

LEGEND:

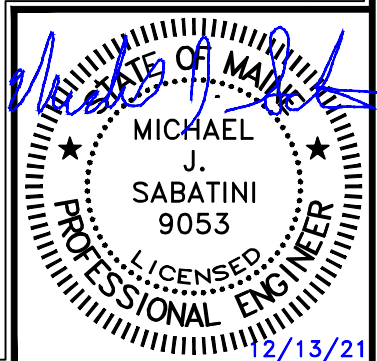
- IRON PIN FOUND (AS NOTED)
- UTILITY POLE
- ○ ○ ○ ○ STONE WALL
- E — AERIAL UTILITY LINE
- UE — EX. UNDERGROUND UTILITIES
- S — EX. SANITARY SEWER LINE
- D — EX. STORM DRAIN
- ⊕ EX. DRILLED WELL (APPROXIMATE LOCATION)
- ♻️ DECIDUOUS TREE
- - -266- - - EXISTING CONTOUR
- ⊥ 1.7' TEST PIT WITH DEPTH TO LEDGE BELOW EXISTING GRADE PROVIDED BY OTHERS
- EXISTING BUILDING
- EXISTING GRAVEL DRIVE
- 235.2x NEW SPOT ELEVATION
- 230 — NEW CONTOURS
- P-UTIL — NEW UNDERGROUND UTILITIES
- P-UD — NEW UNDERDRAIN 4" PERFORATED PVC
- P-FD — NEW FOUNDATION DRAIN OUTFALL 4" SOLID PVC
- — — NEW STORMDRAIN
- NEW GRAVEL DRIVE
- NEW PAVED DRIVE
- NEW RIPRAP CHANNEL
- ⊠ NEW CATCHBASIN (TYPE F)
- ▲ NEW BUILDING MOUNTED SITE LIGHT
- SF — SILT FENCE
- NEW BOULDER HEADWALL
- NEW STONE CHECK DAM

- SITE NOTES:**
1. THESE PLANS ARE ISSUED FOR CONSTRUCTION OF NEW BUILDINGS AND SITE IMPROVEMENTS AT THE MAINE BUREAU OF PARKS & LANDS FACILITY IN RICHMOND, AND ARE PART OF THE OVERALL BGS PROJECT #3204. FOR OTHER INFORMATION REFER THE CONTRACT DOCUMENTS – PROJECT MANUAL, BUILDING DRAWINGS AND SPECIFICATIONS.
 2. UTILITIES SHOWN ARE APPROXIMATE. LOCATION SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES. NEW UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATION ONLY AND ARE SCHEMATIC. COORDINATION WITH A LICENSED ELECTRICIAN AND CMP IS REQUIRED.
 3. ALL STORM DRAIN PIPES SHALL BE ADS-N12 OR EQUAL. ALL PVC PIPES SHALL BE SDR 35 OR EQUAL. CONTRACTORS SHALL STAKE-OUT ALL DRAINAGE STRUCTURES, STORM DRAINS, CULVERTS, AND LEVEL SPREADERS PRIOR TO PLACEMENT, FOR APPROVAL BY OWNER/ENGINEER.
 4. BOULDER HEADWALLS SHALL BE LOOSE LAID AND MACHINE PLACED.
 5. SEE TEST PIT LOCATIONS AND CORRESPONDING DEPTHS TO LEDGE BELOW EXISTING GRADE FOR LEDGE REMOVAL REQUIREMENTS. COMPLY WITH PROJECT MANUAL SPECIFICATION SECTION 31 23 06 AND MAINE DOT STANDARD SPECIFICATION SECTION 203.042 FOR REQUIREMENTS FOR BLASTING.
 6. THE NEW ENTRANCE IS SUBJECT TO MAINE DEPARTMENT OF TRANSPORTATION ENTRANCE PERMIT #29290.
 7. VEGETATION CLEARING LIMIT IS 15 FEET FROM THE EDGES OF NEW GRADED AREAS OR EDGE OF ROAD. ANY TREE LIMBS THAT EXTEND OVER THE NEW DRIVEWAY AREAS BELOW 16 FEET HEIGHT SHALL BE REMOVED BACK TO THE TREE TRUNK.
 8. THIS SITE WAS INITIALLY DEVELOPED IN THE EARLY 1970's AND THEREFORE MOST OF THE IMPERVIOUS ARE IS NON-JURISDICTIONAL. THE AMOUNT OF IMPERVIOUS AREA THAT WAS CONSTRUCTED AFTER 1997 COMBINED WITH THAT WHICH IS PROPOSED FOR THIS PROJECT IS APPROXIMATELY 18,000 SF WHICH DOES NOT MEET THE THRESHOLD FOR A DEP STORMWATER PERMIT.

SURVEYOR'S NOTES:

Elevations shown hereon are in feet, referenced to the North American Vertical Datum of 1988 (NAVD 88) derived from GPS observations tied to the MaineDOT CORS network.

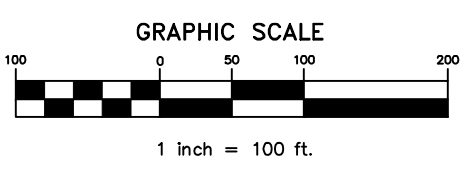
Contours shown at 1-foot intervals are derived from field survey. Contours shown at 2-foot intervals are taken from Maine Office of GIS lidar data.



REVISED DECEMBER 13, 2021

LANDMARK CORPORATION
 SURVEYORS & ENGINEERS
 135 ROCKLAND STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

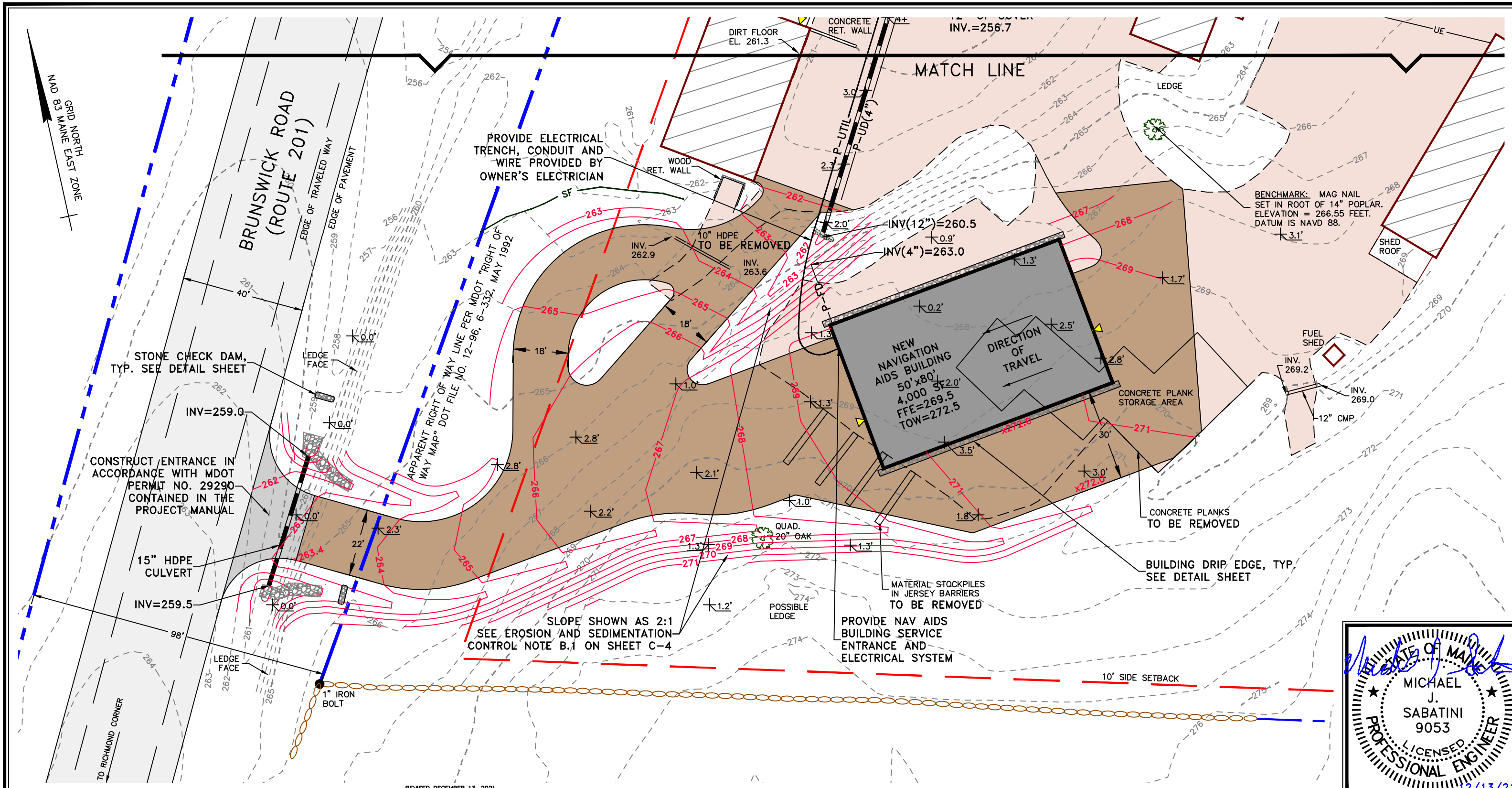
FIELD WORK DATE: 5/19/21
FIELD WORK BY: KMB/EST
DRAFTED BY: KMB/JML
CHECKED BY: MJS
PLAN DATE: AUGUST 27, 2021



**BGS PROJECT #PT3204
 SITework WORK SCOPE
 OVERALL PLAN,
 LEGEND & NOTES**

MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY
 BUREAU OF PARKS AND LANDS
 BOATING FACILITIES PROGRAM
 RICHMOND MAINTENANCE FACILITY BUILDINGS
 1009 BRUNSWICK ROAD RICHMOND, MAINE SAGadahoc COUNTY
 SCALE: 1" = 100' JOB No.: 20 - 015 SHEET: 1 OF 8

SHEET DESIGNATION:
C-1

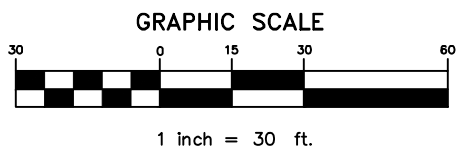


STATE OF MAINE
 MICHAEL J. SABATINI
 9053
 LICENSED PROFESSIONAL ENGINEER
 12/13/21

REVISED DECEMBER 13, 2021

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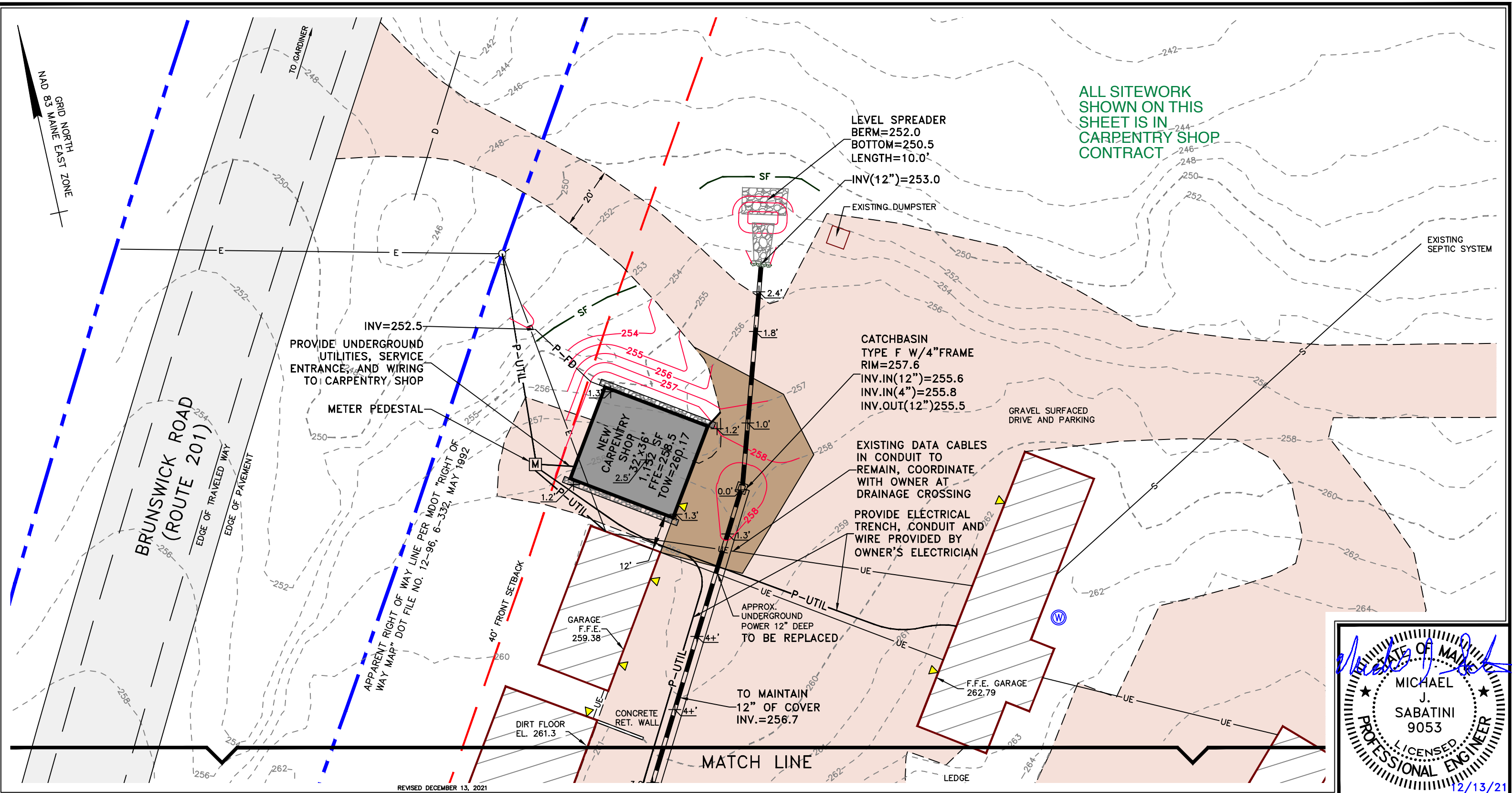
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BGS PROJECT #PT3204
SITWORK WORK SCOPE
SITE PLAN A - NAVIGATION AIDS
BUILDING & NEW ENTRANCE

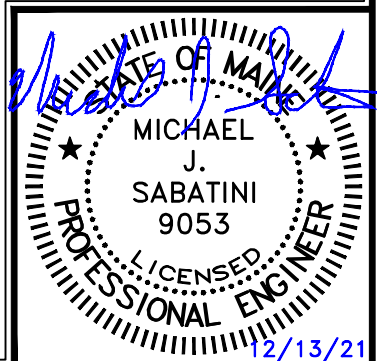
MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY
 BUREAU OF PARKS AND LANDS
 BOATING FACILITIES PROGRAM
 RICHMOND MAINTENANCE FACILITY BUILDINGS
 1009 BRUNSWICK ROAD RICHMOND, MAINE SAGadahoc COUNTY
 SCALE: 1" = 30' JOB No.: 20 - 015 SHEET: 2 OF 8

SHEET DESIGNATION:
C-2



GRID NORTH
NAD 83 MAINE EAST ZONE

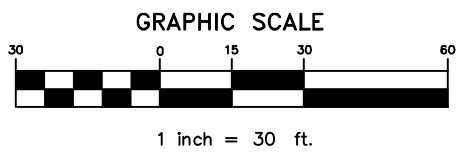
ALL SITEWORK
SHOWN ON THIS
SHEET IS IN
CARPENTRY SHOP
CONTRACT



LANDMARK CORPORATION
SURVEYORS & ENGINEERS

135 ROCKLAND STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

FIELD WORK DATE: 5/19/21
FIELD WORK BY: KMB/EST
DRAFTED BY: KMB/JML
CHECKED BY: MJS
PLAN DATE:
AUGUST 27, 2021



BGS PROJECT #PT3204
SITWORK WORK SCOPE
SITE PLAN B - CARPENTRY
SHOP & DRAINAGE OUTFALL

MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY
BUREAU OF PARKS AND LANDS
BOATING FACILITIES PROGRAM
RICHMOND MAINTENANCE FACILITY BUILDINGS
1009 BRUNSWICK ROAD RICHMOND, MAINE SAGadahoc COUNTY

SCALE: 1" = 30'
JOB No.: 20 - 015
SHEET: 3 OF 8

SHEET DESIGNATION:
C-3

REVISED DECEMBER 13, 2021

12/13/21

GENERAL NOTES

1. THESE PLANS ARE FOR IMPROVEMENTS ASSOCIATED WITH EXPANSION OF THE STATE OF MAINE NAVIGATION AIDS/BOATING FACILITIES OFFICE AND MAINTENANCE SHOP IN RICHMOND, MAINE.
2. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON EVIDENCE VISIBLE FROM ABOVE GROUND AND ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE OWNER/ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEERING OFFICE OF LANDMARK CORPORATION AT (207) 236-6757 IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADES PRIOR TO BEGINNING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC.
5. THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
6. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL LOCAL, STATE, & FEDERAL CONSTRUCTION SAFETY REGULATIONS ARE FOLLOWED DURING THE CONSTRUCTION OF THIS SITE.
8. LANDMARK CORPORATION AND PINNACLE HILL ENGINEERING ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS OR METHODS FOR CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO THE CONTRACTOR'S UTILIZATION OF PERSONNEL, MATERIALS, EQUIPMENT, OR SAFETY MEASURES IN THE PERFORMANCE OF ANY WORK FOR THIS CONSTRUCTION. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODE AND/OR REGULATORY REQUIREMENTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT FOR CONSTRUCTION AND LAYOUT SHALL BE ACCURATELY PERFORMED BY QUALIFIED PERSONNEL USING PROFESSIONAL SURVEY EQUIPMENT. CONTRACTOR MAY CONTACT LANDMARK CORPORATION SURVEYORS AND ENGINEERS FOR ASSISTANCE. DIMENSIONS NOT SHOWN ON THE PLANS MAY BE PROVIDED TO THE CONTRACTOR'S SURVEYOR IN THE FORM OF A GEOREFERENCED AUTOCAD FILE.
10. CONTRACTOR SHALL SURVEY LOCATE ALL NEW UNDERGROUND UTILITIES AND PROVIDE OWNER WITH AS BUILT INFORMATION AT THE END OF THE PROJECT.

EROSION & SEDIMENTATION CONTROL NOTES

IN ORDER TO PROTECT THE SOIL AND WATER RESOURCES OF THIS DEVELOPMENT AND ADJACENT LANDS, THE FOLLOWING ACTIONS WILL BE TAKEN:

A. EROSION CONTROL/TEMPORARY MEASURES

THE FOLLOWING TEMPORARY MEASURES TO CONTROL EROSION AND SEDIMENTATION SHALL BE USED.

1. SILT FENCE OR WOOD WASTE COMPOST/BARK FILTER BERM WILL BE INSTALLED AROUND THE LIMITS OF CLEARING ASSOCIATED WITH EACH PORTION OF THIS PROJECT. EITHER OF THESE DEVICES CAN BE USED INTERCHANGEABLY. SILT FENCE SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. SILT FENCING WILL BE INSTALLED TO SPECIFICATIONS OUTLINED IN THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES.
2. EACH GROUND AREA, OPENED OR EXPOSED, WHETHER DIRECTLY OR INDIRECTLY DUE TO THE PROJECT CONSTRUCTION, SHALL BE MINIMIZED AND SHALL BE STABILIZED WITHIN 7 DAYS OF THE LAST WORKING OF THE MINERAL SOIL, AND SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
3. TEMPORARY SOIL STABILIZATION SHALL BE EITHER BY TEMPORARY MULCHING, TEMPORARY SEEDING, OR PERMANENT BASE GRAVEL, AS FOLLOWS:

TEMPORARY SEEDING

SEED SHALL BE AROOSTOOK RYE APPLIED AT 2.60#/1000SF. LIME SHALL BE AGRICULTURAL GROUND Limestone APPLIED AT 13.8#/1000SF. FERTILIZER SHALL BE 10-10-10 CLASSIFICATION APPLIED AT 13.8#/1000SF. MULCH SHALL CONSIST OF HAY OR STRAW MULCH AND SPREAD EVENLY AT A RATE OF 70-90#/1000SF. TEMPORARY SEEDING SHALL ONLY BE MADE BETWEEN APRIL 15TH AND OCTOBER 15TH, AND SHALL NOT BE PLACED OVER SNOW. IF THE SEEDING IS NOT COMPLETED BY OCTOBER 15TH, ADDITIONAL MULCH WILL BE ADDED TO PROVIDE ADEQUATE WINTER PROTECTION.

TEMPORARY MULCHING

MULCH SHALL CONSIST OF CHOPPED HAY OR STRAW MULCH AND SPREAD BY MECHANICAL BLOWER, OR BY HAND IF ADJACENT TO WETLAND HABITAT, EVENLY AT A RATE OF 150-200#/1000 SF. TEMPORARY MULCH SHALL BE REMOVED PRIOR TO PERMANENT SOIL STABILIZATION. MULCH MUST NOT BE PLACED OVER SNOW.

PERMANENT BASE GRAVEL

BASE GRAVEL UNDER PAVEMENT SHALL BE SUITABLE AS TEMPORARY SOIL STABILIZATION UNDER THE FOLLOWING CONDITIONS:

- A. GRAVEL SHALL MEET THE SPECIFICATIONS FOR BASE GRAVEL FOR THE PROPOSED COMPLETED PAVEMENT.

B. EROSION CONTROL/PERMANENT LAWN SEEDING MEASURES

1. EXCESSIVELY STEEP SLOPES, 2:1 OR GREATER, SHALL BE PROTECTED BY EROSION CONTROL EXCELSIOR BLANKET WITH BIODEGRADABLE PLASTIC OR JUTE MESH AFTER SEEDING, EXCEPT WHERE STABLE LEDGE FACE IS ENCOUNTERED.
2. PERMANENT SEEDING SHALL BE PERFORMED DURING CONSTRUCTION OPERATIONS AS EACH DISTURBED AREA HAS BEEN BROUGHT TO FINISH GRADE. ALL NEW GRASS AREAS SHALL BE SEEDED AT THE RATE OF (8 LBS/1000SF) WITH THE FOLLOWING MIXTURE: 35% CREEPING RED FESCUE, 35% KENTUCKY BLUEGRASS, 20% CHEWINGS FESCUE, 10% PERENNIAL RYEGRASS. MULCH ALL SEEDED AREAS WITH HAY AT A RATE OF 4 BALES PER 1000 SF. REMOVE MULCH WHEN GRASS IS 3" HIGH & RESEED ALL BARE SPOTS.
3. THE CONTRACTOR SHALL MAINTAIN THE SEEDED AND MULCHED AREAS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE SHALL CONSIST OF PROVIDING PROTECTION AGAINST TRAFFIC AND REPAIRING ANY AREAS DAMAGED DUE TO WIND, WATER, EROSION, FIRE OR OTHER CAUSES. SUCH DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITION AND GRADE OF THE SOIL PRIOR TO SEEDING AND SHALL THEN BE RE-FERTILIZED, RE-SEEDED AND RE-MULCHED.

REVISED OCTOBER 19, 2021

AGGREGATE & BORROW NOTES

1. AGGREGATE FOR GRAVEL BASE AND SUBBASE,

AGGREGATE FOR GRAVEL BASE, AND GRAVEL SUBBASE SHALL BE SCREENED OR CRUSHED GRAVEL OF HARD DURABLE PARTICLES FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES. THE GRADATION OF THE PART THAT PASSES A 3 INCH SIEVE SHALL MEET THE GRADING REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVES	
	TYPE A AGGREGATE	TYPE D AGGREGATE
2 INCH	100	---
1/2 INCH	45-70	35-80
1/4 INCH	30-55	25-65
No. 40	0-20	0-30
No. 200	0-6.0	0-7.0

TYPE A AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 2 INCH SQUARE MESH SIEVE.

TYPE D AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 6 INCH SQUARE MESH SIEVE.

EACH LAYER AS APPLIED SHALL BE ROLLED WITH A 20 TON ROLLER. THE MATERIAL AS SPREAD SHALL BE WELL MIXED WITH NO POCKETS OF EITHER FINE OR COARSE MATERIAL. OVER SIZED STONES SHALL BE REMOVED FROM THE AGGREGATE.

EACH LAYER OF AGGREGATE SHALL BE PLACED OVER THE FULL WIDTH OF THE SECTION.

THE SURFACE OF EACH LAYER SHALL BE MAINTAINED DURING COMPACTION OPERATIONS IN SUCH A MANNER THAT A UNIFORM TEXTURE IS PRODUCED AND THE AGGREGATE IS FIRMLY KEYS. THE MOISTURE CONTENT OF THE MATERIAL SHALL BE MAINTAINED AT THE PROPER PERCENT TO ATTAIN THE REQUIRED COMPACTION AND STABILITY. COMPACTION OF EACH LAYER SHALL BE CONTINUED UNTIL DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY" HAS BEEN ACHIEVED FOR THE FULL WIDTH AND DEPTH OF EACH LAYER AS APPLIED.

THE SURFACE TOLERANCE OF EACH COURSE AS APPLIED SHALL BE 3/8 INCHES ABOVE OR BELOW THE REQUIRED TEMPLATE LINES.

2. COMMON BORROW

COMMON BORROW SHALL CONSIST OF EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. IT SHALL BE FREE FROM FROZEN MATERIAL, PERISHABLE RUBBISH, PEAT AND OTHER UNSUITABLE MATERIAL.

THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED COMPACTION AND STABLE EMBANKMENT. IN NO CASE SHALL THE MOISTURE CONTENT EXCEED 4 PERCENT ABOVE OPTIMUM.

GEOTEXTILE FABRIC MAY BE REQUIRED TO PROVIDE SEPARATION IF COMMON BORROW CONTAINS SIGNIFICANT VOIDS.

3. AGGREGATE FOR CRUSHED STONE 3/4-INCH

AGGREGATE FOR CRUSHED STONE 3/4-INCH SHALL BE OF QUARRIED STONE. THE AGGREGATE SHALL MEET THE GRADING REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVES
	MDOT 703.13 CRUSHED STONE 3/4-INCH
1 INCH	100
3/4 INCH	90-100
1/2 INCH	20-55
3/8 INCH	0-15
No. 4	0-5

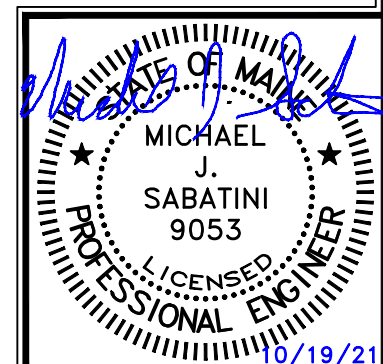
CRUSHED STONE 3/4-INCH SHALL ONLY CONTAIN PARTICLES OF ROCK THAT WILL PASS THE 1 INCH SQUARE MESH SIEVE.

4. RIPRAP

STONE FOR RIPRAP SHALL CONSIST OF HARD, SOUND DURABLE ROCK THAT WILL NOT DISINTEGRATE BY EXPOSURE TO WATER OR WEATHER. STONE FOR RIPRAP SHALL BE ANGULAR AND ROUGH. ROUNDED OR LONG THIN STONES WILL NOT BE ALLOWED. THE MAXIMUM ALLOWABLE LENGTH TO WIDTH RATIO WILL BE 3:1.

RIPRAP SIZE FOR THE PROJECT SHALL BE D50=6". THIS MEANS THAT THE AVERAGE SIZE STONE IN THE RIPRAP IS ROUGHLY 6" IN DIAMETER. MAXIMUM SIZE OF THE RIPRAP SHOULD BE 9" AND MINIMUM SIZE SHOULD BE 2".

RIPRAP SHALL BE PLACED FULL DEPTH IN ONE OPERATION AND SHALL BE PLACED APPROXIMATELY TRUE TO THE REQUIRED SLOPE LINE AND BE UNIFORM IN APPEARANCE. RIPRAP SHALL BE PLACED TO SECURE INTERLOCKING OF ALL FACE STONES AND STONES PLACED AS BACKING. RIPRAP SHALL BE PLACED ON THE SLOPE IN A WELL KNIT, COMPACT AND UNIFORM LAYER. THE SURFACE STONES SHALL BE CHINKED WITH SMALLER STONES FROM THE SAME SOURCE.



SPECIFICATIONS

THE CHECK DAMS SHALL BE INSTALLED IMMEDIATELY AFTER ROUGH GRADING OF THE DITCH OR SWALE.

THE MAXIMUM HEIGHT OF THE CHECK DAM SHOULD BE 24 INCHES. THE CENTER OF THE DAM MUST BE AT LEAST 12 INCHES LOWER THAN THE OUTER EDGE. THE DAMS SHOULD BE CONSTRUCTED OF 2 TO 3 INCH STONE.

MAINTENANCE

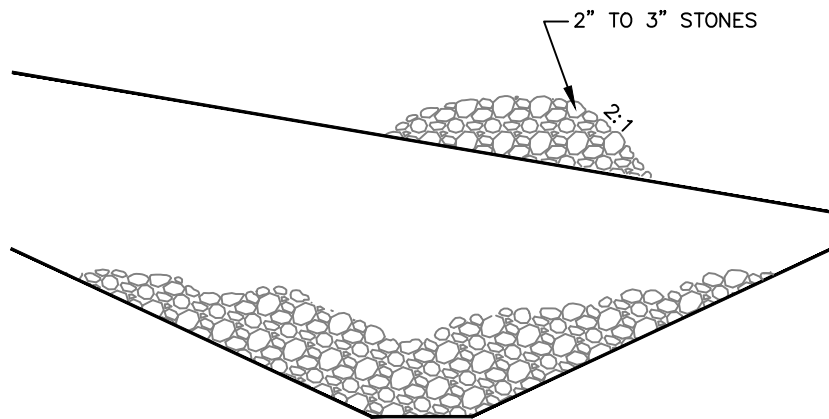
CHECK DAMS SHOULD BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL HEIGHT OR BEFORE. REGULAR INSPECTION SHOULD BE MADE TO INSURE THE CENTER OF THE DAM IS LOWER THAN THE EDGES. EROSION CAUSED BY HIGH FLOWS AROUND THE EDGES OF THE DAM SHOULD BE CORRECTED IMMEDIATELY.

REMOVAL

THE DAMS SHOULD BE REMOVED WHEN THE GRASS HAS REACHED A HEIGHT OF 12 INCHES OR MORE. THE STONES SHOULD BE REMOVED ENTIRELY OR LEVELED INTO THE BOTTOM OF THE DITCH. THE AREA BENEATH THE DAMS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE REMOVED.

