# MAINE DEPARTMENT OF INLAND FISHERIES AND WILDLIFE STORAGE BARN

# AUGUSTA, MAINE

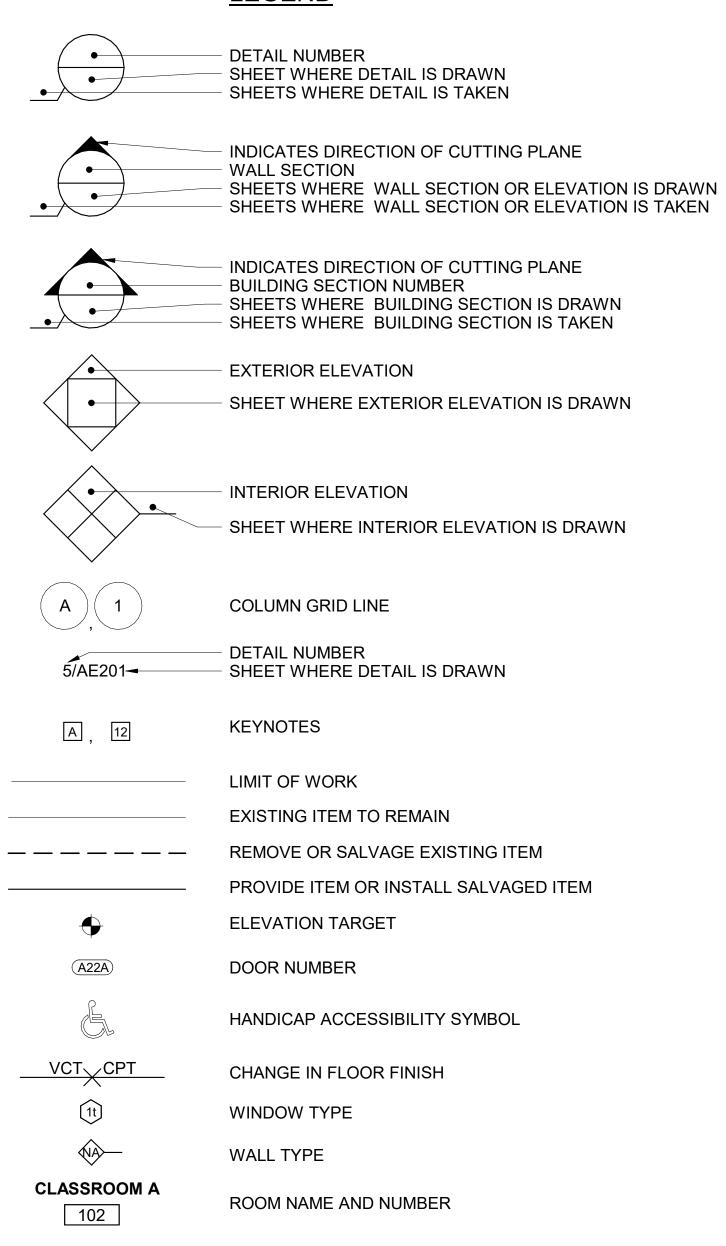


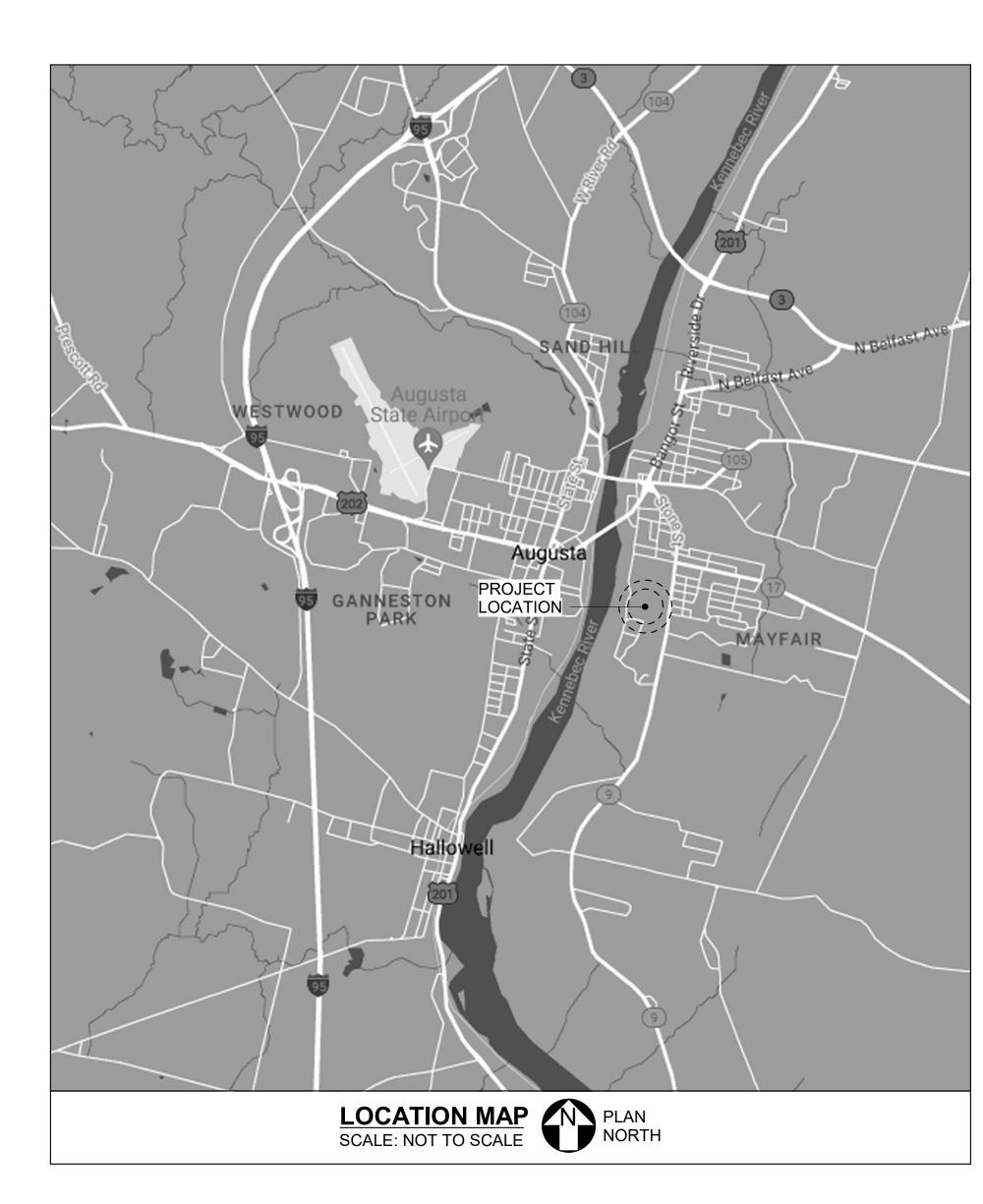
# OAK POINT ASSOCIATES

ARCHITECTURE - ENGINEERING - PLANNING 231 MAIN STREET, BIDDEFORD, MAINE 04005

				CHISED ARCHITECT	DEPARTMENT OF INLAND FISHERIES & WILDLIFE
				B R 582	TITLE STORAGE BARN  LOCATION AUGUSTA, ME
			_	SATE OF NAME	TITLE THIS DWG. COVER SHEET
				DRAWN BY: MJD	DAK DRAWING NO.
				CHECK BY: CET	OAK POINT PAIN G-001
NO.	DATE	DESCRIPTION	BY	NO.	SHEET NO.
		REVISIONS		DATE 01/29/2025	ARCHITECTURE E ENGINEERING PLANNING 231 Main Street, Biddeford, Maine 04005 207.283.0193

#### <u>LEGEND</u>





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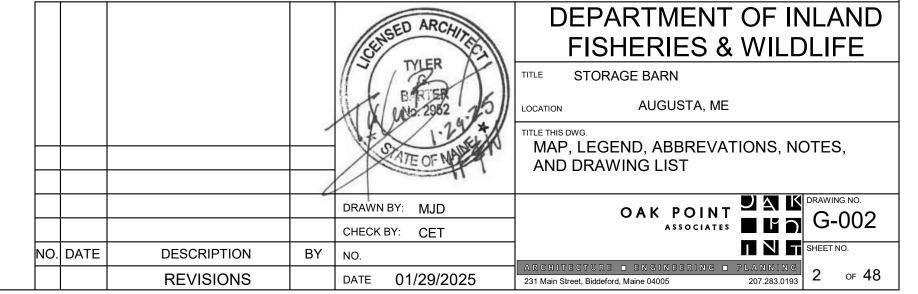
		LIST OF DRAWINGS
NUMBER OF SHEETS	SHEET DESIGNATION	SHEET NAME
GENERAL		
1	G-001	COVER SHEET
2	G-001	MAP, LEGEND, ABBREVATIONS, NOTES, AND DRAWING LIST (NOT INCLUDED IN THIS SUBMISSION)
3	G-101	CODE COMPLIANCE SITE PLAN
4	G-102	CODE COMPLIANCE SUMMARY SHEET
5	G-103	BASEMENT LIFE SAFETY PLAN
6	G-104	FIRST FLOOR LIFE SAFETY PLAN
STRUCTURAL		
7	S-001	STRUCTURAL NOTES
8	S-002	STRUCTURAL DESIGN LOADS AND ABBREVIATIONS
9	SB101	FOUNDATION PLAN
10	SB501	FOUNDATION DETAILS 1
11	SB502	FOUNDATION DETAILS 2
12	SF101	FIRST FLOOR FRAMING PLAN
13	SF102	ROOF FRAMING PLAN
14	SF201	SHEAR WALL ELEVATIONS STRUCTURAL DETAILS 1
15 16	SF501 SF502	STRUCTURAL DETAILS 1 STRUCTURAL DETAILS 2
17	SF601	SHEAR WALL/HEADER LAYOUT PLAN
ADOLUTEOTUDAL		
ARCHITECTURAL	A E 101	ELOOD DI ANG AND WALL TYPES
18 19	AE101 AE120	FLOOR PLANS AND WALL TYPES ROOF PLAN AND DETAILS
20	AE201	BUILDING AXONS
21	AE202	BUILDING ELEVATIONS
22	AE220	BUILDING SECTIONS
23	AE301	WALL SECTIONS
24	AE420	MOUNTING HEIGHTS, RESTROOM ENLARGED PLAN AND INTERIOR ELEVATIONS
25	AE501	TYP ROOF DETAILS, FOUNDATION DETAILS AND SIDING DETAILS
26	AE601	DOOR SCHEDULE, TYPES, AND DETAILS
27	AE602	DOOR DETAILS
28	AE620	WINDOWS SCHEDULE AND DETAILS
29	AE660	SIGNAGE SCHEDULE AND NOTES
30	AE701	REFLECTED CEILING PLANS
31	AE740	INTERIOR ELEVATIONS 1 & ROOM FINISH SCHEDULE
32	AE741	INTERIOR ELEVATIONS 2
FIRE SUPPRESSIO	N	
33	FX001	FIRE SUPRRESSION LEGENDS, ABBREVIATIONS, GENERAL NOTES, AND DETAILS
34	FX101	FIRE SUPPRESSION PLANS
PLUMBING		
35	P-001	PLUMBING LEGEND, ABBREVIATIONS, AND GENERAL NOTES
36	P-101	BASEMENT PLUMBING PLAN
37	P-601	PLUMBING SCHEDULES AND DETAILS
38	P-701	PLUMBING RISER DIAGRAMS (NOT INCLUDED IN THIS SUBMISSION)
MECHANICAL		
39	M-001	MECHANICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES (NOT INCLUDED IN THIS SUBMISSION)
40	MH101	BASEMENT MECHANICAL DUCTWORK PLAN (NOT INCLUDED IN THIS SUBMISSION)
41	MP101	BASEMENT MECHANICAL PIPING PLAN (NOT INCLUDED IN THIS SUBMISSION)
42	M-501	MECHANICAL DETAILS (NOT INCLUDED IN THIS SUBMISSION)
43	M-701	MECHANICAL CONTROL DIAGRAMS (NOT INCLUDED IN THIS SUBMISSION)
ELECTRICAL		
44	E-001	ELECTRICAL SYMBOLS, ABRBEVIATIONS AND GENERAL NOTES
45	EP101	BASEMENT, FIRST FLOOR, AND CUPOLA ELECTRICAL FLOOR PLANS
46	EL101	BASEMENT, FIRST FLOOR, AND CUPOLA LIGHTING PLANS
47	ET101	BASEMENT, FIRST FLOOR, AND CUPOLA TECHNOLOGY FLOOR PLANS
FIRE ALARM		
48	FA101	BASEMENT, FIRST FLOOR, AND CUPOLA FIRE ALARM PLANS

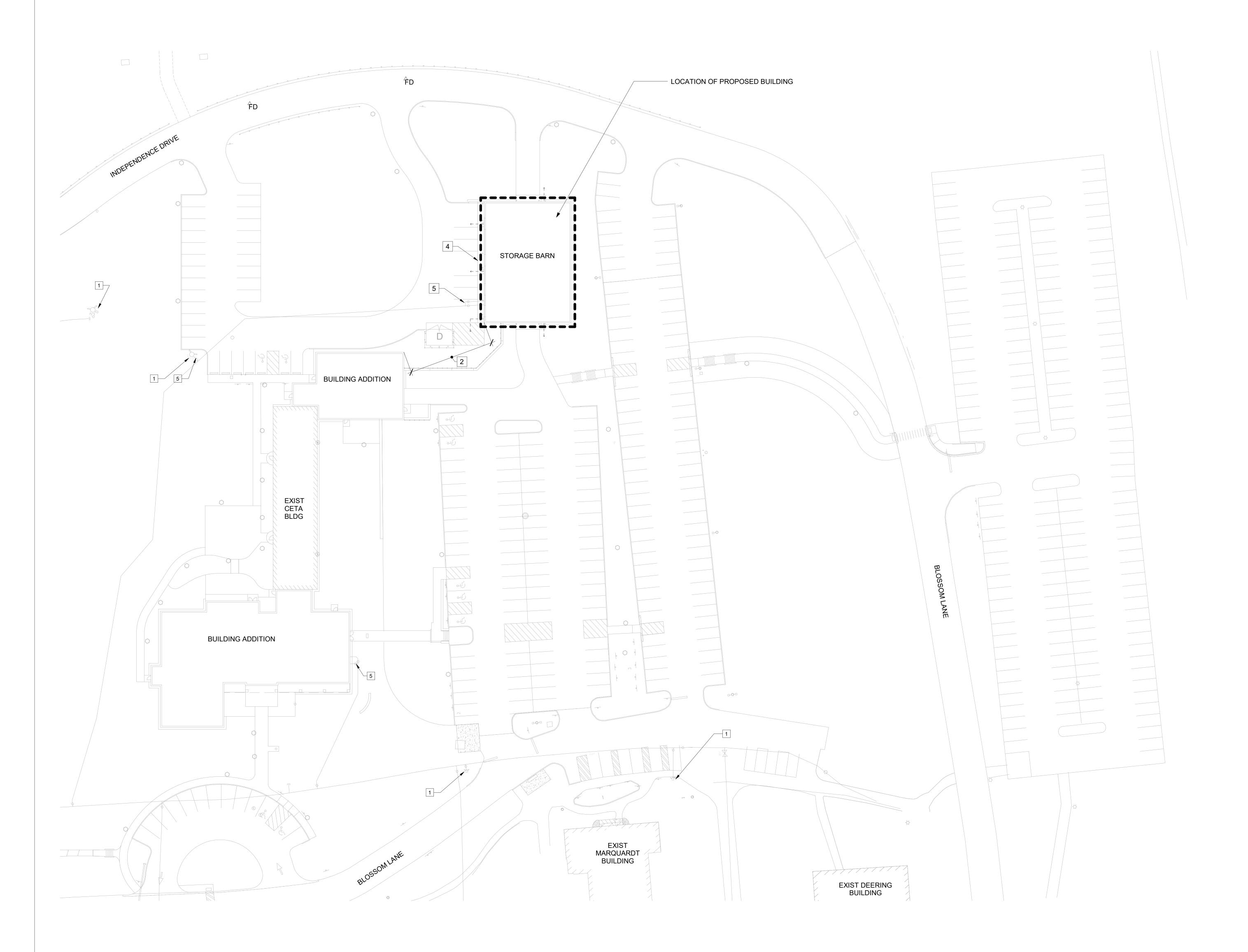
#### **GENERAL CONSTRUCTION NOTES:**

- 1. CONFORM TO APPLICABLE STATE, NATIONAL AND OTHER CODES AND ORDINANCES.
- 2. ITEMS AND COMPONENTS SHOWN ON THE DRAWINGS ARE NEW AND SHALL BE PROVIDED UNLESS NOTED AS EXISTING.
- 3. WORK INDICATED IS INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.
- 4. WORK FROM GIVEN DIMENSIONS AND LARGE SCALE DETAILS. DO NOT SCALE DRAWINGS.
- 5. REPORT ANY DIMENSION DISCREPANCIES TO THE OWNER/ARCHITECT. PROCEED WITH THE AFFECTED WORK ONLY AFTER THE DISCREPANCIES HAVE BEEN RESOLVED.
- 6. MAINTAIN CONSTRUCTION SITE IN A NEAT, CLEAN AND SAFE MANNER.
- 7. OTHER THAN ENVIRONMENTAL PERMITS, OBTAIN STATE AND LOCAL PERMITS REQUIRED FOR THE SATISFACTORY COMPLETION OF WORK AT NO ADDITIONAL COST TO THE OWNER. COMPLY WITH PERMIT APPROVAL CONDITIONS. REFER TO SHEET C-001 FOR A DESCRIPTION OF ENVIRONMENTAL PERMITS.
- 8. DISPOSE OF AND/OR RECYCLE NON-HAZARDOUS CONSTRUCTION DEBRIS FROM THE PROJECT SITE AS REQUIRED BY THE STATE OF MAINE AND AS REQUIRED BY THE CONTRACT. OBTAIN DISPOSAL PERMITS THAT ARE REQUIRED.
- 9. POWDER DRIVEN FASTENERS SHALL BE PROHIBITED FOR SUPPORT OF ARCHITECTURAL, MECHANICAL, OR ELECTRICAL COMPONENTS WHEN LOADED
- 10. OBTAIN APPROVAL FROM THE OWNER FOR SEQUENCE AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK.
- 11. COMPLY WITH INDUSTRY STANDARDS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 12. SEE AE420 FOR STANDARD MOUNTING HEIGHTS.
- 13. THE LOCATION OF ALL DOOR OPENINGS NOT DIMENSIONED SHALL BE 6" FROM ADJACENT WALL (FACE OF FRAMING TO ROUGH OPENING)
- 14. INSTALL BLOCKING BEHIND ALL SURFACE APPLIED FIXTURES, TRIM, GRAB BARS, SHELVES, VISUAL DISPLAY BOARDS, WOOD TRIM AND OTHER ACCESSORIES WHEN MOUNTED ON STUD WALLS
- 15. ALL ROOM DIMENSIONS ARE FROM FACE OF FRAMING TO FACE OF FRAMING. DIMENSIONS INDICATED AS "CLEAR" SHALL BE MAINTAINED IN CASE OF DISCREPANCY.
- 16. WHERE CONFLICTS EXIST WITHIN THE DOCUMENTS OR BETWEEN THE DOCUMENTS AND GOVERNING CODES, ORDINANCES, OR INDUSTRY STANDARDS, THE MORE STRINGENT, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, SHALL APPLY.

#### **ABBREVIATIONS**

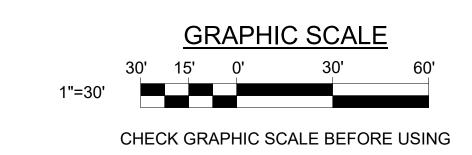
&	AND	LRK	LOCKER
@	AT	LLV	LONG LEG VERTICAL
±	PLUS/MINUS	LS	LIGHT SHELF
%	PERCENT	M, MS	MIDDLE SCHOOL
ACT	ACOUSTIC CEILING TILE	MAX	MAXIMUM
ADA	AMERICAN WITH DISABILITIES ACT	MDEP	MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
ADJ	ADJACENT	MDF	MEDIUM DENSITY FIBER BOARD
ADP	ACOUSTIC DIFFUSER PANEL	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURE
ALUM	ALUMINUM	MFRS	MANUFACTURE'S
ALT	ALTERNATE	MIN	MINIMUM OR MINUTE
	( APPROXIMATE	MIR	MIRROR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL	MTD	MOUNTED
A/V	AIR/VAPOR BARRIER	MTL	METAL
AWP	ACOUSTIC WALL PANEL	N	NORTH
BD	BOARD	NAT	NATURAL
BF	BARRIER FREE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BL	BORROWED LITE	NIC	
			NOT IN CONTRACT
BLDG	BUILDING	NO, #	NUMBER
BOC	BOTTOM OF CURB	NTS	NOT TO SCALE
С	CORE	OC	ON CENTER
СВ	CATCH FOR BASIN	OD	OUTSIDE DIAMETER
CJ	CONTROL JOINT	OPS	OPPOSITE
CL	CENTER LINE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CLG	CEILING	PLAM	PLASTIC LAMINATE
CLR	CLEAR	PLYWD	PLYWOOD
CMP	CENTRAL MAINE POWER	PPM	PARTS PER MILLION
CMU	CONCRETE MASONRY UNIT	PREFAB	PREFABRICATED
COL	COLUMN	PS	PAINT STRUCTURE
COOR	COORDINATE	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PT	PRESSURE TREATED
CONT	CONTINUOUS	PNT	PAINT
CORR	CORRIDOR	PTD	PAINT, PAINTED
COW	COMPUTER ON WHEELS	PVC	POLYVINYL CHLORIDE
CPT	CARPET	QRT	QUARTZ
CT	CERAMIC TILE	QT	QUARTZ TILE
DIA, ø	DIAMETER	R	RADIUS
DIF.	DIFFUSER	RB	RUBBER BASE
DN	DOWN	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	RD	ROOF DRAIN
EA	EACH	REINF	REINFORCED
EJ	EXPANSION JOINT	RM	ROOM
ELEC		S	SCUPPER
	L ELEVATION	SAT	SUSPENDED ACOUSTICAL TILE
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	SC	STORAGE CLOSET
EW		SCFH	STANDARD CUBIC FOOT PER HOUR
EX	EXHAUST	SCH	SCHEDULE
EXIST	EXISTING	SF	SQUARE FOOT
EXP	EXPOSED	SIM	SIMILAR
EXT	EXTERIOR	SQ	SQUARE
EQ	EQUAL	SS	STAINLESS STEEL
F, FIN	FINISH	STL	STEEL
FDN	FOUNDATION		STRUCTURAL
FE	FIRE EXTINGUISHER	SY	SQUARE YARD
FEC	FIRE EXTINGUISHER CABINET	SYS	SYSTEM
FF	FINISH FLOOR	T	TREAD
FFE	FINISH FLOOR ELEVATION	TB	TILE BASE
FND	FOUNDATION	TBD	TO BE DETERMINED
FO	FIBER OPTIC	TBM	TEMPORARY BENCH MARK
FRP	FIBER REINFORCED PLASTIC	TER	TERRACOTTA
FT	FOOT	TFL	THERMAL FUSE LAMINATE
GA	GAGE	T&G	TONGUE & GROOVE
GAL	GALLON	TLCP	TOXICITY CHARACTERISTICS LEACHING PROCEDURE
GALV	GALVANIZED	TOC	TOP OF CURB
GF	GROUND FACE	TOS	TOP OF STEEL
GYP/P	GYPSUM BD / PAINTED	TYP	TYPICAL
H, HS	HIGH SCHOOL	ÜL	UNDERWRITERS LABORATORY
HC	HANDICAP	UON	UNLESS OTHERWISE NOTED
HDWD	HARDWOOD	VERT	VERTICAL
HGT		VERI	VERTICAL VERIFY IN FIELD
	HEIGHT		
HORIZ	HOLLOW METAL	VRT	VENT THRU ROOF
HM	HOLLOW METAL	W/	WITH
HP	HIGH POINT	WB	WARDROBE
HSS	HOLLOW STRUCTURAL SECTION	WD	WOOD
IBC	INTERNATIONAL BUILDING CODE	WP	WALL PANEL
INSUL	INSULATION	WS	WINDOW SHADE
INV	INVERT	WWF	WELDED WIRE FABRIC





1 CODE COMPLIANCE SITE PLAN G-101 SCALE: 1" = 30'-0"

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#### **GENERAL NOTE**

1. FIRE PROTECTION FEATURES OF THE BUILDINGS ARE SHOWN FOR GENERAL INFORMATION ONLY. REFER TO APPLICABLE CIVIL, FIRE SUPPRESSION, AND FIRE ALARM SHEETS FOR ADDITIONAL INFORMATION.

#### KEYNOTES (THIS SHEET ONLY)

1 FIRE HYDRANT

2 65'-0" PHYSICAL SEPARATION BETWEEN BUILDINGS/STRUCTURES

3 INTENDED FIRE DEPARTMENT MAIN ENTRANCE TO BUILDING (TO BE CONFIRMED)

4 SPRINKLER SYSTEM FIRE DEPARTMENT CONNECTION (TO BE LOCATED)

5 WATER SHUTOFF VALVE (TYPE AND LOCATION TO BE DETERMINED)

6 FIRE SERVICE ENTRANCE (TO BE DETERMINED)

#### LEGEND (THIS SHEET ONLY)

EXIT DISCHARGE PATH

FIRE DEPARTMENT POTENTIAL HOSE LAY DOWN PATH (LOCATION TO BE DETERMINED)

FIRE DEPARTMENT ACCESS

FIRE DEPARTMENT CONNECTION (LOCATION TO BE DETERMINED)

FIRE HYDRANT

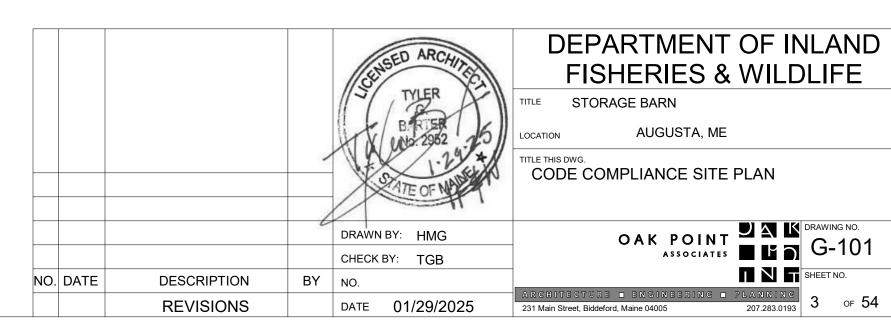
#### ABBREVIATIONS (G-101 TO G-104)

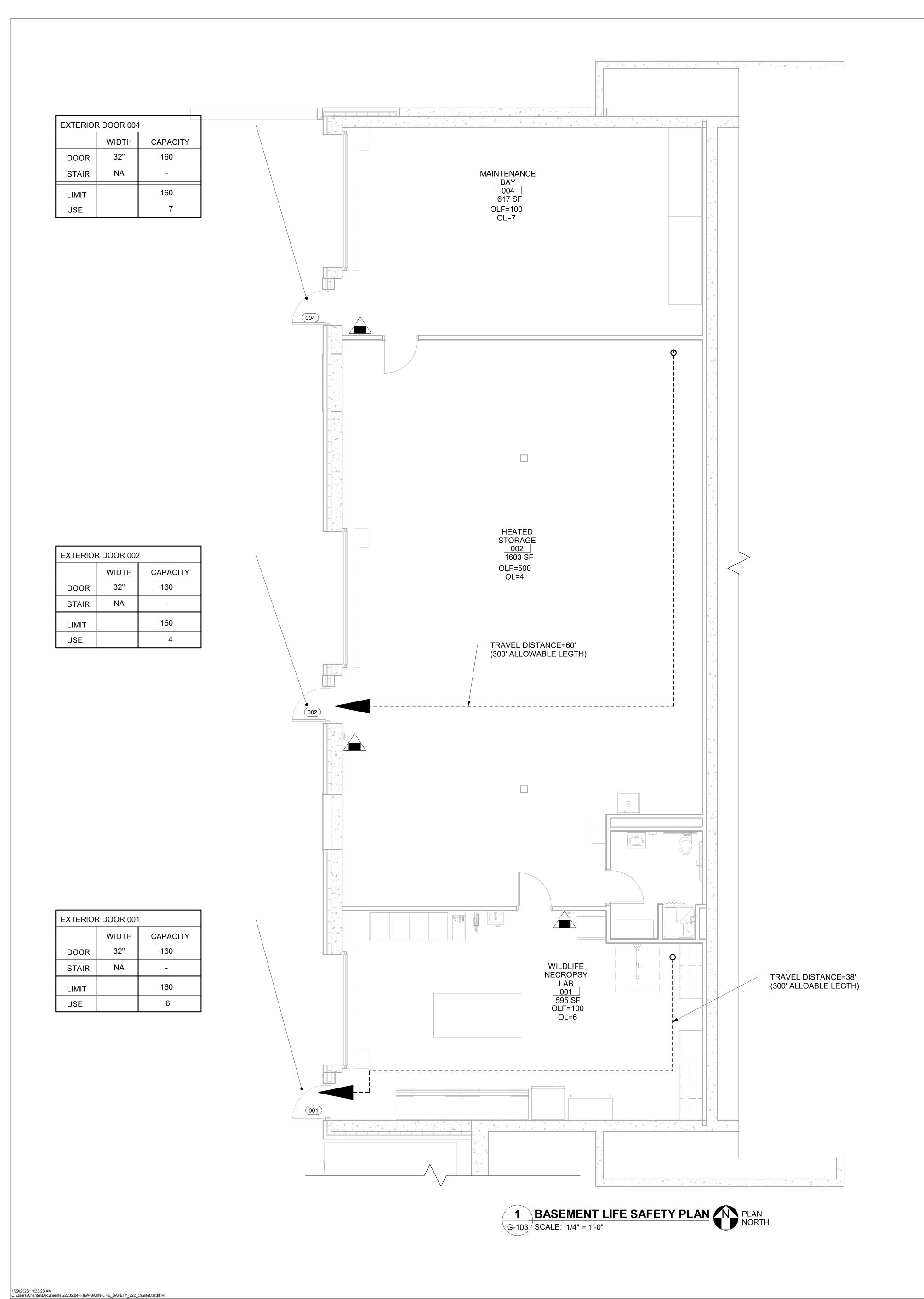
INTERNATIONAL BUILDING CODE EXISTING FRESH WATER

NATIONAL FIRE PROTECTION ASSOCIATION

OCCUPANT LOAD OCCUPANT LOAD FACTOR

POST INDICATING VALVE SQUARE FEET FRESH WATER WATER SHUTOFF VALVE





#### **GENERAL NOTES**

- SEE SHEET G101 FOR FIRE PROTECTION SITE OVERVIEW. SEE SHEETS G-102 AND G-103 FOR LIFE SAFETY AND BUILDING CODE SUMMARY AND FOR CALCULATED OCCUPANT LOAD AND EGRESS CAPACITY TABLES.
- 2. THE FLOOR MUST BE CONSTRUCTED AS A SMOKE BARRIER. PENETRATIONS, VOIDS, JOINTS, AND GAPS OF THE FLOOR ASSEMBLIES MUST BE SEALED TO MAINTAIN THE FLOOR AS A SMOKE BARRIER WITH SMOKE RESISTANT SEALANT, LISTED FOR THE INSTALLED ENVIRONMENT.
- PROVIDE DRAFTSTOPPING AND FIRESTOPPING AS REQUIRED BY NFPA 101 AND IBC.
- 4. BRACKET MOUNT FIRE EXTINGUISHERS. PROVIDE 3-DIMENSIONAL FIRE EXTINGUISHER SIGN(S) ABOVE FIRE EXTINGUISHER(S). LOCATE CENTER OF SIGN AT 66" ABOVE FINISHED FLOORS. PROVIDE RED AND WHITE ARROW SIGN WITH RED TEXT STATING "FIRE EXTINGUISHER".

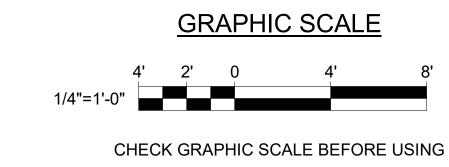
#### EGRESS AND LIFE SAFETY LEGEND

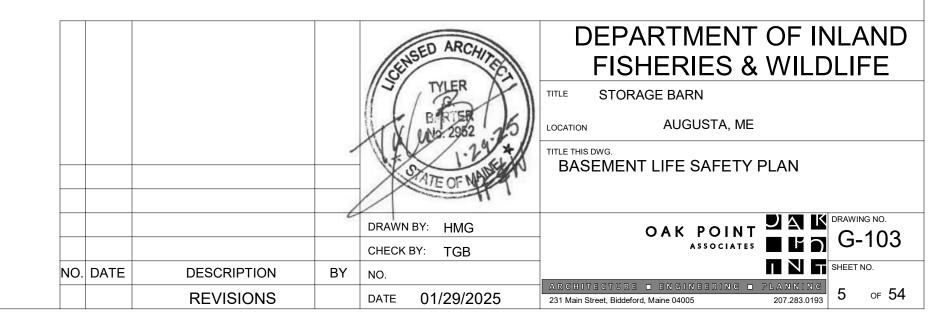
9	TRAVEL PATH
xxx—	EGRESSING OCCUPANTS EN-ROUTE TO EXIT (SOWN FOR CLARITY ONLY)
XXX =	OCCUPANT UTILIZING EXIT
	FIRE ALARM MASS NOTIFICATION CONTROL UNIT
OL	OCCUPANT LOAD
OLF	OCCUPANT LOAD FACTOR
SF	SQUARE FEET
TD	TRAVEL DISTANCE
<b>3</b>	EXIT SIGN
	DRY CHEMICAL HANDHELD FIRE EXTINGUISHER

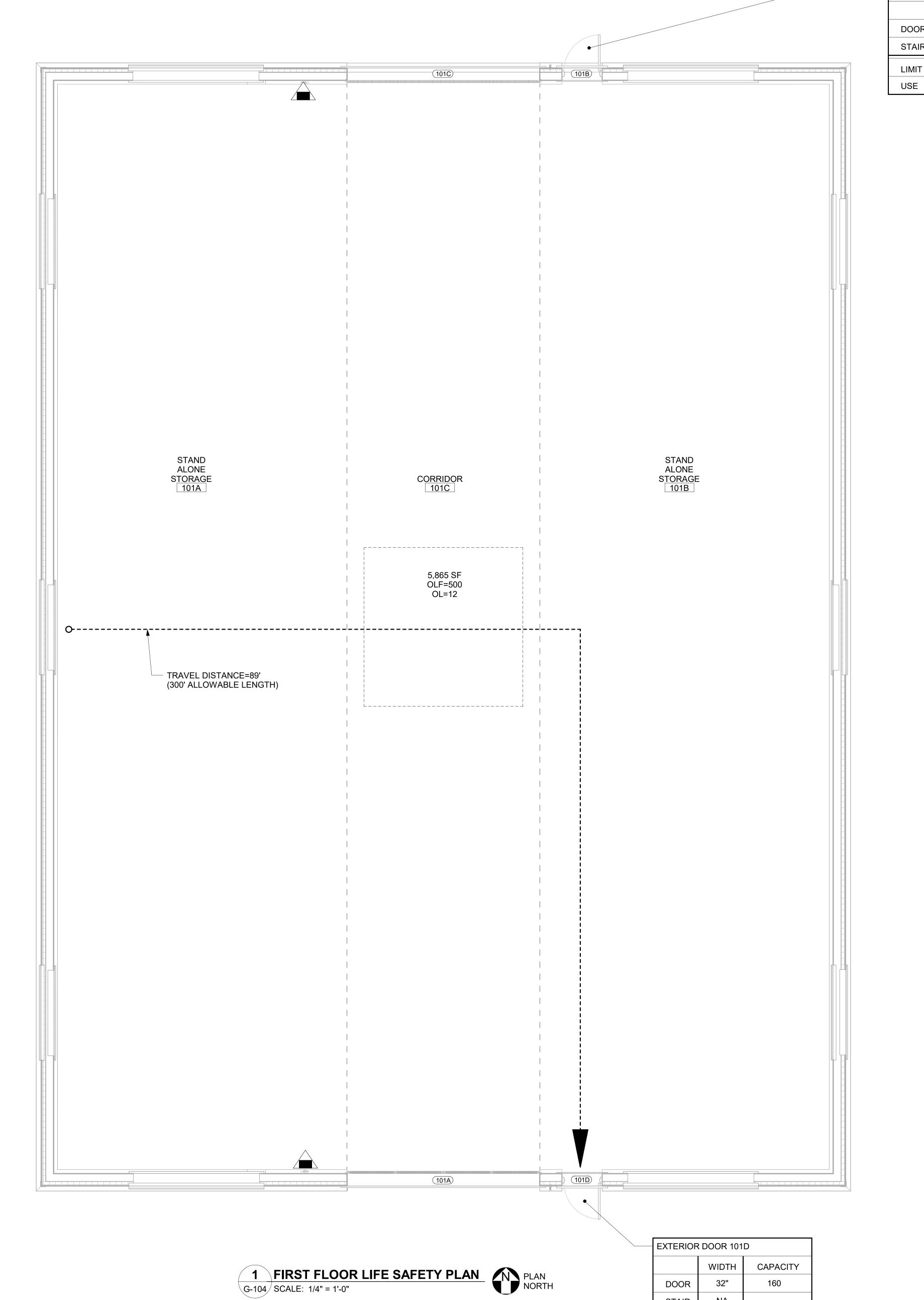
BASEMENT CALCULATED OCCUPANT LOAD		
EXT/MEANS OF EGRESS	LIMITING CAPACITY (PEOPLE)	USE (PEOPLE)
001	160	6
002	160	4
004	160	7
FLOOR TOTAL		17

FIRST FLOOR CALCULATED OCCUPANT LOAD		
EXT/MEANS OF EGRESS	LIMITING CAPACITY (PEOPLE)	USE (PEOPLE)
111	160	6
112	160	6
FLOOR TOTAL		12

BASEMENT TOTAL	17
FIRST FLOOR TOTAL	12
BUILDING TOTAL	<u>29</u>







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STAIR

LIMIT

USE

NA

TERIOR DOOR 101B								
WIDTH CAPACITY								
DOOR	32"	160						
STAIR	NA	•						
_IMIT		160						
10.		6						

#### **GENERAL NOTES**

- SEE SHEET G101 FOR FIRE PROTECTION SITE OVERVIEW. SEE SHEETS G-102 AND G-103 FOR LIFE SAFETY AND BUILDING CODE SUMMARY AND FOR CALCULATED OCCUPANT LOAD AND EGRESS CAPACITY TABLES.
- 2. THE FLOOR MUST BE CONSTRUCTED AS A SMOKE BARRIER. PENETRATIONS, VOIDS, JOINTS, AND GAPS OF THE FLOOR ASSEMBLIES MUST BE SEALED TO MAINTAIN THE FLOOR AS A SMOKE BARRIER WITH SMOKE RESISTANT SEALANT, LISTED FOR THE INSTALLED ENVIRONMENT.
- PROVIDE DRAFTSTOPPING AND FIRESTOPPING AS REQUIRED BY NFPA 101 AND IBC.
- 4. BRACKET MOUNT FIRE EXTINGUISHERS. PROVIDE 3-DIMENSIONAL FIRE EXTINGUISHER SIGN(S) ABOVE FIRE EXTINGUISHER(S). LOCATE CENTER OF SIGN AT 66" ABOVE FINISHED FLOORS. PROVIDE RED AND WHITE ARROW SIGN WITH RED TEXT STATING "FIRE EXTINGUISHER".

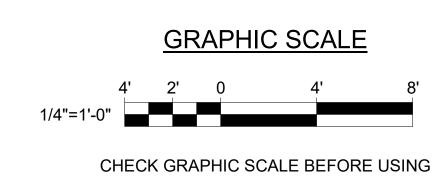
#### EGRESS AND LIFE SAFETY LEGEND

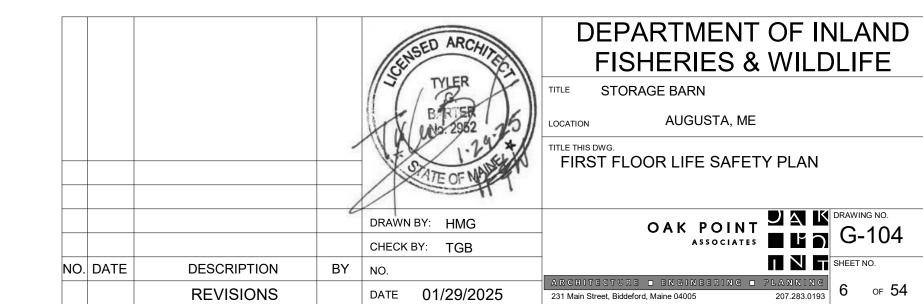
a	TRAVEL PATH
•	HAVEETAIII
XXX——	EGRESSING OCCUPANTS EN-ROUTE TO EXIT (SOWN FOR CLARITY ONLY)
XXX =	OCCUPANT UTILIZING EXIT
	FIRE ALARM MASS NOTIFICATION CONTROL UNIT
OL	OCCUPANT LOAD
OLF	OCCUPANT LOAD FACTOR
SF	SQUARE FEET
TD	TRAVEL DISTANCE
<b>A</b>	EXIT SIGN
	DRY CHEMICAL HANDHELD FIRE EXTINGUISHER

BASEMENT CALCULATED OCCUPANT LOAD			
EXT/MEANS OF EGRESS	LIMITING CAPACITY (PEOPLE)	USE (PEOPLE)	
001	160	6	
002	160	4	
004	160	7	
FLOOR TOTAL		17	

FIRST FLOOR CALCULATED OCCUPANT LOAD			
EXT/MEANS OF EGRESS	LIMITING CAPACITY (PEOPLE)	USE (PEOPLE)	
111	160	6	
112	160	6	
FLOOR TOTAL		12	

BASEMENT TOTAL	17
FIRST FLOOR TOTAL	12
BUILDING TOTAL	<u>29</u>





#### STRUCTURAL NOTES

#### CONCRETE

- CONFORM WITH ACI 117, ACI 201, ACI 211.1, ACI 301, ACI 302.1R, ACI 305R, ACI 306.1, ACI 308.1, ACI 309R, ACI 315, ACI 318, ACI 330 AND ACI 347R.
- 2. CONCRETE EXPOSED TO WEATHER: NORMAL WEIGHT, F'c=5000 PSI WITH A MAXIMUM WATER/CEMENT RATIO=0.40.
  CONCRETE FOR FOOTINGS: NORMAL WEIGHT, F'c=3000 PSI WITH A MAXIMUM WATER/CEMENT RATIO=0.50.
  CONCRETE FOR FOUNDATION WALLS AND PIERS: NORMAL WEIGHT, F'c=5000 PSI WITH A MAXIMUM WATER/CEMENT RATIO=0.40.
  CONCRETE FOR SLABS-ON-GROUND AND CONCRETE BEAMS: NORMAL WEIGHT, F'c=4000 PSI WITH A MAXIMUM WATER/CEMENT RATIO=0.45.
  CONCRETE FOR COMPOSITE SLABS: NORMAL WEIGHT, F'c=4000 PSI WITH A MAXIMUM WATER/CEMENT RATIO=0.50.
- 3. COMPACT THE STRUCTURAL FILL BENEATH ISOLATED AND SPREAD FOOTINGS WITH A VIBRATING PLATE COMPACTOR AND PRIOR TO CONCRETE REINFORCEMENT PLACEMENT.
- 4. DEFORMED REINFORCING BARS: ASTM A615/A615M (GRADE 60).
- 5. WELDED WIRE FABRIC: ASTM A185 (EPOXY COATED AS INDICATED).
- LAP SPLICE CONCRETE REINFORCEMENT IN ACCORDANCE WITH ACI 301/ACI 318. LAP BARS AS INDICATED IN THE LAP SPLICE SCHEDULE ON SHEET S-001. WELDING OF STEEL REINFORCEMENT IS NOT PERMITTED.
- 7. MINIMUM REINFORCING STEEL COVER: FOOTINGS 3", WALLS AND PIERS 2", ELEVATED SLABS 3/4", UNLESS INDICATED OTHERWISE.
- 8. SUPPORT STEEL REINFORCEMENT AND WELDED WIRE FABRIC BY APPROVED MATERIALS.
- 9. CURE ELEVATED SLABS BY MOIST CURING ONLY.
- 10. CURE CONCRETE AS SPECIFIED. CONCRETE NOT CURED WILL NOT BE ACCEPTED.
- 11. NONSHRINK GROUT: ASTM C1107. NONMETALLIC.
- 12. EPOXY GROUT: ASTM C881, TYPE IV OR V.
- 13. EPOXY ADHESIVE: ASTM C881
- 14. CONCRETE SLAB FINISH:

FLOOR FLATNESS AND LEVELNESS							
SLAB LOCATION	OVERAL	L VALUE	MIN LOCAL VALUE				
SLAB ECCATION	F	F <sub>_</sub>	F <sub>F</sub>	F			
SLAB ON GRADE	35	25	24	17			

- 15. PERFORM FLATNESS/LEVELNESS TESTS WITHIN 48 HOURS OF CONCRETE PLACEMENT. SUBMIT TEST RESULTS TO THE STRUCTURAL ENGINEER OF RECORD AND OWNER WITHIN 24 HOURS OF TEST COMPLETION.
- 16. INTERIOR SLABS-ON-GROUND: PROVIDE CONCRETE SLAB PROTECTION (BEYOND THE 7-DAY CURING PERIOD) UNTIL THE BUILDING ENVELOPE COMPLETELY ENCLOSES AND PROTECTS THE SLAB FROM WIND, SUN AND PRECIPITATION.
- 17. TAPE AND SEAL JOINTS IN VAPOR RETARDER AT EDGES AND UTILITY PENETRATIONS. SEAL VAPOR RETARDER TO CONCRETE AT EDGES.
- 18. SECURE ANCHOR RODS IN PLACE PRIOR TO PLACING CONCRETE. INCORRECTLY LOCATED OR OUT-OF-PLUMB ANCHORS SHALL BE REPLACED AT NO COST TO THE OWNER. REPLACEMENT METHODS SHALL BE AS DIRECTED BY THE OWNER.
- 19. COORDINATE FOUNDATION WORK WITH SOIL AND SOIL EXPLORATION NOTES ON SHEET C-001.
- 20. COORDINATE SLAB FINISH REQUIRED FOR FLOORING TESTING AND INSTALLATION WITH FLOORING MANUFACTURER.
- 21. SLEEVES: AT SLEEVES LESS THAN 12" DIAMETER, NO ADDITIONAL REINFORCING REQUIRED. AT SLEEVES GREATER THAN 12", PROVIDE (2) #5'S HORIZONTAL OVER OPENING, EXTEND 1'-0" PAST OPENING ON EACH SIDE.
  BOND OUTS: AT RECTANGULAR BOND OUTS UP TO 9'-0" WIDE, PROVIDE (2) #5'S HORIZONTAL OVER OPENING, EXTEND 1'-0" PAST OPENING ON EACH SIDE AND (2) #5'S, 1'-0" LONG, CORNER BARS AT A 45 DEGREE ANGLE AT EACH CORNER OF BOND OUT ON EACH FACE OF FOUNDATION WALL.
- 22. PROVIDE TEMPORARY BRACING OF RETAINING WALLS PRIOR TO INSTALLATION OF ELEVATED FLOOR STRUCTURE. TEMPORARY BRACING MUST REMAIN IN PLACE UNTIL STEEL BEAMS AND COMPOSITE DECK HAVE BEEN INSTALLED. DESIGN TEMPORARY SHORING FOR AT REST SOIL PRESSURE. SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF

#### STRUCTURAL STEEL

- CONFORM WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "MANUAL OF STEEL CONSTRUCTION FIFTEENTH EDITION".
- 2. STEEL FOR ROLLED SECTIONS: ASTM A992/A992M (Fy=50 KSI).
  STEEL FOR CONNECTIONS, ANGLES AND PLATES: ASTM A36 (Fy=36 KSI).
  RECTANGULAR HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C, (Fy=50 KSI).
  ROUND HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C, (Fy=46 KSI).
- 3. ANCHOR RODS: ASTM F1554, GRADE 36 (Fy=36 KSI). NUTS: ASTM A563, GRADE A. WASHERS: ASTM F436, TYPE 1.
- 4. STRUCTURAL BOLTS: ASTM A325/A325M N, TYPE 1 OR ASTM F1852, TYPE 1, TENSION CONTROL. WASHERS: ASTM F436M. NUTS: ASTM A563M.
- 5. WELDING: AWS D1.1 AND AWS D1.3, E70 ELECTRODE.
- 6. GRIND EXPOSED WELDS SMOOTH.
- 7. FULLY TENSION BOLTS.
- 8. COORDINATE TESTING AND INSPECTION OF FIELD-BOLTED CONNECTIONS ACCORDING TO RCSC'S "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- 9. SUBMIT INSPECTION REPORTS TO THE OWNER WITHIN 48 HOURS OF COMPLETION OF INSPECTION. SUBMIT WELDING INSPECTION REPORTS TO THE OWNER WITHIN 48 HOURS OF COMPLETION.

