ADDENDUM 1

Addendum #	1	**Date Issued**	Nov. 6th, 2026

Project Name | Job #	Bismarck Fire Station 6	20253510

Bid Date | Time	Nov. 19th, 2026	3:00pm Local Time

THIS ADDENDUM AMENDS AND BECOMES PART OF THE CONTRACT DOCUMENTS FOR EAPC PROJECT 20253510 DATED October 29th, 2026, RESPECTIVELY. EACH BIDDER SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY MARKING THE ADDENDUM NUMBER AND DATE ON THE BID FORM.

PRE-BID MEETING

PLAN HOLDERS LIST

Plan Holders list attached.

SPECIFICATIONS

04 0523	MASONRY RAINSCREEN	DELETE section in its entirety.
04 2000	UNIT MASONRY	REVISE paragraph 2.2.B.1: Color: Match Architect's Sample (Garnet Velour); Station #4 Face Brick Veneer. OMIT paragraph 2.2.C, all Face Brick (BR-2).
04 4319	ADHERED STONE MASONRY VENEER	DELETE section in its entirety.
08 3510	FOLDING PANEL DOOR AND GRILLES	ADD/INSERT the following prior to paragraph 2.1.A as follows: Basis of Design: FF30 Performance Series; Four-Fold industrial metal doors manufactured by Door Engineering and Manufacturing or equal products by other manufacturers approved in advance.
08 3613	SECTIONAL DOORS	ADD/Insert the following paragraph 2.3.B as follows: B. Type OHS-SG - Doors: Flush steel insulated and full vision aluminum frame panels, standard lift operating style with track and hardware; complying with DSMA 102, commercial application.

		1. Flush Door Panels: Steel construction; outer steel sheet of 24 gauge, 0.0239 inch minimum thickness, flush profile; inner steel sheet of 27 gauge, 0.0164 inch minimum thickness, flat profile; core reinforced sheet steel roll formed to channel shape, rabbeted weather joints at meeting rails; polyurethane insulation. a. Exterior Finish: Factory finished with acrylic baked enamel; color to match Architect's sample; Red. b. Interior Finish: Factory finish; white or manufacturer's standard. 2. Aluminum Full Vision Panel: 3 inches thick, aluminum alloy stiles and rails, Panel infill 1/2 inch insulated glass: clear. a. Finish: Powdercoat finish, color selected by Architect, match Flush Panel; Red. 3. Operation Cycles: Door components and operators capable of operating for not less than 50,000 cycles. 4. Door Nominal Thickness: 3 inches thick. 5. Electric Operation: Electric Control Station, and two remotes per door.
		DELETE paragraph 2.4 in its entirety.
09 9000	PAINTING AND COATING	OMIT; 'non-vehicular' from scope descriptions within paragraph 1.1.D.1.b.5.

DRAWINGS

G101	**CLARIFICATION** of information, number of water fountains, and exit distances.
	REMOVE 1-hour fire rating along Mechanical203/Data 202 to Training/Storage 201/Apparatus Bay 128.
S001	**REVISED** Structural general notes.
S002	**REVISED** Design criteria, loads, and material strengths.
S003	**REVISED** Special inspection tables.
S200	**REVISED** Schedules and foundation plan.
S201	**REVISED** Schedules and slab plan.
A001	**REVISED** Fire alarm mounting height.

A003	**REVISED** Site plan to show ADA parking.
A021	**REVISED** Wall types E3.1 and E4.1.
A201	**REVISED** First floor plan living quarters walls.
	ADD note to 3/A201, all bollards to receive a plastic bollard cove, typical.
A401	**REVISED** Elevation keynoted for downspouts. Adjustments made to exterior light fixtures.
A441	**CHANGED** Foundation insulation from R-10 to R-15.
A442	**CHANGED** Foundation insulation from R-10 to R-15.
A501	**REVISED** Exterior wall of Living Quarters.
A701	**REVISED** View names updated.
A801	**CLARIFICATION** of door information on door schedule, fire rating, overhead door operator performance, and room name of door location.
	CLARIFICATION of overhead door OHS-SG panel times, relocated bi-fold door frame elevation to Alternate #1 sheet.
A831	**CLARIFICATION** of door information of schedule, frame type and what door within base bid the Bi-Fold/Four-Fold door will replace within Alternate #1.
	RELOCATED STL-02 door frame from A801.
P201	**ADDED** FD-2 tag in shower 124
P202	(2P202) - **ADDED** FD-2 tag to shower 124
P501	**CHANGED** SH-3 to FD-2 tag on sanitary waste & vent riser
M301	**REVISED** cfm for EF-1 and associated ductwork sizes.
M302	**REVISED** cfm for EF-1 and MAU-1 and associated ductwork sizes.
M801	**REVISED** MAU-1 gpm on mechanical flow diagram
M802	**REVISED** airflow and performances for EF-1, MAU-1 and L-3.

PRIOR APPROVALS

Subject to meeting all of the requirements of the plans and specifications, the following items are approved for bidding:

07 2700	Air Barrier	Tremco; Exoair 230

ATTACHMENTS

Specifications:

Drawings:

G101	A442	P501
A001	A501	M301
A003	A701	M302
A021	A801	M801
A201	A831	M802
A401	P201	
A441	P202	

END ADDENDUM 1

EAPC

PLAN HOLDERS LIST
Fire Station #6
Bismarck, ND 58503
EAPC Project: # 20253510

BID DATE: Thursday, November, 19, 2026
BID TIME: 3:00 PM CST

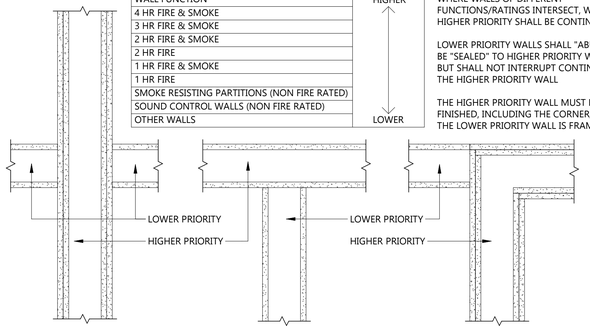
PLAN HOLDER	CONTACT PERSON	ADDRESS	CITY	STATE	ZIP	PHONE	FAX	EMAIL
EAPC	Brett Donat	116 West Main Ave	Bismarck	ND	58501	701-224-7306		brett.donat@eapc.net
BUILDERS EXCHANGES								
Aberdeen Builders Exchange		302 N. Jackson Street	Aberdeen	SD	57401	605-290-4210		dakotabuild@midconetwork.com
Billings Builders Exchange		2050 Broadwater Avenue	Billings	MT	59102	406-652-1311	406-652-1391	bbx@billingsplanroom.com
Bismarck Builders Exchange		215 Airport Road	Bismarck	ND	58504	701-258-4215	701-258-1391	info@bbxnd.com
Bismarck-Mandan Builders Exchange		P. O. Box 550	Mandan	ND	58554	701-667-4322	701-667-5217	bismanblderex@gmail.com
CMD (Construction Market Data)		Suite 500	Norcross	GA	30092	770-417-4000	800-508-5370	content@constructconnect.com
Construction Industry Center		Box 1227	Rapid City	SD	57709	605-343-5252	605-343-4591	cic@constructionindustrycenter.com or chrissy@constructionindustrycenter.com
Fargo-Moorhead Bldrs. Exchange		P. O. Box 10076	Fargo	ND	58106	701-237-6772	701-232-1653	upload
Grand Forks Builders Exchange		2211 S. Washington St. Ste D	Grand Forks	ND	58201	701-772-7798	701-772-0387	planroom@bntgf.com
McGraw Hill Const./Dodge Plan Rm.		1401 Glenwood Avenue No.	Minneapolis	MN	55405	612-381-2290	612-381-2295	dodge.docs@construction.com
Minnesota Builders Exchange		1123 Glenwood Avenue	Minneapolis	MN	55405	612-381-2620	612-381-2621	new project: jb@mbex.org addendums: addenda@mbex.org
Minot Builders Exchange		2424 Burdick Expy East	Minot	ND	58701	701-838-5353	701-839-0638	mbe1@srt.com
Plains Builders Exchange		220 N. Kiwanis Ave.	Sioux Falls	SD	57104-2530	605-334-8886	605-334-0112	info@plainsbuilders.com
QuestCDN.com								www.questcdn.com
Sioux Falls Builders Exchange		1418 "C" Avenue	Sioux Falls	SD	57104	605-357-8687	605-357-8655	info@sfbx.com
Williston Builders Exchange		2108 - 4th Ave. West	Williston	ND	58801-3423	701-572-9460	701-572-2511	willistonbuildersexchange@gmail.com
CONTRACTOR								
Roers	Matt Thomas					701-495.1416		mthomas@roers.com
Capitol City Construction	Erik Bilstad					701.570.1817		erik@cccincnd.com
JN Contracting	Tyler Kellen					701.478.4567		estimating@jncbuilds.com
JE Dunn	Katie Weeks					612.358.3987		katie.weeks@jedunn.com
First Dakota Enterprises	Kyle McKeever					605.223.9600		kyle.mckeever@firstdakotaenterprises.com
Oztech Electric						701.390.6886		office@oztechelectric.com
Northwest Contracting						701.255.7727		
Paramount Builders	Eric					701.258.0088		estimating@buildparamount.com
Missouri River Contracting	Donnie					701.258.9140		donnie@missouririvercontracting.com
SUPPLIER OR SUBCONTRACTOR								
Core and Main LP	Heather Schumacher					314.432.4700		heather.schumacher@coreandmain.com
SiteWorx Excavation	Cayne Cymbaluk					701.425.1874		caynec@site-worx.net
Phaze Concrete Inc	Lyle Jeffs					435.703.8122		lylej@phazeconcrete.com

WALL PRIORITY LEGEND	
WALL FUNCTION	HIGHER
4 HR FIRE & SMOKE	
3 HR FIRE & SMOKE	
2 HR FIRE & SMOKE	
2 HR FIRE	
1 HR FIRE & SMOKE	
1 HR FIRE	
SMOKE RESISTING PARTITIONS (NON FIRE RATED)	
SOUND CONTROL WALLS (NON FIRE RATED)	
OTHER WALLS	LOWER

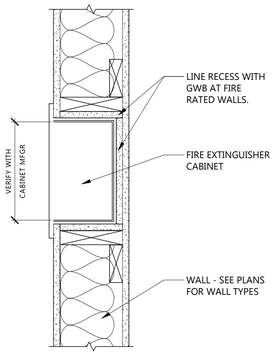
NOTES:
WHERE WALLS OF DIFFERENT FUNCTIONS/RATINGS INTERSECT, WALLS OF HIGHER PRIORITY SHALL BE CONTINUOUS

LOWER PRIORITY WALLS SHALL "ABUT" AND BE "SEALED" TO HIGHER PRIORITY WALLS, BUT SHALL NOT INTERRUPT CONTINUITY OF THE HIGHER PRIORITY WALL

THE HIGHER PRIORITY WALL MUST BE FINISHED, INCLUDING THE CORNER, BEFORE THE LOWER PRIORITY WALL IS FRAME TO IT

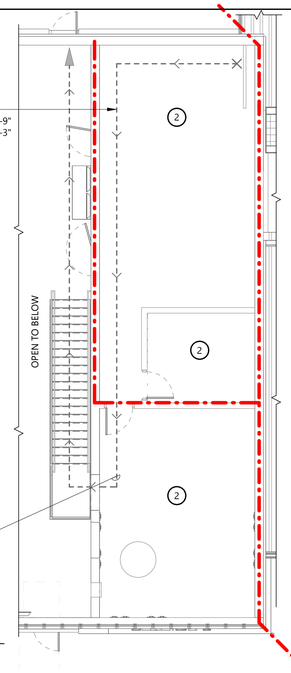


3 G101 WALL PRIORITY LEGEND
1 1/2" = 1'-0"



4 G101 RECESSED FEC
1/4" = 1'-0"

MOST REMOTE POINT:
COMMON PATH OF TRAVEL DISTANCE 68'-9"
EXIT ACCESS TRAVEL DISTANCE 87'-3"



NOTE: 1-HOUR FIRE BARRIER OCCUPANCY SEPARATION FROM 'B'/ 'R-2' OCCUPANCY.	
OCCUPANCY	'S-2' - VEHICLE PARKING
SEPARATION	1-HOUR
AREA	6,375 SF
OCC. LOAD FCTR	1/500 SF
OCC. LOAD	6
EXISTS REQ'D	2
EXITS PROV'D	3

MEZZANINE

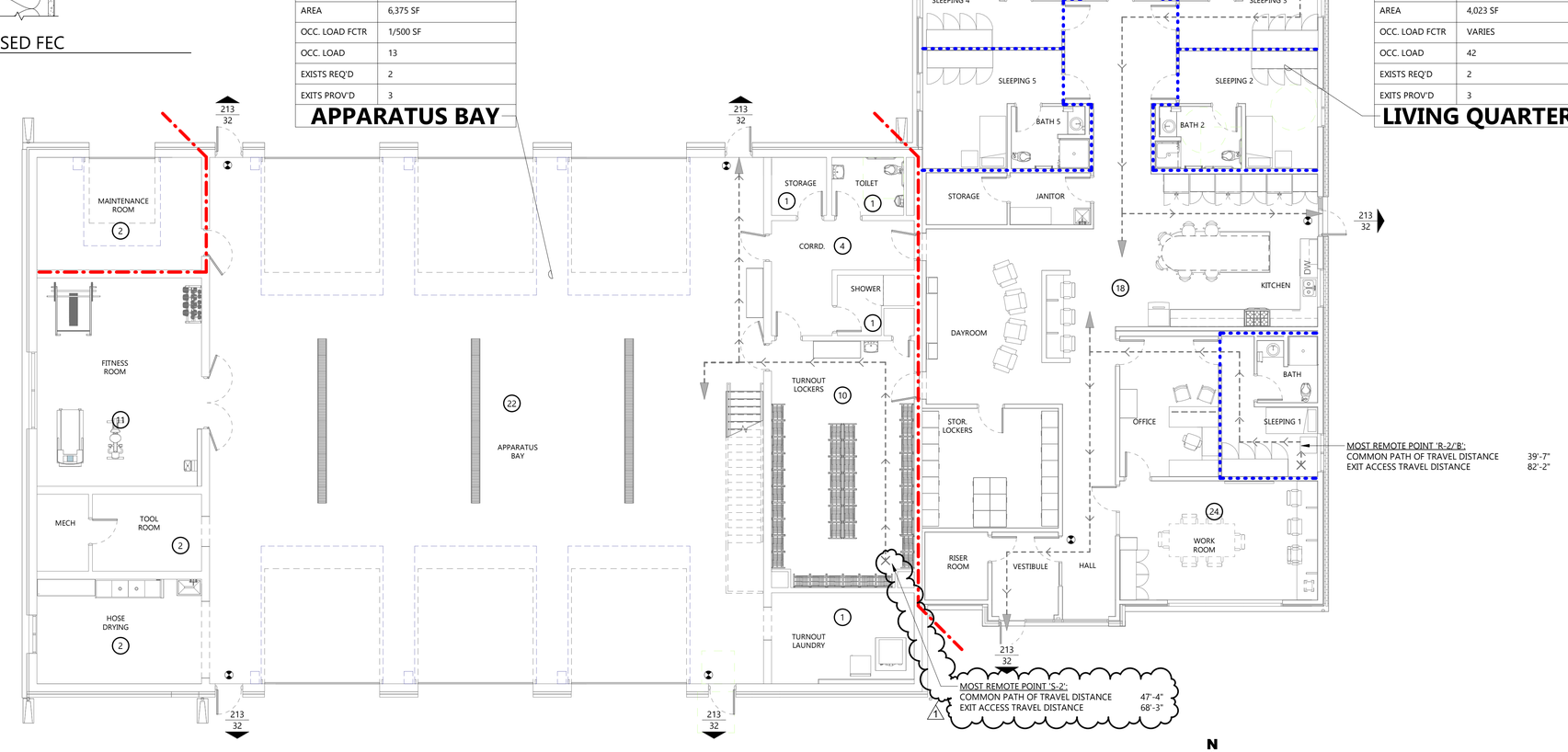
2 G101 MEZZANINE LIFE SAFETY PLAN
1/8" = 1'-0"

NOTE: 1-HOUR FIRE BARRIER OCCUPANCY SEPARATION FROM 'B'/ 'R-2' OCCUPANCY.	
OCCUPANCY	'S-2' - VEHICLE PARKING
SEPARATION	1-HOUR
AREA	6,375 SF
OCC. LOAD FCTR	1/500 SF
OCC. LOAD	13
EXISTS REQ'D	2
EXITS PROV'D	3

APPARATUS BAY

NOTE: 1-HOUR FIRE BARRIER OCCUPANCY SEPARATION FROM 'S-2' OCCUPANCY.	
OCCUPANCY	'R-2' - RESIDENTIAL
SEPARATION	1-HOUR
AREA	4,023 SF
OCC. LOAD FCTR	VARIES
OCC. LOAD	42
EXISTS REQ'D	2
EXITS PROV'D	3

LIVING QUARTERS



1 G101 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

KEYNOTE LEGEND:

< < <	INDICATES KEYNOTE ON PLAN
01	1 HOUR SMOKE BARRIER COMPARTMENT SEPARATION
02	1 HOUR FIRE BARRIER OCCUPANCY SEPARATION
03	NO RATING REQUIRED CORRIDOR WALLS IN SPRINKLERED B OCCUPANCY
04	NFPA 13 AUTOMATIC FIRE SPRINKLER SYSTEM

1

LIFE SAFETY LEGEND

- 1 HOUR FIRE BARRIER
- 1 HOUR FIRE PARTITION
- 1/2 HOUR FIRE PARTITION
- EXIT/EXIT DISCHARGE — CLEAR WIDTH IN INCHES / OCCUPANT CAPACITY
- EXIT ACCESS — CLEAR WIDTH IN INCHES / OCCUPANT CAPACITY
- ILLUMINATED EXIT SIGN
- COMMON PATH TRAVEL DISTANCE (CPTD) / EXIT ACCESS (EXA) / TRAVEL DISTANCE TO EXIT (TDX)
- HAZARDOUS AREAS
- (X) OCCUPANT LOAD IN A GIVEN ROOM OR AREA
- FEC FIRE EXTINGUISHER CABINET
- FE FIRE EXTINGUISHER

CODE ANALYSIS

BUILDING DESCRIPTION
PROPOSED NEW SINGLE STORY W/ AN OCCUPIED MEZZANINE, FULLY FIRE-SPRINKLERED 11,367 SF MIXED OCCUPANCY. CONSISTING OF THREE (3) BAY APPARATUS GARAGE, AN EXERCISE ROOM, LIVE/WORK QUARTERS, AND TRAINING SPACE.

REFERENCE CODES

IBC	INTERNATIONAL BUILDING CODE W/ AMENDMENTS	2021
IFC	INTERNATIONAL FIRE CODE	2021
IMC	INTERNATIONAL MECHANICAL CODE	2021
IECC	INTERNATIONAL ENERGY CONSERVATION CODE	2021
ACC	ICC ANSI A117.1 2017	2017
NEC	NATIONAL ELECTRICAL CODE, ND STATE WIRING STANDARDS	2026
UPC	UNIFORM PLUMBING CODE, ND STATE PLUMBING STANDARDS	2018

1

OCCUPANCY

GROUP B - BUSINESS OFFICE/ TRAINING/ KITCHEN		IBC 303.1
GROUP R - RESIDENTIAL 'R-2' LIVING/SLEEPING QUARTERS/ ASSOCIATED AREAS		IBC 310.3
GROUP S - LOW-HAZARD 'S-2' APP. BAY/TURNOUT GEAR/ASSOCIATED AREAS		IBC 311.3
NONSEPARATED MIXED - B&R		IBC 508.3
SEPARATED MIXED-USE - B&R/S-2		IBC 508.4

CONSTRUCTION TYPE
TYPE VB - NON-COMBUSTIBLE & COMBUSTIBLE — IBC 602.5
NO FIRE-RESISTANCE FOR BUILDING ELEMENTS REQUIRED. — IBC TAB. 601

ALLOWABLES SINGLE STORY/ SPRINKLERED/ SEPARATED OCCUPANCY

MAXIMUM BUILDING HEIGHT		IBC TAB 504.3
ALLOWED: 60'-0"	ACTUAL: 31'-5"	
MAXIMUM NUMBER OF STORIES		IBC TAB 504.4
ALLOWED: 3	ACTUAL: 1	
MAXIMUM BUILDING AREA		IBC TAB 506.2
ALLOWED: 28,000 SF ('R-2')	ACTUAL: 3,91X SF	
54,000 SF ('S-2')	6,82X SF	
(3,91X / 28,000) + (3,82X / 54, 000)	< 1.0	IBC 506.2.2
0.139 + 0.07 = 0.21	< 1.0 COMPLIES	
MEZZANINE IS CONSIDERED A PORTION OF THE STORY BELOW AND SHALL NOT CONTRIBUTE TO EITHER THE BUILDING AREA OR NUMBER OF STORIES. THE CLEAR HEIGHT ABOVE OR BELOW SHALL NOT BE LESS THAN 7 FEET.		IBC 505.2

FIRE RESISTANCE

1-HOUR FIRE BARRIER	
OCCUPANCY SEPARATION	IBC 707.3.9
INCIDENTAL USE/ HAZARDOUS AREA	IBC 707.3.7
1/2-HOUR FIRE PARTITIONS	
SLEEPING UNIT SEPARATION - EXCEPTION 2	IBC 708.3

FIRE PROTECTION
NFPA 13 AUTOMATIC FIRE SPRINKLER SYSTEMS — IBC 903.3.1.1

EGRESS
SEE PLANS ON THIS SHEET FOR EGRESS FROM MEZZANINE AND SEPARATED OCCUPANCIES.

BUILDING EGRESS		
AREA	11,85X SF	
OCCUPANT LOAD	112 OCC.	
EXITS		
REQUIRED	2	
PROVIDED	6	
MAX. COMMON PATH TRAVEL DISTANCE		
ALLOWED	100'-0" SEE PLAN	
PROVIDED		
MAX. EXIT ACCESS TRAVEL DISTANCE	125' ('R-2')/100' ('S-2' SEE PLAN	
ALLOWED		
PROVIDED		
MIN. REQUIRED EXIT WIDTH	SEE PLAN	
DOORS		

1

ACCESSIBILITY
THIS FACILITY IS DESIGNED TO COMPLY WITH ANSI/ICC A117.1 2017 AS A VISITABLE SPACE TO PUBLIC, HOWEVER NON-PUBLIC PORTIONS OF THE FACILITY ARE NOT INTENDED FOR FULLY ACCESSIBLE PLUMBING FIXTURE.

PLUMBING FIXTURES

R-2 OCCUPANCY - 42 OCC

FIXTURE TYPE	REQ'D	PRVD	IBC TAB 2902.1
WATER CLOSET - 1/10	4	5	
LAVATORIES - 1/10	4	5	1
DRINKING FNTS - 1/100	1	1	
OTHER - SERV SINK	1	1	

R-2 OCCUPANCY - 13 OCC

FIXTURE TYPE	REQ'D	PRVD	IBC TAB 2902.1
WATER CLOSET - 1/100	1	1	
LAVATORIES - 1/100	4	1	
DRINKING FNTS - 1/1000	1	-	
OTHER - SERV SINK	1	1	

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: AS
CHECKED BY: BD

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
FIRST FLOOR CODE PLAN

G101

Revit Version: 2025
Print Date: 11/6/2026, 1:54:52 PM

GRAPHIC SYMBOLS

BUILDING ELEVATION
NOTE
ELEVATION ID
SHEET NUMBER

WALL SECTION
NOTE
SECTION ID
SHEET NUMBER

BUILDING SECTION
NOTE
SECTION ID
SHEET NUMBER

DETAIL REFERENCE
NOTE
DETAIL NUMBER
SHEET NUMBER

NOTE
DETAIL NUMBER
SHEET NUMBER
BOUNDARY OF THE ENLARGED AREA

INTERIOR ELEVATION
ELEVATION NUMBER
SHEET NUMBER

ROOM NAME
ROOM TAG
ROOM NAME
ROOM NUMBER

WINDOW TAG
WINDOW NUMBER

MATCH LINE
VIEW REFERENCE
VIEW REFERENCE

VIEW REFERENCE OF ADJACENT SHEET

KEYNOTE
DISCIPLINE LETTER
KEYNOTE NUMBER

GRID LINES
CONVENTIONAL GRID SYSTEM

ELEVATION DATUMS
BENCH MARK
SPOT ELEVATION (EXISTING)
SPOT ELEVATION (PROPOSED)
LEVEL DATUM

WALL TAG
WALL TYPE

REVISION INDICATOR
REVISION TAG
REVISION CLOUD

A	
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICAN WITH DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJACENT / ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APL	ACRYLIC PANEL
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
AVE	AVENUE
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL

B	
BB	BOND BEAM
BD	BOARD
BFD	BI-FOLD DOOR
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BEAM
BO	BOTTOM OF / BY OTHERS
BOT	BOTTOM
BR	BEDROOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN

C	
CAB	CABINET
CC	CUBICAL CURTAINS
CD	CONSTRUCTION DOCUMENTS
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
CFS	COLORED/SEALED/STAINED CONCRETE
CFS	CORK FLOOR SHEET
CFT	CORK FLOOR TILE
CG	CORNER GUARD
CG	CORNER GUARDS
CHRL	CHAIR RAIL
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COIL	COILING DOOR
COL	COLUMN
COMP	COMPOSITE / COMPOSITION

C CONT	
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CPTD	COMMON PATH TRAVEL DISTANCE
CR	CURTAIN ROD
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTOP	COUNTER TOP
CTR	CENTER
CTW	CERAMIC TILE WALL
CU	CUBIC
CY	CUBIC YARD

D	
D	DEPTH / CLOTHES DRYER
d	PENNY (NAILS)
dB	DECIBLE
DBL	DOUBLE
DEMO	DEMOLISH / DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER

E	
E	EAST
EA	EACH
EB	EXPANSION BOLT
EC	ELECTRICAL CONTRACTOR
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EP	ELECTRICAL PANEL / END PANEL
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EQUIP	EQUIPMENT
ESD	ELECTRO STATIC DISCHARGE VINYL TILE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXA	EXIT ACCESS
EXD	EXIT DISCHARGE
EXT	EXTERIOR

F	
F	FAHRENHEIT
F/R	FIRE RATED
FB	FIRE BARRIER
FBD	FIBER BOARD
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FG	FLOAT GLASS
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR
FOF	FACE OF FINISH
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIRE PROTECTION / FIRE PARTITION
FR	FIRE RESISTANT
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PANEL
FRZ	FREEZER
FT	FEET / FIRE TREATED
FTG	FOOTING
FURN	FURNISH / FURNISHINGS
FURR	FURRING
FUT	FUTURE
FW	FIRE WALL
FWP	FABRIC WRAP PANEL

G	
G	GENERAL
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDC	GYMNASIUM DIVIDER CURTAINS
GL	GLASS / GLAZING / GLAZED
GLAM	GLUE-LAMINATED WOOD
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

H	
H	HIGH
HC	HOLLOW CORE
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HEX	HORIZONTAL EXIT
HM	HOLLOW METAL
HNR	HANDRAILS
HOLD	HOLD TO INDICATED DIMENSION
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HSKP	HOUSEKEEPING
HT	HEIGHT

I	
ID	INSIDE DIAMETER / INSIDE DIMENSION
IG	INSULATING GLASS
IJ	ISOLATION JOINT
IN	INCHES
INFO	INFORMATION
INSP	INSPECTION / INSPECTOR
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
INT STN	INTERIOR STONEWORK
IR	IMPACT RESISTANT
IRD	IMPACT RESISTANT DOORS
ISO	ISOLATION / INTERNATIONAL STANDARDS ORGANIZATION

J	
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT

K	
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE

L	
L	LEFT / LENGTH
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LH	LEFT-HAND
LHR	LEFT-HAND REVERSED
LKR	LOCKER
LP	LOW POINT
LR	LIVING ROOM
LSC	NFPA 101 LIFE SAFETY CODE
LSG	LAMINATED SAFETY GLASS
LT	LIGHT
LTWT	LIGHTWEIGHT
LVT	LUXURY VINYL TILE

M	
MA	MEDICAL AIR
MACH	MACHINE
MAINT	MAINTENANCE / MAINTAIN
MAS	MASONRY
MAX	MAXIMUM
MBR	MASTER BEDROOM
MC	MECHANICAL CONTRACTOR
MCW	MINERAL CORE WOOD
MDF	MEDIUM-DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDICAL / MEDICINE
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER / MANUFACTURING
MIN	MINIMUM / MINUTE

M CONT	
MIRR	MIRROR
MISC	MISCELLANEOUS
MKBD	MARKER BOARD
MO	MASONRY OPENING
MOD	MODIFY / MODULE
MP	METAL PANEL
MTC	METAL TOILET COMPARTMENT
MTD	MOUNTED
MTL	METAL
MTRL	MATERIAL
MULL	MULLION
MULT	MULTIPLE
MWP	MODULAR/FOLDING PARTITION

N	
N	NORTH / NITROGEN
N2O	NITROUS OXIDE
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOT RATED
NTS	NOT-TO-SCALE

O	
O2	OXYGEN
O/C	ON-CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER / OUTSIDE DIMENSION
OFCI	OWNER FURNISHED AND CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OFOI	OWNER FURNISHED AND OWNER INSTALLED
OH	OVERHEAD
OL	OCCUPANT LOAD
OLF	OCCUPANT LOAD FACTOR
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OZ	OUNCE

P	
P	POWER
PA	PUBLIC ADDRESS
PB	PARTICLE BOARD
PC	PRECAST
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PLATE GLASS
PH	PHASE
PIR	POLYISOCYANURATE RIGID INSULATION
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POL	POLISH
PP	PUSH PLATE
PR	PAIR
PREFAB	PREFABRICATE
PROV(D)	PROVIDE(D)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESERVATIVE TREATED / POINT / POST-TENSIONED
PTC	PLASTIC TOILET COMPARTMENT
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWC	PROTECTIVE WALL COVERING

