

## **SECTION 14. BASIC STANDARDS SUBMISSIONS:**

### **14.A Narrative**

The proposed Project is located on a mountainside with varied slopes and terrain that consists primarily of forested areas ranging in slope from 10-45%. Aside from typical surface runoff, there are no known existing erosion problems at the proposed Project location. Protected natural resources and other environmentally sensitive areas have been identified and are discussed in detail in other sections of this application.

An Erosion and Sedimentation Control Plan (E&SC Plan), based on the Department's Maine Erosion and Sedimentation Control BMPs, will be provided to the Contractor and will include the location and design of temporary erosion control measures, such as perimeter controls and stabilization standards. For the Project, the E&SC Plan measures have been incorporated directly into the trail grading plans and civil sheets (see Appendix 14-1). Design and implementation of stormwater control features such as basins, soil filters and vegetated buffers will be shown on the plans as needed.

Ski trail construction represents a specialized type of earthwork that will be undertaken with significant oversight and participation by Sugarloaf staff. A typical method of earthwork on steep ski trail grades is via an excavator secured to a bulldozer winch cable. This method results in a maximized work area established by the length of the winch cable, which is generally no longer than 200 ft. This serves to limit extensive exposed soils on the trail and provides an opportunity to install permanent temporary stabilization and water bar diversion prior to the excavation team advancing down the mountain. Sheet CA-1.01 found appendix 14.1 was developed to support this approach.

### **14.B Implementation Schedule**

The best method to limit erosion and sedimentation is to prevent it from occurring by protecting exposed soils or sensitive areas. The location of the limits of work and sensitive resource areas will be provided to the Contractor. Limits of work and resource areas will be clearly demarcated in the field and maintained and updated as necessary by the Project's Environmental Monitor.

The Project has been broken down into essentially three Phases for construction, though these phases may be multi-year construction efforts. Please see the Phasing Plan for visual representation of the Project phasing.

Following presumed Project approval in spring of 2022, the design team will prepare construction plans and bidding documents for the first phase of construction work. It is anticipated that bidding and contractor selection will occur summer into fall of 2022 in preparation of a late fall or winter construction start.

Fall/winter of 2022 is anticipated to consist of timber harvesting and clearing efforts for the phase one construction limits of disturbance, including select Phase 1 ski trails.

The 2023 construction season will kick-off the Phase 1 infrastructure including new lift, roads, stormwater BMPs, utilities, and condominium site work. It is anticipated that Phase 1 improvements will extend into and include the 2024 construction season.

Phase II and subsequent phases will be considered based on the timing of Phase 1 build out and pace of real estate sales, but is likely to start in 2025.

Within Phase 1 construction, clearing and soils disturbance will be limited to an area manageable by, and scaled to, the number of crews or amount of construction effort. Perimeter sediment controls will be installed prior to earthwork in a given area. Gravel, riprap, permanent erosion control blanket, and erosion control mix covered surfaces will be deemed stable, signaling the ability for initial clearing of additional areas. Binder pavement, where paving is specified, will generally lag behind completion of gravel surfaces for one year, allowing time for settlement and construction maturation. Surface paving will be further delayed until risk of damage from construction activity is reduced.

#### **14.C Erosion and Sedimentation Control Plan**

The goal of the E&SC Plan is to provide contractors, environmental monitors, and agency personnel with a single, cohesive set of erosion control specifications for the Project. The Plan is designed to provide specifications for the installation and implementation of soil erosion and



sedimentation control measures while allowing adequate flexibility of the application of the most appropriate measures based on site-specific conditions. During construction and continuing until all disturbed areas are properly restored and stabilized after construction, the contractor(s) will adhere to the details and specifications contained in the E&SC Plan. Drainage devices, site access and erosion control features are anticipated to be inspected weekly during construction, as well as promptly after each period of significant rain or snow runoff, and any damage to erosion controls will be repaired. Accumulated silt, broken branches and other debris which interferes with drainage or sediment collection will be removed. Sugarloaf personnel or their designated representatives will ensure that the procedures are followed by regularly inspecting all work and prescribing corrective steps to be taken where necessary.

Typical erosion control measures established by the E&SC Plan consists of a variety of non-structural measures including temporary mulching and seeding; permanent mulching and seeding; dormant seeding and winter mulching; temporary check dams (haybale and stone); silt fence, and hay bale or erosion control mix erosion control barriers to be utilized as appropriate.

#### **14.D Details and Specifications**

Detailed drawings showing the plan view of the facility with proposed component locations, including location, function, and ground area of the Project, as well as landowner and political boundaries will be provided to the Contractor.

Construction of the proposed Project will require site grading and excavating. A comprehensive set of erosion and sediment control measure specifications will be included in the E&SC Plan, though it is unlikely that every measure will be implemented for the Project. Having specifications for multiple erosion control measures will allow the contractors and environmental monitor to select the most effective approaches for the site and conditions at the time of construction. No more than 10 acres will be disturbed at any one time without temporary stabilization measures in place.

#### **14.E Design Calculations**

The design of the erosion and sedimentation control measures will be based on the MDEP's Maine Erosion and Sedimentation Control BMPs. Sediment trap sizing requirements for ski trail work are included on sheet CA-1.01.

#### **14.F Stabilization Plan**

Requirements for soil stabilization are included with the E&SC Plans. Typically, loaming, seeding, and mulching is performed after the completion of construction activities to promote ground cover and erosion control. Loaming, seeding, and mulching shall be done in accordance with the Project E&SC Plan.

#### **14.G Winter Construction Plan**

Construction activities conducted between October 15 and April 15 will follow the procedures included in the Project E&SC Plan and BMPs. Construction activities were designed to follow the erosion and sedimentation control BMPs that were developed by the MDEP for winter construction, as applicable (Maine Erosion and Sediment Control Best Management Practices, Manual for Designers and Engineers, October 2016). More frequent, heavier application of temporary mulch, increased dormant seeding rates, the substitution or additional use of erosion control mix berms as erosion control barriers, and other supplemental erosion controls will be used as required. Prior to winter shut down, Sugarloaf will ensure that all soils are properly stabilized and that slopes are adequately protected to prevent erosion during winter storms and spring thaw. This may include the application of erosion control mix on exposed soils located within a slope in place of straw or hay mulch.

**APPENDIX 14-1**  
**EROSION & SEDIMENTATION CONTROL PLAN**



Legend

Legend table with columns: Exist., Prop., and descriptions for various civil engineering symbols and lines.

Abbreviations

Abbreviations table with columns: General, and lists of abbreviations for terms like ABAN, ACR, ADJ, etc.

Notes

- General notes including: CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.

Layout and Materials

- Layout and Materials notes including: DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS.

Demolition

- Demolition notes including: CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC.

Erosion Control

- Erosion Control notes including: PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

Existing Conditions Information

- Existing Conditions Information notes including: BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY [IWHOM], [AND FROM PLANS OF RECORD].

Document Use

- Document Use notes including: THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB.

Sugarloaf Mtn Corp  
West Mountain  
Expansion

5092 Access Road  
Carrabassett Valley, ME 04947

Revision table with columns: No., Revision, Date, App'd.

Table with columns: Designed by, Checked by, Issued for, Date.

Review September 23, 2021

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Notes

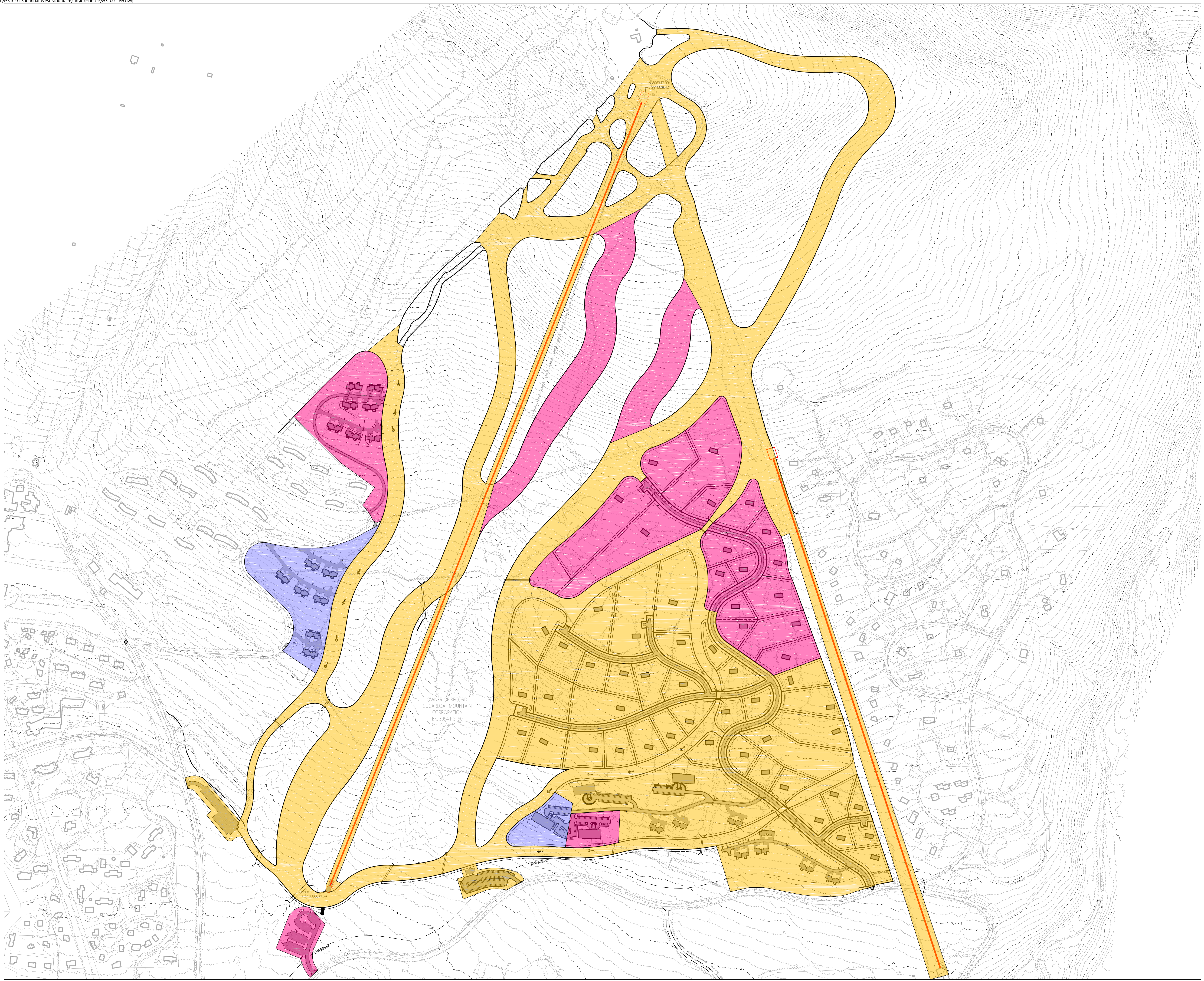
Professional Engineer Seal for Peter B. Smiar, No. 16994, License No. 16994. Includes sheet number 2 of 58 and project number 55310.01.



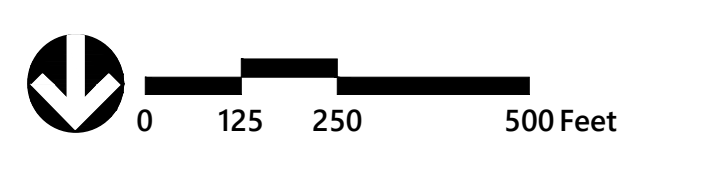


**LEGEND**

- Phase One
- Phase Two
- Phase Three



OWNER OF RECORD  
SUGARLOAF MOUNTAIN  
CORPORATION  
BK 9994 PG. 90



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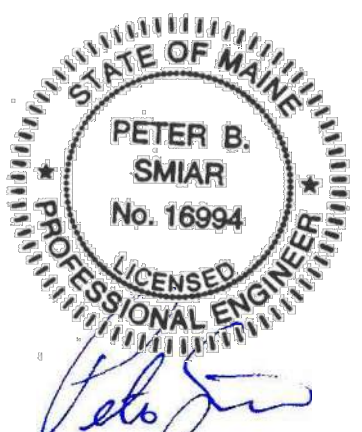

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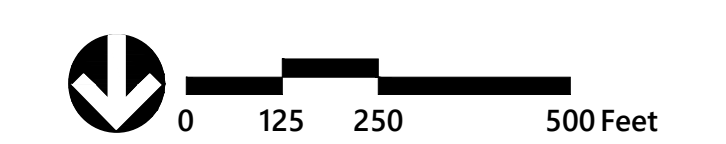
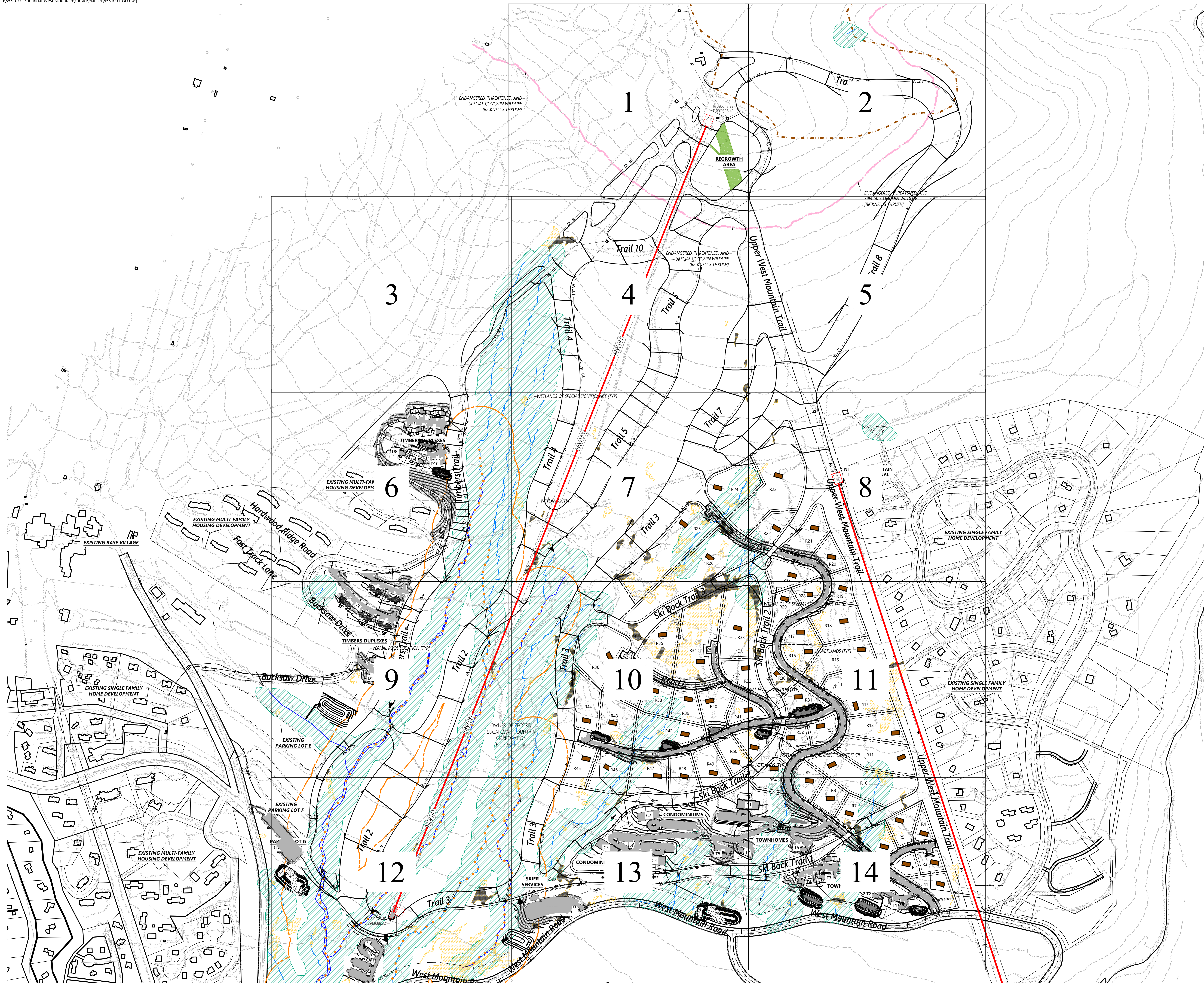
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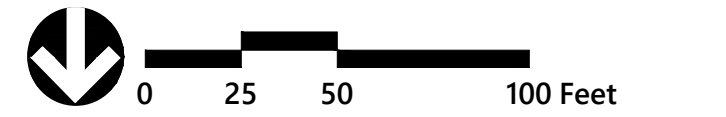
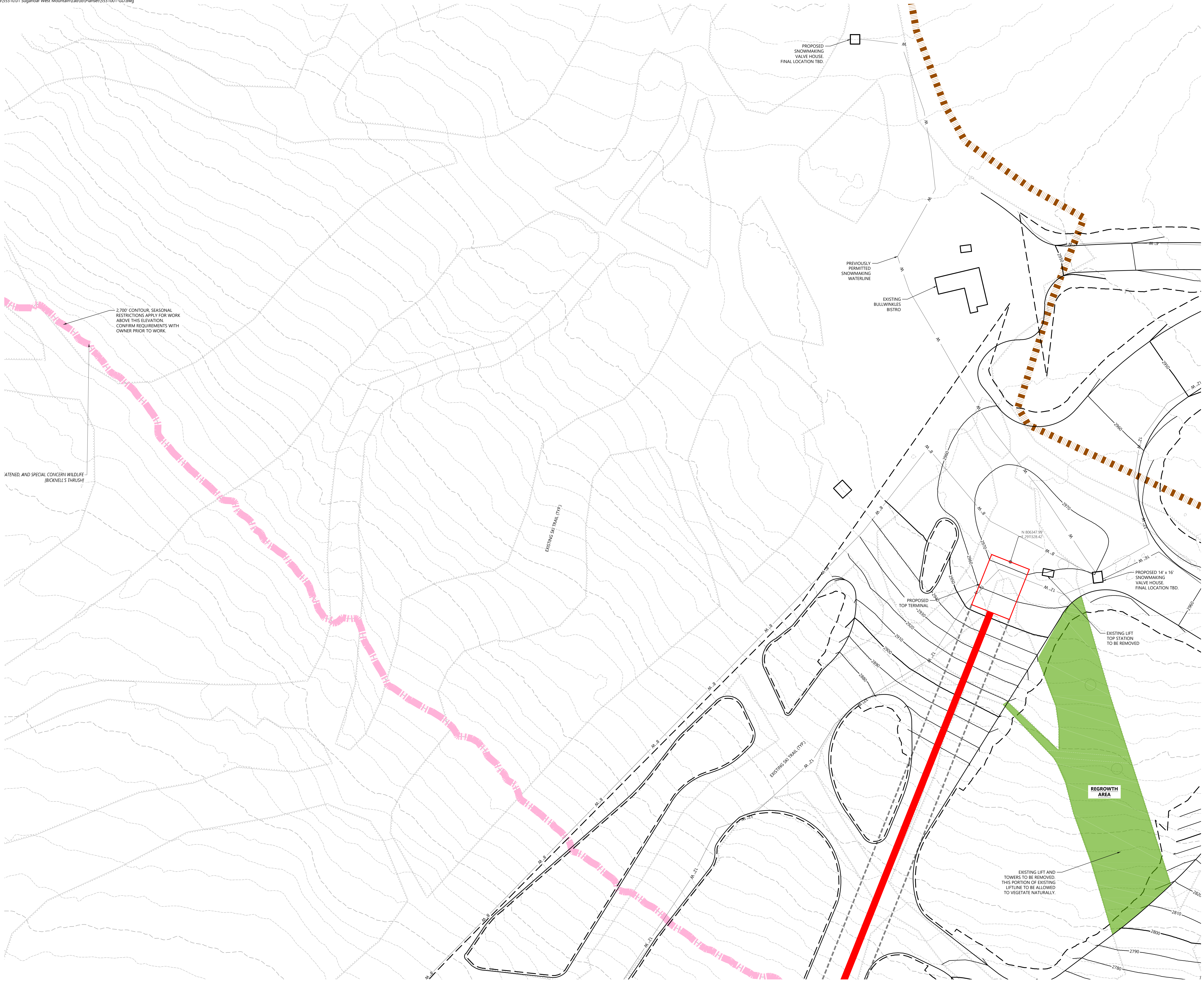
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Project Number: 55310.01  
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Sheet: \_\_\_\_\_ of 58  
Professional Engineer: **PETER B. SMAR** No. 18994  
Project Number: 55310.01