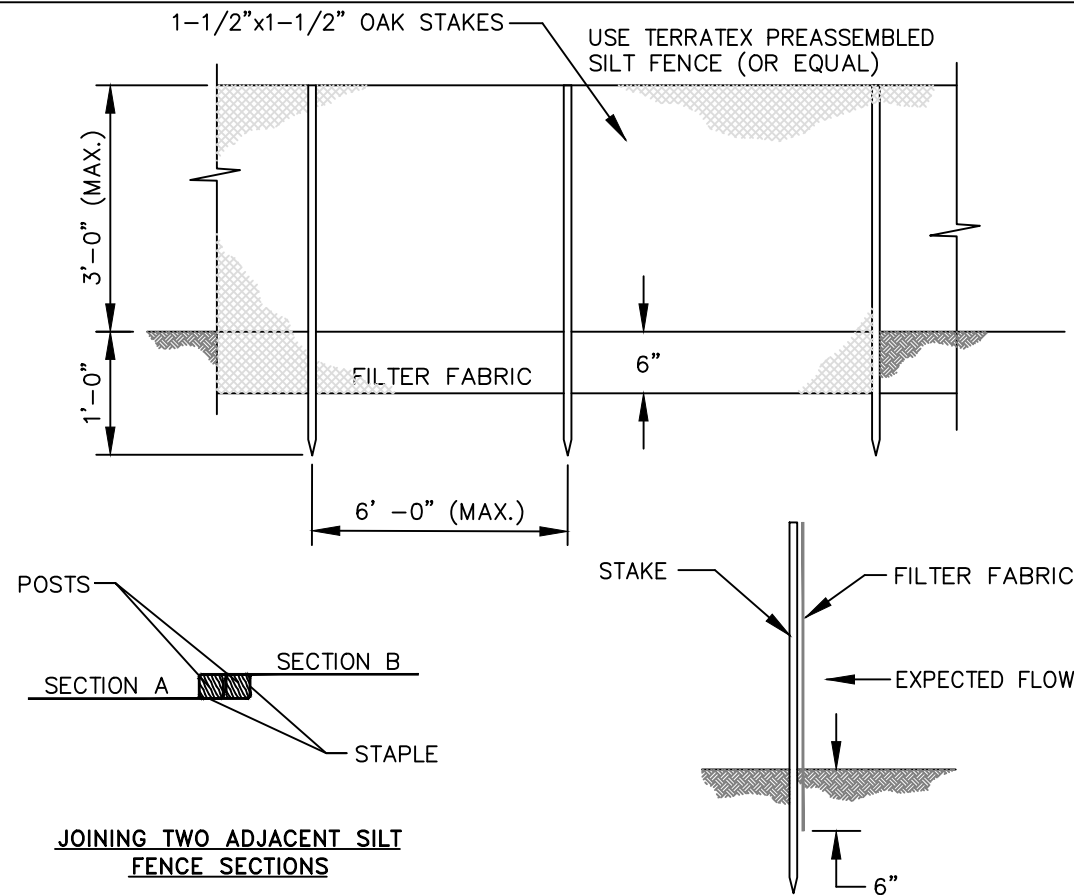
NOTE

CREATE DITCH DEPTH OF 24" IN VICINITY OF CHECK DAM



STONE CHECK DAM

NOT TO SCALE



NOTES:

SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

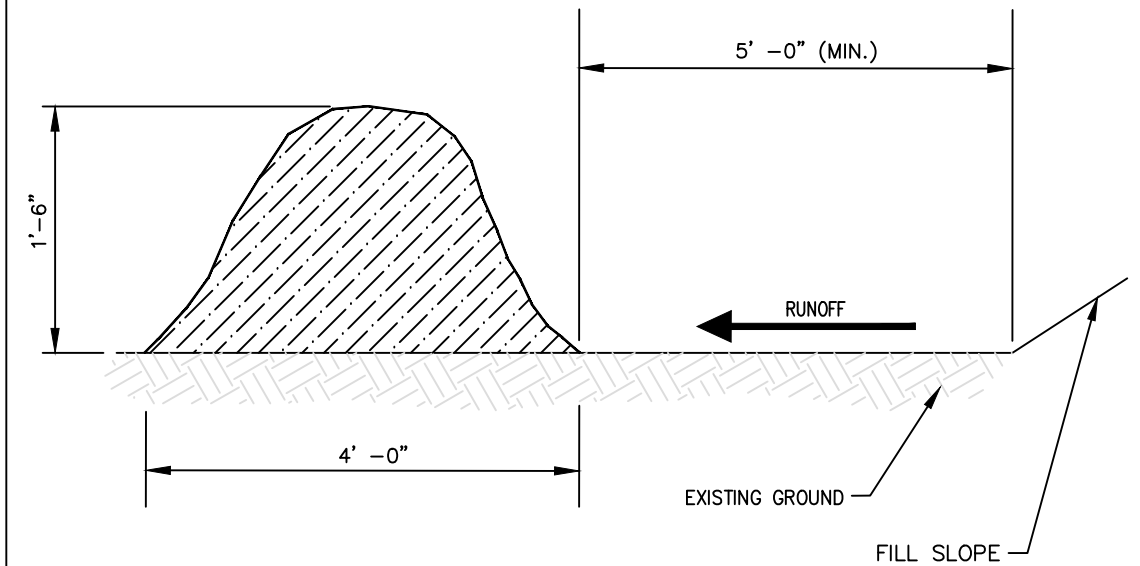
SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

SILT FENCE MAY BE USED IN PLACE OF WOOD WASTE COMPOST/BARK FILTER BERM.

SILT FENCE DETAIL

NOT TO SCALE



WOOD WASTE COMPOST/BARK FILTER BERMS

THE FILTER BERM SHALL CONSIST OF A WOOD WASTE COMPOST/BARK MULCH MIX OR RECYCLED COMPOSTED BARK FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING SYSTEMS.

THE MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:

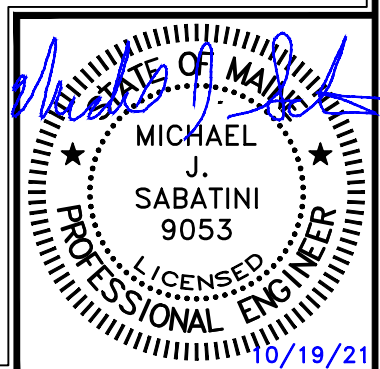
- A. MOISTURE CONTENT - 30-60%
- B. pH - 5.0-8.0
- C. SCREEN SIZE - 100% LESS THAN 3", MAXIMUM 70% LESS THAN 1".
- D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION
- E. NO STONES LARGER THAN 2" IN DIAMETER

THE COMPOSTED BERM SHALL BE PLACED, UNCOMPACTED ALONG A RELATIVELY LEVEL CONTOUR.

WOOD WASTE COMPOST/BARK FILTER BERM MAY BE USED IN PLACE OF SILT FENCE.

WOOD WASTE COMPOST/BARK FILTER BERM

NOT TO SCALE



REVISED OCTOBER 19, 2021

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**BGS PROJECT #PT3204
SITWORK WORK SCOPE
EROSION & SEDIMENTATION CONTROL DETAILS**

MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY
BUREAU OF PARKS AND LANDS
BOATING FACILITIES PROGRAM
RICHMOND MAINTENANCE FACILITY BUILDINGS
1009 BRUNSWICK ROAD RICHMOND, MAINE SAGadahoc COUNTY

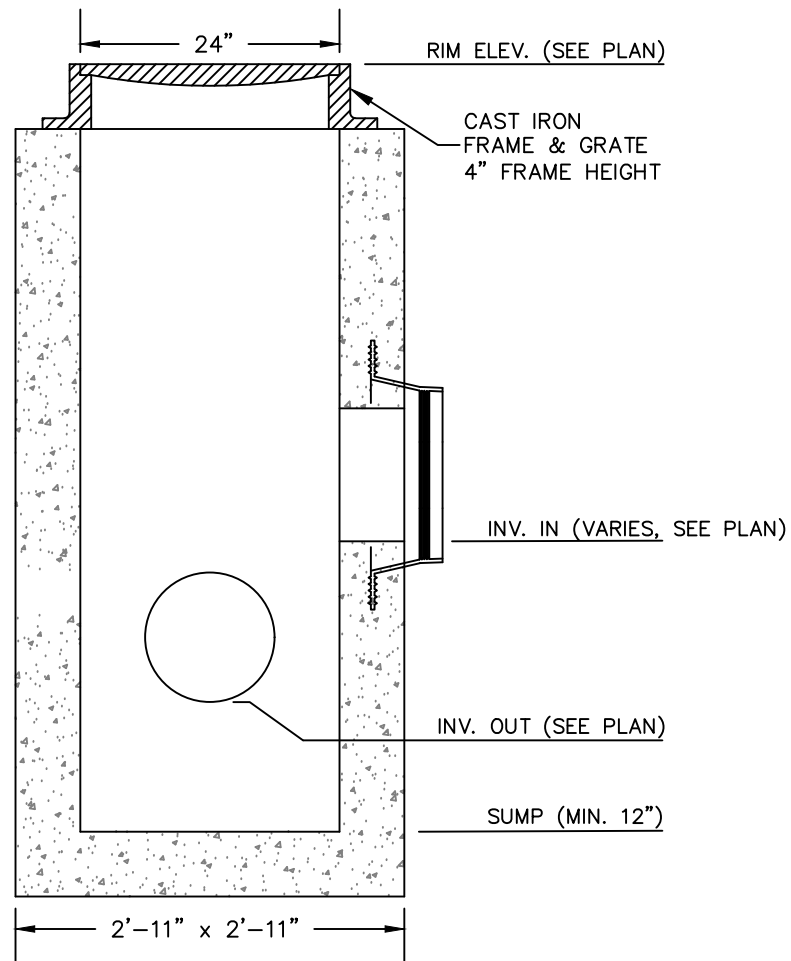
SHEET DESIGNATION:

C-5

SCALE: NTS JOB No.: 20-015 SHEET: 5 OF 8



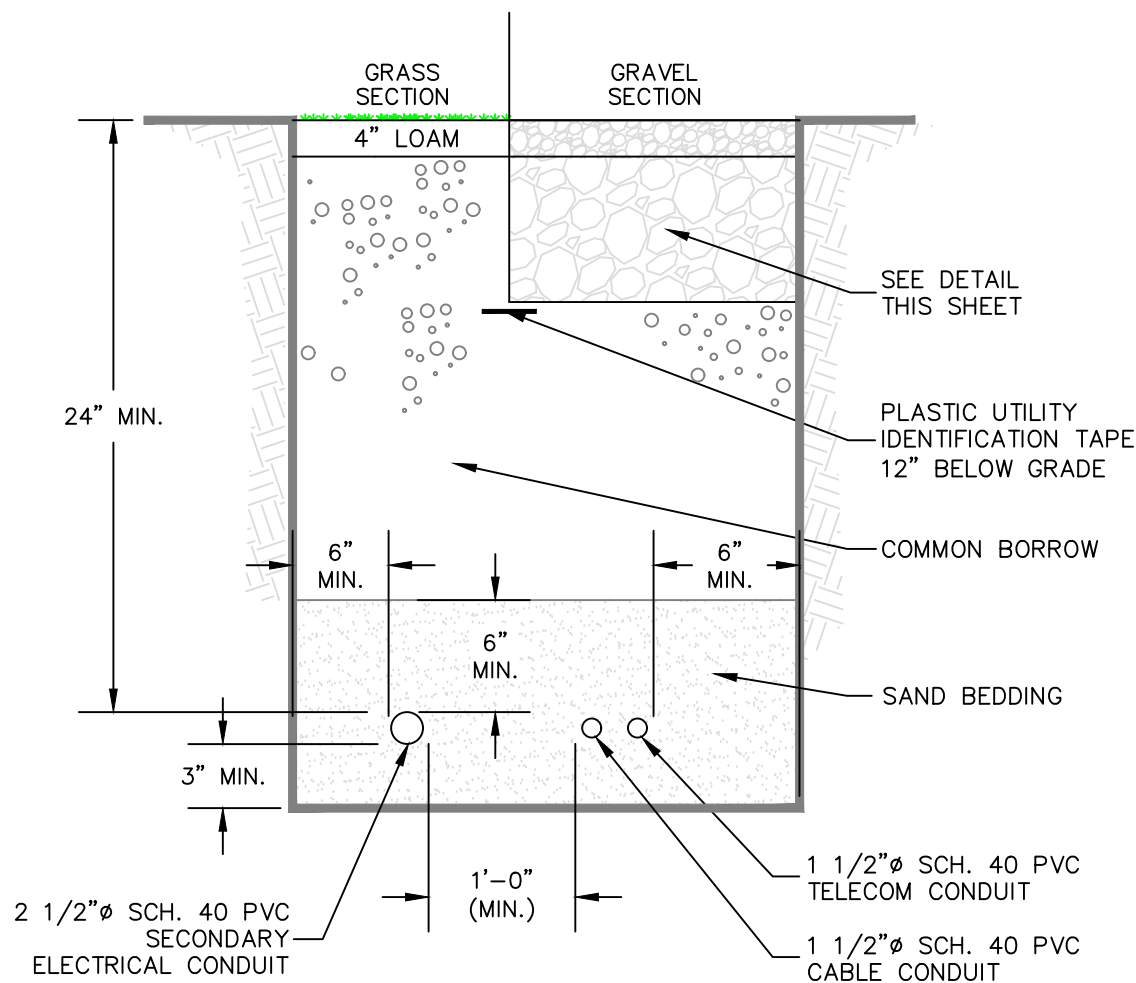
135 ROCKLAND STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM



NOTES:

1. SEE PLAN FOR ALL ELEVATIONS AND SIZES.
2. CONCRETE: 4,000 PSI AFTER 28 DAYS.
3. FRAME AND GRATE SHALL BE 4" DEEP.
4. RECOMMENDED GRATE IS ETHERIDGE FOUNDRY STANDARD GRATE OR EQUIVALENT.

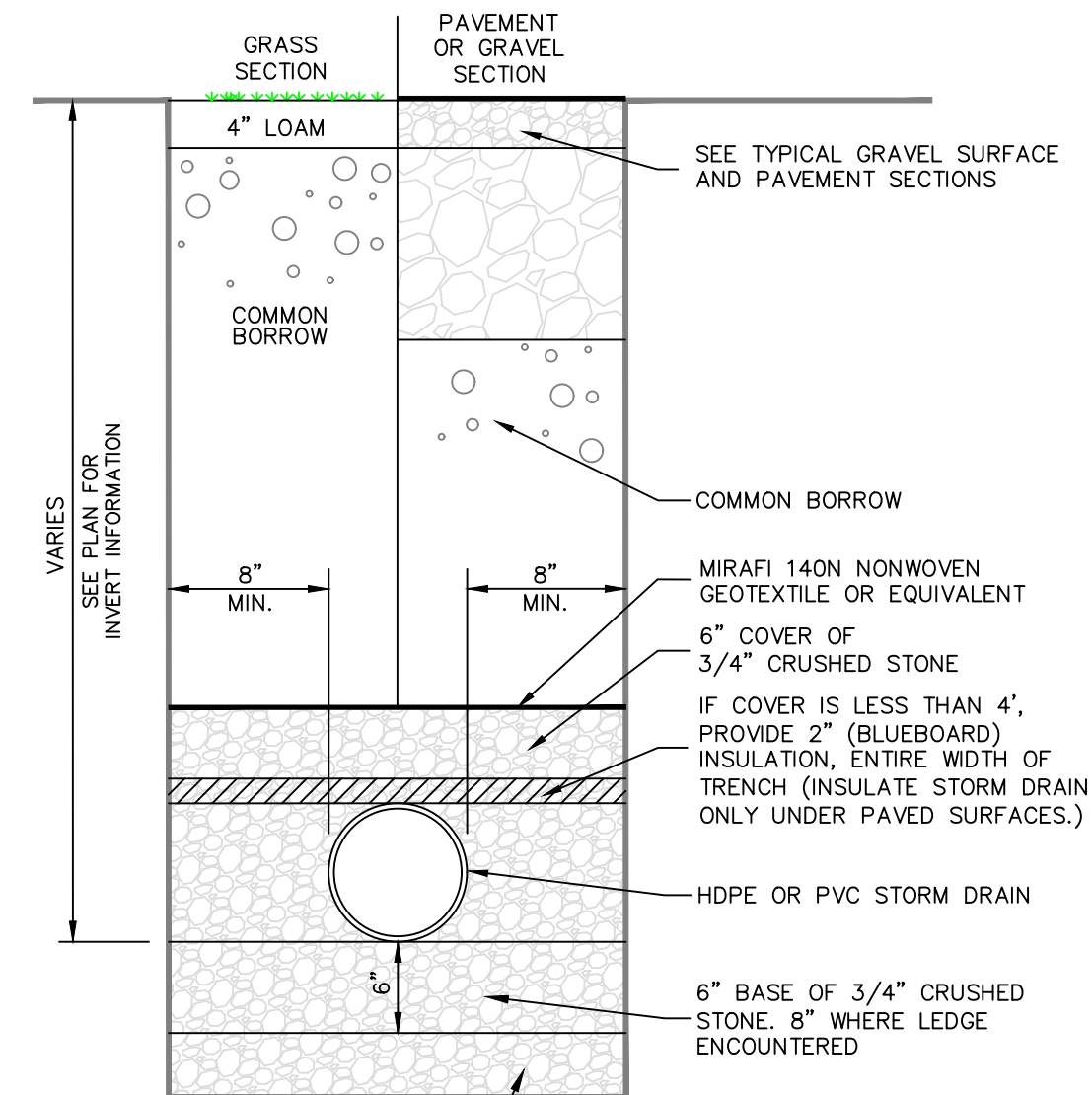
TYPE "F" CATCH BASIN
NOT TO SCALE



NOTES:

1. THIS DETAIL IS FOR THE CONDUIT TRENCH BETWEEN THE EXISTING UTILITY CONNECTION AND THE PROPOSED BUILDINGS.
2. CONDUIT NUMBER AND SIZES SHALL BE VERIFIED WITH THE ELECTRICIAN BEFORE INSTALLATION.
3. IF LEDGE IS ENCOUNTERED, REDUCTION IN COVER MAY BE ALLOWED IN ACCORDANCE WITH APPLICABLE CODES.

TYPICAL CONDUIT TRENCH SECTION
NOT TO SCALE

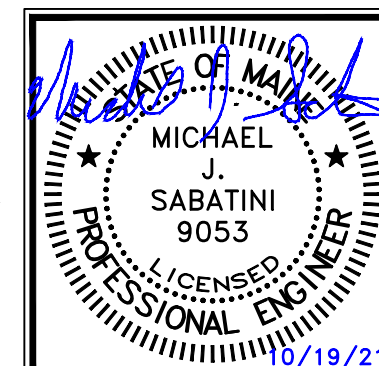


OVER EXCAVATION (WHEN UNSTABLE MATERIAL ENCOUNTERED)
3/4" CRUSHED STONE

NOTE:

SEE TYPICAL CRUSHED STONE TRENCH SECTION FOR TRENCHES WITH UNDERDRAIN. SEE PLAN FOR LOCATIONS.

TYPICAL STORM DRAIN
NOT TO SCALE



REVISED OCTOBER 19, 2021

FIELD WORK DATE:	5/19/21
FIELD WORK BY:	KMB/EST
DRAFTED BY:	JML
CHECKED BY:	MJS
PLAN DATE:	AUGUST 27, 2021

BGS PROJECT #PT3204
SITWORK WORK SCOPE
DETAILS

MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY
BUREAU OF PARKS AND LANDS
BOATING FACILITIES PROGRAM
RICHMOND MAINTENANCE FACILITY BUILDINGS
1009 BRUNSWICK ROAD RICHMOND, MAINE SAGadahoc COUNTY

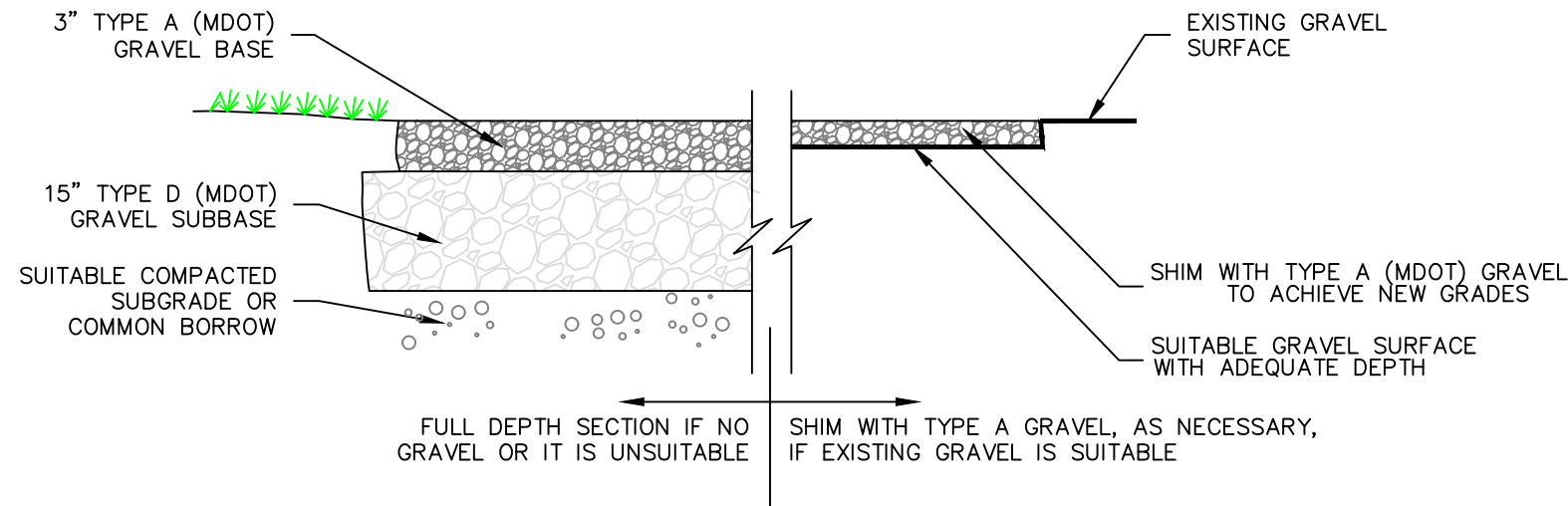
SHEET DESIGNATION:

C-6

SCALE: NTS

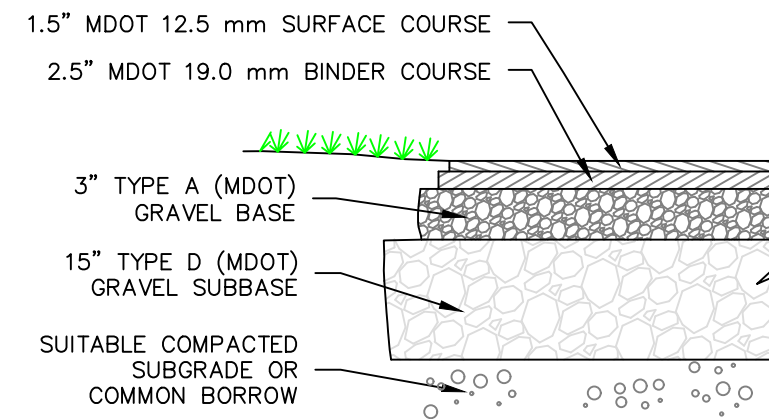
JOB No.: 20-015

SHEET: 6 OF 8



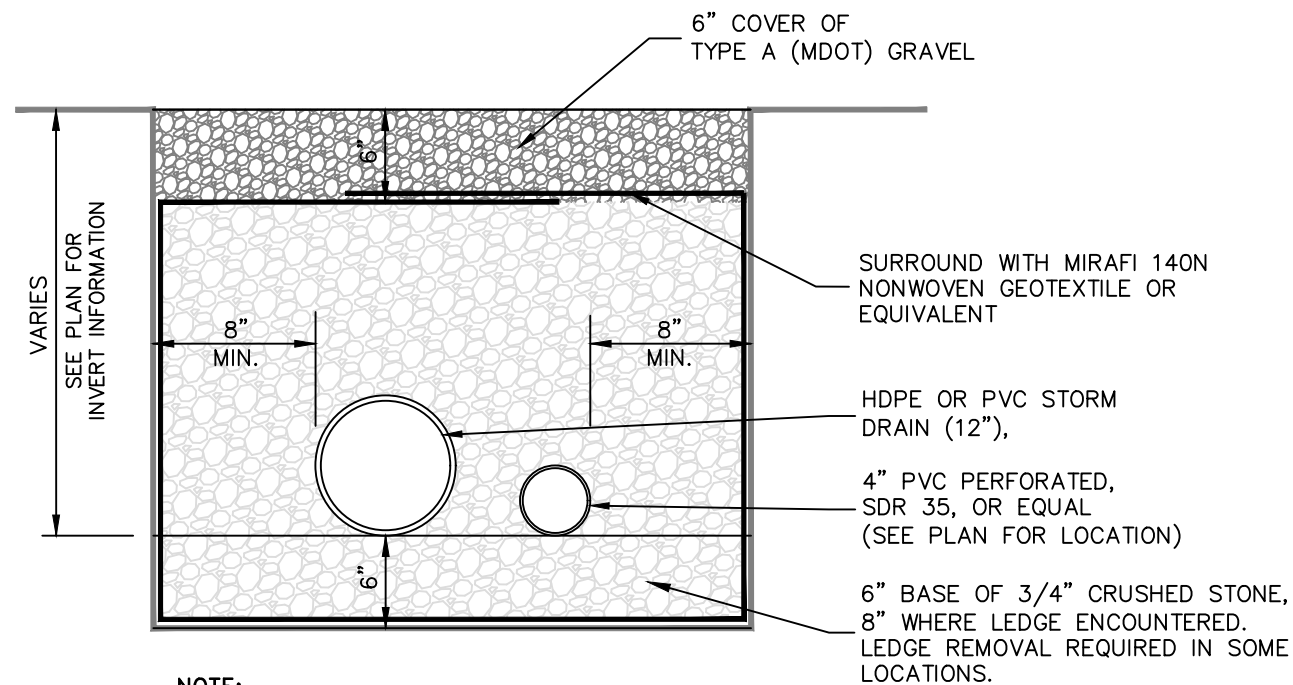
TYPICAL GRAVEL SURFACE SECTION

NOT TO SCALE



TYPICAL PAVEMENT SECTION

NOT TO SCALE

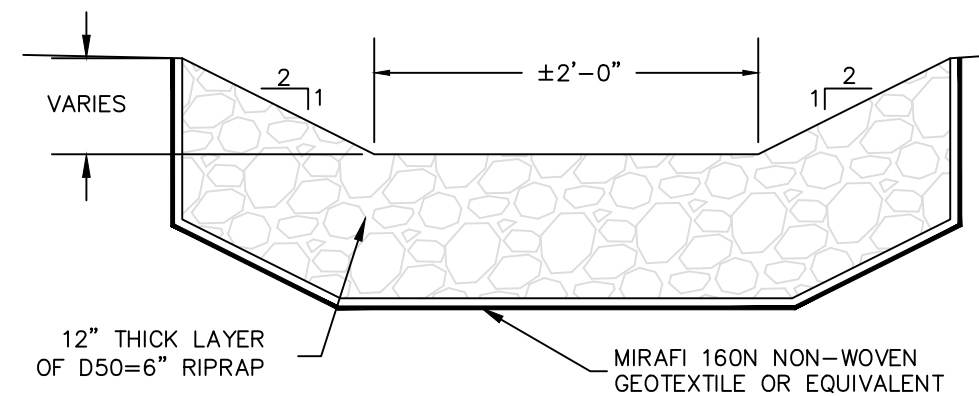


NOTE:

SEE PLAN FOR LOCATION OF CRUSHED STONE TRENCH WITH UNDERDRAIN.
SEE TYPICAL STORM DRAIN DETAIL FOR TRENCHES IN OTHER LOCATIONS.

TYPICAL CRUSHED STONE TRENCH SECTION

NOT TO SCALE

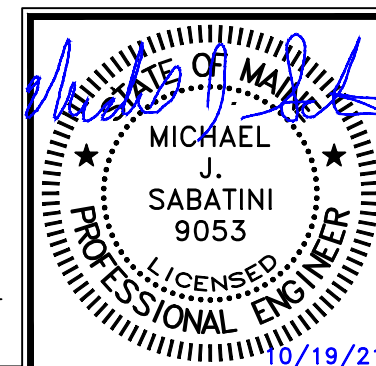


NOTES:

1. RIPRAP SIZE IN THE PROTECTION AREA SHALL CONFORM TO THE RIPRAP SPECIFICATION IN THE AGGREGATE AND BORROW NOTES ON THIS SHEET.
2. LOCATIONS OF RIPRAP CHANNEL PROTECTION SHOWN ON SITE PLAN.
3. CHANNEL SIDE SLOPES SHALL BE 2:1 UNLESS SHOWN OTHERWISE ON SITE PLAN.

TYPICAL RIPRAP CHANNEL PROTECTION

NOT TO SCALE



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FIELD WORK DATE:	5/19/21
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DRAFTED BY:	JML
CHECKED BY:	MJS
PLAN DATE:	AUGUST 27, 2021

**BGS PROJECT #PT3204
SITWORK WORK SCOPE
DETAILS**

**MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY
BUREAU OF PARKS AND LANDS
BOATING FACILITIES PROGRAM
RICHMOND MAINTENANCE FACILITY BUILDINGS
1009 BRUNSWICK ROAD RICHMOND, MAINE SAGADAHOC COUNTY**

SHEET DESIGNATION:

C-7

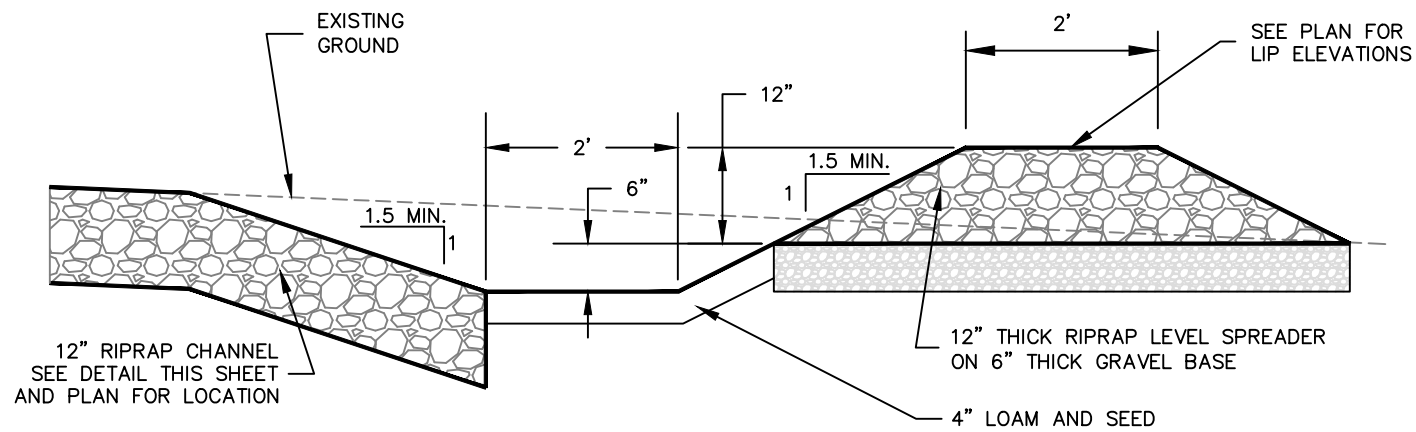


135 ROCKLAND STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

SCALE: NTS

JOB No.: 20-015

SHEET: 7 OF 8

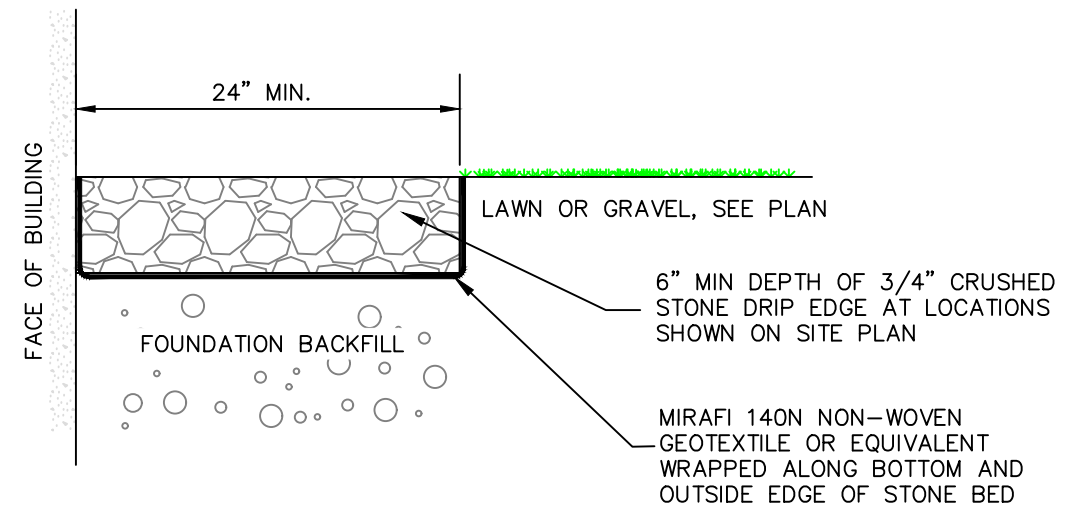


NOTES:

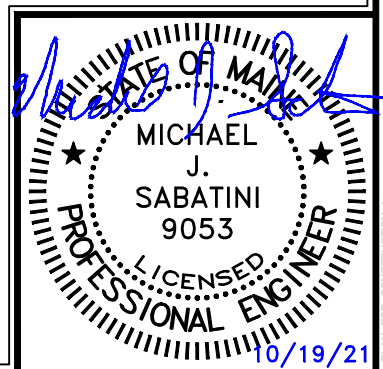
1. RIPRAP SIZE FOR LEVEL SPREADERS SHALL BE D50=6". THIS MEANS THAT THE AVERAGE SIZE STONE IN THE RIPRAP IS ROUGHLY 6" IN DIAMETER. MAXIMUM SIZE OF THE RIPRAP SHOULD BE 9" AND MINIMUM SIZE SHOULD BE 2".
2. ACTUAL LEVEL SPREADER LOCATION SHOULD BE FIELD VERIFIED.

