Town of Groton Public Works Facility

Groton, NH 03241



PROJECT TEAM

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TOWN O

TOWN OF GROTON
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GROTON, NH 03241

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CONTACT: DOUG SONSALLA

EMAIL: dougs@studionexusarch.com PHONE: 802.275.5110 EXT. 102

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176 NEWPORT ROAD, SUITE 8 NEW LONDON, NH 03257

CONTACT: WILL DAVIS

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HORIZONS ENGINEERING INC.

176 NEWPORT ROAD, SUITE 8 NEW LONDON, NH 03257

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EMAIL: awolfson-slepian@horizonsengineering.com

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MECHANICAL ELECTRICAL, & PLUMBING: DESIGN/BUILD: DEFERRED SUBMITTAL

DRAWING INDEX

GENERAL:

- G-1 COVER SHEET (ARCHITECTURAL)
- G-2 SEPTIC PLAN (APPROVED)
- G-3 GARAGE POST FRAME SHELL
- G-4 SALT SHED POST FRAME SHELL ALTERNATE #1

CIVIL:

- I COVER SHEET
- 2 EXISTING CONDITIONS PLAN
- 3 GRADING AND DRAINAGE PLAN
- 4 EROSION CONTROL DETAILS
- 5 SITE DETAILS

STRUCTURAL:

- SN GENERAL NOTES
- S0.0 POST FRAME GARAGE FOUNDATION PLANS
- S0.1 POST FRAME SHED FOUNDATION PLANS

ARCHITECTURAL:

- A1-0 ARCHITECTURAL SPECIFICATIONS & CODE REVIEW
- A2-1 FIRST FLOOR PLAN AND DOOR SCHEDULE
- A3-1 REFLECTED CEILING PLANS
- A4-1 ELEVATIONS AND BUILDING SECTIONS
- A6-1 ENLARGED PLANS & INTERIOR ELEVATIONS
- 47-1 INTERIOR AND EXTERIOR DETAILS

EXTERIOR INTERIOR EXTERIOR METAL WALL SYSTEM 5/8" MOISTURE AND MILDEW 5/8" MOISTURE AND MILDEW RESISTANT GYPSUM BOARD RESISTANT GYPSUM BOARD (OMIT INTERIOR METAL PANEL IN 5 1/2" ACOUSTIC INSULATION AREAS AS INDICATED ON PLANS) **BETWEEN STUDS R-19 MINIMUM INSULATION** 5 1/2" WOOD STUD @ 16" OC WITH 5 1/2" WOOD STUD @ 24" OC PRESSURE TREATED SILLS WHERE IN JOINTS AND SCREW HEADS COVERED CONTACT WITH CONCRETE WITH JOINT COMPOUND AND TAPE JOINTS AND SCREW HEADS COVERED WITH JOINT COMPOUND AND TAPE HORIZONTAL PURLINS CAULKING AND SEALANTS (NOT SHOWN) CAULKING AND SEALANTS (NOT SHOWN) APPLY BEAD OF ACOUSTICAL SEALANT APPLY BEAD OF ACOUSTICAL SEALANT AROUND PARTITION PERIMETER FOR AROUND PARTITION PERIMETER FOR SOUND CONTROL AND TO LIMIT THE SOUND CONTROL AND TO LIMIT THE PASSAGE OF SMOKE PASSAGE OF SMOKE AS INDICATED ABOVE **GYPSUM BOARD ON ONE** SIDE ONLY. 2X4 WOOD STUD WALL TYPE "B" UNRATED 2 WALL TYPE "A" UNRATED 3" = 1'-0"

WALL TYPE AND FLOOR/CEILING ASSEMBLY NOTES: 1. SEE FLOOR PLAN FOR ALL PARTITION TYPES AND LOCATIONS

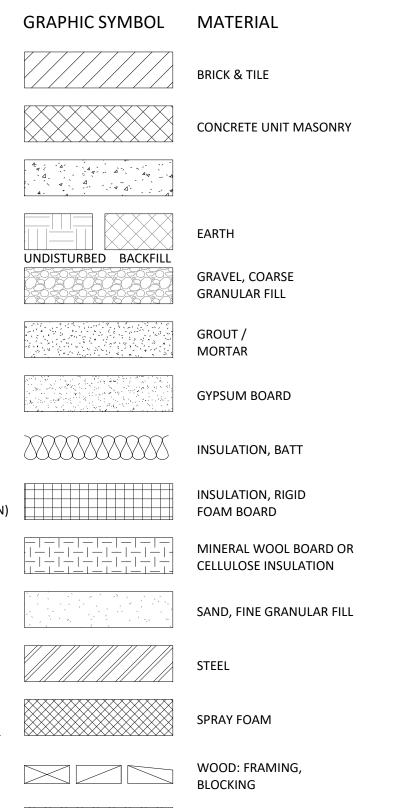
- PROVIDE MOISTURE AND MOLD RESISTANT GYPSUM BOARD AT THE INTERIOR WALLS OF ALL BATHROOMS AND THE BOTTOM 4' OF WALLS ON CONCRETE SLABS AND AT ALL WALLS BELOW GRADE.
- 3. FIREBLOCK CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR
- STAGGERED STUDS, VERTICALLY AT THE CEILING AND FLOOR LEVELS AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

GENERAL ARCHITECTURAL NOTES:

- L. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF ALL APPLICABLE NATIONAL, STATE, AND LOCAL BUILDING AND ZONING CODES AND IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF ALL APPLICABLE CONSTRUCTION STANDARDS IN THE ILLIPISDICTION OF THE BUILDING
- 2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN FOR OR TO EXISTING CONSTRUCTION PRIOR TO FABRICATION OR NEW CONSTRUCTION. DO NOT SCALE DRAWINGS. PLEASE NOTIFY STUDIO NEXUS, ARCHITECTS + PLANNERS OF ANY DIMENSIONAL DISCREPANCIES IMMEDIATELY. ALL EXISTING INTERIOR AND EXTERIOR DIMENSIONS ARE TO THE FACE OF FINISHES AND ALL NEW INTERIOR AND EXTERIOR DIMENSIONS ARE TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
- 3. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
- RECEIVE MILLWORK, TRIM, LIGHT FIXTURES, ACCESSORIES, OR OTHER SURFACE MOUNTED ITEMS.

 5. REPAIR FINISHES AFFECTED BY INSTALLATION OF STRUCTURAL MECHANICAL. ELECTRICAL AND PLUMBING ELEMENTS. MATCH THE
- 5. REPAIR FINISHES AFFECTED BY INSTALLATION OF STRUCTURAL MECHANICAL, ELECTRICAL AND PLUMBING ELEMENTS. MATCH THE EXISTING ADJACENT SURFACES AND APPEARANCE. REPAIR/REPLACE ANY AND ALL DAMAGED ITEMS.
- 7. THE FINAL SELECTION OR SUBSTITUTION OF MATERIALS CAN CREATE VARIATIONS IN DIMENSIONS AND DETAILS OF THE FINISHED PRODUCT AND MUST BE CAREFULLY COORDINATED. CHECK ALL DIMENSIONS AND DETAILS FOR OVERALL ACCURACY APPROPRIATE TO THE LOCAL CONDITIONS. FOR EXAMPLE, IF STANDARD LUMBER JOISTS ARE USED IN PLACE OF ENGINEERED FLOOR JOISTS, THE FLOOR TO-FLOOR DIMENSION WOULD REQUIRE REVISED STAIR DIMENSION AND FRAMING. CHANGES DUE TO SUBSTITUTIONS ARE THE
- 8. ENCLOSURE ASSEMBLIES AND COMPONENTS ARE BASED ON MEETING THE PRESCRIPTIVE REQUIREMENTS OF THE GOVERNING
- 9. ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED ADJUSTED, OPERATED AND CONDITIONED AS DIRECTED BY THE MANUFACTURERS. ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED TO SUSTAIN AND PRESERVE ALL EXPRESSED OR IMPLIED WARRANTIES AND GUARANTEES.
- 10. OWNER PROVIDED EQUIPMENT AND APPLIANCES ARE TO BE COORDINATED AS AN ALLOWANCE AND ARE TO BE CONTRACTOR PROVIDED AND INSTALLED. THE GENERAL CONTRACTOR AND DESIGN/BUILD CONTRACTORS SHALL COORDINATE ALL OWNER EQUIPMENT AND APPLIANCE SIZES AND SPECIFICATIONS, PRIOR TO ORDERING OR PERFORMING WORK FOR PROPER INTEGRATION. PROVIDE SOLID WOOD BLOCKING IN THE WALLS TO ACCOMMODATE ANTICIPATED LOADS. NOTIFY ARCHITECT OF ANY DISCREPANCY WITH THE PLANS BEFORE PROCEEDING WITH THE WORK.
- 11. DATA AND PHONE SYSTEM SHALL BE INCLUDED. COORDINATE SCHEDULING WITH THE OWNER TO ENSURE TIMELY INSTALLATION BY THE OWNER OR OWNER'S VENDOR. INTEGRATE SYSTEMS TO BE CONCEALED AND COORDINATE ROUTING AND DESIGN OF SOFFITS AND SHAFTS WITH THE ARCHITECT. OWNER AND OTHER TRADES.
- 12. REFER TO THE PROJECT MANUAL FOR DIVISION ONE SPECIFICATIONS AS WELL AS FOR POST-FRAME METAL PANEL CLAD BUILDING GARAGE CORE/SHELL AND SALT SHED. ALL OTHER SPECIFICATIONS ARE ON THE DRAWINGS, NOTIFY ARCHITECT OF ANY DISCREPANCY, MISSING INFORMATION, OR IF A PRODUCT THAT IS NOT READILY AVAILABLE.

MATERIAL LEGEND DR



WOOD PANEL IN

SECTION / ELEVATION

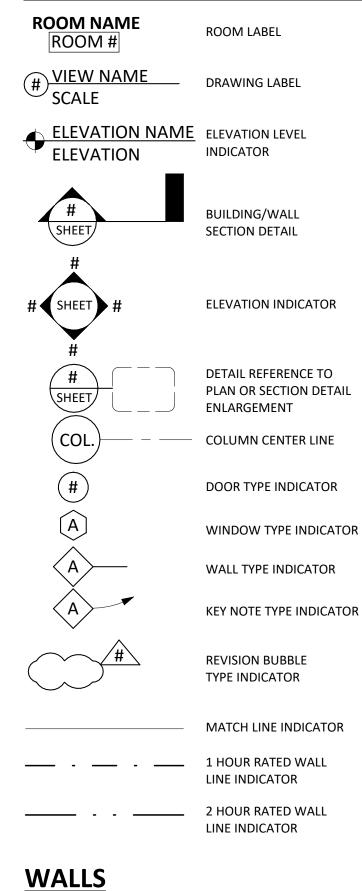
WOOD SHEATHING /

COMPOSITE WOOD /

PVC TRIM OR SHEATHING

PLYWOOD

DRAWING SYMBOLS:



EXISTING WALL OR

COMPONENT TO REMAIN

WALL OR COMPONENT TO BE REMOVED

UNLESS NOTED OTHERWISE

NEW WALL OR COMPONENT



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Town of Groton

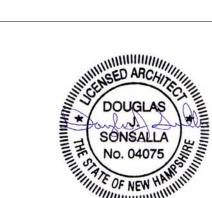
Public Works

Facility

754 North Groton Road Groton, NH 03241

Issued For:

BIDDING



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Issue D	ate:	November 1, 202			
Revisions					
No.		Description	Date		

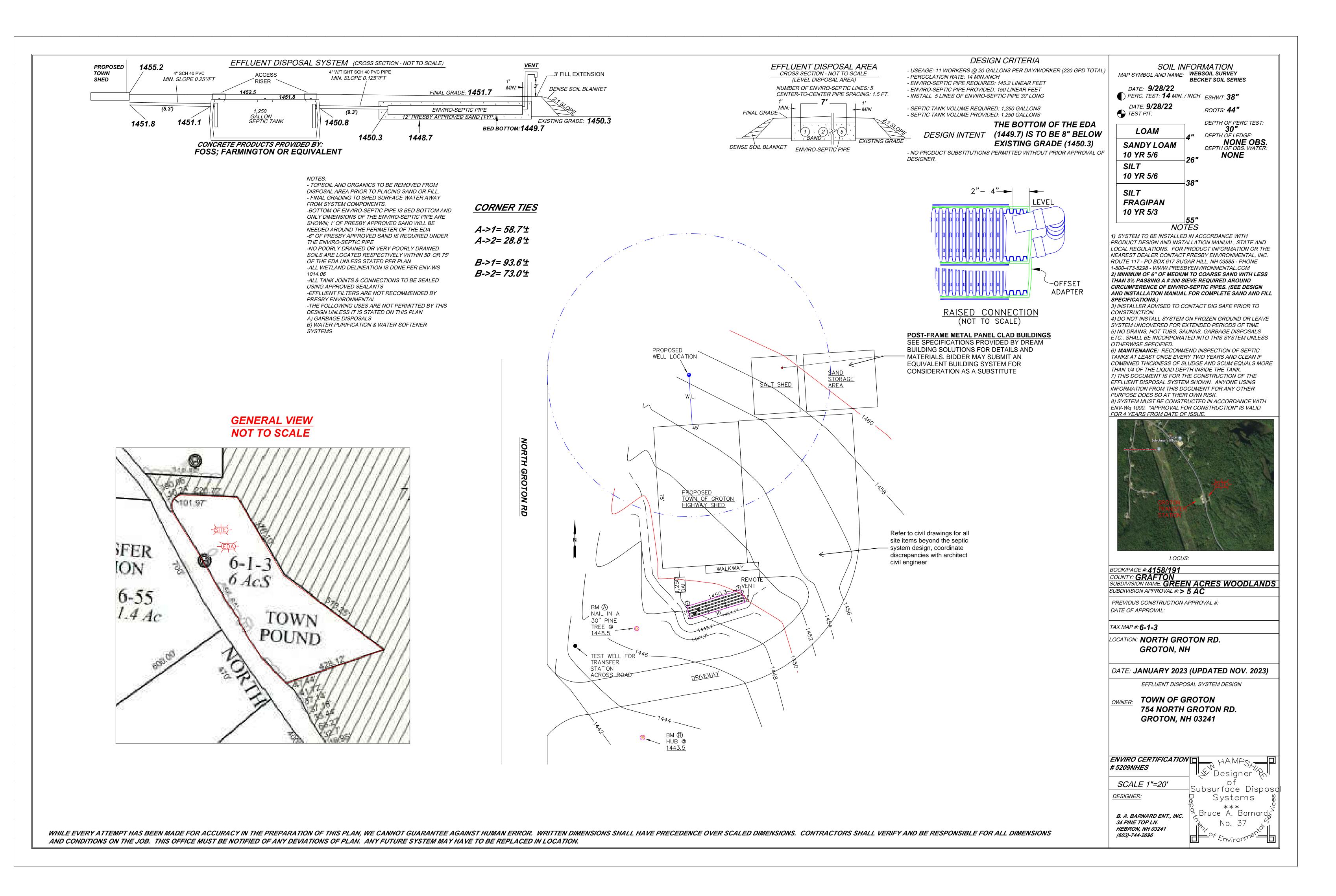
COVER SHEET, PROJECT TEAM & DRAWING INDEX