#### **COLD-FORMED STEEL**

- 1. COLD-FORMED METAL FRAMING: GALVANIZED STEEL ASTM A653/A653M, GRADE 33 FOR TRACKS (Fy=33 KSI) G90 COATING. GRADE 50 FOR STUDS: (Fy=50 KSI) G90 COATING.
- PNEUMATIC FASTENING OF COLD-FORMED FRAMING IS NOT PERMITTED.
- 3. SECTION PROPERTIES FOR WALL STUDS, TRACKS, HEADERS, AND SOFFIT FRAMING SHALL BE AS REQUIRED BY STRUCTURAL PERFORMANCE.
- 4. DESIGN COLD-FORMED STEEL CONNECTIONS IN ACCORDANCE WITH THE LATEST REVISION OF AISI'S "DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", FOR THE REACTIONS REQUIRED.
- 5. LIMIT MAXIMUM PERMITTED DEFLECTION OF WALL FRAMING TO L/360.
- 6. PREPARE DESIGN CALCULATIONS AND SHOP DRAWINGS BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MAINE AND SUBMIT FOR REVIEW PRIOR TO CONSTRUCTION OF FRAMING.

#### STEEL DECK

- STEEL DECKS: AISI SG03-3 AND STEEL DECK INSTITUTE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS". DECK UNITS ASTM A653/A653 SQ, GRADE 40, COATING G90 FOR ASTM A653/A653M. FASTEN FLOOR DECK WITH 3/4" WELDS ON A 36/4 PATTERN WITH (3) 5/8" WELDS PER SPAN (STITCH CONNECTION). FASTEN ROOF DECK AS INDICATED ON DIAPHRAGM PLAN.
- STEEL COMPOSITE DECK = NON-CELLULAR, GRADE 40.

  MINIMUM DEPTH = 2" (MINIMUM DESIGN THICKNESS: 0.0418 IN (19 GAUGE))

  MINIMUM SECTION MODULUS = Sx = 0.413 IN  $^3$ MINIMUM MOMENT OF INERTIA = Ix = 0.455 IN  $^4$
- PROVIDE CONCRETE POUR STOPS/CLOSURE ANGLES AT EDGES OF SLABS AS REQUIRED.

#### POST INSTALLED ANCHORS

- INSTALL POST INSTALLED ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. BASIS OF DESIGN ARE HILTI PRODUCTS.
- 5/8" DIAMETER ANCHORS/EXPANSION BOLTS SHALL HAVE THE FOLLOWING MINIMUM ULTIMATE STRENGTH:

   a. SHEAR = 14,725 LBS.
   b. TENSION = 6,835 LBS.
- 3. ADHESIVE ANCHORS: HILTI HY-200 A V36 ADHESIVE. RODS = 5/8" DIAMETER

#### WOOD

- 1. WOOD FRAMING AND FASTENERS TO BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AND THE AMERICAN FOREST AND PAPER ASSOCIATION NATIONAL DESIGN SPECIFICATION (2018)(AFPA NDS)
- 2. EACH PIECE OF LUMBER MUST BE "S-DRY" AND BEAR THE GRADE STAMP OF A GRADING RULES AGENCY APPROVED BY THE PS-20 "AMERICAN SOFTWOOD LUMBER STANDARDS COMMITTEE".
- 3. MINIMUM STRUCTURAL PROPERTIES OF WOOD FRAMING ARE AS FOLLOWS: ROOF PLANKS:
- DOUGLAS-FIR LARCH NO. 2 OR BETTER WITH MINIMUM DESIGN VALUES: Fb=875 PSI, Fv=170 PSI, Ft=425 PSI, Fc $_{\rm II}$ =600 PSI AND E=1,300,00 PSI. WALL STUD FRAMING AND HEADERS: SPRUCE-PINE-FIR NO. 2 OR BETTER WITH MINIMUM DESIGN VALUES: Fb=875 PSI, Fv=135 PSI, Ft=450 PSI, Fc $_{\rm II}$ =1,150 PSI AND E=1,400,00 PSI.
- 4. MINIMUM ALLOWABLE STRESSES OF STRUCTURAL ENGINEERED LUMBER ARE AS FOLLOWS. SUBMIT PRODUCT DATA TO OWNER PRIOR TO INSTALLATION.
- LAMINATED VENEER LUMBER (LVL)

  BENDING Fb = 3,100 PSI

  SHEAR Fv = 285 PSI

  TENSION Ft = 2,150 PSI

  COMPRESSION (PERPENDICULAR TO GRAIN) Fc<sub>1</sub>= 750 PSI

  COMPRESSION (PARALLEL TO GRAIN) Fc<sub>11</sub>= 3,000 PSI

  MODULUS OF ELASTICITY E = 2,000,000 PSI
- 5. ROOF SHEATHING IS DESIGNED TO ACT AS A ROOF DIAPHRAGM. LAY SHEATHING WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS. NAIL AT PANEL EDGES WITH 10d NAILS AT 6" ON-CENTER AND 12" ON-CENTER AT OTHER LOCATIONS UNLESS NOTED OTHERWISE.
- 6. PROVIDE NAILING (OTHER THAN SHEAR WALLS AND ROOF DIAPHRAGM) IN ACCORDANCE WITH TABLE 2304.9.1 OF THE 2015 INTERNATIONAL BUILDING CODE UNLESS NOTED OTHERWISE.
- CONNECTION HARDWARE TO HAVE MINIMUM ALLOWABLE CAPACITIES AS INDICATED. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. DESIGN BASED ON SIMPSON STRONG TIE PRODUCTS. ALTERNATE DESIGNS THAT MEET OR EXCEED THE REQUIRED DESIGN CAPACITIES ARE PERMITTED.
- 8. BOLT HEADS AND NUTS BEARING ON WOOD TO HAVE STANDARD CUT WASHERS. DRILL BOLT HOLES 1/32-INCH IN DIAMETER LARGER THAN BOLT DIAMETER.
- ANCHOR SILL PLATES TO CONCRETE FOUNDATION WALLS WITH 5/8" DIAMETER x 9" EMBEDMENT HEADED ANCHOR RODS SPACED 2'-8" ON-CENTER MAXIMUM AND LOCATED WITHIN 1'-0" OF A WALL CORNER OR DOOR OPENING. ANCHOR SILL PLATES TO WOOD FLOOR FRAMING WITH (2) 16d NAILS AT 1'-4" ON-CENTER.

#### STRUCTURAL ROUND TIMBER

- BASIS OF DESIGN MANUFACTURER: WHOLE TREES INCORPORATED.
- 2. DESIGN TRUSSES FOR THE DESIGN LOADS INDICATED ON SHEET S-002.
- 3. DESIGN MUST INCLUDE CONNECTIONS INCLUDING COLUMN BASE PLATE.
- 4. DESIGN CALCULATIONS AND SHOP DRAWINGS MUST BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MAINE.

#### **GENERAL NOTES**

- PROVIDE TEMPORARY SUPPORT OF FRAMING DURING CONSTRUCTION TO PREVENT FAILURE AND DAMAGE.
- 2. COORDINATE THE LOCATION OF CONCRETE AND STEEL MEMBERS WITH ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, FIRE PROTECTION, SECURITY, COMMUNICATIONS, AND ELECTRICAL PLANS AND DETAILS.
- 3. COORDINATE THE REQUIRED TESTS AND INSPECTIONS THAT ARE TO BE COMPLETED AND SUBMITTED PRIOR TO ACCEPTANCE OF COMPLETED WORK. MATERIAL PLACED WITHOUT THE REQUIRED QUALITY CONTROL TESTS OR REQUIRED INSPECTIONS BEING PERFORMED WILL NOT BE ACCEPTED. TESTS AND INSPECTIONS PERFORMED BY OWNER'S INSPECTION/TESTING AGENCY.
- CONSTRUCTION IS SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF IBC 2015. NOTIFY THE OWNER OF IDENTIFIED DEFICIENCIES. NOTIFY THE OWNER AFTER DEFICIENCIES HAVE BEEN CORRECTED.
- 5. NO DEVIATIONS FROM CONTRACT DRAWINGS ARE PERMITTED.
- REFER TO CIVIL DRAWINGS REGARDING INFORMATION AND LIMITATIONS PERTINENT TO SITE SUBSURFACE SOIL CONDITIONS.

## REINFORCED CONCRETE REINFORCING STEEL LAP SPLICE SCHEDULE

BAR SIZE	MINIMUM LAP LENGTH
#4	2'-5"
#5	3'-0"
#6	3'-0"
#7	3'-9"
#8	4'-6"
#9	5'-1"
I	

## NOTES: 1. LAP SPLICE LENGTH SHALL BE AS SHOWN ABOVE UNLESS NOTED OTHERWISE.

2. INCREASE SPLICE LENGTH BY 1.3 FACTOR FOR HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF FRESH CONRETE CAST BELOW.

DEPARTMENT OF INLAND
FISHERIES & WILDLIFE

TITLE STORAGE BARN

LOCATION AUGUSTA, ME

TITLE THIS DWG.
STRUCTURAL NOTES

DRAWN BY: MJC
CHECK BY: DNM

NO. DATE DESCRIPTION BY NO.

231 Main Street, Biddeford, Maine 04005

207.283.0193

DATE 01/29/2025

REVISIONS

PLUS OR MINUS *ĭ*, L ANGLE AMERICAN CONCRETE INSTITUTE ABOVE FINISH FLOOR ALT ALTERNATE ARCHITECTURAL ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDING SOCIETY BOTTOM OF FOOTING ELEVATION BUILDING BRICK/BLOCK SHELF ELEVATION CONTROL JOINT CENTERLINE ĊLG CEILING COL COLUMN CONC CONCRETE CONN CONNECTION CONT CONTINUOUS DIA DIAMETER DWG DRAWING EA EACH ELECTRICAL **ELEVATION** EDGE OF DECK EOD EOS EDGE OF SLAB EQ **EQUAL EQUIPMENT** EQUIP **EXIST EXISTING** EXT **EXTERIOR** F'c CONCRETE COMPRESSIVE STRENGTH FND **FOUNDATION** FTG FOOTING Fy YIELD STRESS GAUGE GALV GALVANIZED GYP BD GYPSUM BOARD HGT HEIGHT HORIZONTAL HOLLOW STRUCTURAL SECTION INTERNATIONAL BUILDING CODE INSULATION KIPS PER SQUARE INCH POUNDS MAX MAXIMUM MECH MECHANICAL MANUFACTURER MIN MINIMUM MASONRY OPENING

#### **STRUCTURAL ABBREVIATIONS:**

ROOF SNOW LOAD (ROOF LIVE LOAD) ASCE 7-10/IBC 2015 AMERICAN IRON AND STEEL INSTITUTE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AMERICAN PLYWOOD ASSOCIATION AMERICAN SOCIETY OF CIVIL ENGINEERS ROOF DEAD LOAD: MAIN ROOF = 30 PSF

MPH MILES PER HOUR MTL METAL NUMBER

#, NO ON CENTER OPNG OPENING

POUNDS PER CUBIC FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH RCSC RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS REINF REINFORCED

REQ'D REQUIRED SIMILAR

STRUCTURAL ROUND TIMBER STL STEEL

TOS TOP OF STEEL TOP OF PIER ELEVATION TOP OF SHELF ELEVATION TWE TOP OF WALL ELEVATION TYP TYPICAL

VERT VERTICAL W/ **WORKING POINT** WWF WELDED WIRE FABRIC

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#### BUILDING DESIGN LOADS (STORAGE BARN)

GROUND SNOW LOAD (Pg) = 70 PSF SNOW EXPOSURE FACTOR (Ce) = 1.0

SNOW LOAD ROOF SLOPE FACTOR (Cs) = 1.0 SNOW LOAD THERMAL FACTOR (Ct) = 1.2 SNOW LOAD IMPORTANCE FACTOR (I) = 1.0

BALANCED ROOF SNOW LOAD (Pf) = 56 PSF SNOW DRIFTING (Pd) = VARIES, SEE SHEET S-003

CUPOLA = ADDITIONAL 30 PSF

FLOOR LIVE LOADS: FIRST FLOOR = 125 PSF

WIND LOAD ASCE 7-10/IBC 2015 BASIC WIND SPEED V<sub>ULT</sub> = 109 MPH BASIC WIND SPEED V<sub>ASD</sub>= 85 MPH WIND RISK CATEGORY = II WIND EXPOSURE = EXPOSURE C BUILDING TYPE = "ENCLOSED"

WIND DESIGN PRESSURE: MAIN WIND FORCE RESISTING SYSTEM = 28 PSF (MAXIMUM PRESSURE) SEE SHEET S-004 FOR WALL PRESSURES AND SHEET S-005 FOR ROOF PRESSURES.

#### SEISMIC DESIGN DATA ASCE 7-10/IBC 2015

SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (Ss) = 0.229 ONE SECOND SPECTRAL RESPONSE ACCELERATION (S<sub>1</sub>) = 0.079 OCCUPANCY CATEGORY = II SEISMIC DESIGN CATEGORY = B

SEISMIC IMPORTANCE FACTOR = 1.00 SITE CLASS = C TOTAL BASE SHEAR = 50 KIPS

#### BASIC STRUCTURAL SYSTEM

**BELOW FLOOR:** ORDINARY REINFORCED CONCRETE SHEAR WALLS RESPONSE MODIFICATION COEFFICIENT (R) = 4.00 DEFLECTION AMPLIFICATION FACTOR (Cd) = 4.00 SYSTEM OVER STRENGTH FACTOR ( $\Omega$  o) = 2.50

ABOVE FLOOR: LIGHT-FRAMED WOOD SHEAR WALLS RESPONSE MODIFICATION COEFFICIENT (R) = 6.50 DEFLECTION AMPLIFICATION FACTOR (Cd) = 4.00 SYSTEM OVER STRENGTH FACTOR ( $\Omega$  o) = 3.00

ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

DESIGN SOIL BEARING PRESSURE = 2,000 PSF

1. SEISMIC LOAD RESISTING SYSTEM CONSISTS OF THE FOLLOWING:

A. VERTICAL ELEMENTS - REINFORCED CONCRETE SHEAR WALLS AND WOOD-FRAMED SHEAR WALLS.

B. HORIZONTAL ELEMENTS - STEEL FORM DECK/CONCRETE FLOOR

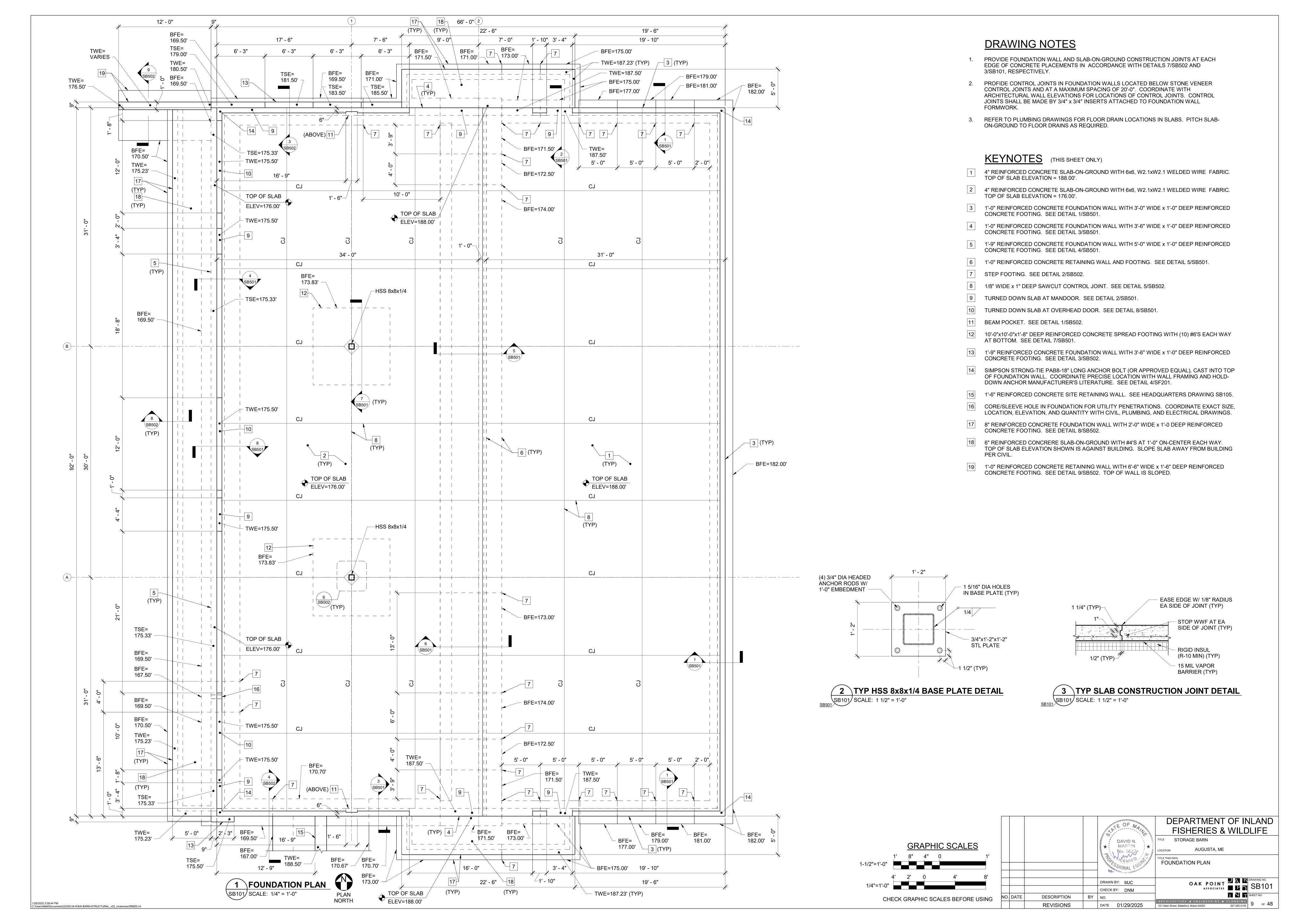
SLAB AND WOOD ROOF DECK ACTING AS A DIAPHRAGM.

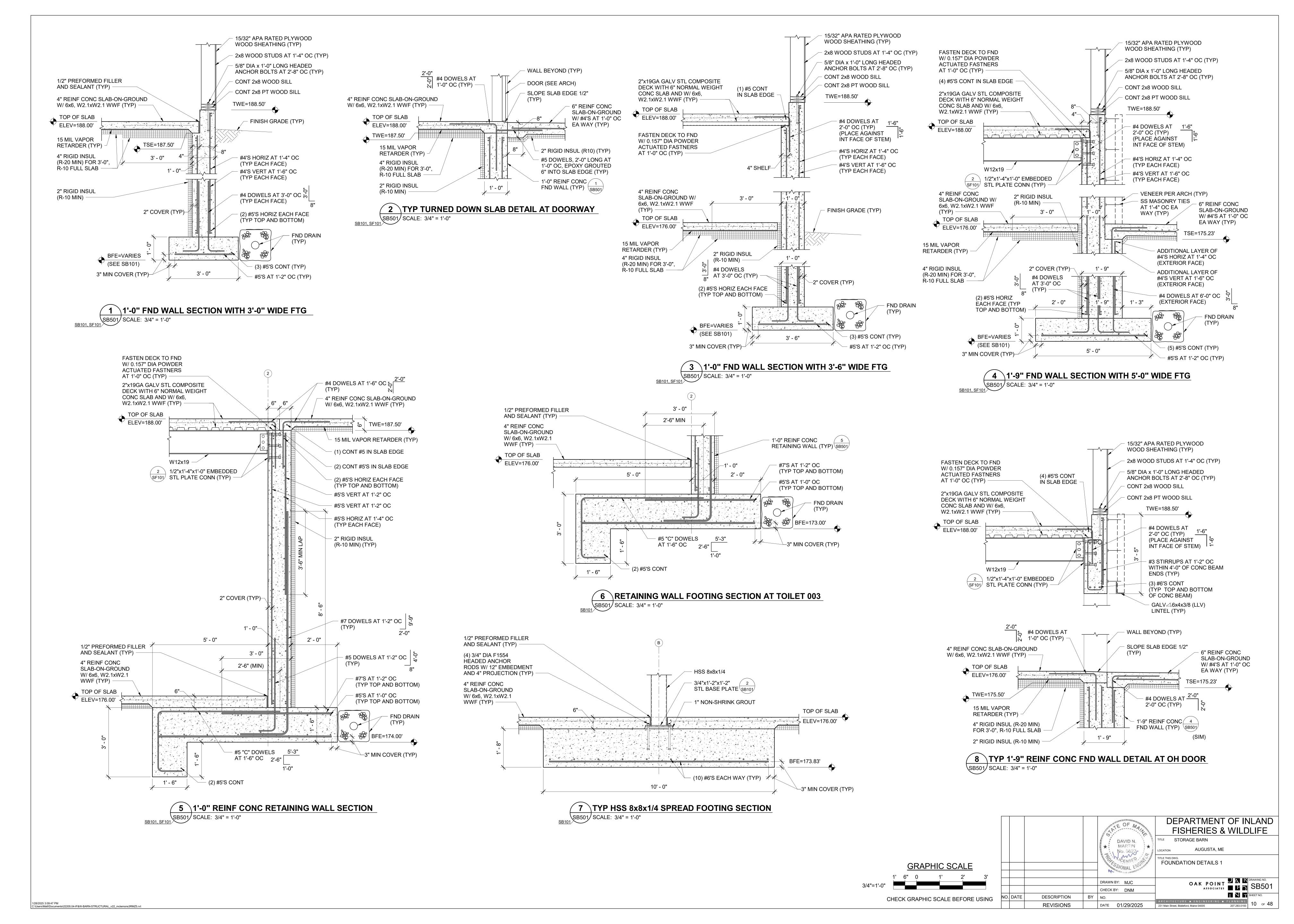
C. COLLECTOR ELEMENTS - BEAMS AND HORIZONTAL WALL PLATES AND BRACES WHERE INDICATED.

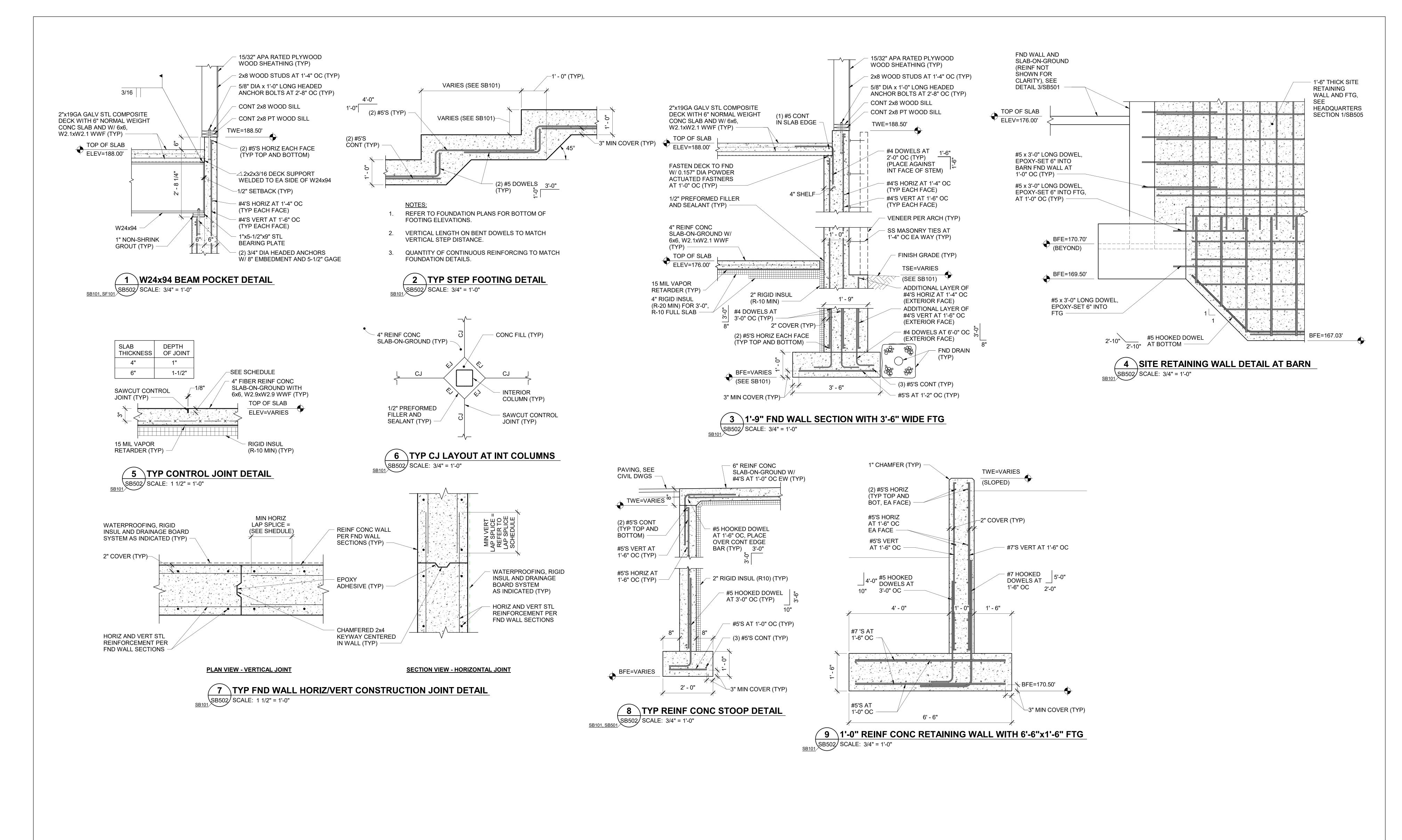
DEPARTMENT OF INLAND FISHERIES & WILDLIFE TITLE STORAGE BARN DAVID N. E★! MARTIN |★ P AUGUSTA, ME STRUCTURAL DESIGN LOADS AND SOONAL E ABBREVIATIONS OAK POINT DAM GRAWING NO.

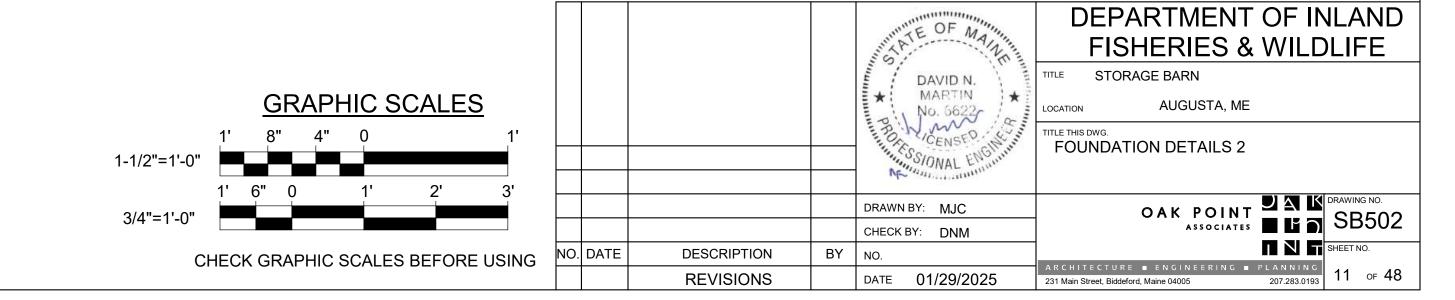
S-002 DRAWN BY: MJC CHECK BY: DNM SHEET NO. NO. DATE DESCRIPTION DATE 01/29/2025 REVISIONS

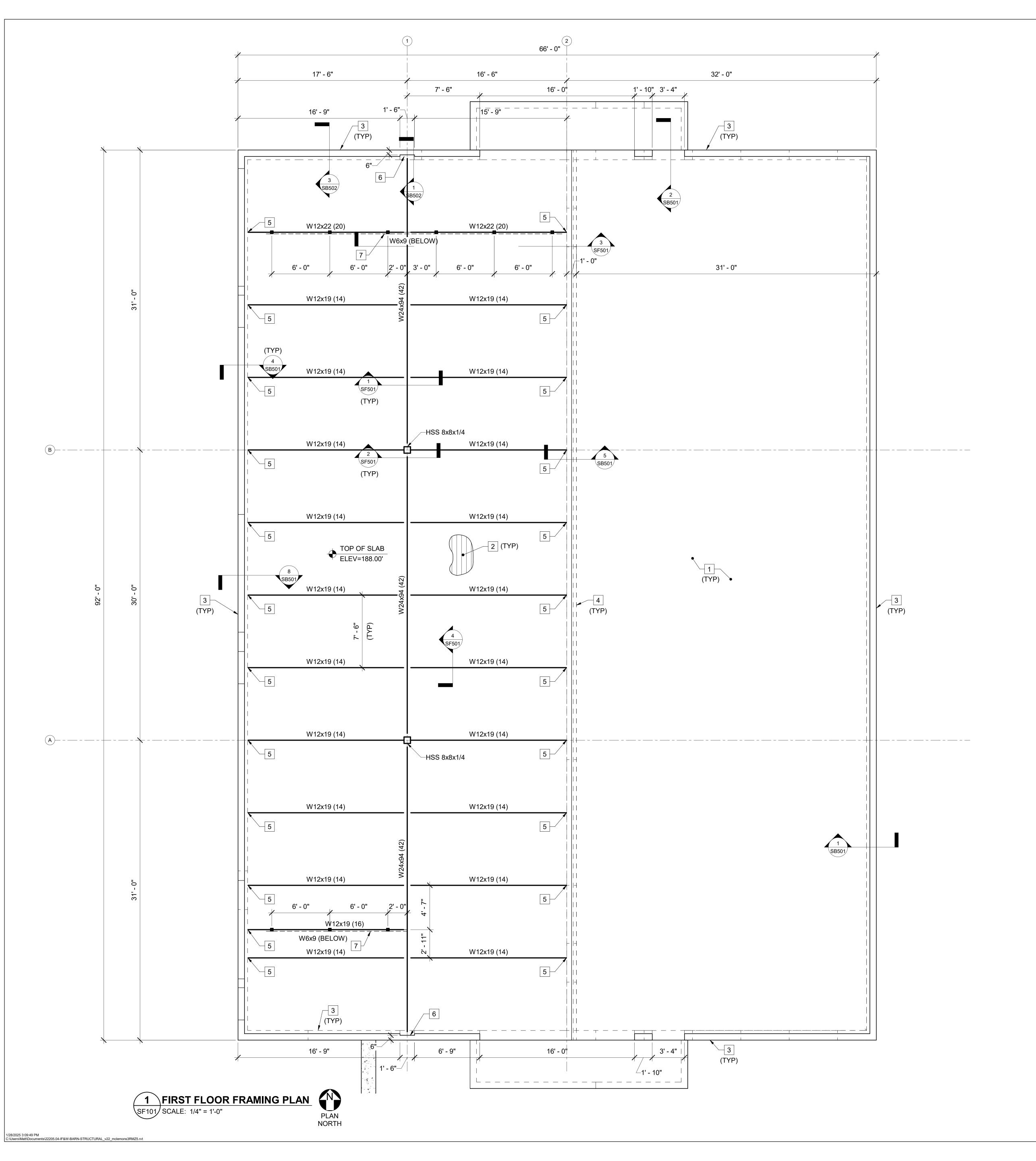
231 Main Street, Biddeford, Maine 04005







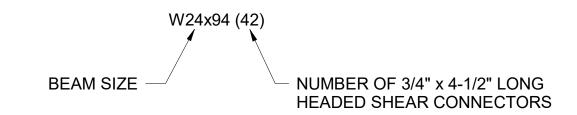




#### DRAWING NOTES

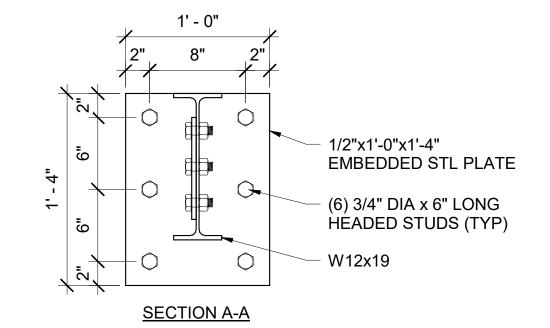
1. TOP OF STEEL ELEVATION = 187.50' UNLESS NOTED OTHERWISE.

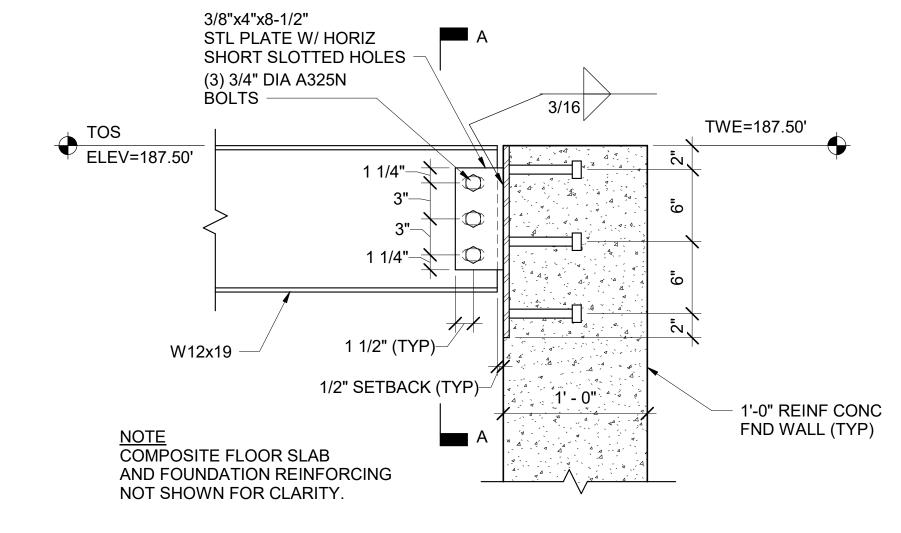
#### COMPOSITE BEAM LEGEND



#### KEYNOTES (THIS SHEET ONLY)

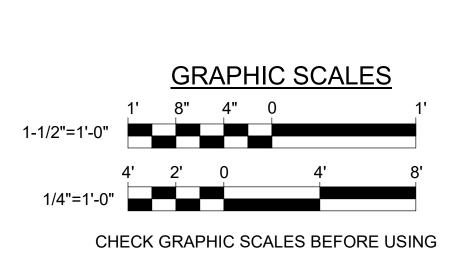
- 4" REINFORCED CONCRETE SLAB-ON-GROUND WITH 6x6, W2.1xW2.1 WELDED WIRE FABRIC. TOP OF SLAB ELEVATION = 188.00'.
- 2"x19GA GALVANIZED COMPOSITE STEEL DECK WITH 6" (TOTAL THICKNESS) NORMAL WEIGHT CONCRETE SLAB AND 6x6, W2.1xW2.1 WELDED WIRE FABRIC. TOP OF SLAB ELEVATION =
- 1'-0" REINFORCED CONCRETE FOUNDATION WALL.
- 1'-0" REINFORCED CONCRETE RETAINING WALL AND FOOTING. SEE DETAIL 5/SB501.
- 5 EMBEDDED STEEL PLATE CONNECTION. SEE DETAIL 2/SF101.
- BEAM POCKET. SEE DETAIL 1/SB502.
- W6x9 CRANE BEAM (BELOW CEILING ELEVATION) SUPPORTED BY HSS 3x3x1/4 HANGERS SPACED 6'-0" ON-CENTER. BEAM DESIGNED FOR A 3,000 POUND MAX CONCENTRATED LOAD. PROVIDE 3" CLEARANCE AT ENDS OF CRANE BEAM TO WALL, OVERHEAD DOOR ASSEMBLY, AND FINISHES.





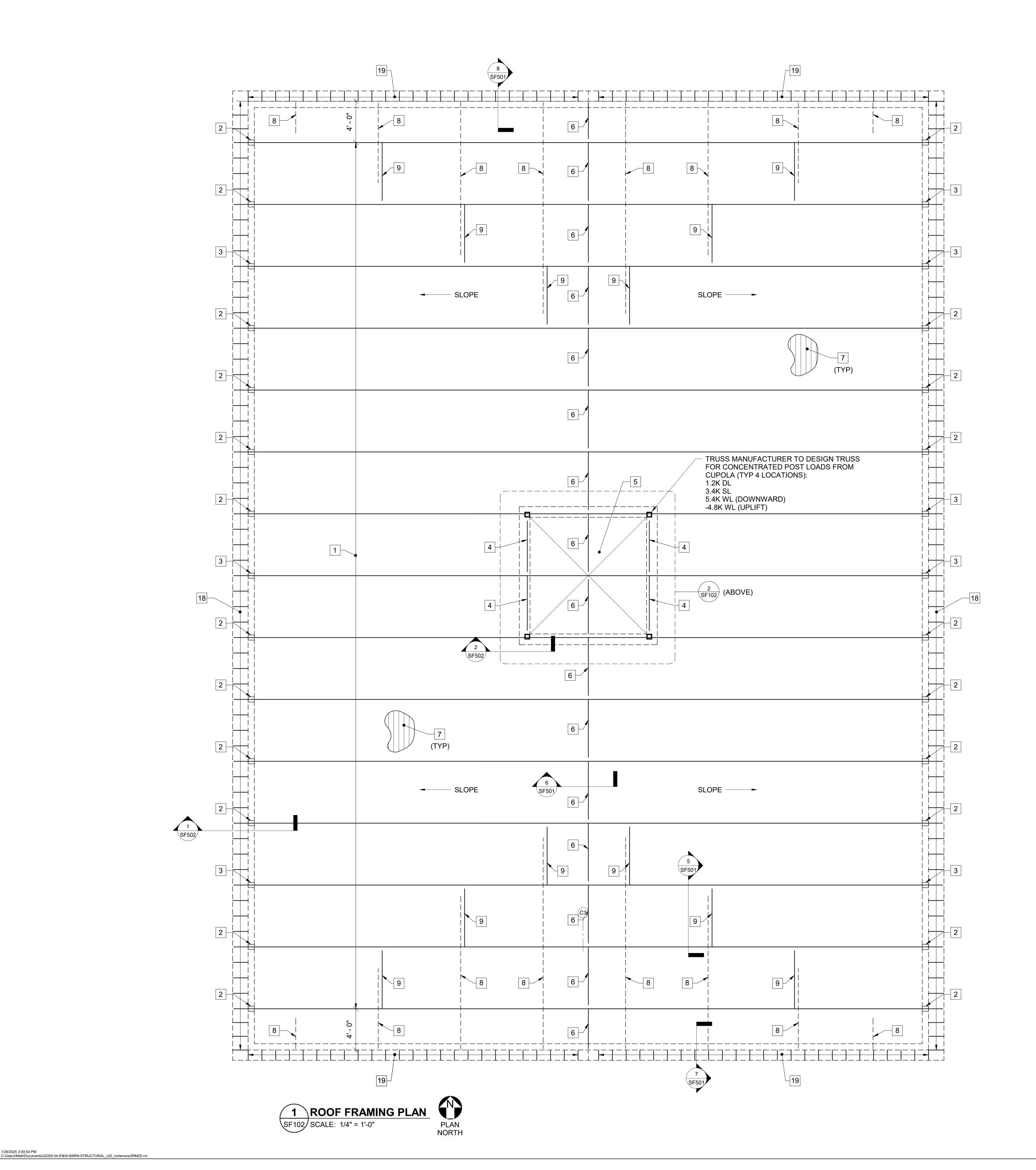
2 W12x19 TO EMBEDDED STL PLATE CONN DETAIL
SF101 SCALE: 1 1/2" = 1'-0"

**REVISIONS** 



				OF MAN	DEPARTMENT OF INLAND
				MAJAMAN AND MAJAMAN	FISHERIES & WILDLIFE
				DAVID N.	TITLE STORAGE BARN
				MARTIN * 1	LOCATION AUGUSTA, ME
				CENSED CHILIT	FIRST FLOOR FRAMING PLAN
				NE MAL COMMING	
				DRAWN BY: MJC	OAK POINT PAR CT101
				CHECK BY: DNM	SF101
NO.	DATE	DESCRIPTION	BY	NO.	SHEET NO.

DATE 01/29/2025



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#### **DRAWING NOTES**

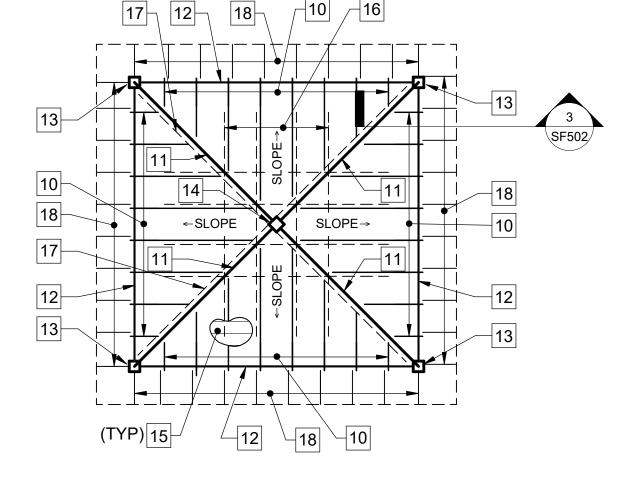
1. EXTERIOR WALLS ARE FRAMED WITH 2x8 WOOD STUDS SPACED 1'-4" ON-CENTER.

#### KEYNOTES (THIS SHEET ONLY)

- ROUND TIMBER TRUSSES SPACED 6'-0" ON-CENTER.
- BUILT-UP (4) 2x8 POST BELOW TRUSS BEARING.
- BUILT-UP (4) 2x8 STUB POST ABOVE HEADER, BELOW TRUSS BEARING.
- 4 ROUND TIMBER BEAM BELOW CUPOLA ABOVE.
- OPENING IN ROOF DECKING AT CUPOLA.
- ROUND TIMBER RIDGE TIE BEAM BETWEEN TRUSSES.
- STRUCTURAL TONGUE AND GROOVE WOOD ROOF DECKING, MINIMUM 2" ACTUAL THICKNESS x 6" WIDE. FASTEN WITH (3) 20d NAILS (MINIMUM 0.148" DIAMETER x 4" LONG) AT EACH SUPPORT, AND (4) NAILS ÀT END SUPPÒRTS. STAGGER JOINTS. 5/8" APA RÁTED PLYWOOD ROOF SHEATHING OVER DECKING WITH 10d NAILS SPACED 6" ON-CENTER ALONG SHEATHING PANEL EDGES AND 12" ON-CENTER IN THE PANEL FIELD. PANELS PERPENDICULAR TO
- ROUND TIMBER DIAGONAL BRACE BETWEEN HORIZONTAL WALL PLATES AND TRUSS TOP CHORD, SPACED 8'-0" ON-CENTER. SLOPE 1:1.
- 6x6 BLOCKING BETWEEN TRUSS TOP CHORDS FOR DIAGONAL WALL BRACE ATTACHMENT. FASTEN ROOF DECKING DIRECTLY TO 6x6 BENEATH WITH (2) 20d NAILS SPACED 10" ON-CENTER ALONG ENTIRE 6x6.
- 2x8 RAFTERS AT 1'-4" ON-CENTER.
- (3) 2x8 HIP.

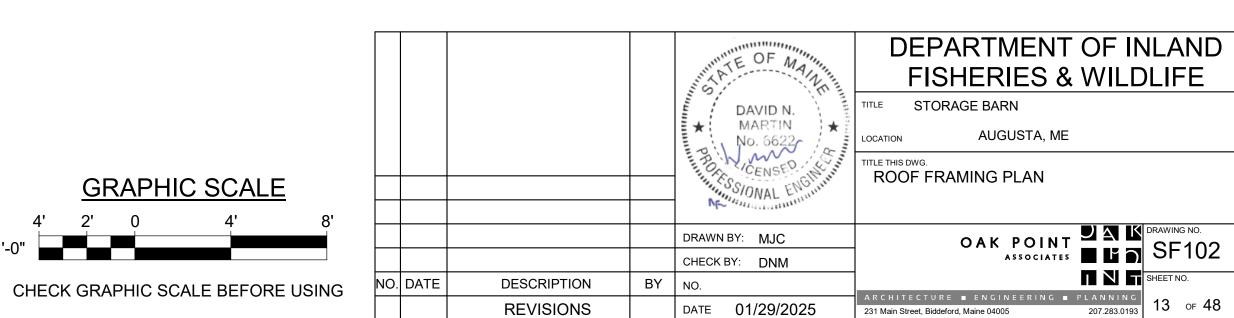
TRUSSES.

