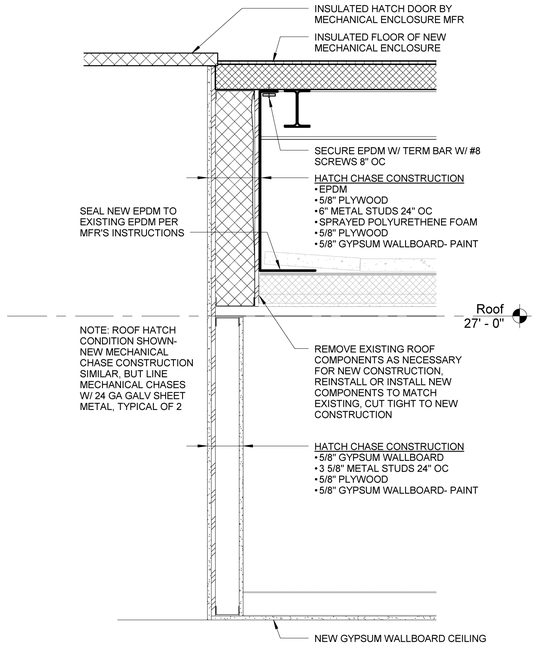
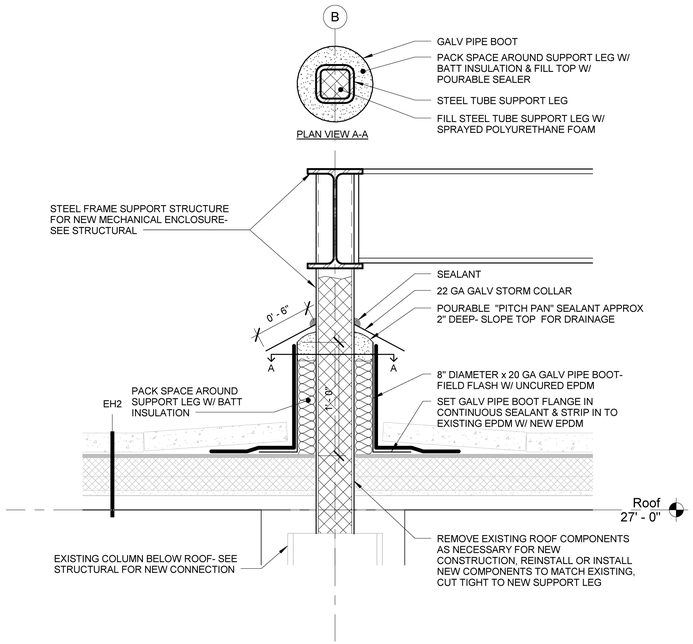


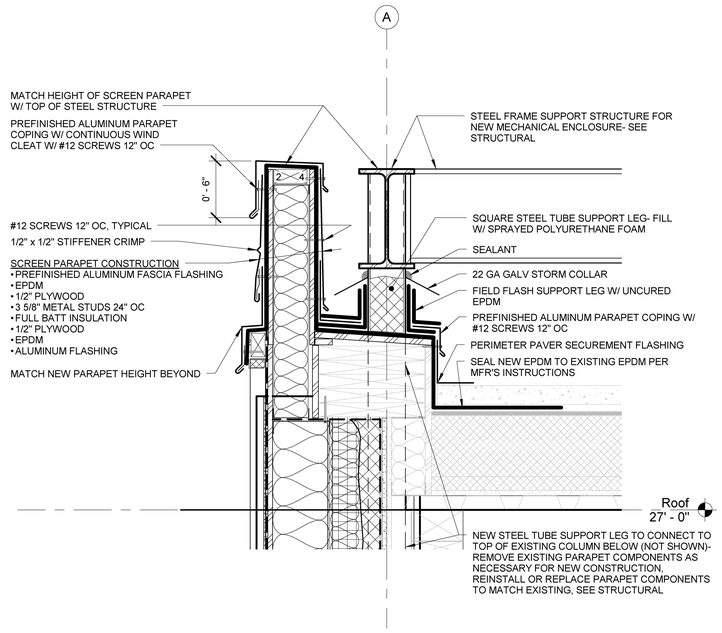
4 A8.7 **Detail- Roof Hatch Chase**

SCALE: 1" = 1'-0"



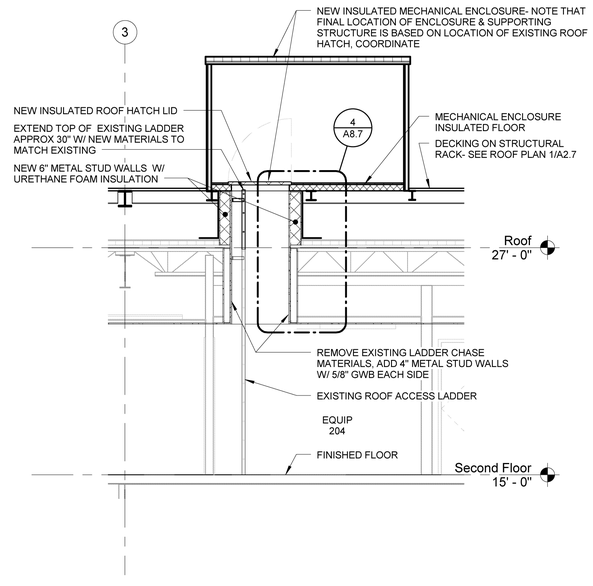
3 A8.7 **Detail- Structural Rack Support Leg**

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



2 A8.7 **Detail- Screen Parapet at Structural Rack**

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



1 A8.7 **Section- Roof Hatch To Mechanical Unit**

SCALE: 1/4" = 1'-0"

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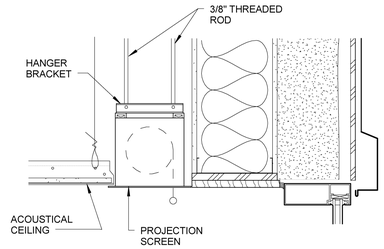
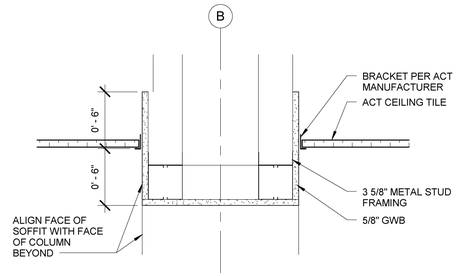


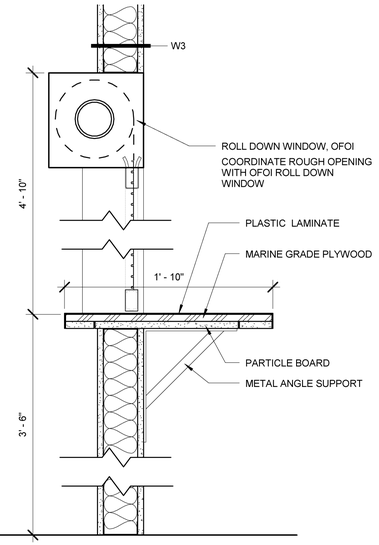
7 A8.8 Projection Screen Detail

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



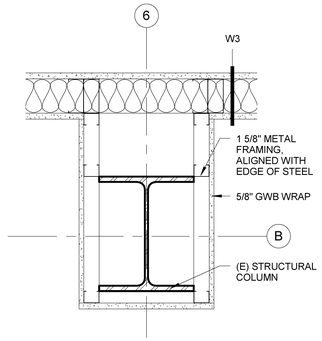
4 A8.8 Typical GWB Ceiling Soffit

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



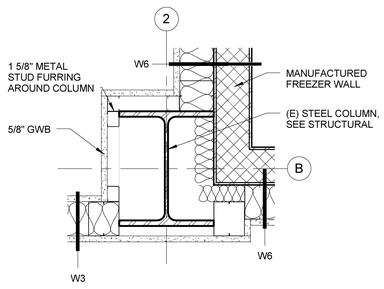
6 A8.8 Roll Down Window Section

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



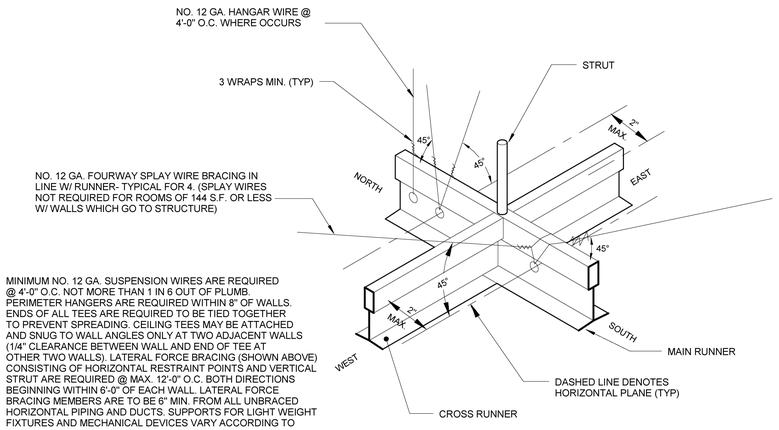
3 A8.8 Column Wrap - Interior

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



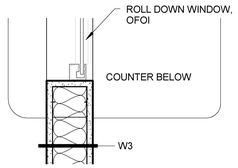
2 A8.8 Column at Freezer Wall

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



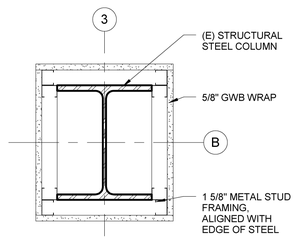
8 A8.8 Ceiling Seismic Bracing

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



5 A8.8 Roll Down Window Jamb

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



1 A8.8 Typical Interior Column

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

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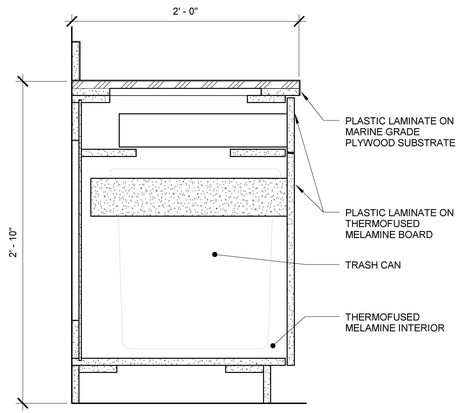
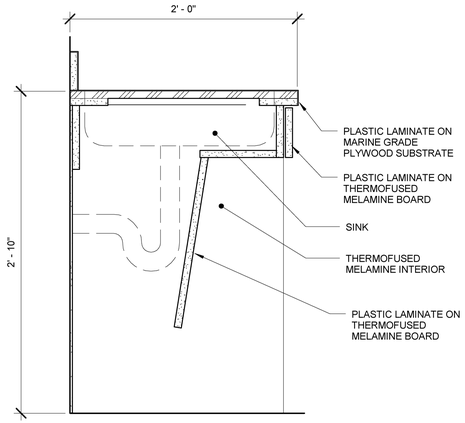
NOTES:

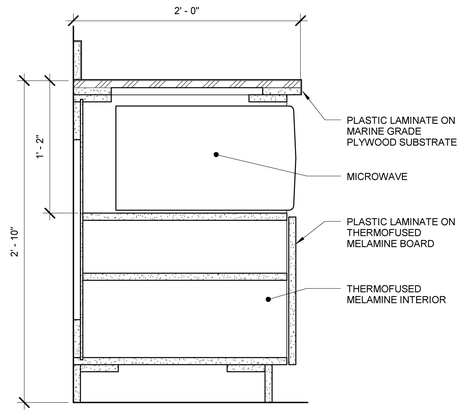
1. CASEWORK TO BE CONSTRUCTED FROM THERMOFUESED MELAMINE BOARD
2. DOORS AND DRAWER FRONTS TO BE PLASTIC LAMINATE ON THERMOFUSED MELAMINE WITH PLASTIC LAMINATE EDGING
3. COUNTER TOPS TO BE PLASTIC LAMINATE WITH MARINE GRADE PLYWOOD SUBSTRATE
4. UPPER CABINETS TO BE MOUNTED 48" FROM FINISH FLOOR HEIGHT TO TOP SURFACE OF BOTTOM SHELF



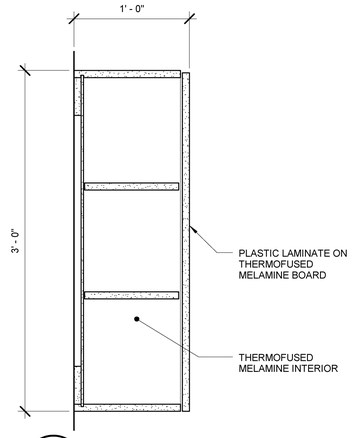
5 A8.9 Trash Can Cabinet Detail
SCALE: 1 1/2" = 1'-0"



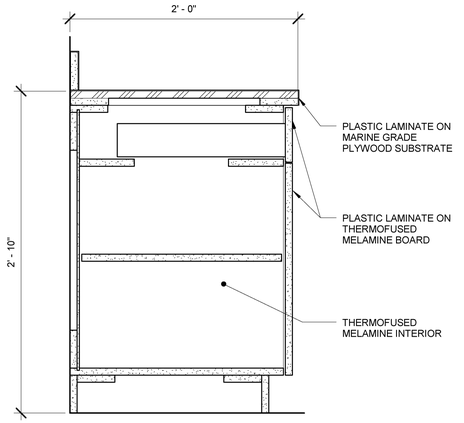
4 A8.9 Sink Cabinet Detail
SCALE: 1 1/2" = 1'-0"



3 A8.9 Microwave Cabinet Detail
SCALE: 1 1/2" = 1'-0"



2 A8.9 Typical Upper Cabinet Detail
SCALE: 1 1/2" = 1'-0"



1 A8.9 Typical Base Cabinet Detail
SCALE: 1 1/2" = 1'-0"

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GENERAL NOTES

1. THE HAZARDS ABATEMENT PORTION OF THIS PROJECT INCLUDES THE DISTURBANCE AND/OR REMOVAL AND DISPOSAL OF SELECTED ASBESTOS–CONTAINING MATERIALS, POLYCHLORINATED BIPHENYL (PCB) CONTAINING LIGHT BALLASTS, MERCURY–CONTAINING MATERIALS, LEAD–CONTAINING MATERIALS AND ITEMS CONTAINING RADIOACTIVE COMPOUNDS. THE PURPOSE OF THE HAZARDS ABATEMENT PORTION OF THE WORK IS TO REMOVE THESE MATERIALS FROM THE NOME STATE OFFICE BUILDING PRIOR TO RENOVATION OR DEMOLITION SO THAT PERSONNEL CAN SAFELY PERFORM THEIR WORK WITHOUT CREATING HAZARDS TO HEALTH OR THE ENVIRONMENT.

2. THE WORK DOES NOT INCLUDE REMOVAL OF ALL HAZARDOUS MATERIALS IN THE BUILDING. REMOVE HAZARDOUS MATERIALS COORDINATING WITH OTHER TRADES, AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS AND AS REQUIRED TO COMPLETE THE WORK. "REMOVAL" INCLUDES PROPER HANDLING, PACKAGING AND DISPOSAL OF MATERIALS REMOVED.

3. POTENTIALLY HAZARDOUS MATERIALS SUCH AS MERCURY–CONTAINING LAMPS AND THERMOSTATS, RADIOACTIVE SMOKE DETECTORS, METALLIC LEAD ITEMS, REFRIGERANTS, HEATING SYSTEM GLYCOL AND PCB CONTAINING BALLASTS AFFECTED BY THE PROJECT ARE TO BE REMOVED AND DISPOSED OF PROPERLY. REFER TO SPECIFICATIONS AND THE CONTRACTOR'S APPROVED WORK PLAN FOR HAZARDOUS MATERIALS REMOVAL, DISTURBANCE AND DISPOSAL PROCEDURES.

4. LEAD–BASED PAINTS (PAINT CONTAINING EQUAL TO OR GREATER THAN 1.0 mg/cm^2) WERE NOT IDENTIFIED DURING THE LIMITED LEAD TESTING SHOWN IN THE HAZMAT SURVEY, AND LEAD–BASED PAINTS MAY BE PRESENT AT OTHER LOCATIONS. LOW LEVELS OF LEAD FOUND BY XRF TESTING DOES NOT MEAN THE PAINTS ARE FREE OF LEAD, THE PAINTS MAY CONTAIN MEASURABLE AMOUNTS OF LEAD. LEAD–CONTAINING MATERIALS INCLUDE ALL PAINTED SURFACES, CERAMIC TILES, AND METALLIC LEAD, AS WELL AS LEAD–CONTAINING DUSTS. THIS IS NOT A LEAD ABATEMENT PROJECT, AND ALL TRADES WILL LIKELY DISTURB SOME LEAD–CONTAINING MATERIALS. CONTROL WORKER EXPOSURES USING LEAD–SAFE WORK PRACTICES AND CHOICE OF MEANS AND METHODS OF CONDUCTING THE WORK TO COMPLY WITH 29 CFR 1926.62 AND TO AVOID CONTAMINATION OF THE WORK AREA AND SITE.

5. PERFORM INITIAL AIR MONITORING TESTS ON ALL TASKS THAT DISTURB ASBESTOS OR LEAD–CONTAINING MATERIALS, DUST OR PAINT TO DETERMINE THE APPROPRIATE WORKER AND SITE PROTECTION PROCEDURES REQUIRED. DUE TO THE AGE OF THE BUILDING, METALLIC LEAD IS ASSUMED PRESENT IN BELL AND SPIGOT PIPE JOINTS AND IN SOLDER ON COPPER PIPES.

6. SETTLED AND CONCEALED DUST ON ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL COMPONENTS THROUGHOUT THE PROJECT AREA IS ASSUMED TO CONTAIN REGULATED AIR CONTAMINATES INCLUDING ASBESTOS AND LEAD. WORK OF ALL TRADES MAY INCLUDE DISTURBANCE OF ASBESTOS AND LEAD AND MAY RESULT IN WORKER EXPOSURE TO ASBESTOS AND LEAD ABOVE THE OSHA ACTION LEVEL OR PERMISSIBLE EXPOSURE LIMITS FOR ASBESTOS OR LEAD IF PROPER WORK PRACTICES AND/OR ENGINEERING CONTROLS ARE NOT USED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE APPROPRIATE WORKER AND SITE PROTECTION PROCEDURES SO THAT THEIR WORKERS ARE NOT EXPOSED ABOVE THOSE LIMITS AND THAT WORK IS PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. THE PRESENCE OF ASBESTOS OR LEAD IN DUSTS DOES NOT NECESSARILY MAKE THEM A HAZARD TO WORKERS OR A HAZARDOUS WASTE.

7. THE CONTRACTOR'S INDEPENDENT LABORATORY SHALL PROVIDE ALL INSPECTIONS, MONITORING, SAMPLING, ANALYSES AND REPORTING SERVICES AS SPECIFIED. CLEARANCE AIR MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH 40 CFR 763. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SAMPLING.

8. LOCATIONS OF MATERIALS SHOWN ON THESE DRAWINGS ARE SCHEMATIC AND APPROXIMATE. FIELD VERIFY AND COORDINATE CONSTRUCTION DETAILS, DIMENSIONS, WORK CONDITIONS, AND LOCATIONS WHICH WILL AFFECT THE REMOVAL OR DISTURBANCE OF HAZARDOUS MATERIALS. HAZARDOUS MATERIALS MAY HAVE COME LOOSE AND FALLEN ONTO FLOORS, CEILINGS, CHASES, OR WALL CAVITIES. THE QUANTITIES SHOWN IN THE SHEET SUMMARY ARE APPROXIMATE AND MAY VARY DEPENDING ON THE CONTRACTOR'S MEANS AND METHODS. REQUIRE ALL TRADES TO COORDINATE WITH EACH OTHER AND TO CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION, SEE DRAWINGS OF ALL DISCIPLINES FOR ADDITIONAL INFORMATION RELATING TO HAZARDOUS MATERIALS. IMMEDIATELY COMMUNICATE ALL DISCREPANCIES IN QUANTITIES TO THE OWNER. REFER TO HAZARDOUS MATERIALS SURVEY FOR MORE INFORMATION ABOUT POTENTIALLY HAZARDOUS MATERIALS THAT ARE NOT SCHEDULED FOR DISTURBANCE BY THIS PROJECT. FURNISH ALL WORK AND MATERIALS REQUIRED FOR A FINISHED PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS.

9. PROVIDE ALL WASTE TESTING, PACKAGING, HANDLING, TRANSPORTATION AND DISPOSAL. ALL COSTS FOR DISPOSAL SHALL BE BORNE BY THE CONTRACTOR. PERFORM TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST(S) OF WASTE(S) CONTAINING LEAD OR PAINTED WITH LEAD–CONTAINING PAINT TO CHARACTERIZE THE WASTE(S) AS HAZARDOUS OR NON–HAZARDOUS PRIOR TO DISPOSAL. COORDINATE REQUIREMENTS OF LANDFILL(S) REGARDING MATERIALS PACKAGING, HANDLING, AND DISPOSAL REQUIREMENTS PRIOR TO SUBMITTING BID.

10. PLANAR AREA SHOWN IN QUANTITIES DOES NOT ATTEMPT TO ESTIMATE THE DEVELOPED AREA OF SURFACES REQUIRED TO BE CLEANED. ALL ACCESSIBLE ABOVE CEILING SURFACES SHALL BE CLEANED AND ENCAPSULATED. THE CONTRACTOR SHALL PROVIDE A MARKED, SEALED, PERMANENT PHYSICAL BARRIER TO PREVENT FUTURE CONTACT OR DISTURBANCE AT ALL LOCATIONS WHERE THE ASBESTOS–CONTAINING FIREPROOFING IS INACCESSIBLE AND CANNOT BE REMOVED. SUBMIT PROPOSED METHODS OF BARRIERS FOR APPROVAL.

SHEET NOTES

HAZARDS ABATEMENT DRAWINGS DO NOT SHOW ALL DETAILS OF WORK REQUIRED. ALL TRADES SHALL EXAMINE DRAWINGS OF OTHER TRADES AND COORDINATE WITH EACH OTHER TO DETERMINE EXTENT, TIMING AND LOCATIONS OF MATERIALS AFFECTED BY THE PROJECT.

1. REMOVE ASBESTOS–CONTAINING FIREPROOFING FROM STRUCTURAL STEEL AND ALL ACCESSIBLE OVERSPRAY. OVERSPRAY IS ON CORRUGATED DECKING AND IN AND ON ARCHITECTURAL, MECHANICAL AND ELECTRICAL CONSTRUCTION AND MAY BE CONCEALED BY OTHER MATERIALS AND BE FOUND WITHIN WALLS AND OTHER CAVITIES. PERMANENTLY SEAL FIREPROOFING WHERE NOT ACCESSIBLE – SEE GENERAL NOTE 10.
2. REMOVE 6 INCHES OF SOILS WITH ASBESTOS CONTAMINATION FROM SPRAYED–ON FIREPROOFING FROM CRAWL SPACE. CRAWL SPACE IS A CONFINED SPACE, BUT NOT A PERMIT REQUIRED CONFINED SPACE. REFER TO DRAWINGS OF OTHER TRADES THAT DEPICT THE OTHER MATERIALS AND SYSTEMS TO BE REMOVED FROM THE CRAWL SPACE.
3. REMOVE ASBESTOS–CONTAINING "ZONOLITE" (VERMICULITE) INSULATION WITHIN EXTERIOR METAL MULLIONS.
4. GYPSUM WALL BOARD WITH ASBESTOS–CONTAINING JOINT COMPOUND EXISTS THROUGHOUT THE BUILDING ON WALLS, CEILINGS, AND SOFFITS AND SHALL TO BE REMOVED AND/OR DISTURBED AS NECESSARY TO COMPLETE THE WORK.
5. GYPSUM WALL BOARD WITH ASBESTOS–CONTAINING JOINT COMPOUND HAD SOME WATER AFFECTED AREAS WITH VISIBLE AND CONCEALED MOLD CONTAMINATION. REFER TO MOLD REMEDIATION SPECIFICATION. REMOVE MOLD ONLY AS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH SPECIFIED PROCEDURES.
6. REMOVE CEMENT ASBESTOS BOARD AND CONTAMINATED MASTIC.
7. REMOVE ASBESTOS–CONTAINING SEALANTS AT DOOR AND WINDOW OPENINGS AND OTHER PENETRATIONS OF EXTERIOR FINISH.
8. REMOVE CARPETING AND VINYL ASBESTOS TILE BENEATH CARPETING AND COMPLETELY REMOVE ASBESTOS–CONTAINING OR CONTAMINATED MASTIC, INCLUDING UNDER WALLS SCHEDULED FOR DEMOLITION.
9. REMOVE VINYL ASBESTOS TILE AND COMPLETELY REMOVE ASBESTOS–CONTAINING OR CONTAMINATED MASTIC, INCLUDING UNDER WALLS SCHEDULED FOR DEMOLITION.
10. REMOVE ASSUMED ASBESTOS–CONTAINING FLANGE GASKETS ON PIPING.
11. REMOVE BOILER WITH ASSUMED ASBESTOS–CONTAINING GASKETS AND SEALANTS.
12. REMOVE FIRE DOORS WITH ASBESTOS–CONTAINING INSULATION.
13. REMOVE STAINLESS STEEL SINK WITH ASBESTOS–CONTAINING UNDERCOATING.
14. REMOVE FLUORESCENT LIGHT FIXTURES WITH MERCURY–CONTAINING LIGHT TUBES. NOTE ASSUMED PCB–CONTAINING BALLASTS AT DETENTION ROOMS.
15. REMOVE THERMOSTATS, SWITCHES AND OTHER ELECTRICAL DEVICES CONTAINING MERCURY.
16. REMOVE HID LIGHT FIXTURES WITH ASSUMED PCB–CONTAINING BALLASTS AND MERCURY–CONTAINING HIGH INTENSITY DISCHARGE LAMPS.
17. REMOVE EXIT LIGHTS AND EMERGENCY LIGHTS WITH LEAD–ACID BATTERIES. RECYCLE OR PROPERLY DISPOSE OF BATTERIES.
18. REMOVE SMOKE DETECTORS WITH RADIOACTIVE COMPONENTS, NOT SHOWN HERE.
19. DISTURB ROOFING WITH ASBESTOS–CONTAINING PATCHING TARS AS NECESSARY TO COMPLETE THE WORK.
20. REMOVE FREEZER WITH OZONE–DEPLETING SUBSTANCES.

ESTIMATED QUANTITIES TO BE REMOVED (ENTIRE PROJECT)

INCIDENTAL QUANTITIES OF MATERIALS, INCLUDING LEAD–CONTAINING MATERIALS, THAT ARE REQUIRED TO BE REMOVED TO COMPLETE THE WORK, BUT OTHERWISE ARE TO REMAIN, ARE NOT INCLUDED HERE, AS THEY WILL VARY DEPENDING ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS.

17,100	SQUARE FEET OF PLANAR AREA OF FIREPROOFING, SEE GENERAL NOTE 10
160	CUBIC YARDS OF SOILS WITH ASBESTOS CONTAMINATION FROM SPRAYED–ON FIREPROOFING
76	EACH EXTERIOR MULLIONS WITH VERMICULITE
42,000	SQUARE FEET OF GYPSUM WALLBOARD WITH ASBESTOS–CONTAINING JOINT COMPOUND
5,300	SQUARE FEET OF CEMENT ASBESTOS BOARD
3,650	SQUARE FEET OF CEMENT ASBESTOS BOARD ENCASED IN POLYURETHANE FOAM
2,275	SQUARE FEET OF PORCELAIN COVERED METAL EXTERIOR PANELS, PLYWOOD SIDING, DOORS, WINDOWS, AND OTHER EXTERIOR PENETRATIONS WITH ASBESTOS–CONTAINING SEALANTS
1,300	SQUARE FEET OF POLYURETHANE FOAM COVERED PORCELAIN COVERED METAL EXTERIOR PANELS, PLYWOOD SIDING, DOORS, WINDOWS, AND OTHER EXTERIOR PENETRATIONS WITH ASBESTOS–CONTAINING SEALANTS
1,400	LINEAR FEET OF ASBESTOS–CONTAINING SEALANTS AT DOORS, WINDOWS, AND OTHER EXTERIOR PENETRATIONS
3,100	SQUARE FEET OF ASBESTOS–CONTAINING FLOOR TILE AND MASTIC
9,650	SQUARE FEET OF ASBESTOS–CONTAINING FLOOR TILE AND MASTIC BENEATH CARPET
1	LOT ASBESTOS–CONTAINING GASKETS
2	EACH BOILER WITH ASSUMED ASBESTOS–CONTAINING GASKETS AND SEALANTS
5	EACH FIRE DOORS WITH ASBESTOS–CONTAINING INSULATION
1	EACH STAINLESS STEEL SINK WITH ASBESTOS–CONTAINING UNDERCOATING
700	MERCURY–CONTAINING FLUORESCENT LAMPS AND COMPACT FLUORESCENT LAMPS
2	PCB–CONTAING BALLASTS
16	EMERGENCY LIGHTS WITH BATTERIES
22	HID LIGHTS WITH ASSUMED PCB–CONTAINING BALLASTS
1	EACH FREEZER WITH OZONE DEPLETING SUBSTANCES
*	SQUARE FEET OF ASBESTOS–CONTAINING PATCH TARS AT ROOF PENETRATIONS

LEGEND

- CEMENT ASBESTOS BOARD TO BE REMOVED.
- VINYL ASBESTOS FLOOR TILE WITH ASBESTOS–CONTAINING OR ASBESTOS CONTAMINATED MASTIC TO BE REMOVED.
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- DOOR WITH ASBESTOS–CONTAINING INSULATION TO BE REMOVED.
- EMERGENCY LIGHT OR OTHER BATTERY DEVICE WITH LEAD ACID BATTERIES TO BE REMOVED.
- SINK WITH ASBESTOS–CONTAINING UNDERCOATING TO BE REMOVED.
- HID — MERCURY CONTAINING HIGH INTENSITY DISCHARGE LAMP WITH ASSUMED PCB BALLAST TO BE REMOVED.

1 / H1.0 HAZARDS ABATEMENT – GENERAL & SHEET NOTES & QUANTITIES

NOTIFICATION OF POTENTIAL HAZARDS

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Nome State Office Building Remodel

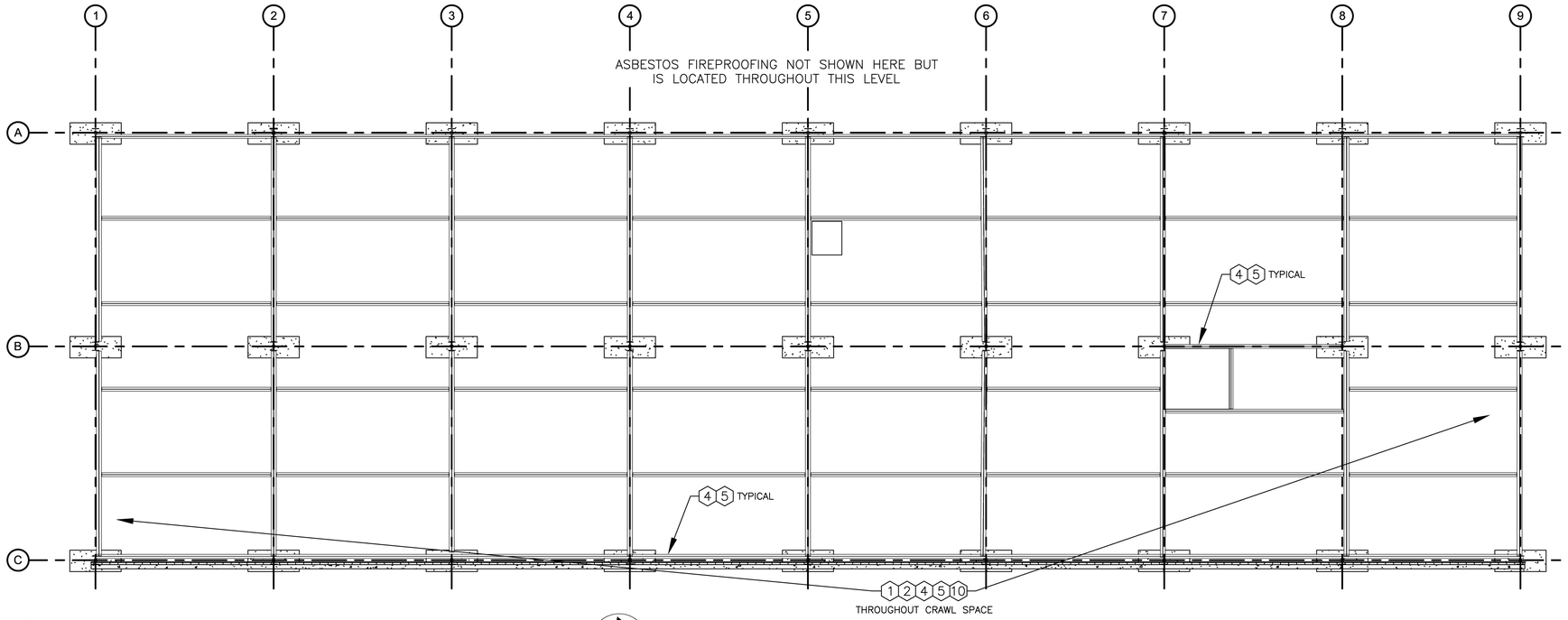
Nome Alaska

State Project No.: NSOB001

Bid Documents
December 13, 2013

HAZARDS ABATEMENT - GENERAL & SHEET NOTES & QUANTITIES

H1.0



1 / H1.1 HAZARDS ABATEMENT – CRAWL SPACE

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LEGEND

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Nome State Office Building Remodel

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State Project No.: NSOB001

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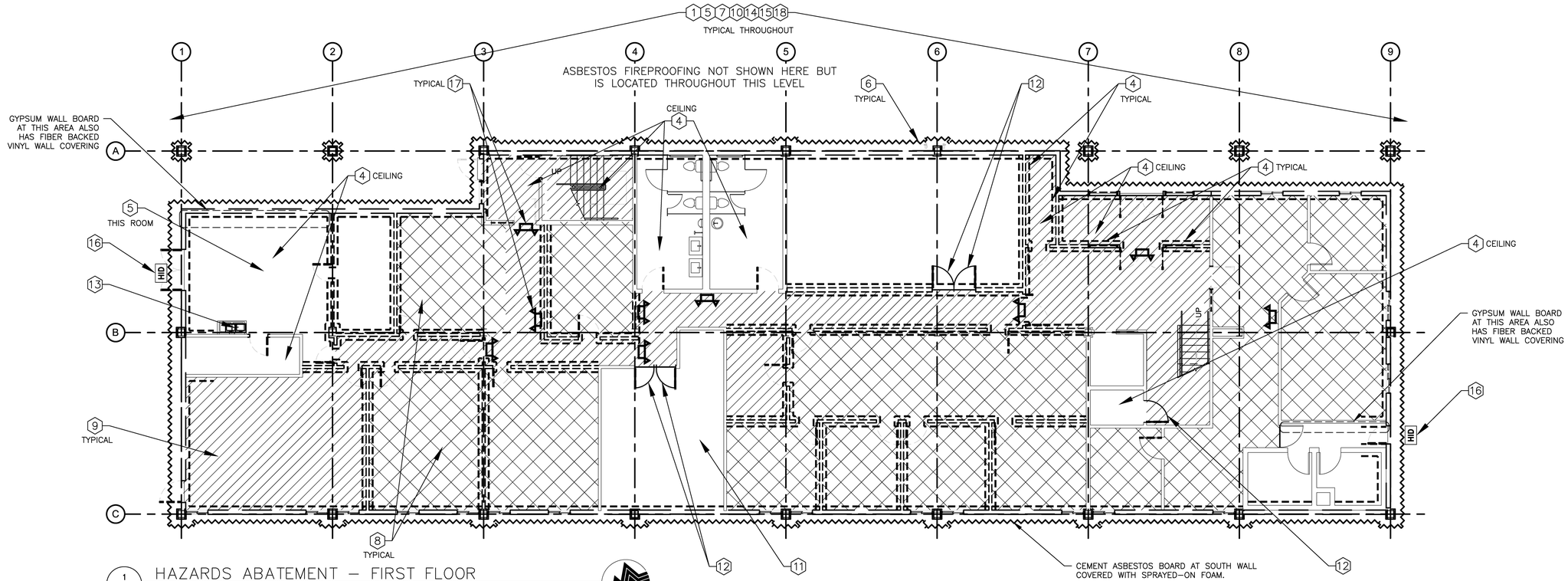
HAZARDS ABATEMENT - CRAWL SPACE

H1.1



1 / H1.2 HAZARDS ABATEMENT – FIRST FLOOR

FULL SIZE: 1/8" = 1'-0" HALF SIZE: 1/16" = 1'-0"

SHEET NOTES

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LEGEND

- CEMENT ASBESTOS BOARD TO BE REMOVED.
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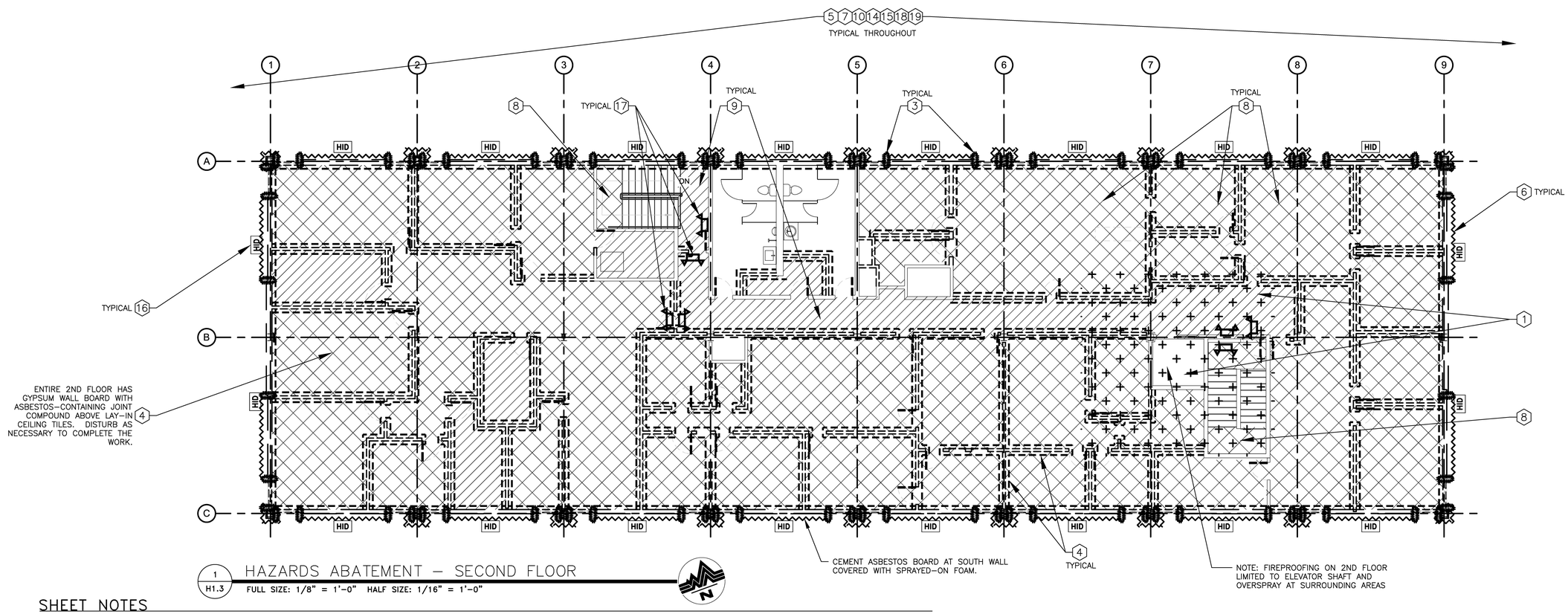
HAZARDS ABATEMENT - FIRST FLOOR

H1.2



1 / H1.3 HAZARDS ABATEMENT – SECOND FLOOR

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LEGEND

- CEMENT ASBESTOS BOARD TO BE REMOVED.
- VINYL ASBESTOS FLOOR TILE WITH ASBESTOS-CONTAINING OR ASBESTOS CONTAMINATED MASTIC TO BE REMOVED.
- CARPETING OVER VINYL ASBESTOS FLOOR TILE WITH ASBESTOS-CONTAINING OR ASBESTOS CONTAMINATED MASTIC TO BE REMOVED.
- LOCATION OF SPRAY-ON FIREPROOFING AND/OR OVERSPRAY TO BE REMOVED (SHOWN FOR SECOND FLOOR ONLY).
- WALLS WITH ASBESTOS-CONTAINING JOINT COMPOUND TO BE REMOVED.
- EXTERIOR STEEL MULLION FILLED WITH ASBESTOS CONTAMINATED VERMICULITE TO BE REMOVED.
- DOOR WITH ASBESTOS-CONTAINING INSULATION TO BE REMOVED.
- EMERGENCY LIGHT OR OTHER BATTERY DEVICE WITH LEAD ACID BATTERIES TO BE REMOVED.
- SINK WITH ASBESTOS-CONTAINING UNDERCOATING TO BE REMOVED.
- HID — MERCURY CONTAINING HIGH INTENSITY DISCHARGE LAMP WITH ASSUMED PCB BALLAST TO BE REMOVED.

NOTIFICATION OF POTENTIAL HAZARDS

ASBESTOS, LEAD AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ASSUMED PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO HAZARDOUS MATERIALS SURVEY REPORT, AIRBORNE CONTAMINANT CONTROL AND HAZARDOUS MATERIALS TECHNICAL SPECIFICATIONS FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Documents
December 13, 2013

HAZARDS ABATEMENT - SECOND FLOOR

H1.3

TYPICAL ABBREVIATIONS

(A)	ABOVE
AB	ANCHOR BOLT
A/C	ASPHALITC CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT, ARCHITECTURAL
@	AT
APPROX	APPROXIMATELY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL
AWS	AMERICAN WELDING SOCIETY
&	AND
(B)	BELOW
B	BOTTOM (BEAM AND JOIST SCHEDULES ONLY)
BD	BOARD
BITUM	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BOD	BOTTOM OF DECK ELEVATION
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C	AMERICAN CHANNELS
CB	CATCH BASIN
CG	CENTER OF GRAVITY
CJ	CONSTRUCTION JOINT
CIP	CAST-IN-PLACE
CL	CENTER LINE
CJP	COMPLETE JOINT PENETRATION
CLKG	CAULKING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, CONCRETE OPENING
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTJ, CJ	CONTROL JOINT, CONTRACTION JOINT
CTR	CENTER
CTSK	COUNTERSUNK
CU	CUBIC
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DIA OR Ø	DIAMETER
DIAA	DRILLED-IN ADHESIVE ANCHOR
DIAB	DRILLED-IN ADHESIVE BOLT
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIEB	DRILLED-IN EXPANSION BOLT
DIM	DIMENSION
DN	DOWN
do	DITTO
DP	DEEP
DWG	DRAWING
DWL	DOWEL
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EXJ	EXPANSION JOINT
EL	ELEVATION (HEIGHT)
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQJ	EARTHQUAKE JOINT
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH, FINISHED
FF	FINISHED FLOOR, FAR FACE
FLG	FLANGE
FLR	FLOOR
FLASH	FLASHING
FOS	FACE OF STUDS
FP	FIREPROOF, FULL PENETRATION
FS	FINISH SLAB ELEVATION, FAR SIDE
FT OR '	FOOT, FEET
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
GA	GAUGE, GAGE
GALV	GALVANIZED
GEN	GENERAL
GIRD	GIRDER
GL	GLUE LAMINATED
GND	GROUND
GR	GRADE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HEF	HORIZONTAL EACH FACE
HORIZ	HORIZONTAL
HP	HIGH POINT, HP STEEL SHAPE
HSB	HIGH STRENGTH BOLT
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IN OR "	INCH
INCL	INCLUDE
INSUL	INSULATION, INSULATED, INSULATE
INT	INTERIOR
JT	JOINT
JST	JOIST
K	KIP, KIPS
KSI	KIPS PER SQUARE INCH
LB OR #	POUND
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEGS HORIZONTAL
LLV	LONG LEGS VERTICAL
LONGIT	LONGITUDINAL
LP	LOW POINT
LSL	LONG SLOTTED HOLES
LT	LIGHT
LT WT	LIGHT WEIGHT
L	ANGLE
M	MISCELLANEOUS SHAPE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL SECTION
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MFRG	MANUFACTURING
MIN	MINIMUM
MISC	MISCELLANEOUS
MT	STRUCTURAL TEE FROM M SERIES SECTION
MTD	MOUNTED
MTL	METAL
N	NORTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
No OR #	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OVS	OVERSIZED
P/C	PRECAST
PERP	PERPINDICULAR
PJ	PANEL JOINT
PL	PLATE (STEEL), PROPERTY LINE
PL	PLATE (WOOD)
PLCS	PLACES
PLWD	PLYWOOD
PP	PARTIAL PENETRATION
P/S	PRESTRESSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
P/T	POST TENSION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT

R	RADIUS
RD	ROOF DRAIN, ROUND
O	ROUND
REF	REFERENCE
REINF	REINFORCING, REINFORCEMENT, REINFORCED
REQD	REQUIRED
RO	ROUGH OPENING
S	AMERICAN STANDARD STEEL SHAPE, SOUTH
SCHED	SCHEDULE
SEC-	SECTION
SH	SHEAR PLATE
SHT	SHEET
SHTG	SHEETING
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SLBB	SHORT LEGS BACK TO BACK
SP	SPIRAL
SPA	SPACE, SPACING
	SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLE
ST	STRUCTURAL T FROM S SERIES SECTION
STA	STATION
STD	STANDARD
STIFF	STIFFENED
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SUP	STRUCTURAL USE PANEL
SUPT	SUPPORT
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T	TOP
TC	TOP OF CURB
T&G	TOUNGE AND GROOVE
TEMP	TEMPERATURE, TEMPORARY
THK	THICK
THRU	THROUGH
TOB	TOP OF BEAM ELEVATION
TOC	TOP OF CONCRETE ELEVATION,
	TOP OF CMU ELEVATION
TOF	TOP OF FOOTING ELEVATION
TOS	TOP OF STEEL ELEVATION
TOW	TOP OF WALL ELEVATION
TP	TOP OF PAVEMENT
TRANS	TRANSVERSE
TS	STRUCTURAL TUBE
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UT	ULTRASONIC TEST
VEF	VERTICAL EACH FACE
VERT	VERTICAL
VIF	VERTICAL EACH FACE
VOF	VERTICAL OUTSIDE FACE
W	WEST, W SERIES SECTION
W/	WITH
W/O	WITHOUT
WD	WOOD
WH	WEEP HOLE
WP	WATERPROOF, WORK POINT
WPJ	WEAKENED PLANE JOINT
WT	WEIGHT, STRUCTURAL TEE FROM W SERIES SECTION
WWF	WELDED WIRE FABRIC
YD	YARD

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome, Alaska

State Project No.: NS0B001

BID DOCUMENTS
DECEMBER 13, 2013

TYPICAL ABBREVATIONS

S0.1

GENERAL NOTES

THE FOLLOWING NOTES APPLY UNLESS INDICATED OTHERWISE:

CODE:

INTERNATIONAL BUILDING CODE, 2009 EDITION.

DESIGN LIVE LOADS:

ROOF	Pg = 70 PSF, Pf = 39 PSF I = 1.0, Ce = 0.8, Ct = 1.0
SNOW DRIFT	ASCE 7-05, CHAPTER 7
FLOORS	
UNIFORM	50 PSF, WITH LIVE LOAD REDUCTION
CONCENTRATED	2000 LB
PARTITIONS	15 PSF
CORRIDORS, STAIRS	100 PSF
WIND	130 MPH 3-SECOND GUST EXPOSURE D BUILDING CATEGORY II, I = 1.0 (GCpi) = 0.18, qh = 43.9
COMPONENTS AND CLADDING	
WALL - WITHIN 5 FT OF OUTSIDE CORNERS	-63.2 PSF
REMAINDER OF WALL	-51.4 PSF
ROOF - WITHIN 5 FT OF ROOF CORNERS	-130.8 PSF
WITHIN 5 FT OF ROOF EDGES	-89.9 PSF
REMAINDER OF ROOF	-51.8 PSF
SEISMIC	I = 1.0, SEISMIC USE GROUP II Ss = 0.51, S1 = 0.14 SOIL SITE CLASS D Sds = 0.47, Sd1 = 0.21, SEISMIC DESIGN CATEGORY D BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL CONCENTRIC BRACED FRAME SPECIAL REINFORCED CONCRETE SHEAR WALL Cs = 0.146, R = 3.25, OMEGA = 2.0 V BASE = 206 K EQUIVALENT LATERAL FORCE ANALYSIS

REINFORCED CONCRETE:

ALL CONCRETE - f'c = 4000 PSI, MAXIMUM W/C = 0.45. SUBMIT MIX DESIGN. SEE SPECIFICATIONS FOR ADMIXTURES. SPECIAL INSPECTION REQUIRED.

UNLESS OTHERWISE NOTED, REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. PROVIDE CLASS B SPLICE. SUBMIT REINFORCING STEEL SHOP DRAWINGS WITH DETAILS PER ACI 315 MANUAL OF STANDARD PRACTICE.