Project No : 2030

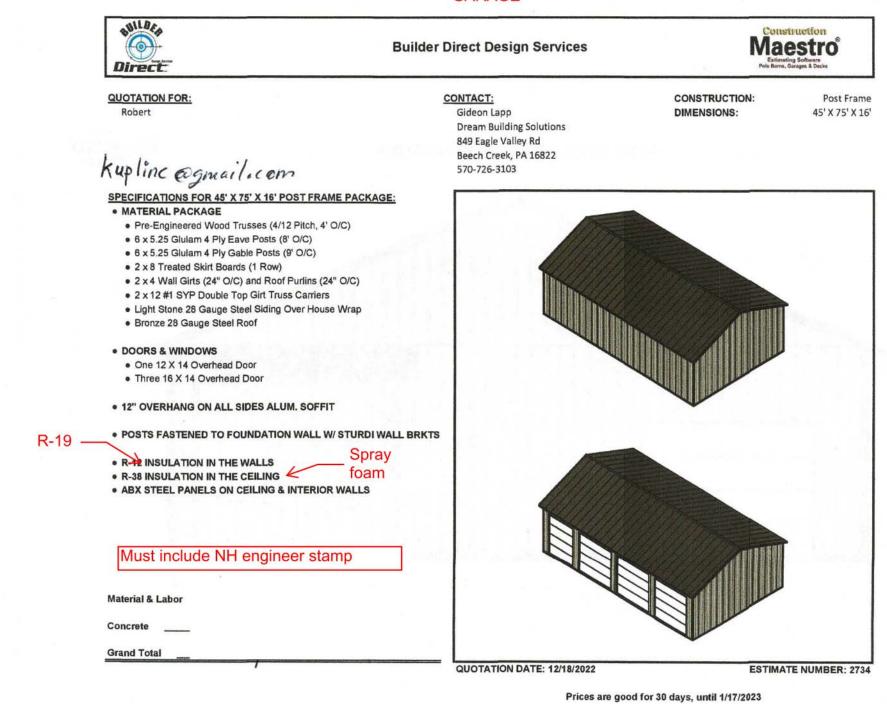
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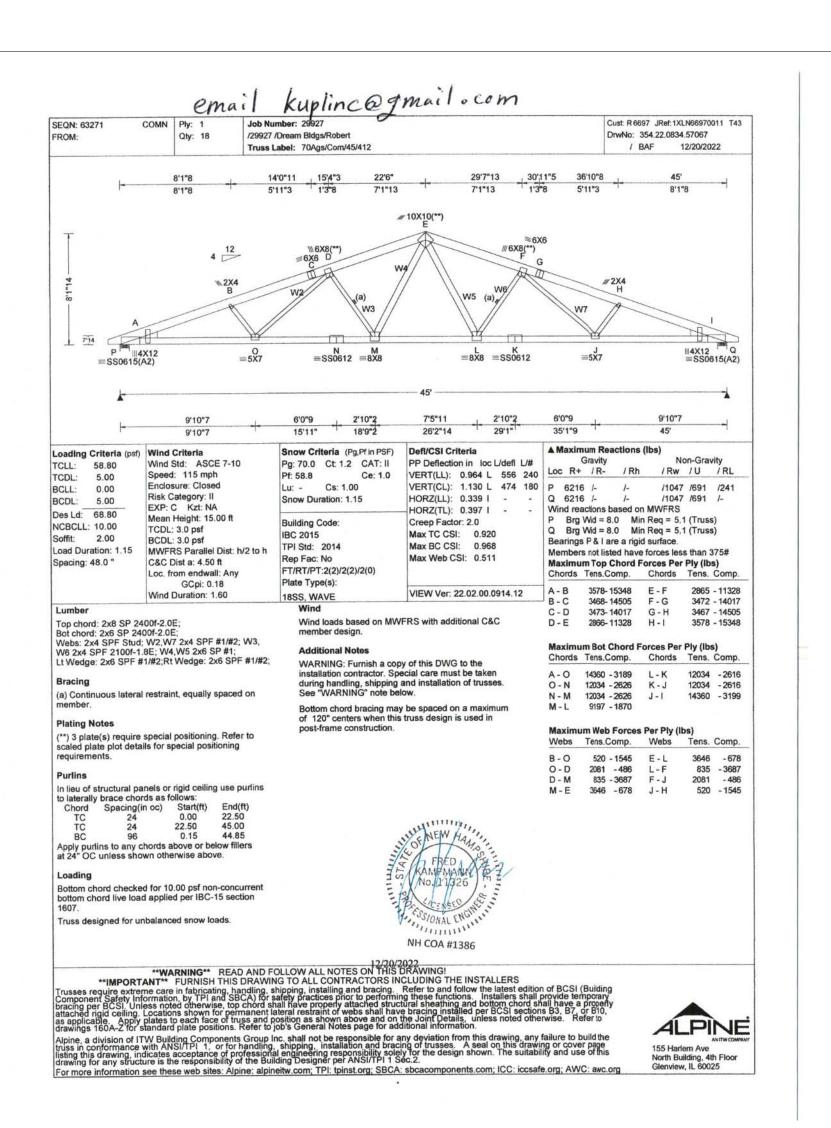
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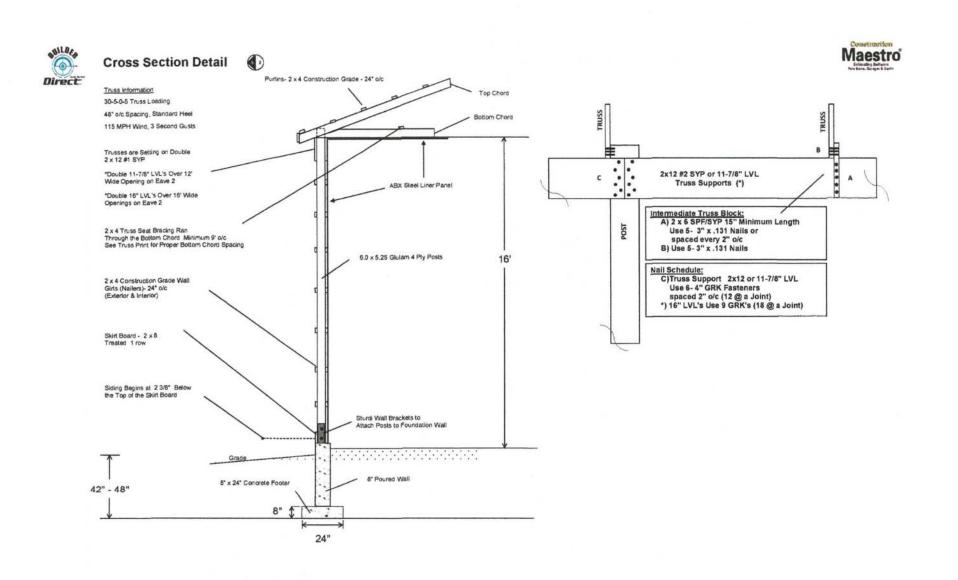
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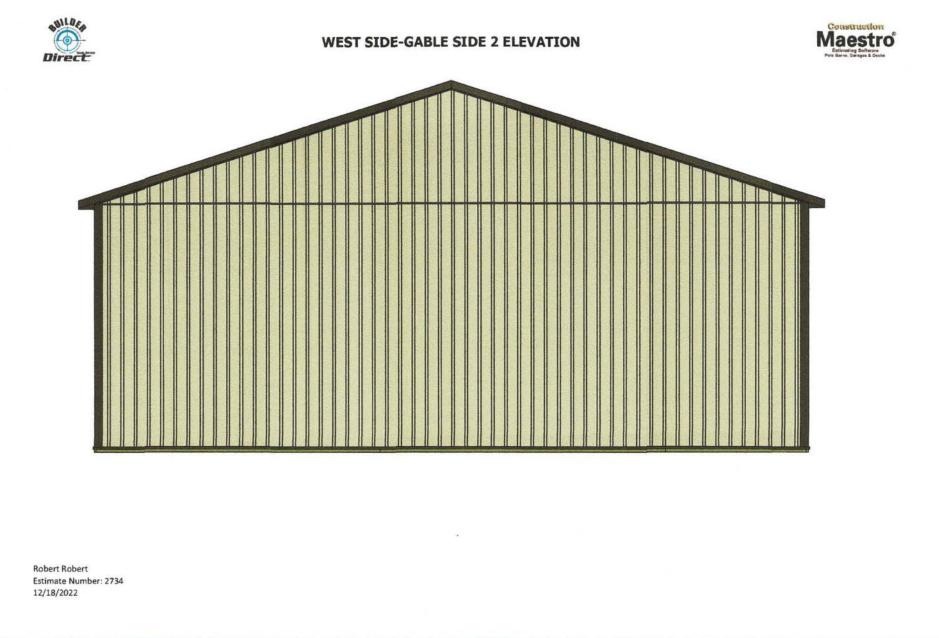


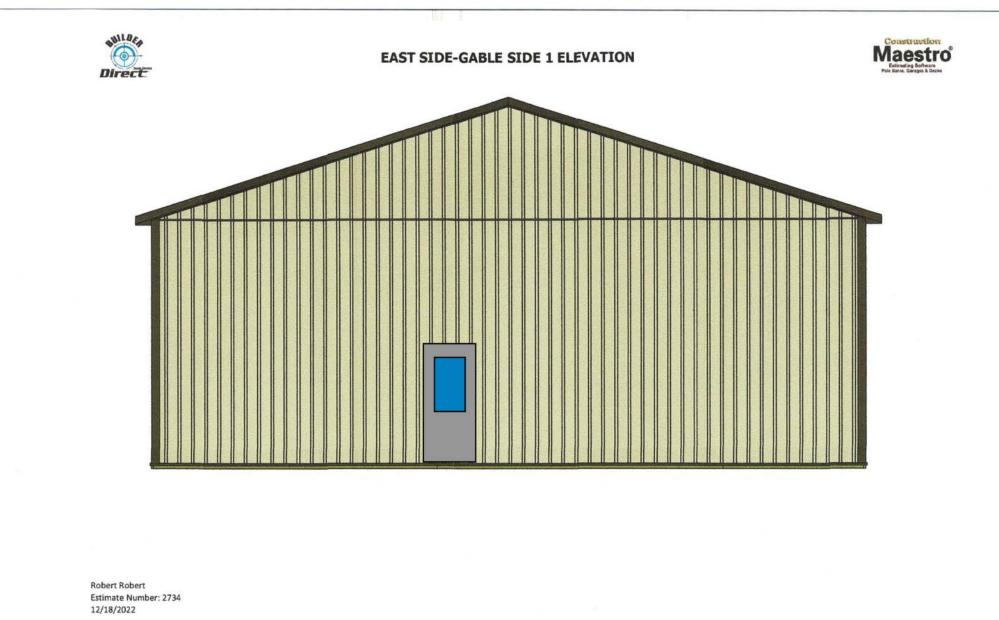
GARAGE

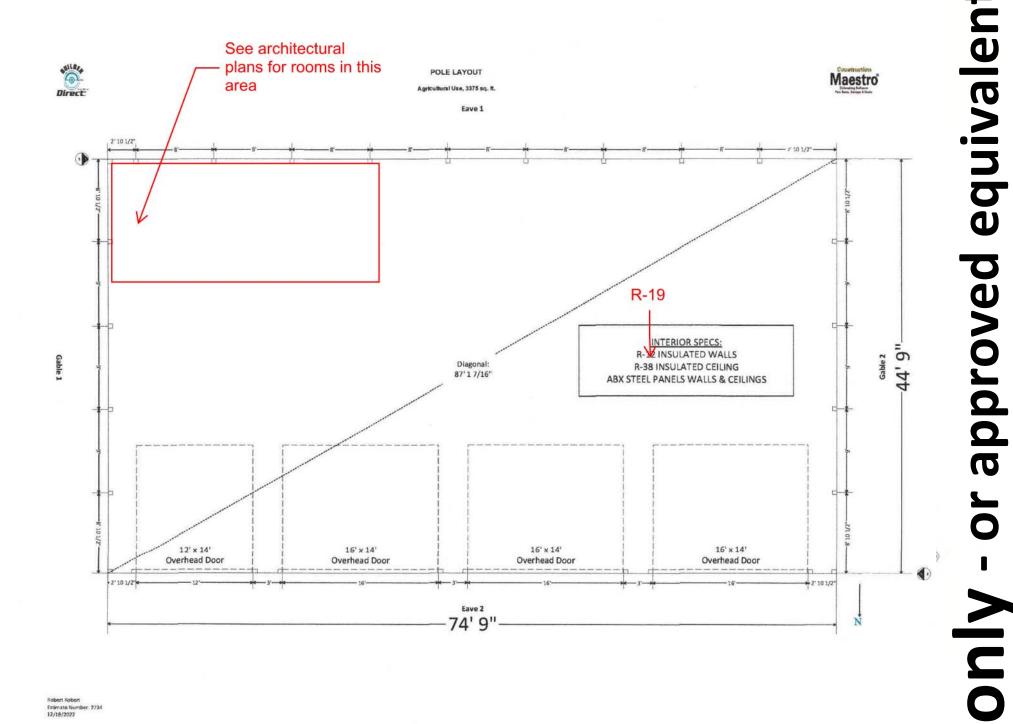


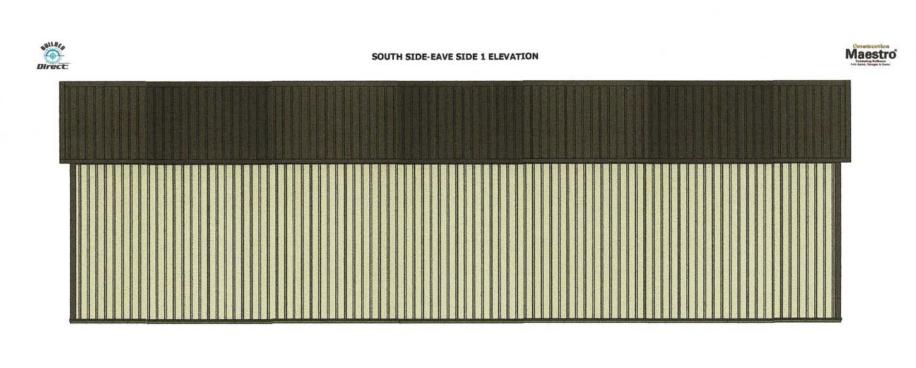












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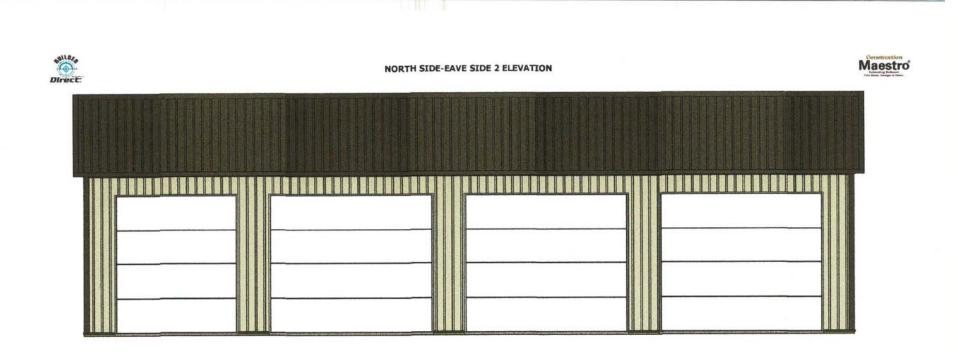
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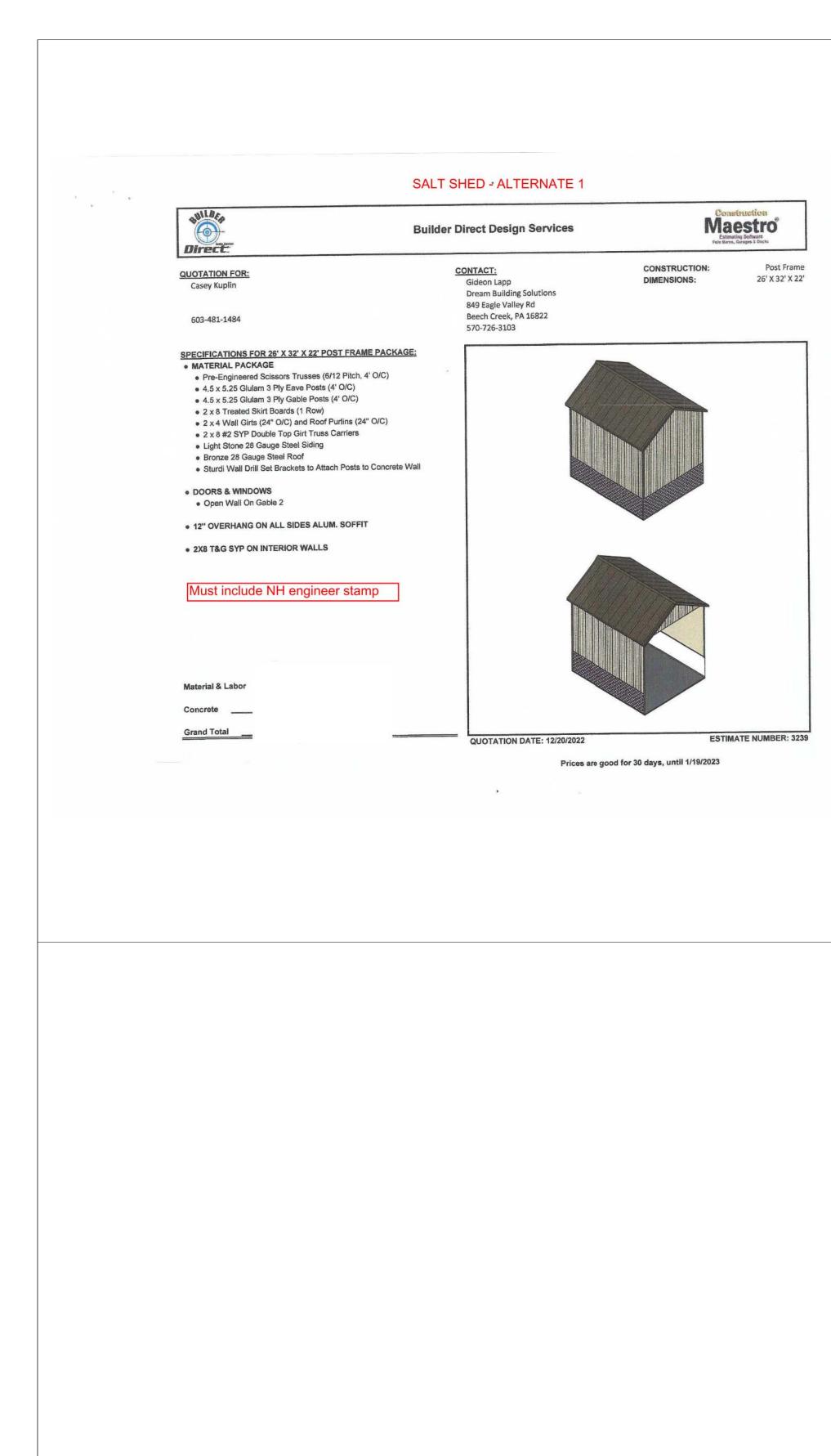
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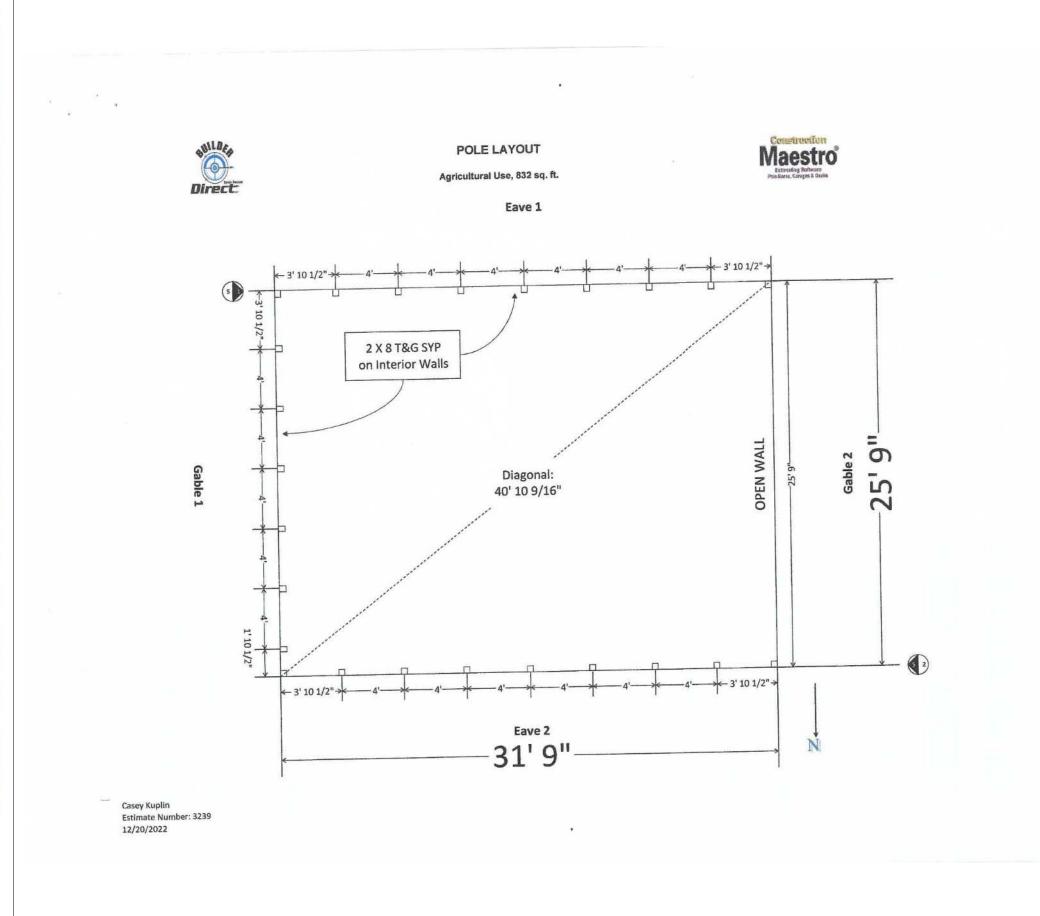
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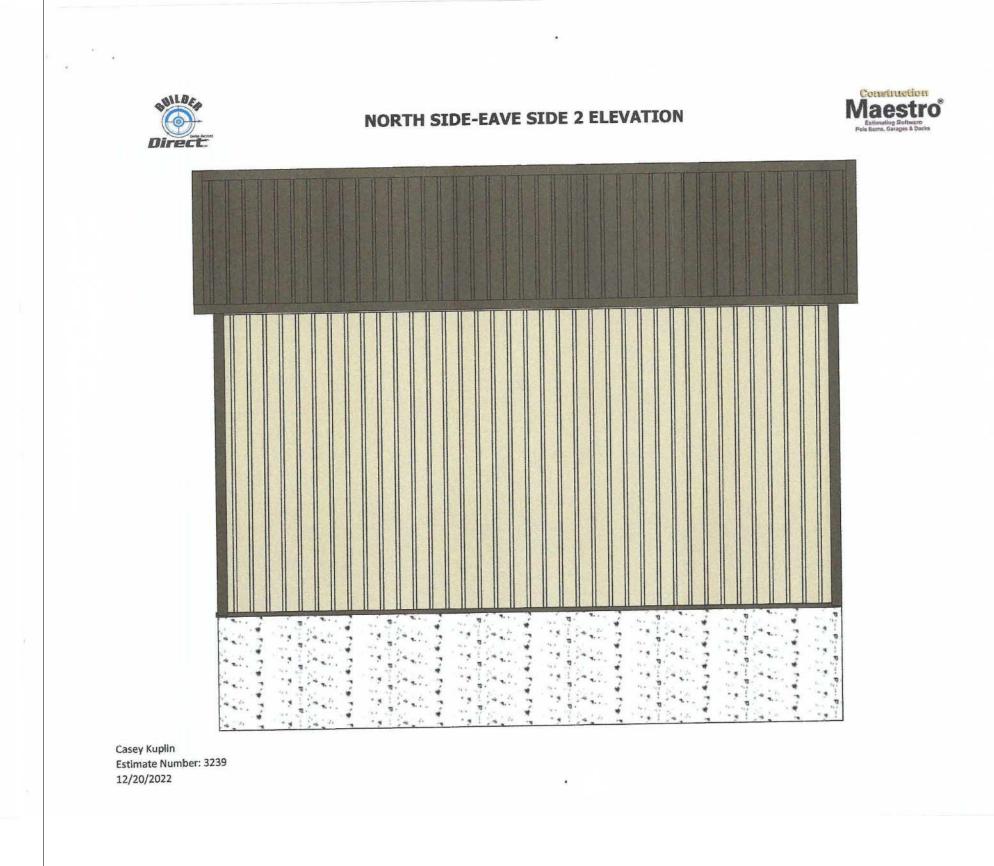