LEVEL SPREADER DETAIL
NOT TO SCALE

REVISED OCTOBER 19, 2021



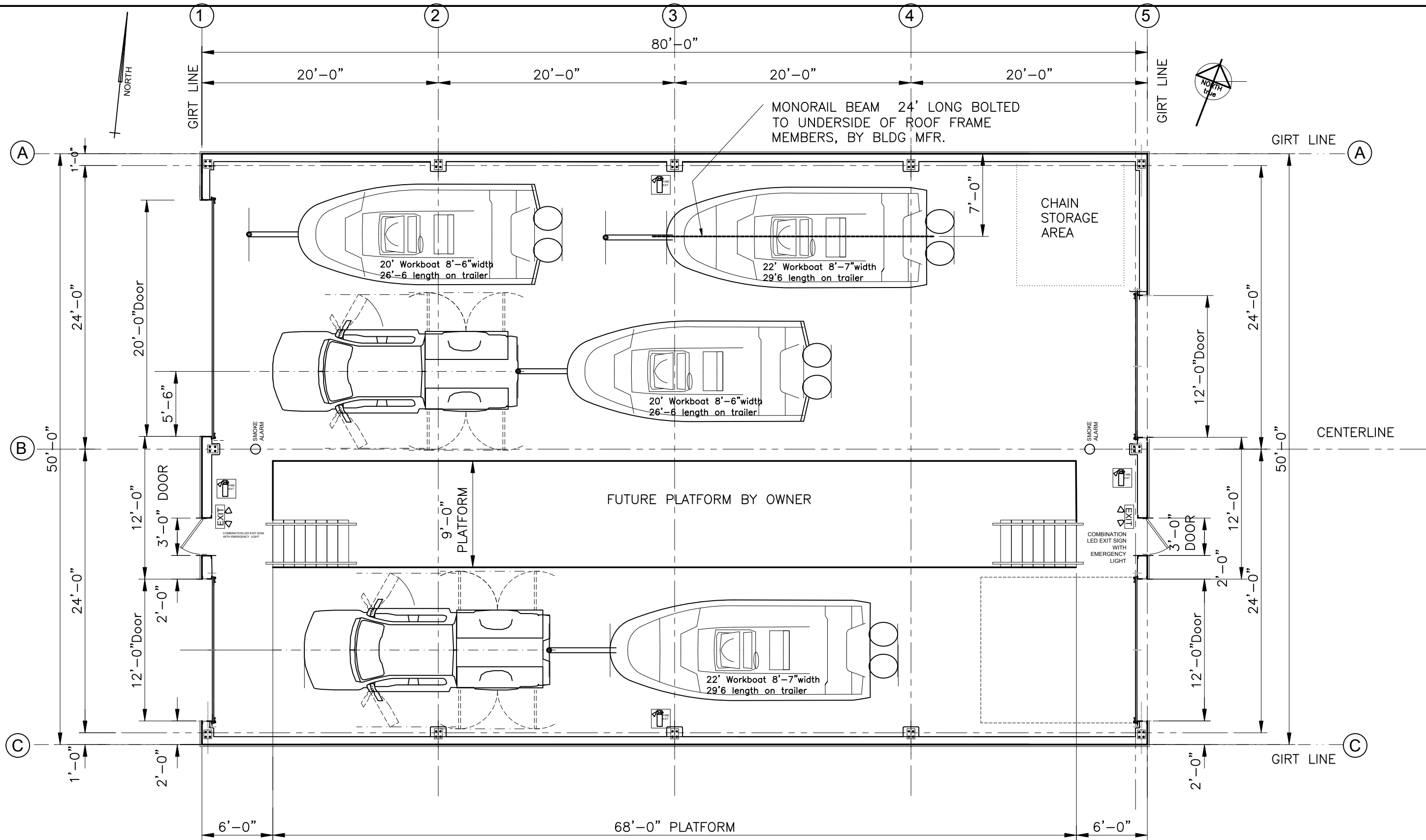
DRIP EDGE DETAIL
NOT TO SCALE



1:1/1 - FULL SCALE

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE IN FEET AND INCHES. DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE SPECIFIED.

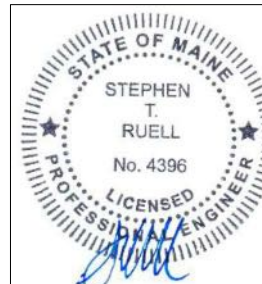
AUG 14, 2011



FLOOR PLAN - METAL FRAME OPTION

DOOR NOTES:

1. ALL OVERHEAD DOORS SHALL BE OVERHEAD DOOR THERMACORE Nodel 591 OR APPROVED EQUAL, TO BE SUPPLIED WITH STANDARD LIFT TRACK KITS AND COMMERCIAL GRADE OPERATORS WITH REMOTE CONTROLS. COORDINATE BUILDING FRAME STRUCTURE DIMENSIONS WITH TRACK CLEARANCE REQUIREMENTS
2. MANDOORS SHALL BE 3'-0" X 6'-8" STANDARD COMMERCIAL GRADE FIBERGLASS DOORS WITH COMPOSITE FRAMES, HALF GLASS, STAINLESS STEEL BALL BEARING HINGES, AND YALE 4701LN GRADE 1 LEVER STYLE PASSAGE SET. OWNER WILL SUPPLY THE DEAD BOLT LOCK FOR INSTALLATION BY CONTRACTOR AND WILL PAINT THE DOORS AND FRAMES. COORDINATE WITH OWNER,



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1	ISSUED FOR BID	5-11-22

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STR
DRAWN BY
STR
DATE REVISED
5-11-2022

Maine Department of Agriculture, Conservation and Forestry
Bureau of Parks and Lands
Richmond Maintenance Facility

**Nav Aids Storage Building
FLOOR PLAN
METAL FRAME OPTION**

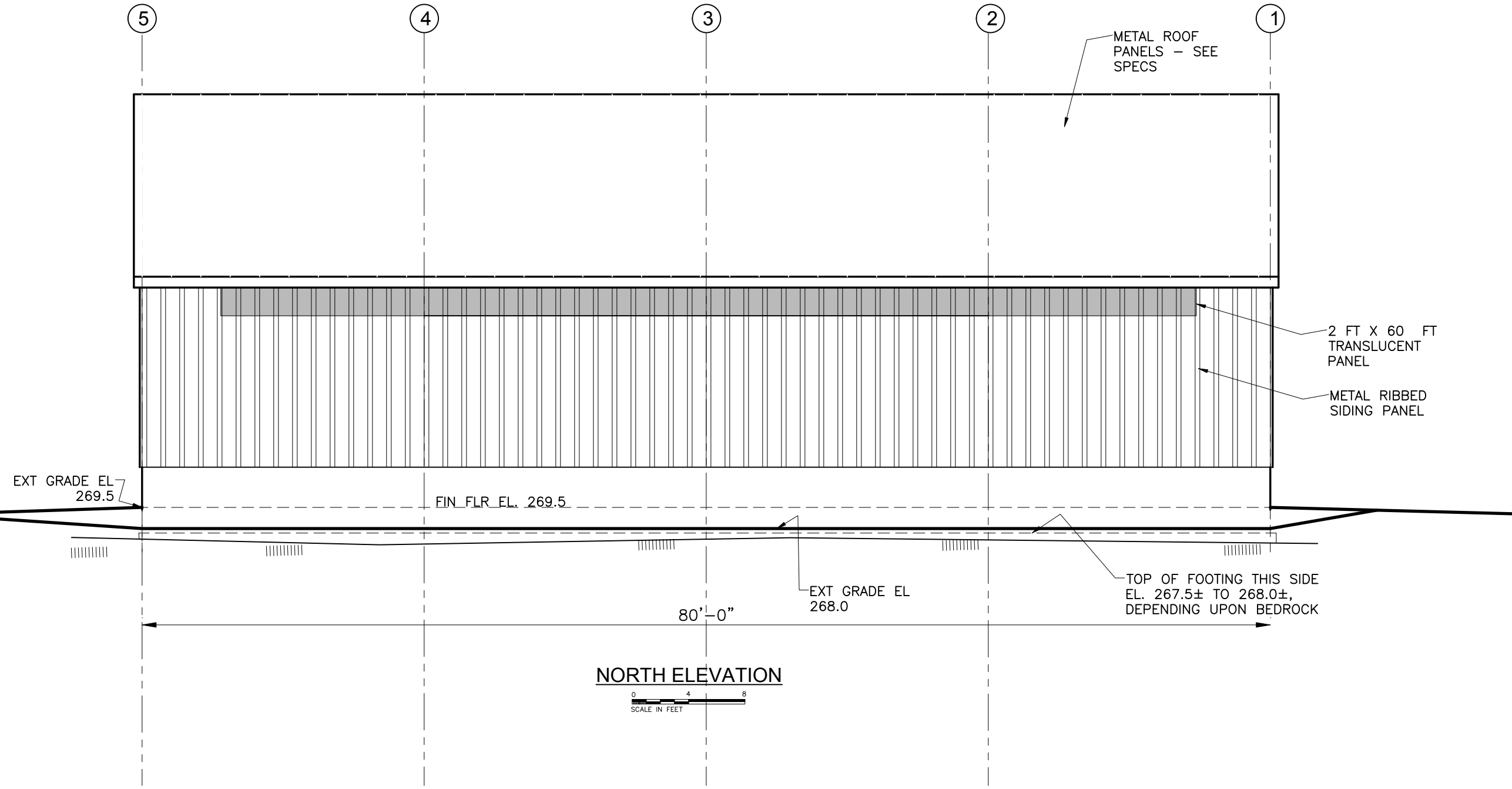
Pinnacle Hill Engineering
33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

**A-1
REV. 1**

11A17 - FULL SCALE

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

AUG 2011

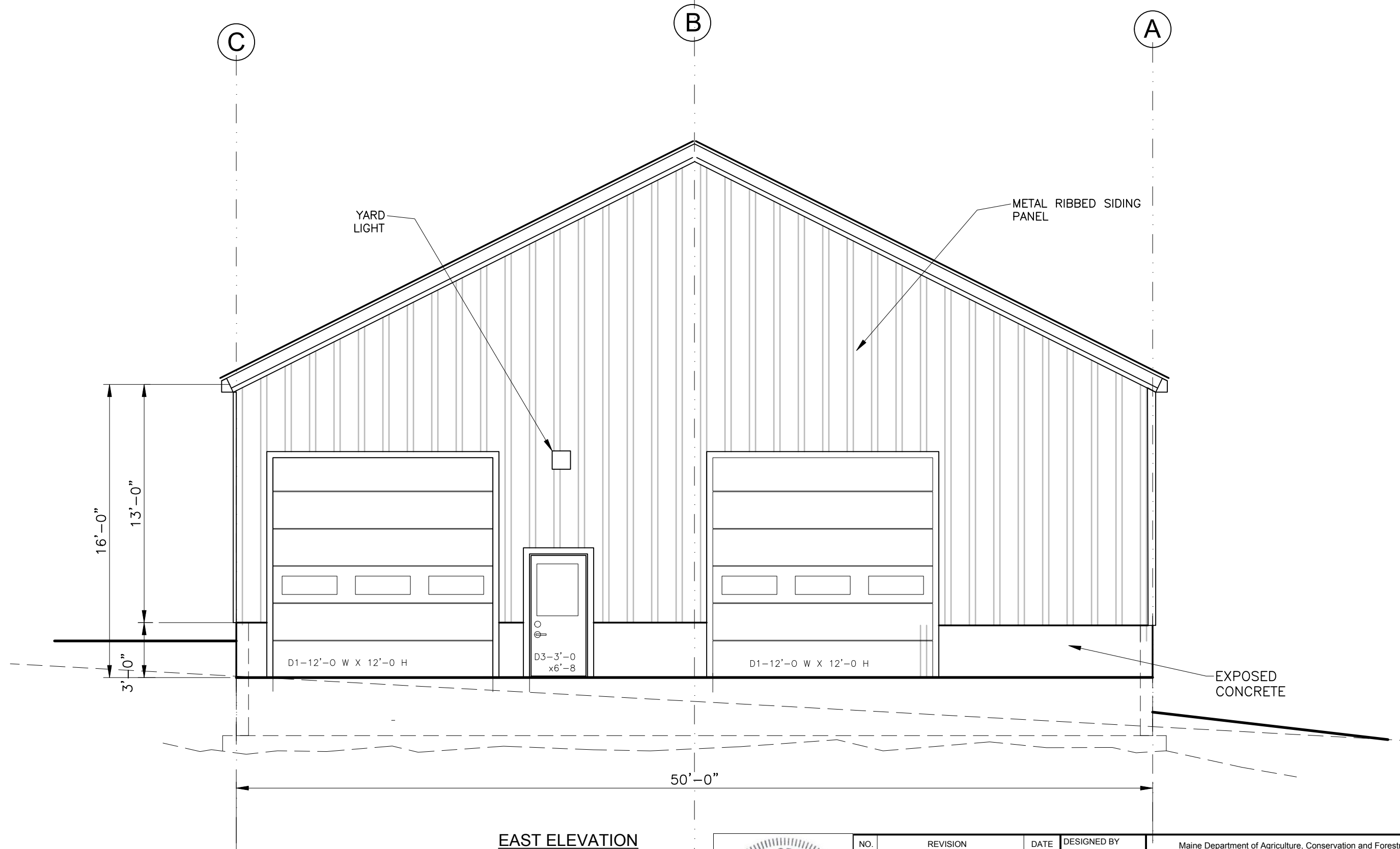


NORTH ELEVATION

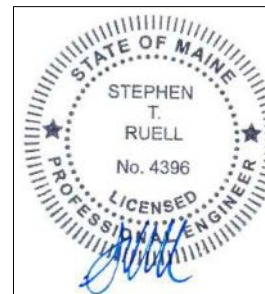


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DRAWN BY STR	
DATE REVISED 5-11-2022	Nav Aids Storage Building BUILDING NORTH EXTERIOR ELEVATION
PINNACLE HILL ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
	A-2 REV. 1



EAST ELEVATION



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5-11-2022

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PinnacleHillEngineering@gmail.com
33 Pinnacle Road
Canaan, ME 04924

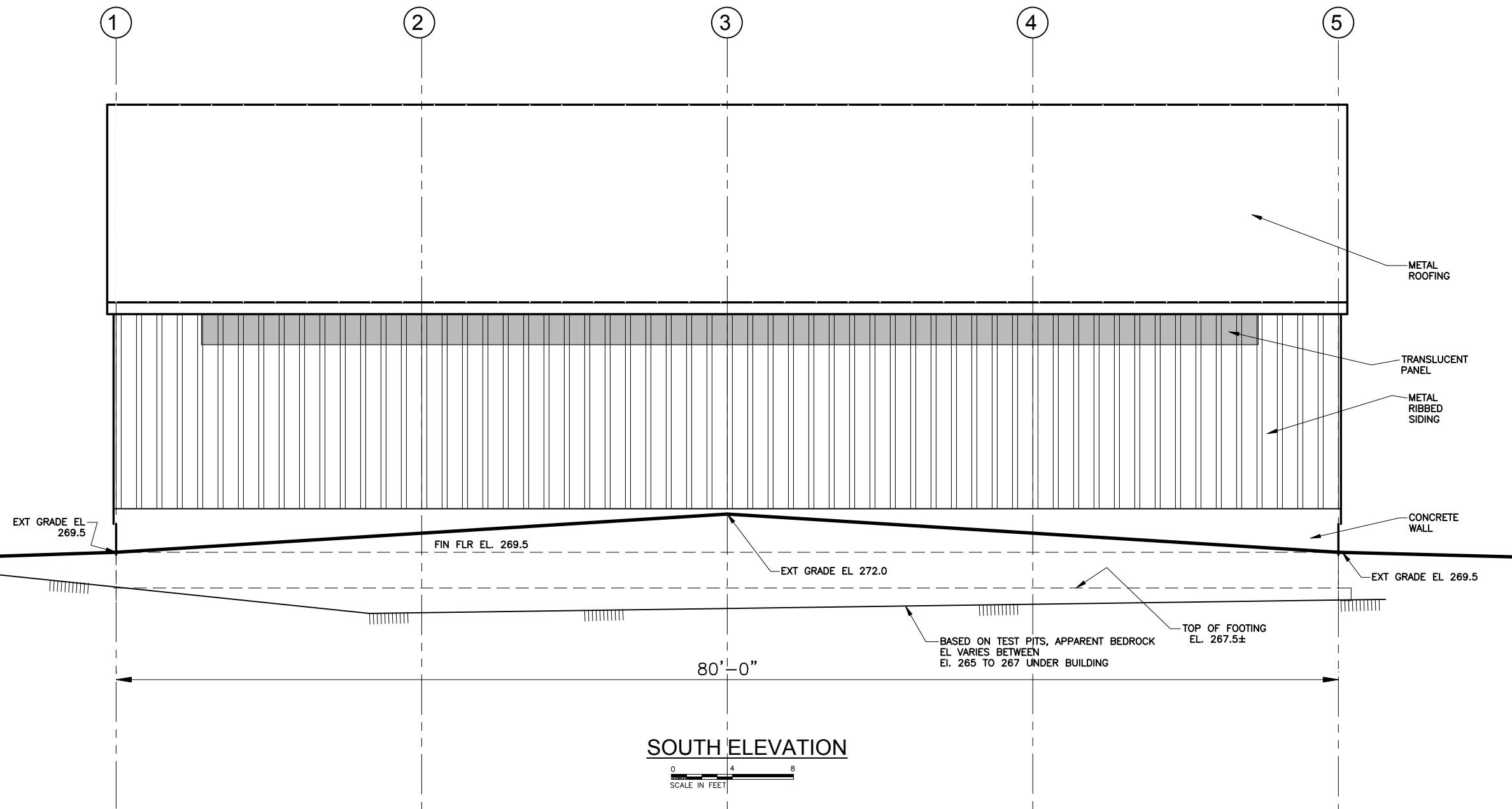
Maine Department of Agriculture, Conservation and Forestry
Bureau of Parks and Lands
Richmond Maintenance Facility
Nav Aids Storage Building
BUILDING EAST EXTERIOR ELEVATION

A-3
REV. 1

11A17 - FULL SCALE

UNDESIGNED OR UNCALCULATED DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.

AU 10-20-2011



SOUTH ELEVATION

0 4 8
SCALE IN FEET



NO.	REVISION	DATE
1	ISSUED FOR BID	5-11-22

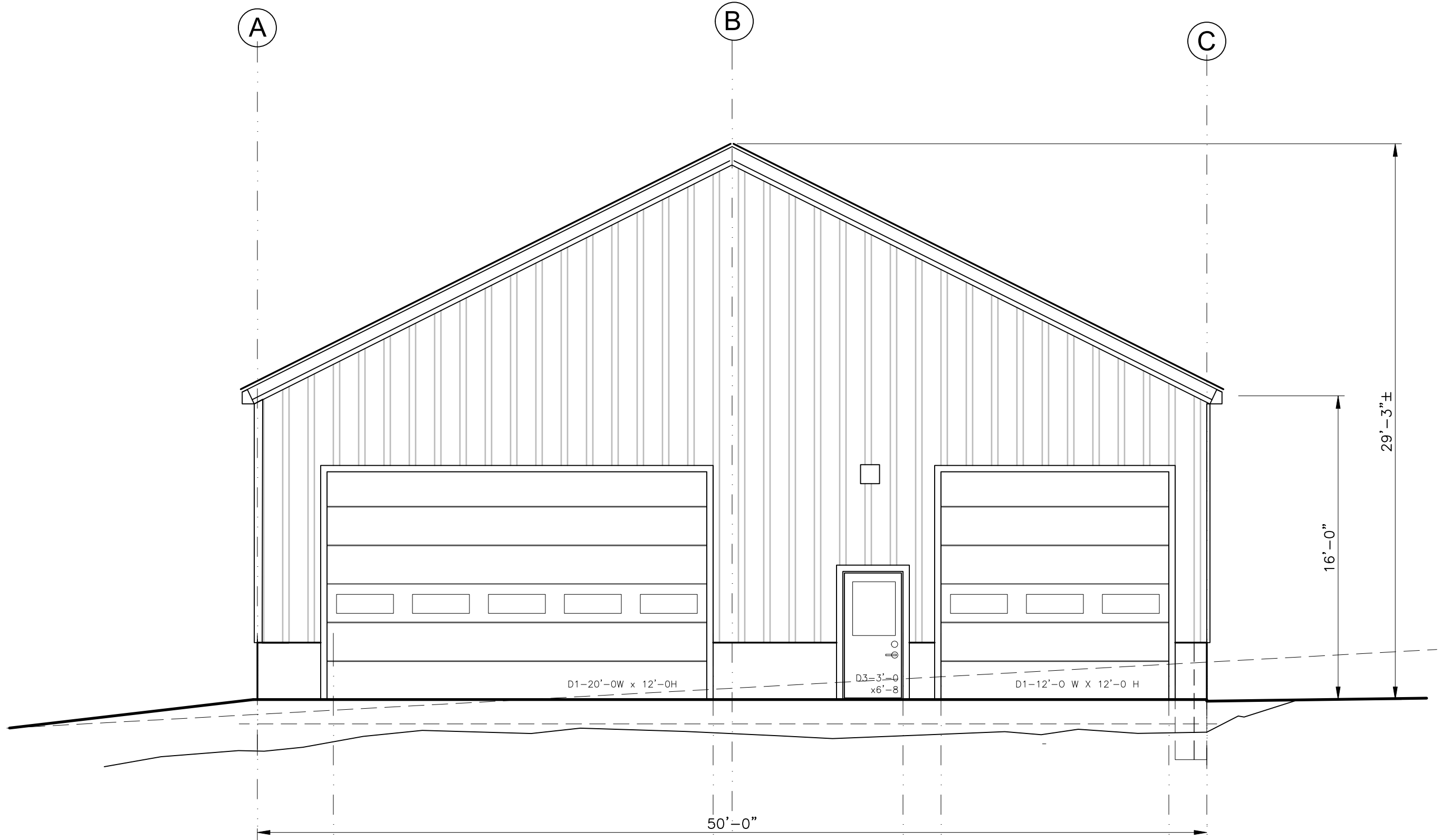
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-
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-
DATE REVISED
5-11-2022

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Bureau of Parks and Lands
Richmond Maintenance Facility

**Nav Aids Storage Building
BUILDING SOUTH EXTERIOR ELEVATION**

PINNACLE HILL ENGINEERING 33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

A-4
REV. 1



WEST ELEVATION



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**Nav Aids Storage Building
BUILDING WEST EXTERIOR ELEVATION**

Pinnacle Hill Engineering 33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

**A-5
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PRE-ENGINEERED BUILDING NOTES

1. Building Manufacturer shall have a minimum of 5 years commercial production of buildings of similar size and quality and shall be responsible for providing a complete building including design of all components, and including complete doors and door operators.

Building supplier shall coordinate, design, fabricate, supply and install a complete package with all components including all necessary connectors, fasteners, anchor bolts, doors, door operators, bracing and instructions for erection of building, including temporary and permanent bracing, and any sealants or adhesives needed during installation.

2. Design per IBC Code Latest Edition adopted in the jurisdiction.

3. Design Loads

Design Snow load = 47 psf per ASCE 7.
Using ground snow load $P_g = 70$ psf, $I = 1.0$, $C_e = 1.0$, $C_t = 1.2$, $C_s = 0.8$ for unheated, unobstructed slippery roof, Design for unbalanced and balanced loads

Design Wind load per ASCE 7. Wind speed 85 mph, Exposure C

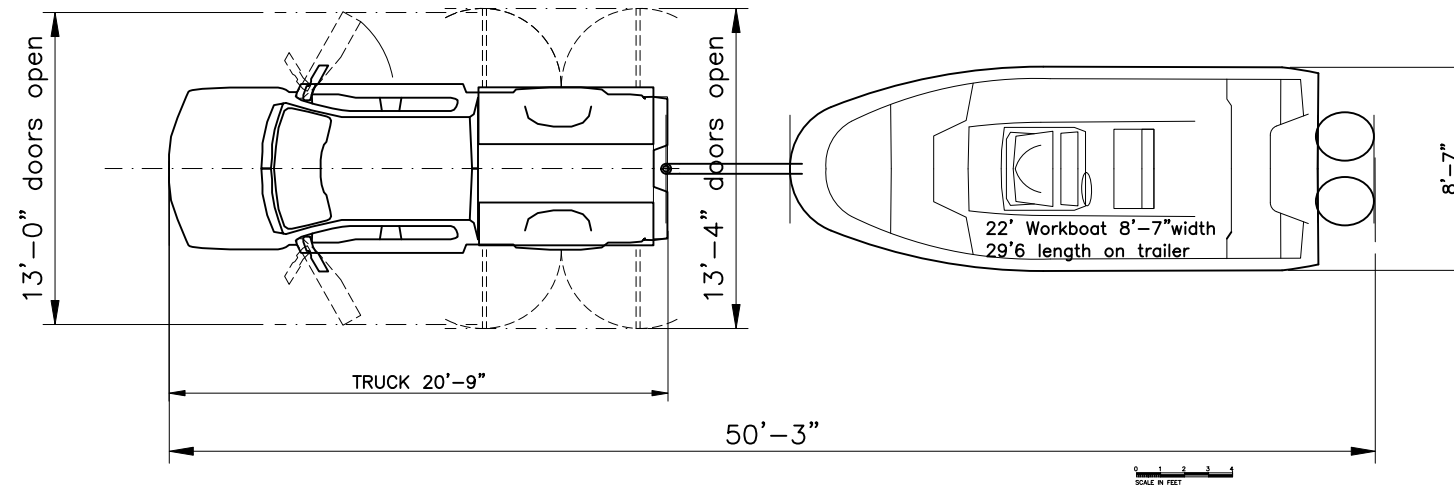
Roof design shall include a superimposed dead load = 12 psf in addition to the building dead weight as supplied.

Temporary Roof Live Load 25 psf during construction

4. Submit shop drawings to Owner and Engineer prior to start of fabrication. The final details of the foundation will be dependent upon the building engineering and loads of the building and must be provided in sufficient time to allow completion of the foundation design before construction.

5. Monorail

Provide one steel monorail beam as shown on the plan, supported from roof structure, 24 feet long and rated for 6000 lbs capacity either as single point load anywhere on the beam or two points loads of 3000 lbs 15 feet apart. Bracing and hangers designed by building mfr. Provide two 2 ton 4 wheel trolleys and trolley end stops. Paint to match other structural steel. Provide painted label of beam capacity on both sides as required by OSHA. Monorail load may be occur coincident with snow load.



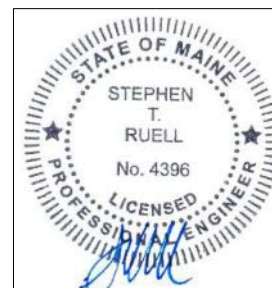
BUILDING DESIGN VEHICLE

CONCRETE NOTES

- ALL FOOTING CONCRETE IS PLACED DIRECTLY AGAINST ROCK SURFACES CLEANED TO REMOVE DIRT OR LOOSE ROCK.
- CONCRETE: 4000 PSI @ 28 DAYS, AIR ENTRAINED 5% TO 7%
- REINFORCEMENT: 60,000 PSI, ASTM A615
- HOOKS: ACI STANDARD
- REBAR COVER: 2" UNLESS NOTED OTHERWISE
- ANCHOR BOLTS AND ATTACHMENT OF PRE ENGINEERED BUILDING COMPONENTS SHALL BE PROVIDED BY THE BUILDING MFR.
- CONCRETE ANCHORS UNLESS OTHERWISE SPECIFIED: HILTI "HAS" SUPER OR STD ADHESIVE ANCHOR OR APPROVED EQUAL. INSTALL TO MANUFACTURER'S RECOMMENDED DEPTH FOR ANCHOR SIZE.
- MOIST CURE MINIMUM OF 7 DAYS. CONFORM TO ACI 301 AND ACI 318 FOR CONSTRUCTION METHODS, AND PLACEMENT SPECIFICATIONS. DO NOT USE LIQUID CURING AGENTS WHICH WILL INHIBIT BOND OF FUTURE FLOOR COATINGS UNLESS NOTED OTHERWISE PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES.
- FIELD BEND REINFORCING BARS TO CLEAR INCIDENTAL BOXOUTS WHERE REQUIRED.
- VERTICAL CONCRETE SURFACES SHALL HAVE A SMOOTH FORMED FINISH. FILL AIR HOLES AND VOIDS LARGER THAN 1/4". REMOVE FINNS AND DRESS SURFACE, FILL AIR POCKETS AND RAT HOLES. SNAP TIES SHALL BE REMOVED TO BELOW SURFACE AND HOLE FILLED.
- HORIZONTAL CONCRETE SURFACES ON INTERIOR SHALL HAVE A SMOOTH STEEL TROWEL FINISH (U.N.O.).
- HORIZONTAL CONCRETE SURFACES ON EXTERIOR SHALL HAVE A WOOD FLOAT OR BROOM FINISH (U.N.O.).