ASTM A706, GRADE 60, REINFORCING STEEL SHALL BE USED FOR WELDED OR FIELD-BENT BARS.

WELDED WIRE FABRIC PER ASTM A185. FURNISH IN FLAT SHEETS, NOT ROLLS. LAP EDGES 1'-0".

CONCRETE COVER:

WALLS 1", EXCEPT 1 1/2" WHERE EXPOSED TO WEATHER AND 2" AGAINST EARTH.

WALLS:

REINFORCE 6" WALLS WITH #5 @ 15" HORIZONTAL AND VERTICAL @ CENTER OF WALL. HOOK HORIZONTAL REINFORCING AT WALL OPENINGS.

AT OPENINGS OVER 12" SQUARE, PROVIDE 2-#5 BARS AT CENTER OF WALL ALL FOUR SIDES, PROVIDE 1-#5x4'-0" DIAGONAL BAR AT CENTER OF WALL ALL FOUR CORNERS.

AT CORNERS, PROVIDE CORNER BARS IN OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS, 40 DIA. EACH LEG.

AT INTERSECTIONS, PROVIDE CORNER BARS OF SAME SIZE, NUMBER AND SPACING AS HORIZONTAL BARS OF INTERSECTING WALL, 40 DIA. EACH LEG.

PROVIDE 2-#5 LONGITUDINAL BARS AT TOP OF WALLS. PROVIDE ROUGHENED SURFACE AT CONSTRUCTION JOINTS.

PROVIDE VERTICAL DOWELS OF SAME SIZE, NUMBER AND SPACING AS VERTICAL BARS EXCEPT SINGLE DOWEL AT DOUBLE VERTICAL BARS.

GROUT:

GROUT - 5000 PSI MINIMUM 7-DAY CUBE STRENGTH PER ASTM C1107. GROUT TO BE PREMIXED, NONMETALLIC, SHRINKAGE-RESISTANT GROUT PER ASTM C1107. USE SPECIFIC GROUT MIX RECOMMENDED BY MANUFACTURER FOR EACH GROUT APPLICATION AND FOLLOW MANUFACTURER'S INSTRUCTIONS.

DRILL-IN EXPANSION ANCHORS:

"KWIK BOLT TZ" BY HILTI FASTENING SYSTEMS OR APPROVED EQUAL. ICC-ES CERTIFICATION REQUIRED. SPECIAL INSPECTION REQUIRED.

DRILL-IN ADHESIVE ANCHORS:

"HIT-RE 500-SD" ADHESIVE ANCHOR SYSTEM BY HILTI FASTENING SYSTEMS FOR CONCRETE OR APPROVED EQUAL. ICC-ES CERTIFICATION REQUIRED. SPECIAL INSPECTION REQUIRED.

STRUCTURAL STEEL:

ALL STEEL ASTM A36, EXCEPT WIDE FLANGE SECTIONS TO BE ASTM A992, OR A572-50. SPECIAL INSPECTION REQUIRED. FABRICATION AND ERECTION PER AISC SPECIFICATIONS. FABRICATOR SHALL PARTICIPATE IN AISC QUALITY CERTIFICATION PROGRAM AND BE DESIGNATED AN AISC CERTIFIED PLANT, CATEGORY STD. SUBMIT SHOP DRAWINGS.

WELDING PER AWS D1.1. MINIMUM SIZE WELDS 3/16" CONTINUOUS FILLET. WELDERS CERTIFIED PER AMERICAN WELDING SOCIETY FOR ROD AND POSITION. ELECTRODES SHALL BE E70XX MINIMUM, WITH MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT -20 DEG F.

HIGH-STRENGTH BOLTS PER ASTM A325. TYPICAL BOLTED CONNECTIONS – SNUG TIGHTENED.

APPLY ONE COAT OF SHOP PAINT TO ALL STEEL EXCEPT FOR CONTACT SURFACES IN BOLTED PARTS, SURFACES EMBEDDED IN CONCRETE, AREAS TO BE FIELD WELDED OR SURFACES WITH SPRAY-ON FIREPROOFING.

HEADED SHEAR STUDS - SHEAR STUDS PER ASTM A108, GRADES 1010 THRU 1020, HEADED TYPE, AWS D1.1, TYPE B, AUTOMATICALLY END WELDED.

COLD-FORMED STEEL FRAMING:

GALVANIZED STEEL SHALL BE ASTM A653, Fy = 50 KSI, EXCEPT 43 MIL AND LIGHTER SHALL BE Fy = 33 KSI. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".

WALL STUDS - 6" x 54 MIL, Imin = 2.86 IN4 Smin = 0.93 IN3.

DEFERRED SUBMITTALS:

THE FOLLOWING DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT AND THE LOCAL BUILDING DEPARTMENT.

STEEL FABRICATOR'S AISC CERTIFICATION, CATEGORY STD
STAIR DESIGN
EXTERIOR COLD FORMED STEEL STUD WALL SYSTEMS
CURTAIN WALL DESIGN

REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OTHER DEFERRED SUBMITTALS.

MISCELLANEOUS:

CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON EITHER SITE OBSERVATION, ORIGINAL DRAWINGS OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF THE EXISTING CONDITIONS DO NOT CLOSELY MATCH THE CONDITIONS SHOWN ON THE DRAWINGS, OR IF THE EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY THE ARCHITECT PRIOR TO COMMENCING ANY WORK.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, ARCHITECTURAL TREATMENT AND DIMENSIONS NOT SHOWN.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF DUCT OPENINGS, PIPING, CONDUITS, ETC, NOT SHOWN.

SHOP DRAWINGS SHALL BE SUBMITTED AND REVIEWED PRIOR TO FABRICATION.

PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

REFER TO SPECIFICATIONS FOR INFORMATION NOT CONTAINED IN THESE GENERAL NOTES.

SPECIAL INSPECTION:

THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL EMPLOYED BY THE OWNER OR THE OWNER'S AGENT. THE CONTRACTOR SHALL COORDINATE WORK WITH THE SPECIAL INSPECTORS.

SPECIAL INSPECTORS SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER AND TO THE ARCHITECT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD.

THE SPECIAL INSPECTORS SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTORS' KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE APPLICABLE CODES.

PROVIDE THE FOLLOWING SPECIAL INSPECTIONS PER SECTION 1704 OF THE 2009 INTERNATIONAL BUILDING CODE (IBC):

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION:

INSPECTION OF REINFORCING STEEL AND PLACEMENT. ACI 318: 3.5, 7.1-7.7:

A) PERIODIC INSPECTION PRIOR TO CLOSING THE FORMS AND DELIVERY OF CONCRETE TO THE SITE.
B) PERIODIC INSPECTION OF PLACEMENT OF REINFORCING.
C) PERIODIC VERIFICATION OF MILL REPORT FOR MATERIAL.

INSPECTION OF REINFORCING STEEL WELDING. AWS: D1.4, ACI 318: 3.5.2:

A) PERIODIC VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.
B) CONTINUOUS INSPECTION OF SHEAR REINFORCEMENT OF SPECIAL REINFORCED CONCRETE SHEAR WALLS.
C) CONTINUOUS INSPECTION OF SHEAR REINFORCEMENT.
D) PERIODIC INSPECTION OF OTHER REINFORCING STEEL.

PROVIDE CONTINUOUS INSPECTION OF ANCHOR BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.

PERIODICALLY VERIFY USE OF REQUIRED DESIGN MIX. ACI 318: CH. 4, 5.2-5.4.

CONTINUOUSLY INSPECT DURING THE PLACING OF CONCRETE FOR PROPER APPLICATION TECHNIQUES.

OBSERVE THE SAMPLING OF CONCRETE FOR MOULDING TEST SPECIMENS. ASTM C 172, ASTM C 31, ACI 318: 5.6, 5.8:

PROVIDE CONTINUOUS INSPECTION DURING THE TAKING OF TEST SPECIMENS FOR SLUMP, AIR ENTRAINMENT, AND COMPRESSIVE STRENGTH CYLINDERS FOR A MINIMUM OF ONE HOUR AT THE BEGINNING OF EACH POUR.

PERIODICALLY INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. ACI 318: 5.11-5.13.

PERIODICALLY INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. ACI 318: 6.1.1.

VERIFICATION AND INSPECTION OF DRILLED ANCHORS:

ADHESIVE ANCHORS:

CONTINUOUSLY INSPECT DURING THE DRILLING AND PLACEMENT IN ACCORDANCE WITH THE ADHESIVE ANCHOR MANUFACTURER'S ICC EVALUATION SERVICE REPORT.

EXPANSION ANCHORS IN CONCRETE OR MASONRY:

CONTINUOUSLY INSPECT DURING THE DRILLING AND PLACEMENT IN ACCORDANCE WITH THE ADHESIVE ANCHOR MANUFACTURER'S ICC EVALUATION SERVICE REPORT.

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION:

MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:

PERIODICALLY INSPECT IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.

INSPECTION OF HIGH-STRENGTH BOLTING PER AISC 360 SECTION M2.5:

A) PERIODICALLY INSPECT SNUG TIGHT JOINTS.

MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK:

A) PERIODICALLY INSPECT STRUCTURAL STEEL IDENTIFICATION MARKINGS, TO CONFORM TO AISC 360.
B) PERIODICALLY INSPECT OTHER STEEL IDENTIFICATION MARKINGS, TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
C) PERIODICALLY INSPECT MANUFACTURER'S CERTIFIED MILL TEST REPORTS.

VERIFICATION OF WELD FILLER MATERIALS:

PERIODICALLY INSPECT IDENTIFICATION MARKINGS, TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.

INSPECTION OF WELDING FOR STRUCTURAL STEEL:

A) CONTINUOUSLY INSPECT COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. AWS D1.1.
B) CONTINUOUSLY INSPECT MULTI-PASS FILLET WELDS. AWS D1.1.
C) CONTINUOUSLY INSPECT SINGLE-PASS FILLET WELDS > 5/16". AWS D1.1.
D) CONTINUOUSLY INSPECT PLUG AND SLOT WELDS.
E) PERIODICALLY INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16". AWS D1.1
F) PERIODICALLY INSPECT FLOOR AND ROOF DECK WELDS. AWS D1.3.

INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS:

A) PERIODICALLY INSPECT DETAILS SUCH AS BRACING AND STIFFENING.
B) PERIODICALLY INSPECT MEMBER LOCATIONS.
C) PERIODICALLY INSPECT APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

REVISIONS

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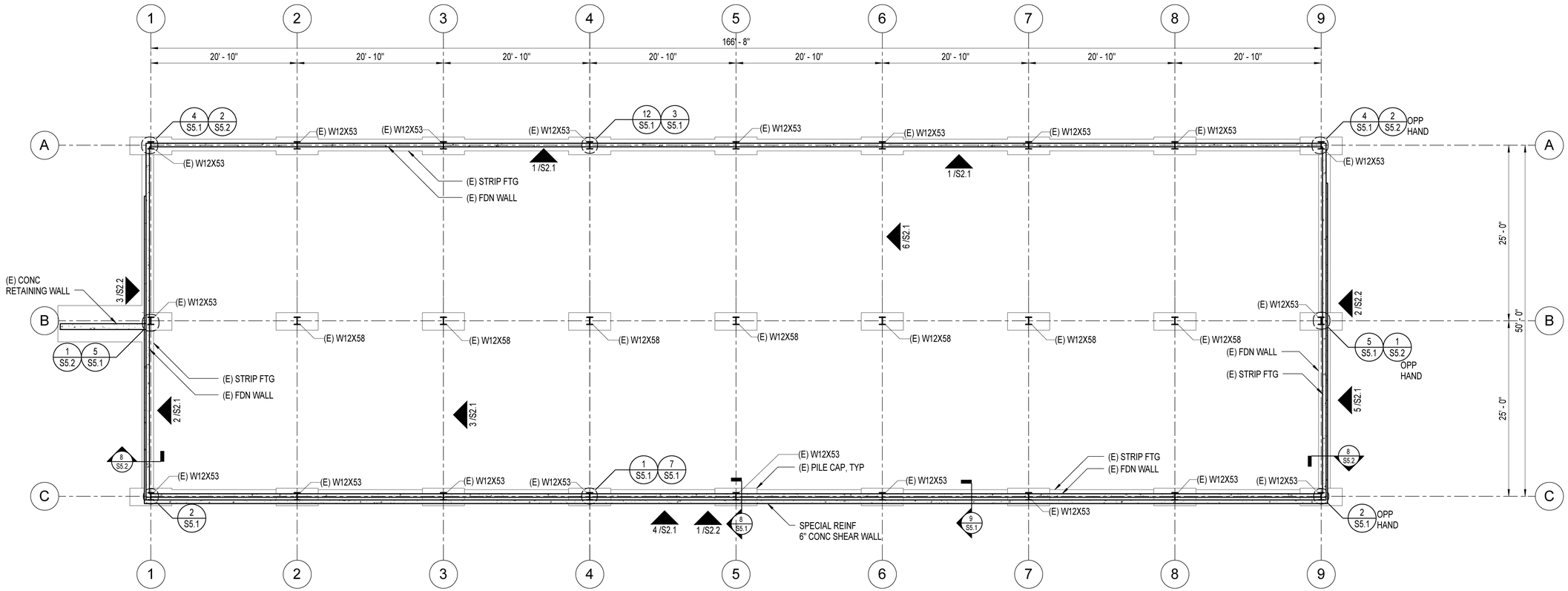
Nome State Office Building Remodel

Nome, Alaska

State Project No.: NS0B001

BID DOCUMENTS
DECEMBER 13, 2013

GENERAL NOTES
S0.2



NOTES:

1. ELEVATIONS ARE WITH RESPECT TO TOP OF FIRST FLOOR SLAB ELEVATION 0'-0".
2. L2x2x1/4 BRACING INDICATED BY - - - - - - - .
3. SEE 7/S5.5 FOR COLUMN INSPECTION AND REINFORCEMENT REQUIREMENTS.

1 FOUNDATION PLAN

1/8" = 1'-0"

REVISIONS

No	Description	Date

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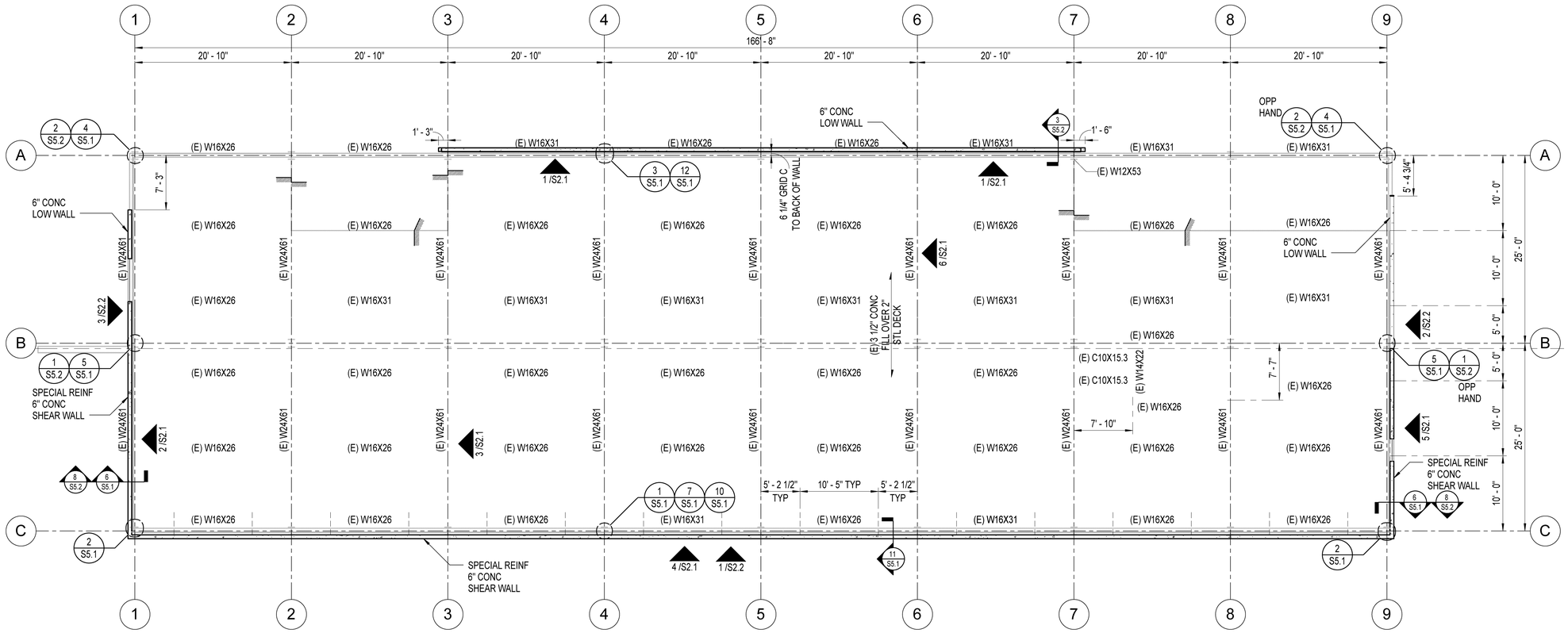
FOUNDATION PLAN

S1.1



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2. L2x2x1/4 BRACING INDICATED BY - - - - - -.
3. SEE 7/S5.5 FOR COLUMN INSPECTION AND REINFORCEMENT REQUIREMENTS.

1 FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

REVISIONS

No	Description	Date

DRAWINGS PREPARED BY:

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Anchorage, Alaska 99509-1139

Phone: 907-274-2236 | F: 907-274-2520

DENNIS L. BERRY
12/13/2013
CE 4838

Nome State Office Building Remodel

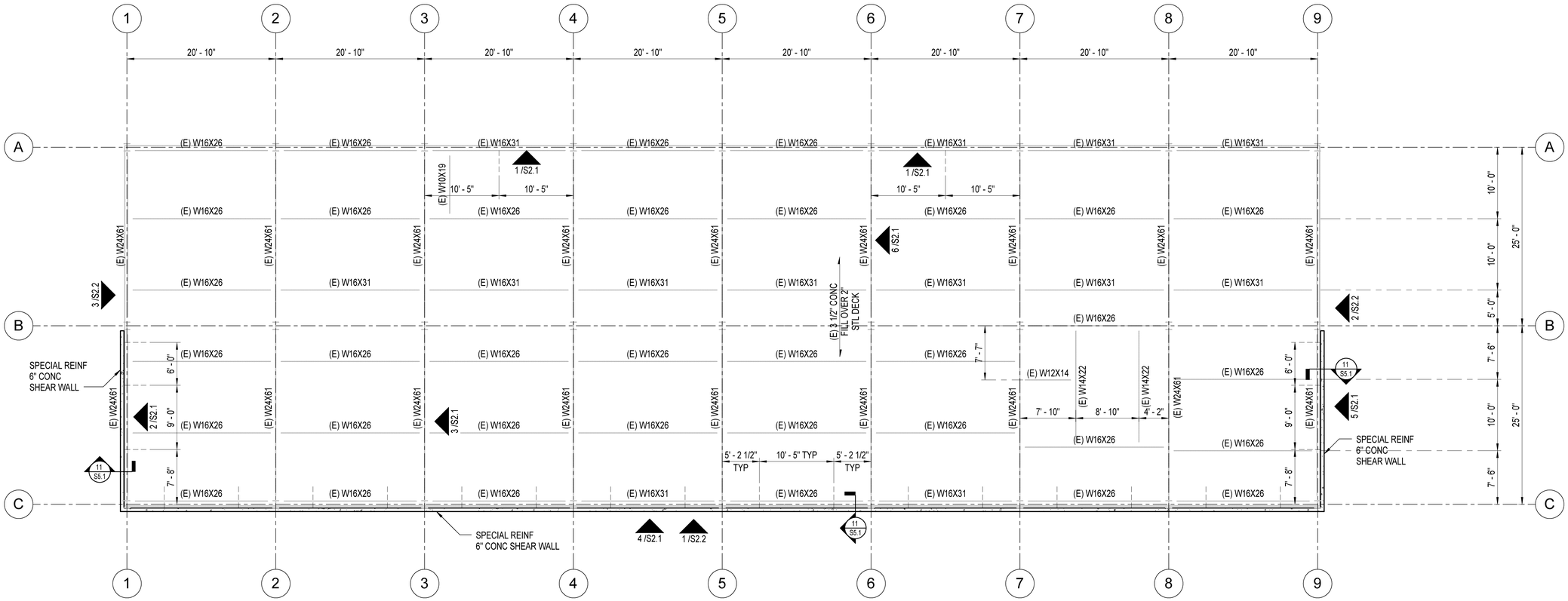
Nome, Alaska

State Project No.: NS0B001

BID DOCUMENTS
DECEMBER 13, 2013

FIRST FLOOR FRAMING PLAN

S1.2



NOTES:

1. ELEVATIONS ARE WITH RESPECT TO TOP OF FIRST FLOOR SLAB ELEVATION 0'-0".
2. L2x2x1/4 BRACING INDICATED BY - - - - - - - -.
3. SEE 7/S5.5 FOR COLUMN INSPECTION AND REINFORCEMENT REQUIREMENTS.

1 SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

REVISIONS

No	Description	Date

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12/13/2013
CE 4838

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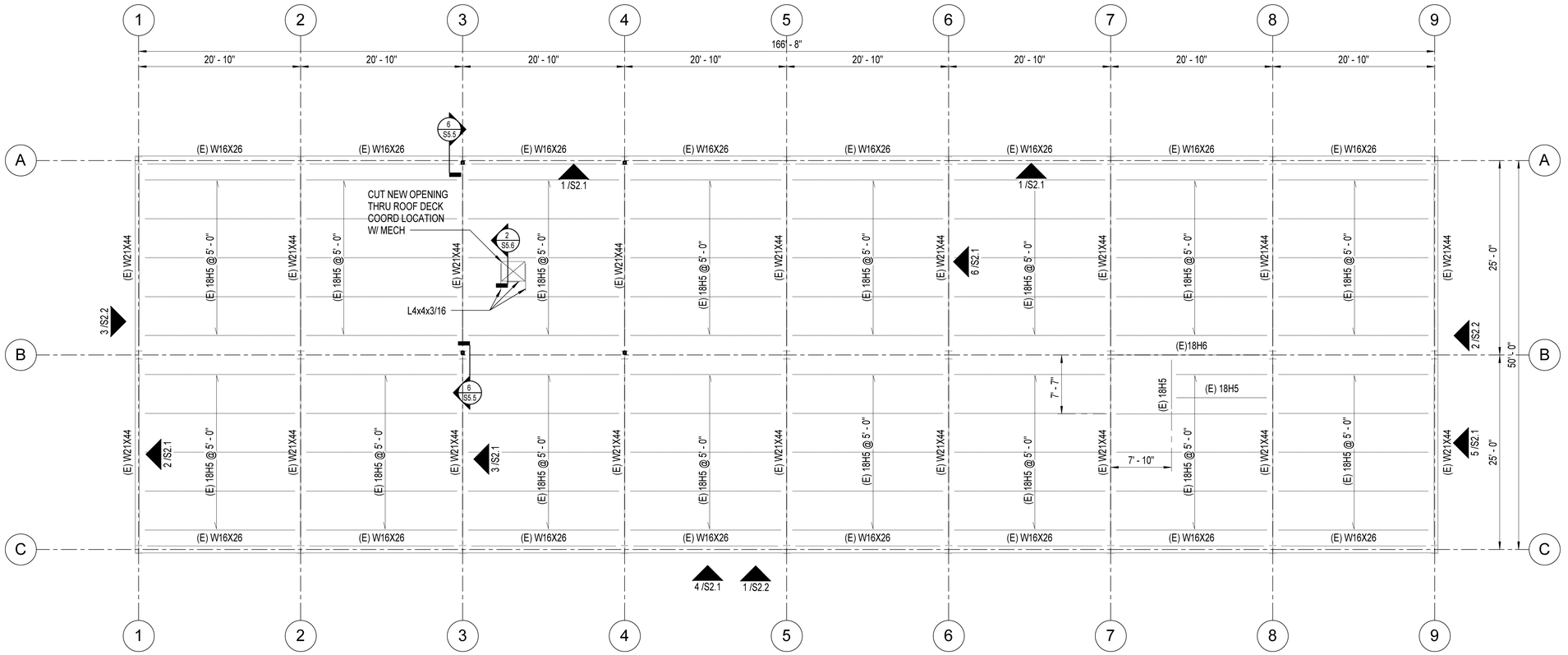
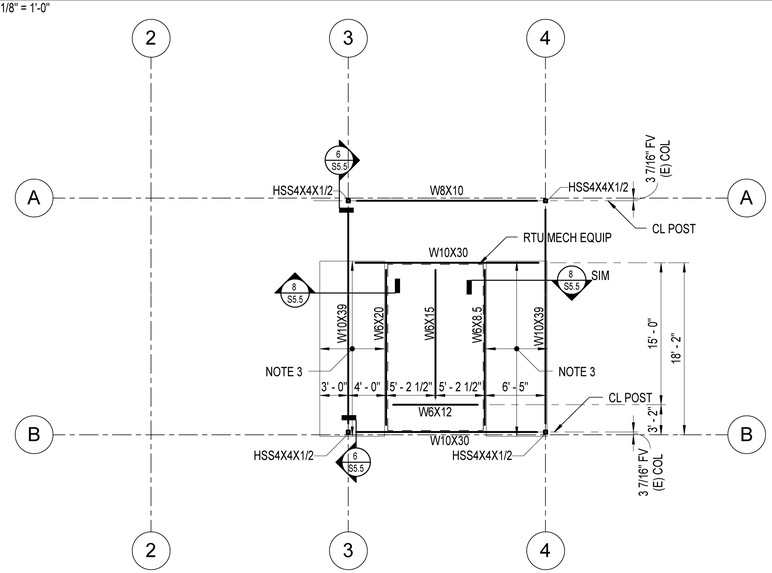
BID DOCUMENTS
DECEMBER 13, 2013

2ND FLOOR FRAMING PLAN

S1.3



1 ROOF FRAMING PLAN
1/8" = 1'-0"



2 RTU SUPPORT FRAME PLAN
1/8" = 1'-0"

NOTES:

1. ELEVATIONS ARE WITH RESPECT TO TOP TO FIRST FLOOR SLAB ELEVATION 0'-0".
2. RTU SUPPORT FRAME TOP OF STEEL ELEVATION 30'-0".
3. McNICHOLS 12GAx3" DP GRIP STRUT PLANK GRATING OR EQUAL. PROVIDE IN 2'-0" WIDTHS.

REVISIONS

No	Description	Date

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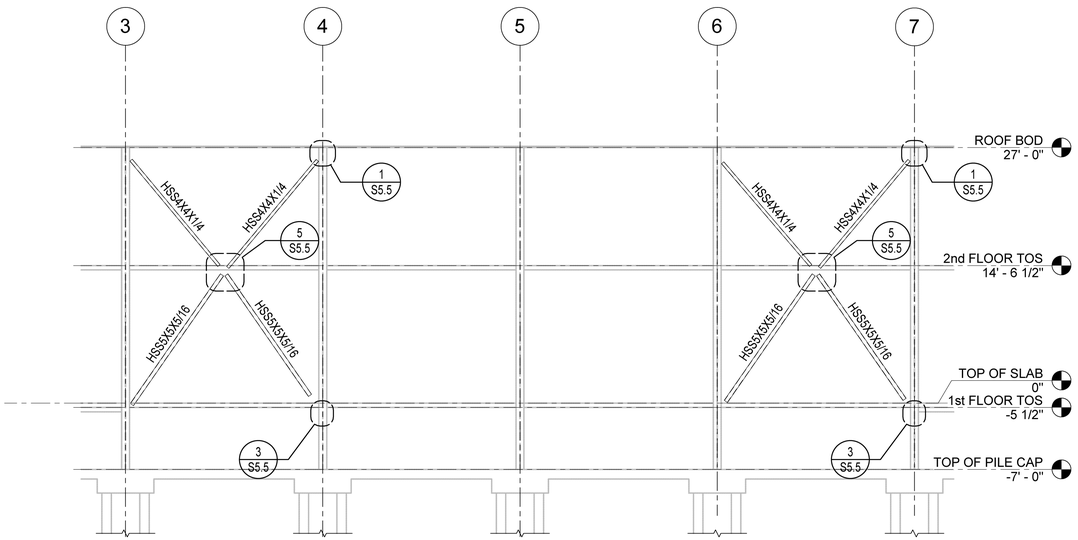
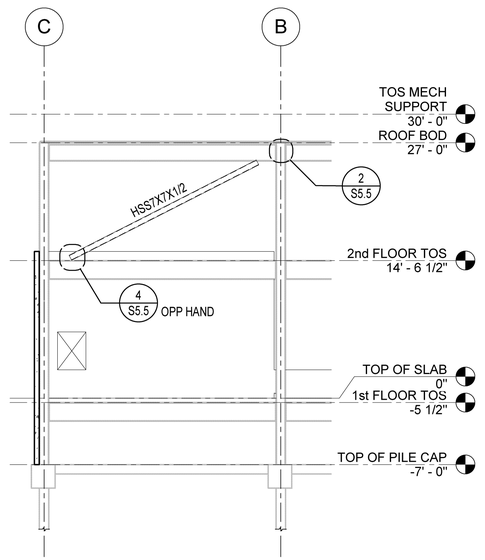
BID DOCUMENTS
DECEMBER 13, 2013

ROOF FRAMING PLAN

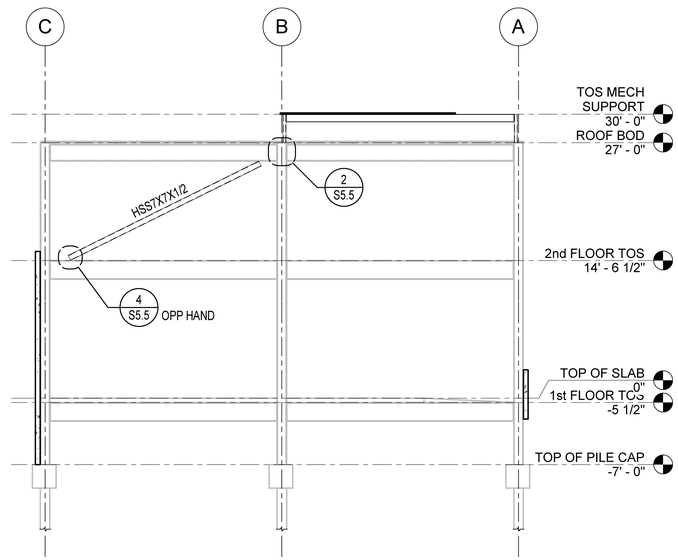
S1.4



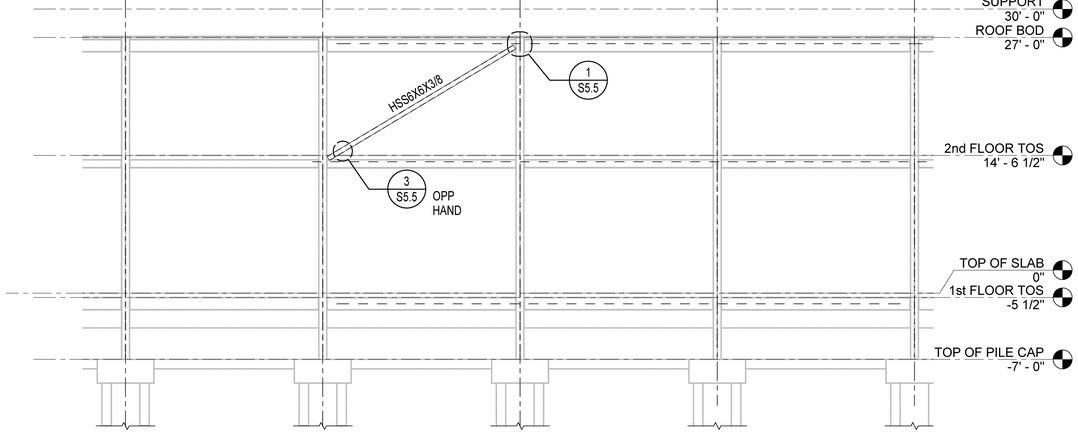
1 GRID A BRACING
1/8" = 1'-0"



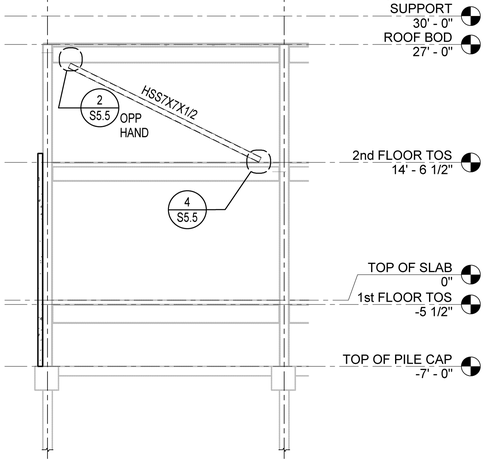
2 GRID 1 BRACING
1/8" = 1'-0"



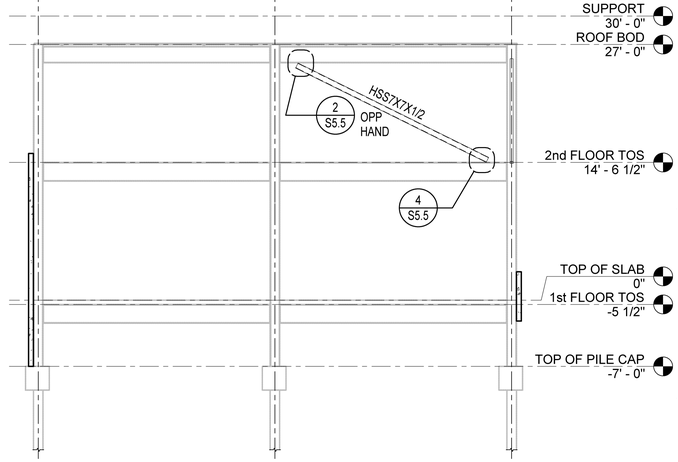
3 GRID 3 BRACING
1/8" = 1'-0"



4 GRID C BRACING
1/8" = 1'-0"



5 GRID 9 BRACING
1/8" = 1'-0"



6 GRID 6 BRACING
1/8" = 1'-0"

REVISIONS

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BID DOCUMENTS
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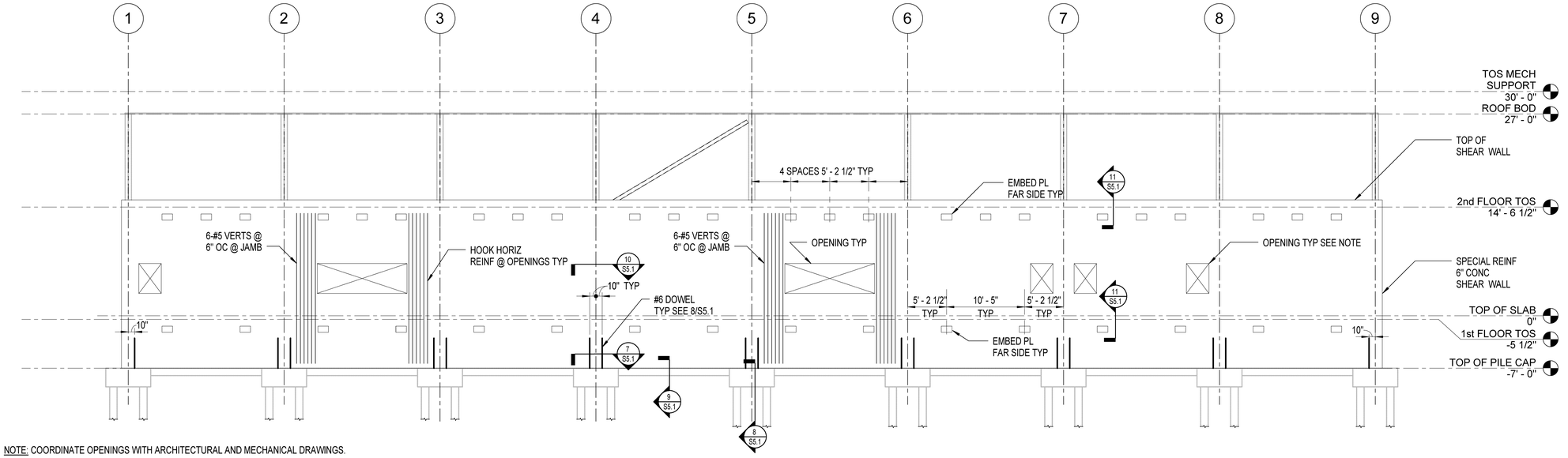
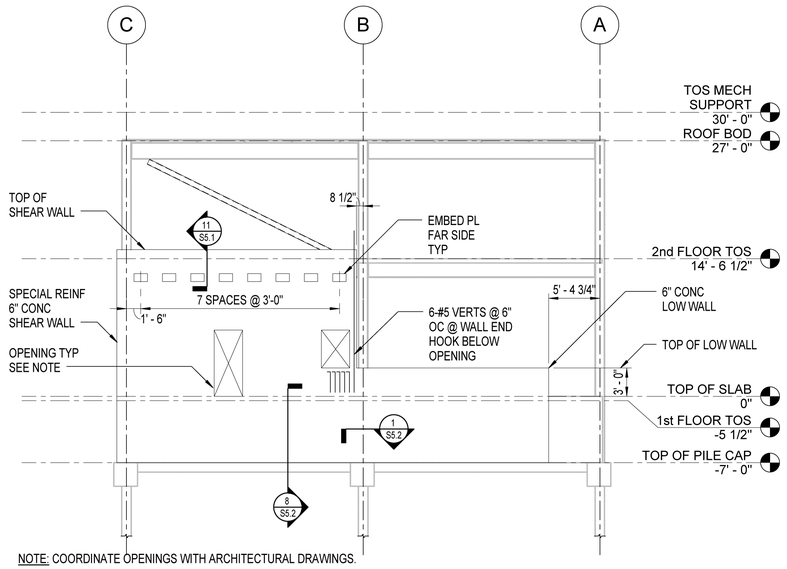
BRACE ELEVATIONS
S2.1



NOTE: COORDINATE OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

1 SOUTH ELEVATION

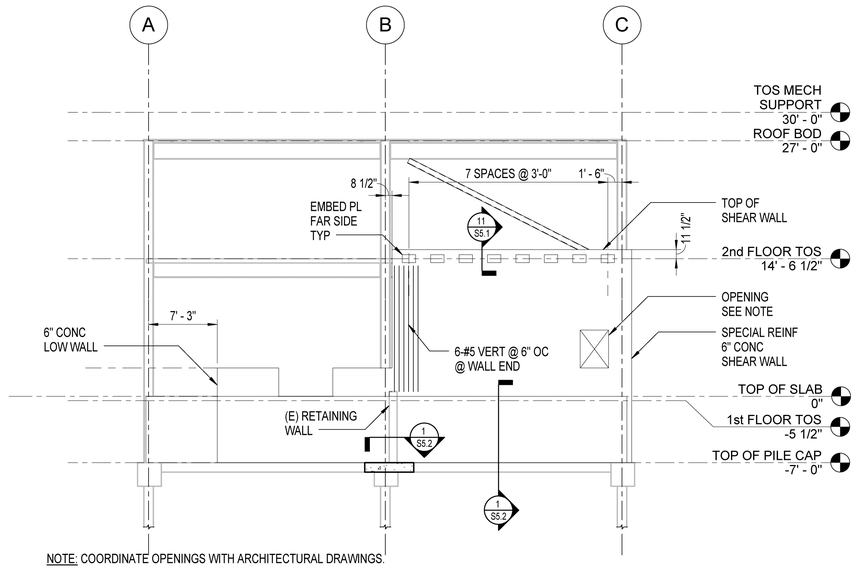
1/8" = 1'-0"



NOTE: COORDINATE OPENINGS WITH ARCHITECTURAL DRAWINGS.

2 EAST ELEVATION

1/8" = 1'-0"



NOTE: COORDINATE OPENINGS WITH ARCHITECTURAL DRAWINGS.

3 WEST ELEVATION

1/8" = 1'-0"

REVISIONS

No	Description	Date

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12/13/2013
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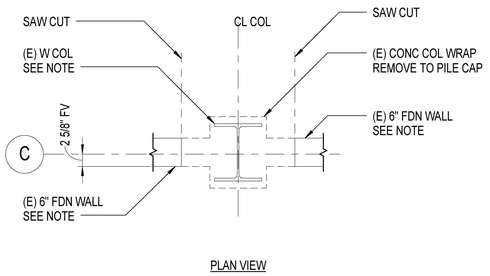
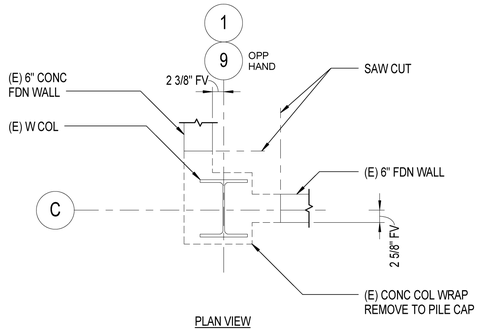
BID DOCUMENTS
DECEMBER 13, 2013

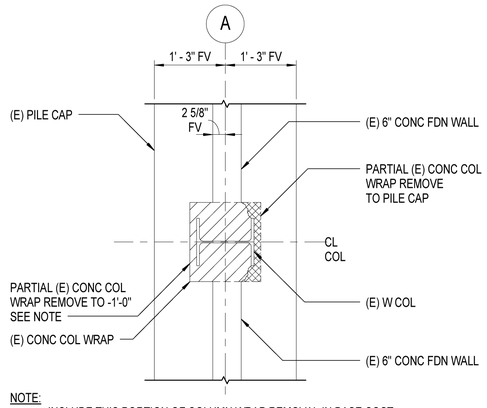
WALL ELEVATIONS
S2.2



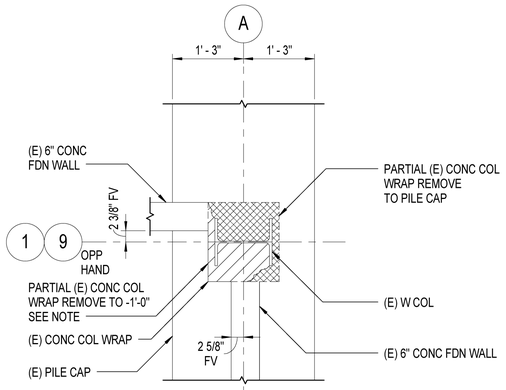
PLAN VIEW



PLAN VIEW

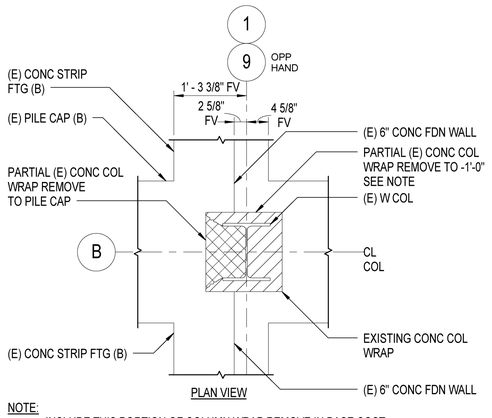


NOTE:
INCLUDE THIS PORTION OF COLUMN WRAP REMOVAL IN BASE COST. PROVIDE A UNIT COST FOR ADDITIONAL DEPTH OF COLUMN WRAP REMOVAL TO BE DONE AS INDICATED BY THE ENGINEER OF RECORD.



NOTE:
INCLUDE THIS PORTION OF COLUMN WRAP REMOVAL IN BASE COST. PROVIDE A UNIT COST FOR ADDITIONAL DEPTH OF COLUMN WRAP REMOVAL TO BE DONE AS INDICATED BY THE ENGINEER OF RECORD.

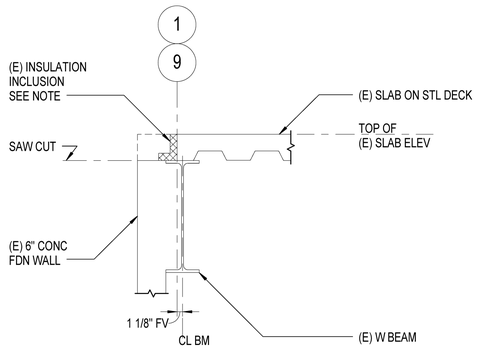
1 COLUMN WRAP DEMOLITION AT GRID C
3/4" = 1'-0"



PLAN VIEW

NOTE:
INCLUDE THIS PORTION OF COLUMN WRAP REMOVE IN BASE COST. PROVIDE A UNIT COST FOR ADDITIONAL DEPTH OF COLUMN WRAP REMOVAL TO BE DONE AS INDICATED BY THE ENGINEER OF RECORD.

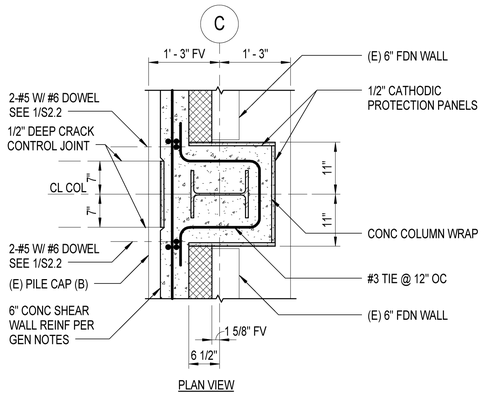
2 CORNER COL WRAP DEMO GRID C
3/4" = 1'-0"



NOTE:
WHERE EXISTING INSULATION INCLUSION OCCURS REMOVE TOP OF EXISTING CONCRETE FOUNDATION WALL AND INSULATION TO TOP OF EXISTING W BEAM. IF INSULATION IS NOT PRESENT THEN DEMO IS NOT REQUIRED.

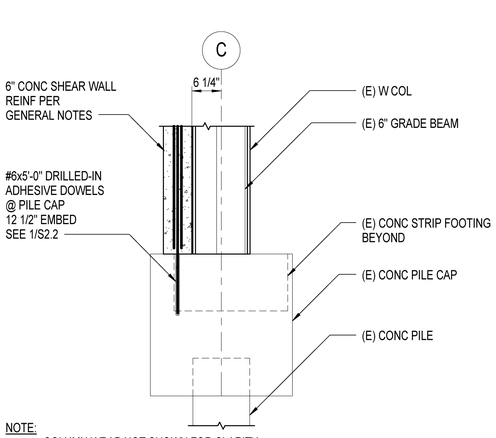
3 TYP COL WRAP DEMOLITION GRID A
3/4" = 1'-0"

4 CORNER COL WRAP DEMO GRID A
3/4" = 1'-0"



PLAN VIEW

5 CONC COL WRAP @ GRIDS 1 & 9
3/4" = 1'-0"

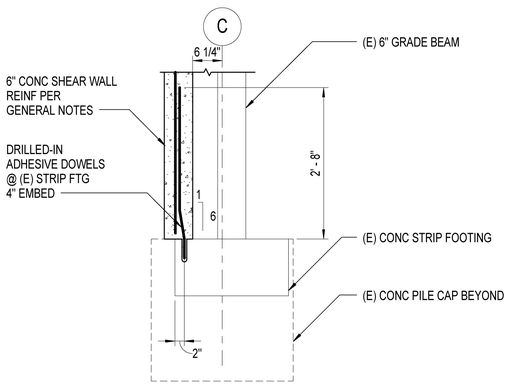


NOTE:
COLUMN WRAP NOT SHOWN FOR CLARITY.

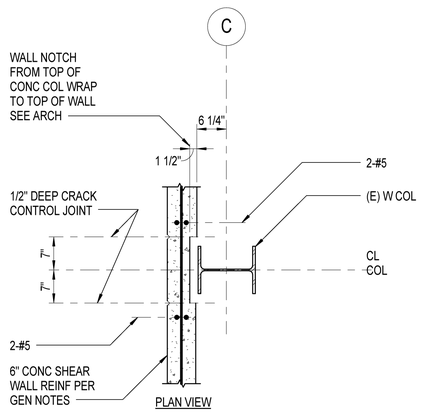
6 TOP OF EXISTING WALL DEMO
3/4" = 1'-0"

7 TYP CONC COLUMN WRAP AT GRID C
3/4" = 1'-0"

8 6" SHEAR WALL AT (E) PILE CAP
3/4" = 1'-0"

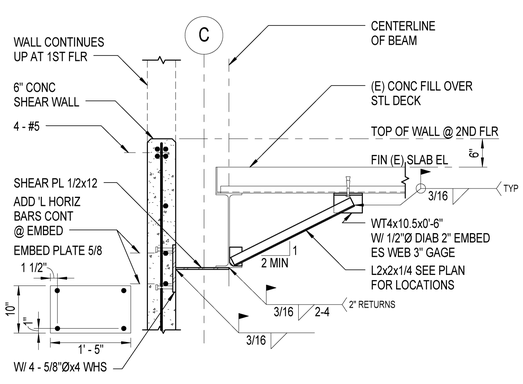


9 6" SHEAR WALL AT (E) STRIP FTG
3/4" = 1'-0"



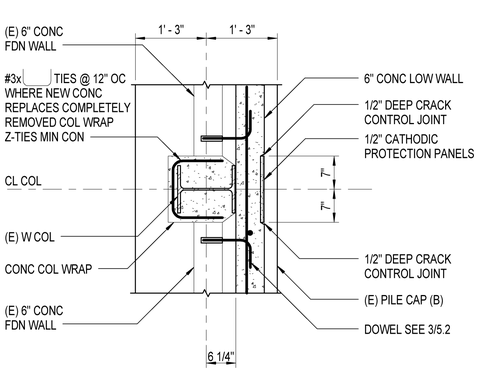
PLAN VIEW

10 SHEAR WALL NOTCH AT GRID C
3/4" = 1'-0"



NOTE:
SEE ELEV FOR LOCATION.