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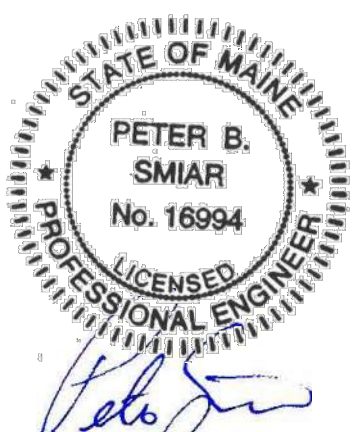


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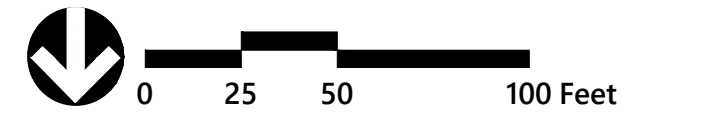


**CG-1.01**  
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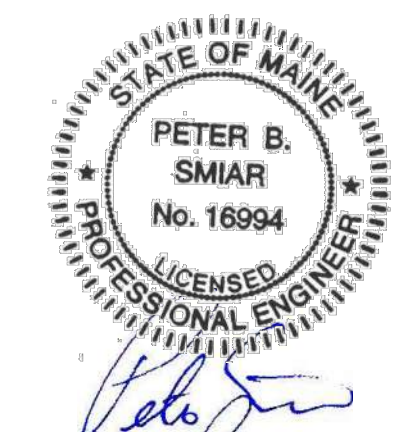
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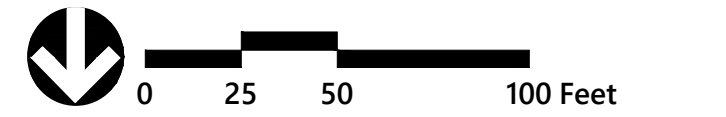
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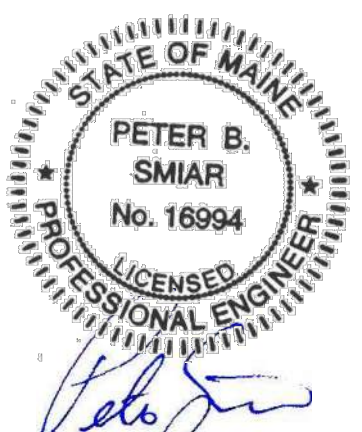

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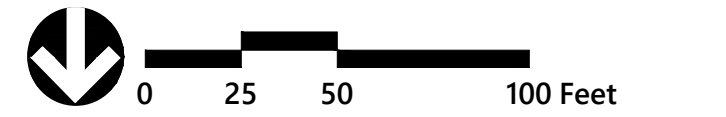
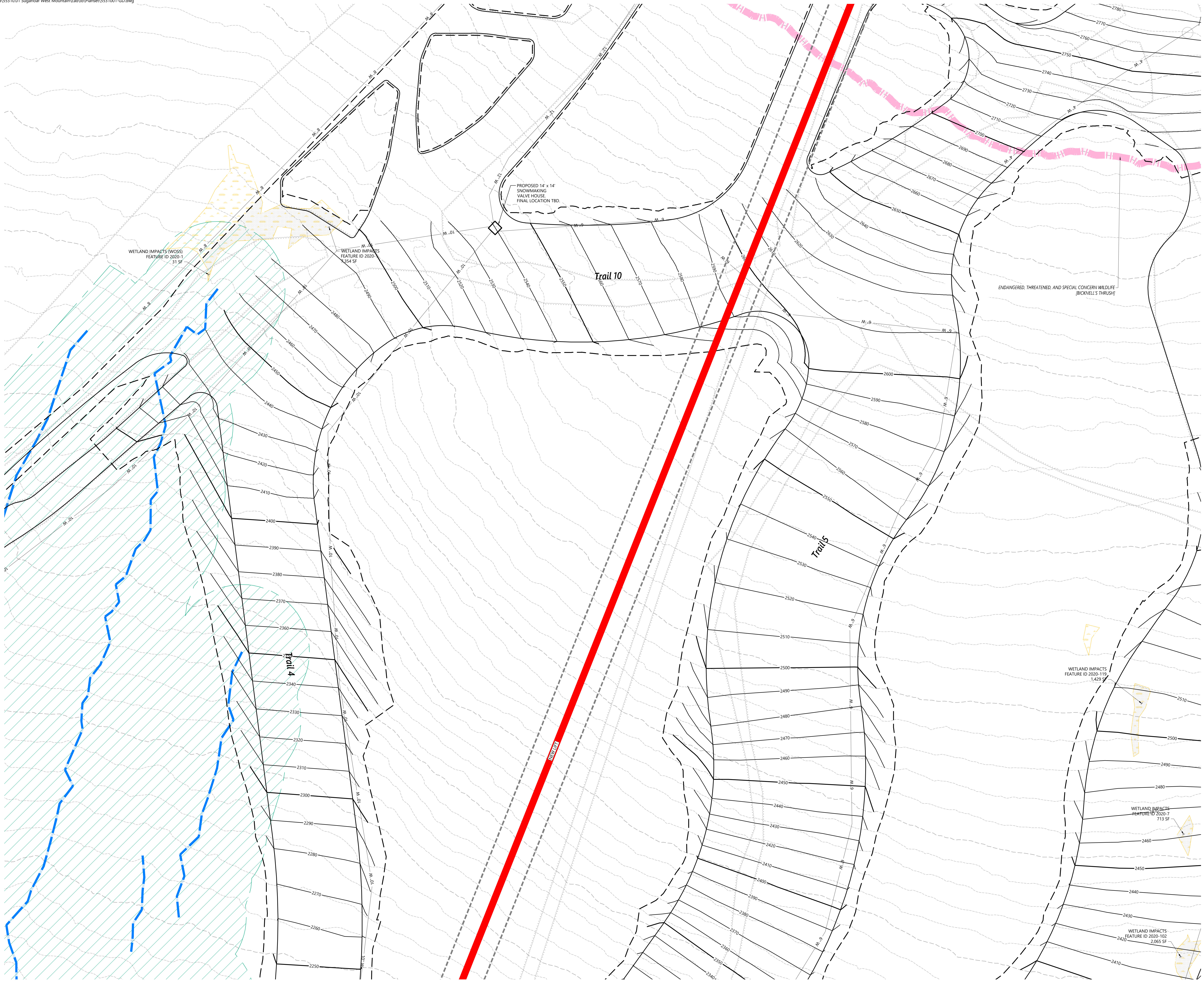
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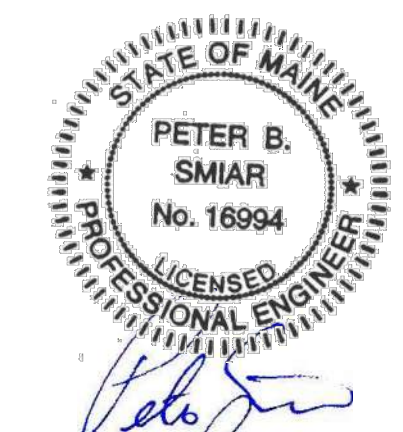


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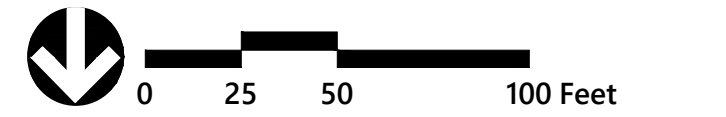


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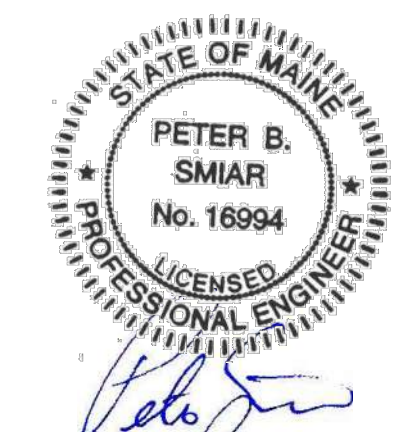


