

TOWN OF LYME, NH
GOOSE POND ROAD RE-CONSTRUCTION PHASE II

MAY 30, 2019

SITE LOCATION:
Goose Pond Road; Lyme, New Hampshire

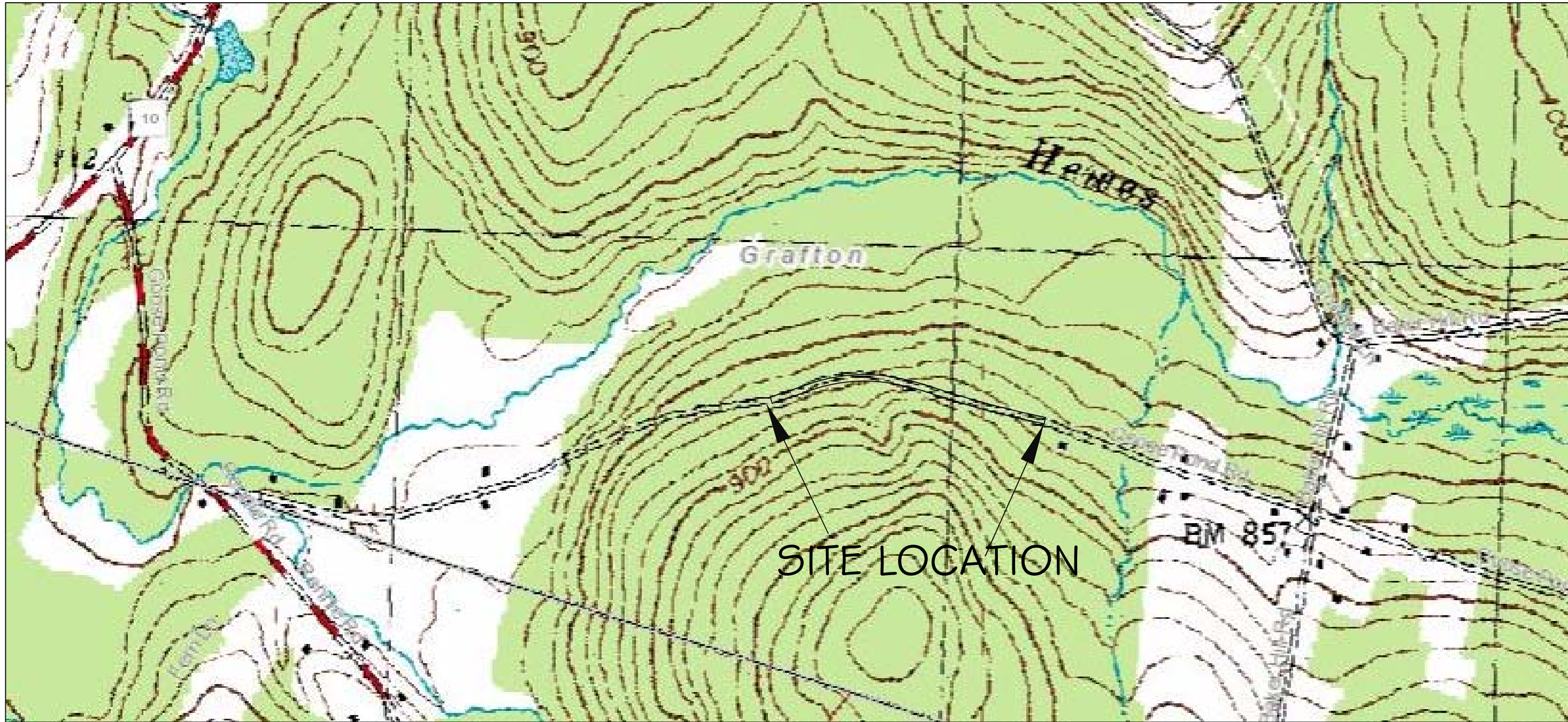


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LOCUS MAP
NOT-TO-SCALE

1	6/4/19	UPDATE ROAD ELEVATIONS	EMD
NO.	DATE	DESCRIPTION	BY

PLANSET PREPARED BY:
Right Angle Engineering, PLLC
New London, New Hampshire
Erin Darrow, P.E.

ECONOMICALLY-EFFICIENT &
ENVIRONMENTALLY SOUND
CIVIL ENGINEERING SOLUTIONS

CONSTRUCTION SEQUENCE NOTES:

1. INSTALL SEDIMENT AND EROSION CONTROL FACILITIES. ALL PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
2. ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH NEW HAMPSHRE DEPARTMENT OF ENVIRONMENTAL SERVICES BEST MANAGEMENT PRACTICES.
3. INSPECT SITE REGULARLY TO ENSURE PROPER FUNCTION OF SEDIMENT AND EROSION CONTROLS. SITE SHALL BE INSPECTED WEEKLY, AT A MINIMUM, AND ALSO AFTER/DURING SEVERE STORM EVENT(S), AFTER/DURING ANY RAINFALL THAT EXCEEDS ½ INCH IN 24 HOURS.
4. FINAL SEDIMENT AND EROSION CONTROL, AND SITE DEWATERING PLANS SHALL BE PROVIDED BY ENGINEER PRIOR TO INSTALLATION.
5. REMOVE IDENTIFIED TREES IN RIGHT-OF-WAY. THIS INCLUDES ALL TREES BETWEEN THE BARBED WIRE FENCE ON THE NORTH TO THE EDGE OF THE ROAD.
6. REMOVE UNSUITABLE MATERIAL FROM ROAD BED.
7. REMOVE EXISITING UNSUITABLE ROAD BASE MATERIAL.
8. REMOVE EXISTING CULVERTS.
9. REPLACE CULVERTS. REPLACEMENT CULVERTS SHALL BE CAPABLE OF WITHSTANDING HS-25 LOADING CONDITIONS.
5. INSTALL FILTER FABRIC.
6. INSTALL UNDERDRAINS, WHERE APPLICABLE, IN BED OF 1½" CLEAN STONE.
7. INSTALL NEW ROAD BASE MATERIALS.
8. ALL GRAVELS AND/OR STONE INSTALLED SHALL BE TESTED TO PROVE CONFORMANCE WITH NHDOT SPECIFICATION STANDARDS. BASE MATERIALS SHALL BE INSTALLED IN A MAXIMUM OF 12-INCH LIFTS AND COMPACT TO AT LEAST 95% STANDARD PROCTOR DENSITY.
8. INSTALL UNDERDRAINS.
9. RE-CONSTRUCT ROADWAY. ROAD SHALL BE RECONSTRUCTED ACCORDING TO DESIGN PLANS AND PURSUANT TO THE MOST RECENT VERSION OF THE NHDOT STANDARD SPECIFICATIONS.
10. REMOVE SEDIMENT AND EROSION CONTROL MEASURES UPON SITE STABILIZATION.
11. CONTRACTOR IS RESPONSIBLE FOR LOCATION OF UTILITIES AND AVOIDING DAMAGE DURING CONSTRUCTION.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK SHOWN ON THE DRAWINGS, UNLESS OTHERWISE NOTED. THE CONTRATOR SHALL PROVIDE AND INSTALL ALL MATERIALS REQUIRED TO COMPLETE PLANS.
2. CONTRACTOR IS RESPONSIBLE FOR REPORTING CONDITIONS IDENTIFIED ON-SITE THAT IMPACT THE PHASING, IMPLEMENTATION, FINAL CONDITIONS, AND/OR OVERALL CONSTRUCTION OF THIS PROJECT.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITES, MATERIALS STORAGE, AND EQUIPMENT STAGING AREAS WITH THE ENGINEER.
4. NHDOT ITEM 692, MOBILIZATION, SHALL INCLUDE THE DESIGN, CONSTRUCTION, AINTENANCE, REMOVAL, AND RESTORATION OF THE SITE AREA FOR CONSTRUCTION.
5. ALL WORK WITHIN TH EREIVERBANKS SHALL BE PERFORMED WITHIN THE WETLAND IMPACT AREAS SHOWN THE THE PLANS AND IN ACCORDANCE WITH THE WETLAND PERMIT.
6. ALL DISTURBED AREAS WITHN PROJECT LIMITS NOT COVERED B Y HARD SURFACES, LAND 7. SCAPING, OR STORMWATER TREATMENTSHALL BE FINISHED WITH 4" OF LOAM (NHDOT ITEM 641) AND TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS (NHDOT ITEM 646.31).
8. SITE SECURITY AND JOB SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
9. THE CONTRACTOR SHALL PROVIDE SUBMITTALS (GRADATIONS, PROCTORS, PRODUCT DATA, ETC.) AS DIRECTED BY THE ENGINEER FOR ALL MATERIALS TO BE INCORPORATED INTO THE WORK.
10. THE ENGINEER SHALL HAVE FULL ACCESS TO THE SITE WHEN THE WORK IS IN PREPARATION AND PROGRESS. THEY MAY OBSERVE THE WORK ON A PERIODIC OR FULL-TIME BASIS.
11. THE CONTRACTOR SHALL PROVIDE A DETAILED CONSTRUCTION SCHEDULE TO THE ENGINEER PRIOR TO CONSTRUCTION.
12. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR TO ALL DAMAGES CAUSED DURING CONSTRUCTION.
13. THE CONTRACTOR IS RESPONSIBLE TO RESTORATION TO ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK TO PRE-CONSTRUCTION CONDITIONS.
14. FINAL RESOLUTION TO CONFLICTS WITHIN THE DPECIFICATIONS OR ANY SUBSTITUTIONS SHALL BE DETERMINED BY THE ENGINEER.
15. THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING PROPERTY CORNER, MONUMENT, SURVEY MARKER, OR BENCHMARK WITHOUT FIRST MAKING PROVISIONS FOR ITS REPLACEMENT OR RELOCATION.
16. ALL TESTING SHALL BE ORDERED BY THE ENGINEER AND COORDINATED BY THE CONTRACTOR IN ACCORDANCE WITH NHDOT, AASHTO, AND THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL GIVE THE ENGINEER 48 HOURS ADVANCE NOTICE PRIOR TO PLACING MATERIALS REQUIRING TESTING.
17. CONCRETE AND SOIL TESTING IS OUTLINED IN THE NHDOT SPECIFICATIONS AND IS TO BE PERFORMED BY A QUALIFIED PERSON OR FIRM APPROVED BY THE ENGINEER. TESTING COSTS ARE SUBSIDIARY AND SHALL BE INCLUDE IN THE CONTRACTORS COST.
18. DETERMINATION OF MAXIMUM DENSITIES FOR SAND AND GRAVELS ARE THE RESPONSIBILITY OF THE CONTRACTOR. PROCTOR TESTS ORDERED BY THE ENGINEER SHALL BE SAMPLED AND PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY THE CONTRACTOR, OBSERVED BY THE ENGINEER, AND PAID FOR BY THE CONTRACTOR. INCLUDE ALL COSTS IN PROPOSAL.
19. ROADWAY AND BRIDGE LAYOUT ARE SUBSIDIARY AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
20. BASE PLAN INFORMATION BASED ON DATA COLLECTED BY HIGGINSON LAND SERVICES, LLC, IN APRIL 2019.
21. WORK SHALL OCCUR IN SECTIONS FROM WEST TO EAST.