11 6" CONC SHEAR WALL AT 2nd FLR
3/4" = 1'-0"



NOTE:
REPLACE PORTIONS OF DEMOLISHED WRAP TO ORIGINAL EXTENTS. MATCH SURFACE FINISH W/ ADJACENT REMAINING EXISTING CONCRETE.

12 TYP CONC COL WRAP AT GRID A
3/4" = 1'-0"

REVISIONS

No	Description	Date

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BID DOCUMENTS
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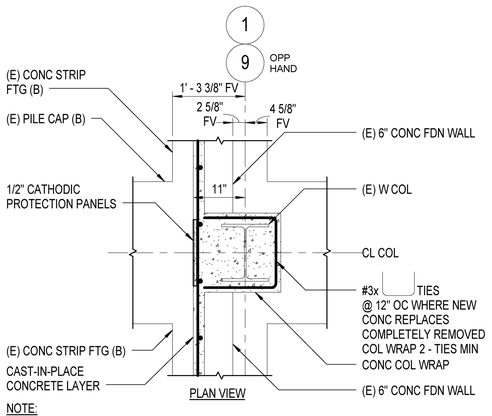
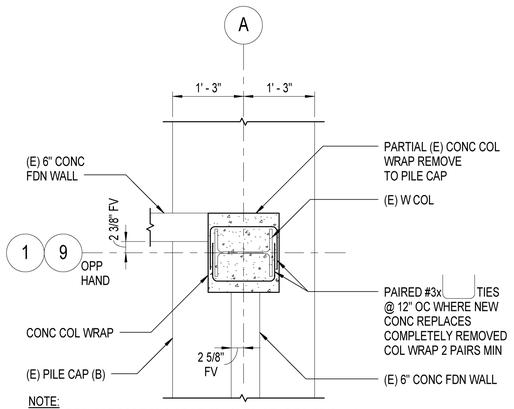
CONCRETE DETAILS

S5.1



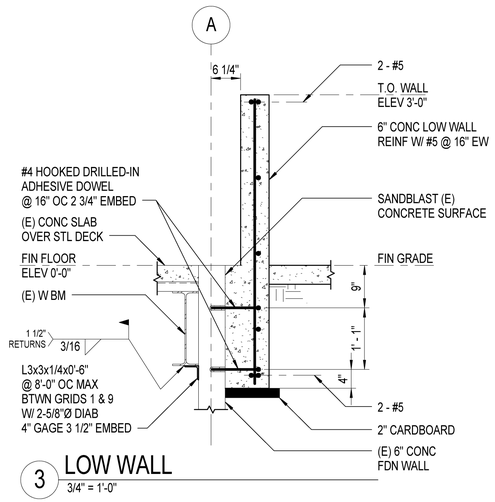
NOTE:
REPLACE PORTIONS OF DEMOLISHED WRAP TO ORIGINAL EXTENTS. MATCH SURFACE FINISH W/ ADJACENT REMAINING EXISTING CONCRETE.

1 CONC COL WRAP @ GRIDS 1 & 9
3/4" = 1'-0"

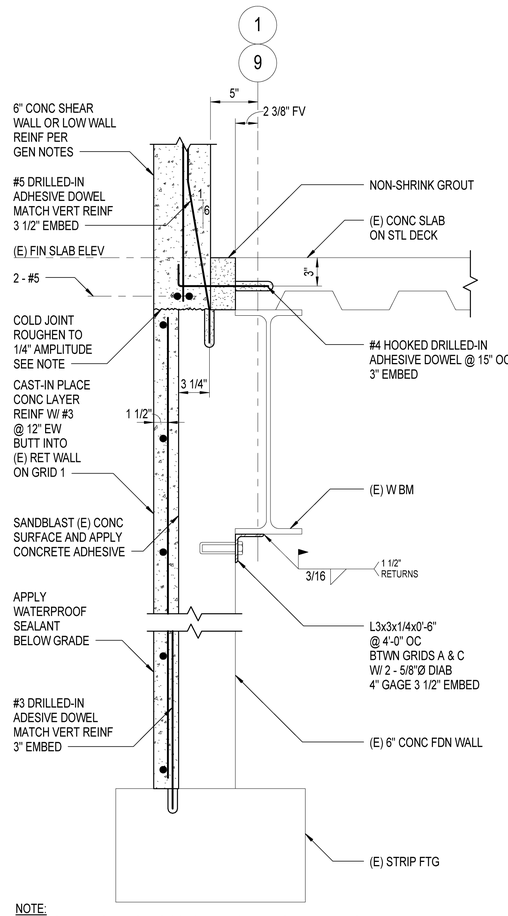


NOTE:
REPLACE PORTIONS OF DEMOLISHED WRAP TO ORIGINAL EXTENTS. MATCH SURFACE FINISH W/ ADJACENT REMAINING EXISTING CONCRETE.

2 CORNER COL WRAP GRID A
3/4" = 1'-0"



3 LOW WALL
3/4" = 1'-0"



NOTE:
SEE _/_ FOR EXISTING CONCRETE FOUNDATION WALL DEMO.

8 SHEAR WALL AT (E) FDN AT GRIDS 1 AND 9
1 1/2" = 1'-0"

CLASS B SPLICE SCHEDULE	
BAR SIZE	CLASS B SPLICE
#3	1'-3"
#4	1'-7"
#5	2'-0"
#6	2'-5"
#7	3'-6"

NOTES:
1. SPLICE LENGTHS SHOWN ARE VALID ONLY FOR BARS MEETING THE FOLLOWING REQUIREMENTS:
   a. MIN CLEAR COVER 3/4" EXCEPT 1 1/2" AT #7 AND LARGER BARS.
   b. MIN ON CENTER SPACING = 3" EXCEPT 4" AT #7 AND LARGER BARS.

12 CLASS B SPLICE SCHEDULE
3/4" = 1'-0"

REVISIONS

No	Description	Date

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BID DOCUMENTS
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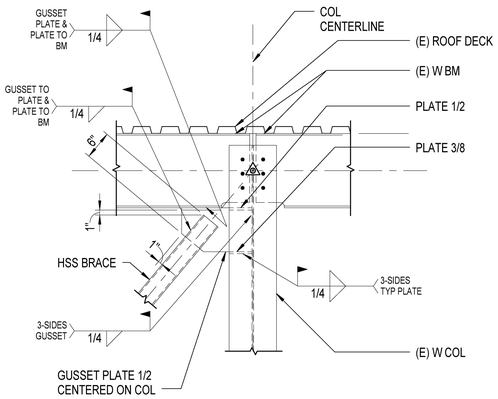
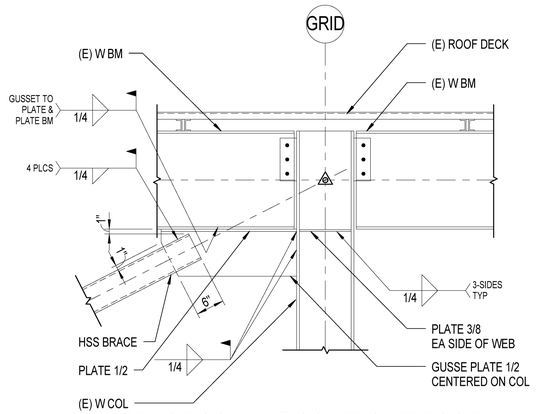
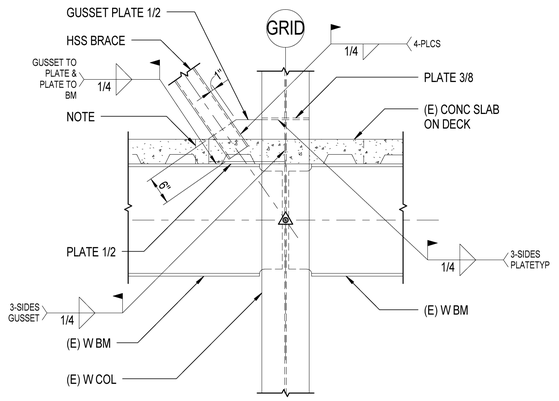
CONCRETE DETAILS
S5.2



1 BRACE CONN AT COL WEB AT ROOF
3/4" = 1'-0"

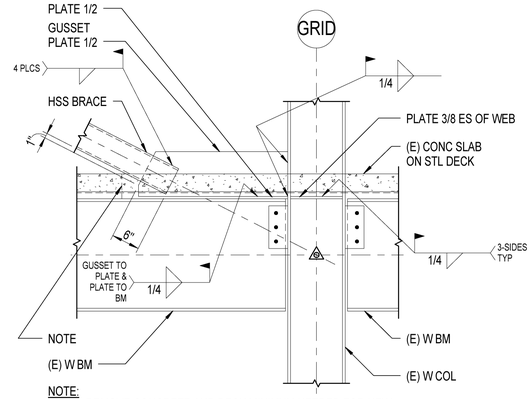


2 BRACE CONN AT COL FLG AT ROOF
3/4" = 1'-0"



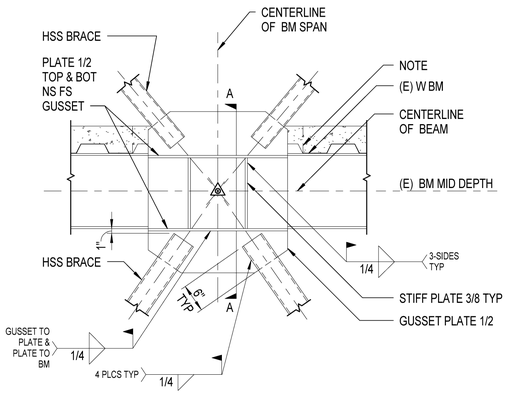
NOTE:
REMOVE CONCRETE AND DECK MINIMUM NEEDED FOR NEW WORK. MAINTAIN MINIMUM 1 1/2" SLAB BEARING LENGTH ON BEAM FLANGE.

3 BRACE CONN AT COL WEB AT FLR
3/4" = 1'-0"



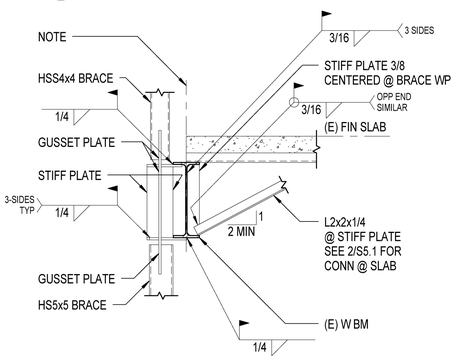
NOTE:
REMOVE CONCRETE AND DECK MINIMUM NEEDED FOR NEW WORK. MAINTAIN MINIMUM 1 1/2" SLAB BEARING LENGTH ON BEAM FLANGE.

4 BRACE CONN AT COL FLG AT FLOOR
3/4" = 1'-0"

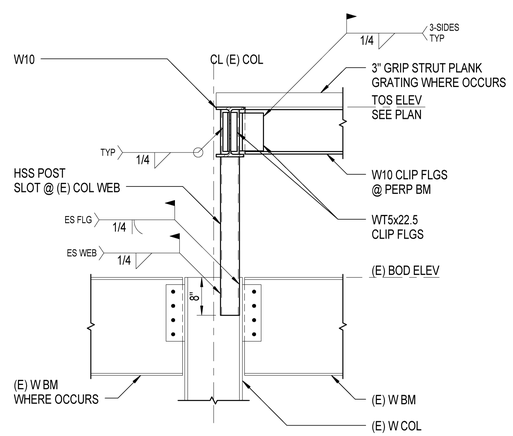


NOTE:
REMOVE CONCRETE AND DECK MINIMUM NEEDED FOR NEW WORK. MAINTAIN MINIMUM 1 1/2" SLAB BEARING LENGTH ON BEAM FLANGE.

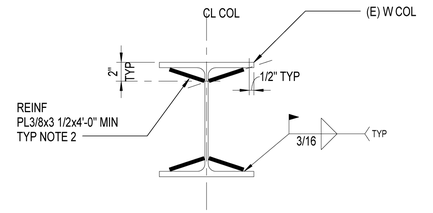
5 HSS BRACE TO W BM
3/4" = 1'-0"



SECTION A-A

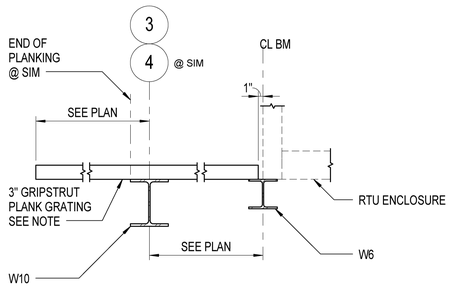


6 RTU SUPPORT FRAME POST
3/4" = 1'-0"



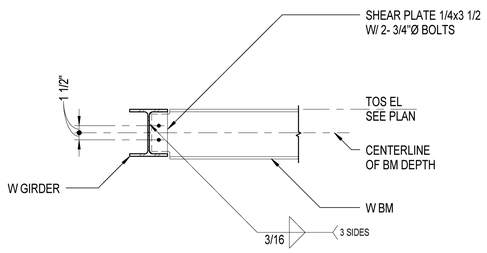
NOTES:
1. COORDINATE WITH THE ENGINEER OF RECORD FOR A SITE VISIT TO DETERMINE NECESSARY COLUMN REINFORCING. THE SITE VISIT WILL BE DONE AFTER DEMOLITION OF THE COLUMN WRAPS AFTER CORROSION IS REMOVED TO SOUND METAL AND BEFORE ANY NEW COVERING OF THE EXISTING COLUMNS TAKES PLACE.
2. FOUR POSSIBLE POSITIONS FOR REINFORCING PLATES ARE SHOWN. INSTALL REINFORCING PLATES AT LOCATIONS AND IN LENGTHS AS DIRECTED BY THE ENGINEER OF RECORD.
3. WHERE REINFORCING PLATES ARE ADDED REMOVE THE CORROSION TO SOUND METAL.
4. PROVIDE A UNIT COST IN THE BID SUBMITTAL PER COLUMN FLANGE FOR THIS WORK.

7 EXISTING COLUMN INSPECTION & REINFORCEMENT
1 1/2" = 1'-0"

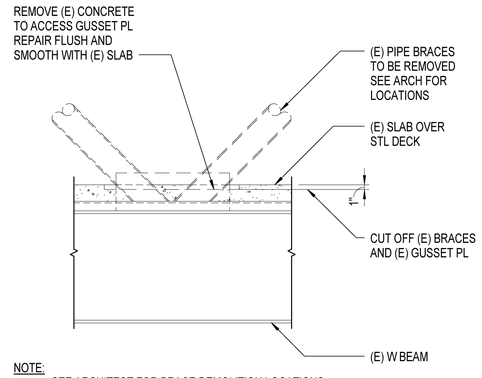


NOTE:
ATTACH PLANKS TOGETHER AND TO SUPPORTS WITH MANUFACTURER'S HARDWARE.

8 RTU SUPPORT FRAME GRATE
3/4" = 1'-0"

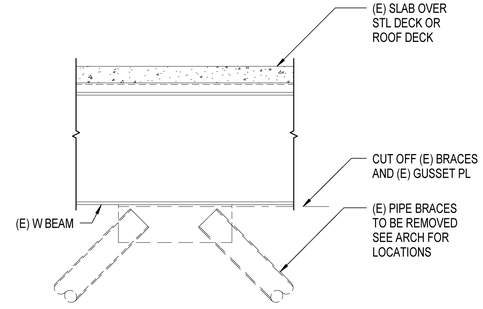


9 TYPICAL RTU FRAME BOLTED CONN
3/4" = 1'-0"



NOTE:
SEE ARCHITECT FOR BRACE DEMOLITION LOCATIONS.

10 BRACE REMOVAL AT SLAB
3/4" = 1'-0"



NOTE:
SEE ACRHITECT FOR BRACE DEMOLITION LOCATIONS

11 BRACE REMOVAL AT BEAM
3/4" = 1'-0"

REVISIONS

No	Description	Date

DRAWINGS PREPARED BY:

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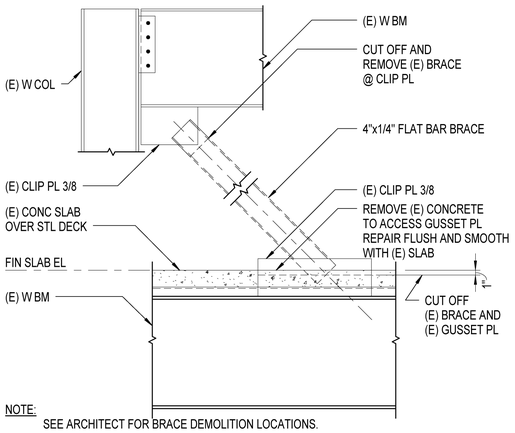
Nome State Office Building Remodel

Nome, Alaska

State Project No.: NS0B001

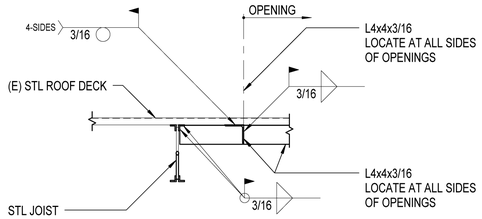
BID DOCUMENTS
DECEMBER 13, 2013

FRAMING DETAILS
S5.5



1 BRACE DEMOLITION

3/4" = 1'-0"



2 ROOF DECK OPENING AT RTU ACCESS

3/4" = 1'-0"

REVISIONS

No	Description	Date

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FRAMING DETAILS

S5.6

PIPING LEGEND

- DENOTES DEMOLITION
- WASTE
- VENT PIPING
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATED
- XXX — SEE ABBREVIATIONS FOR MEDIA
- PIPE UP
- PIPE DOWN
- TEE UP
- TEE DOWN
- CAP
- UNION
- DIRECTION OF FLOW
- BALL/BUTTERFLY VALVE
- GATE VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- CHECK VALVE
- BALANCE VALVE
- FLOW CONTROL VALVE (F.C.)
- FUSIBLE VALVE (F)
- REDUCED PRESSURE BACKFLOW PREVENTER
- PRESSURE REDUCING VALVE
- FLEXIBLE PIPING CONNECTOR
- PRESSURE/TEMPERATURE RELIEF VALVE
- HOSE BIBB
- PUMP
- CLEANOUT
- WATER HAMMER ARRESTOR

PIPING LEGEND

- FILTER (F)
- METER (M)
- PIPE GUIDE
- PIPE ANCHOR (X)
- THERMOMETER (T)
- PRESSURE GAUGE W/ ISOLATION COCK (P)
- STRAINER W/ BLOWDOWN (FOT)
- FLOOR CLEANOUT
- FLOOR DRAIN
- FLOOR SINK

LOGIC

- POINT OF CONNECTION
- 5 / M2 — DETAIL NUMBER / SHEET LOCATED ON
- DIRECTION OF VIEW / SECTION NUMBER (5) / SHEET LOCATED ON (M2)
- RADIATION DESIGNATOR (FT-1) / LENGTH (1.0) / GPM (12)
- TAG — SHEET NOTES
- CONNECTION (X) — NECK SIZE
- CFM — CFM / DIFFUSER OR GRILLE TYPE

DUCTWORK LEGEND

- THERMOSTAT (T)
- TEMPERATURE SENSOR (S)
- HUMIDITY SENSOR (H)
- CARBON DIOXIDE SENSOR (S CO2)
- THERMOSTAT OR DDC SENSOR WITH TAMPERPROOF GUARD (X)
- SUPPLY AIR UP & DOWN
- RETURN AIR UP & DOWN
- EXHAUST AIR UP & DOWN
- ROUND DUCT UP & DOWN
- VOLUME DAMPER
- MOTORIZED CONTROL DAMPER (M)
- SOUND LINED DUCTWORK
- DUCT SIZE (12/24) (FIRST FIGURE – SIDE SHOWN) (SECOND FIGURE – SIDE NOT SHOWN)
- INSULATED DUCTWORK
- TURNING VANES
- FLEXIBLE DUCT CONNECTION
- FIRE DAMPER (FD)

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
ADA	AMERICAN WITH DISABILITIES ACT GUIDELINES
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU–X	AIR HANDLING UNIT DESIGNATOR
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
AS–X	AIR SEPARATOR DESIGNATOR
B–X	BOILER DESIGNATOR
BLDG	BUILDING
BDD	BACKDRAFT DAMPER
BP–X	BOILER PUMP DESIGNATOR
BTUH	BRITISH THERMAL UNIT/HOUR
C/A	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CONT	CONTINUED
C.O./CO	CLEANOUT
CONN	CONNECTION
CP–X	CIRCULATION PUMP DESIGNATOR
CUH–X	CABINET UNIT HEATER DESIGNATOR
CU	COPPER
CW	COLD WATER
CWC	COLD WATER CIRCULATED
DB	DECIBLES
DEG	DEGREE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DT–X	DAY TANK DESIGNATOR
DWG	DRAWING
E/A	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EF–X	EXHAUST FAN DESIGNATOR
EFT	ENTERING FLUID TEMPERATURE
EGT	ENTERING GLYCOL TEMPERATURE
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET–X	EXPANSION TANK DESIGNATOR
EXIST	EXISTING
EXH	EXHAUST
F	FAHRENHEIT
FC	FORWARD CURVE
FCO	FLOOR CLEAN OUT
FCW	FINISHED COLD WATER
FCWC	FINISHED COLD WATER CIRCULATED
FD	FIRE DAMPER
FD–X	FLOOR DRAIN DESIGNATOR
FIN	FINISHED
FLR	FLOOR
FM	FIRE MIST
F.O.	FULL OVAL DUCTWORK
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOT–X	FUEL OIL TANK DESIGNATOR
FPF	FINS PER FOOT
FPM	FEET PER MINUTE
FS	FOOD SERVICE
FT	FEET
FT–X	FINNED TUBE RADIATION DESIGNATOR
FW	FORCED WASTE
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GI–X	GREASE INTERCEPTOR DESIGNATOR
GT–X	GLYCOL TANK DESIGNATOR
GTD	GLYCOL TEMPERATURE DROP
HB–X	HOSE BIBB DESIGNATOR
HC–X	HEATING COIL DESIGNATOR
HD	HEAD
HGR	HEATING GLYCOL RETURN
HGS	HEATING GLYCOL SUPPLY
HOA	HAND–OFF–AUTO
HP	HORSEPOWER
HW	HOT WATER
HWC	HOT WATER CIRCULATED
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LF	LINEAL FEET
LFT	LEAVING FLUID TEMPERATURE
LGT	LEAVING GLYCOL TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
L–X	LIFT STATION DESIGNATOR
MAX	MAXIMUM
MBH	THOUSAND BTUH
MFGR	MANUFACTURER
M/A	MAKEUP AIR
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
NO.	NUMBER
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
O/A	OUTSIDE AIR
OD	OUTSIDE DAMPER
O.D.	OUTSIDE DIAMETER
OSV	OIL SAFETY VALVE
P–X	PLUMBING FIXTURE DESIGNATOR
PD	PRESSURE DROP
PG	PROPYLENE GLYCOL
PH	PHASE
PSI	POUND PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
R/A	RETURN AIR
RF–X	RELIEF FAN DESIGNATOR
RL	RAIN LEADER
RPM	REVOLUTIONS PER MINUTE
RP–X	RADIANT PANEL DESIGNATOR
RW	RAW WATER
S/A	SUPPLY AIR
SP	STATIC PRESSURE
T/A	TRANSFER AIR
TOD	TOP OF DUCT
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TV–X	TEMPERING VALVE DESIGNATOR
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
TYP	TYPICAL
UH–X	UNIT HEATER DESIGNATOR
V	VENT
VAC	VOLT–AC
VAV–X	VARIABLE AIR VOLUME BOX DESIGNATOR
VDC	VOLT–DC
VEL	VELOCITY
VF–X	VENTILATION FAN DESIGNATOR
VTR	VENT THRU ROOF
VFD	VARIABLE FREQUENCY DRIVE
W	WASTE
W/	WITH
W/O	WITHOUT
WC	WATER COLUMN
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WHA	WATER HAMMER ARRESTOR
WH–X	WATER HEATER DESIGNATOR
WPD	WATER PRESSURE DROP

ROOF MOUNTED AIR HANDLER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AREA SERVED	COIL TAG	FAN			TSP / ESP	FILTERS		MOTOR DATA		REMARKS
					TYPE	CFM	ARRANGEMENT	IN. W.C.	SQ. FT.	MFGR./MODEL	HP	POWER	
AHU–1	TRANE	CUSTOM	BUILDING	HC–1/1A	PLENUM	13,000	2x1 FAN ARRAY	2.55/1.5	36	2" MERV 13	10	208/60/3	4" STAINLESS STEEL CONSTRUCTION WITH CLASS A THERMAL BREAK INSULATION, HEAT FOR WALK–IN, WITH INTEGRAL MAINTENANCE VESTIBULE, MIXING BOX W/INSULATED O/A DAMPER, FILTER SECTION, HEATING COIL, FAN ARRAY W/ISOLATION DAMPERS, NEMA PREMIUM EFFICIENCY MOTORS, SINGLE POINT ELECTRICAL CONNECTION, UNIT MOUNTED VFD W/DISCONNECT, PLENUM SECTION W/BELLMOUTH OPENINGS AS INDICATED ON PLANS. PROVIDE WITH SPARE FILTERS, LIGHTS AT EACH SECTION AND GFCI CONVENIENCE OUTLET.

HEATING COIL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SIZE	CFM	AIR P.D. IN. W.C.	FACE VEL. FPM	EAT DEG F	LAT DEG F	GPM	MEDIUM	EGT DEG F	LGT DEG F	WPD FT HD	REMARKS
HC–1	TRANE	D5WB33	36"L x 33"H	6,500	0.18	788	45	65	10.5	50% PG	180	150	0.83	COIL IN STACKED FORMATION IN AHU–1.
HC–1A	TRANE	D5WB33	36"L x 33"H	6,500	0.18	788	45	65	10.5	50% PG	180	150	0.83	COIL IN STACKED FORMATION IN AHU–1.

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Mechanical Legend and Abbreviations

M0.1

BOILER SCHEDULE

			HEATED		GROSS INPUT	GROSS	BURNER			
SYMBOL	MANUFACTURER	MODEL	MEDIUM	FUEL	GPH/MBH	OUTPUT (MBH)	HP	POWER	LABEL	REMARKS
B-1	BURNHAM	MPC-5	50% PG	FO #2	5.5/763	652	3/4	120/60/1	UL/ASME H	3-PASS HIGH EFFICIENCY OIL FIRED BOILER, PROVIDE MULTIPLE BOILER SEQUENCING WITH CIRC. PUMP CONTROL, OUTSIDE AIR RESET.
B-2	BURNHAM	MPC-5	50% PG	FO #2	5.5/763	652	3/4	120/60/1	UL/ASME H	3-PASS HIGH EFFICIENCY OIL FIRED BOILER, PROVIDE MULTIPLE BOILER SEQUENCING WITH CIRC. PUMP CONTROL, OUTSIDE AIR RESET.

HYDROLIC SEPARATOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SIZE	CONNECTION	MATERIAL	FLUID	REMARKS
HS-1	SPIROTHERM	VDX 300	3"	FLANGED	STEEL	50% P.G.	COMBINATION AIR AND DIRT SEPARATOR, 1 FT PRESSURE DROP, 100 GPM, REMOVABLE HEAD FOR CLEANING.

AIR INLET/OUTLET SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	USE	MATERIAL	FINISH	CFM	FACE SIZE (IN.)	NC	REMARKS
(A)	TITUS	TMS	CEILING	SUPPLY	STEEL	WHITE	PER PLANS	24"x24"	<25	LAY-IN DIFFUSER, PROVIDE W/EARTHQUAKE TABS.
(B)	TITUS	50F	EGGCRATE	RETURN	STEEL	WHITE	PER PLANS	24"x24"	<25	LAY-IN GRILLE, PROVIDE W/EARTHQUAKE TABS.
(C)	TITUS	350RL	SIDEWALL	RETURN	STEEL	WHITE	PER PLANS	PER PLANS	<25	SURFACE MOUNT.

EXPANSION TANK SCHEDULE

						TANK VOLUME				
SYMBOL	MANUFACTURER	MODEL	FUNCTION	MEDIUM	MATERIAL	TOTAL (GAL)	ACCEPTANCE (GAL)	DIMENSIONS	LABEL	REMARKS
ET-1	AMTROL	EXTROL SX-120V	BUILDING HYDRONIC LOOP	50% PG	STEEL/BUTYL	68	34	32.5"H X 15" DIA	IAPMO	PRECHARGE TO 12 PSI.
ET-2	AMTROL	THERM-X-TROL ST-12	DOMESTIC WATER	WATER	STEEL/BUTYL	4.4	--	15"H X 11"DIA	IAPMO	PRECHARGE TO INCOMING CITY WATER PRESSURE.

PUMP SCHEDULE

				PUMPED		HEAD		MOTOR DATA		
SYMBOL	MANUFACTURER	MODEL	FUNCTION	MEDIUM	GPM	FEET	RPM	HP	POWER	REMARKS
CP-1	GRUNDFOS	MAGNA3 65-150F	BUILDING HYDRONIC LOOP	50% PG	108	40	VARIES	3/4	120/60/1	INTEGRAL VFD WITH DIFFERENTIAL PRESSURE SENSOR.
CP-1A	GRUNDFOS	MAGNA3 65-150F	BUILDING HYDRONIC LOOP	50% PG	108	40	VARIES	3/4	120/60/1	INTEGRAL VFD WITH DIFFERENTIAL PRESSURE SENSOR.
BP-1	GRUNDFOS	UPS 40-80/4	BOILER PUMP	50% PG	50	10	1590	1/2	120/60/1	THREE SPEED PUMP, SET TO SPEED TWO.
BP-2	GRUNDFOS	UPS 40-80/4	BOILER PUMP	50% PG	50	10	1590	1/2	120/60/1	THREE SPEED PUMP, SET TO SPEED TWO.
CP-2	GRUNDFOS	UP26-99BF	DOMESTIC HOT WATER CIRC	WATER	4	10	--	1/6	120/60/1	FLANGED CONNECTIONS, BRONZE/STAINLESS FOR OPEN SYSTEM.
CP-3	GRUNDFOS	UP26-99BF	DOMESTIC COLD WATER CIRC	WATER	4	10	--	1/6	120/60/1	FLANGED CONNECTIONS, BRONZE/STAINLESS FOR OPEN SYSTEM.

RADIATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL	# ROWS	ELEMENT	FPF	ENCLOSURE	GPM	MEDIUM	EGT DEG F	LGT DEG F	EAT DEG F	BTU/LF	REMARKS
FT-1	RITTLING	IBGVL5	1	4-1/4"X4-1/4", 3/4" COPPER TUBE	48	14 GAUGE, 20" HEIGHT	PER PLANS	50% PG	180	160	65	1240	PROVIDE WITH PENCIL PROOF LINEAR GRILLE.
FT-2	RITTLING	IBG5	1	4-1/4"X4-1/4", 1-1/4" COPPER TUBE	48	NONE	8	50% PG	180	160	65	1280	BARE ELEMENT FINTUBE.

RADIANT PANEL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	EGT	LGT	GPM	PD (FT HD)	BTU/LF	PANEL SIZE	REMARKS
RP-1	ENGINEERED AIR	AIRTEX HEF-2	180	160	PER PLANS	0.9	512	6"W x 4 PANELS	24" WIDE CONTINUOUS PANEL (FOUR 6" PANELS), SUPPLY ALL MOUNTING ACCESSORIES FOR FLUSH MOUNTING IN CEILING, PROVIDE MINIMUM 2" THICK FSK INSULATION OVER PANEL, SECURE TO CLG. NO EXPOSED FIBERGLASS ALLOWED IN PLENUM.

TANK SCHEDULE

						TANK CAPACITY			
SYMBOL	MANUFACTURER	MODEL	FUNCTION	MEDIUM	MATERIAL	(GAL)	DIMENSIONS	LABEL	REMARKS
FOT-1	ANCHORAGE TANK	AT3MULAG	FUEL OIL STORAGE	FO #2	STEEL	3000	76"ø x 14' L	UL 142	DOUBLE WALLED ABOVE GROUND TANK, TRIM PER PLANS AND SPECIFICATIONS.
DT-1	SIMPLEX	SST-25	BOILER ROOM DAY TANK	FO #2	STEEL	25	24"W x 41"H x 16"D	UL 142	25 GALLON, DOUBLE WALL DAY TANK W/INTEGRAL CONTROLS, DUPLEX 2.0 GPM HEAVY DUTY SUPPLY PUMPS (1/3 HP), 4.0 GPM HEAVY DUTY RETURN PUMP (1/3 HP).

UNIT HEATER SCHEDULE

			CAPACITY			EGT	LGT	WPD			MOTOR DATA		
SYMBOL	MANUFACTURER	MODEL	MBH	MEDIUM	GPM	DEG F	DEG F	FT HD	CFM	RPM	HP	POWER	REMARKS
UH-1	BEACON MORRIS	HB-118A	14.2*	50% PG	2.1*	180	160	2.2	500	1500	16W	120/60/1	PROVIDE WITH HIGH SPEED FAN.
CUH-1	BEACON MORRIS	F-1050-02	12.6*	50% PG	1.8*	180	160	0.2	115	875	1/15	120/60/1	FLOOR SURFACE MOUNTED, SINGLE ROW COIL, LOW SPEED FAN, INVERTED FLOW.

*CAPACITY CORRECTED FOR ENTERING GLYCOL TEMPERATURE **GPM CORRECTED FOR GLYCOL

TEMPERING VALVE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FINISH	INLET	OUTLET	TEMPERATURE RANGE F	SET POINT F	FLOW RATE	PRESS. DROP	ACCESSORIES/REMARKS
TV-1	SYMMONS	7-400	BRONZE	3/4"	1"	85-120°F	115°F	10	5	THERMOSTATIC MIXING VALVE & PIPING SYSTEM, DIAL THERMOMETER, ISOLATION, AND CHECKSTOPS. FACTORY ASSEMBLED & TESTED, WALL MOUNTING BRACKET, PROVIDE WITH SPARE MIXING VALVE CARTRIDGE.

EXHAUST HOOD SCHEDULE

					DIMENSIONS	EXHAUST	SP	
SYMBOL	MANUFACTURER	MODEL	SERVICE	CLASS	FEET	CFM	IN. W.C.	REMARKS
EH-1(E)	EXISTING	EXISTING	STEAM KETTLE	TYPE 2	4x4	1500	0.75	REUSE EXISTING EXHAUST HOOD.
FH-1	PER ARCH	PER ARCH	LAB CHEMICALS	--		310	0.1200	FUME HOOD PER SECTION 115300.

REVISIONS

No	Description	Date

STATE OF ALASKA
BRIAN P. PEKAR
ME-11249
12/13/13
REGISTERED PROFESSIONAL ENGINEER

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Mechanical Schedules

M0.2

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MANUFACTURER	MODEL	CW	HW/TW	WASTE	VENT	TRAP	COLOR/FINISH	TRIM/REMARKS
P-1	WATER CLOSET – ADA	AMERICAN STANDARD	CADET – 2467.016	1/2	--	3	2	--	WHITE	FLOOR MOUNT, ADA, PROVIDE ELONGATED SEAT. MOUNT AT ADA HEIGHT.
P-2	LAVATORY – WALL –ADA	AMERICAN STANDARD	LUCERNE – 0355.012	1/2	1/2	1-1/2	1-1/4	1-1/4	WHITE	PROVIDE W/WALL CARRIER, SYMMONS FAUCET MODEL S-250-2-G, GRID DRAIN, & TRAP ARM.
P-2A	FAUCET	SYMMONS	S-250-2-G	1/2	1/2	--	--	--	--	NEW FAUCET FOR EXISTING LAVATORY, PROVIDE WITH GRID DRAIN.
P-3	SINK – JANITOR	FIAT	MSB2424	1/2	1/2	1-1/2	1-1/4	1-1/4	WHITE	PROVIDE W/SYMMONS FAUCET MODEL S-2490.
P-4	EMERGENCY EYE WASH	EXISTING	EXISITNG	--	--	--	--	--	--	PROVIDE WITH NEW TEMPERING VALVE.
P-5	BREAK ROOM SINK	JUST	SL-ADA-2131-A-GR	1/2	1/2	1-1/2	1-1/2	1-1/2	STAINLESS	PROVIDE 6-1/2" DEEP SINK WITH DELTA FAUCET MODEL 27C4244 WITH SWING OPTION, J-35 CUP STRAINER, AND TRAP ARM.
P-6	REFRIGERATOR BOX	GUY GREY	MIB	1/2	--	--	--	--	--	
FD-1	FLOOR DRAIN	JR SMITH	2005-A	--	--	2	1-1/2	2	--	ROUND TOP.
HB-1	HOSE BIBB	WOODFORD	MODEL 25	3/4	--	--	--	--	--	FROSTPROOF, VACUUM BREAKER.

VAV BOX SCHEDULE

						HOT WATER HEATING COIL				EAT	LAT	APD	FLOW	EGT	LGT	WPD	
SYMBOL	MANUFACTURER	MODEL	INLET SIZE	CFM MAX	CFM MIN	SYMBOL	CFM	MBH	ROWS	°F	°F	INWG	GPM	°F	°F	FTWC	REMARKS
VAV-101	TITUS	DESV-10	10"	900	250	HC-101	250	6	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-102	TITUS	DESV-10	10"	1080	325	HC-102	325	10.2	1	65	85	<0.5	1.5	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-103	TITUS	DESV-07	7"	550	165	HC-103	165	6	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-104	TITUS	DESV-04	4"	80	24	HC-104	24	1.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-105	TITUS	DESV-05	5"	300	90	HC-105	90	4	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-106	TITUS	DESV-12	12"	1470	450	HC-106	450	13.5	1	65	85	<0.5	1.5	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-107	TITUS	DESV-04	4"	175	55	HC-107	55	3.2	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-108	TITUS	DESV-05	5"	250	75	HC-108	250	6	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-109	TITUS	DESV-06	6"	460	140	HC-109	140	4.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-110	TITUS	DESV-06	6"	460	140	HC-110	140	4.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-111	TITUS	DESV-06	6"	460	140	HC-110	140	4.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-201	TITUS	DESV-05	5"	260	80	HC-201	80	3.8	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-202	TITUS	DESV-04	4"	135	40	HC-202	40	2.7	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-203	TITUS	DESV-08	8"	600	200	HC-203	200	6.5	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-204	TITUS	DESV-04	4"	180	55	HC-204	55	3.2	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-205	TITUS	DESV-04	4"	180	55	HC-205	55	3.2	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-206	TITUS	DESV-04	4"	180	55	HC-206	55	3.2	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-207	TITUS	DESV-04	4"	180	55	HC-207	55	3.2	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-208	TITUS	DESV-05	5"	320	90	HC-208	90	4	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-209	TITUS	DESV-04	4"	105	35	HC-209	35	2.5	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-210	TITUS	DESV-08	8"	810	245	HC-210	245	6.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-211	TITUS	DESV-05	5"	220	70	HC-211	70	3.6	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-212	TITUS	DESV-06	6"	375	115	HC-212	115	4.5	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-213	TITUS	DESV-06	6"	420	130	HC-213	130	4.7	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-214	TITUS	DESV-07	7"	740	225	HC-214	225	6.7	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-215	TITUS	DESV-06	6"	460	140	HC-215	140	4.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-216	TITUS	DESV-04	4"	150	55	HC-216	55	3.2	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-217	TITUS	DESV-06	6"	440	135	HC-217	135	4.8	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-218	TITUS	DESV-05	5"	280	85	HC-218	85	3.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-219	TITUS	DESV-05	5"	280	85	HC-219	85	3.9	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-220	TITUS	DESV-06	6"	420	130	HC-220	130	4.7	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.
VAV-221	TITUS	DESV-04	4"	140	45	HC-220	45	2.8	1	65	85	<0.5	1	180	150	<5	PROVIDE FIELD FABRICATED MULTI-OUTLET PLENUM.

FAN SCHEDULE

						TSP		MOTOR DATA					
SYMBOL	MANUFACTURER	MODEL	TYPE	SERVICE	CFM	IN W.C.	RPM	HP	POWER	DRIVE	SONES	REMARKS
EF-1	PANASONIC	FV-30VQ3	CEILING	TOILET	210	0.25	990	64W	120/60/1	DIRECT	2	INTERLOCK WITH LIGHT SWITCH
EF-2	PANASONIC	FV-20VQ3	CEILING	TOILET	140	0.25	690	28.4W	120/60/1	DIRECT	<0.3	INTERLOCK WITH LIGHT SWITCH
EF-3	PANASONIC	FV-11VQ5	CEILING	TOILET/JANITOR	70	0.25	830	14.7W	120/60/1	DIRECT	<0.3	INTERLOCK WITH LIGHT SWITCH
EF-4	GREENHECK	SWB-210-3	UTILITY SET	EXHAUST HOOD	1,000	0.75	1736	1/3	120/60/1	BELT	9.70	INSTALL ON EXISTING EXHAUST HOOD FH-1
EF-5	FANAM	CBI200	UTILITY BLOWER	FUME HOOD	310	0.12	--	1/3	120/60/1	DIRECT	--	PROVIDE W/ADJSUTABLE DAMPER, BACKDRAFT DAMPER, RAIN CAP, DISCONNECT SWITCH, COORDINATE WITH FH-1 PRIOR TO ORDERING.
RF-1	GREENHECK	LBP-42-15	RELIEF	RELIEF	13,000	0.25	339	1-1/2	208/60/3	BELT	10.7	BUILDING RELIEF FAN, PROVIDE VFD RATED PREMIUM EFFICIENCY MOTOR AND VFD.
VF-1	GREENHECK	SQ-85-VG	INLINE SUPPLY	BOILER ROOM VENT.	415	0.25	1554	1/6	120/60/1	DIRECT	7.4	PROVIDE W/FACTORY WIRED THERMAL OVERLOAD DISCONNECT, 1" INSULATED FAN HOUSING, TEFC MOTOR, OSHA GUARD/MOTOR COVER. PROVIDE BOX WITH 1" FILTER RACKS.

HOT WATER GENERATOR SCHEDULE

			DOMESTIC HOT WATER						HEATING WATER						
				RECOVERY	CAPACITY	HEATING	EWT	LWT		FLOW	WPD	EGT	LGT		
SYMBOL	MANUFACTURER	MODEL	MEDIUM	GPH	(GAL)	SURFACE	DEG F	DEG F	MEDIUM	GPM	FT HD	DEG F	DEG F	LABEL	REMARKS
HWG-1	AMTROL	BOILERMATE – WH-41ZDW	WATER	170	41	COIL	40	120	50% PG	4	7	180	160	IAPMO	DOUBLE WALL COIL.

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No	Description	Date

STATE OF ALASKA
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Nome State Office Building Remodel

Nome Alaska

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Mechanical Schedules
M0.3

GLYCOL MIX TANK SCHEDULE

SYMBOL	MFGR/MODEL	FUNCTION	MEDIUM	MATERIAL	TANK CAPACITY	DIMENSIONS	POWER	REMARKS
GT-1	AXIOM/SF-100	GLYCOL TANK	50% PG	POLYPROPYLENE	48 GAL	24"ø x 50"	120/60/1	FULLY PACKAGED GLYCOL CHARGING SYSTEM WITH CORD AND PLUG CONNECTION, ALARM PANEL FOR DDC MONITORING.

AIR CONDITIONING UNIT SCHEDULE

			COOLING					POWER			
SYMBOL	MANUFACTURER	MODEL	NOMINAL TON	MBH	EDB	EWB	AMB. TEMP	VOLTS/PH	FLA	WSA	REMARKS
AC-1,2	LIEBERT	MMD18A-P0070	1.5	18.1	80	63	72	208/60/1	14.2	16.9	SELF CONTAINED, CEILING MOUNTED AC UNIT.

SOUND ATTENUATOR SCHEDULE

				ATTENUATION DYNAMIC INSERTION LOSS IN dB OCTAVE BAND								REGENERATION SELF-NOISE POWER LEVELS, dB OCTAVE BAND									
SYMBOL	MFGR/MODEL	VELOCITY (FPM)	PRESSURE DROP (IN WC)	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	DIMENSIONS	REMARKS
SA-1	RUSKIN/ELBLP	<1000	0.13	3	5	13	19	19	19	16	13	61	47	34	34	34	29	24	28	PER PLANS	INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

WHA SCHEDULE

SYMBOL	SIZE	FIXTURE UNITS
WHA-A	1/2"	1-11
WHA-B	3/4"	12-32
WHA-C	1"	33-60
WHA-D	1-1/4"	61-113
WHA-E	1-1/2"	114-154
WHA-F	2"	155-330

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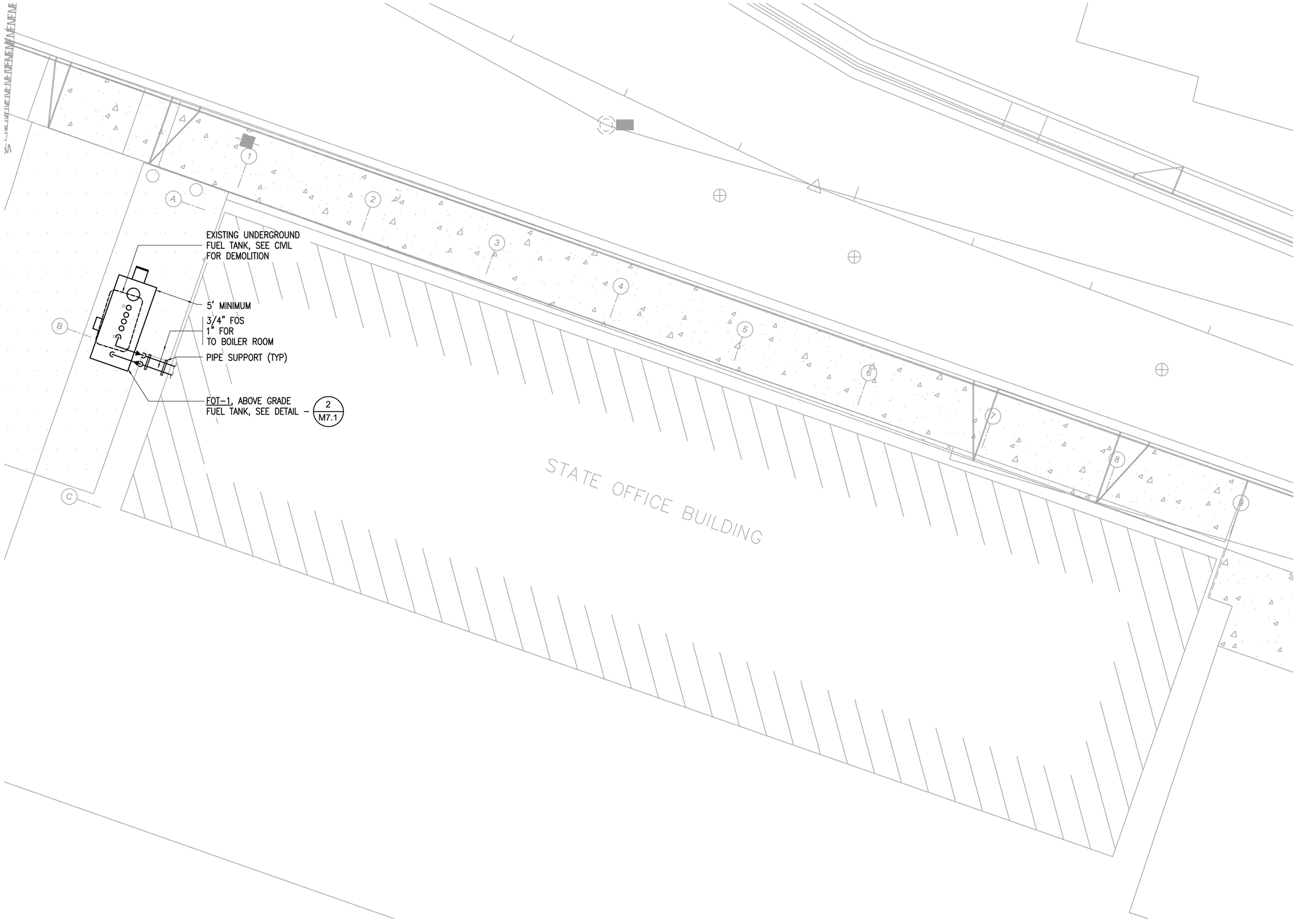
Mechanical Schedules

M0.4



1 MECHANICAL SITE PLAN
1/8"=1'-0"

GENERAL NOTES:

1. BASE BID: EXISTING FUEL TANK AND FUEL PIPING TO BOILER ROOM TO REMAIN.
2. ALTERNATE: DEMOLISH EXISTING FUEL TANK AND ASSOCIATED PIPING. PROVIDE NEW FUEL TANK FOT-1 AND PIPING TO BOILER ROOM.