Robert Robert Estimate Number: 2734 12/18/2022













equivalent

approved

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Alternate

only

Frame

Post

TOWN OF GROTON DEPARTMENT OF PUBLIC WORKS FACILITY

GROTON, NEW HAMPSHIRE
OCTOBER 2023

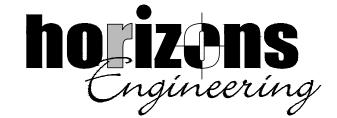
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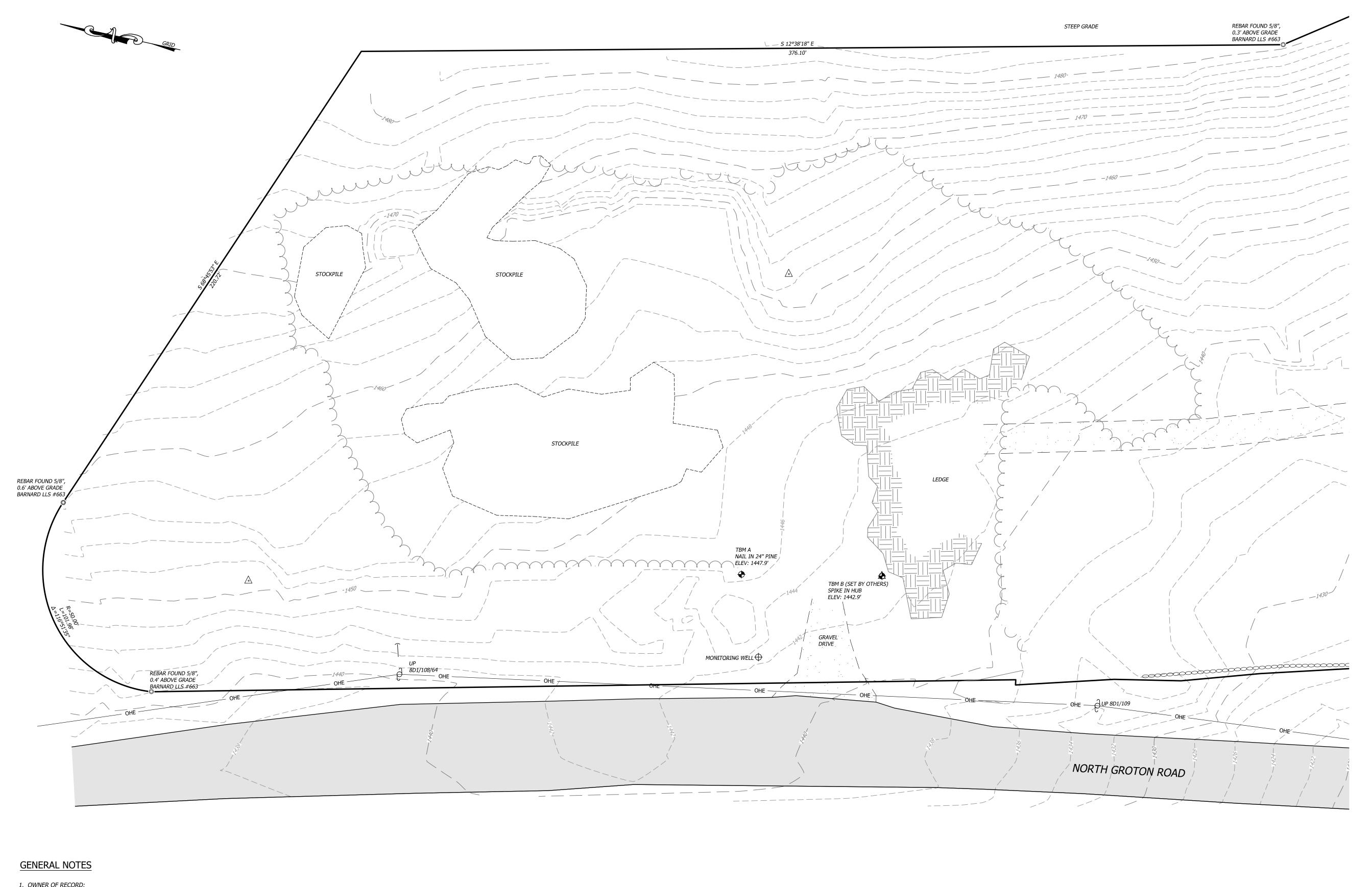
OWNER:

TOWN OF GROTON, NH 754 NORTH GROTON ROAD GROTON, NH 03241 (603) 744-9190

ENGINEER/SURVEYOR:



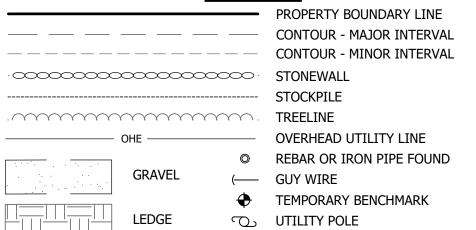
34 SCHOOL STREET LITTLETON, NH 03561 (603) 444-4111



SCALE IN FEET

- OWNER OF RECORD: TOWN OF GROTON 754 NORTH GROTON ROAD GROTON, NH 03241
- 2. REFERENCE PLAN:
- "SUBDIVISION FOR GREEN ACRE WOODLANDS, INC. AND LAND SWAP WITH THE TOWN OF GROTON NORTH GROTON ROAD GROTON, N.H." DATED 28 MAY 2014, PREPARED BY BARNARD SURVEY ASSOCIATES, INC. AND RECORDED IN GRAFTON COUNTY REGISTRY OF DEEDS PLAN NUMBER 14664.
- 3. THIS PLAN IS BASED ON A FIELD SURVEY COMPLETED ON JUNE 23, 2023 WITH CARLSON BRX7 DUAL FREQUENCY SURVEY GRADE GPS RECIEVERS AND A LEICA 1200-SERIES ROBOTIC TOTAL STATION.
- 4. THE BASIS OF BEARING IS GRID NORTH. THE HORIZONTAL DATUM IS BASED ON THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD83 (2011). THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 5. THIS IS NOT A BOUNDARY SURVEY. THE BOUNDARY LINES SHOWN HEREON WERE COMPILED FROM THE REFERENCE PLAN BASED ON MONUMENTS FOUND. NOT ALL LOT CORNERS WERE LOCATED DURING THE FIELD SURVEY. NO RESEARCH WAS CONDUCTED TO VERIFY TITLE OR ACCURACY OF THE REFERENCE PLAN.

LEGEND



→ MONITORING WELL

DATE OF PRINT
NOVEMBER 30 2023
HORIZONS ENGINEERING

FOR REVIEW NOT FOR CONSTRUCTION

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GROTON, NEW HAMPSHIRE **EXISTING CONDITIONS PLAN** REVISION DESCRIPTION OCT. 2023 CHECK'D BY: ARCHIVE #

NV/WD

SHEET 2 OF 5

Civil and Structural Engineering
Land Surveying and Environmental Consulting

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TOWN OF GROTON

DEPARTMENT OF PUBLIC WORKS

FACILITY

SHEET 3 OF 5

GRADING AND SHAPING

A. SLOPES SHALL NOT BE STEEPER THAN 2:1: 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

SEEDBED PREPARATION

A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE AMENDED WITH ORGANIC MATTER AND TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME THOROUGHLY INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER

ESTABLISHING VEGETATION

A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:

-AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ. FT. -NITROGEN (N), 50 LBS., PER ACRE OR 1.1 LBS. PER 1,000 SQ. FT. -PHOSPHATE (P₂O₅), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.

-POTASH (K₂0), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.

(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF

B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.

C. SEEDING GUIDE:	CEEDING		SOIL TYPE		
USE	SEEDING MIXTURE (SEE 3D)	DROUGHTY	WELL DRAINED	MOD. WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C	FAIR POOR FAIR	GOOD GOOD EXCELLENT	GOOD FAIR EXCELLENT	FAIR FAIR POOR
WATERWAYS, EMERGENCY SPILL- WAYS, AND OTHER CHANNELS WITH FLOWING WATER	А	GOOD	GOOD	GOOD	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	A B	GOOD GOOD	GOOD GOOD	GOOD FAIR	FAIR POOR

D. SEEDING RATES:

_	. 02	MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
	Α	TALL RESCUE	20	0.45
		CREEPING RED FESCUE	20	0. 4 5
		REDTOP	2	0.05
		TOTAL:	42	0.95
	В	TALL FESCUE	15	0.35
		CREEPING RED FESCUE	10	0.25
		CROWN VETCH OR	15 OR	0.35 OR
		FLATPEA	30	0.75
		TOTAL:	40 OR 55	0.95 OR 1.35
	C	TALL FESCUE	20	0.45
		FLATPEA	30	0.75
		TOTAL:	50	1.20

E. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO SEPTEMBER 15. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.

SPECIES	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.	REMARKS
WINTER RYE	112	2.5	BEST FOR FALL SEEDING. SEED FROM AUGUST TO SEPTEMBER 5TH FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	80	2.0	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15TH FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40	1.0	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE NOT IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. COVER SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30	0.7	GOOD COVER WHICH IS LONGER LASTING THAN ANNUAL RYEGRASS. SEED BETWEEN APRIL 1ST AND JUNE 1ST AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. MULCHING WILL ALLOW SEEDING THROUGHOUT THE GROWING SEASON. SEED TO A DEPTH OF APPROXIMATELY 0.5 INCH.

A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.

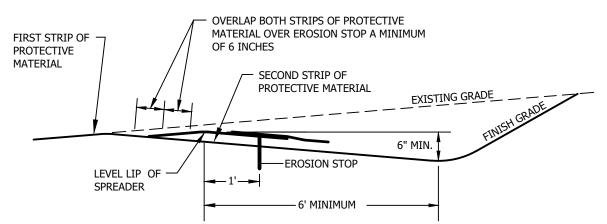
B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE

MAINTENANCE TO ESTABLISH A STAND

A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED

B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ON SITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.

C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.



LEVEL SPREADER DETAIL

NO SCALE SOURCE: ROCKINGHAM COUNTY CONSERVATION SERVICE

LEVEL LIP SPREADER INSTALLATION

1. CONSTRUCT THE LEVEL SPREADER LIP ON A ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.

2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON

- 3. AN EROSION STOP SHALL BE PLACED VERTICALLY A MINIMUM OF SIX INCHES DEEP IN A SLIT TRENCH ONE FOOT BACK OF THE LEVEL LIP AND PARALLEL TO THE LIP. THE EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE LEVEL LIP.
- 4. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELSIOR MATTING ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES.
- 5. THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A 1 PERCENT GRADE FOR AT LEAST 50 FEET BEFORE ENTERING INTO THE
- 6. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE

-SEDIMENT FENCE

SEDIMENT FENCE POCKET

BLANKETS SHOULD BE INSTALLED

VERTICALLY DOWNSLOPE.

ISOMETRIC VIEW

SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS

3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.

DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.

4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN

- 7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.
- 8. PROTECTIVE MATERIAL AND EROSION STOP SHALL BE NORTH AMERICAN GREEN C125 EROSION CONTROL BLANKET OR APPROVED EQUAL.

EROSION CONTROL GENERAL NOTES

A. KEEP SITE MODIFICATION TO A MINIMUM

 CONSIDER FITTING THE BUILDINGS AND STREETS TO THE NATURAL TOPOGRAPHY THIS REDUCES THE NEED FOR CUTS AND FILLS. AVOID EXTENSIVE GRADING THAT WOULD ALTER DRAINAGE PATTERNS OR CREATE VERY STEEP SLOPES.

- 2. EXPOSE AREAS OF BARE SOIL TO EROSIVE ELEMENTS FOR THE SHORTEST TIME POSSIBLE.
- 3. SAVE AND PROTECT DESIRABLE EXISTING VEGETATION WHERE POSSIBLE. ERECT BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION EQUIPMENT.
- 4. LIMIT THE GRADES OF SLOPES SO VEGETATION CAN BE EASILY ESTABLISHED AND MAINTAINED.
- 5. AVOID SUBSTANTIAL INCREASE IN RUNOFF LEAVING THE SITE.

FROM EROSION PRONE AREAS TO POINTS OF SAFE DISPOSAL.

B. MINIMIZE POLLUTION OF WATER DURING CONSTRUCTION ACTIVITIES 1. STOCKPILE TOPSOIL REMOVED FROM CONSTRUCTION AREA AND SPREAD OVER ANY DISTURBED AREAS PRIOR TO REVEGETATION. TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION.

- 2. PROTECT BARE SOIL AREAS EXPOSED BY GRADING ACTIVITIES WITH TEMPORARY VEGETATION OR MULCHES.
- 3. USE SEDIMENT BASINS TO TRAP DEBRIS AND SEDIMENT WHICH WILL PREVENT THESE MATERIALS FROM MOVING OFF SITE.
- 4. USE DIVERSIONS TO DIRECT WATER AROUND THE CONSTRUCTION AREA AND AWAY
- 5. USE TEMPORARY CULVERTS OR BRIDGES WHEN CROSSING STREAMS WITH EQUIPMENT.
- 6. PLACE CONSTRUCTION FACILITIES, MATERIALS, AND EQUIPMENT STORAGE AND MAINTENANCE AREAS AWAY FROM DRAINAGE WAYS.