FINISHES

- IT IS THE OWNERS INTENT THAT FIELD PAINTING WILL NOT BE REQUIRED EXCEPT FOR THE FLOOR.
- ALL METAL SIDING, ROOFING, AND TRIM WILL BE SHOP PAINTED AS SPECIFIED. METAL STRUCTURAL AND FRAMING MEMBERS SHALL BE SHOP PRIMED WITH GRAY PRIMER, BOLTS SHALL BE GALVANIZED OR PLATED TO PREVENT RUSTING.
- ALL DOORS SHALL BE FACTORY PREFINISHED IN THE COLOR SELECTED BY THE OWNER FROM THE MFR STANDARD COLORS..
- ALL COMPONENTS SHALL BE PROTECTED THROUGHOUT DELIVERY, STORAGE AND INSTALLATION. ANY FIELD TOUCHUP REQUIRED FOR DAMAGED COATINGS, SHALL BE DONE BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
- IF THE BID ALTERNATE IS ACCEPTED, THE CONCRETE FLOOR SHALL RECEIVE AN EPOXY FLOOR COATING WITH NON-SLIP AGGREGATE AND URETHANE TOP COAT. SEE SPECIFICATIONS.

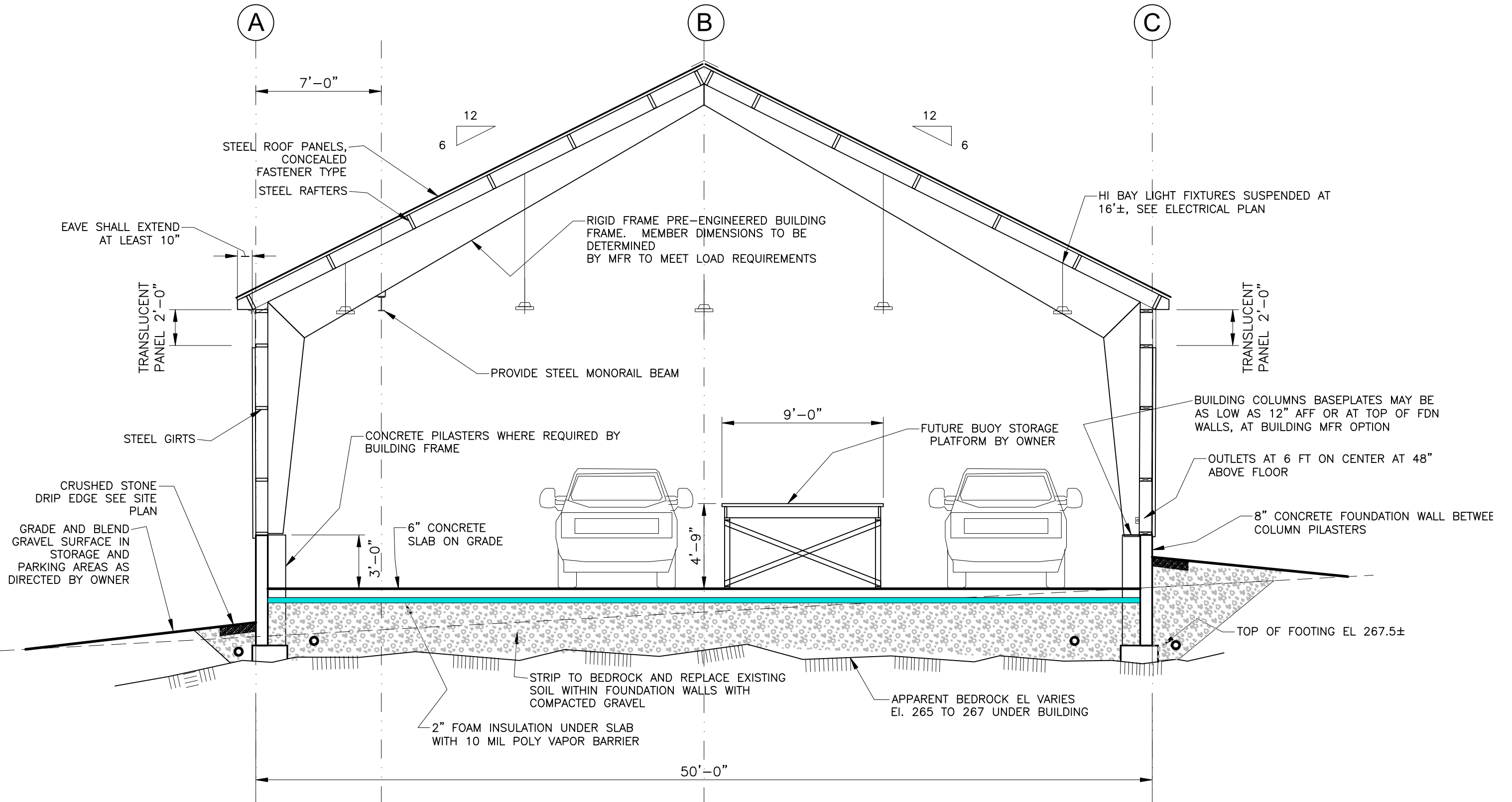


<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> <th>DESIGNED BY</th> <th rowspan="2"> Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility </th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ISSUED FOR BID</td> <td>5-11-22</td> <td>STR</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	REVISION	DATE	DESIGNED BY	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility	1	ISSUED FOR BID	5-11-22	STR												Nav Aids Storage Building BUILDING GENERAL NOTES
	NO.	REVISION	DATE	DESIGNED BY		Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility															
	1	ISSUED FOR BID	5-11-22	STR																	
			Pinnacle Hill ENGINEERING 33 Pinnacle Road Canaan, ME 04924 PinnacleHillEngineering@gmail.com	A-6 REV. 1																	

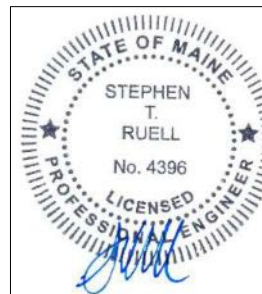
11A17 - FULL SCALE

DESIGNED BY: PINE HILL ENGINEERING, INC. DRAWN BY: PINE HILL ENGINEERING, INC. CHECKED BY: PINE HILL ENGINEERING, INC. DATE: 5-11-2022

AU 10-2011



**BUILDING TRANSVERSE SECTION
METAL FRAMED OPTION**



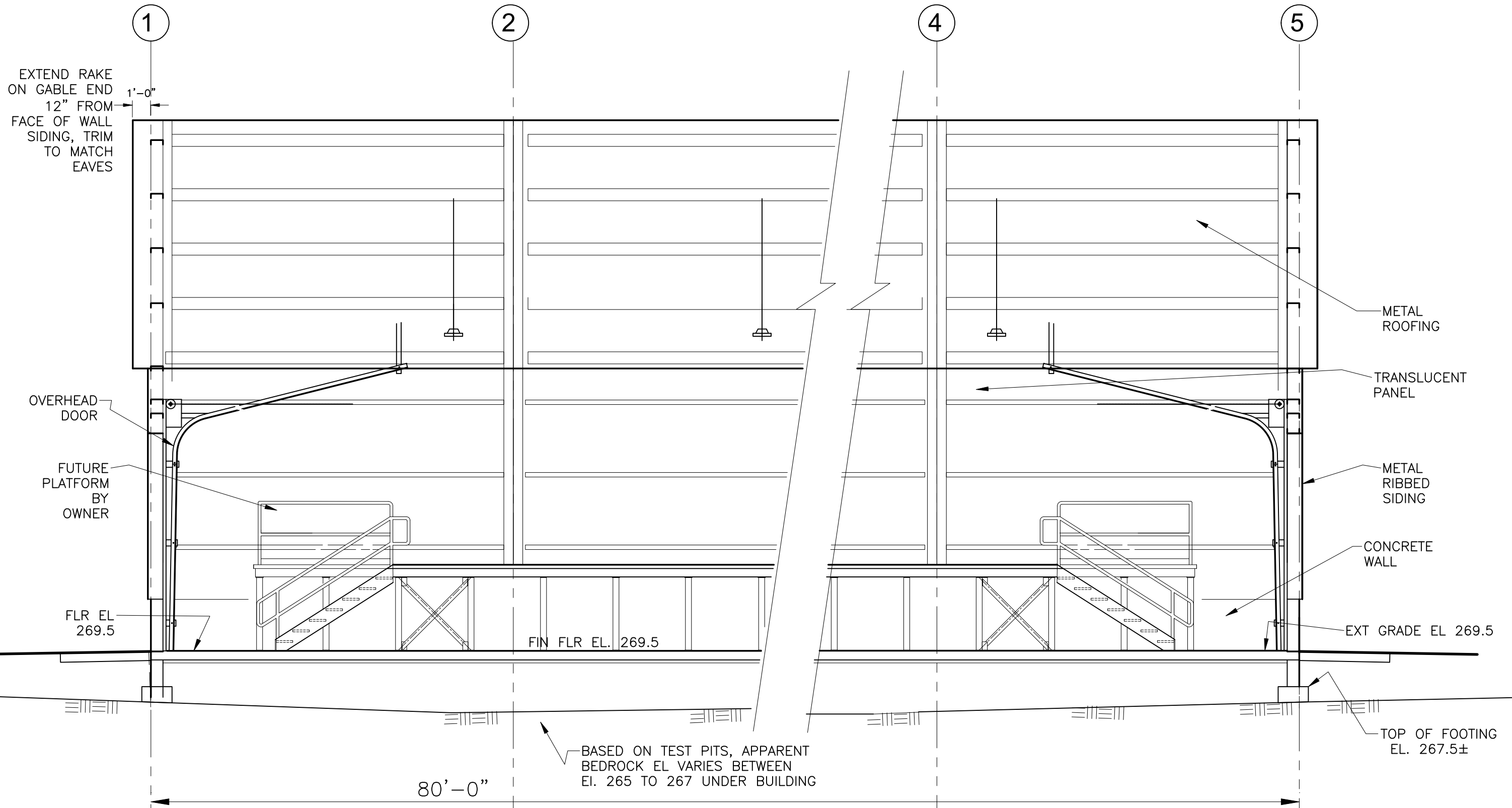
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DRAWN BY	
DATE REVISED	5-11-2022
Nav Aids Storage Building BUILDING CROSS SECTION METAL FRAME OPTION	
Pinnacle Hill Engineering PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
A-7 REV. 1	

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EXTEND RAKE
ON GABLE END
12" FROM
FACE OF WALL
SIDING, TRIM
TO MATCH
EAVES

1

2

4

5

OVERHEAD
DOOR

FUTURE
PLATFORM
BY
OWNER

FLR EL.
269.5

FIN FLR EL. 269.5

METAL
ROOFING

TRANSLUCENT
PANEL

METAL
RIBBED
SIDING

CONCRETE
WALL

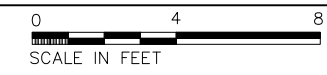
EXT GRADE EL. 269.5

TOP OF FOOTING
EL. 267.5±

BASED ON TEST PITS, APPARENT
BEDROCK EL VARIES BETWEEN
EL. 265 TO 267 UNDER BUILDING

80'-0"

BUILDING LONGITUDINAL SECTION



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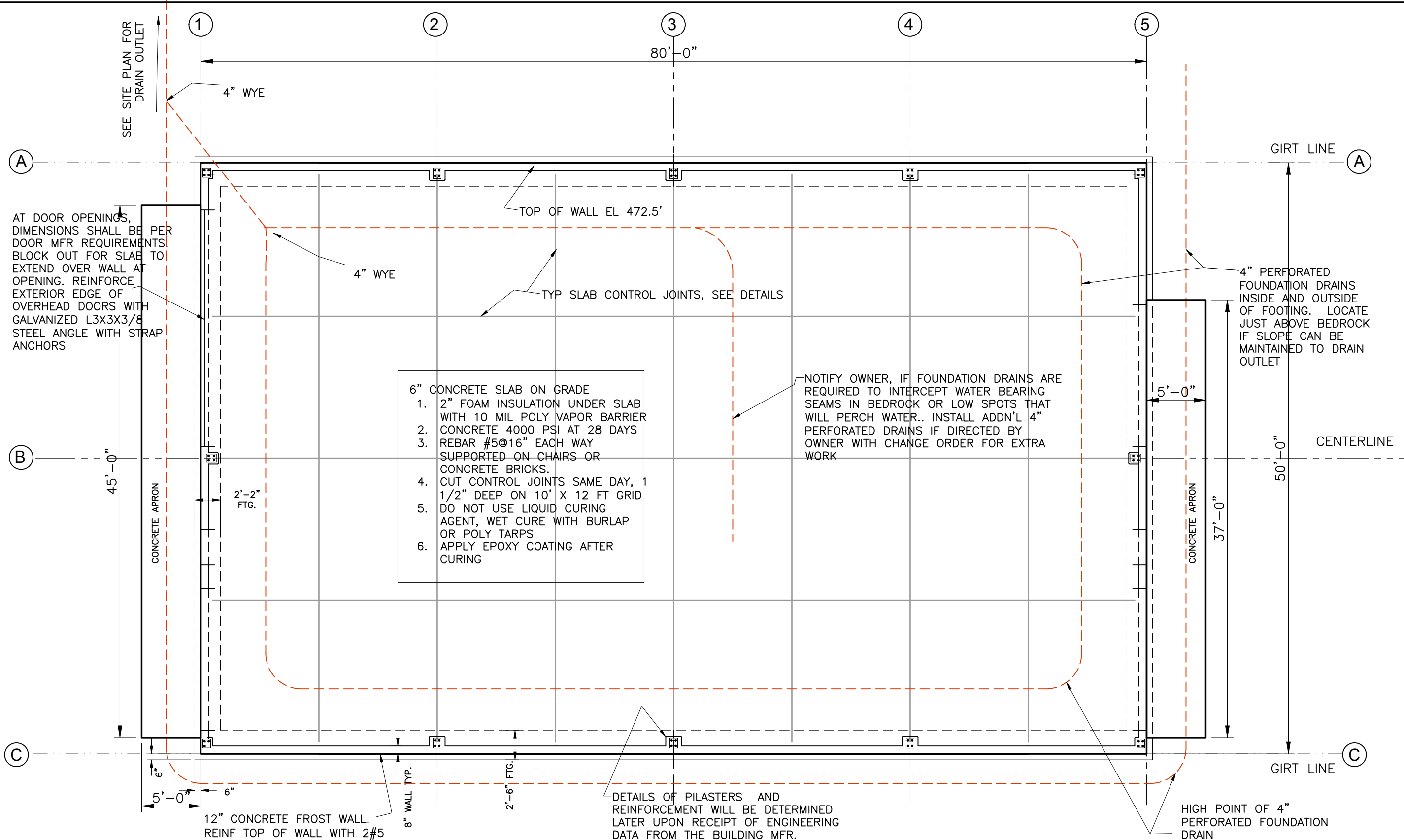
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Richmond Maintenance Facility

Nav Aids Storage Building
BUILDING LONGITUDINAL SECTION
METAL FRAME OPTION

Pinnacle Hill Engineering
33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

A-8
REV. 1



AT DOOR OPENINGS, DIMENSIONS SHALL BE PER DOOR MFR REQUIREMENTS. BLOCK OUT FOR SLAB TO EXTEND OVER WALL AT OPENING. REINFORCE EXTERIOR EDGE OF OVERHEAD DOORS WITH GALVANIZED L3X3X3/8 STEEL ANGLE WITH STRAP ANCHORS

- 6" CONCRETE SLAB ON GRADE
- 2" FOAM INSULATION UNDER SLAB WITH 10 MIL POLY VAPOR BARRIER
 - CONCRETE 4000 PSI AT 28 DAYS
 - REBAR #5@16" EACH WAY SUPPORTED ON CHAIRS OR CONCRETE BRICKS.
 - CUT CONTROL JOINTS SAME DAY, 1/2" DEEP ON 10' X 12 FT GRID
 - DO NOT USE LIQUID CURING AGENT, WET CURE WITH BURLAP OR POLY TARP
 - APPLY EPOXY COATING AFTER CURING

12" CONCRETE FROST WALL. REINF TOP OF WALL WITH 2#5 HORZ CONT.; STEM OF WALL WITH #4@12" EW; FOOTING WITH 3 #4 CONT; INSTALL FOOTING DOWELS #4 @18"

DETAILS OF PILASTERS AND REINFORCEMENT WILL BE DETERMINED LATER UPON RECEIPT OF ENGINEERING DATA FROM THE BUILDING MFR.

FOUNDATION PLAN - METAL FRAME OPTION



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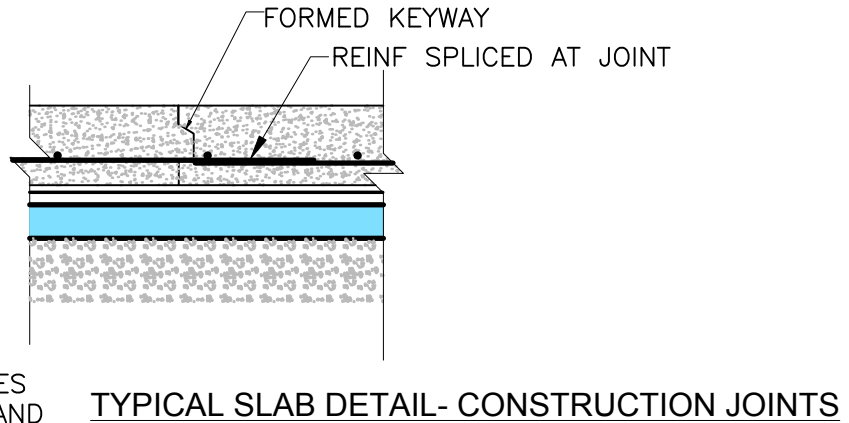
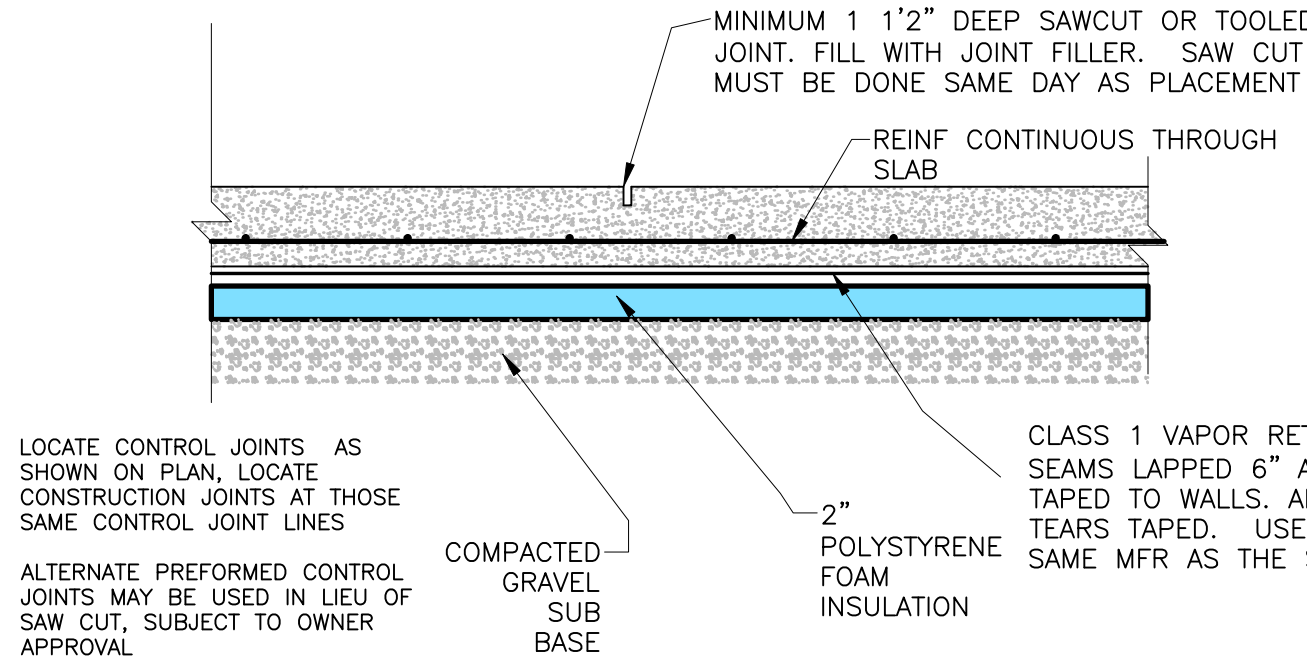
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 Richmond Maintenance Facility

**Nav Aids Storage Building
 FOUNDATION PLAN
 METAL FRAME OPTION**

Pinnacle Hill Engineering
 33 Pinnacle Road
 Canaan, ME 04924
 PinnacleHillEngineering@gmail.com

**A-9
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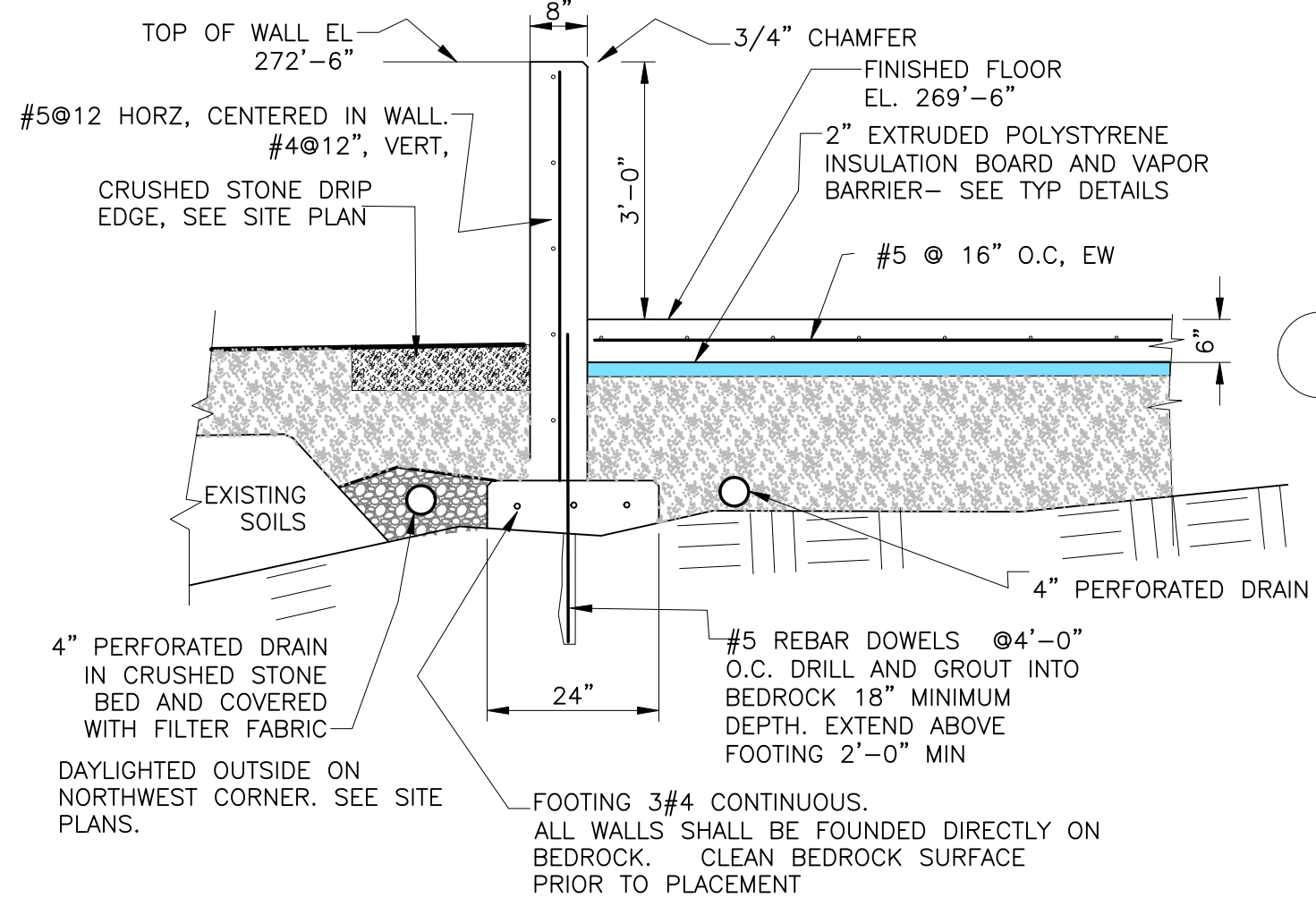
LOCATE CONTROL JOINTS AS SHOWN ON PLAN, LOCATE CONSTRUCTION JOINTS AT THOSE SAME CONTROL JOINT LINES

ALTERNATE PREFORMED CONTROL JOINTS MAY BE USED IN LIEU OF SAW CUT, SUBJECT TO OWNER APPROVAL

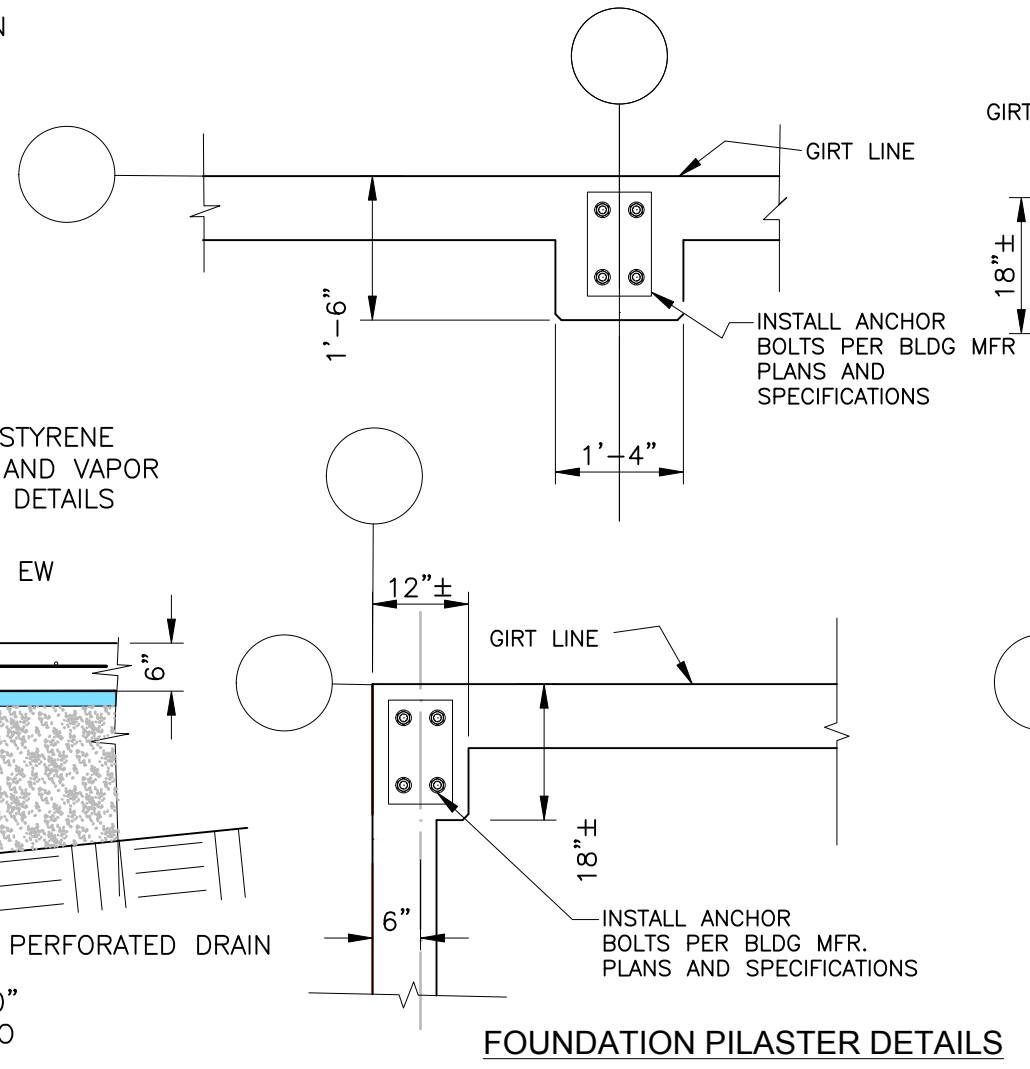
CLASS 1 VAPOR RETARDER SHEET SEAMS LAPPED 6" AND TAPED, EDGES TAPED TO WALLS. ALL PUNCTURES AND TEARS TAPED. USE ONLY TAPE FROM SAME MFR AS THE SHEET

TYPICAL SLAB DETAIL- CONTROL JOINTS. - (not to scale)

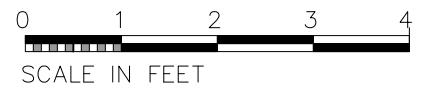
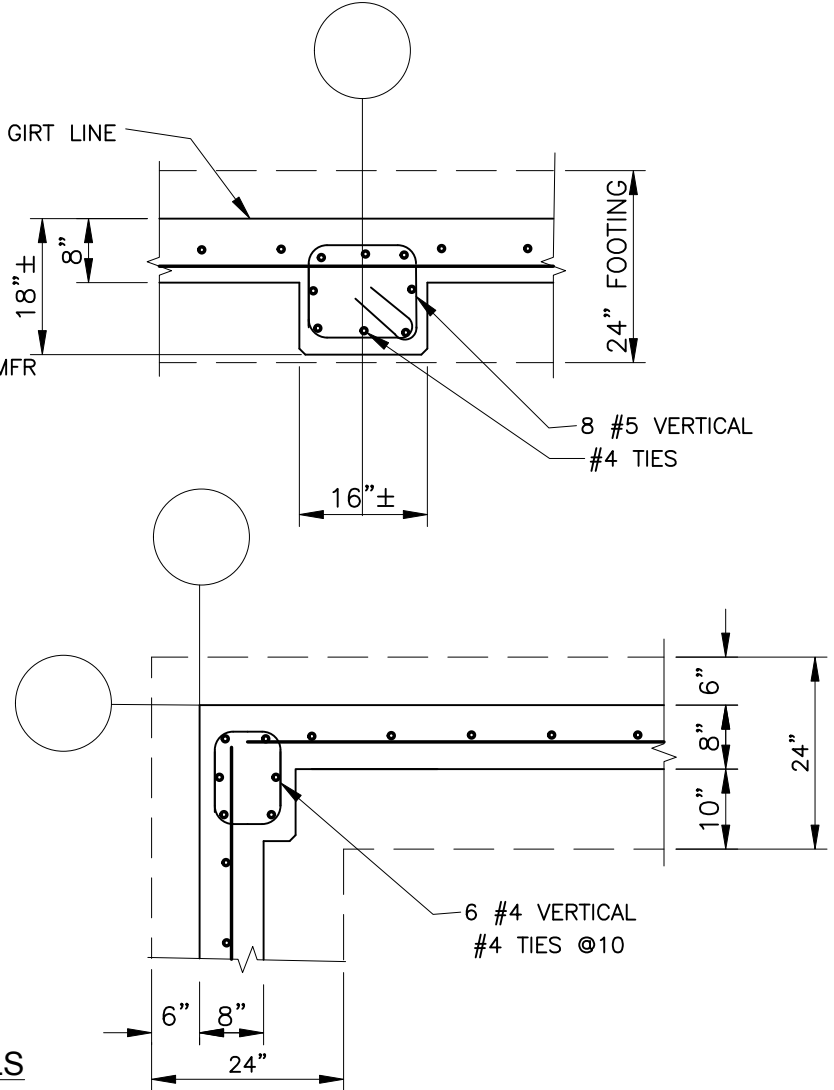
TYPICAL SLAB DETAIL- CONSTRUCTION JOINTS



TYPICAL FOUNDATION WALL DETAIL



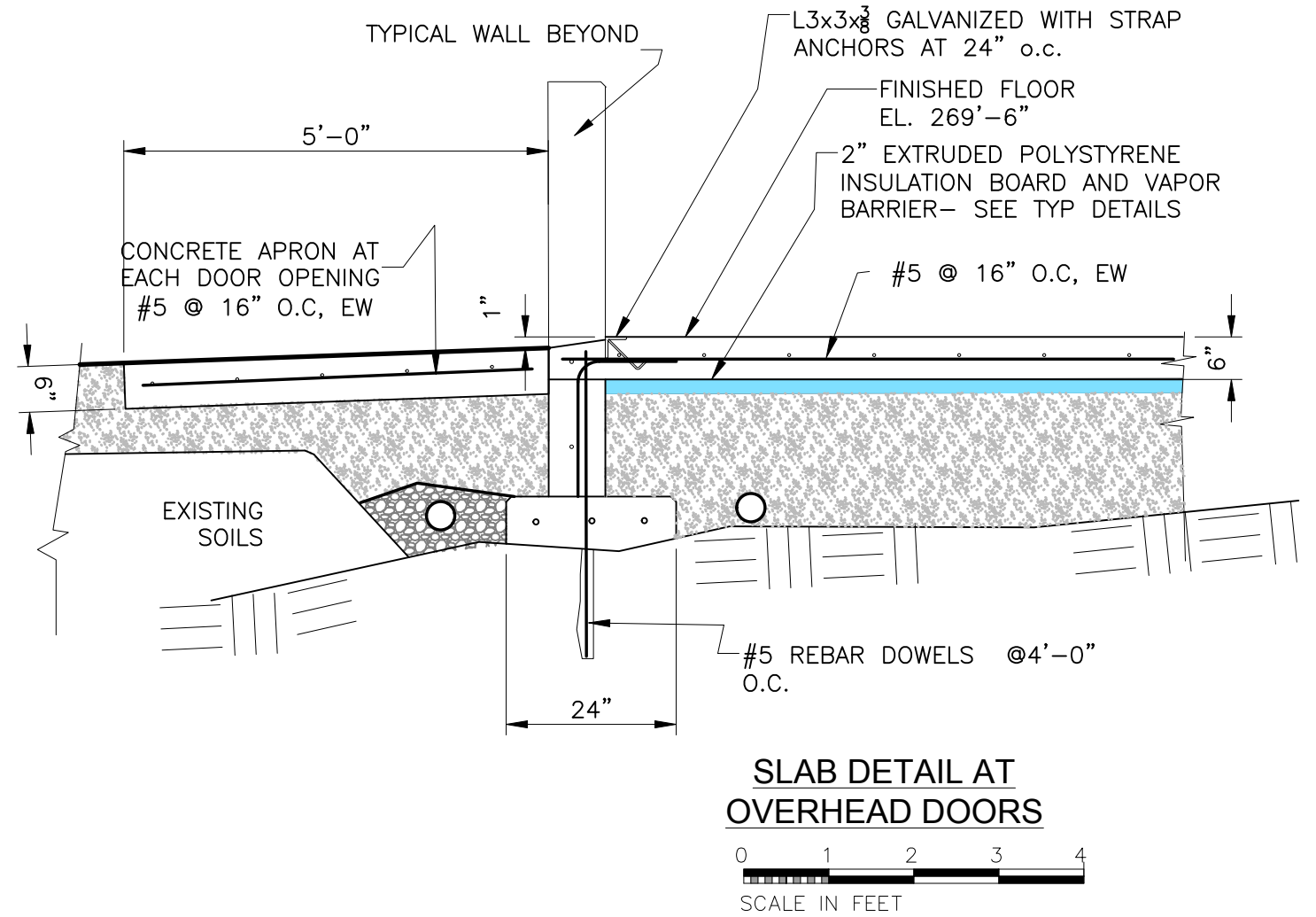
FOUNDATION PILASTER DETAILS



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DATE REVISD 5-11-2022	Nav Aids Storage Building FOUNDATION DETAILS METAL FRAME OPTION
Pinnacle Hill Engineering PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924

A-10
REV. 1



NO.	REVISION	DATE
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PINNACLE HILL ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
	A-11 REV. 1

1:1/1" = FULL SCALE

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO FACE UNLESS INDICATED OTHERWISE. ALL DIMENSIONS ARE TO FACE UNLESS INDICATED OTHERWISE.