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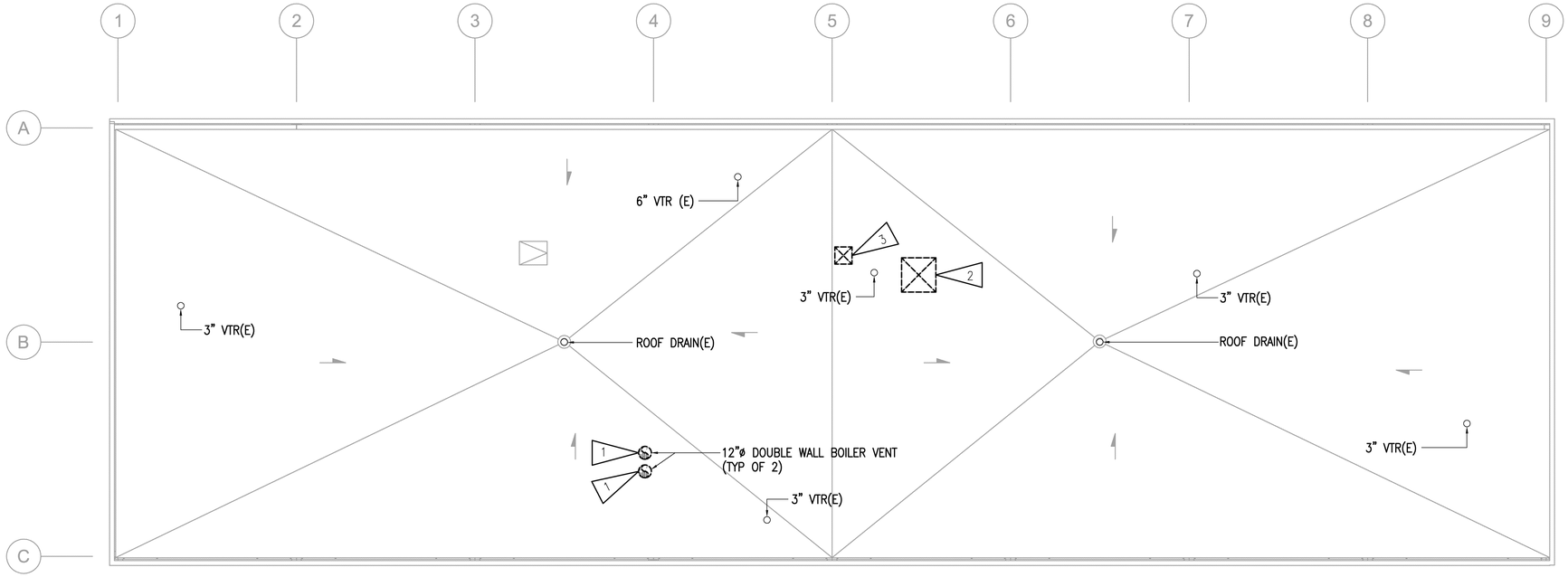
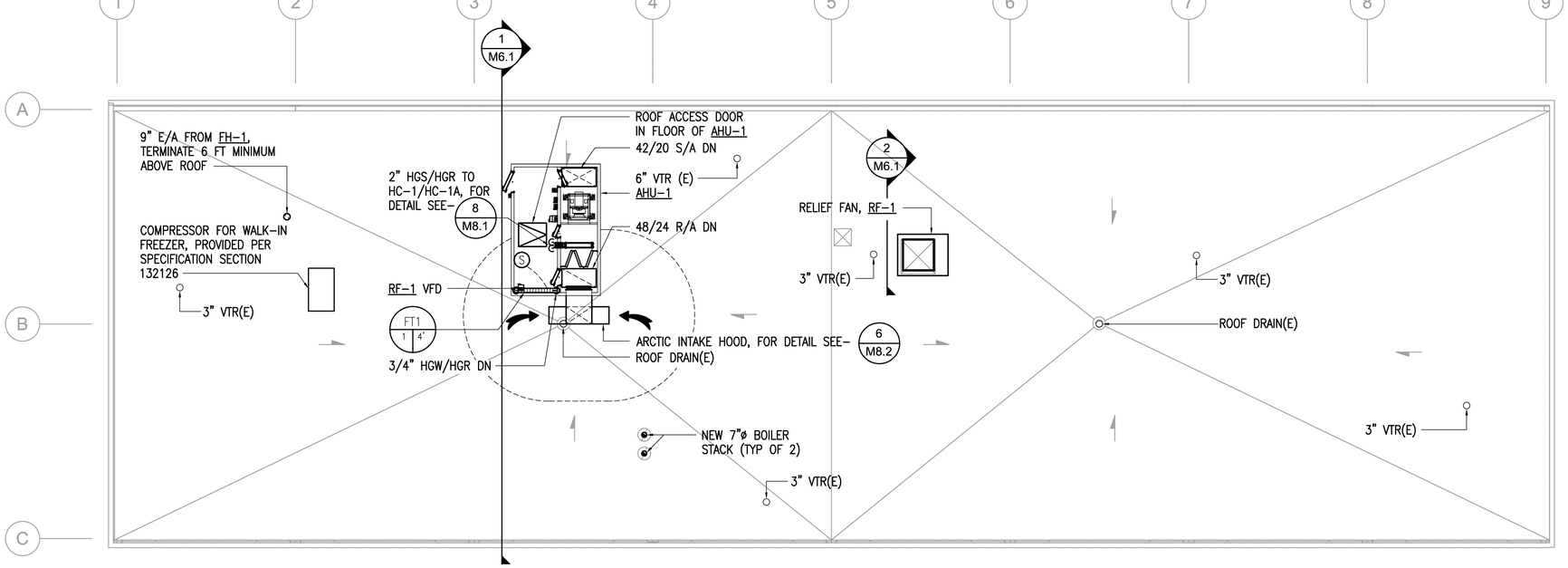
Mechanical Site Plan
M0.5



1 MECHANICAL ROOF DEMOLITION PLAN
1/8"=1'-0"



2 MECHANICAL ROOF REMODEL PLAN
1/8"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
2. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
4. ALL ROOF DRAINS AND VTR WILL REMAIN.
5. WORK INCLUDES THE REMODEL OF THE BUILDING WHILE THE BUILDING IS OCCUPIED. REFER TO ARCHITECTURAL PHASING PLANS AND DIVISION 01 SPECIFICATIONS SUMMARY FOR PROJECT PHASING REQUIREMENTS. ALL SYSTEMS REQUIRED TO OPERATE OCCUPIED AREAS OF THE EXISTING BUILDING SHALL BE FULLY FUNCTIONAL. MAINTAIN OPERATING MECHANICAL SYSTEMS AND PROVIDE TEMPORARY CONNECTIONS TO EXISTING MECHANICAL PIPING, SYSTEMS, AND EQUIPMENT AS NECESSARY TO ALLOW CONTINUED USE OF BUILDING AS REQUIRED BY PROJECT PHASING PLAN.
6. ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORKS TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO DIVISION 02 SPECIFICATIONS FOR SPECIFIC INFORMATION CONCERNING DISTRIBUTING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS, THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

SHEET NOTES:

1. DEMOLISH EXISTING 12"ø DOUBLE WALL BOILER VENTS (TYP OF 2).
2. DEMOLISH EXISTING RELIEF AIR HOOD.
3. DEMOLISH EXISTING EXHAUST AIR HOOD, PATCH AND REPAIR ROOF PER ARCHITECTURAL.

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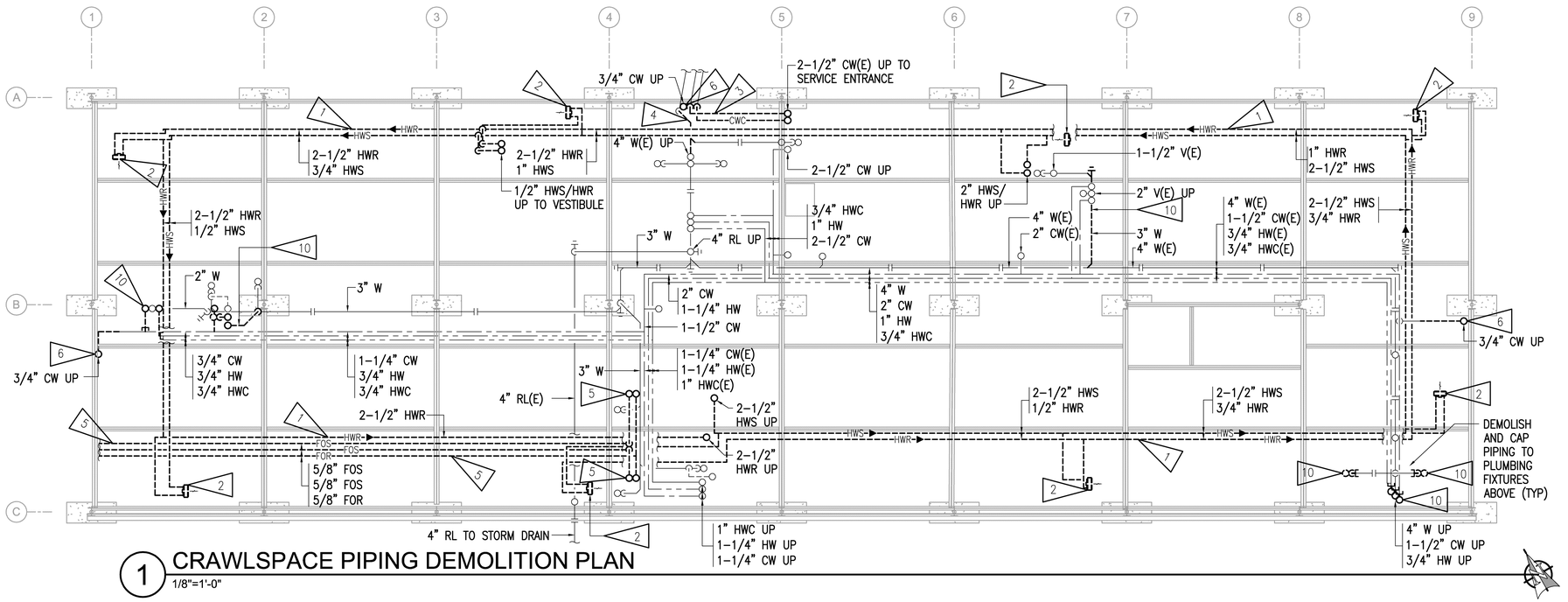
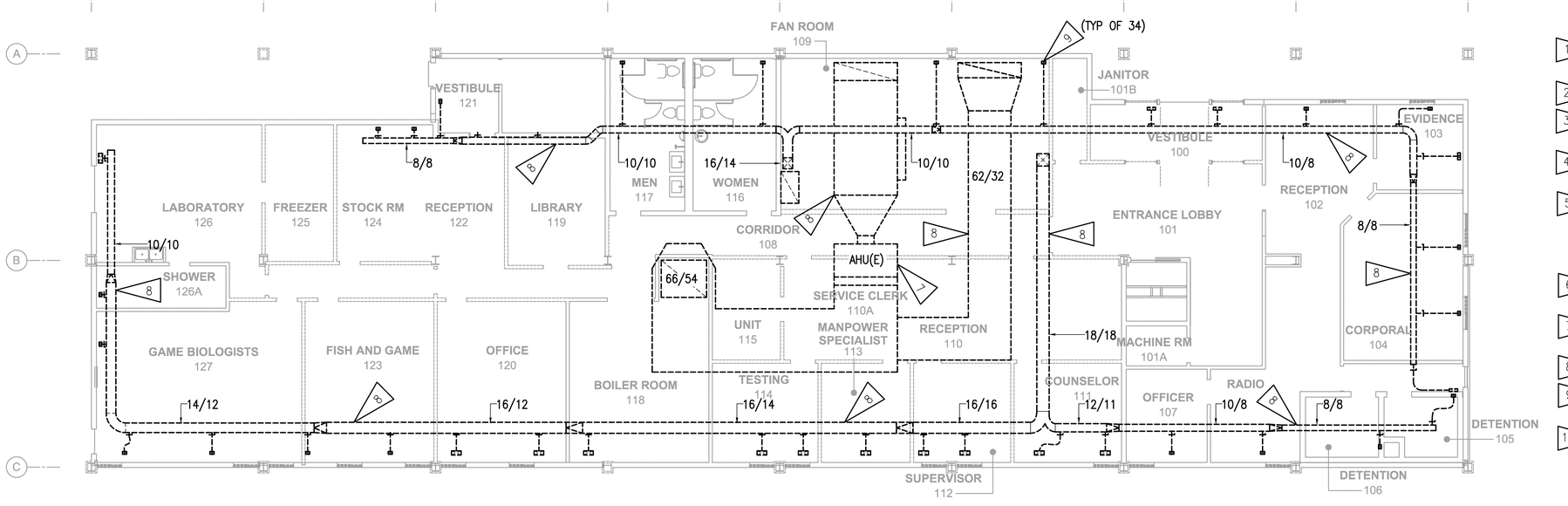
Mechanical Roof Plan
M0.6



1 CRAWLSPACE PIPING DEMOLITION PLAN

1/8"=1'-0"



2 CRAWLSPACE VENTILATION DEMOLITION PLAN

1/8"=1'-0"

GENERAL NOTES:

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2. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
4. ALL DOMESTIC WATER AND WASTE PIPING AND ASSOCIATED APPURTENANCES IN CRAWLSPACE SHALL REMAIN UNLESS OTHERWISE NOTED. EXISTING RAIN LEADER TO REMAIN.
5. DEMOLISH ALL VENTILATION EQUIPMENT, DUCTWORK, AND ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.
6. WORK INCLUDES THE REMODEL OF THE BUILDING WHILE THE BUILDING IS OCCUPIED. REFER TO ARCHITECTURAL PHASING PLANS AND DIVISION 01 SPECIFICATIONS SUMMARY FOR PROJECT PHASING REQUIREMENTS. ALL SYSTEMS REQUIRED TO OPERATE OCCUPIED AREAS OF THE EXISTING BUILDING SHALL BE FULLY FUNCTIONAL. MAINTAIN OPERATING MECHANICAL SYSTEMS AND PROVIDE TEMPORARY CONNECTIONS TO EXISTING MECHANICAL PIPING, SYSTEMS, AND EQUIPMENT AS NECESSARY TO ALLOW CONTINUED USE OF BUILDING AS REQUIRED BY PROJECT PHASING PLAN.
7. ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORKS TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO DIVISION 02 SPECIFICATIONS FOR SPECIFIC INFORMATION CONCERNING DISTRIBUTING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS, THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

SHEET NOTES:

1. DEMOLISH ALL EXISTING HYDRONIC PIPING LOCATED IN CRAWLSPACE.
2. DEMOLISH UNIT HEATER LOCATED IN CRAWLSPACE (TYP OF 8).
3. DEMOLISH EXISTING CW AND CWC HDPE PIPING IN CRAWLSPACE. DOMESTIC CW SERVICE LOCATED IN FAN ROOM ABOVE TO REMAIN.
4. DEMOLISH WASTE PIPING TO THE EXTENT SHOWN NECESSARY FOR INSTALLATION OF BACKWATER VALVE, SEE REMODEL PLANS.
5. BASE BID: EXISTING FUEL OIL PIPING TO BOILER ROOM TO REMAIN. DEMOLISH BRANCH PIPING TO EACH BOILER FOR DAY TANK INSTALLATION.
   ALTERNATE: DEMOLISH ALL FUEL OIL PIPING AND ASSOCIATED APPURTENANCES.
6. DEMOLISH CW PIPING TO HOSE BIBB TO THE EXTENT NECESSARY FOR REMODEL WORK.
7. DEMOLISH EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED APPURTENANCES.
8. DEMOLISH ALL UNDER FLOOR DUCTWORK
9. DEMOLISH DUCT AND ASSOCIATED GRILLE ON FLOOR ABOVE. PATCH AND REPAIR FLOOR PENETRATIONS PER ARCHITECTURAL
10. DEMOLISH DOMESTIC HOT/COLD WATER AND WASTE/VENT PIPING SERVING FIXTURE ON SECOND FLOOR.

REVISIONS

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Nome State Office Building Remodel

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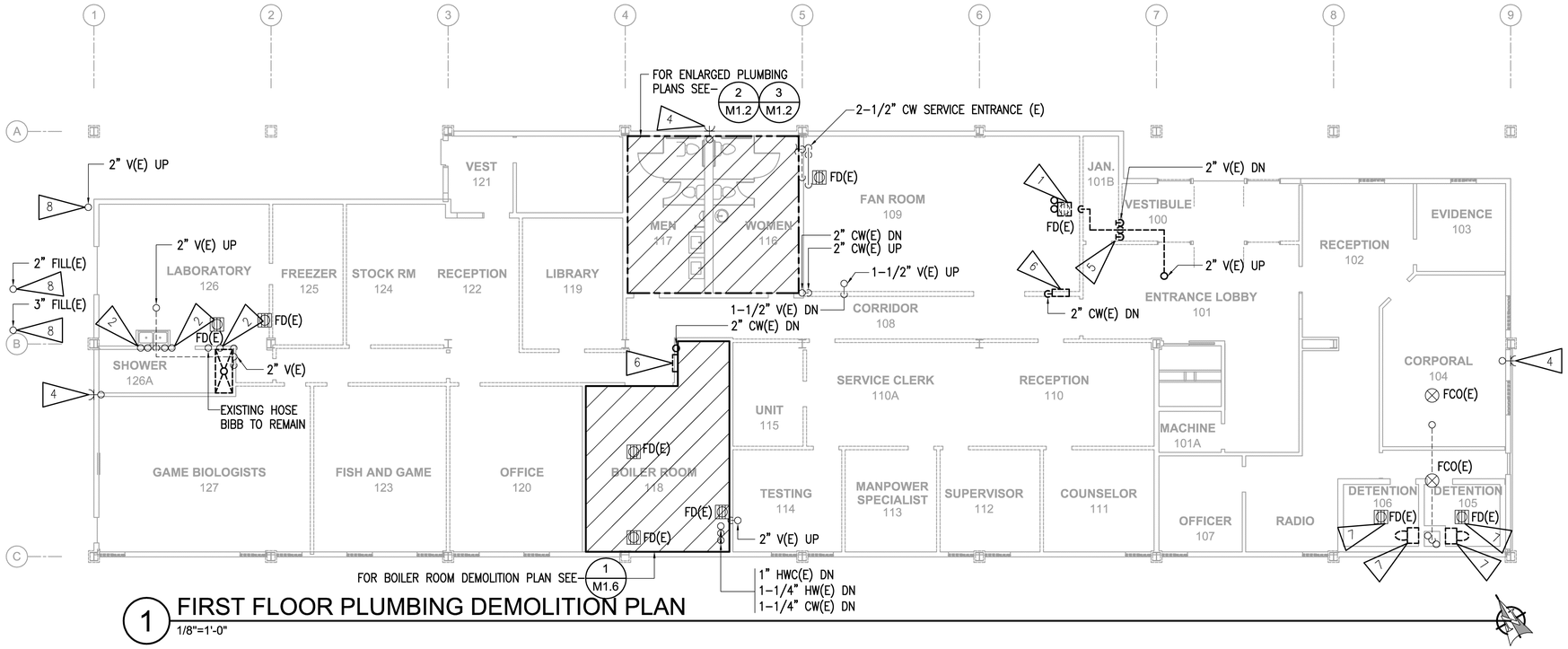
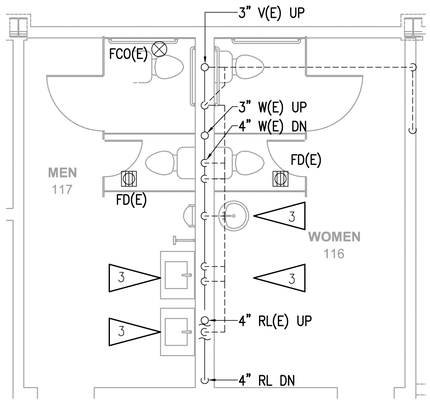
Mechanical Demolition Plan

M1.1



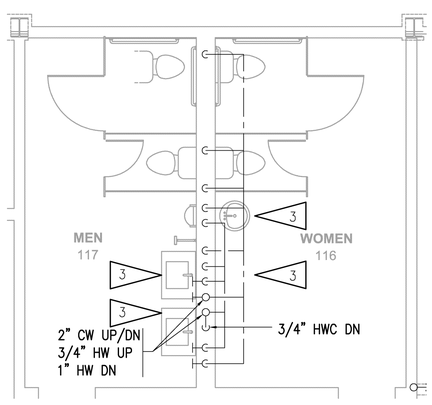
1 FIRST FLOOR PLUMBING DEMOLITION PLAN

1/8"=1'-0"



2 ENLARGED WASTE AND VENT DEMOLITION PLAN

1/4"=1'-0"



3 ENLARGED DOMESTIC WATER DEMOLITION PLAN

1/4"=1'-0"

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3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
4. ALL DOMESTIC WATER AND WASTE PIPING AND ASSOCIATED APPURTENANCES IN CRAWLSPACE SHALL REMAIN UNLESS OTHERWISE NOTED. EXISTING RAIN LEADER TO REMAIN.
5. DEMOLISH ALL VENTILATION EQUIPMENT, DUCTWORK, AND ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.
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SHEET NOTES:

1. DEMOLISH FLOOR DRAIN. DEMOLISH PIPING TO MAINS IN CRAWLSPACE AND CAP.
2. DEMOLISH SHOWER, CAP AND SEAL ALL PIPING AND PLUMBING BACK TO MAINS IN CRAWLSPACE. PATCH FLOOR AND WALLS PER ARCHITECTURAL.
3. DEMOLISH FAUCETS. EXISTING LAVATORY TO REMAIN.
4. DEMOLISH EXTERIOR HOSE BIBB.
5. DEMOLISH MOP SINK. DEMOLISH PIPING TO MAINS IN CRAWLSPACE AND CAP.
6. DEMOLISH HOSE CABINET AND ASSOCIATED PIPING.
7. DEMOLISH EXISTING STAINLESS STEEL SECURITY TOILET, LAVATORY, AND FLOOR DRAIN. DEMOLISH PIPING TO MAINS IN CRAWLSPACE AND CAP.
8. ADDITIVE ALTERNATE #1: DEMOLISH EXISTING UNDERGROUND FUEL TANK, FILL PIPE, VENT PIPE, AND ALL ASSOCIATED APPURTENANCES. COORDINATE DEMOLITION WITH CIVIL AND STRUCTURAL.

REVISIONS

No	Description	Date

STATE OF ALASKA — BRIAN P. PEKAR — ME-11249 — 12/13/13 — REGISTERED PROFESSIONAL ENGINEER

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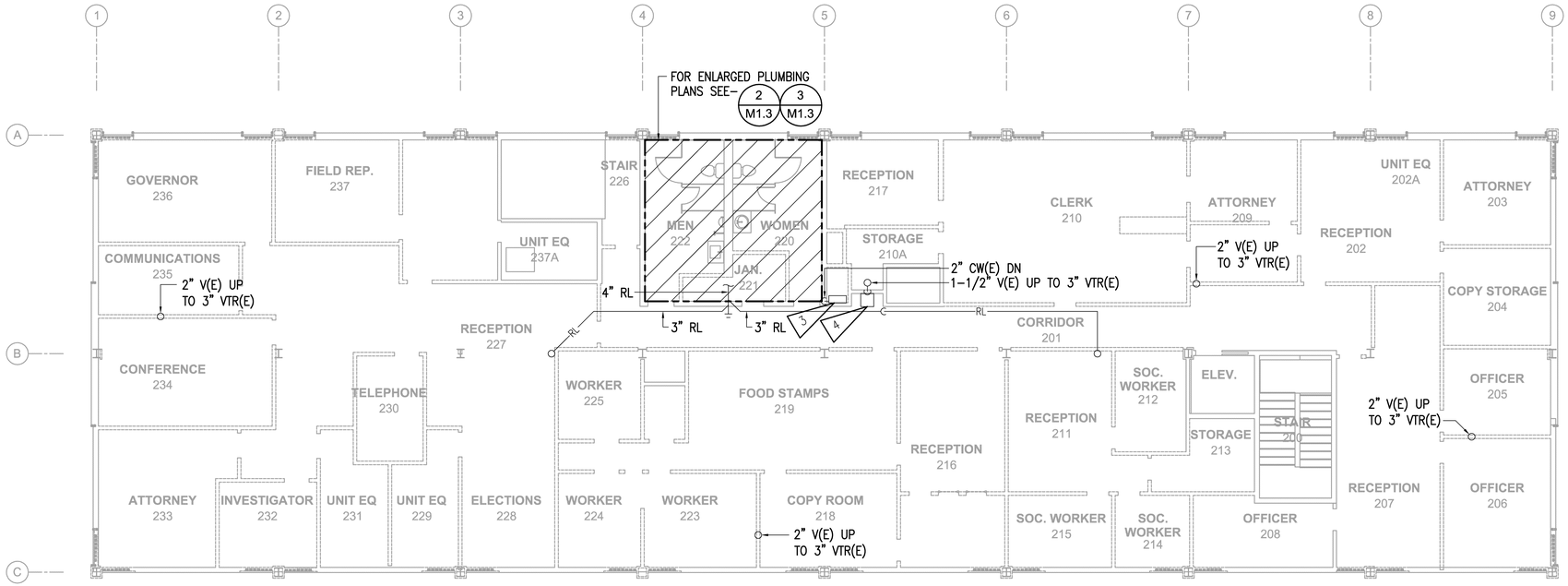
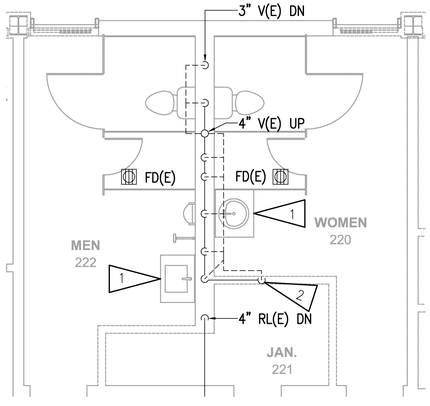
Mechanical Demolition Plan

M1.2



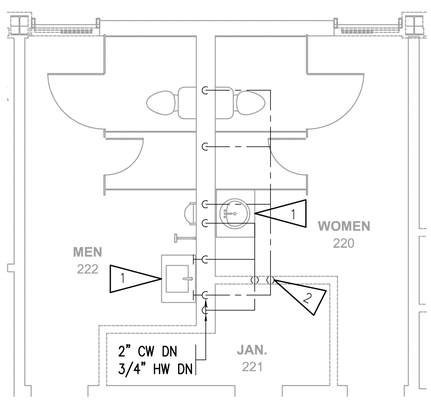
1 SECOND FLOOR PLUMBING DEMOLITION PLAN

1/8"=1'-0"



2 ENLARGED WASTE AND VENT DEMOLITION PLAN

1/4"=1'-0"



3 ENLARGED DOMESTIC WATER DEMOLITION PLAN

1/4"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
2. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
4. ALL DOMESTIC WATER AND WASTE PIPING AND ASSOCIATED APPURTENANCES IN CRAWLSPACE SHALL REMAIN UNLESS OTHERWISE NOTED. EXISTING RAIN LEADER TO REMAIN.
5. DEMOLISH ALL VENTILATION EQUIPMENT, DUCTWORK, AND ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.
6. WORK INCLUDES THE REMODEL OF THE BUILDING WHILE THE BUILDING IS OCCUPIED. REFER TO ARCHITECTURAL PHASING PLANS AND DIVISION 01 SPECIFICATIONS SUMMARY FOR PROJECT PHASING REQUIREMENTS. ALL SYSTEMS REQUIRED TO OPERATE OCCUPIED AREAS OF THE EXISTING BUILDING SHALL BE FULLY FUNCTIONAL. MAINTAIN OPERATING MECHANICAL SYSTEMS AND PROVIDE TEMPORARY CONNECTIONS TO EXISTING MECHANICAL PIPING, SYSTEMS, AND EQUIPMENT AS NECESSARY TO ALLOW CONTINUED USE OF BUILDING AS REQUIRED BY PROJECT PHASING PLAN.
7. ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORKS TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO DIVISION 02 SPECIFICATIONS FOR SPECIFIC INFORMATION CONCERNING DISTRIBUTING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS, THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

SHEET NOTES:

1. DEMOLISH FAUCETS. EXISTING LAVATORY TO REMAIN.
2. DEMOLISH MOP SINK.
3. DEMOLISH HOSE CABINET AND ASSOCIATED PIPING.
4. EXISTING DRINKING FOUNTAIN TO REMAIN.

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

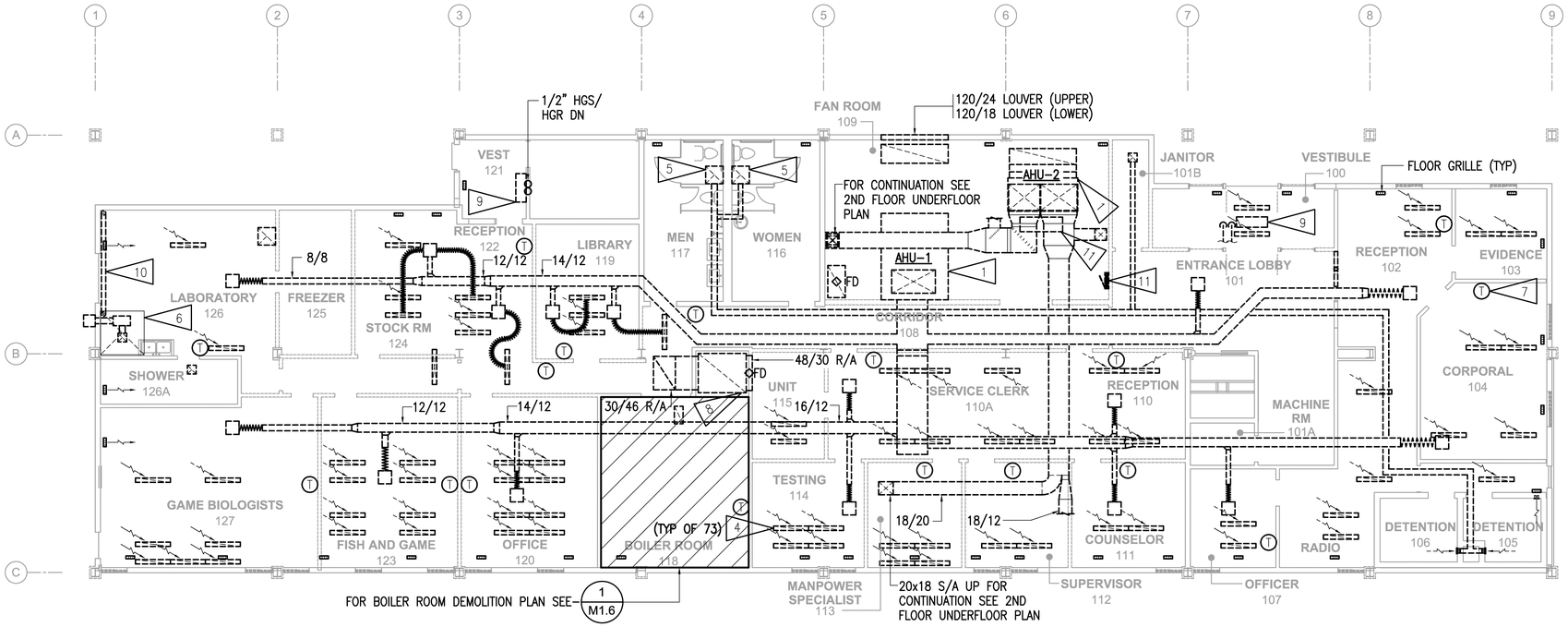
Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

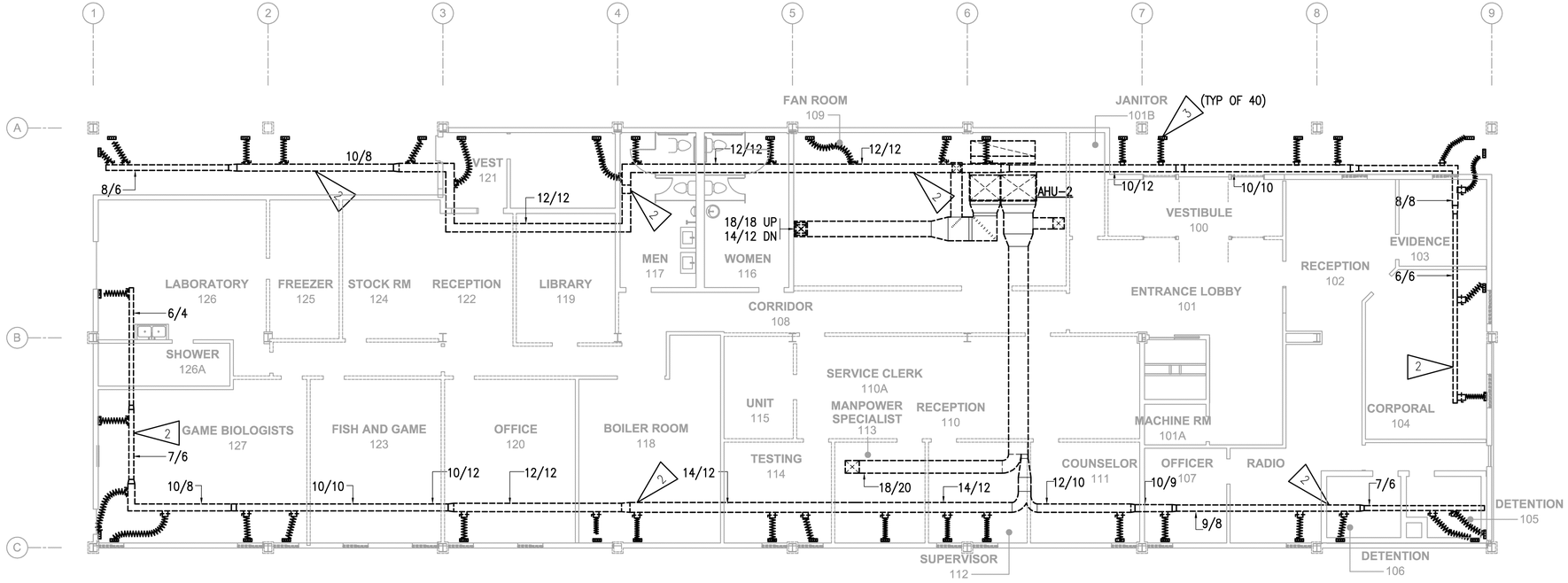
Mechanical Demolition Plan

M1.3



1 FIRST FLOOR VENTILATION DEMOLITION PLAN

1/8"=1'-0"



2 FIRST FLOOR VENTILATION DEMOLITION PLAN (DUCTWORK SERVING SECOND FLOOR)

1/8"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
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3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
4. ALL DOMESTIC WATER AND WASTE PIPING AND ASSOCIATED APPURTENANCES IN CRAWLSPACE SHALL REMAIN UNLESS OTHERWISE NOTED. EXISTING RAIN LEADER TO REMAIN.
5. DEMOLISH ALL VENTILATION EQUIPMENT, DUCTWORK, AND ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.
6. WORK INCLUDES THE REMODEL OF THE BUILDING WHILE THE BUILDING IS OCCUPIED. REFER TO ARCHITECTURAL PHASING PLANS AND DIVISION 01 SPECIFICATIONS SUMMARY FOR PROJECT PHASING REQUIREMENTS. ALL SYSTEMS REQUIRED TO OPERATE OCCUPIED AREAS OF THE EXISTING BUILDING SHALL BE FULLY FUNCTIONAL. MAINTAIN OPERATING MECHANICAL SYSTEMS AND PROVIDE TEMPORARY CONNECTIONS TO EXISTING MECHANICAL PIPING, SYSTEMS, AND EQUIPMENT AS NECESSARY TO ALLOW CONTINUED USE OF BUILDING AS REQUIRED BY PROJECT PHASING PLAN.
7. ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORKS TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO DIVISION 02 SPECIFICATIONS FOR SPECIFIC INFORMATION CONCERNING DISTRIBUTING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS, THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

SHEET NOTES:

1. DEMOLISH EXISTING AIR HANDLING UNIT, DUCTWORK, GRILLES, AND ALL ASSOCIATED APPURTENANCES.
2. DEMOLISH ALL UNDER FLOOR DUCTWORK.
3. DEMOLISH DUCT AND ASSOCIATED GRILLE ON FLOOR ABOVE. PATCH AND REPAIR FLOOR PENETRATIONS PER ARCHITECTURAL.
4. DEMOLISH ALL RETURN AIR GRILLES.
5. DEMOLISH EXISTING EXHAUST FANS.
6. DEMOLISH EXHAUST FAN, DUCTWORK, AND ALL ASSOCIATED APPURTENANCES. 4' X 4' EXHAUST HOOD TO REMAIN.
7. DEMOLISH EXISTING THERMOSTAT (TYP OF 17).
8. DEMOLISH EXISTING R/A DUCT AND FD.
9. DEMOLISH CABINET UNIT HEATER, PIPING, AND ALL ASSOCIATED APPURTENANCES.
10. DEMOLISH EXISTING FUME HOOD DUCTWORK AND EXHAUST FAN.
11. DEMOLISH EXISTING AIR COMPRESSOR AND EXISTING PNEUMATIC CONTROL SYSTEM.

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome Alaska

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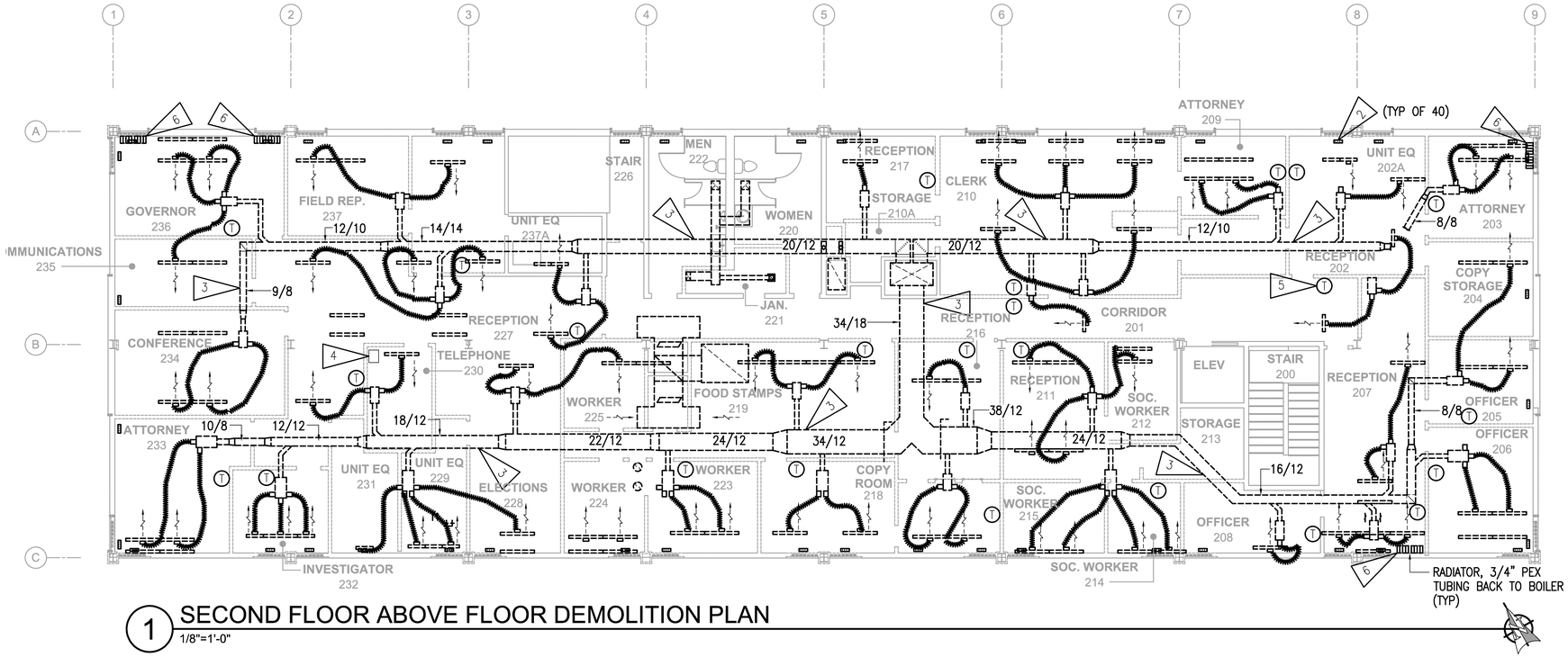
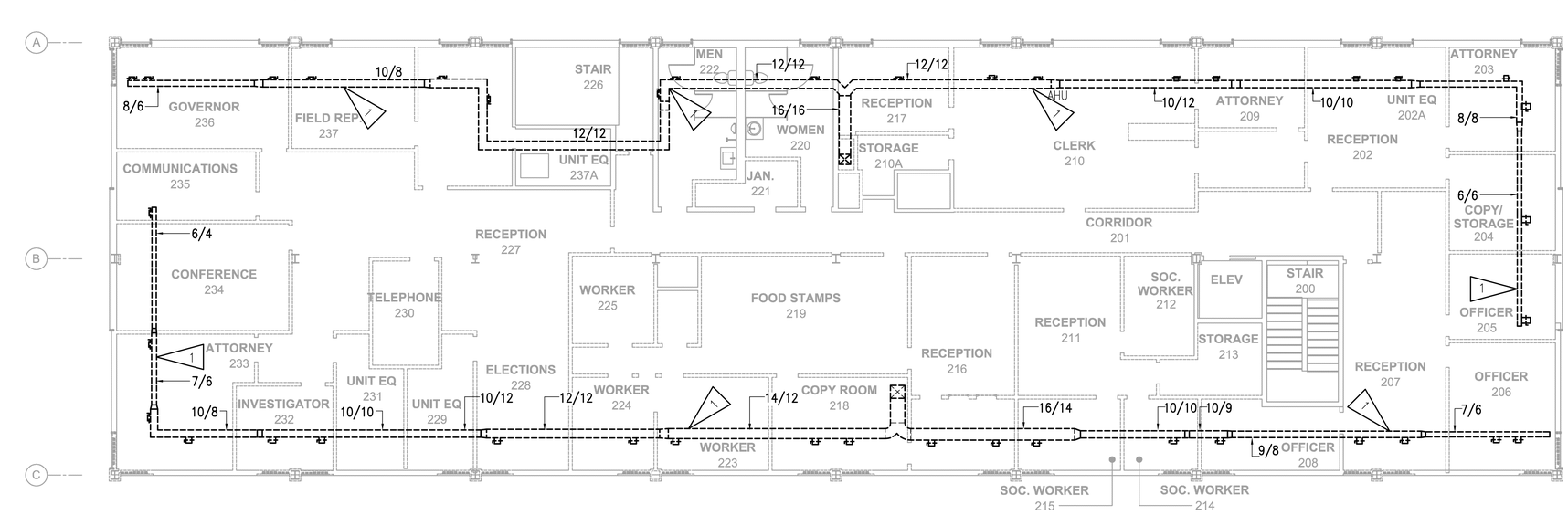
Mechanical Demolition Plan

M1.4



1 SECOND FLOOR ABOVE FLOOR DEMOLITION PLAN

1/8"=1'-0"



2 SECOND FLOOR ABOVE CEILING PERIMETER DUCTWORK DEMOLITION PLAN

1/8"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
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3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
4. ALL DOMESTIC WATER AND WASTE PIPING AND ASSOCIATED APPURTENANCES IN CRAWLSPACE SHALL REMAIN UNLESS OTHERWISE NOTED. EXISTING RAIN LEADER TO REMAIN.
5. DEMOLISH ALL VENTILATION EQUIPMENT, DUCTWORK, AND ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.
6. WORK INCLUDES THE REMODEL OF THE BUILDING WHILE THE BUILDING IS OCCUPIED. REFER TO ARCHITECTURAL PHASING PLANS AND DIVISION 01 SPECIFICATIONS SUMMARY FOR PROJECT PHASING REQUIREMENTS. ALL SYSTEMS REQUIRED TO OPERATE OCCUPIED AREAS OF THE EXISTING BUILDING SHALL BE FULLY FUNCTIONAL. MAINTAIN OPERATING MECHANICAL SYSTEMS AND PROVIDE TEMPORARY CONNECTIONS TO EXISTING MECHANICAL PIPING, SYSTEMS, AND EQUIPMENT AS NECESSARY TO ALLOW CONTINUED USE OF BUILDING AS REQUIRED BY PROJECT PHASING PLAN.
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SHEET NOTES:

1. DEMOLISH ALL UNDER FLOOR DUCTWORK
2. DEMOLISH FLOOR GRILLE, PATCH AND REPAIR FLOOR PENETRATIONS PER ARCHITECTURAL
3. DEMOLISH ABOVE FLOOR DUCTWORK, DIFFUSERS, FLEX DUCT, VAV BOXES AND ANY OTHER ASSOCIATED APPURTENANCES
4. DEMOLISH FLOOR MOUNTED AIR CONDITIONING UNIT.
5. DEMOLISH EXISTING THERMOSTAT (TYP OF 24)
6. DEMOLISH RADIATOR AND ASSOCIATED PIPING.

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome Alaska

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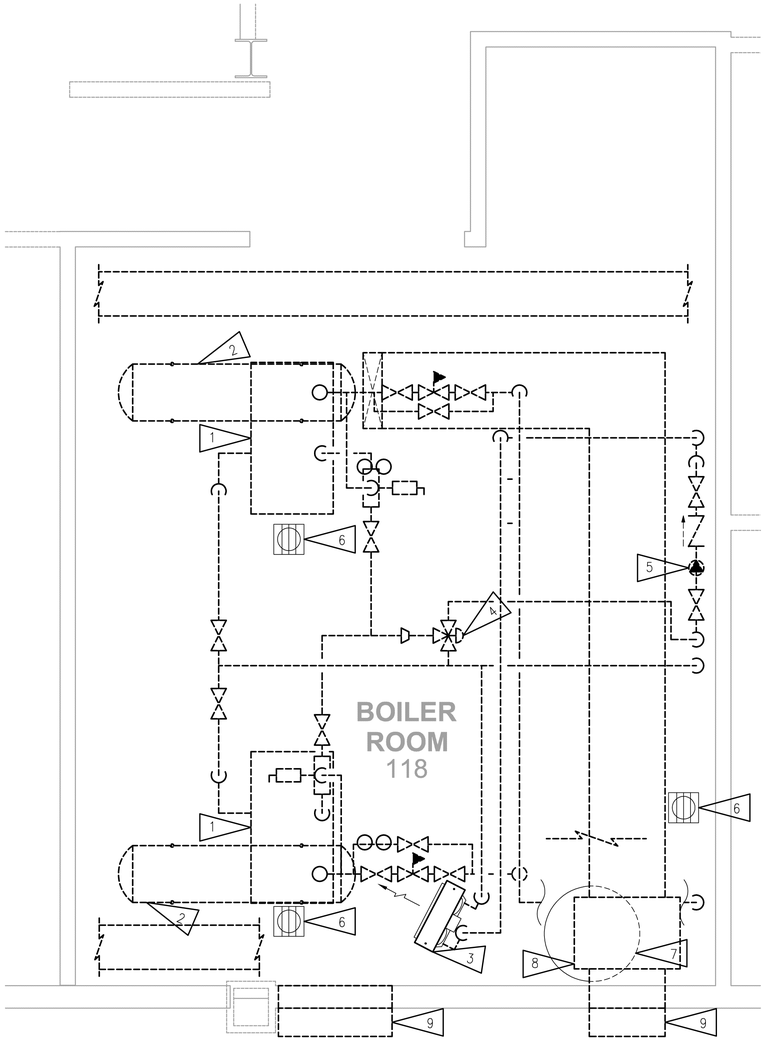
Mechanical Demolition Plan

M1.5



1 BOILER ROOM DEMOLITION PLAN
1/2"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON–DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE–IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
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4. ALL DOMESTIC WATER AND WASTE PIPING AND ASSOCIATED APPURTENANCES IN CRAWLSPACE SHALL REMAIN UNLESS OTHERWISE NOTED. EXISTING RAIN LEADER TO REMAIN.
5. DEMOLISH ALL HEATING EQUIPMENT, PIPING, VENTILATION EQUIPMENT, DUCTWORK, AND ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.
6. WORK INCLUDES THE REMODEL OF THE BUILDING WHILE THE BUILDING IS OCCUPIED. REFER TO ARCHITECTURAL PHASING PLANS AND DIVISION 01 SPECIFICATIONS SUMMARY FOR PROJECT PHASING REQUIREMENTS. ALL SYSTEMS REQUIRED TO OPERATE OCCUPIED AREAS OF THE EXISTING BUILDING SHALL BE FULLY FUNCTIONAL. MAINTAIN OPERATING MECHANICAL SYSTEMS AND PROVIDE TEMPORARY CONNECTIONS TO EXISTING MECHANICAL PIPING, SYSTEMS, AND EQUIPMENT AS NECESSARY TO ALLOW CONTINUED USE OF BUILDING AS REQUIRED BY PROJECT PHASING PLAN.
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SHEET NOTES:

1. DEMOLISH EXISTING BOILERS, HYDRONIC PIPING, AND ALL ASSOCIATED APPURTENANCES.
2. DEMOLISH EXISTING EXPANSION TANKS.
3. DEMOLISH EXISTING UNIT HEATER.
4. DEMOLISH EXISTING 3–WAY VALVE.
5. DEMOLISH EXISTING CIRCULATION PUMPS
6. EXISTING FLOOR DRAIN TO REMAIN.
7. EXISTING ELECTRIC WATER HEATER TO REMAIN.
8. DEMOLISH EXISTING VENTILATION FAN.
9. DEMOLISH C/A AND VENTILATION HOODS.