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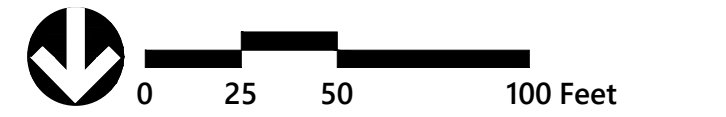
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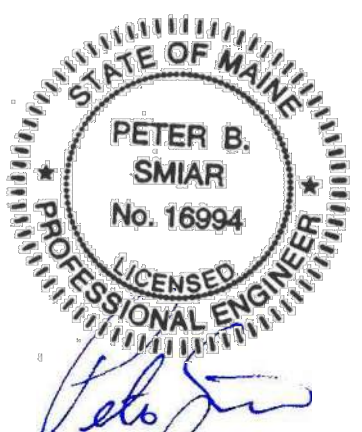
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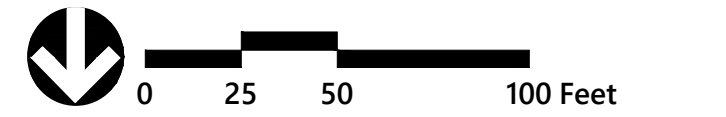
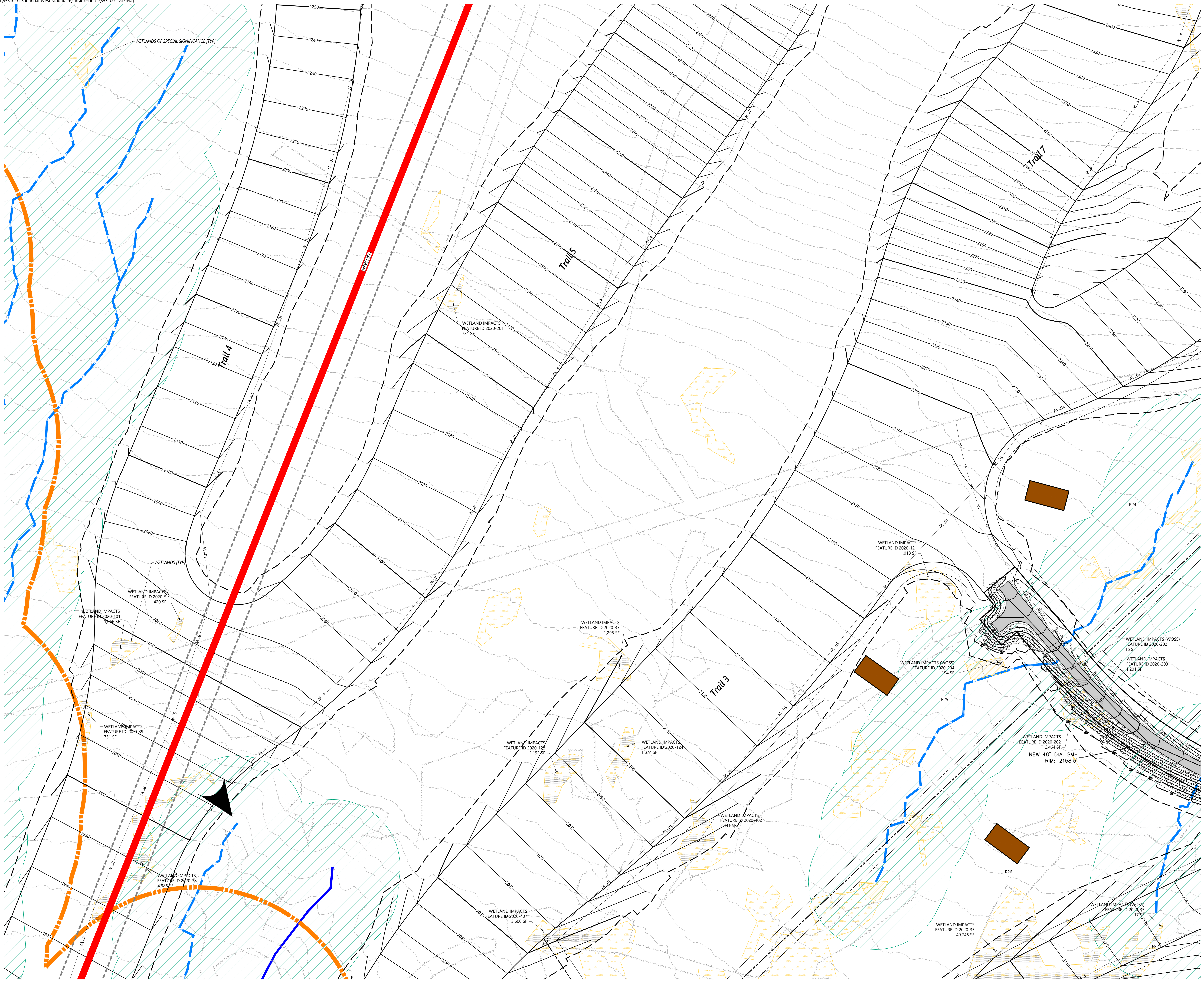
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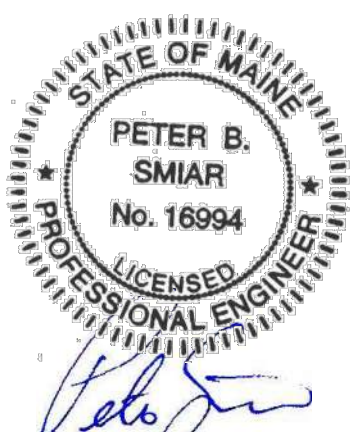
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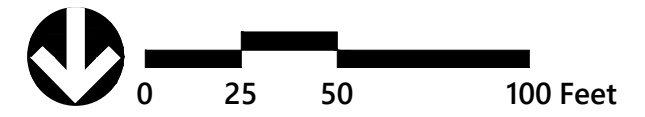
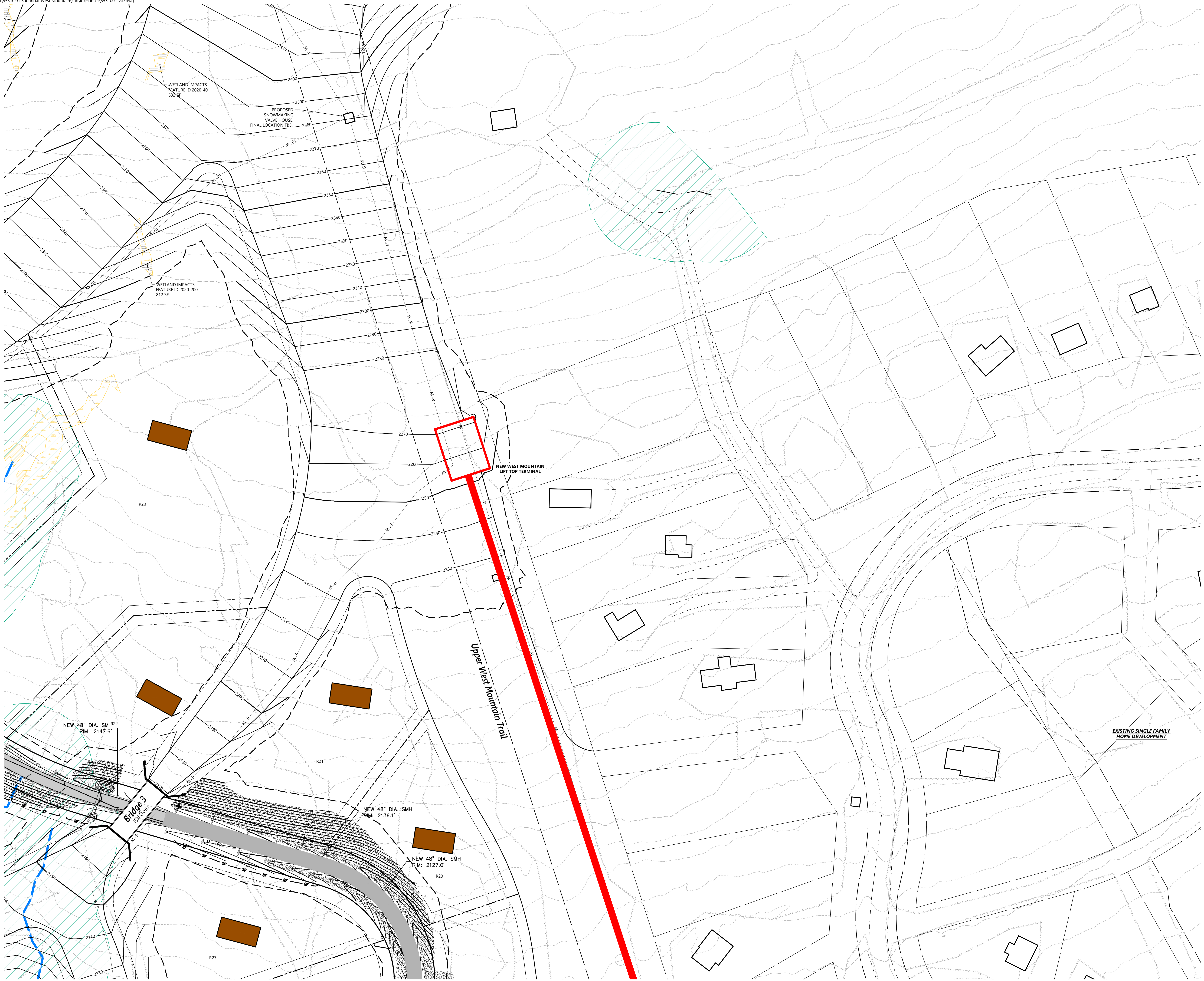
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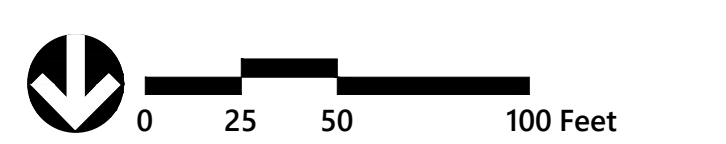
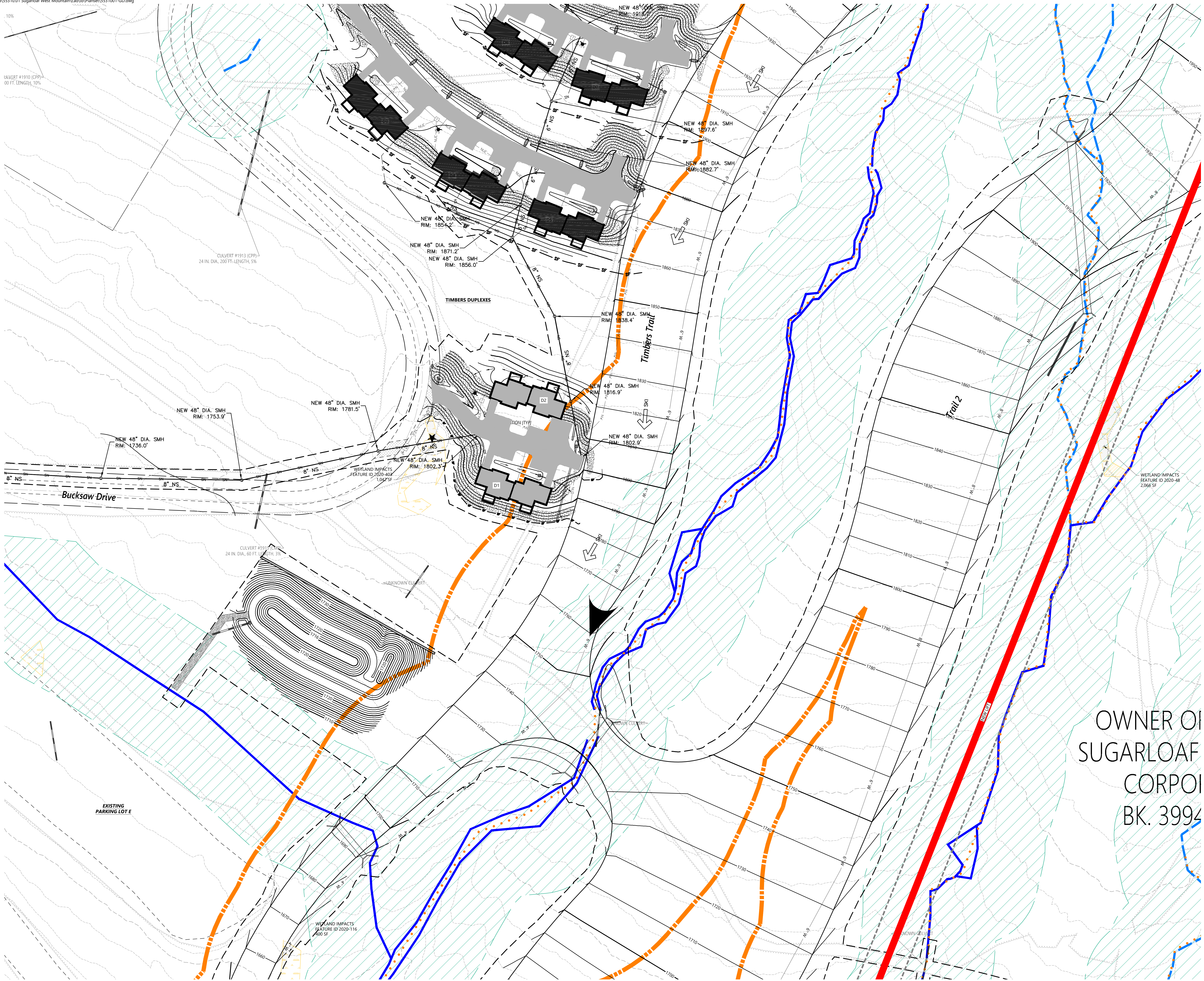
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**CG-1.08**  
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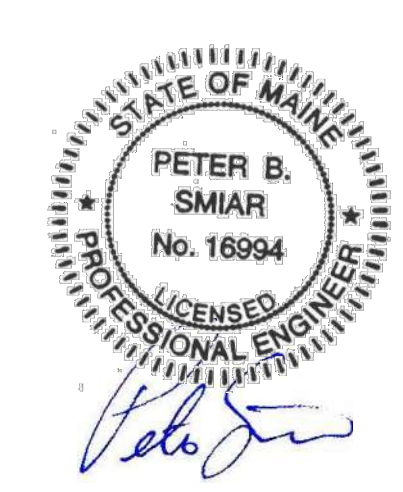
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BK. 3994

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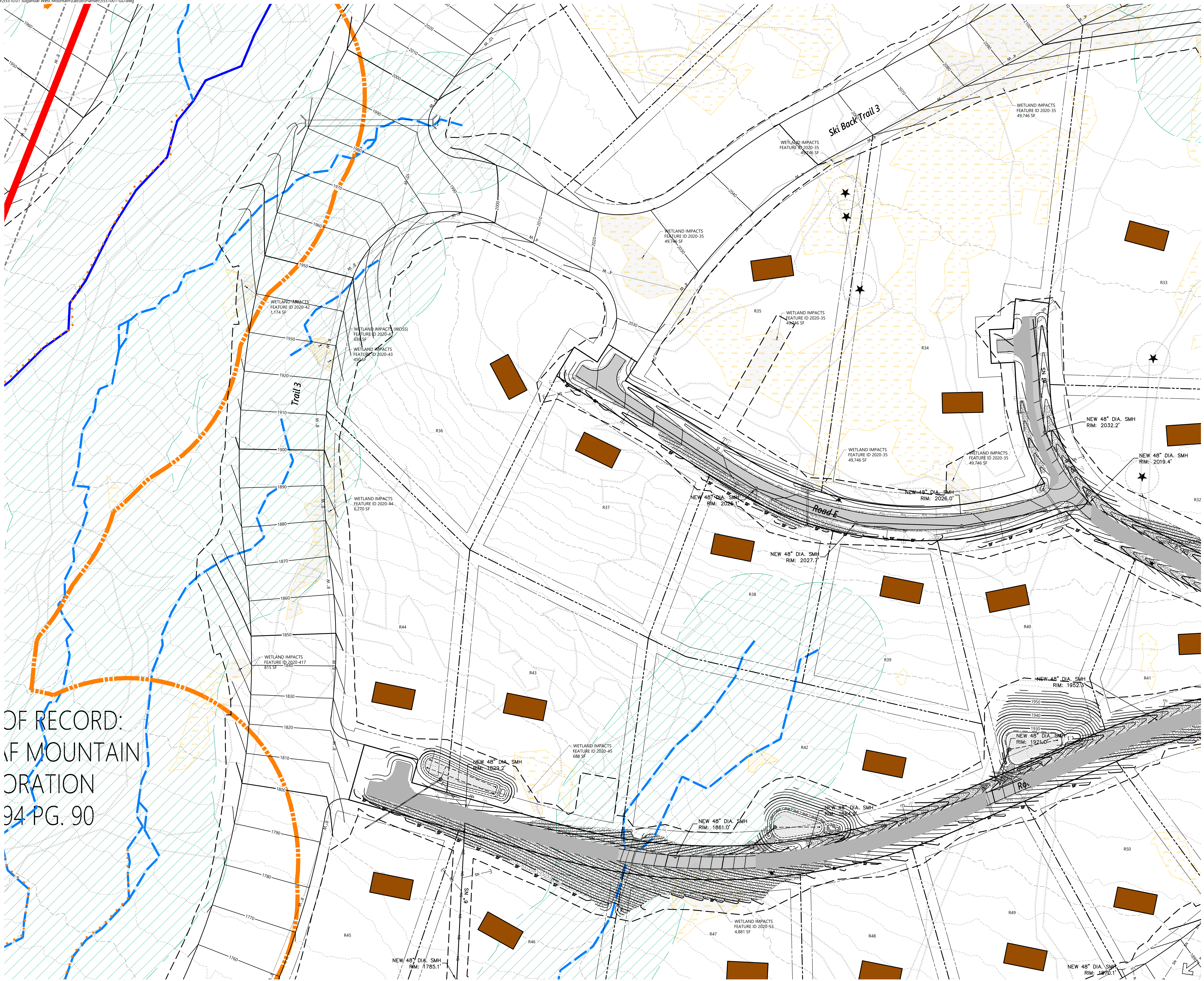
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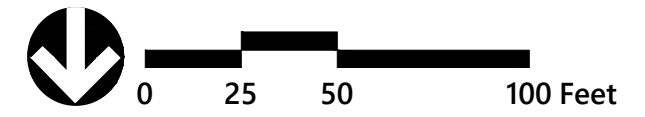