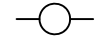

GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION PROCEDURE. THERE ARE OVERHEAD POWER TRANSMISSION LINES AND OTHER UTILITIES WITH ROADWAY CROSSING AND LINES IN THE IMMEDIATE VICINITY OF THE BRIDGE. THE CONTRACTOR IS ADVISED THAT EXTREME CAUTION WILL BE REQUIRED IN THE OPERATION OF EQUIPMENT, EXPECIALLY CRANES. CONTACT DIG-SAFE AT 1-888-DIG-SAFE.
2. ALL UTILITY INSTALLATIONS, INCLUDING THE LOCATION, SIZE, DEPTH, AND SPCIFICATION FOR CONSTRUCTION OF THE PROPOSED UTILITY SERVICES SHALL BE INSTALLED UNDER THE SUPERVISION OF AND COMPLYING WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE, ETC.)
3. DAMAGE TO ANY UTILITY BY THE CONTRACTOR SHALL BE REPORTED TO THE UTILITY COMPANY. REPAIR OF THE UTILITY SHALL BE PAID FOR BY THE CONTRACTOR.

SCHEDULE OF QUANTITIES

No.	Item Description	Units	Quantity	Unit Price	Total Cost
1	Mobilization & Demobilization	LS	1		
2	Temporary Erosion Control	LS	1		
3	Remove Existing Culverts	EA	6		
4	Common Excavation - Waste	CY	1200		
5	Ledge Removal	CY	25		
6	18" HDPE Culvert	LF	260		
7	Culvert Outlet Aprons	EA	6		
7	Precast Concrete Headwalls	EA	12		
8	Culvert Installation	EA	6		
9	Underdrains	LF	500		
10	Road Stabilization Fabric	SY	8000		
11	Erosion Stone - Scour Protection	CY	50		
12	Stone Bedding for Culvert/Wingwalls	CY	75		
13	Stone for Underdrain	CY	550		
14	Stone for Rip Rap Swales	CY	800		
15	Bank Run Gravel	CY	1500		
16	Crushed Gravel	CY	1200		
17	Ledgepack	CY	275		
18	Site Cleanup	LS	1		
19	Traffic Control	LS	1		
20	Tree Removal	LS	1		
21	Contingencies	LS	1		
			TOTAL ESTIMATED PRICE =		

LEGEND

	EXISTING EDGE OF GRAVEL
	PROPOSED EDGE OF TRAVEL WAY
	PROPOSED EDGE OF GRAVEL
	EDGE OF RIGHT-OF-WAY
	EXISTING 2' GRADE CONTOUR
	PROPOSED 2' GRADE CONTOUR
	OVERHEAD UTILITY LINE
	CULVERT
	EXISTING UTILITY POLE
	BARBED WIRE FENCE
	TREE TO BE REMOVED

CULVERT SCHEDULE

NO.	EXISTING DIAMETER & TYPE	PROPOSED DIAMETER & TYPE	INVERT IN	INVERT OUT	LENGTH	SLOPE
1	15" HDPE	18" HDPE	832.47	830.86	41'-4"	3.9%
2	15" HDPE	18" HDPE	838.22	836.88	42'-8"	3.1%
3	15" HDPE	18" HDPE	848.20	847.19	43'-7"	2.3%
4	15" HDPE	18" HDPE	863.64	861.73	42'-9.5"	4.5%
5	12" HDPE	18" HDPE	851.90'	850.20'	41'-11"	4.1%
6	18" HDPE	18" HDPE	851.05'	848.50'	40'-8"	6.3%


CULVERT NOTES:

1. ALL FUTURE CULVERTS WILL MATCH EXISTING LENGTHS AND ELEVATIONS UNLESS CHANGES APPROVED BY ENGINEER.
2. ALL FUTURE CULVERTS TO BE SMOOTH-BORE HDPE PIPE CULVERTS.

CONSTRUCTION NOTES

1. ALL FINISH GRADE SIDE SLOPES OF 2:1 OR STEEPER SHALL BE STABILIZED USING NON-WOVEN STABILIZATION MAT.
2. SUBMITTALS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER FOR PRECAST CONCRETE HEADWALLS. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGHT OF F'C = 3500 PSF WITH AIR ENTRAINMENT; REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BLACK BARS PER ASTM A-615, FY 60000 PSI; MINIMUM REINFORCING STEEL COVER OF 2"; 3/4" CHAMFER ON ALL EXPOSED EDGES; CONTRACTOR SHALL GROUT ANY LIFT HOLES AND PICKUP POINTS WITH NON-SHRINK GROUT; HEADWALL TO BE INSTALLED ON 1' MINIMUM OF 3/4" - 1 1/2" CRUSHED STONE PAD.
3. CONTRACTOR SHALL CONTACT ENGINEER FOR GUIDANCE IF UNSUITABLE MATERIAL OR WET CONDITIONS ARE ENCOUNTERED. PLACEMENT AND COMPACTION OF STONE BEDDINF FOR CULVERT AND UNDERDRAIN SHALL BE TO 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 157 AND ASTM D 2922, PRIOR TO PLACEMENT OF PIPE AND BLANKET.
4. ALL ROAD BED MATERIALS SHALL BE PLACED IN CONFORMANCE WITH NHDOT SPECIFICATION STANDARDS. MATERIALS SHALL BE PLACED IN 6" LIFTS TO REACH A MODIFIED PROCTOR DENSITY OF 95%, OR WITH METHODOLOGY APPROVED BY ENGINEER.
5. RIPRAP OUTLET PROTECTION SHALL BE PROVIDED AT ALL CULVERTS. STONE SIDE D=6'-; MIN LENGTH 4', MIN WIDTH 3.5'.
6. NHDOT STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ACCESS POINT(S) TO ROAD SITE. CONTRACTOR IS RESPONSIBLE FOR DAILY CLEANUP OF MATERIALS TRACKED OUTSIDE OF THE WORKZONE.
7. ROAD MAY BE CLOSED FOR WORK THAT OCCURS IN JULY THROUGH AUGUST 26. WORK AFTER AUGUST 26 UNTIL OCTOBER SHALL REQUIRE MAINTENACE OF TRAFFIC FLOW ACCORDING TO STANDARD IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
8. RIPRAP STONE SWALE SHALL BE INSTALLED ALONG ENTIRETY OF SOUTH SIDE OF ROAD IN PROJECT AREA.
9. FILL SHALL BE INSTALLED AS NEEDED ON STEEP BANK AREAS, AND SLOPE STABILIZED WITH NON-WOVEN EROSION MATTING.
10. ADDITIONAL TREE CLEARING BEYOND THAT IDENTIFIED ON THE PLAN MAY BE REQUIRED TO COMPLETE WORK. ALL TREES THAT ARE NOT INCLUDED ON THE PLAN SHALL REQUIRE PRIOR APPROVAL FROM THE TOWN OF LYM OT BE CUT. THE CONTRACTOR SHALL MARK ANY ADDITIONAL TREES AND NOTIFY ENGINEER BEFORE CUTTING.
11. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED DOWNGRADIENT FROM ALL IMPACTS, OR MORE TO KEEP EROSION ON-SITE. BEST MANAGEMENT PRACTICES, AS ACCEPTED BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, SHALL BE USED TO MANAGE AND MITIGATE RUNOFF. SITE SHALL BE MONITORED AT LEAST WEEKLY AND WITHIN ONE DAY OF A STORM EVENT GENERATING 1/2" OR MORE OF PRECIPITATION OVER A 24-HOUR PERIOD. CONTRACTOR SHALL MAINTAIN SITE OBSERVATION RECORDS FOR THE DURATION OF CONSTRUCTION.
12. UNDERDRAIN CLEANOUTS SHALL BE INSTALLED AT A MINIMUM OF EVERY 100 LINEAR FEET, AND DISCHARGE ADJACENT TO CULVERT OUTLETS.
13. ALL TREES AND VEGETATION ON THE SOUTH SIDE OF THE ROAD BETWEEN EDGE OF TRAVEL SURFACE AND BARBED WIRE FENCE SHALL BE REMOVED.

2			
1	6-4-19	CHANGE ROAD GRADES	EMD
NO.	DATE	DESCRIPTION	BY



ENGINEER:
Right Angle Engineering, PLLC
Erin Darrow, P.E.
152 Main Street
New London, NH 03257
(603) 526-2807 office
(603) 443-7815 mobile
(603) 523-8811 fax
Erin@RightAngle.Engineering

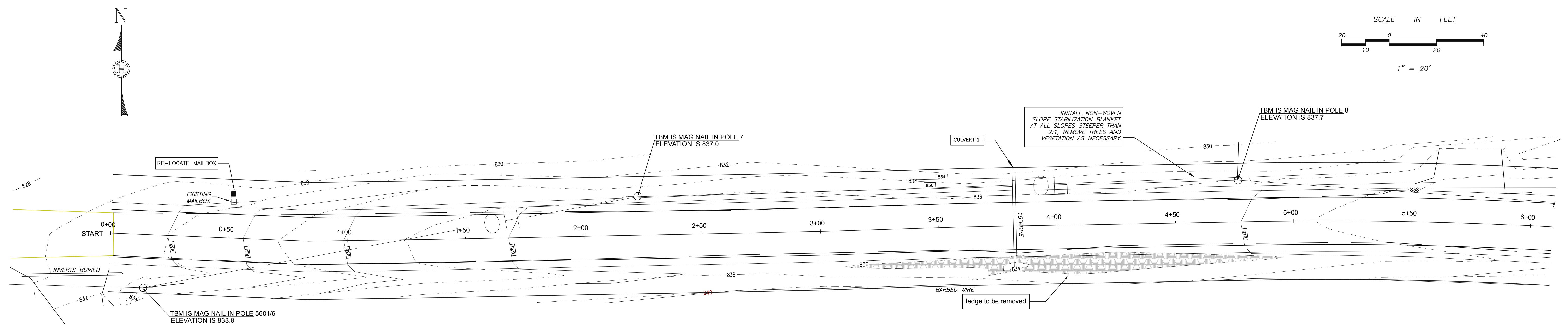
GENERAL NOTES & CONDITIONS PLAN
GOOSE POND ROAD PHASE II
ROAD IMPROVEMENTS

TOWN OF LYME, NH

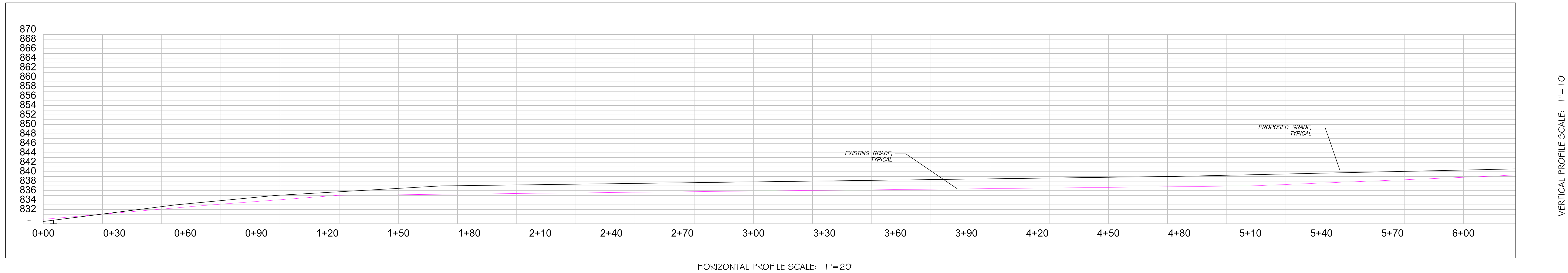
MAY 30, 2019

PREPARED FOR OWNER:


TOWN OF LYME, NH
ONE HIGH STREET/PO BOX 126
LYME, NH 03768



MATCH STATION 6+00



2			
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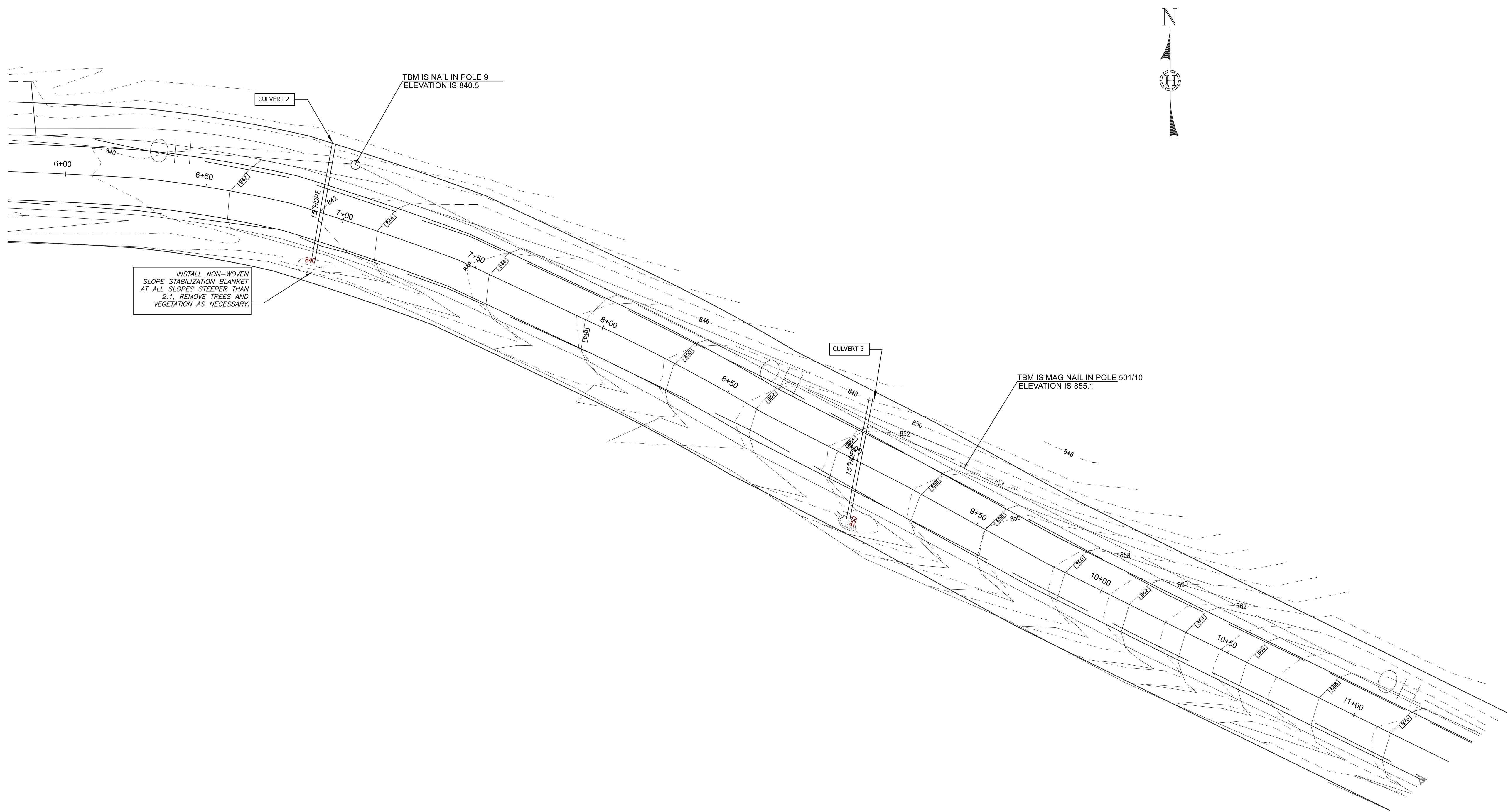
ENGINEER:
Right Angle Engineering, PLLC
Erin Darrow, P.E.
152 Main Street
New London, NH 03257
(603) 526-2807 office
(603) 443-7815 mobile
(603) 523-8811 fax
Erin@RightAngle.Engineering

SITE PLAN
GOOSE POND ROAD PHASE II
ROAD IMPROVEMENTS

TOWN OF LYME, NH
MAY 30, 2019
PREPARED FOR OWNER:

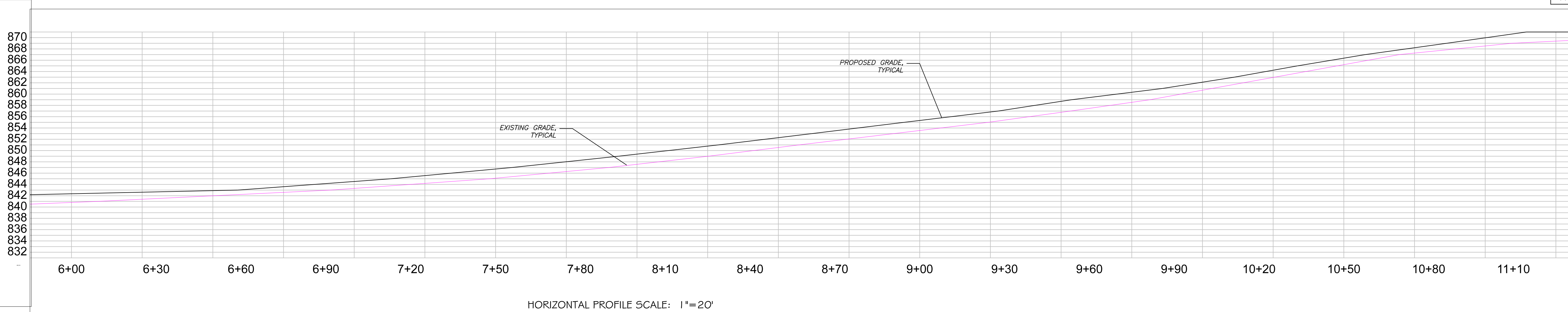
TOWN OF LYME, NH
ONE HIGH STREET/PO BOX 126
LYME, NH 03768

SHEET 3



MATCH STATION 11+00

NO.	DATE	DESCRIPTION	BY
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1	6-4-19	CHANGE ROAD GRADES	EMD



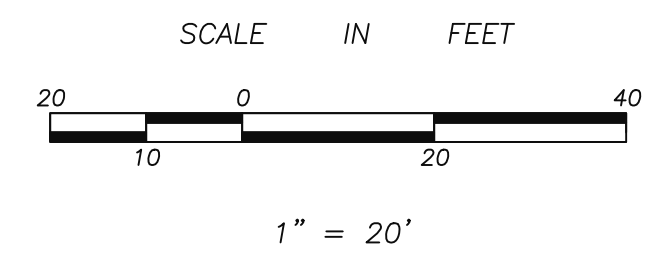
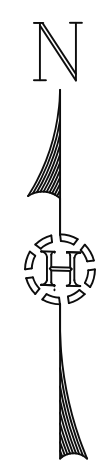
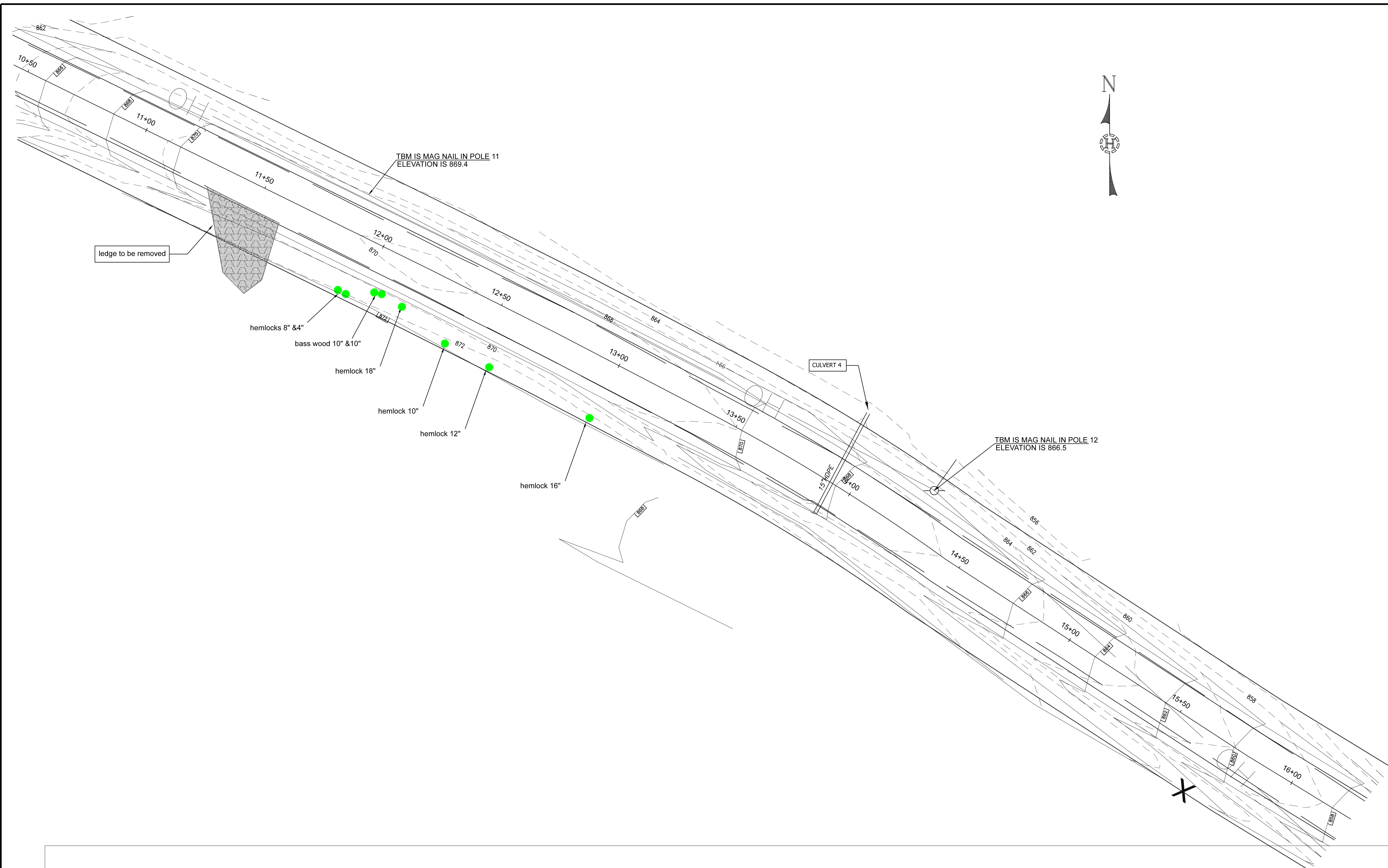
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Erin Darrow, P.E.
152 Main Street
New London, NH 03257
(603) 526-2807 office
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SITE PLAN
GOOSE POND ROAD PHASE II
ROAD IMPROVEMENTS