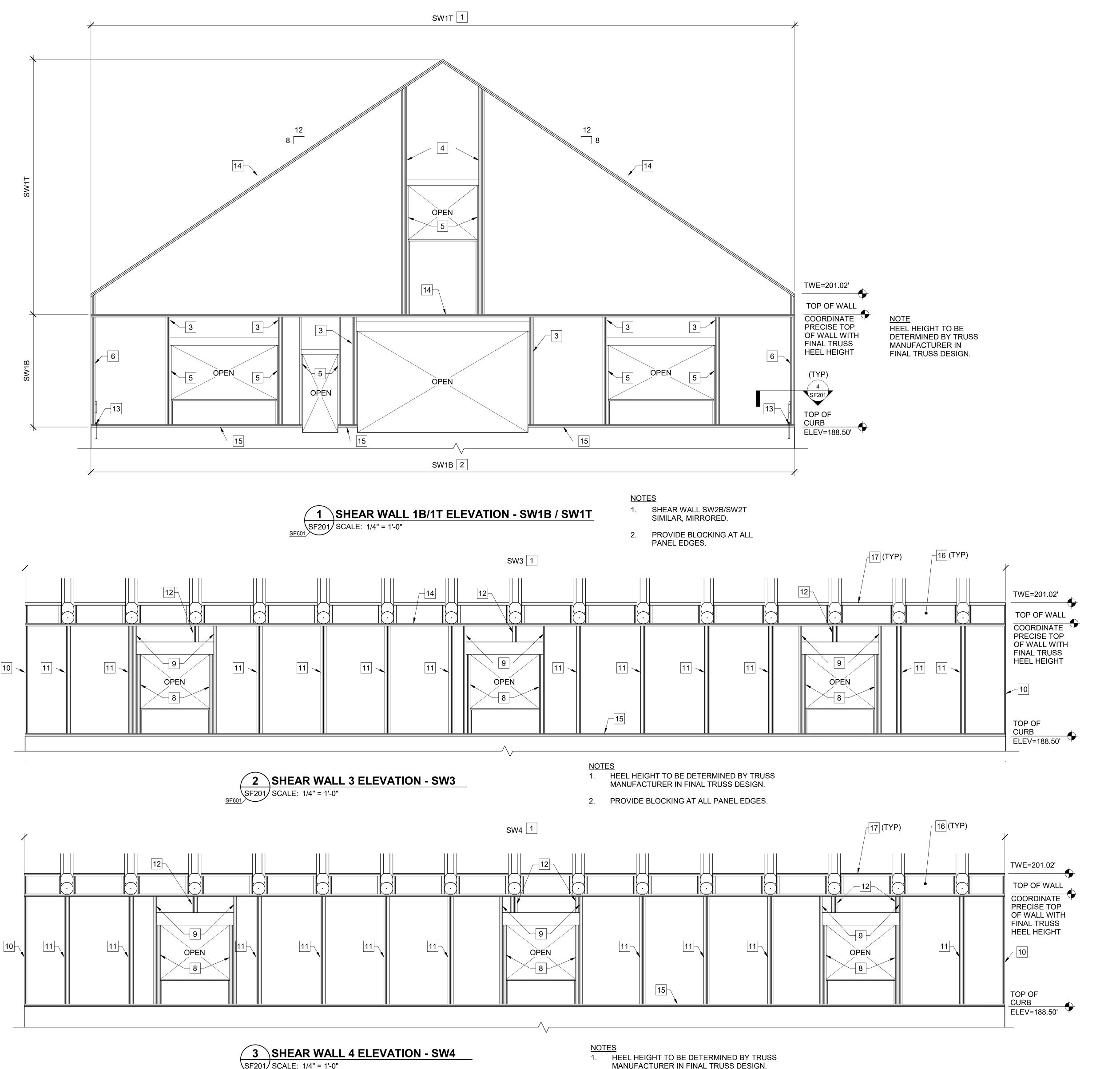
- (3) 1-3/4" x 7-1/4" LVL BEAM.
- 13 5-1/4" x 5-1/4" PSL POST.
- 14 6x6 KING POST.
- 5/8" APA RATED PLYWOOD ROOF SHEATHING WITH LONG EDGE OF PANEL PERPENDICULAR TO RAFTERS (TYPICAL).
- 2x6 CEILING TIE.
- 1" DIAMETER STEEL ROD X-BRACING PLACED DIAGONALLY IN PLAN WITHIN OPEN SPACE OF CUPOLA (TYPICAL).
- 2x4 SOFFIT FRAMING AT 1'-4" ON-CENTER.
- 19 2x4 RAKE FRAMING AT 1'-4" ON-CENTER.





**GRAPHIC SCALE** 





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2. PROVIDE BLOCKING AT ALL PANEL EDGES.

#### **DRAWING NOTES**

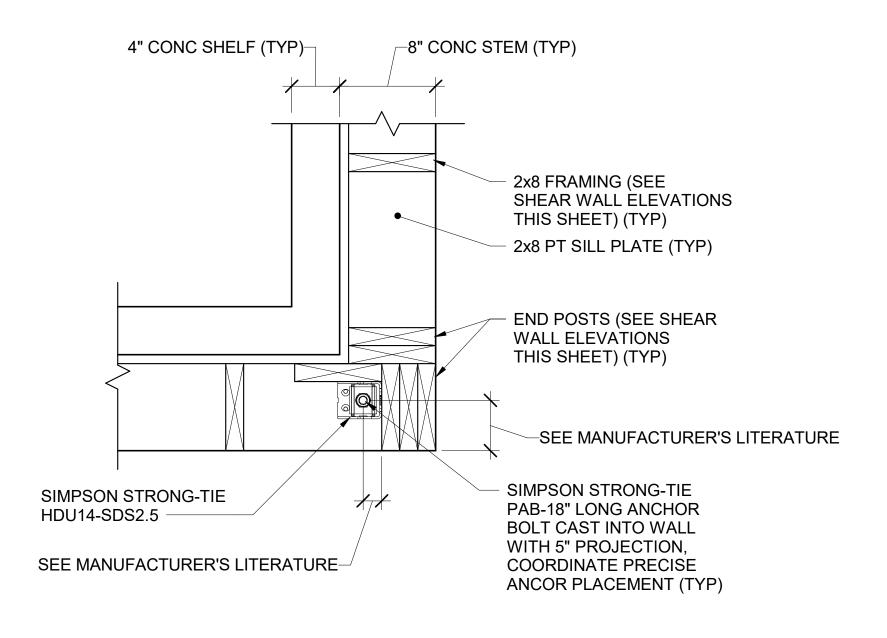
- 1. COORDINATE EXACT LOCATION AND SIZE OF OPENINGS WITH ARCHITECTURAL PLANS.
- 2. SHEAR WALL HOLD-DOWN ANCHOR INSTALLATION TO BE INSPECTED PRIOR TO INSTALLATION OF INTERIOR WALL SHEATHING OR WALL BOARD.
- 3. PROVIDE 2x8 BLOCKING AT SHEATHING PANEL EDGES.
- 4. DOOR/WINDOW HEADERS NOT PRECISELY SHOWN. REFER TO SHEET SF601 FOR LOCATION AND SIZES.
- 5. WALL FRAMING IS 2x8 WOOD STUDS AT 1'-4" ON-CENTER UNLESS NOTED OTHERWISE
- 6. COORDINATE EXACT LOCATIONS OF BUILT UP POSTS BELOW TRUSS BEARING WITH ROOF FRAMING PLAN AND APPROVED ROOF TRUSS SHOP DRAWINGS.

#### KEYNOTES (THIS SHEET ONLY)

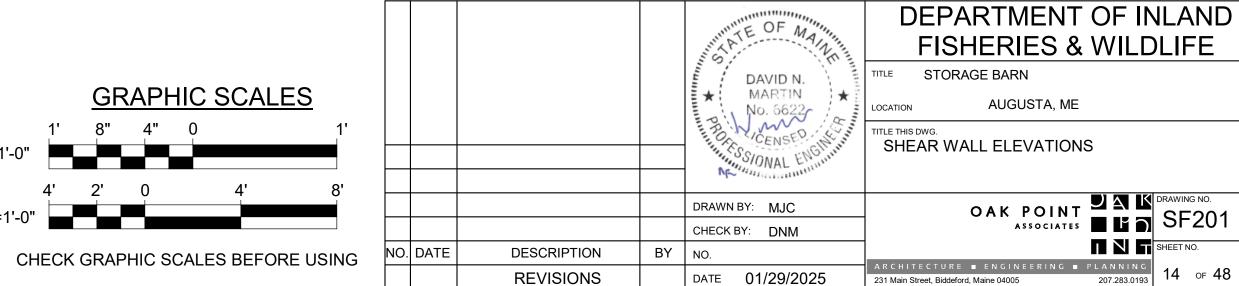
- 15/32" APA RATED PLYWOOD SHEATHING WITH 10d NAILS AT 6" ON-CENTER AT PANEL EDGES AND 1'-0" ON-CENTER ELSEWHERE. SHEATHING LOCATED ON EXTERIOR FACE OF WALL.
- 15/32" APA RATED PLYWOOD SHEATHING WITH 10d NAILS AT 4" ON-CENTER AT PANEL EDGES AND 1'-0" ON-CENTER ELSEWHERE. SHEATHING LOCATED ON BOTH FACES OF WALL.
- 3 CONTINUOUS (3) 2x8 BUILT-UP KING STUD POST.
- 4 CONTINUOUS (4) 2x8 BUILT-UP KING STUD POST.
- 5 2x8 JACK STUD UNDER HEADER.
- CONTINUOUS (3) 2x8 BUILT-UP POST.
- 7 NOT USED.
- 8 (3) 2x8 JACK STUDS UNDER HEADER.
- CONTINUOUS (2) 2x8 BUILT-UP KING STUD POST.
- CONTINUOUS (2) 2x8 BUILT-UP POST.
- 11 CONTINUOUS (4) 2x8 BUILT-UP POST BELOW TRUSS BEARING.
- (4) 2x8 BUILT-UP STUB POST ABOVE HEADER, BELOW TRUSS BEARING.
- SIMPSON STRONG-TIE HDU14-SDS2.5 HOLD-DOWN ANCHOR WITH PAB8-18" LONG ANCHOR BOLT CAST INTO FOUNDATION WALL.

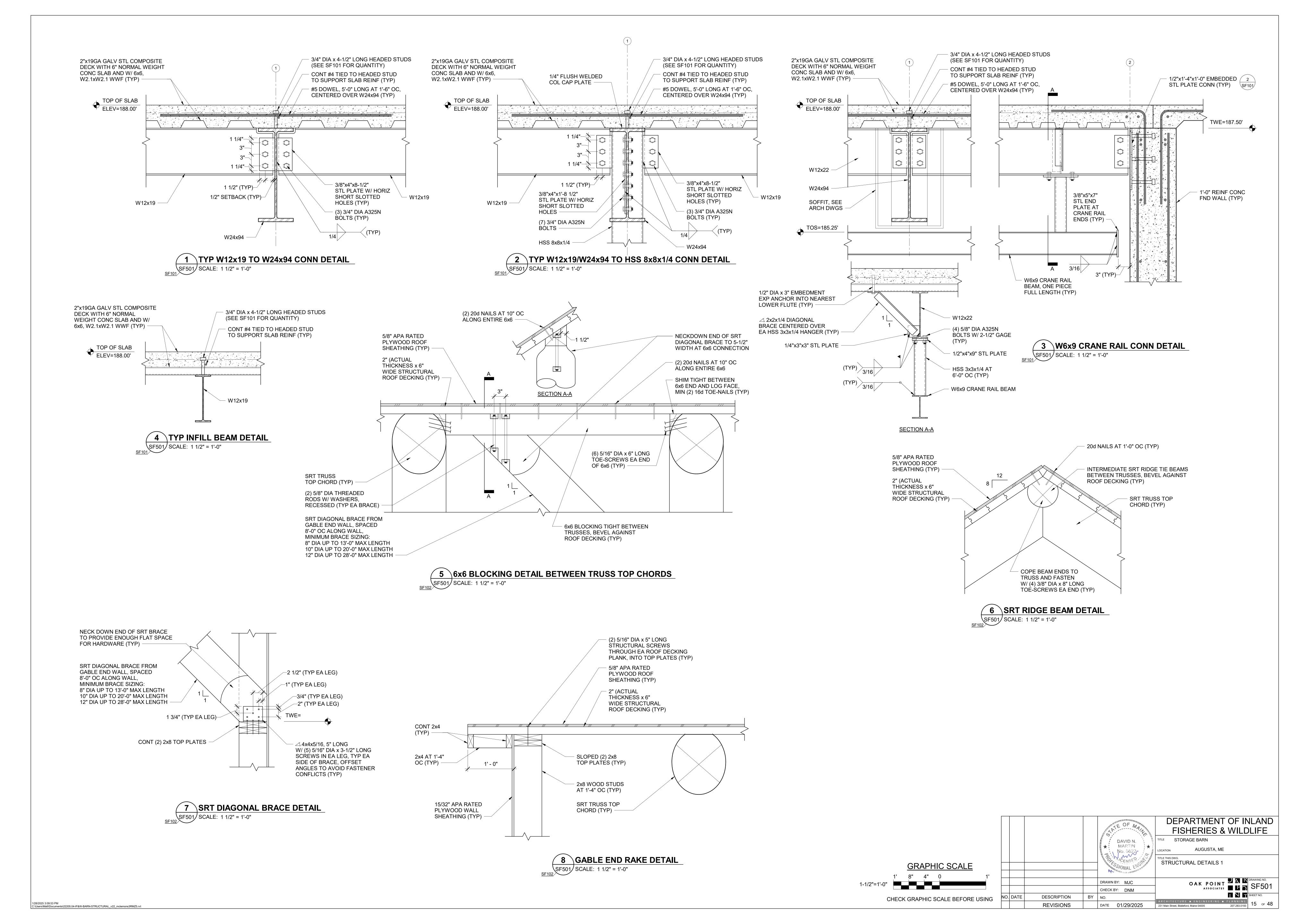
CONTINUOUS (2) 2x8 TOP PLATE.

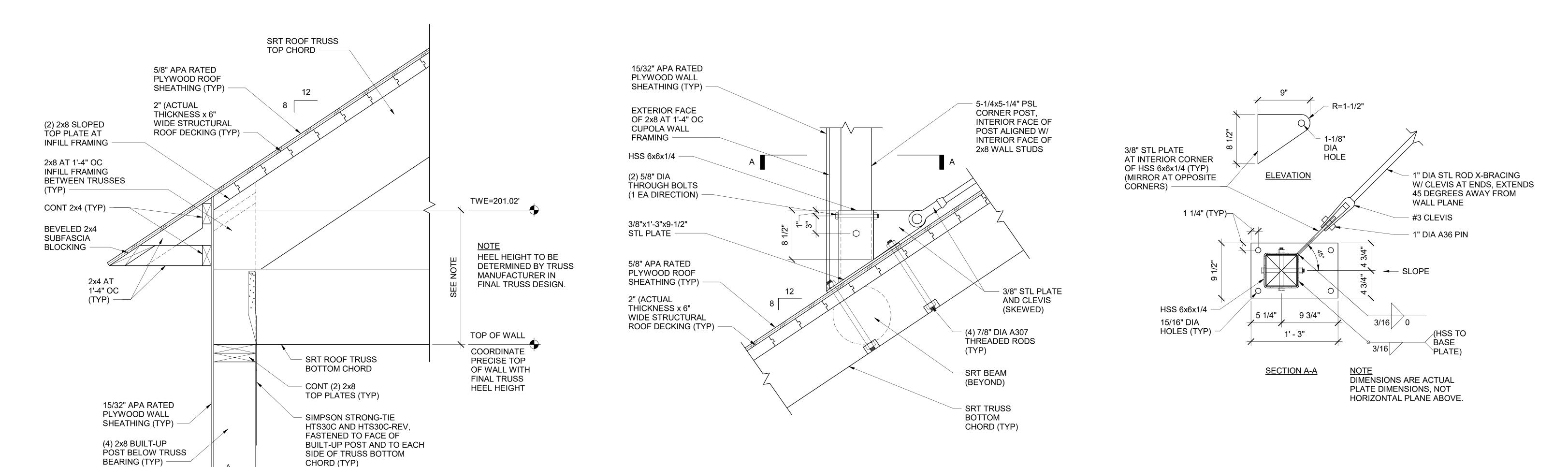
- CONTINUOUS 2x8 SILL PLATE OVER CONTINUOUS 2x8 PT SILL PLATE.
- 2x8 STUDS AT 1'-4" ON-CENTER INFILL WALL FRAMING BETWEEN TRUSS BEARING.
- (2) 2x8 TOP PLATE AT INFILL FRAMING BETWEEN TRUSS BEARING.



4 SHEAR WALL HOLD DOWN ANCHOR DETAIL SF201 SCALE: 1 1/2" = 1'-0"



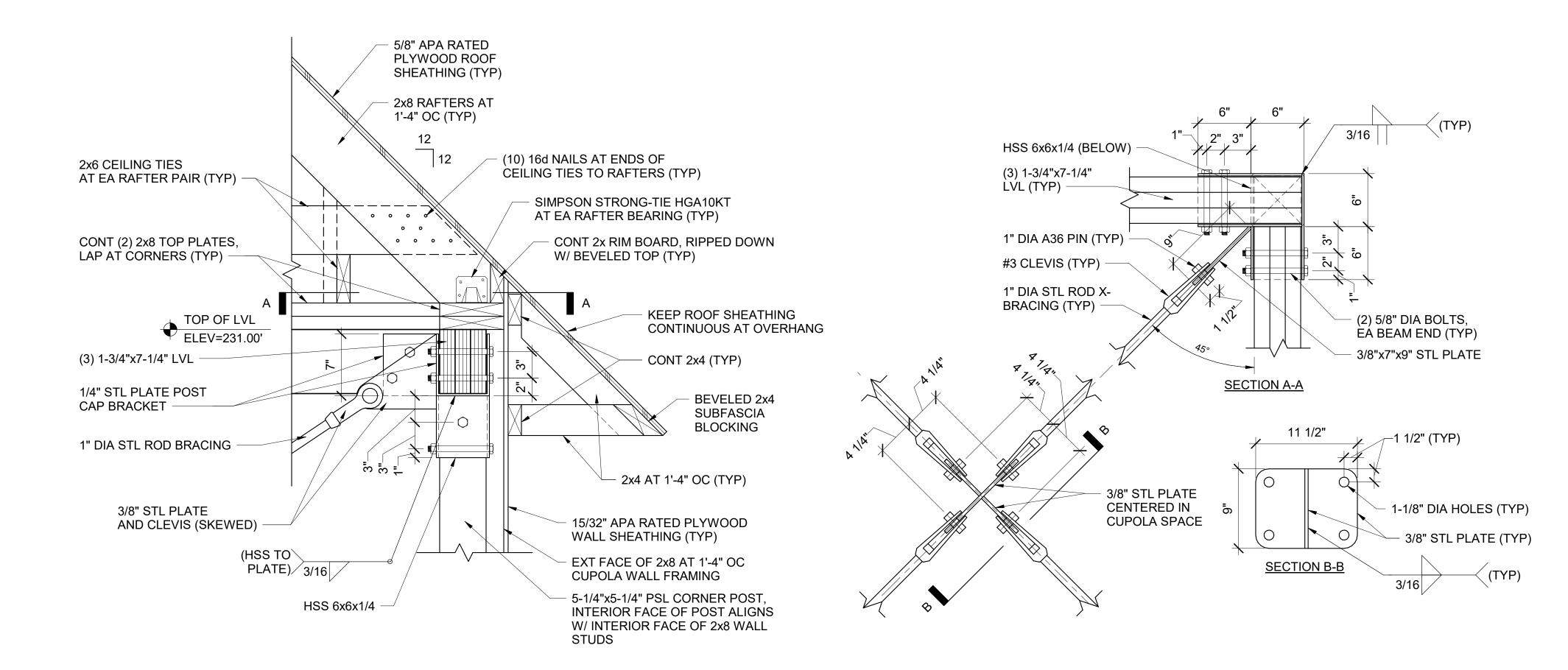




✓ 1 \TYP SRT TRUSS TO SHEAR WALL CONN DETAIL SF502 SCALE: 1 1/2" = 1'-0"

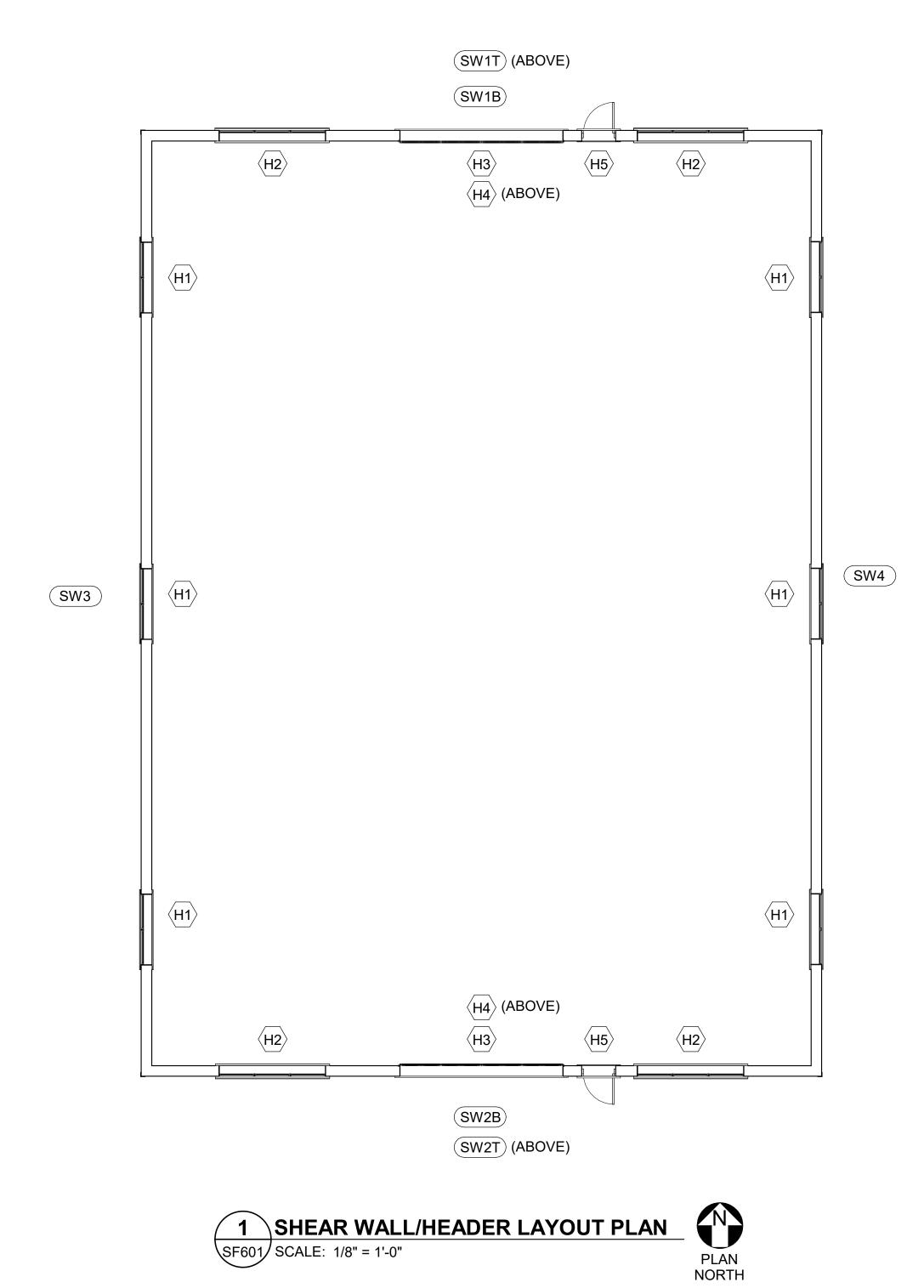
CHORD (TYP)

2 CUPOLA TO SRT TRUSS CONN DETAIL SF502 SCALE: 1 1/2" = 1'-0"



3 CUPOLA ROOF FRAMING DETAIL SF502 SCALE: 1 1/2" = 1'-0"

				THE OF MANNEY	DEPARTMENT OF INLAND FISHERIES & WILDLIFE
				DAVID N.	TITLE STORAGE BARN
				★ MARTIN ★ No. 6622	LOCATION AUGUSTA, ME
				CENSED CHILL	TITLE THIS DWG.  STRUCTURAL DETAILS 2
GRAPHIC SCALE				NE STONAL ENGINE	
1' 8" 4" 0 1'					
1-1/2"=1'-0"				DRAWN BY: MJC	OAK POINT DAK DRAWING NO.  SF502
,2				CHECK BY: DNM	
CHECK GRAPHIC SCALE BEFORE USING	NO. DATI	DESCRIPTION	BY	NO.	SHEET NO.
CHECK CIVIL THE COME BET CIVE CONTO		REVISIONS		DATE 01/29/2025	ARCHITECTURE E ENGINEERING PLANNING 231 Main Street, Biddeford, Maine 04005 207,283,0193

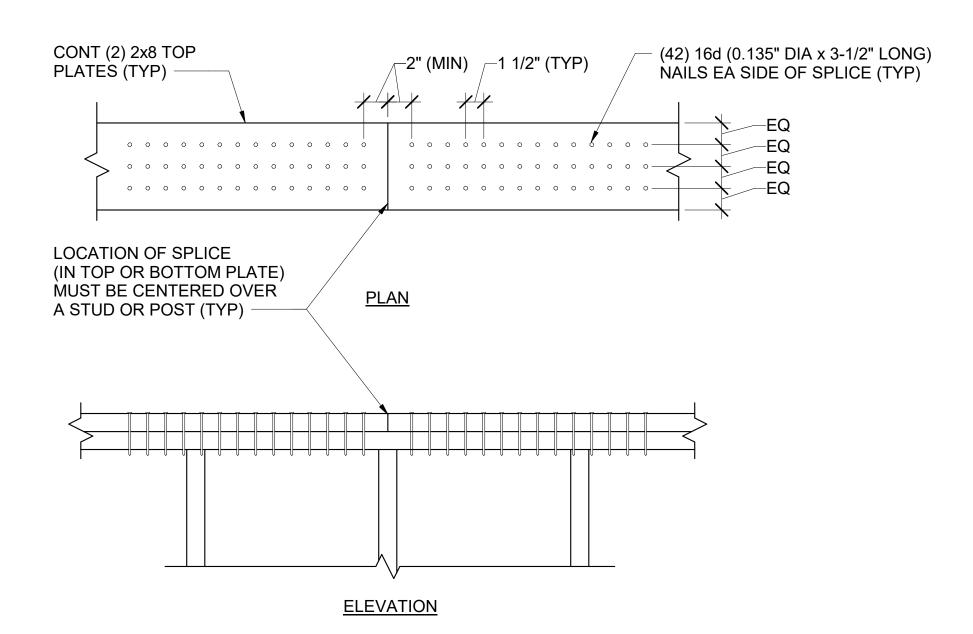


SHEAR WALL NOTES

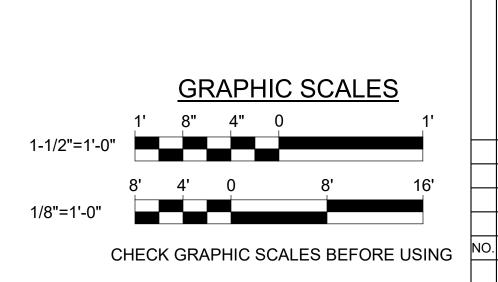
- 1. WALLS ARE 2x8 WOOD STUDS SPACED 1'-4" ON-CENTER.
- BUILT-UP 2x8 POST BELOW EACH ROOF TRUSS BEARING. SEE SHEET SF102.
- EXTERIOR WALL SHEATHING IS 15/32" APA RATED PLYWOOD SHEATHING.
- 4. SHEATHING NAILS ARE 10d NAILS. PANEL EDGE NAIL SPACING IS INDICATED IN THE SHEAR WALL SCHEDULE THIS SHEET. ALL PANEL FIELD SPACING IS 12" ON-CENTER.
- PROVIDE 2x8 BLOCKING AT ALL SHEATHING PANEL EDGES.
- SHEATHING PANEL MUST BE APPLIED WITH LONG DIMENSION ACROSS STUDS.
- 7. LOCATION OF HOLD-DOWN ANCHORS SHOWN ON SHEET SB101.
- 8. HOLD-DOWN ANCHOR AND ANCHOR BOLT DESIGNATION IS BASED ON SIMPSON STRONG-TIE PRODUCTS. OTHER PRODUCTS WHICH HAVE EQUAL OR GREATER CAPACITIES ARE PERMITTED.
- 9. REFER TO DETAIL 2/SF601 FOR SPLICE OF 2x8 TOP PLATES.

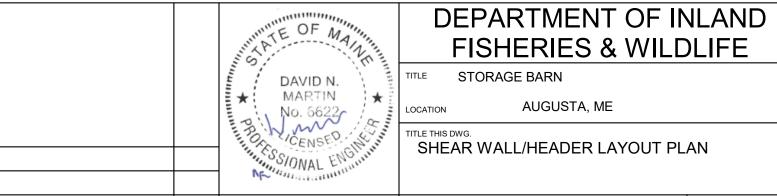
	SHEAR WALL SCHEDULE									
SHEAR WALL NO.	NO. OF SIDES OF PLYWOOD	EDGE NAIL SPACING (IN)	NO. OF SHEAR WALL END STUDS	HOLD-DOWN ANCHOR	ANCHOR BOLT					
SW1B	2	4	3	HDU14-SDS2.5	PAB8-18"					
SW2B	2	4	3	HDU14-SDS2.5	PAB8-18"					
SW1T	1	6	N/A	N/A	N/A					
SW2T	1	6	N/A	N/A	N/A					
SW3	1	6	2	N/A	N/A					
SW4	1	6	2	N/A	N/A					

	HEADER SCHEDULE									
DESIGNATION	SIZE	SUPPORT CONDITION, EACH END								
(H1)	(4) 1-3/4" x 14" LVL	(3) 2x8 JACK STUDS UNDER HEADER (2) 2x8 KING STUDS BESIDE HEADER								
(H2)	(4) 2x10 W/ (2) 5/8" PLYWOOD FILLERS	(1) 2x8 JACK STUD UNDER HEADER (3) 2x8 KING STUDS BESIDE HEADER								
(H3)	(4) 1-3/4" x 11-1/4" LVL	(1) 2x8 JACK STUD UNDER HEADER (3) 2x8 KING STUDS BESIDE HEADER								
(H4)	(4) 2x8 W/ (2) 5/8" PLYWOOD FILLERS	(1) 2x8 JACK STUD UNDER HEADER (4) 2x8 KING STUDS BESIDE HEADER								
(H5)	(4) 2x6 W/ (2) 5/8" PLYWOOD FILLERS	(1) 2x8 JACK STUD UNDER HEADER (1) 2x8 KING STUD BESIDE HEADER								



2 TYP SHEAR WALL (2) 2x8 TOP PLATE SPLICE DETAIL
SF601 SCALE: 1 1/2" = 1'-0"





DRAWN BY: MJC

CHECK BY: DNM

DATE 01/29/2025

DESCRIPTION

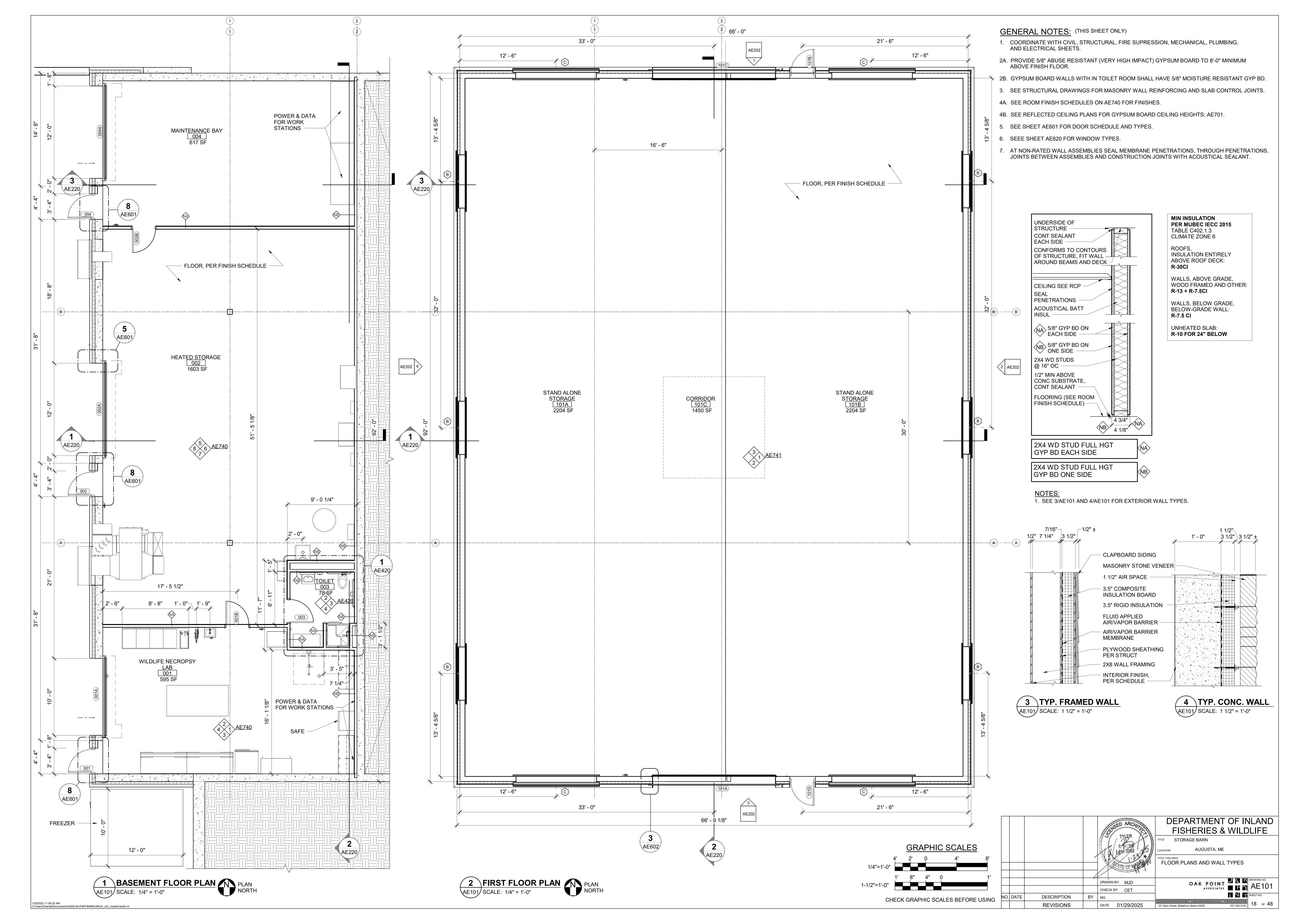
**REVISIONS** 

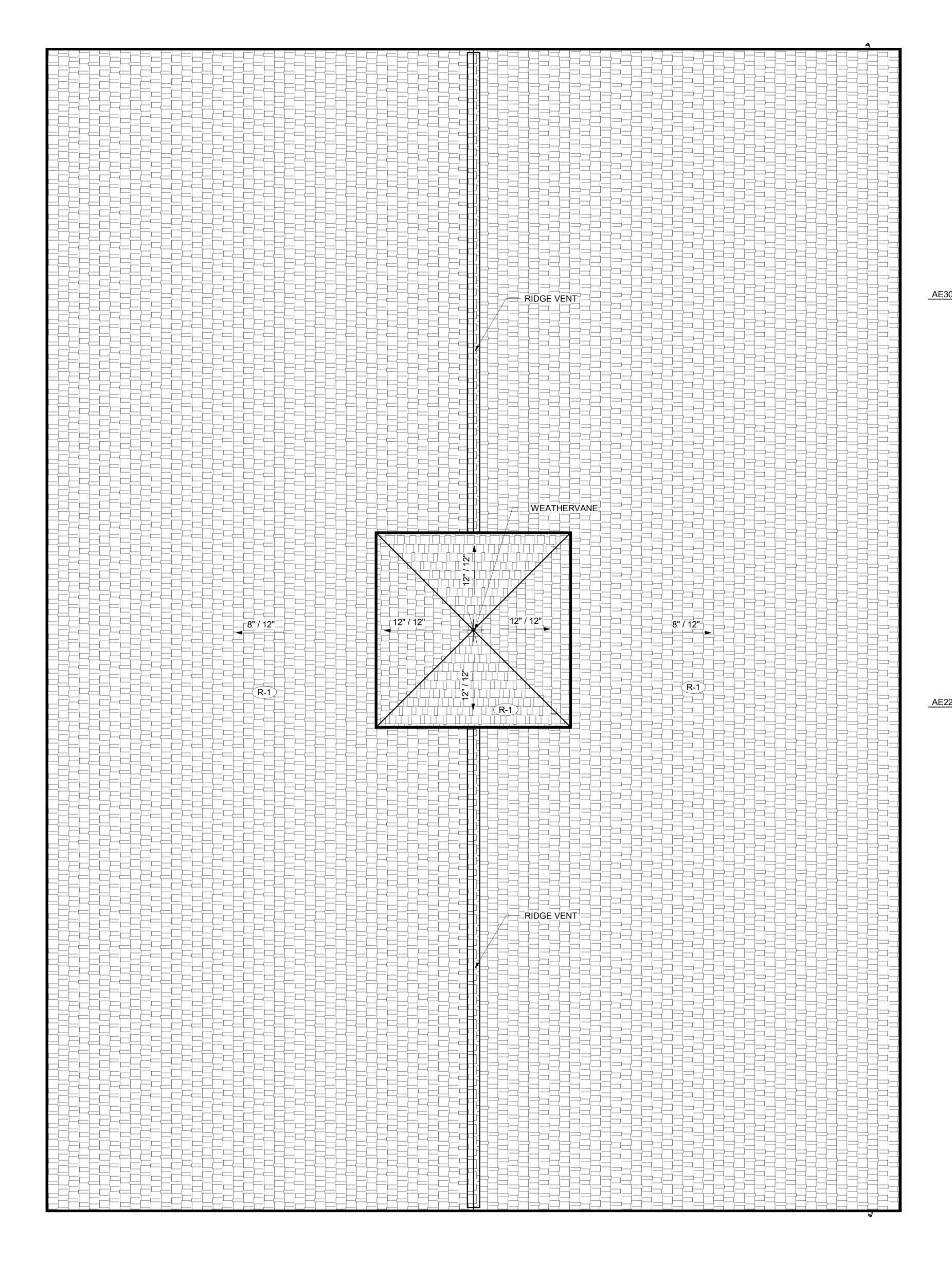
OAK POINT DAM DRAWING NO. SF601

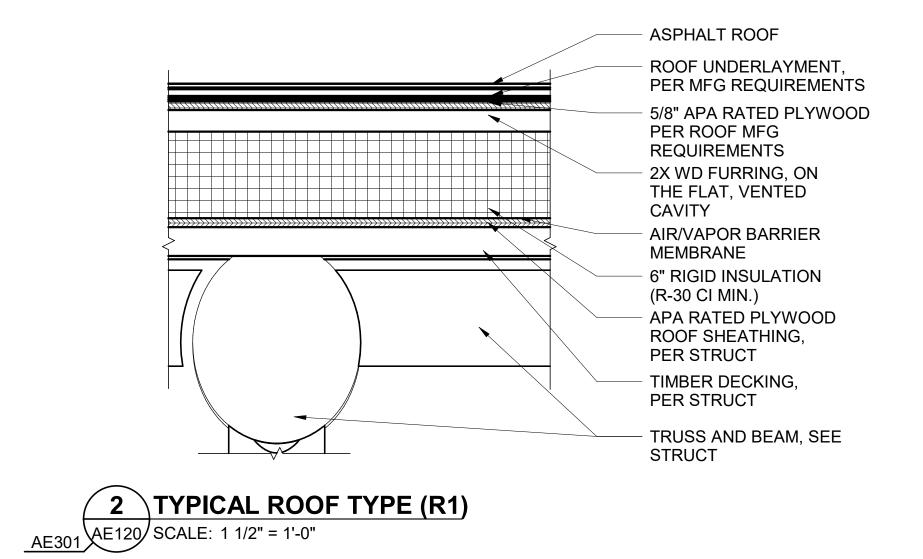
SHEET NO.