AUG 11, 2011

2" SCHED 80 PVC BURIED CONDUIT FOR UNDERGROUND ELECTRIC BY CONTRACTOR. WIRE FEED TO BUILDING PERIMETER PROVIDED BY OWNERS ELECTRICIAN.

ELECTRICAL PANEL - SQUARE D 200 AMP MINIMUM 120/240 VOLT, SINGLE PHASE

GENERAL LIGHTING ~30 FOOT CANDLES/SF -LITHONIA LIGHTING 12L 50K 80CRI WH JEEL LED HIGH BAY, 136 WATTS, 12000 LUMENS 4000K COOL WHITE, OR EQUAL

EXTERIOR LIGHTING -LED SURFACE MOUNTED EXTERIOR FIXTURE LITHONIA WSR-LED 1 10A700/30K SR2 120 DDBXD DOWNWARD ILLUMINATION ("DARK SKY" TYPE)

GFCI DUPLEX RECEPTACLE OR PROTECTED BY GFCI BREAKER, 20 AMP TAMPER PROOF, EXTERIOR OUTLETS SHALL HAVE WEATHERPORRR COVERS

PROVIDE 250 VOLT 50 AMP RECEPTACLE (NEMA 6-50 SOCKET) FOR ELECTRIC VEHICLE CHARGER OR WELDER. INSTALLED ON THE WALL AT FOUR FEET AFF. UNLESS DIRECTED OTHERWISE. EACH OUTLET ON A SEPARATE BREAKER

COMBINATION LED EXIT SIGN WITH EMERGENCY LIGHT

LIGHT SWITCHES 4 GANGED 3-WAY SWITCHES SEPARATE SWITCHES FOR 1. SWITCH NORTH ROW 1 OF GENERAL LIGHT FIXTURES A 2. DIMMER FOR ROWS 2 AND 3 OF GENERAL LIGHT FIXTURES A 3. DIMMER FOR ROWS 4 AND 5 OF GENERAL LIGHT FIXTURES A 4. ALL EXTERIOR LIGHTS E

OVERHEAD DOOR OPERATOR PROVIDED BY DOOR MFR AS PART OF DOOR SUPPLY, WITH PROGRAMMABLE REMOTE CONTROL UNITS

OVERHEAD DOOR OPERATOR CONTROL STATION

FIRE EXTINGUISHER, ABC, PROVIDED BY OWNER

THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION, SIZING AND COMPATIBILITY OF COMPONENTS AND FIXTURES, AND PROVIDING A COMPLETE INSTALLATION MEETING REQUIRED STATE AND FEDERAL CODES AND STANDARDS.

THE ELECTRICAL PLAN IS PROVIDED TO SHOW THE OWNER'S INTENTION FOR GENERAL LAYOUT AND COMPONENTS TO BE INCLUDED, AND IS SCHEMATIC, NO ELECTRICAL DESIGN HAS BEEN PERFORMED.

ELECTRICAL PLAN



NO.	REVISION	DATE
1	ISSUED FOR BID	5-11-22

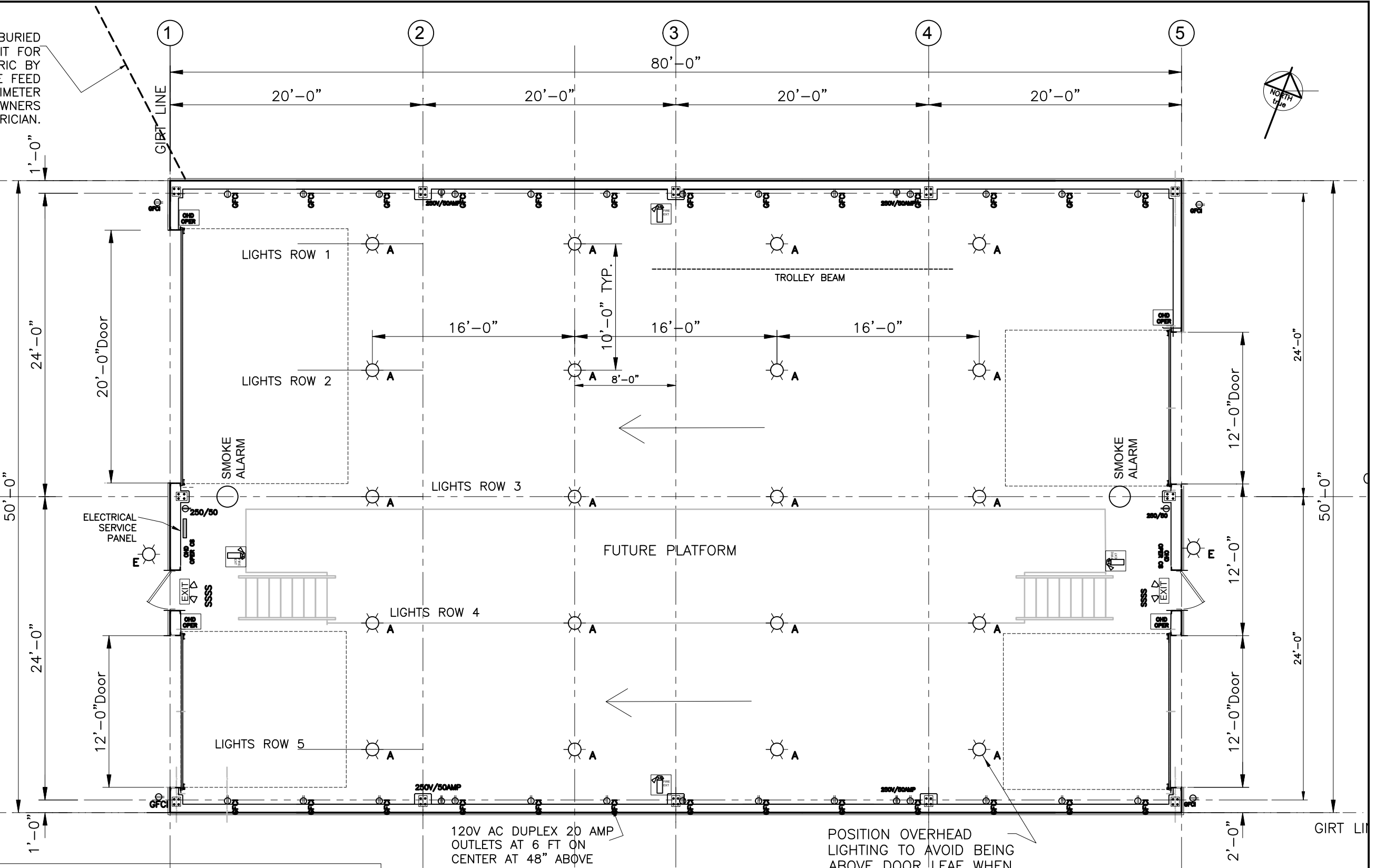
DESIGNED BY STR
DRAWN BY STR
DATE REVISED 5-11-2022

Maine Department of Agriculture, Conservation and Forestry
Bureau of Parks and Lands
Richmond Maintenance Facility

Nav Aids Storage Building
ELECTRICAL PLAN
METAL OR WOOD FRAME OPTIONS

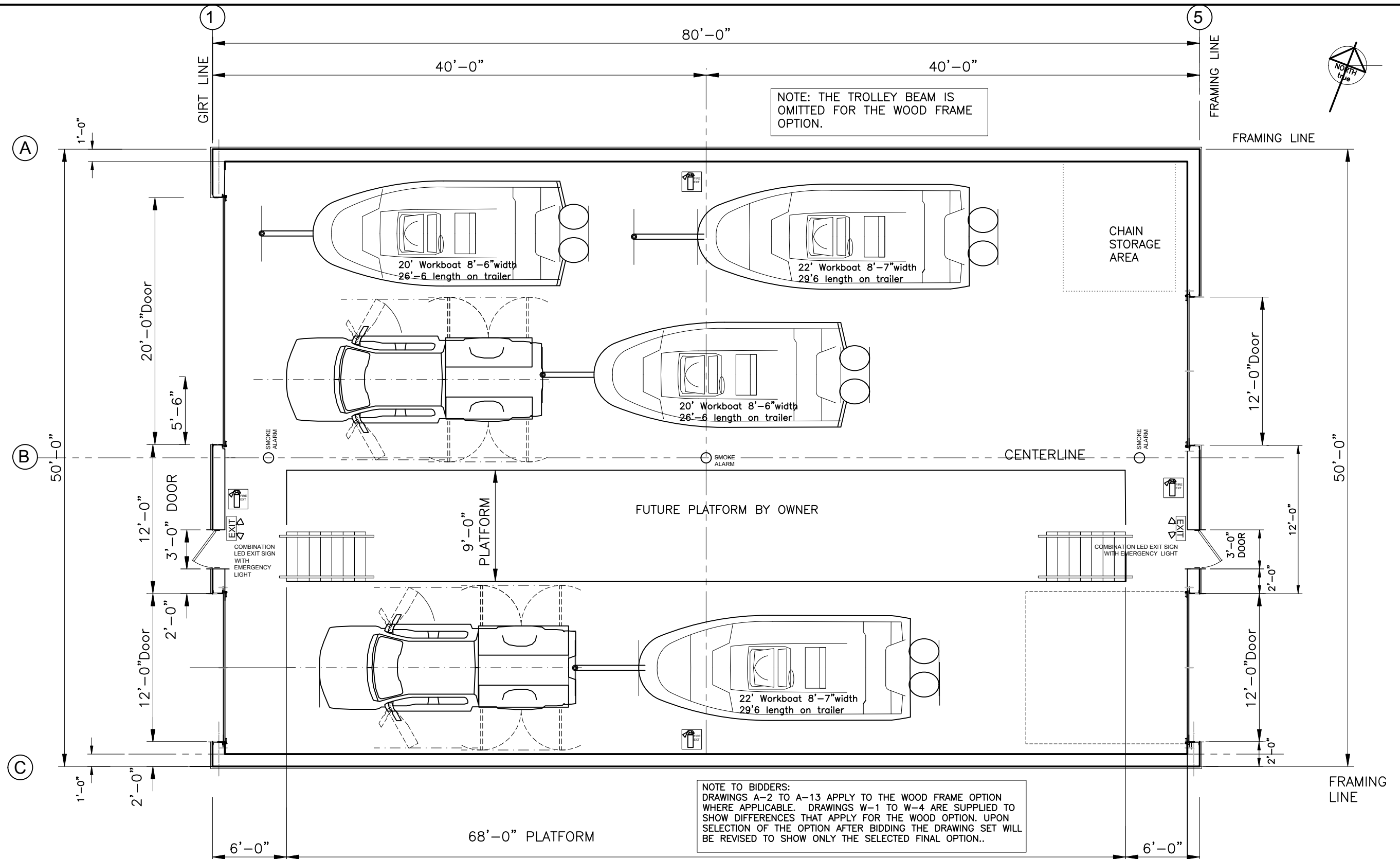
Pinnacle Hill Engineering
33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

A-12
REV. 1



120V AC DUPLEX 20 AMP OUTLETS AT 6 FT ON CENTER AT 48" ABOVE FLOOR, NORTH AND SOUTH WALLS

POSITION OVERHEAD LIGHTING TO AVOID BEING ABOVE DOOR LEAF WHEN IN THE "UP" POSITION

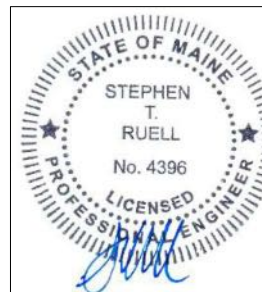


DOOR NOTES:

- ALL OVERHEAD DOORS SHALL BE OVERHEAD DOOR THERMACORE NODEL 591 OR APPROVED EQUAL, TO BE SUPPLIED WITH STANDARD LIFT TRACK KITS AND COMMERCIAL GRADE OPERATORS WITH REMOTE CONTROLS. COORDINATE BUILDING FRAME STRUCTURE DIMENSIONS WITH TRACK CLEARANCE REQUIREMENTS
- MANDOORS SHALL BE 3'-0" X 6'-8" STANDARD COMMERCIAL GRADE FIBERGLASS DOORS WITH FIBERGLASS FRAMES, HALF GLASS, STAINLESS STEEL BALL BEARING HINGES, AND COMMERCIAL GRADE PASSAGE SET. OWNER WILL SUPPLY DEAD BOLT LOCK FOR INSTALLATION BY CONTRACTOR. CORDINATE WITH OWNER,



FLOOR PLAN - WOOD FRAME OPTION



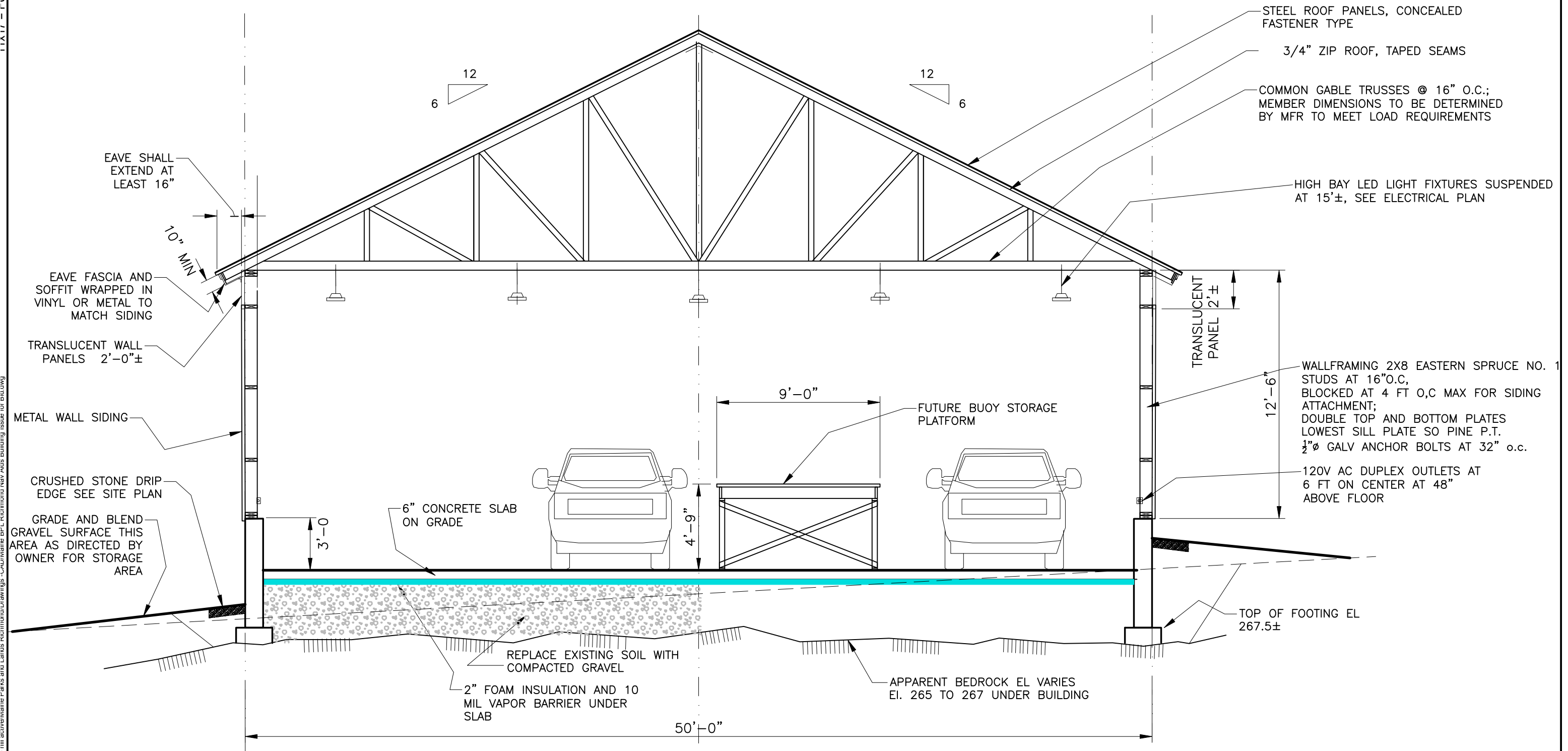
NO.	REVISION	DATE
1	ISSUED FOR BID	5-11-22

DESIGNED BY -	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
DRAWN BY STR	
DATE REVISED 5-11-2022	Nav Aids Storage Building FLOOR PLAN - WOOD FRAMED
Pinnacle Hill Engineering PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
	W-1 REV. 1

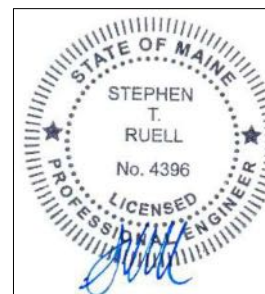
1:1/1" = FULL SCALE

DESIGNED BY STR
DRAWN BY STR
DATE REVISED 5-11-2022

AU 10-20-2011



**BUILDING TRANSVERSE SECTION
WOOD FRAME OPTION**



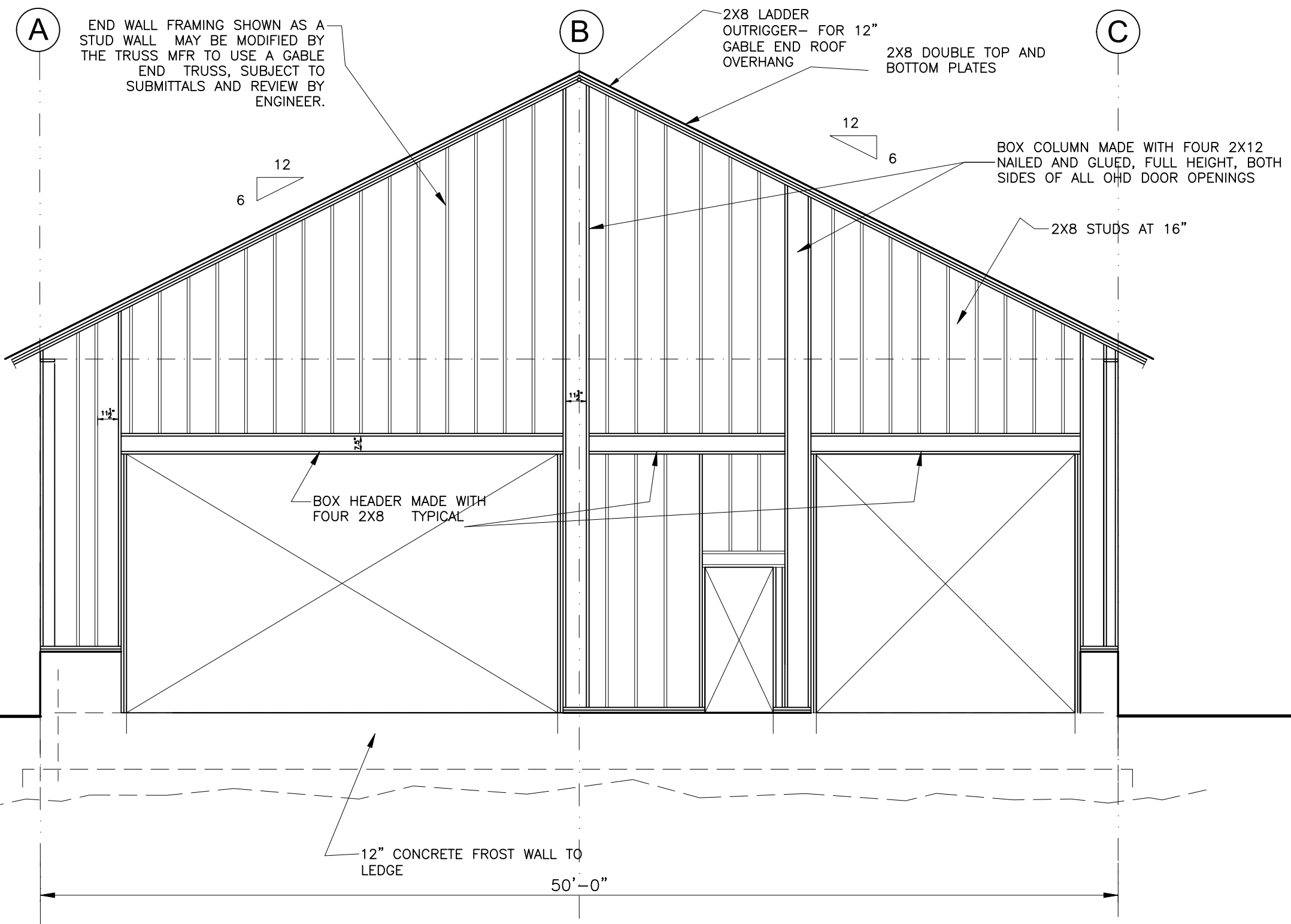
NO.	REVISION	DATE
1	ISSUED FOR BID	5-11-22

DESIGNED BY -	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
DRAWN BY STR	
DATE REVISED 5-11-2022	Nav Aids Storage Building BUILDING CROSS SECTION WOOD FRAMED
Pinnacle Hill Engineering 33 Pinnacle Road Canaan, ME 04924 PinnacleHillEngineering@gmail.com	
W-2 REV. 1	

11A17 - FULL SCALE

DESIGNED BY STR FOR THE ARCHITECTURE FIRM AND LANDS MANAGEMENT SERVICES - CONSULTING ENGINEER FOR THE PROJECT

AUGUST 2011



WOOD FRAMED OPTION - ROOF NOTES

1. Truss Manufacturer with minimum of 5 years commercial production of trusses shall design and fabricate trusses. Design per IBC Code Latest Edition
2. Design Loads
 Design Snow load = 47 psf per ASCE 7. Using ground snow load $P_g = 70$ psf, $I = 1.0$, $C_e = 1.0$, $C_t = 1.2$, $C_s = 0.8$ for unheated, unobstructed slippery roof, Design for unbalanced and balanced loads
 Design Wind load per ASCE 7. Wind speed 85 mph, Exposure C
 Roof design shall include a superimposed dead load = 12 psf in addition to the building supplied.
 Temporary Live Load 25 psf during construction
3. Submit truss shop drawings to Owner prior to fabrication.
4. Provide all necessary connectors, hold downs, bracing and instructions for erection of roof trusses and temporary and permanent bracing.
5. Space trusses at 16" on center, centered over bearing studs in bearing walls.
6. Anchor trusses to bearing walls with metal connector plates capable of resisting wind uplift forces per IBC.
7. Roof Sheathing - $\frac{5}{8}$ " APA Span Rated Roof sheathing, Huber Zip Roof, tape all seams with Zip Tape, Nail per IBC Code and Truss manufacturer instructions.

WEST ELEVATION WOOD FRAMING DETAIL

EAST WALL SIMILAR

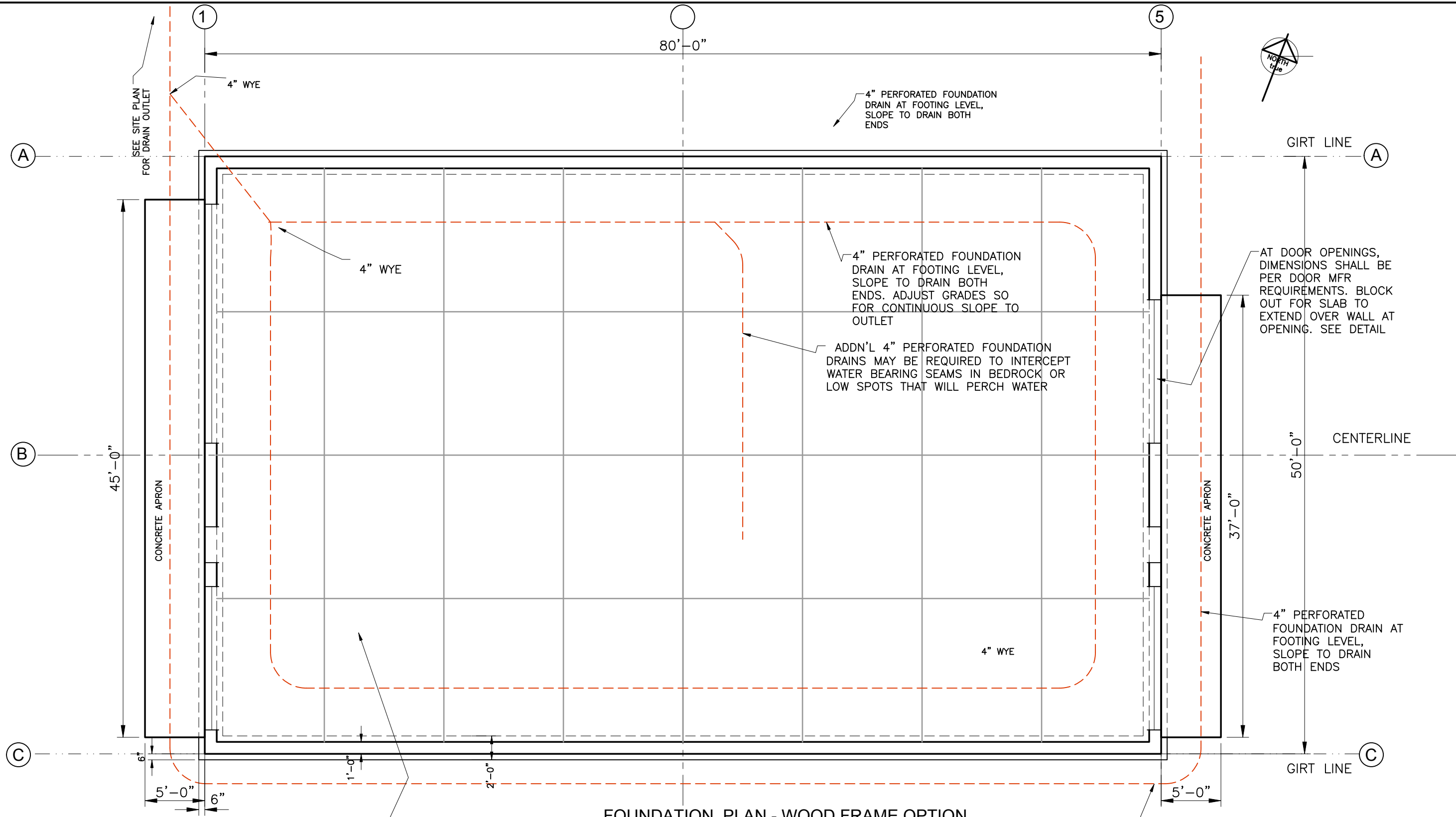


NO.	REVISION	DATE	DESIGNED BY	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
1	ISSUED FOR BID	5-11-22	STR	
			DATE REVISED 5-11-2022	Nav Aids Storage Building BUILDING END WALL FRAMING WOOD FRAMED
			Pinnacle Hill ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924 W- REV. 1

1:1/1 - FULL SCALE

DESIGNED BY STR
DRAWN BY STR
DATE REVISION DATE
5-11-22

AU 10-2011



FOUNDATION PLAN - WOOD FRAME OPTION



- 6" THICK CONCRETE SLAB ON GRADE
- 2" FOAM INSULATION UNDER SLAB WITH 10 MIL POLY VAPOR BARRIER
 - CONCRETE 4000 PSI AT 28 DAYS
 - REBAR #5@16" EACH WAY SUPPORTED ON CHAIRS OR CONCRETE BRICKS.
 - CUT CONTROL JOINTS SAME DAY, 1 1/2" DEEP ON 10' X 12 FT GRID
 - DO NOT USE LIQUID CURING AGENT, WET CURE WITH BURLAP OR POLY TARP
 - APPLY EPOXY COATING AFTER CURING

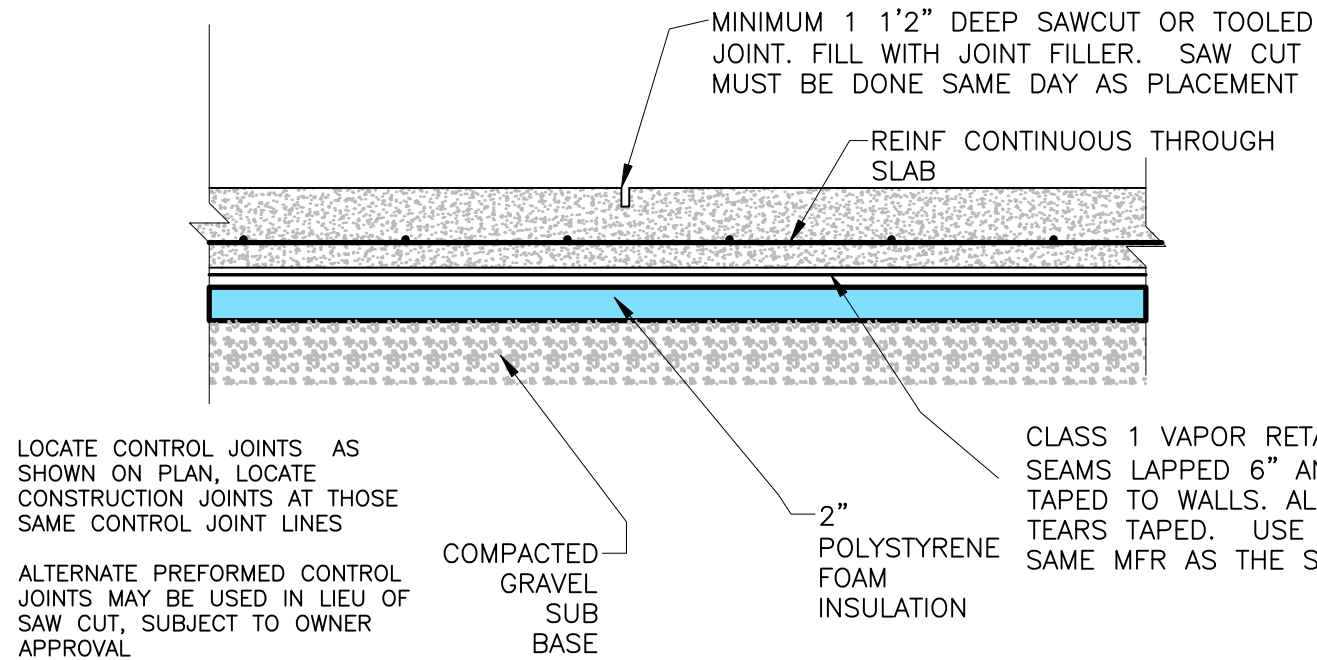


NO.	REVISION	DATE
1	ISSUED FOR BID	5-11-22

DESIGNED BY STR	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
DRAWN BY STR	
DATE REVISION 5-11-2022	Nav Aids Storage Building FOUNDATION PLAN - WOOD FRAMED
Pinnacle Hill Engineering PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
	W-REV. 1

1:1/1" = FULL SCALE

UNDESIGNED/UNAPPROVED/UNLICENSED PROFESSIONAL ENGINEERING IS STRICTLY PROHIBITED. ANY VIOLATION OF THESE REGULATIONS MAY BE SUBJECT TO PENALTY.