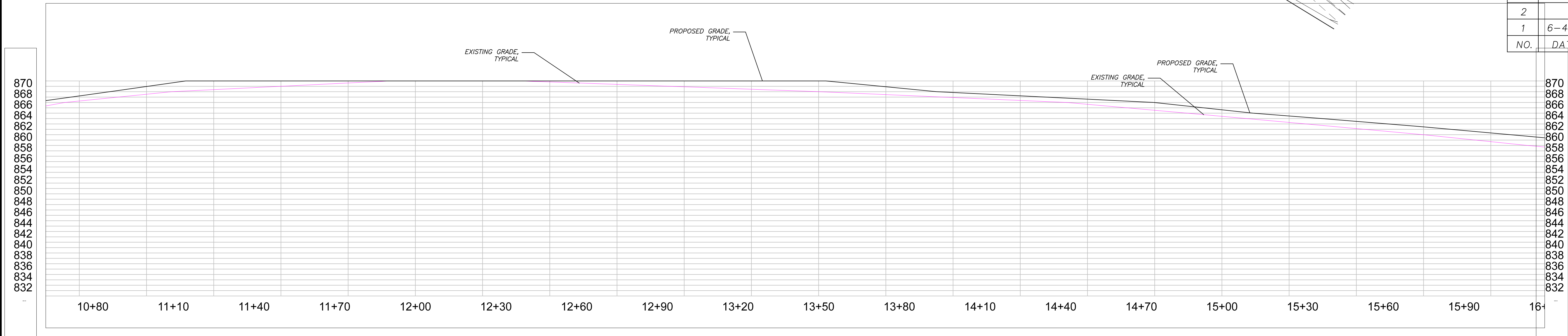
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SHEET 4



MATCH STATION 16+00



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2			
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Erin Darrow, P.E.
152 Main Street
New London, NH 03257
(603) 526-2807 office
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(603) 523-8811 fax
Erin@RightAngle.Engineering

SITE PLAN
GOOSE POND ROAD PHASE II
ROAD IMPROVEMENTS

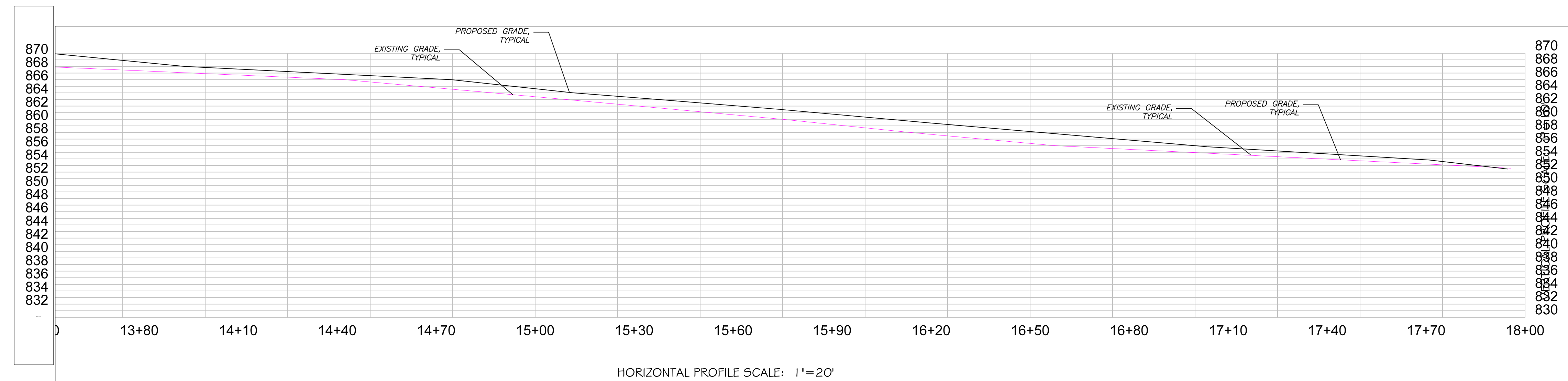
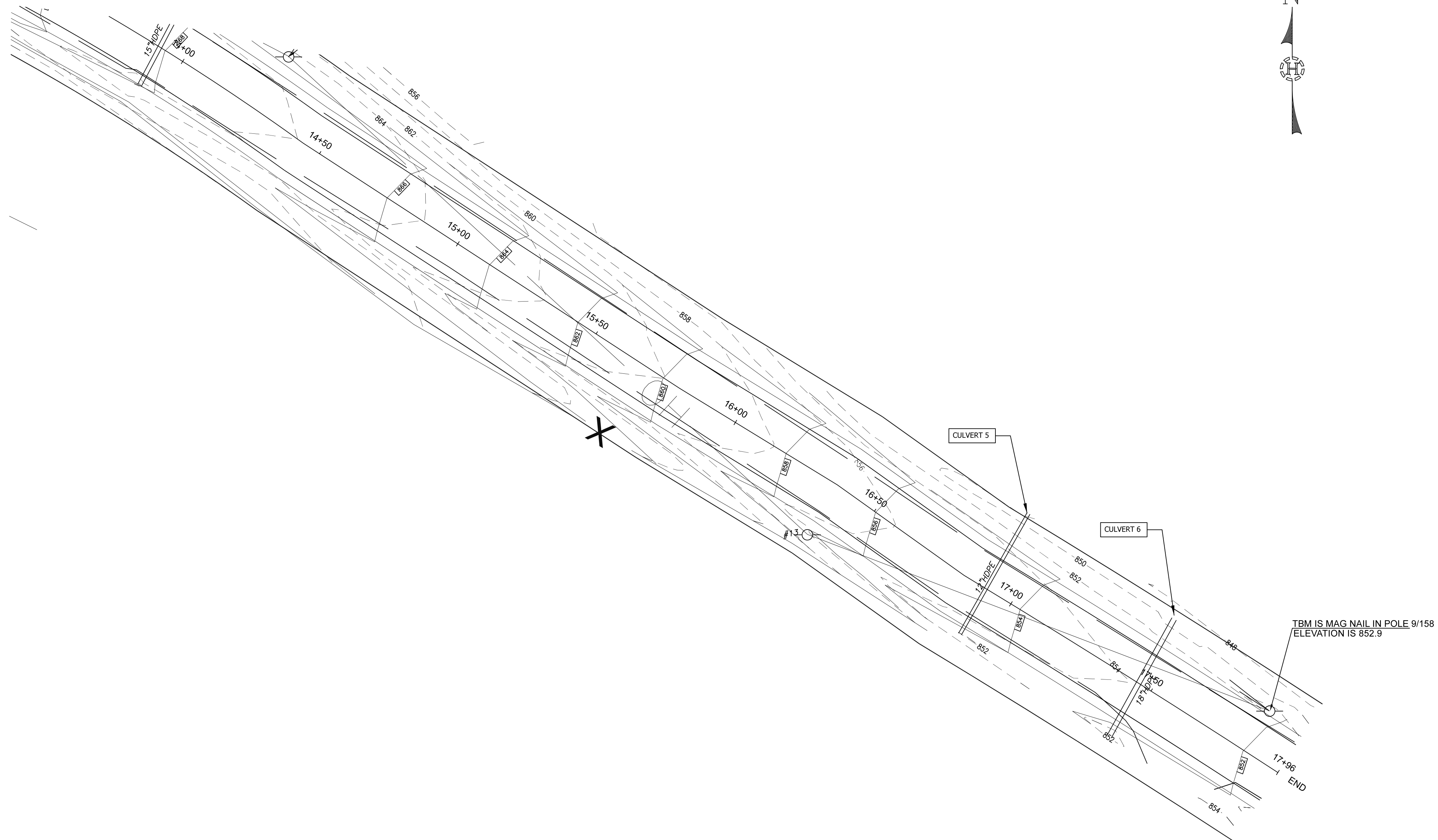
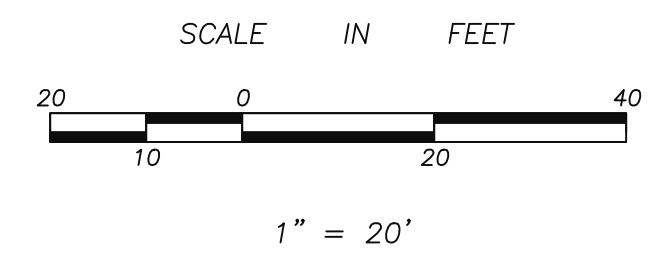
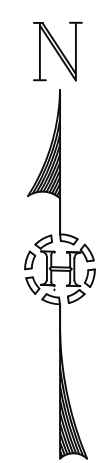
TOWN OF LYME, NH