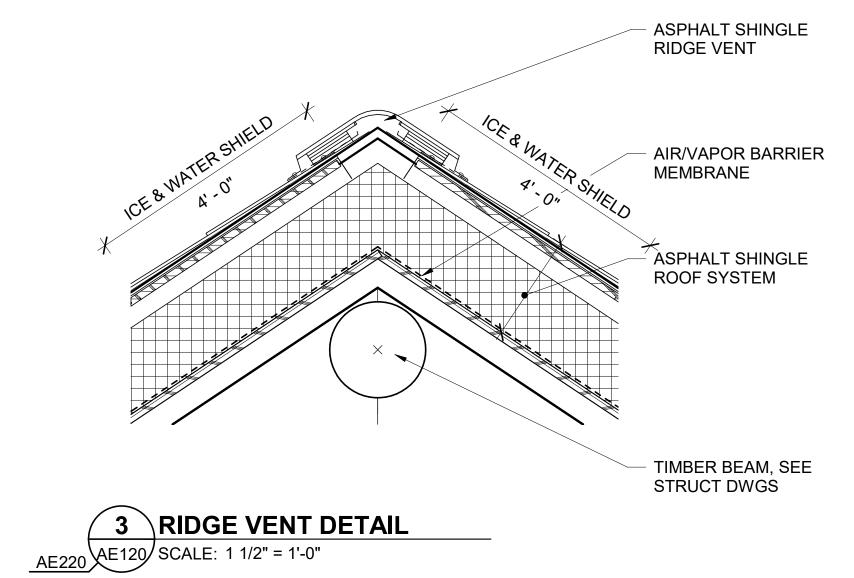
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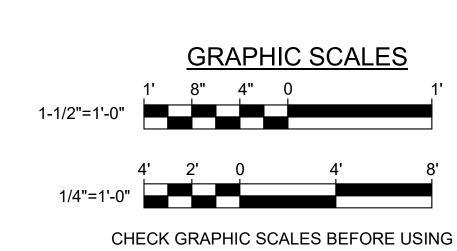




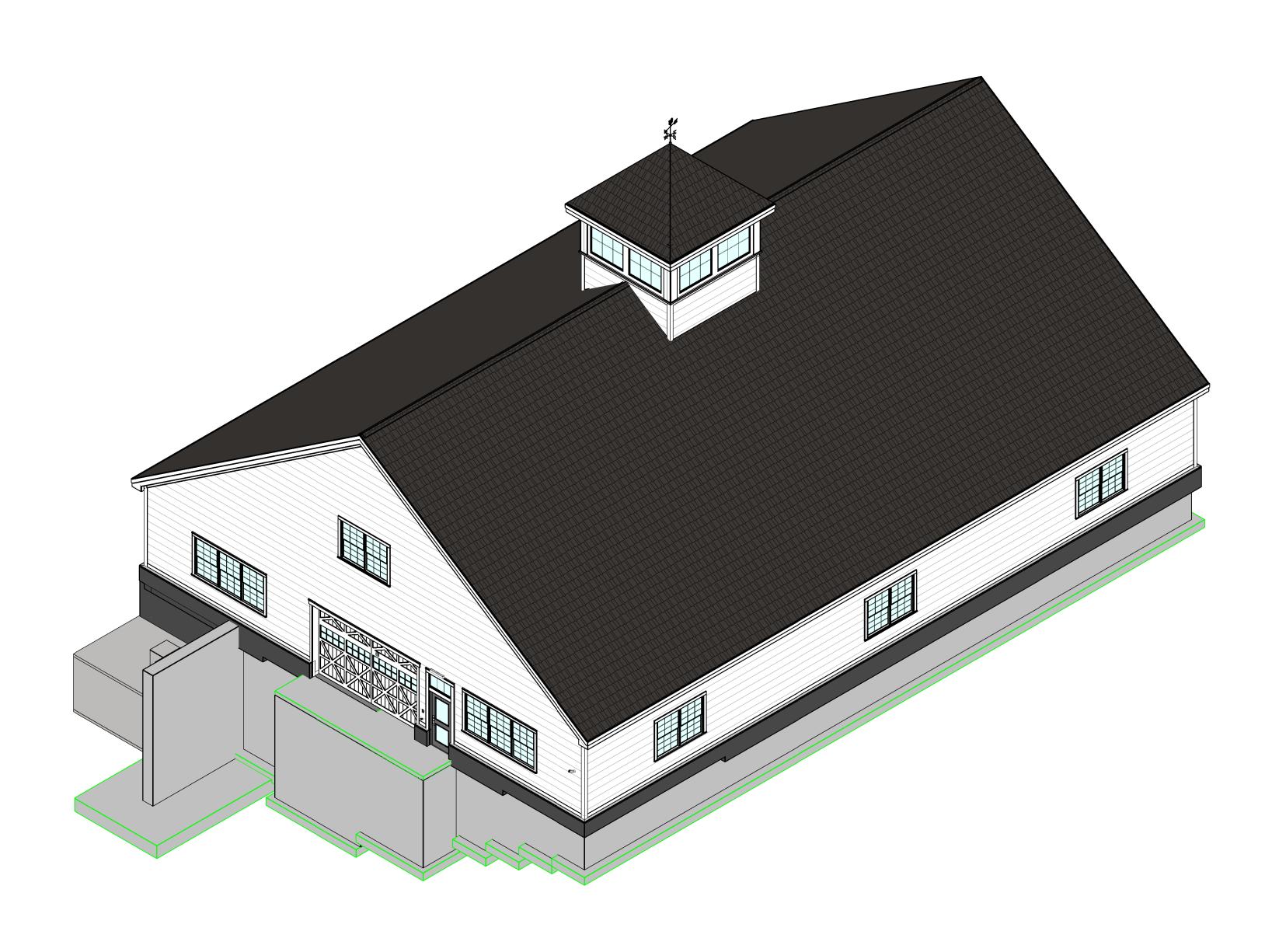




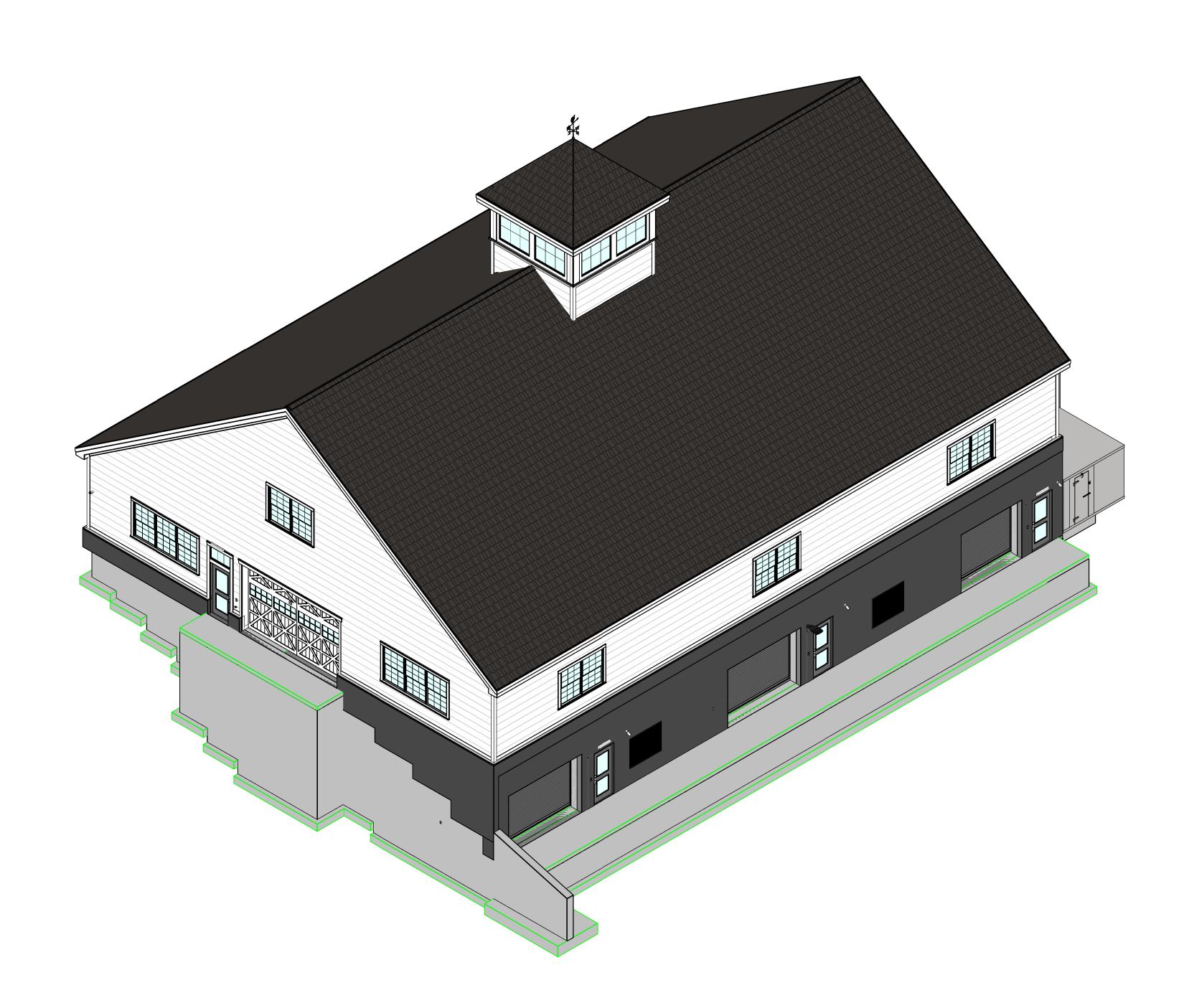
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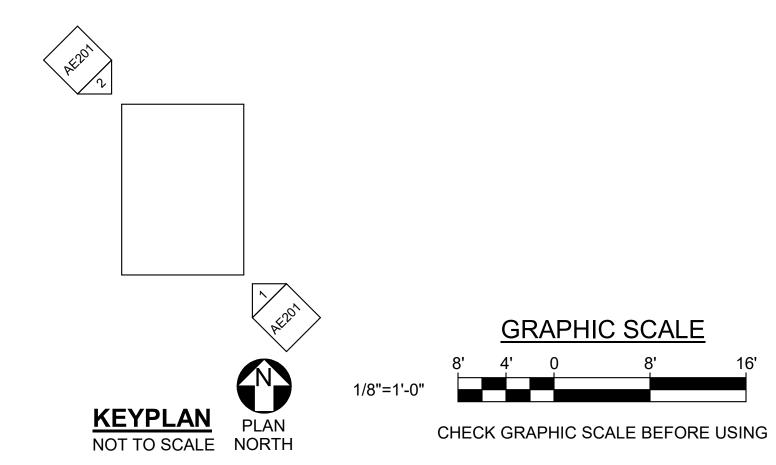
				-	TYLER  B. R. S. P.  B. R. S. P.  S. A. T. E. OF NAME AND A TE OF NAME AND	DEPARTMENT OF INLAND FISHERIES & WILDLIFE  TITLE STORAGE BARN  LOCATION AUGUSTA, ME  TITLE THIS DWG. ROOF PLAN AND DETAILS
					DRAWN BY: MJD	OAK POINT DAM DRAWING NO. ASSOCIATES DA AE120
					CHECK BY: CET	
<b>-</b>	NO.	DATE	DESCRIPTION	BY	NO.	SHEET NO.
			REVISIONS		DATE 01/29/2025	231 Main Street, Biddeford, Maine 04005 207.283.0193 19 of 48



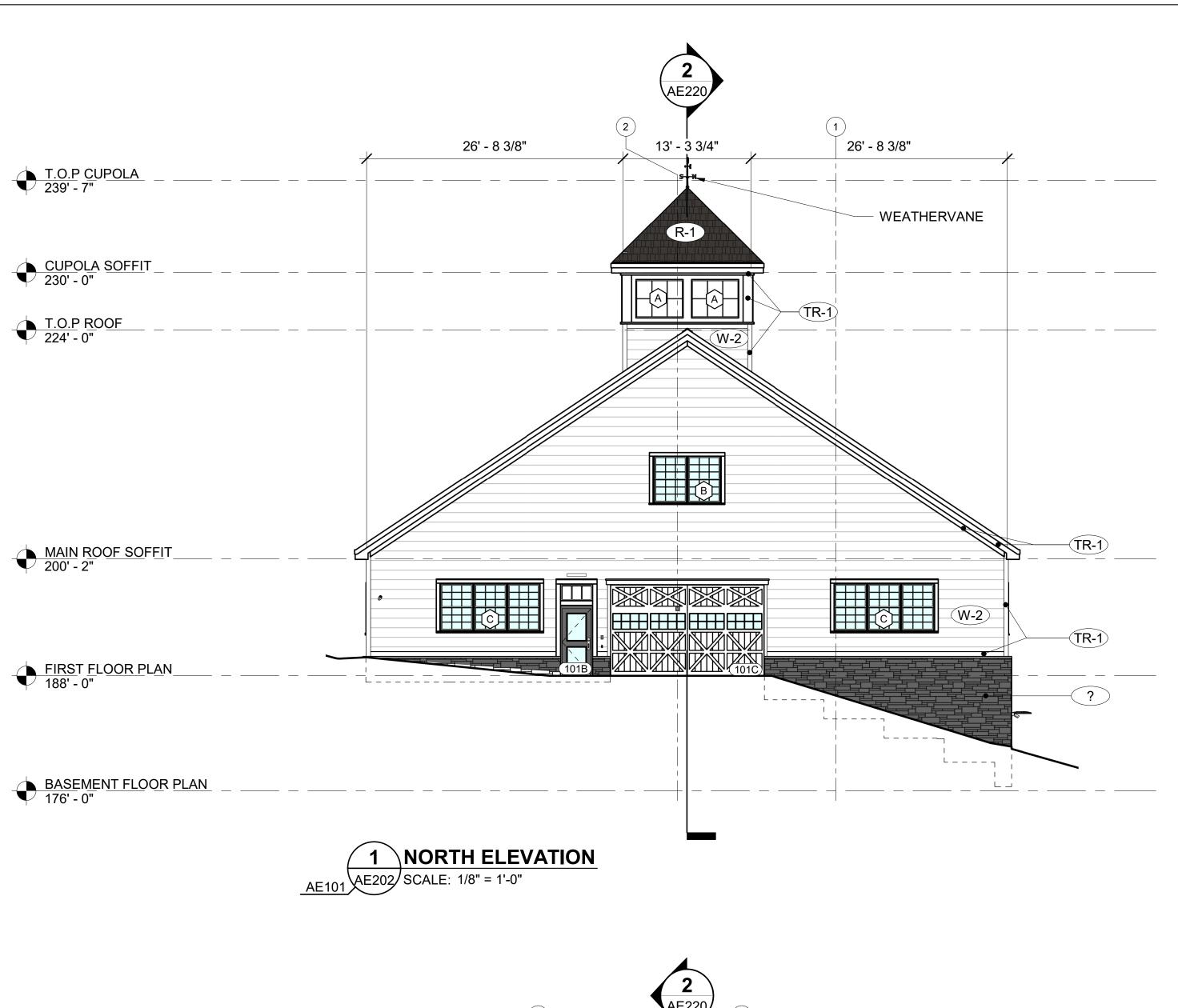


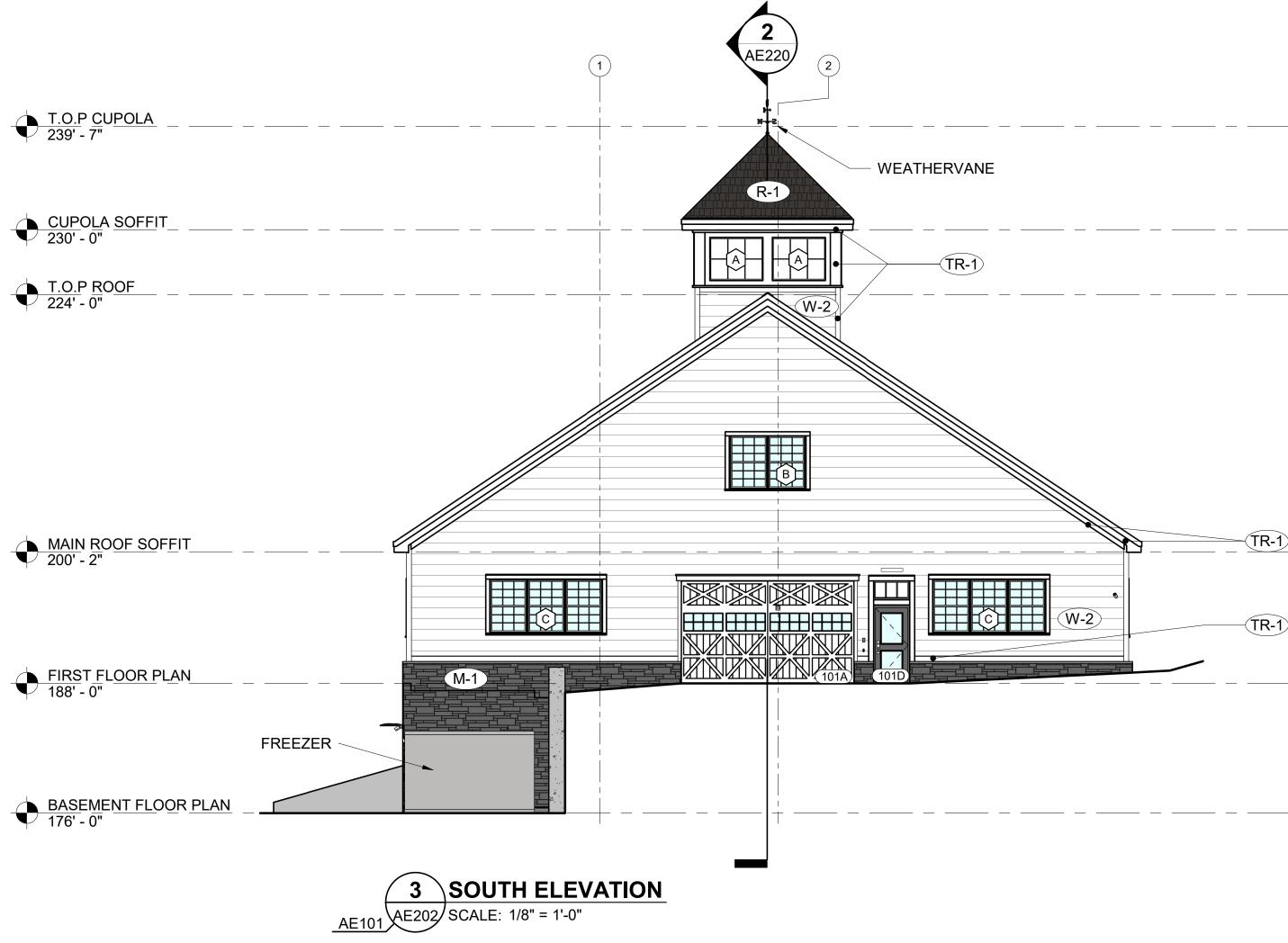


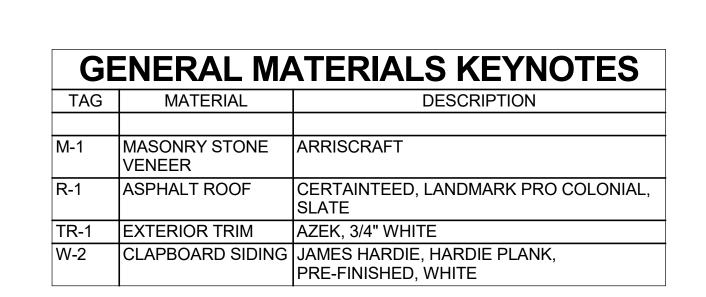


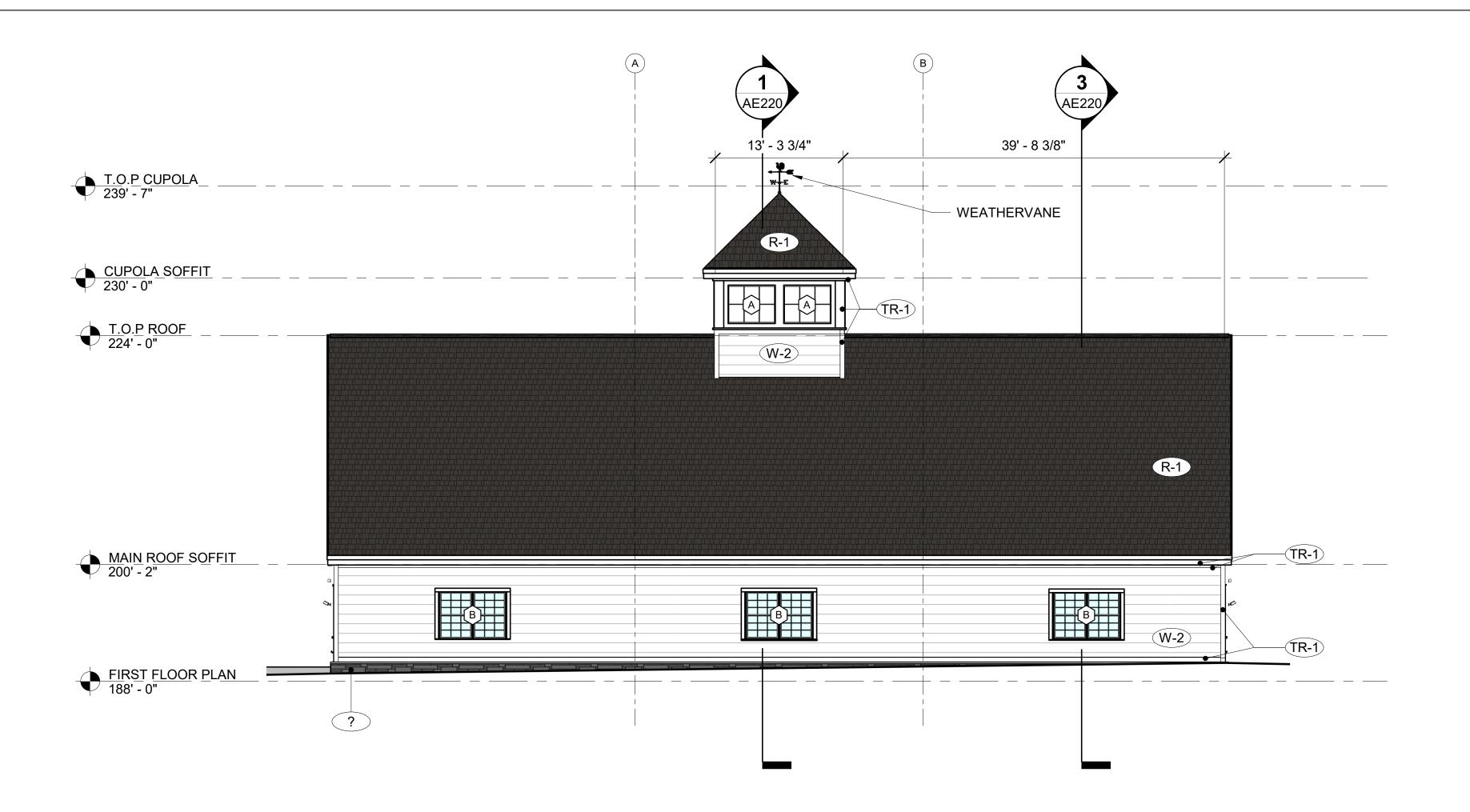


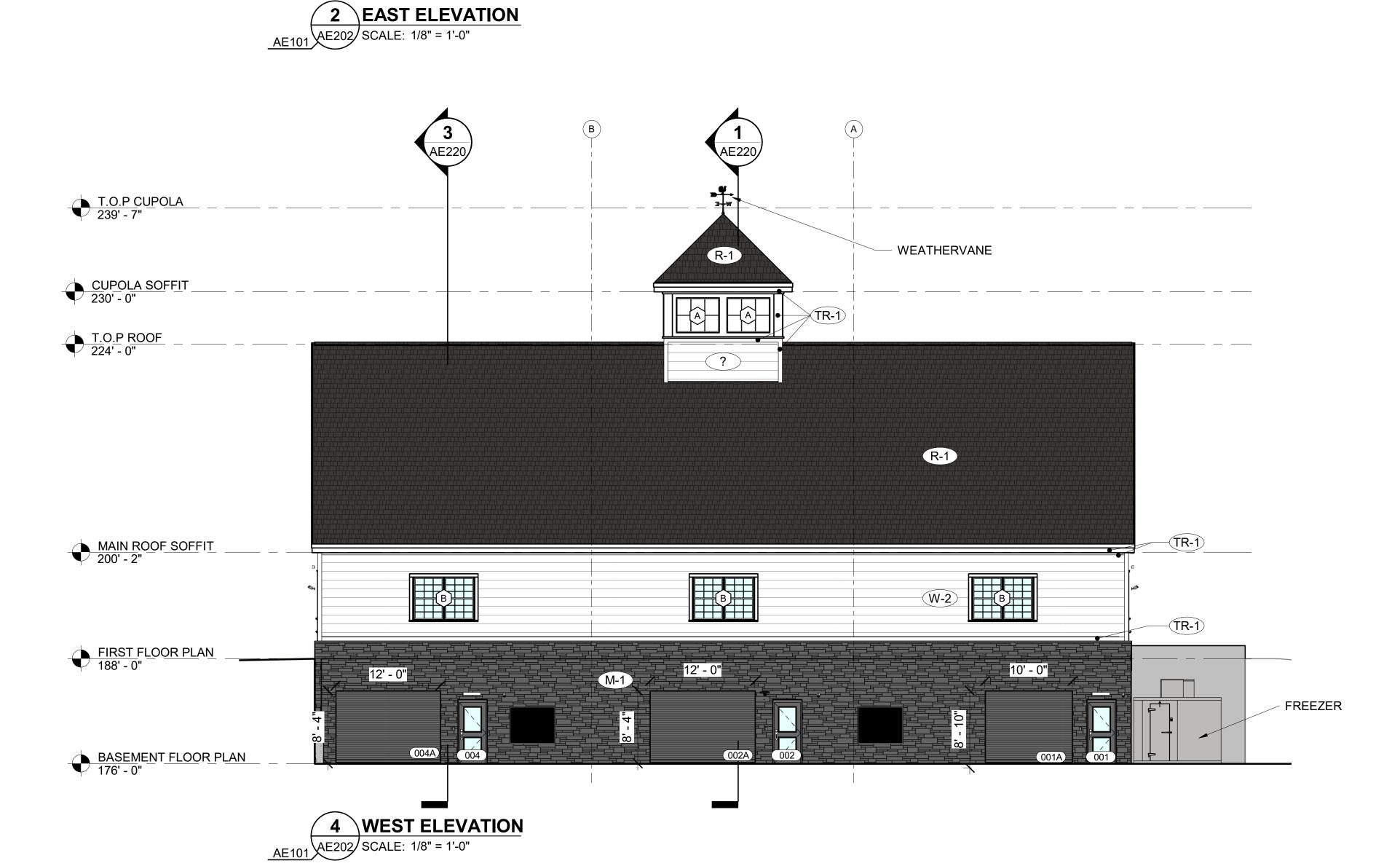
			,	SUNSED ARCHITECT  TYLER  BERTSER  WWW. 2982  WWW. 2982	DEPARTMENT OF INLAND FISHERIES & WILDLIFE  TITLE STORAGE BARN LOCATION AUGUSTA, ME  TITLE THIS DWG. BUILDING AXONS
				DRAWN BY: MJD  CHECK BY: CET	OAK POINT DAK DRAWING NO. ASSOCIATES AE201
NO.	DATE	DESCRIPTION	BY	NO.	SHEET NO.
		REVISIONS		DATE 01/29/2025	20 OF 48

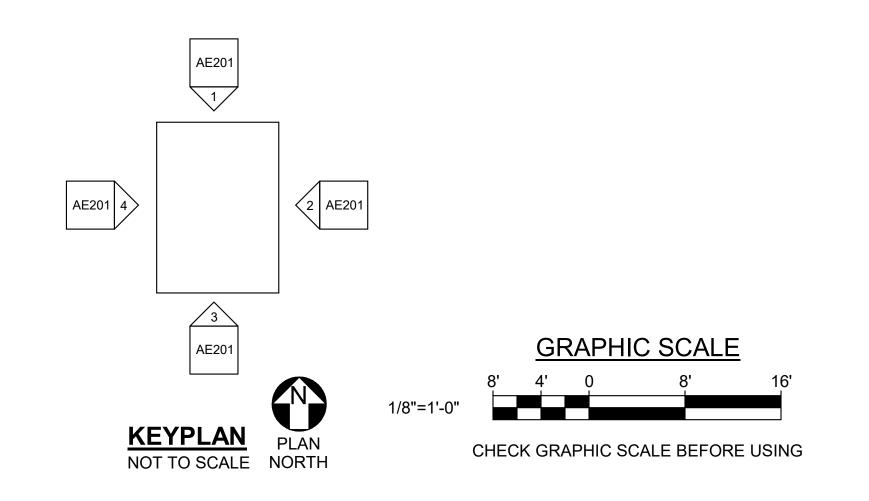


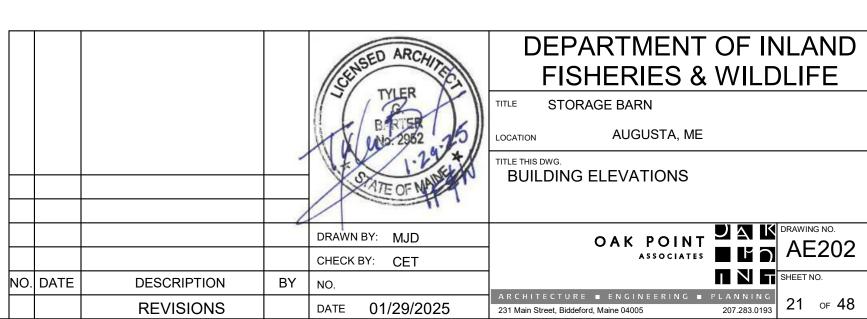






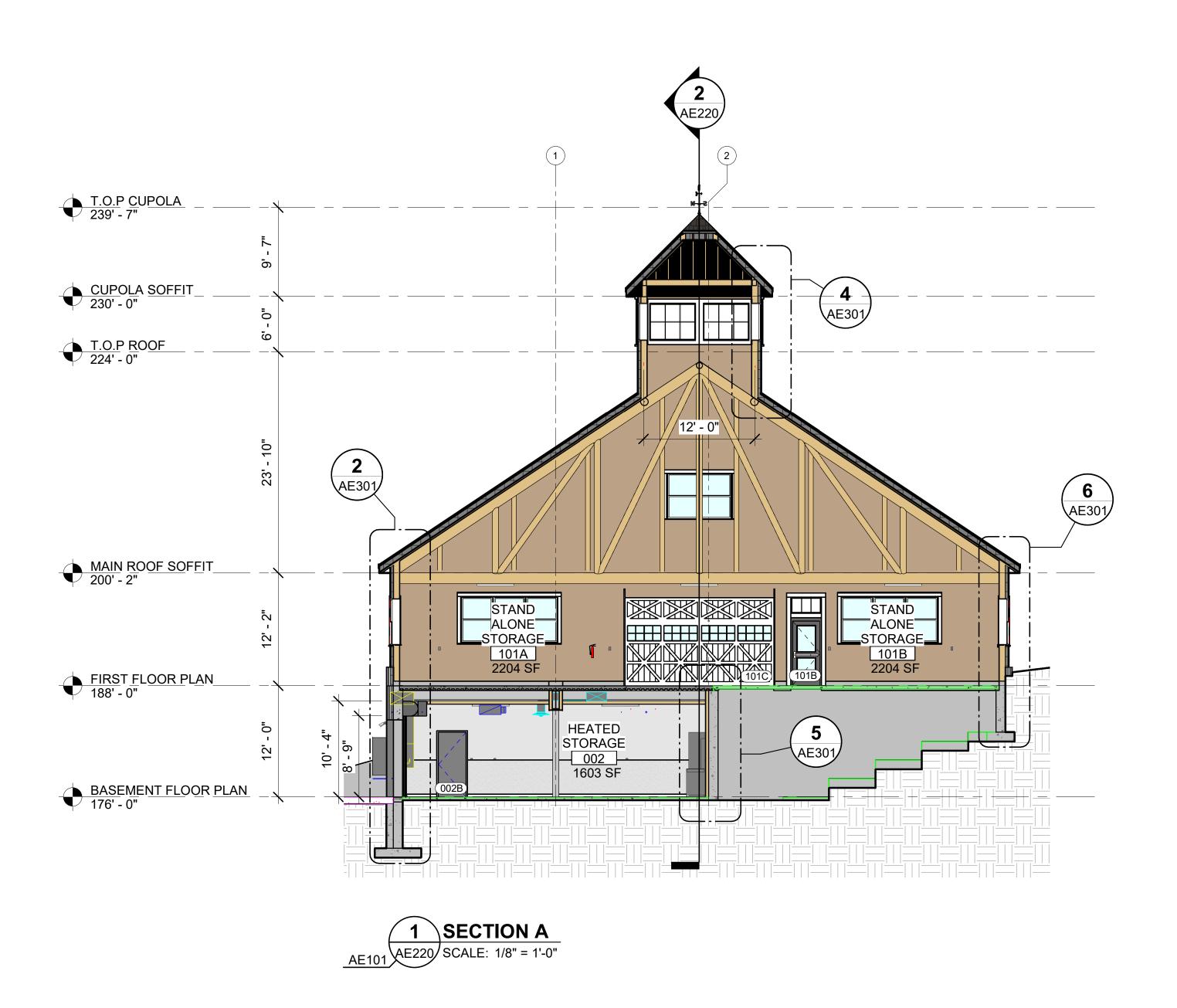


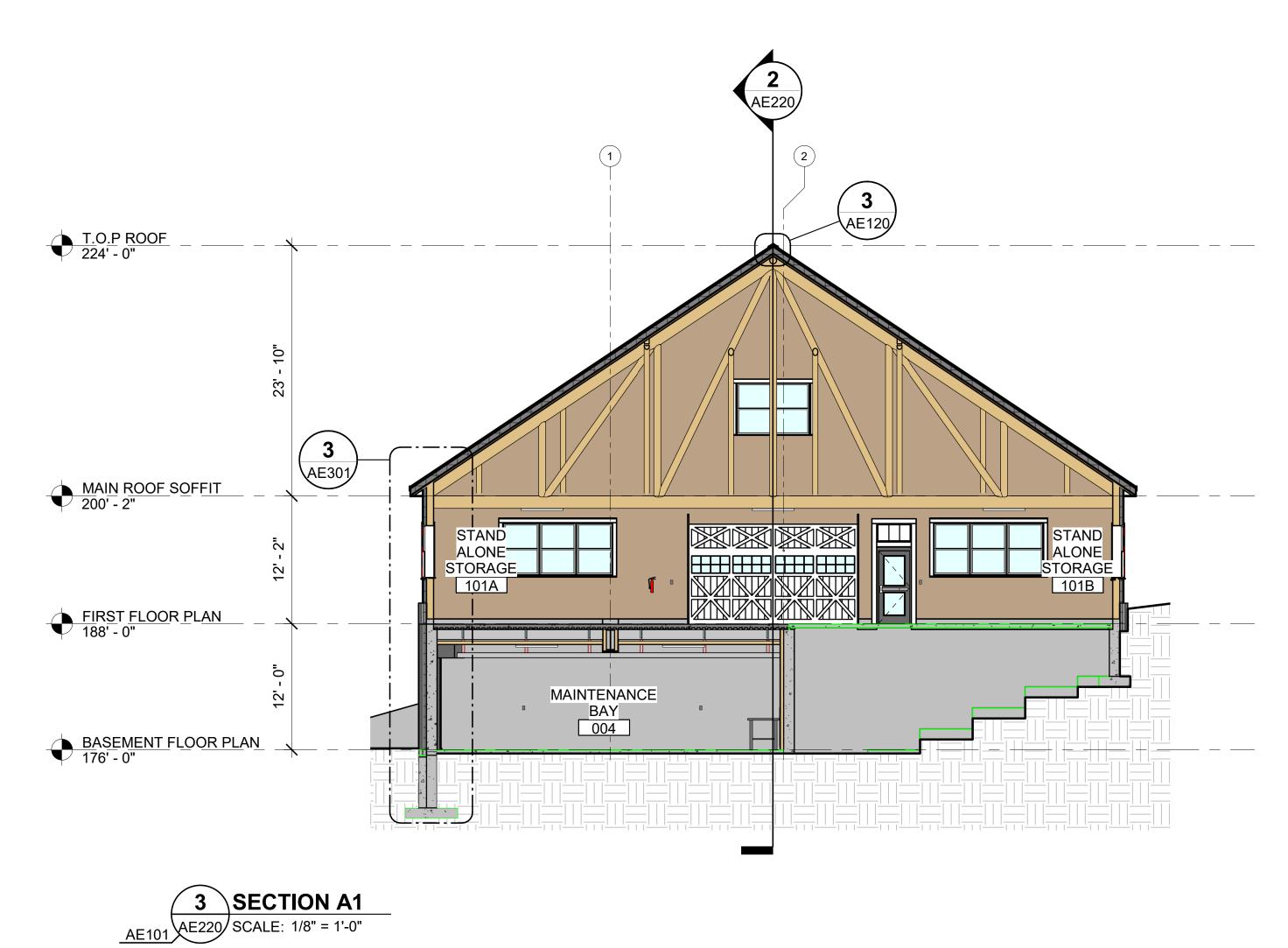




#### **GENERAL NOTES:**

- 1. SEE SHEET AE601 FOR DOOR SCHEDULE.
- 2. SEE SHEET AE620 FOR WINDOW SCHEDULE.
- 3. GRADING SHOWN IN EXTERIOR ELEVATIONS IS ONLY A GRAPHICAL REPRESENTATION. SEE CIVIL DRAWINGS FOR SITE GRADING.
- 4. COORDINATE WITH CIVIL, STRUCTURAL, FIRE SUPRESSION, MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS.





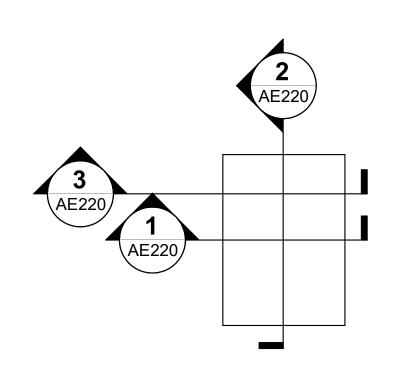


#### **GENERAL NOTES:**

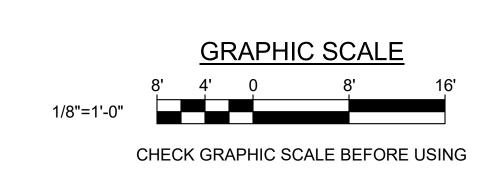
1. SEE SHEET AE601 FOR DOOR SCHEDULE.

- 2. SEE SHEET AE620 FOR WINDOW SCHEDULE.
- 3. GRADING SHOWN IN EXTERIOR ELEVATIONS IS ONLY A GRAPHICAL REPRESENTATION. SEE CIVIL DRAWINGS FOR SITE GRADING.



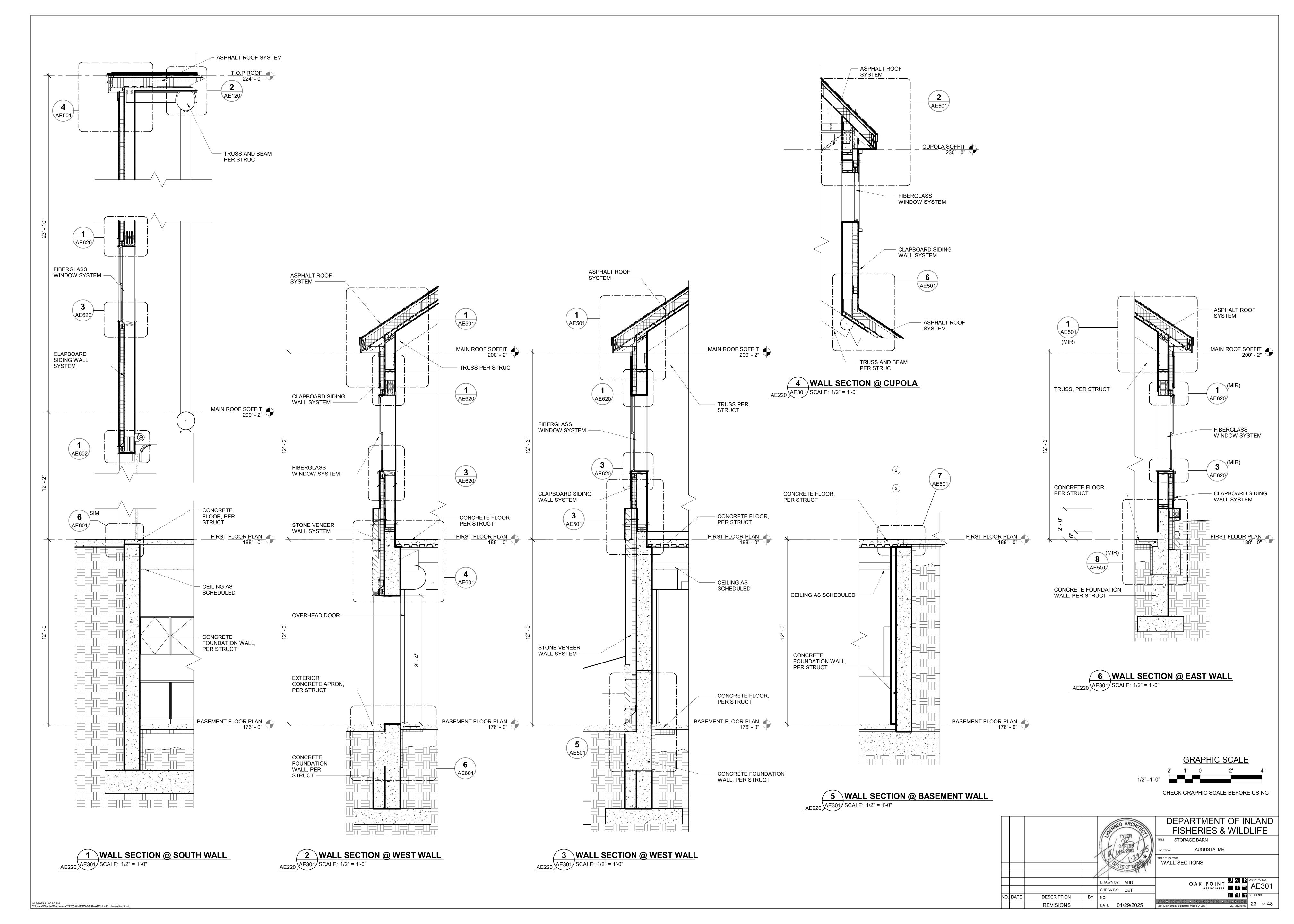


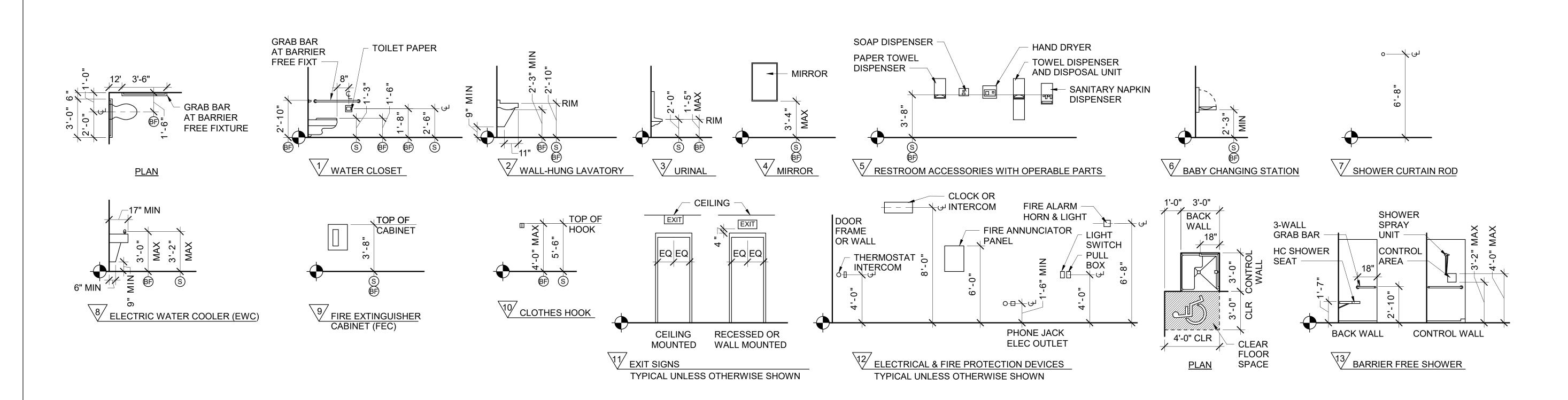


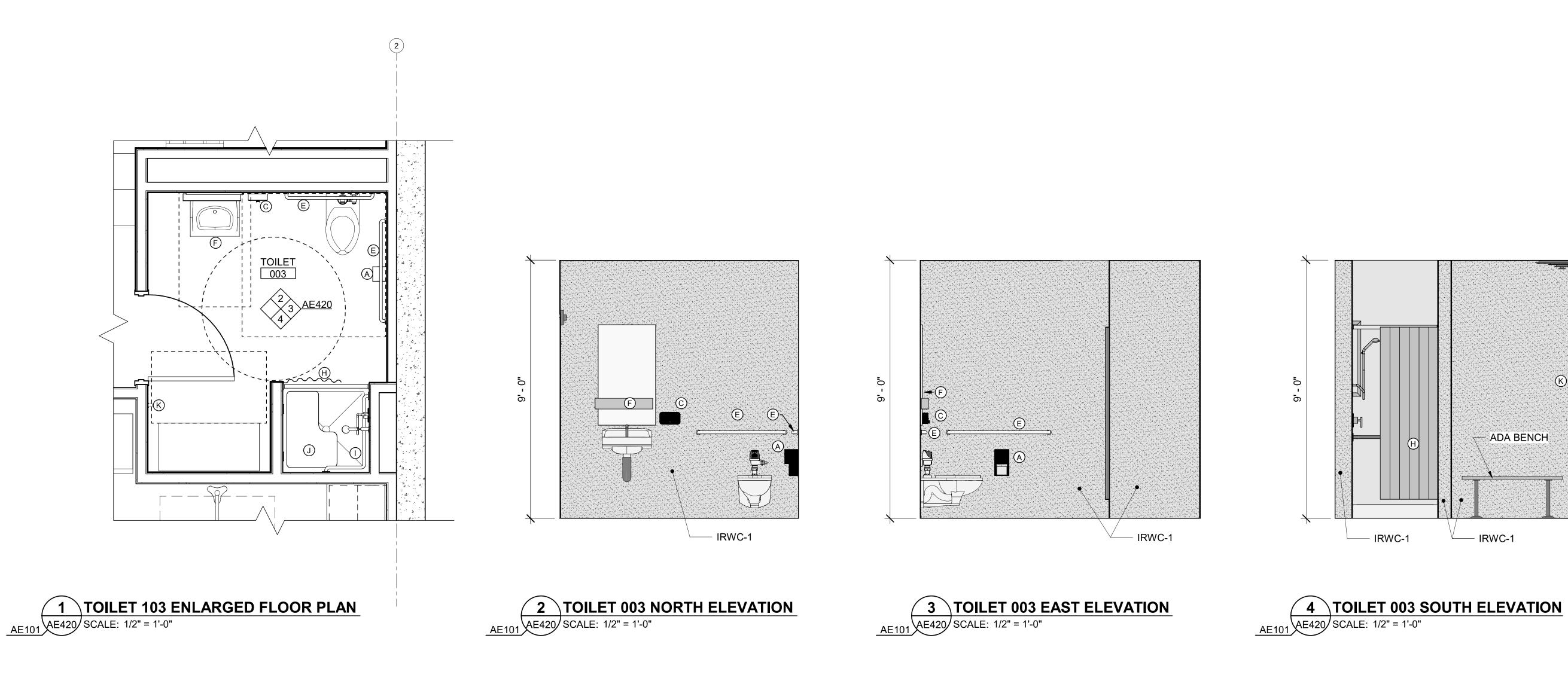


				SED ARCHI	DEPARTMENT OF INLAND
				SENSON THE STATE OF THE SENSON TH	FISHERIES & WILDLIFE
				TO A	TITLE STORAGE BARN
				V W2 2962 15	LOCATION AUGUSTA, ME
			-	1.2	TITLE THIS DWG. BUILDING SECTIONS
				ATE OF NO	BOILDING GEOTIONS
			1		
			5-500	DRAWN BY: MJD	OAK POINT DAM DRAWING NO.  ASSOCIATES AE220
				CHECK BY: CET	ASSOCIATES ACZZU
NO	DATE	DESCRIPTION	BY	NO.	SHEET NO.
		REVISIONS		DATE 01/29/2025	ARCHITECTURE ENGINEERING PLANNING 22 OF 48

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NOTES:
1. COORDINATE BLOCKING LOCATIONS W/ ACCESSORY ITEMS SUPPLIED BY OWNER.