C. PROTECT AREA AFTER CONSTRUCTION.

- ESTABLISH GRASS OR OTHER SUITABLE VEGETATION ON ALL DISTURBED AREAS. SELECT SPECIES ADAPTED TO THE SITE CONDITIONS AND THE FUTURE USE OF THE AREA. FINAL GRADES SHALL BE SEEDED WITHIN 72 HOURS. STABILIZATION SHALL BE DEFINED AS 85% VEGETATIVE COVER.
- 2. MAINTAIN VEGETATED AREAS USING PROPER VEGETATIVE 'BEST MANAGEMENT PRACTICES' DURING THE CONSTRUCTION PERIOD.
- 3. MAINTAIN NEEDED STRUCTURAL 'BEST MANAGEMENT PRACTICES' AND REMOVE SEDIMENT FROM DETENTION PONDS AND SEDIMENT BASINS AS NEEDED.
- 4. DETERMINE RESPONSIBILITY FOR LONG TERM MAINTENANCE OF PERMANENT 'BEST MANAGEMENT PRACTICES'.
- 5. IF CONSTRUCTION IS ANTICIPATED DURING WINTER MONTHS, REFER TO 'COLD WEATHER SITE STABILIZATION REQUIREMENTS'.

D. INVASIVE SPECIES AND FUGITIVE DUST

1. THE PROJECT SHALL NOT CONTRIBUTE TO THE SPREAD OF INVASIVE SPECIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EVALUATE WORK AREAS FOR THE PRESENCE OF INVASIVE SPECIES, AND IF FOUND SHALL TAKE NECESSARY MEASURES TO PREVENT THEIR SPREAD IN ACCORDANCE WITH RSA 430:51-57 AND AGR 3800. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT THE INTRODUCTION OF INVASIVE SPECIES BY INSPECTING AND CLEANING ALL EQUIPMENT ARRIVING ON

2. FUGITIVE DUST SHALL BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000.

SECTION VIEW

COLD WEATHER SITE STABILIZATION

TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND

TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15

1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1 ACRE AND SHALL BE

ANY THAW OR SPRING MELT EVENT. THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE

2. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT

EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE

INCHES OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D)

EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE

INSTALLED AND ANCHORED EROSION CONTROL MATTING OR WITH A MINIMUM 4 INCH

THICKNESS OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D)

CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H), SHALL NOT OCCUR OVER SNOW OF GREATER

INSTALLATION OF EROSION CONTROL MATTING SHALL NOT OCCUR OVER SNOW OF GREATER

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH

TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN

BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED

8. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE

PROTECTED WITH A MINIMUM 3 INCH LAYER OF BASE COURSE GRAVELS MEETING THE

GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE

DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH PROPERLY

4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX, MEETING THE

6. ALL PROPOSED STABILIZATION IN ACCORDANCE WITH NOTES 2 OR 3 ABOVE, SHALL BE

COMPLETED WITHIN 1 DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT

FLOW CONDITIONS, AS DETERMINED BY THE OWNER'S ENGINEERING CONSULTANT.

CPESC SPECIALIST, IS REVIEWED AND APPROVED BY NHDES.

THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.

OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.

CONSTRUCTION, 2016, ITEM NO. 304.1 OR 304.2.

PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO

INCREASED IF A WINTER CONSTRUCTION PLAN, DEVELOPED BY A QUALIFIED ENGINEER OR A

DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY

OR STRAW MULCH PER ACRE, SECURED WITH ANCHORED NETTING OR TACKIFIER, OR 2

3. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT

DURING SPRING RUNOFF, THE FOLLOWING ADDITIONAL STABILIZATION

REQUIREMENTS

THROUGH MAY 1:

THROUGH (H).

THROUGH (H).

OVERLAPPING SECTIONS FORM CONNECTION **→** 18" MIN **→** COMPOST SOCK CONNECTION/ATTACHMENT DETAI

CONSTRUCTION SEQUENCE

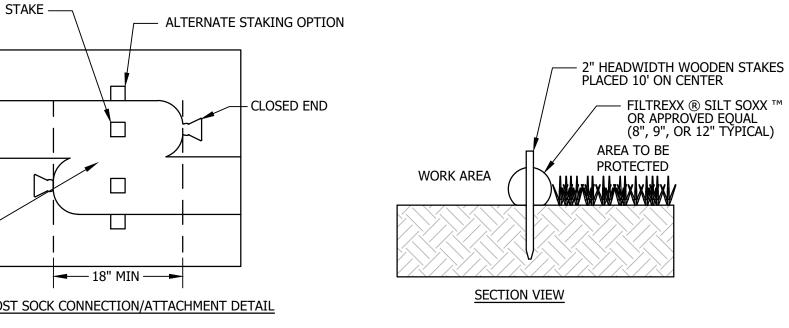
- 1. PREPARE AN EROSION CONTROL PLAN OR A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- INSTALL SEDIMENT FENCES, ROCK CHECK DAMS, AND OTHER APPROPRIATE EROSION
- CONTROL MEASURES AT LOCATIONS SHOWN ON THE PLANS AND AS NEEDED.
- GRUB SITE WITHIN GRADING LIMITS.
- STRIP AND STOCKPILE TOPSOIL AND INSTALL EROSION CONTROL MEASURES.
- 5. INSTALL/ADJUST SEDIMENT FENCE, CHECK DAMS, AND HAYBALES, AS REQUIRED.
- CONSTRUCT PERMANENT STORMWATER CONTROLS AS SOON AS PRACTICAL. DO NOT DIRECT STORMWATER TOWARD TREATMENT BASINS, PONDS, SWALES, DITCHES AND LEVEL SPREADERS UNTIL THEY HAVE BEEN STABILIZED.
- 7. PROCEED WITH WORK, LIMITING THE DURATION OF DISTURBANCE.
- 8. BEGIN SEEDING AND MULCHING IMMEDIATELY AFTER GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED WITH APPROVED METHODS WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

- 10. INSPECT ALL EROSION CONTROL MEASURES ON A DAILY BASIS AND AFTER EVERY 0.5 INCHES OF PRECIPITATION. MAINTAIN SEDIMENT FENCE, SEDIMENT TRAPS, HAY BALES, ETC., AS NECESSARY.
- 11. FINISH DRIVE AND LAY DOWN AREA SURFACE
- 12. PLACE TOPSOIL, SEED AND MULCH.
- 13. COMPLETE ALL REMAINING PERMANENT EROSION CONTROL STRUCTURES
- 14. MONITOR THE SITE AND MAINTAIN STRUCTURES AS NEEDED UNTIL FULL VEGETATION IS ESTABLISHED.

1. CONSTRUCT ROCK CHECK DAMS WHERE INDICATED ON THE PLANS OR AS NECESSARY

- 2. CONSTRUCT SPILLWAY IN CENTER OF ROCK CHECK DAM 6" BELOW TOP OF CHANNEL.
- 3. THE MAXIMUM SPACING BETWEEN THE CHECK DAMS SHOULD BE SUCH THAT THE TOP OF THE UPSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE SPILLWAY ELEVATION OF THE DOWNSTREAM CHECK DAM, THIS WILL VARY DEPENDING ON THE SLOPE OF THE CHANNEL.
- 4. ROCK CHECK DAMS SHALL CONSIST OF A WELL GRADED MIXTURE OF 2" 3" STONE.
- 5. REMOVE ROCK CHECK DAMS AND ANY ACCUMULATED SILT IN CHANNEL ONCE PERMANENT CHANNEL LININGS HAVE BEEN ESTABLISHED AND STABILIZED.



PROFILE VIEW

WOVEN WIRE FENCE

MAX. 6" MESH SPACING)

WITH FILTER CLOTH OVER

(14-1/2 GA. MIN.,

ROCK CHECK DAM DETAIL

EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN ROLLMAX S150BN OR APPROVED EQUAL UNLESS OTHERWISE SPECIFIED ON THE PLANS

STAPLES

DETAIL DIGITIZED FROM NEW HAMPSHIRE

EROSION CONTROL BLANKET

INSTALLATION DETAIL

NOT TO SCALE

STORMWATER MANUAL, VOLUME 3, NHDES 2008

_ CHANNEL TOP OF BANK

HAYBALES

CONSTRUCTION NOTES FOR SEDIMENT FENCE . WOVEN WIRE FENCE, IF REQUIRED, TO BE FASTENED SECURELY TO FENCE

POSTS WITH WIRE TIES OR STAPLES. 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.

. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SEDIMENT FENCE, OR 50% OF CAPACITY IS USED.

12" DIAMETER FILTREXX SILTSOXX OR APPROVED EOUAL SHALL BE CONSIDERED AN ACCEPTABLE EQUAL TO SEDIMENT FENCE IF INSTALLED PER MANUFACTURER'S RECOMMENDATIONS

UNDISTURBED GROUND -EMBED FILTER CLOTH : MIN. 8" INTO GROUND

SEDIMENT FENCE

2" HEADWIDTH WOODEN STAKES PLACED 10' O.C. AREA TO BE PROTECTED -FILTREXX ® SILT SOXX ™ OR APPROVED EQUAL (8", 9" OR 12" TYPICAL) **FLOW** filtrexx **WORK AREA** let nature do it.

FILTREXX INTERNATIONAL 35481 GRAFTON EASTERN RD. GRAFTON, OH 44044 TOP VIEW 420-926-2607 WWW.FILTREXX.COM ALL MATERIAL TO MEET FILTREXX ® SPECIFICATIONS.

SILT SOXX ™ FILL TO MEET APPLICATION REQUIREMENTS. 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER

FILTREXX® SILT SOXX™ DETAILS

NOT TO SCALE

- 36" MIN. FENCE POSTS,

DRIVEN MIN. 16"

INTO GROUND

SOURCE: https://www.filtrexx.com/en/resources/design-specs-cads/filtrexx-cad-files THIS DETAIL IS ADAPTED FROM "FILTREXX ® SILT SOXX ™ & SEDIMENT TRAPP ™ DETAILS" SHEET AND IS THE SOLE PROPERTY OF FILTREXX INTERNATIONAL, LLC.

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horizens Engineering
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Civil and Structural Engineering Land Surveying and Environmental Consulting

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TOWN OF GROTON

DEPARTMENT OF PUBLIC WORKS

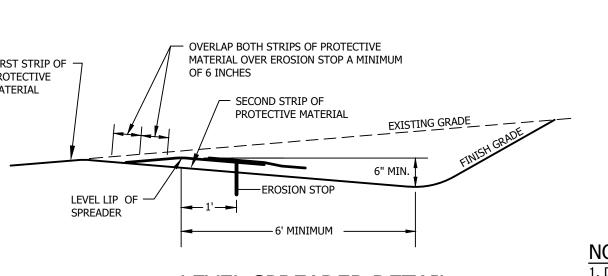
FACILITY

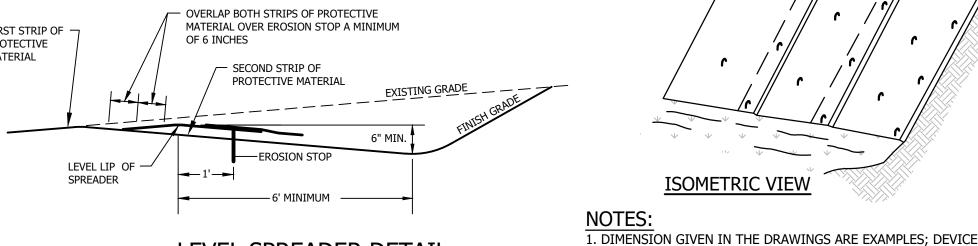
GROTON, NEW HAMPSHIRE

EROSION CONTROL DETAILS

REVISION DESCRIPTION

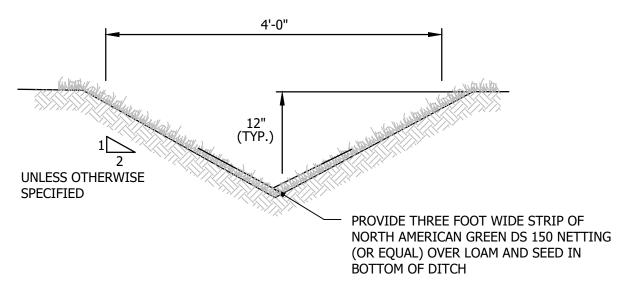
Engineering





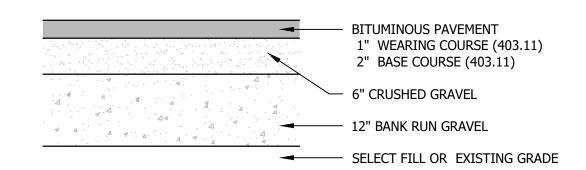
BITUMINOUS CONCRETE SIDEWALK DETAIL

NOT TO SCALE



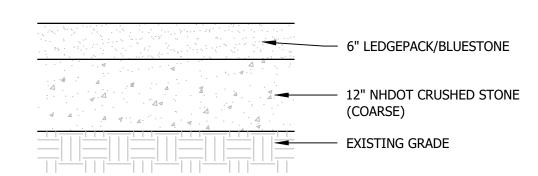
GRASS LINED DITCH DETAIL

NOT TO SCALE



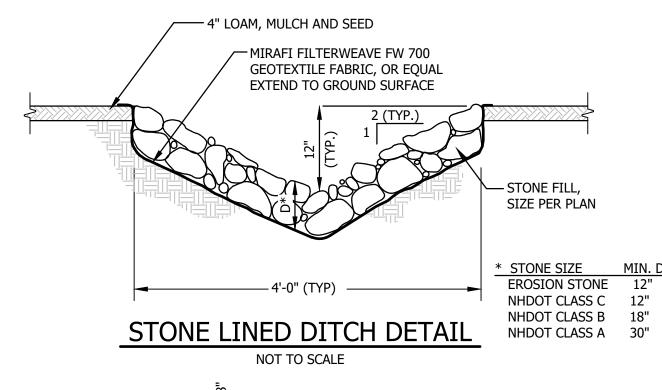
TYPICAL PAVEMENT SECTION

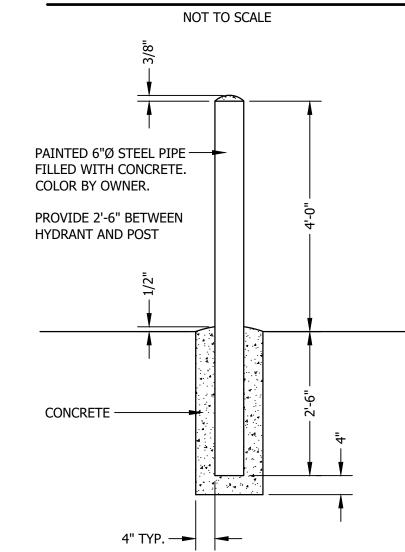
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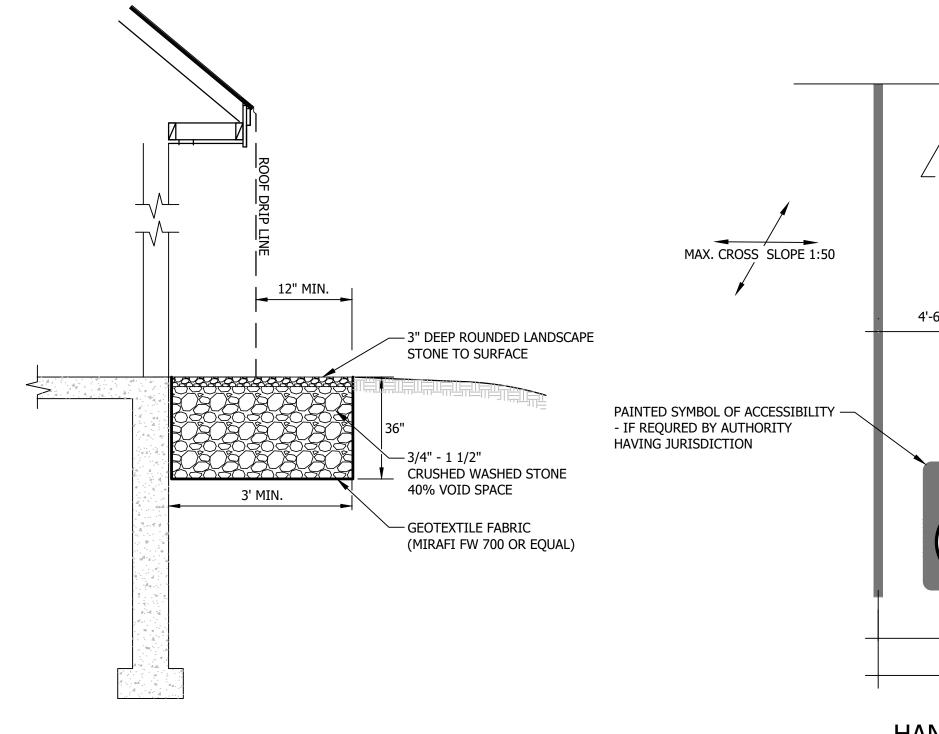
BLUESTONE DRIVE/PARKING SECTION