MAY 30, 2019

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SHEET 5



2			
1	6-4-19	CHANGE ROAD GRADES	EMD
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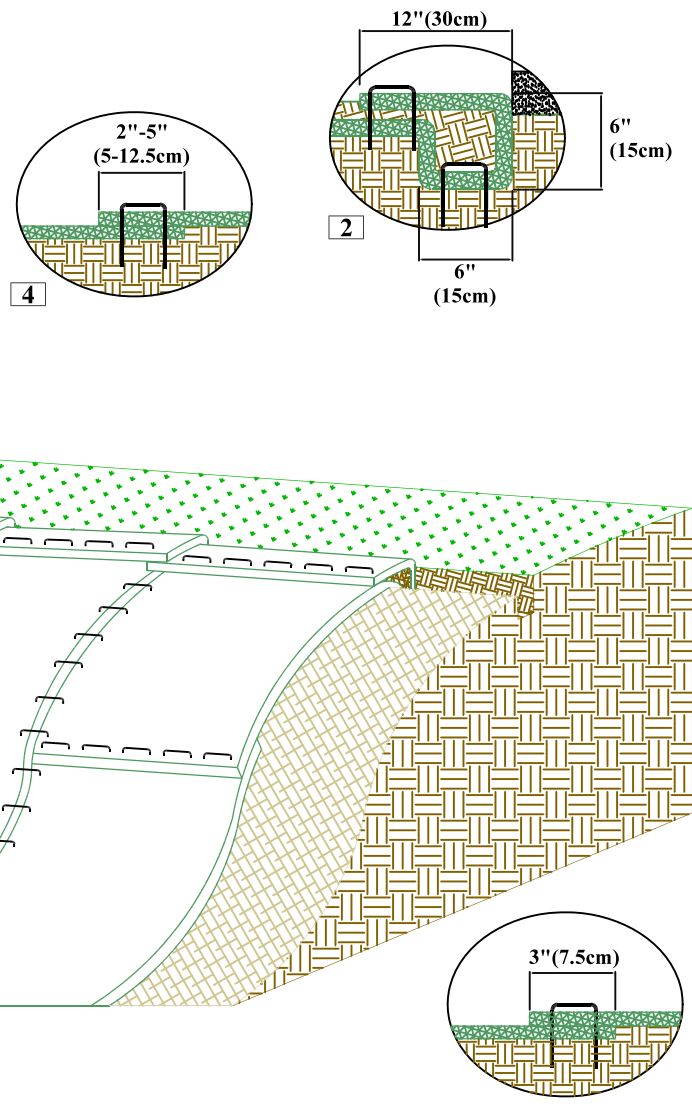
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Erin Darrow, P.E.
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New London, NH 03257
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SITE PLAN
GOOSE POND ROAD PHASE II
ROAD IMPROVEMENTS

TOWN OF LYME, NH
MAY 30, 2019
PREPARED FOR OWNER:

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SHEET 6



**SLOPE
INSTALLATION
DETAIL**

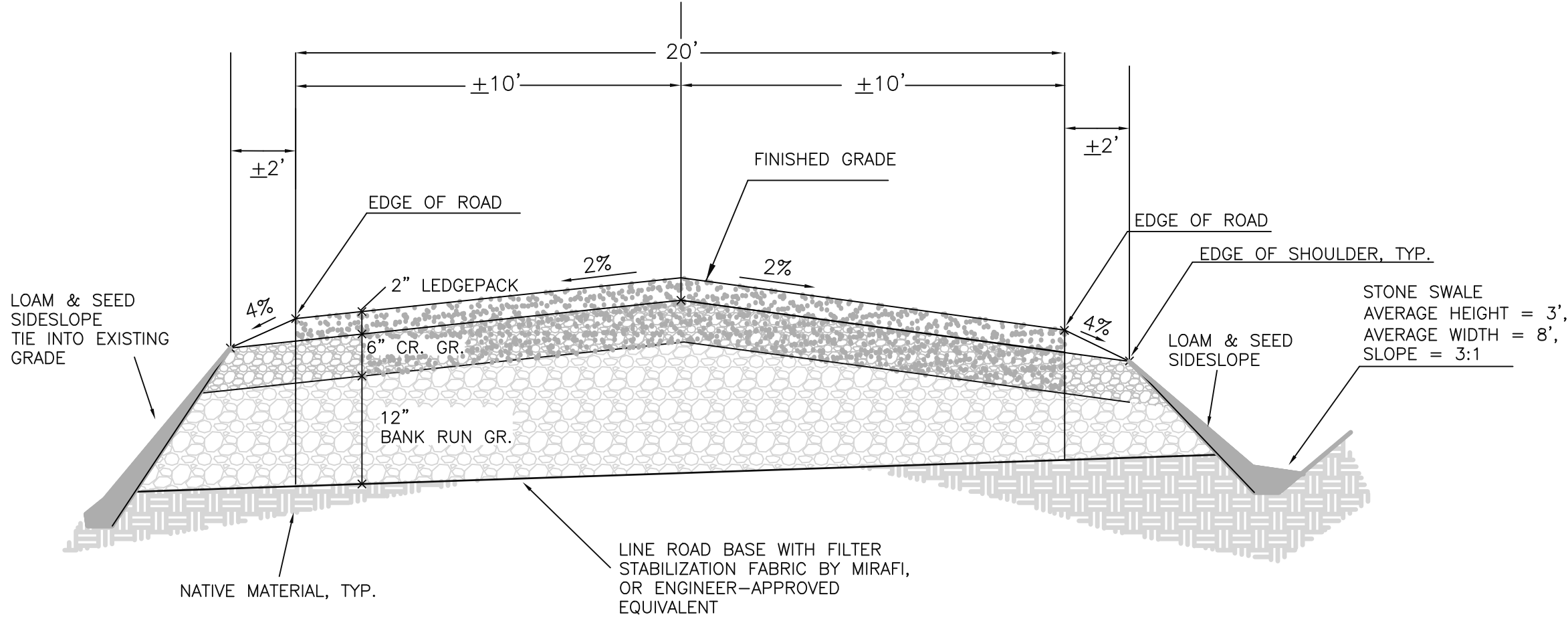
NON-WOVEN SLOPE STABILIZATION MAT

1. Prepare soil before installing rolled erosion control products (RECPs) including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs in a 6" (15cm) deep X 6" (15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after staking. Apply seed to the compacted soil and fold the remaining 12" (30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" (30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel RECPs must be stapled with approximately 2" X 5" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs applied down the slope must be end over end (Shingle style) with an approximate 3" (7.5cm) overlap. Staple through overlapped area, approximately 12" (30cm) apart across entire RECPs width.

STA 0+00 - STA 3+00

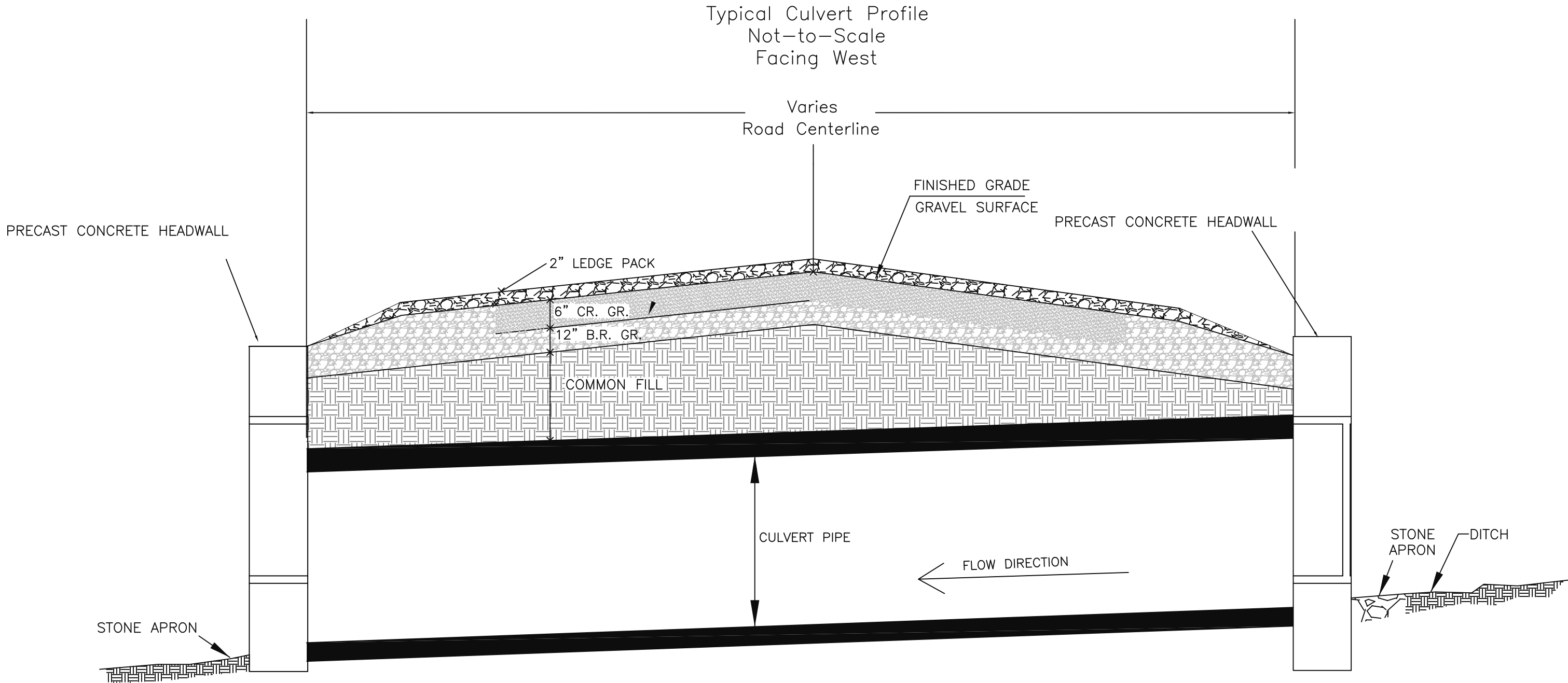
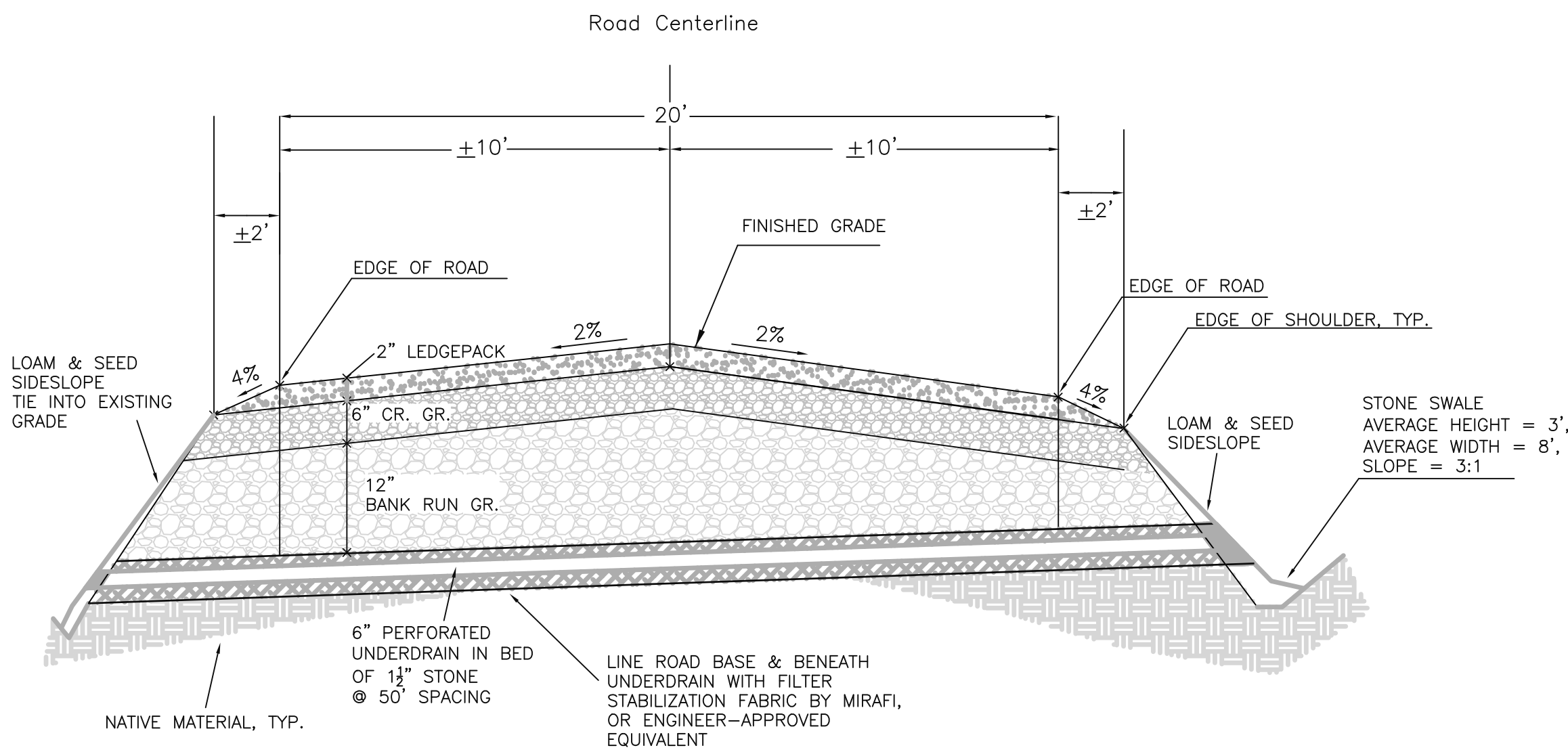
STA 12+00 - STA 17+96
SUPERELEVATE TO NORTH
STA 4+00 - 5+50