2. SEE AE420 FOR MOUNTING HEIGHTS AND ACCESSORY SCHEDULE.

3. SEE SHEET AE601 FOR DOOR SCHEDULE AND TYPES.

4. SEE SHEET AE740 FOR ROOM FINISH SCHEDULE.

**LEGEND ABBREVIATIONS** 

PT DISP PAPER TOWEL DISPENSER

S STANDARD MOUNTING HEIGHT

B BARRIER FREE ADULT MOUNTING HEIGHT WATER CLOSET

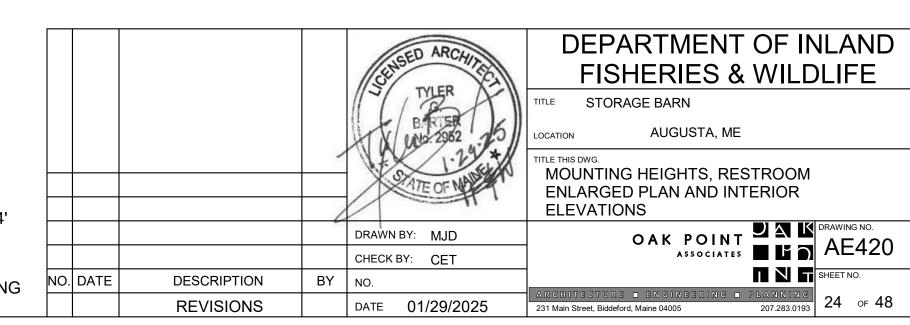
FINISH FLOOR LINE

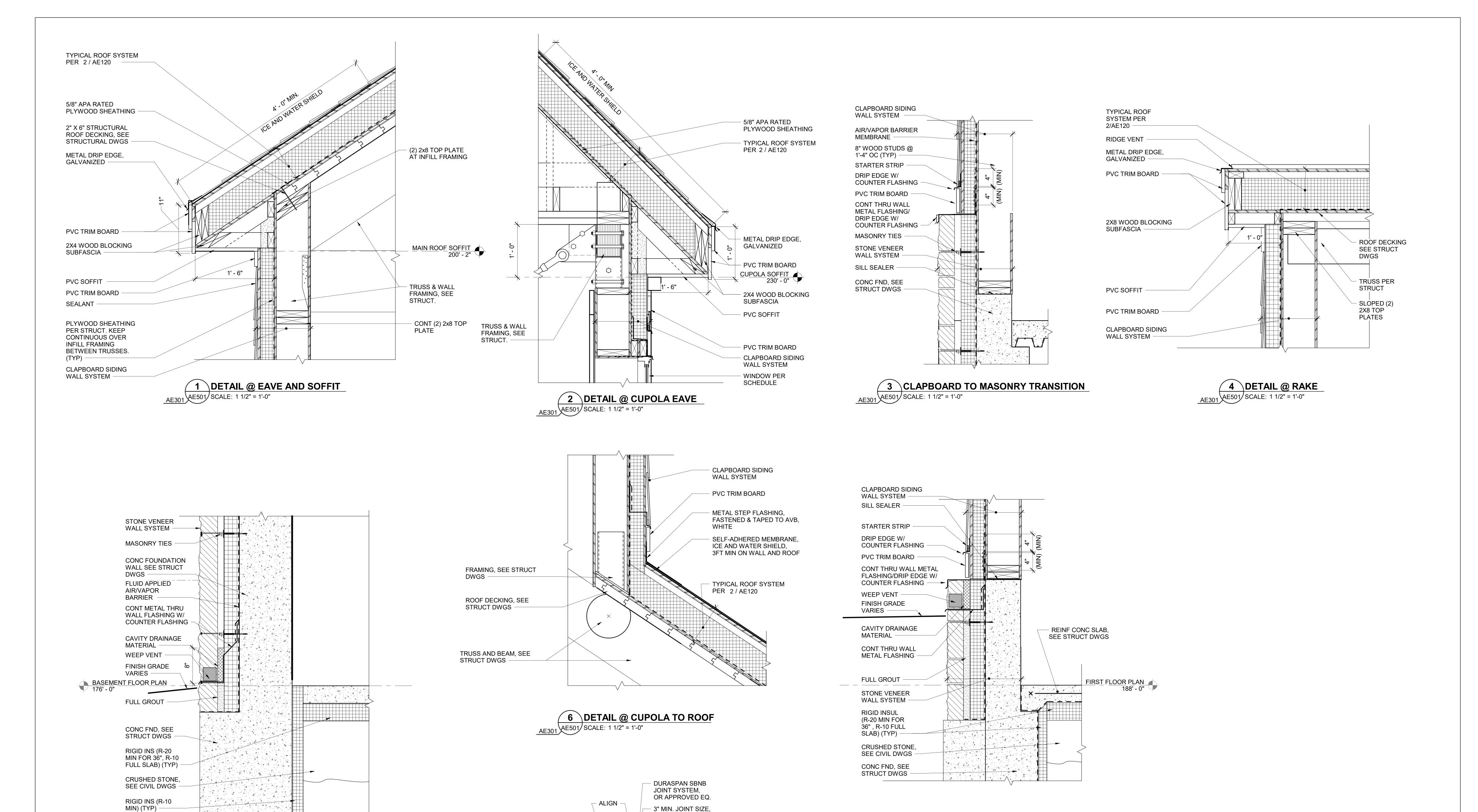
BF OR 🔓 BARRIER FREE VERIFY IN FIELD BASIS OF DESIGN

**BENCH** 

IMPACT RESISTANT WALL COVERING

	RESTROOM ACCESSORY SCHEDULE								
LTR	ITEM	COMMENTS							
Α	TOILET TISSUE DISPENSER	OWNER SUPPLIED							
В	PAPER TOWEL DISPENSER	OWNER SUPPLIED							
С	SOAP DISPENSER	WALL MOUNTED, OWNER SUPPLIED							
D	WASTE RECEP	BOBRICK B-2300 18GAL							
E	1 1/2" DIAMETER GRAB BAR								
F	FRAMELESS MIRROR	40" MAX HEIGHT OF REFLECTIVE SURFACE							
Н	SHOWER CURTAIN WITH ROD								
I	HC SHOWER GRAB BAR								
J	HC SHOWER SEAT								
K	CLOTHES HOOK								



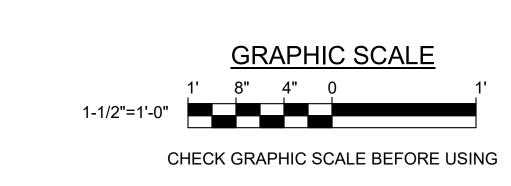


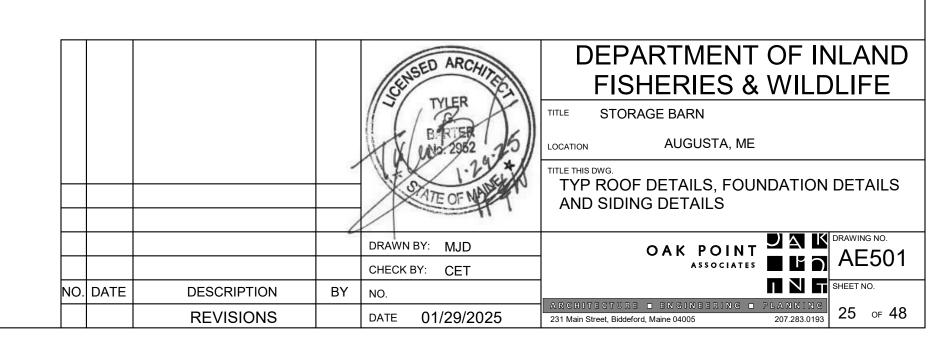
8 DETAIL @ BASE OF WALL
AE301 SCALE: 1 1/2" = 1'-0"

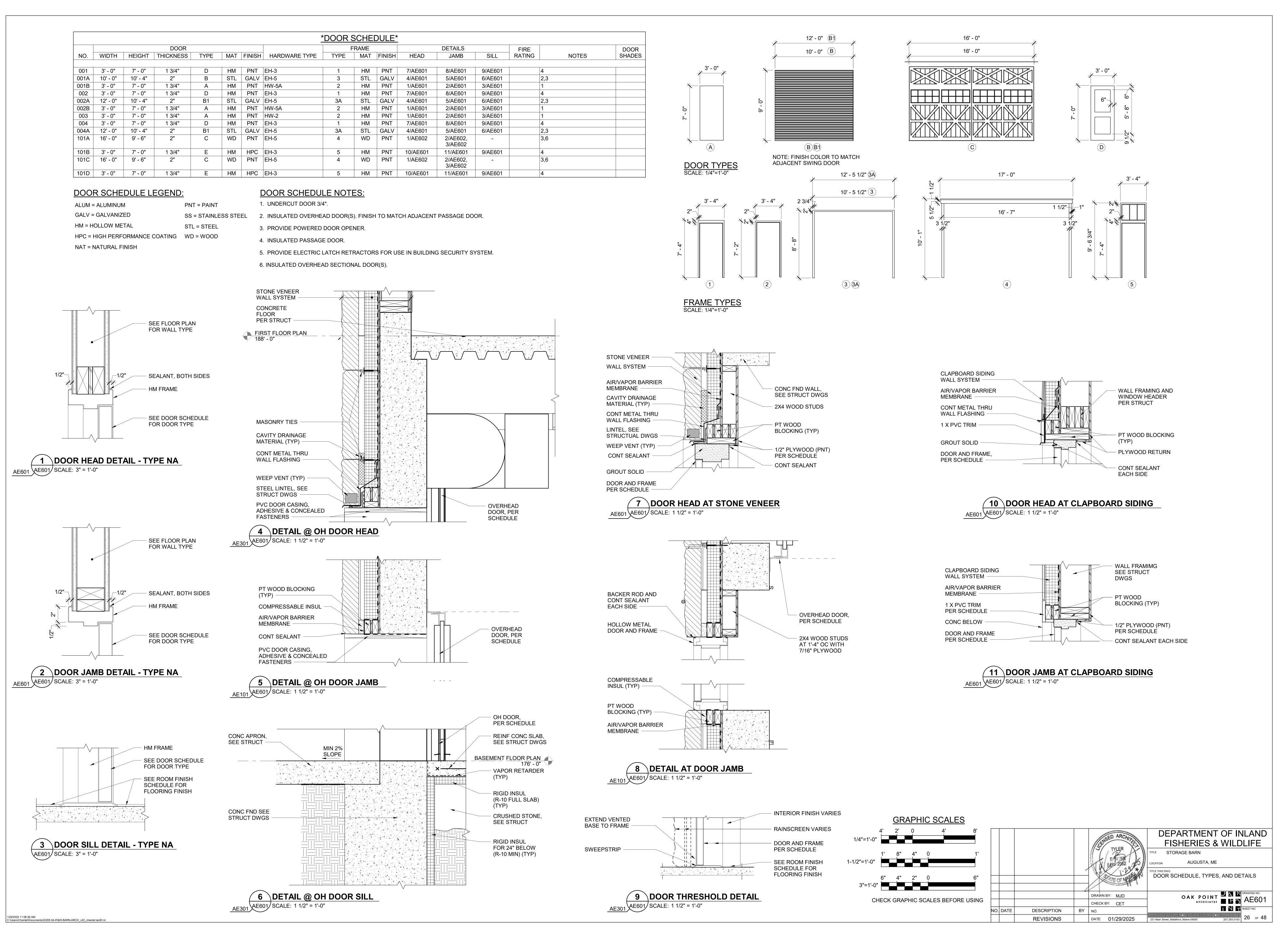
5 DETAIL @ BASE OF WALL STONE VENEER
AE301 SCALE: 1 1/2" = 1'-0"

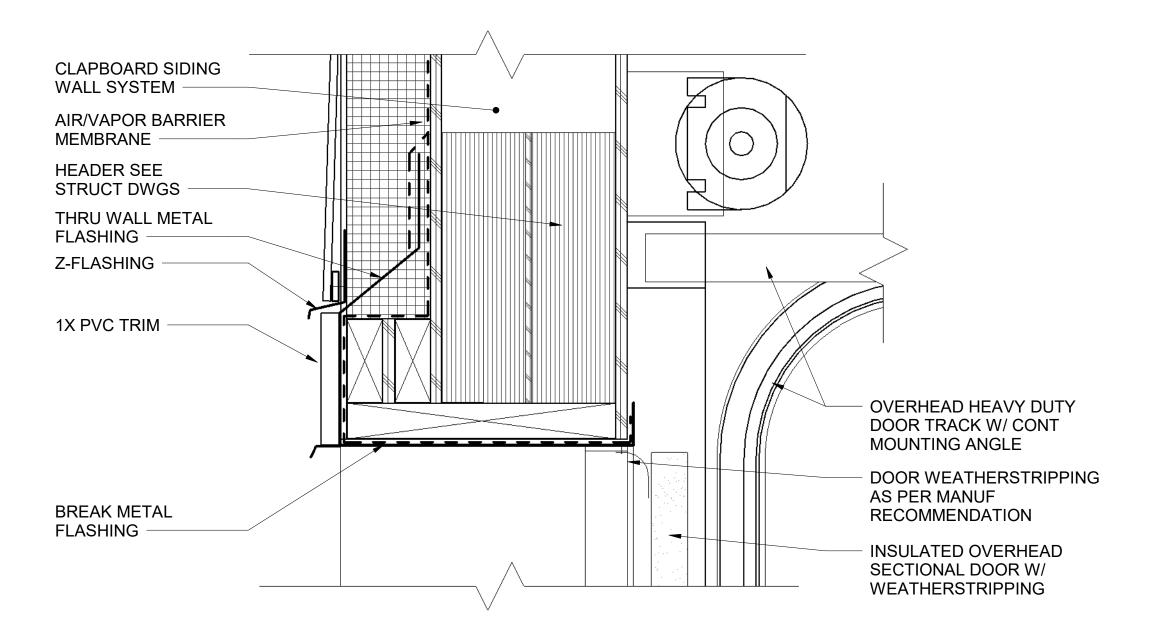
7 DETAIL AT FLOOR EXPANSION JOINT
AE301 SCALE: 1 1/2" = 1'-0"

SEE MFG INSTRUCTIONS

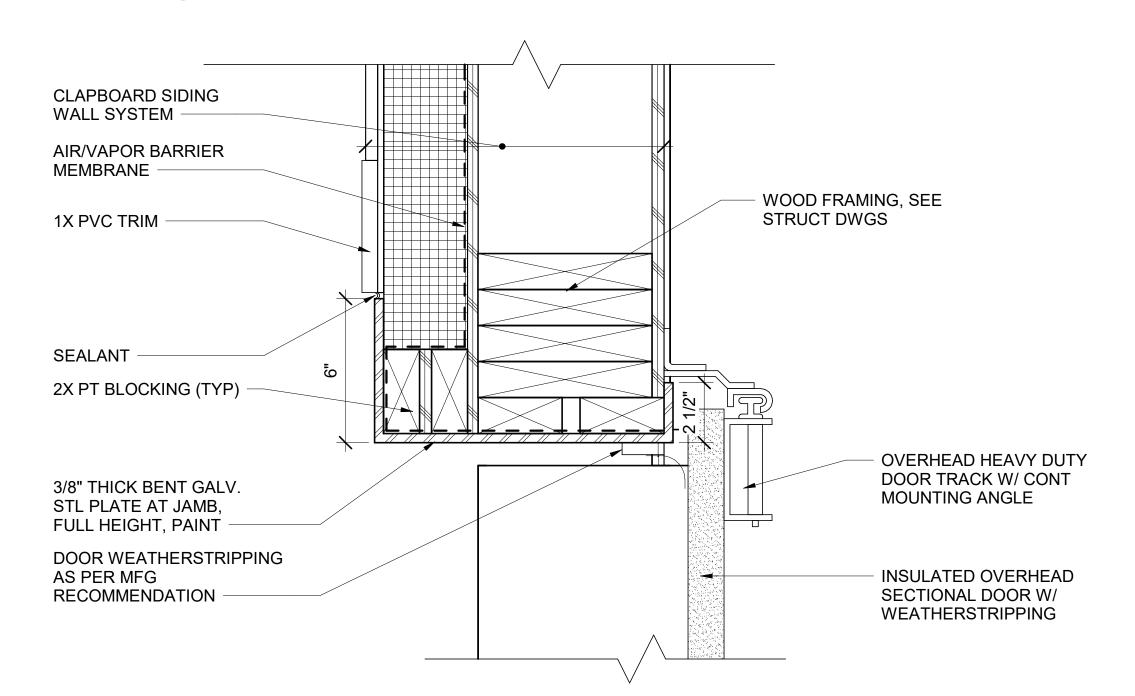




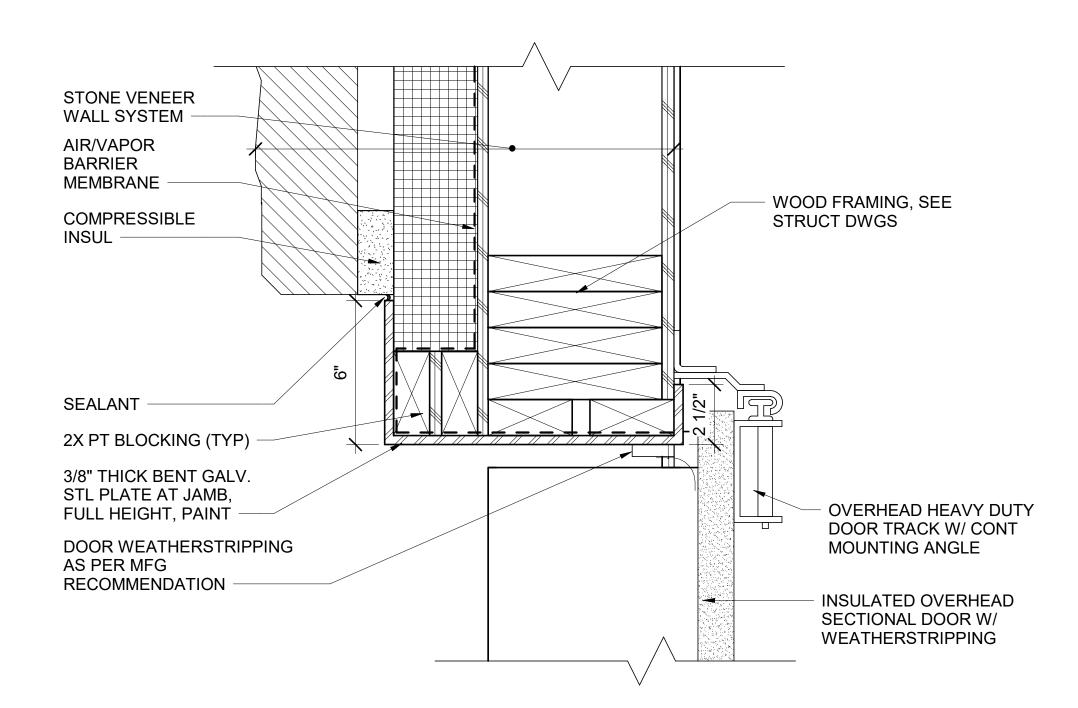




## 1 OVERHEAD SECTIONAL DOOR HEAD DETAIL AF602 SCALE: 3" = 1'-0"

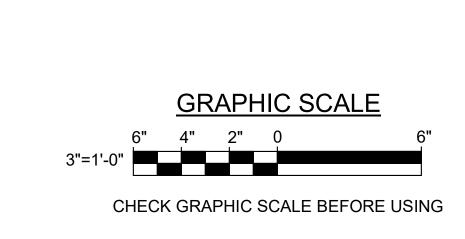


## 2 OVERHEAD SECTIONAL DOOR JAMB AT SIDING DETAIL AE601 SCALE: 3" = 1'-0"



3 OVERHEAD SECTIONAL DOOR JAMB AT STONE DETAIL

AE602 SCALE: 3" = 1'-0"



DEPARTMENT OF INLAND
FISHERIES & WILDLIFE

TITLE STORAGE BARN
LOCATION AUGUSTA, ME

TITLE THIS DWG.
DOOR DETAILS

DRAWN BY: Author
CHECK BY: Designer

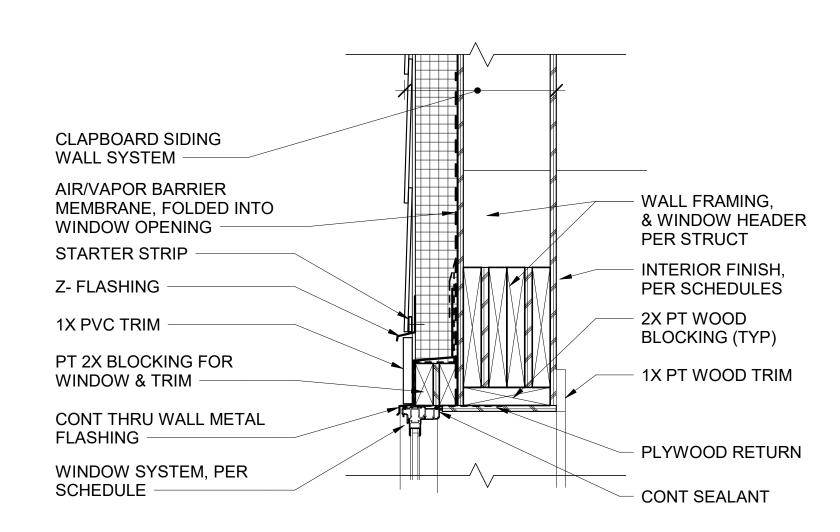
NO. DATE
DESCRIPTION
BY NO.

231 Main Street, Biddeford, Maine 04005

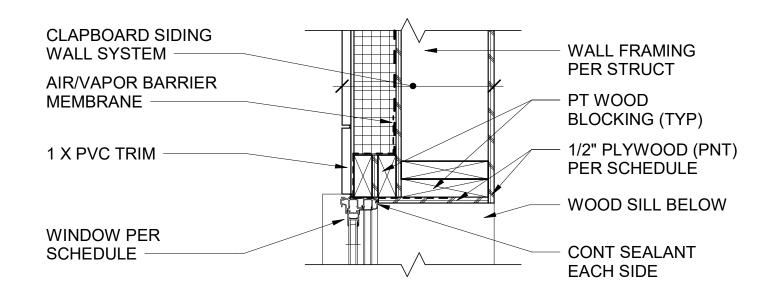
DATE 01/29/2025

**REVISIONS** 

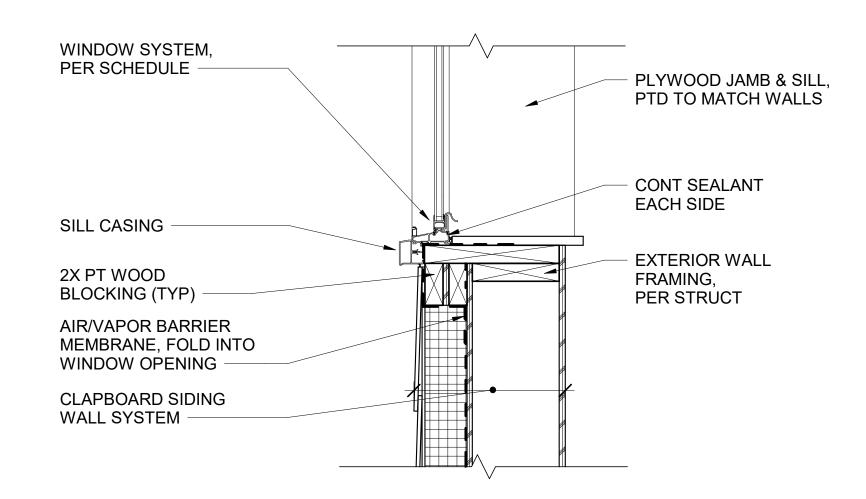
	WINDOW SCHEDULE									
	MATERIAL DETAILS		NOTES							
TYPE	WIDTH	HEIGHT	MAT	FINISH	HEAD	JAMB	SILL	NOTES		
А	4'-10"	4'-0"	ALUM	HPC	1/AE620	2/AE620	3/AE620	FACTORY DOUBLE MULL: BASIS OF DESIGN, MARVIN, ESSENTIAL, ESCATR5020		
В	6'-6"	5'-2"	ALUM	HPC	1/AE620	2/AE620	3/AE620	FACTORY DOUBLE MULL: BASIS OF DESIGN, MARVIN, ESSENTIAL ESDH3050, 3660 DBHG		
С	10'-0"	5'-2"	ALUM	HPC	1/AE620	2/AE620	3/AE620	FACTORY TRIPLE MULL: BASIS OF DESIGN, MARVIN, ESSENTIAL ESDH3050, 3660 DBHG		



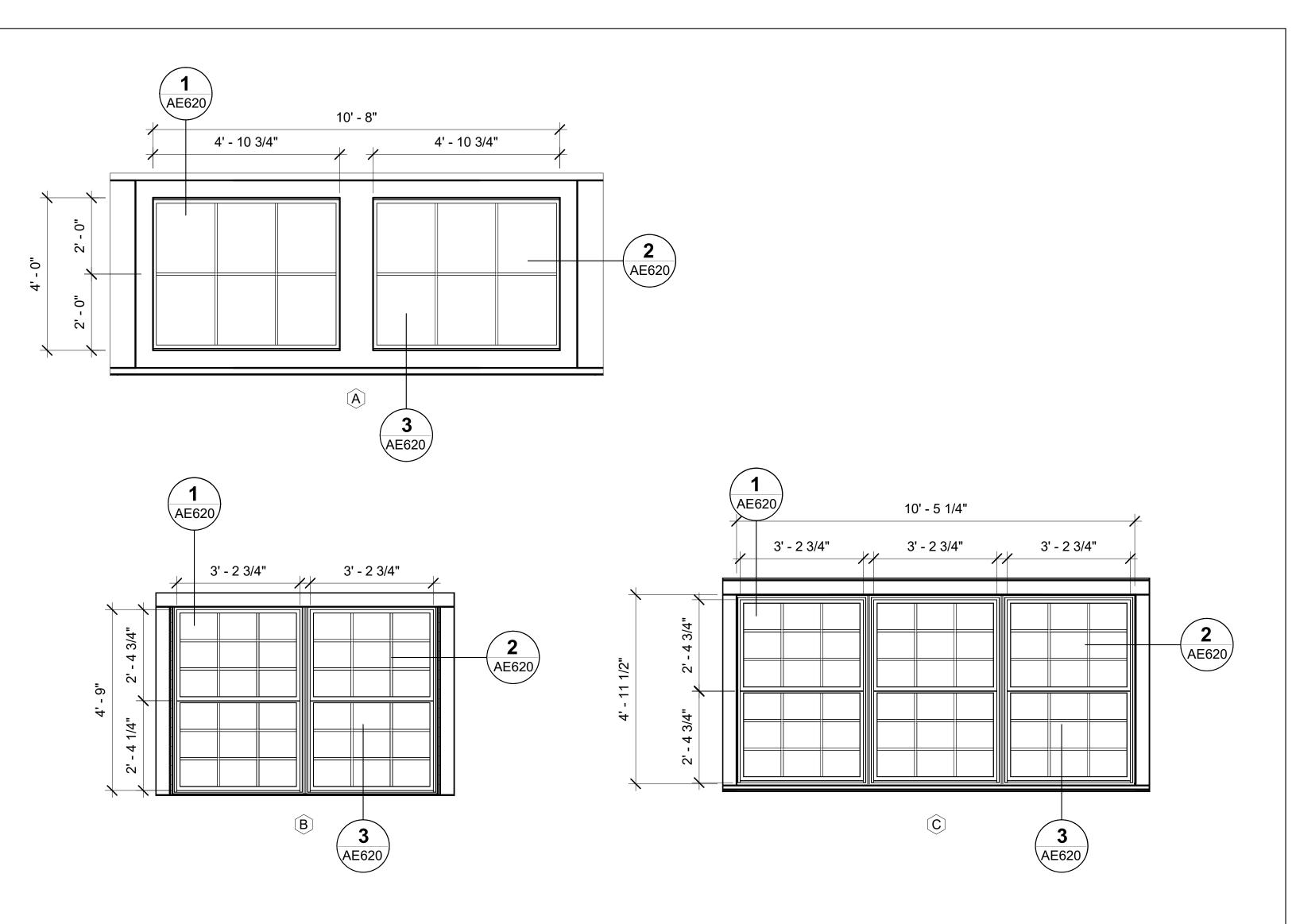
## 1 DETAIL @ WINDOW HEAD AE620 SCALE: 1 1/2" = 1'-0"



## 2 DETAIL@ WINDOW JAMB AE620 SCALE: 1 1/2" = 1'-0"

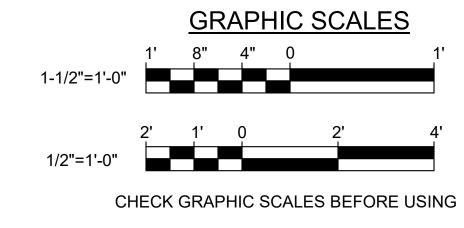


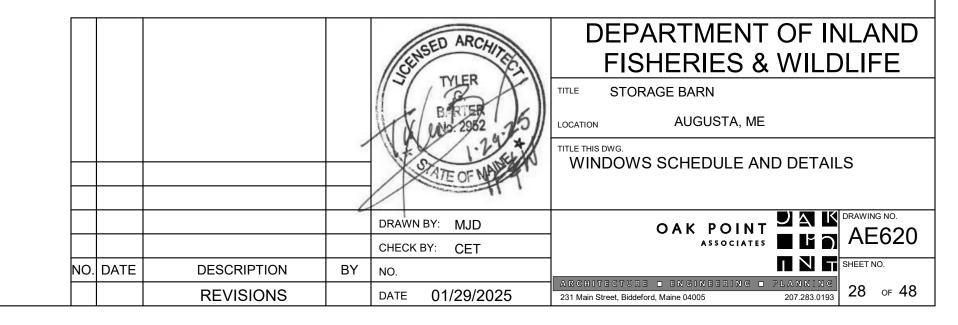
3 DETAIL @ WINDOW SILL
AE620 SCALE: 1 1/2" = 1'-0"

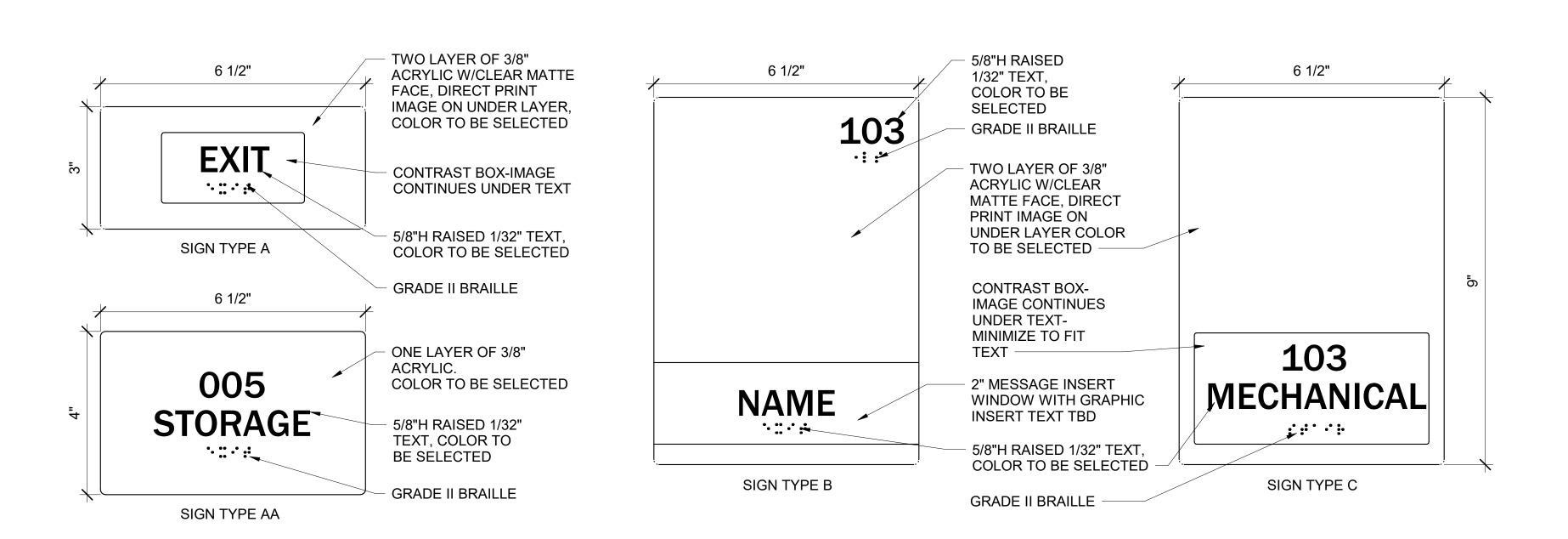


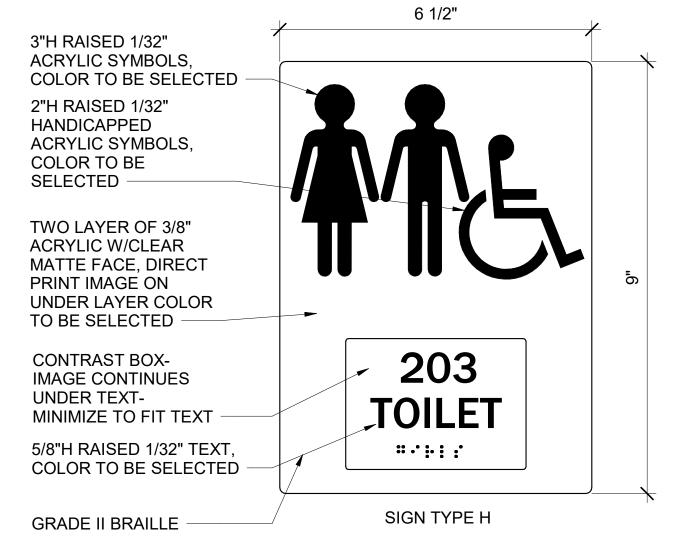
#### **WINDOW TYPES**

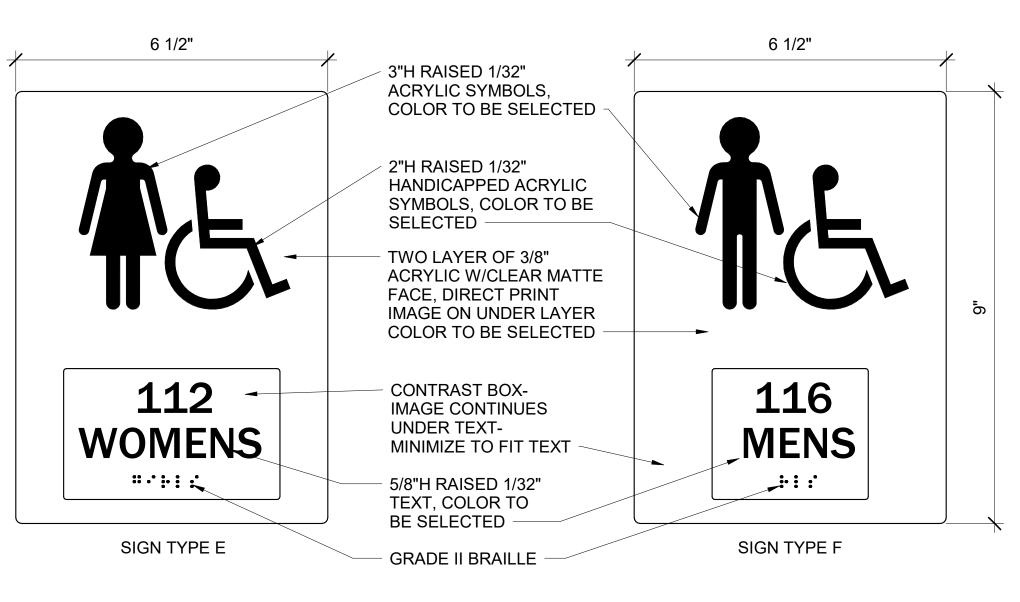
SCALE 1/2" =1'-0"

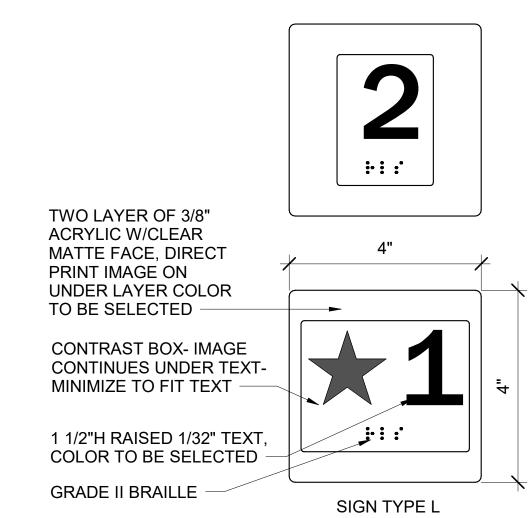












SIGNAGE SCHEDULE-IF&W STORAGE BARN								
DOOR NO.	DESCRIPTION	TYPE	LOCATION	GRAPHICS ON SIGN	NOTES			

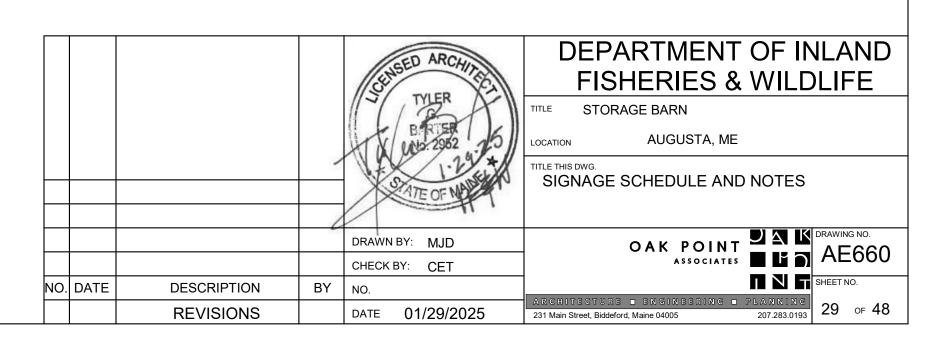
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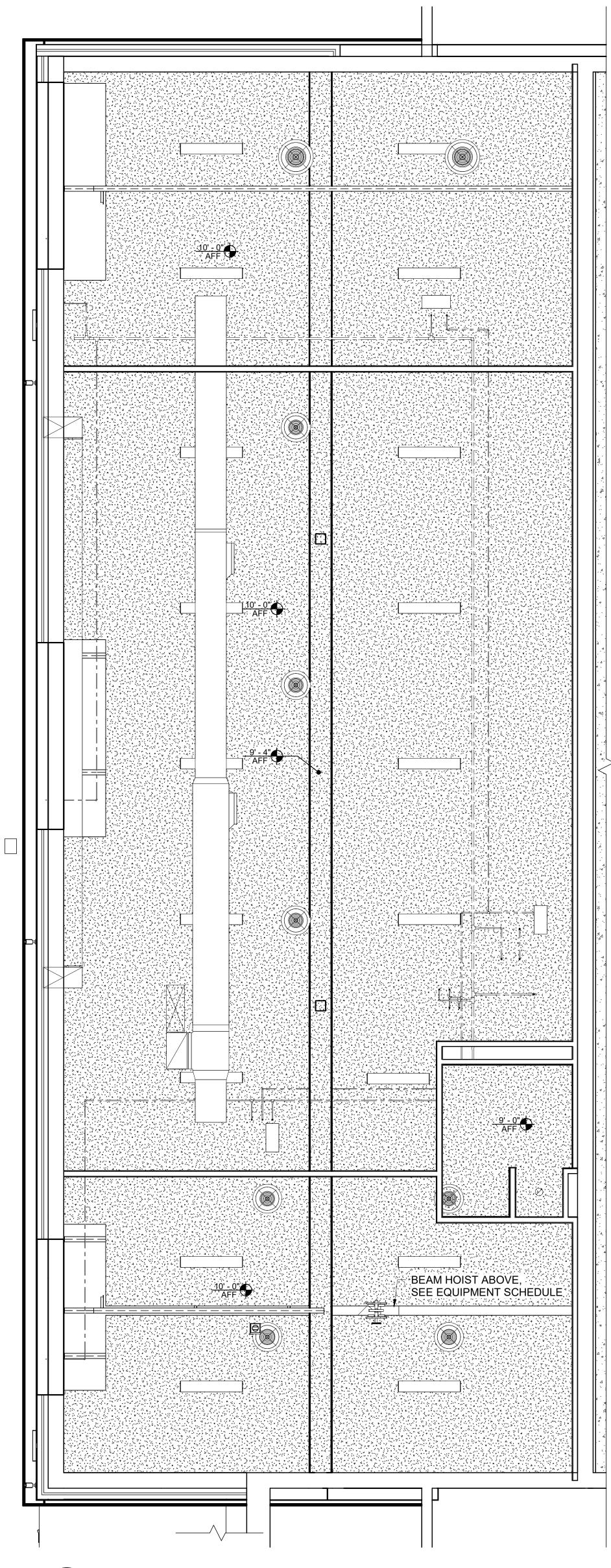
#### SIGNAGE SCHEDULE NOTES:

- PROVIDE SIGN TYPES G AND L AT ELEVATORS.
- 2. VERIFY/COORDINATE ADDRESS NUMBERS WITH OWNER.
- 3. SEE SHEETS AEXXX AND AEXXX FOR LOCATIONS OF SIGN TYPE J, K, M & N.

#### GENERAL NOTES:

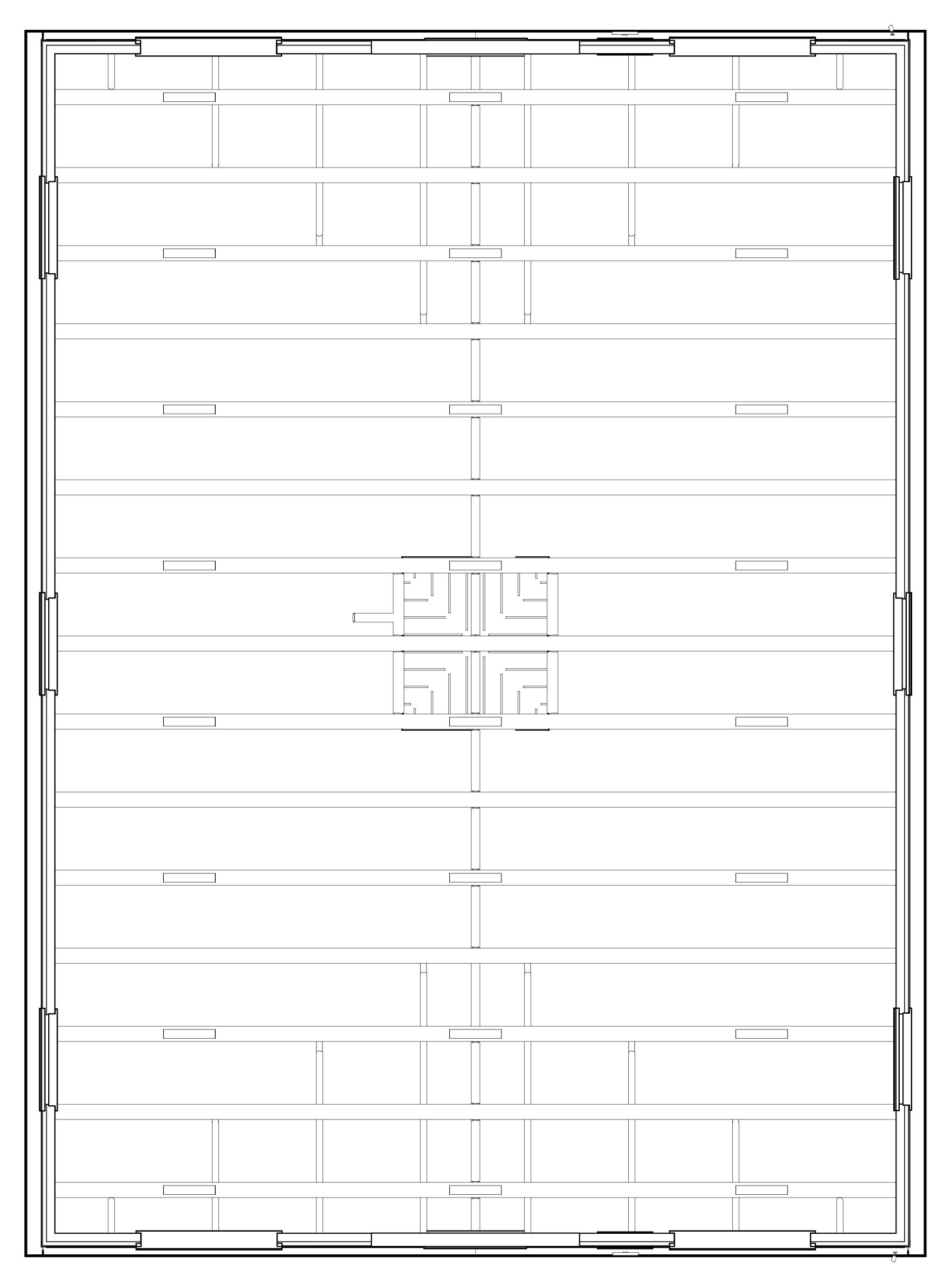
- 1. MOUNT SIGNS FOR SINGLE DOORS ON CORRIDOR WALL, LATCH SIDE OF DOOR OR ADJACENT WALL, MIN 3" OUTSIDE OF DOOR SWING, UNLESS OTHERWISE NOTED.
- 2. MOUNT SIGNS FOR DOUBLE DOORS ON CORRIDOR WALL, TO THE RIGHT OF THE DOOR OR ADJACENT WALL, MIN 3" OUTSIDE OF DOOR SWING, UNLESS OTHERWISE
- 3. MOUNTING HEIGHT FOR ALL SIGNS IS 48" FROM FINISHED FLOOR TO BOTTOM OF SIGN UNLESS OTHERWISE NOTED.
- 4. DOOR NUMBERS NOT LISTED DO NOT RECEIVE SIGNAGE UNLESS OTHERWISE NOTED.
- 5. SEE AE661 FOR A CONTINUATION OF SIGNAGE DETAILS.