Q	
QT	QUARRY TILE
QTR	QUARTER

R	
R	RISER / RADIUS
R&S	ROD & SHELF
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN / ROAD
REBAR	REINFORCING BAR
REC	RECESSED
RECEP	RECEPTION
RECEPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTRATION / REGISTER
REINF	REINFORCED
REM	REMOVE / REMOTE
REQ(D)	REQUIRE(D)
RES	RESILIENT
RES	RESINOUS FLOORING
RET	RETAINING / RETURN
REV	REVERSE / REVISION
RH	RIGHT HAND
RL	RAINLEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RSF	RESILIENT SHEET FLOOR
RTF	RESILIENT TILE FLOOR

S	
S	SOUTH / SHELF
SAFB	SOUND ATTENUATION FIRE BLANKET
SB	SMOKE BARRIER
SC	SOLID CORE / SHOWER CURTAINS / SMOKE COMPARTMENT
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCS	SPECIALTY CEILING SYSTEM (WOOD/METAL)
SCWD	SOLID CORE WOOD DOOR
SCX	SMOKE COMPARTMENT EXIT
SD	SOAP DISPENSER / SEE DETAIL
SEC	SECOND
SECT	SECTION
SF	SQUARE FEET
SGC	STAGE CURTAINS
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SL	SLOPE
SLNT	SEALANT
SND	SANITARY NAPKIN DISPENSER
SNW	SANITARY NAPKIN WASTE RECEPTICAL
SP	SPANDREL PANEL / SMOKE PARTITION
SPEC	SPECIFICATION
SQ	SQUARE
SSF	SOLID SURFACE
SSTL	STAINLESS STEEL
ST	STONE
STA	STATION
STC	SOUND-TRANSMISSION CLASS
STD	STANDARD
STE	SUITE
STL	STEEL
STN	WOOD STAINING
STOR	STORAGE
STR	STAIR TREADS/RISERS
STRUCT	STRUCTURE / STRUCTURAL
STX	SUITE EXIT
SURF	SURFACE
SUSP	SUSPENDED
SWP	SOUND WALL PANEL
SYM	SYMMETRICAL

T	
T	TOP / TREAD / TILE
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TA	TOILET ACCESSORIES
TB	TOWEL BAR
TBD	TO BE DETERMINED
TDX	TRAVEL DISTANCE TO EXIT
TEL	TELEPHONE
TEMP	TEMPERED / TEMPORARY / TEMPERATE
TER	TERRAZZO
TFE	TOP OF FOOTING ELEVATION
TFF	TOP OF FINISH FLOOR
TG	TEMPERED GLASS
THK	THICK
THS	THRESHOLD
TIE	TOP OF JOIST ELEVATION
TKBD	TACK BOARD
TLT	TOILET
TO	TOP OF
TOL	TOLERANCE
TOPO	TOPOGRAPHICAL
TPD	TOILET PAPER DISPENSER
TRS	TRANSITION STRIPS
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATOIN
TYP	TYPICAL

U	
UC	UNDER COUNTER
UG	UNDERGROUND
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPH	FABRIC/VINYL
UTIL	UTILITY

V	
V	VINYL
VAC	VACUUM
VAR	VARIABLE / VARNISH / VARIES
VCT	VINYL-COMPOSITION TILE
VER	VERIFY
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VWC	VINYL WALL COVERING

W	
W	WEST / WIDE / CLOTHES WASHER
W/	WITH / WHERE
W/O	WITHOUT
WAIN	WAINSCOT
WC	WATER CLOSET
WD	WOOD
WDT	WINDOW TREATMENTS
WDW	WINDOW
WG	WALL GUARD
WH	WATER HEATER / WALL HYDRANT
WP	WATER PROOF
WR	WASTE RECEPTICALE
WRL	WALL RAIL
WS	WEATHER STRIPPING
WT	WEIGHT

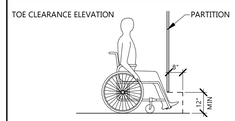
X	
XFMR	POWER TRANSFORMER
XPS	EXTRUDED POLYSTYRENE

Y	
YD	YARD

SPECIAL SYMOBLS	
#	POUND / NUMBER
/	PER
@	AT
°	DEGREE
Ø	DIAMETER
℄	CENTERLINE
∠	ANGLE
⊥	PERPINDICULAR

TYPICAL FIXTURE MOUNTING HEIGHTS & LOCATIONS

NOTE: DIMENSIONS SHOWN ARE TO FINISHED SURFACE (I.E. FACE OF TILE)
NOTE: ALL DIMENSION RANGES REPRESENT THE MINIMUM & MAXIMUM UNLESS SPECIFIED OTHERWISE (I.E. 36" - 48")

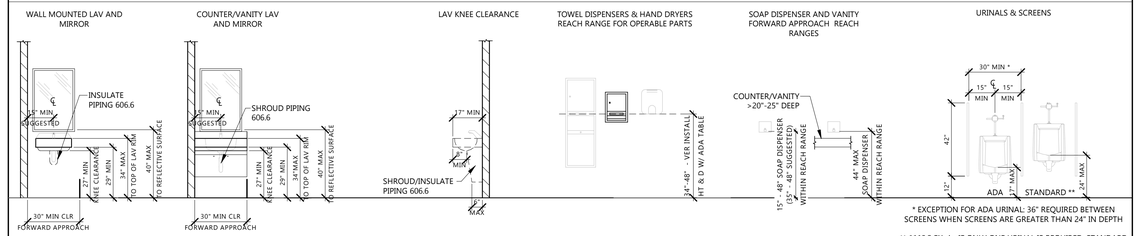


*TOE CLEARANCE AT WHEELCHAIR ACCESSIBLE COMPARTMENTS
THE FRONT PORTION AND AT LEAST ONE SIDE PARTITION OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL PROVIDE A CLEARANCE OF 12" MINIMUM ABOVE THE FLOOR AND EXTEND 8" BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS.

EXCEPTIONS:
1. TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT GREATER THAN 64" IN DEPTH WITH A WALL HUNG WATER CLOSET, OR GREATER THAN 67" IN DEPTH WITH A FLOOR-MOUNTED WATER CLOSET.
2. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A WHEEL CHAIR ACCESSIBLE TOILET COMPARTMENT GREATER THAN 68" WIDTH.

TYPICAL FIXTURE MOUNTING HEIGHTS & LOCATIONS

NOTE: DIMENSIONS SHOWN ARE TO FINISHED SURFACE (I.E. FACE OF TILE)
NOTE: ALL DIMENSION RANGES REPRESENT THE MINIMUM & MAXIMUM UNLESS SPECIFIED OTHERWISE (I.E. 36" - 48")

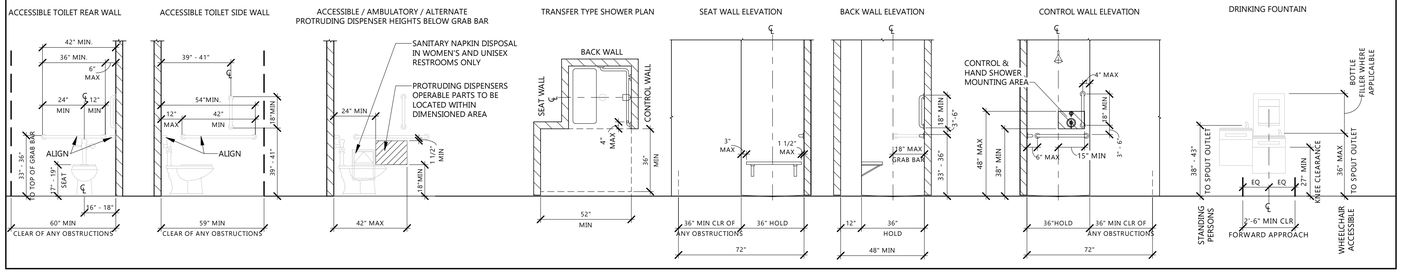


* EXCEPTION FOR ADA URINAL: 36" REQUIRED BETWEEN SCREENS WHEN SCREENS ARE GREATER THAN 24" IN DEPTH

** 1110.2 EX: 4 - IF ONLY ONE URINAL IS REQUIRED, STANDARD INSTALLATION HEIGHT IS ALLOWED

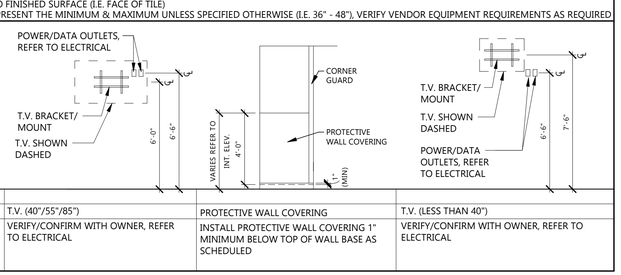
TYPICAL FIXTURE MOUNTING HEIGHTS & LOCATIONS

NOTE: DIMENSIONS SHOWN ARE TO FINISHED SURFACE (I.E. FACE OF TILE)
NOTE: ALL DIMENSION RANGES REPRESENT THE MINIMUM & MAXIMUM UNLESS SPECIFIED OTHERWISE (I.E. 36" - 48")



TYPICAL EQUIPMENT MOUNTING HEIGHTS & LOCATIONS

NOTE: DIMENSIONS SHOWN ARE TO FINISHED SURFACE (I.E. FACE OF TILE)
NOTE: ALL DIMENSION RANGES REPRESENT THE MINIMUM & MAXIMUM UNLESS SPECIFIED OTHERWISE (I.E. 36" - 48"), VERIFY VENDOR EQUIPMENT REQUIREMENTS AS REQUIRED

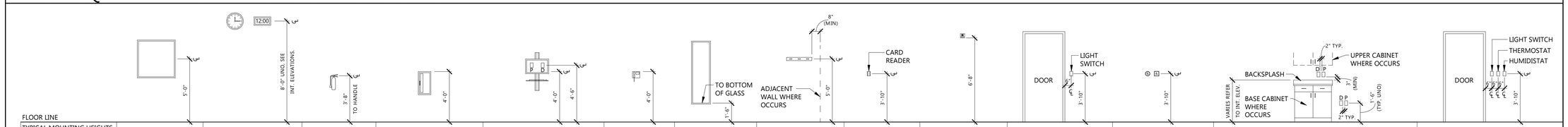


FLOOR LINE

TYPICAL MOUNTING HEIGHTS			
DESCRIPTION	T.V. (40"/55"/85")	PROTECTIVE WALL COVERING	T.V. (LESS THAN 40")
NOTES	VERIFY/CONFIRM WITH OWNER, REFER TO ELECTRICAL	INSTALL PROTECTIVE WALL COVERING 1" MINIMUM BELOW TOP OF WALL BASE AS SCHEDULED	VERIFY/CONFIRM WITH OWNER, REFER TO ELECTRICAL

TYPICAL EQUIPMENT MOUNTING HEIGHTS & LOCATIONS

NOTE: DIMENSIONS SHOWN ARE TO FINISHED SURFACE (I.E. FACE OF TILE)
NOTE: ALL DIMENSION RANGES REPRESENT THE MINIMUM & MAXIMUM UNLESS SPECIFIED OTHERWISE (I.E. 36" - 48"), VERIFY VENDOR EQUIPMENT REQUIREMENTS AS REQUIRED



FLOOR LINE

TYPICAL MOUNTING HEIGHTS														
DESCRIPTION	TACK OR MARKER BOARD	WALL CLOCK	FIRE EXTINGUISHER (FE)	FIRE EXTINGUISHER CABINET (FEC)	WALL MOUNTED COMPUTER STATION	WALL PHONE	MIRROR (DRESSING)	MOP HOLDER	CARD READER	FIRE ALARM	LIGHT SWITCH	PUSH PLATE	RECEPTACLES (POWER & DATA)	THERMOSTAT & HUMIDISTAT
NOTES		ANALOG AND DIGITAL SHOWN			VERIFY/CONFIRM WITH OWNER, REFER TO ELECTRICAL. P = POWER RECEPTACLE D = DATA RECEPTACLE	REFER TO ELECTRICAL	TEMPERED GLASS		REFER TO ELECTRICAL	WALL MOUNTED SHOWN, REFER TO ELECTRICAL	AT DOOR LOCATION, REFER TO ELECTRICAL	REFER TO DOOR HARDWARE GROUPS, REFER TO ELECTRICAL	REFER TO ELECTRICAL RECEPTACLES ABOVE COUNTERTOP TO BE 3" MINIMUM FROM TOP OF BACKSPLASH TO BOTTOM OF RECEPTACLE FINISH COVER PLATE, REFER TO INTERIOR ELEVATIONS P = POWER RECEPTACLE; D = DATA RECEPTACLE	AT DOOR LOCATION, REFER TO MECHANICAL

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: MS
CHECKED BY: BD

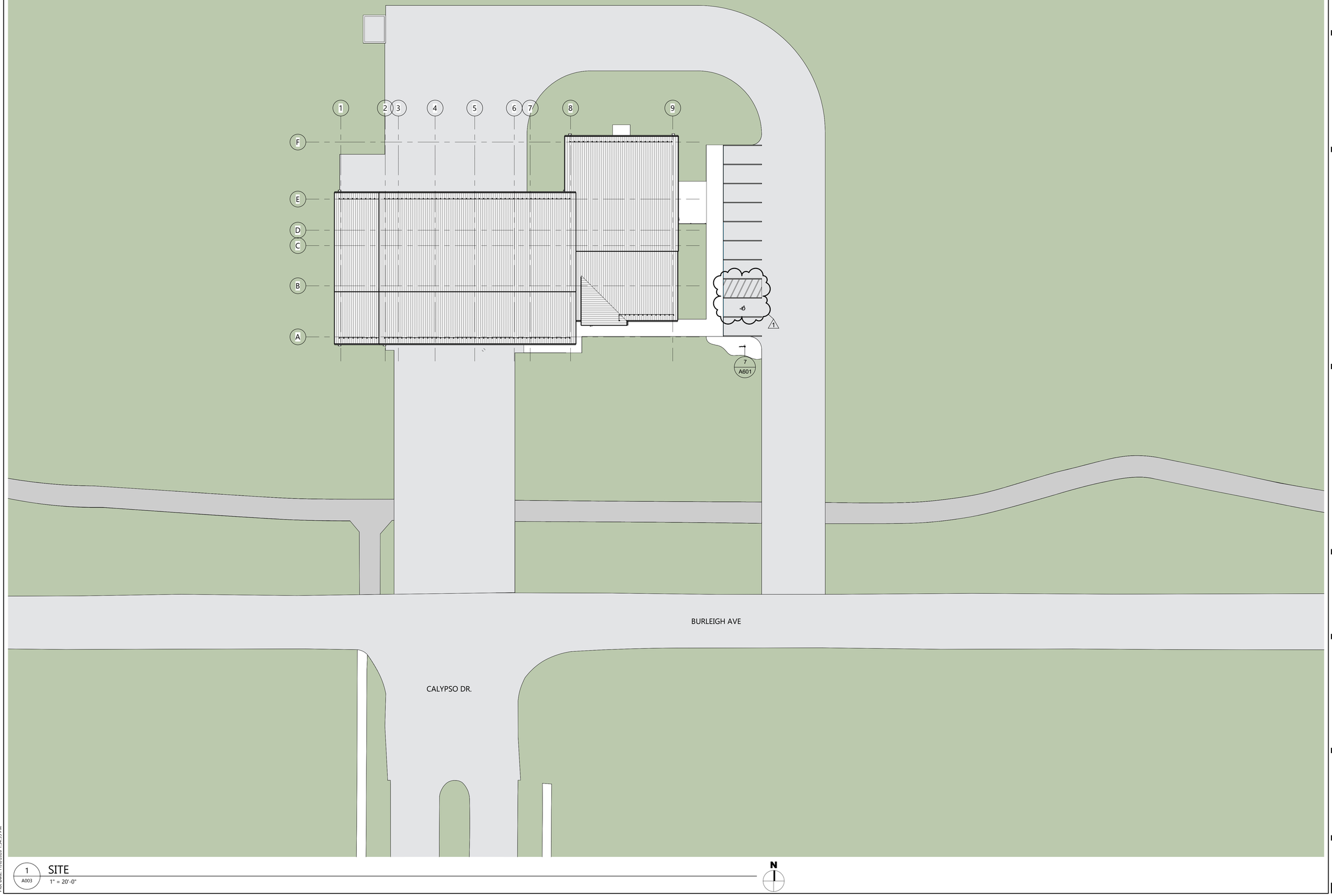
COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
GENERAL ARCHITECTURAL INFORMATION

A001

Revit Version: 2025
Plot Date: 11/6/2026 1:54:43 PM



1 A003 SITE
1" = 20'-0"

N

Revit Version: 2025
Plot Date: 11/6/2026 1:14:51 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: MS
CHECKED BY: BD

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
SITE PLAN

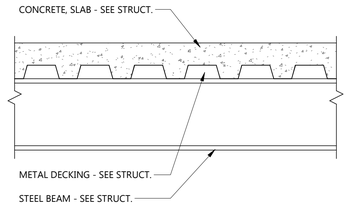
A003

GENERAL INTERIOR PARTITION NOTES

1. SEE FLOOR PLANS FOR EXTENT OF EACH WALL
2. ON ALL RESTROOM WALLS AND OTHER AREAS SCHEDULED TO RECEIVE FRP OR TILE FINISH, PROVIDE A MINIMUM OF MOISTURE-RESISTANT GYPSUM BOARD.
3. ALL PARTITIONS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
4. WHERE GYPSUM BOARD EXTENDS TO UNDERSIDE OF STRUCTURE ABOVE, STOP GYPSUM BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED.
5. REFERENCE FLOOR FINISH PLANS AND WALL FINISH PLANS FOR ADDITIONAL FINISHES NOT INDICATED ON PARTITION TYPES.
6. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL PENETRATIONS. SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT.
7. PROVIDE FIRE-TREATED WOOD OR STEEL BACKING FOR ALL WALL-MOUNTED FINISH CARPENTRY, ARCHITECTURAL WOODWORK, TOILET PARTITIONS, ACCESSORIES AND OTHER SIMILAR ITEMS.

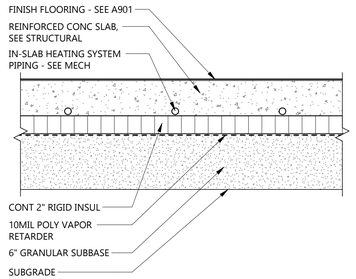
FIRE-RATED PARTITION NOTES:

1. ALL PARTITIONS NOTED TO BE FIRE-RESISTANCE RATED SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FIRE RESISTANCE TESTS.
2. FIRE-RATED PARTITIONS SHALL BE CONSTRUCTED BEFORE NON-RATED PARTITIONS.
3. ALL FIRE-RATED PARTITIONS TO EXTEND FROM TOP OF UNFINISHED FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. SEAL TOP, BOTTOM AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.
4. ALL PENETRATIONS IN FIRE-RATED PARTITIONS SHALL BE SEALED WITH MATERIALS, SEALANTS AND/OR ASSEMBLIES WHICH MAINTAIN THE FIRE-RESISTANCE RATING OF THE PARTITION



R2 FLOOR ASSEMBLY TYPE R2

(TYPICAL AT MEZZANINE)

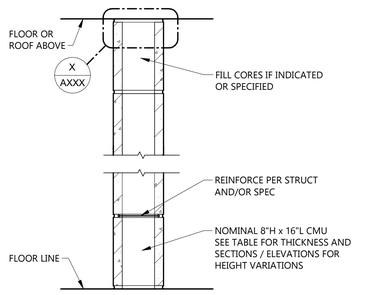


R1 FLOOR ASSEMBLY TYPE R1

(TYPICAL AT HEATED SLAB AREAS)

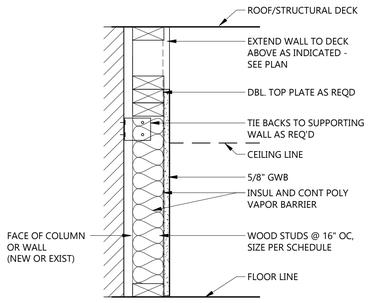
ROOF TYPE x

R1 ROOF TYPE



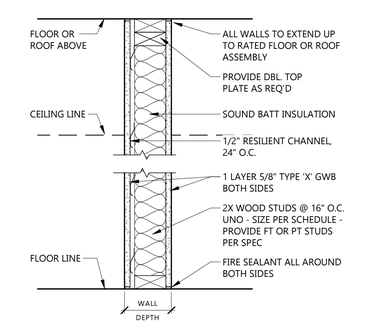
TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	
M4		3 5/8"						
M6		5 5/8"	1-HR	U906				
M8		7 5/8"	1-HR	U906				
MC		11 5/8"	1-HR	U906				

M MASONRY PARTITION (SINGLE WYTHE CMU)



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	
K4	3 1/2"	4 1/8"	NR					
K6	5 1/2"	6 1/8"	NR					

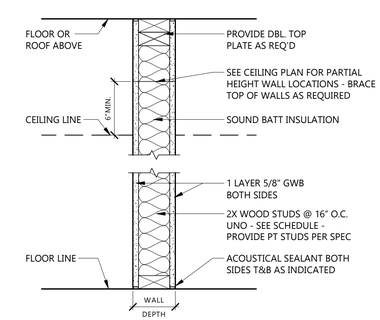
K NON-RATED WOOD STUD FURRED WALL



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	
D5	3 1/2"	4 3/4"	1-HR FB	UL U305	-	-	-	2X4
D7	5 1/2"	6 3/4"	1-HR FB	UL U305	-	-	-	2X6
D9	7 1/4"	8 1/2"	1-HR FB	UL U305	-	-	-	2X8

SEE LIFE SAFETY PLAN FOR 1/2-HOUR F.R. ASSEMBLY TYPES AND LOCATIONS

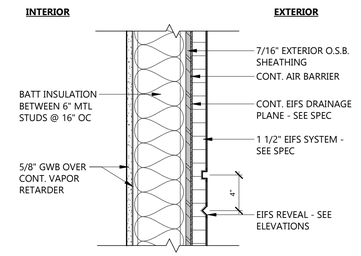
D 1/2-HOUR RATED GWB ON WOOD STUDS



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	
B5	3 1/2"	4 3/4"	NR	-	3 1/2"	-	-	2x4
B7	5 1/2"	6 3/4"	NR	-	5 1/2"	-	-	2x6
B9	7 1/4"	8 1/2"	NR	-	5 1/2"	-	-	2x8

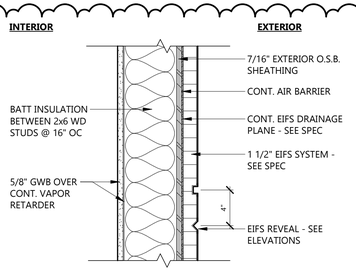
SEE LIFE SAFETY PLAN FOR N.R. SMOKE-RESISTIVE WALL LOCATIONS

B NON-RATED GWB ON WOOD STUDS



SEE ELEVATIONS FOR EIFS REVEALS AND JOINTS

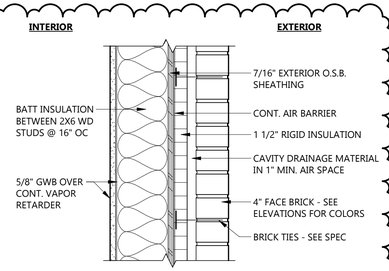
E5 EIFS ON MTL STUD BACKUP



SEE ELEVATIONS FOR EIFS REVEALS AND JOINTS

E4.2 - BATT INSULATION BETWEEN 2X8 WD STUDS @ 16" OC

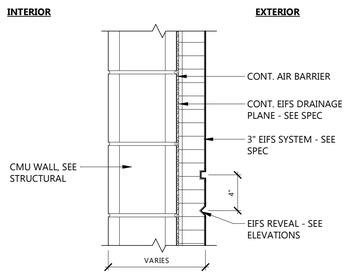
E4.1 EIFS ON WOOD STUD BACKUP



SEE ELEVATIONS AND SECTIONS FOR BRICK COURSING

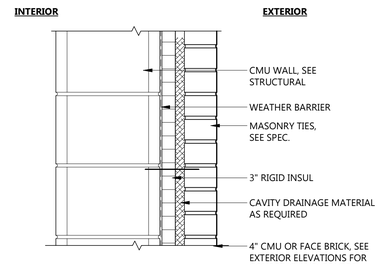
E3.2 - BATT INSULATION BETWEEN 2X8 WD STUDS @ 16" OC

E3.1 EXTERIOR BRICK ON WD STUD BACKUP



SEE ELEVATIONS FOR EIFS REVEALS AND JOINTS

E2 EIFS ON CMU BACKUP



SEE EXTERIOR ELEVATIONS AND SECTIONS FOR COURSING

E1 EXTERIOR BRICK ON CMU BACKUP

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: MS
CHECKED BY: BD

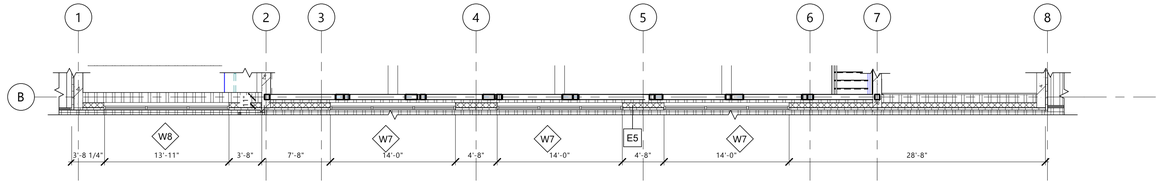
COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
WALL, FLOOR AND ROOF TYPES

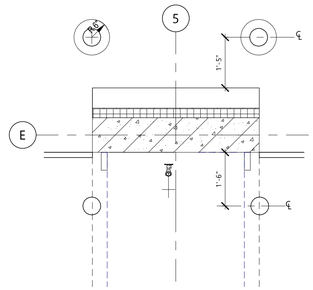
A021

Revit Version: 2025
Plot Date: 11/6/2026 1:54:55 PM



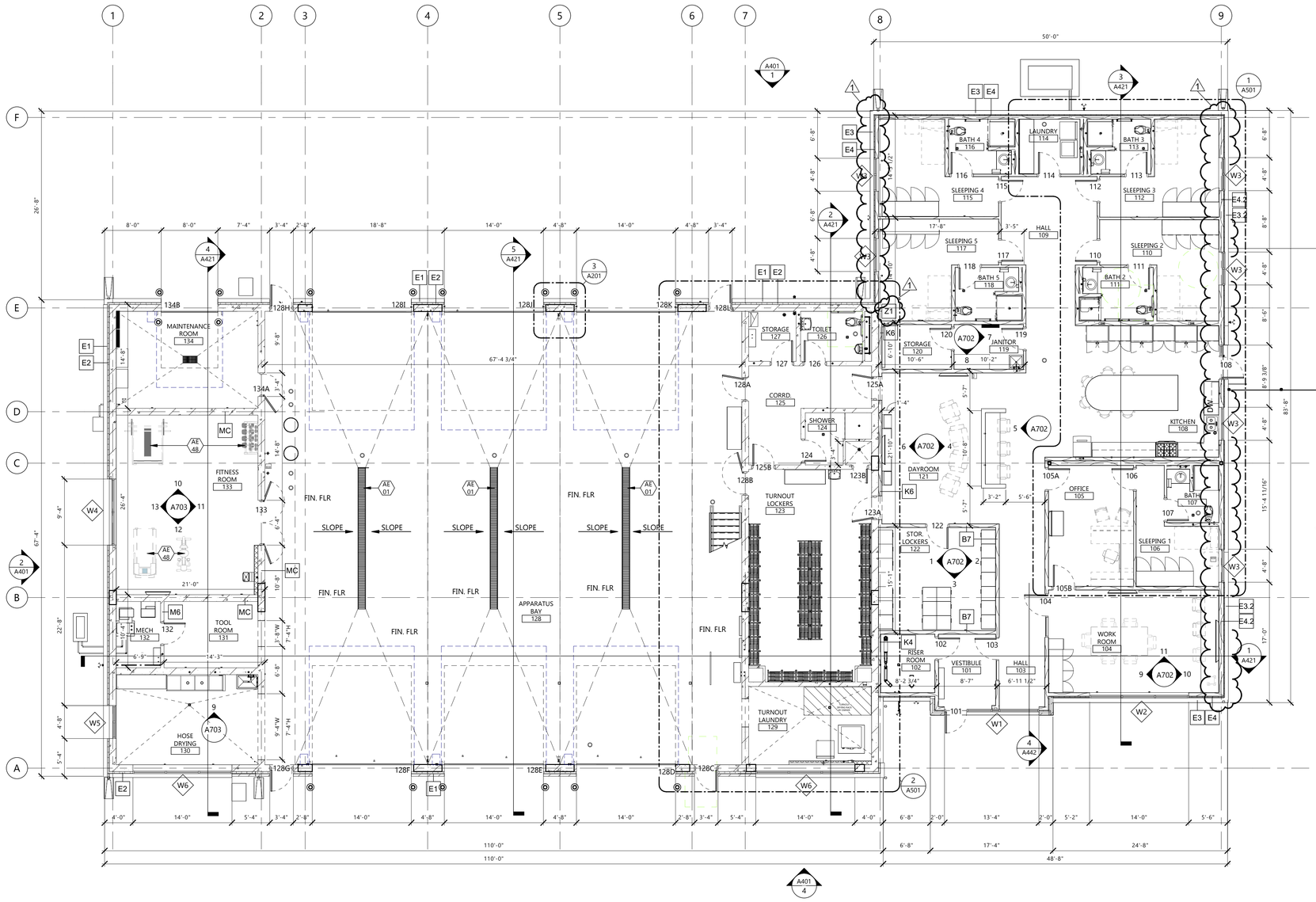
4 A201 APPARTUS CLERESTORY - RIBBON WINDOW PLAN

1/8" = 1'-0"



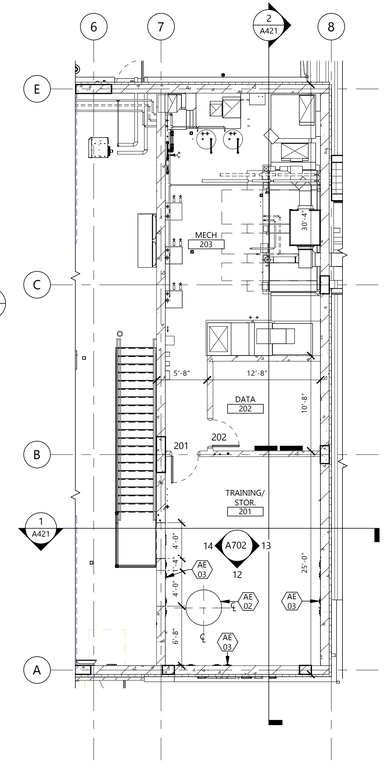
3 A201 TYP. BOLLARD PLAN DETAIL

1/2" = 1'-0"



2 A201 FIRST FLOOR PLAN

1/8" = 1'-0"



1 A201 MEZZANINE FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL DRAWING SETS
2. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDINGS DOCUMENTS.
3. CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY DRAWING OF DETAIL WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
4. REVIEW SPECIFICATIONS FOR INSTRUCTIONS NOT SHOWN ON DRAWINGS. INFORMATION COMMON TO SEVERAL DRAWINGS MAY BE NOTED ON ONLY ONE. CONTRACTOR IS RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS.
5. DIMENSIONS AT INTERIOR CMU BLOCK PARTITIONS ARE TO FACE OF WALL TO FACE OF WALL. DIMENSIONS AT INTERIOR STUD PARTITIONS ARE TO THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.
6. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR TO VERIFY ALL DIMENSIONS & FIELD CONDITIONS PRIOR TO COMMENCING THE WORK.
7. REFER TO INTERIORS SHEET A901 FOR CORNER GUARD LOCATIONS AND DETAILS, FOR WALL PROTECTION AND HAND RAIL LOCATIONS AND DETAILS.
8. CAULK ALL COUNTERTOPS, BACKSPLASHES & CABINETS AT LOCATIONS WHERE THEY MEET WALL. SEAL ALL CUT-OUTS IN COUNTERTOPS.
9. ALL PIPING, CONDUITS, &RELATED MECHANICAL & ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN DRYWALL AND/OR PLASTER FURRING AS REQUIRED IN FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR NOT UNLESS OTHERWISE NOTED.
10. SEAL AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT PENETRATIONS AT RATED WALLS, ABOVE & BELOW CEILINGS, WITH A UL APPROVED FIRE-STOPPING MATERIAL - SEE SPECIFICATIONS.
11. WHEN WALL PARTITIONS OF DIFFERENT RATING INTERSECT, THE HIGHEST RATED PARTITIONS TAKE PRECEDENT.
12. ALL FURNITURE FOR REFERENCE ONLY (SHOWN DASHED) WILL BE OWNER FURNISHED & OWNER INSTALLED.
13. RADIUS EXPOSED COUNTERTOP CORNERS 2" RADIUS TYPICALLY. (2" WHERE 3MM EDGE BANDING, 1" RADIUS AT SSF EDGES.) U.N.O.
14. WALLS ARE TYPE 'B5' WALL PARTITIONS WITHIN THE OFFICE AREA AND LIVING QUARTERS; 'M8' WITHIN APPARATUS, TURNOUT, AND GEAR STORAGE UNLESS NOTED OTHERWISE. SEE WALL TYPES SHEET A021.
15. REFER TO LIFE SAFETY PLANS AND FLOOR PLANS FOR LOCATION OF REQUIRED FIRE WALLS.
16. REFER TO ELEVATIONS FOR WALL MOUNTED EQUIPMENT. PROVIDE IN-WALL BLOCKING AS REQUIRED
17. FLOOR ELEVATION 100'-0" = 39.50 ON CIVIL DRAWINGS.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

AE 01	TRENCH DRAIN, SEE P201, P501, AND P801 FOR ADDITIONAL INFORMATION.
AE 02	MANHOLD (NEENAH R-1792-JL) IN MEZZANINE FLOOR, SEE 6/A601 FOR ADDITIONAL INFORMATION.
AE 03	TRAINING TIE-OFF ATTACHMENT, SEE 7/S702 FOR ADDITIONAL INFORMATION COODINATE FINAL LOCATION WITH OWNER AND MANHOLE LOCATION.
AE 48	FITNESS ROOM EQUIPMENT, OWNER PROVIDED CONTRACTOR INSTALLED.