Typical Road
Cross-Section
NOT-TO-SCALE
Without Underdrains
Road Centerline



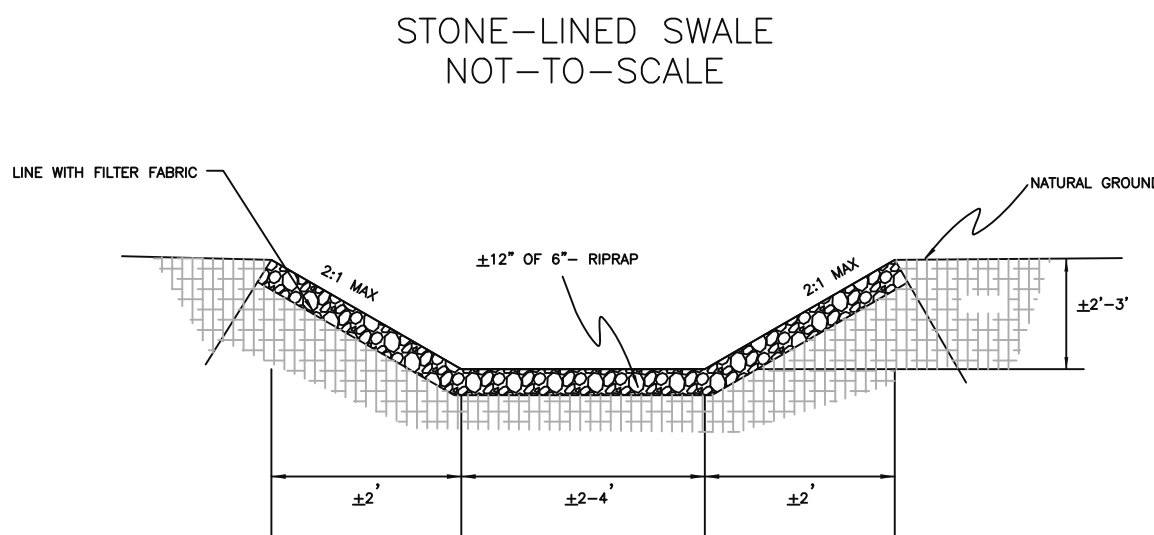
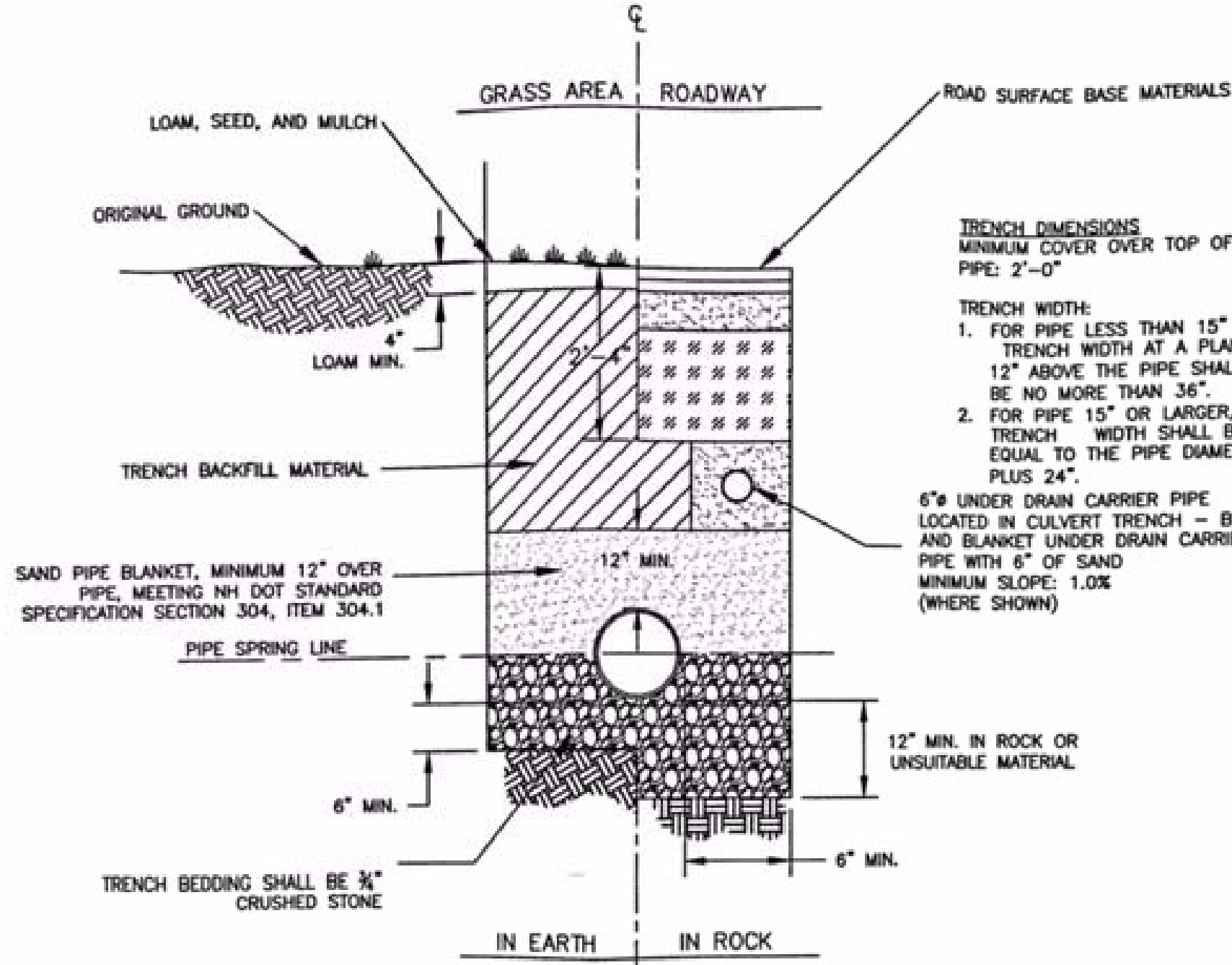
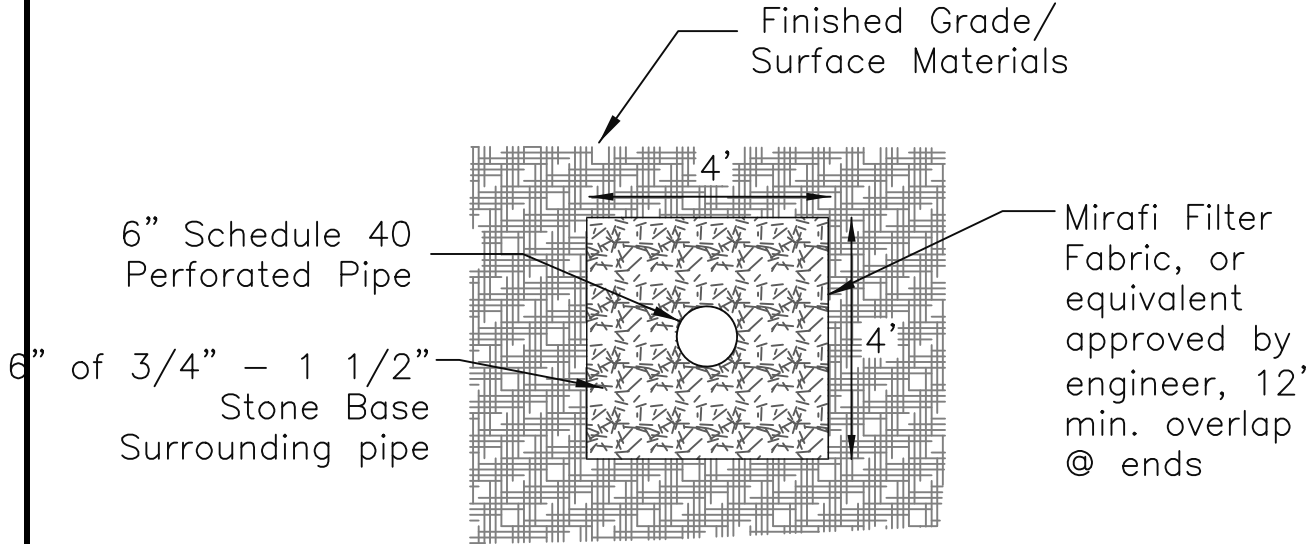
STA 4+00 - STA 11+00

Typical Road
Cross-Section
NOT-TO-SCALE
With Underdrains
FACING EAST
Road Centerline



CULVERT NOTES:

1. CULVERT SHALL BE PLACED ON BED OF 6" MINIMUM DEPTH 3/4" STONE.
2. CRUSHED GRAVEL SHALL BE PLACED AT 6" LIFTS TO 95% STANDARD PROCTOR DENSITY AROUND AND ABOVE CULVERT TO STANDARD ROAD BASE ELEVATION.