NOT TO SCALE



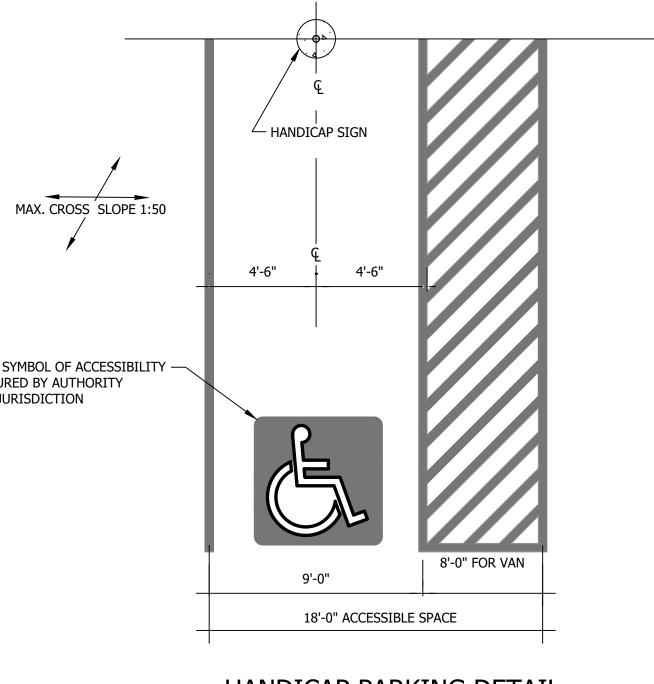


CONCRETE FILLED BOLLARD DETAIL NOT TO SCALE



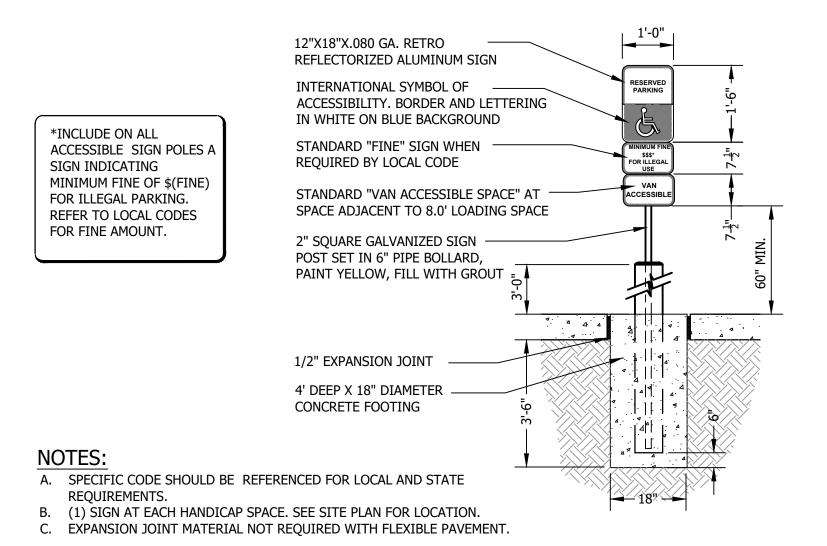
INFILTRATING STONE DRIP EDGE DETAIL

NOT TO SCALE



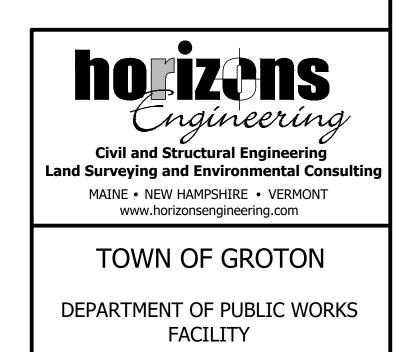
HANDICAP PARKING DETAIL

NOT TO SCALE



HANDICAP PARKING SIGN

NOT TO SCALE



NO. DATE REVISION DESCRIPTION ENG DWG

DATE: PROJECT #:
OCT. 2023 230491

GROTON, NEW HAMPSHIRE

SITE DETAILS

ENGIN'D BY: DRAWN BY WD NV/DMW

CHECK'D BY: ARCHIVE #

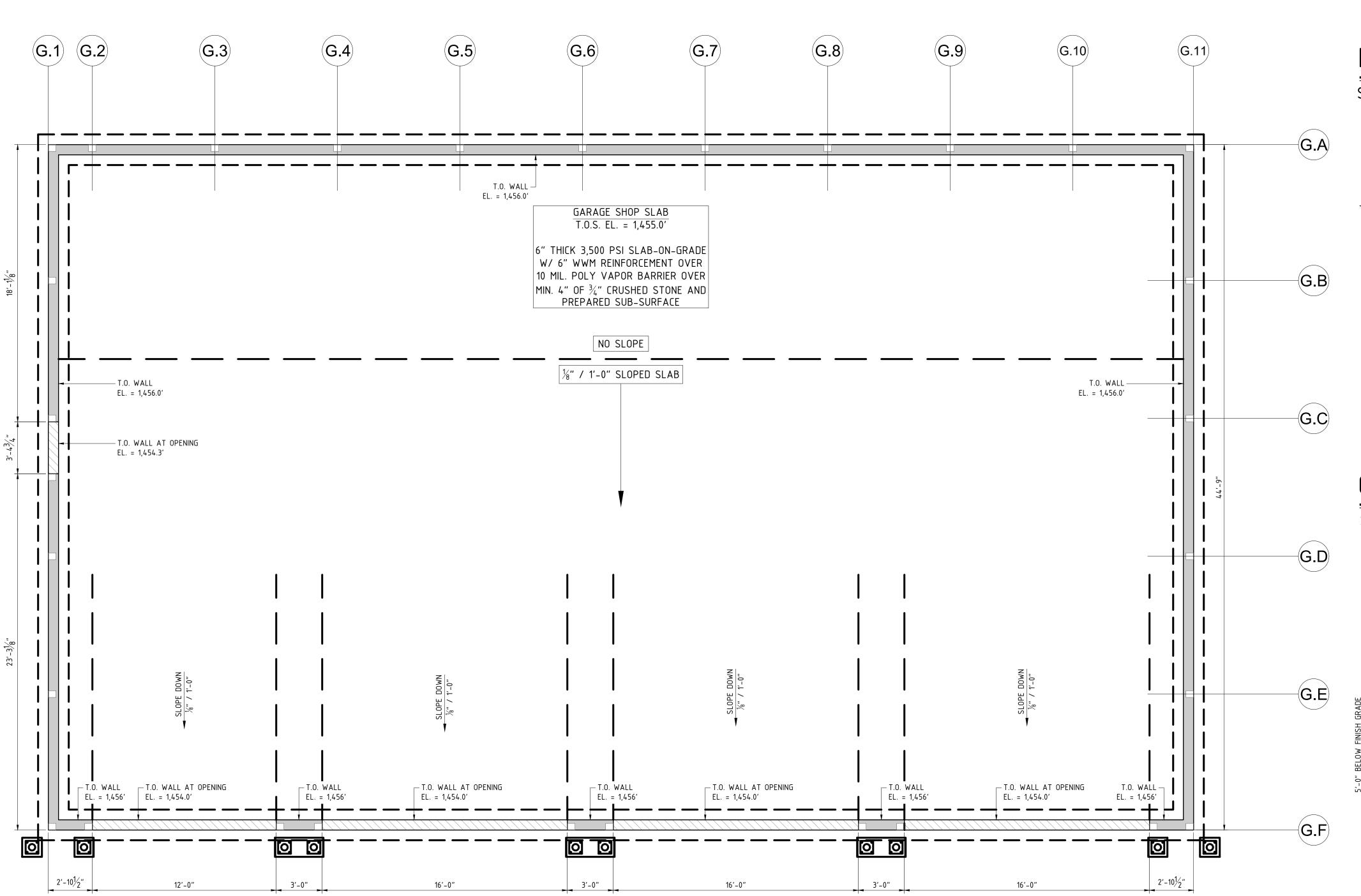
NV/WD H-__

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SHEET 5 OF 5

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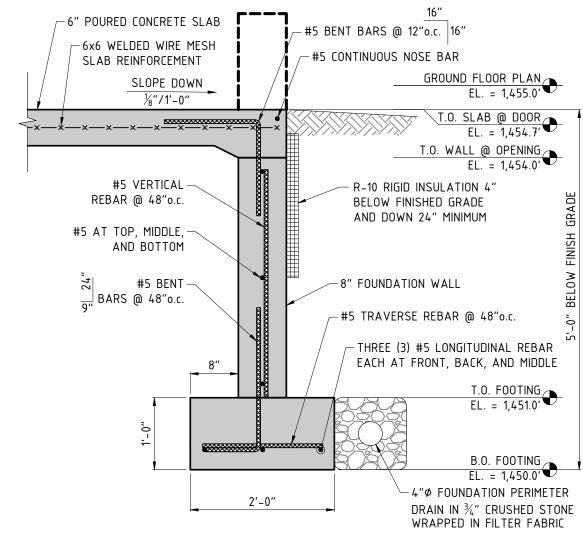
DATE OF PRINT
NOVEMBER 30 2023
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┌─6x6 WELDED WIRE MESH SLAB REINFORCEMENT T.O. WALL EL. = 1,456.0' —(3) #5 BENT BARS @ OPENING 16" 6" POURED CONCRETE SLAB-#5 CONTINUOUS NOSE BAR-T.O. WALL @ OPENING EL. = 1,454.3' ←#5 VERTICAL R-10 RIGID INSULATION 4" -BELOW FINISHED GRADE AND DOWN 24" MINIMUM REBAR @ 48"o.c. ─#5 AT TOP, MIDDLE, AND BOTTOM ∕-8" FOUNDATION WALL — #5 BENT BARS @ 48"o.c. _ #5 TRAVERSE REBAR @ 48"o.c. — THREE (3) #5 LONGITUDINAL REBAR \neg EACH AT FRONT, BACK, AND MIDDLE T.O. FOOTING EL. = 1,450.0' 2'-0" 4"Ø FOUNDATION PERIMETER-DRAIN IN $3\!\!\!/\!\!/$ " CRUSHED STONE WRAPPED IN FILTER FABRIC

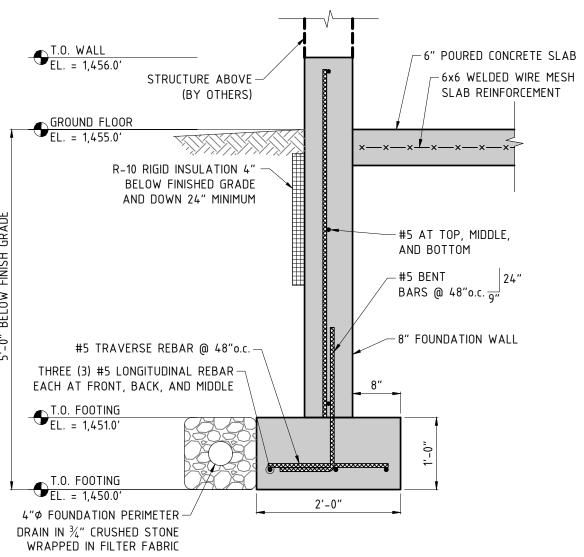
MAN DOOR OPENING DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"



GARAGE DOOR OPENING DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"



TYPICAL FOUNDATION DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"



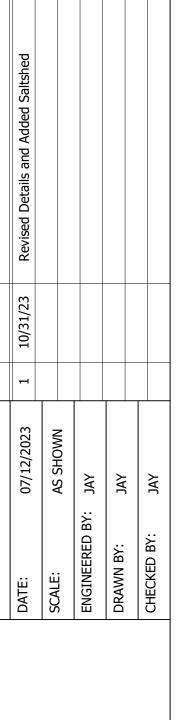
SHEET S0.0

of Groton Public Works F
754 North GRoton Road
Groton, New Hampshire
Post Frame Garage
Foundation Plans

Facility

FOUNDATION PLAN

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



TOP OF WALL EL. = 1,461.5'

T.O. SLAB @ DOOR EL. = 1,454.7'

T.O. FOOTING EL. = 1,451.0'

B.O. FOOTING EL. = 1,450.0'

4"¢ FOUNDATION PERIMETER

DRAIN IN ¾" CRUSHED STONE

WRAPPED IN FILTER FABRIC

T.O. WALL @ OPENING EL. = 1,454.0'

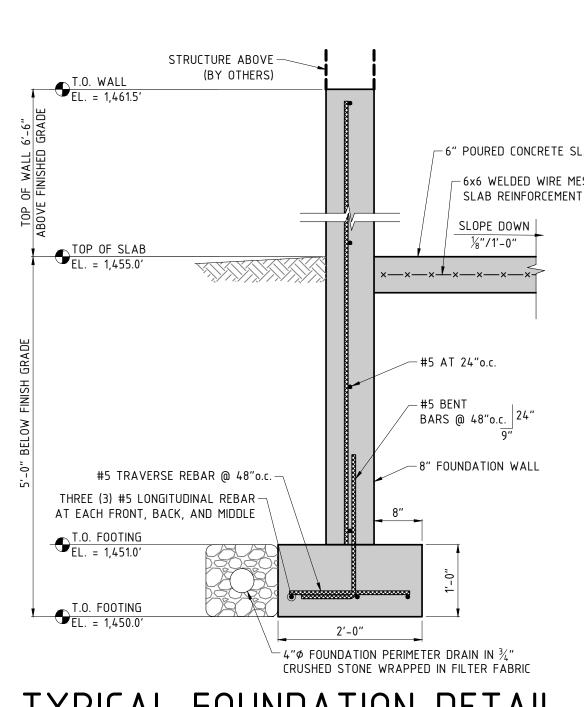




of Groton Public Works F
754 North GRoton Road
Groton, New Hampshire
Post Frame Shed
Foundation Plans

_6" POURED CONCRETE SLAB _6" POURED CONCRETE SLAB -#5 BENT BARS @ 12"o.c. 16" 6x6 WELDED WIRE MESH SLAB REINFORCEMENT 6x6 WELDED WIRE MESH SLAB REINFORCEMENT -#5 CONTINUOUS NOSE BAR SLOPE DOWN 1/8"/1'-0" <-----#5 VERTICAL — REBAR @ 48"o.c. #5 AT 24"o.c. #5 AT TOP, MIDDLE, — AND BOTTOM #5 BENT BARS @ 48"o.c. 24" #5 BENT — 8" FOUNDATION WALL BARS @ 48"o.c. ___8" FOUNDATION WALL THREE (3) #5 LONGITUDINAL REBAR EACH AT FRONT, BACK, AND MIDDLE 2'-0" 4"¢ FOUNDATION PERIMETER DRAIN IN ¾"
CRUSHED STONE WRAPPED IN FILTER FABRIC SHED FOUNDATION AT OPENING

SCALE: $\frac{3}{4}$ " = 1'-0"



TYPICAL FOUNDATION DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"

S.B +

S.D

FOUNDATION PLAN

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

SALT SHED SLAB

T.O.S. EL. = 1,455.0

6" THICK 3,500 PSI SLAB-ON-GRADE

W/ 6" WWM REINFORCEMENT OVER 10 MIL. POLY VAPOR BARRIER OVER

MIN. 4" OF 3/4" CRUSHED STONE AND

PREPARED SUB-SURFACE

1. PROJECT ADDRESS

754 North Groton Road, Groton NH

Tax map 6, Lot 1, Block 3

2. BUILDING DESCRIPTION

This facility will be used as the new Public Works Building for the Highway Garage, replacing the existing one in the flood zone. The Public Works Building/Town Garage provides services to the Town such as the maintenance of Town roads including but not limited to plowing and sanding, road construction and maintenance, as well as maintenance of other Town facilities. The Public Works Building/Town Garage also stores the Highway Department vehicles, equipment, material, tools, etc. The size of the proposed replacement building will be 74'-9" L x 44'-9 ft W x 16'-0" H. The preengineered post frame building will include the following:

- 4 bays for maintenance vehicle storage
- Office for the road agent
- Staff breakroom
- Accessible restroom with showe

 Mechanical room In addition, the project includes a post-frame salt shed with membrane roofs: one 32' L x 26' W x 14' H for the storage of salt. Sand will be stored

PART II: OVERALL BUILDING CODE REVIEW

1. APPLICABLE CODES

The Town of Groton Zoning Ordinance, 2022 Edition

ICCA117.1 and FHA/UFAS as applicable

The State of New Hampshire Adopted Building and Fire Code, which amends the following:

 International Building Code 2018 (Sixth Printing) International Plumbing Code 2018 (Fourth Printing) International Mechanical Code 2018 (Fifth Printing) 2018 (Seventh Printing) International Energy Conservation Code National Electric Code (NFPA 70)

 Life Safety Code (NFPA 1) Saf-FMO 300 2018 Edition • Life Safety Code (NFPA 101) Saf-FMO 300 2018 Edition

1. ZONING REQUIREMENTS

Allowable Uses: Residential and Forestry/Agricultural – Storage Structure, includes one (1) garage...on a vacant lot. Per Article 8, a variance will likely be required for the salt shed. If a sand shed is desired in the future, the variance could include provisions for its consideration as well.

2009 Edition

Area and Dimensions:

(all measurements in feet and inches unless otherwise stated) Minimum Setbacks in ft: <u>District Area sf Frontage ft Front Side Rear Height</u> R & F/A 2 acres 150 N/A N/A N/A N/A Maximum building footprint: no limits, "reasonable size relative to the size of the lot"

1. USE AND OCCUPANCY CLASSIFICATION

Maximum Lot Coverage: no limits

311.2 Moderate-Hazard Storage, Group S-1

Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials listed in Table 307.1(1) (see Section 406.8) See footnote P. The following shall not be included in determining the maximum allowable quantities: 1. Liquid or gaseous fuel in fuel tanks on vehicles.

The occupancy classification qualifies as a moderate storage hazard since the allowable quantities of hazardous materials are not exceeded. All hazardous fuels will be stored in fuel tanks on vehicles. The building will not serve as a repair garage, it will be used for storage of motor vehicles, so Section 406.8 does not apply, section 406.2 does apply, see below.

304.1 Business Group B

4. SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

406.1 General. All motor-vehicle-related occupancies shall comply with Section 406.2.

406.2.1 Automatic garage door openers and vehicular

gates. Automatic garage door openers shall be listed and labeled in accordance with UL 325

406.2.4 Floor surfaces. Concrete sloped to the entry doors.

406.2.8 Mixed occupancies and uses. Mixed uses shall be allowed in the same building as repair garages in accordance with Section 508.1.