EAPC

Architecture | Engineering
Interior Design | Industrial

TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: MS
CHECKED BY: BD

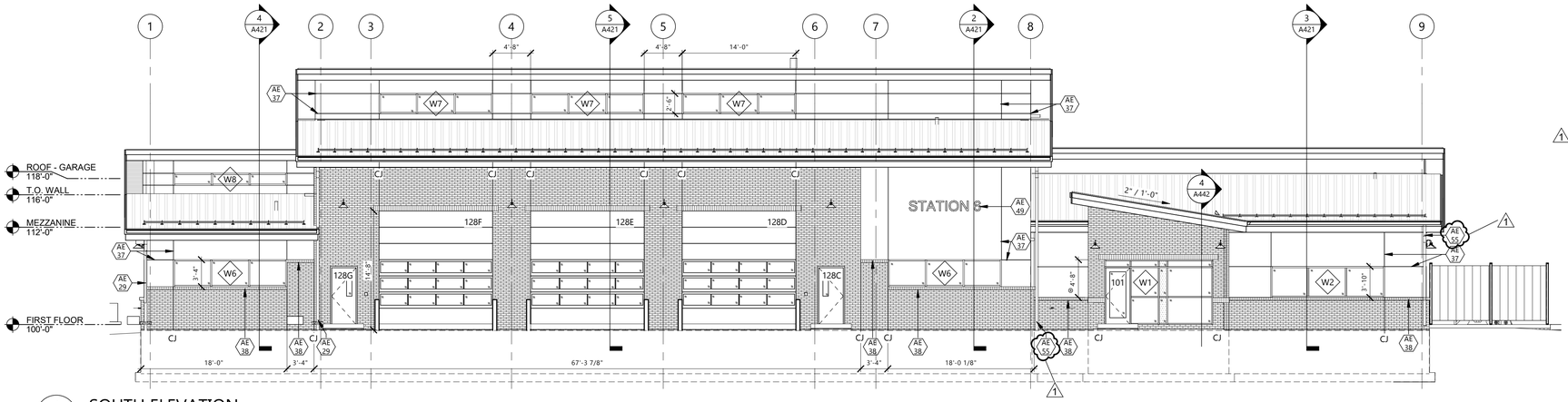
COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
FLOOR PLANS

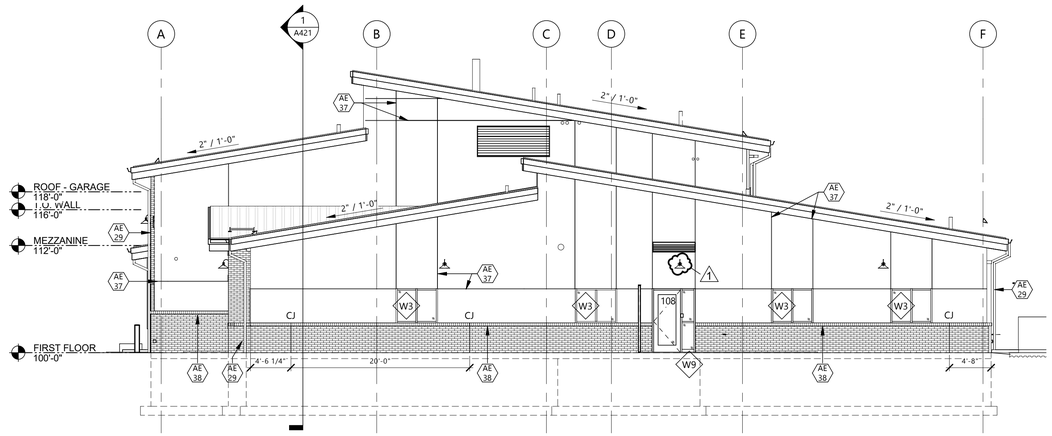
A201

Revit Version: 2025
Plot Date: 11/6/2026 1:55:00 PM



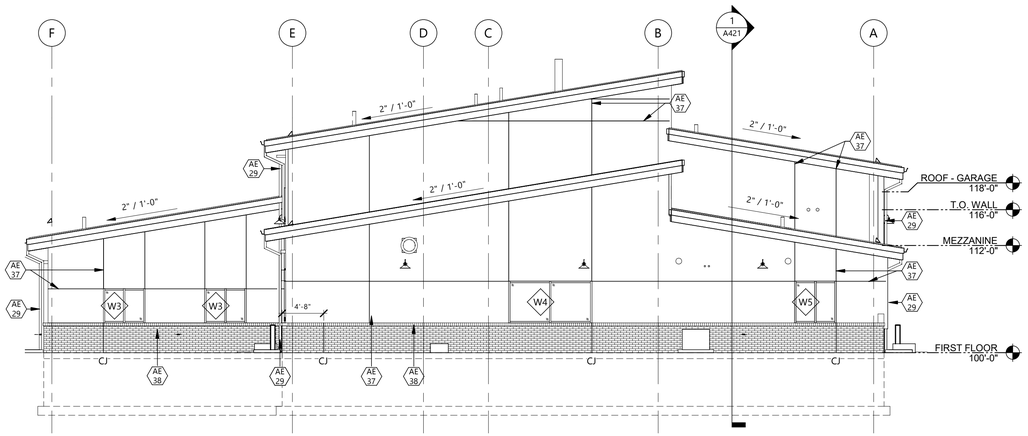
4 / A401 SOUTH ELEVATION

1/8" = 1'-0"



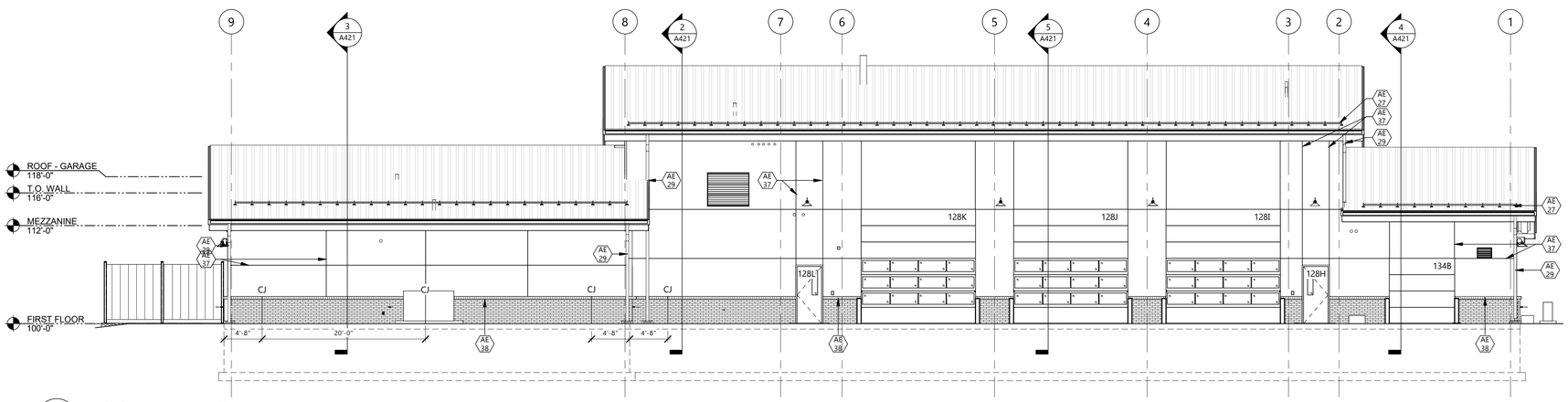
3 / A401 EAST ELEVATION

1/8" = 1'-0"



2 / A401 WEST ELEVATION

1/8" = 1'-0"



1 / A401 NORTH ELEVATION

1/8" = 1'-0"

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

AE 27 SNOW GUARDS, SEE SPECS FOR ADDITIONAL INFO.

AE 29 PRE-FINISHED DOWNSPOUT AND CONCRETE SPLASHBLOCK.

AE 37 1"w X 1/2"d RECESSED 'V' REVEAL.

AE 38 BRICK ROWLOCK CAP.

AE 49 15" TALL LETTERS, BLACK.

1 AE 55 PRE-FINISHED DOWNSPOUT. COORD. WITH CIVIL TO CONNECT WITH TRENCH DRAIN.

MATERIALS LEGEND

	COMMON	SOLDIER	STACKED	HEADER
UTILITY BRICK - HEBRON, SEE AREAS FOR COLORS				
CONCRETE				
PANEL 1				
EIFS				

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: AS, MS
CHECKED BY: BD

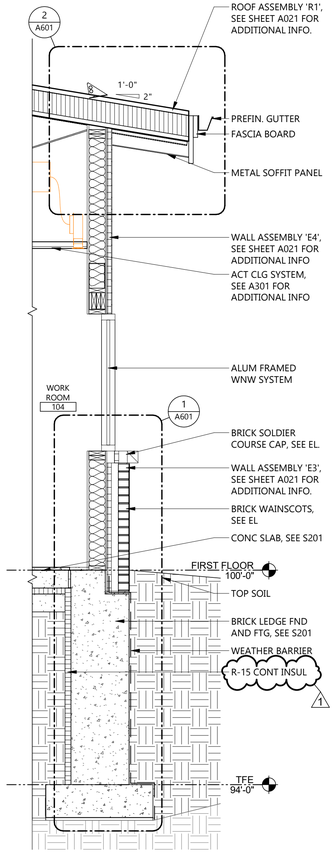
COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

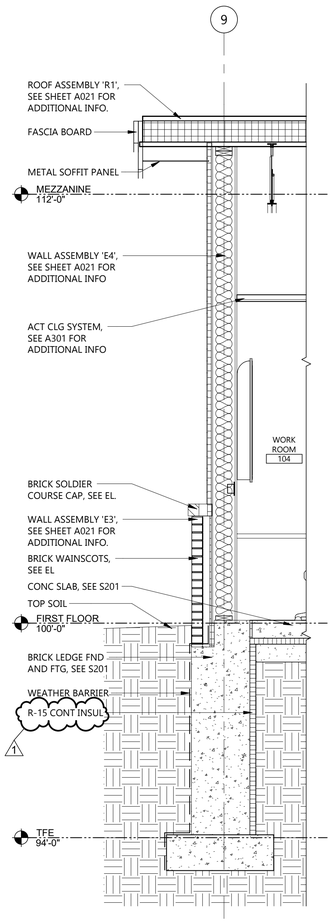
DRAWING TITLE
BUILDING ELEVATIONS

A401

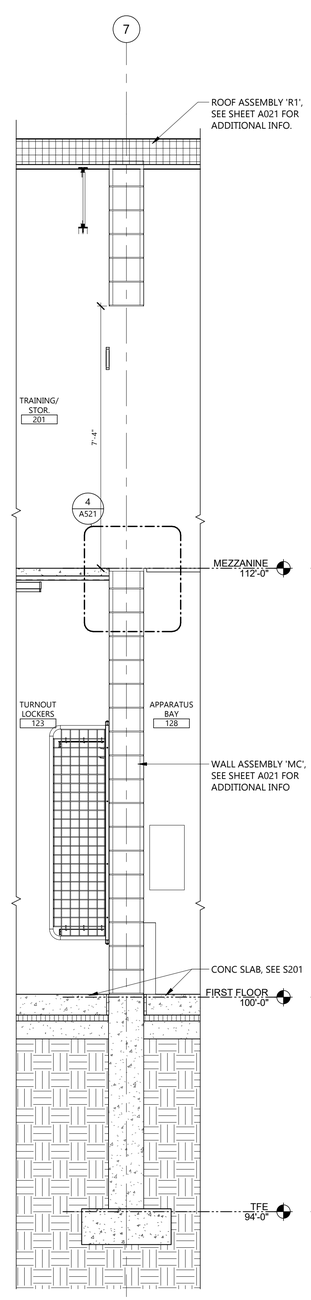
Revit Version: 2025
Print Date: 11/6/2026 1:55:03 PM



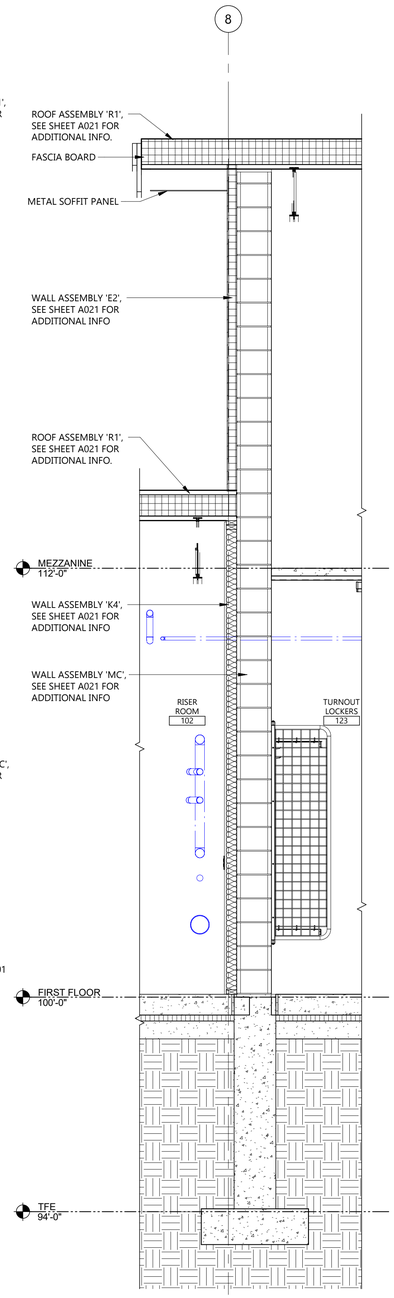
6 A441 WALL SECTION
1/2" = 1'-0"



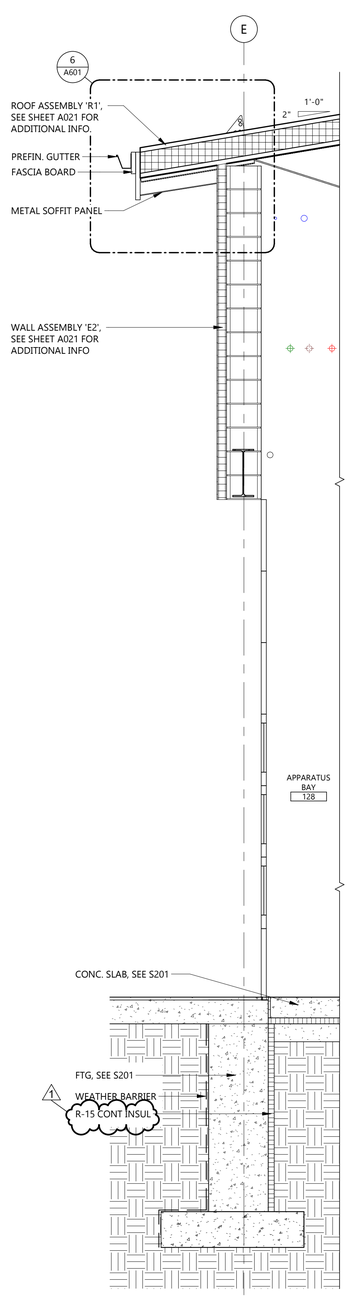
5 A441 WALL SECTION
1/2" = 1'-0"



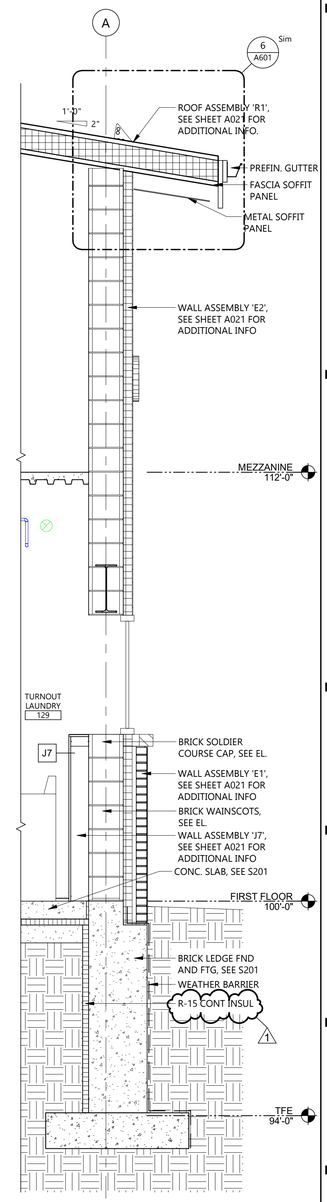
4 A441 WALL SECTION
1/2" = 1'-0"



3 A441 WALL SECTION
1/2" = 1'-0"



2 A441 WALL SECTION
1/2" = 1'-0"



1 A441 WALL SECTION
1/2" = 1'-0"

Revit Version: 2025
Plot Date: 1/16/2026 1:55:03 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

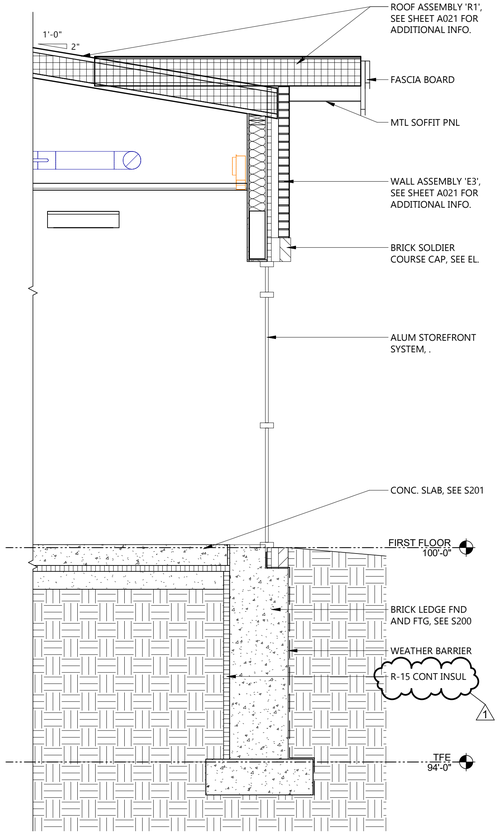
PROJECT NO: 20253510
DRAWN BY: MS
CHECKED BY: BD

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

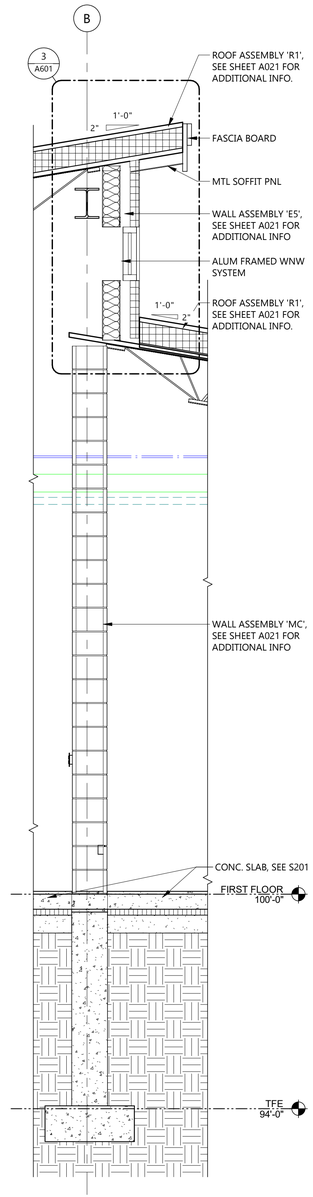
STAMP

DRAWING TITLE
WALL SECTIONS

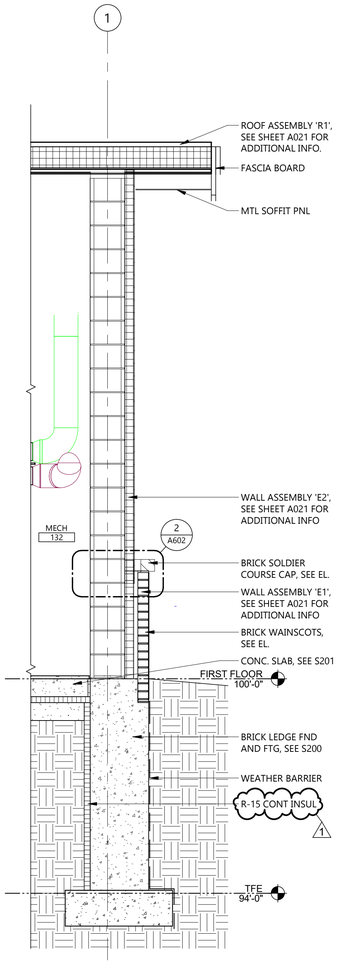
A441



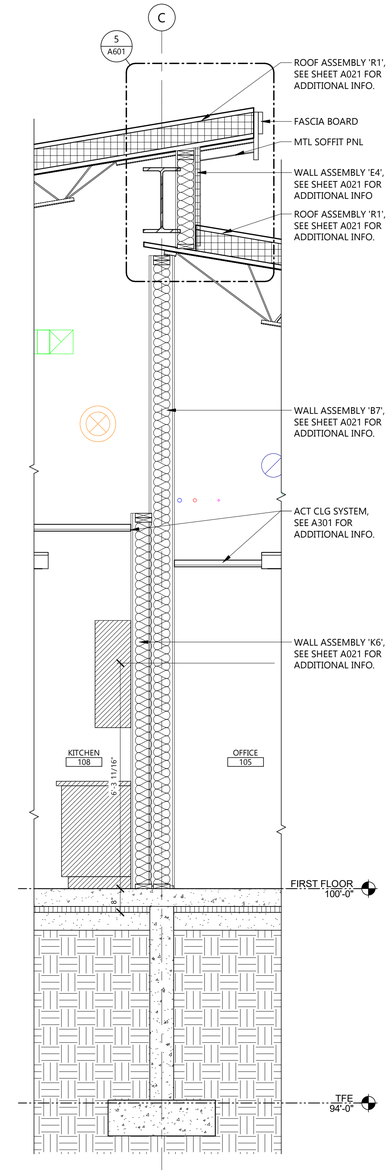
4 A442 WALL SECTION
1/2" = 1'-0"



3 A442 WALL SECTION
1/2" = 1'-0"



2 A442 WALL SECTION
1/2" = 1'-0"



1 A442 WALL SECTION
1/2" = 1'-0"

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: MS
CHECKED BY: BD

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

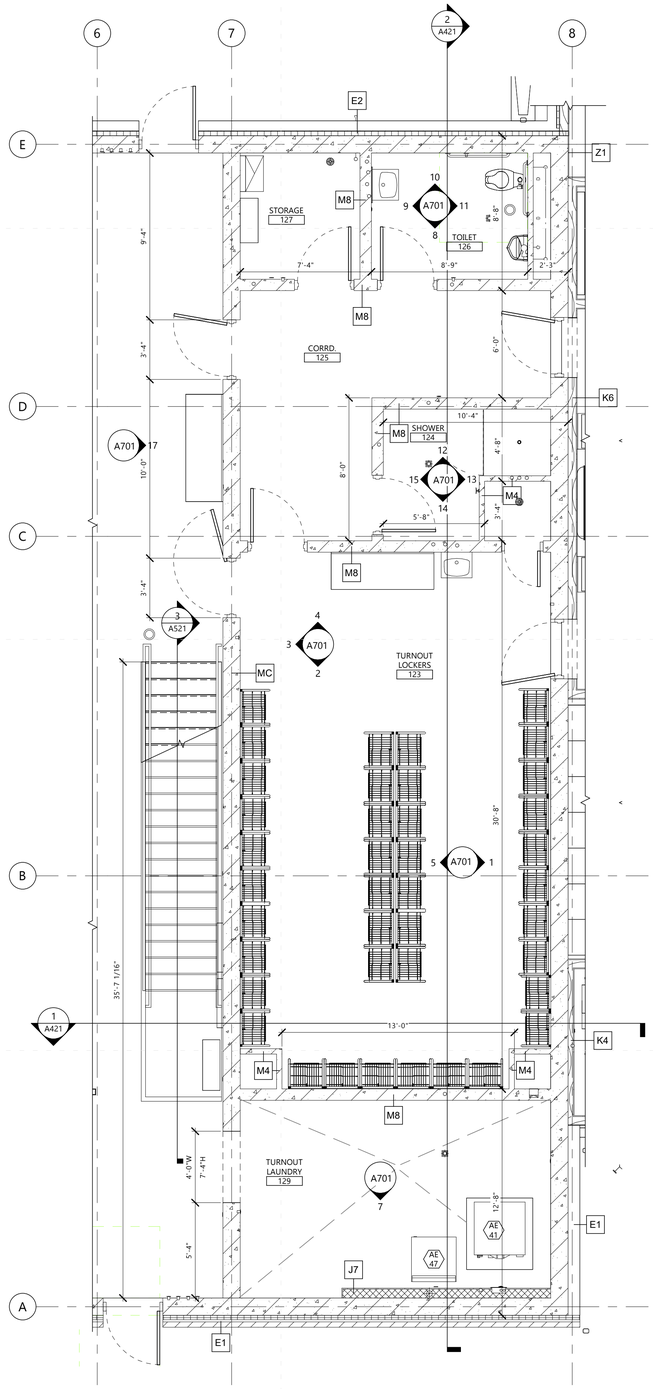
DRAWING TITLE
WALL SECTIONS

A442

Revit Version: 2025
Plot Date: 11/6/2026 1:15:04 PM

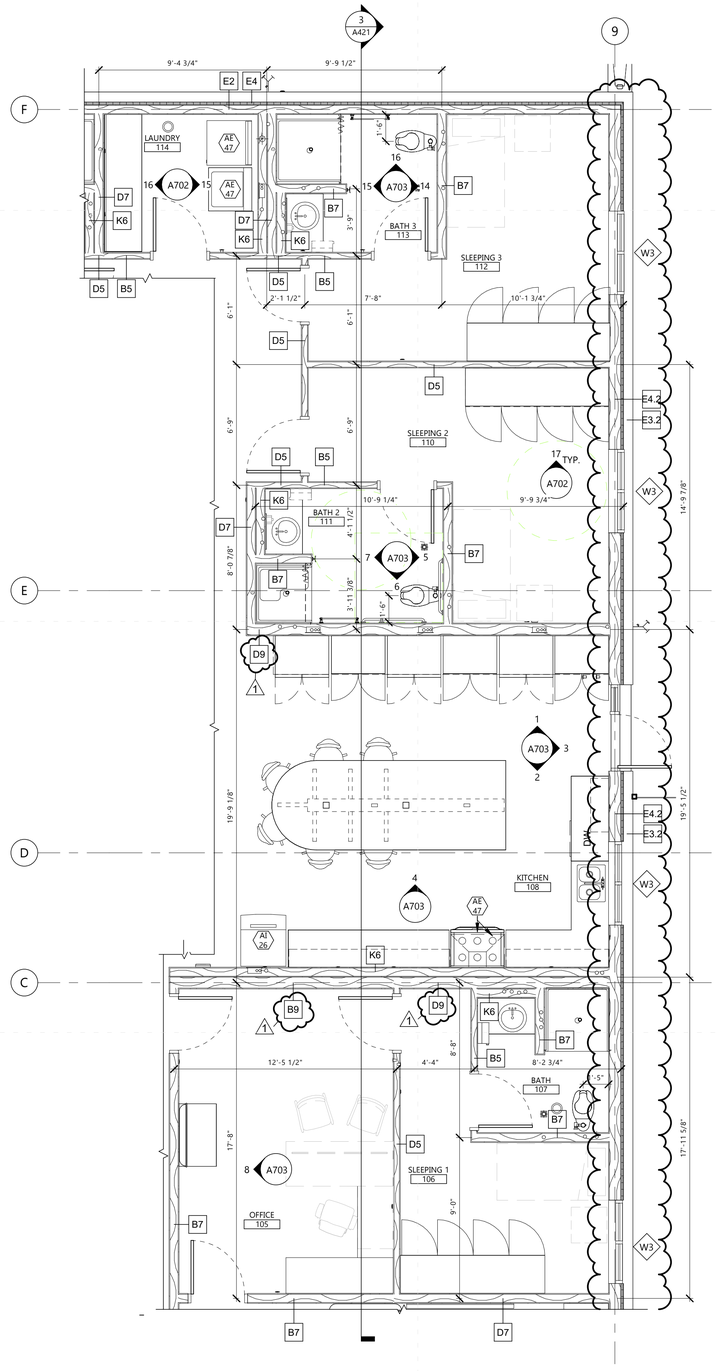
KEYNOTE LEGEND:

< < <	INDICATES KEYNOTE ON PLAN
AE 41	EXTRACTOR PROVIDED BY OWNER, INSTALLED BY GC ON CONCRETE HOUSE KEEPING PAD, SEE 13/S601 AND P201 FOR ADDITIONAL INFORMATION.
AE 47	RESIDENTIAL APPLIANCE.
AI 26	ICE MACHINE - BY OWNER



2 A501 FIRST FLOOR PLAN - TURNOUT AREA

1/4" = 1'-0"



1 A501 FIRST FLOOR PLAN - LIVING QUARTERS

1/4" = 1'-0"

EAPC

Architecture | Engineering
Interior Design | Industrial

TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: MS, BW
CHECKED BY: BD

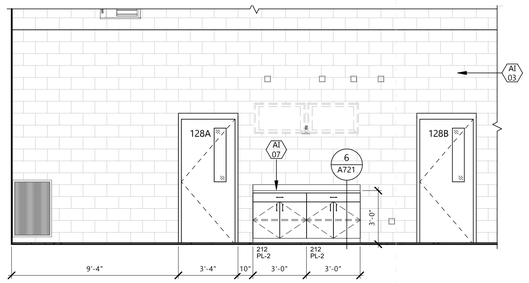
COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

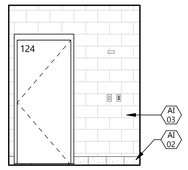
DRAWING TITLE
ENLARGED FLOOR PLANS

A501

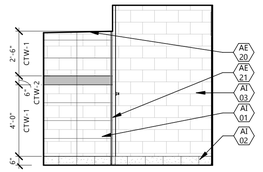
Revit Version: 2025
Plot Date: 11/6/2026 1:55:05 PM



17 A701 APPARATUS BAY 128 -EAST
1/4" = 1'-0"



15 A701 SHOWER 124 - WEST
1/4" = 1'-0"

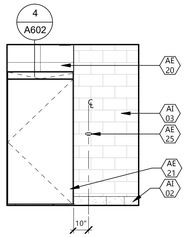


14 A701 SHOWER 124 - SOUTH
1/4" = 1'-0"

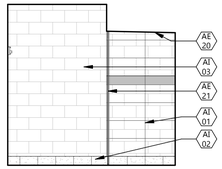
KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

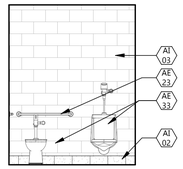
AE 02	MANHOLD (NEENAH R-1792-JL) IN MEZZANINE FLOOR, SEE 6/A601 FOR ADDITIONAL INFORMATION.
AE 20	CEMENT BOARD SOFFIT WITH CERAMIC TILE CEILING, SLOPE TO BACK WALL 1/4" PER FOOT, SEE DETAIL 10/A902 FOR ADDITIONAL INFORMATION.
AE 21	TEMPERED GLASS SHOWER ENCLOSURE DOOR WITH FULL STEAM GASKET.
AE 22	FRAMED MIRROR - TA-02, SEE SPECIFICATION 10 2800 AND A001 FOR ADDITIONAL INFORMATION.
AE 23	GRAB BAR - TA-03, SEE SPECIFICATION 10 2800 AND A001 FOR ADDITIONAL INFORMATION.
AE 25	ROBE HOOK - TA-07, SEE SPECIFICATION 10 2800 AND A001 FOR ADDITIONAL INFORMATION.
AE 33	PLUMBING FIXTURE, SEE P201 AND P801 FOR ADDITIONAL INFORMATION.
AE 36	24"x24" TURNOUT GEAR LOCKER, SEE SPECIFICATION 10 5134 FOR ADDITIONAL INFORMATION.
AE 41	EXTRACTOR PROVIDED BY OWNER, INSTALLED BY GC ON CONCRETE HOUSE KEEPING PAD, SEE 13/S601 AND P201 FOR ADDITIONAL INFORMATION.
AE 47	RESIDENTIAL APPLIANCE.
AI 01	CERAMIC TILE WALL - CTW-1 SEE A901 FOR ADDITIONAL INFORMATION.
AI 02	CERAMIC TILE BASE - CBT-1, SEE A901 FOR ADDITIONAL INFORMAIOTN.
AI 03	PAINTED WALL - PNT-1, SEE A901 FOR ADDITIONAL INFORMATION.
AI 04	RESILIENT BASE - RB-1, SEE A901 FOR ADDITIONAL INFORMATION.
AI 07	PLASTIC LAMINATE COUNTERTOP - PL-1, SEE A901 FOR ADDITIONAL INFORMAITON.



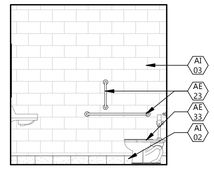
13 A701 SHOWER 124 - EAST
1/4" = 1'-0"



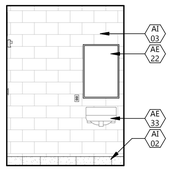
12 A701 SHOWER 124 - NORTH
1/4" = 1'-0"



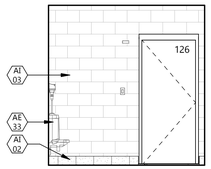
11 A701 TOILET 126 - EAST
1/4" = 1'-0"



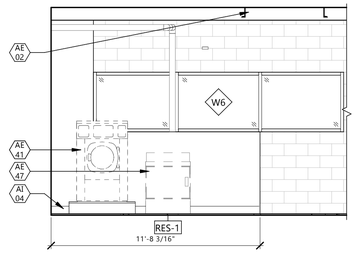
10 A701 TOILET 126 - NORTH
1/4" = 1'-0"



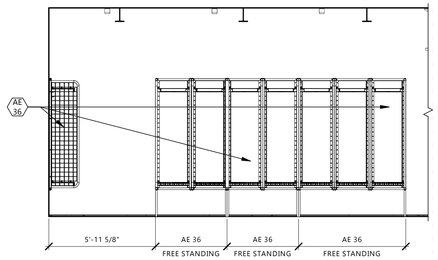
9 A701 TOILET 126 - WEST
1/4" = 1'-0"



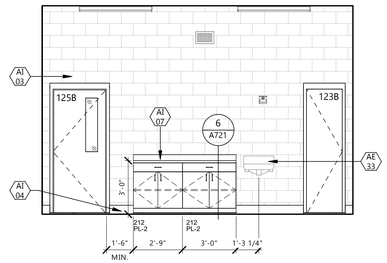
8 A701 TOILET 126 - SOUTH
1/4" = 1'-0"



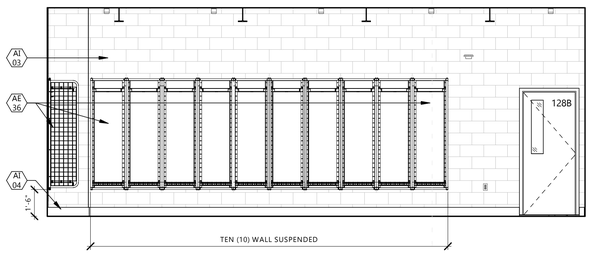
7 A701 TURNOUT LAUNDRY 129 - SOUTH
1/4" = 1'-0"



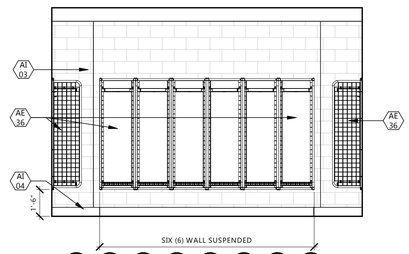
5 A701 TURNOUT 123 CENTER
1/4" = 1'-0"



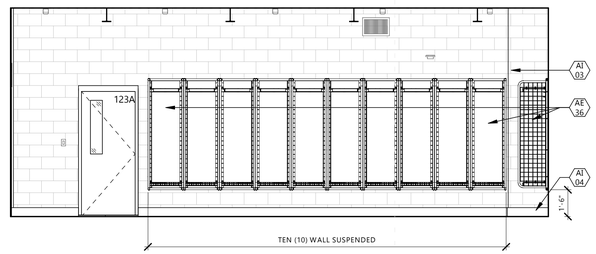
4 A701 TURNOUT 123 - NORTH
1/4" = 1'-0"



3 A701 TURNOUT 123 - WEST
1/4" = 1'-0"



2 A701 TURNOUT 123 - SOUTH
1/4" = 1'-0"



1 A701 TURNOUT LOCKERS 123 - EAST
1/4" = 1'-0"

Revit Version: 2025
Plot Date: 1/16/2026 1:55:10 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: MLM
CHECKED BY: ERD

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
INTERIOR ELEVATIONS

A701

DOOR SCHEDULE

DR #	ROOM NAME	DOOR PANEL(S) OPENING SIZE	MTRL	TYPE	DOOR FRAME MTRL	TYPE	DETAILS - SEE SHEET A801 HEAD	JAMB	SILL	FIRE RATING	HDWE GROUP	NOTES
101	VESTIBULE	3'-0" x 7'-0"	AL	FG	AL	AL3.1	20/A821	21/A821	10/A821			2, 3. 4
102	RISER ROOM	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
103	VESTIBULE	3'-0" x 7'-0"	AL	FG	AL	AL3.2	1/A821	2/A821	-			2
104	HALL	3'-0" x 7'-0"	WD	FG	AL	AL3.2	1/A821	2/A821	-			
105A	DAYROOM	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
105B	WORK ROOM	3'-0" x 7'-0"	WD	NV	HM	HM-00	1/A821	2/A821	-			
106	OFFICE	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-	20 MIN		
107	BATH	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
108	KITCHEN	3'-0" x 7'-0"	AL	FG	AL	AL3.3	11/A821	12/A821 & 13/A821	10/A821			2, 3. 4, 6
110	HALL	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-	20 MIN		
111	SLEEPING 2	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
112	HALL	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-	20 MIN		
113	SLEEPING 3	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
114	HALL	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
115	HALL	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-	20 MIN		
116	SLEEPING 4	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
117	HALL	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-	20 MIN		
118	SLEEPING 5	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
119	HALL	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-			
120	JANITOR	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821	-		1	
122	DAYROOM	3'-0" x 7'-0"	WD	F	HM	HM-00	1/A821	2/A821				
123A	TURNOUT LOCKERS	3'-0" x 7'-0"	HM	NV	HM	HM-00m	3/A821	4/A821	-	1 HR		
123B	TURNOUT LOCKERS	2'-0" x 7'-0"	HM	F	HM	HM-00	3/A821	4/A821	-			
124	CORRD.	3'-0" x 7'-0"	HM	F	HM	HM-00m	3/A821	4/A821	-			
125A	CORRD.	3'-0" x 7'-0"	HM	NV	HM	HM-00m	3/A821	4/A821	-	1 HR		
125B	CORRD.	3'-0" x 7'-0"	HM	NV	HM	HM-00m	3/A821	4/A821	-			
126	CORRD.	3'-0" x 7'-0"	HM	F	HM	HM-00m	3/A821	4/A821	-			
127	CORRD.	3'-0" x 7'-0"	HM	F	HM	HM-00m	3/A821	4/A821	-			
128A	CORRD.	3'-0" x 7'-0"	HM	NV	HM	HM-00m	3/A821	4/A821	-			
128B	TURNOUT LOCKERS	3'-0" x 7'-0"	HM	NV	HM	HM-00m	3/A821	4/A821	-			
128C	APPARATUS BAY	3'-0" x 7'-0"	HM	NV	INSUL-HM	HM-00	7/A821	5/A821	6/A821			4
128D	APPARATUS BAY	14'-0" x 14'-0"		OHS-SG	STL	OHS	15/A821	16/A821	14/A821			7
128E	APPARATUS BAY	14'-0" x 14'-0"		OHS-SG	STL	OHS	15/A821	16/A821	14/A821			7
128F	APPARATUS BAY	14'-0" x 14'-0"		OHS-SG	STL	OHS	15/A821	16/A821	14/A821			7
128G	APPARATUS BAY	3'-0" x 7'-0"	INSUL-HM	NV	INSUL-HM	HM-00	7/A821	5/A821	6/A821			4
128H	APPARATUS BAY	3'-0" x 7'-0"	INSUL-HM	NV	INSUL-HM	HM-00	8/A821	5/A821 & 9/A821	6/A821			
128I	APPARATUS BAY	14'-0" x 14'-0"		OHS-SG	STL	OHS	15/A821	16/A821	14/A821			8
128J	APPARATUS BAY	14'-0" x 14'-0"		OHS-SG	STL	OHS	15/A821	16/A821	14/A821			8
128K	APPARATUS BAY	14'-0" x 14'-0"		OHS-SG	STL	OHS	15/A821	16/A821	14/A821			8
128L	APPARATUS BAY	3'-0" x 7'-0"	INSUL-HM	NV	INSUL-HM	HM-00	8/A821	5/A821 & 9/A821	6/A821			4
132	MECH	3'-0" x 7'-0"	HM	F	HM	HM-00						
133	APPARATUS BAY	6'-0" x 7'-0"	HM	F	HM	HM-00	3/A821	4/A821	-			1
134A	APPARATUS BAY	3'-0" x 7'-0"	HM	F	HM	HM-00	3/A821	4/A821	-			
134B	MAINTENANCE ROOM	8'-0" x 8'-0"	INSUL-HM	F	STL	OHS						8
201	TRAINING/ STOR.	3'-0" x 7'-0"	HM	F	HM	HM-00m	3/A821	4/A821	-			
202	DATA	3'-0" x 7'-0"	HM	F	HM	HM-00	3/A821	4/A821	-			

1

1

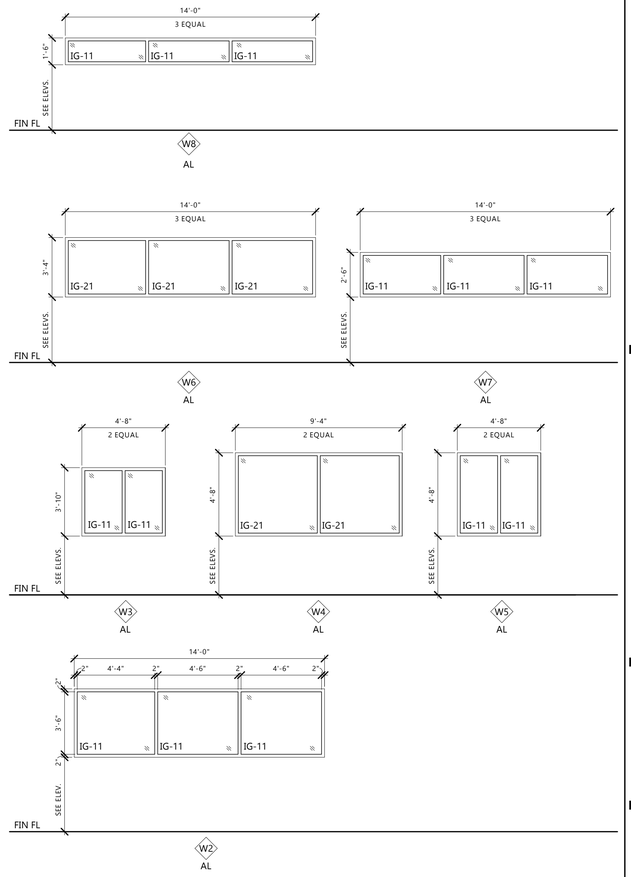
1

1

DOOR NOTES

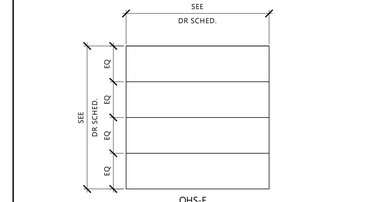
1. DOUBLE DOOR
2. AUTOMATIC DOOR OPERATOR
3. THERMALLY-BROKEN ASSEMBLY WITH INSULATED GLASS
4. INSULATED GLASS AND HARDWARE BY DOOR MANUFACTURE
5. CARD READER
6. SPANDREL GLAZING
7. HIGH PERFORMANCE ELECTRIC OPERATOR.
8. STANDARD PERFORMANCE ELECTRIC OPERATOR.

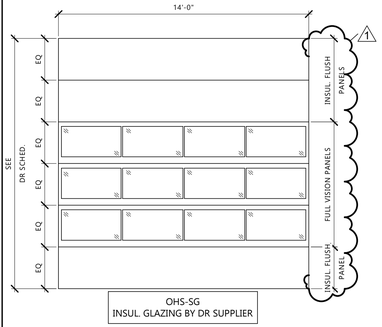
1

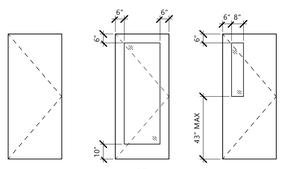


X A801 WINDOW TYPES

1/4" = 1'-0"

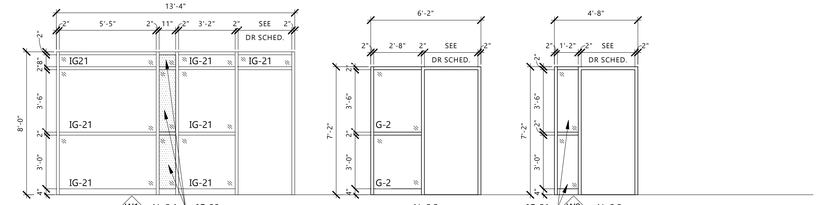


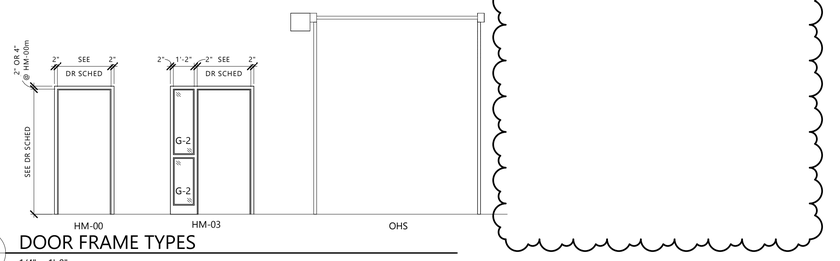




X A801 DOOR PANEL TYPES

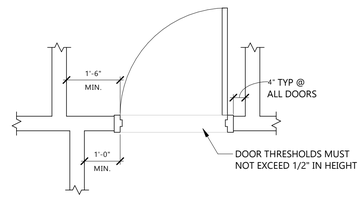
1/4" = 1'-0"





X A801 DOOR FRAME TYPES

1/4" = 1'-0"



1 A801 ADA DOOR CLEARANCES

1/2" = 1'-0"

EAPC

Architecture | Engineering
Interior Design | Industrial

TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: AS, MS
CHECKED BY: BD

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
DOOR SCHEDULE, DOOR AND WINDOW ELEVATIONS

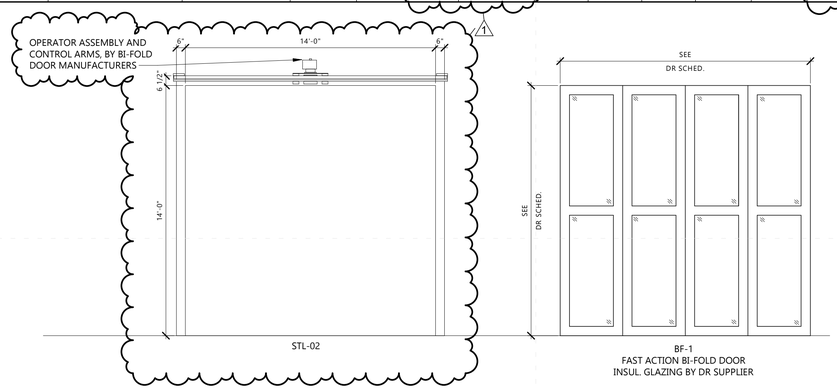
A801

Revit Version: 2025
Plot Date: 11/6/2026 1:55:10 PM

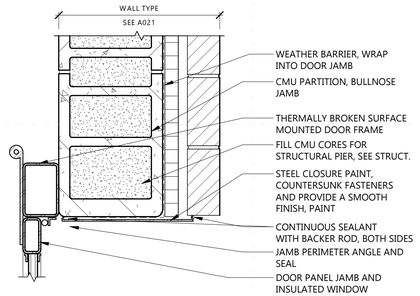
DOOR SCHEDULE

DR #	ROOM NAME	DOOR PANEL(S)			DOOR FRAME		DETAILS - SEE SHEET A801			FIRE RATING	HDWE GROUP	NOTES
		OPENING SIZE	MTRL	TYPE	MTRL	TYPE	HEAD	JAMB	SILL			
128.1	APPARATUS BAY	14'-0" x 14'-0"	STL	BF-1	STL	STL-02	5/A831	4/A831	3/A831	-	N/A	REPLACE DR 128D FOR ALT#1
128.2	APPARATUS BAY	14'-0" x 14'-0"	STL	BF-1	STL	STL-02	5/A831	4/A831	3/A831	-	N/A	REPLACE DR 128E FOR ALT#1
128.3	APPARATUS BAY	14'-0" x 14'-0"	STL	BF-1	STL	STL-02	5/A831	4/A831	3/A831	-	N/A	REPLACE DR 128F FOR ALT#1

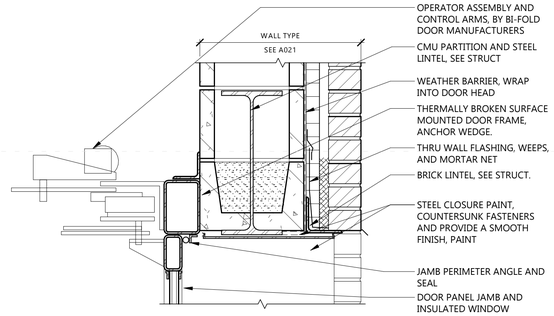
1



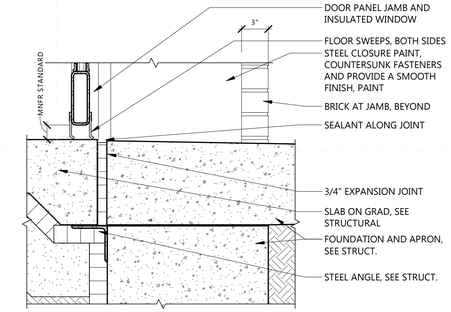
DOOR PANEL TYPES -ALT 1
1/4" = 1'-0"



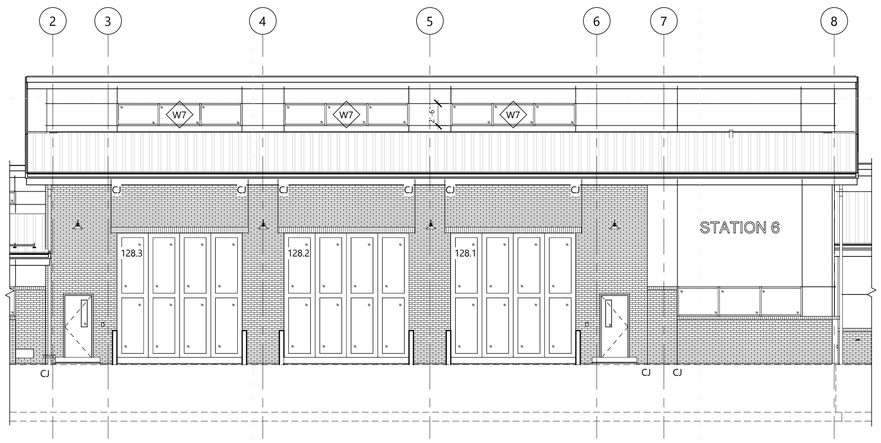
5 A831 — ALTERNATE - EXT. BI-FOLD DOOR - JAMB BRICK
1 1/2" = 1'-0"



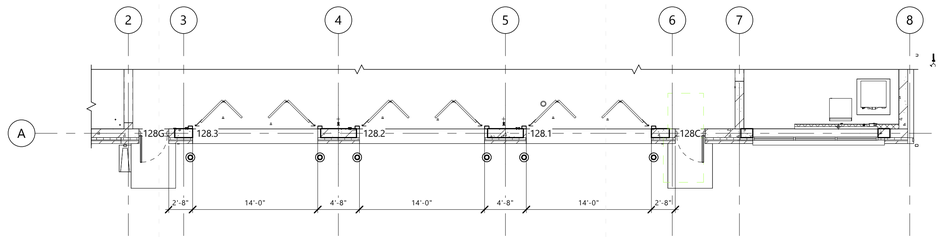
4 A831 — ALTERNATE - EXT. BI-FOLD DOOR - HEAD BRICK
1 1/2" = 1'-0"



3 A831 — ALTERNATE - EXT. BI-FOLD DOOR - SILL
1 1/2" = 1'-0"



2 A831 — SOUTH ELEVATION - ALTERNATE 1
1/8" = 1'-0"



1 A831 — FIRST FLOOR PLAN - Alt
1/8" = 1'-0"

EAPC
Architecture | Engineering
Interior Design | Industrial
TELE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/05/2026

PROJECT NO: 20253510
DRAWN BY: AS
CHECKED BY: BD

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

DRAWING TITLE
ALTERNATE #1 - BI-FOLD DOORS

A831

Revit Version: 2025
Plot Date: 11/6/2026 1:55:12 PM

GENERAL REQUIREMENTS:

1. DESIGN AND CONSTRUCTION OF THIS PROJECT IS PER THE 2024 INTERNATIONAL BUILDING CODE (IBC) INCLUDING REFERENCED STANDARDS AND LOCAL/STATE AMENDMENTS OR BUILDING CODES.
2. THIS PROJECT IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN CHAPTER 17 OF THE IBC AND SHALL BE PROVIDED BY AN INDEPENDENT AGENCY.
3. GENERAL CONTRACTOR, CONTRACTOR, CONSTRUCTION MANAGER/AGENCY OR OTHER SIMILAR ENTITY OR REFERENCE ARE SYNONYMOUS AS IT RELATES TO USE OF AND RESPONSIBILITIES ASSIGNED BY THE CONTRACTOR DOCUMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF STRUCTURAL SYSTEMS WITH OTHER TRADES AND CONTRACT DOCUMENTS, NOTIFY THE EOR OF ANY DISCREPANCIES.
5. CONTRACTOR SHALL PROVIDE VERIFICATION OF QUANTITIES AND DIMENSIONS, MEANS AND METHODS OF CONSTRUCTION, SAFE AND SECURE PERFORMANCE OF THE WORK, AND TO NOT ALTER OR CUT ANY STRUCTURAL MEMBER WITHOUT APPROVAL FROM THE EOR.
6. THE STRUCTURAL DESIGN REPRESENTS THE COMPLETED STATE ANY TEMPORARY BRACING OR SHORING REQUIRED TO MAINTAIN STABILITY DURING CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
7. EXACT LOCATION AND SIZE OF ROOF/FLOOR/WALL OPENINGS, SLEEVES, OR MECHANICAL PENETRATIONS TO BE COORDINATED BY THE CONTRACTOR; SIMILAR FOR HOUSEKEEPING PADS, INSERTS AND EMBEDS, DEPRESSIONS, BOX-OUTS, SLOPES, DOORS AND WINDOWS, NON-BEARING WALLS, STAIRS, FINISHES, WATERPROOFING, RAILINGS, MECHANICAL EQUIPMENT LOCATIONS, LEDGES, INSULATION AND OTHER NON-STRUCTURAL ITEMS NECESSARY TO COMPLETE THE WORK.
8. CONTRACTOR SHALL PROVIDE CONTRACTOR APPROVED AND STAMPED SHOP DRAWINGS AND PRODUCT DATA FOR REVIEW WITH GENERAL CONFORMANCE TO THE CONTRACTOR DOCUMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH TESTING AND INSPECTION AGENCIES DURING CONSTRUCTION OR WHOEVER REMAINS RESPONSIBLE FOR PERFORMING WORK IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
10. CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS ONLY.
11. DEFERRED SUBMITTAL ITEMS REQUIRE SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED AS FOLLOWS:
    A. METAL STAIRS AND CONNECTION TO STRUCTURE
    B. METAL RAILINGS/GUARDRAIL AND CONNECTION TO STRUCTURE
    C. STOREFRONT AND WINDOW SYSTEMS
    D. STRUCTURAL STEEL CONNECTIONS

1

SPECIAL INSPECTION AND TESTING:

1. OWNER SHALL EMPLOY SERVICES OF AN INDEPENDENT TESTING AGENCY TO PERFORM SPECIFIED SPECIAL INSPECTION AND TESTING AS REQUIRED BY THE IBC OR AS SPECIFICALLY NOTED.
2. SPECIAL INSPECTION AND TESTING SHALL BE COMPLETED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. CONTRACTOR SHALL PROVIDE SPECIAL INSPECTOR WITH SUFFICIENT NOTICE AND ACCESS TO THE SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF RETESTING OR ADDITIONAL INSPECTION NEEDED AS A RESULT OF UNINSPECTED WORK, FAILED TESTS, OR REJECTED WORK.
5. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
    A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS.
    B. FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND PROJECT TEAM.
    C. IMMEDIATELY NOTIFY THE CONTRACTOR AND ARCHITECT/EOR OF ANY DISCREPANCIES, DEVIATIONS, OR FAILED TEST FOR CORRECTIVE ACTION.