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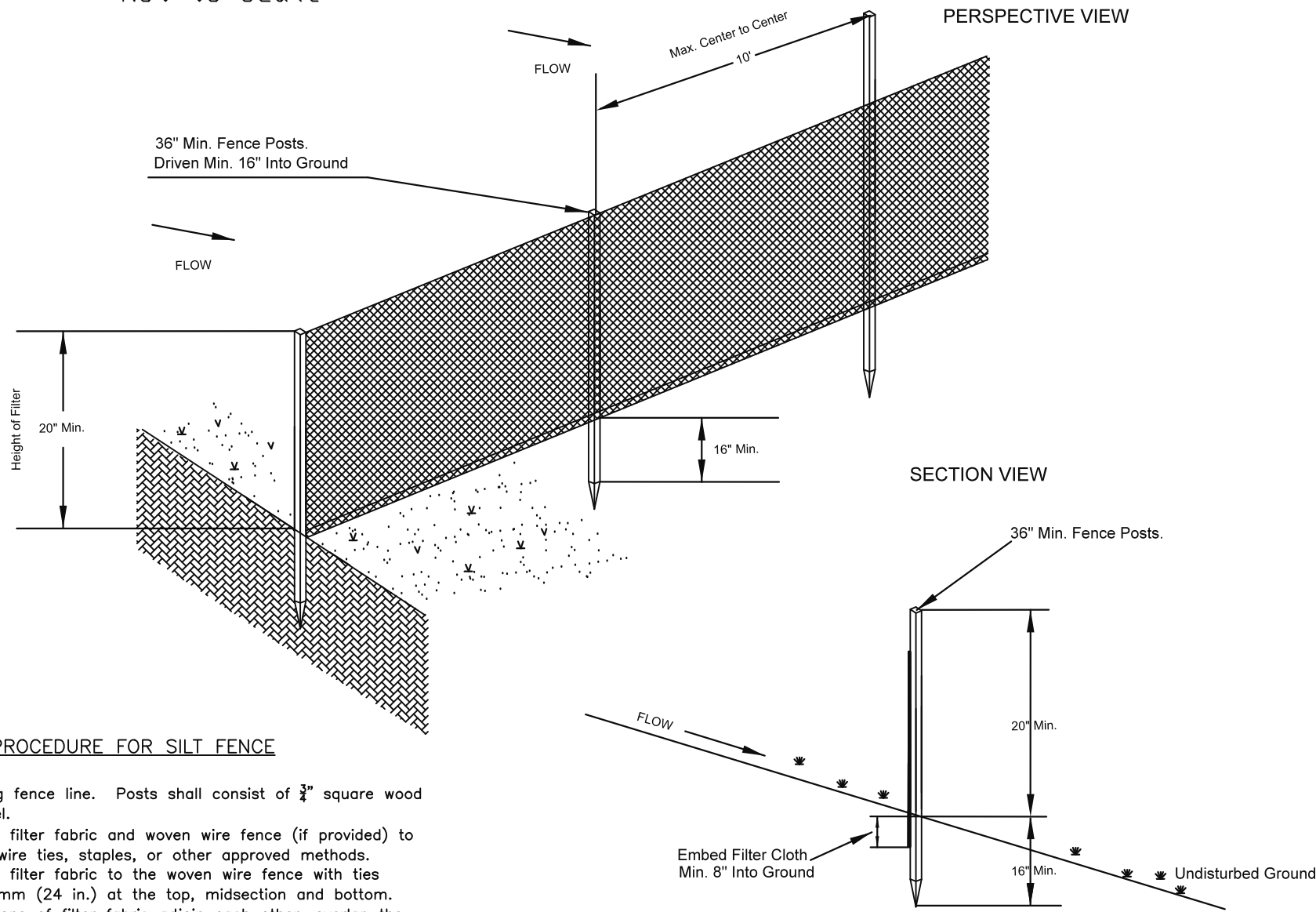
CONSTRUCTION DETAILS PLAN
GOOSE POND ROAD PHASE II
ROAD IMPROVEMENTS

TOWN OF LYME, NH
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SILT FENCE

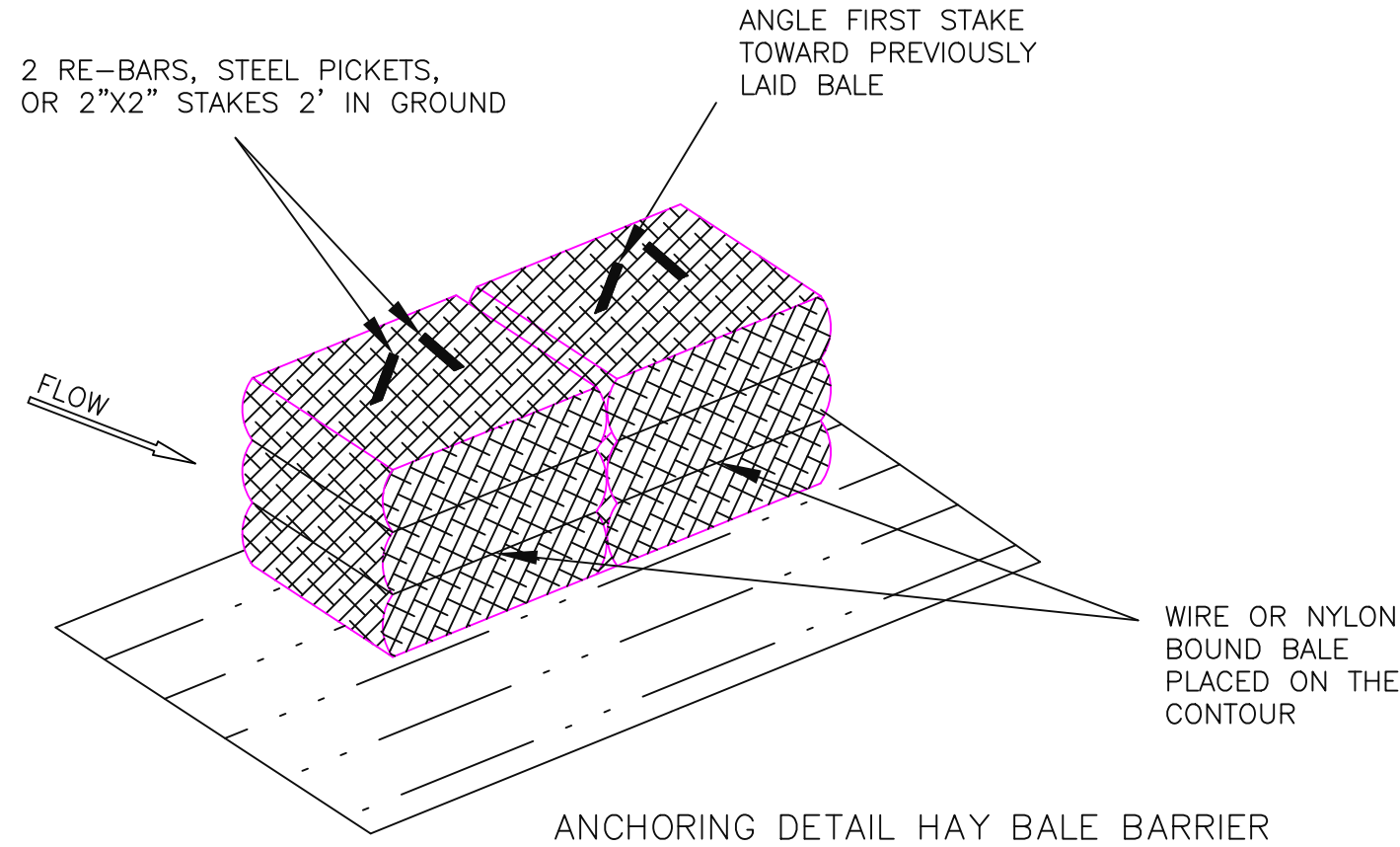
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INSTALLATION PROCEDURE FOR SILT FENCE

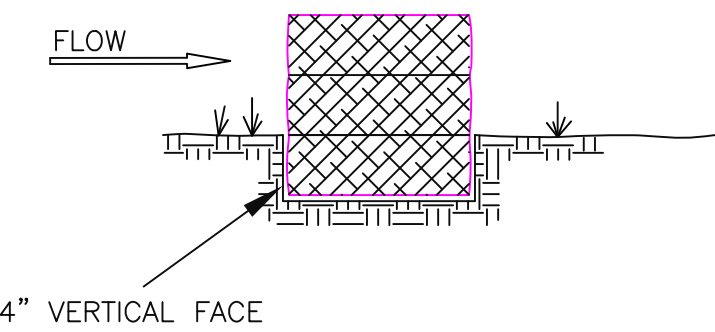
1. Set posts along fence line. Posts shall consist of 2 square wood or 1.33 lb/ft steel.
2. Securely fasten filter fabric and woven wire fence (if provided) to fence posts with wire ties, staples, or other approved methods.
3. Securely fasten filter fabric to the woven wire fence with ties spaced every 600mm (24 in.) at the top, midsection and bottom.
4. When two sections of filter fabric adjoin each other, overlap the sections by 150mm (6 in.), fold, and staple at a post. Securely splice woven wire fence at a post.
5. Place silt fence 1500 mm (5 ft.) beyond the toe of slope or on the contour. At the end of silt fence runs, flare uphill.
6. Inspect during and after significant runoff event(s). Perform maintenance as needed or directed and remove material when "bulges" develop in the silt fence.
7. Remove silt fence, as directed, when no longer needed. Before the silt fence is removed, stabilize with vegetation any sediment which is permitted to remain in place.

HAY BALE



INSTALLATION PROCEDURE FOR HAY BALES

1. Place bales 5 feet beyond the toe of slope or on the contour and in a row with ends tightly abutting the adjacent bales, with no gaps, wedge loose bale material between bales.
2. Place bales with bindings horizontal and securely anchor in place by driving two stakes through the bale.
3. During and after runoff event(s) inspect hay bales frequently and repair/replace promptly as needed or as directed. Remove sediment when accumulation reaches one half the bale height or as directed.
4. Remove bales, as directed, when they are no longer needed. Before bales are removed, stabilize with vegetation any sediment which is permitted to remain in place. When bales are removed, fill trench with suitable earth material and stabilize with vegetation.



EMBEDDING DETAIL

VEGETATIVE MEASURES

TOPSOIL STOCKPILING: TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ON CRITICAL AREAS AND ALL OTHER AREAS TO BE SEED. THE STOCK PILE WILL NOT BE COMPACTED AND SHALL BE STABILIZED AGAINST EROSION WITH TEMPORARY SEEDING.