REVISIONS

No	Description	Date

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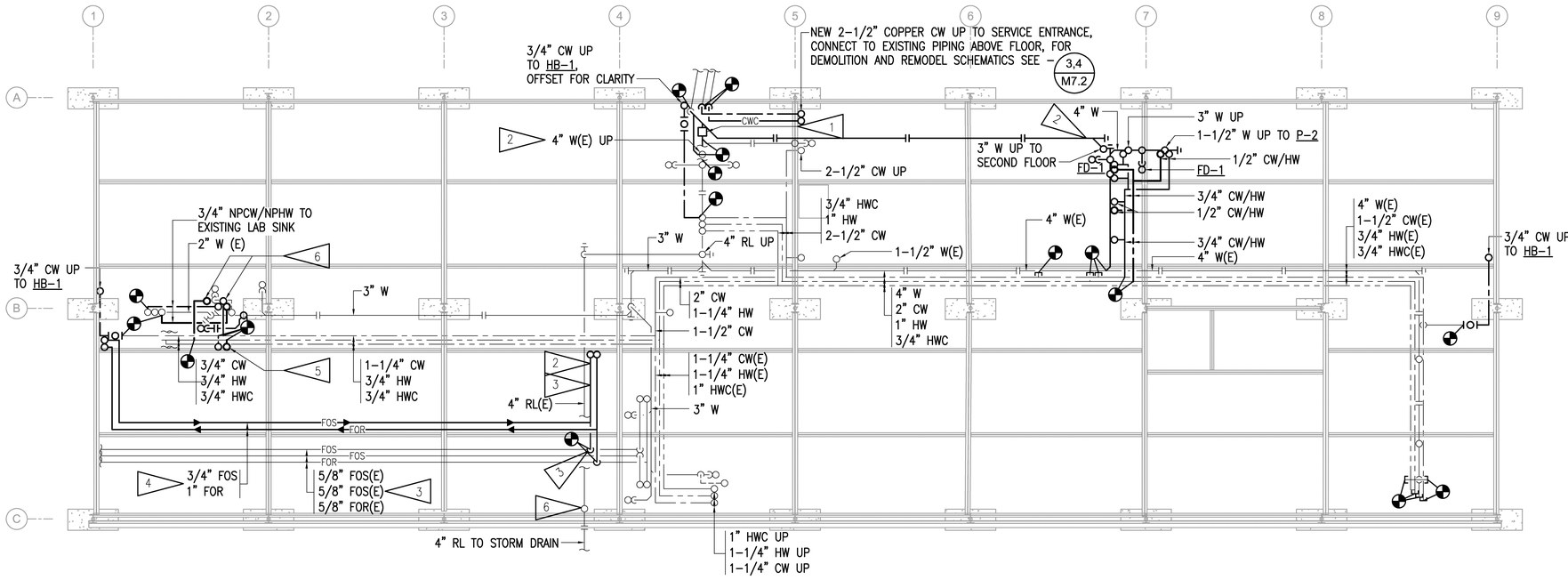
Mechanical Demolition Plan
M1.6



1 CRAWLSPACE PLUMBING REMODEL PLAN

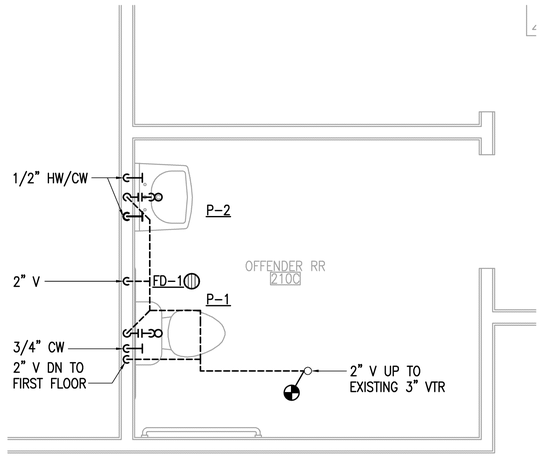
1/8"=1'-0"

SHEET NOTES:

1. INSTALL NEW BACKWATER VALVE IN EXISTING 4" W. CLEANOUTS FOR DRAINS THAT PASS THROUGH THE BACKWATER VALVE SHALL BE IDENTIFIED WITH THE LABEL "BACKWATER VALVE DOWNSTREAM" PER 2009 UPC 710.1.
2. ALL SECOND FLOOR WASTE PIPING SHALL CONNECT TO BUILDING SEWER IN CRAWLSPACE DOWNSTREAM OF THE NEW BACKWATER VALVE PER 2009 UPC 710.1. RE-ROUTE EXISTING 4" W LINE SERVING SECOND FLOOR.
3. BASE BID: EXISTING FUEL PIPING TO REMAIN. CONNECT TO NEW FUEL PIPING FROM BOILER ROOM DAY TANK TO EXISTING PIPING IN CRAWLSPACE.
4. ALTERNATE BID: PROVIDE 3/4" FOS, 1" FOR FROM FUEL TANK TO BOILER ROOM.
5. NEW 3/4" CW/HW UP TO LAB BACKFLOW PREVENTERS.
6. PROVIDE DDC CONTROL FOR EXISTING HEAT TRACE IN 4" RL TO STORM DRAIN.

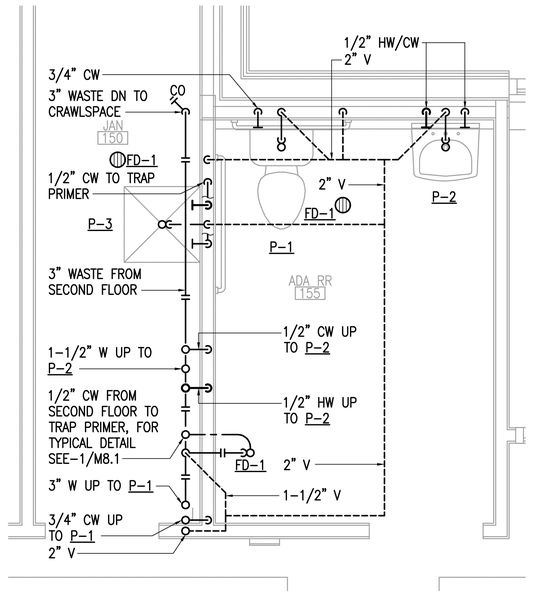
REVISIONS

No	Description	Date



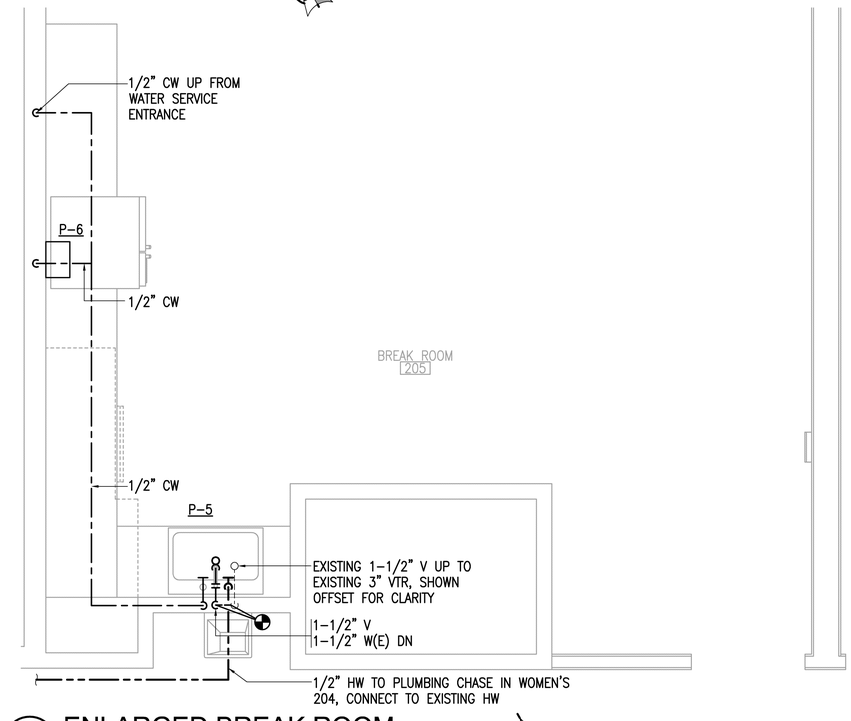
2 ENLARGED OFFENDER RESTROOM

1/2"=1'0"



3 ENLARGED ADA RESTROOM

1/2"=1'0"



4 ENLARGED BREAK ROOM

1/2"=1'0"

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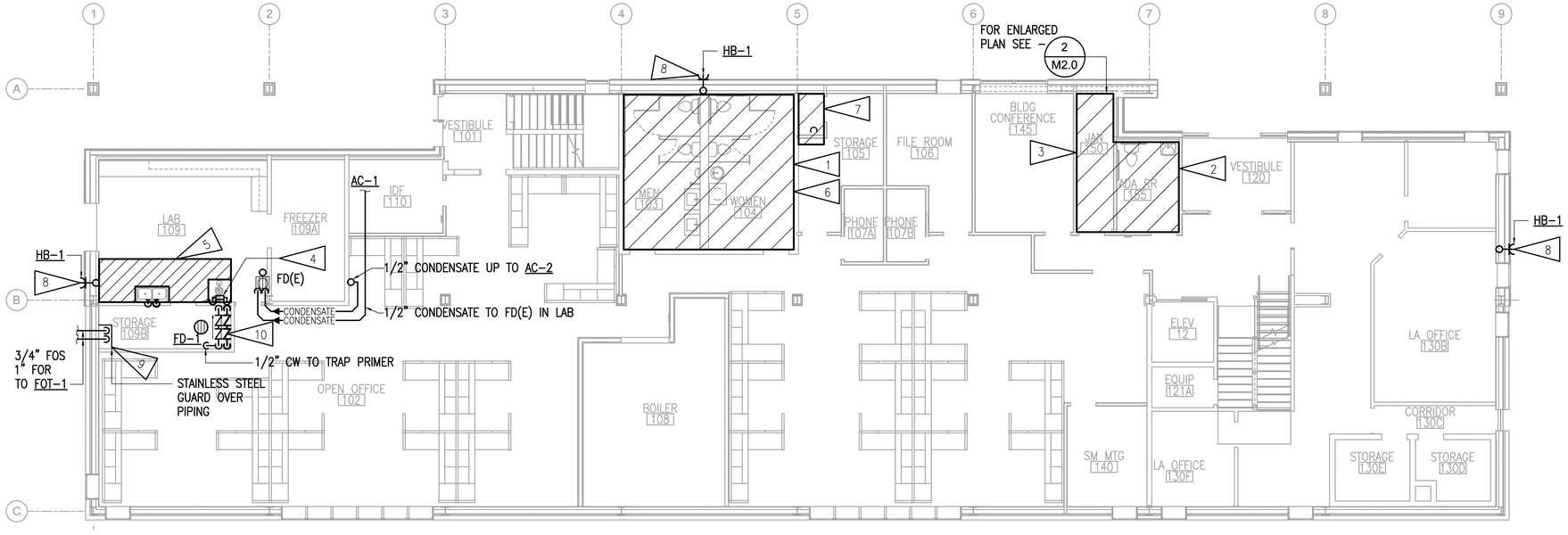
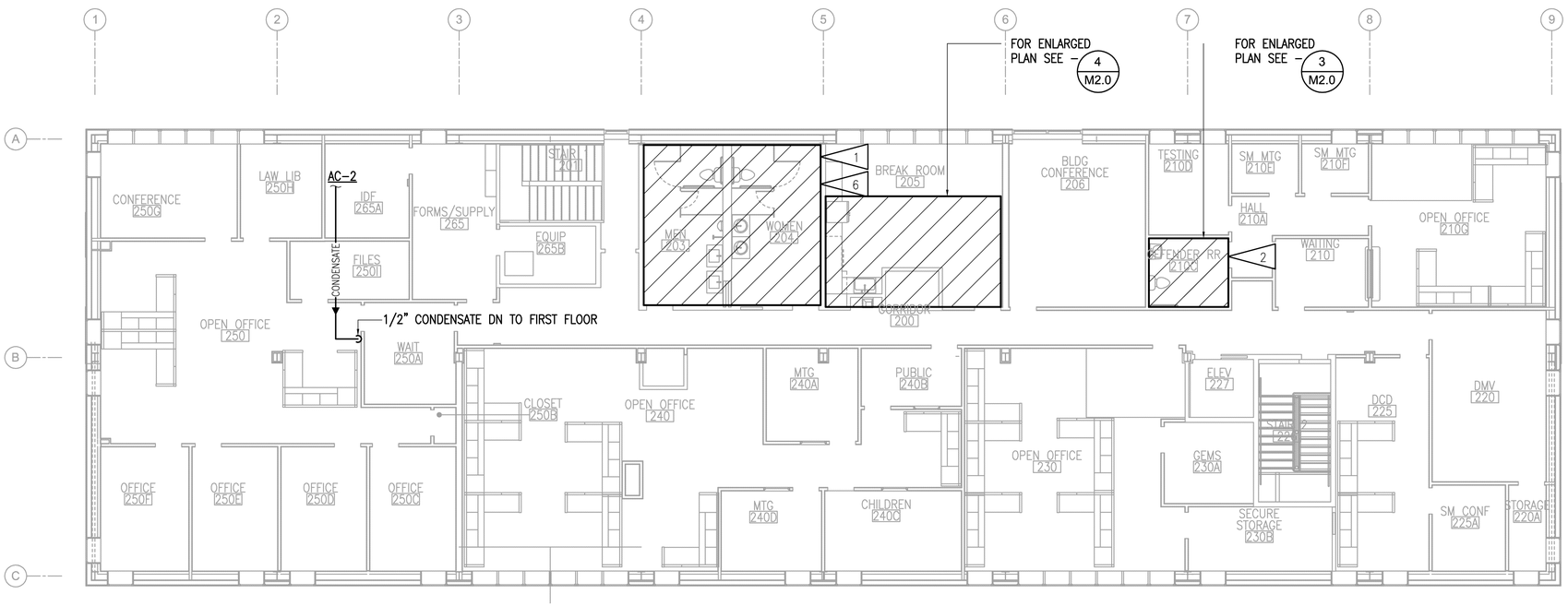
Plumbing Remodel Plan

M2.0



1 FIRST FLOOR PLUMBING REMODEL PLAN

1/8"=1'-0"



2 SECOND FLOOR PLUMBING REMODEL PLAN

1/8"=1'-0"

SHEET NOTES:

1. EXISTING DOMESTIC WATER, SANITARY WASTE, AND VENT PLUMBING IN RESTROOM TO REMAIN.
2. INSTALL NEW ADA TOILET, FLOOR DRAIN, AND LAVATORY IN RESTROOM.
3. INSTALL NEW MOP SINK WITH VANDAL RESISTANT FAUCET AND FLOOR DRAIN IN JANITOR CLOSET.
4. PROVIDE TEMPERING VALVE, TV-1, FOR EXISTING EYEWASH IN LAB AREA. SERVED BY NEW 1" HW/CW FROM CRAWLSPACE, SEE DETAIL-3/M8.1.
5. EXISTING DOMESTIC WATER, SANITARY WASTE, AND VENT PLUMBING IN LAB AREA TO REMAIN. CONNECT NEW 3/4" NPCW/NPHW FROM CRAWLSPACE TO EXISTING LAB SINK.
6. INSTALL NEW FAUCETS IN RESTROOMS.
7. EXISTING DOMESTIC CW SERVICE TO REMAIN. INSTALL BACKWATER ALARM PANEL ON WALL ADJACENT TO WATER SERVICE. CONNECT ALARM PANEL TO BACKWATER VALVE IN CRAWLSPACE.
8. ROUTE 3/4" CW TO EXISTING CW PIPING DOWN TO THE CRAWLSPACE IN WALL INSIDE OF VAPOR BARRIER, SEE DETAIL-2/M8.1.
9. ALTERNATE BID: PROVIDE 3/4" FOS, 1" FOR FROM FUEL TANK TO BOILER ROOM.
10. PROVIDE NEW NPHW/NPCW BACKFLOW PREVENTERS WITH INTERMEDIATE ATMOSPHERIC VENTS. ROUTE VENTS TO FLOOR DRAIN. 3/4" NPCW/NPHW ROUTED IN CRAWLSPACE TO LAB SINK, SEE DETAIL-4/M8.1.

REVISIONS

No	Description	Date

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12/13/13
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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

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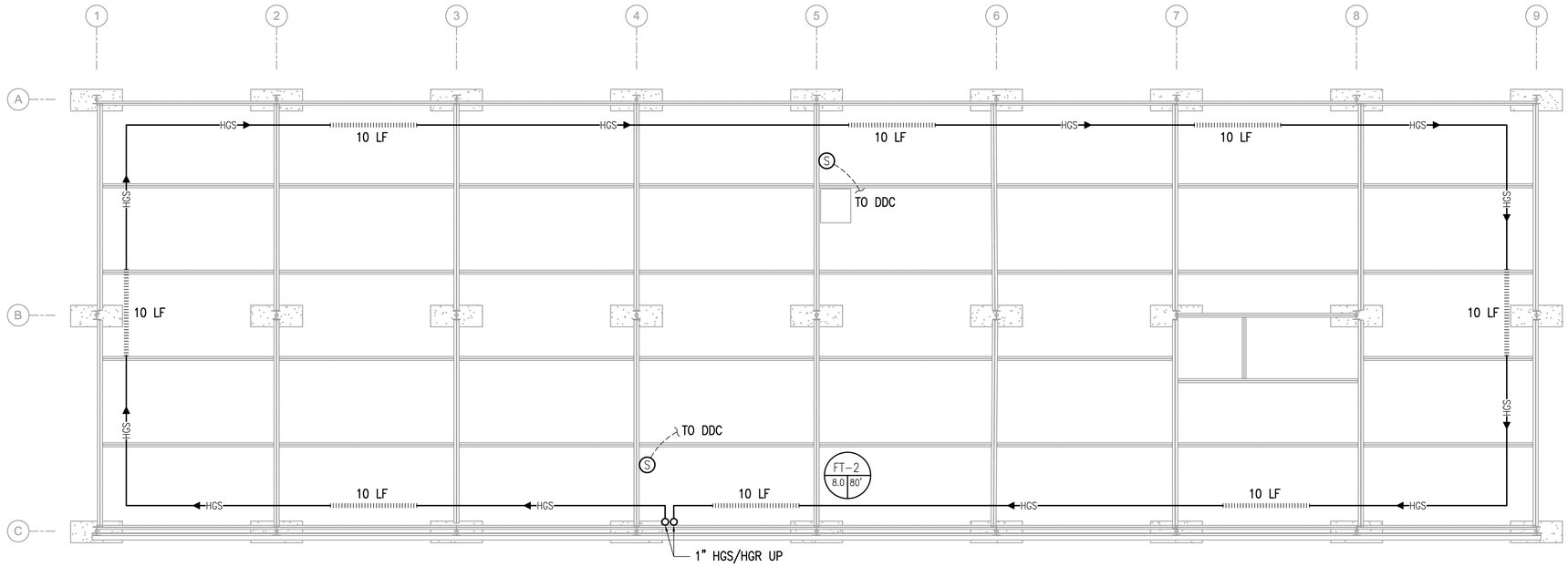
Plumbing Remodel Plan

M2.1



SHEET NOTES:

1. BARE ELEMENT FT-2 FINTUBE, INSTALL 24" BELOW STRUCTURE. DO NOT INSULATE HGS/HGR PIPING BETWEEN ELEMENT IN CRAWLSPACE.

REVISIONS

No	Description	Date

1 CRAWLSPACE HEATING REMODEL PLAN

1/8"=1'-0"

STATE OF ALASKA
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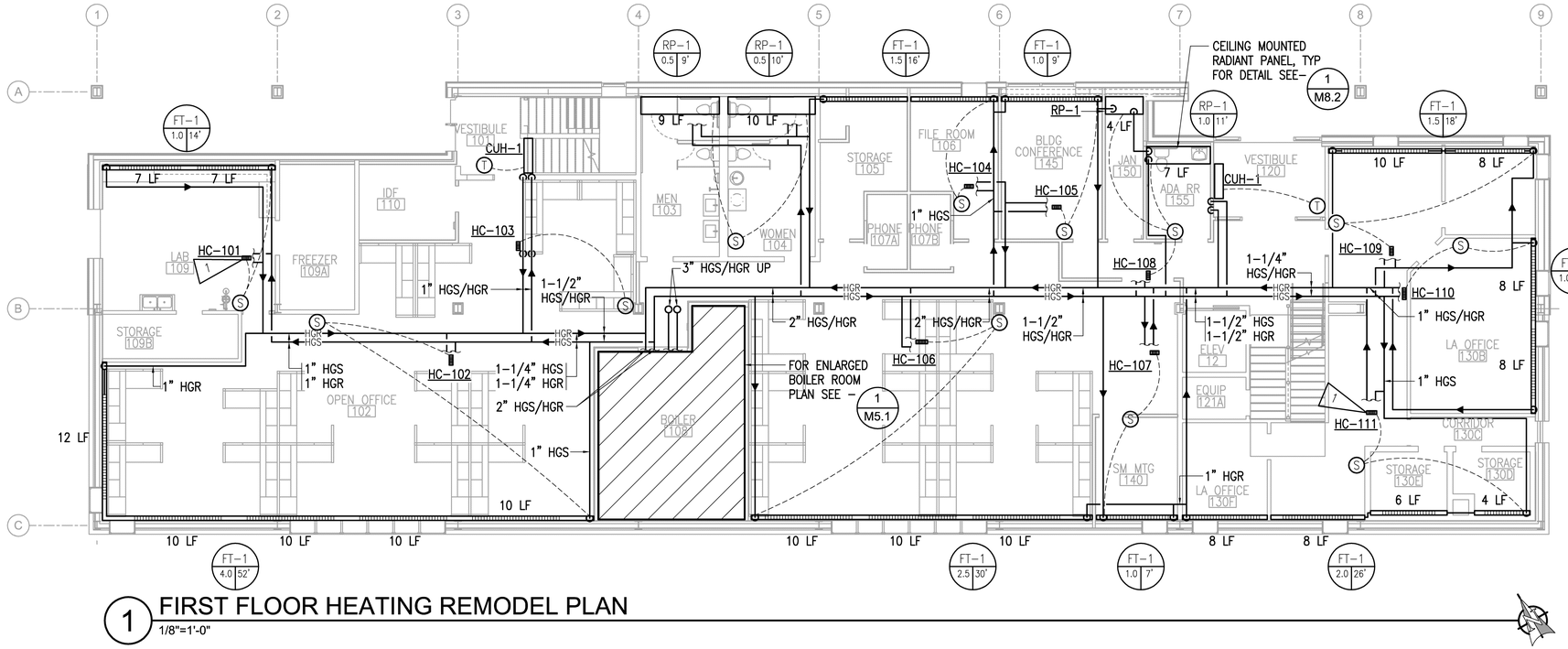
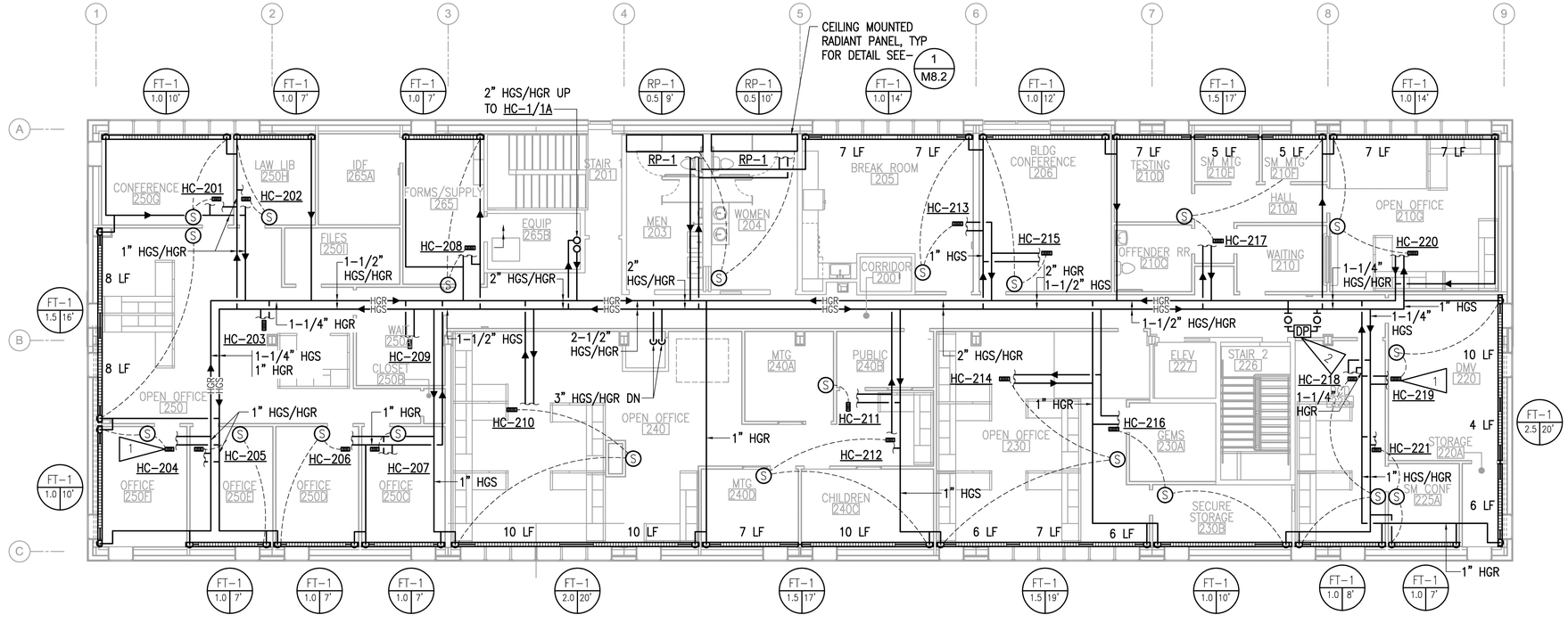
Crawlspace Heating Remodel Plan

M3.0



1 FIRST FLOOR HEATING REMODEL PLAN

1/8"=1'-0"



2 SECOND FLOOR HEATING REMODEL PLAN

1/8"=1'-0"

GENERAL NOTES:

1. ALL PIPING 3/4" UNLESS OTHERWISE NOTED.
2. PROVIDE 2–WAY CONTROL VALVES AT ALL VAV BOX HEATING COILS, UNLESS OTHERWISE NOTED. FOR TYPICAL 2–WAY PIPING DETAIL, SEE – 7/M8.1.
3. USE BLANK PLATE TEMPERATURE SENSORS IN CORRIDORS, VESTIBULES, RESTROOMS, AND LOCKER ROOMS.
4. ROUTE HEATING PIPING DOWN TO FINTUBE IN EXTERIOR WALL FRAMING INSIDE THE VAPOR BARRIER. DO NOT PENETRATE VAPOR BARRIER WITH ANY PIPING. FOR TYPICAL FINTUBE DETAIL, SEE–3/M8.2.

SHEET NOTES:

1. PROVIDE 3–WAY VALVE AT VAV BOX HEATING COIL. FOR TYPICAL 3–WAY VALVE PIPING DETAIL SEE– 6 M8.1
2. DIFFERENTIAL PRESSURE SENSOR.

REVISIONS

No	Description	Date

STATE OF ALASKA — 19TH — BRIAN P. PEKAR — ME-11249 — 12/13/13 — REGISTERED PROFESSIONAL ENGINEER

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Nome State Office Building Remodel

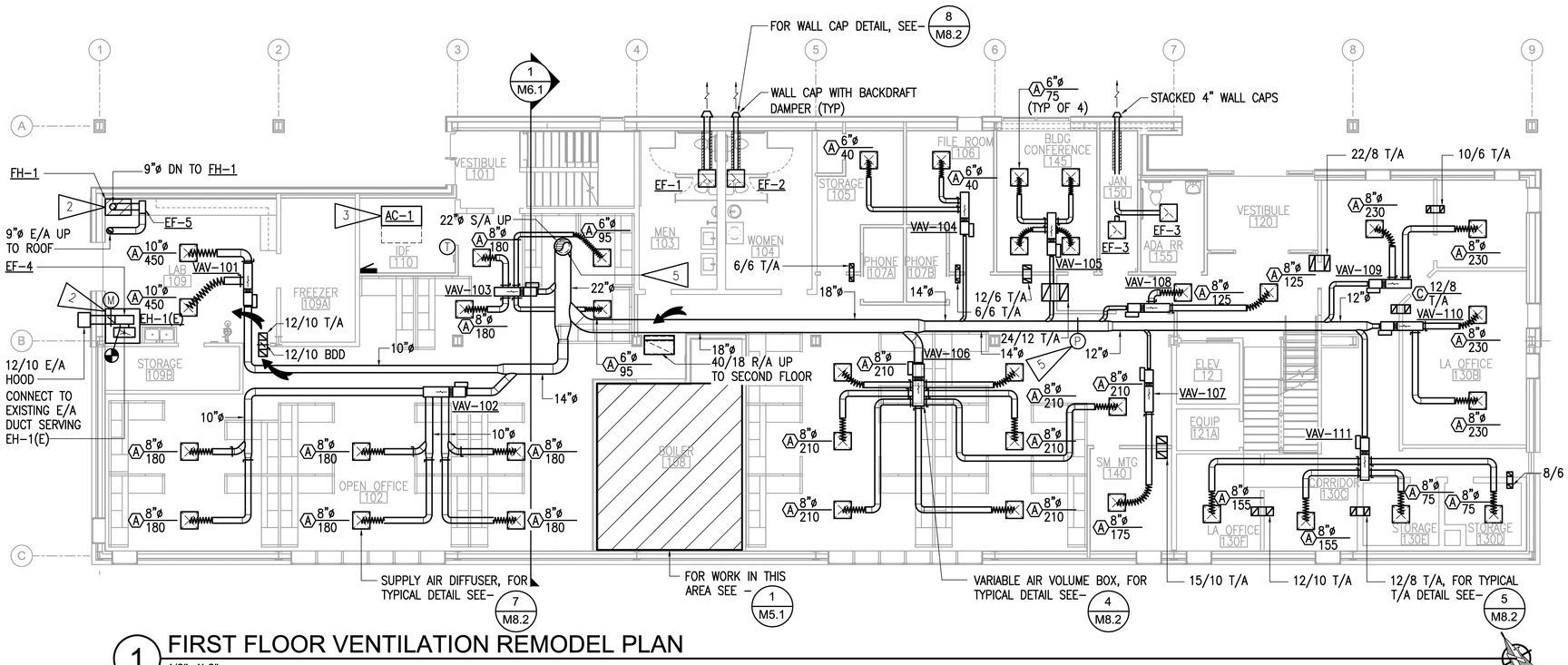
Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

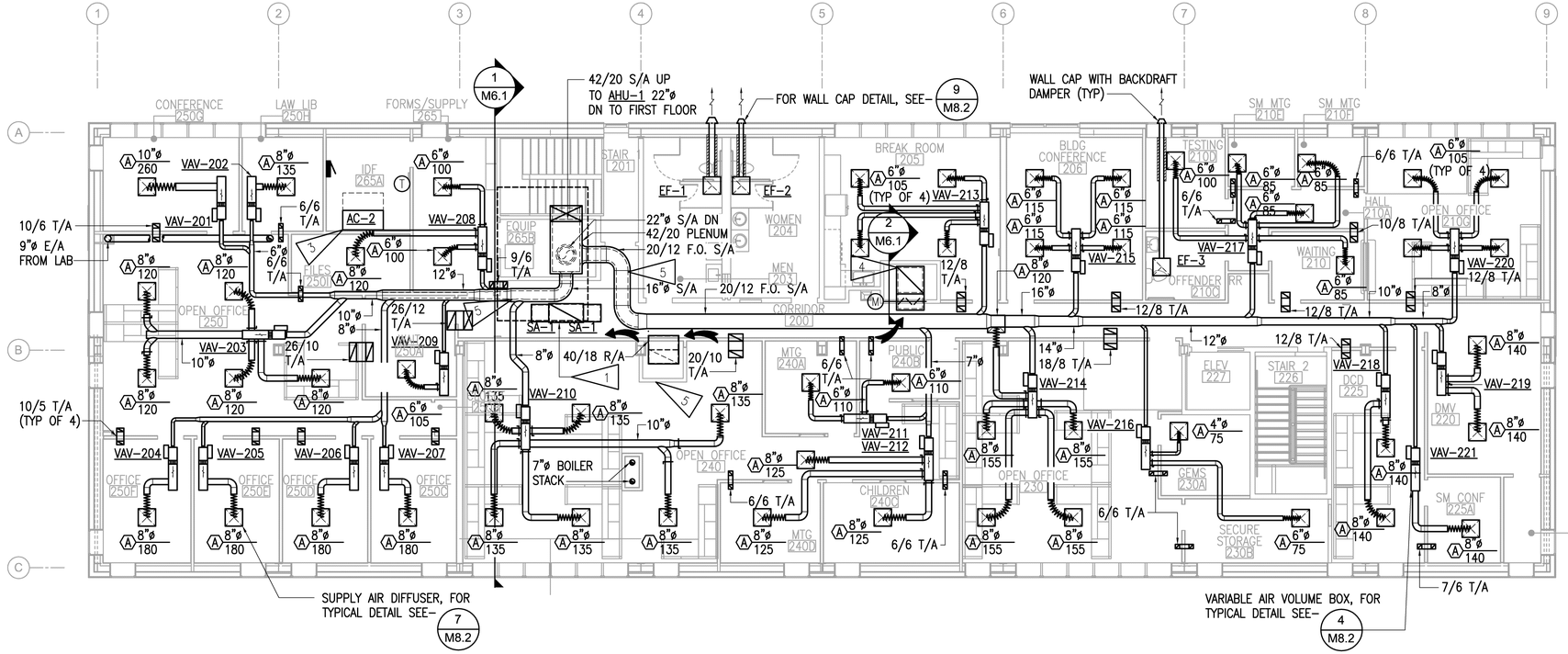
Heating Remodel Plan

M3.1



1 FIRST FLOOR VENTILATION REMODEL PLAN

1/8"=1'-0"



2 SECOND FLOOR VENTILATION REMODEL PLAN

1/8"=1'-0"

GENERAL NOTES:

1. COORDINATE FINAL PLACEMENT OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN, AND ELECTRICAL LIGHTING PLANS.
2. TEMPERATURE SENSORS SHOWN ON M3 SERIES HEATING PLANS.
3. LIGHT FIXTURES TO RETURN AIR ABOVE CEILING, SEE ELECTRICAL.

SHEET NOTES:

1. HEAVY GAUGE R/A CASING WITH 2" SOUND LINING WITH 'L' SHAPED SOUND ATTENUATOR.
2. EXISTING EXHAUST HOOD EH-1 AND NEW FUME HOOD FH-1.
3. CEILING MOUNT NEW AC UNITS AC-1 AND AC-2 IN IDF ROOMS.
4. 38/38 RELIEF AIR UP TO RF-1 WITH 38/38 MOD. PROVIDE 2" SOUND-LINED ELBOW TRANSITION TO PLENUM.
5. PRESSURE SENSOR FOR DDC CONTROL.
6. UTILIZE ACOUSTICAL S/A DUCTWORK TO THE EXTENT INDICATED.

REVISIONS

No	Description	Date

STATE OF ALASKA — 49TH — BRIAN P. PEKAR — ME-11249 — 12/13/13 — REGISTERED PROFESSIONAL ENGINEER

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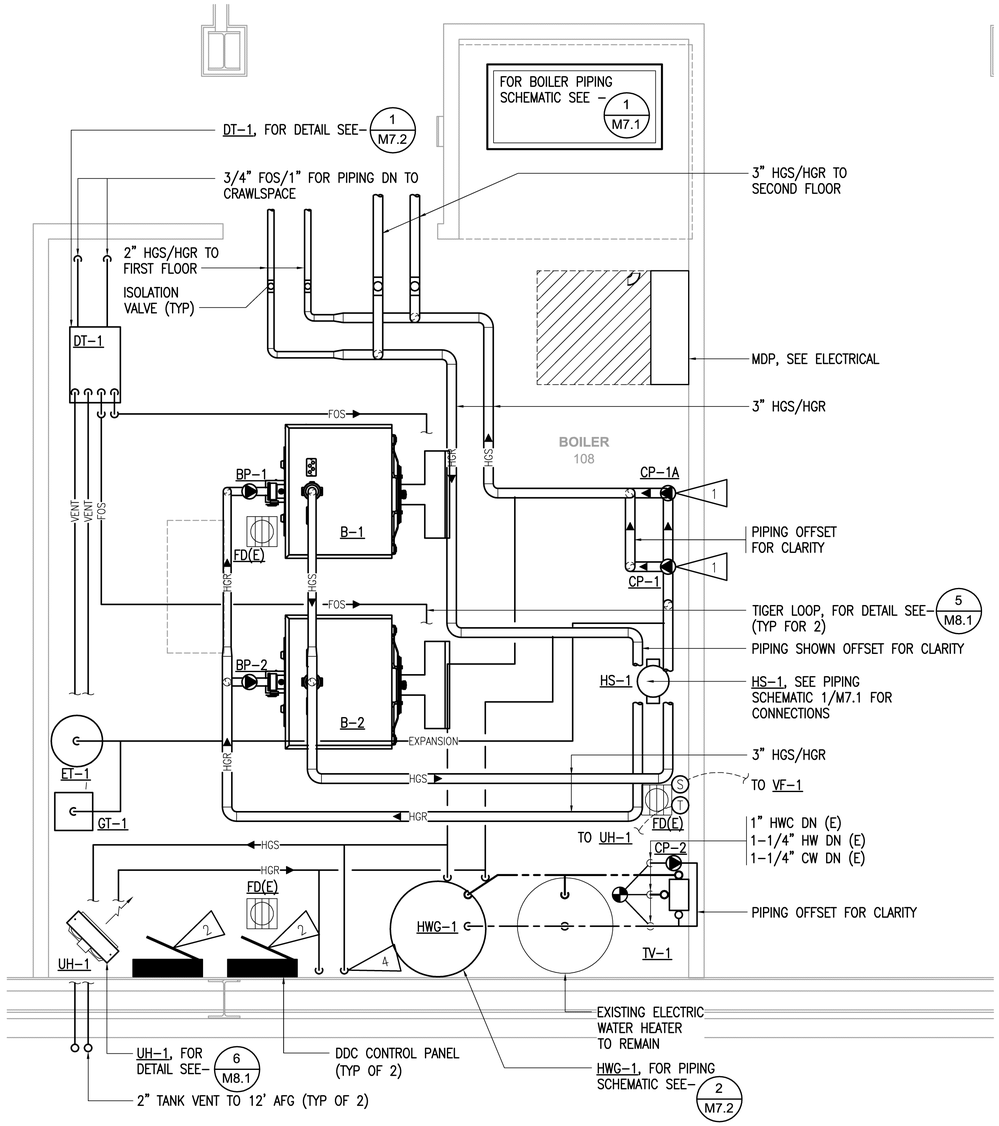
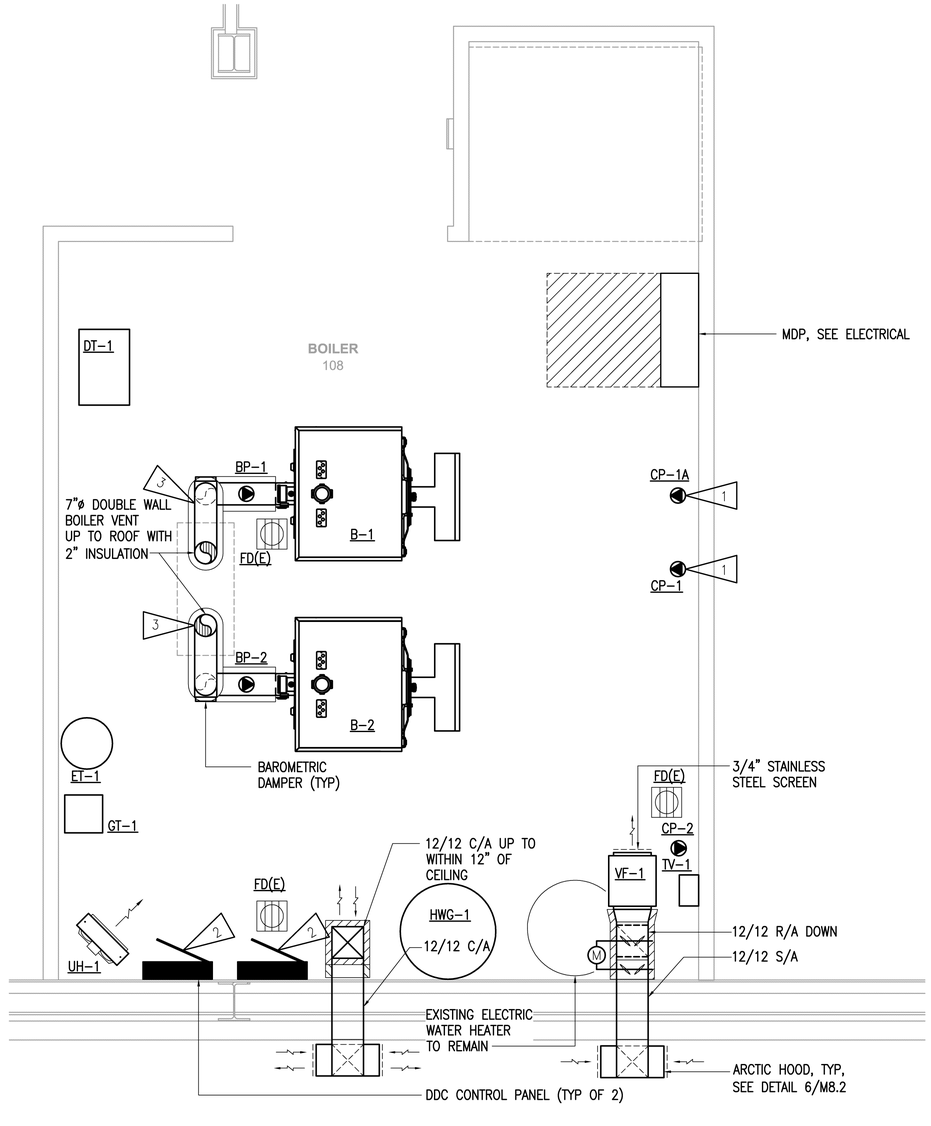
Ventilation Remodel Plan

M4.1



1 BOILER ROOM PIPING REMODEL PLAN

1/2"=1'0"

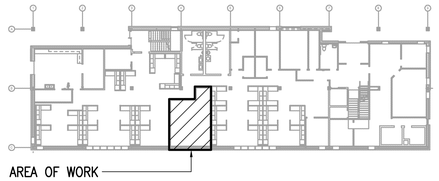


2 BOILER ROOM VENTILATION REMODEL PLAN

1/2"=1'0"

SHEET NOTES:

1. LOCATE PUMPS RACKED ON WALL IN VERTICAL FORMATION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. LOCATE NEW DDC PANELS ON WALL. PROVIDE NEC CLEARANCE IN FRONT AND ABOVE PANELS.
3. ROUTE NEW BOILER VENT UP THROUGH EXISTING CHASE TO ROOF.
4. 1" HGS/HGR DN TO CRAWLSPACE, SEE DETAIL-9/M8.1.



KEYPLAN

1/32"=1'0"

REVISIONS

No	Description	Date

STATE OF ALASKA
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Nome State Office Building Remodel

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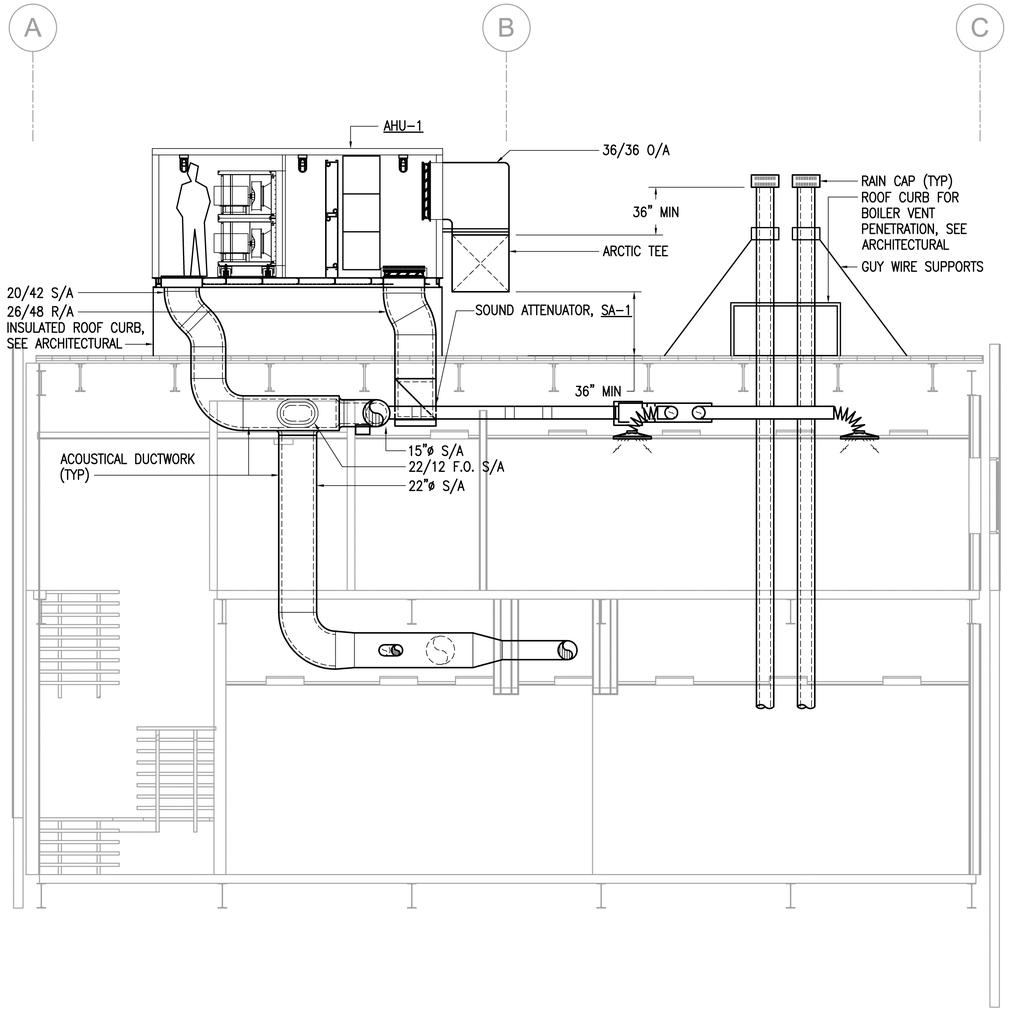
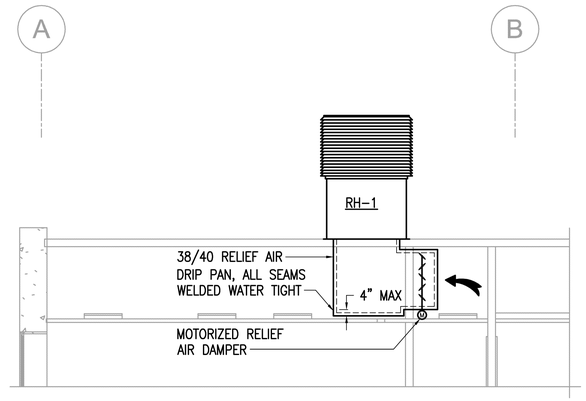
Enlarged Remodel Plan

M5.1



1 MECHANICAL AHU SECTION
1/4"=1'0"



2 MECHANICAL RELIEF SECTION
1/4"=1'0"

REVISIONS

No	Description	Date

STATE OF ALASKA
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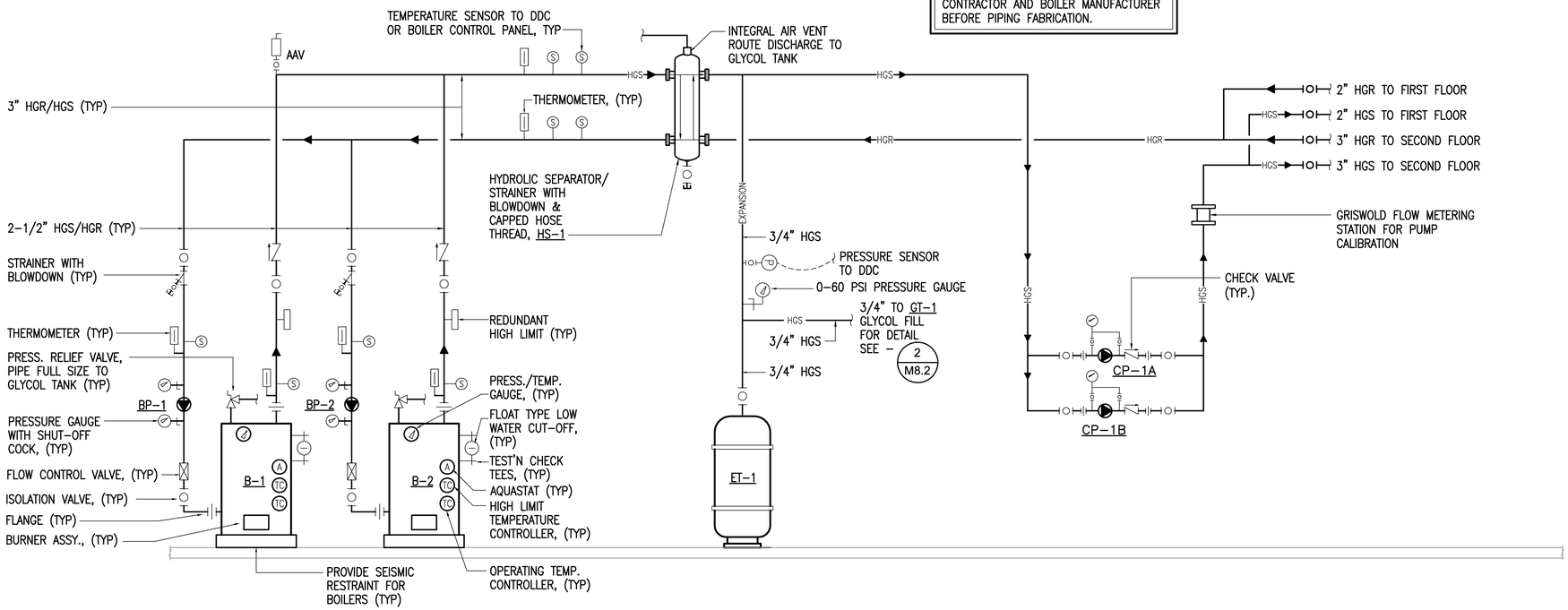
Remodel Sections

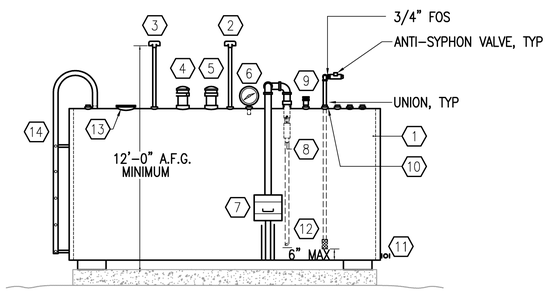
M6.1

NOTE:
COORDINATE LOCATIONS AND QUANTITY OF SENSOR WELLS REQUIRED WITH DDC CONTRACTOR AND BOILER MANUFACTURER BEFORE PIPING FABRICATION.