LOCATE CONTROL JOINTS AS SHOWN ON PLAN, LOCATE CONSTRUCTION JOINTS AT THOSE SAME CONTROL JOINT LINES

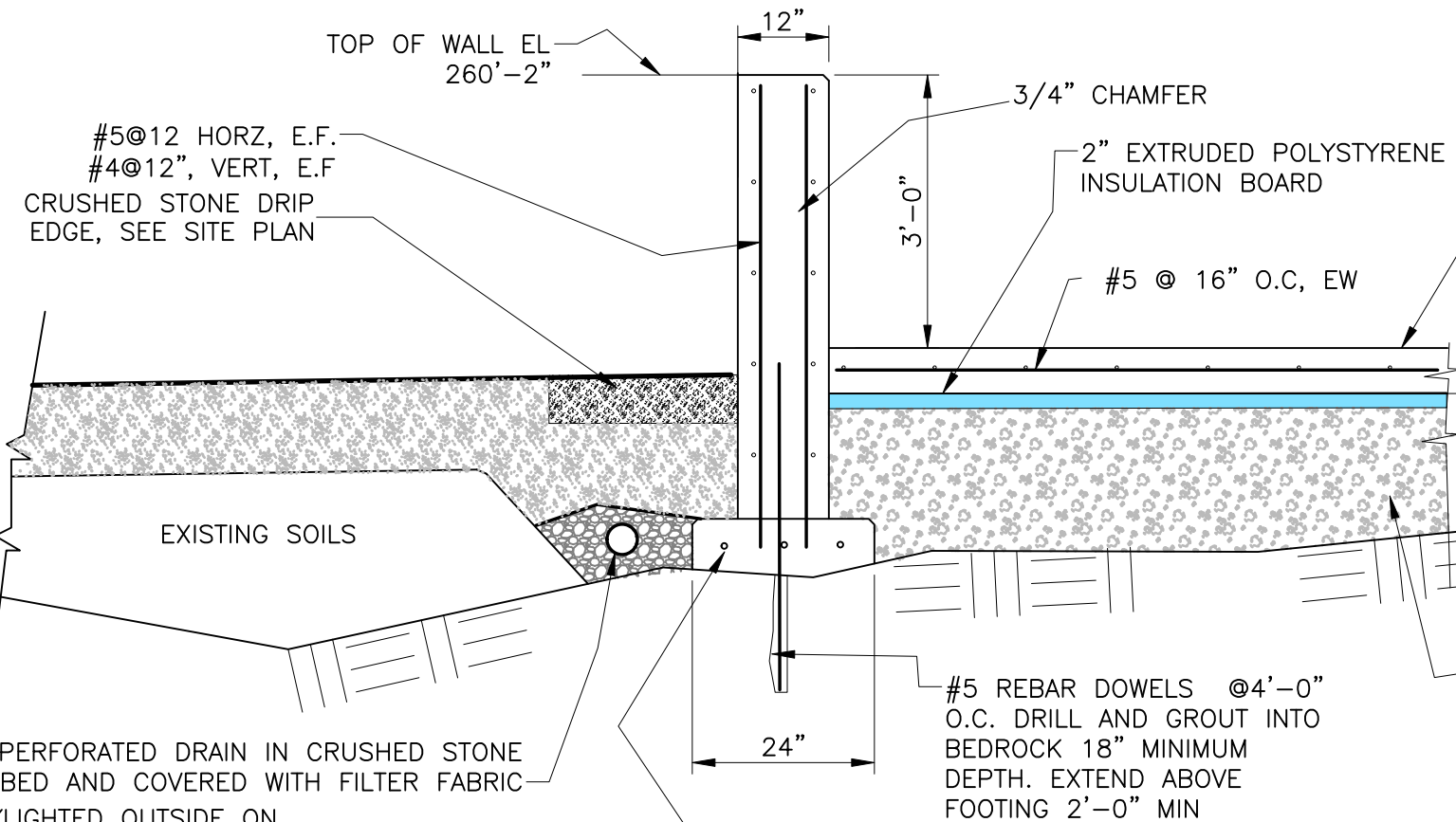
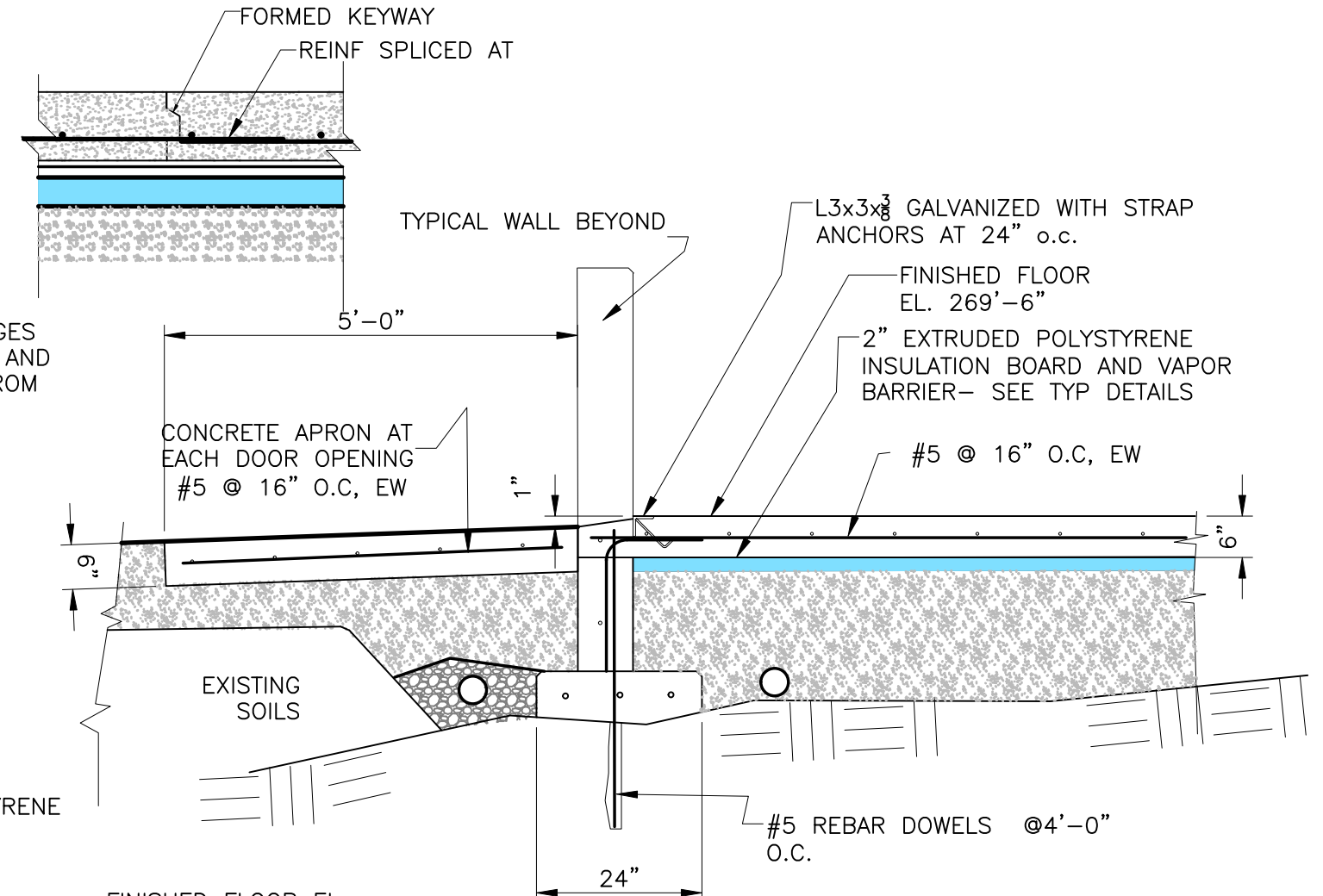
ALTERNATE PREFORMED CONTROL JOINTS MAY BE USED IN LIEU OF SAW CUT, SUBJECT TO OWNER APPROVAL

COMPACTED GRAVEL SUB BASE

2" POLYSTYRENE FOAM INSULATION

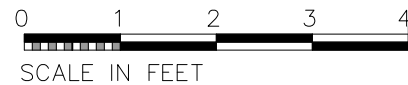
CLASS 1 VAPOR RETARDER SHEET SEAMS LAPPED 6" AND TAPED, EDGES TAPED TO WALLS. ALL PUNCTURES AND TEARS TAPED. USE ONLY TAPE FROM SAME MFR AS THE SHEET

SLAB DETAILS not to scale



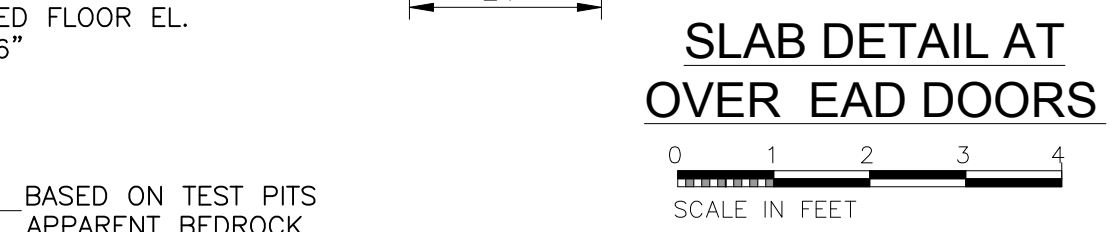
#5@12 HORZ, E.F.
#4@12\", VERT, E.F.
CRUSHED STONE DRIP EDGE, SEE SITE PLAN

4\" PERFORATED DRAIN IN CRUSHED STONE BED AND COVERED WITH FILTER FABRIC DAYLIGHTED OUTSIDE ON NORTHWEST CORNER. SEE SITE PLANS.



FOOTING 3#4 CONTINUOUS. ALL WALLS SHALL BE FOUNDED DIRECTLY ON BEDROCK. CLEAN BEDROCK SURFACE OF LOOSE MATERIAL, PRIOR TO PLACEMENT

TYPICAL FOUNDATION WALL DETAIL

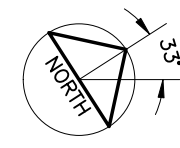
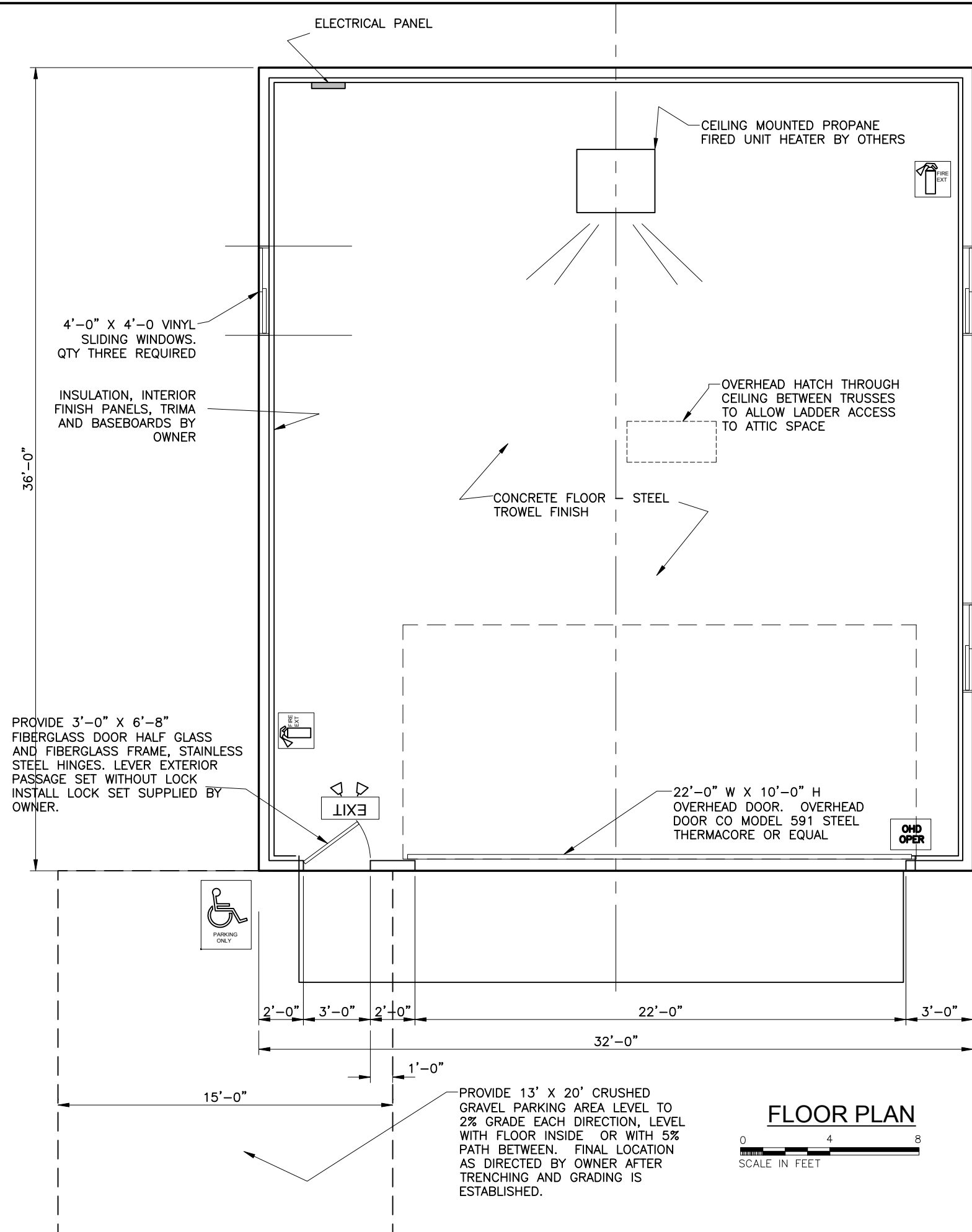


SLAB DETAIL AT OVER EAD DOORS



NO.	REVISION	DATE
1	ISSUED FOR BID	5-11-22

DESIGNED BY STR	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
DRAWN BY STR	
DATE REVISED 5-11-2022	Nav Aids Storage Building FOUNDATION DETAILS WOOD FRAMED
Pinnacle Hill Engineering PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
	W-5 REV. 1



General Notes

1. **Scope of Work**
SiteWork
 Excavation of building foundation, backfilling and compaction
 Excavation of trenches for utilities and drainage lines, provide drainage piping, conduits and catch basin.
 Drilling and blasting of trenches where bedrock is shallow or at the surface.
 Construction of concrete pads for propane tank and emergency generator.
 Place and finish grade gravel in parking lot
 Level Spreader
 Loam and Seed

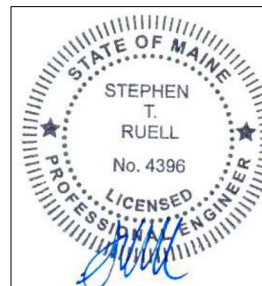
- Building Construction**
 Construct wood framed Carpenters shop complete except for items noted as by Owner.
 Roofing. - Standing seam metal roof installed per manufacturers instruction for full warranty.
 Siding - Metal ribbed panels as specified, installed per manufacturers instructions for fasteners, underlayment closure strips, etc.
 Roofing and siding trim to match roofing and siding in gage, color, sheen and durability.
 Doors and windows as shown
 Electrical system installed by licensed electrician

2. Finishes

- a. It is the Owners intent that the exterior siding, roofing, exterior trim, doors and windows will all be factory finished so that future field painting will not be required.
- b. All doors shall be factory prefinished in the color selected by the Owner from the Mfr standard colors.
- c. All components shall be protected throughout delivery, storage and installation. Any field touchup required for damaged coatings, shall be done by the Contractor to the satisfaction of the Owner.

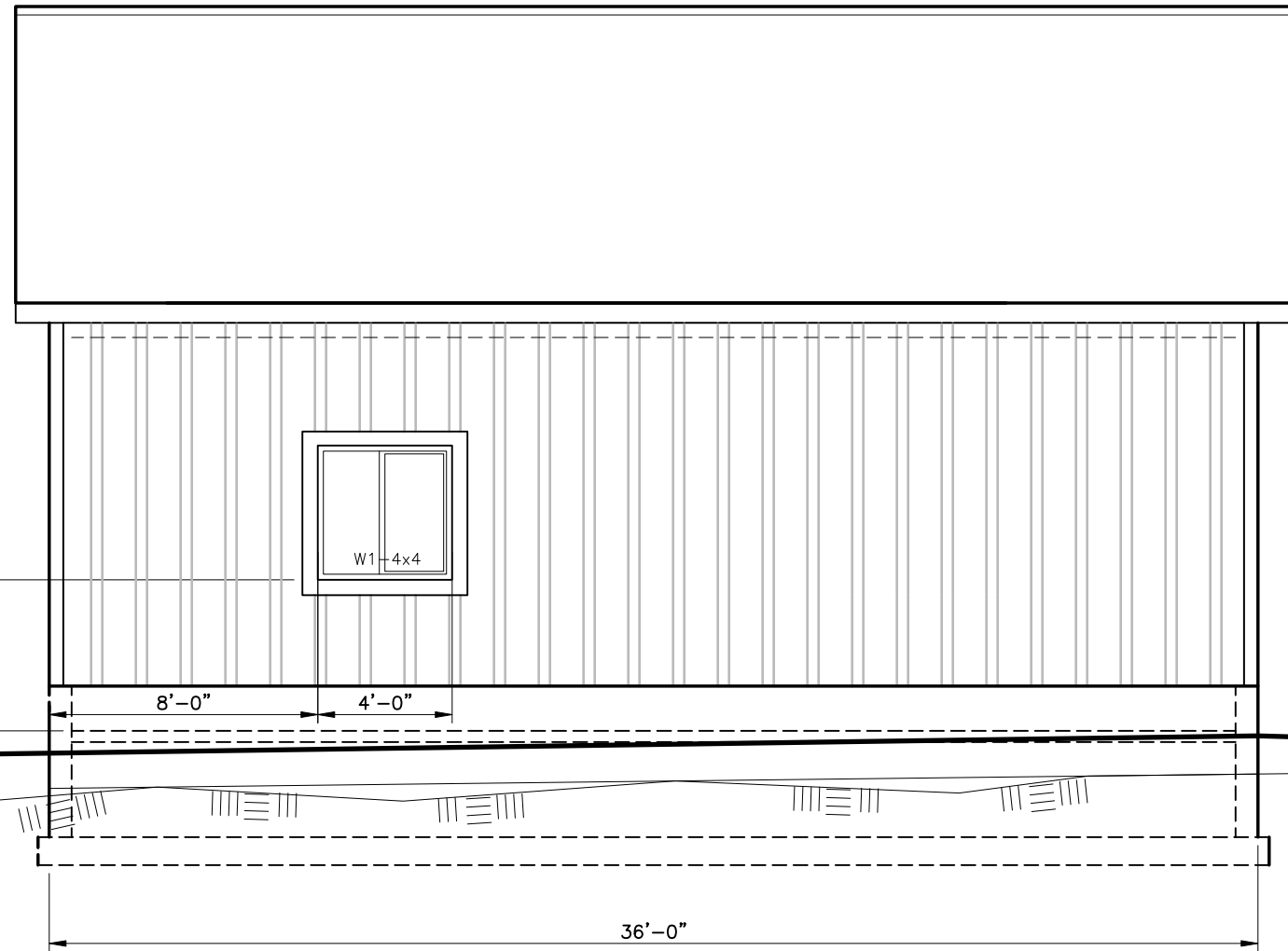
3. Work by Owner and Not in Contract

Heating System
 Insulation of walls and ceiling
 Interior wall panels and trim
 Door lock is supplied by Owner



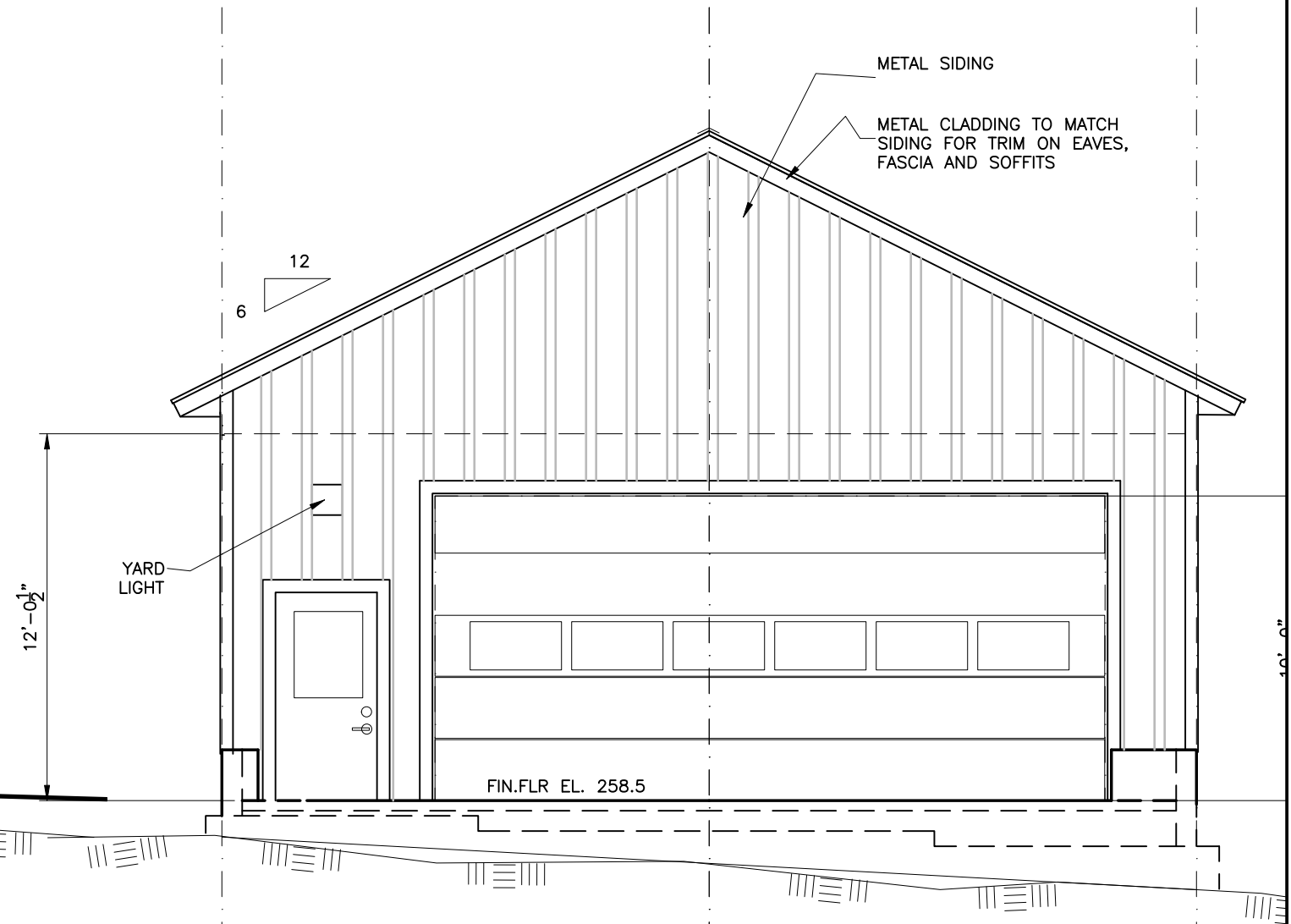
NO.	REVISION	DATE
1	BGS REVIEW	2-11-22
2	ISSUED FOR BID	5-11-22

DESIGNED BY	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
DRAWN BY	
DATE REVISD	
Carpentry Shop FLOOR PLAN	
Pinnacle Hill Engineering PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
	B-1 REV. 2



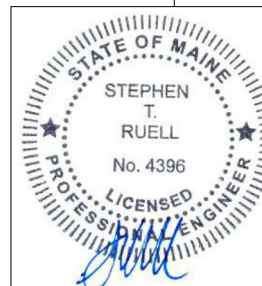
SOUTH ELEVATION

0 4 8
SCALE IN FEET



EAST ELEVATION

0 4 8
SCALE IN FEET



NO.	REVISION	DATE
1	BGS REVIEW	2-11-22
2	ISSUED FOR BID	5-11-22

DESIGNED BY -
DRAWN BY STR
DATE REVISED 5-11-22
Pinnacle Hill Engineering
PinnacleHillEngineering@gmail.com

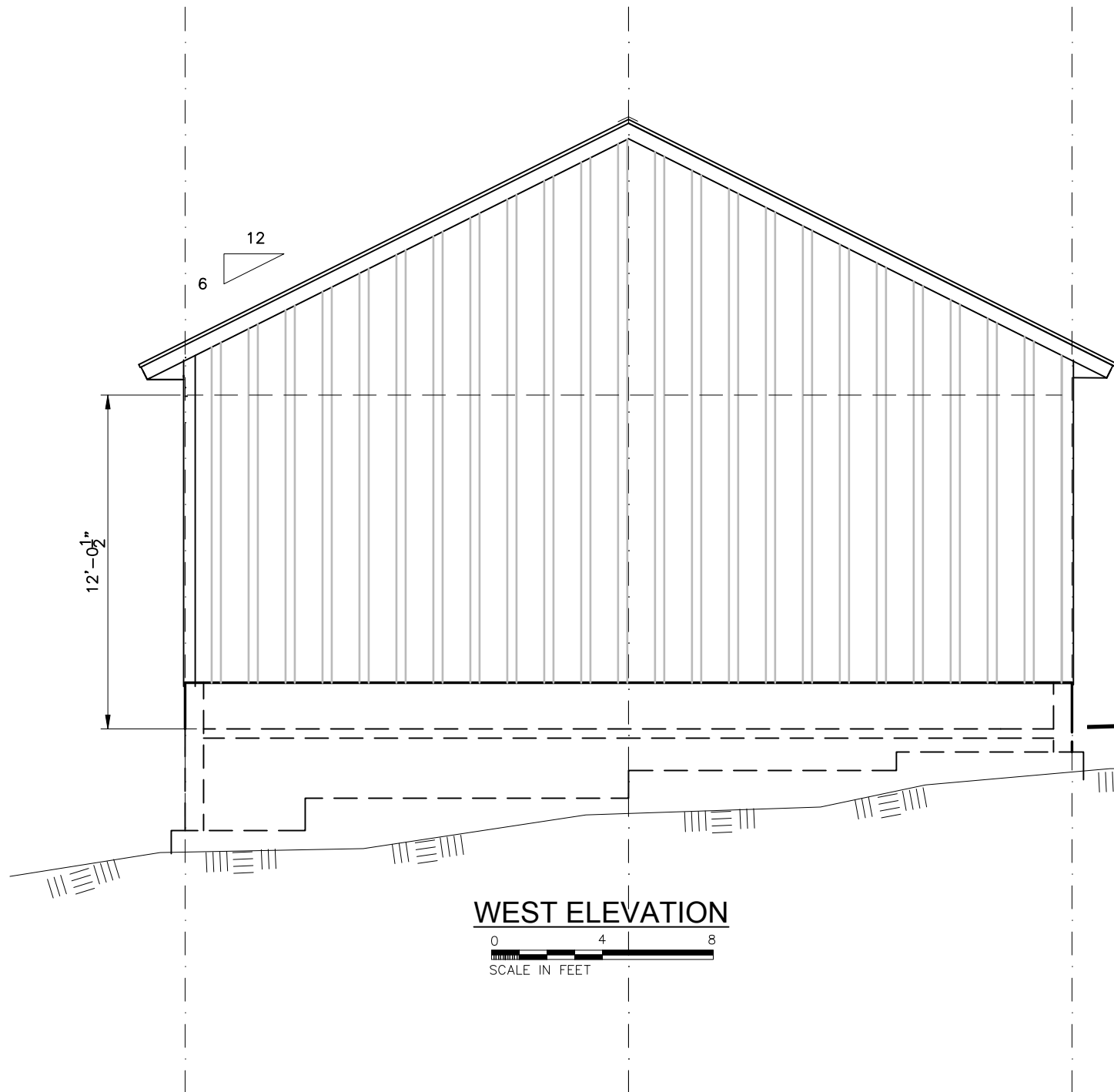
Maine Department of Agriculture, Conservation and Forestry
Bureau of Parks and Lands
Richmond Maintenance Facility