EARTHWORK AND SUBGRADE PREPARATION:

1. COMPLETE EARTHWORK ACTIVITIES AND SITE PREPARATION IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT PREPARED BY BRAUN INTERTEC (#XXXXXX).
2. NOTIFY EOR IMMEDIATELY IF ANY QUESTIONABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATION; FOUNDATION ELEVATIONS AND SUBGRADE PREPARATION ARE SUBJECT TO CHANGE DEPENDING ON CONDITIONS ENCOUNTERED.
3. PROJECT GEOTECHNICAL ENGINEER SHALL TEST TO VERIFY DESIGN BEARING PRESSURE AND INSPECT SUBGRADE EXCAVATION AND PREPARATION PRIOR TO PROCEEDING WITH PLACEMENT OF FOUNDATIONS AND SLABS.
4. FOUNDATION AND SLABS SHALL BEAR ON UNDISTURBED SOIL OR APPROVED FILL MATERIAL COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR UNLESS OTHERWISE NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
5. PROTECT EXCAVATIONS AND FOOTINGS FROM THE ACTION OF WATER OR FREEZING AND SHALL NOT BE EARTH FORMED WITHOUT APPROVAL BY THE EOR.
6. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO COMPLY WITH OSHA STANDARDS.
7. MATERIAL FOR BACKFILL SHALL BE CLEAN, FREE OF WOOD SCRAPS OR OTHER DELETERIOUS SUBSTANCES AND PLACED IN 12" COMPACTED LIFTS, UNLESS NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
8. BACKFILL AGAINST FOUNDATION WALL CAREFULLY TO AVOID DAMAGE TO THE WALL AND OTHER CONSTRUCTION; NO UNBALANCED BACKFILL SHALL BE PLACED UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR PERMANENT CONSTRUCTION, OR DESIGNED TO RETAIN EARTH.
9. EXISTING ON-SITE SUITABLE SOILS ARE ACCEPTABLE BACKFILL MATERIAL PROVIDED THEY CAN BE CONDITIONED AND PLACED TO THE SPECIFIED WATER CONTENT, MEET COMPACTION REQUIREMENTS, AND ARE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
10. GRANULAR FILL SHALL HAVE 100% PASSING THE 1", LESS THAN 50% PASSING THE #40, AND LESS THAN 12% PASSING THE #200 SIEVES UNLESS NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
11. PROVIDE A MINIMUM 6" THICK DRAINAGE COURSE BELOW ALL INTERIOR FLOOR SLABS ON GRADE UNLESS NOTED OTHERWISE. DRAINAGE COURSE SHALL HAVE 100% PASSING THE 1", LESS THAN 50% PASSING #40, AND LESS THAN 5% PASSING THE #200 SIEVES, UNLESS NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. PROVIDE A 10 MIL VAPOR BARRIER BETWEEN THE DRAINAGE COURSE AND UNDERSIDE OF CONCRETE SLAB.

1

CAST-IN-PLACE CONCRETE:

1. CONTRACTOR WORK SHALL CONFORM WITH REQUIREMENTS OF ACI 301 AND ACI 318 OR ACI 350, ALONG WITH ACI 305 AND ACI 306 WHEN WEATHER CONDITIONS DICTATE HOT OR COLD WEATHER PROVISIONS.
2. CONCRETE SHALL BE A REDI-MIXED PRODUCT IN CONFORMANCE WITH APPROVED MIX DESIGN SUBMITTALS FOR EACH COMBINATION OF STRENGTH OR APPLICATION AS PREPARED BY THE SUPPLIER OR AND INDEPENDENT TESTING AGENCY.
3. DO NOT USE ADMIXTURES OR CURING ACCELERATORS CONTAINING CALCIUM CHLORIDE.
4. TOLERANCES AND FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED TO CONFORM WITH REQUIREMENTS OF ACI 114 AND ACI 347.
5. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" WHERE NOT SPECIFICALLY SHOWN OR NOTED ON STRUCTURAL OR ARCHITECTURAL DRAWINGS.
6. SEE CONCRETE REINFORCING NOTES SECTION, STANDARD DETAILS AND TABLES FOR ADDITIONAL REINFORCING AND LAYOUT REQUIREMENTS.
7. ALL FOOTINGS, FOUNDATIONS, PIERS, COLUMNS, AND FRAMING MEMBERS SHALL BE CENTERED UNLESS NOTED OTHERWISE.
8. FOOTING STEPS SHALL BE GENERALLY LOCATED WHERE INDICATED ON THE FOUNDATION PLANS.
9. PROVIDE DOWEL BARS BETWEEN MEMBERS WITH STANDARD HOOKS TO SUPPORT MEMBER AND LAP SPLICED WITH PRIMARY REINFORCING; DOWELS SHALL BE SAME SIZE AND SPACED TO MATCH PRIMARY REINFORCING UNLESS NOTED OTHERWISE.
10. INSERTS, SLEEVES, OPENINGS, AND OTHER EMBEDDED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE LOCATED AND VERIFIED BY THE CONTRACTOR; THOSE NOT SHOWN SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE EOR.
11. CONTRACTOR TO LAY OUT AND SUBMIT LOCATION OF CONSTRUCTION JOINTS AND CONCRETE CONSTRUCTION FOR REVIEW AND APPROVAL. SEE STANDARD DETAILS FOR SLAB ON GRADE CONSTRUCTION, CUT JOINTS WITHIN 24 HOURS OF CONCRETE PLACEMENT, SPACED NOT MORE THAN 36 TIMES THE SLAB THICKNESS, AND AN ASPECT RATIO NOT EXCEEDING 1.5.
12. UNLESS SPECIFICALLY DETAILED OR SHOWN ON THE STRUCTURAL DRAWINGS, PENETRATIONS OR OPENINGS IN SLABS AND WALL SHALL:
    A. NOT EXCEED 12 INCHES IN ANY DIMENSION.
    B. NOT BE LOCATED WITHIN 6 INCHES FROM AN EDGE.
    C. NOT BE LOCATED WITHIN A BEAM OR COLUMN.
    D. NOT BE CLOSER THAN 10 TIMES THE SLAB THICKNESS FROM A CONCENTRATED LOAD EXCEEDING 2,000 LBS.
    E. WHEN PLACED IN GROUPS, SHALL BE PLACED WITH NO LESS THAN ONE PENETRATION OF OPENING DIAMETER CLEAR BETWEEN THEM.

1

CONCRETE REINFORCEMENT:

1. CONCRETE REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM WITH REQUIREMENTS OF ACI 315 AND CRSI MANUAL.
2. SEE STANDARD DETAILS AND TABLES FOR ADDITIONAL INFORMATION RELATED TO STEEL REINFORCING COVER, LAPS, AND MISCELLANEOUS DETAILING.
3. REINFORCING STEEL SHALL BE TIED, ACCURATELY PLACED, AND SUPPORTED BY STANDARD ACCESSORIES. ACCESSORY LEGS EXPOSED TO VIEW SHALL BE STAINLESS STEEL.
4. REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN PLACE PRIOR TO CONCRETE PLACEMENT; PLACEMENT OR PUSHING ("WET STICKING") INTO CONCRETE IS NOT ALLOWED.
5. REINFORCEMENT LAP SPLICES SHALL BE CLASS B PLUS 6" AT NON-CONTACT SLICES, UNLESS NOTED OTHERWISE, AND SPLICED AT LOCATIONS SHOWN OR NOTED WITHIN THE STRUCTURAL DOCUMENTS; EXCEPTION REINFORCEMENT NOTED AS "CONTINUOUS" MAY BE SPLICED AT LOCATIONS DETERMINED BY THE CONTRACTOR.
6. PROVIDE (2) #5'S, ONE EACH FACE, AROUND ALL OPENINGS GREATER THAN 12"x12", AND EXTENDING 2'-0" BEYOND OPENING IN BOTH DIRECTIONS; AT CORNERS, SIMILARLY PROVIDE (2) #5x4'-0" BARS DIAGONALLY.

CONCRETE MASONRY:

1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530 AND THE NATIONAL CONCRETE MASONRY ASSOCIATION AND BRICK INSTITUTE OF AMERICA STANDARDS.
2. CONCRETE BLOCK SHALL BE HOLLOW, NORMAL WEIGHT UNITS CONFORMING TO ASTM C90 WITH A MINIMUM AVERAGE NET AREA COMPRESSIVE STRENGTH OF 2,150 PSI.
3. MORTAR SHALL COMPLY WITH ASTM C270, TYPE M OR S; MINIMUM COMPRESSING STRENGTH SHALL BE 1,800 PSI FOR TYPE S AND 2,500 PSI FOR TYPE M.
4. GROUT SHALL COMPLY WITH ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
5. GROUT SOLID ALL BOND BEAMS, REINFORCED CORES, BELOW GRADE MASONRY, AND CORE WITH EMBEDDED ITEMS OR FASTENERS.
6. PROVIDE GROUT IN VERTICAL LIFTS NOT EXCEEDING 5'-4" OR PROVIDE CLEANOUTS PER ACI 530.1.
7. LAP CONTINUOUS REINFORCING STEEL 48 BAR DIAMETERS; INCREASE TO 62 BAR DIAMETERS WHEN MINIMUM COVER IS LESS THAN 5 BAR DIAMETERS OR WHEN ADJACENT SPLICES ARE SEPARATED BY LESS THEN 3 INCHES.
8. PROVIDE DOWEL BARS BETWEEN MEMBERS WITH STANDARD HOOKS TO SUPPORT MEMBER AND LAP SPLICED WITH PRIMARY REINFORCING; DOWELS SHALL BE SIZED AND SPACED TO MATCH PRIMARY REINFORCING UNLESS NOTED OTHERWISE.
9. REINFORCE BOND BEAMS WITH (2) #4 BARS CONTINUOUS WITH 2'-0" BENDS AT CORNERS OR PROVIDE 4'-0" CORNER BARS, UNLESS NOTED OTHERWISE.
10. PROVIDE GALVANIZED STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16 INCHES ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING 2'-0" MINIMUM BEYOND JAMBS.
11. PROVIDE VERTICAL CONTROL JOINTS PER ARCHITECTURAL PLANS AND ELEVATIONS OR AS REFERENCED BY THE NCMA; DO NOT LOCATE WITHIN OPENINGS OR JAMBS. BOND BEAM REINFORCING TO BE CONTINUOUS THRU JOINTS HOWEVER HORIZONTAL JOINT REINFORCEMENT SHALL BE DISCONTINUOUS. INSTALL BACKING AND CAULK PER ARCHITECTURAL DETAILING.
12. REINFORCE EACH SIDE OF ALL OPENINGS, CORNERS, AND EACH SIDE OF CONTROL JOINTS (2) TYPICAL VERTICAL BARS FULL HEIGHT.
13. MASONRY WALL SHALL BE BRACED BY INTERSECTING WALLS OR BY BRACING TO THE STRUCTURE ABOVE.
14. PROVIDE VERTICAL REINFORCEMENT WITH (1) #5 AT 48" O/C AT BEARING OR EXTERIOR WALLS AND AT 8'-0" O/C INTERIOR NON-BEARING WALLS, UNLESS NOTED OTHERWISE.
15. PROVIDE 16" DEEP MINIMUM SOLID GROUTING BELOW LINTELS AND BEARING SEATS. STEEL BEAM BEARING LENGTHS SHALL BE AT LEAST 6 INCHES WHEN PERPENDICULAR AND 8 INCHES WHEN PARALLEL TO THE WALL.
16. OPENINGS IN NON-BEARING MASONRY WALLS SHALL HAVE LINTELS AS FOLLOWS: <12" NON REQUIRED, 1'-0" TO 3'-4" PROVIDE 8" DEEP MASONRY LINTEL AND (2) #5, 3'-4" TO 6'-4" PROVIDE W8x10 WITH 1/4" CONT BOTTOM PLATE, AND >6'-4" CONSULT EOR.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE WITH WELDING BY CERTIFIED WELDERS PER AWS D1.1.
2. PROVIDE STIFFENER PLATES ON BOTH SIDES OF BEAM WEBS AT POINTS OF CONCENTRATED LOADS OR BEARING; UNLESS NOTED OTHERWISE, MINIMUM PLATE THICKNESS SHALL BE 3/8" OR COLUMN FLANGE THICKNESS OR BEAM WEB THICKNESS WHICHEVER IS GREATER.
3. COLUMN CAP PLATES SHALL BE 1/2 INCH THICK, UNLESS NOTED OTHERWISE.
4. STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED OR MODIFIED SHALL BE DESIGNED BY THE FABRICATOR FOR THE SERVICE LOADS SHOWN (##k), UNLESS NOTED OTHERWISE. WHERE NO LOAD IS GIVEN, DESIGN FOR 1/2 OF THE TOTAL ALLOWABLE UNIFORM LOAD PER AISC BEAM TABLES BASED ON SIZE AND SPAN OF BEAM. FABRICATOR TO SELECT AISC SIMPLE SHEAR CONNECTION TO MEET REQUIREMENTS AND ERECTOR PREFERENCE.
5. USE 3/4" DIA (MIN) A325-N HIGH STRENGTH BOLTS AT ALL CONNECTIONS UNLESS HIGHER STRENGTH IS REQUIRED BY DESIGN, COORDINATE WITH EOR.
6. STEEL SHALL BE SHOP PRIMED WITH FABRICATOR'S STANDARD RUST-INHIBITING PRIMER COMPATIBLE WITH TOP COATING, COORDINATE WITH ARCHITECTURAL, EXCEPT AT SURFACES ENCASED IN CONCRETE, TO BE WELDED, OR TO RECEIVE FIREPROOFING.
7. EXTERIOR STEEL OR LINTELS SHALL BE HOT DIPPED GALVANIZED, UNLESS NOTED OTHERWISE.
8. ERECT BEAMS AND COLUMNS TRUE AND PLUMB WITHIN AISC TOLERANCE AND PROVIDE TEMPORARY BRACING AS REQUIRED.
9. BEAM BEARING PLATES AND COLUMN BASE PLATES SHALL BE DRY PACKED WITH GROUT.
10. CONTINUOUS MEMBERS SHALL BE FULL PENETRATION FIELD WELDED AT ALL BUTT SPLICES OR OTHERWISE DETAILED TO PROVIDE CONTINUITY.
11. DO NOT FIELD CUT, WELD OR MODIFY STRUCTURAL STEEL MEMBERS WITHOUT APPROVAL OF THE EOR.

1

METAL DECKING:

1. METAL DECK SHALL BE MANUFACTURED AND ERECTED PER SDI SPECIFICATIONS.
2. METAL DECK SHALL BE DESIGNED TO COVER AT LEAST TWO SPANS, SINGLE SPAN CONDITIONS ARE NOT ALLOWED UNLESS APPROVED BY THE EOR.
3. RIDGE AND VALLEY PLATES AND FLAT PLATES AT CHANGES IN DECK DIRECTION SHALL BE PROVIDED BY SUPPLIER.
4. CONTRACTOR SHALL VERIFY, LOCATE AND COORDINATE METAL DECK OPENINGS WITH SUPPLIER AND TRADES INVOLVED. OPENINGS LARGER THAN 12 INCHES REQUIRE SUPPLEMENTAL SUPPORT, SEE DETAILS AND WELDED ANGLE FRAME REQUIREMENTS.
5. ALTERNATIVE DECK FASTENING MAY BE SUBMITTED FOR REVIEW & APPROVAL W/ DOCUMENTATION SHOWING THAT EQUIVALENT DIAPHRAGM CAPACITY IS ACHIEVED.
6. METAL DECKING SHALL BE FASTENED TO SUPPORTING ELEMENTS WITH THE FOLLOWING PATTERNS & SIDELAPS UNLESS OTHERWISE NOTED:
    A. ROOF DECK: HILTI X-HSN24 FASTENERS IN A 36/5 PATTERN W/ HILTI S-SLC 02 M HWH SIDE LAP SCREWS @ 12" O/C AT SIDE LAPS.
    B. FLOOR DECK (MEZZANINE): HILTI X-ENP19 PAF IN A 36/5 PATTERN (OR EQUIVALENT) W/ BUTTON PUNCH CONNECTIONS @ 24" O/C.

1

WOOD FRAMING:

1. WOOD FRAMING AND CONSTRUCTION SHALL COMPLY WITH CONSTRUCTION DOCUMENTS APA, AND/OR TPI STANDARD. GLULAM FABRICATOR SHALL BE AITC OR APA MEMBER AND FOLLOW APPEARANCE AND GRADE SPECIFICATIONS NOTED.
2. PROVIDE WOOD FRAMING FASTENING PER THE IBC FASTENING SCHEDULE, COMMON NAILS UNLESS NOTED OTHERWISE OR RECOMMENDED BY ENGINEERED WOOD SUPPLIER. MULTI PLY MEMBERS SHALL BE FASTENED WITH (2) ROWS OF 16d NAILS AT 12" O/C; FOR MEMBERS DEEPER THAN 12", PROVIDE (3) ROWS.
3. FASTENERS TO BE STAGGERED TO PREVENT SPLITTING OF WOOD FRAMING. DRILLED BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. CUT WASHERS SHALL BE USED WHERE BOLT HEADS, NUTS, AND LAG SCREW HEADS BEAR ON WOOD. DO NOT NOTCH OR DRILL STRUCTURAL WOOD FRAMING EXCEPT AS ALLOWED BY THE IBC.
4. TOP PLATES SHALL BE STAGGERED 48 INCHES MINIMUM AND FASTENED PLIES WITH (31) 16d COMMON NAILS EACH SIDE OF SPLICE
5. SILL PLATES SHALL BE ANCHORED TO FOUNDATIONS WITH 5/8" DIAMETER BY 7" EMBEDMENT GALVANIZED ANCHOR RODS OR 5/8" DIAMETER x 10" EMBEDMENT SIMPSON TITEN HD SCREW ANCHORS AT 48" O/C, UNLESS NOTED OTHERWISE. PROVIDE A MINIMUM 3"x3"x 0.229" PLATE WASHER ON ALL SILL PLATE ANCHOR BOLTS. THERE SHALL BE AT LEAST (2) ANCHOR BOLTS PER PIECE SPACED NOT MORE THAN 6 FEET APART , WITH (1) BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM EACH END OF EACH PIECE. (REVIEW EMBED & WASHER SIZES)
6. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED AND PROTECTED, OR NATURALLY RESISTANT TO DECAY
7. BRACE INTERIOR NON-BEARING WALLS TO BLOCKING OR FRAMING ABOVE PROVIDING CLIPS ALLOWING FOR VERTICAL MOVEMENT OF THE STRUCTURE.
8. PROVIDE 2x FULL HEIGHT JAMB AND KING STUDS EACH SIDE OF WALL OPENINGS EQUAL TO THE NUMBER OF HEADER PLIES UNLESS OTHERWISE NOTED.
9. PROVIDE 2x FULL HEIGHT JAMB STUDS DIRECTLY BELOW GIRDER TRUSS BEARING IN ADDITION TO SOLID BLOCKING AT JOIST/TRUSS CAVITIES. NUMBER OF STUDS SHALL EQUAL THE NUMBER OF GIRDER PLIES, UNLESS OTHERWISE NOTED
10. PROVIDE SOLID BLOCKING EQUAL IN SIZE/NUMBER/WIDTH OF JAMBS AT JOIST/TRUSS CAVITIES BELOW BEAM/HEADER/GIRDER BEARING LOCATIONS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF PANELIZED WALL CONSTRICTION. EOR TO REVIEW SUBMITTED FRAMING FOR GENERAL CONFORMANCE AND DESIGN INTENT. NOT FOR ACTUAL ENGINEERING OF PANEL OR COMPONENTS.
12. SHEATHING AND/OR BRACING SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE FLOOR OR ROOF ABOVE.
13. SEE SHEAR WALL SCHEDULE AND DETAILS FOR ADDITIONAL ANCHOR ROD, HOLDOWN, AND OTHER ANCHORAGE/FASTENING REQUIREMENTS.
14. SHEATHING SHEET SIZES SHALL BE 4'-0"x8'-0" (MIN) EXCEPT AT BOUNDARIES. INSTALL SHEETS WITH THE LONG DIMENSION OR STRENGTH AXIS OF THE PANEL PERPENDICULAR TO SUPPORTS AND CONTINUOUS OVER TWO OR MORE SPANS. STAGGER END JOINTS OF ADJACENT SHEETS.
15. FASTEN SHEATHING TO SUPPORTING MEMBERS AS FOLLOWS:
    - EXTERIOR WALL SHEATHING (UNBLOCKED): 8d COMMON NAILS AT 6" O/C AT PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS.
    - SHEARWALL SHEATHING: SEE SHEARWALL SCHEDULE

1

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: JEB/WLM
CHECKED BY: TJS/MMB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP



DRAWING TITLE
STRUCTURAL GENERAL NOTES

S001

Revit Version: 2025
Revit Date: 11/06/2026 12:07:22 PM

DESIGN CRITERIA AND LOADS
(IN ADDITION TO THOSE INDICATED ON PLANS & DETAILS)

OCCUPANCY	BUILDING RISK CATEGORY		IV
DEAD LOADS	(SUPERIMPOSED)		
	ROOF		20 PSF
	MEZZANINE		15 PSF
LIVE LOADS			
	STAIRWAYS		100 PSF
	MECHANICAL ROOMS		150 PSF
	STORAGE AREAS		125 PSF
	ROOF (REDUCIBLE)		20 PSF
SNOW LOAD			
	GROUND SNOW LOAD	Pg	106 PSF
	WINTER WIND PARAMETER	W2	0.45
	SNOW EXPOSURE FACTOR	Ce	0.9
	THERMAL FACTOR (HEATED)	Ct	1.10
	FLAT ROOF SNOW LOAD (HEATED)	Pf	82 PSF
	SNOW DRIFT LOAD (ADDITIVE)		SEE PLAN
	SLOPE FACTOR	Cs	1.00
	SLOPED ROOF SNOW LOAD	Ps	82 PSF
	UNBALANCED SNOW (ULTIMATE)		PER ASCE 7
WIND DESIGN	(STRENGTH LEVEL UON)		
MAIN WIND FORCE RESISTING SYSTEM	BASIC WIND SPEED	V	125 MPH
	EXPOSURE CATEGORY		C
	BUILDING TYPE		ENCLOSED
	INTERNAL PRESSURE COEFFICIENT	GCpi	+/-0.18
	NET UPLIFT		20 PSF

COMPONENTS AND CLADDING DESIGN PRESSURE (APPARATUS)

	Ae≤ 10 SQFT	Ae≥ 500 SQFT
ZONE 1	25.3/-71.0 PSF	16.0/-22.1 PSF
ZONE 2	25.3/-94.0 PSF	16.0/-38.3 PSF
ZONE 3	25.3/-123.0 PSF	16.0/-64.3 PSF
ZONE 4	38.3/-42.0 PSF	28.6/-31.8 PSF
ZONE 5	38.3/-51.3 PSF	28.6/-31.8 PSF
ZONE 1 OHS	16.0/-103.2 PSF	16.0/-44.8 PSF
ZONE 2 OHS	16.0/-126.0 PSF	16.0/-61.0 PSF
ZONE 3 OHS	16.0/-155.1 PSF	16.0/-87.0 PSF
a = 6'-9"		
Ae = EFFECTIVE AREA FOR C		

COMPONENTS AND CLADDING DESIGN PRESSURE (LIVING QUARTERS)

	Ae≤ 10 SQFT	Ae≥ 500 SQFT
ZONE 1	23.4/-65.2 PSF	16.0/-20.4 PSF
ZONE 2	23.4/-86.2 PSF	16.0/-35.3 PSF
ZONE 3	23.4/-113.1 PSF	16.0/-59.3 PSF
ZONE 4	35.3/-38.3 PSF	62.4/-30.0 PSF
ZONE 5	35.3/-47.3 PSF	62.4/-30.0 PSF
ZONE 1 OHS	16.0/-95.2 PSF	16.0/-41.3 PSF
ZONE 2 OHS	16.0/-116.1 PSF	16.0/-56.3 PSF
ZONE 3 OHS	16.0/-143.0 PSF	16.0/-80.2 PSF
a = 4'-10"		
Ae = EFFECTIVE AREA FOR A		

SEISMIC DESIGN			
	SEISMIC DESIGN CATEGORY		A
	IMPORTANCE FACTOR	Ie	1.5
	SITE CLASS		D
	SPECTRAL RESPONSE ACCELERATION	Ss	0.058g
		S1	0.018g
	SPECTRAL DESIGN RESPONSE COEFFICIENT	Sds	0.052g
		Sd1	0.026g
GEOTECHNICAL			
	ALLOWABLE SOIL BEARING PRESSURE	fbrg	1500 PSF (ASSUMED)

MATERIAL STRENGTHS

CONCRETE		
	28 DAY COMPRESSIVE STRENGTH	f'c
	FOOTINGS	4,000 PSI
	FOUNDATION WALLS/ WALLS/ SLABS	4,000 PSI
	SLAB ON METAL DECK	4,000 PSI
	GROUT (NON-SHRINK / NON-METALLIC)	5,000 PSI (MIN)
	PROVIDE 6% (+/- 1.5%) ENTRAINED AIR IF EXTERIOR CONCRETE	
REINFORCING STEEL		
	REINFORCING BARS	ASTM A615 GR 60, DEFORMED
MASONRY		
	COMPRESSIVE STRENGTH f'm	1,500 PSI
STRUCTURAL STEEL		
STRUCTURAL MEMBERS	WIDE FLANGE (W) & TEE (WT)	ASTM A992, Fy=50 KSI
	CHANNEL (C&MC) & ANGLE (L)	ASTM A36, Fy=36 KSI
	STRUCTURAL BARS & PLATES	ASTM A36, Fy=36 KSI
FASTENERS	HIGH STRENGTH BOLTS	ASTM A325-N
	ANCHOR RODS	ASTM F-1554, GRADE 36
	THREADED RODS	ASTM A36
	COMMON BOLTS	ASTM A307
	SHEAR STUD CONNECTORS	ASTM A108, TYPE B (Fu=65 KSI)
WELDS	WELD ELECTRODES	E70XX
COLD FORMED METAL FRAMING		
	SHEET STEEL	ASTM A1003, STRUCTURAL GRADE, TYPE H, METALLIC COATED G60 MIN
	SHEET STEEL FOR CLIPS	ASTM A653, STRUCTURAL STEEL ZINC COATED G60 MIN, GRADE 50
WOOD		
SAWN LUMBER	BEAMS AND STRINGERS	DFL No. 2
	STUD WALLS (BEARING)	SPF STUD GRADE
	TOP PLATE (BEARING WALLS)	DFL No. 2
	BOTTOM PLATE (BEARING WALLS)	SOUTHERN PINE No. 2, TREATED
	MISCELLANEOUS FRAMING AND BLOCKING	SPF STUD GRADE
LAMINATED VENEER LUMBER	BEAMS	MICROLLAM 2.0E-2600Fb
SHEATHING	WALL (SEE SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS)	7/16" APA RATED, EXPOSURE 1, 24/16 SPAN RATING
SILL PLATE	ANCHORS	1/2"Ø SIMPSON TITEN HD SCREW ANCHORS (GALV)

POST INSTALLED ANCHORS**		
ADHESIVE ANCHORS	HILTI HIT-HY200	ANCHORAGE TO CONCRETE
EXPANSION ANCHORS	HILTI KWIK BOLT 3	ANCHORAGE TO CONCRETE
SCREW ANCHORS	HILTI KWIK HUS-EZ	ANCHORAGE TO CONCRETE
CONCRETE ANCHORS	HILTI KWIK CON II	ANCHORAGE TO CONCRETE & MASONRY
ADHESIVE ANCHORS	HILTI HIT-HY100	ANCHORAGE TO MASONRY
POWDER ACTUATED FASTENERS	HILTI X-U	ANCHORAGE TO CONCRETE, MASONRY, & STEEL
STEEL DECK FASTENERS	HILTI-HS OR HILTI X-ENP	STEEL DECK FASTENING
	**OR APPROVED EQUALS	

CAST IN PLACE CONCRETE (NON-PRESTRESSED) COVER

ACI 318 - STRUCTURAL CONCRETE

UNLESS NOTED OTHERWISE ON DRAWINGS		COVER (INCHES)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3
EXPOSED TO EARTH OR WEATHER		
	#6 THROUGH #18 BARS	2
	#5 AND SMALLER	1 1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		
SLABS, WALLS, JOISTS	#14 & #18 BARS	1 1/2
	#11 BARS AND SMALLER	3/4
BEAMS, COLUMNS	PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2
	SLAB ON GRADE / SLAB ON METAL DECK	CENTERED