1 BOILER PIPING SCHEMATIC

NO SCALE



1. UL-142 FUEL OIL STORAGE TANK
2. PRIMARY TANK VENT
3. SECONDARY TANK VENT
4. PRIMARY TANK EMERGENCY VENT
5. SECONDARY TANK EMERGENCY VENT
6. MECHANICAL CLOCK TYPE TANK GAUGE
7. REMOTE FILL SPILL CONTAINER, VERIFY CONNECTION TYPE REQUIRED WITH OWNER FUEL DELIVERY COMPANY PRIOR TO ORDERING
8. OVERFILL PREVENTION VALVE
9. NOT USED
10. TAPPING, TYP
11. PROVIDE 1" FROST PROOF DRAIN VALVE, MORRISON BROTHERS MODEL MR128DIS OR APPROVED EQUAL. PROVIDE 2" FTP x 1" FTP BUSHING. PROVIDE PLUG AT VALVE DISCHARGE.
12. PROVIDE SINGLE POPPET FOOT VALVE WITH MONEL 20 MESH INTAKE SCREEN. OPW MODEL 0P85-022 OR APPROVED EQUAL, TYP OF 2 PROVIDE TANK BUSHING AS REQUIRED FOR. CONNECTION OF 1, 3/4" FOS DROP TUBE.
13. 24" BOLTED MANWAY
14. OSHA LADDER

2 FUEL TANK DETAIL (ALTERNATE BID)

NO SCALE

REVISIONS

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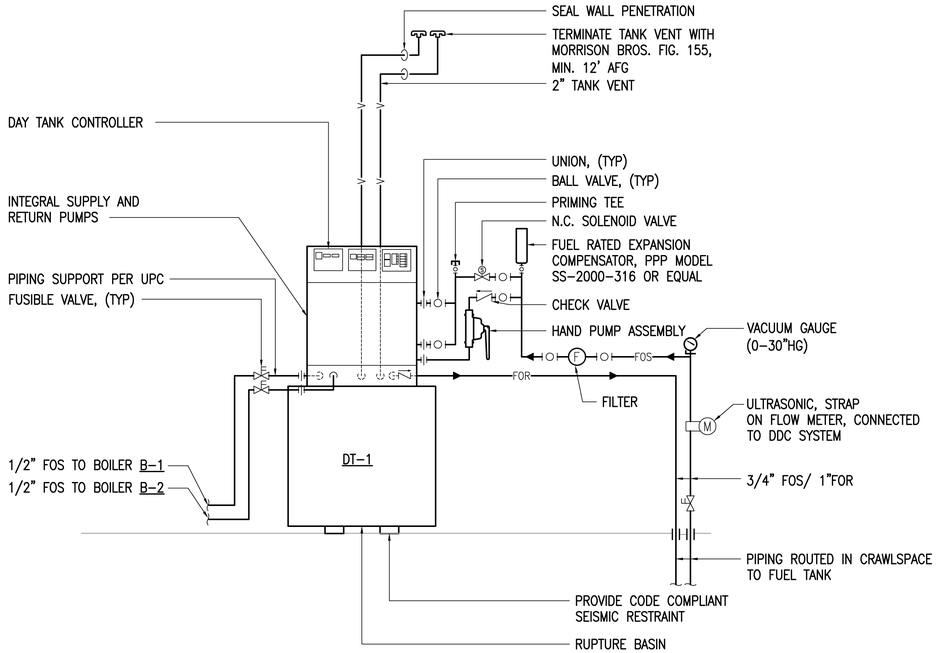
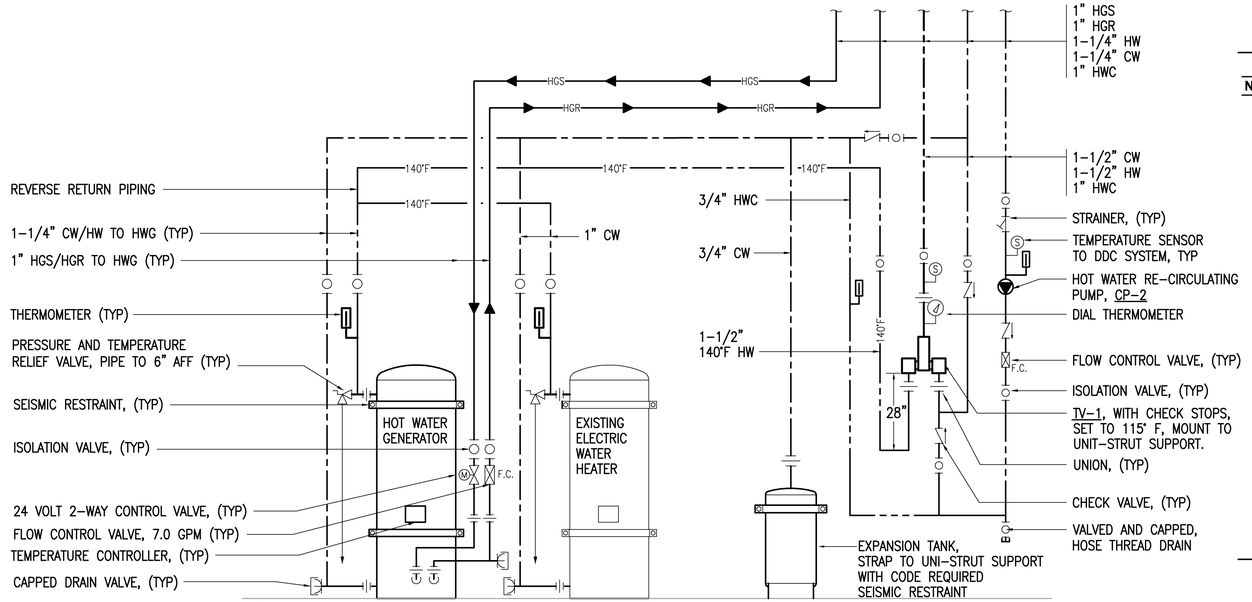
Mechanical Piping Schematics

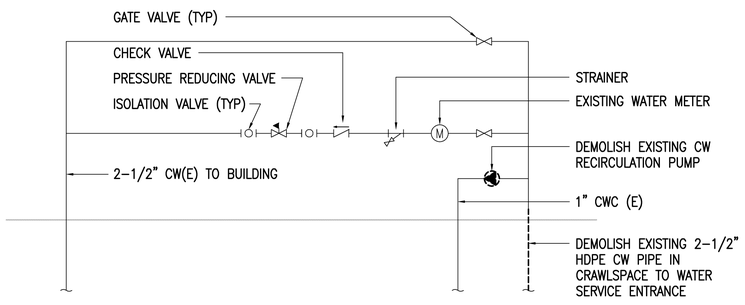
M7.1



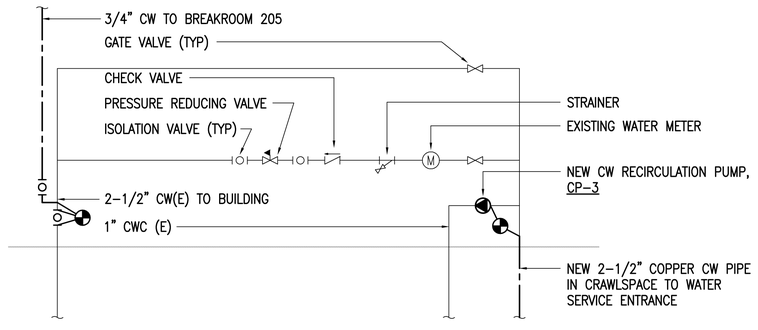
1 DAY TANK PIPING SCHEMATIC
NO SCALE



2 DOMESTIC WATER PIPING SCHEMATIC
NO SCALE



3 WATER SERVICE ENTRANCE DEMOLITION SCHEMATIC
NO SCALE



4 WATER SERVICE ENTRANCE REMODEL SCHEMATIC
NO SCALE

REVISIONS

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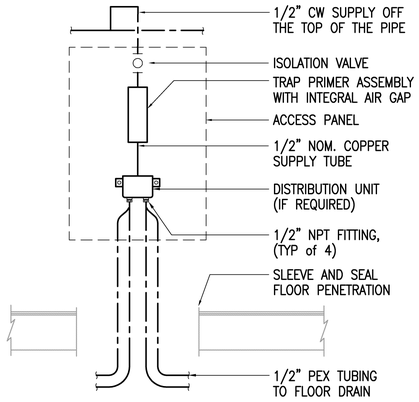
Remodel Schematics

M7.2



1 TRAP PRIMER DETAIL
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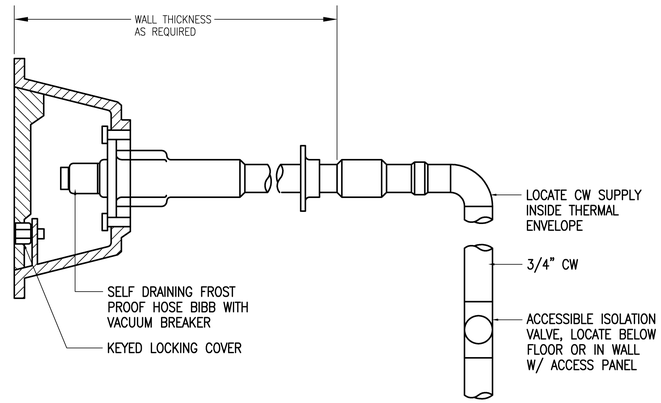
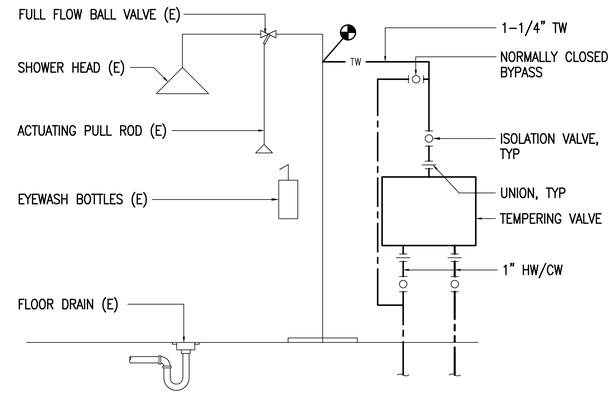
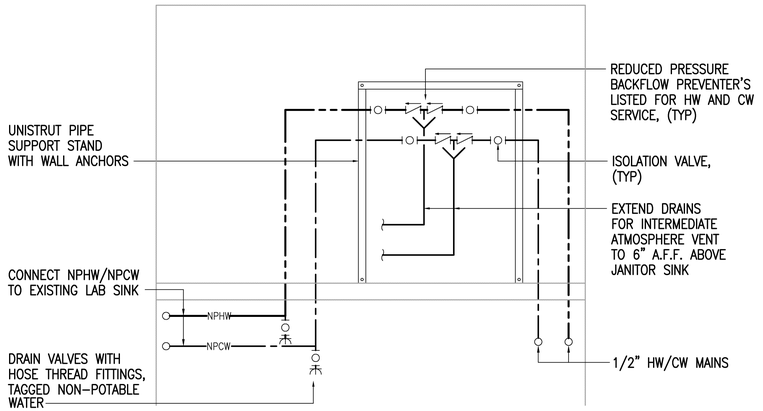


2 EXTERIOR HOSE BIBB DETAIL
NO SCALE



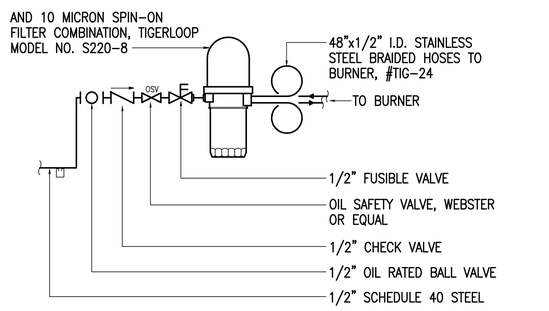
3 EYEWASH/SHOWER DETAIL
NO SCALE



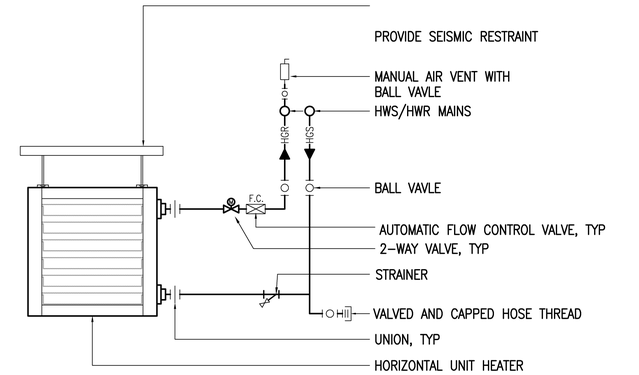
4 BACKFLOW PREVENTER DETAIL
NO SCALE

NOTE: COORDINATE INSTALLATION TO ALLOW BURNER SWING

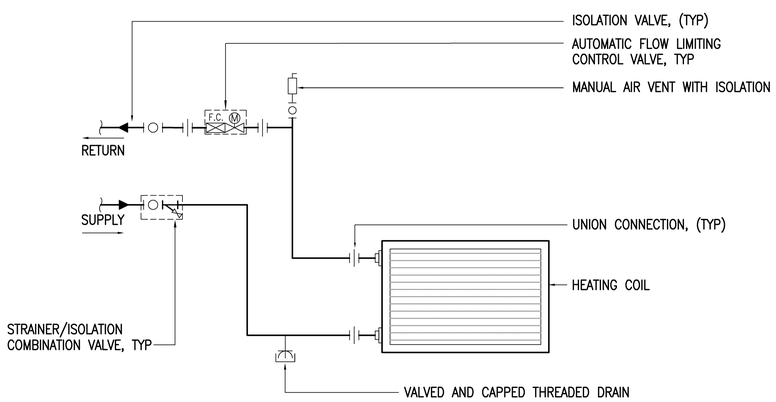
SUSPEND UNIT WITH UNI-STRUT AND ALL-THREAD,



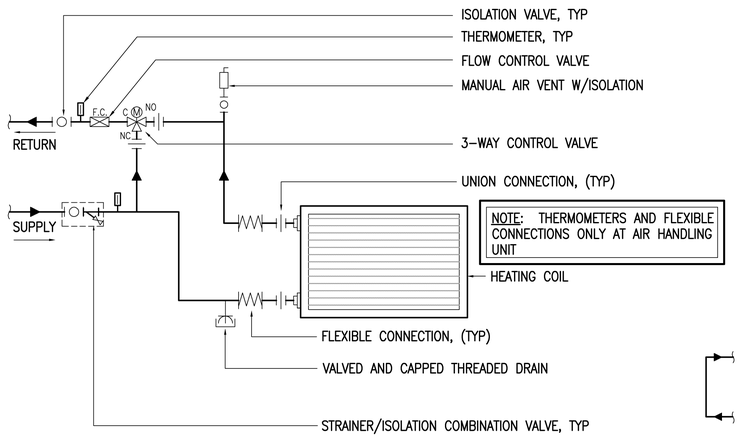
5 TIGER LOOP DETAIL
NO SCALE



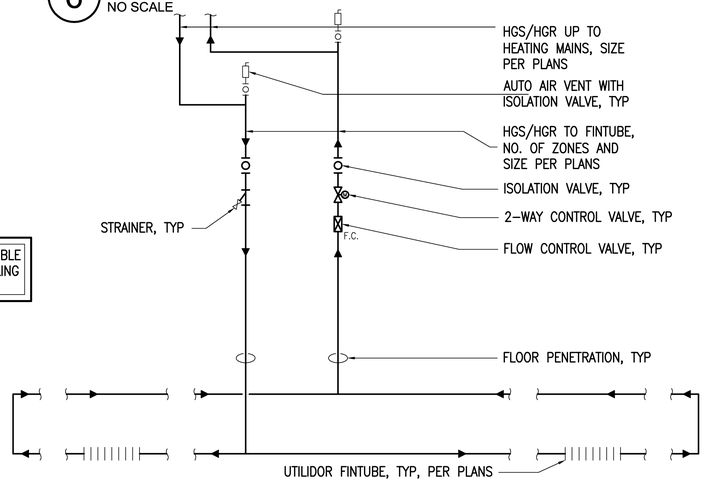
6 UNIT HEATER DETAIL
NO SCALE



7 TWO WAY COIL PIPING DETAIL
NO SCALE



8 THREE WAY HEATING COIL PIPING DETAIL
NO SCALE



9 CRAWLSPACE HEATING DETAIL
NO SCALE

REVISIONS

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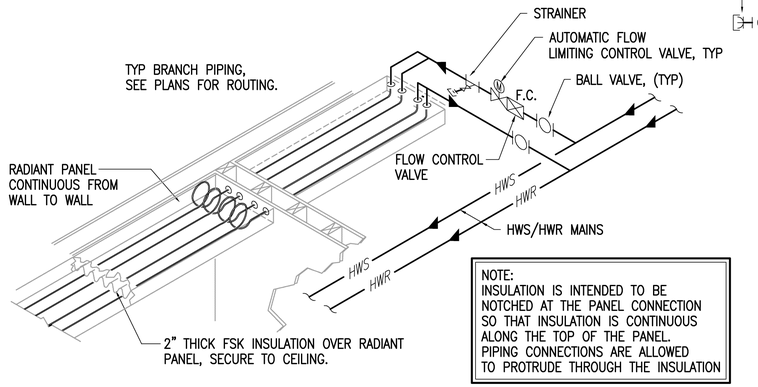
Details

M8.1



1 RADIANT PANEL DETAIL
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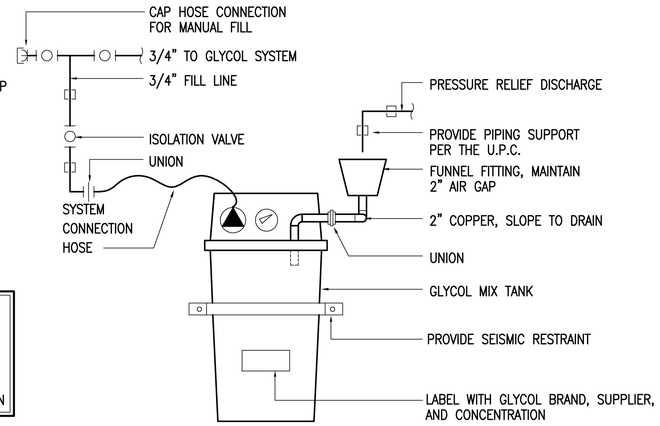
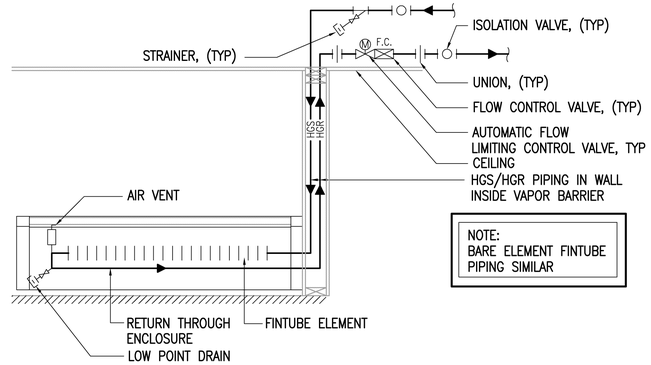
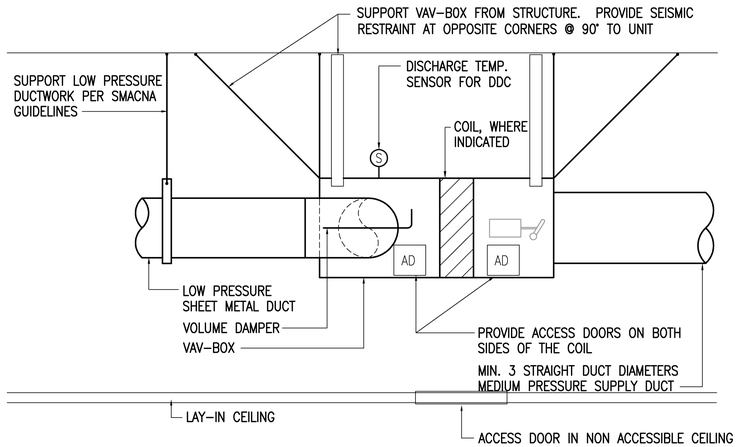


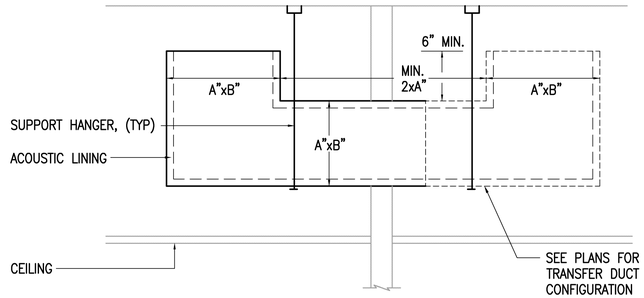
2 GLYCOL TANK DETAIL (GT-1)
NO SCALE



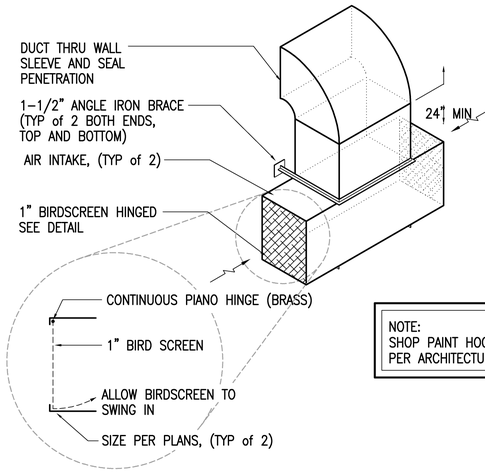
3 FINTUBE DETAIL
NO SCALE



4 VAV BOX DETAIL
NO SCALE



5 AIR TRANSFER DUCT DETAIL
NO SCALE



6 ARCTIC TEE DETAIL
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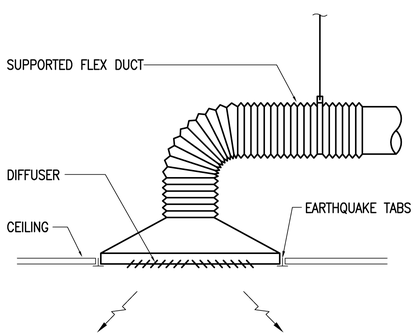

7 DIFFUSER DETAIL
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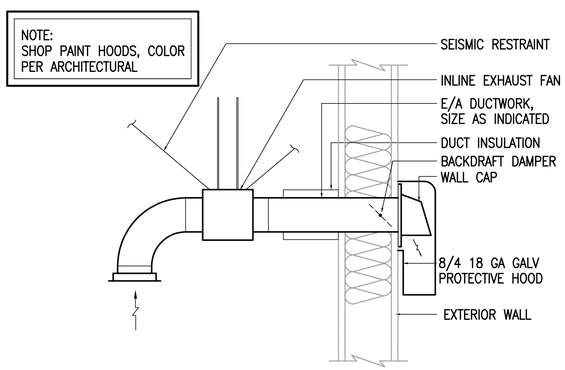
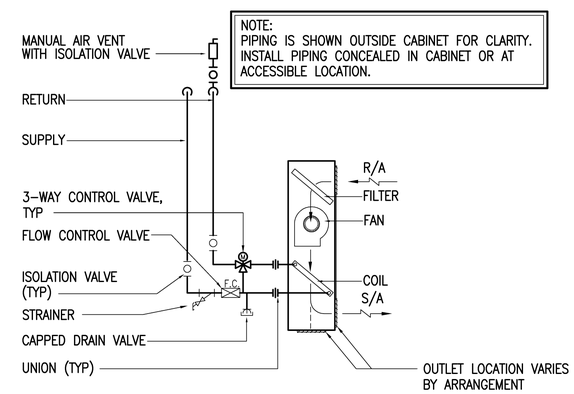


8 EXHAUST WALL CAP DETAIL
NO SCALE



9 WALL MOUNTED CABINET UNIT HEATER DETAIL
NO SCALE

REVISIONS

No	Description	Date

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Details

M8.2

LIGHT FIXTURE SCHEDULE

TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS		BALLAST		INPUT WATTS
				TYPE	HEIGHT	NO.	WATTS	NO.	TYPE	
A	PRIVATE OFFICES	HE WILLIAMS HET G AR 2 4–2 32–A–EBSD2*50–UNV	2'Wx4'L RECESSED FLUORESCENT FIXTURE WITH 22–GAUGE DIE FORMED ROLLED STEEL HOUSING, FROSTED RIBBED ACRYLIC DIFFUSERS AND HIGH REFLECTIVE MATTE WHITE POLYESTER POWDER FINISH	RECESSED	CEILING	2	32 T8	1	MULTI–VOLT ELECTRONIC (50% STEP DIMMING)	60
B	OPEN OFFICES	HE WILLIAMS HET G AR 2 4–2 32–A–EB2 –UNV	SAME AS TYPE 'A', EXCEPT WITHOUT STEP DIMMING BALLAST.	RECESSED	CEILING	2	32 T8	1	MULTI–VOLT ELECTRONIC	60
C	AS SHOWN	HE WILLIAMS LL6 G–4–1 28T5S SWF/12125 –EB2–UNV ACCESSORY: DFK–0648W	4.9"Dx5.8"Wx4'L RECESSED FLUORESCENT FIXTURE WITH 22–GAUGE DIE–FORMED COLD ROLLED STEEL HOUSING, ACRYLIC LENS, PARABOLIC LOUVERS AND 92% MATTE WHITE POLYESTER POWDER FINISH.	RECESSED	CEILING	1	28 T5	1	MULTI–VOLT ELECTRONIC	33
D	MECHANICAL STORAGE	HE WILLIAMS 77–4–2 32 WG7714 EB2 UNV	4' STRIP LIGHT WITH WIRE GUARD.	SURFACE	CEILING	2	32 T8	1	MULTI–VOLT ELECTRONIC	60
F	PHONE ROOMS	HE WILLIAMS HET G AR 2 2–2 17–A–EB2 –UNV	SAME AS TYPE 'A', EXCEPT 2'x2' AND WITHOUT STEP DIMMING BALLAST	RECESSED	CEILING	2	17 T8	1	MULTI–VOLT ELECTRONIC	30
G	EXTERIOR CANOPY	LITHONIA DOM6R 900L 35K 120 DL6T73	6" RECESSED WET LISTED FIXTURE ENCLOSED GASKETED COLD WEATHER RATED	RECESSED	CEILING	N/A	25 LED	1	80% LUMEN MANAGEMENT	25
H	AS SHOWN	LITHONIA WT8 2 32 MVOLT GEB10PS	3.7"Dx4.8"Wx4'L SURFACE FLUORESCENT FIXTURE WITH ROLL FORMED CODE GAUGE STEEL HOUSING, HIGH IMPACT ACRYLIC DIFFUSER AND WHITE POLYESTER POWDER FINISH.	WALL	7'–0"	2	32 T8	1	MULTI–VOLT ELECTRONIC (PROGRAMMED START)	60
I	BATHROOM	LITECONTROL W–D–02–1–4–T8 SGLTCMN ELB 1CWB 120	3"x2.8" WALL MOUNT EXTRUDED ALUMINUM DIRECT FIXTURE WITH SOFT GLOW LENS.	WALL	7'–0"	1	32 T8	1	MULTI–VOLT ELECTRONIC (PROGRAMMED START)	60
J	AS SHOWN	HE WILLIAMS SLF–4–2 32–HIA–EB2–UNV	5.1"Dx5.9"Hx4'L SURFACE/WALL MOUNTED FLUORESCENT FIXTURE WITH 16–GAUGE COLD ROLLED STEEL HOUSING, FROSTED HIGH–IMPACT ACRYLIC SHIELDING AND 92% REFLECTIVE WHITE POLYESTER POWDER COAT FINISH.	SURFACE/ WALL	CEILING OR 7'–0" AFF	2	32 T8	1	MULTI–VOLT ELECTRONIC (PROGRAMMED START)	60
K	AS SHOWN	HE WILLIAMS 11–4–2 32–F A12125–XX–EB2–UNV	12.1"Dx4"Hx4'L WALL/SURFACE MOUNTED FLUORESCENT FIXTURE WITH 16–GAUGE COLD ROLLED STEEL HOUSING, FROSTED HIGH–IMPACT ACRYLIC SHIELDING AND 92% REFLECTIVE WHITE POLYESTER POWDER COAT FINISH.	SURFACE	CEILING	2	32 T8	1	MULTI–VOLT ELECTRONIC (PROGRAMMED START)	60
L	BUILDING EXTERIOR	LITECONTROL OLAW23–53K–120–PE–BZ	WALL MOUNTED LIGHT FIXTURE. TO MATCH EXISTING.	SURFACE	MATCH EXISTING	10	3.5	1	N/A	35
X	EXIT PATH	LITHONIA LQC W 1 R ELN	DIE CAST ALUMINUM EXIT SIGN WITH TED LETTERS, NICKEL–CADMIUM BATTERY BACK–UP UNIVERSAL–MOUNT	AS SHOWN	9'–0"	N/A	0.6	1	N/A	0.6
X1	EXTERIOR EXIT	LITHONIA ELM618–N–RO ELA AFNR W	HEADLESS EMERGENCY LIGHT UNIT WITH REMOTE FIXTURES.	WALL	9'–0"	N/A	21	1	120V	21

LEGEND

○	LIGHT FIXTURE – SURFACE MTD		COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER
⊢○	LIGHT FIXTURE – SURFACE MTD ON WALL		TELEPHONE OUTLET
◎	LIGHT FIXTURE – RECESS MTD		TELECOMMUNICATIONS OUTLET (COMBINATION TELEPHONE & DATA)
	EMERGENCY EXIT LIGHT – SURFACE MTD CLG	TV	TELEVISION OUTLET
	EMERGENCY EXIT LIGHT – SURFACE MTD WALL	K	SECURITY KEYPAD
	EMERGENCY LIGHT	MS	SECURITY MOTION SENSOR
	EMERGENCY FIXTURE – FLUORESCENT		CLOSED CIRCUIT TELEVISION CAMERA (WALL MOUNTED)
	FLUORESCENT FIXTURE – RECESS MTD		CLOSED CIRCUIT TELEVISION CAMERA (CEILING MOUNTED)
	FLUORESCENT FIXTURE – SURFACE MTD	FCP	FIRE ALARM CONTROL PANEL
	FLUORESCENT FIXTURE – PENDANT MTD	FRA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	FLUORESCENT FIXTURE – WALL MTD		FIRE ALARM PULL STATION
	FLUORESCENT FIXTURE STRIP – SURFACE MTD CLG		SPRINKLER ALARM BELL
	FLUORESCENT FIXTURE STRIP – WALL MTD	, C	FIRE ALARM HORN (WALL, CLG MOUNTED)
	FLOODLIGHT – OUTDOORS, WEATHERPROOF	, C	FIRE ALARM HORN/STROBE LIGHT (WALL, CLG MOUNTED)
	POLE MOUNTED AREA LIGHT – OUTDOORS, WEATHERPROOF	, C	FIRE ALARM STROBE LIGHT (WALL, CLG MOUNTED)
A	FIXTURE TAG (LETTER INDICATES TYPE)	1	HEAT DETECTOR 135° & RATE OF RISE (OR FIXED °F IF NOTED)
$	SINGLE POLE SWITCH	2	PHOTOELECTRIC SMOKE DETECTOR
$a	SINGLE POLE SWITCH (LOWERCASE LETTER INDICATES SWITCHING)		DUCT TYPE PHOTOELECTRIC SMOKE DETECTOR
$3	THREE WAY SWITCH, FOUR WAY SWITCH	CM	CONTROL MODULE
$D	DIMMER SWITCH	FS	SPRINKLER WATER FLOW SWITCH
$OS	OCCUPANCY SENSOR WALL SWITCH (DUALTECH)	TS	SPRINKLER VALVE TAMPER SWITCH
$OS2	OCCUPANCY SENSOR WALL SWITCH DUAL LEVEL (DUALTECH)		DUPLEX RECEPTACLE TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL)
OS	OCCUPANCY SENSOR – CEILING MOUNTED (DUALTECH)	1	NOTE TAG (No. INDICATES NOTE)
OS U	OCCUPANCY SENSOR – CEILING MOUNTED (ULTRASONIC)	AFF	ABOVE FINISHED FLOOR
⊢OS	OCCUPANCY SENSOR – WALL MOUNTED (PIR)	AFG	ABOVE FINISHED GRADE
P	PHOTOCELL	C	CONDUIT
	CONDUIT, CONCEALED	BF	BALLAST FACTOR
#10	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)	CO	CONDUIT ONLY
A–2	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)	EM	DENOTES EMERGENCY POWER
—OH/E—	OVERHEAD ELECTRICAL LINE (12470/7200V UON)	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
—SR—	SURFACE RACEWAY	GRSC	GALVANIZED RIGID STEEL CONDUIT
	PANEL	MCB	MAIN CIRCUIT BREAKER
	DUPLEX RECEPTACLE	MLO	MAIN LUGS ONLY
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER	NEC	NATIONAL ELECTRICAL CODE
	QUADRAPLEX RECEPTACLE	TTB	TELEPHONE TERMINAL BACKBOARD
	SPECIAL PURPOSE OUTLET	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
	JUNCTION BOX	TYP	TYPICAL
	MOTOR (SIZED AS NOTED)	UON	UNLESS OTHERWISE NOTED
$T	FRACTIONAL HORSEPOWER MOTOR STARTER	WAP	WIRELESS ACCESS POINT
	DISCONNECT SWITCH	WP	WEATHERPROOF
	DISCONNECT SWITCH (FUSED)		

GENERAL NOTES:

A. PROJECT WILL BE CONSTRUCTED IN PHASES WITH SECTIONS OF THE BUILDING OCCUPIED DURING CONSTRUCTION. COORDINATE WITH ARCHITECTURAL FOR CONSTRUCTION SEQUENCE. ELECTRICAL SYSTEMS IN OCCUPIED AREAS SHALL REMAIN OPERABLE DURING CONSTRUCTION.

SHEET NOTES:

1. SEE 1/E2.1 FOR FIXTURE(S) REQUIRING EMERGENCY BALLAST.

REVISIONS

No	Description	Date

STATE OF ALASKA
40TH
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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Electrical Legend & Schedule

E0.1

1 1ST FLOOR LIGHTING DEMOLITION PLAN
1/8"=1'-0"

2 2ND FLOOR LIGHTING DEMOLITION PLAN
1/8"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
2. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

1. DEMOLISH AND DISPOSE OF EXISTING LIGHTING FIXTURES.
2. DEMOLISH AND DISPOSE OF EXISTING FIXTURE.
3. DEMOLISH EXISTING FIXTURE AND SAVE FOR RELOCATION AS SHOWN ON 2/E2.1.
4. DEMOLISH EXISTING LIGHT FIXTURES IN CRAWLSPACE.

REVISIONS

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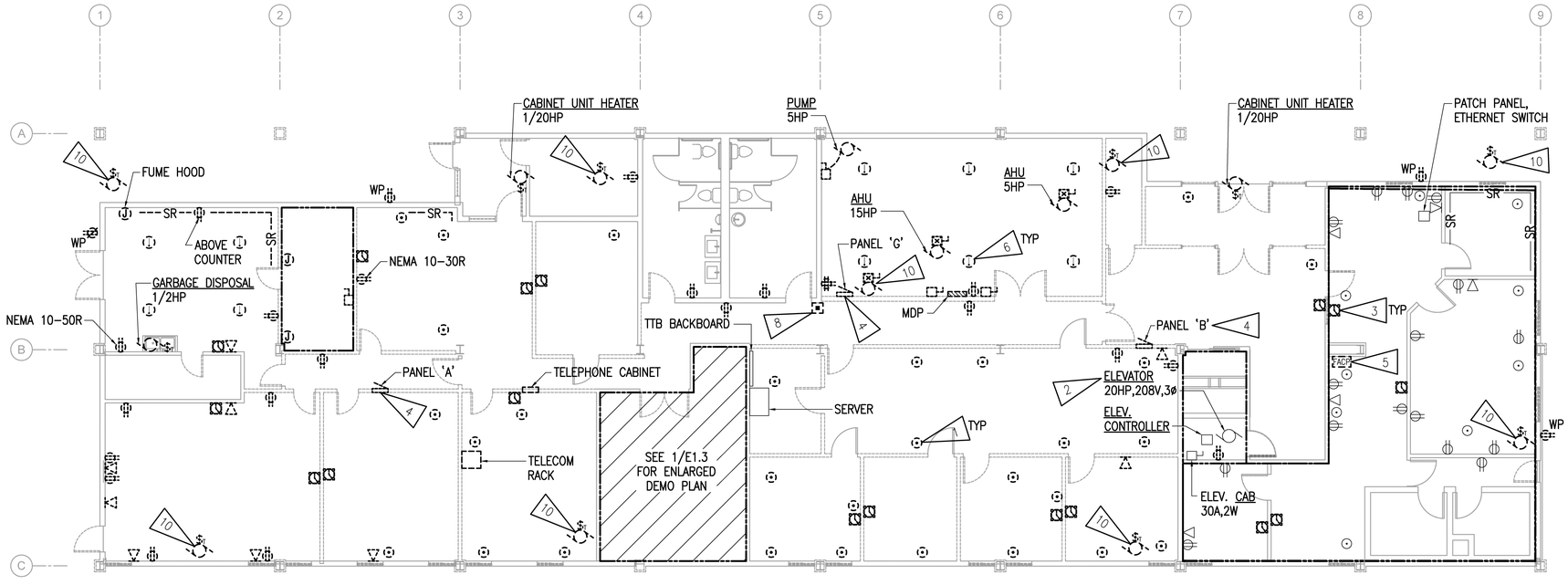
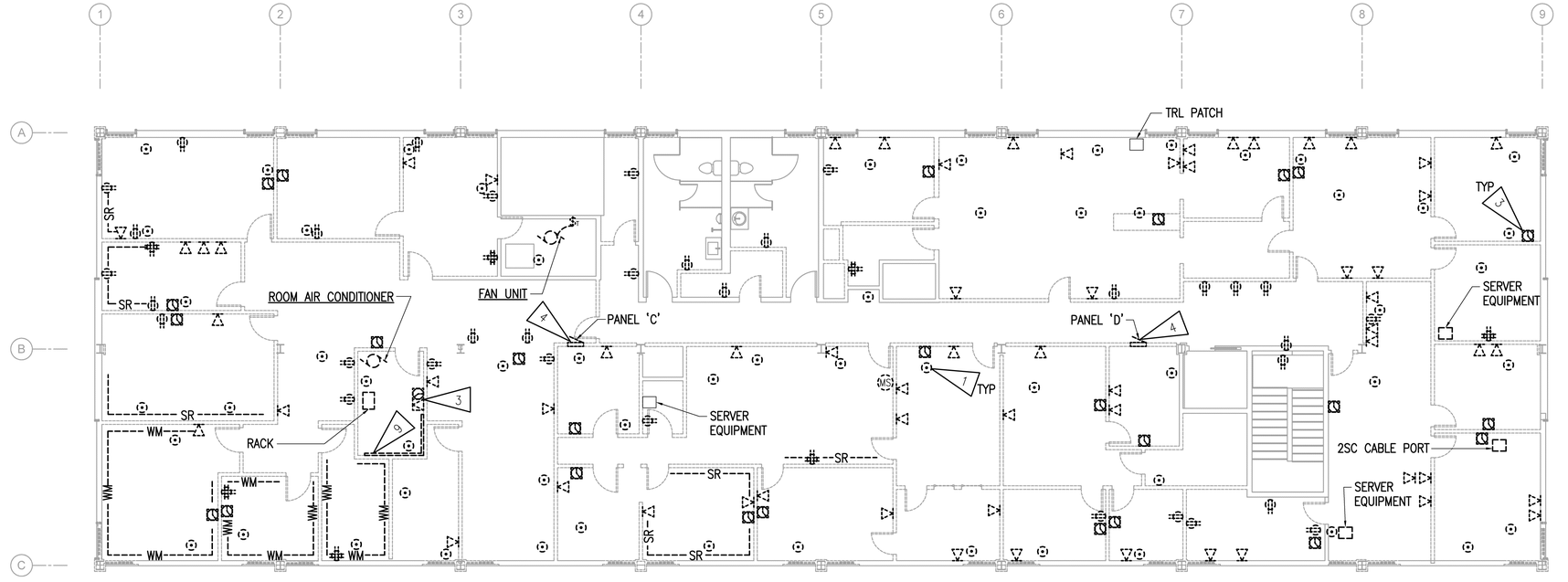
Lighting Demolition Plans

E1.1



1 1ST FLOOR POWER AND SIGNAL DEMOLITION PLAN

1/8"=1'-0"



2 2ND FLOOR POWER AND SIGNAL DEMOLITION PLAN

1/8"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
2. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

1. REMOVE EXISTING FLOOR OUTLETS AND CAP FLOOR PENETRATION. REMOVE CONDUCTORS AND CABLES TO POINT OF SUPPLY.
2. EXISTING ELEVATOR TO REMAIN. DEMOLISH FEEDER TO EXISTING MDP FOR RECONNECTION TO NEW MDP.
3. DEMOLISH EXISTING CLOCK EQUIPMENT AND CABLING BACK TO HEADEND EQUIPMENT.
4. REMOVE EXISTING DISTRIBUTION PANEL AND FLOOR DUCT SYSTEM RISERS. REPAIR FLOOR AT RISER LOCATION.
5. REMOVE EXISTING FIRE ALARM CONTROL PANEL. REPAIR FINISH TO MATCH EXISTING.
6. REMOVE EXISTING FIRE ALARM DEVICE AND PULL CONDUCTORS BACK TO SOURCE.
7. REMOVE EXISTING EXTERIOR LIGHTING CONTACTOR.
8. REMOVE EXISTING HANDICAP PUSH BUTTON DOOR OPENER AND DEMOLISH CONDUCTORS BACK TO SOURCE.
9. OWNER TO REMOVE EXISTING TELEPHONE EQUIPMENT. CONTRACTOR TO REMOVE BACKBOARD AND PUNCHDOWN BLOCKS.
10. DEMOLISH CIRCUITS FOR EXISTING UNIT HEATER IN CRAWL SPACE. COORDINATE WITH MECHANICAL.
11. DEMOLISH FEEDER TO EXISTING AHU IN CRAWLSPACE. COORDINATE WITH MECHANICAL.
12. OWNER TO REMOVE EXISTING NETWORK AND TELECOMMUNICATIONS HEADEND EQUIPMENT. CONTRACTOR SHALL REMOVE PUNCHDOWN AND OTHER EQUIPMENT AFTER OWNER'S DEMOLITION.

REVISIONS

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Nome State Office Building Remodel

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State Project No.: NSOB001

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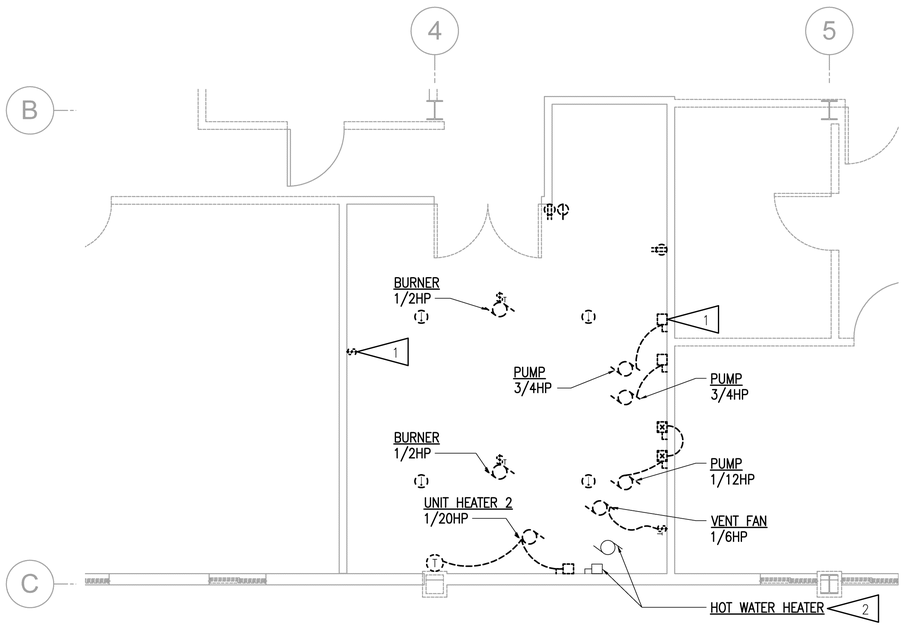
Power, & Signal Demo Plans

E1.2



1 ENLARGED BOILER ROOM DEMOLITION PLAN

1/4"=1'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON–DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE–IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
2. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

1. REMOVE CIRCUITRY FOR EXISTING MECHANICAL EQUIPMENT BACK TO SOURCE OF SUPPLY
2. EXISTING HOT WATER HEATER TO REMAIN. EXTEND CIRCUIT TO NEW PANEL 'M'. SEE 2/E3.2.