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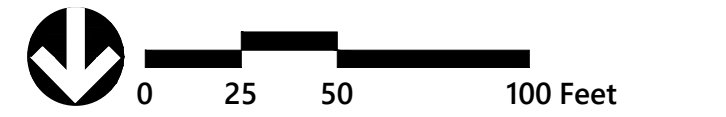
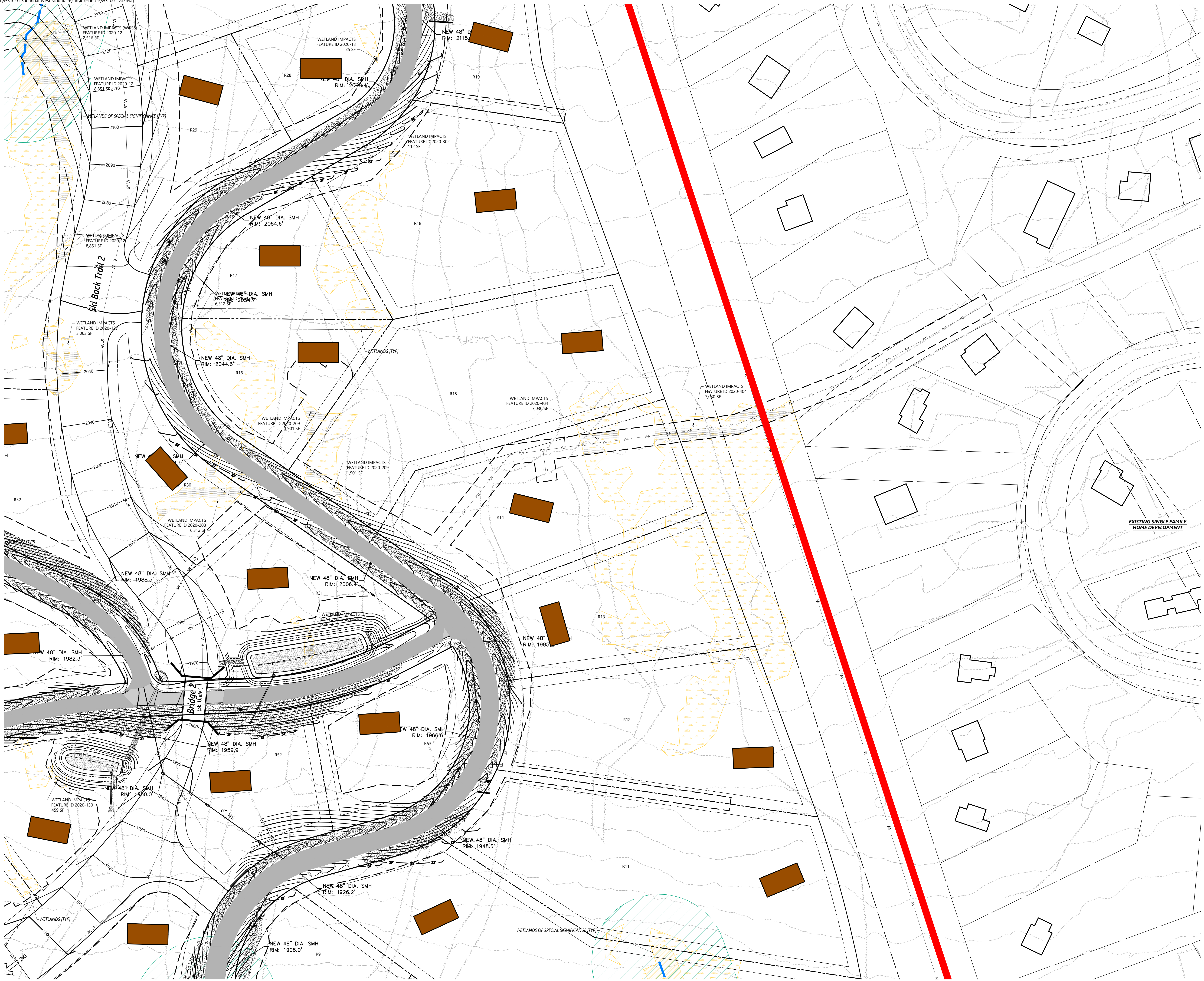
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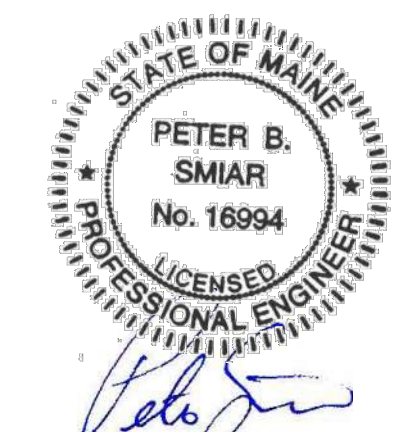
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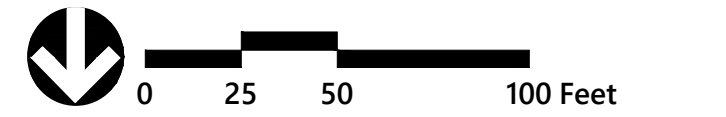
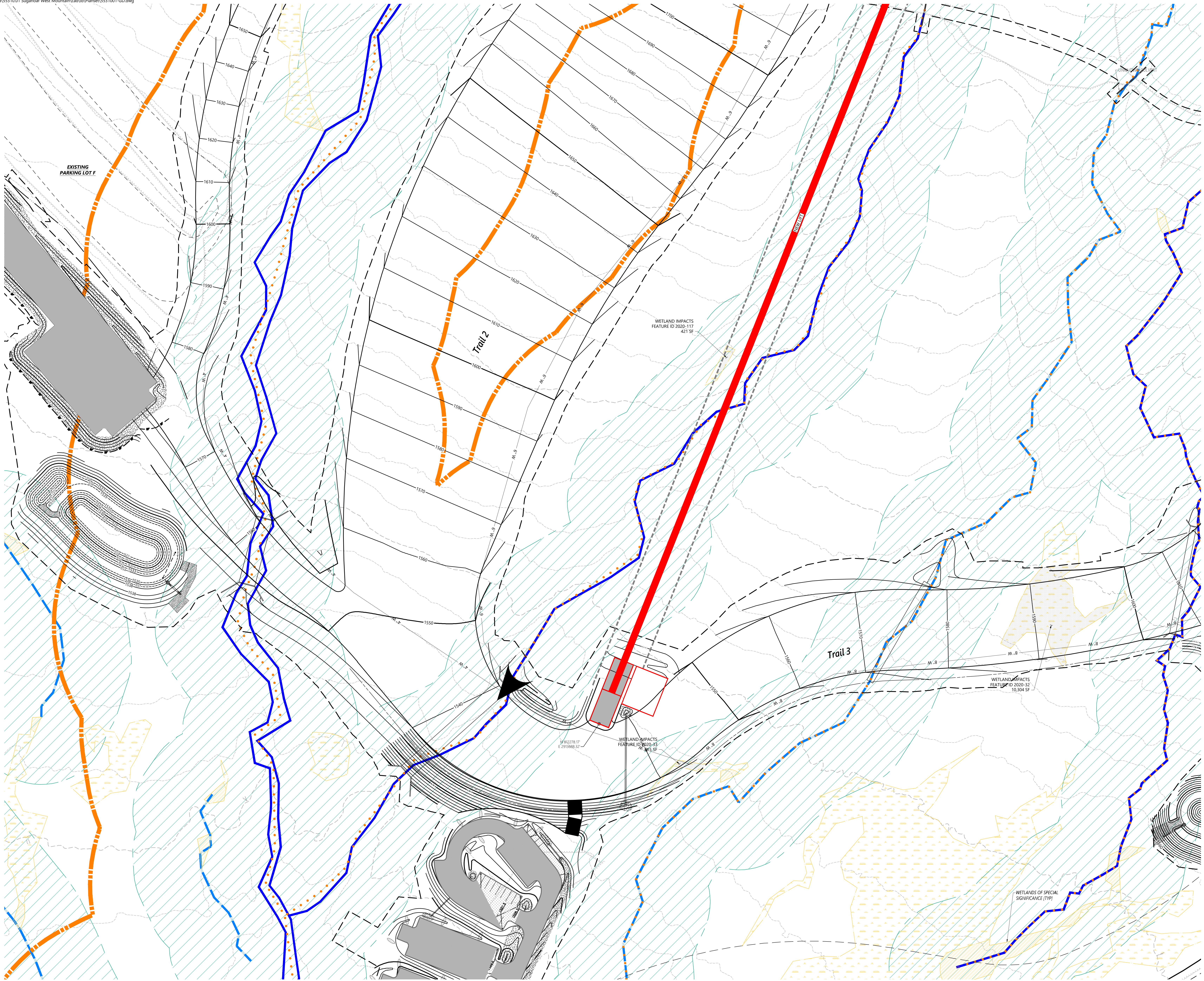
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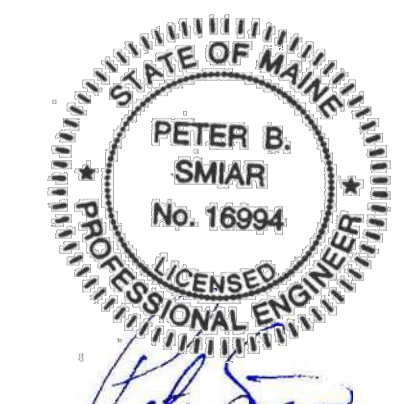


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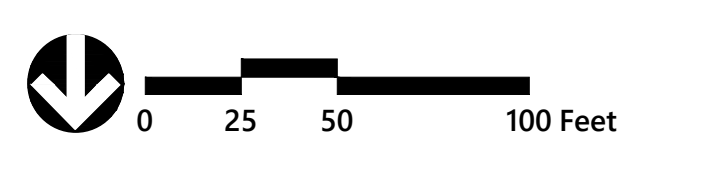
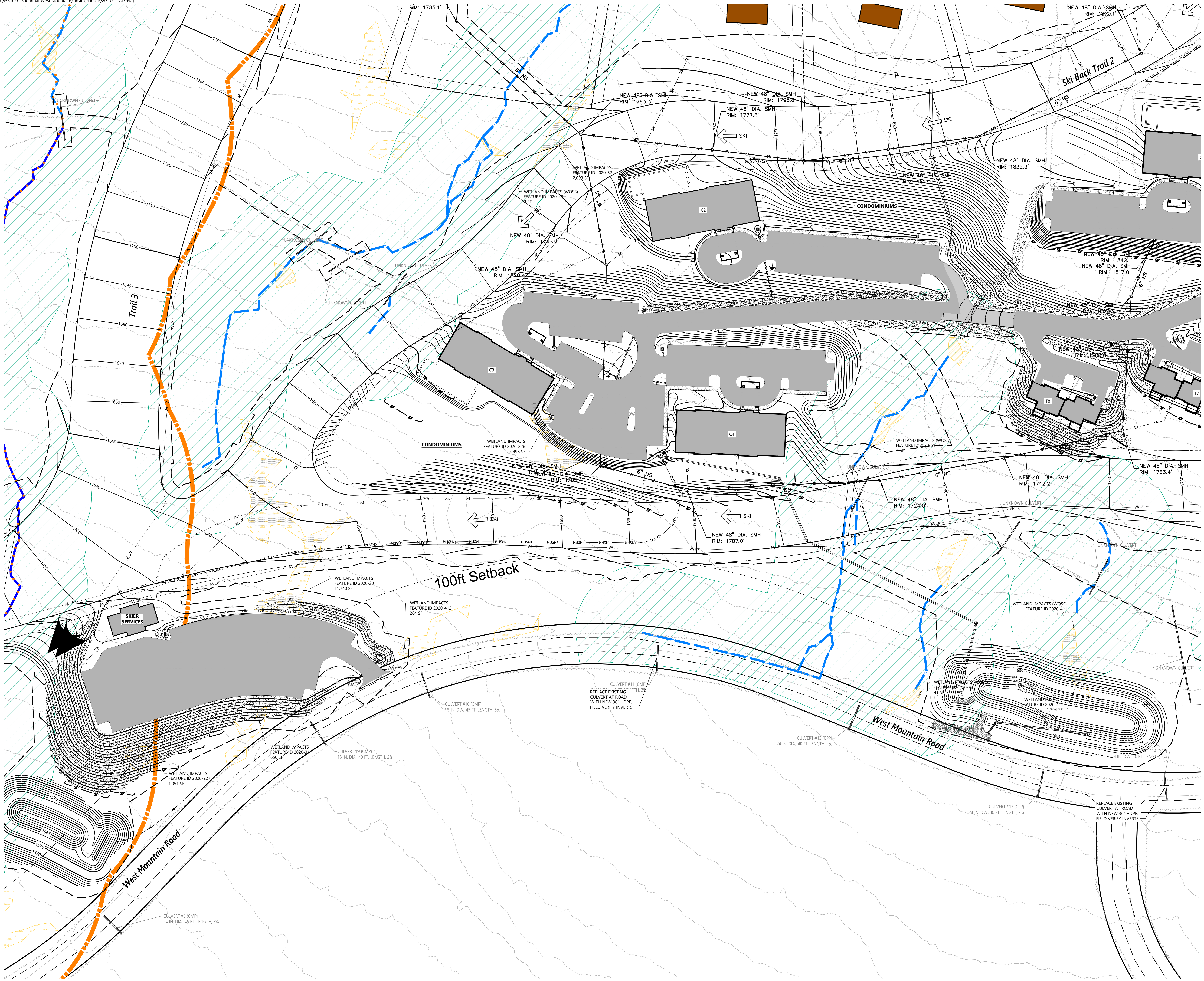
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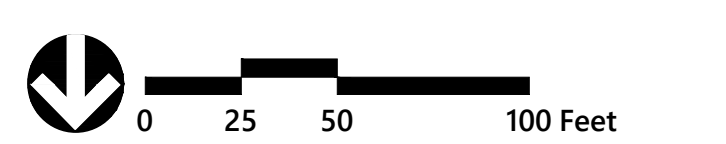
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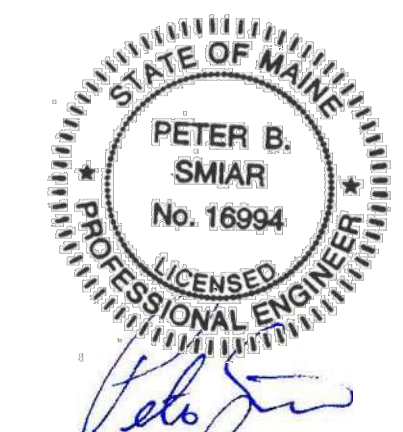


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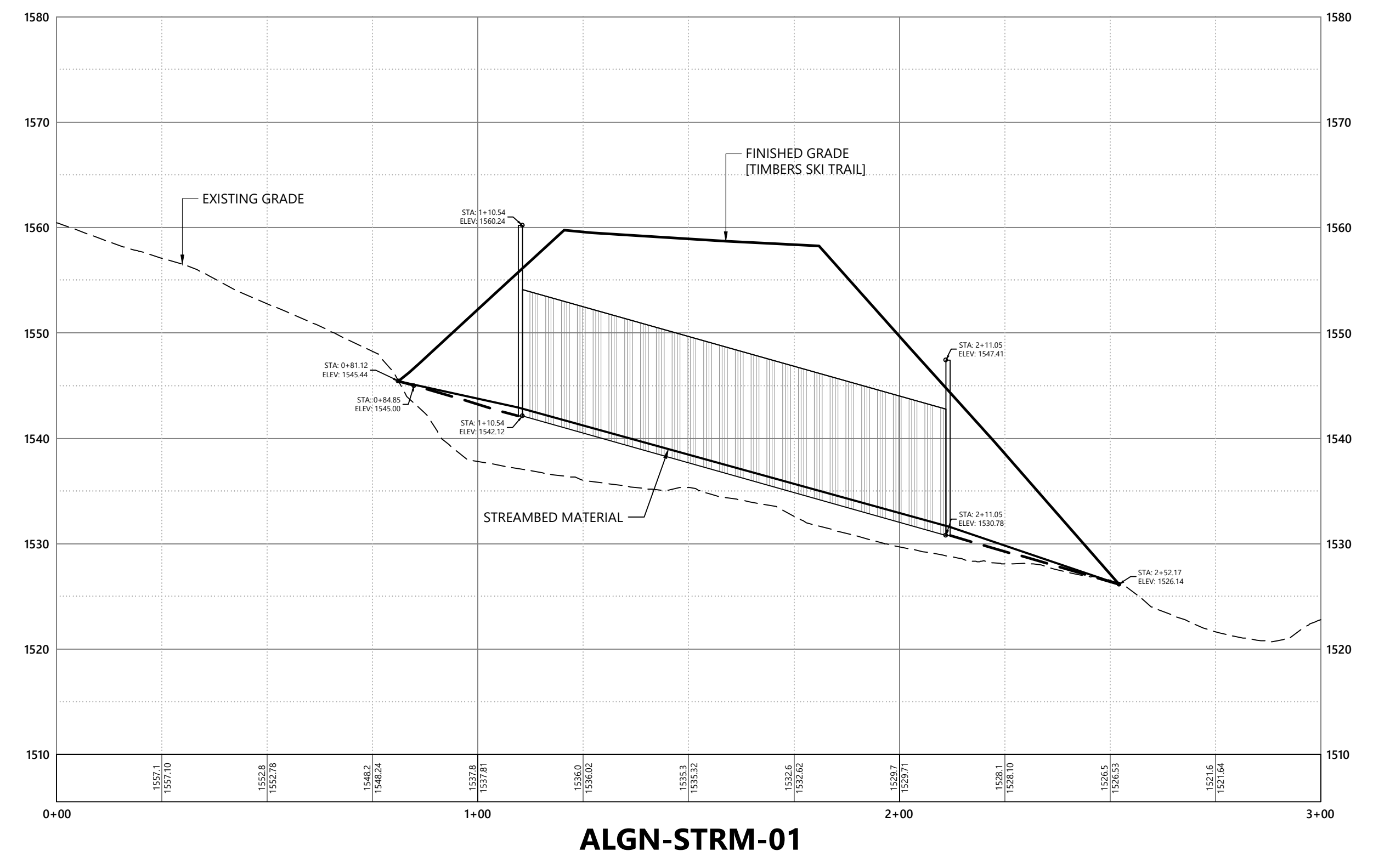
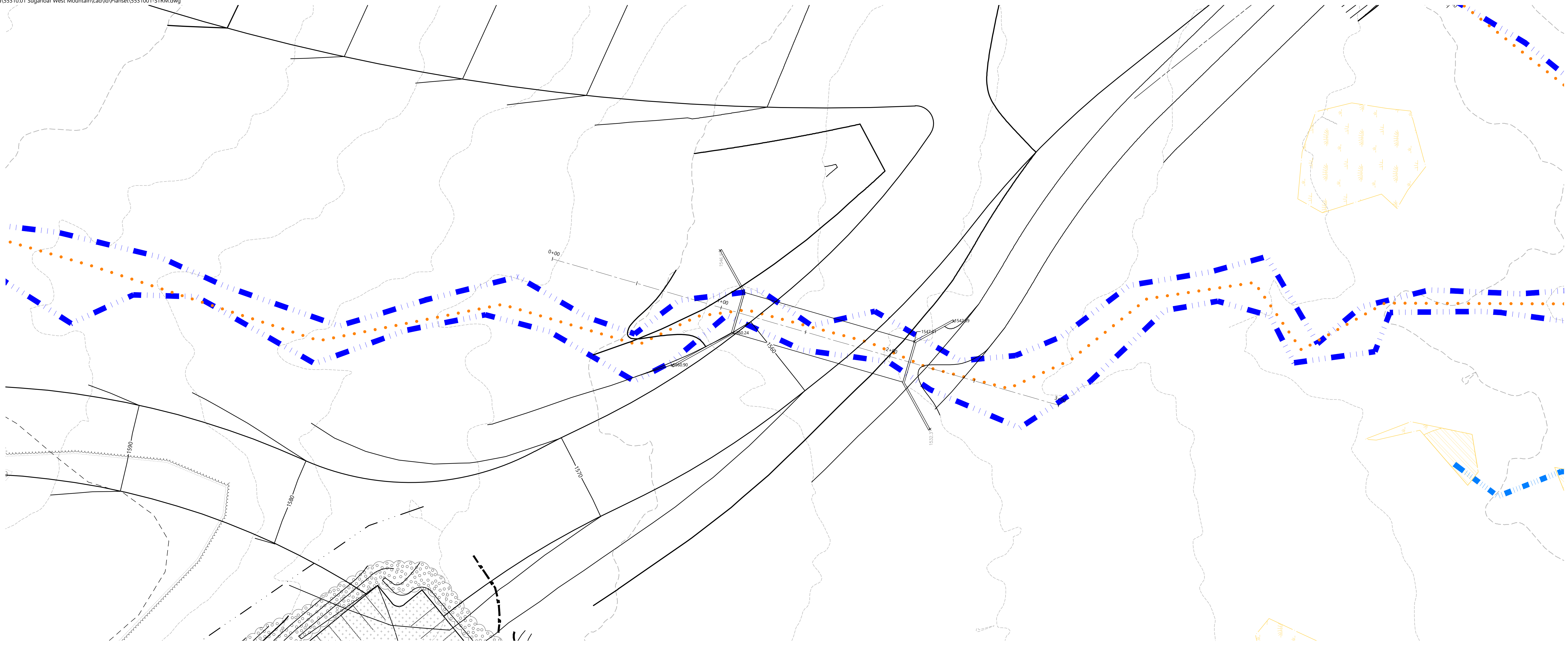