Carpentry Shop
SOUTH & EAST EXTERIOR ELEVATIONS

33 Pinnacle Road
Canaan, ME 04924

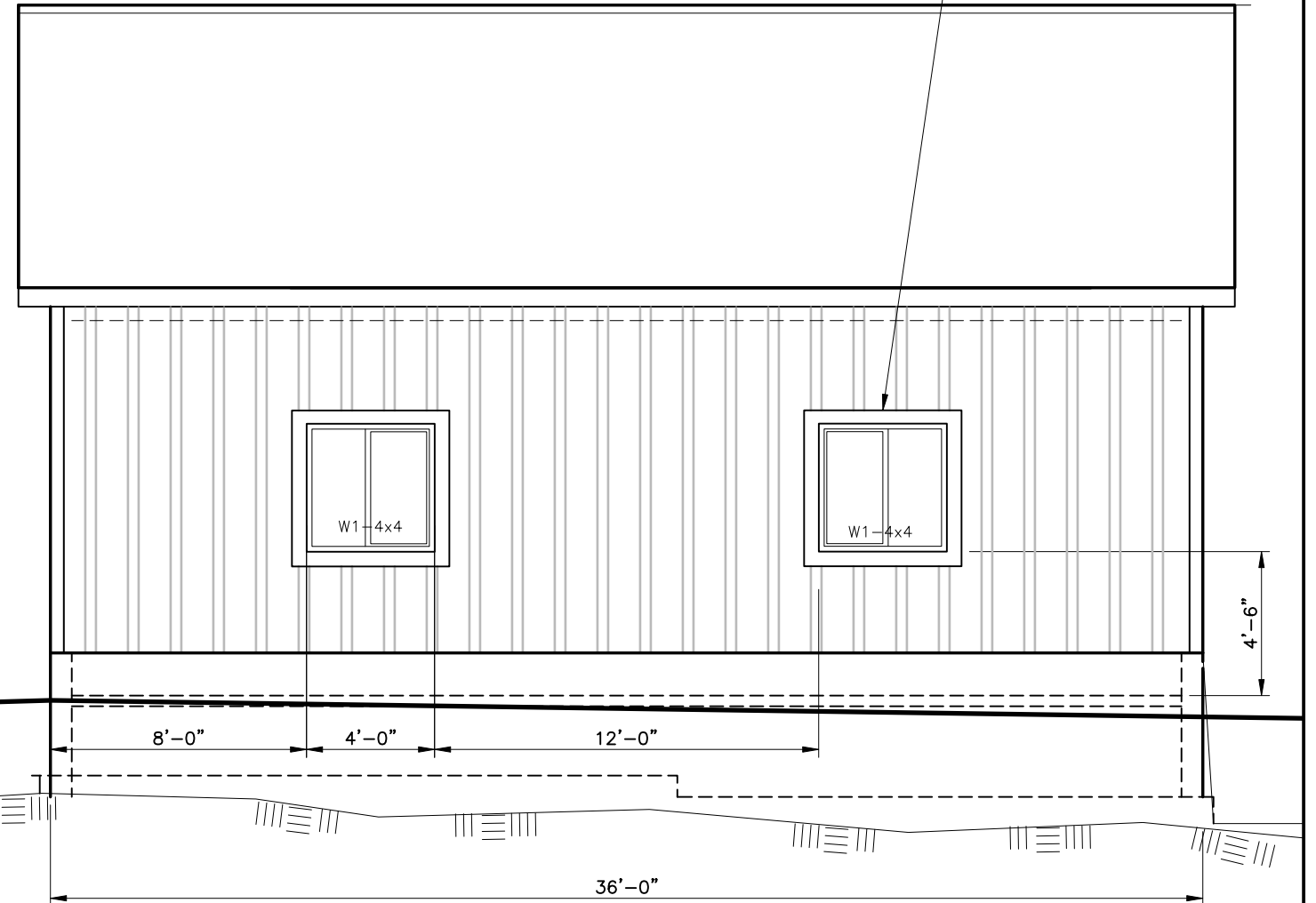
B-2
REV. 2

PROVIDE TRIM AROUND DOORS AND WINDOWS
BENT METAL FLASHING WITH FINISH AND GAGE
TO MATCH SIDING. INSTALL WITH EXPOSED
FASTENERS SO AS TO BE REMOVABLE FOR
FUTURE WINDOW REPLACEMENT WITH REQUIRING
REMOVAL OF SIDING.
PROVIDE 4' MINIMUM EXPOSED TRIM WIDTH.



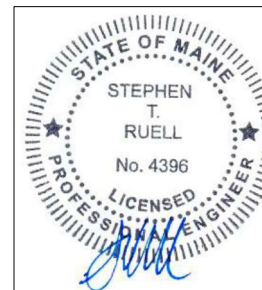
WEST ELEVATION

0 4 8
SCALE IN FEET



NORTH ELEVATION

0 4 8
SCALE IN FEET



NO.	REVISION	DATE
1	BGS REVIEW	2-11-22
2	ISSUED FOR BID	5-11-22

DESIGNED BY	-
DRAWN BY	STR
DATE REVISD	5-11-22

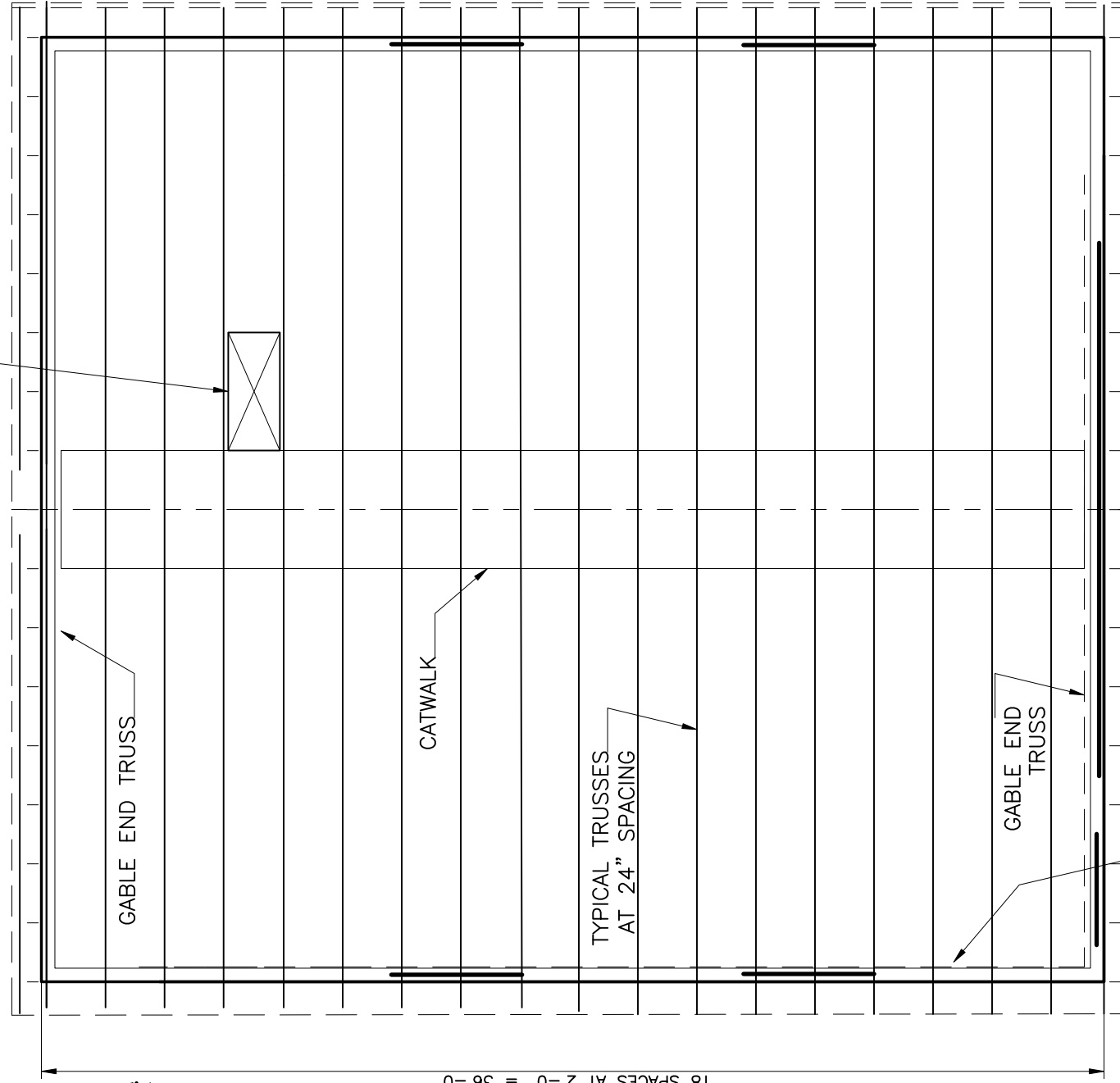
Maine Department of Agriculture, Conservation and Forestry
Bureau of Parks and Lands
Richmond Maintenance Facility

Carpentry Shop
NORTH & WEST ELEVATIONS

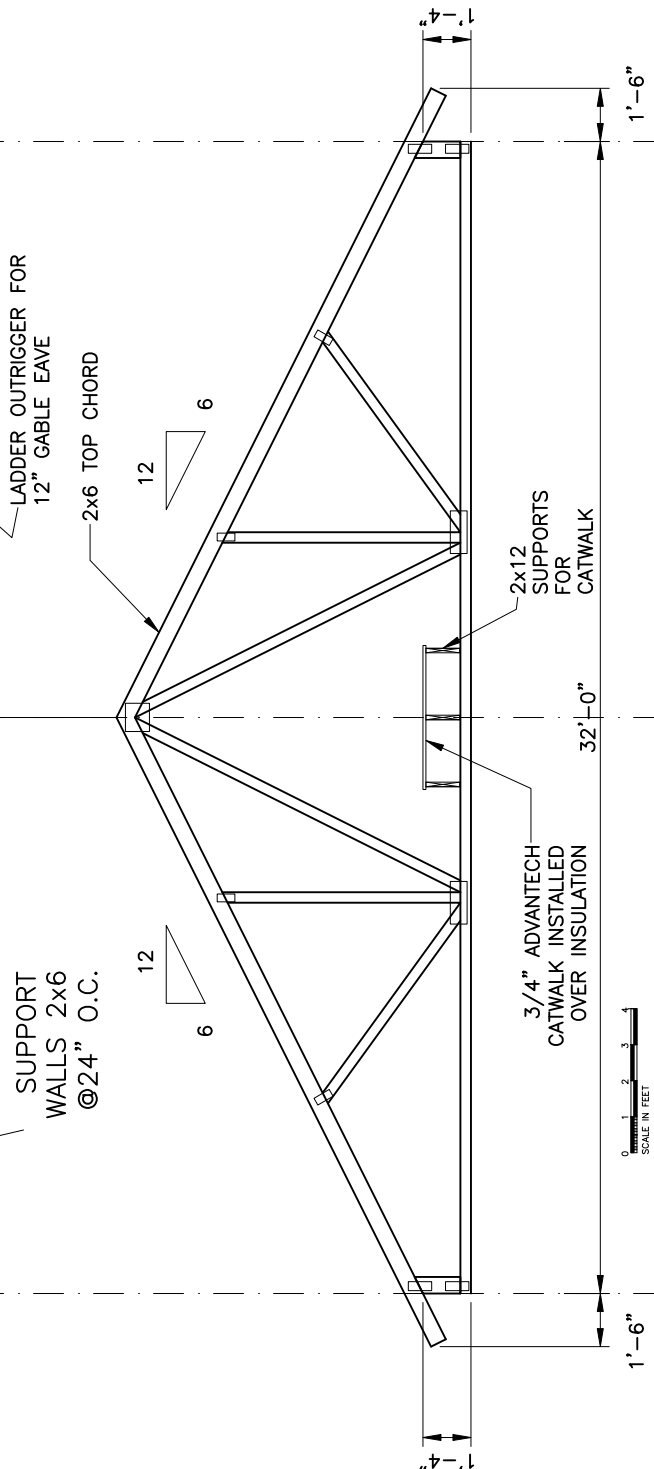
Pinnacle Hill Engineering
33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

B-3
REV. 2

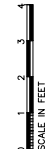
PROVIDE HINGED CEILING HATCH TO REACH CATWALK, MINIMUM 48" X 20" CLR OPNG. INSULATED, DOWNWARD OPENING. SOLID SIDEWALLS TO RETAIN CEILING INSULATION. LOCATE AS DIRECTED BY OWNER



ROOF FRAMING PLAN

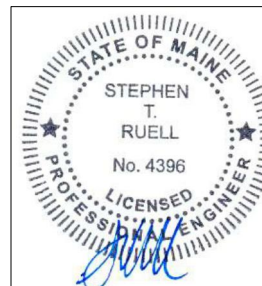


ROOF TRUSS



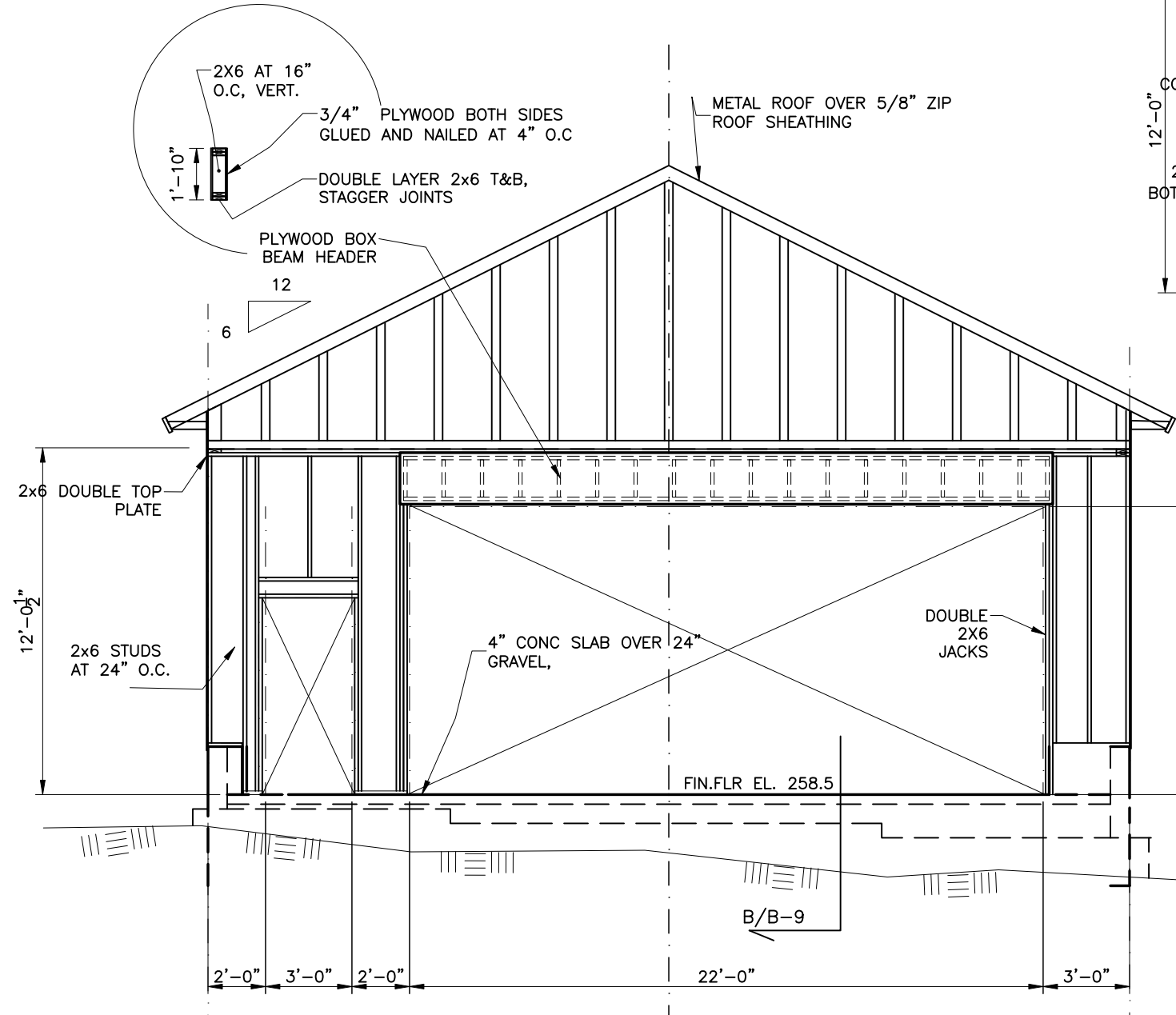
ROOF NOTES

1. Truss Manufacturer with minimum of 5 years commercial production of trusses shall design and fabricate trusses. Design per IBC Code Latest Edition
2. Design Loads
Roof truss design superimposed dead load = 12 psf
Temporary Live Load 25 psf during construction
Unoccupied Attic
Design Snow load per ASCE 7. Using ground snow load $P_g = 70$ psf, $I = 1.0$, $C_e = 1.0$, $C_t = 1.1$, $C_s = 0.7$ for Ventilated, unobstructed slippery roof, Design for Unbalanced and balanced loads
Design Wind load per ASCE 7. Wind speed 85 mph, Exposure C
3. Submit truss shop drawings prior to fabrication.
4. Provide all necessary connectors, hold downs, bracing and instructions for erection of roof trusses and temporary and permanent bracing.
5. Space trusses at 24" on center, centered over bearing studs in bearing walls.
6. Anchor trusses to bearing walls with metal connector plates capable of resisting wind uplift forces per IBC.
7. Roof Sheathing $\frac{5}{8}$ " APA Span Rated Roof sheathing, Huber Zip Roof, tape all seams with Zip Tape, Nail per IBC Code and Truss manufacturer instructions.
8. Roofing. – Standing seam metal roof installed per manufacturers instruction for full warranty. Underlayment and nailing of underlayment as instructed by roof mfr. Do not staple underlayment if that will void the warranty..
9. Siding – Metal ribbed panels as specified, installed per manufacturers instructions for fasteners, underlayment closure strips, etc.
- 10 Roofing and siding trim– all trim and siding shall be metal with finish to match roofing and siding in gage, color, sheen and durability.

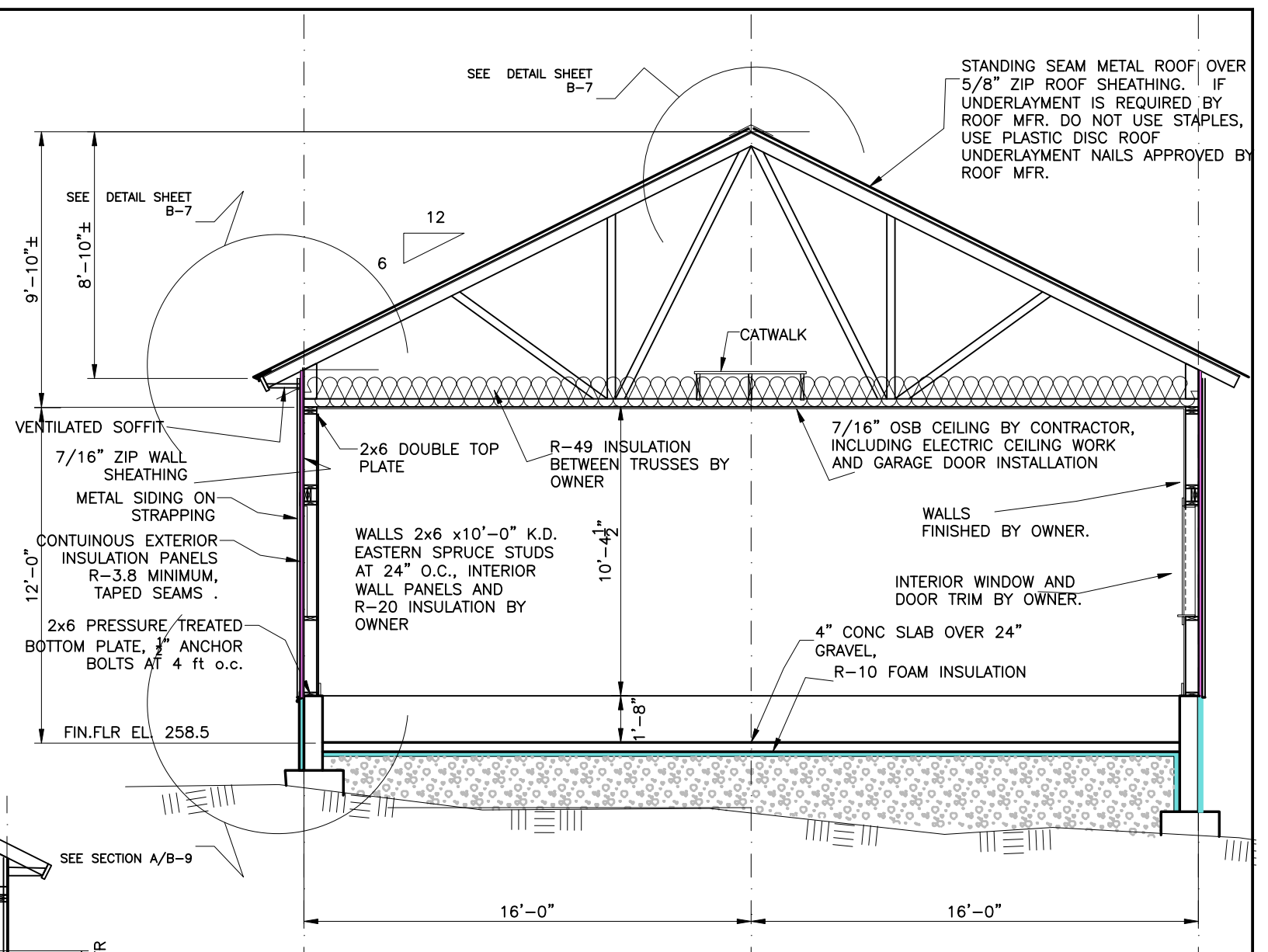


NO.	REVISION	DATE
1	BGS REVIEW	2-11-22
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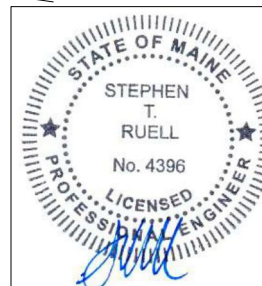
DESIGNED BY	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
DRAWN BY	
DATE REVISIED	
Carpentry Shop	
ROOF FRAMING PLAN	
Pinnacle Hill Engineering PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
B-4	REV. 2



EAST WALL FRAMING ELEVATION



BUILDING CROSS SECTION



NO.	REVISION	DATE
1	BGS REVIEW	2-11-22
2	ISSUED FOR BID	5-11-22

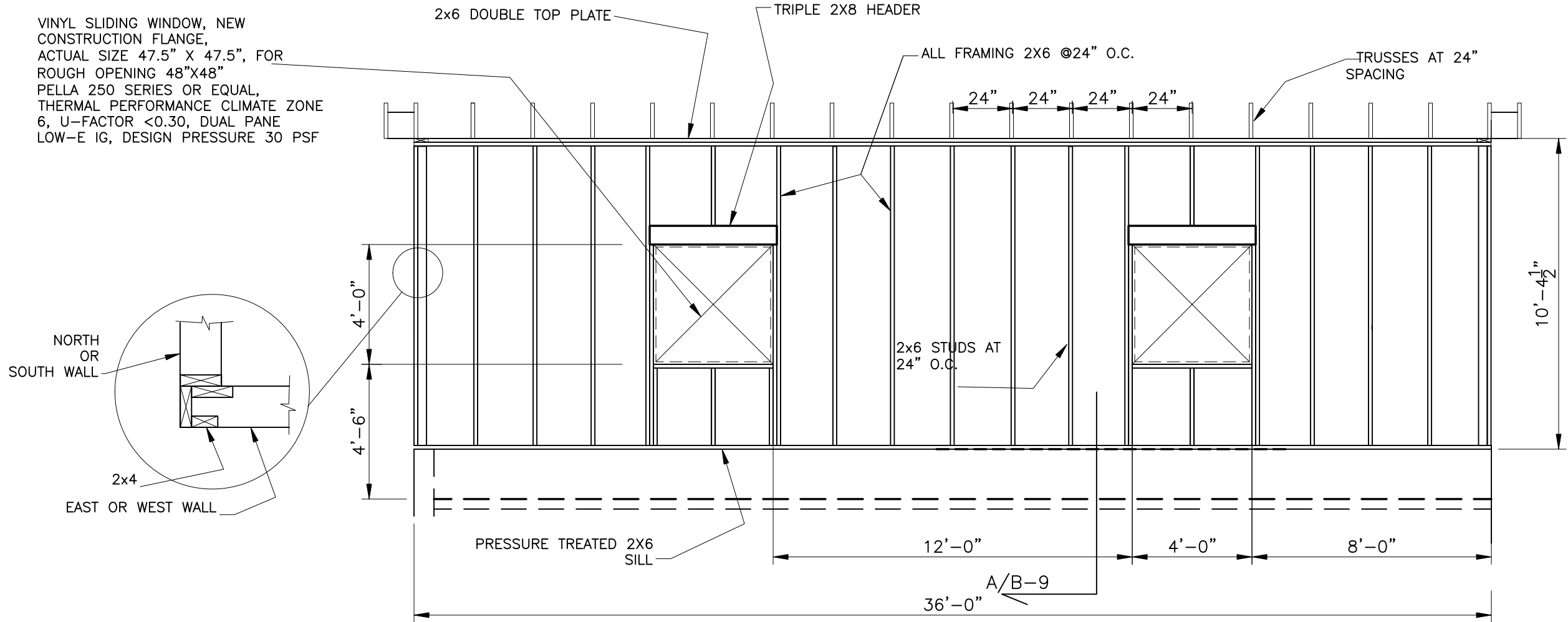
DESIGNED BY
DRAWN BY
STR
DATE REVISED
5-11-22

Maine Department of Agriculture, Conservation and Forestry
Bureau of Parks and Lands
Richmond Maintenance Facility

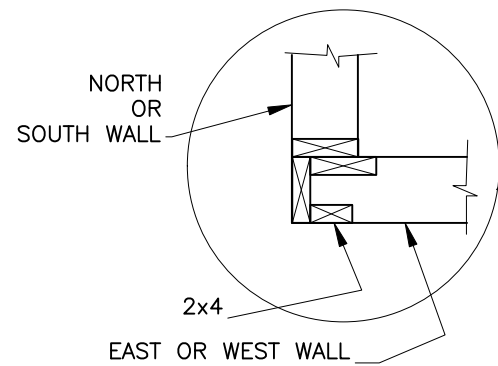
Carpentry Shop
FRAMING ELEVATIONS

Pinnacle Hill Engineering
33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

B-5
REV. 2



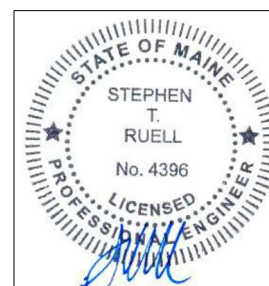
VINYL SLIDING WINDOW, NEW CONSTRUCTION FLANGE, ACTUAL SIZE 47.5" X 47.5", FOR ROUGH OPENING 48"X48" PELLA 250 SERIES OR EQUAL, THERMAL PERFORMANCE CLIMATE ZONE 6, U-FACTOR <0.30, DUAL PANE LOW-E IG, DESIGN PRESSURE 30 PSF



NORTH WALL FRAMING ELEVATION



(SOUTH WALL SIMILAR EXCEPT WINDOWS)



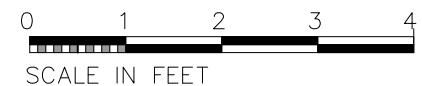
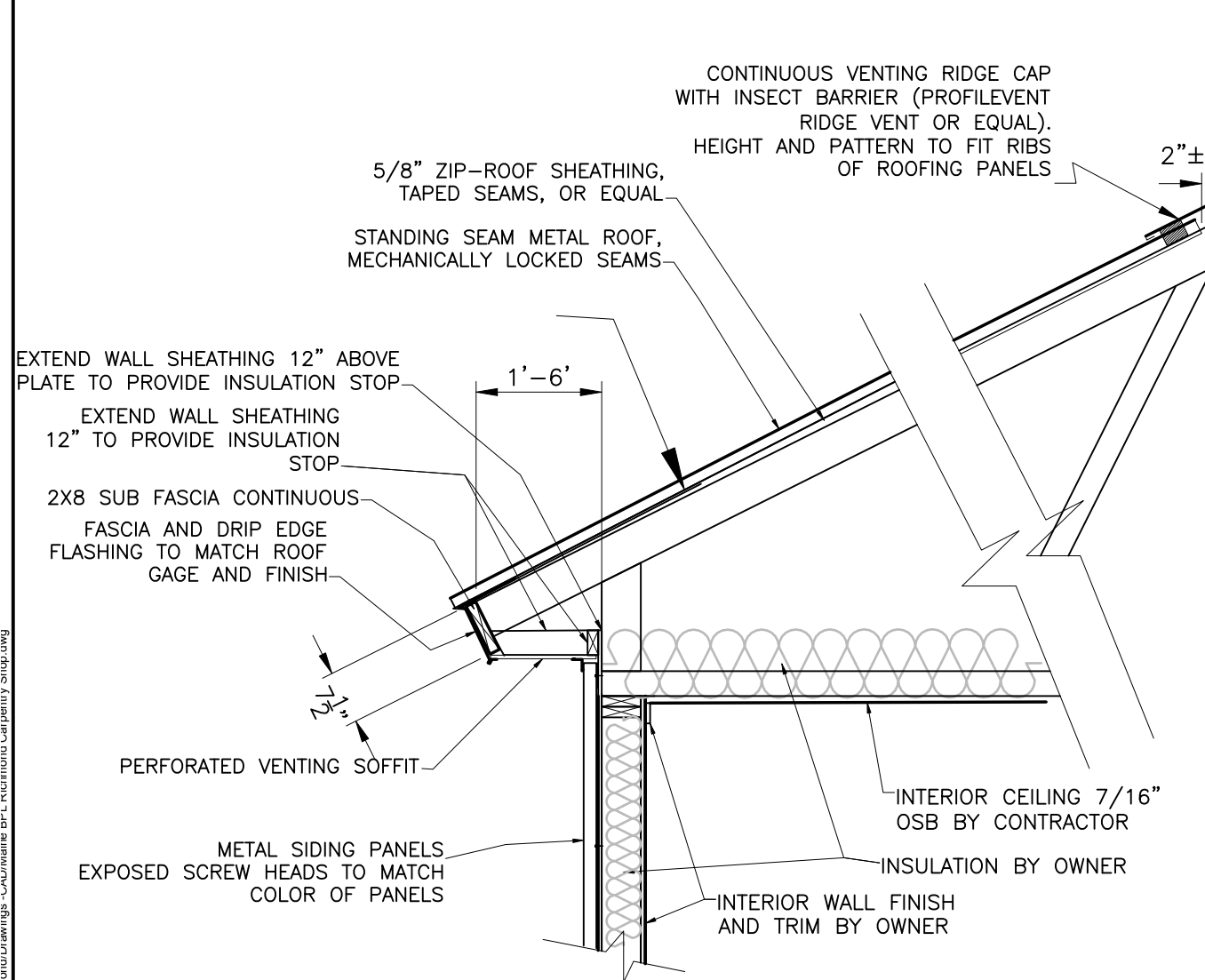
NO.	REVISION	DATE
1	BGS REVIEW	2-11-22
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DESIGNED BY -	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
DRAWN BY STR	
DATE REVISED 5-11-22	Carpentry Shop FRAMING ELEVATIONS
PINNACLE HILL ENGINEERING PinnacleHillEngineering@gmail.com	
33 Pinnacle Road Canaan, ME 04924	