CONCRETE REINFORCING STEEL LAP SPLICE & DEVELOPMENT LENGTH SCHEDULE

	MINIMUM LAP SPLICE LENGTHS (Ls)		MINIMUM DEVELOPMENT LENGTH (Ld)	
BAR SIZE	TOP BARS[1]	OTHER BARS	TOP BARS[1]	OTHER BARS
#3	2'-0"	1'-7"	1'-7"	1'-3"
#4	2'-8"	2'-1"	2'-1"	1'-7"
#5	3'-4"	2'-7"	2'-7"	2'-0"
#6	4'-0"	3'-1"	3'-1"	2'-5"
#7	5'-10"	4'-6"	4'-6"	3'-6"
#8	6'-8"	5'-2"	5'-2"	3'-11"
#9	7'-7"	5'-10"	5'-10"	4'-6"

1. HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: JEB/WLM
CHECKED BY: TJS/MMB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

REGISTERED PROFESSIONAL ENGINEER
SAMUEL J. WILKE
PE-6697
DATE 10/29/2026
NORTH DAKOTA

DRAWING TITLE
STRUCTURAL LOADS & MATERIAL NOTE TABLES

S002

Revit Version: 2025
Plot Date: 11/6/2026 12:07:23 PM

REQUIRED SPECIAL INSPECTION OF CONCRETE CONSTRUCTION [1]

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	--	X
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	--	X
B. INSPECT WELDING OF REINFORCEMENT FOR SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS	X	--
C. INSPECT WELDED REINFORCEMENT SPLICES	X	--
D. INSPECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS	X	--
E. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	--	X
F. INSPECT ALL OTHER WELDS	--	X
3. INSPECT ANCHORS CAST INTO CONCRETE	--	X
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	--	X
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	--
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	--	X
5. VERIFY USE OF REQUIRED DESIGN MIX	--	X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	--
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	--
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	--	X
9. INSPECTION OF PRESTRESSED CONCRETE FOR:		
A. APPLICATION OF PRESTRESSING FORCED	X	--
B. GROUTING OF BONDED PRESTRESSING TENDONS	X	--
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	--	X
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:		
A. INSTALLATION OF THE EMBEDDED PARTS	X	--
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X	--
C. COMPLETION OF CONNECTIONS IN FIELD	X	--
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	--	X
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	--	X
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS PRIOR TO CONCRETE POUR	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION OF CONCRETE MASONRY UNIT CONSTRUCTION [1]

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	--	X
2. PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND f'aac EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE	--	X
3. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	X	--
4. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:	--	--
A. PROPORTIONS OF SITE PREPARED MORTAR	--	X
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	--	X
C. GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS AND PRESTRESSING TENDONS AND ANCHORAGE	--	X
D. PRESTRESSING TECHNIQUE	--	--
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X (a)	X (b)
F. SAMPLE PANEL CONSTRUCTION	--	X
5. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:	--	--
A. GROUT SPACE	--	X
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	--	X
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	--	X
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	--	X
6. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:	--	--
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	--	X
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	--	X
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS	--	X
D. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHERS CONSTRUCTION	--	X
E. WELDING OF REINFORCEMENT	X	--
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (44°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	--	X
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	--
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	--
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR COMPLIANCE	X (a)	X (b)
7. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND OR PRISMS	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		
NOTE a: REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY		
NOTE b: REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY		

REQUIRED SPECIAL INSPECTION OF SOIL [1]

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	--	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	--	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	--
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC		

1

REQUIRED SPECIAL INSPECTION OF OPEN-WEB STEEL JOIST/JOIST GIRDERS [1]

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS		
A. END CONNECTIONS WELDED OR BOLTED	--	X
B. BRIDGING - HORIZONTAL OR DIAGONAL	--	--
1. STANDARD BRIDGING	--	X
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC		

REQUIRED SPECIAL INSPECTION OF STEEL CONSTRUCTION [1]

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGHT-STRENGTH BOLTS, NUTS, AND WASHERS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	--	X
2. INSPECTION OF HIGH-STRENGTH BOLTING:		
A. SNUG-TIGHT JOINTS	--	X
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	--	N/A
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	N/A	--
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	--	X
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X
C. MANUFACTURER'S CERTIFIED TEST REPORTS	--	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	--	X
5. INSPECTION OF WELDING		
A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK		
1. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	X	--
2. MULTI-PASS FILLET WELDS	X	--
3. SINGLE-PASS FILLET WELDS > 5/16"	X	--
4. PLUG AND SLOT WELDS	X	--
5. SINGLE-PASS FILLET WELDS OF 5/16" AND LESS	--	X
6. FLOOR AND ROOF DECK WELDS	--	X
B. REINFORCING STEEL		
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	--	X
2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES	X	--
3. SHEAR REINFORCEMENT	X	--
4. OTHER REINFORCING STEEL	--	X
4. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE		
A. DETAILS SUCH AS BRACING AND STIFFENING	--	N/A
B. MEMBER LOCATIONS	--	N/A
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	--	N/A
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND AISC STANDARDS		

INSPECTION TASKS PRIOR TO WELDING [1]

INSPECTION TASKS PRIOR TO WELDING	QUALITY ASSURANCE	QUALITY CONTROL
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	O	P
2. WSP AVAILABLE	P	P
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
4. MATERIAL IDENTIFICATIONS (TYPE/GRADE)	O	O
5. MATERIAL IDENTIFICATIONS SYSTEM (a)	O	O
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACE) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
7. FIT-UP OF CJP GROOVE WELDS OF HSS, T-, Y-, AND K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACE) • TACKING (TACK WELD QUALITY AND LOCATION)	O	P
8. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
9. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACE) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O
10. CHECK WELDING EQUIPMENT	--	O
NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE		
NOTE a: THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE		
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

INSPECTION TASKS DURING WELDING [1]

INSPECTION TASKS DURING TO WELDING	QUALITY ASSURANCE	QUALITY CONTROL
1. CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
2. NO WELDING OVER CRACKED TACK WELDS	O	O
3. ENVIRONMENTAL CONDITIONS • WIND SPEED WITH LIMITS • PRECIPITATION AND TEMPERATURE	O	O
4. WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITIONS (F, V, H, OH)	O	O
5. WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P
NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE		
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

INSPECTION TASKS AFTER WELDING [1]

INSPECTION TASKS AFTER TO WELDING	QUALITY ASSURANCE	QUALITY CONTROL
1. WELDS CLEANED	O	O
2. SIZE, LENGTH, AND LOCATION OF WELDS	P	P
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE METAL FUSION • CRATER CROSS SECTION • WELD PROFILE • WELD SIZE • UNDERCUT • POROSITY	P	P
4. ARC STRIKES	P	P
5. K-AREA (a)	P	P
6. WELD-ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (b)	P	P
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
8. REPAIR ACTIVITIES	P	P
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O
NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE		
NOTE a: WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEE PERFORMED IN THE K-AREA. VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN (75 MM) OF THE WELD		
NOTE b: AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1C) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1D) ARE WELDED. VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.		
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

INSPECTION TASKS PRIOR TO BOLTING [1]

INSPECTION TASKS PRIOR TO BOLTING	QUALITY ASSURANCE	QUALITY CONTROL
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	P	O
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
4. CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAILS	O	O
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	O	P
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O
NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE		
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

INSPECTION TASKS DURING BOLTING [1]

INSPECTION TASKS DURING BOLTING	QUALITY ASSURANCE	QUALITY CONTROL
1. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED	O	O
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION	O	O
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
4. FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O
NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE		
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

INSPECTION TASKS AFTER BOLTING [1]

INSPECTION TASKS AFTER BOLTING	QUALITY ASSURANCE	QUALITY CONTROL
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P
NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE		
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION AND TESTS FOR WIND-RESISTING COMPONENTS [1]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. FASTENING OF ROOF COVERING, ROOF DECK, ROOF FRAMING CONNECTIONS, EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGM AND FRAMING	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION AND TESTS OF WOOD CONSTRUCTION [1]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. SPECIAL INSPECTION OF PREFABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC 2018	--	X
2. OWNER WILL ENGAGE A QUALIFIED SPECIAL INSPECTOR TO VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION AND TESTS FOR WIND RESISTANCE ON STRUCTURAL WOOD [1]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. DURING FIELD GLUING OPERATIONS OF THE MAIN WIND FORCE-RESISTING SYSTEM	X	--
2. FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM. INCLUDING SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLDOWNS	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL CONSTRUCTION [1]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. MATERIAL VERIFICATION OF COLD-FORM STEEL DECK:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X
B. MANUFACTURER'S CERTIFICATE TEST REPORTS	--	X
2. INSPECTION OF WELDING:		
A. COLD-FORMED STEEL DECK:		
1. FLOOR AND ROOD DECK WELDS	--	X
B. REINFORCING STEEL:		
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	--	X
2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	--
3. SHEAR REINFORCEMENT	X	X
4. OTHER REINFORCING STEEL	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: JEB/WLM
CHECKED BY: TJS/MMB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

REGISTERED PROFESSIONAL ENGINEER
SAMUEL J. WILKE
PE-6697
DATE 10/29/2026
NORTH DAKOTA

DRAWING TITLE
SPECIAL INSPECTION TABLES

S003

Revit Version: 2025
Plot Date: 11/6/2026 12:07:23 PM

CONCRETE PIER SCHEDULE

MARK	PIER SIZE	REINFORCING		REMARKS
		VERTICAL	TIE SIZE/SPACING	
CP-1	16" x 16"	(4) #8's	#3's @ 8" O/C	

NOTES:
1. CIP CONCRETE PIER CAST MONOLITHICALLY WITH FOUNDATION WALL WHERE APPLICABLE.
2. TYPICAL HORIZONTAL WALL REINFORCING TO RUN CONTINUOUS THROUGH PIER WHERE APPLICABLE.
3. PLACE PIER SUCH THAT COLUMN ANCHOR RODS & REINF ARE CONTAINED WITHIN PIER TIES.
4. CONTRACTOR TO COORD PIER DIM'S W/ PEMB SUPPLIER ANCHOR ROD LAYOUT.
5. BLOCKOUT FOUNDATION WALL AS REQUIRED FOR INSTALLATION OF STEEL BASE PLATE/COLUMN CONTRACTOR TO COORDINATE LAYOUTS.
6. PROVIDE SHEAR LUG BLOCKOUT AT TOP OF PIER AS SHOWN IN DETAIL, AS REQUIRED. PROVIDE 1 1/4" CLEAR BETWEEN BLOCKOUT AND SHEAR LUG AT ALL SIDES. UON.

SPREAD FOOTING SCHEDULE

MARK	FOOTING		REINFORCING	REMARKS
	SIZE	THICKNESS		
F-1	4'-0" x 4'-0"	12"	(4) #5's EA. WAY	
F-2	6'-0" x 6'-0"	12"	(6) #5's EA. WAY	
F-3	7'-0" x 7'-0"	14"	(8) #5's EA. WAY	
F-4	7'-0" x 9'-0"	18"	(4) #5's	
F-5	12'-0" x 12'-0"	24"	(23) #5's EA. WAY TOP & BTM	

FOUNDATION WALL SCHEDULE

MARK	WIDTH	MATERIAL	REINFORCING		REMARKS
			VERTICAL	HORIZONTAL	
W-1	8"	CONC	#5 @ 18" O/C	#5 @ 12" O/C	
W-2	1'-0"	CONC	#5 @ 18" O/C EA. FACE	#5 @ 18" O/C EA. FACE	
W-3	1'-2"	CONC	#5 @ 18" O/C EA. FACE	#5 @ 18" O/C EA. FACE	
W-4	1'-8"	CONC	#5 @ 14" O/C EA. FACE	#5 @ 14" O/C EA. FACE	SEE 7/S601

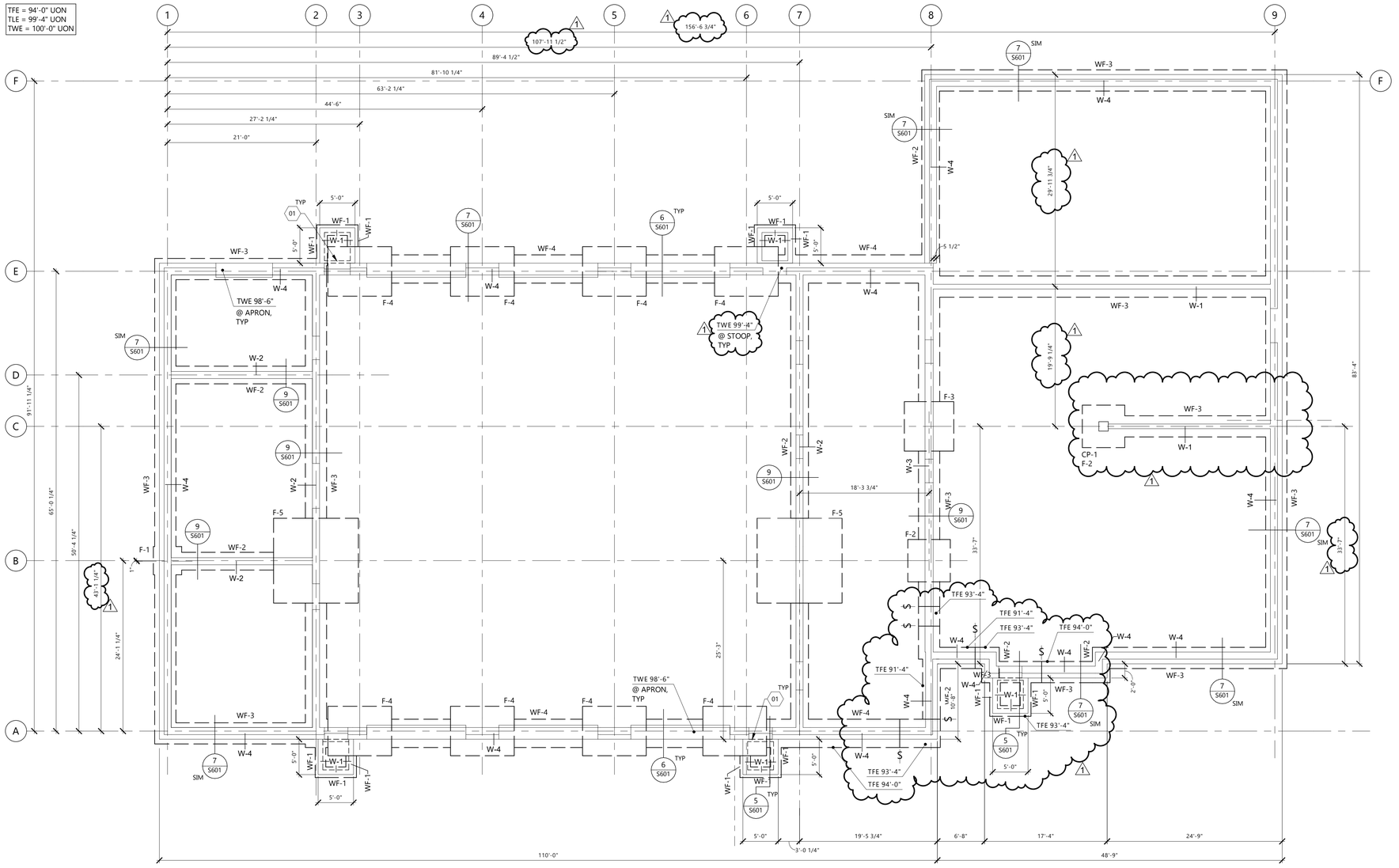
CONTINUOUS FOOTING SCHEDULE

MARK	FOOTING SIZE		REINFORCING		REMARKS
	WIDTH	THICKNESS	LONGITUDINAL	TRANSVERSE	
WF-1	1'-6"	12"	(2) #5 CONT	NA	
WF-2	2'-6"	12"	(3) #5 CONT	NA	
WF-3	3'-0"	12"	(3) #5 CONT	NA	
WF-4	4'-0"	12"	(4) #5 CONT	#5 @ 12" O/C	

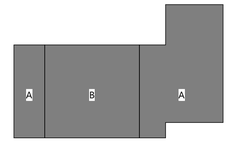
KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

01 PROVIDE 4" THICKENED WALL AT STOOP WITH DROPPED TOP OF CONCRETE FNDN WALL (-8" UON) AT EXTERIOR FACE, AND WIDEN CONT FOOTING BY 4" WITHIN STOOP SLAB TO PROVIDE BEARING LEDGE.



1 S200 FOUNDATION PLAN
1/8" = 1'-0"



KEY PLAN

Revit Version: 2025
Revit Saved: 1/30/2026 12:07:24 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20253510
DRAWN BY: WLM
CHECKED BY: TJS

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

REGISTERED PROFESSIONAL ENGINEER
SAMUEL J. WILKE
PE-6697
DATE 10/29/2026
NORTH DAKOTA

DRAWING TITLE
FOUNDATION PLAN

S200

STEEL COLUMN SCHEDULE

MARK	SIZE	BASEPLATE TYPE	BASEPLATE L	BASEPLATE W	BASEPLATE T	ANCHOR RODS NUM.	ANCHOR RODS DIA.	ANCHOR RODS EMBED	ANCHOR RODS GRADE	REMARKS
C-1	HSS3x3x3/16	A	6"	6"	1/2"	4	1/2"	9"	36	SEE 11/S601
C-2	HSS3.5x3/8	B	10"	6"	3/4"	4	3/4"	16"	36	SEE 11/S601

THICKENED SLAB SCHEDULE

MARK	THICKENED SLAB SIZE WIDTH	THICKNESS	REINFORCING	REMARKS
TS-1	1'-6"	12"	(2) #5 CONT @ BTM	
TS-2	2'-0"	12"	(2) #5 CONT @ BTM	

THICKENED SLAB EDGE SCHEDULE

MARK	THICKENED SLAB SIZE WIDTH	THICKNESS	REINFORCING	REMARKS
TSE-1	1'-6"	12"	(2) #5 CONT @ BTM	

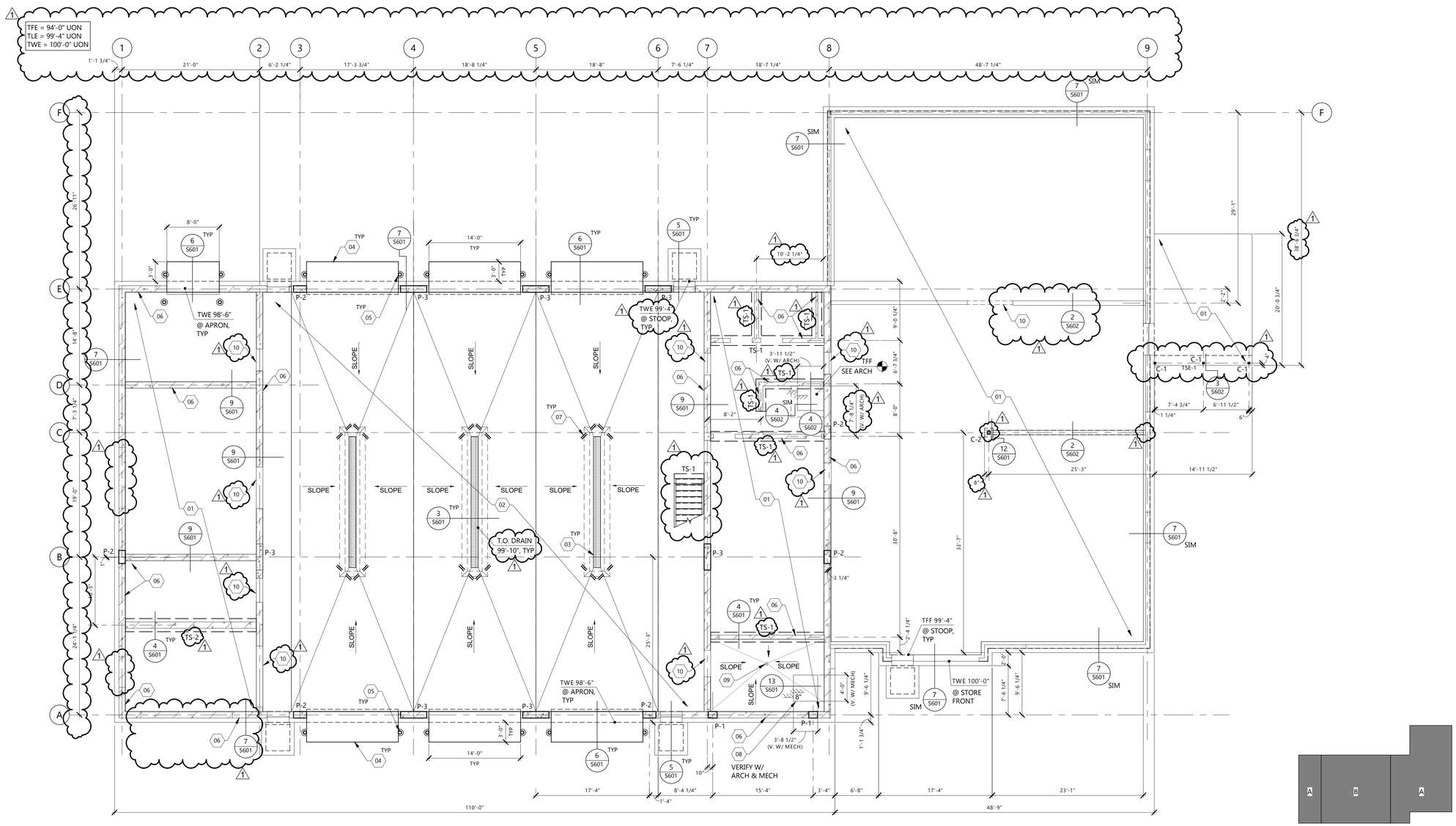
MASONRY PIER SCHEDULE

MARK	PIER SIZE	REINFORCING VERTICAL	REINFORCING TIE SIZE/SPACING	REMARKS
P-1	12" x 16"	(4) #5's	#3 @ 8" O/C	
P-2	12" x 24"	(4) #5's	#3 @ 8" O/C	
P-3	12" x 48"	(6) #5's	#3 @ 8" O/C	

KEYNOTE LEGEND:

⬡ - INDICATES KEYNOTE ON PLAN

01	4" THICK CONCRETE SLAB ON GRADE W/ IN-FLOOR HEAT (SEE MECH) REINFORCE W/ #4 BARS @ 18" O/C EA WAY OVER 10 MIL VAPOR BARRIER OVER 6" DRAINAGE COURSE
02	6" THICK CONCRETE SLAB ON GRADE W/ IN-FLOOR HEAT (SEE MECH) REINFORCE W/ #4 BARS @ 12" O/C EA WAY. PLACE SLAB OVER 2" RIGID INSULATION OVER 10 MIL VAPOR BARRIER OVER 6" DRAINAGE COURSE
03	TRENCH DRAIN. COORDINATE SLOPE OF SLAB AND LOCATION OF GRATE ELEVATION W/ ARCH & MECH -SEE DETAIL 3/S601
04	CONCRETE APRON @ OVERHEAD DOORS (VERIFY FINAL SIZE & LOCATION W/ ARCH), AND PROVIDE 4" THICKENED WALL TO INTERIOR FACE OF FNDN. SEE 6/S601.
05	BOLLARD -SEE CIVIL/ARCH. & DETAIL 10/S601
06	CMU WALL, SEE S301 FOR MORE INFO
07	(2) #3 x 3'-0" BARS CENTERED IN SLAB @ EACH CORNER OF TRENCH DRAIN
08	8" THICKENED SLAB EXTRACTOR PAD. VERIFY FINAL SIZE, LOCATION, AND TOP ELEVATION W/ ARCH & MECH. PROVIDE #5 @ 12" O/C EA WAY @ BTM (3" CLR)
09	FLOOR DRAIN. CONFIRM LOCATION, FLOOR SLOPE, DRAIN DEPTH AND SIZE WITH ARCH & MECH
10	CUT DOWN FOUNDATION WALL 8" @ DOOR OPENINGS



1 S201 — SLAB PLAN
1/8" = 1'-0"

KEY PLAN

N

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CONSULTANTS

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: JEB/WLM
CHECKED BY: TJS/MMB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

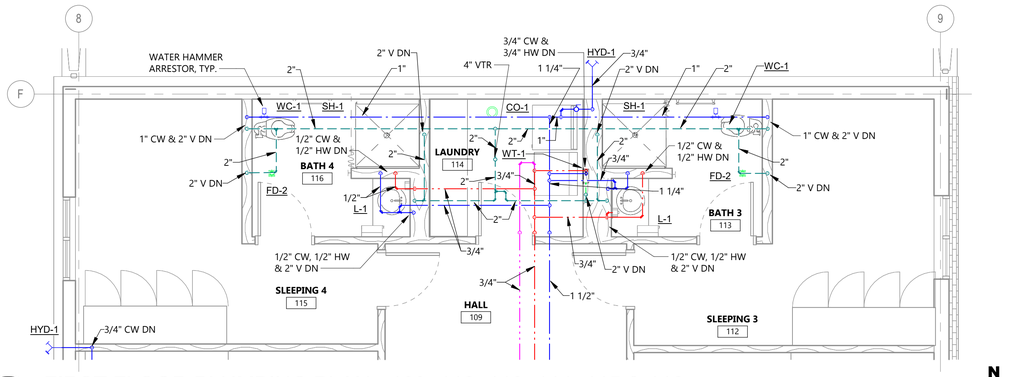
STAMP

REGISTERED PROFESSIONAL ENGINEER
SAMUEL J. WILKE
PE-6697
DATE 10/29/2026
NORTH DAKOTA

DRAWING TITLE
SLAB PLAN

S201

Revit Version: 2025
Revit Date: 11/6/2026 12:07:25 PM



2 P201 FIRST FLOOR PLUMBING PLAN - 109, 112, 113, 114, 115 & 116

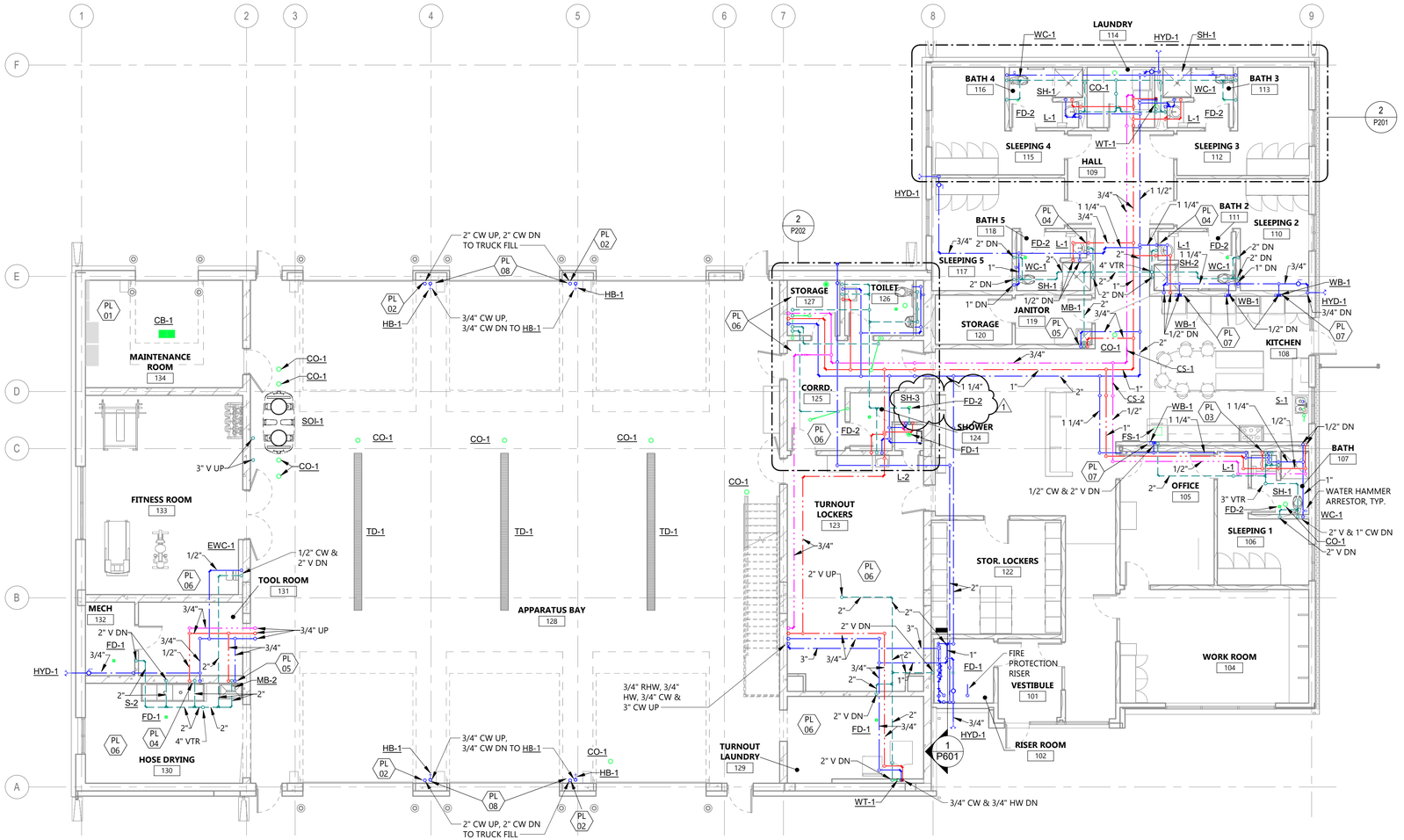
1/4" = 1'-0"

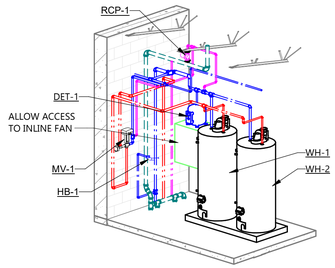
N

KEYNOTE LEGEND:

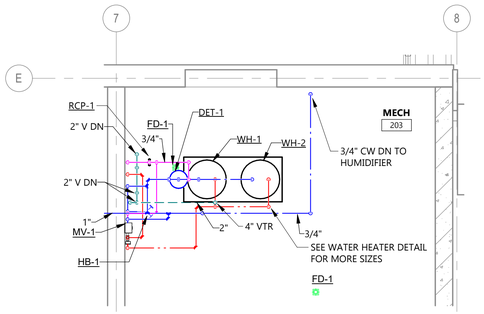
< < < INDICATES KEYNOTE ON PLAN

PL 01	NO PIPING ALLOWED ABOVE ELECTRICAL PANELS.
PL 02	2" MANUAL TRUCK FILL, PROVIDE ADAPTOR TO FIRE DEPARTMENT HOSE THREAD. VERIFY STYLE WITH FIRE DEPARTMENT PRIOR TO INSTALLATION INSTALL FILL CONNECTION AND VALVE AT 48" AFF (VERIFY WITH FIRE DEPARTMENT).
PL 03	1/2" HW, 2" V, 1/2" CW & 2" V DN.
PL 04	1/2" HW, 2" V & 1/2" CW DN.
PL 05	3/4" HW, 2" V & 3/4" CW DN.
PL 06	ROUTE ALL PLUMBING PIPING AS HIGH AS POSSIBLE AND TIGHT TO STRUCTURE. COORDINATE WITH ALL TRADES TO MAXIMIZE AVAILABLE CEILING SPACE AND AVOID CONFLICTS WITH STRUCTURAL AND BUILDING SYSTEMS.
PL 07	FINAL CONNECTION WILL BE PROVIDED WITH BACKFLOW PREVENTION AND BY PLUMBING CONTRACTOR.
PL 08	COORDINATE PIPING LOCATION WITH GC FOR OVERHEAD DOOR OPERATORS.