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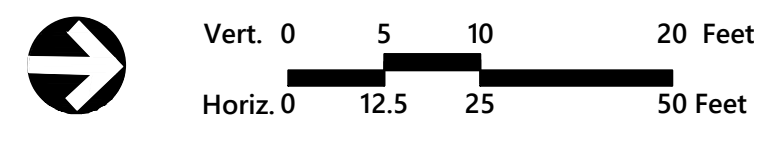




**STREAM CROSSING 1**

**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	100.51± Feet
PIPE DIMENSIONS	24' SPAN X 12' RISE
UPSTREAM INVERT	1542.12± Feet
DOWNSTREAM INVERT	1530.78± Feet
SLOPE	0.11 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

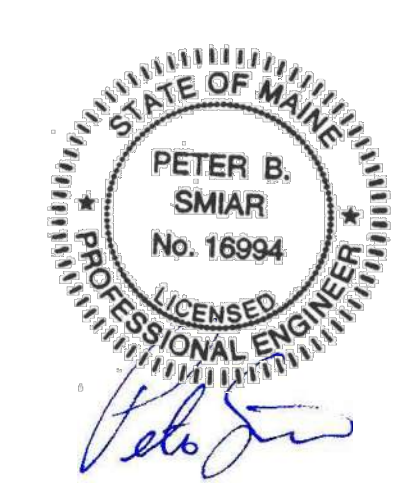


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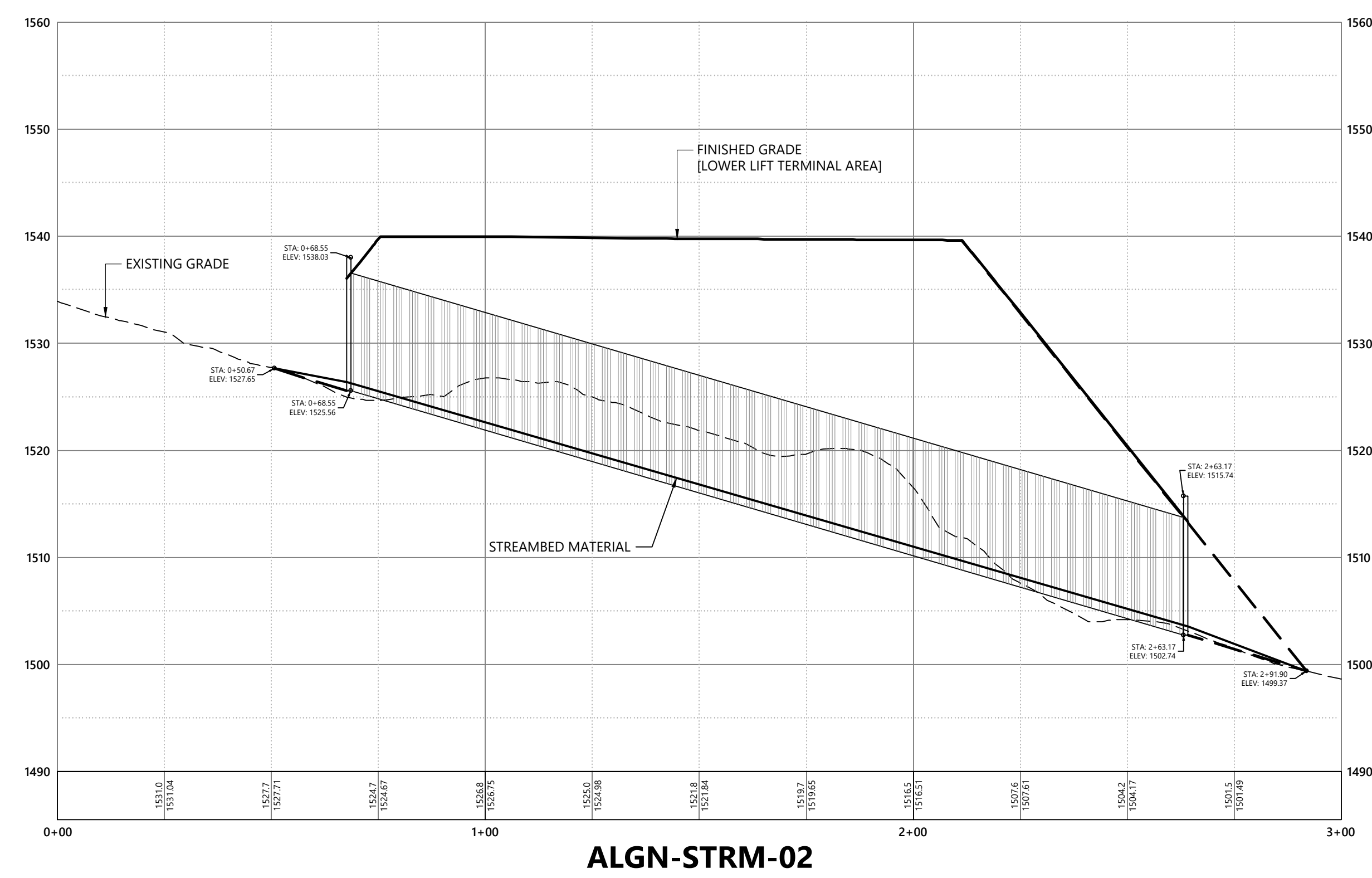
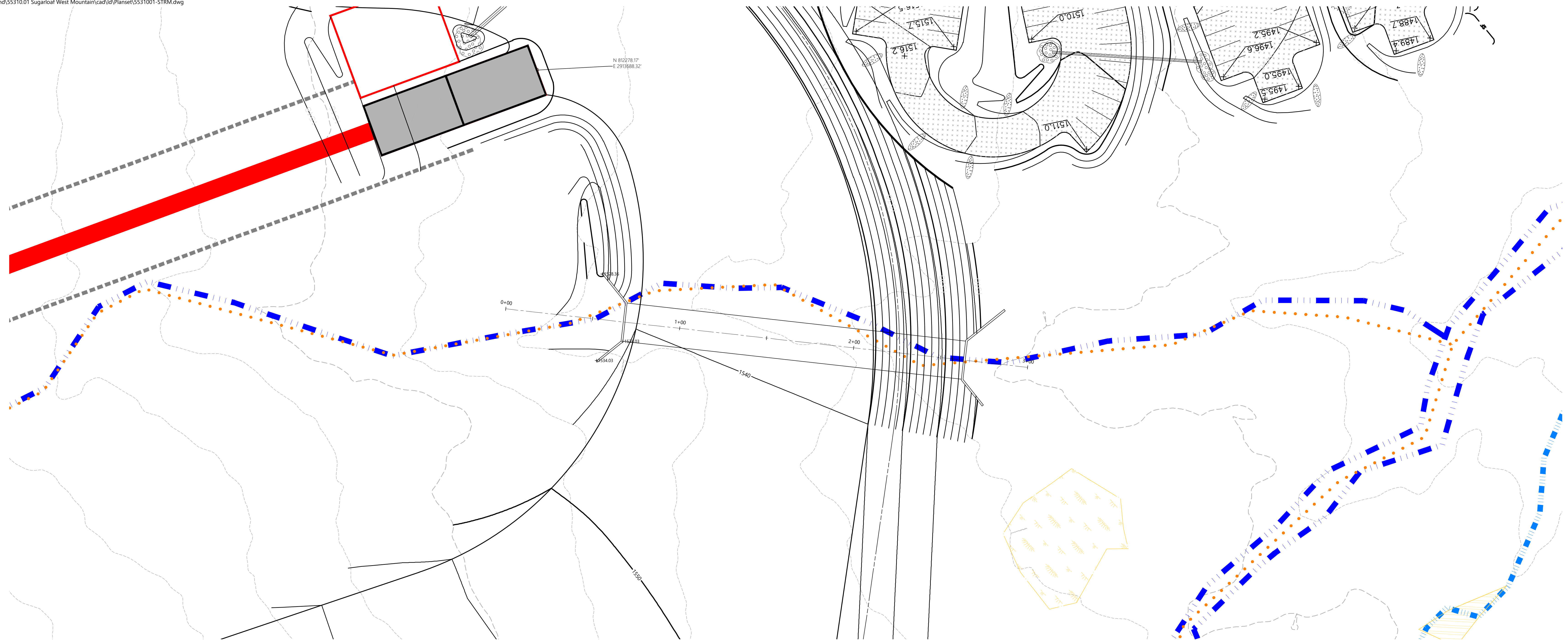
**Not For Construction**  
Drawing Title: **Stream Crossing Plan and Profile**



**PETER B. SMIAR**  
No. 16994  
LICENSED PROFESSIONAL ENGINEER

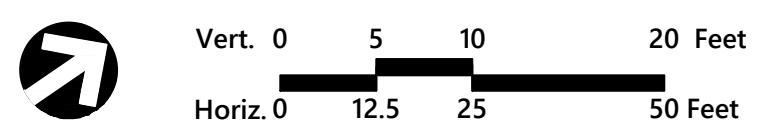
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**STREAM CROSSING 2**  
**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	194.62± Feet
PIPE DIMENSIONS	22' SPAN X 11' RISE
UPSTREAM INVERT	1525.56± Feet
DOWNSTREAM INVERT	1502.74± Feet
SLOPE	0.12 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

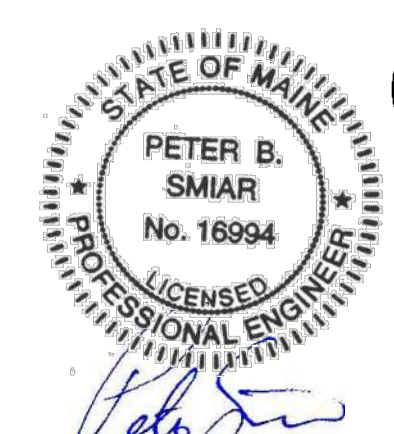


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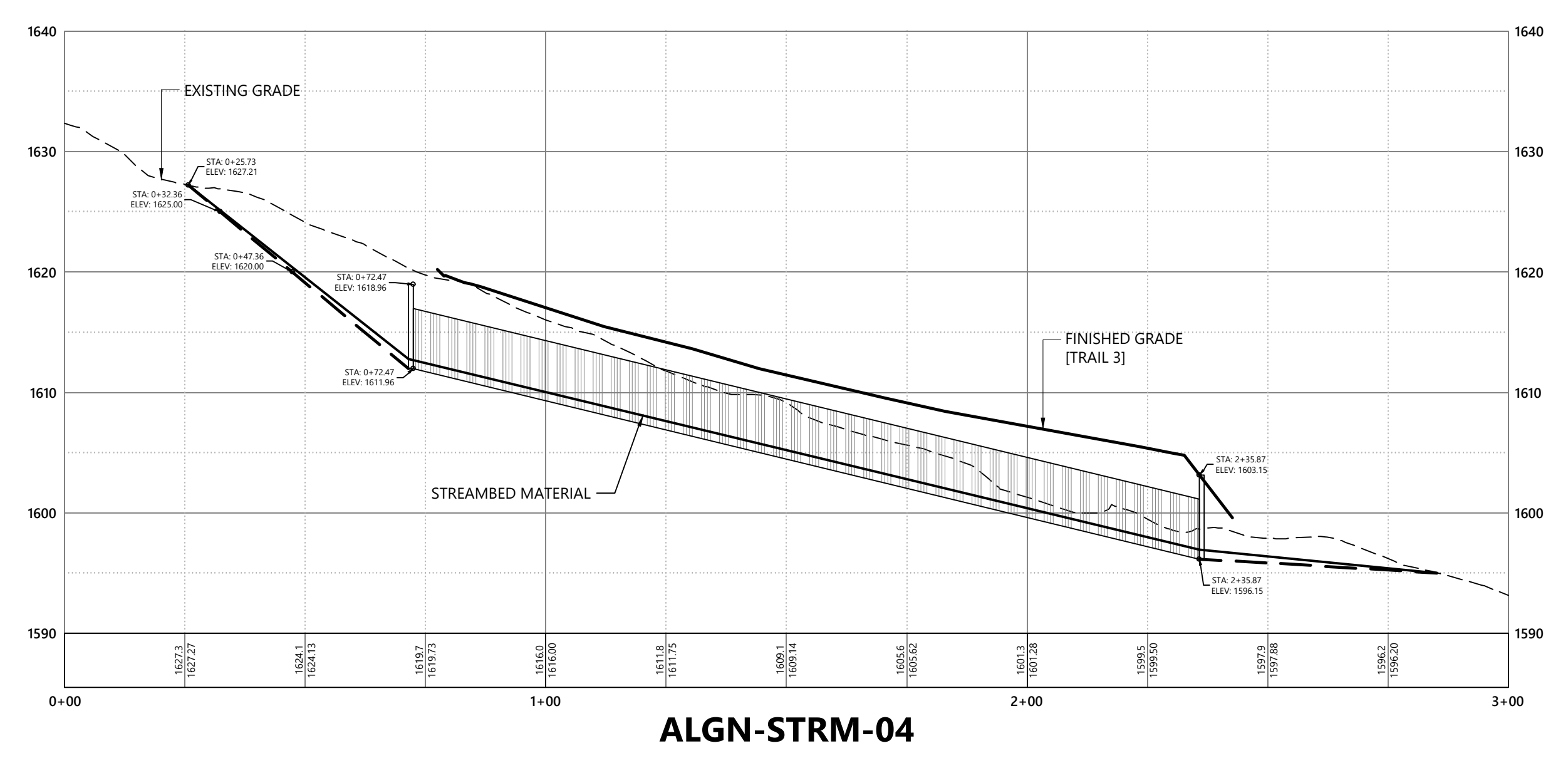
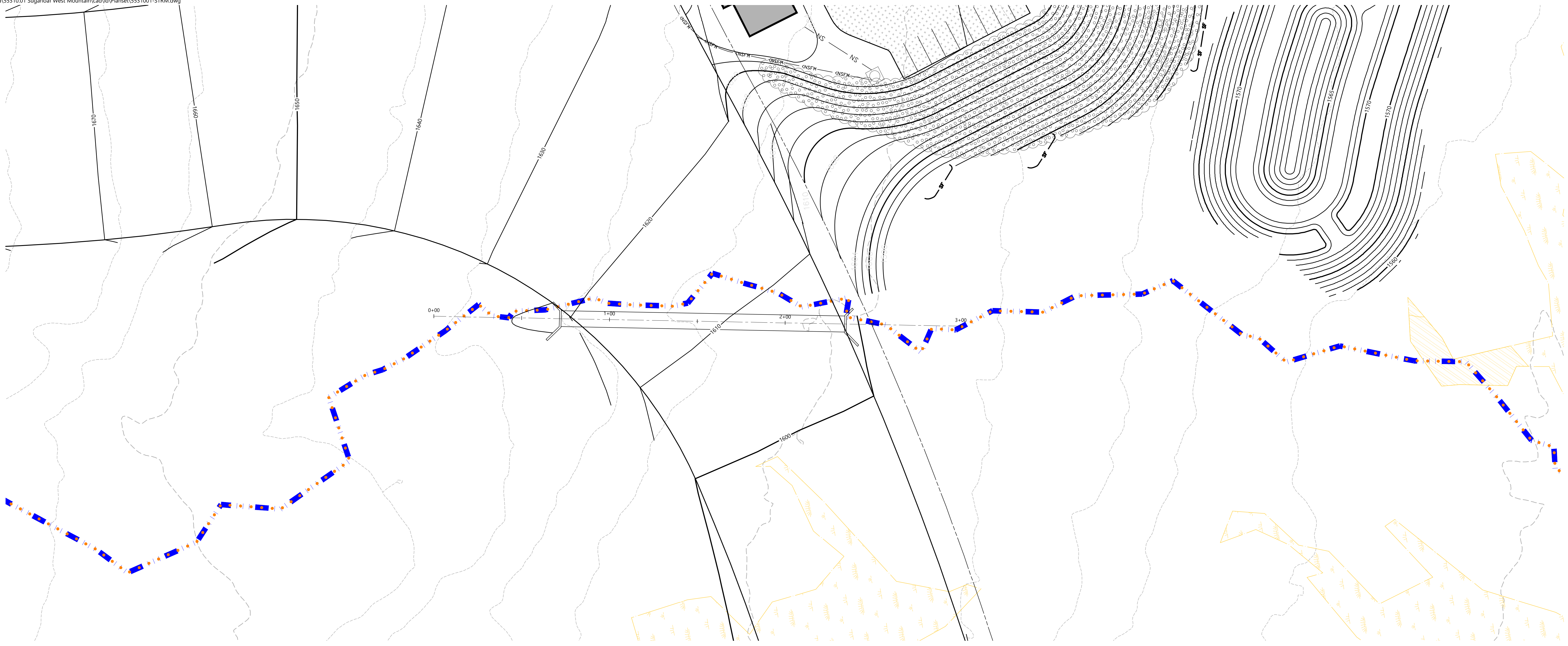