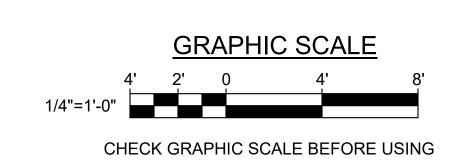


1 BASEMENT FLOOR REFLECTED CEILING PLAN

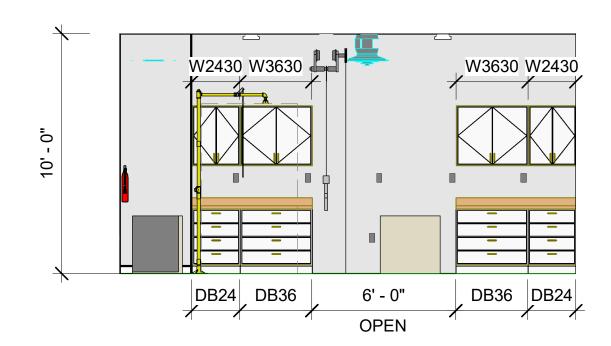
AE701 SCALE: 1/4" = 1'-0"







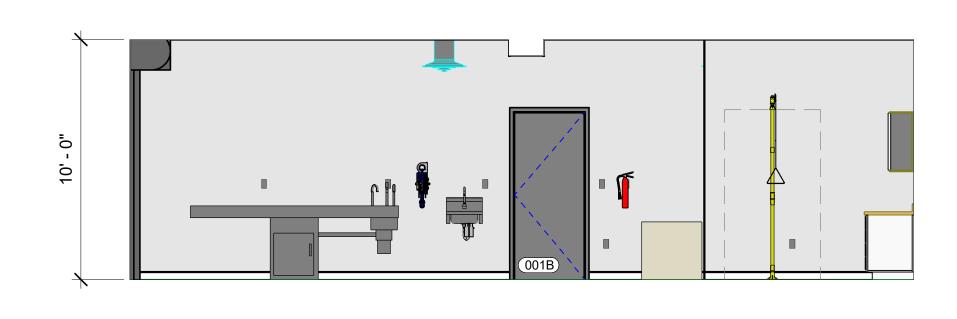
			,	TYLER  BETTER  BETTER  ATTE OF NAME  ATTE OF NAME  BY THE OF N	DEPARTMENT OF INLAND FISHERIES & WILDLIFE  TITLE STORAGE BARN LOCATION AUGUSTA, ME  TITLE THIS DWG. REFLECTED CEILING PLANS
				DRAWN BY: MJD	OAK POINT PAIN AE701
				CHECK BY: CET	
NO.	. DATE	DESCRIPTION	BY	NO.	SHEET NO.
		REVISIONS		DATE 01/29/2025	231 Main Street, Biddeford, Maine 04005 207.283.0193 30 OF 48



1 WILDLIFE NECROPSY LAB 001 EAST ELEVATION

AE740 SCALE: 1/4" = 1'-0"

NOTE: UNDER CABINET LIGHTING FOR EACH UPPER CABINET



2 WILDLIFE NECROPSY LAB 001 NORTH ELEVATION

AE740 SCALE: 1/4" = 1'-0"



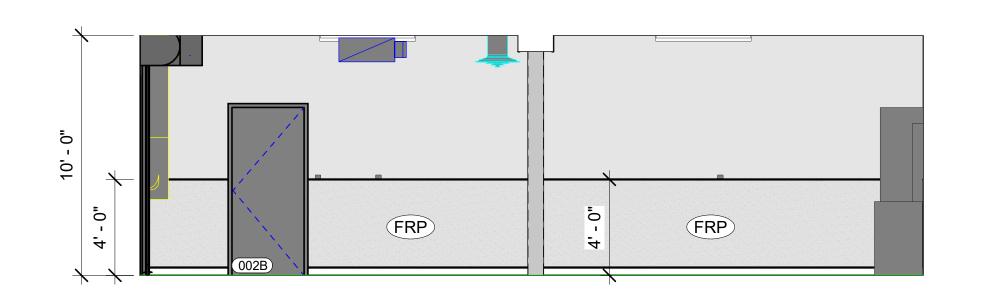
3 WILDLIFE NECROPSY LAB 001 SOUTH ELEVATION

AE740 SCALE: 1/4" = 1'-0"



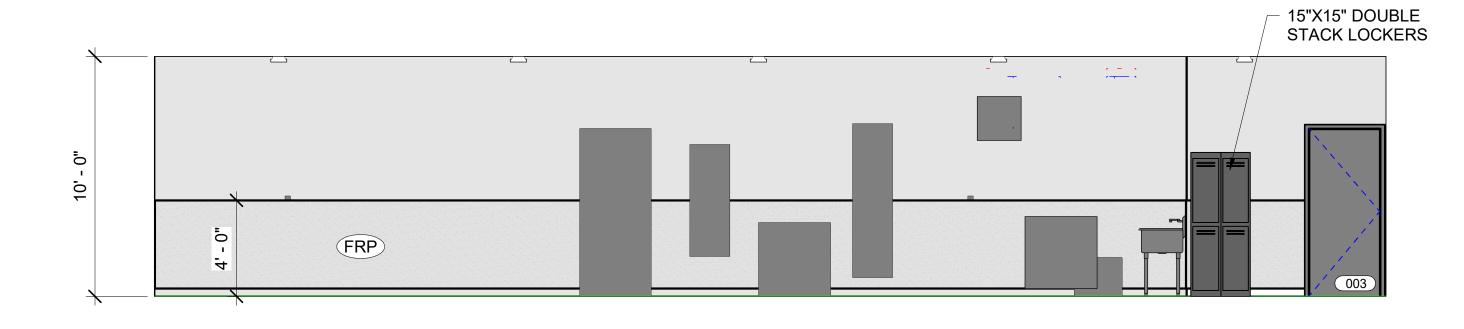
4 WILDLIFE NECROPSY LAB 001 WEST ELEVATION

AE740 SCALE: 1/4" = 1'-0"



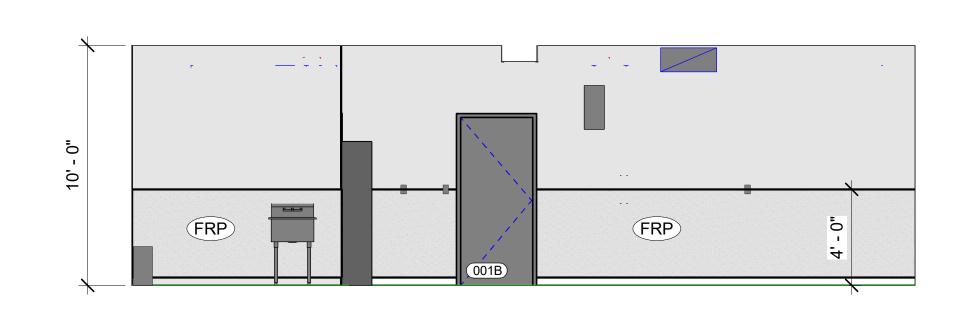
5 HEATED STORAGE 002 NORTH ELEVATION

AE740 SCALE: 1/4" = 1'-0"

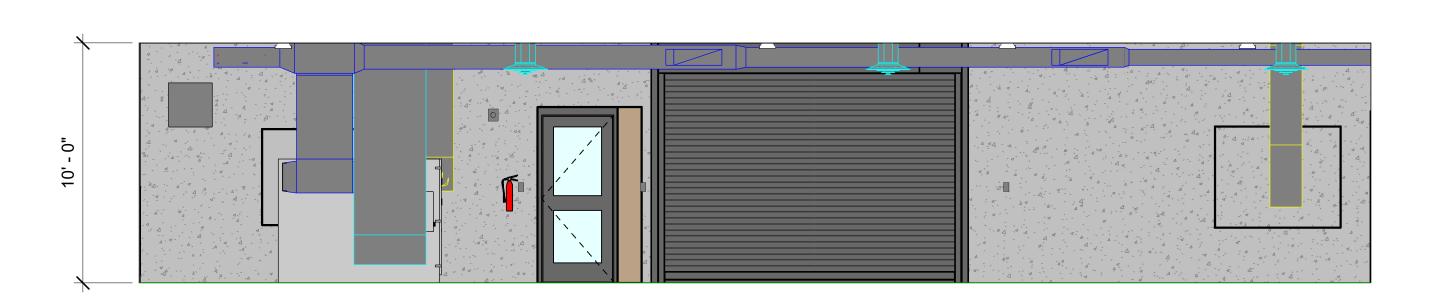


6 HEATED STORAGE 002 EAST ELEVATION

AE740 SCALE: 1/4" = 1'-0"



7 HEATED STORAGE 002 SOUTH ELEVATION AE101 AE740 SCALE: 1/4" = 1'-0"



8 HEATED STORAGE WEST ELEVATION

	ROOM FINISH SCHEDULE												
					WALLS			CEIL	ING	WINDOW			
NO.	ROOM NAME	FLOOR	BASE	NORTH	EAST WALL	SOUTH WALL	WEST WALL	MATERIAL	HEIGHT	SHADES	NOTES		
001	WILDLIFE NECROPSY LAB	EPOXY COATING ON CONCRETE, PROVIDE NON SKID GRIT	APPLIED VINYL COVE, BASIS OF DESIGN: ALTRO	EPOXY COATING	EPOXY COATING	EPOXY COATING ON CONCRETE	EPOXY COATING ON CONCRETE	GYP/P	10'-0"	N/A			
002	HEATED STORAGE	GRIND AND SEAL CONCRETE, INCLUDE DENSIFIER	APPLIED VINYL COVE, BASIS OF DESIGN: ALTRO	FRP WAINSCOTT, GYP/P ABOVE	FRP WAINSCOTT, GYP/P ABOVE	FRP WAINSCOTT, GYP/P ABOVE	SEALED CONC	GYP/P	10'-0"	N/A			
003	TOILET	GRIND AND SEAL CONCRETE, INCLUDE DENSIFIER	APPLIED VINYL COVE, BASIS OF DESIGN: ALTRO	FRP,BASIS OF DESIGN CRANE FRP WHITE, PEBBLED	FRP	FRP	FRP	GYP/P	10'-0"	N/A			
004	MAINTENANCE BAY	GRIND AND SEAL CONCRETE, INCLUDE DENSIFIER	APPLIED VINYL COVE, BASIS OF DESIGN: ALTRO	SEALED CONCRETE O	FRP WAINSCOTT, GYP/P ABOVE	FRP WAINSCOTT, GYP/P ABOVE	SEALED CONC	GYP/P	10'-0"	N/A			
101A	STAND ALONE STORAGE	GRIND AND SEAL CONCRETE, INCLUDE DENSIFIER	APPLIED VINYL COVE, BASIS OF DESIGN: ALTRO	PLYWOOD, B-GRADE OR BETTER, CLEAR SATIN POLYURETHANE BOTH SIDES	PLYWOOD, CLEAR SATIN	PLYWOOD, CLEAR SATIN	PLYWOOD CLEAR SATIN	WOOD ROOF DECKING	VAULTED	N/A			
101B	STAND ALONE STORAGE	GRIND AND SEAL CONCRETE, INCLUDE DENSIFIER	APPLIED VINYL COVE, BASIS OF DESIGN: ALTRO	PLYWOOD, B-GRADE OR BETTER, CLEAR SATIN POLYURETHANE BOTH SIDES	PLYWOOD, CLEAR SATIN	PLYWOOD, CLEAR SATIN	PLYWOOD, CLEAR SATIN	WOOD ROOF DECKING	VAULTED	N/A			
101C	CORRIDOR	GRIND AND SEAL CONCRETE, INCLUDE DENSIFIER	APPLIED VINYL COVE, BASIS OF DESIGN: ALTRO	PLYWOOD, B-GRADE OR BETTER, CLEAR SATIN POLYURETHANE BOTH SIDES	PLYWOOD, CLEAR SATIN	PLYWOOD, CLEAR SATIN	PLYWOOD, CLEAR SATIN	WOOD ROOF DECKING	VAULTED	N/A			

GENERAL NOTES:

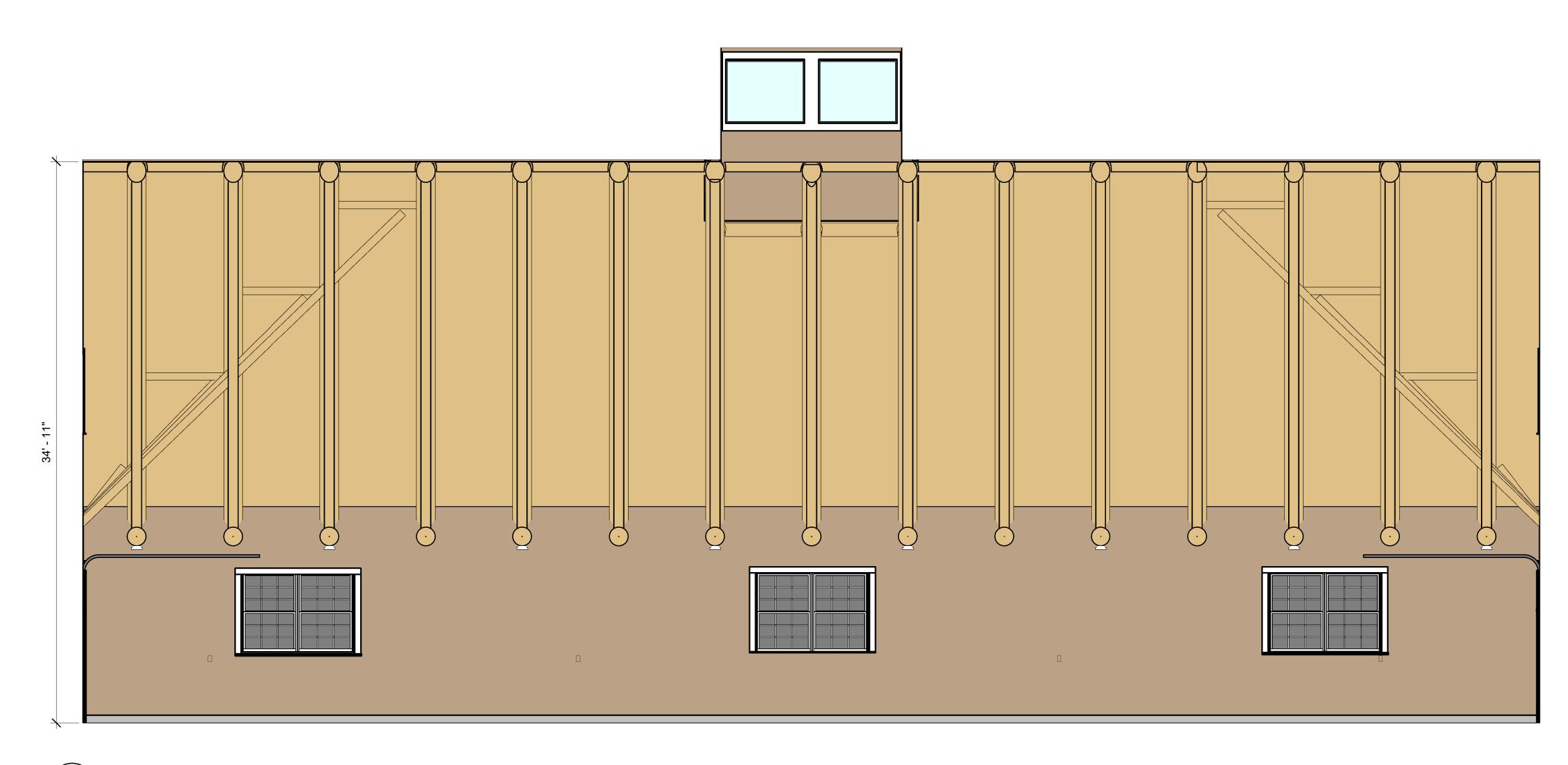
1. PROVIDE SAMPLE FINISH OF CONCRETE SEALER FOR ARCH REVIEW & APPROVAL. LOCATE IN AREA TO BE COVERED.

2. PROVIDE SAMPLE OF PLYWOOD & FINISH FOR ARCH REVIEW & APPROVAL.

3. PROVIDE SUBMITTAL FOR ARCH & CLIENT REVIEW AND APPROVAL FOR PAINT COLOR, TYPE, & SHEEN BY LOCATION. 4. PROVIDE SUBMITTAL FOR ARCH & CLIENT REVIEW AND APPROVAL FOR COVE BASE.

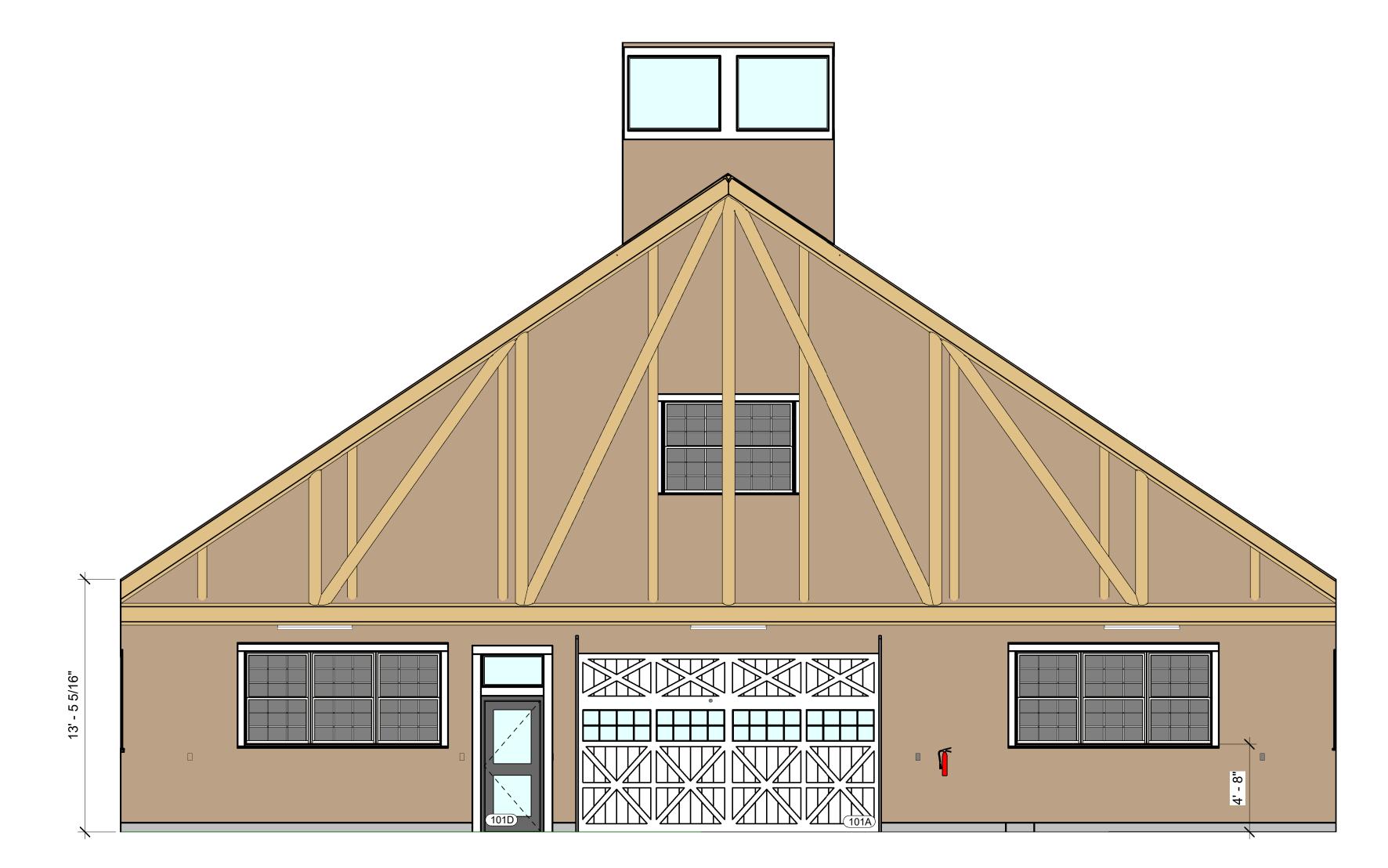
CHECK GRAPHIC SCALE BEFORE USING

				SED ARCHI	DEPARTMENT OF INLAND
				SENSON TO THE	FISHERIES & WILDLIFE
					TITLE STORAGE BARN
				V W 2962 15	LOCATION AUGUSTA, ME
			-	1.2	TITLE THIS DWG. INTERIOR ELEVATIONS 1 & ROOM FINISH
				ATE OF N	SCHEDULE
			1		
			157.64	DRAWN BY: MJD	OAK POINT DAM RE740
				СНЕСК ВҮ: СЕТ	ASSOCIATES ALIAU
NO	. DATE	DESCRIPTION	BY	NO.	SHEET NO.
		REVISIONS		DATE 01/29/2025	231 Main Street, Biddeford, Maine 04005 207.283.0193 31 of 48



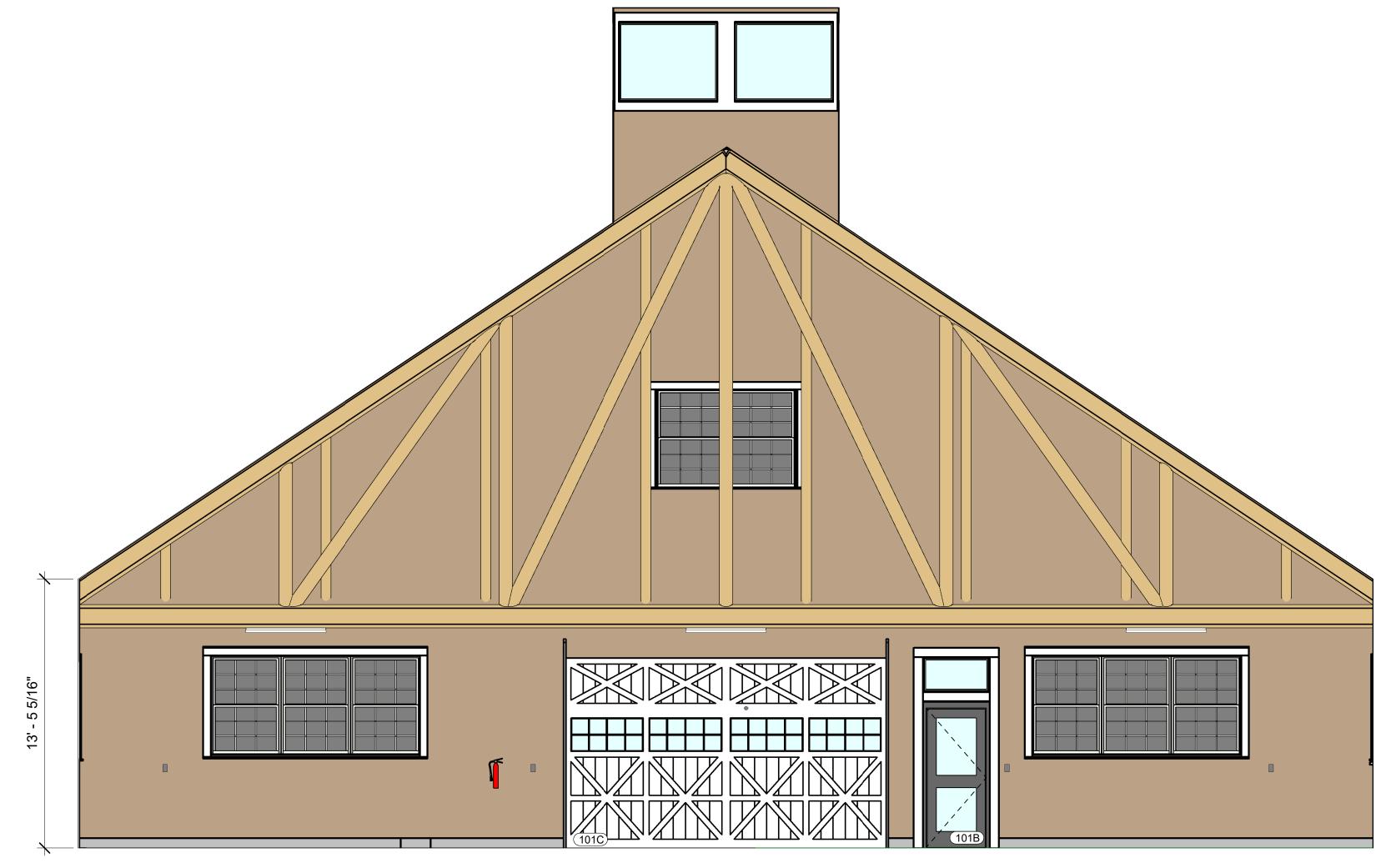
1 STAND ALONE STORAGE 101 EAST ELEVATION

AE741 SCALE: 1/4" = 1'-0"

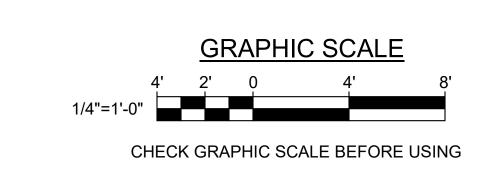


2 STAND ALONE STORAGE 101 SOUTH ELEVATION

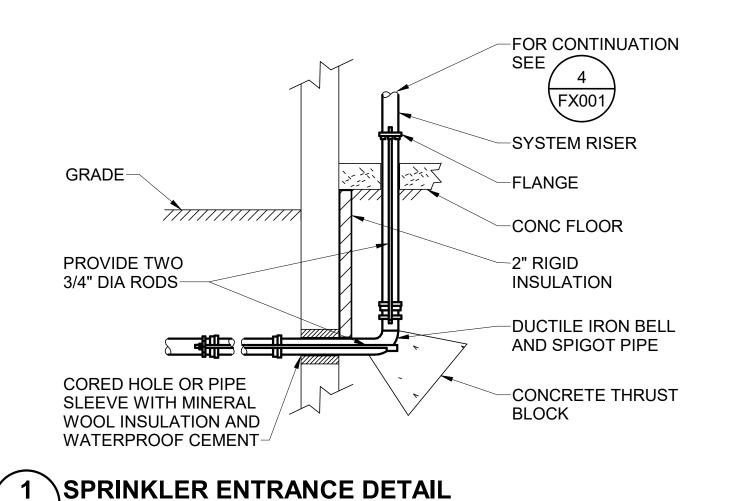
AE741 SCALE: 1/4" = 1'-0"

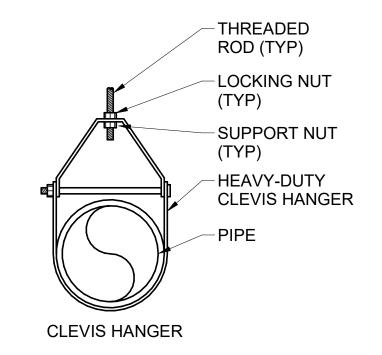


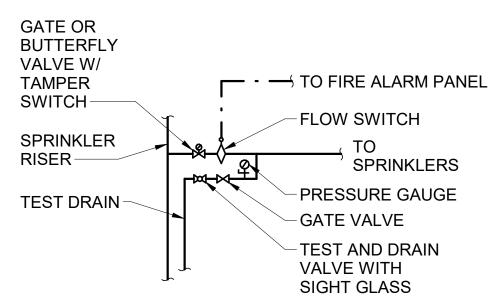
3 STAND ALONE STORAGE 101 NORTH ELEVATION
AE741 SCALE: 1/4" = 1'-0"



				TYLER  B. R. S.R.  Who. 2962  S.A.TE OF NIMER	DEPARTMENT FISHERIES &  TITLE STORAGE BARN LOCATION AUGUSTA, ME  TITLE THIS DWG. INTERIOR ELEVATIONS 2	WILDLIFE
			5-50	DRAWN BY: MJD	OAK POINT	DAM DRAWING NO. AE741
				CHECK BY: CET	ASSOCIATES	AE/4
NO.	DATE	DESCRIPTION	BY	NO.		SHEET NO.
		REVISIONS		DATE 01/29/2025	ARCHITECTURE ■ ENGINEERING ■ P 231 Main Street, Biddeford, Maine 04005	207.283.0193 32 OF 48

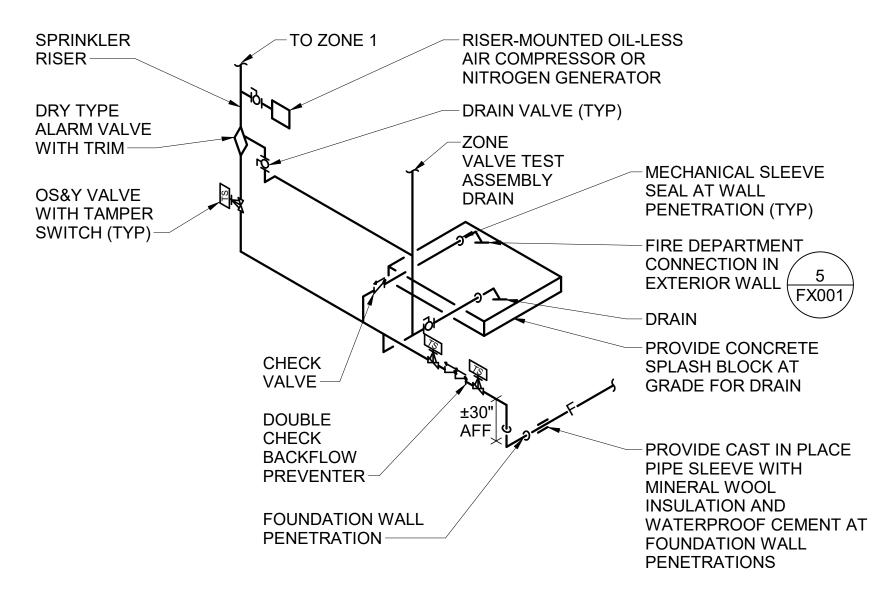


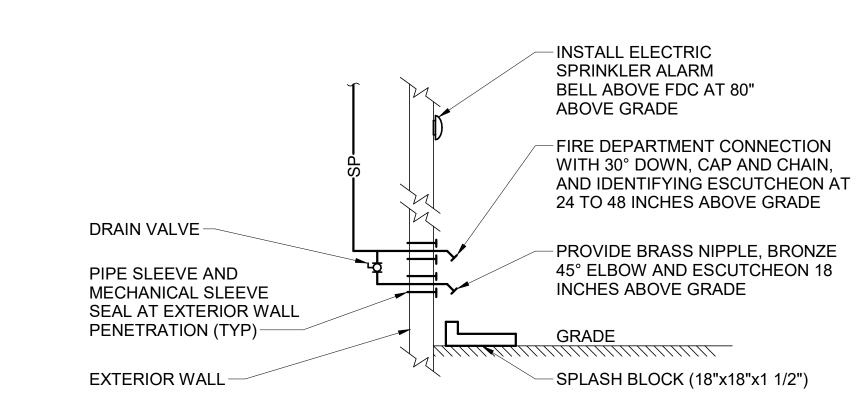




✓ 2 \PIPE HANGER ATTACHMENT DETAIL FX001 SCALE: NTS

**√** 3 **\TYPICAL ZONE VALVE TEST ASSEMBLY** FX001 SCALE: NTS





**\WET ALARM VALVE PIPING SCHEMATIC** 

FX001 SCALE: NTS

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5 \FIRE DEPARTMENT CONNECTION DETAIL FX101 SCALE: NTS

#### FIRE SUPPRESSION ABBREVIATIONS

ABOVE FINISHED FLOOR BLDG BUILDING CLG CEILING DIA DIAMETER DN DOWN

DWG DRAWING

**ELEV ELEVATION** DEGREES FAHRENHEIT FDC FIRE DEPARTMENT CONNECTION

FINISH FLOOR FLOOR FOOT/FEET

GPM **GALLONS PER MINUTE** 

**INCHES** INV INVERT MIN MINIMUM

NATIONAL FIRE PROTECTION ASSOCIATION OS&Y

**OUTSIDE SCREW & YOKE** PSI POUNDS PER SQUARE INCH

SPRINKLER TYP **TYPICAL** 

#### WITH

FIRE SUPPRESSION SYMBOLS LEGEND **KEY NOTE** 

SPRINKLER FLOW SWITCH

VALVE WITH TAMPER SWITCH

FIRE DEPARTMENT CONNECTION

 $\bigcirc$ **ALARM BELL** 

ELBOW DOWN

PIPE TEE UP OR UP AND DOWN

← ELBOW UP OR UP AND DOWN

GATE VALVE

PIPE TEE DOWN

STRAINER

——— CHECK VALVE

————— DOUBLE CHECK DETECTOR VALVE

TEST AND DRAIN VALVE W/ SIGHT GLASS

WET-PIPE ALARM VALVE

PRESSURE GAGE

UPRIGHT SPRINKLER

PENDANT SPRINKLER

SIDEWALL SPRINKLER

#### FIRE SUPPRESSION LINE TYPE LEGEND

OS&Y VALVE WITH TAMPER SWITCH

REMOVE ITEMS PROVIDE ITEMS WET SPRINKLER FIRE ALARM WIRE CONTROL WIRING

#### FIRE SUPPRESSION GENERAL NOTES

- 1. PROVIDE HYDRAULICALLY CALCULATED DRY PIPE SPRINKLER SYSTEMS IN ACCORDANCE WITH NFPA 13, CURRENTLY ADOPTED EDITION, FOR ORDINARY HAZARD (GROUP 1) OCCUPANCY UNLESS OTHERWISE INDICATED ON PLANS.
- 2. FOR BIDDING PURPOSES, HYDRANT FLOW DATA FOLLOWS:

TEST DATE: APRIL 24, 2024, 10:00 AM TEST HYDRANT: HYD 1 - ON CORNER OF BLOSSOM LANE ACROSS

FROM MARQUARDT BUILDING RESIDUAL HYDRANT: HYD 2 - ON BLOSSOM LANE ACROSS FROM MARQUARDT BUILDING

HYD 1 STATIC PRESSURE: 105 PSI HYD 1 ELEVATION: 136.77 FT HYD 1 FLOW: 1206 GPM

**HYD 2 STATIC PRESSURE: 80 PSI** HYD 2 ELEVATION: 188.02 FT HYD 2 RESIDUAL PRESSURE: 48 PSI

CONTRACTOR SHALL PERFORM HYDRANT FLOW TEST AT SITE TO USE AS A BASIS FOR SPRINKLER SYSTEM DESIGN.

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING PLANS AND MECHANICAL PLANS FOR CEILING TYPES, SOFFITS, FEATURES, AND COORDINATE WITH THIS WORK IN CEILINGS TO PREVENT INTERFERENCES.

5. COORDINATE ALARM DEVICES WITH FIRE ALARM PLANS.

PROVIDE QUICK RESPONSE TYPE SPRINKLER HEADS WHERE PERMITTED BY NFPA 13.

SPRINKLERS SHALL BE LOCATED IN A CONSISTENT PATTERN AND AT THE CENTER OF CEILING TILES WHERE TILES ARE PROVIDED.

8. PROVIDE SPRINKLERS BELOW DUCTWORK AND SIMILAR **OBSTRUCTIONS IN COMPLIANCE WITH NFPA 13.** 

PROVIDE WIRE GUARDS FOR SPRINKLERS WHERE THERE IS LESS THAN 7'-0" CLEARANCE BELOW AND WHERE INDICATED ON DRAWINGS.

10. PIPING IS SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. COORDINATE IN FIELD WITH FIRE ALARM. MECHANICAL PIPING AND DUCTWORK, AND ELECTRICAL TRADES.

11. PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILINGS, IN WALLS AND IN CHASES, UNLESS OTHERWISE NOTED. PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.

SHALL BE SUPPORTED FROM TOP CHORD OF JOISTS. NO STRUCTURAL MEMBERS SHALL BE CUT.

12. PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE. PIPING

13. INSTALL WATER PIPE ON THE WARM SIDE OF BUILDING INSULATION IN EXTERIOR WALLS. REFER TO ARCHITECTURAL WALL SECTIONS.

14. REFER TO SHEETS AE220 TO AE223 FOR BUILDING SECTIONS.

15. REFER TO ARCHITECTURAL FLOOR PLANS ON SHEETS AE101 TO AE108 FOR FIRE EXTINGUISHER LOCATIONS.

16. REFER TO FIRE RATING PLANS ON SHEETS G-102 TO G-108 FOR LOCATIONS OF RATED WALLS AND FLOORS.

17. REFER TO SHEET AE520 FOR DETAILS OF PENETRATIONS THROUGH RATED CONSTRUCTION.

MATTHEW S. ALBERT DRAWN BY: SRW

DATE 01/29/2025

REVISIONS

FIRE SUPRRESSION LEGENDS, ABBREVIATIONS, GENERAL NOTES, AND DETAILS OAK POINT ASSOCIATES FX001 CHECK BY: MSA SHEET NO DESCRIPTION

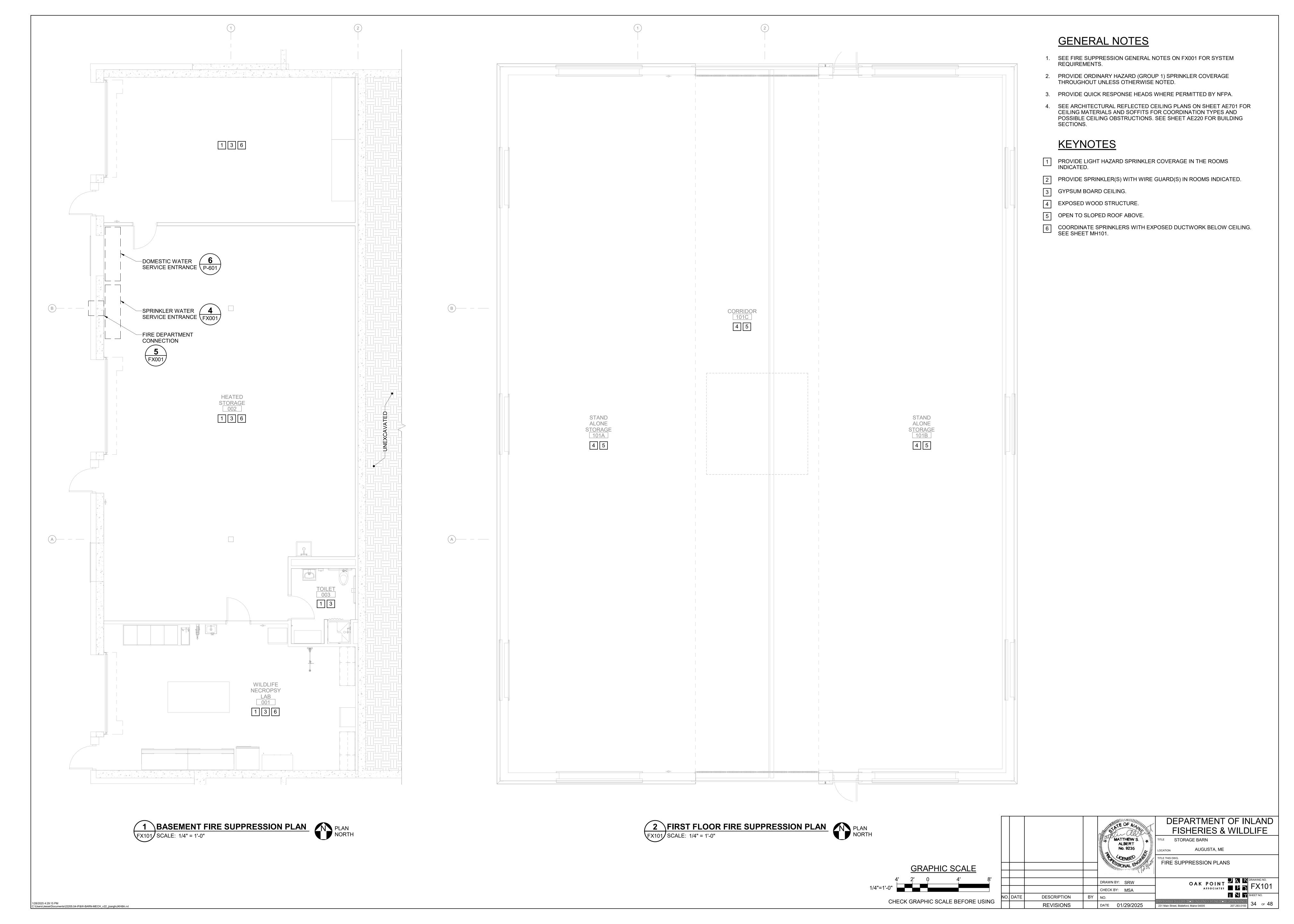
231 Main Street, Biddeford, Maine 04005

STORAGE BARN

DEPARTMENT OF INLAND

FISHERIES & WILDLIFE

AUGUSTA, ME



#### PLUMBING ABBREVIATIONS

MIN

MTL

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MR

MINIMUM

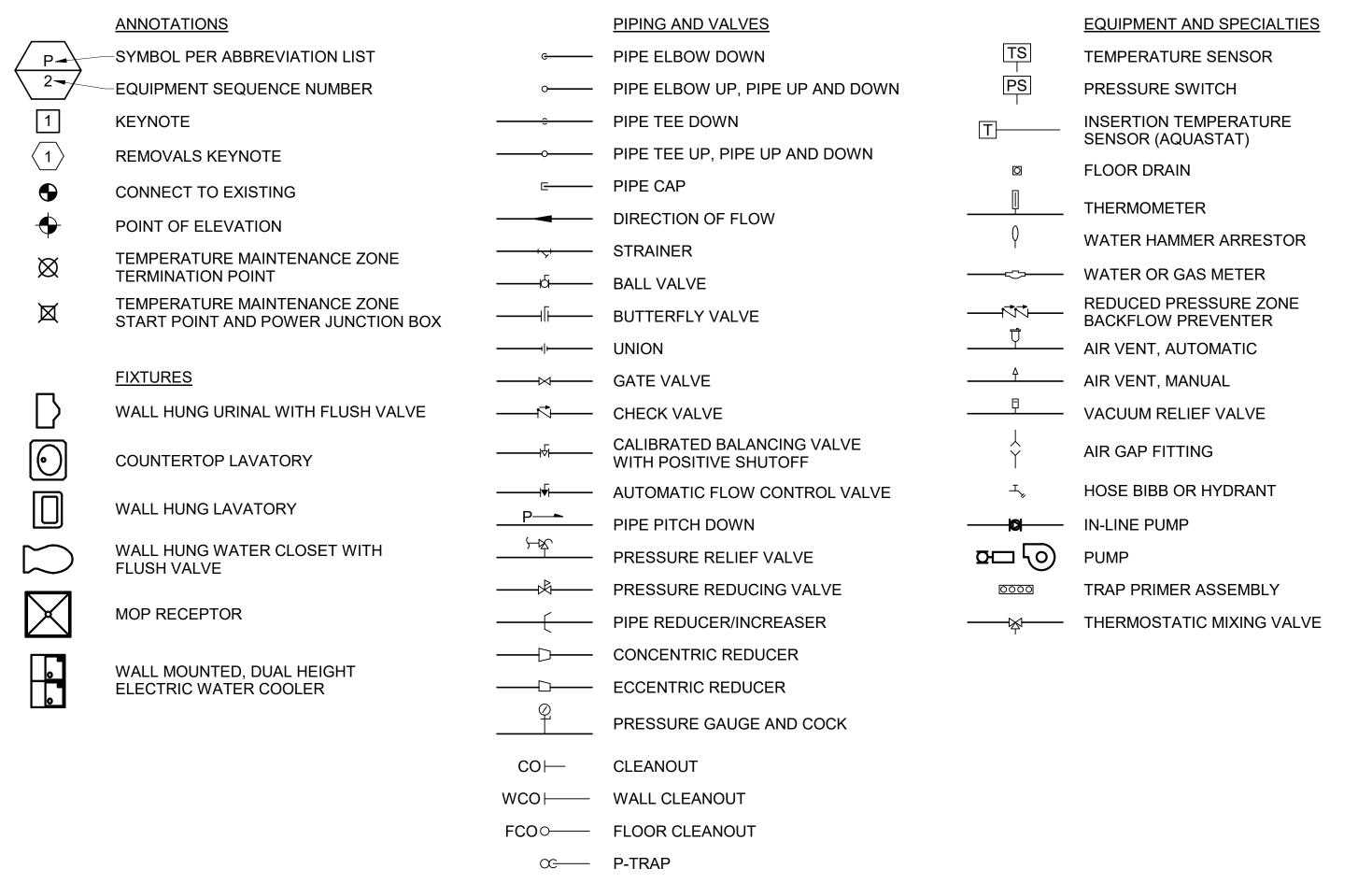
METAL

MOUNTING

MOP RECEPTOR

		•	
DA	AMERICANS WITH DISABILITIES ACT	N/A	NOT APPLICABLE
FF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
HU	AIR HANDLING UNIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
FP	BACKFLOW PREVENTER	NFWH	
			NON-FREEZE WALL HYDRANT
Р	PACKAGED BOOSTER PUMP	NO	NUMBER, NORMALLY OPEN
D	CONDENSATE DRAIN	NPT	NATIONAL PIPE THREAD
• •	CENTERLINE	NTS	NOT TO SCALE
LG	CEILING	OC	ON CENTER
O	CLEANOUT	OD	OUTSIDE DIAMETER
ONN	CONNECTION	Р	PUMP, PITCH, PRESSURE
ONC	CONCRETE	PC	PUMPED CONDENSATE
OND	CONDENSATE	PDI	PLUMBING DRAINAGE INSTITUTE
:W	COLD WATER	PEX	CROSS-LINKED POLYETHYLENE
, DIA	DIAMETER	PRESS	PRESSURE
, DIA N	DOWN	PRV	PRESSURE REDUCING VALVE
P	DROP		
		PSI	POUNDS PER SQUARE INCH
WG	DRAWING	PSIG	POUNDS PER SQUARE INCH GAUGE
WH	DUAL WALL HYDRANT	QTY	QUANTITY
LEC	ELECTRIC/ELECTRICAL	R	RADIUS
LEV	ELEVATION, ELEVATOR	RD	ROOF DRAIN
WC	ELECTRIC WATER COOLER	REQ'D	REQUIRED
WH	ELECTRIC WATER HEATER	RM	ROOM
XIST	EXISTING	RPM	REVOLUTIONS PER MINUTE
XT	EXPANSION TANK	RPZ	REDUCED PRESSURE ZONE
=	DEGREES FAHRENHEIT	S	SINK, SANITARY
CO	FLOOR CLEANOUT	SAN	SANITARY
D	FLOOR DRAIN	SF	SQUARE FOOT/FEET
- F	FINISHED FLOOR	SIM	SIMILAR
LR	FLOOR	SP	SUMP PUMP, SPRINKLER
T	FOOT, FEET	SQ	SQUARE
<u>.</u>	GAS	SS	STAINLESS STEEL
; SAL		ST	
	GALLONS DEPLICUE		STORM DRAIN
SPH SPM	GALLONS PER HOUR	STL	STEEL
PM	GALLONS PER MINUTE	TEMP	TEMPERATURE
20	WATER	TM	DOMESTIC HOT WATER TEMPERATURE
B	HOSE BIBB		MAINTENANCE ZONE
P	HORSEPOWER	TMV	TEMPERATURE MIXING VALVE
VAC	HEATING, VENTILATION, AND AIR	TP	TRAP PRIMER ASSEMBLY
	CONDITIONING	TYP	TYPICAL
W	HOT WATER	U	URINAL
)	INSIDE DIAMETER	UL	UNDERWRITERS LABORATORY
١	INCH, INCHES	V	VENT
٧V	INVERT	VTR	VENT TO ROOF
V	INDIRECT WASTE	W	WASTE
AN	JANITOR (SINK)	W&T	WASTE AND TRAP
W	KILOWATT, KITCHEN WASTE	W/	WITH
. • •	LAVATORY	WC	WATER COLUMN
F	LINEAR FEET	WCO	WATER COLONIA WALL CLEANOUT
P, LPG	LIQUIFIED PETROLEUM GAS	WH	WALL CLEANOOT WALL HYDRANT, WATER HEATER
1, LI G 1	MOTOR	WHA	WALL HIDRANT, WATER HEATER WATER HAMMER ARRESTOR
I I∧∨			
IAX IECU	MAXIMUM	WPD	WATER PRESSURE DROP
IECH	MECHANICAL		

#### PLUMBING SYMBOLS LEGEND



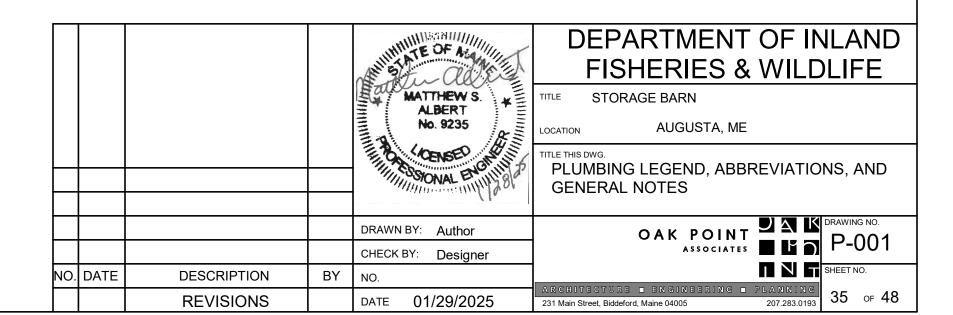
#### PLUMBING LINE TYPE LEGEND

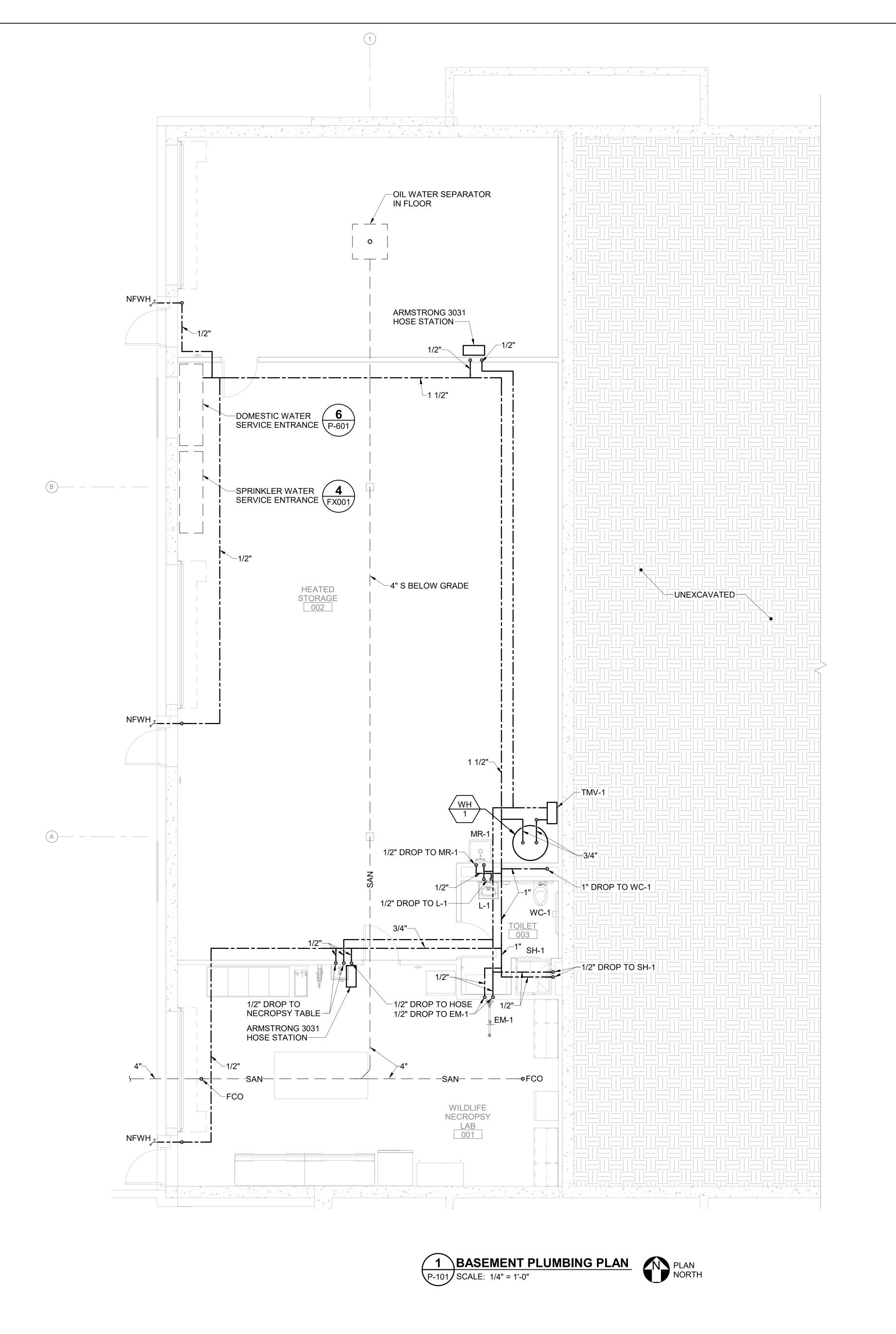
	REMOVE ITEMS
	EXISTING ITEMS TO REMAIN
	PROVIDE ITEMS
S	SOIL PIPE
	WASTE PIPE
SAN	SANITARY SEWER ABOVE FLOOR
SAN	SANITARY SEWER BELOW FLOOR OR GRADE
ST	STORM DRAIN ABOVE FLOOR
ST	STORM DRAIN BELOW FLOOR OR GRADE
OD	STORM DRAINAGE OVERFLOW DRAIN LINE
	CONDENSATE DRAIN ABOVE FLOOR OR GRAD
	VENT
TP	TRAP PRIMER LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER (110°F)
	DOMESTIC HOT WATER RETURN
PW	PUMPED WASTE
G	NATURAL GAS
<b>— · — · — · —</b>	CONTROL WIRING

UNDERSLAB DRAIN LINE

#### GENERAL PLUMBING SYSTEM NOTES

- PLUMBING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (IPC), CURRENT EDITION, AND THE INTERNATIONAL ENERGY AND CONSERVATION CODE (IECC), CURRENT EDITION.
- 2. INSTALL SANITARY DRAINAGE WITH A PITCH OF 1/4 INCH PER FOOT FOR BUILDING SANITARY PIPING 3 INCHES AND SMALLER AND A PITCH OF 1/8 INCH PER FOOT FOR BUILDING SANITARY PIPING 4 INCHES AND LARGER.
- 3. FOR PIPE SIZES NOT SHOWN ON PLANS, REFER TO THE APPROPRIATE PART PLANS, DETAILS, AND RISER DIAGRAMS.
- 4. PIPING IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
- 5. COORDINATE LOCATION OF PIPING WITH WORK OF OTHER TRADES. PERFORM CUTTING WORK ASSOCIATED WITH PLUMBING SYSTEMS.
- 6. PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILINGS, IN WALLS AND IN CHASES, UNLESS OTHERWISE NOTED. PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.
- PROVIDE DRAINS AT DOMESTIC WATER PIPING LOW POINTS AND PITCH PIPING TO LOW POINT DRAINS.
- I OINT BIVAINO.
- 8. INSTALL WATER PIPING ON THE WARM SIDE OF BUILDING INSULATION IN EXTERIOR WALLS.
- 9. PROVIDE WATER HAMMER ARRESTORS (WHA) AS SHOWN ON PLANS AND AS REQUIRED TO AVOID WATER HAMMER. SIZES INDICATED CONFORM TO THE PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARDS.
- 10. PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF STACKS, AT HORIZONTAL CHANGES OF DIRECTION GREATER THAN 45°, AND WHERE SHOWN ON DIAGRAMS.
- 11. PIPING DROPS TO FIXTURES MUST BE ANCHORED SOLID TO WALL WITH STEEL SUPPORT BRACKET WITH ADJUSTABLE CLIP.
- 12. PROVIDE HOSE END VALVES WITH HOSE END VACUUM BREAKERS AND CAPS.