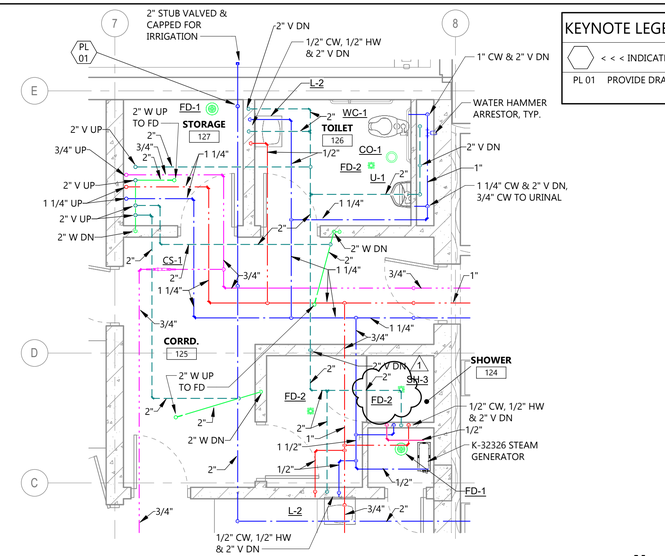

1
2
3
4
5
6
7
8
9
F
E
D
C
B
A
LAUNDRY 114
WC-1
HYD-1
SH-1
BATH 4 116
SH-1
CO-1
WC-1
BATH 3 113
FD-2
L-1
L-1
FD-2
2 P201
SLEEPING 4 115
WT-1
SLEEPING 3 112
HALL 109
HYD-1
3/4"
1 1/2"
1 1/4"
3/4"
PL 04
BATH 2 111
SLEEPING 2 110
BATH 5 118
3/4" 2" DN
FD-2
L-1
SLEEPING 5 117
1"
WC-1
2" DN
2" DN
2" DN
2" V DN
1" DN
SH-1
1/2" DN
JANITOR 119
MB-1
PL 05
STORAGE 120
CO-1
WB-1
1/2" DN
PL 07
KITCHEN 108
WB-1
HYD-1
3/4" DN
PL 07
2" V DN
4" VTR
2" DN
1" DN
3/4"
WB-1
1/2" DN
2" DN
1"
2"
2" V DN
2" V DN
2" V DN



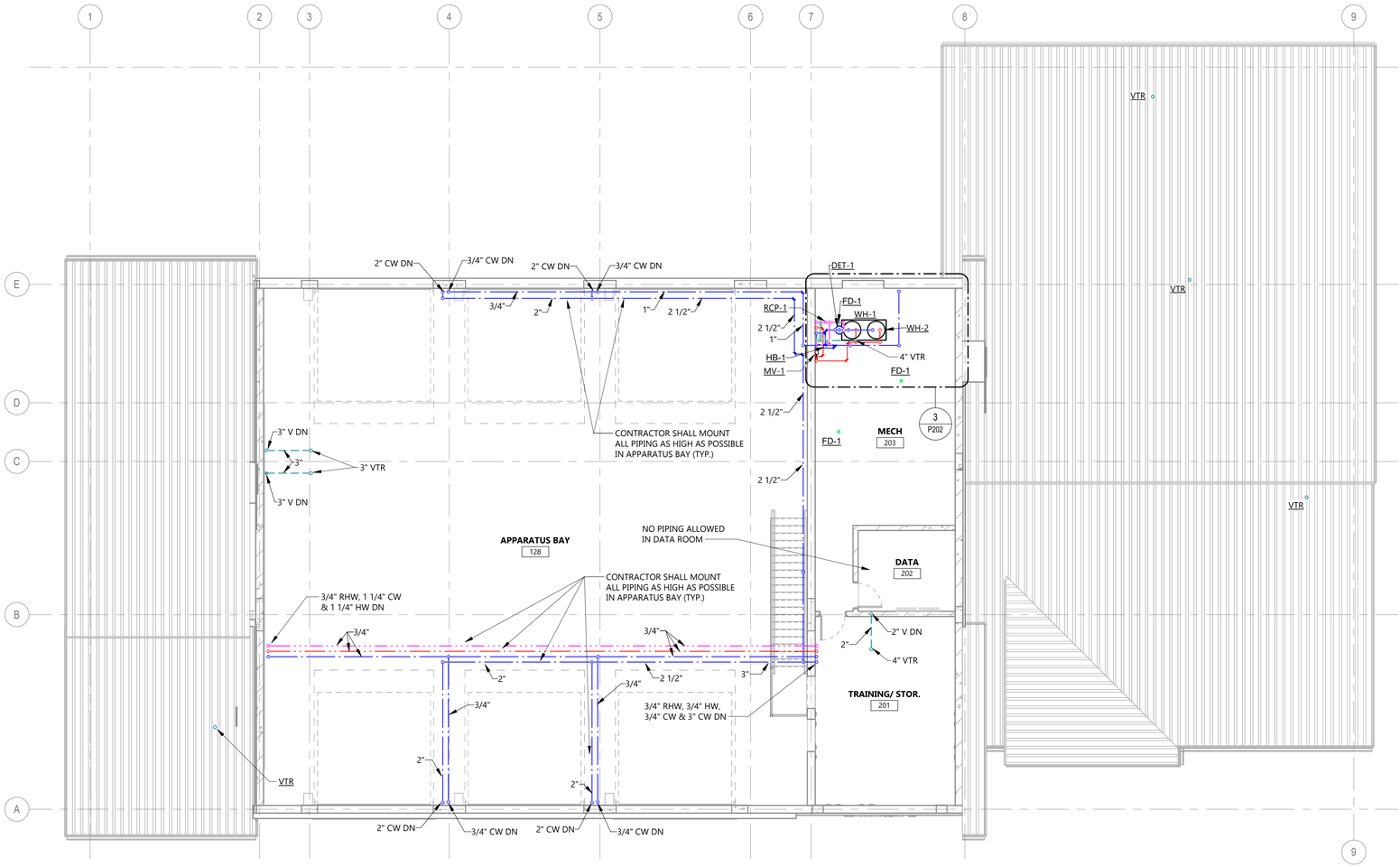
4 P202 MECHANICAL ROOM 203
NOT TO SCALE



3 P202 ENLARGED PLUMBING PLAN - MECH 203
1/4" = 1'-0"



2 P202 FIRST FLOOR PLUMBING PLAN - 124, 125, 126 & 127
1/4" = 1'-0"



1 P202 SECOND FLOOR PLUMBING PLAN
1/8" = 1'-0"

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

PL 01 PROVIDE DRAIN WITH BALL VALVE AND 3/4" FEMALE GARDEN HOSE CONNECTION.

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: CL
CHECKED BY: JL

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

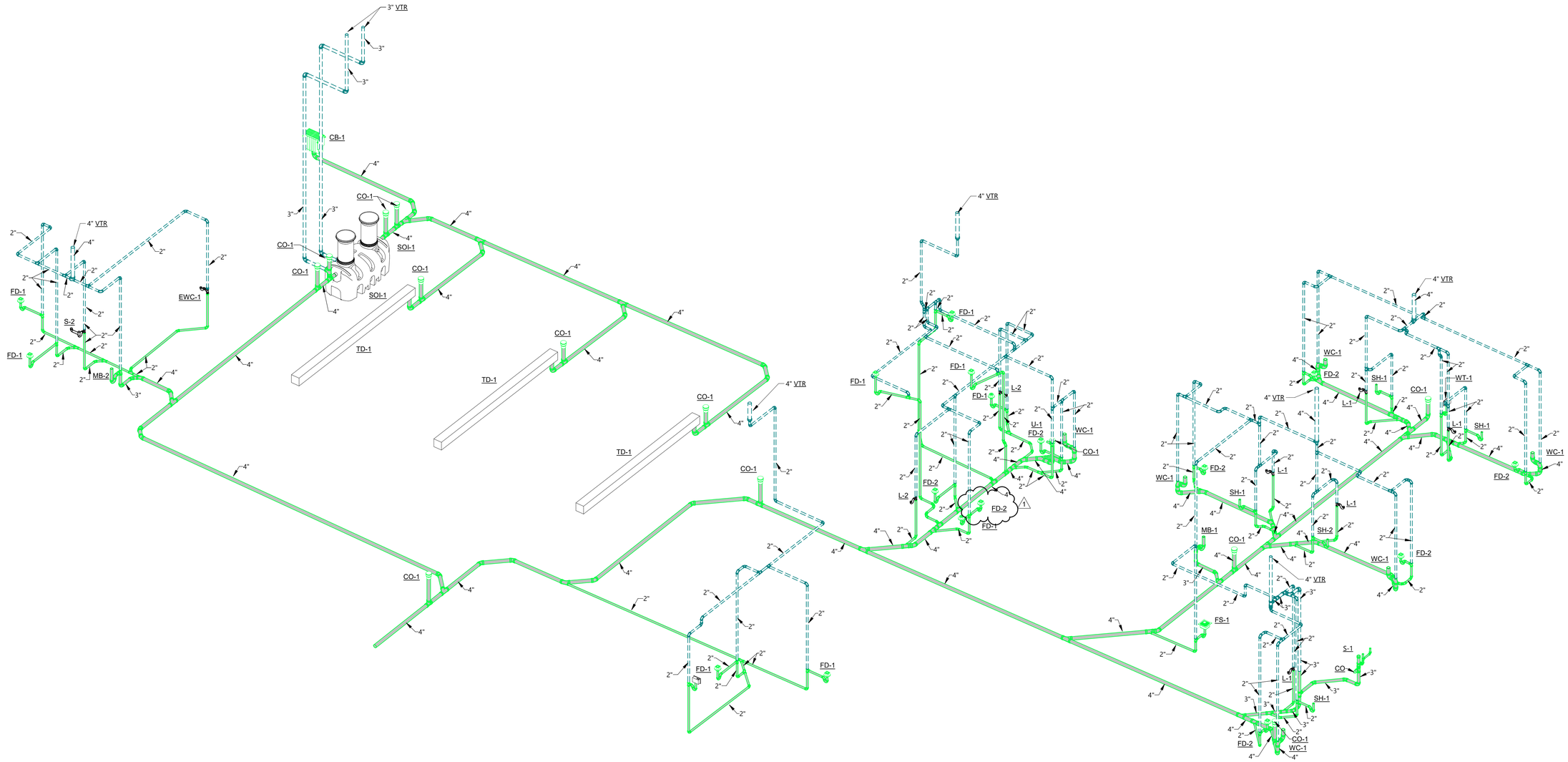
STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7432
DATE 11/06//2026
NORTH DAKOTA

DRAWING TITLE
SECOND FLOOR PLUMBING PLAN

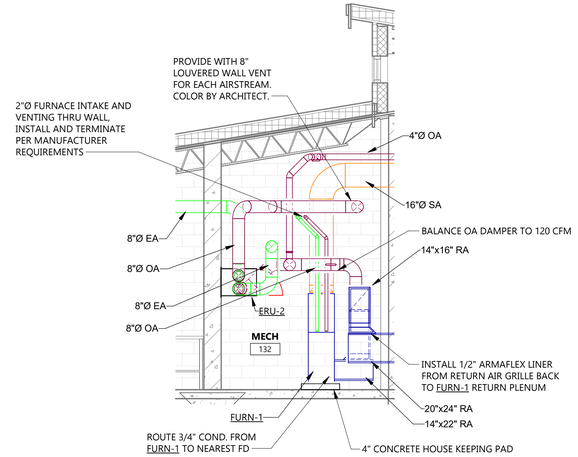
P202

Revit Version: 2025
Plot Date: 11/6/2026 9:56:47 AM


3" VTR
3"
3"
CB-1
4"
CO-1
3"
3"
4"
CO-1
SOI-1
CO-1
CO-1
SOI-1
4"
4"
TD-1
CO-1
4"
4"
TD-1
4" VTR
CO-1
4"
TD-1
4"
CO-1
4"
4" VTR
2"
2"
4"
2"
FD-1
2"
2"
EWC-1
S-2
2"
2"
FD-1
2"
MB-2
2"
4"
3"
2"
2"
2

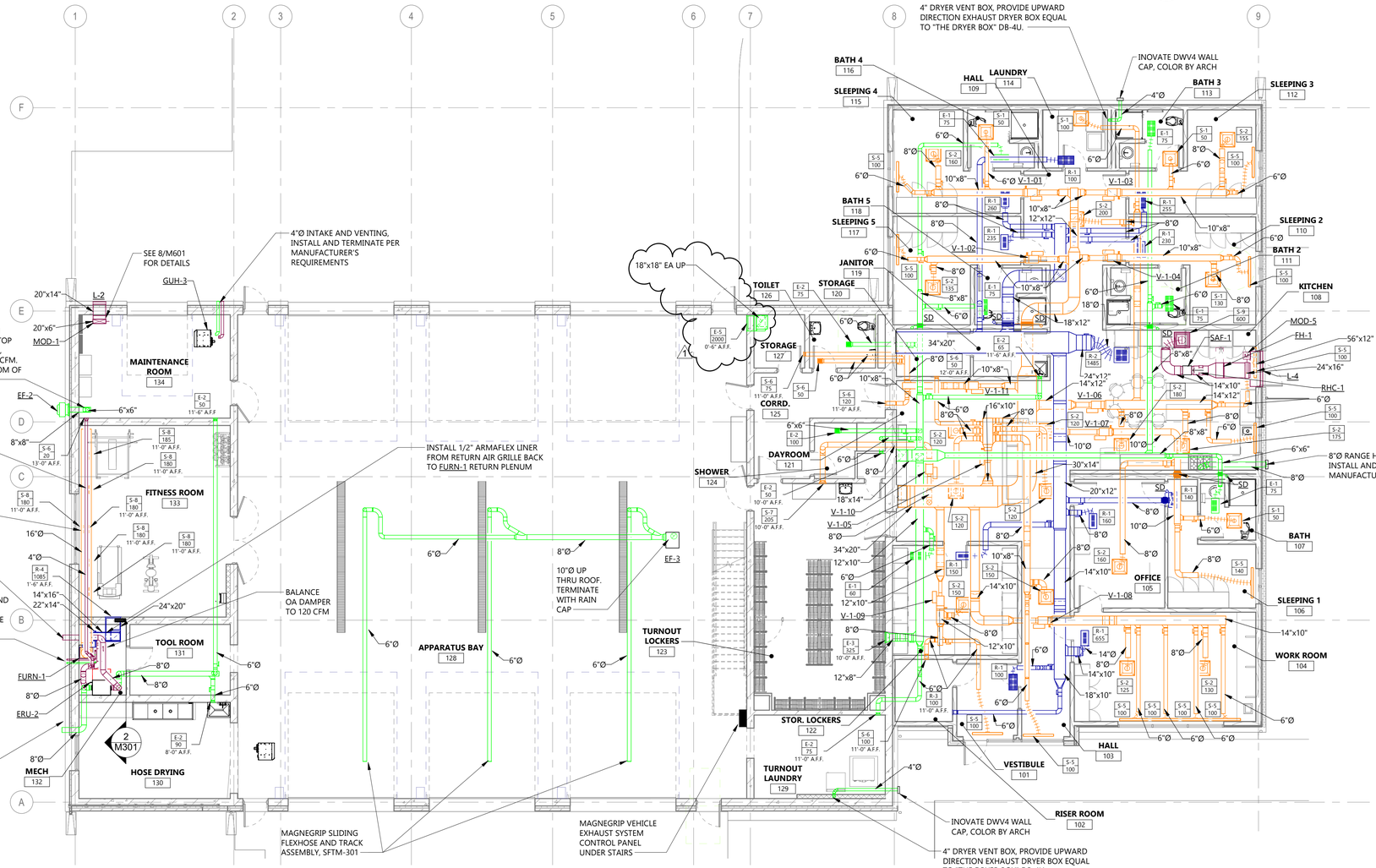
GENERAL NOTES

ALL GRILLES TO BE PRIMED AND FIELD PAINTED, ALL DUCTWORK TO BE FIELD PAINTABLE BY G.C. IN NON SLEEPING AREAS.



2 M301 FURN-1 SECTION

1/4" = 1'-0"



1 M301 FIRST FLOOR VENTILATION PLAN

1/8" = 1'-0"

N

EAPC

Architecture | Engineering
Interior Design | Industrial

TELEPHONE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: SR
CHECKED BY: AB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

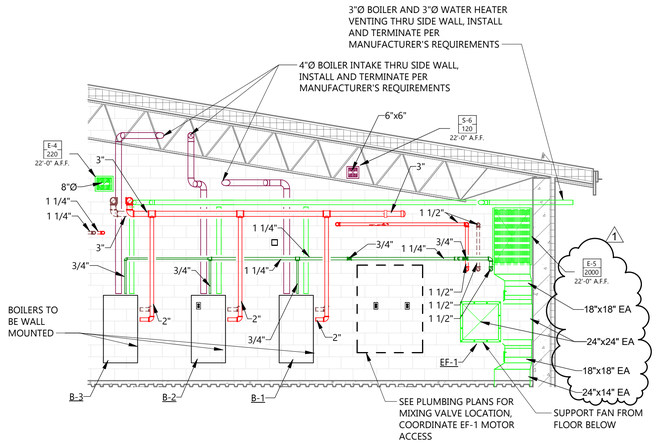
STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 11/06/2026
NORTH DAKOTA

DRAWING TITLE
FIRST FLOOR VENTILATION PLAN

M301

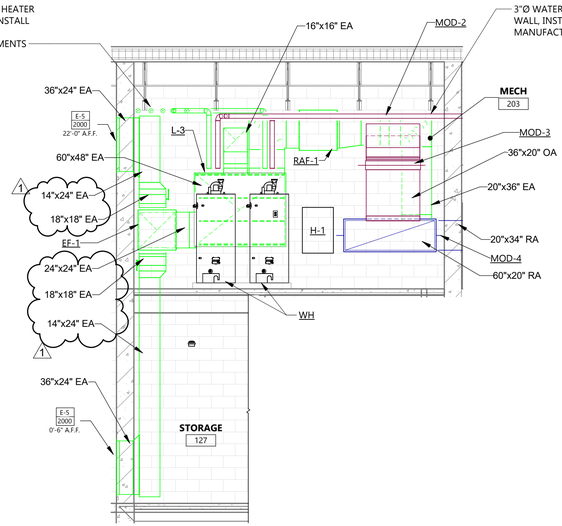
Revit Version: 2025
Revit Date: 11/06/2026 9:44:39 AM



4 M302

BOILER SECTION

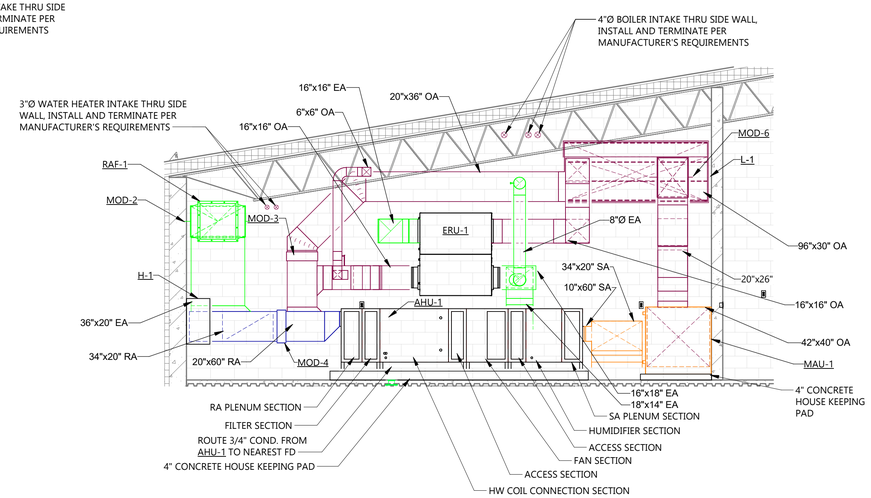
1/4" = 1'-0"



3 M302

EF-1, L-3, RAF-1 SECTION

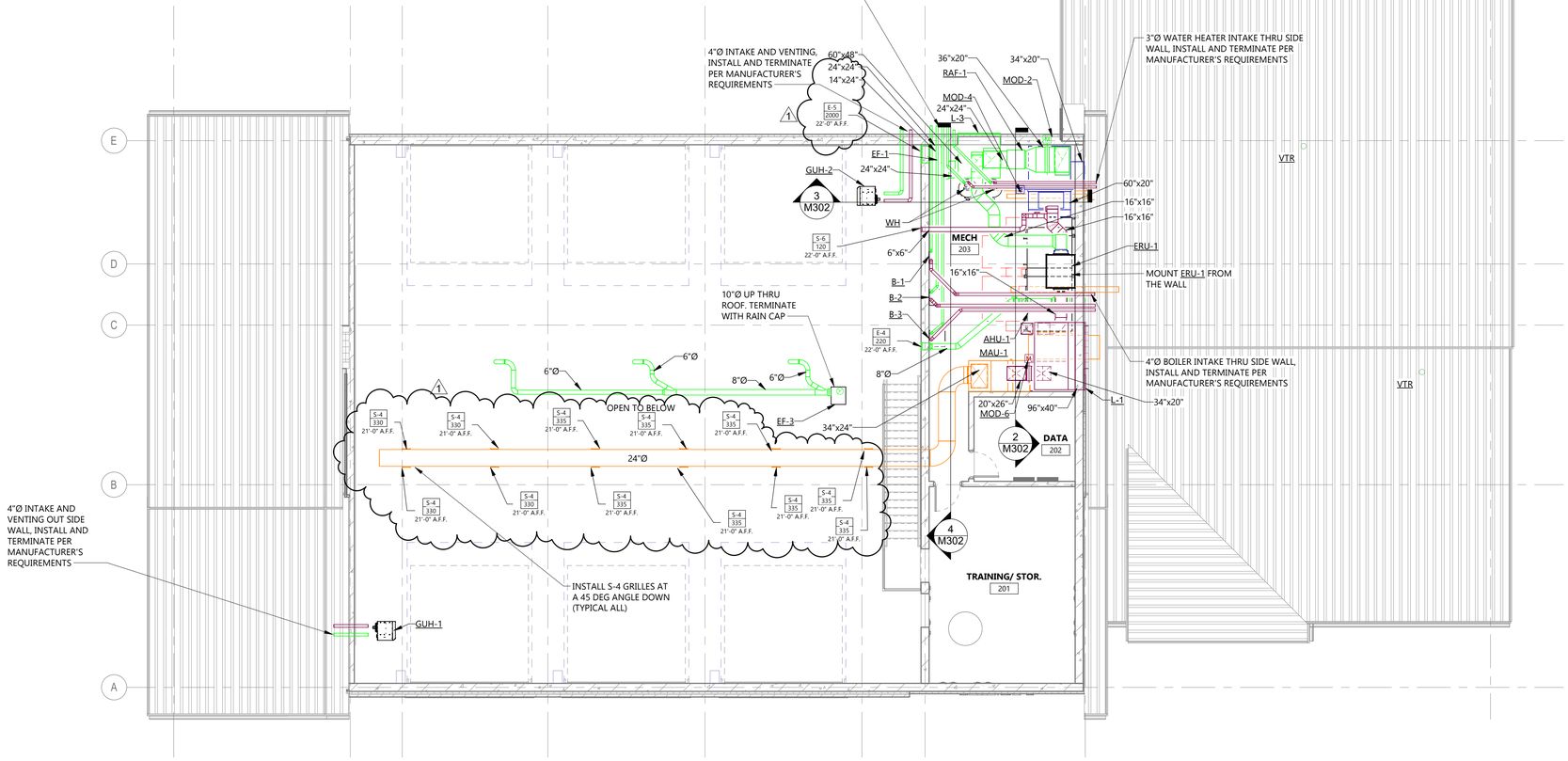
1/4" = 1'-0"



2 M302

AHU-1 SECTION

1/4" = 1'-0"



1 M302

SECOND FLOOR VENTILATION PLAN

1/8" = 1'-0"

GENERAL NOTES

1. ALL GRILLES TO BE PRIMED AND FIELD PAINTED, ALL DUCTWORK TO BE FIELD PAINTABLE BY G.C. IN NON SLEEPING AREAS.

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: SR
CHECKED BY: AB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 11/06/2026
NORTH DAKOTA

DRAWING TITLE
SECOND FLOOR VENTILATION PLAN

M302

Revit Version: 2025
Plot Date: 11/6/2026 9:44:42 AM

GAS LOAD SCHEDULE

ROOM	TAG	CFH
APP BAY	GUH-1	60
APP BAY	GUH-2	60
MAINTENANCE ROOM	GUH-3	45
UPPER MECHANICAL	B-1	399
UPPER MECHANICAL	B-2	399
UPPER MECHANICAL	B-3	399
UPPER MECHANICAL	WATER HEATER	75
UPPER MECHANICAL	WATER HEATER	75
KITCHEN	RANGE	120
PATIO	GRILLE	70
LOWER MECHANICAL	FURN-1	60
	TOTAL CFH =	1,762

PUMP SCHEDULE

NUMBER	SERVICE	MFGR.	MODEL	PUMP TYPE	GPM	TOTAL HEAD	MOTOR CHARACTERISTICS RPM	BHP	HP	V / PH	NOTES:
P-1	HEATING WATER PUMP	BELL & GOSSETT	e-80 3x3x7C	INLINE	108	40	1,800	1.7	3	208 / 3	1, 2, 3
P-2	HEATING WATER PUMP	BELL & GOSSETT	e-80 3x3x7C	INLINE	108	40	1,800	1.7	3	208 / 3	1, 2, 3
BP-1	BOILER PUMP	BELL & GOSSETT	ECOCIRC XL 15-75	INLINE	35	10	2,325	-	0.167	115 / 1	3
BP-2	BOILER PUMP	BELL & GOSSETT	ECOCIRC XL 15-75	INLINE	35	10	2,325	-	0.167	115 / 1	3
BP-3	BOILER PUMP	BELL & GOSSETT	ECOCIRC XL 15-75	INLINE	35	10	2,325	-	0.167	115 / 1	3

1. PUMPS TO OPERATE IN LEAD LAG OPERATION.
2. VFD BY SECTION 230923.30. PROVIDE SHAFT GROUNDING KITS FOR PUMPS W/ VFD'S
3. FLUID IS 40% PROPYLENE GLYCOL.