TEMPORARY SEEDING:

A) BEDDING: REMOVE STONES AND TRASH THAT WILL INTERFERE WITH SEEDING THE AREA. WHERE FEASIBLE, TILL THE SOIL TO A DEPTH OF ABOUT THREE INCHES TO PREPARE SEED BED AND MIX THE FERTILIZER INTO THE SOIL.

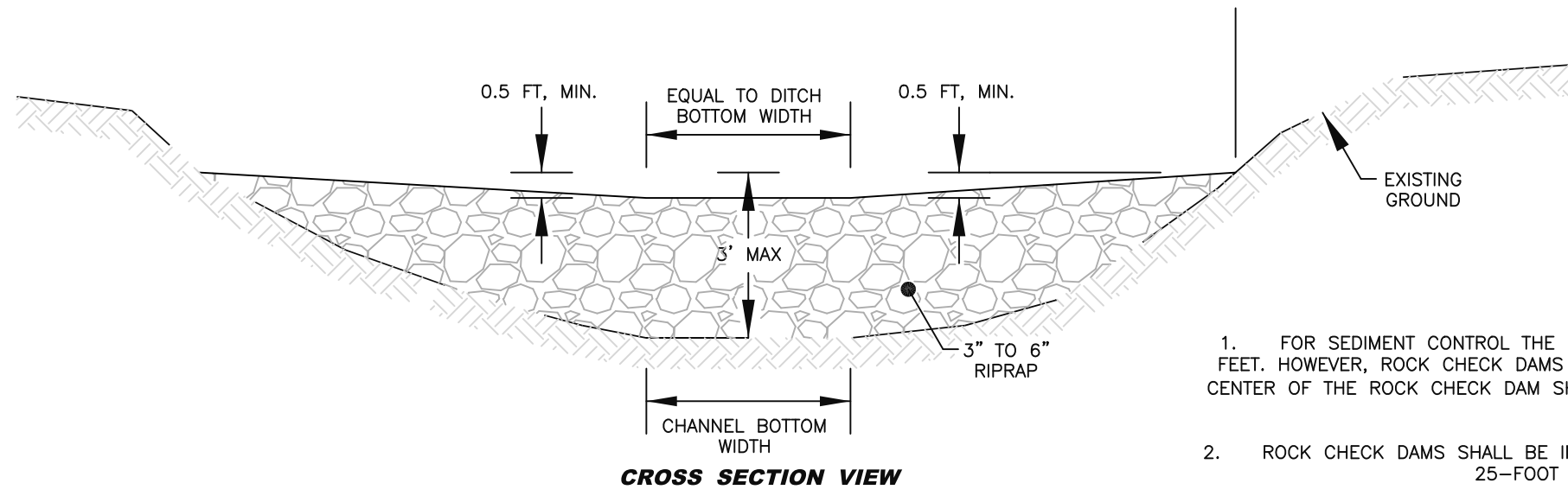
B) FERTILIZER: FERTILIZER SHOULD BE UNIFORMLY SPREAD OVER THE AREA PRIOR TO BEING TILLED INTO THE SOIL. A 10-10-10 MIX OF FERTILIZER SHOULD BE APPLIED AT A RATE OF 300 POUNDS PER ACRE (OR 7 POUNDS PER 1,000 S.F.)

C) SEED MIXTURE: USE ANY OF THE FOLLOWING:

SPECIES	PER ACRE	PER 1000 S.F.	DATES
WINTER RYE	112 LBS.	2.6 LBS.	8/15 - 10/1 (FALL)
OATS	80 LBS.	2.0 LBS.	4/1 - 7/1 ; 8/15 - 9/15
RYEGRASS (ANNUAL)	40 LBS.	1.0 LBS.	4/1 - 6/1
RYEGRASS (PERENIAL)	30 LBS.	0.7 LBS.	4/1 - 6/1 ; 8/15 - 9/15

D) MULCHING: MULCH SHALL BE USED ON HIGHLY ERODABLE SOIL, ON CRITICALLY ERODING AREAS, AND ON AREAS WHERE CONSERVATION OF MOISTURE WILL FACILITATE PLANT ESTABLISHMENT.

TYPE	RATE PER 1,000 S.F.	USE AND COMMENTS
HAY OR STRAW	70 TO 90 LBS.	MUST BE DRY AND FREE OF MOLD. MAY BE USED WITH PLANTINGS.
WOOD CHIPS OR BARK MULCH	160 TO 920 LBS.	USED MOSTLY WITH TREES AND SHRUBS PLANTINGS.
JUTE AND FIBROUS MATTING	AS PER MANUFACTURERS SPECIFICATIONS	USED IN SCOPE AREAS. WATER COURSED AND OTHER AREAS.
CRUSHED STONE	SPREAD MORE THAN 1/2" TO 1 1/2" DIA.	EFFECTIVE IN CONTROLLING WIND AND WATER EROSION.



CROSS SECTION VIEW

ROCK CHECK DAM

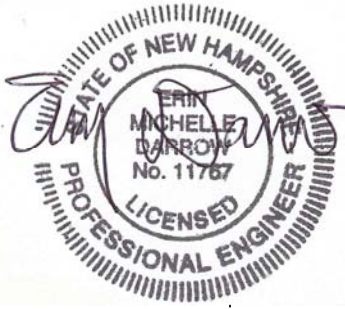
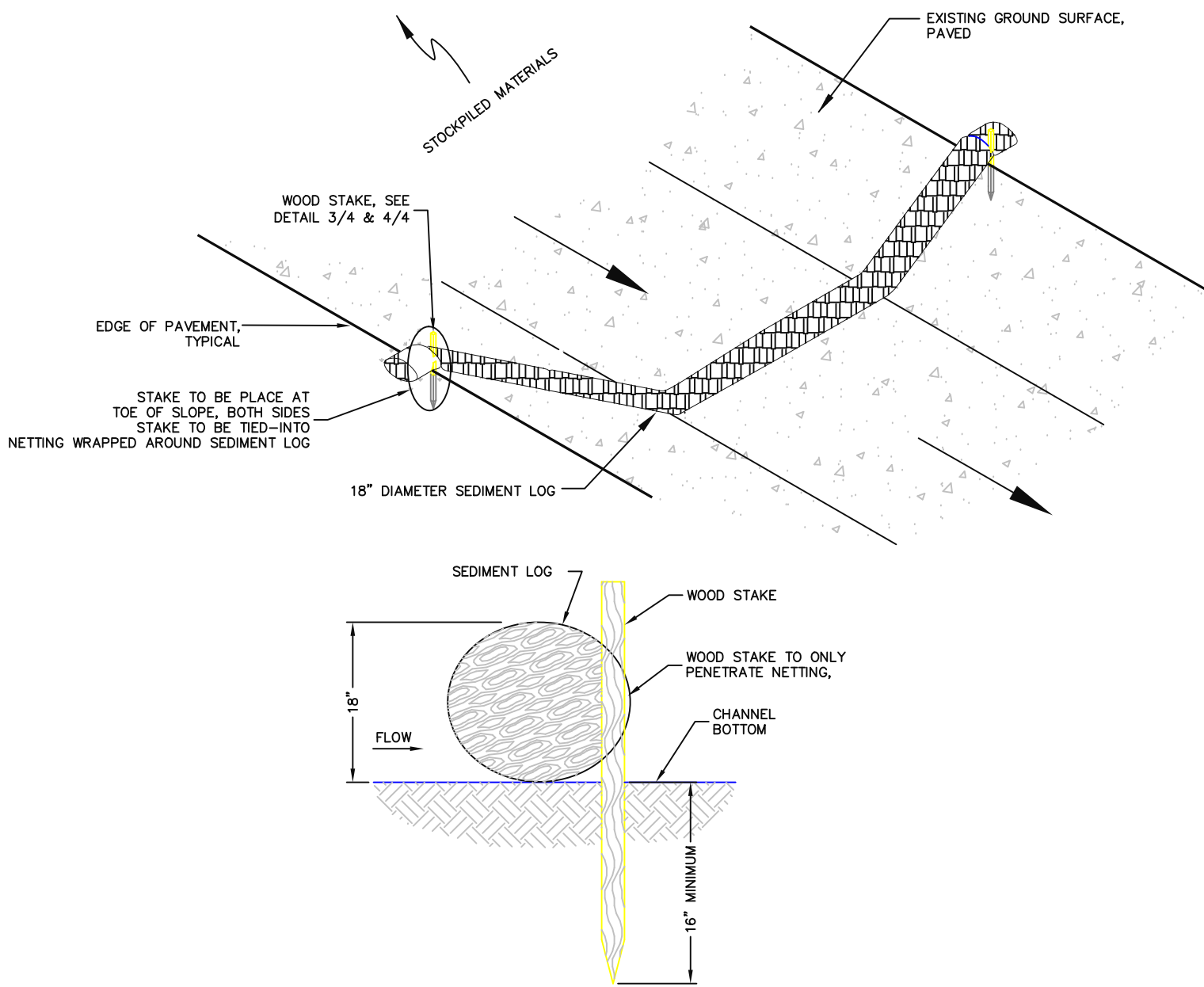
NOT-TO-SCALE

NOTES:

1. FOR SEDIMENT CONTROL THE MAXIMUM HEIGHT OF THE ROCK CHECK DAM IS 3 FEET. HOWEVER, ROCK CHECK DAMS CAN BE CONSTRUCTED IN SMALLER DITCHES. THE CENTER OF THE ROCK CHECK DAM SHALL BE 0'-6" LOWER THAN THE OUTER EDGES AS SHOWN.
2. ROCK CHECK DAMS SHALL BE INSTALLED STARTING AT TOP OF NEW DITCH AND AS 25-FOOT INTERVALS THEREAFTER.
3. THE CENTER OF ROCK CHECK DAMS CONSTRUCTED IN PROJECT CONSTRUCTED "VEE" SHAPED OR EXISTING "VEE" SHAPED DITCHES SHALL BE 0'-6" LOWER THAN AND SLOPED TO THE OUTER TOP EDGES OF THE DITCH SO HIGH FLOWS GO OVER THE TOP OF THE DAM AND NOT AROUND THE EDGES.
4. ROCK CHECK DAMS SHALL BE REMOVED AFTER THE FIRST GROWING SEASON.

SEDIMENT LOG BARRIER

NOT-TO-SCALE



ENGINEER:
Right Angle Engineering, PLLC
Erin Darrow, P.E.
152 Main Street
New London, NH 03257
(603) 526-2807 office
(603) 443-7815 mobile
(603) 523-8811 fax
Erin@RightAngle.Engineering

SEDIMENT AND EROSION DETAILS PLAN
GOOSE POND ROAD PHASE II
ROAD IMPROVEMENTS

TOWN OF LYME, NH

MAY 30, 2019

PREPARED FOR OWNER:

TOWN OF LYME, NH
ONE HIGH STREET/PO BOX 126
LYME, NH 03768

NO.	DATE	DESCRIPTION	BY
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