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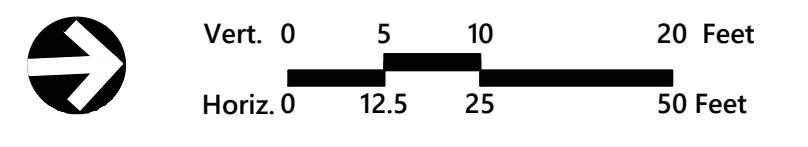






**STREAM CROSSING 4**  
**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	163.40± Feet
PIPE DIMENSIONS	9' SPAN X 5' RISE
UPSTREAM INVERT	1611.96± Feet
DOWNSTREAM INVERT	1596.15± Feet
SLOPE	0.10 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

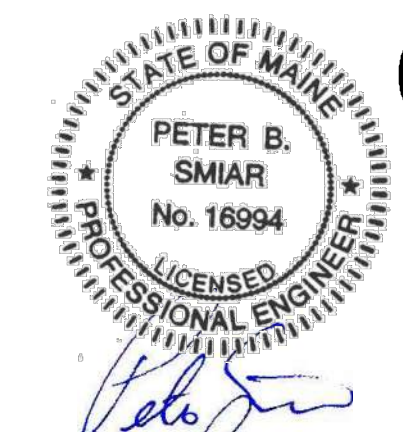


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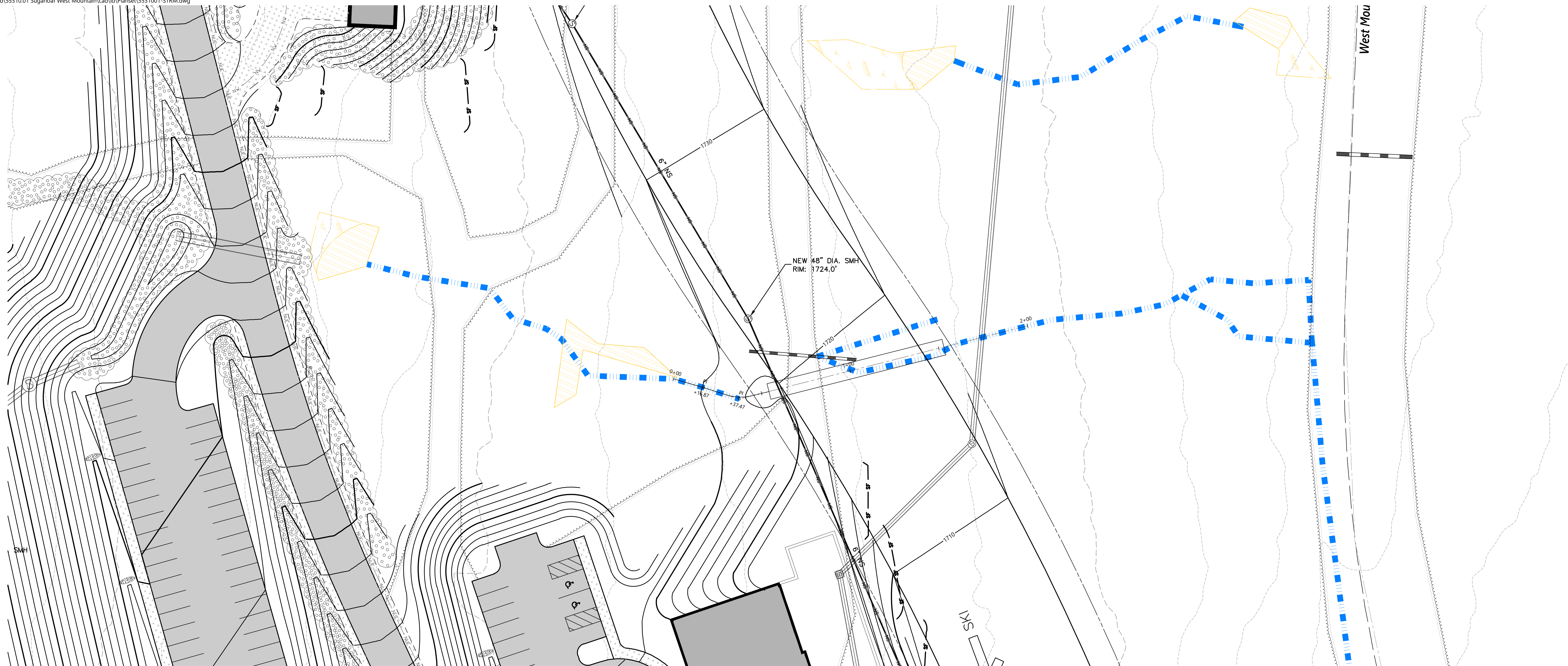
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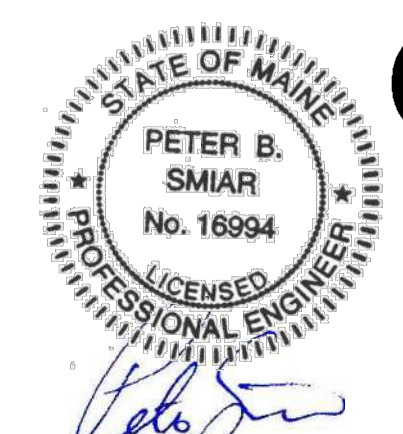
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Profile**

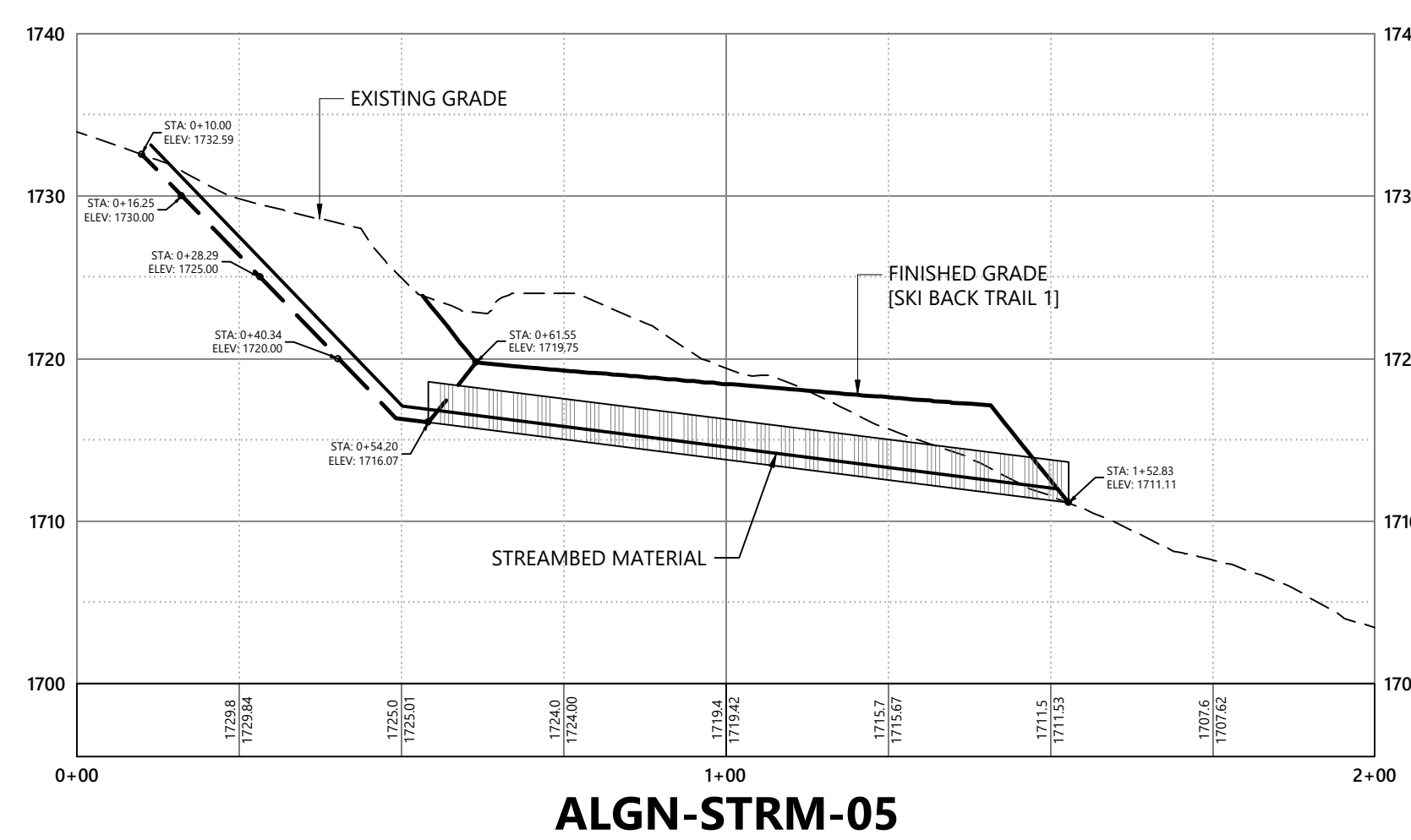
Drawing Title



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**STREAM CROSSING 5**

**BOX**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	98.63± Feet
PIPE DIMENSIONS	8.75' SPAN X 2.50' RISE
UPSTREAM INVERT	1716.07± Feet
DOWNSTREAM INVERT	1711.11± Feet
SLOPE	0.05 FT/FT
WINGWALLS	N/A
UPSTREAM ENDWALL DIMENSION	N/A
DOWNSTREAM ENDWALL DIMENSION	N/A





### STREAM CROSSING 6A

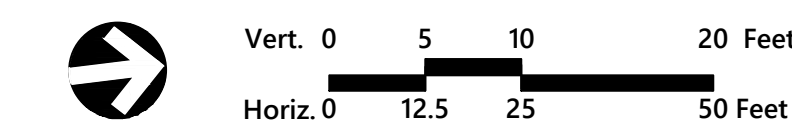
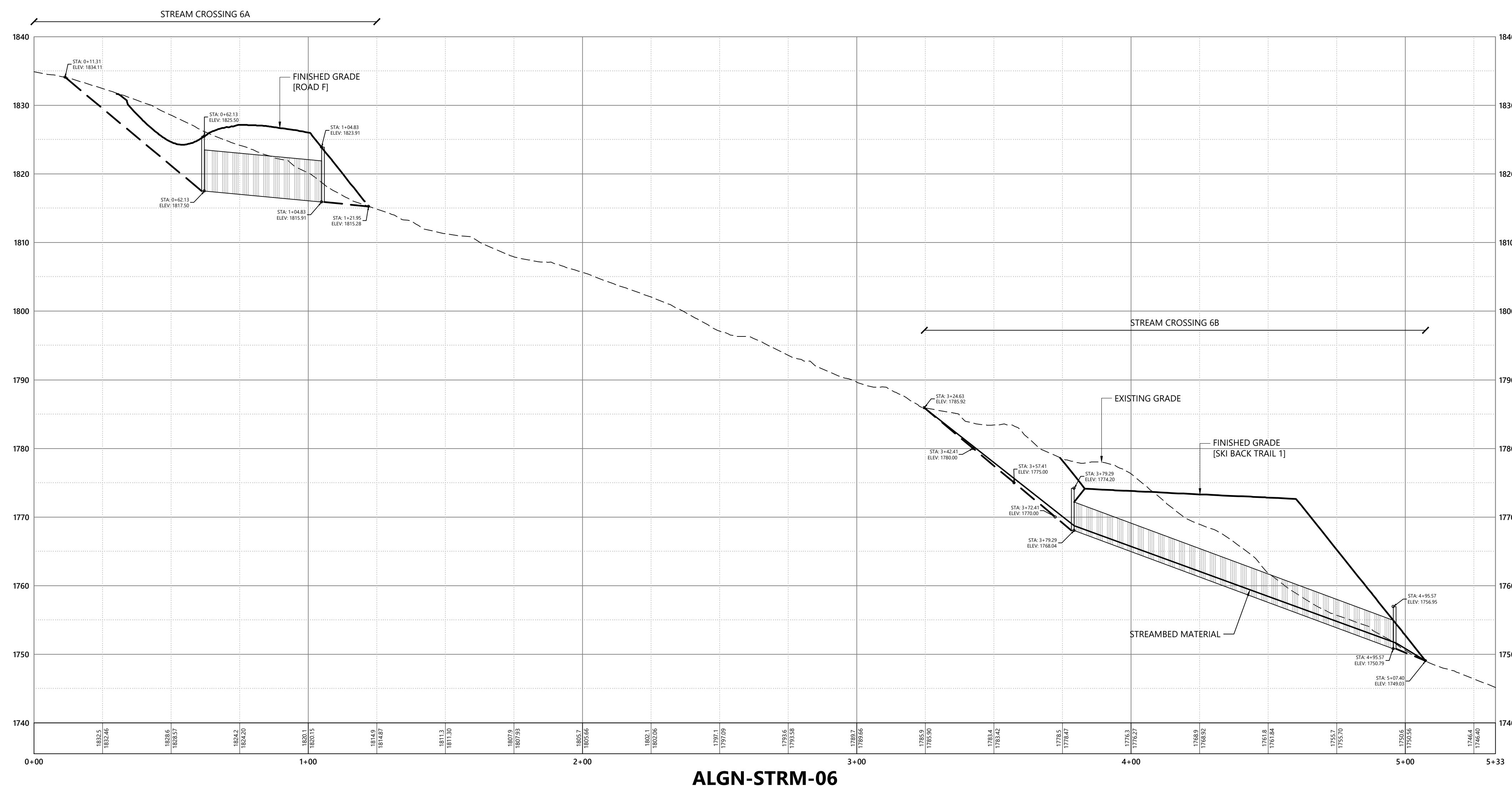
#### SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	12
PIPE LENGTH	42.70± Feet
PIPE DIMENSIONS	6' SPAN X 3.2' RISE
UPSTREAM INVERT	1817.50± Feet
DOWNSTREAM INVERT	1815.91± Feet
SLOPE	0.04 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