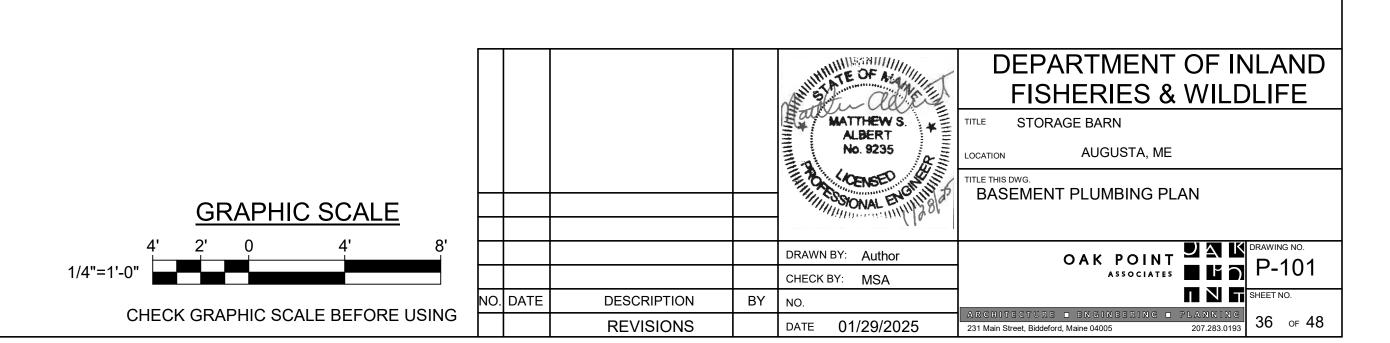




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**KEYNOTES** 

1



TRAP PRIMER ASSEMBLY SCHEDULE													
UNIT NO	LOCATION MOUNTING MANIFO			# OF DESIGN CONNECTIONS	CONNECTION SIZE (IN)	VOLTS / PHASE	I BASIS DE DESIGN						
TPA-1	-	RECESSED	6	5	1/2"	120/1	PRECISION PLUMBING PRODUCTS PT-6	1					

	WATER HEATER SCHEDULE													
UNIT NO	LOCATION	STORAGE GALLONS	CW INLET TEMP °F	HW OUTLET TEMP °F	MIN GPH RECOVERY @ 90°F ΔT	WATTAGE PER ELEMENT	# OF ELEMENTS	TOTAL INPUT KW	VOLTS / PHASE	BASIS OF DESIGN	NOTES			
WH-1	-	28	50	140	16	4500	1	4.5	208 / 1	STATE EN6 DOMS	-			
NOTES:	1.													

	MIXING VALVE SCHEDULE												
UNIT NO	LOCATION	SERVES	INLETS (IN)	OUTLET (IN)	SUPPLY TEMP °F	DESIGN GPM	MIN GPM	PRESSURE DROP (PSIG)	BASIS OF DESIGN	NOTES			
TMV-1	-	DOMESTIC HOT WATER	3/4"	1"	120	20	1.0	10	LEONARD TM-186-520B-LF	1			
NOTES:	1. PROVIDE MANUFA	CTURER'S STAINLESS STEEL, S	SURFACE	MOUNTE	D CABINE	T.							

	DRAIN SCHEDULE											
UNIT NO	TYPE	DESCRIPTION	PIPE SIZE (IN)	STRAINER DIMENSIONS	BASIS OF DESIGN	NOTES						
FD-1	FLOOR DRAIN	SQ DRAIN FOR FINISHED SPACES	3"	6" x 6"	ZURN ZN415-S-P	1						
FD-1	FLOOR DRAIN	ROUND DRAIN WITH IW FUNNEL	3"	7Ø	ZURN ZN415-B-4-Y-P	1						
FD-1	FLOOR DRAIN	ROUND DRAIN FOR UNFINISHED SPACES	3"	7Ø	ZURN ZN415-B-Y-P	1						
NOTES:	PROVIDE TRAP PRIMER CONNECT	ION TO FLOOR DRAIN.										

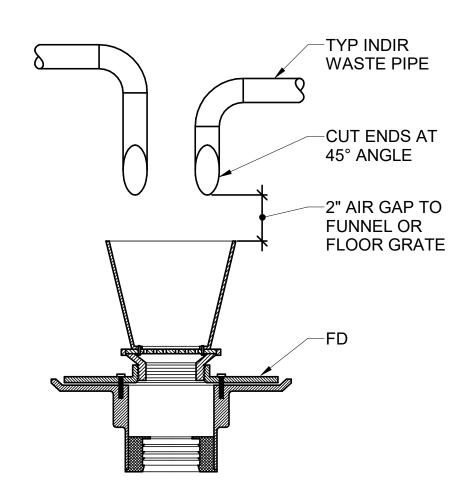
			PI	_UMBII	NG FIX	TURE ROUGH-IN SCHEDULE	
UNIT NO	DESCRIPTION	WASTE (IN)	VENT (IN)	HW (IN)	CW (IN)	REMARKS	NOTES
WC-1	WATER CLOSET	4"	2"	-	1"	WALL MOUNTED, WALL OUTLET, AUTOMATIC FLUSH VALVE, ADULT ADA HEIGHT	1, 2
S-1 S-2	SINK SINK	2"	1 1/2" 1 1/2"	2 @ 1 1/2 1/2"	2 @ 1 1/2 1/2"	SS, 2-STATION, FLOOR MOUNTED, ADA, 2 FAUCETS	2 2
3-2	SIINK		1 1/2	1/2	1/2	SS, FLOOR MOUNTED, MANUAL FAUCET	2
L-1	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	WALL HUNG, ADA, AUTOMATIC FAUCET, GRID STRAINER	1, 2
EWC-1	WATER COOLER	1 1/2"	1 1/2"	-	1/2"	FLOOR MOUNTED, ADA, DUAL HEIGHT, WITH CHILLER UNIT, FILTER, AND INTEGRAL BOTTLE FILLER	1, 2
MR-1	MOP RECEPTOR	3"	1 1/2"	1/2"	1/2"	FLOOR MOUNTED, 32" SQUARE, TERRAZZO, MANUAL FAUCET	2
NFWH	NON-FREEZE WALL HYDRANT	-	-	-	3/4"	NON-FREEZE, KEY OPERATED, RECESSED	-
WH	WALL HYDRANT	-	-	1/2"	-	MILD CLIMATE, KEY OPERATED, SURFACE MOUNTED, NARROW WALL INSTALLATION	-
HB-1	HOSE BIBB	-	-	-	1/2"	SURFACE MOUNTED, WHEEL OPERATOR WITH VACUUM BREAKER	-
HS-1	HOSE STATION	-	-	3/4"	3/4"	WASH DOWN STATION WITH HOSE RACK	-

NOTES: 1. REFER TO SHEETS G-\_\_ AND A-\_\_\_ FOR FIXTURE INSTALLATION HEIGHTS.
2. WHERE VENT CONNECTIONS TO FIXTURE ARE CALLED OUT ON PLANS AND DIAGRAMS TO BE LARGER THAN THE SCHEDULED ROUGH-IN, PROVIDE LARGER SIZE REQUIRED FOR LONG HORIZONTAL VENT LENGTHS OR COMBINATION WASTE AND VENT PIPING.

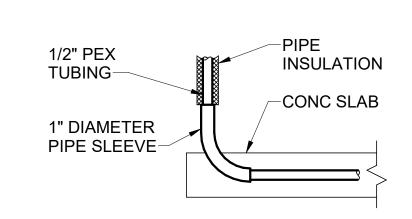
	EXPANSION TANK SCHEDULE												
UNIT NO	LOCATION	SERVES	MIN TANK VOLUME (GAL)	ACCEPTANCE VOLUME	DIMENSIONS	BASIS OF DESIGN	NOTES						
EXT-P1	-	DOMESTIC WATER	10.09	1.52	24 3/4" x 14Ø	TACO PAX 42-150P	1						
NOTES:	1. POTABLE WATER												

		BACKFLOW P			1 3011	LDULL		
UNIT NO	LOCATION	SYSTEM SERVED	TYPE	SIZE	DESIGN FLOW (GPM)	MAX WPD @ DESIGN (PSI)	BASIS OF DESIGN	NOTES
BFP-1	-	HVAC MAKE-UP WATER	RPZ	1 1/4"	20	12	ZURN WILKINS 375 XL	1

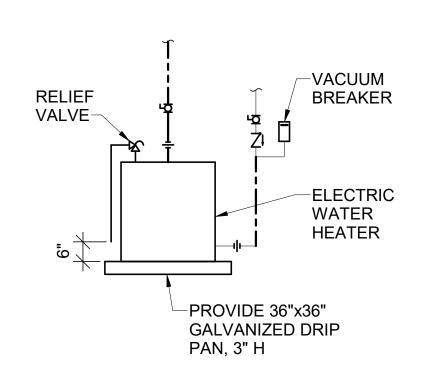
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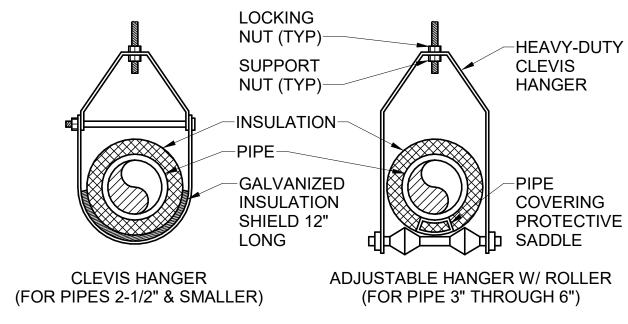




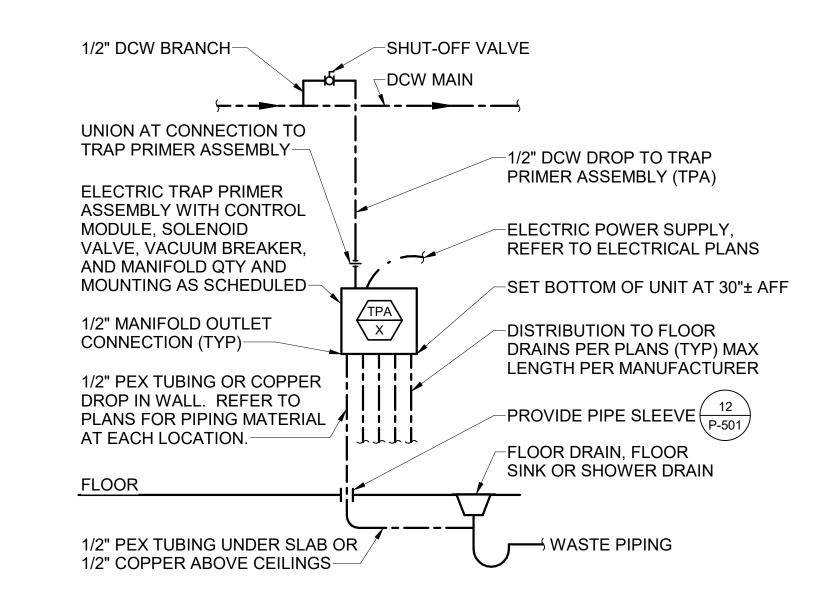




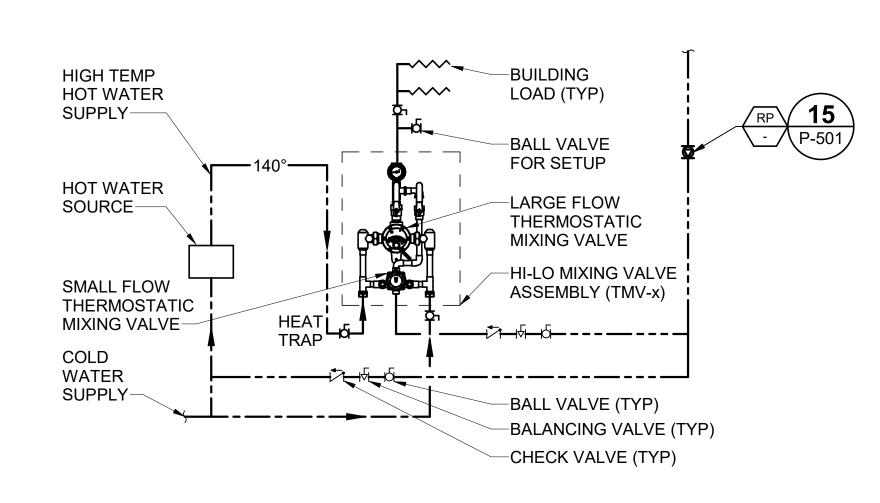
## ELECTRIC WATER P-601 SCALE: NTS



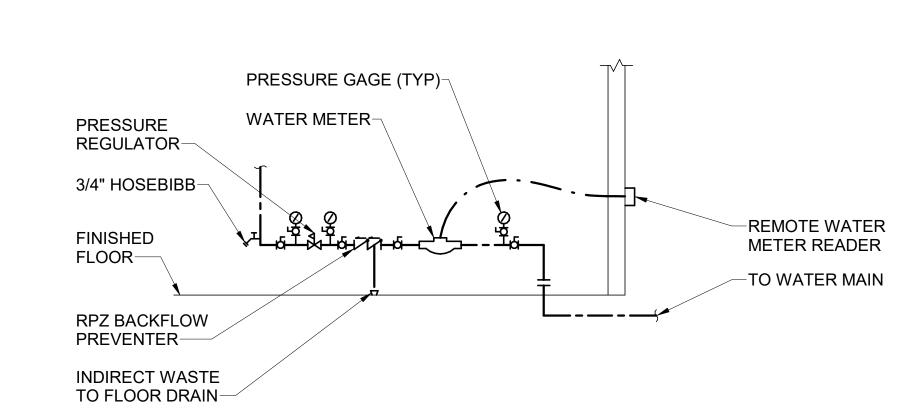
P-601 SCALE: NTS







7 HI-LOW MIXING VALVE PIPING SCHEMATIC
P-601 SCALE: NTS



**GENERAL NOTES** 

NOTE ON BASIS OF DESIGN: PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE IF THEY

ADJUSTMENTS TO DUCTING, PIPING, WIRING OR CONFIGURATION

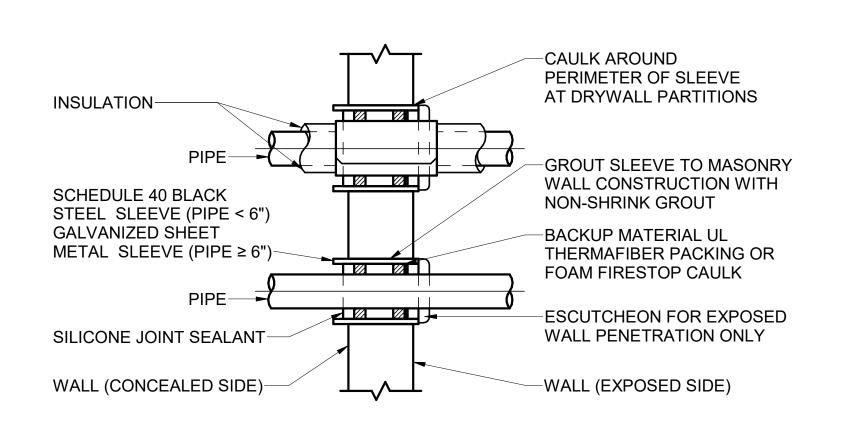
DUE TO THE SELECTION OF A MANUFACTURER OTHER THAN THAT

LISTED AS THE BASIS OF DESIGN WILL BE ACCOMPLISHED BY THE

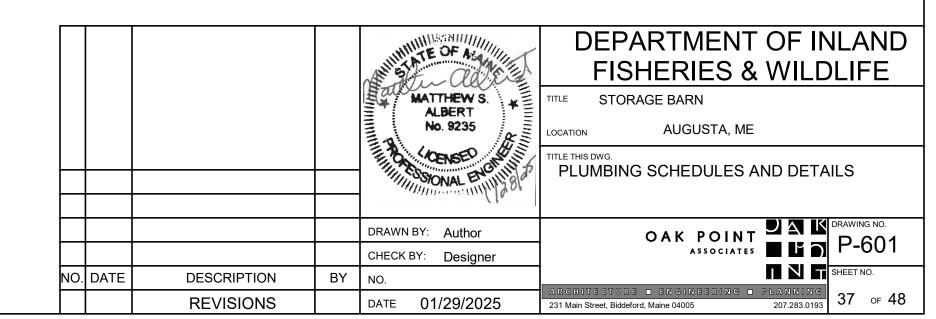
MEET THE OPERATIONAL REQUIREMENTS INDICATED. ANY

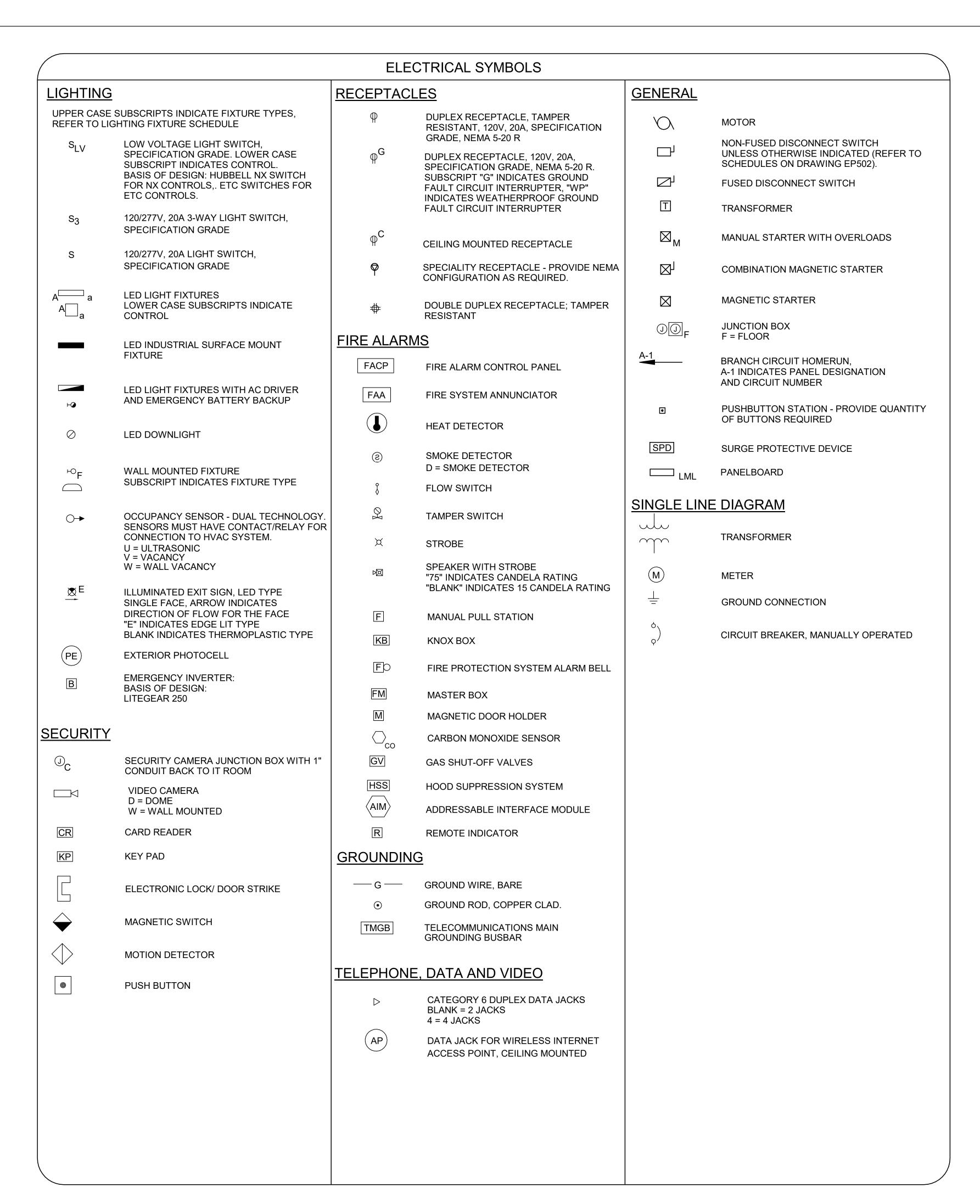
CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

## 6 WATER SUPPLY ENTRANCE DETAIL P-601 SCALE: NTS



8 PIPE SLEEVE THROUGH WALL
P-601 SCALE: NTS





#### **ELECTRICAL ABBREVIATIONS** A, AMP **AMPERE** A3P AMPERES, 3-POLE ALTERNATING CURRENT AFF ABOVE FINISHED FLOOR AIC AMPERE INTERRUPTING CAPACITY AIM ADDRESSABLE INTERFACE MODULE AHJ **AUTHORITY HAVING JURISDICTION** AWG AMERICAN WIRE GAUGE CONDUCTOR, CONDUIT CAT CATALOG. CATEGORY CONSTANT AIR VOLUME CAV CB CIRCUIT BREAKER **EMT** ELECTRICAL METALLIC TUBING **FACP** FIRE ALARM CONTROL PANEL FE/FEC FIRE EXTINGUISHER /FIRE EXTINGUISHER CABINET GROUND; GROUND FAULT CIRCUIT INTERRUPTER **GFCI** GROUND FAULT CIRCUIT INTERRUPTER HP HORSEPOWER HVAC HEATING, VENTILATION, AND AIR CONDITIONING **KCMIL** KILO-CIRCULAR MILS KVA KILO-VOLT-AMPERE KW KILO-WATT LIGHTING LOAD TYPE FOR PANEL SCHEDULE LED LIGHT EMITTING DIODE LTG LIGHTING MOTOR LOAD TYPE FOR PANEL SCHEDULE MAX MAXIMUM MCB MAIN CIRCUIT BREAKER MIN MINIMUM MLO MAIN LUG ONLY **NEUTRAL** NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NO, # NUMBER PHASE POLE POWER OVER ETHERNET POE P/O PART OF RECEPTACLE LOAD TYPE FOR PANEL SCHEDULE REC RECEPTACLE RGS RIGID GALVANIZED STEEL RMSPD SURGE PROTECTIVE DEVICE SW SWITCH TGB TELECOM GROUND BUSBAR **TMGB** TELECOM MAIN GROUND BUSBAR HEAT RESISTANT THERMOPLASTIC WIRE THHN WITH NYLON JACKET MOISTURE & HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET TYPICAL UE UNDERGROUND ELECTRIC UNDERWRITERS LABORATORIES USB UNIVERSAL SERIAL BUS VOLT

VA

VAV

WP

**VOLT AMPERE** 

WATT, WIRE

WEATHERPROOF

WITH

VARIABLE AIR VOLUME

EQUIVALENT CONDUCTOR SIZES SCHEDULE (FEEDERS ONLY)							
COPPER	ALUMINUM						
1/0	3/0						
2/0	4/0						
3/0	250 KCMIL						
4/0	300 KCMIL						
250 KCMIL	400 KCMIL						
350 KCMIL	500 KCMIL						
500 KCMIL	750 KCMIL						

**NOTE: CONDUCTOR SIZES** SHOWN ON THE DRAWINGS ARE COPPER. INCREASE **CONDUIT SIZE AS NEEDED** IN ACCORDANCE WITH THE

CONDUCTORS ARE USED.

NEC IF ALUMINUM

#### 3. ELECTRICAL EQUIPMENT AND WIRING MUST BE NEW AND UL LISTED UNLESS OTHERWISE NOTED. 4. LIGHT FIXTURES AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT MUST BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND PLUMBING WORK TO AVOID

ELECTRICAL GENERAL NOTES

REQUIREMENTS OF THE CURRENTLY ADOPTED EDITION OF

2. WORK MUST BE COORDINATED WITH ARCHITECTURAL, CIVIL,

STRUCTURAL, MECHANICAL AND PLUMBING TRADES.

THE NATIONAL ELECTRICAL CODE (NEC), NFPA AND STATE AND

. ELECTRICAL INSTALLATION MUST COMPLY WITH THE

LOCAL CODES.

INTERFERENCE.

5. A SEPARATE GREEN GROUNDING CONDUCTOR MUST BE PROVIDED FOR EACH INDIVIDUAL CIRCUIT. METAL CONDUIT MUST BE GROUNDED BUT MUST NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.

CONDUCTORS MUST BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE.

CONDUIT MUST BE MINIMUM 1/2" UNLESS OTHERWISE NOTED. COMMUNICATIONS CONDUIT MUST BE MINIMUM 1".

8. UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 1P, 15A 2P, 20A 1P, 20A SP BRANCH CIRCUIT SHALL BE 2 #12G, IN 1/2"C.

9. A SEPARATE NEUTRAL CONDUCTOR MUST BE PROVIDED FOR EACH INDIVIDUAL CIRCUIT. MULTIWIRE CIRCUITS ARE NOT PERMITTED.

10. UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 3P AND 20A 3P BRANCH CIRCUIT MUST BE 3 #12, 1 # 12G, IN 1/2"C.

11. DO NOT DRILL THROUGH OR CUT STRUCTURE.

12. SEAL CONDUIT INTERIOR TO PROHIBIT PASSAGE OF MOISTURE. PROVIDE SEALANT PRODUCT INTENDED FOR SUCH USE. PROVIDE AT CONDUITS PENETRATING FOUNDATION WALLS, EXTERIOR WALLS, COLD ATTICS, KITCHEN REFRIGERATION WALL PENETRATIONS, ETC. BASIS OF DESIGN: AMERICAN POLYWATER FST.

13. DO NOT COMBINE FEEDERS AND DEDICATED HOMERUNS WITH OTHER FEEDERS OR DEDICATED HOMERUNS.

#### MOUNTING HEIGHT SCHEDULE

(UNLESS NOTED OTHERWISE)

1. RECEPTACLES AND TELECOMMUNICATIONS OUTLETS

18" UNLES NOTED OTHERWISE. RECEPTACLES AND TELECOMMUNICATIONS OUTLETS AT COUNTERS: 6" ABOVE COUNTER TOP/BACKSPLASH.

SWITCHES 48".

MANUAL PULL STATIONS: 48" FIRE ALARM STROBES: 80"

RECEPTACLES IN BATHROOMS: 48" ADJACENT TO SINK, HAND DRYER, ETC. 48".

WIRE SIZE			20A CIRCU STANCE II	
	120V	208V	277V	480V
#12	60'	100'	140'	240'
#10	100'	160'	220'	360'
#8	150'	250'	325'	550'
#6	240'	400'	500'	800'

	DALE C. LINCOLN, II No. 10443 1/28/25 R	T
	DRAWN BV: DDD	

NO. DATE

DEPARTMENT OF INLAND FISHERIES & WILDLIFE

TITLE STORAGE BARN AUGUSTA, ME

TITLE THIS DWG. ELECTRICAL SYMBOLS, ABRBEVIATIONS AND GENERAL NOTES

OAK POINT DAM DRAWING NO.

ASSOCIATES E TO E-001

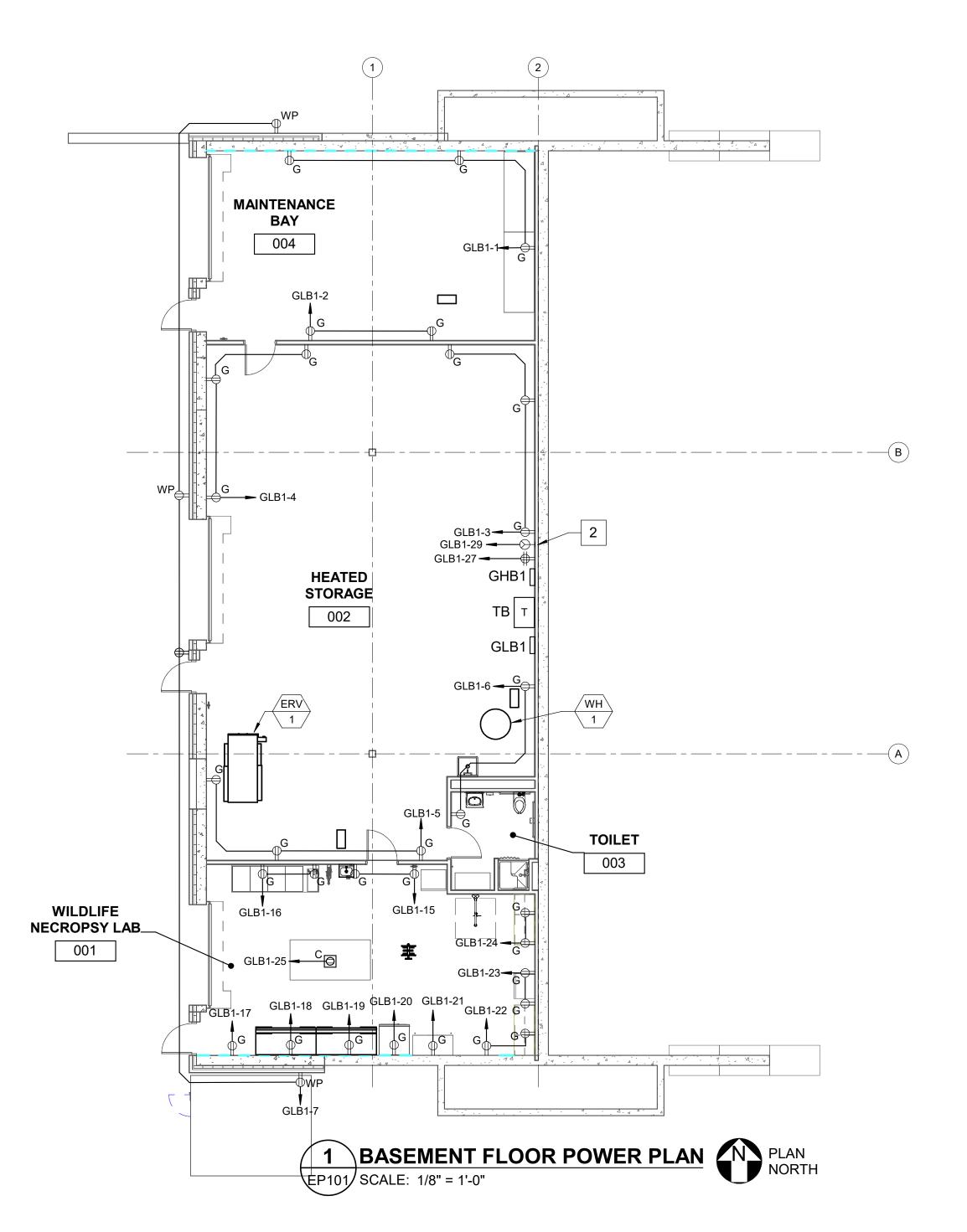
SHEET NO.

CHECK BY: DCL DESCRIPTION REVISIONS DATE 01/29/2025

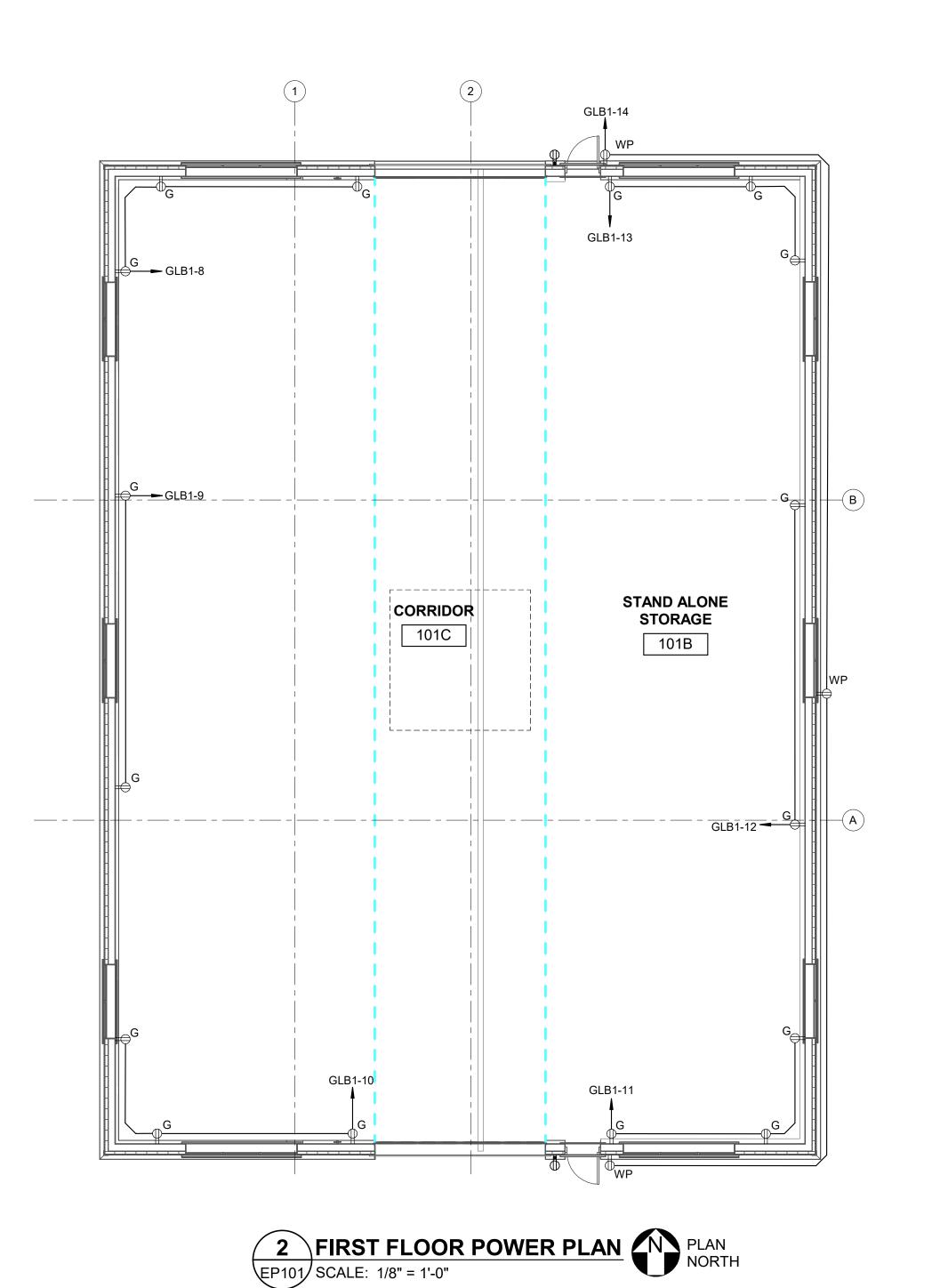
231 Main Street, Biddeford, Maine 04005

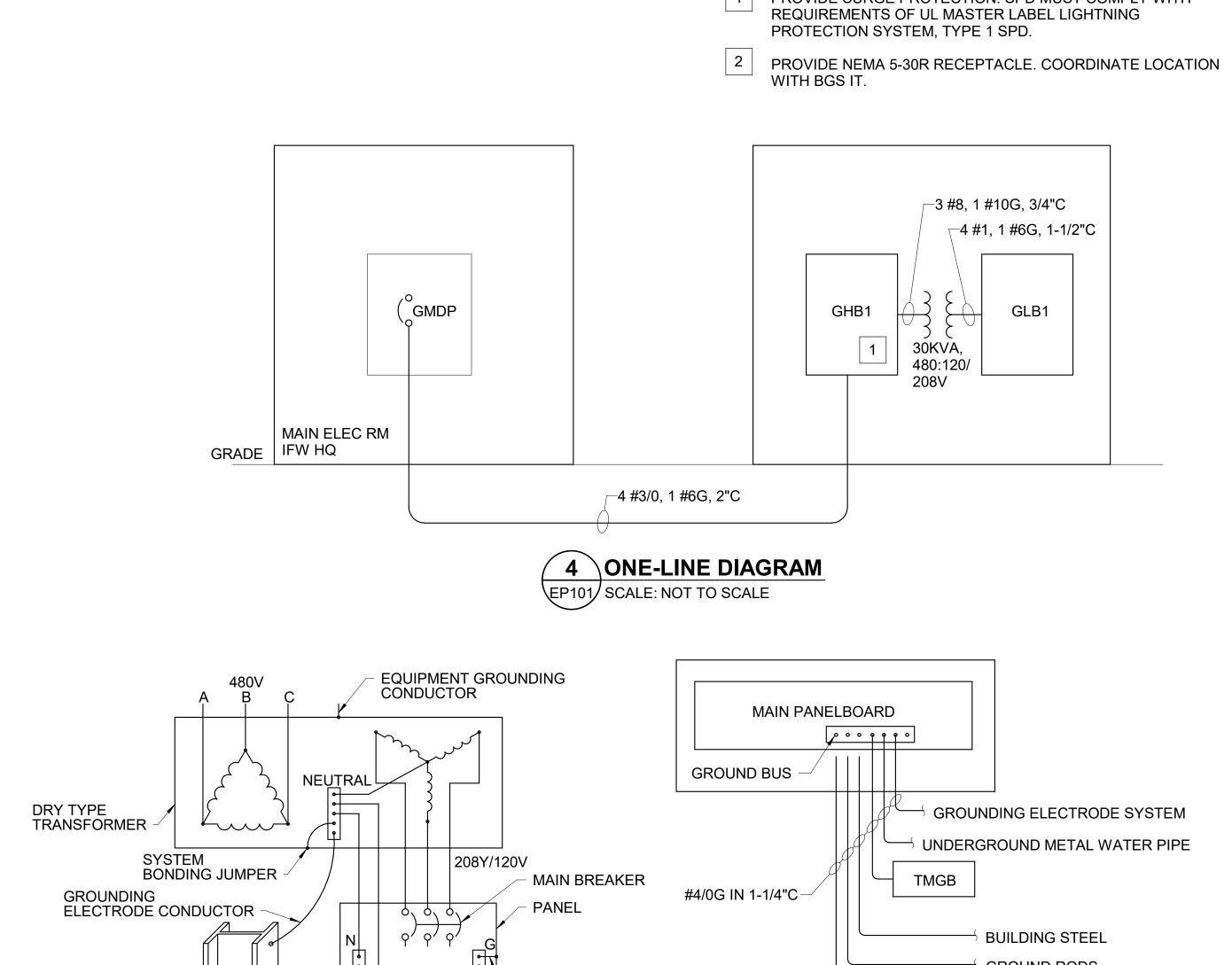
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- ISOLATED NEUTRAL TERMINAL

5 TRANSFORMER GROUNDING DETAIL EP101 SCALE: NOT TO SCALE

NEAREST GROUNDING ELECTRODE

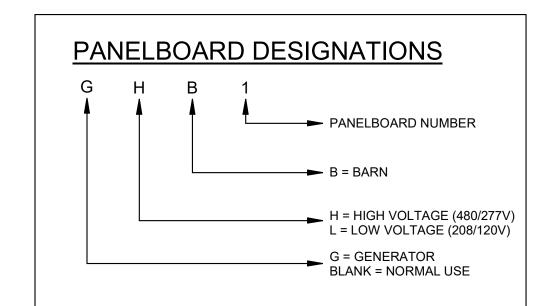
NOTES: 1.