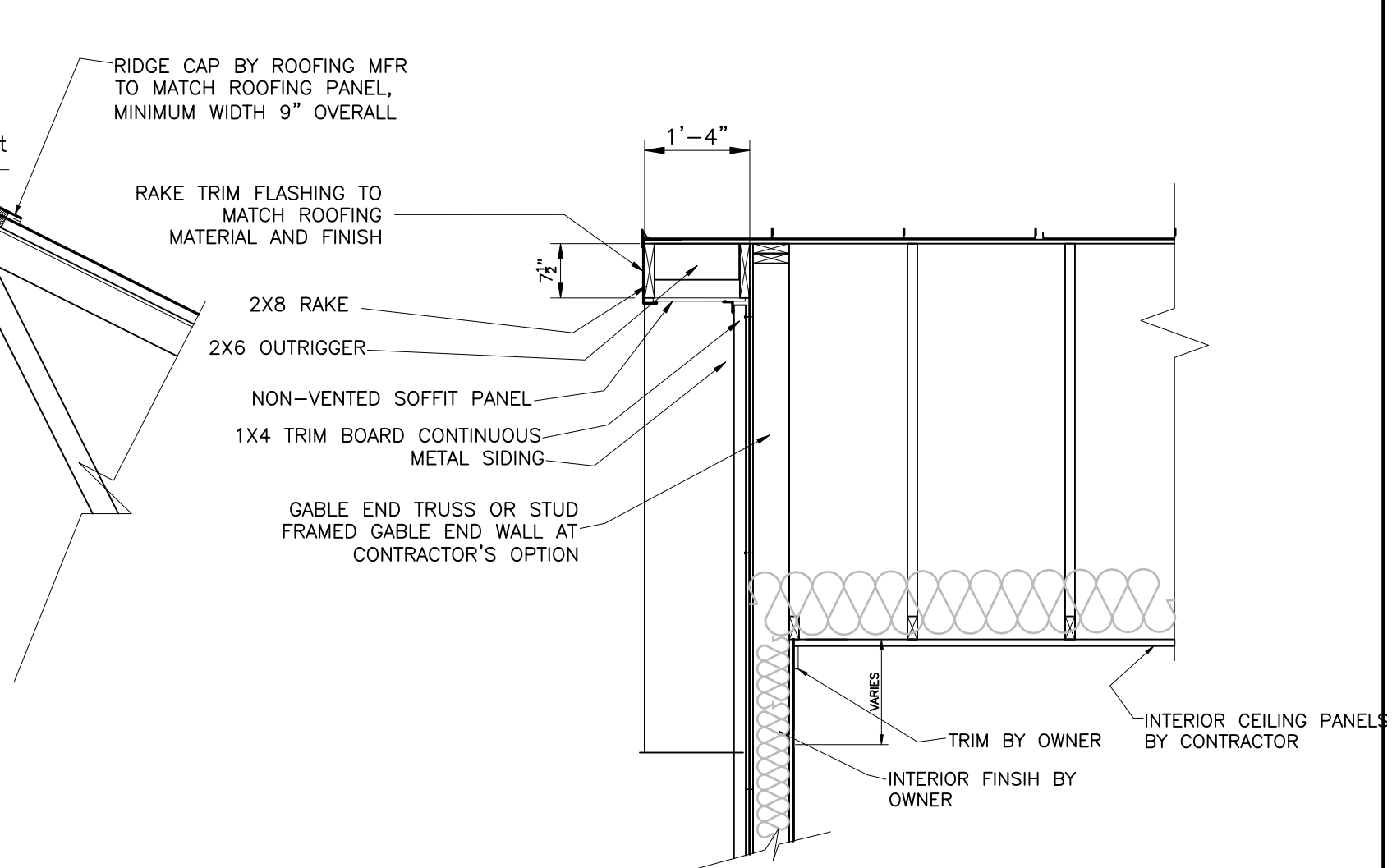
11A11 - FULL SCALE

PLANNING DIVISION
DESIGN DIVISION
CONSTRUCTION DIVISION
OPERATIONS DIVISION
SALES AND MARKETING DIVISION
PROPERTY DIVISION
GENERAL SERVICES DIVISION
INFORMATION DIVISION
MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY

PLANNING DIVISION
DESIGN DIVISION
CONSTRUCTION DIVISION
OPERATIONS DIVISION
SALES AND MARKETING DIVISION
PROPERTY DIVISION
GENERAL SERVICES DIVISION
INFORMATION DIVISION
MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY

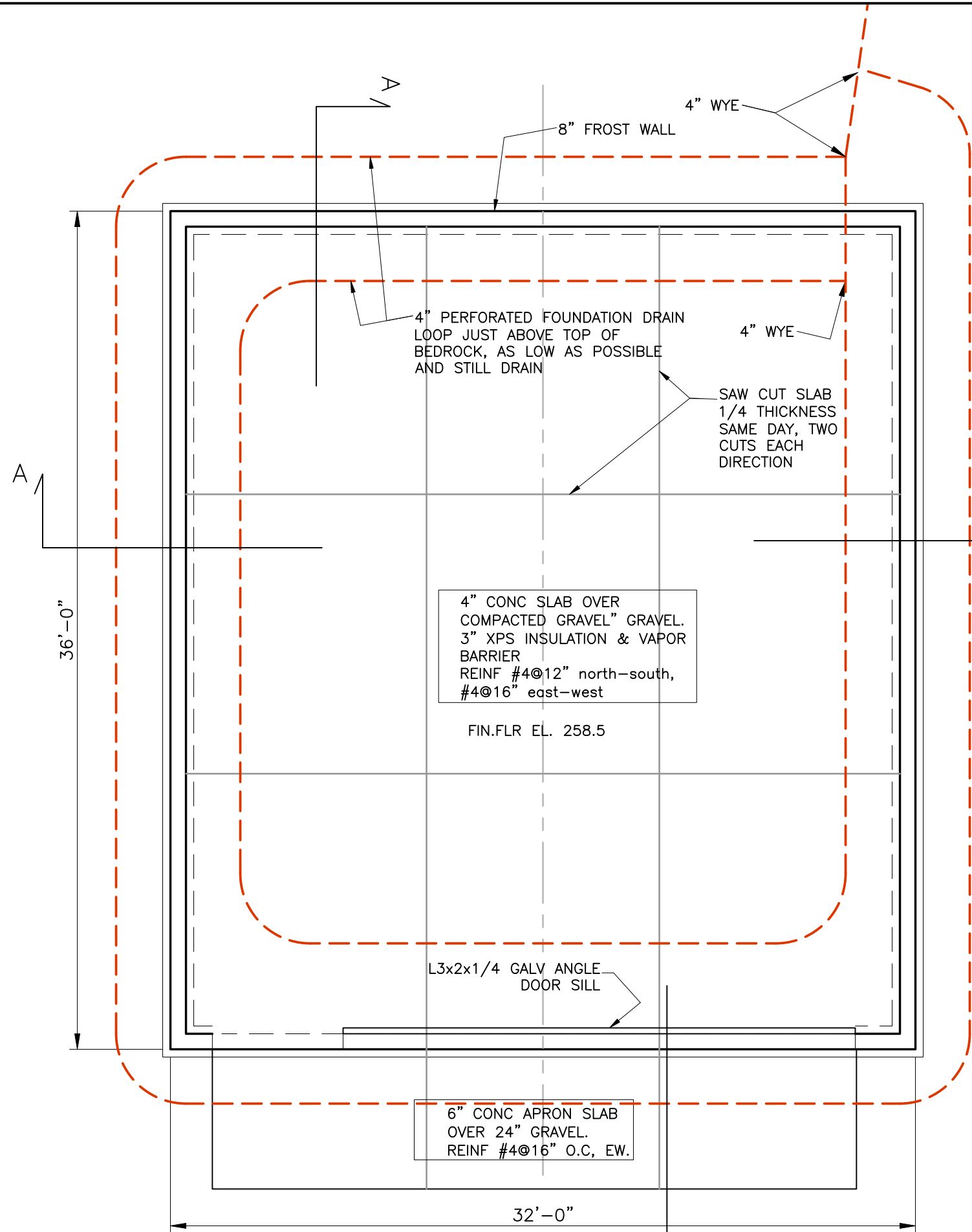


EAVE AND RIDGE DETAIL

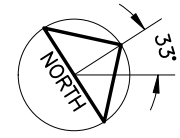


RAKE DETAIL

	NO.	REVISION	DATE	DESIGNED BY -	Maine Department of Agriculture, Conservation and Forestry Bureau of Parks and Lands Richmond Maintenance Facility
	1	BGS REVIEW	2-11-22	DRAWN BY STR	
2	ISSUED FOR BID	5-11-22			
				DATE REVISED 5-11-22	
				Pinnacle Hill ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
					B-7 REV. 2

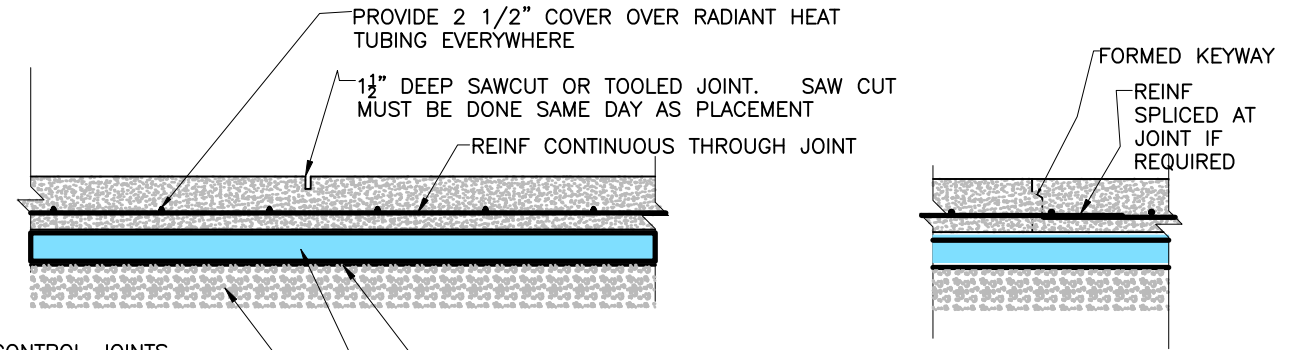


FOUNDATION PLAN



CONCRETE NOTES

1. ALL FOOTING CONCRETE IS PLACED DIRECTLY AGAINST ROCK SURFACES CLEANED TO REMOVE DIRT OR LOOSE ROCK.
2. CONCRETE: 4000 PSI @ 28 DAYS, AIR ENTRAINED 5% TO 7%
3. REINFORCEMENT: 60,000 PSI, ASTM A615
4. HOOKS: ACI STANDARD
5. REBAR COVER: 2" UNLESS NOTED OTHERWISE
6. CONCRETE ANCHORS UNLESS OTHERWISE SPECIFIED: HILTI "HAS" SUPER OR STD ADHESIVE ANCHOR OR APPROVED EQUAL. INSTALL TO MANUFACTURER'S RECOMMENDED DEPTH FOR ANCHOR SIZE.
7. MOIST CURE MINIMUM OF 7 DAYS. CONFORM TO ACI 301 AND ACI 318 FOR CONSTRUCTION METHODS, AND PLACEMENT SPECIFICATIONS. DO NOT USE LIQUID CURING AGENTS WHICH WILL INHIBIT BOND OF FUTURE FLOOR COATINGS AS DESIGNATED BY THE OWNER.
8. UNLESS NOTED OTHERWISE PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES.
9. FIELD BEND REINFORCING BARS TO CLEAR INCIDENTAL BOXOUTS WHERE REQUIRED.
10. VERTICAL CONCRETE SURFACES SHALL HAVE A SMOOTH FORMED FINISH. FILL AIR HOLES AND VOIDS LARGER THAN 1/4". REMOVE FINS AND DRESS SURFACE, FILL AIR POCKETS AND RAT HOLES. SNAP TIES SHALL BE REMOVED TO BELOW SURFACE AND HOLES FILLED.
11. HORIZONTAL CONCRETE SURFACES ON INTERIOR SHALL HAVE A SMOOTH STEEL TROWEL FINISH (U.N.O.).
12. HORIZONTAL CONCRETE SURFACES ON EXTERIOR SHALL HAVE A WOOD FLOAT OR BROOM FINISH (U.N.O.).



LOCATE CONTROL JOINTS AS SHOWN ON PLAN, LOCATE CONSTRUCTION JOINTS AT THOSE SAME CONTROL JOINT LINES

ALTERNATE PREFORMED CONTROL JOINTS MAY BE USED IN LIEU OF SAW CUT, SUBJECT TO OWNER APPROVAL

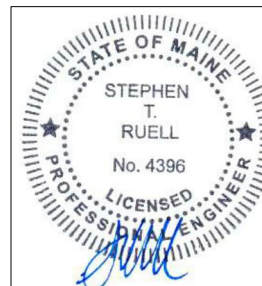
CLASS 1 VAPOR RETARDER SHEET SEAMS LAPPED 6" AND TAPED, EDGES TAPED TO WALLS. ALL PUNCTURES AND TEARS TAPED. USE ONLY TAPE FROM SAME MFR AS THE SHEET

GRAVEL SUB BASE

3" XPS POLYSTYRENE FOAM INSULATION R-15 UNDER SLAB

CONSTRUCTION JOINTS

TYPICAL SLAB DETAIL- CONTROL JOINTS



NO.	REVISION	DATE
1	BGS REVIEW	2-11-22
2	ISSUED FOR BID	5-11-22

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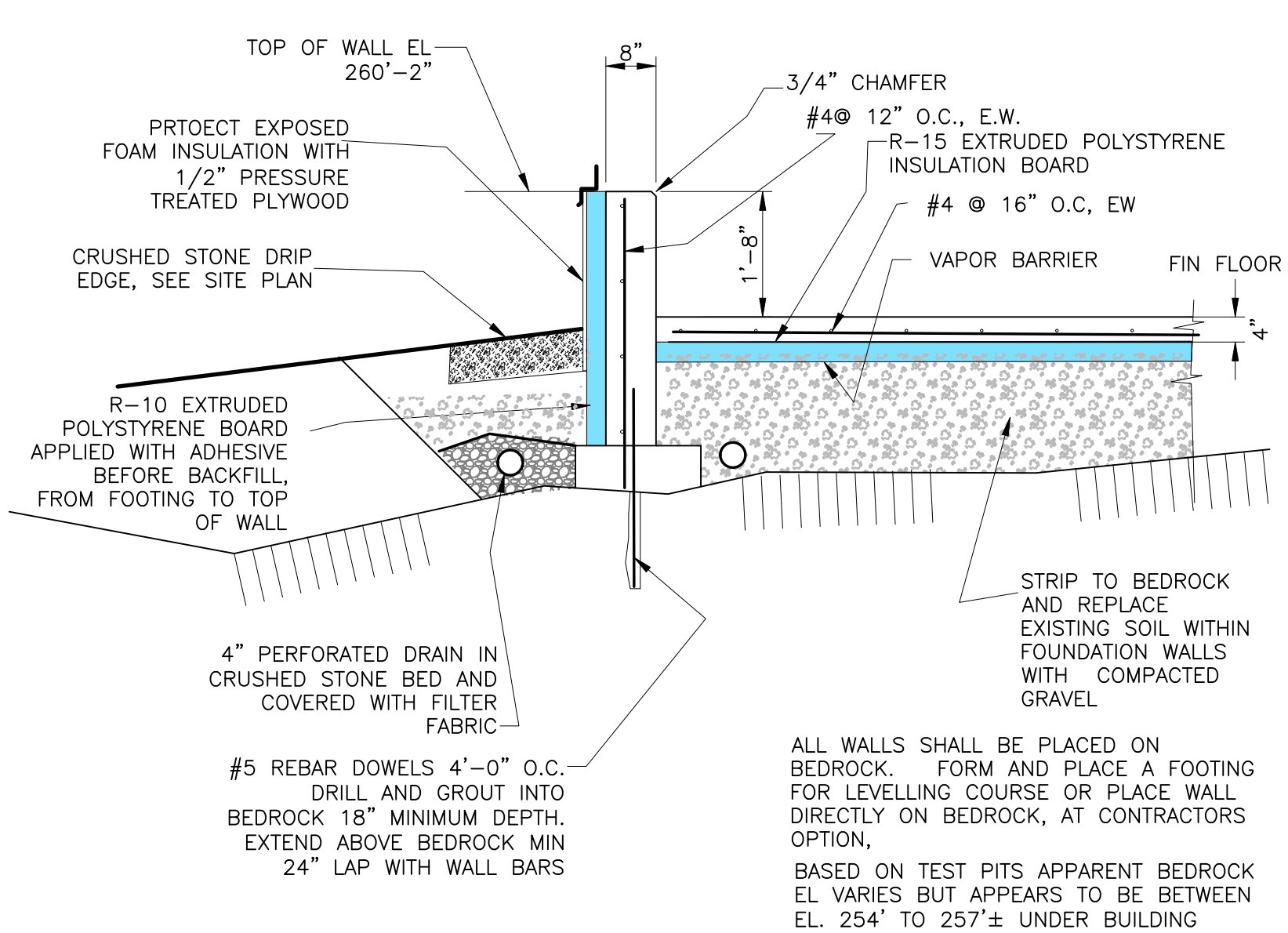
**Carpentry Shop
FOUNDATION PLAN**

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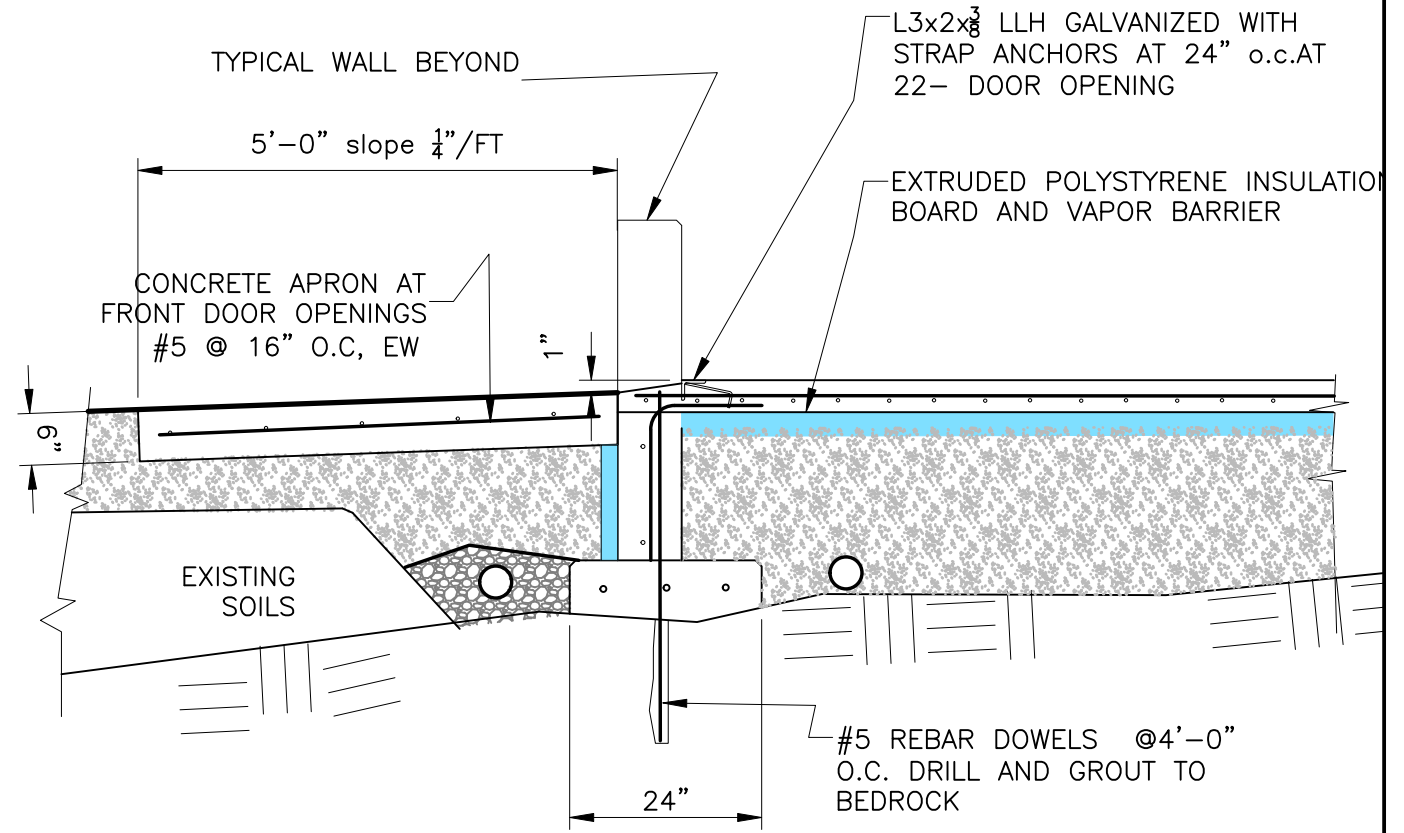
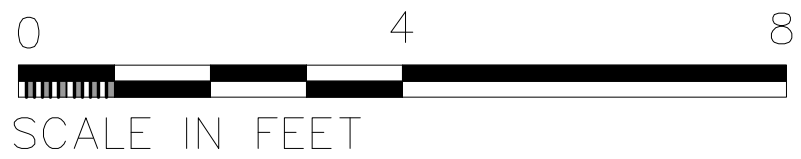
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11/17 - FULL SCALE

DRAIN SHALL BE DAYLIGHTED OUTSIDE ON NORTHWEST CORNER. SEE SITE PLANS.



FOUNDATION SECTION -A



FOUNDATION SECTION -B



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PINNACLE HILL ENGINEERING 33 Pinnacle Road Canaan, ME 04924 PinnacleHillEngineering@gmail.com	
DATE REVISED 5-11-22	B-9 REV. 2

1/2" OXYGEN BARRIER PEX TUBING MANUFACTURED AND APPROVED BY APPLICABLE CODES FOR RADIANT HEATING APPLICATIONS. PROVIDE TUBING IN 300 FT COILS AND CUT SO THAT EACH RUN SHALL BE INSTALLED WITHOUT COUPLINGS. TIE TUBING TO THE NORTH SOUTH REBAR WITH ZIP TIES AT 24" MAX SPACING.

PROVIDE TWO TEMPERATURE SENSOR TUBES. PEX TUBING OF SAME SIZE BUT DIFFERNT COLOR, SEALED AT FAR END, FOR INSERTION OF SENSOR BY OTHERS.

BOTH ENDS OF EACH EMBEDDED TUBING RUN SHALL BE EXTENDED ABOVE FLOOR 48" MINIMUM.

EZ ROUTE PREMEIR MANIFOLD SYSTEM
www.theEZRoute.com

HEATING SYSTEM EQUIPMENT BY OTHERS

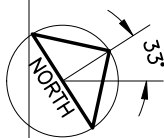
12'-0" ±

6" Minimum

6" Minimum

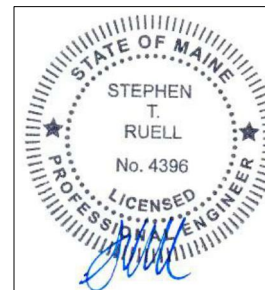
34'-8"

12" TYPICAL



LABEL ALL ENDS OF TUBING WITH LOOP NUMBER AND FLOW DIRECTION. CONNECT ENDS OF LOOPS INTO ONE CONTINUOUS CIRCUIT. PROVIDE TEST MANIFOLD AND PRESSURE TEST BEFORE CONCRETE PLACEMENT 40-100 PSI FOR 1 HOUR OR AS REQUIRED BY CODE. KEEP UNDER PRESSURE THROUGHOUT PLACEMENT TO PROVIDE FOR LEAK DETECTION AND REPAIR IF DAMAGE OCCURS DURING CONCRETE PLACEMENT

FLOOR SLAB HEATING PLAN



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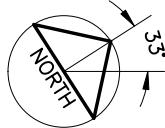
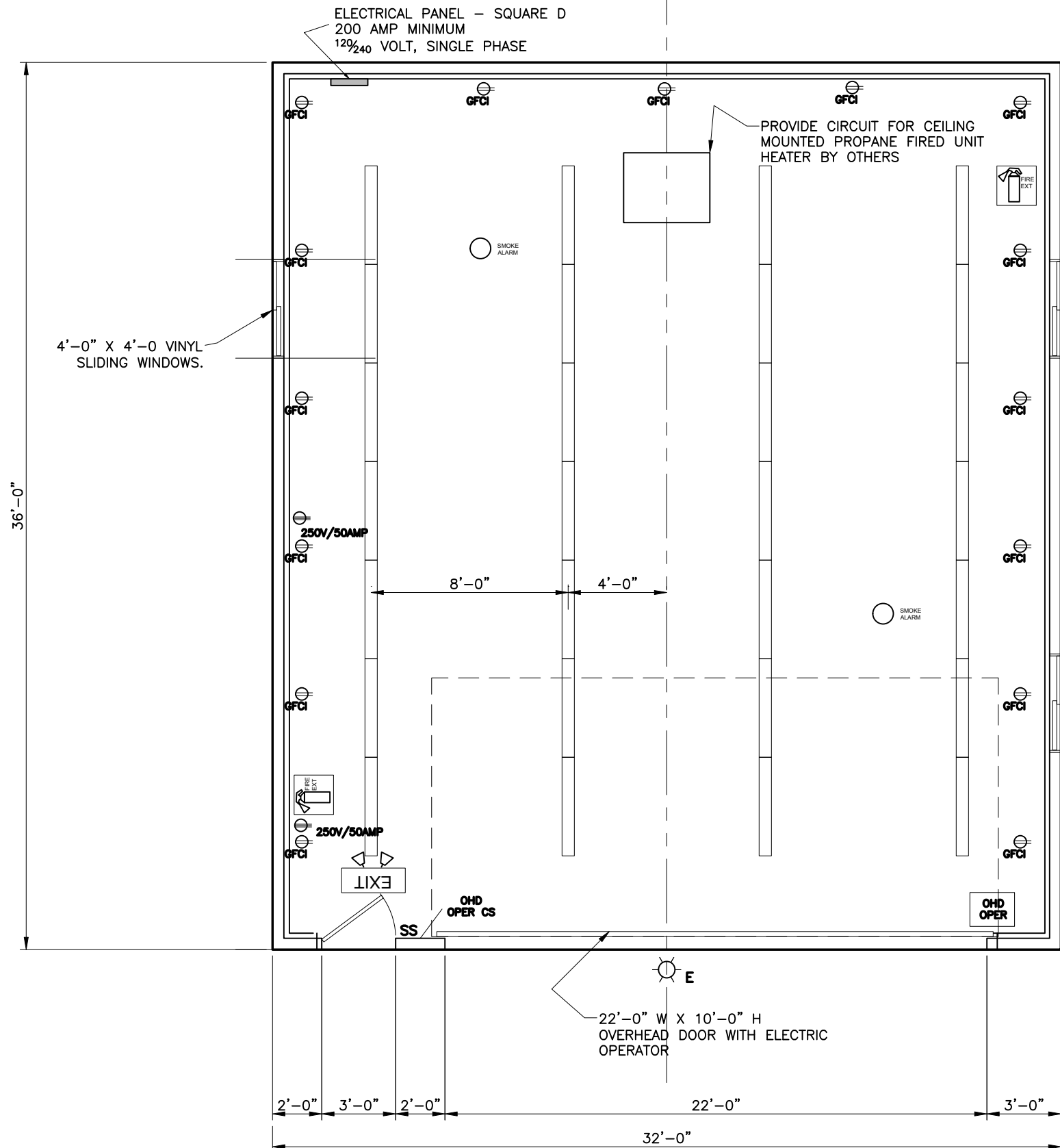
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FLOOR SLAB HEATING PLAN**

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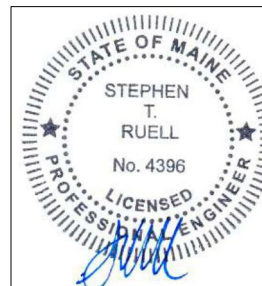
B-10
REV. 2



- 
ELECTRICAL PANEL - SQUARE D
 200 AMP MINIMUM
 120/240 VOLT, SINGLE PHASE
- 
GENERAL SHOP LIGHTING TO PROVIDE 100 LUMENS/SQ. FT., SURFACE MOUNTED ON CEILING. PROVIDE LITHONIA LIGHTING CSS LED STRIP LIGHTS, 80 CRI, 4000K COOL WHITE, OR EQUAL
- 
EXTERIOR LIGHTING -LED SURFACE MOUNTED EXTERIOR FIXTURE
 LITHONIA WSR-LED 1 10A700/30K SR2 120 DDBXD DOWNWARD ILLUMINATION ("DARK SKY" TYPE)
- 
GFCI DUPLEX RECEPTACLE OR PROTECTED BY GFCI BREAKER, 20 AMP TAMPER PROOF, MOUNT AT 24" AFF OR HIGHER
- 
PROVIDE 250 VOLT 50 AMP RECEPTACLE (NEMA 6-50 SOCKET) FOR ELECTRIC VEHICLE CHARGER OR WELDER. INSTALLED ON THE WALL AT FOUR FEET AFF. UNLESS DIRECTED OTHERWISE. SEPARATE BREAKER
- SSS** LIGHT SWITCHES
 3 SEPARATE SWITCHES FOR
 1. 1/2 OF CEILING LIGHT FIXTURES
 2. 1/2 OF CEILING LIGHT FIXTURES
 3. EXTERIOR LIGHTS
- 
SMOKE ALARM, 120VAC WITH BATTERY BACKUP, WIRED TO OWNERS SECURITY SYSTEM
- 
OVERHEAD DOOR OPERATOR PROVIDED BY DOOR MFR AS PART OF DOOR SUPPLY, WITH PROGRAMMABLE REMOTE CONTROL UNITS
- 
OVERHEAD DOOR OPERATOR CONTROL STATION
- 
FIRE EXTINGUISHER, ABC, PROVIDED BY OWNER
- 
COMBINATION LED EXIT SIGN WITH EMERGENCY LIGHT

THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION, SIZING AND COMPATIBILITY OF COMPONENTS AND FIXTURES, AND PROVIDING A COMPLETE INSTALLATION MEETING REQUIRED STATE AND FEDERAL CODES AND STANDARDS.

THE ELECTRICAL PLAN IS PROVIDED TO SHOW THE OWNER'S INTENTION FOR GENERAL LAYOUT AND COMPONENTS TO BE INCLUDED, AND IS SCHEMATIC, NO ELECTRICAL DESIGN HAS BEEN PERFORMED.



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**Carpentry Shop
ELECTRICAL PLAN**

PINNACLE HILL ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
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E-1
REV. 2