406.2.9.1 Elevation of ignition sources. The source of ignition is not less than 18 inches above the floor surface on which the equipment or appliance

5. GENERAL BUILDING HEIGHTS AND AREAS

501.2 Address identification. New and existing buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be a minimum of 4 inches high with a minimum stroke width of 1/2 inch. Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or other approved sign or means shall be used to identify the structure. Address identification shall be maintained.

503.1.2 Buildings on same lot. Two or more buildings on the same lot shall be regulated as separate buildings or shall be considered as portions of one building where the building height, number of stories of each building and the aggregate building area of the buildings are within the limitations specified in Sections 504 and 506. The provisions of this code applicable to the aggregate building shall be applicable to each building.

The buildings on the lot will be considered as one building.

504.3 Height in feet. The maximum height, in feet, of a building shall not exceed the limits specified in Table 504.3.

Table 504.3

Occupancy type 'S' and 'B', non-sprinklered, type VB is 40 feet.

504.4 Number of stories. The maximum number of stories of a building shall not exceed the limits specified in Table 504.4.

Table 504.4

506.2.1 through 506.2.4 and Section 506.3.

Occupancy type 'B', non-sprinklered, type VB, <u>2 stories</u> above grade plane. Occupancy type 'S-1', non-sprinklered, type VB, 1 story above grade plane.

506.2 Allowable area determination. The allowable area of a building shall be determined in accordance with the applicable provisions of Sections

Table 506.2, Occupancy type 'B', non-sprinklered, type VB is 9,000 sf per floor,

Occupancy type 'S-1', non-sprinklered, type VB is <u>9,000 sf per floor</u>, increases not needed since total floor areas are <9,000 sf. 508.2.3 Allowable building area. The allowable area of the building shall be based on the applicable provisions of Section 506 for the main occupancy of the building. Aggregate accessory occupancies shall not occupy more than 10 percent of the floor area of the story in which they are located and shall not

exceed the tabular values for non-sprinklered buildings in Table 506.2 for each such accessory occupancy. **508.2.4 Separation of occupancies**. No separation is required between accessory occupancies and the main occupancy.

TABLE 509 INCIDENTAL USES

No rating at the mechanical room, since it is anticipated that the mechanical room equipment will be < 400,000 Btu/Hr. output and the electrical panel meets NFPA 70 requirements to be nonseparated.

6. TYPES OF CONSTRUCTION

TABLES 601 AND 602: FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (in hours based on VB Construction Type)

Primary structural frame 0 5 < or = x < 10 (1 if VB construction) Exterior Bearing Walls Interior Bearing Walls

Type V-B, non-Sprinkled

Nonbearing walls & partitions Exterior 0 5 <or= x <10 (1 if VB construction) Nonbearing walls & partitions Interior Floor construction & secondary members 0

7. FIRE AND SMOKE PROTECTION FEATURES

Roof construction & secondary members 0

2. Horizontally at intervals not exceeding 10 feet.

718.2.2 Concealed wall spaces. Fireblocking shall be provided in concealed spaces of stud walls and partitions, including furred spaces, and parallel rows of studs or staggered studs, as follows: 1. Vertically at the ceiling and floor levels.

8. INTERIOR FINISHES

803.13 Interior finish requirements based on occupancy.

Table 803.13 Group S Non-Sprinkled (B use is the most stringent)

Interior exit stairways, interior exit ramps and exit passageways – A Corridors and enclosures for exit access stairways and ramps - B Rooms and Enclosed spaces passageways - C

804.2 Floor finish Classifications: class I or II

9. FIRE PROTECTION SYSTEMS – Sprinklers are not required,

906 Portable fire extinguishers are required in 'B' and 'S' occupancies as follows:

- 1. In areas where flammable or combustible liquids are stored, used or dispensed. 2. Coordinate with a vendor to determine number and types of extinguishers required based on the equipment and storage types within the
- facility. At a minimum, provide four (4) 2-A, 20-B extinguishers at each of the following locations
- A. In the break room
- B. In the mechanical room
- C. Near the exit door
- D. Opposite the exit door

901.6.3 Fire Alarm system: Fire alarm systems required by the provisions of Section 907.2 of this code and Sections 907.2 and 907.9 of the International Fire Code shall be monitored by an approved supervising station in accordance with Section 907.6.6 of this code.

907.2 Where required—new buildings and structures. An approved fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.23 and provide occupant notification in accordance with Section 907.5, unless other requirements are provided by another section of this code. Not fewer than one manual fire alarm box shall be provided in an approved location to initiate a fire alarm signal for fire alarm systems employing automatic fire detectors or waterflow detection

Group B: Building occupant load is less than 500 and not more than 100 people above or below the level of exit discharge - No Fire Alarm system

Group S-1: - No Fire Alarm system required

10. Means of Egress

1004.1 Design occupant load. In determining means of egress requirements, the number of occupants for whom means of egress facilities are provided shall be determined in accordance with this section.

Table 1004.5 Function of space: Accessory storage areas, Mech Equipment Room: 300 Gross

Business use, Occupant Load factor 150 SF Gross per person

Building space calculated occupancy load

2,981 sf / 300 = 10 persons 394 sf / 200 = 2 persons

1005.7.1 Doors. Doors, when fully opened, shall not reduce the required width by more than 7 inches. Doors in any position shall not reduce the required width by more than one-half.

1006.2.1 Egress based on occupant load and common path of egress travel distance. Two exits or exit access doorways from any space shall be provided where the design occupant load or the common path of egress travel distance exceeds the values listed in Table 1006.2.1. The cumulative occupant load from adjacent rooms, areas or spaces shall be determined in accordance with Section 1004.2.

Table 1006.2.1

Occupancy Max Occupant Load Max Common Path of Egress Travel 100 (without Sprinkler) 100 (without Sprinkler)

This space can have one exit, the calculated occupant load if less than 49 persons and the common path of travel distance is less than 100 feet.

1008.3 Emergency power for illumination. The power supply for means of egress illumination shall normally be provided by the premises' electrical

1008.3.3 Rooms and spaces. In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following

1.Electrical equipment rooms.

2. Fire command centers.

3. Fire pump rooms. 4. Generator rooms.

1008.3.4 Duration. The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries,

on-site generator. The installation of the emergency power system shall be in accordance with Section 2702.

1008.3.5 Illumination level under emergency power. Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 footcandle (11 lux) and a minimum at any point of 0.1 footcandle (1 lux) measured along the path of egress at floor level. Illumination levels

decline to 0.6 footcandle (6 lux) average and a minimum at any point of 0.06 footcandle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-mini-mum

illumination uniformity ratio of 40 to 1 shall not be exceeded.

1013.1 Where required. Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. The path of egress travel to exits and within exits shall be marked by readily visible exit signs to clearly indicate the direction of egress travel in cases where the exit or the path of egress travel is not immediately visible to the occupants. Intervening means of egress doors within exits shall be marked by exit signs. Exit sign placement shall be such that any point in an exit access corridor or exit passageway is within 100 feet (30 480 mm) or the listed viewing distance of the sign, whichever is less, from the nearest visible exit sign.

1. Exit signs are not required in rooms or areas that require only one exit or exit access.

Table 1017.2 Exit Access Travel Distance

Max Common Path of Egress Travel 100 (without Sprinkler) 100 (without Sprinkler)

11. Accessibility

Per Table 1106.1

Number of parking spaces provided 1-25

Required number of accessible spaces 1

1111.1 Signs. Required accessible elements shall be identified by the International Symbol of Accessibility at the following locations.

1. Accessible parking spaces required by Section 1106.1. Exception: Where the total number of parking spaces provided is four or less, identification of accessible parking spaces is not required.

12. INTERIOR ENVIRONMENT 1203.1 Equipment and systems. Interior spaces intended for human occupancy shall be provided with active or passive space heating systems

capable of maintaining an indoor temperature of not less than 68°F (20°C) at a point 3 feet (914mm) above the floor on the design heating day. 13. ENERGY EFFICIENCY

Table 5.5-6 Building Envelope Requirements for Climate Zone 6 (A, B)

-Metal clad building, wood framed-Roof: R-19 + R-19

Walls above grade: wood framed and other, R-19

Slab on Grade Floors, unheated: Not Required

Opaque Doors: Swinging U-.37 Non swinging: U-.36 C402.5.7 Vestibules. Building entrances shall be protected with an enclosed vestibule, with all doors opening into and out of the vestibule equipped with self-closing devices. Vestibules shall be designed so that in passing through the vestibule it is not necessary for the interior and exterior doors to open at the same time. The installation of one or more revolving doors in the building entrance shall not eliminate the

requirement that a vestibule be provided on any doors adjacent to revolving doors. Exceptions: Vestibules are not required for the following:

2.Doors not intended to be used by the public, such as doors to mechanical or electrical equipment rooms, or intended solely for employee

14. PLUMBING SYSTEMS Table 2902.1

Classification – Business Water closets – 1 per 25 people

Lavatories – 1 per 40 people Drinking Fountains – 1 per 100 people

TOWN OF GROTON, NH DEPARTMENT OF PUBLIC WORKS ARCHITECTURAL SPECIFICATIONS

ALL LIGHTS, FIXTURES, MECHANICAL EQUIPMENT, AND APPLIANCES ARE TO BE ENERGY STAR RATED TO THE GREATEST EXTENT FEASIBLE.

MECHANICAL:

Other – 1 service sink

GARAGE SPACE HEATERS: PROVIDE TWO MOINES HOT DAWG HD (HD125501111) OR EQUIVALENT GAS FIRED, STAINLESS STEEL, HEAT EXCHANGER UNIT HEATERS WITH PROPANE CONVERSION KITS, A LOW VOLTAGE THERMOSTAT MOUNTED NEAR THE CENTER OF THE GARAGE, STAINLESS STEEL SIDEWALL VENTING PIPE KITS. FOR BIDDING PURPOSES ASSUME 125,000 BTU PER UNIT WITH AN 80% MINIMUM EFFICIENCY RATING. PROVIDE ALL NECESSARY ACCESSORIES AND ELECTRICAL SUPPLY COMPONENTS FOR A COMPLETE OPERATIONAL SYSTEM. HEATING SYSTEM DESIGN IS BASED ON 57 BTU/HR/SF FOR A 3,400SF BUILDING IN ZONE 6 = 200,000 BTU TOTAL OUTPUT REQUIRED. CONFIRM BTU OUTPUT WITH THE SUPPLIER AND NOTIFY ARCHITECT OF OUTPUT REQUIREMENT DISCREPANCIES. ROOM BASEBOARD HEATERS: DAYTON ELECTRIC BASEBOARD HEATER MODEL 3ENA4, COMMERCIAL GRADE, 938W/1250W 68" OR EQUIVALENT. PROVIDE DAYTON THERMOSTAT 3UG32 OR EQUIVALENT AND THERMOSTAT LOCK BOX. PROVIDE ALL NECESSARY ACCESSORIES AND ELECTRICAL SUPPLY COMPONENTS FOR A COMPLETE OPERATIONAL SYSTEM. PROVIDE ONE HEATER IN THE ROAD AGENT, 101, RESTROOM 102, BREAK ROOM 103, AND MECHANICAL, 104 ROOM FOR A TOTAL OF FOUR UNITS. https://www.grainger.com/product/DAYTON-Electric-Baseboard-Heater-3ENA4

BATHROOM EXHAUST FAN: BROAN 8" THROUGH-THE-WALL VENTILATION FAN, MODEL #: 509 OR EQUIVALENT. CONNECT TO A SWITCHED 15 MINUTE TIMER INTERMATIC FF15MC OR EQUIVALENT.

REFER TO THE ENTIRE SPECIFICATION SO POWER IS INCLUDED TO ALL LIGHTS, FIXTURES, MECHANICAL/PLUMBING EQUIPMENT, AND APPLIANCES FOR A COMPLETE PROJECT. MAIN SERVICE AND PANEL: SEE ARCHITECTURAL DRAWINGS. ELECTRICAL SUBCONTRACTOR TO PROVIDE ADEQUATE SERVICE PANEL

SIZE TO ACCOMMODATE ALL ANTICIPATED LOADS. F1 PENDENT MOUNTED LED FIXTURE: SUPERIOR LIGHTING LED LINEAR HIGH-BAY, MODEL #: HBL24D370W27V50KBMD OR EQUIVALENT. SEE PLANS FOR FIXTURES WITH BATTERY BACKUP, INCLUDE DRIVERS AND ALL ACCESSORIES FOR A COMPLETE, CODE

COMPLIANT LIGHTING SYSTEM. F2 WALL MOUNTED LED FIXTURE: LNC COMPACT LED LITEPAK BY EXO OUTDOOR LIGHTING, MODEL #: LNC-9LU-4K-4-DBT-PCU OR **EQUIVALENT**

DOWNLIGHT: PRESCOLITE EDGE-LIT ROUND SWITCHABLE CCT DIRECT J-BOX MOUNT DOWNLIGHT. MODEL #: LBSES-RD 6" WITH WHITE TRIM KIT (SUITABLE FOR WET LOCATIONS) OR EQUIVALENT

EXIT SIGNS: DUAL LITE EVC SERIES LED EMERGENCY LIGHT/EXIT SIGN ILLUMINATED WITH BATTERY BACK UP, MODEL #: EVCUGWD4 OR FOUIVALENT FINISH: WHITE

EMERGENCY LIGHTS: DUAL LITE EV SERIES ARCHITECTURAL LED EMERGENCY LIGHT WITH BATTERY BACK UP, MODEL #: EV4D OR

PLUMBING FIXTURES AND ACCESSORIES:

PRESSURE TANK: VERTICAL WELL PRESSURE TANK: AMTROL WX-251 (145S10), 62 GALLON, WELL-X-TROL OR EQUIVALENT. PROVIDE A COMPLETE SYSTEM FROM THE WELL TO FIXTURES INCLUDING BUT NOT LIMITED TO FOOT VALVE, EJECTOR, WELL SEAL, DEEP WELL JET PUMP, PRESSURE SWITCH, LIGHTNING ARRESTOR. FOR THE TANK PROVIDE A RELIEF VALVE TANK CROSS/TEE, DRAIN VALVE, PRESSURE REGULATOR, GATE VALVE DISCONNECT SWITCH, CHECK VALVE, AND REGULATOR.

WATER HEATER: CONQUEST SEMI-INSTANTANEOUS GAS CONDENSING WATER HEATER, MODEL #: 25 L 100A-GCL OR EQUIVALENT. COORDINATE CAPACITY WITH THE OWNER PRIOR TO ORDERING.

DRINKING FOUNTAIN: ELKAY EZLDDLC NON-REFRIGERATED, NON-FILTERED, BI-LEVEL ADA DRINKING FOUNTAIN OR EQUIVALENT. FINISH: LIGHT-GRAY GRANITE EYE WASH STATION: GLOBAL INDUSTRIES EMERGENCY SHOWER/EYEWASH STATION, MODEL #: 708383SS OR EQUIVALENT. FINISH:

MOP SINK: MOLDED STONE INTEGRAL DRAIN MOP SERVICE BASIN, FIAT PRODUCTS MODEL #: MSBID2424 OR EQUIVALENT

JANITORS SINK FAUCET: SERVICE-SINK FAUCET, FIAT PRODUCTS 830-AA OR EQUIVALENT. FINISH: CHROME. INCLUDE 830AA Service Faucet, 832AA Hose & Hose Bracket, 889CC Mop Hanger, MSG2424 Stainless Steel Wall Guard SHOWER: AQUATIC BATH, 1363BFSD WITH FOLD DOWN SEAT OR EQUIVALENT. FINISH: WHITE SHOWER SYSTEM: MOEN THREE-FUNCTION COMMERCIAL SHOWER SSYEM, MODEL #: T8342 SERIES OR EQUIVALENT. FINISH: CHROME

KITCHEN SINK: ELKAY LUSTERSTONE CLASSIC SINGLE BOWL DROP-IN ADA SINK, MODEL #: LRAD252265, OR EQUIVALENT. FINISH: KITCHEN FAUCET: MOEN ARBOR SINGLE HANDLE HIGH ARC PULL-DOWN KITCHEN FAUCET, MODEL #: 7594 SERIES OR EQUIVALENT.