REVISIONS		
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STATE OF ALASKA
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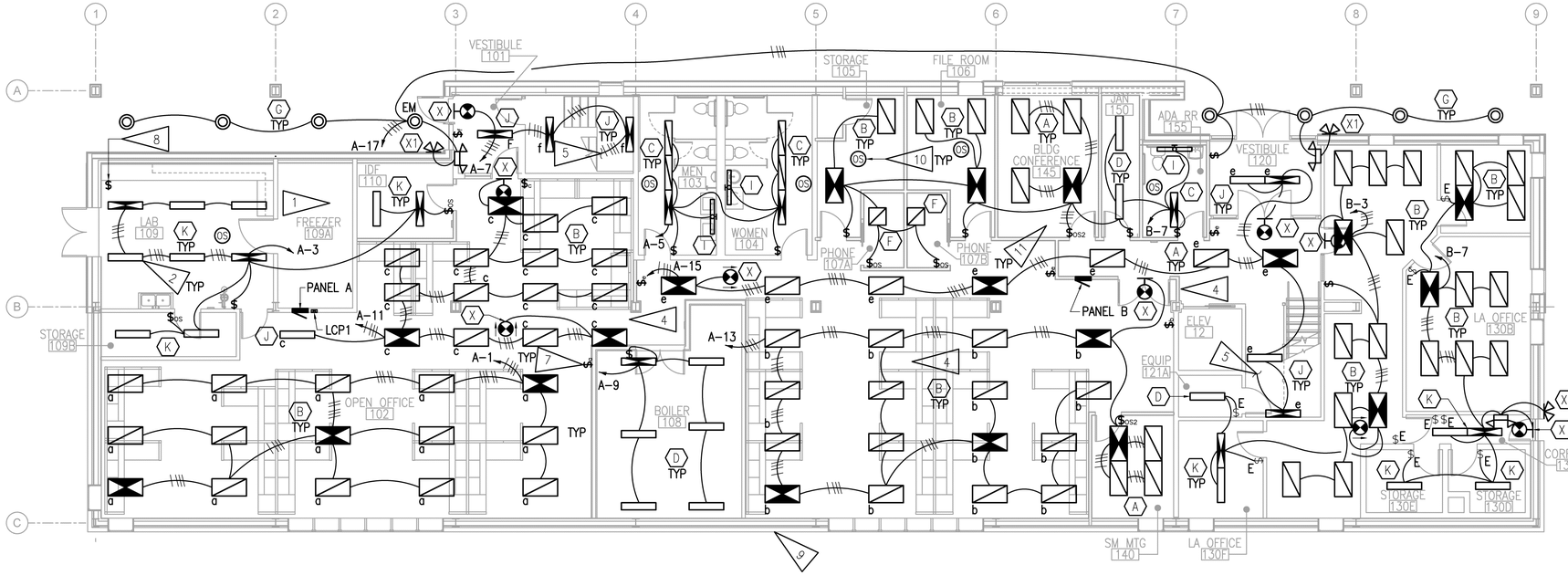
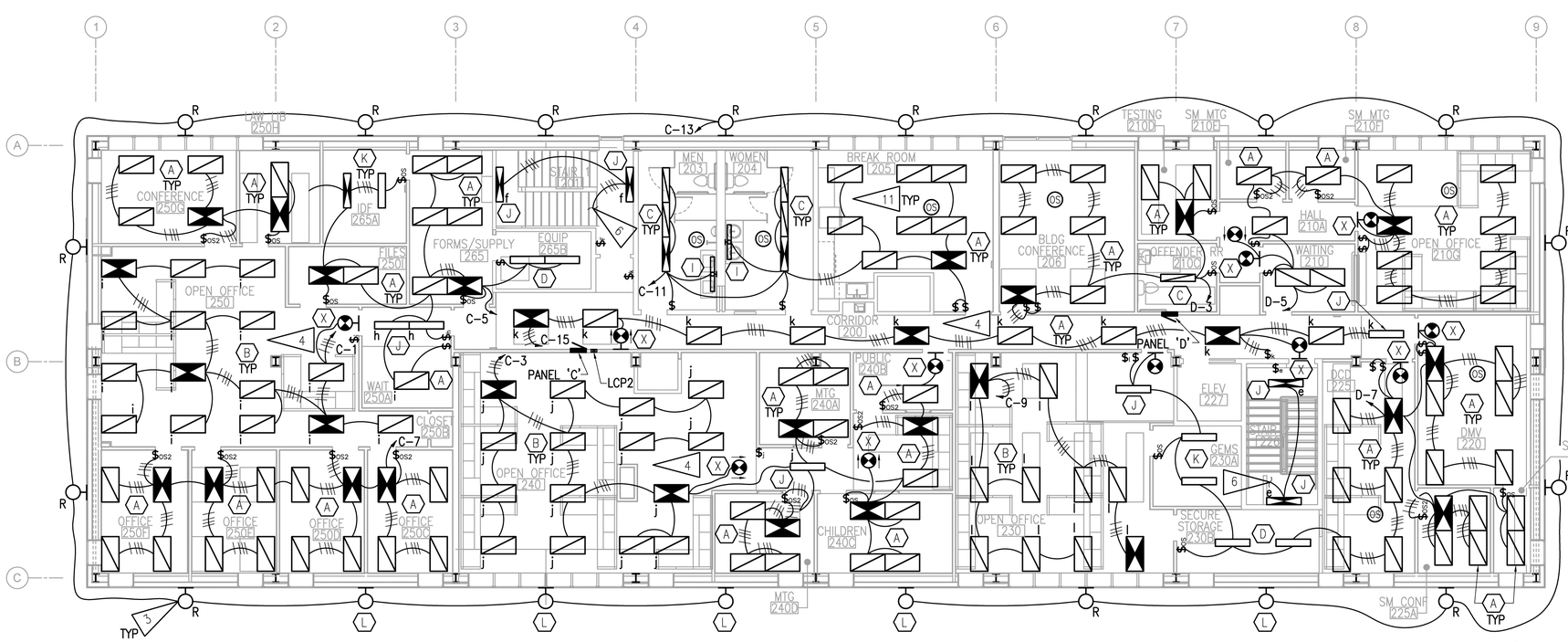
Enlarged Boiler Room Demo Plan

E1.3



1 1ST FLOOR LIGHTING REMODEL PLAN

1/8"=1'-0"



2 2ND FLOOR LIGHTING REMODEL PLAN

1/8"=1'-0"

SHEET NOTES:

1. LIGHTING FOR FREEZER PROVIDED UNDER DIVISION 132126 AND INSTALLED UNDER DIVISION 26. COORDINATE EXACT LIGHTING REQUIREMENTS WITH SUPPLIER PRIOR TO BID.
2. PROVIDE EMERGENCY BATTERY BALLAST IN LIGHTING FIXTURES AS SHOWN. BALLAST SHALL BE CAPABLE OF 1100 LUMENS FOR 90 MIN.
3. RELOCATED LIGHT FIXTURE. PROVIDE EXTENSION OF AND CONDUIT AND WIRE AND CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT.
4. OPEN OFFICES, CORRIDORS AND COMMON AREA LIGHTING TO BE CONTROLLED BY LIGHTING CONTROL PANELS. CONNECT TO DDC FOR TIME SCHEDULE WITH LOCAL SWITCH OVERRIDE.
5. CONTINUES UP TO TYPE 'J' FIXTURE IN STAIRWAY ABOVE. SEE 2/E2.1.
6. CONTINUES DOWN TO TYPE 'J' FIXTURE IN STAIRWAY BELOW. SEE 1/E2.1.
7. LOW VOLTAGE MOMENTARY CONTACT SWITCH FOR CONNECTION TO LIGHTING CONTROL PANELS. SEE SCHEDULE ON SHEET E6.2.
8. PROVIDE 20, 1P CIRCUIT FOR CONNECTION OF FUME HOOD LIGHTS. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
9. PROVIDE (8EA) TYPE 'D' LIGHT FIXTURE IN BUILDING BASEMENT. FIXTURES SHALL BE SPACED EVENLY, SUCH AS TO UNIFORMLY ILLUMINATE THE SPACE. PROVIDE CONDUIT AND CONDUCTORS AND CONNECT TO CIRCUIT 'A-21'
10. FOR SINGLE LEVEL BALLAST, PROVIDE CEILING MOUNTED OCCUPANCY SENSOR WITH MANUAL SWITCH. SEQUENCE OF OPERATION SHALL BE: MANUALLY TURN ON OR OFF LIGHTS BY SWITCH, AUTOMATICALLY EXTINGUISH AFTER 15 MINUTES UNOCCUPIED BY OCCUPANCY SENSOR.
11. FOR ROOMS WITH STEMP-DIMMING FIXTURES, PROVIDE OCCUPANCY SENSOR WITH DUAL RELAYS, SEQUENCE OF OPERATION SHALL BE: MANUALLY TURN ON OR OFF LIGHTS LOW LEVEL (SWITCH #1) OR HIGH LEVEL (SWITCH #1 AND SWITCH #2). AUTOMATICALLY EXTINGUISH LIGHTS AFTER 15 MINUTES UNOCCUPIED (OCCUPANCY SENSOR).

REVISIONS

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Nome State Office Building Remodel

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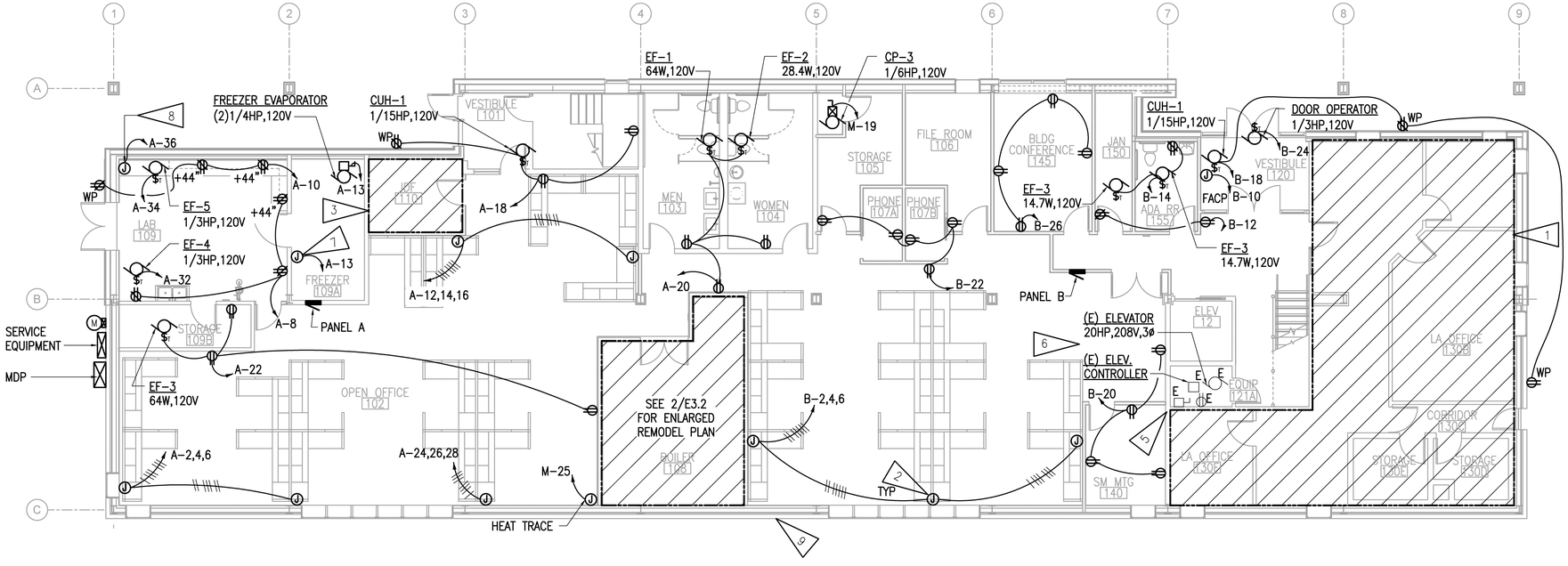
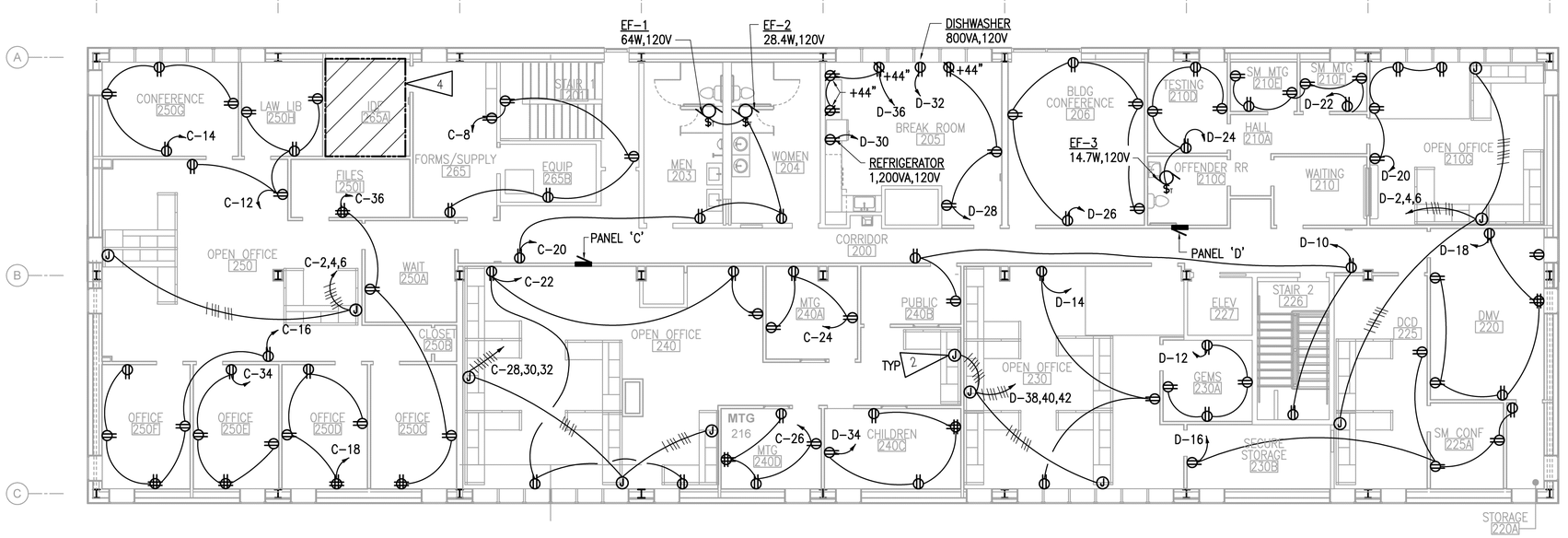
Lighting Remodel Plans

E2.1



1 1ST FLOOR POWER REMODEL PLAN

1/8"=1'-0"



2 2ND FLOOR POWER REMODEL PLAN

1/8"=1'-0"

SHEET NOTES:

1. EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN THIS AREA. CONTRACTOR SHALL PROVIDE NEW HOMERUNS FOR EXISTING CIRCUITS TO NEW PANEL 'B'. SEE PANEL SCHEDULE ON E6.2.
2. PROVIDE POWER CONNECTION FOR SYSTEM FURNITURE.
3. SEE 1/E3.3 FOR ENLARGED IDF ROOM PLAN.
4. SEE 2/E3.3 FOR ENLARGED IDF ROOM PLAN.
5. ELEVATOR CAB POWER TO REMAIN. PROVIDE NEW HOMERUN TO CIRCUIT 'B-11'.
6. ELEVATOR EQUIPMENT TO REMAIN. PROVIDE NEW FEEDER TO MDP. SEE 1/E5.1.
7. NEW FREEZER CONNECTION FOR POWER AND LIGHTING. COORDINATE WITH FREEZER REQUIREMENT FOR EXACT CONNECTION REQUIREMENTS.
8. PROVIDE CONNECTION FOR FUME HOOD. SEE MECHANICAL FOR DETAILS.
9. PROVIDE (2) DUPLEX RECEPTACLES IN BUILDING BASEMENT AT SEPARATE, EASILY ACCESSIBLE LOCATIONS. CONNECT TO CIRCUIT 'A-38'.

REVISIONS

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STATE OF ALASKA — TIMOTHY E. HALL — EE-9131 — 12/13/13 — REGISTERED PROFESSIONAL ENGINEER

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Nome State Office Building Remodel

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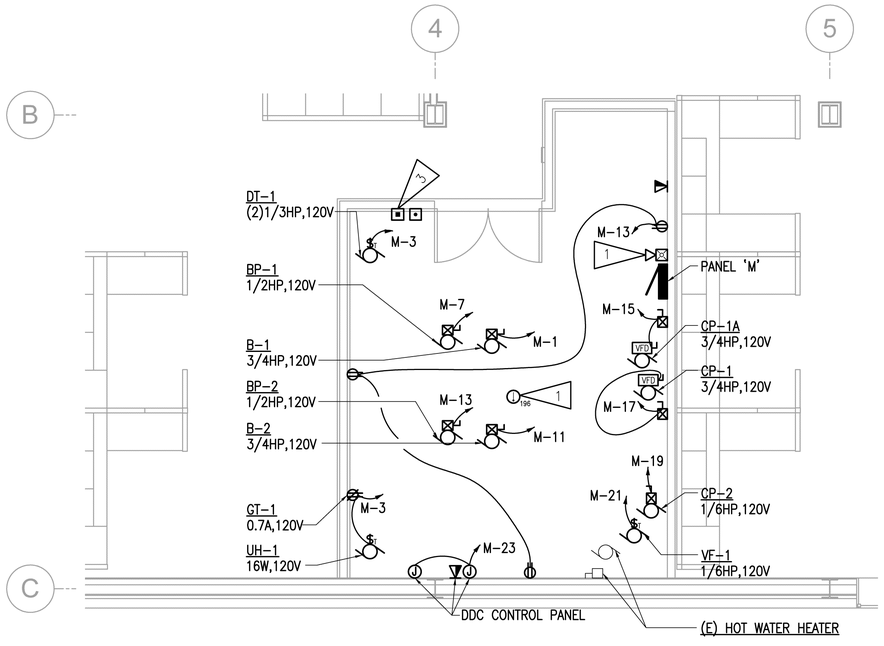
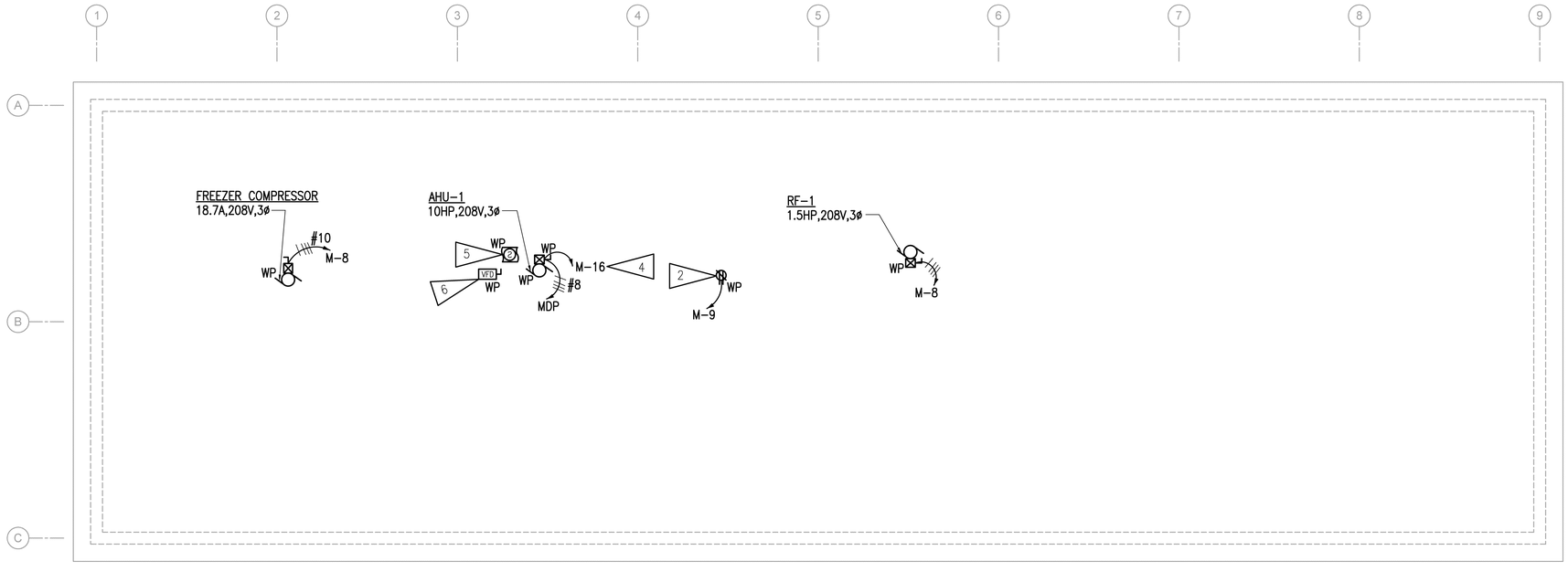
Power Remodel Plans

E3.1



2 ENLARGED BOILER ROOM REMODEL PLAN

1/4"=1'-0"



1 ROOF POWER AND SIGNAL REMODEL PLAN

1/8"=1'-0"

SHEET NOTES:

1. NEW FIRE ALARM DEVICE. PROVIDE NEW CONDUIT AND INSTALL NEW CONDUCTORS FROM NEW DEVICE TO NEW FIRE ALARM CONTROL PANEL. FIELD-VERIFY EXACT LOCATION PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH MECHANICAL/ELECTRICAL EQUIPMENT.
2. PROVIDE AND INSTALL WEATHER-PROOF, GFCI RECEPTACLE. MOUNT +24" MINIMUM ABOVE ROOF. FIELD COORDINATE WITH MECHANICAL FOR EXACT LOCATION PRIOR TO ROUGH-IN.
3. PROVIDE BOILER SHUTDOWN EMERGENCY PUSH BUTTON. FOR RELAYS, CONTACTORS AND ALL EQUIPMENT REQUIRED FOR EMERGENCY SHUTDOWN OF EQUIPMENT PER IMC REQUIREMENTS.
4. PROVIDE 20A, 1P CIRCUIT FOR AHU-1 LIGHTING CONNECTION. SEE MECHANICAL FOR DETAILS.
5. PROVIDE DUCT-TYPE DETECTOR FOR AHU-1 AND CONNECT TO FIRE ALARM SYSTEM SIGNALING LINE CIRCUIT. PROVIDE REMOTE TEST SWITCH IN ACCESSIBLE LOCATION. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
6. VFD FOR RF-1 IN AHU-1 ENCLOSURE. PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26. COORDINATE WITH MECHANICAL FOR CONNECTION REQUIREMENTS.

REVISIONS

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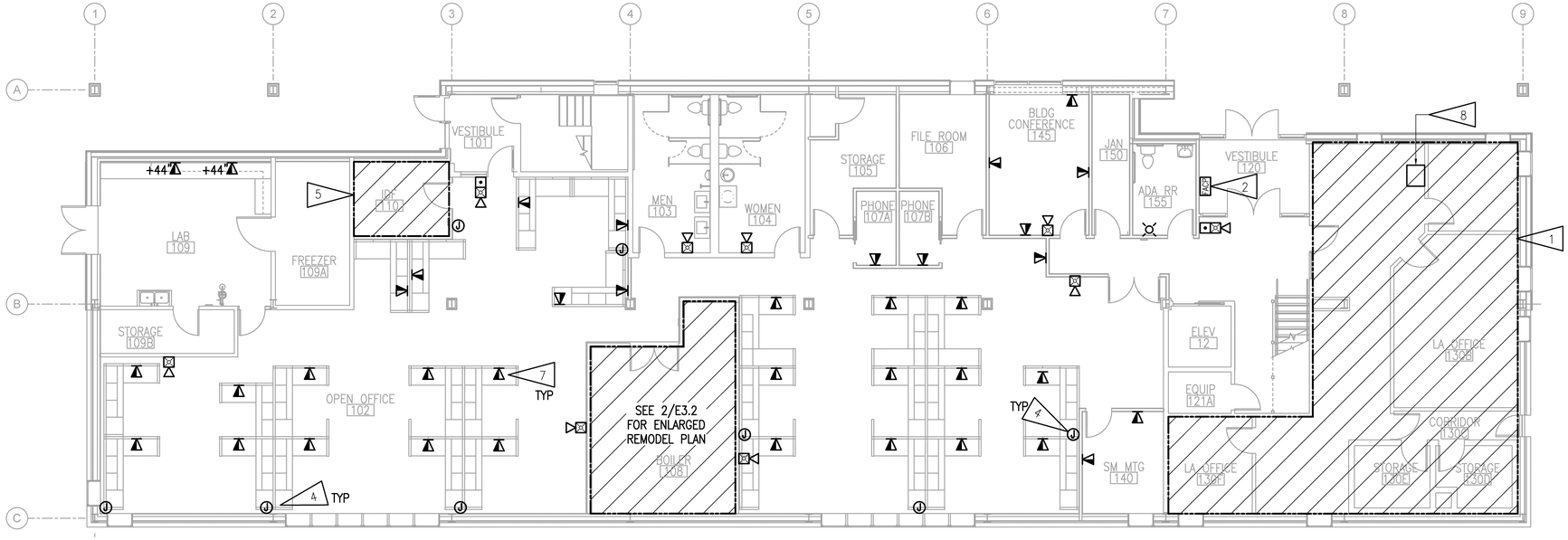
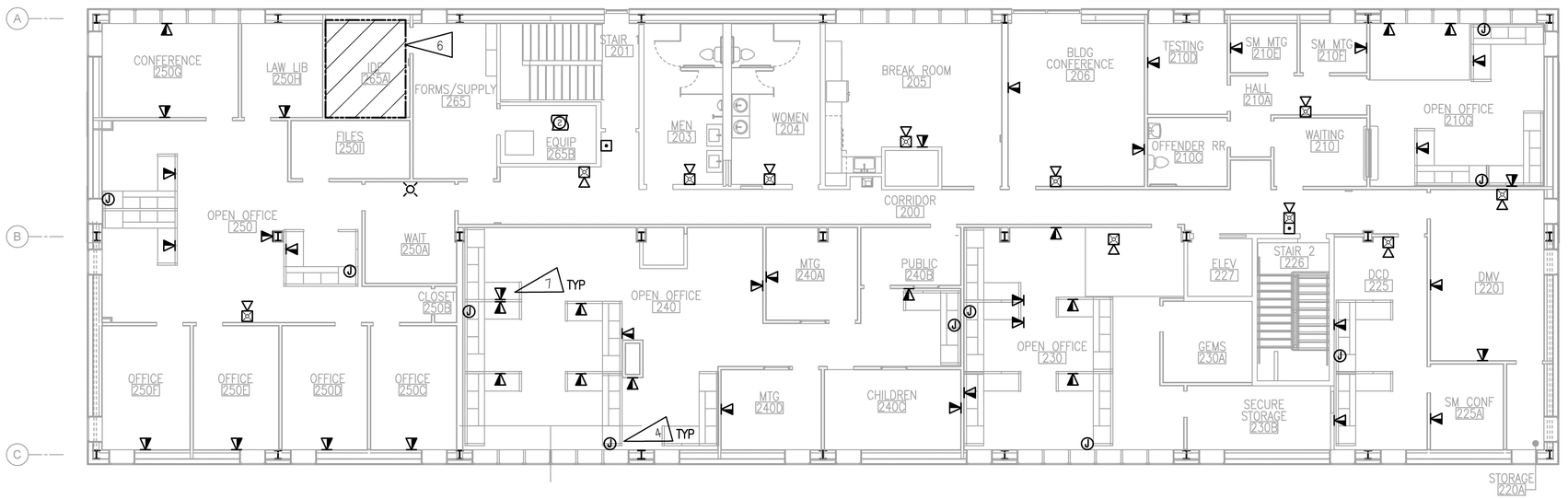
Roof & Enlarged Boiler Rm. Plans

E3.2



1 1ST FLOOR SIGNAL REMODEL PLAN

1/8"=1'-0"



2 2ND FLOOR SIGNAL REMODEL PLAN

1/8"=1'-0"

SHEET NOTES:

1. EXISTING EQUIPMENT TO REMAIN IN THIS AREA.
2. NEW FIRE ALARM CONTROL PANEL.
3. NEW FIRE ALARM DEVICE. PROVIDE NEW CONDUIT AND INSTALL NEW CONDUCTORS FROM NEW DEVICE TO NEW FIRE ALARM CONTROL PANEL. FIELD-VERIFY EXACT LOCATION PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH MECHANICAL/ELECTRICAL EQUIPMENT.
4. PROVIDE TELECOMMUNICATIONS CONNECTION FOR SYSTEM FURNITURE. PROVIDE CONDUIT FROM JUNCTION/PULL BOX SHOWN STUBBED UP TO ACCESSIBLE CEILING AND FLEXIBLE CONDUIT CONNECTION FROM JUNCTION/PULL BOX SHOWN TO SYSTEM FURNITURE SIZED PER PROVISIONS OF 26 05 33.
5. SEE 1/E4.2 FOR ENLARGED IDF ROOM PLAN.
6. SEE 2/E4.2 FOR ENLARGED IDF ROOM PLAN.
7. PROVIDE TELECOMMUNICATIONS OUTLETS IN SYSTEM FURNITURE AS SHOWN. RUN CABLING FROM OUTLETS TO PATCH PANELS IN TELECOMMUNICATIONS RACKS THROUGH SYSTEM FURNITURE AND BUILDING TELECOMMUNICATIONS PATHWAYS AS REQUIRED BY 27 10 00.
8. PROVIDE 6-FIBER MULTI-MODE FIBER OPTIC CABLE TO CONNECT EXISTING SERVER EQUIPMENT IN LEGISLATIVE AFFAIRS TO EQUIPMENT PATCH PANEL IN IDF 121.

REVISIONS

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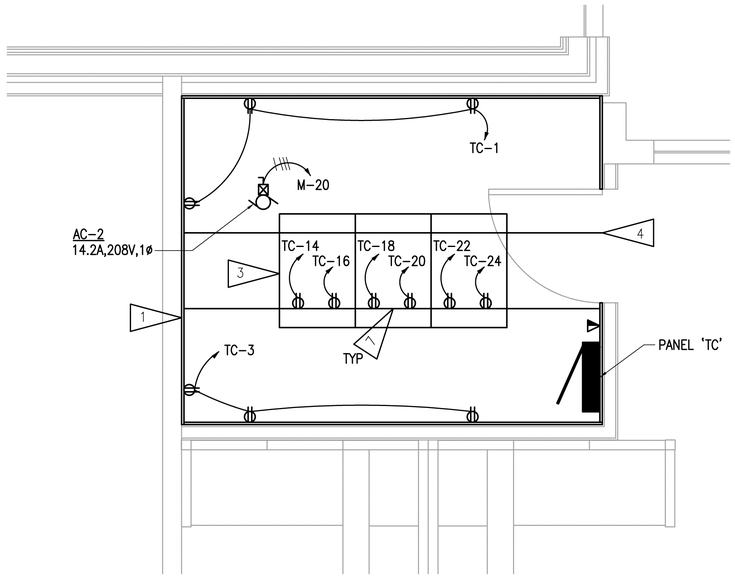
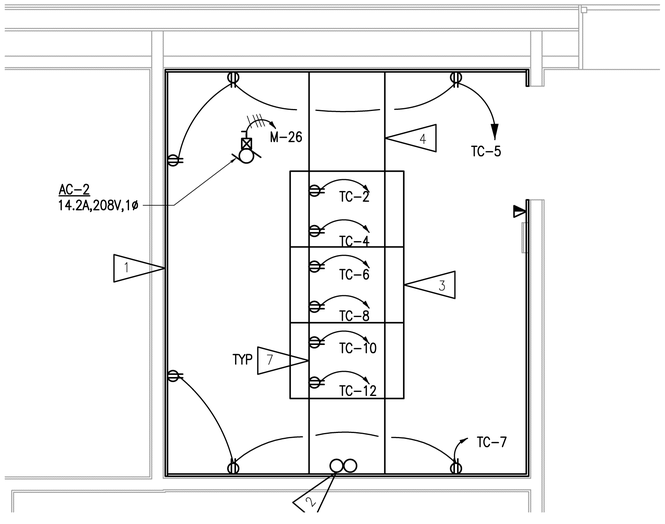
Signal Remodel Plans

E4.1



1 ENLARGED IDF ROOM 110 REMODEL PLAN

1/2"=1'-0"

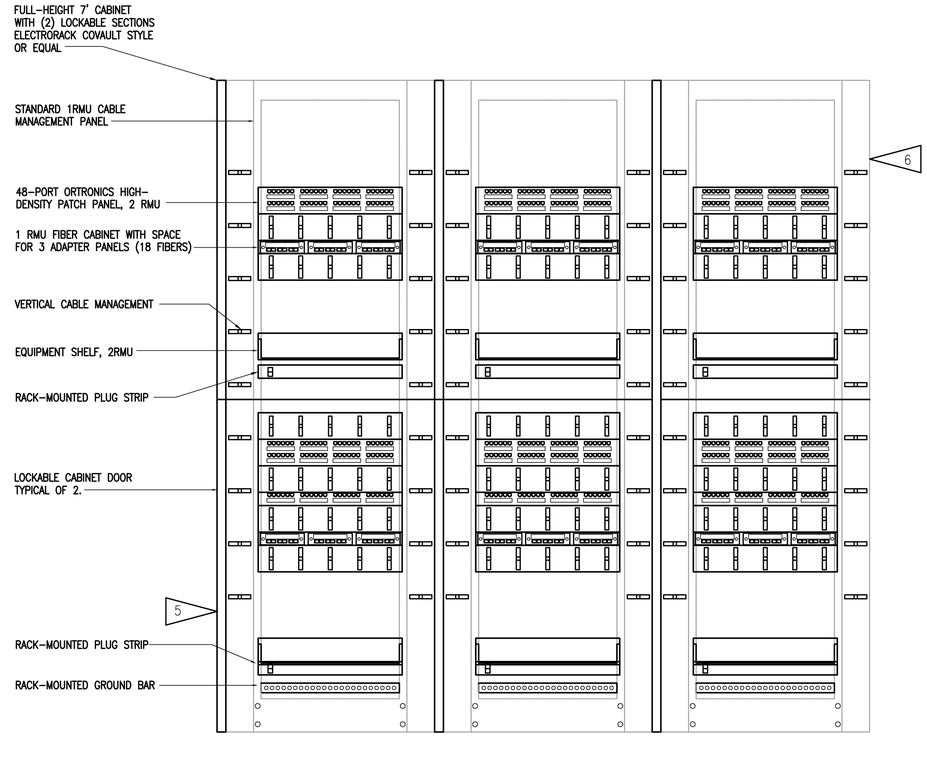


2 ENLARGED IDF ROOM 265A REMODEL PLAN

1/4"=1'-0"

SHEET NOTES:

1. WALLS SHALL BE 3/4" AC TYPE FIRE RETARDANT PLYWOOD ALL WALLS TO 8' ABOVE FLOOR LEVEL. COORDINATE WITH ARCHITECTURAL.
2. PROVIDE CORE DRILL FLOOR IN IDF 228 AND PROVIDE (2) 4" CO SLEEVES TO IDF 121.
3. 19" WIDE 84" HIGH DUAL COMPARTMENT LOCKABLE TELECOMMUNICATIONS CABINETS. SEE 1/E5.2 FOR DETAILS
4. 18" X 2" CABLE TRAY.
5. PROVIDE DUAL COMPARTMENT CO-LOCATION EQUIPMENT CABINET. ELECTRORACK COVAULT OR APPROVED EQUAL. TYPICAL OF 2 RACKS EACH CLOSET. PROVIDE 22 RU FOR EACH TENANT SPACE, TYPICAL OF 4.
6. PROVIDE FULL HEIGHT LOCKABLE EQUIPMENT CABINET FOR ETS CHATSWORTH MEGAFRAME OR APPROVED EQUAL.
7. MOUNT QUADRAPLEX OUTLETS TO BOTTOM OF CABLE TRAY ABOVE EACH RACK SECTION.



3 TYPICAL TELECOMMUNICATIONS CABINET DETAIL

1/2"=1'-0"

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Enlarged Signal Plans and Detail

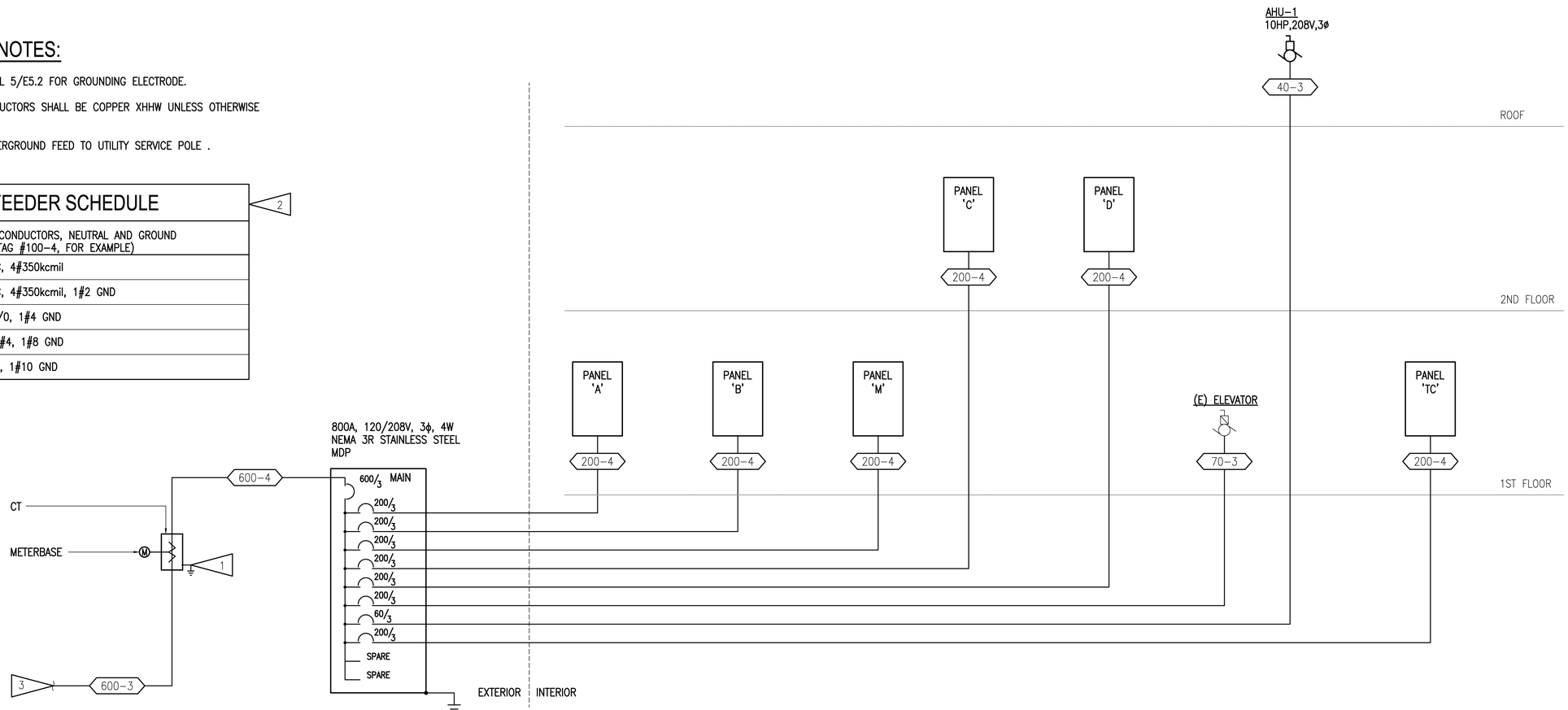
E4.2

SHEET NOTES:

1. SEE DETAIL 5/E5.2 FOR GROUNDING ELECTRODE.
2. ALL CONDUCTORS SHALL BE COPPER XHHW UNLESS OTHERWISE NOTED.
3. NEW UNDERGROUND FEED TO UTILITY SERVICE POLE .

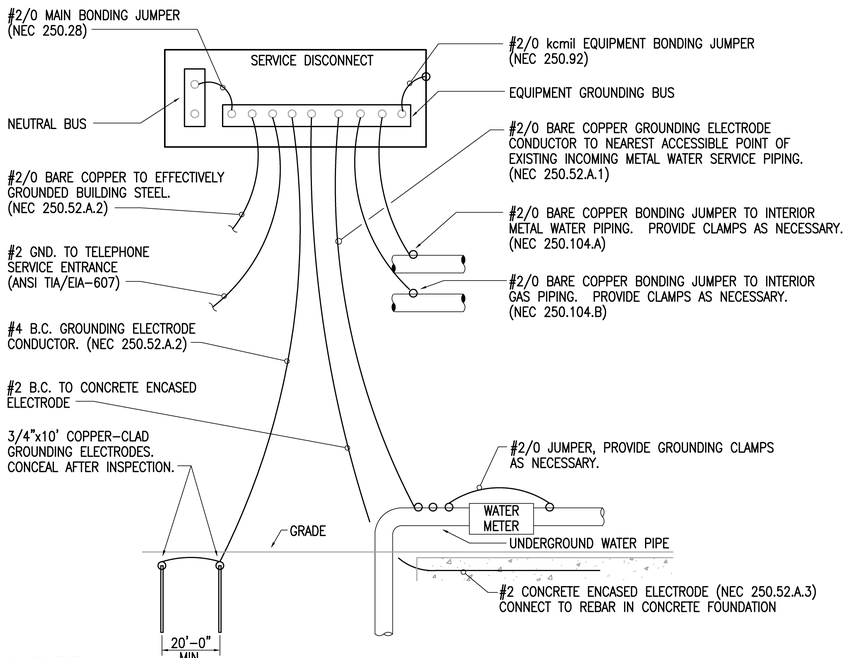
FEEDER SCHEDULE

FEEDER TAG	3 PHASE CONDUCTORS, NEUTRAL AND GROUND (TAG #100–4, FOR EXAMPLE)
600–3	(2EA) 3"C, 4#350kcmil
600–4	(2EA) 3"C, 4#350kcmil, 1#2 GND
200–4	2"C, 4#2/0, 1#4 GND
70–3	1.25"C, 3#4, 1#8 GND
40–3	1."C, 3#8, 1#10 GND



1 POWER ONE-LINE

N/A



2 GROUNDING DETAIL

N/A

REVISIONS

No	Description	Date

STATE OF ALASKA
TIMOTHY E. HALL
EE–9131
12/13/13
REGISTERED PROFESSIONAL ENGINEER

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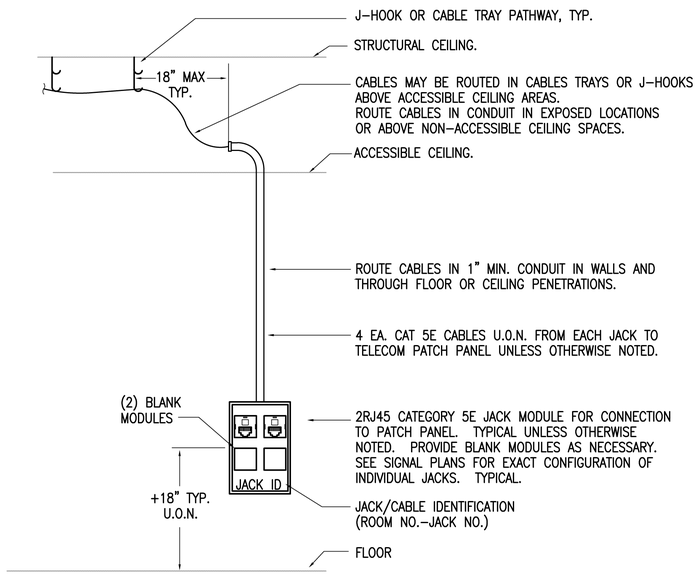
Bid Set
December 13, 2013

Electrical Power One-Line

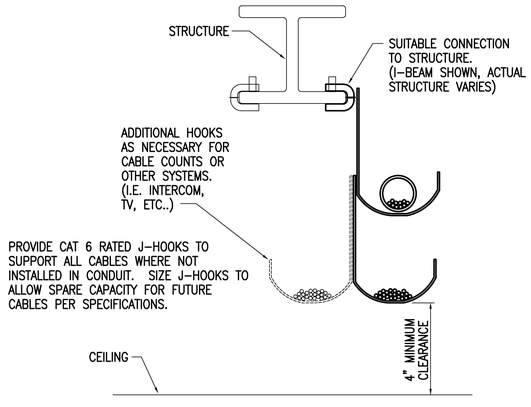
E5.1



NOTE: SEE SIGNAL PLANS FOR EXACT NUMBER AND LOCATION OF ALL TELE/DATA OUTLETS.

1 TELECOMMUNICATIONS JACK DETAIL

NO SCALE



DETAIL NOTES

1. PROVIDE CONTINUOUS J–HOOK SUPPORT FOR ALL CABLING NOT REQUIRED TO BE INSTALLED IN CONDUIT AND WHERE RACEWAYS ARE NOT PROVIDED.
2. SEE THE SPECIFICATIONS FOR J–HOOK RATINGS, SPACING CRITERIA AND SPARE CAPACITY REQUIREMENTS.
3. PROVIDE SPECIFIC MOUNTING HARDWARE FOR SUPPORT TO STRUCTURE TYPES AS NECESSARY. J–HOOKS SHALL BE INSTALLED VERTICALLY AS SHOWN.

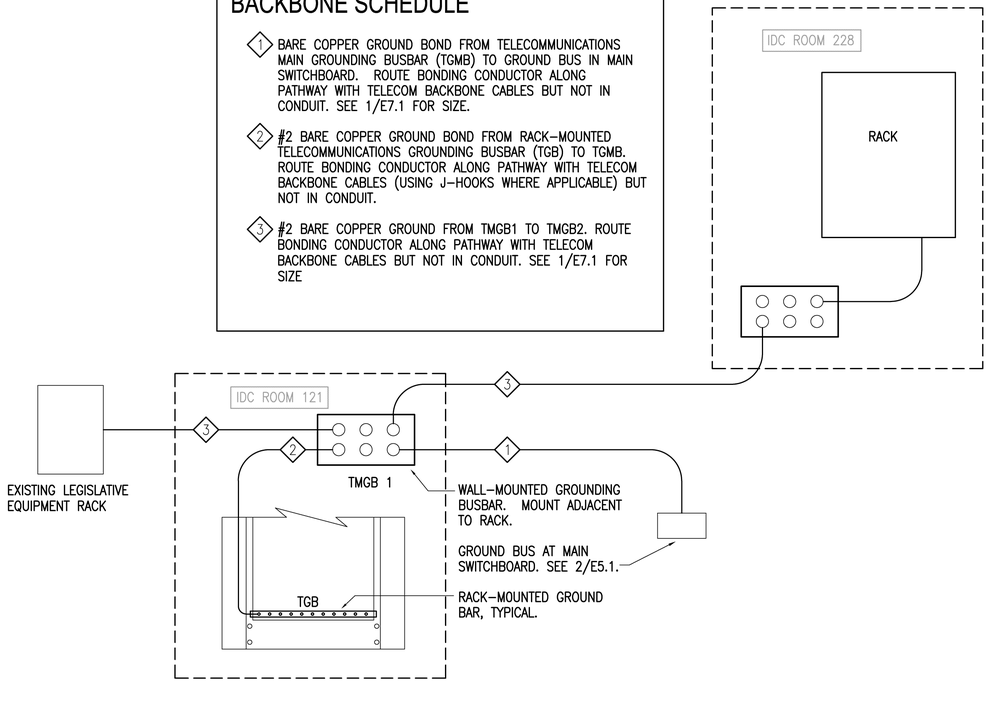
2 J-HOOK SUPPORT DETAIL

NO SCALE

SEE PLANS FOR SPECIFIC LOCATIONS OF MAIN SWITCHBOARD AND ALL TELECOM RACKS.