REGISTER-GRILLE-DIFFUSER SCHEDULE

						1 = STEEL 2 = ALUM. 3= S. STEEL	1 = OFFWHITE 2 = CLEAR-ALUM 3 = #84 BLACK	MANUF. UNLESS NOTED OTHERWISE	
TAG	TYPE	FACE	NECK SIZE	FRAME	CFM	MATERIAL	FINISH	PRICE MODEL	NOTES:
S-1	S	SQUARE CONE / LAY-IN	6"Ø	24"x 24"	0-125	1	1	SCD	1, 2
S-2	S	SQUARE CONE / LAY-IN	8"Ø	24"x 24"	126-250	1	1	SCD	1, 2
S-3	S	SQUARE CONE / LAY-IN	10"Ø	24"x 24"	251-450	1	1	SCD	1, 2
S-4	S	24"Ø SPIRAL DUCT GRILLE	12"x 8"	13-3/4"x 9-3/4"	SEE PLAN	2	SEE NOTE 6	SDGE	5, 6
S-5	S	SLOT DIFFUSER (2) 1 1/2" SLOTS	6"Ø	3"x48"	SEE PLAN	1	1	SDS150	1, 2, 4
S-6	S	FIXED GRILLE	6"x6"	7-3/4"x 7-3/4"	SEE PLAN	1	SEE NOTE 6	510	3, 6
S-7	S	FIXED GRILLE	10"x6"	11-3/4"x 7-3/4"	SEE PLAN	1	SEE NOTE 6	510	3, 6
S-8	S	16"Ø SPIRAL DUCT GRILLE	12"x 6"	13-3/4"x 7-3/4"	SEE PLAN	2	SEE NOTE 6	SDGE	5, 6
S-9	S	PERFORATED DIFFUSER	12"Ø	24"x 24"	SEE PLAN	1	1	PDDR	1, 2
R-1	R	EGG CRATE / LAY-IN	-	12"x 24"	0-1000	1	1	80	1, 2
R-2	R	EGG CRATE / LAY-IN	-	24"x 24"	1001-2000	1	1	80	1, 2
R-3	R	FIXED GRILLE	6"x6"	7-3/4"x 7-3/4"	SEE PLAN	1	SEE NOTE 6	530	3, 6
R-4	R	FIXED GRILLE	28"x20"	29-3/4"x 21-3/4"	SEE PLAN	1	SEE NOTE 6	530	3, 6
E-1	E	EGG CRATE / LAY-IN	-	12"x 24"	0-1000	2	1	80	1, 2
E-2	E	FIXED GRILLE	6"x6"	7-3/4"x 7-3/4"	SEE PLAN	1	SEE NOTE 6	530	3, 6
E-3	E	FIXED GRILLE	16"x10"	17-3/4"x 11-3/4"	SEE PLAN	1	SEE NOTE 6	530	3, 6
E-4	E	FIXED GRILLE	10"x8"	11-3/4"x 9-3/4"	SEE PLAN	1	SEE NOTE 6	530	3, 6
E-5	E	FIXED GRILLE	24"x36"	225-3/4"x 37-3/4"	SEE PLAN	1	SEE NOTE 6	630	3, 6

1. LAY-IN CEILING, VERIFY TYPE WITH ARCHITECTURAL PLANS.
2. FLEXIBLE DUCT SIZE SHALL MATCH DIFFUSER NECK SIZE.
3. CAULK DIFFUSERS AND GRILLE TO WALLS AND CEILINGS FOR AIR TIGHT SEAL.
4. PROVIDE WITH INSULATED SDB PLENUM
5. GRILLE SHALL BE DUCT MOUNTED. PROVIDE WITH OPTIONAL AIR SCOOP.
6. FIXED GRILLES IN ROOMS: 102, 119, 120, 122, 123, 125, 128, 130, 133, 134 TO BE PRIMED AND FIELD PAINTED. ALL FIXED GRILLES IN ROOMS 124 AND 126 TO BE WHITE

AIR FILTER RACK SCHEDULE

		FILTER HOUSING					FILTER		
TAG	CFM	FLANDERS MODEL #	HEIGHT	WIDTH	LENGTH	QUAN.	SIZE	EFFICIENCY	NOTES:
FH-1	600	SP2/4-05H10W	15"	24"	12"	1	12"x24"	MERV 8	1

1. PROVIDE WITH MAGNEHELIC DIFFERENTIAL PRESSURE GAGE.
2. PROVIDE A 4" FILTER. CLEAN FILTER PRESSURE DROP SHALL BE < 0.2" w.g.

HYDRONIC SPECIALTIES SCHEDULE

HVAC SYSTEM	DESCRIPTION	MANUFACTURER	MODEL NUMBER	DESIGN CAPACITY	NOTES:
HEATING WATER	AIR SEPARATOR	ITT BELL & GOSSETT	RL-3F	190 GPM	1
HEATING WATER	EXPANSION TANK	ITT BELL & GOSSETT	B-130	34 TANK VOLUME (GAL) 34 ACCEPT. VOLUME (GAL)	5
HEATING WATER	HIGH CAPACITY AUTO AIR VENT	ITT BELL & GOSSETT	NO. 107A	150 PSI	2
HEATING WATER	AUTO AIR VENT	ITT BELL & GOSSETT	NO. 87	150 PSI	
HEATING WATER	SIDE STREAM FILTER	SHELCO FILTERS	RHB-786-GP4I/O-V	7 GPM	3
HEATING WATER	VARIABLE AREA FLOWMETER	DWYER	HFB-3-15	2/15 GPM 3/4" N.P.T. CONNECTIONS	4
HEATING WATER	GLYCOL MAKE-UP UNIT	AXIOM	DMF300	1 GPM @ FREE FLOW 17 GAL TANK	6
HEATING WATER	INLINE MAGNETIC FILTER	ADEY	MAGNACLEAN COMMERCIAL	3"	

1. PROVIDE WITH BLOW DOWN VALVE.
2. PIPE DISCHARGE TO GLYCOL STORAGE TANK.
3. PROVIDE 6 REPLACEMENT 5 MICRON FILTERS.
4. PROVIDE BRASS END FITTINGS.
5. PROVIDE ASME CONSTRUCTION AND REPLACEABLE BLADDER. 20 PSIG SET PRESSURE. UNIT TO BE INSTALLED HORIZONTAL
6. PROVIDE WITH LOW LEVEL SAFETY SHUTDOWN SWITCH WITH REMOTE ALARM CONTACT AND INDICATOR LIGHT.

UNIT HEATER SCHEDULE - HOT WATER

TAG	ROOM NUMBER	TYPE	MANUFACTURER & MODEL #	PRESSURE GPM	PRESSURE DROP	OUTPUT MBH	CFM	FAN MOTOR HP	FAN MOTOR V / PH	FAN MOTOR FLA (A)	NOTES:
UH-1	MECH 203	HORIZONTAL SUSPENDED	RITTLING RH-24	1.0	0.3	7.6	450	1/30	115 / 1	0.70	1, 2

1. SELECTIONS BASED ON 140° F EWT, 70° F EAT & 30° F WTD. FLUID IS 40% PROPYLENE GLYCOL & WATER SOLUTION
2. PROVIDE WITH FACTORY WIRED & MOUNTED DISCONNECT

HEATING COIL SCHEDULE

		COIL CAP. (BTU)	HEATING AIR °F		COIL SIZE	CIRCULATING WATER (HEATING)			MAX PRESSURE DROP		
TAG	CFM	HEATING	ENT	LVG	(W"x H")	TEMP. IN °F	TEMP. OUT °F	GPM	WATER	AIR	NOTES:
RHC-1	600	66,113	-30	70	14"x12"	140	110	4.70	3.4'	0.4"	1, 2

1. MAXIMUM FACE VELOCITY = 550 FPM
2. COIL SELECTION BASED ON DAIKIN

RADIANT HEAT LOOP SCHEDULE

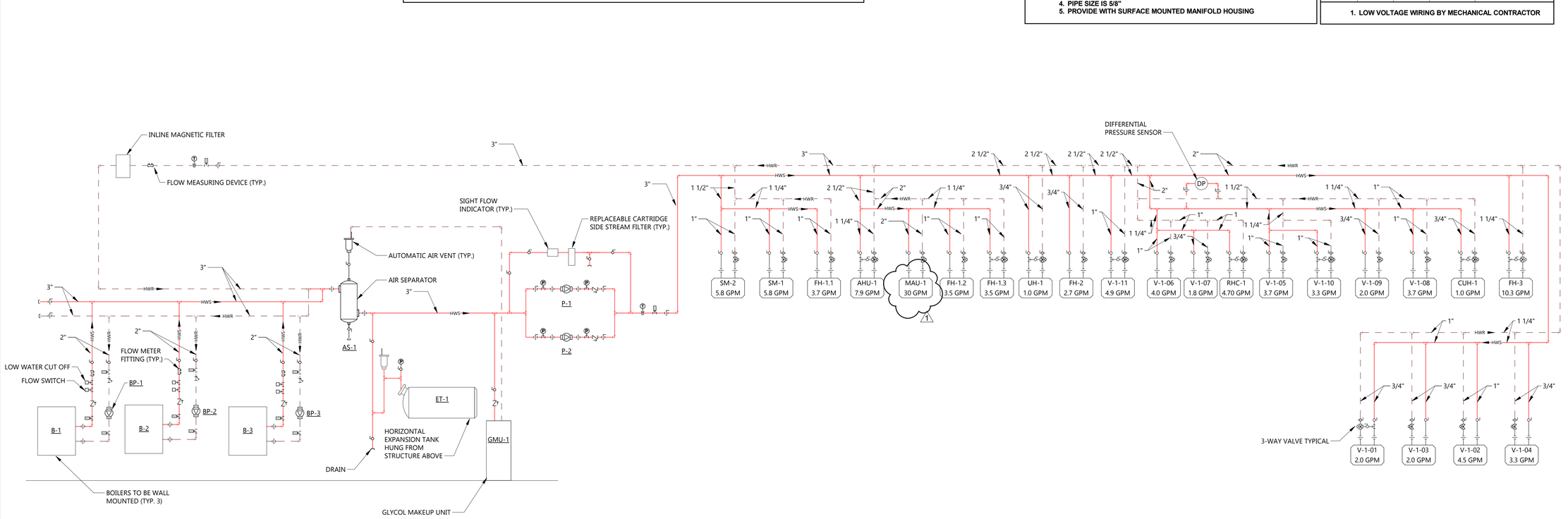
HEADER TAG	AREA SERVED	NUMBER OF LOOPS	AVG. LOOP LENGTH (FT.)	HEADER GPM	NOTES:
FH-1.1	APP BAY	6	312	3.7	1, 3, 4
FH-1.2	APP BAY	6	295	3.5	1, 3, 4
FH-1.3	APP BAY	6	295	3.5	1, 3, 4
FH-2	TURNDOWN SPACE	4	297	2.7	1, 3, 4
FH-3	LIVING SPACES	14	330	10.3	1, 3, 4, 5
SM-1	NORTH SIDE WALK	3	320	5.8	1, 2, 4
SM-2	SOUTH SIDE WALK	3	322	5.8	1, 2, 4

1. FLUID IS 40% PROPYLENE GLYCOL.
2. PIPE SPACING SHALL BE 6" ON CENTER
3. PIPE SPACING SHALL BE 12" ON CENTER
4. PIPE SIZE IS 5/8"
5. PROVIDE WITH SURFACE MOUNTED MANIFOLD HOUSING

MOTORIZED DAMPER SCHEDULE

TAG	SIZE WIDTH	SIZE HEIGHT	DAMPER ACTUATOR	NOTES:
MOD-1	20"	06"	24V	1
MOD-2	36"	20"	24V	1
MOD-3	36"	20"	24V	1
MOD-4	60"	20"	24V	1
MOD-5	24"	16"	24V	1
MOD-6	20"	26"	24V	1

1. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR



1 M801 MECHANICAL FLOW DIAGRAM
NOT TO SCALE

Revit Version: 2025
Plot Date: 11/6/2026, 9:44:43 AM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026

PROJECT NO: 20253510
DRAWN BY: SR
CHECKED BY: AB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 11/06/2026
NORTH DAKOTA

DRAWING TITLE
MECHANICAL FLOW DIAGRAM AND SCHEDULES

M801

AIR HANDLING UNIT SCHEDULE

TAG	AREA SERVED	CFM	SUPPLY FAN E.S.P.	SUPPLY FAN QUANTITY/BHP/HP BLOWER TYPE	CFM OUTSIDE AIR	HEATING CAPACITY					COOLING CAPACITY					MAXIMUM ALLOWABLE REFRIGERANT CHARGE DESIGN CRITERIA				UNIT SIZE	DAIKIN MODEL	ELECTRICAL					NOTES:
						MBH	EAT dB °F	LAT dB °F	MAX WPD	GPM	MBH	EAT dB °F	EAT wB °F	LAT dB °F	LAT wB °F	ROOM VOLUME (CUFT)	REF. TYPE	ALLOWABLE CHARGE (LBS PER CIRCUIT)	SYSTEM CHARGE (LBS PER CIRCUIT)			V / PH	FLA (A)	MCA (A)	MOP (A)	SCCR (kA)	
AHU-1	LIVING SPACE	5,000	1.5	2 / 2.59 BHP / 5 HP PLENUM FAN	1,225	111.23	40	60	5	7.9	138.9	80	67	55	54	7910	R454B	37.8	5.2	10	CAH010GDGC	208 / 3	14.5	32.6	45	65	1, 2, 3, 4, 5

1. AIR HANDLING UNIT SELECTION BASED ON DAIKIN
2. HEATING COIL ENTERING WATER TEMPERATURE IS 140° & 110° LEAVING WATER TEMPERATURE
3. REFRIGERANT IS R454B
4. HEATING FLUID IS 40% PROPYLENE GLYCOL / WATER SOLUTION
5. UNIT SHALL HAVE MOTORIZED IMPELLER FAN WITH 0-10 VOLT SPEED CONTROL

HUMIDIFIER SCHEDULE

TAG	UNIT SERVED	Steam Generator				ELECTRICAL					NOTES
		MANUFACTURER	MODEL	MAX CAPACITY LBS/HR	DIMENSIONS H x W x D	VOLTS/ PHASE	UNIT KW	FLA	MCA	MOCP	
H-1	AHU-1	CONDAIR	EL 75	70.9	30.7"x20.9"x15.7"	208/3	28.1	78	77.9	100	1, 2, 3, 4

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
2. UNIT IS ELECTRIC
3. PROVIDE WITH DRAIN TEMPERING KIT
4. PROVIDE WITH SCALTROL DOMESTIC WATER CONNECTION TO UNIT

SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	ROOM	MANUFACTURER	MODEL #	UNIT TYPE	OUTDOOR UNIT	CFM	COOLING MBH (TOTAL)	HEATING (MBH)	SEER2	MAXIMUM ALLOWABLE REFRIGERANT CHARGE DESIGN CRITERIA				ELECTRICAL				SYSTEM TYPE	NOTES:
										ROOM VOLUME (CUFT)	REF. TYPE.	ALLOWABLE CHARGE (LBS PER CIRCUIT)	SYSTEM CHARGE (LBS PER CIRCUIT)	V / PH	MOP (A)	MCA (A)	FLA (A)		
AC-1	ELEC / DATA	HAIER	QS09WB2BEA	INDOOR	ACCU-1	360	9,000	10,000.0	-	2,100.0	R-454B	37.8	2.3	208 / 1	-	-		MINI-SPLIT	1, 2, 3
ACCU-3	-	HAIER	1Q09TE2BEA	OUTDOOR	-	-	9,000	-	20.0	-	-	-	-	208 / 1	15.0	12.0		MINI-SPLIT	1, 4, 5

1. REFRIGERANT IS R-454B. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE UNITS COMPLETE WITH WIRELESS REMOTE THERMOSTAT
3. PROVIDE UNIT WITH OPTIONAL REFRIGERANT LEAK SENSOR UALS01A
4. INSTALL OUTDOOR UNITS PER MANUFACTURER'S REQUIREMENTS FOR SERVICE & OPERATING CLEARANCES.
5. PROVIDE WITH WALL MOUNTING KIT

LOUVER SCHEDULE

TAG	MANUFACTURER & MODEL #	CFM	FREE AREA (FT2)	VELOCITY (FT/MIN)	PRESSURE DROP (IN W.C.)	LOUVER SIZE			FINISH	MATERIAL	NOTES:
						WIDTH	HEIGHT	DEPTH			
L-1	GREENHECK ESD-435	6,100	14.6	419	0.03	96"	40"	4"	COLOR SELECTION BY ARCHITECT	ALUMINUM	1, 2, 3
L-2	GREENHECK ESD-435	210	0.7	318	0.02	20"	14"	4"	COLOR SELECTION BY ARCHITECT	ALUMINUM	1, 2, 3
L-3	GREENHECK ESD-435	10,345	11.0	941	0.12	60"	48"	4"	COLOR SELECTION BY ARCHITECT	ALUMINUM	1, 2, 3
L-4	GREENHECK ESD-435	600	1.7	365	0.02	56	12"	4"	COLOR SELECTION BY ARCHITECT	ALUMINUM	1, 2, 3

1. MANUFACTURER TO PROVIDE LOUVER WITH 1/2"x 1/2" BIRDSCREEN
2. COLOR SELECTION BY ARCHITECT.
3. INSTALLED BY M.C.

ENERGY RECOVERY SCHEDULE

TAG	MANUFACTURER MODEL	AREA SERVED	SA CFM	EA CFM	SA E.S.P. " W.G.	EA E.S.P. " W.G.	SA FAN WATTS	EA FAN WATTS	ENERGY RECOVERY								ELECTRICAL				NOTES:
									EFFECTIVENESS %			WINTER		SUMMER		ROOM CONDITIONS			V / PH	MCA (A)	MOP (A)	FLA (A) (PER MOTOR)	
									SENSIBLE	WINTER	SUMMER	EAT	LAT	EAT	LAT	WINTER	SUMMER						
ERU-1	RENEWAIRE HE16INV	AHU-1	1,345	1,345	0.75"	1.25"	770	770	67.5%	67.4%	57.6%	-30	37.5	93.9 / 69.6	81.1 / 65.5	70 / 51	75 / 63		208 / 1	7.7	15.0	3.4	1, 2, 3, 4, 5
ERU-2	RENEWAIRE EV200	FURN-1	140	140	0.5"	0.5"	135		79.9%	77.7%	74.0%	-30	49.9	93.9 / 69.6	78.8 / 64.3	70 / 51	75 / 63		120 / 1	10.0	15.0	1.5	1, 5, 6, 7

1. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTWORK CONNECTIONS TO UNIT.
2. PROVIDE SINGLE POINT POWER CONNECTION WITH FUSED DISCONNECT.
3. UNIT SHALL HAV EC MOTORS.
4. UNIT SHALL HAVE INTERNAL BYPASS WITH MOTORIZED DAMPERS.
5. PROVIDE UNIT WITH MOD ISOLATION DAMPERS ON BOTH AIRSTREAMS.
6. UNIT SHALL HAVE LINE-CORD PLUG IN POWER.
7. PROVIDE WITH 8" LOUVERED WALL VENT FOR EACH AIRSTREAM. COLOR BY ARCHITECT.

CABINET UNIT HEATER SCHEDULE

TAG	ROOM NUMBER	TYPE	MANUFACTURER & MODEL #	GPM	PRESSURE DROP	OUTPUT MBH	CFM	FAN MOTOR			NOTES:
								HP	V / PH	FLA (A)	
CUH-1	VESTIBULE 101	WALL MOUNTED	RITTLING RCW-400-06	1.0	0.2	9.0	403	1 / 15	120 / 1	1.13	1, 2, 3, 4

1. SELECTIONS BASED ON 140° F EWT, 70° F EAT & 30° F WTD. FLUID IS 40% PROPYLENE GLYCOL & WATER SOLUTION
2. PROVIDE WITH FACTORY WIRED & MOUNTED DISCONNECT
3. COLOR SELECTION BY ARCHITECT
4. PROVIDE WITH 120V FAN CONTROL PACKAGE.

MAKE-UP AIR UNIT SCHEDULE

NO	AREA SERVED	CFM	E.S.P. SAF	SA BHP	SA HP	% OUTSIDE AIR	HEATING CAPACITY					MANUFACTURER MODEL	ELECTRICAL				NOTES:
							OUTPUT MBH	EAT Db F	LAT dB F	MAX WPD	GPM		V / PH	MCA (A)	MOP (A)	SCCR (kA)	
MAU-1	APP BAY	4,000	0.5	1.19	1.50	100%	436.1	-30	70.7	2.371	30	GREENHECK MSX-P122-H22-D1	208 / 3	8.7	15.0	5	1, 2, 3, 4, 5, 6

1. INCLUDE FILTER RACK WITH 2" MERV 8 PLEATED FILTERS.
2. UNIT SHALL HAVE HORIZONTAL ORIENTATION WITH END INTAKE AND TOP DISCHARGE
3. INTERLOCK UNIT WITH CO/NO2 CONTROL SYSTEM AND VEHICLE EXHAUST SYSTEM.
4. PROVIDE WITH FACTORY SUPPLIED DISCONNECT AND AUX. SUPPLY STARTER CONTACT.
5. UNIT WEIGHT: 1016 #
6. HEATING FLUID SHALL BE 40% PROPYLENE GLYCOL WATER MIXTURE WITH 140 EWT AND 110 LWT

VARIABLE AIR VOLUME UNIT SCHEDULE

TAG	ROOM #	OUTLET SIZE	CFM			EAT	LAT	TOTAL BTU	EWT	LWT	GPM	NOTES
			HEAT MIN	HEAT MAX	COOL MAX							
V-1-01	115, 116	5"	275	300	310	55	97	13,608	140	110	2.00	1, 2, 3, 4
V-1-02	117, 118	6"	210	220	235	55	95	9,504	140	110	4.50	1, 2, 3, 4
V-1-03	112, 113	5"	295	305	305	55	97	13,835	140	110	2.00	1, 2, 3, 4
V-1-04	110, 111	5"	195	200	230	55	97	9,072	140	110	3.30	1, 2, 3, 4
V-1-05	103, 120, 121, 119	10"	720	750	780	55	85	24,300	140	110	3.70	1, 2, 3, 4
V-1-06	108, 109, 114	12"	765	800	855	55	90	30,240	140	110	4.00	1, 2, 3, 4
V-1-07	105, 106, 107	6"	265	325	350	55	97	14,742	140	110	1.80	1, 2, 3, 4
V-1-08	104	10"	510	590	655	55	90	22,302	140	110	3.70	1, 2, 3, 4
V-1-09	101, 102, 122	5"	260	300	350	55	97	13,608	140	110	2.00	1, 2, 3, 4
V-1-10	123	5"	205	205	205	55	97	9,299	140	110	3.30	1, 2, 3, 4
V-1-11	124, 125, 126, 127	5"	200	225	250	55	97	10,206	140	110	4.90	1, 2, 3, 4

1. VAV SELECTIONS BASED ON DAIKIN
2. AIR PRESSURE DROP TO BE LESS THAN 0.3" W.G.
3. SELECTIONS BASED ON 40% PROPYLENE GLYCOL & WATER SOLUTION
4. OUTLET SIZE IS FOR A STARTING POINT, VAV SHALL MEET AIR PRESSURE DROP AND PERFORMANCES ON...

BOILER SCHEDULE

TAG	MANUFACTURER	MODEL #	GPM	PD FT	EWT °F	LWT °F	GROSS INPUT BTU/HR	GROSS OUTPUT BTU/HR	FUEL	V / PH	FLA (A)	NOTES:
B-1	US BOILER COMPANY	ASPEN LT 399	30	1.6	115	140	399,000	379,000	NAT. GAS	120 / 1	<15	1, 2, 3, 4, 5, 6, 7, 8, 9
B-2	US BOILER COMPANY	ASPEN LT 399	30	1.6	115	140	399,000	379,000	NAT. GAS	120 / 1	<15	1, 2, 3, 4, 5, 6, 7, 8, 9
B-3	US BOILER COMPANY	ASPEN LT 399	30	1.6	115	140	399,000	379,000	NAT. GAS	120 / 1	<15	1, 2, 3, 4, 5, 6, 7, 8, 9

1. BOILER SHALL BE CONDENSING TYPE
2. BOILER INTAKE PIPING SHALL BE 4"Ø PVC. BOILER FLUE SHALL BE 4"Ø POLYPROPYLENE
3. ALL CONTROL WIRING SHALL BE BY CONTROL CONTRACTOR
4. PROVIDE WITH 30 PSIG RELIEF VALVE
5. PROVIDE WITH CONDENSATE NEUTRALIZER KIT
6. FLUID IS 40% PROPYLENE GLYCOL & WATER SOLUTION
7. DISCONNECT SWITCH PROVIDED BY DIV. 26.
8. EMERGENCY SHUTDOWN MUSHROOM BUTTON FOR BOILERS BY PROVIDED BY DIV. 26.
9. BOILERS SHALL BE WALL MOUNTED

FAN SCHEDULE

TAG	CFM	E.S.P.	MOTOR SIZE BHP	MOTOR SIZE HP	V / PH	AMPS	RPM	FRPM	DRIVE	MANUFACTURER	MODEL	SOUND DATA (INLET) 62.5	125	250	500	dBA	SONES	NOTES:
EF-1	4,000	1.00	1.56	2.00	208 / 3	6.5	1,650	1,643	DIRECT	GREENHECK	SQ-160-VG	80	79	87	85	74	22.0	1, 2, 3, 5, 12, 13
EF-2	210	0.50	0.05	0.40	115 / 1	1.5	1,725	1,535	DIRECT	GREENHECK	CUE-80-VG	71	74	68	62	55	7.3	1, 2, 3, 4, 12
EF-3	2,100	6.00	-	3.00	208 / 3	8.0	3,450	-	DIRECT	MAGNEGRIP	CF363-3	-	-	-	-	-	-	6, 7, 8, 9, 10
SAF-1	600	1.00	0.23	3/4	115 / 1	10.5	1,950	1,504	DIRECT	GREENHECK	SQ-130HP-VG	75	77	76	66	60	10.5	1, 2, 3, 5, 11
RAF-1	5,000	1.00	1.45	2.00	208 / 3	3.2	1,750	1,733	DIRECT	GREENHECK	SQ-16-VG	75	81	76	74	68	18.2	1, 2, 3, 5, 11

1. FAN SHALL BE UL LISTED
2. PROVIDE WITH FACTORY SUPPLIED DISCONNECT
3. PROVIDE WITH BACKDRAFT DAMPER
4. FAN TO BE WALL MOUNTED
5. UNIT SHALL BE INLINE ORIENTATION
6. UNIT IS PART OF VEHICLE EXHAUST SYSTEM PROVIDED AND INSTALLED BY MAGNEGRIP
7. UNIT SHALL HAVE CLASS II WHEEL CONSTRUCTION WITH TEFLON SHAFT SEAL
8. UNIT SHALL CARRY AMCA "C" CONSTRUCTION RATING
9. FAN OPERATION SHALL BE CONTROLLED BY BRAKE PEDAL, WHEN BRAKE IS DEPRESSED, FAN WILL START.
10. PROVIDE FAN VIBRATION ISOLATION PER MANUFACTURER'S REQUIREMENTS.
11. FAN SHALL BE ABLE TO TAKE A SPEED SIGNAL
12. FAN SHALL HAVE SPEED DIAL FOR BALANCING
13. UNIT SHALL HAVE LEFT SIDE DISCHARGE

FURNACE SCHEDULE

TAG	CFM	O.A.	ESP.	INPUT MBH	OUTPUT MBH	BLOWER DRIVE	MANUFACTURER MODEL	AFUE	ELECTRICAL				NOTES:
									V / PH	MOP (A)	MCA (A)	FLA (A)	
FURN-1	1,085	120 CFM	0.5	60.0	58.2	DIRECT 1/2 HP	DAIKIN DR96TN0603BN	96.0%	115 / 1	15.0	7.7	-	1, 2, 3, 4, 5

1. FUEL IS NATURAL GAS, UNIT SHALL HAVE TWO STAGE HEAT.
2. PROVIDE WITH AUTOMATIC SWITCHOVER, AUX DAMPER CONTROL, 7-DAY PROGRAMMABLE OCCUPIED/UNOCCUPIED THERMOSTAT
3. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR
4. DX COIL SHALL BE MATCHED WITH CORRESPONDING CONDENSING UNIT. PROVIDE UNIT WITH DX CASED A-COIL.
5. UNIT SHALL BE UPFLOW ORIENTATION.

AIR COOLED CONDENSING UNIT

TAG	CONTROLLED BY	COOLING BTUH (NOMINAL)	SEER2	EER	ELECTRICAL			SCCR (kA)	MANUFACTURER / MODEL #	NOTES:
					V / PH	MCA (A)	MOP (A)			
ACCU-1	AHU-1	163,800	-	11.0	208 / 3	61.0	80.0	5.0	RHEEM RACY2150CAZ	1, 2, 5, 6, 8
ACCU-2	FURN-1	60,000	16.6	-	208 / 1	22.4	25.0	5.0	DAIKIN DC6VSS3610	1, 2, 3, 4, 6, 7

MCA - MINIMUM CIRCUIT AMPACITY
1. 4" CONCRETE HOUSEKEEPING PAD FOR AIR COOLED CONDENSING UNITS BY MECHANICAL CONTRACTOR
2. DISCONNECT BY DIV. 26
3. UNIT SHALL BE CAPABLE OF COOLING DOWN TO 0 DEG F
4. REFRIGERANT IS R-32, INSTALL PER MANUFACTURERS RECOMMENDATIONS
5. REFRIGERANT IS R-454B, INSTALL PER MANUFACTURERS RECOMMENDATIONS
6. INSTALL OUTDOOR UNIT PER MANUFACTURER'S REQUIREMENTS FOR SERVICE AND OPERATING CLEARANCES
7. UNIT SHALL HAVE VARIABLE SPEED INVERTER TYPE COMPRESSORS
8. UNIT SHALL HAVE 2 STAGE COOLING

UNIT HEATER SCHEDULE - GAS

TAG	TYPE	LOCATION	MANUFACTURER & MODEL #	INPUT MBH	OUTPUT MBH	CFM	FLUE OUTLET	MOUNTING HEIGHT A.F.F.	GAS TYPE	FLA	FAN MOTOR		NOTES:
											HP	V / PH	
GUH-1	SUSPENDED HORIZONTAL	APP BAY	REZNOR UDXC 60	60	49.8	769	4	12'-6"	NATURAL	2.4	0.06	115 / 1	1, 2, 3, 4, 5
GUH-2	SUSPENDED HORIZONTAL	APP BAY	REZNOR UDXC 60	60	49.8	769	4	12'-6"	NATURAL	2.4	0.06	115 / 1	1, 2, 3, 4, 5
GUH-3	SUSPENDED HORIZONTAL	MAINTENANCE ROOM	REZNOR UDXC 45	45	37.35	629	4	8'-6"	NATURAL	2.4	0.06	115 / 1	1, 2, 3, 4

1. PROVIDE DISCONNECT SWITCH, GAS REGULATOR AT UNIT.
2. PROVIDE REMOTE MOUNTED THERMOSTAT.
3. SUPPORT UNIT AS PER MANUFACTURER'S RECOMMENDATIONS.
4. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
5. UNIT TO HAVE TWO STAGE HEATING

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.258.3116
116 W. Main Ave., Suite A, Bismarck ND 58501
www.eapc.net

CLIENT
BISMARCK FIRE DEPARTMENT

PROJECT DESCRIPTION
FIRE STATION 6

CITY BISMARCK
STATE ND

ISSUE DATES

1	ADDENDUM #1	11/06/2026
CD	100% CONSTRUCTION DOCUMENTS	10/29/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20253510
DRAWN BY: SR
CHECKED BY: AB

COPYRIGHT:
All plans, specifications, computer files, field data, notes and other documents and instruments prepared by EAPC as instruments of service shall remain the property of EAPC. EAPC shall retain all common law, statutory and other reserved rights, including the copyright there to.

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 11/06/2026
NORTH DAKOTA

DRAWING TITLE
MECHANICAL SCHEDULES

M802

Revit Version: 2025
Plot Date: 11/6/2026 9:44:43 AM