. CONDUCTORS AND CONDUITS MUST BE CONCEALED IN FINISHED SPACES AND ON BUILDING EXTERIOR.	6 GROUNDING ELECTRODE SYSTEM DETAIL EP101 SCALE: NOT TO SCALE
TRANSFORMER GROUNDING DETAIL	

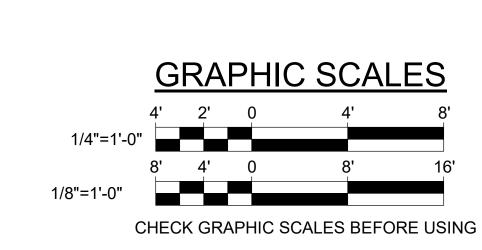
SUPPLY-SIDE BONDING JUMPERS

	Location: HEATED Mounting: Surface Enclosure: Type 1	STOR	AGE 00	)2				Volts Phases Wires	<b>s:</b> 3	208 Wy	e	A.I.C. Rating: 10000 Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A	
СКТ	Circuit Description	Trip	Poles	Α	В	С	Α	В	С	Poles	Trip	Circuit Description	СКТ
1	REC - MAINT 004 NORTH	20 A	1	4.5			3			1	20 A	REC - MAINT 004 SOUTH	2
3	REC - HEATED STOR 002 NE	20 A	1		4.5			4.5		1	20 A	REC - HEATED STOR 002 NW	4
5	REC - HEATED STOR 002 S	20 A	1			4.5			3	1	20 A	REC - HEATED STOR EAST	6
7	REC - BASEMENT EXTERIOR	20 A	1	4.5			4.5			1	20 A	REC - STAND ALONE 101A NW	8
9	REC - STAND ALONE 101A W	20 A	1		3			4.5		1	20 A	REC - STAND ALONE 101A SW	10
11	REC - STAND ALONE 101B SE	20 A	1			4.5			3	1	20 A	REC - STAND ALONE 101B EAST	12
13	REC - STAND ALONE 101B NE	20 A	1	4.5			4.5			1	20 A	REC - FIRST FLR EXTERIOR	14
15	REC - WILDLIFE LAB NORTH WALL	20 A	1		3			3		1	20 A	REC - WILDLIFE LAB NORTH 001	16
17	REC - WILDLIFE LAB SOUTH 001	20 A	1			1.5			6	1	20 A	REC - HOOD	18
19	REC - HOOD	20 A	1	6			1.5			1	20 A	REC - FREEZER	20
21	<b>REC - FRIDGE FREEZER COMBO</b>	20 A	1		12			3		1	20 A	REC - WILDLIFE LAB SOUTHEAST	22
23	REC - WILDLIFE LAB EAST	20 A	1			3			3	1	20 A	REC -WILDLIFE LAB 001 EAST	24
25	REC - LIGHT AND CORD REEL	20 A	1	1.5									26
27	REC - IT RACK QUAD	20 A	1		12								28
29	REC - IT NEMA 5-30	30 A	1			24							30
31													32
33													34
35													36
37													38
39													40
41													42
		Total	Load:	3964 VA	5940 VA	6300 VA							
		T-4-1	Amps:	33	52	55	1						

	Location: HEATED Mounting: Surface Enclosure: Type 1	02	ELBOARD SCHEDULE GHB1  Volts: 480/277 Wye Phases: 3 Wires: 4						е	A.I.C. Rating: 14000 Mains Type: MCB Mains Rating: 200 A MCB Rating: 200 A		
СКТ	Circuit Description	Trip Poles	Α	В	С	Α	В	С	Poles	Trip	Circuit Description	СКТ
1	ТВ	20 A 3	14.3			0			3	20 A	WALK IN FREEZER (FUTURE)	2
3				22.5			0					4
5					23.8			0				6
7	LTG - BARN	20 A 1	1.8			24			3	20 A	HP-1	8
9							24					10
11								24				12
13						24			3	20 A	HP-2	14
15							24					16
17								24				18
19						24			3	20 A	HP-3	20
21							24					22
23								24				24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
		Total Load:	24412 VA	25893 VA	26253 VA							
		Total Amps:	88.1	94.3	95.6							



TRANSFORMER SCHEDULE								
TAG	KVA	VOLTS						
_	-	480△- 208Y/120						



_					
				MANUAL PROPERTY OF THE PARTY OF	DEPARTMENT OF INLAN
				ATE OF MAN	FISHERIES & WILDLIFE
				DALE C.	TITLE STORAGE BARN
				LINCOLN, II No. 10443	LOCATION AUGUSTA, ME
-				CASE ONAL ENGINEER	BASEMENT, FIRST FLOOR, AND CUPOLA ELECTRICAL FLOOR PLANS
				DRAWN BY: BPD	OAK POINT DAK DRAWING NO.
				CHECK BY: DCL	ASSOCIATES EP1
ſ	NO. DATE	DESCRIPTION	BY	NO.	SHEET NO.
		REVISIONS		DATE 01/29/2025	ARCHITECTURE ENGINEERING PLANNING 231 Main Street, Biddeford, Maine 04005 207.283.0193

**DRAWING KEYNOTES** 

PROVIDE SURGE PROTECTION. SPD MUST COMPLY WITH

*─*3 #8, 1 #10G, 3/4"C

30KVA, 480:120/ 208V

TMGB

NOTES: 1. CONDUCTORS AND CONDUITS MUST BE CONCEALED IN FINISHED SPACES AND ON BUILDING EXTERIOR.

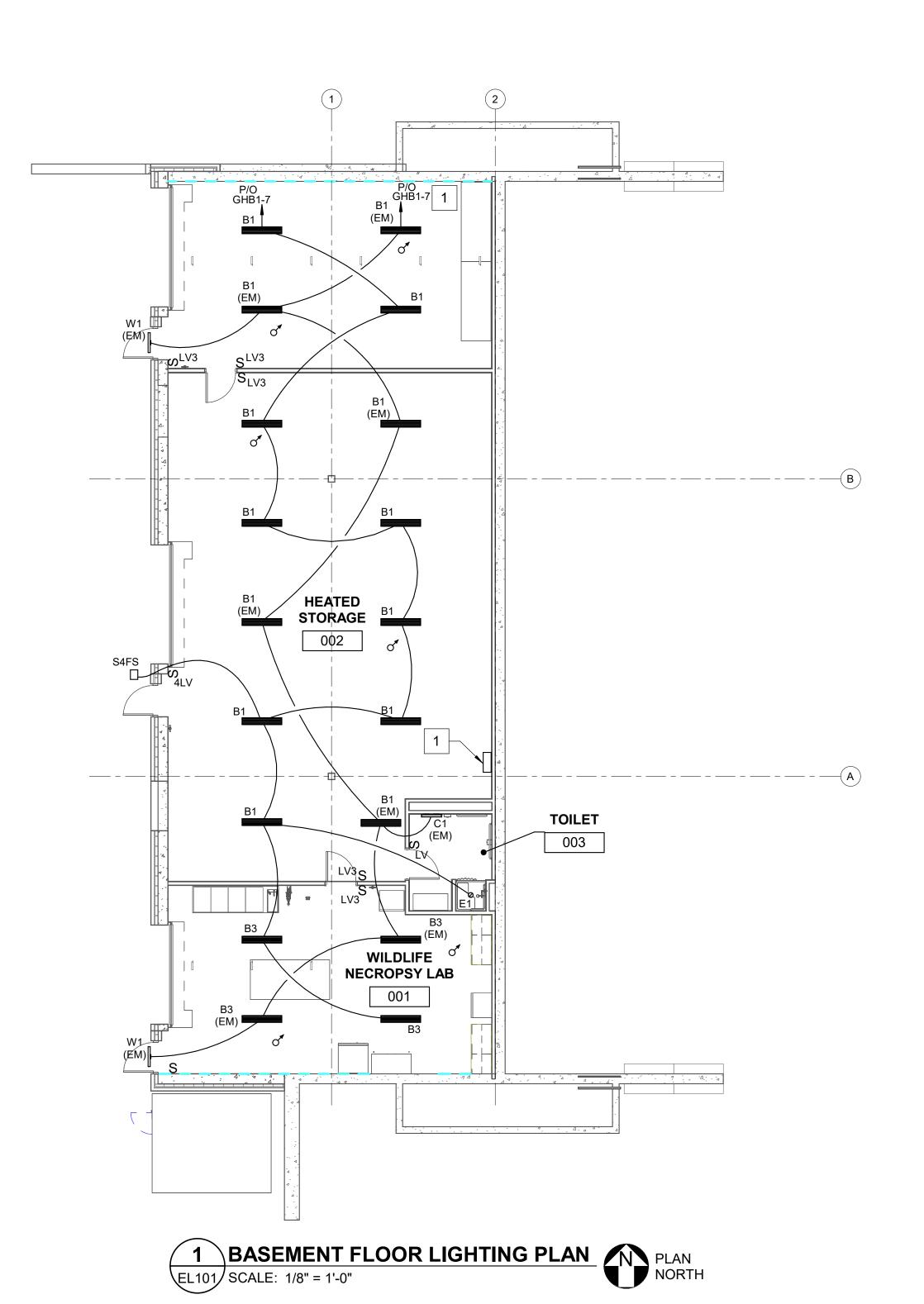
GLB1

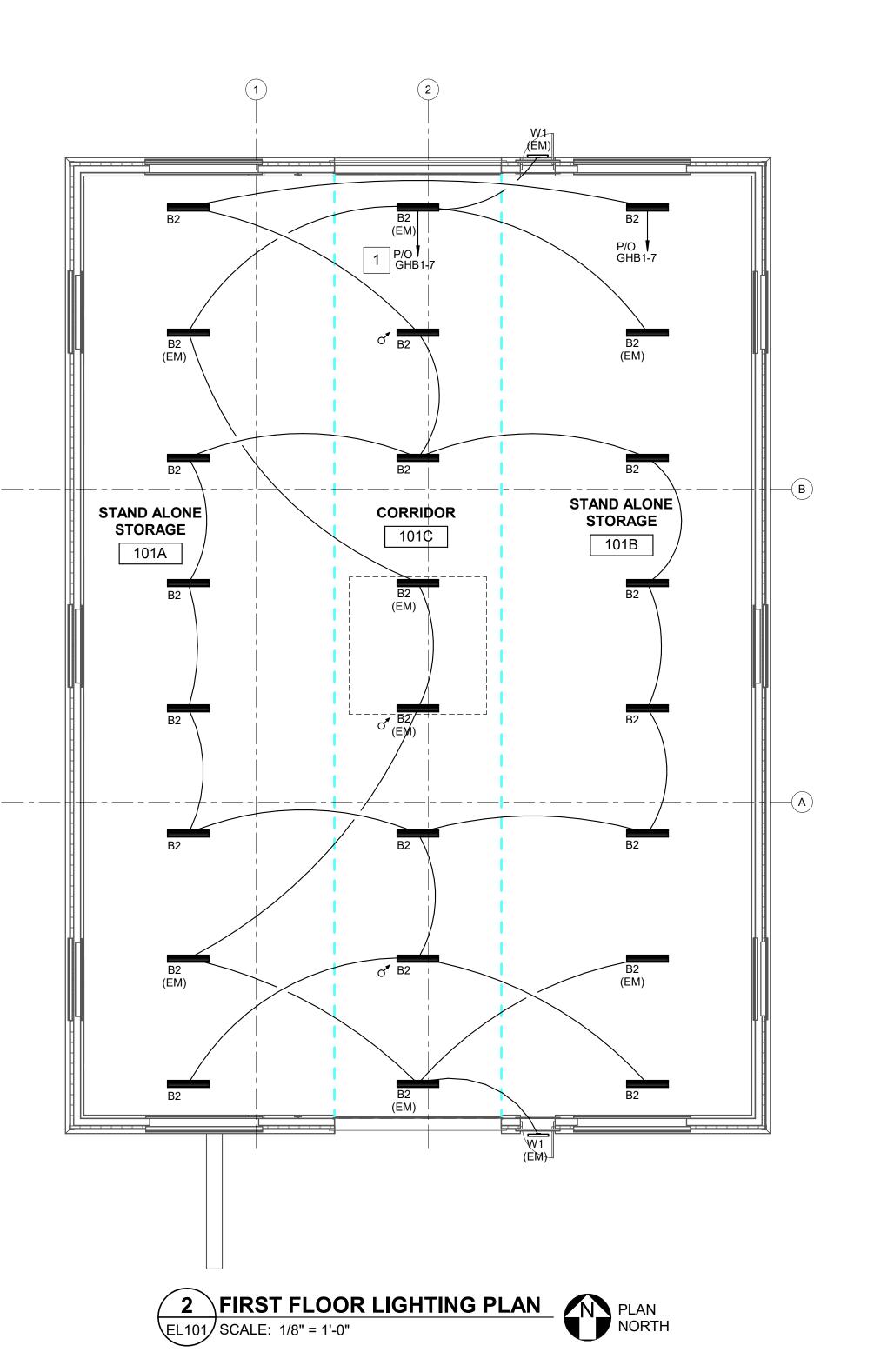
→ GROUNDING ELECTRODE SYSTEM

→ UNDERGROUND METAL WATER PIPE

GROUND RODS

→ LIGHTNING PROTECTION SYSTEM





	LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	SOURCE	LUMENS	VOLTS	W/VA	MOUNTING	NOTES	MANUFACTURER	CATALOG NUMBER
B1	LOW PROFILE WRAPAROUND	LED	2368	277	18.8	SURFACE/CHAIN	1,2	COLUMBIA	LAW4-35XW-EU
B2	LOW PROFILE WRAPAROUND	LED	3292	277	26.6	SURFACE/CHAIN	1,2	COLUMBIA	LAW4-35VW-EU
В3	LOW PROFILE WRAPAROUND	LED	4405	277	37.4	SURFACE/CHAIN	1,2	COLUMBIA	LAW4-35LW-EU
C1	2"X4" WALL DIRECT/INDIRECT	LED	4001	277	33	WALL	1	LITE CONTROL	2L-W-ID-LPAD-2-SOF-C1-35K-I030-D070-D01-1C-UNV-(EF)
E1	SHOWER LIGHT	LED	614	277	7.3	RECESSED	1,5	PRESCOLITE	LFR-6RD-M-10L35K8-DM1 WITH LFR-6RD-T-SH-WTGML
S4FS	SITE LIGHT - TYPE 4 FORWARD THROW	LED	4492	277	33.2	WALL	4,6	LITHONIA	DSX0-LED-P1-40K-80CRI-TFTM
W1	SURFACE MOUNT EXTERIOR	LED	600	277	8	SURFACE MOUNT	1,2,4,6	KIM	RN-D-2-3-3K8-SM-DL-UNV-W
$\boxtimes \boxtimes$	EXIT SIGNS - THERMOPLASTIC TYPE	LED	-	277	3.3	RECESSED/SURFACE	1	DUAL LITE	EVEURWE

### FIXTURE SCHEDULE NOTES

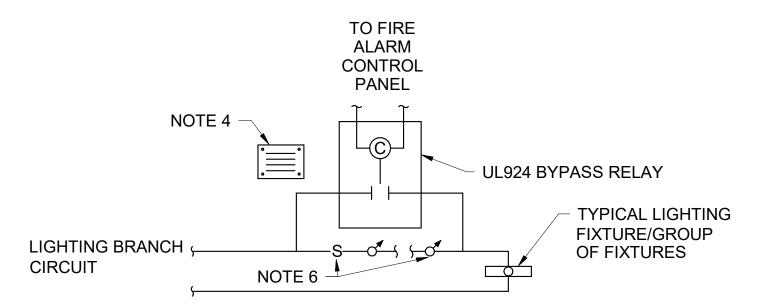
- COORDINATE MOUNTING TYPE (GRID (SAT), FLANGE (GYPSUM), OR SURFACE/SUSPENDED (NO CEILING) WITH CEILING/WALL/FLOOR TYPE.
- VERIFY MOUNTING WITH ARCHITECT BEFORE INSTALLATION OF WIRE, CONDUIT AND JUNCTION BOXES.
- VERIFY ACTUAL LENGTH OF CONTINUOUS ROWS AS SHOWN ON LIGHTING PLANS.
- FINAL COLOR SELECTION MUST BE MADE BY ARCHITECT FROM MANUFACTURER'S SUBMITTALS. PROVIDE ACCESSORIES FOR SHOWER APPLICATIONS, WHERE REQUIRED.
- EXTERIOR FIXTURES MUST BE CONTROLLED BY EXTERIOR PHOTOCELL AND PROGRAMMABLE TIMECLOCK VIA THE LIGHTING CONTROL SYSTEM. LIGHTING CONTROL SYSTEM MUST INTERFACE WITH THE DDC SYSTEM VIA THE DDC BACNET INTERFACE. SEE DETAIL 6/EL701.

#### **DRAWING NOTES**

- 1. PROVIDE BACNET INTERFACE DEVICE SO BAS SYSTEM CAN MONITOR THE STATE OF EACH
- 2. EMERGENCY LIGHTS MUST DIM TO 50% AFTER HOURS DURING UNOCCUPIED CONDITIONS.
- 3. CONNECT TO EXIT SIGNS AND EMERGENCY FIXTURE TO LOCAL LIGHTING CIRCUITS AHEAD OF ANY SWITCHES OCCUPANCY SENSORS, ETC.

#### **DRAWING KEYNOTES**

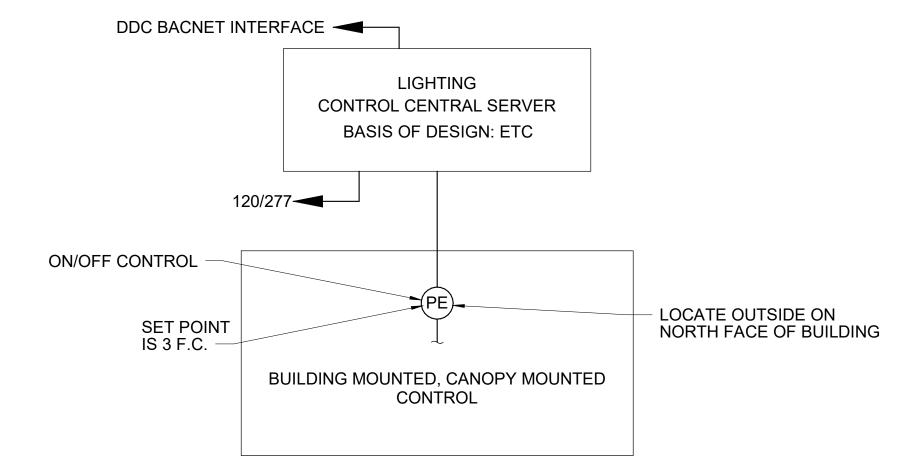
PROVIDE A REMOTE EMERGENCY LIGHTING INVERTER. COORDINATE AND CONFIRM FINAL FIXTURE SELECTION DOES NOT EXCEED THE INVERTERS CAPACITY. BASIS OF DESIGN: ONLINE POWER, POWER WAVE INVERTERS.



#### LIGHTING BYPASS CONTROL DIAGRAM NOTES:

- PROVIDE 120V AC BYPASS RELAY WITH MINIMUM 20 AMP, 120V RATED NORMALLY OPEN AND NORMALLY CLOSED CONTACTS. NORMALLY CLOSED BYPASS RELAY CONTACTS MUST BE HELD OPEN BY 120 VOLT POWER. NORMALLY CLOSED CONTACT MUST CLOSE WHEN FIRE ALARM/MASS COMMUNICATION SYSTEM IS IN ALARM AND MUST BYPASS THE LIGHTING SWITCHES, CONTROLS AND OCCUPANCY/VACANCY SENSORS.
- BYPASS RELAY MUST BE UL LISTED FOR EMERGENCY LIGHTING CONTROL USE.
- PROVIDE ONE RELAY PER SEPARATELY CONTROLLED LIGHTING GROUP/CIRCUIT IN EACH AREA INDICATED AND ALONG PATHS OF EGRESS.
- PROVIDE ENGRAVED INFORMATIONAL SIGN TO LABEL BYPASS RELAY WITH CIRCUIT NUMBER, FIRE ALARM CONTROL MODULE ADDRESS AND LIGHTING AREA SERVED. INDICATE RELAY LOCATIONS ON RECORD DRAWINGS. INCLUDE A LISTING OF BYPASS RELAYS WITH FIRE ALARM INFORMATION, CONTROL CIRCUIT, AND AREA CONTROLLED IN TABLE FORMAT AND INCLUDE TABLE IN OPERATION AND MAINTENANCE MANUAL.
- COORDINATE WORK, INCLUDING LOCATIONS OF LIGHTING BYPASS RELAYS, WITH FIRE ALARM INSTALLER SINGLE POLE SWITCH AND LINE VOLTAGE MOTION SENSORS SHOWN. DETAIL ALSO APPLIES WHERE S, AND S, SWITCHES OR
- LOW VOLTAGE CONTROLS ARE INDICATED. PROVIDE FOR PATH OF EGRESS AREAS, TO INCLUDE CORRIDORS AND OTHER AREAS AS INDICATED.
- INSTALL BYPASS RELAY ABOVE SUSPENDED/ACCESSIBLE CEILING IN AN ACCESSIBLE LOCATION WITHIN THE ROOM CONTROLLED, IN AN ADJACENT ELECTRICAL ROOM, ADJACENT TO THE ASSOCIATED LIGHTING CONTROL PANEL, OR AS INDICATED. WHERE AN ACCESSIBLE LOCATION IS NOT PRESENT IN THE AREA BEING CONTROLLED, INSTALL RELAY ABOVE SUSPENDED CEILINGS IN AN ACCESSIBLE LOCATION IN AN ADJACENT SPACE AND LABEL. INDICATE RELAY LOCATIONS ON
- THE AS-BUILT DRAWINGS. COORDINATE WITH FIRE ALARM INSTALLER. PROVIDE TESTING OF EACH RELAY. DOCUMENT TEST RESULTS ON RELAY SUMMARY

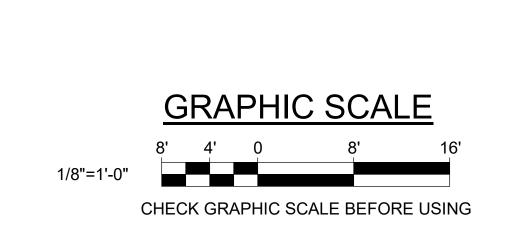


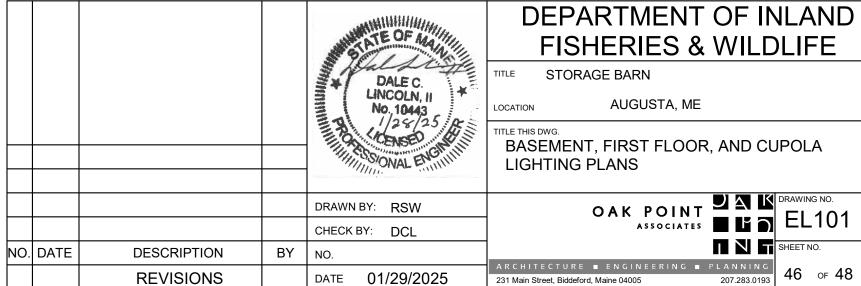


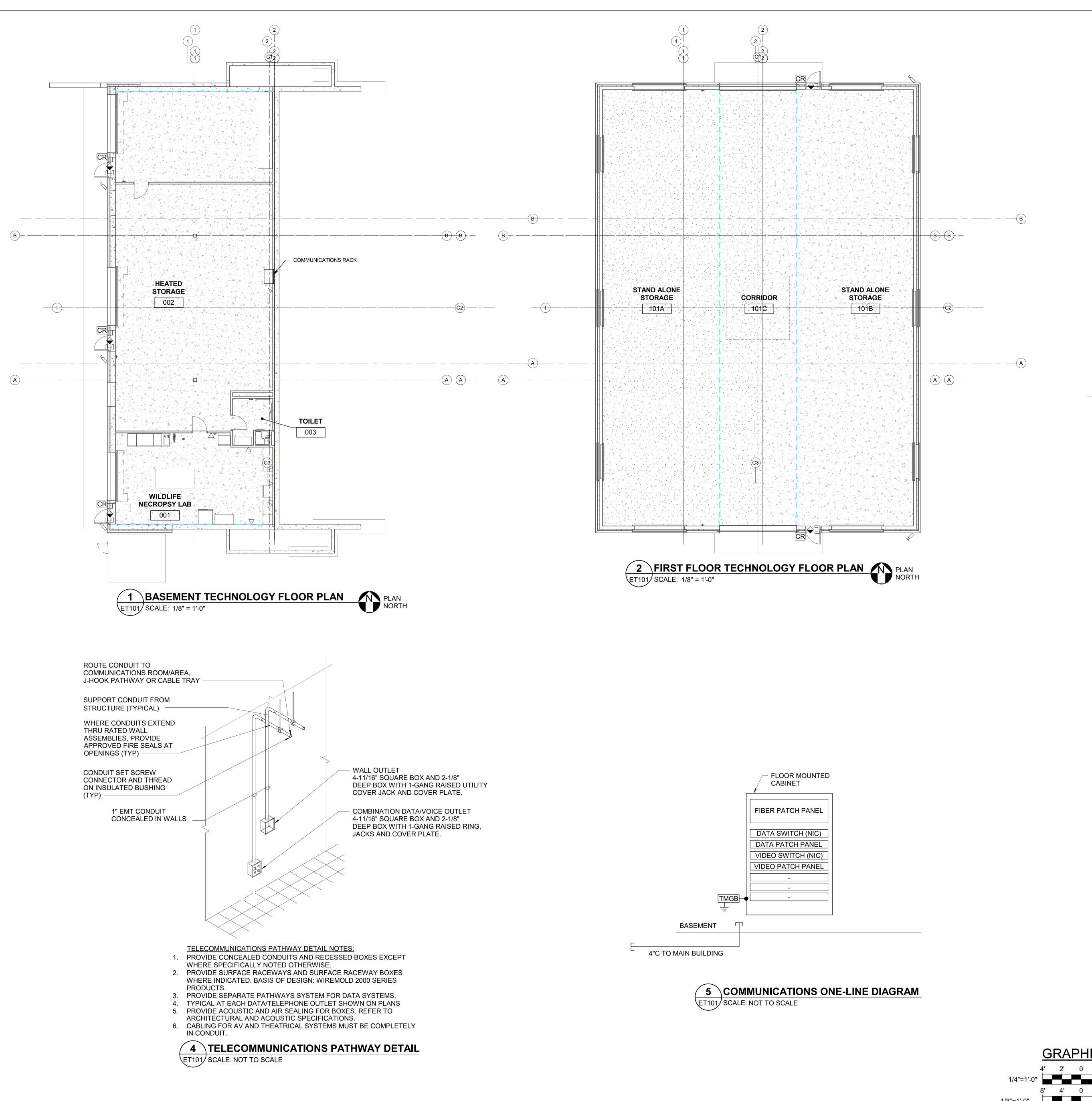
#### TYPICAL LIGHTING CONTROLS DIAGRAM NOTES:

- 1. WIRING, COMPONENTS AND INSTALLATION REQUIREMENTS
- WILL VARY DEPENDING ON SYSTEM. 2. LIGHTING MUST BE CONTROLLED (ON/OFF) VIA LIGHTING CONTROL
- SYSTEM FOR NORMAL HOURS. OCCUPANCY SENSORS AND PHOTOCELLS MUST TRIGGER 20 MIN TEMPORARY OVERRIDE DURING AFTER HOUR SERVICE.
- 3. INSTALLATION OF PHOTOCELLS, OCCUPANCY SENSORS, WIRING, ETC. MUST BE
- PER MANUFACTURERS RECOMMENDATIONS.
- 4. TIME SCHEDULES MUST BE COORDINATED WITH OWNER AT STARTUP. 5. CONTROL WIRING MUST BE PER MANUFACTURERS RECOMMENDATION.
- 6. OCCUPANCY SENSORS PROVIDE AUTO ON/OFF WITH 20 MIN TIME DELAY DURING
- AFTER HOUR SERVICE. 7. LOSS OF POWER MUST TURN ALL RELAYS ON.
- 8. DIAGRAM INDICATES CONTROL DEVICES AND WIRING ONLY. REFER TO LIGHTING DRAWINGS FOR BRANCH CIRCUITS.
- 9. PROVIDE NUMBER OF CONTROL PANELS FOR COMPLETE COVERAGE. 10. THE LIGHTING CONTROL SYSTEM MUST BE ACCESSIBLE VIA A WEB BASED GRAPHICAL
- 11. CONTROLLER MUST HAVE VOLTAGE DIVIDER FOR NORMAL AND EMERGENCY CIRCUITS.
- 12. PROVIDE BACNET INTERFACE DEVICE SO BAS SYSTEM CAN MONITOR THE STATE OF EACH SENSOR. 13. CONTROLLER MUST HAVE NETWORK JACK FOR FUTURE NETWORK CONNECTION.



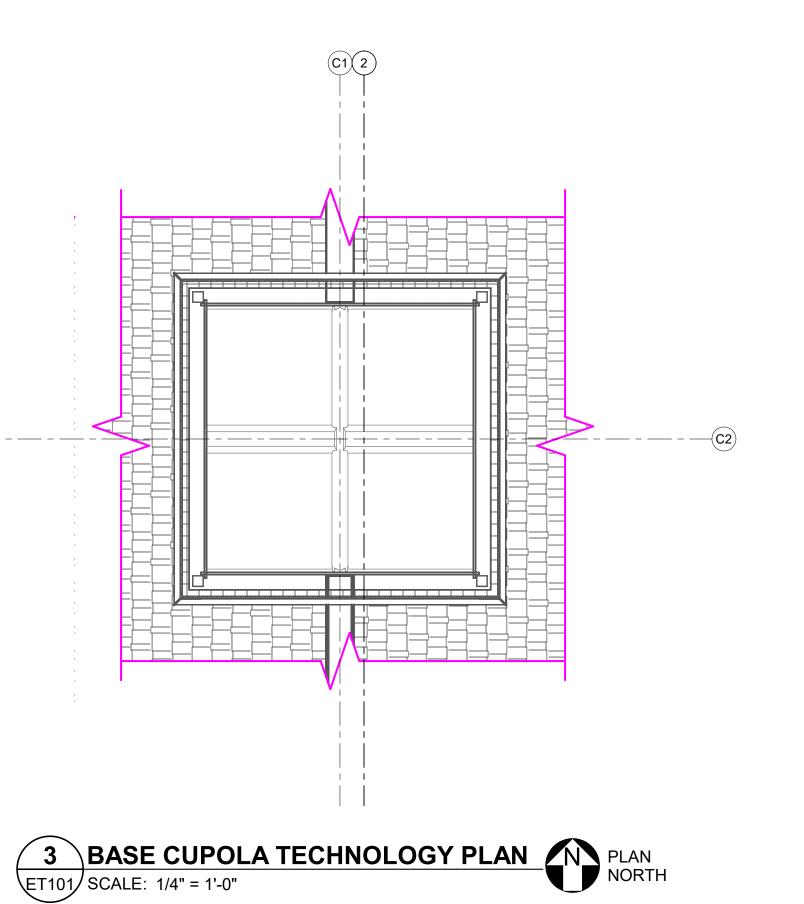






#### **DRAWING NOTE**

1. PROVIDE PATHWAYS AND BOXES FOR COMMUNICATIONS AND ELECTRONIC SECURITY SYSTEMS, INCLUDING CONDUIT AND J-HOOKS. BACKBONE CABLING, HORIZONTAL CABLING, JACKS, FACEPLATES, RACKS, PATCH PANELS, AND SWITCHES, PROVIDED BY OTHERS.



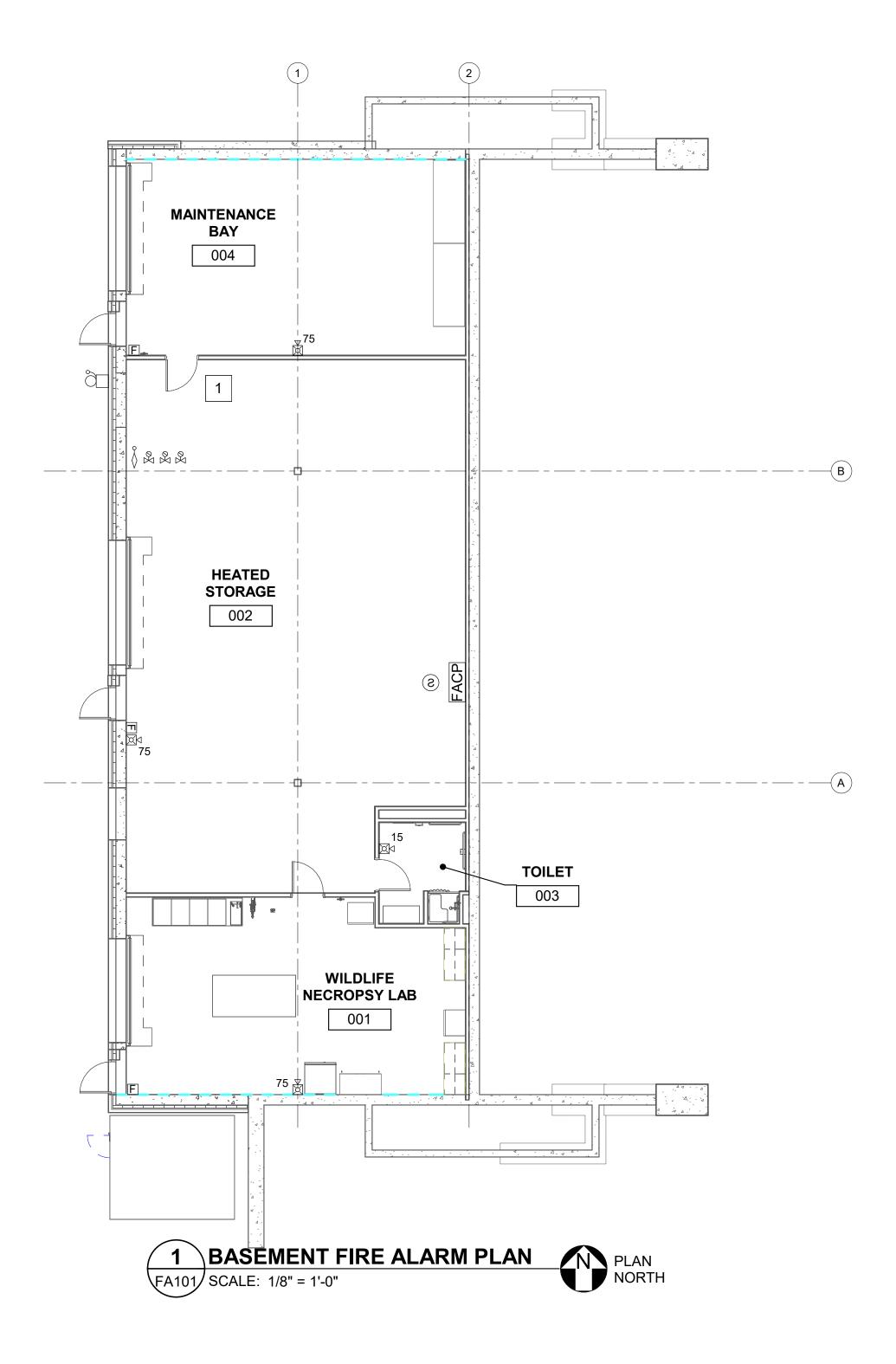
GRAPHIC SCALES

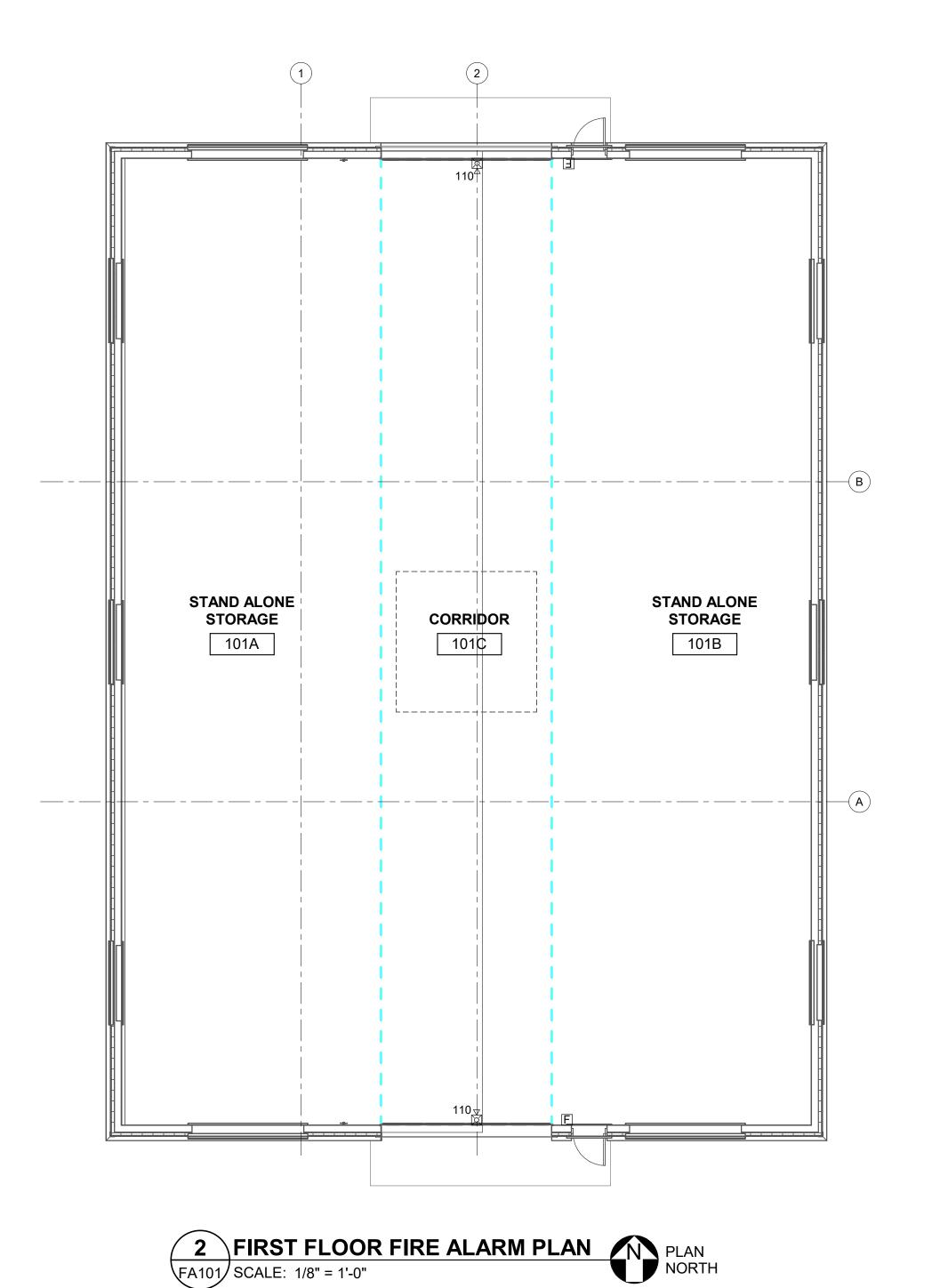
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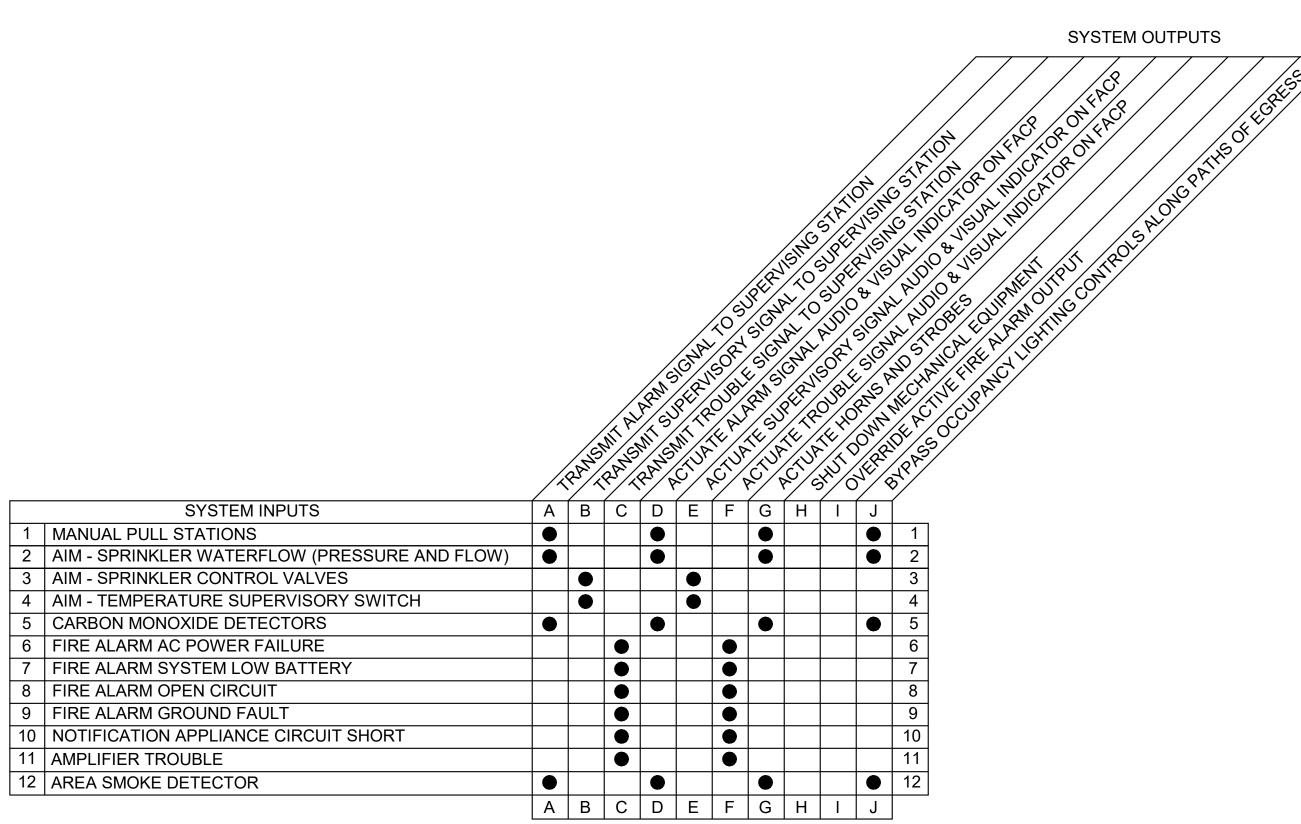
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CHECK GRAPHIC SCALES BEFORE USING

NO. DATE DESCRIPTION REVISIONS

				MANUAL PROPERTY OF THE PARTY OF	DEPARTMENT OF INLAND
				ATE OF MAN	FISHERIES & WILDLIFE
				DALE C.	TITLE STORAGE BARN
				LINCOLN, II No. 10443	LOCATION AUGUSTA, ME
				O CONSTO	TITLE THIS DWG. BASEMENT, FIRST FLOOR, AND CUPOLA
				WILLIAM ONAL ENGINEER	TECHNOLOGY FLOOR PLANS
				DRAWN BY: BPD	OAK POINT PAIK DRAWING NO.  ET101
				CHECK BY: DCL	ASSOCIATES E E E IUI
NO.	DATE	DESCRIPTION	BY	NO.	SHEET NO.
		REVISIONS		DATE 01/29/2025	231 Main Street, Biddeford, Maine 04005 207.283.0193 47 OF 48

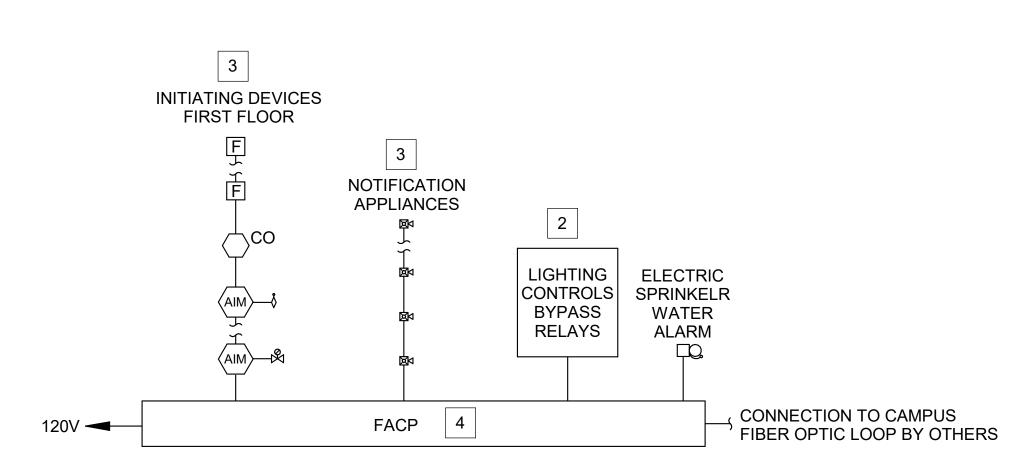




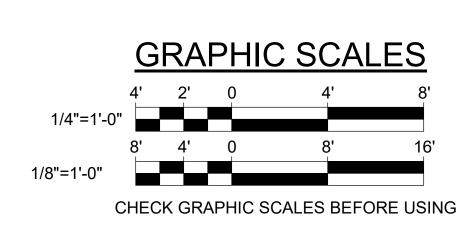


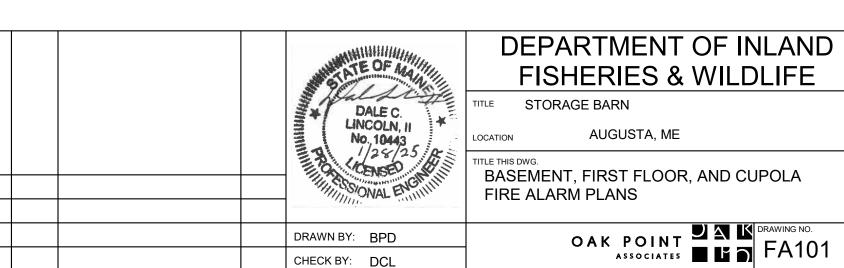


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5 FIRE ALARM ONE-LINE DIAGRAM FA101 SCALE: NOT TO SCALE





DATE 01/29/2025

NO. DATE

DESCRIPTION

REVISIONS

**DRAWING NOTES** 

GENERAL NOTES.

1. DEVICE BOXES AND PATHWAYS MUST BE CONCEALED IN FINISHED

2. REFER TO SHEET E-001 FOR SYMBOLS, ABBREVIATIONS, AND

3. INITIATING CIRCUITS AND NOTIFICATION CIRCUITS MUST NOT BE

INSTALL ADDITIONAL CIRCUITS AND EXTENDER PANELS TO

4. FIRE ALARM RISER DIAGRAM IS SHOWN FOR REFERENCE ONLY.

2 PROVIDE ADDRESSABLE INTERFACE DEVICE AND PROGRAMMING FOR CONTROL OF LIGHTING CONTROLS BYPASS RELAYS. REFER

4 PROVIDE QUANTITY OF DEVICES AND CIRCUITS SHOWN ON SHOP

3 PROVIDE NUMBER OF CIRCUITS REQUIRED FOR THE LOAD.

ALARM SYSTEM INSTALLING CONTRACTOR MUST VERIFY

MUST BE LOCATED IN UTILITY ROOMS.

**DRAWING KEYNOTES** 

1 PROVIDE CO DETECTORS.

TO DETAL 5/EL101.

DRAWINGS.

LOADED MORE THAN 75% OF THEIR RATED CAPACITY. THE FIRE

COMPLIANCE WITH THIS REQUIREMENT AND MUST FURNISH AND

COMPLY. EACH EXTENDER PANEL MUST HAVE A SMOKE DETECTOR PROVIDED AT THE CEILING ABOVE THE PANEL. EXTENDER PANELS

DEVICE LOCATIONS AND QUANTITIES MUST BE AS SHOWN ON THE SHOP DRAWINGS. ADDITIONAL DEVICES AND EQUIPMENT BEYOND THOSE SHOWN MUST BE PROVIDED AT NO ADDITIONAL COST TO MEET THE REQUIREMENTS OF NFPA 101, NFPA 13, AND NFPA 72.

> BASEMENT, FIRST FLOOR, AND CUPOLA FIRE ALARM PLANS OAK POINT DAM DRAWING NO.
>
> FA101

SHEET NO. 231 Main Street, Biddeford, Maine 04005