TELECOMMUNICATIONS BONDING BACKBONE SCHEDULE

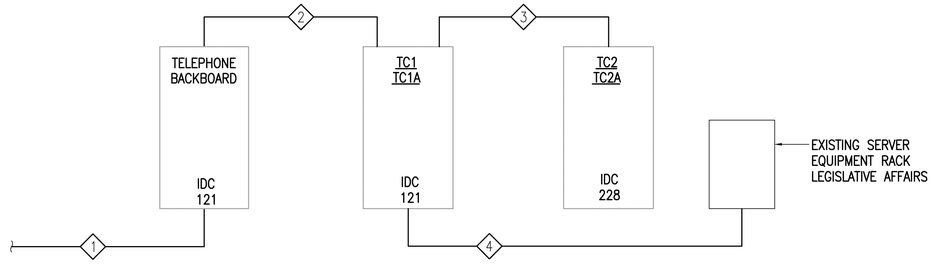
1. BARE COPPER GROUND BOND FROM TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TGMB) TO GROUND BUS IN MAIN SWITCHBOARD. ROUTE BONDING CONDUCTOR ALONG PATHWAY WITH TELECOM BACKBONE CABLES BUT NOT IN CONDUIT. SEE 1/E7.1 FOR SIZE.
2. #2 BARE COPPER GROUND BOND FROM RACK–MOUNTED TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) TO TGMB. ROUTE BONDING CONDUCTOR ALONG PATHWAY WITH TELECOM BACKBONE CABLES (USING J–HOOKS WHERE APPLICABLE) BUT NOT IN CONDUIT.
3. #2 BARE COPPER GROUND FROM TMGB1 TO TMGB2. ROUTE BONDING CONDUCTOR ALONG PATHWAY WITH TELECOM BACKBONE CABLES BUT NOT IN CONDUIT. SEE 1/E7.1 FOR SIZE



3 TELECOMMUNICATIONS SYSTEM GROUNDING DETAIL

NO SCALE

TELECOMMUNICATIONS / GROUNDING BACKBONE SCHEDULE	
TAG	BACKBONE
1	(1) 4"C WITH TELEPHONE UTILITY CABLE
2	(2) 25–PAIR TELEPHONE BACKBONE CABLES (1) #2 TELECOMMUNICATIONS BONDING BACKBONE CONDUCTOR
3	(1) 12–FIBER BACKBONE CABLE IN 1" INNERDUCT. (2) 25–PAIR TELEPHONE BACKBONE CABLES (1) #2 TELECOMMUNICATIONS BONDING BACKBONE CONDUCTOR
4	(1) 6–FIBER BACKBONE CABLE IN 1" INNERDUCT. (1) 25–PAIR TELEPHONE BACKBONE CABLE (1) #2 TELECOMMUNICATIONS BONDING BACKBONE CONDUCTOR



4 TELECOMMUNICATIONS SYSTEM BACKBONE DETAIL

NO SCALE

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

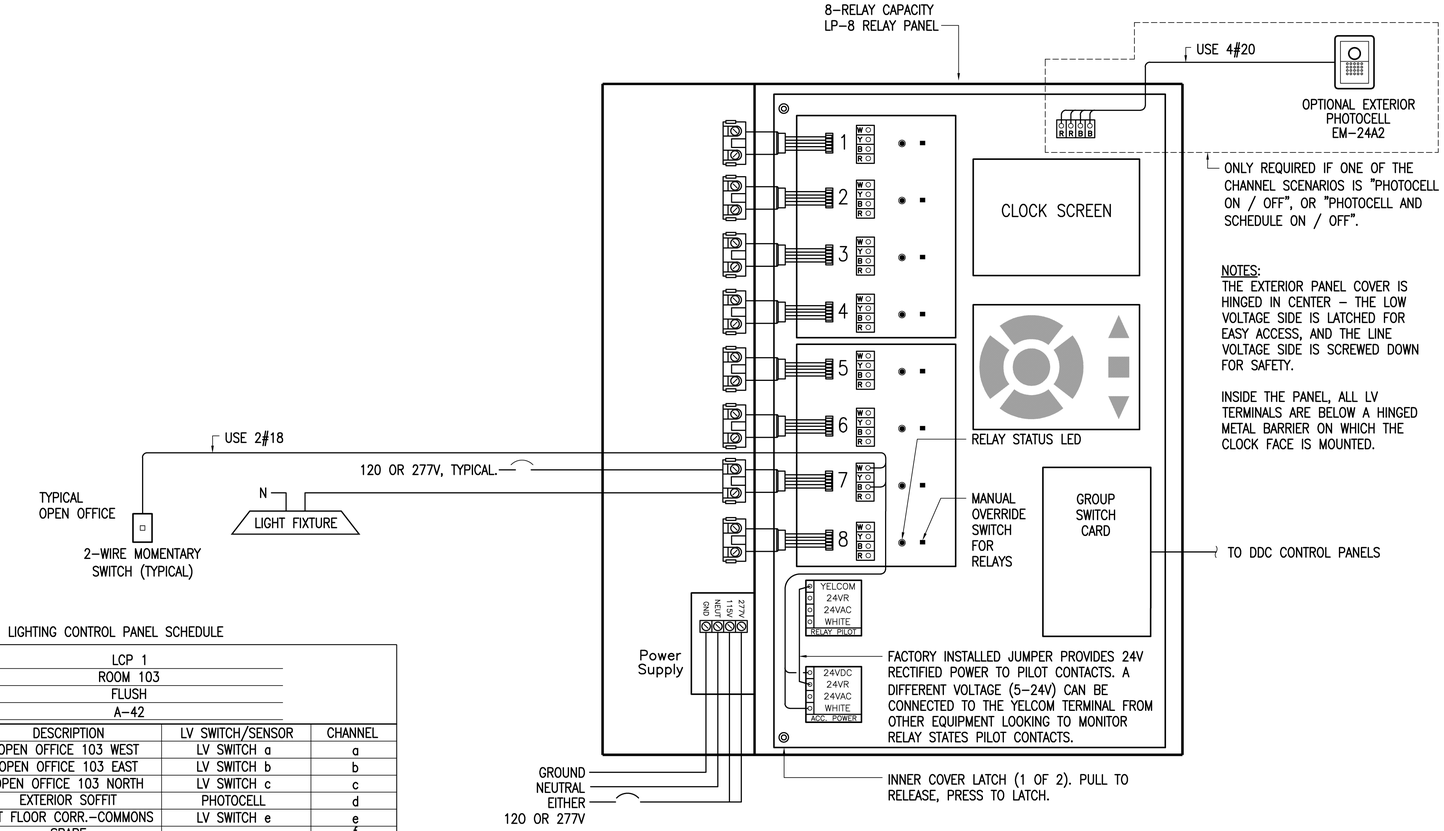
Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Electrical
Telecom Details

E5.2



NOTES:
THE EXTERIOR PANEL COVER IS HINGED IN CENTER – THE LOW VOLTAGE SIDE IS LATCHED FOR EASY ACCESS, AND THE LINE VOLTAGE SIDE IS SCREWED DOWN FOR SAFETY.

INSIDE THE PANEL, ALL LV TERMINALS ARE BELOW A HINGED METAL BARRIER ON WHICH THE CLOCK FACE IS MOUNTED.

LIGHTING CONTROL PANEL SCHEDULE

LCP NAME:	LCP 1
LOCATION:	ROOM 103
SURFACE/FLUSH:	FLUSH
POWER CIRCUIT:	A-42

RELAY #	CIRCUIT	DESCRIPTION	LV SWITCH/SENSOR	CHANNEL
1	A-1	OPEN OFFICE 103 WEST	LV SWITCH a	a
2	A-13	OPEN OFFICE 103 EAST	LV SWITCH b	b
3	A-11	OPEN OFFICE 103 NORTH	LV SWITCH c	c
4	A-17	EXTERIOR SOFFIT	PHOTOCELL	d
5	A-15	1ST FLOOR CORR.-COMMONS	LV SWITCH e	e
6		SPARE		f
7		SPARE		g
8		SPARE		h

LCP NAME:	LCP 2
LOCATION:	ROOM 202
SURFACE/FLUSH:	FLUSH
POWER CIRCUIT:	C-42

RELAY #	CIRCUIT	DESCRIPTION	LV SWITCH/SENSOR	CHANNEL
1	C-1	OPEN OFFICE 207	LV SWITCH i	i
2	C-3	OPEN OFFICE 219	LV SWITCH j	j
3	C-15	2ND FLOOR CORR.-COMMONS	LV SWITCH k	k
4	C-9	OPEN OFFICE 223	LV SWITCH l	l
5	C-13	EXTERIOR	PHOTOCELL	m
6		SPARE		
7		SPARE		
8		SPARE		

LCP CHANNEL AUTOMATION SCHEDULE

CHANNEL	SCENARIO*	SCENARIO TIMES	BLINK	TIME DELAY
a	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
b	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
c	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
d	2	ON/OFF WITH PHOTOCELL		
e	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
f				
g				
h				
i	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
j	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
k	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
l	1	OFF AT 1700 HRS	15 MINUTES	1 HOUR
m	2	ON/OFF WITH PHOTOCELL		

OPTIONAL:
GS-4 GROUP SWITCH MODULE (FOR UP TO 4 CHANNELS)

SPECIFICATIONS:
PROVIDE A SINGLE RELAY PANEL WITH UP TO 8 RELAYS. EACH RELAY TO BE INDIVIDUALLY SCHEDULED THROUGH AN EASY TO USE INTEGRAL CLOCK WITH A BACKLIT 8-LINE LCD DISPLAY. RELAYS ARE TO BE SPST 20 AMP RATED, MECHANICALLY HELD CONTACTORS CAPABLE OF SWITCHING EITHER 120 OR 277VAC LOADS. MOUNTED NEXT TO EACH RELAY SHOULD BE A LED TO ANNUNCIATE STATUS AND A PUSHBUTTON TO TOGGLE THE RELAY'S STATE. PANEL SHALL HAVE A MULTITAP TRANSFROMER AND ACCEPT EITHER 120V OR 277V FOR POWER.

PANEL ENCLOSURE TO BE NEMA 1, RATED FOR ENVIRONMENTS FROM 32 – 139°F, 5 – 95% RH NON-CONDENSING. PANEL TO COME WITH A SPLIT COVER HINGED IN THE CENTER SUCH THAT THE HIGH VOLTAGE SIDE MUST BE UNSCREWED TO ACCESS THE RELAYS, BUT THE LOW VOLTAGE SIDE CAN BE OPENED VIA A LOCKING LATCH. SURFACE OR FLUSH COVERS SHALL BE AVAILABLE.

EACH RELAY CAN BE CONTROLLED REMOTELY BY EXTERNAL SWITCHES OR MOTION DETECTORS. SWITCHES CAN BE 2- OR 3-WIRE, MOMENTARY OR MAINTAINED LOW VOLTAGE DEVICES. MOTION DETECTORS MUST PROVIDE A 24VDC PILOT SIGNAL TO CONTROL THE RELAYS. PANEL MUST BE ABLE TO INTERLOCK TIME BASED SCHEDULES WITH THE OCCUPANCY SENSOR INPUT, SO THAT LIGHTS SCHEDULED ON DURING THE DAY ARE NOT AFFECTED BY THE MOTION DETECTOR, BUT AFTER HOURS THE OCCUPANCY SENSOR HAS CONTROL OR THE RELAY. PANEL SHALL BE CAPABLE OF BLINK WARNING BEFORE "OFF" AND TRUE AFTER HOURS TIME DELAY.

ALL PROGRAMMING TO BE ENTERED VIA A SIMPLE KEYPAD. EACH RELAY CAN BE PROGRAMMED INDEPENDENTLY, OR RELAYS CAN BE GROUPED TOGETHER IN FIRMWARE TO FOLLOW THE SAME CHANNEL SCHEDULE. ON A DAILY 7-DAY REPEATING BASIS, RELAYS CAN BE ASSIGNED TO FOLLOW ANY OF THE FOLLOWING SCENARIOS:

(1) MANUAL ON / SCHED OFF
(2) SCHEDULED ON/OFF
(3) MANUAL ON / AS SWITCH OFF (FOR USE WITH AS-100 SWITCHES)
(4) PHOTOCELL ON/OFF
(5) PHOTO & SCHED ON/OFF
(6) ASTRONOMIC ON/OFF
(7) ASTRO AND SCHED ON/OFF

THE LCD SCREEN SHOULD NORMALLY SHOW THE CURRENT TIME AND DATE, AS WELL AS SUNRISE AND SUNSET TIMES FOR THAT DAY. RELAY CHANNELS CAN ALSO BE MONITORED FROM THE DISPLAY TO SEE THEIR STATUS – EITHER ON, OFF, OR MIXED. ADDITIONALLY THE RELAY GROUPS CAN BE OVERRIDEN FROM THE SCREEN. CONTEXT SENSITIVE HELP SHALL BE AVAILABLE FOR EACH SCREEN.

PANEL TO BE THE WATT STOPPER'S (800-852-2778) LP8 PANEL AND MUST BE UL LISTED 916, MEET LOCAL ENERGY CODES (CALIFORNIA CEC), AND HAVE A 1 YEAR WARRANTY.

*SCENARIO LISTINGS

(1) MANUAL ON / SCHED OFF / MANUAL 1 HR OVERRIDE
(2) PHOTOCELL

1 LIGHTING CONTROL DETAIL
NO SCALE

REVISIONS

No	Description	Date

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Lighting Control Details

E5.3

ELECTRICAL LOAD CALCULATION:

PROJECT: **NOME STATE OFFICE BUILDING REMODEL**
NOME, ALASKA
DATE : **12/13/2013**

EXISTING DEMAND LOAD (NEC 220.87)			
RECEPTACLES EXISTING PER NEC 220.14, 1VA/SQ.FT.	1,228	VA	
PER NEC 220.87 (125%)	1,535	VA	
EXISTING DEMAND LOAD			**1,535 VA**
NEW RECEPTACLE LOAD			
RECPS AT 180VA:	27,120	VA	
MODULAR FURNITURE	12,600	VA	
			39,720 VA
NEW RECEPTACLE LOAD (PER NEC TABLE 220.44)			
10,000 VA @ 100%	10,000	VA	
29,720 VA @ 50%	14,860	VA	
			24,860 VA
LIGHTING LOAD			
TOTAL NEW LIGHTING LOAD	17,482	VA	
PER NEC 215.2 (125%)	21,853	VA	
			21,853 VA
MECHANICAL LOAD			
AHU, 10HP,208V,3-PHASE	11,592	VA	
AC-1,2, 14.2FLA,120V,EA	3,408	VA	
B-1,2, 3/4HP,120V,EA	3,312	VA	
BP-1,2, 1/2HP,120V,EA	2,352	VA	
CP-1,1A, 3/4HP,120V,EA	3,312	VA	
CP-2,3, 1/6HP,120V,EA	1,056	VA	
CUH-1, 1/15HP,120V, 2 EA	499	VA	
EF-1, 64W,120V,2 EA	128	VA	
EF-2, 28.4W,120V,3 EA	57	VA	
EF-3, 14.7W,120V,3 EA	44	VA	
EF-4,5, 1/3HP,120V,EA	1,728	VA	
GT-1, 0.7W,120V	84	VA	
RF-1, 1.5HP,208V,3-PHASE	2,484	VA	
UH-1, 16W,120V	16	VA	
VF-1, 1/6HP,120V	528	VA	
FREEZER COMPRESSOR, 18.7A,208V,3-PHASE	6,732	VA	
FREEZER EVAPORATOR, (2)1/4HP,120V	1,392	VA	
LARGEST MOTOR AT 125%	14,490	VA	
TOTAL NEW MISCELLANEOUS LOAD			**53,214 VA**
MISCELLANEOUS LOAD			
COPIER, 500W,120V,3 EA	1,500	VA	
COFFEE POT, 1,500W,120V,2 EA	3,000	VA	
REFRIGERATOR, 1,200W,120V	1,200	VA	
MICROWAVE OVEN, 1,200W,120V,2 EA	2,400	VA	
DDC CONTROL PANEL	1,200	VA	
HEAT TRACE	1,200	VA	
TOTAL NEW MISCELLANEOUS LOAD			**10,500 VA**
NET COMPUTED LOAD:			**111,962 VA**
111,962 VA*1.25 / 360 =	**389 A**		

MINIMUM 600A SERVICE REQUIRED.

PANEL 'M'

MFR/MODEL: SQUARE 'D' TYPE NQ — VOLTS: 120/208V,3PH,4W — ENCLOSURE: NEMA 1 — 225 A — MTG: SURFACE

NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	25	B-1	MOTR	1,660 828			MOTR	RF-1	15	3	2	
	3	1	30	DT-1	MOTR		1,730 828		MOTR	^^^	15	3	4	
	5	1	20	RECP-BOILER ROOM 108	RECP			540 828	MOTR	^^^	15	3	6	
	7	1	20	BP-1	MOTR	1,176 2,200			MOTR	FREEZER COMPRESSOR	40	3	8	
	9	1	20	RECP-ROOF	RECP		180 2,200		MOTR	^^^	40	3	10	
	11	1	25	B-2	MOTR			1,660 2,200	MOTR	^^^	40	3	12	
	13	1	20	BP-2	MOTR	1,176				SPARE	20	1	14	
	15	1	25	CP-1	MOTR		1,660		LTG	LTS-AHU-1	20	1	16	
	17	1	25	CP-1A	MOTR			1,660 1,392	MOTR	FREEZER EVAPORATOR	20	1	18	
	19	1	15	CP-3	MOTR	530 1,700			MOTR	AC-1	30	3	20	
	21	1	15	VF-1	MOTR		530 1,700		MOTR	^^^	30	3	22	
	23	1	20	SPARE				1,700	MOTR	^^^	30	3	24	
a	25	1	15	HEAT TRACE RAIN LEADER OUTFALL	MISC	550 1,700			MOTR	AC-2	30	3	26	
	27	1	15	DDC CONTROL PANELS	MISC		500 1,700		MOTR	^^^	30	3	28	
	29	1	20	SPARE				1,700	MOTR	^^^	30	3	30	
	31	1	20	SPARE						SPARE	20	1	32	
	33	1	20	SPARE						SPARE	20	1	34	
	35	1	20	SPARE						SPARE	20	1	36	
	37	1	20	SPARE						SPARE	20	1	38	
	39	1	20	SPARE						SPARE	20	1	40	
	41	1	20	SPARE						SPARE	20	1	42	
				TOTAL V-A		11,520	11,028	11,680		34,228 VA				
				TOTAL AMPS		96	92	97		95 A				
				A.I.C. RATING: 10,000										

	LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
CONNECTED LOAD IN KVA (THIS PANEL):	0.00	0.72	32.46	1.65	1.05	0.00	0.00	0.00	34.2 KVA	95 A
CONNECTED LOAD IN KVA (BRANCH PANELS):									0.0 KVA	0 A
TOTAL CONNECTED LOAD IN KVA:	0.00	0.72	32.46	1.65	1.05	0.00	0.00	0.00	34.2 KVA	95 A
DEMAND LOAD IN KVA:	0.00	0.72	32.46	1.65	1.05	0.00	0.00	0.00	35.9 KVA	100 A

PANEL NOTES:
a PROVIDE 30mA GFCI PROTECTION.
b
c
d
e

PANEL OPTIONS:
MAIN LUGS ONLY

PANEL 'TC'

MFR/MODEL: SQUARE 'D' TYPE NQ — VOLTS: 120/208V,3PH,4W — ENCLOSURE: NEMA 1 — 225 A — MTG: SURFACE

NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	RECP-110	RECP	540 360			RECP	SERVER RACKS 110	20	1	2	
	3	1	20	RECP-110	LTG		540 360		RECP	SERVER RACKS 110	20	1	4	
	5	1	20	RECP-265A	LTG			540 360	RECP	SERVER RACKS 110	20	1	6	
	7	1	20	RECP-265A	LTG	540 360			RECP	SERVER RACKS 110	20	1	8	
	9	1	20	SPARE			360		RECP	SERVER RACKS 110	20	1	10	
	11	1	20	SPARE				360	RECP	SERVER RACKS 110	20	1	12	
	13	1	20	SPARE		360			RECP	SERVER RACKS 265A	20	1	14	
	15	1	20	SPARE			360		RECP	SERVER RACKS 265A	20	1	16	
	17	1	20	SPARE				360	RECP	SERVER RACKS 265A	20	1	18	
	19	1	20	SPARE		360			RECP	SERVER RACKS 265A	20	1	20	
	21	1	20	SPARE			360		RECP	SERVER RACKS 265A	20	1	22	
	23	1	20	SPARE				360	RECP	SERVER RACKS 265A	20	1	24	
	25	1	20	SPARE						SPARE	20	1	26	
	27	1	20	SPARE						SPARE	20	1	28	
	29	1	20	SPARE						SPARE	20	1	30	
	31	1	20	SPARE						SPARE	20	1	32	
	33	1	20	SPARE						SPARE	20	1	34	
	35	1	20	SPARE						SPARE	20	1	36	
	37	1	20	SPARE						SPARE	20	1	38	
	39	1	20	SPARE						SPARE	20	1	40	
	41	1	20	SPARE						SPARE	20	1	42	
				TOTAL V-A		2,520	1,980	1,980		6,480 VA				
				TOTAL AMPS		21	17	17		18 A				
				A.I.C. RATING: 10,000										

	LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
CONNECTED LOAD IN KVA (THIS PANEL):	1.62	4.86	0.00	0.00	0.00	0.00	0.00	0.00	6.5 KVA	18 A
CONNECTED LOAD IN KVA (BRANCH PANELS):									0.0 KVA	0 A
TOTAL CONNECTED LOAD IN KVA:	1.62	4.86	0.00	0.00	0.00	0.00	0.00	0.00	6.5 KVA	18 A
DEMAND LOAD IN KVA:	2.03	4.86	0.00	0.00	0.00	0.00	0.00	0.00	6.9 KVA	19 A

PANEL NOTES:
a
b
c
d
e

PANEL OPTIONS:
MAIN LUGS ONLY

REVISIONS

No	Description	Date

STATE OF ALASKA — 49TH — TIMOTHY E. HALL — EE-9131 — 12/13/13 — REGISTERED PROFESSIONAL ENGINEER

DRAWINGS PREPARED BY:

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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Electrical Panel Schedules

E6.1

PANEL 'A'

MFR/MODEL: SQUARE 'D' TYPE NQ | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS						MTG: RECESSED					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A		B		C		TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	LTS-102	LTG	900	720					RECP	SYSTEM FURN. 102	20	1	2	
	3	1	20	LTS-109,109B,110	LTG			450	720			RECP	SYSTEM FURN. 102	20	1	4	
	5	1	20	LTS-103,104	LTG					318	540	RECP	SYSTEM FURN. 102	20	1	6	
	7	1	20	LTS-101,201	LTG	301	540					RECP	RECP-109	20	1	8	
	9	1	20	LTS-108	LTG			360	540			RECP	RECP-109, EXT	20	1	10	
	11	1	20	LTS-102	LTG					960	720	RECP	SYSTEM FURN. 102	20	1	12	
a	13	1	15	FREEZER 109A	MISC	500	540					RECP	SYSTEM FURN. 102	20	1	14	
	15	1	20	LTS-102,120,226	LTG			780	540			RECP	SYSTEM FURN. 102	20	1	16	
	17	1	20	LTS-EXTERIOR SOFFIT	LTG					200	751	RECP	RECP-101, 102, EXT, CUH-1	20	1	18	
	19	1	20	SPARE			632					RECP	RECP-102, 103, 104, EF-1, EF-2	20	1	20	
	21	1	20	LTS-BASEMENT	LTG			480	604			RECP	RECP-102,109B,EF-3	20	1	22	
	23	1	20	SPARE							540	RECP	SYSTEM FURN. 102	20	1	24	
	25	1	20	SPARE			360					RECP	SYSTEM FURN. 102	20	1	26	
	27	1	20	SPARE					540			RECP	SYSTEM FURN. 102	20	1	28	
	29	1	20	SPARE							1,500	RECP	FREEZER	20	1	30	
	31	1	20	SPARE			854					MOTR	EF-4	15	1	32	
	33	1	20	SPARE					854			MOTR	EF-5	15	1	34	
	35	1	20	SPARE								MISC	FUME HOOD		1	36	
	37	1	20	SPARE			360					RECP	RECP-BASEMENT	20	1	38	
	39	1	20	SPARE									SPARE	20	1	40	
	41	1	20	SPARE									SPARE	20	1	42	
				TOTAL V-A			5,707		5,868		5,529			17,104	VA		
				TOTAL AMPS			48		49		46			47	A		
				A.I.C. RATING: 10,000													

	LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
CONNECTED LOAD IN KVA (THIS PANEL):	4.75	10.15	1.71	0.21	0.50	0.00	0.00	0.00	17.1 KVA	47 A
CONNECTED LOAD IN KVA (BRANCH PANELS):									0.0 KVA	0 A
TOTAL CONNECTED LOAD IN KVA:	4.75	10.15	1.71	0.21	0.50	0.00	0.00	0.00	17.1 KVA	47 A
DEMAND LOAD IN KVA:	5.94	10.07	1.71	0.21	0.50	0.00	0.00	0.00	18.4 KVA	51 A

PANEL NOTES:
a PROVIDE 30mA GFCI EQUIPMENT PROTECTION.
b
c
d
e

PANEL OPTIONS:
MAIN LUGS ONLY

PANEL 'B'

MFR/MODEL: SQUARE 'D' TYPE NQ | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS						MTG: RECESSED					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A		B		C		TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	SPARE			720					RECP	SYSTEM FURN. 102	20	1	2	
	3	1	20	LTS-121A,130F,140	LTG			910	720			RECP	SYSTEM FURN. 102	20	1	4	
	5	1	20	SPARE							720	RECP	SYSTEM FURN. 102	20	1	6	
	7	1	20	LTS-130B,130C,130D,130E	LTG	720							SPARE	20	1	8	
	9	1	20	SPARE					500			MISC	FIRE ALARM PANEL 120	15	1	10	a
b	11	1	20	ELEVATOR CAB 12	LTG					300	360	RECP	RECP-150,HALLWAY	20	1	12	
	13	1	20	SPARE			210					RECP	RECP-155,EF-3,EF-3	20	1	14	
	15	1	20	SPARE									SPARE	20	1	16	
	17	1	20	SPARE							610	RECP	RECP-EXTERIOR,CUH-1	20	1	18	
	19	1	20	SPARE			720					RECP	RECP-102,150	20	1	20	
	21	1	20	SPARE					900			RECP	RECP-102,105,106,107A,107B	20	1	22	
	23	1	20	SPARE							864	MOTR	DOOR OPERATOR 120	15	1	24	
	25	1	20	SPARE			720					RECP	RECP-145	20	1	26	
	27	1	20	SPARE									SPARE	20	1	28	
	29	1	20	SPARE									SPARE	20	1	30	
	31	1	20	SPARE									SPARE	20	1	32	
	33	1	20	SPARE									SPARE	20	1	34	
	35	1	20	SPARE							720	RECP	LEGISLATIVE AFFAIRS PWR.	20	1	36	
	37	1	20	SPARE			720					RECP	LEGISLATIVE AFFAIRS PWR.	20	1	38	
	39	1	20	SPARE					720			RECP	LEGISLATIVE AFFAIRS PWR.	20	1	40	
	41	1	20	SPARE							720	RECP	LEGISLATIVE AFFAIRS PWR.	20	1	42	
				TOTAL V-A			3,810		3,750		4,294			11,854	VA		
				TOTAL AMPS			32		31		36			33	A		
				A.I.C. RATING: 10,000													

	LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
CONNECTED LOAD IN KVA (THIS PANEL):	1.93	8.56	0.86	0.22	0.50	0.00	0.00	0.00	11.9 KVA	33 A
CONNECTED LOAD IN KVA (BRANCH PANELS):									0.0 KVA	0 A
TOTAL CONNECTED LOAD IN KVA:	1.93	8.56	0.86	0.22	0.50	0.00	0.00	0.00	11.9 KVA	33 A
DEMAND LOAD IN KVA:	2.41	8.56	0.86	0.22	0.50	0.00	0.00	0.00	12.6 KVA	35 A

PANEL NOTES:
a PROVIDE CIRCUIT BREAKER WITH RED HANDLE CAPABLE OF BEING LOCKED IN THE 'ON' POSITION.
b EXISTING CIRCUITS RECONNECTED TO NEW PANEL.
c
d

PANEL OPTIONS:
MAIN LUGS ONLY

PANEL 'C'

MFR/MODEL: SQUARE 'D' TYPE NQ | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS						MTG: RECESSED					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A		B		C		TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	LTS-250	LTG	900	360					RECP	SYSTEM FURN. 250	20	1	2	
	3	1	20	LTS-240,240A-D,250H	LTG			1,861	360			RECP	SYSTEM FURN. 250	20	1	4	
	5	1	20	LTS-250A,250G-I,265,265A,265B	LTG					1,410	360	RECP	SYSTEM FURN. 250	20	1	6	
	7	1	20	LTS-250C-F	LTG	960	900					RECP	RECP-201,265,265B	20	1	8	
	9	1	20	LTS-230	LTG			600					SPARE	20	1	10	
	11	1	20	LTS-203-205	LTG					900	900	RECP	RECP-250,240B	20	1	12	
	13	1	20	LTS-EXTERIOR	LTG	700	720					RECP	RECP-250G	20	1	14	
	15	1	20	LTS-CORRIDOR 200	LTG			600	1,080			RECP	RECP-250,210	20	1	16	
	17	1	20	SPARE							900	RECP	RECP-250D	20	1	18	
	19	1	20	SPARE			632					RECP	RECP-200,203,204,EF-1,EF-2	20	1	20	
	21	1	20	SPARE					900			RECP	RECP-240	20	1	22	
	23	1	20	SPARE							540	RECP	RECP-240A	20	1	24	
	25	1	20	SPARE			900					RECP	RECP-240D	20	1	26	
	27	1	20	SPARE					720			RECP	SYSTEM FURN. 240	20	1	28	
	29	1	20	SPARE							720	RECP	SYSTEM FURN. 240	20	1	30	
	31	1	20	SPARE			720					RECP	SYSTEM FURN. 240	20	1	32	
	33	1	20	SPARE					900			RECP	RECP-250E	20	1	34	
	35	1	20	SPARE							1,080	RECP	RECP-250A,250C,250I	20	1	36	
	37	1	20	SPARE									SPARE	20	1	38	
	39	1	20	SPARE									SPARE	20	1	40	
	41	1	20	SPARE									SPARE	20	1	42	
				TOTAL V-A			6,792		7,021		6,810			20,623	VA		
				TOTAL AMPS			57		59		57			57	A		
				A.I.C. RATING: 10,000													

	LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
CONNECTED LOAD IN KVA (THIS PANEL):	7.93	12.69	0.00	0.00	0.00	0.00	0.00	0.00	20.6 KVA	57 A
CONNECTED LOAD IN KVA (BRANCH PANELS):									0.0 KVA	0 A
TOTAL CONNECTED LOAD IN KVA:	7.93	12.69	0.00	0.00	0.00	0.00	0.00	0.00	20.6 KVA	57 A
DEMAND LOAD IN KVA:	9.91	11.35	0.00	0.00	0.00	0.00	0.00	0.00	21.3 KVA	59 A

PANEL NOTES:
a
b
c
d
e

PANEL OPTIONS:
MAIN LUGS ONLY

PANEL 'D'

MFR/MODEL: SQUARE 'D' TYPE NQ | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS						MTG: RECESSED					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A		B		C		TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	LTS-200,206,232	LTG	1,081	540					RECP	SYSTEM FURN. 221,239	20	1	2	
	3	1	20	LTG-206,210C,210D	LTG			573	720			RECP	SYSTEM FURN. 221,239	20	1	4	
	5	1	20	LTS-210,210A,210E-G	LTG					781	720	RECP	SYSTEM FURN. 221,239	20	1	6	
	7	1	20	LTS-220,220A,225,225A,230A,230B	LTG	1,412							SPARE	20	1	8	
	9	1	20	SPARE					720			RECP	RECP-202,214,226	20	1	10	
	11	1	20	SPARE							720	RECP	RECP-233A	20	1	12	
	13	1	20	SPARE			540					RECP	RECP-223	20	1	14	
	15	1	20	SPARE					900			RECP	RECP-205,220224	20	1	16	
	17	1	20	SPARE							900	RECP	RECP-262	20	1	18	
	19	1	20	SPARE			720					RECP	RECP-239	20	1	20	
	21	1	20	SPARE					1,080			RECP	RECP-237,238	20	1	22	
	23	1	20	SPARE							735	RECP	RECP-236,EF-3	20	1	24	
	25	1	20	SPARE			900					RECP	RECP-232	20	1	26	
	27	1	20	SPARE					1,500			RECP	RECP-BREAKROOM	20	1	28	
	29	1	20	SPARE							1,200	MISC	REFRIGERATOR 231	15	1	30	
	31	1	20	SPARE			800					MISC	DISHWASHER	15	1	32	
	33	1	20	SPARE					900			RECP	RECP-217	20	1	34	
	35	1	20	SPARE							1,500	RECP	RECP-BREAKROOM	20	1	36	
	37	1	20	SPARE								RECP	SYSTEM FURN. 219,223	20	1	38	
	39	1	20	SPARE								RECP	SYSTEM FURN. 219,223	20	1	40	
	41	1	20	SPARE								RECP	SYSTEM FURN. 219,223	20	1	42	
				TOTAL V-A			5,993		6,393		6,556			18,942	VA		
				TOTAL AMPS			50		53		55			53	A		
				A.I.C. RATING: 10,000													

	LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
CONNECTED LOAD IN KVA (THIS PANEL):	3.85	13.10	0.00	0.00	2.00	0.00	0.00	0.00	18.9 KVA	53 A
CONNECTED LOAD IN KVA (BRANCH PANELS):									0.0 KVA	0 A
TOTAL CONNECTED LOAD IN KVA:	3.85	13.10	0.00	0.00	2.00	0.00	0.00	0.00	18.9 KVA	53 A
DEMAND LOAD IN KVA:	4.81	11.55	0.00	0.00	2.00	0.00	0.00	0.00	18.4 KVA	51 A

PANEL NOTES:
a
b
c
d
e

PANEL OPTIONS:
MAIN LUGS ONLY

REVISIONS

No	Description	Date

DRAWINGS PREPARED BY:

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Nome State Office Building Remodel

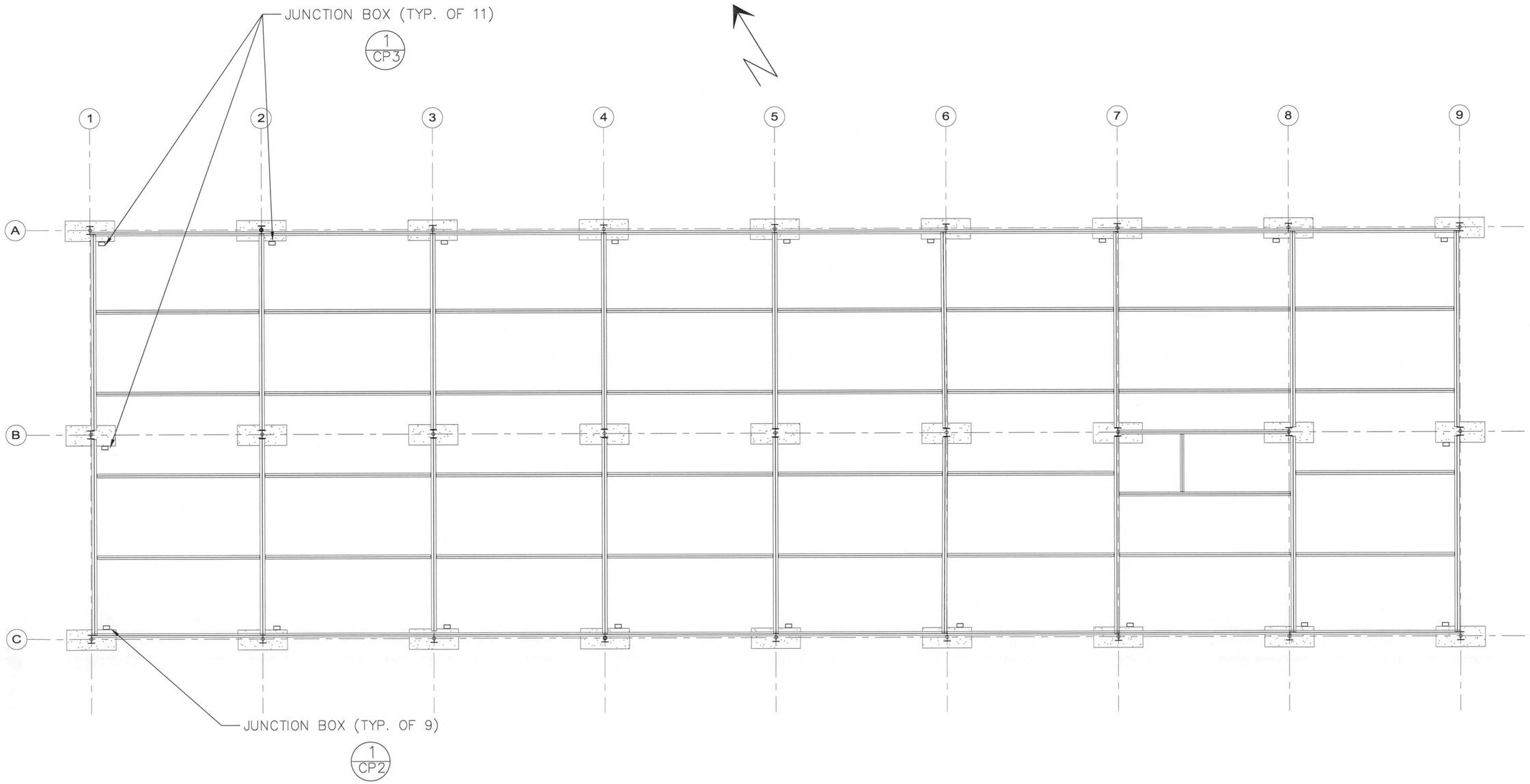
Nome Alaska

State Project No.: NSOB001

Bid Set
December 13, 2013

Electrical Panel Schedules

E6.2



STATE OF ALASKA
JOHN
William R. Mott
CHE-5983
REGISTERED PROFESSIONAL ENGINEER

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Nome State Office Building Remodel

Nome Alaska

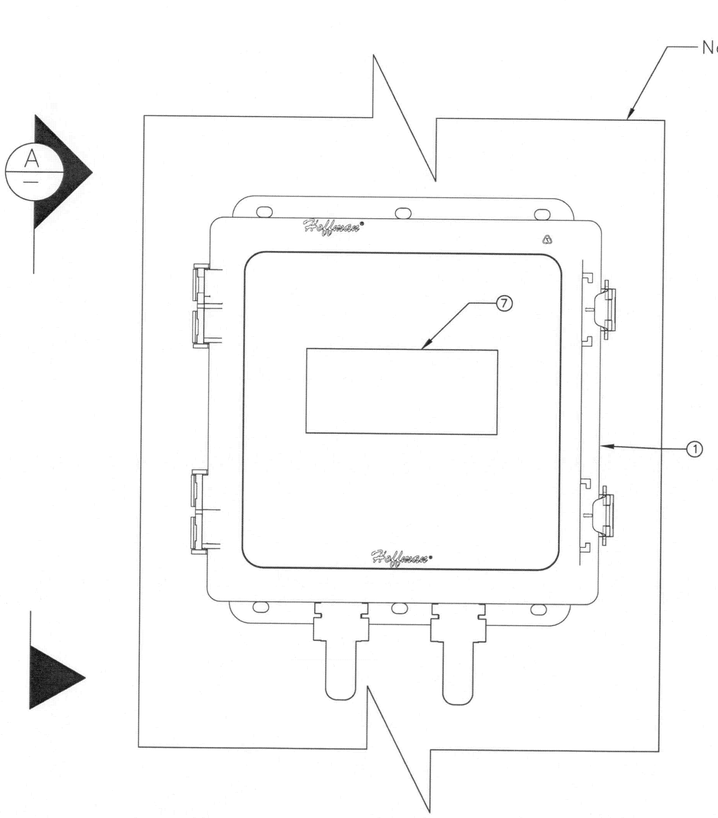
State Project No.: NSOB001

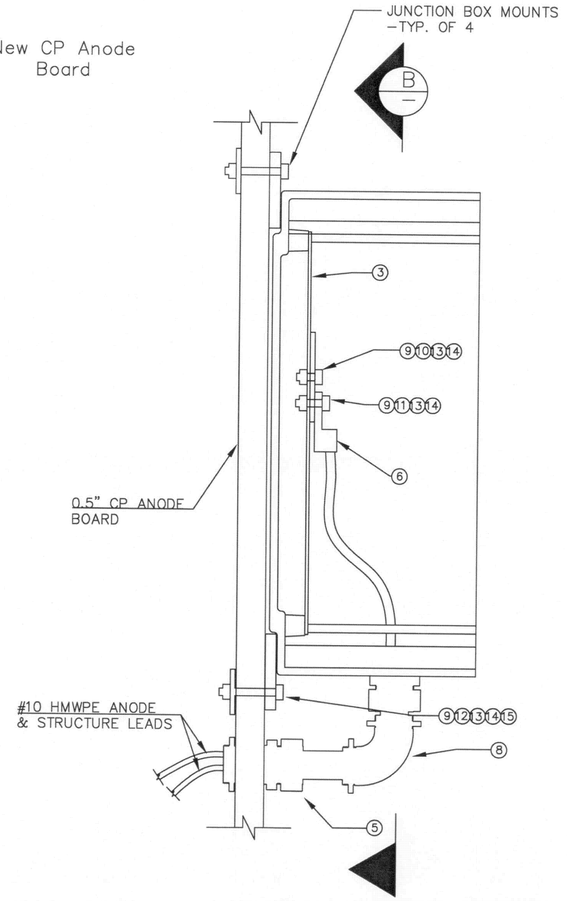
Bid Document
December 13,2013

JUNCTION BOX LOCATIONS

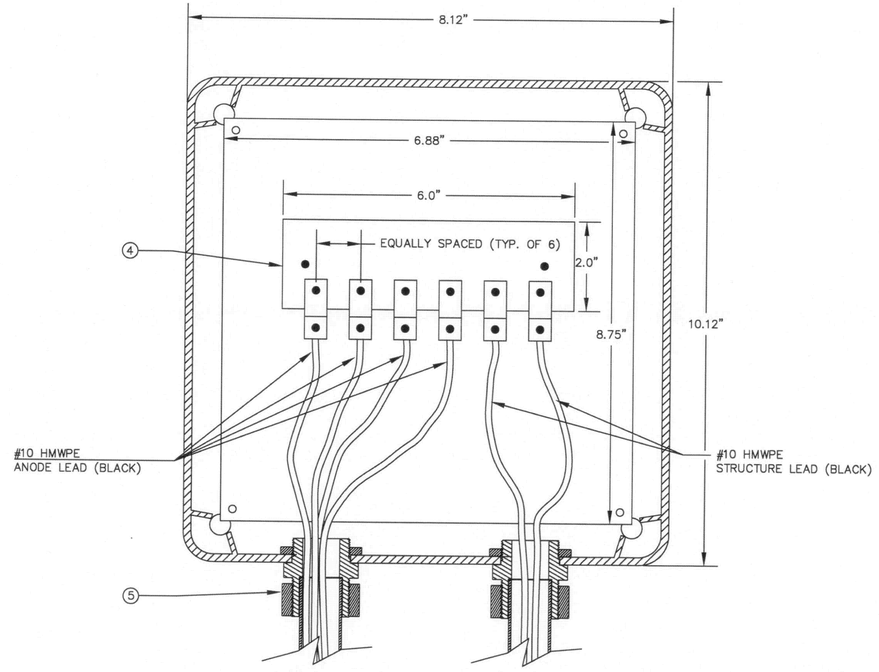
CP-1

MATERIAL LIST (TYP. OF 9)				
REF	QTY	DESCRIPTION	MANUFACTURER	MODEL
1	1	10.12"x 8.12"x 4.38" ENCLOSURE	HOFFMAN	A1084PHC
2	1	MOUNTING BLOCK KIT	HOFFMAN	APNLBLK
3	1	8.75"x 6.88" COMPSITE PANEL	HOFFMAN	A10P8C
4	1	6"x 2"x 0.25" BUS BAR (COPPER)		
5	2	1.25" STRAIGHT FITTING COMPRESSION CONNECTOR FOR 1.25" EMT		
6	6	2-14 AWG SOLDERLESS LUG	ILSCO	TA-2/0
7	1	2"x 4.5" PHENOLIC TAG MARKED TO PILING DESIGNATION		
8		ELBOW COMPRESSION CONNECTOR FOR 1.25" EMT		
9		1/4"-20 HEX NUT		
10		1/4-20 x 1" BOLT		
11		1/4-20 x 1.25" BOLT		
12		1/4-20 x 1.5" BOLT		
13		1/4" LOCK WASHER		
14		1/4" FLAT WASHER (5/8" O.D)		
15		1/4" FLAT WASHER (1"- 1.5" O.D)		





SIDE VIEW



FRONT VIEW

1 / CP2 CP J-BOX INSTALLATION DETAIL
SCALE: NTS

A CP J-BOX TERMINAL BOARD SECTION
SCALE: NTS

B CP J-BOX TERMINAL BOARD SECTION
SCALE: NTS

NOTES:
1) THIS JUNCTION BOX CONFIGURATION APPLIES ONLY TO THE 9 COLUMNS ON THE SHORE SIDE OF THE NOME STATE OFFICE BUILDING, GRID LINE C.

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Nome State Office Building Remodel

Nome Alaska

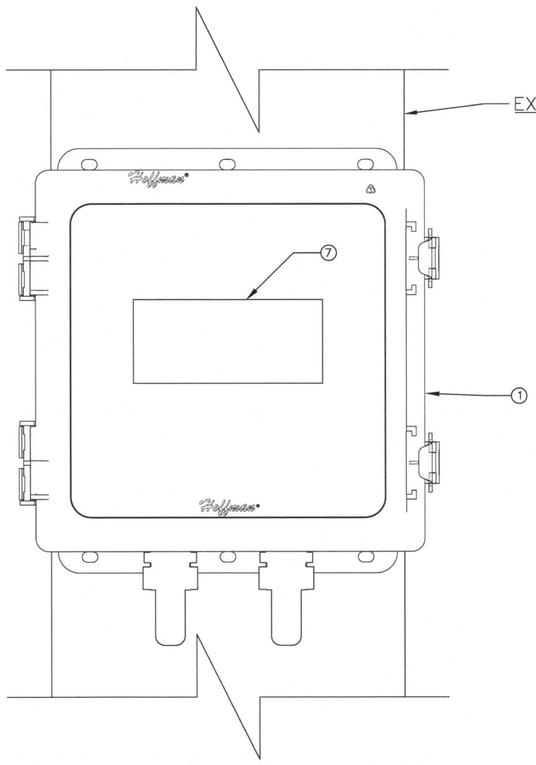
State Project No.: NSOB901

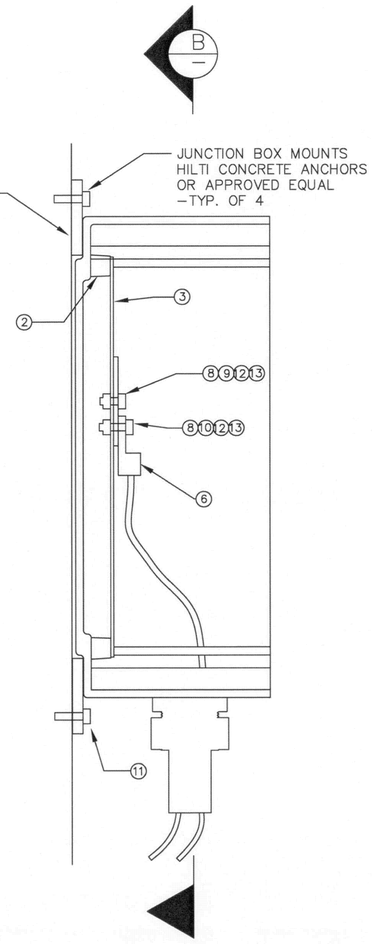
Bid Documents
December 13,2013

JUNCTION BOX DETAILS FOR SHORE SIDE

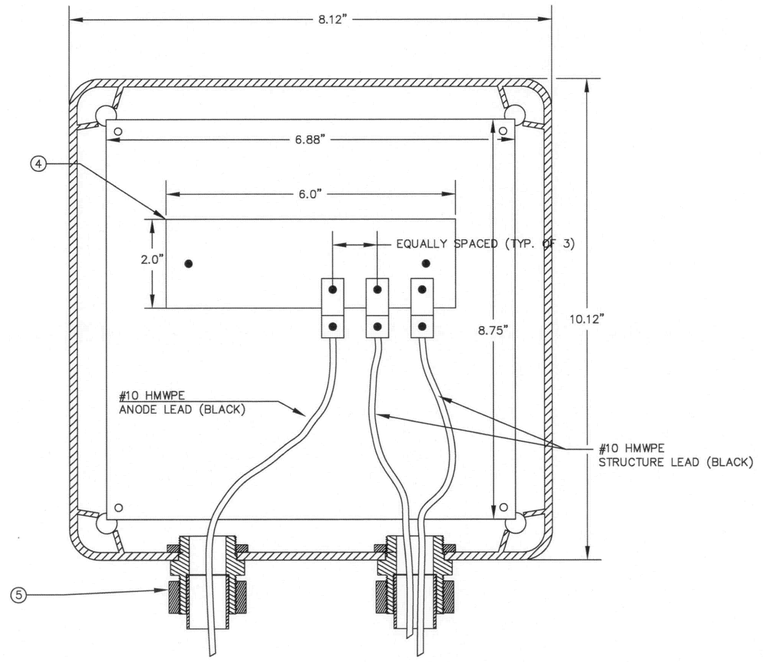
CP-2

MATERIAL LIST (TYP. OF 11)				
REF	QTY	DESCRIPTION	MANUFACTURER	MODEL
1	1	10.12"x 8.12"x 4.38" ENCLOSURE	HOFFMAN	A1084PHC
2	1	MOUNTING BLOCK KIT	HOFFMAN	APNLBLK
3	1	8.75"x 6.88" COMPSITE PANEL	HOFFMAN	A10P8C
4	1	6"x 2"x 0.25" BUS BAR (COPPER)		
5	2	1.25" STRAIGHT FITTING COMPRESSION CONNECTOR FOR 1.25" EMT		
6	6	2-14 AWG SOLDERLESS LUG	ILSCO	TA-2/0
7	1	2"x 4.5" PHENOLIC TAG MARKED TO PILING DESIGNATION		
8		1/4"-20 HEX NUT		
9		1/4-20 x 1" BOLT		
10		1/4-20 x 1.25" BOLT		
11		1/4" HILTI CONCRETE ANCHOR (OR APPROVED EQUAL)		
12		1/4" LOCK WASHER		
13		1/4" FLAT WASHER (5/8" O.D)		





SIDE VIEW



FRONT VIEW

1 / CP3 CP J–BOX INSTALLATION DETAIL
SCALE: NTS

A CP J–BOX TERMINAL BOARD SECTION
SCALE: NTS

B CP J–BOX TERMINAL BOARD SECTION
SCALE: NTS

NOTES:

1) THIS JUNCTION BOX CONFIGURATION APPLIES TO THE 9 COLUMNS ON THE STREET SIDE OF THE NOME STATE OFFICE BUILDING, GRID LINE A, AND THE 2 EXTERIOR COLUMNS ON GRID LINE B.

STATE OF ALASKA 49TH
12-12-13
William R. Mott
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Nome State Office Building Remodel

Nome Alaska

State Project No.: NSOB001

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December 13,2013

JUNCTION BOX DETAILS FOR STREETSIDE

CP-3