FINISH: CHROME BATHROOM SINK: KOHLER PENNINGTON BATHROOM SINK, MODEL #: K-2196-1-0 OR EQUIVALENT. FINISH: WHITE BATHROOM FAUCET: MOEN SINGLE HANDLE LAVATORY FAUCET, MODEL #: 8413F05 OR EQUIVALENT. FINISH: CHROME **TOILET:** AMERICAN STANDARD CEDET PRO RIGHT HEIGHT ELONGATED TOILET, MODEL #: 3517A.101 WITH 4188.104 TANK OR

EQUIVALENT. FINISH: WHITE TOILET SEAT: BEMIS COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT, MODEL #: 1955CT OR EQUIVALENT

STAINLESS STEEL-STAIN FINISH

18" GRAB BAR: AMERICAN SPECIALTIES, INC., 1-1/4" DIAMETER STRAIGHT GRAB BAR, MODEL #: 3701-18 OR EQUIVALENT. FINISH: STAINLESS STEEL-STAIN FINISH **36" GRAB BAR:** AMERICAN SPECIALTIES, INC. 1-1/4" DIAMETER STRAIGHT GRAB BAR, MODEL #: 3701-36 OR EQUIVALENT. FINISH:

42" GRAB BAR: AMERICAN SPECIALTIES, INC. 1-1/4" DIAMETER STRAIGHT GRAB BAR, MODEL #: 3701-42P OR EQUIVALENT. FINISH: STAINLESS STEEL-STAIN FINISH

TOILET PAPER HOLDER: BOBRICK DOUBLE ROLL TOILET TISSUE DISPENSER WITH UTILITY SHELF, MODEL #: 5-540 SURFACE MOUNTED OR EQUIVALENT. FINISH: STAINLESS SOAP DISPENSER: ASI VERTICAL LIQUID SOAP DISPENSER, MODEL #: 0347 OR EQUIVALENT, FINISH: STAINLESS STEEL, CONFIRM WITH

TOWEL BAR: BOBRICK SURFACE MOUNTED TOWEL BAR, MODEL #: B-674-X24 OR EQUIVALENT. FINISH: STAINLESS STEEL PAPER TOWEL DISPENSER: GEORGIA-PACIFIC TRANSLUCENT SMOKE PUSH PADDLE ROLL TOWEL DISPENSER, MODEL #: 54338 OR EQUIVALENT, CONFIRM WITH TOWN, CONTRACTOR INSTALLED 48" MAXIMUM TO HIGHEST OPERABLE PART. BATHROOM MIRROR: AMERICAN SPECIALTIES, INC. INTER-LOK ANGLE FRAME PLATE GLASS MIRROR, MODEL #: 0600 OR EQUIVALENT,

KITCHEN:

KITCHEN CABINETS: SMART CABINETS FLAT PANEL, FINISH: MAPLE AMERICANO OR EQUIVALENT KITCHEN AND BATHROOM COUNTERTOP: WILSONART POSTFORM STANDARD LAMINATE ANZIO MARBLE, MODEL #: 5037-38 OR **EQUIVALENT. FINISH: FINE VELVET**

FINISH: STAINLESS-STEEL

FRIDGE: GE 24" WIDE, 11.6 CUBIC FEET, ENERGY STAR RATED, ADA COMPLIANT, FREE STANDING TOP MOUNT REFRIGERATOR WITH LED LIGHTING, MODEL #: GPE12FSKSB OR EQUIVALENT. FINISH: WHITE DISHWASHER: GE TOP CONTROL 24" BUILT-IN ENERGY STAR DISHWASHER, MODEL #: GDT630PGR OR EQUIVALENT. FINISH: WHITE

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> Town of Groton **Public Works**

754 North Groton Road Groton, NH 03241

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Description

Revisions

ARCHITECTURAL SPECIFICATIONS & **CODE REVIEW**

Project No.: 2030

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TYPICAL DOOR HARDWARE SETS: DOOR SCHEDULE HW 1: OFFICE **HW 2: BATHROOM HW 3: BREAK ROOM** HW 4: MECH/ELEC SPRING HINGES SPRING HINGES SPRING HINGES SPRING HINGES Mark Room Name Type Width Height Thickness Grade | Door Finish | Frame Material | Frame Finish | HW Sets | Comments LOCKSET (OFFICE FUNCTION) LOCKSET (PASSAGE FUNCTION) LOCKSET (UTILITY FUNCTION) LOCKSET (PRIVACY FUNCTION) 101 ROAD AGENT A 3'-0" 6'-8" 0'-13/4" HEAVY DUTY PAINTED METAL PAINTED WALL STOP WALL STOP WALL STOP WALL STOP PROTECTION PLATE PROTECTION PLATE PROTECTION PLATE PROTECTION PLATE PAINTED 2 RESTROOM B | 3' - 0" | 6' - 8" | 0' - 1 3/4" | HEAVY DUTY | PAINTED METAL SILENCERS SILENCERS SILENCERS **SWEEP** A 3'-0" 6'-8" 0'-13/4" HEAVY DUTY PAINTED METAL PAINTED 3 BREAK ROOM **SWEEP** SWEEP SWEEP B 3'-0" 6'-8" 0'-13/4" HEAVY DUTY PAINTED **PAINTED** MECHANICAL METAL 4 HARDWARE SPECIFICATIONS • HINGES: SCHLAGE, GRADE 316 OR EQUIVALENT. EACH DOOR LEAF SHALL SWING FROM (3) 4-1/4" X 4-1/2" STEEL FULL MORTISE, SEE SEE

PLAIN BEARING HINGES, SATIN CHROME FINISH.

• LOCKSETS: SCHLAGE, GRADE 2 (ALX SERIES), CYLINDRICAL LOCKSET, ATHENS LEVER, 626 SATIN CHROME OR EQUIVALENT. COORDINATE KEYING HIERARCHY WITH OWNER PRIOR TO SHOP DRAWING SUBMITTAL, SUCH AS MASTER KEYS FOR MUNICIPAL

• <u>STOPS</u>: FLOOR STOP: IVES FS436-15 WITH BUMPER OR EQUIVALENT. WALL STOP: IVES WS406/407CCV WITH CONCAVE BUMPER OR EQUIVALENT. HINGE STOP: IVES 70A14 OR EQUIVALENT. ALL FINISHES TO MATCH HARDWARE SATIN CHROME. PROVIDE WALL, FLOOR WALL, OR HINGE STOPS TO PREVENT HARDWARE OR DOORS FROM DAMAGING ADJACENT SURFACES. STOP TYPE IS LISTED IN

• PROTECTION PLATES: IVES 8400 12" TALL X 2"LESS THAN DOOR WIDTH (LDW) X .05" THICK ALUMINUM 5005 FINISH OR

EQUIVALENT. SILENCERS: IVES SR64, GRAY OR EQUIVALENT

SWEEPS: PEMKO 18061CNB36 ANODIZED ALUMINUM BRUSH TYPE OR EQUIVALENT

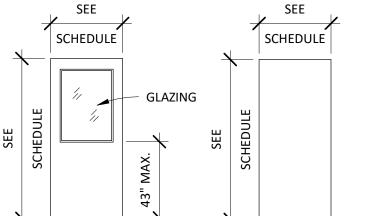
DOOR SCHEDULE NOTES:

1. GENERAL CONTRACTOR SHALL VERIFY ALL QUANTITIES, AVAILABILITY, AND ROUGH OPENING SIZES WITH THE DOOR MANUFACTURER PRIOR TO SHOP DRAWING SUBMITTALS. NOTIFY ARCHITECT/OWNER OF ANY LEAD TIME ISSUES OR DIMENSIONAL DISCREPANCIES.

- 2. INTERIOR DOOR: 20 GAUGE HOT DIPPED GALVANIZED (G60) HOLLOW METAL DOOR WITH AN EXPANDED POLYSTYRENE CORE, PAINTED. SOUND TRANSMISSION OF .32. MEETS OR EXCEEDS FEDERAL SPECIFICATION HH-1-524-C TYPES I, II, III. ONE COAT OF TINTED WHITE PRIMER, AND TWO SEMI GLOSS FINISH COATS.
- 3. <u>GLAZING</u>: GLASSLITE DOORS SHALL HAVE 16" X 30" OR PER THE PRE-GLAZED FACTORY SIZE WITH TEMPERED



1 GROUND FLOOR PLAN
1/4" = 1'-0"



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Public Works

Facility

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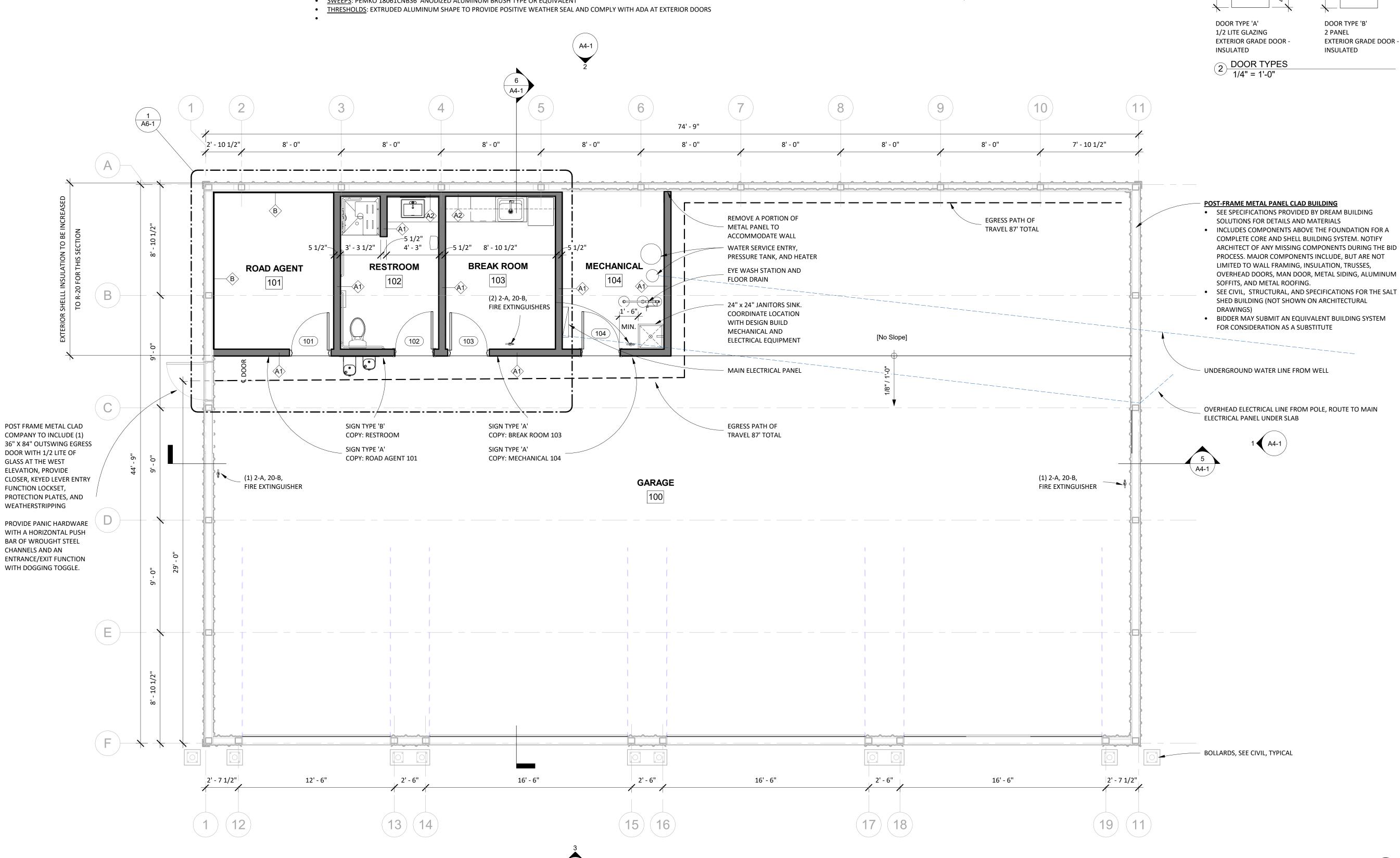
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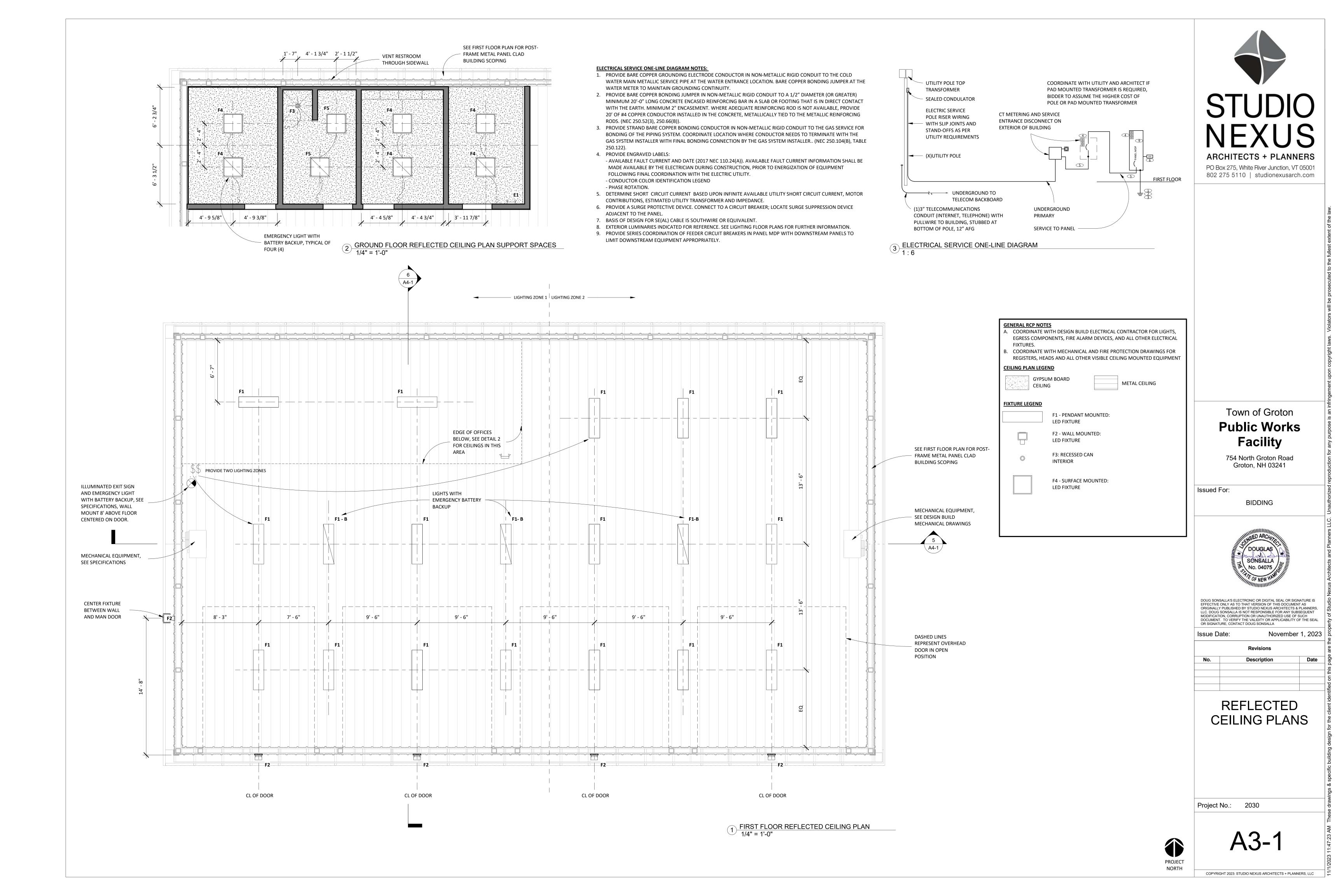
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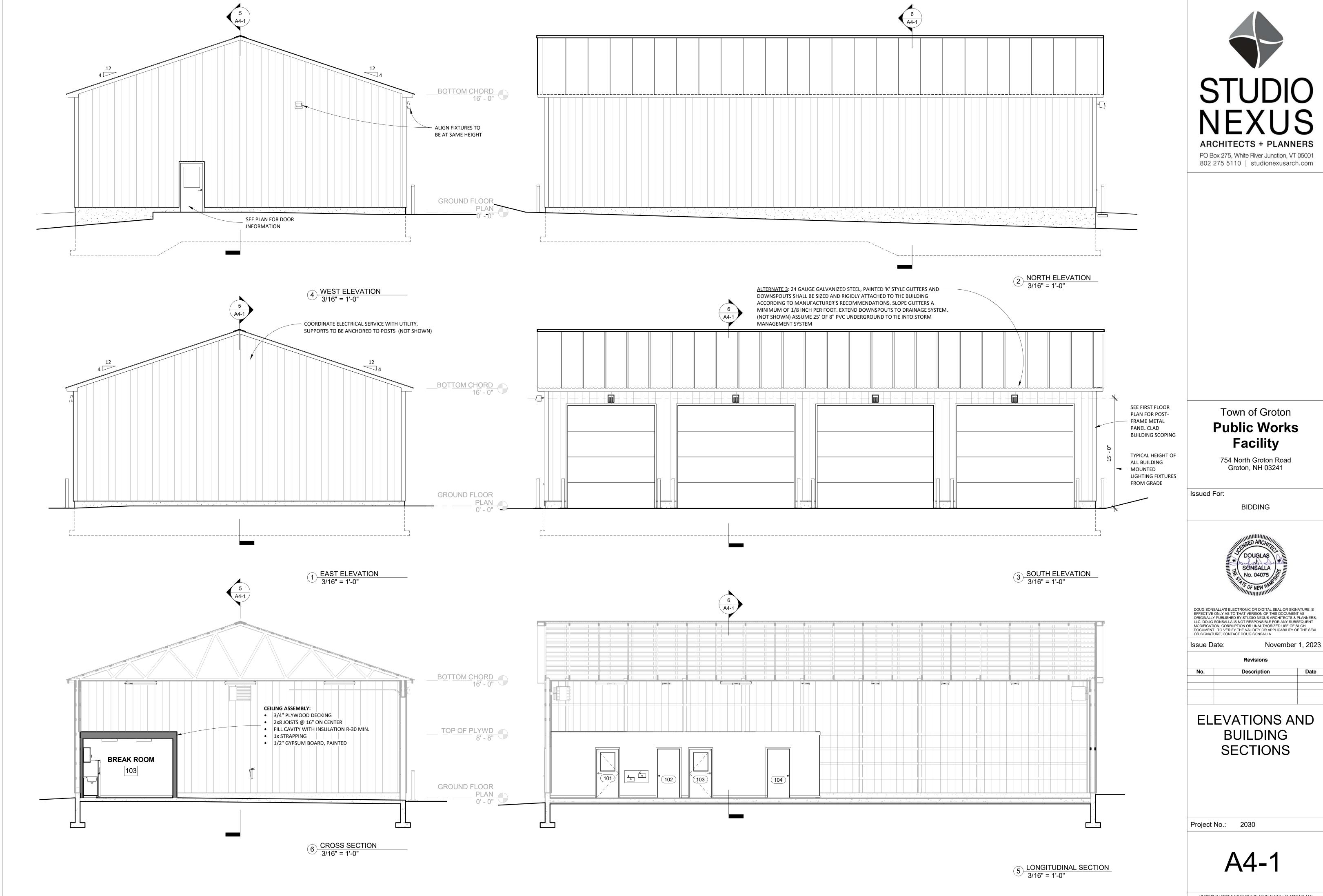
FIRST FLOOR PLAN AND DOOR SCHEDULE