### STREAM CROSSING 6B

#### SINGLE RADIUS ARCH

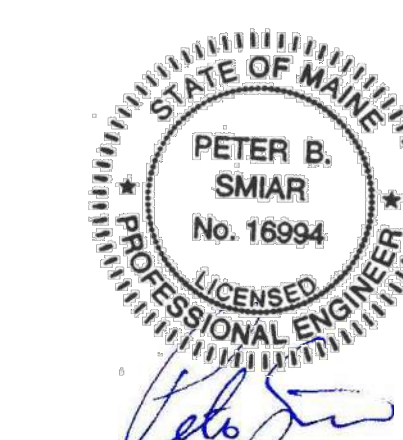
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	116.28± Feet
PIPE DIMENSIONS	8' SPAN X 4.2' RISE
UPSTREAM INVERT	1768.04± Feet
DOWNSTREAM INVERT	1750.79± Feet
SLOPE	0.15 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



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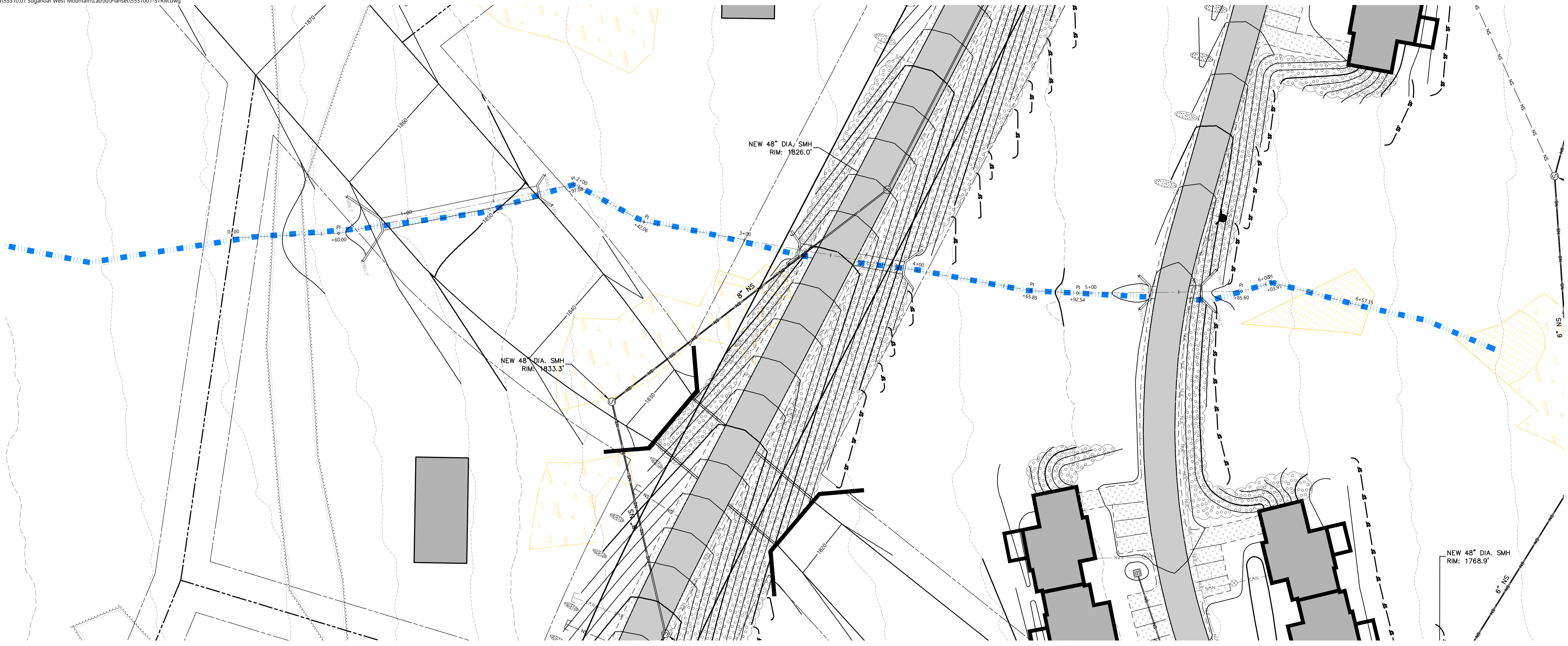
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**STREAM CROSSING 7A**

**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	90.40 ± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1850.79 ± Feet
DOWNSTREAM INVERT	1844.01 ± Feet
SLOPE	0.08 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

**STREAM CROSSING 7B**

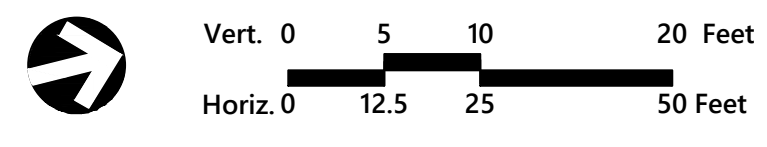
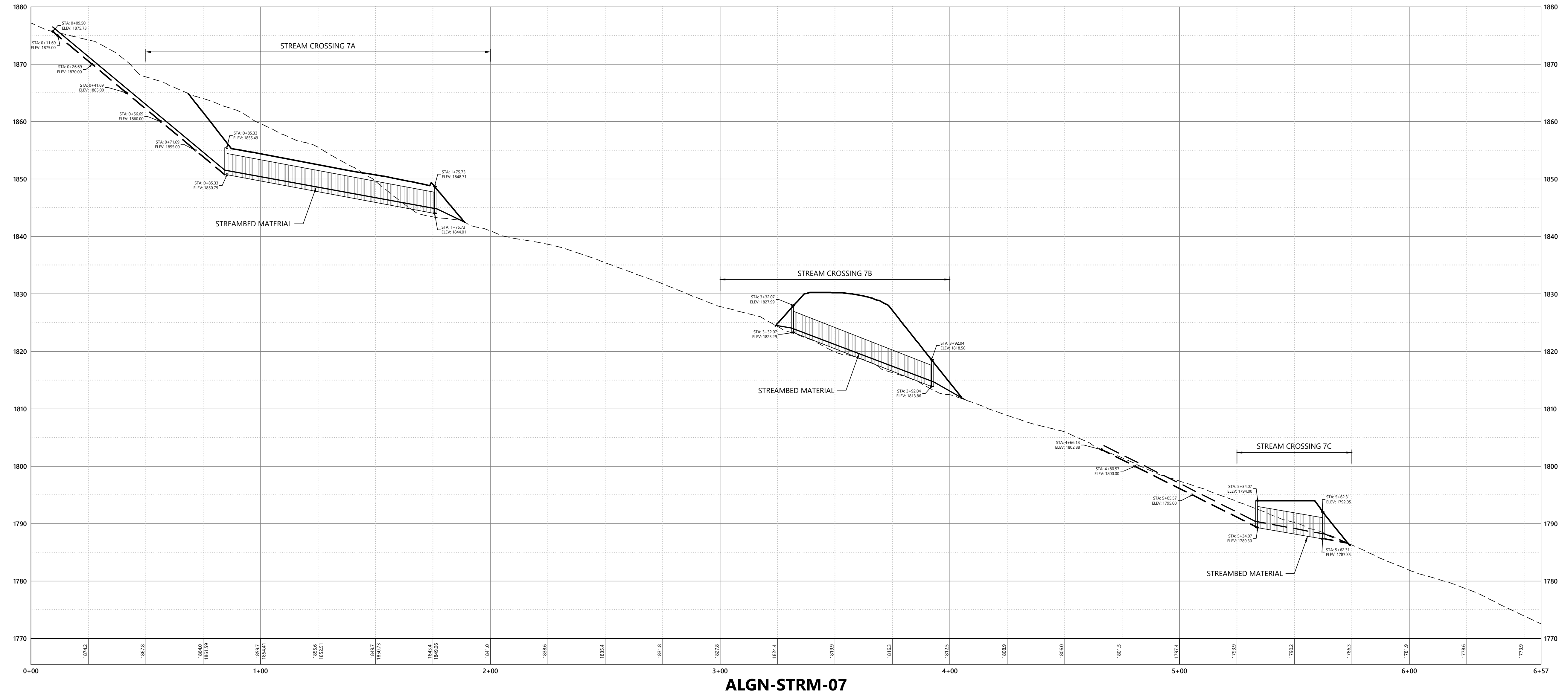
**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	59.97 ± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1823.29 ± Feet
DOWNSTREAM INVERT	1813.86 ± Feet
SLOPE	0.16 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

**STREAM CROSSING 7C**

**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	28.24 ± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1789.30 ± Feet
DOWNSTREAM INVERT	1787.35 ± Feet
SLOPE	0.07 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

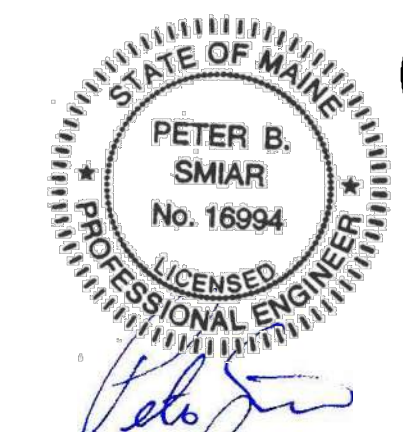


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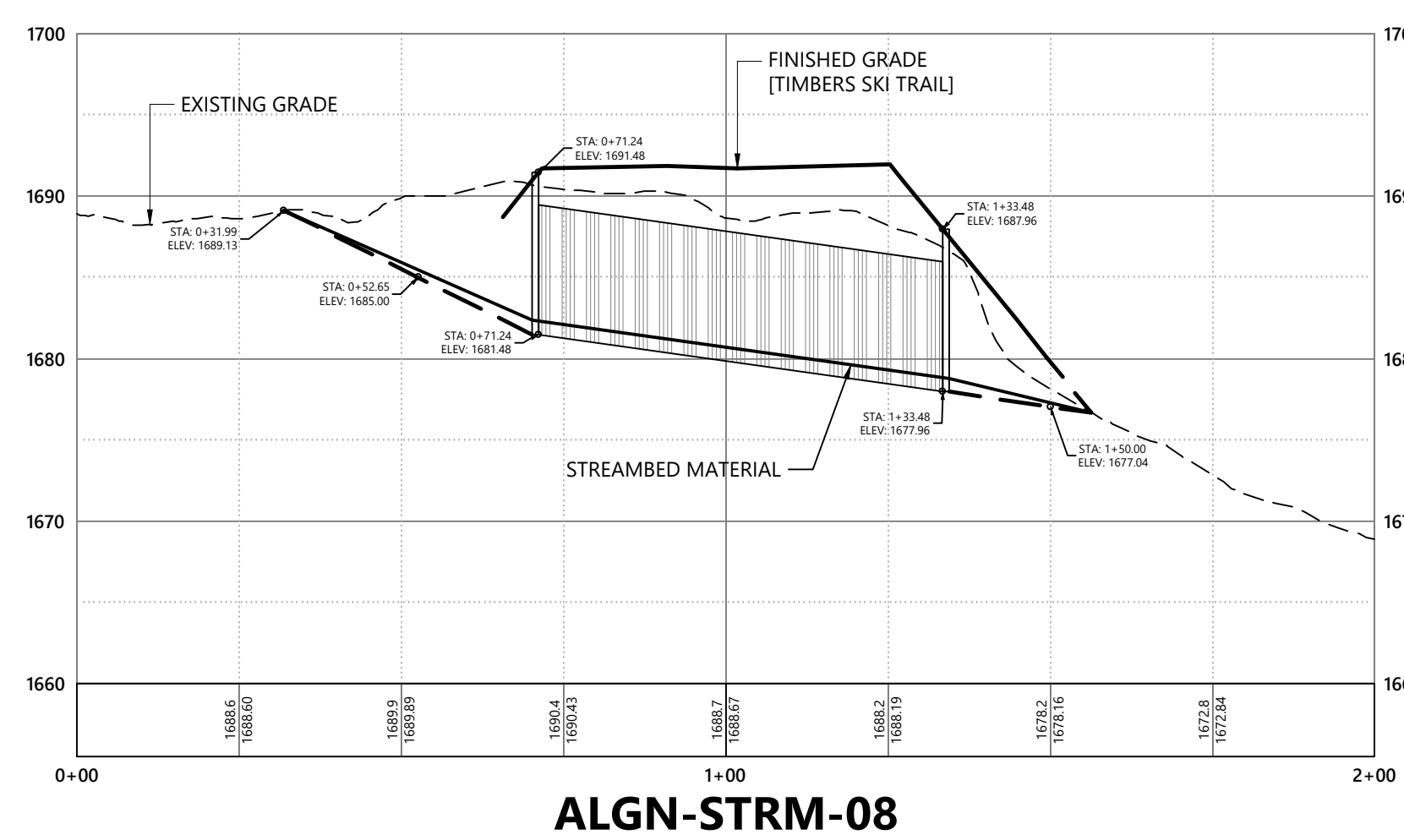
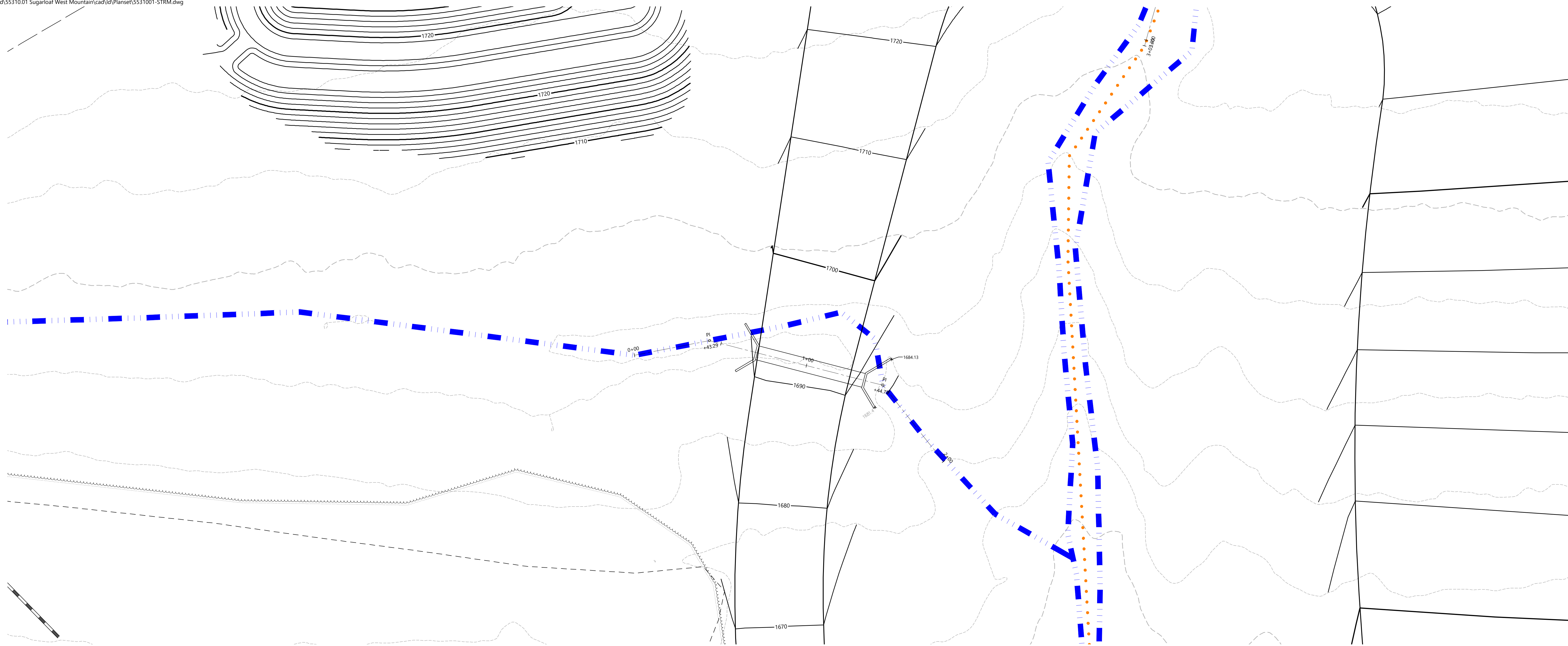
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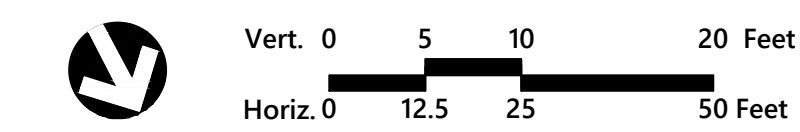




**STREAM CROSSING 8**

**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	62.24± Feet
PIPE DIMENSIONS	8' SPAN X 4.2' RISE
UPSTREAM INVERT	1681.48± Feet
DOWNSTREAM INVERT	1677.96± Feet
SLOPE	0.06 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