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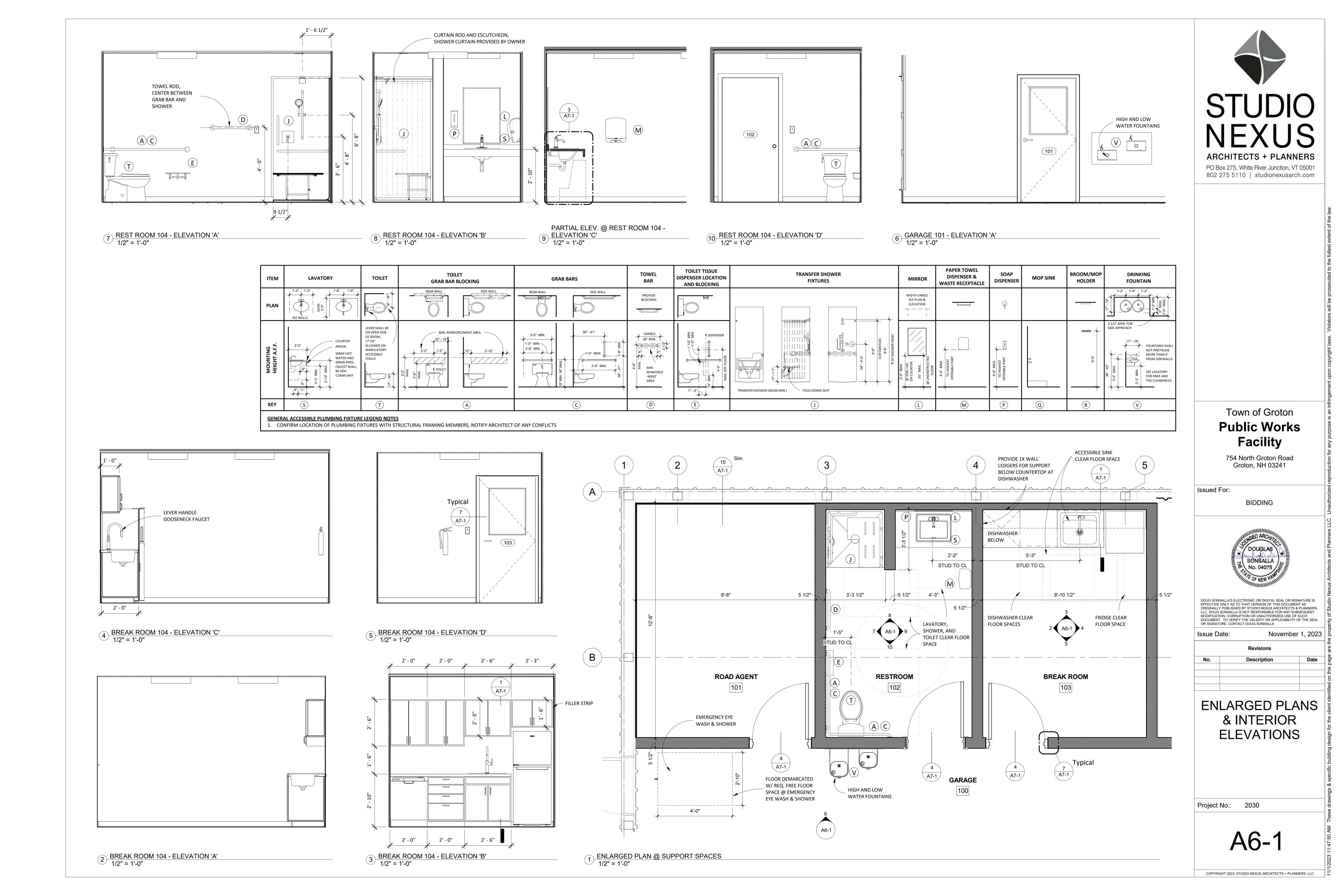


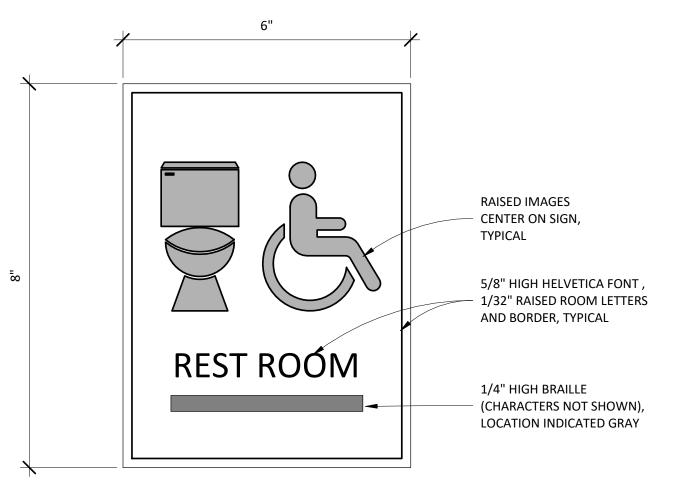
A4-1



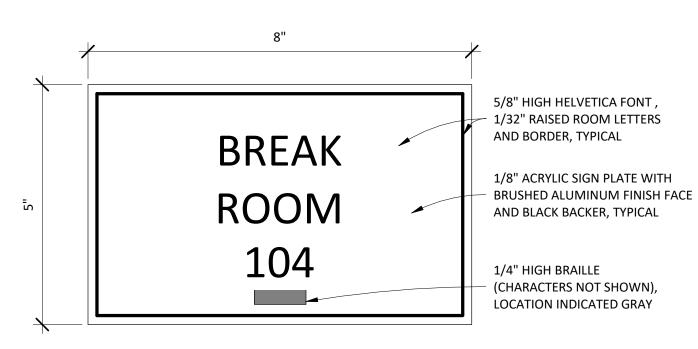


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'B' SIGN TYPE: REST ROOM

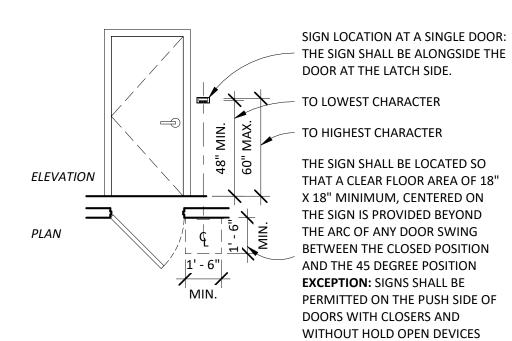


'A' SIGN TYPE: COMMON AREA / REGULATORY

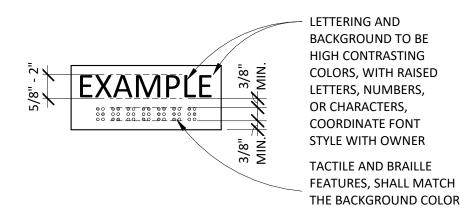
13 SIGN TYPES 6" = 1'-0"

SIGNAGE NOTES: . ALL SIGNS SHALL COMPLY WITH IBC 2018 SECTION 1111 AND ANSI 117.3 2009, AS WELL AS THE 2010 ADA

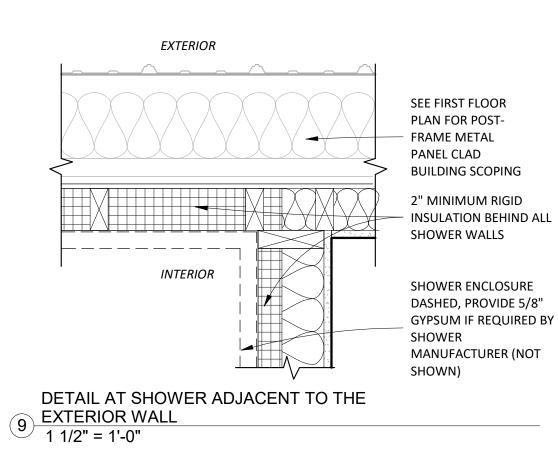
- SECTION 703 COORDINATE COLOR, FINISH, NUMBERING AND COPY PRIOR TO SUBMITTAL WITH THE ARCHITECT/OWNER
- AND AHJ/FIRE DEPARTMENT **REFER TO SHEET A2-1** FOR SIGN LOCATIONS

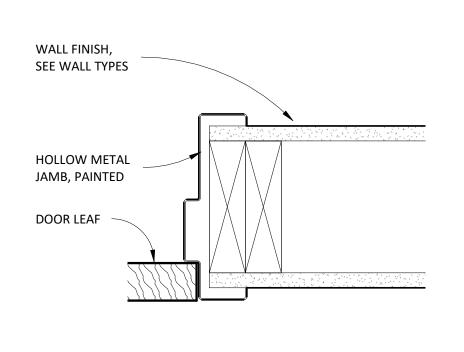


12 SIGN MOUNTING HEIGHT DETAIL 1/4" = 1'-0"

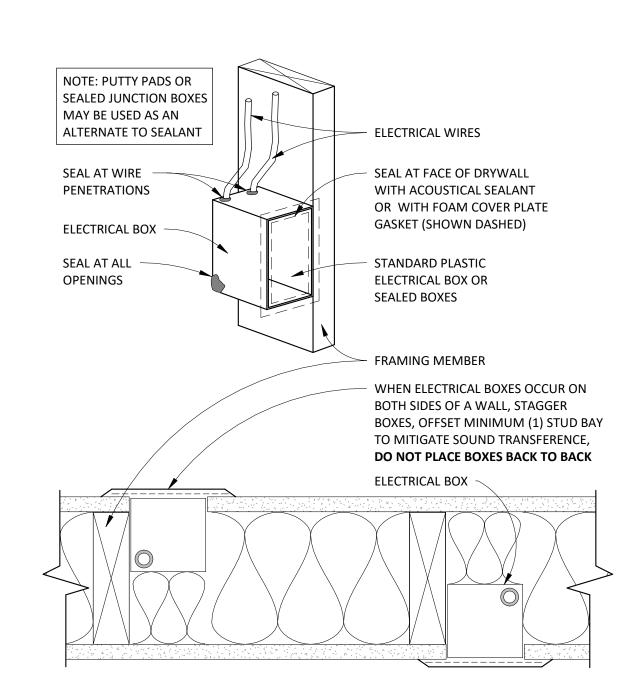


SIGN LETTERING DETAIL
3" = 1'-0"





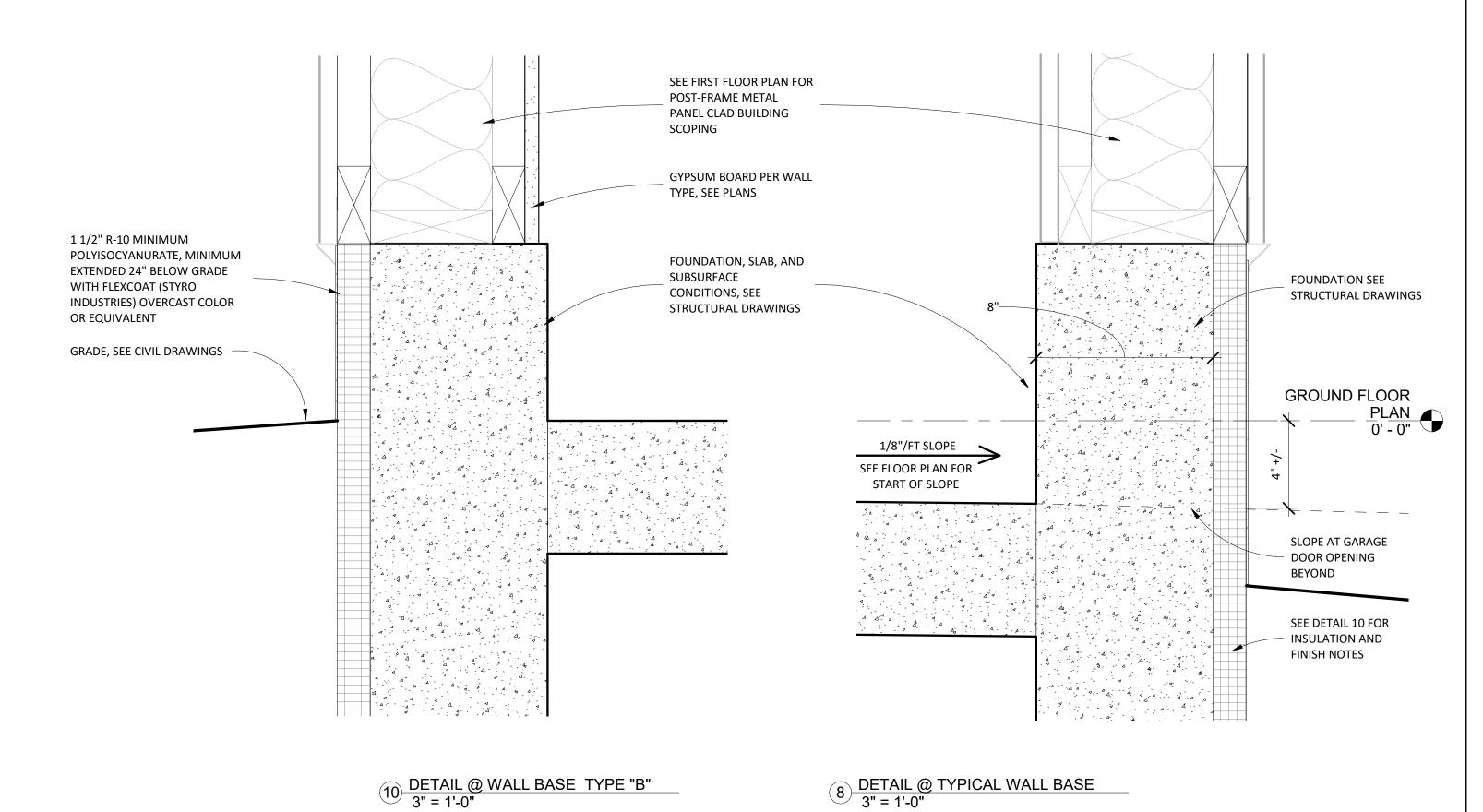
7 TYPICAL DOOR JAMB DETAIL
3" = 1'-0"

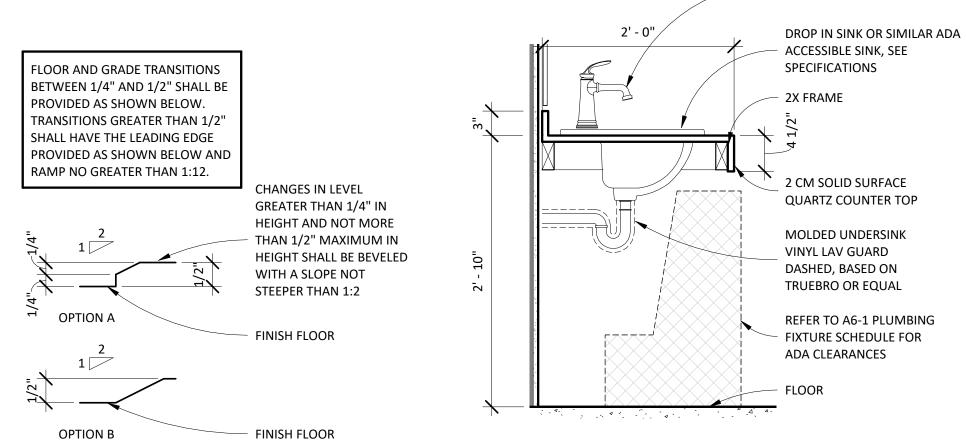


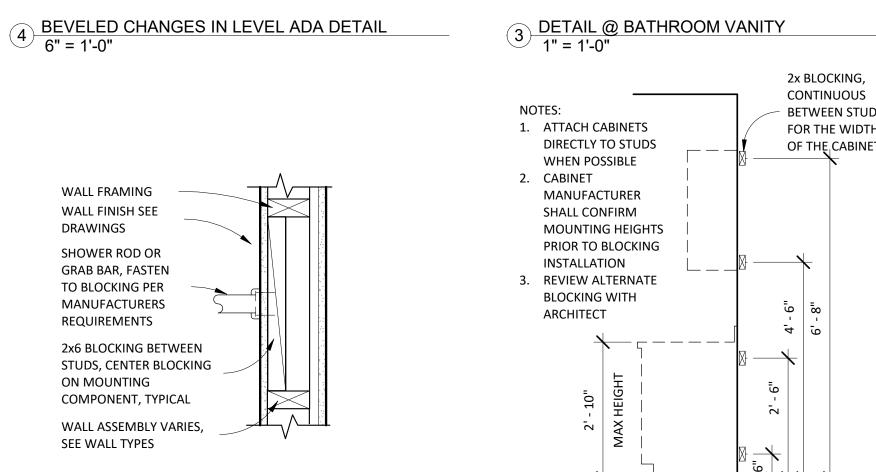
5 ELECTRICAL BOX SEALING
3" = 1'-0"

INTERIOR DETAILS

EXTERIOR DETAILS







2 DETAIL @ GRAB BAR & SHOWER ROD BLOCKING 1 1/2" = 1'-0"

BETWEEN STUDS FOR THE WIDTH OF THE CABINET

1 CABINET BLOCKING DETAIL - ACCESSIBLE 1/2" = 1'-0"

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Revisions						
No.		Description	Date			

INTERIOR AND EXTERIOR DETAILS

Project No.: 2030

A7-1

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