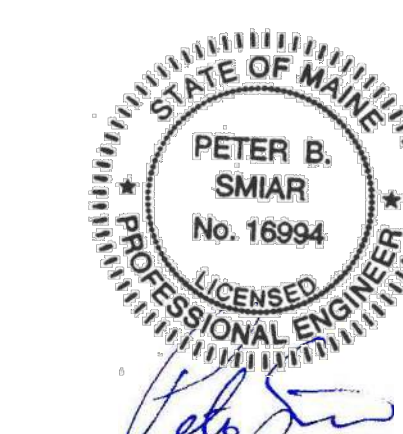


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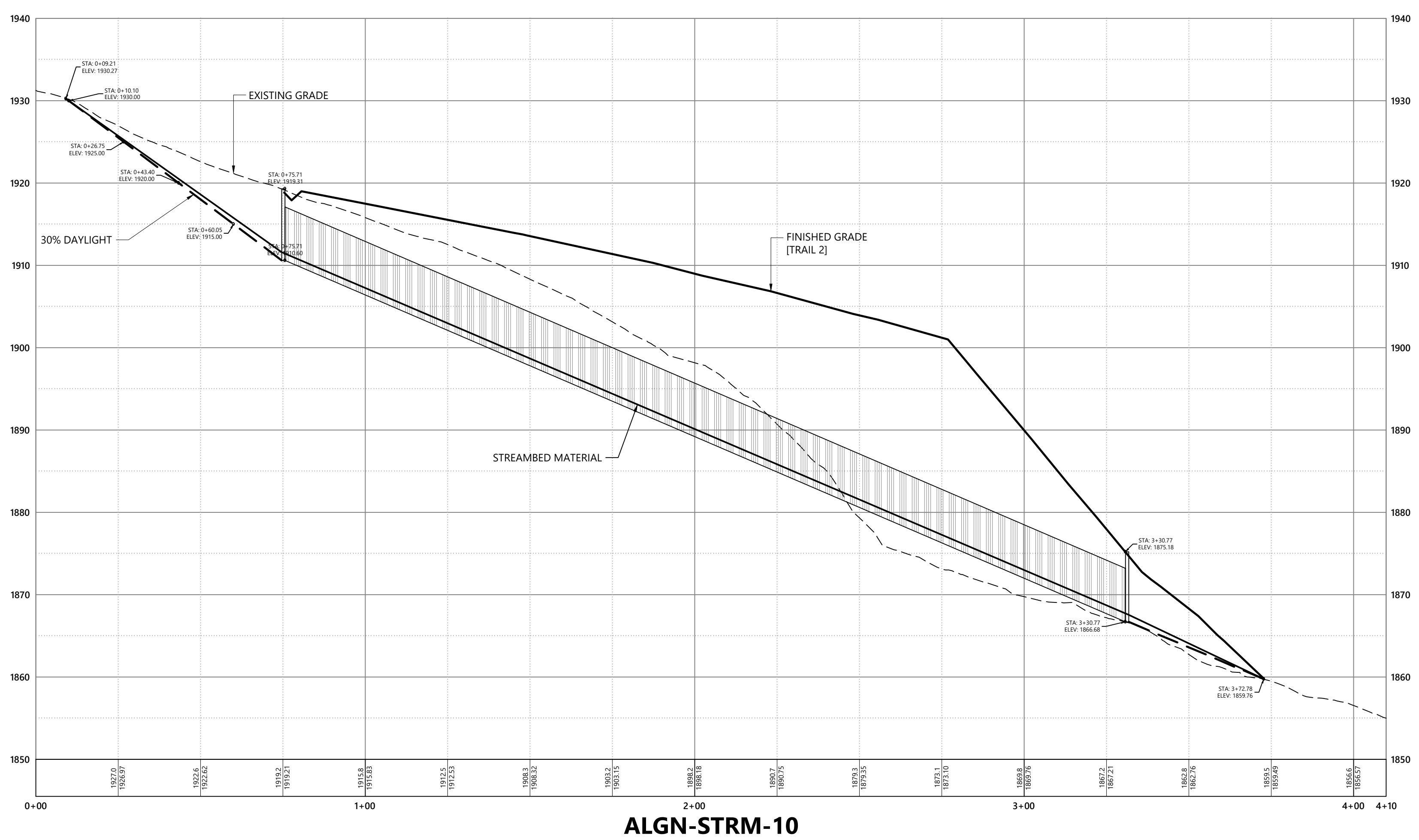
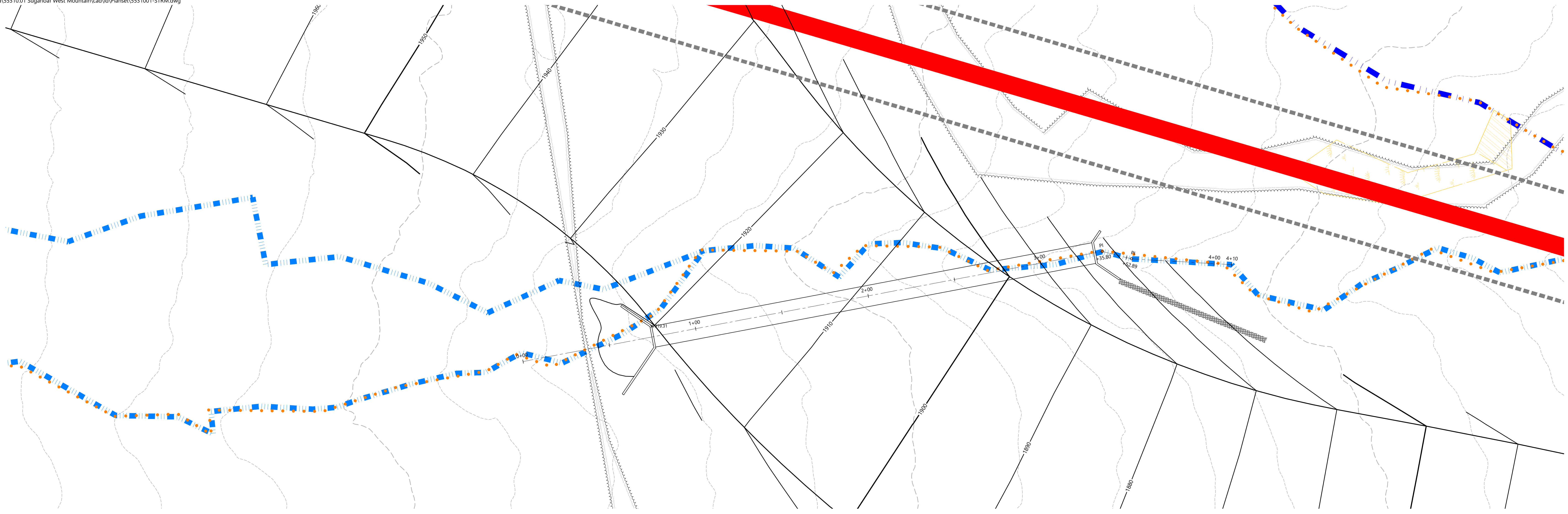


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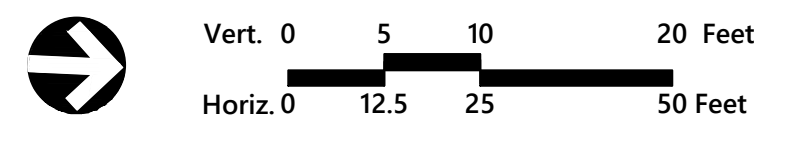






**STREAM CROSSING 10**  
**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	255.06± Feet
PIPE DIMENSIONS	12' SPAN X 6.5' RISE
UPSTREAM INVERT	1910.60± Feet
DOWNSTREAM INVERT	1866.68± Feet
SLOPE	0.17 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



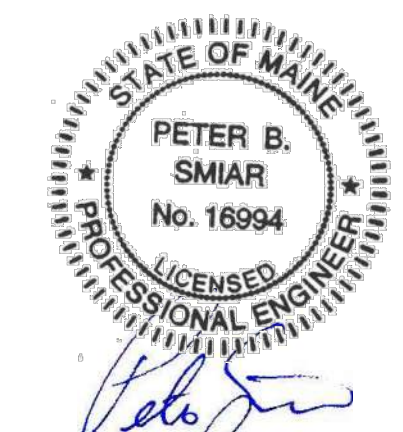
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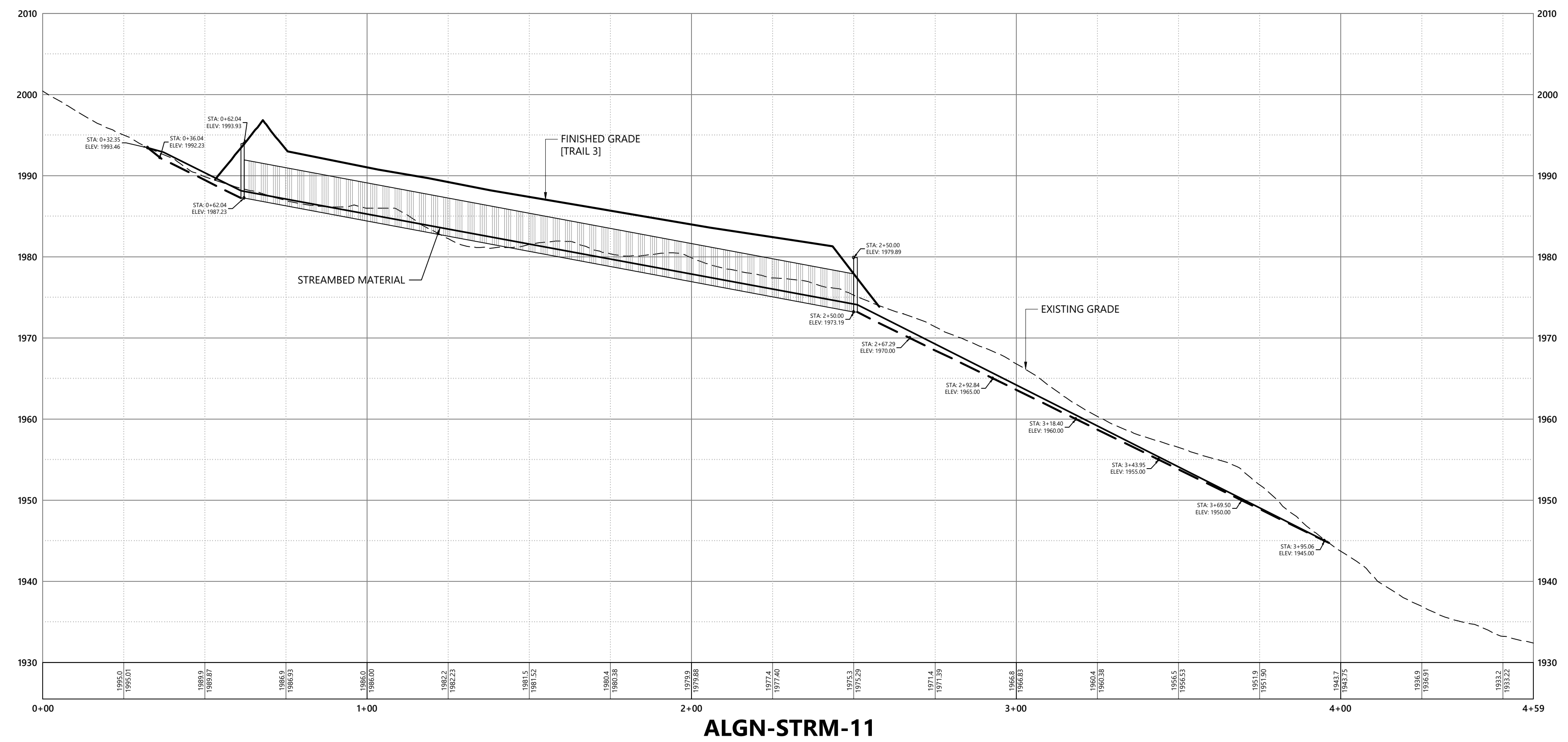
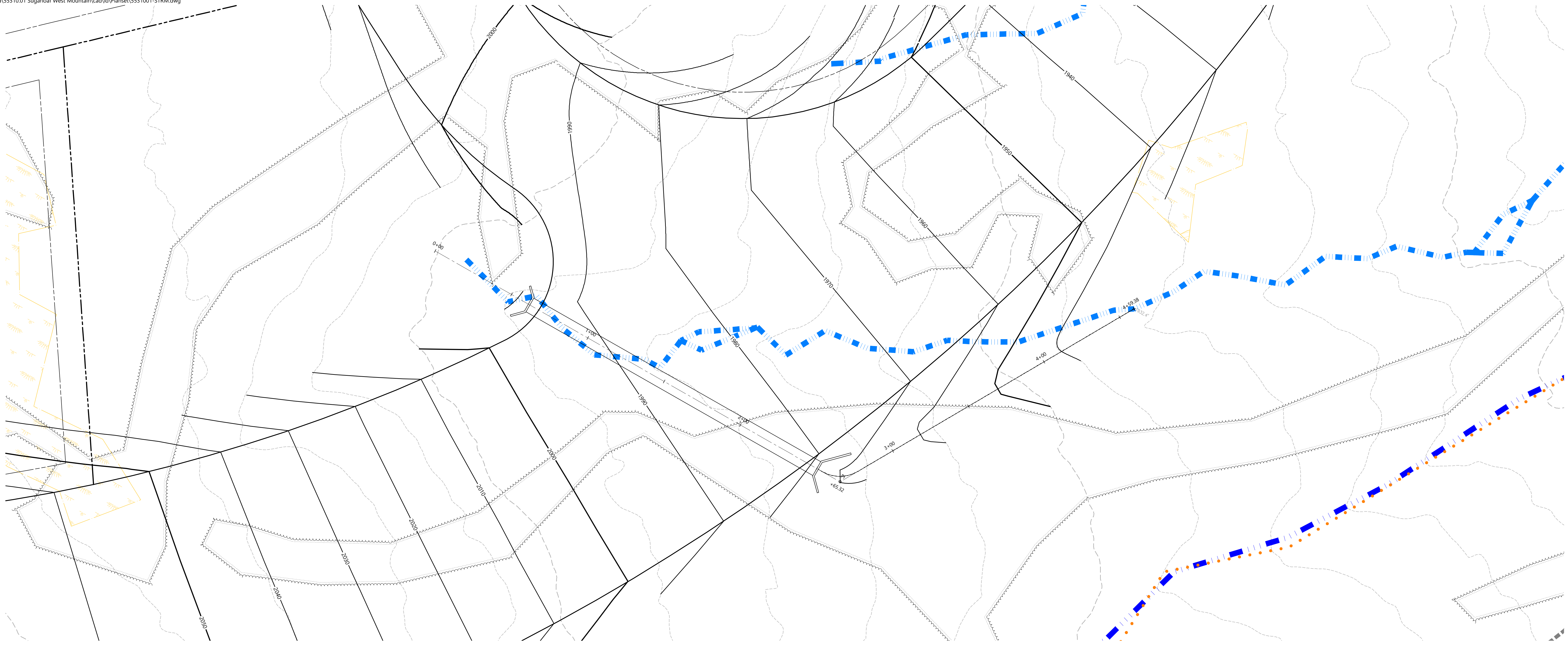
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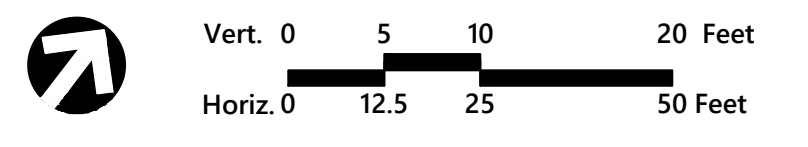






**STREAM CROSSING 11**  
**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	187.96± Feet
PIPE DIMENSIONS	9' SPAN X 4.7' RISE
UPSTREAM INVERT	1987.23± Feet
DOWNSTREAM INVERT	1973.19± Feet
SLOPE	0.07 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

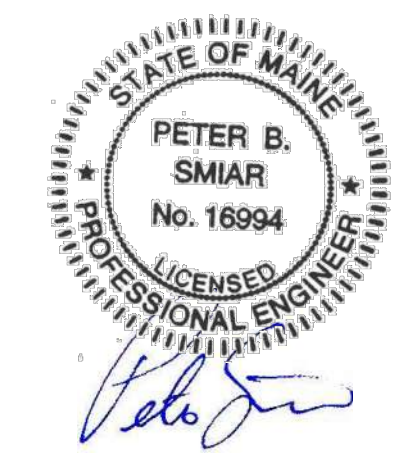


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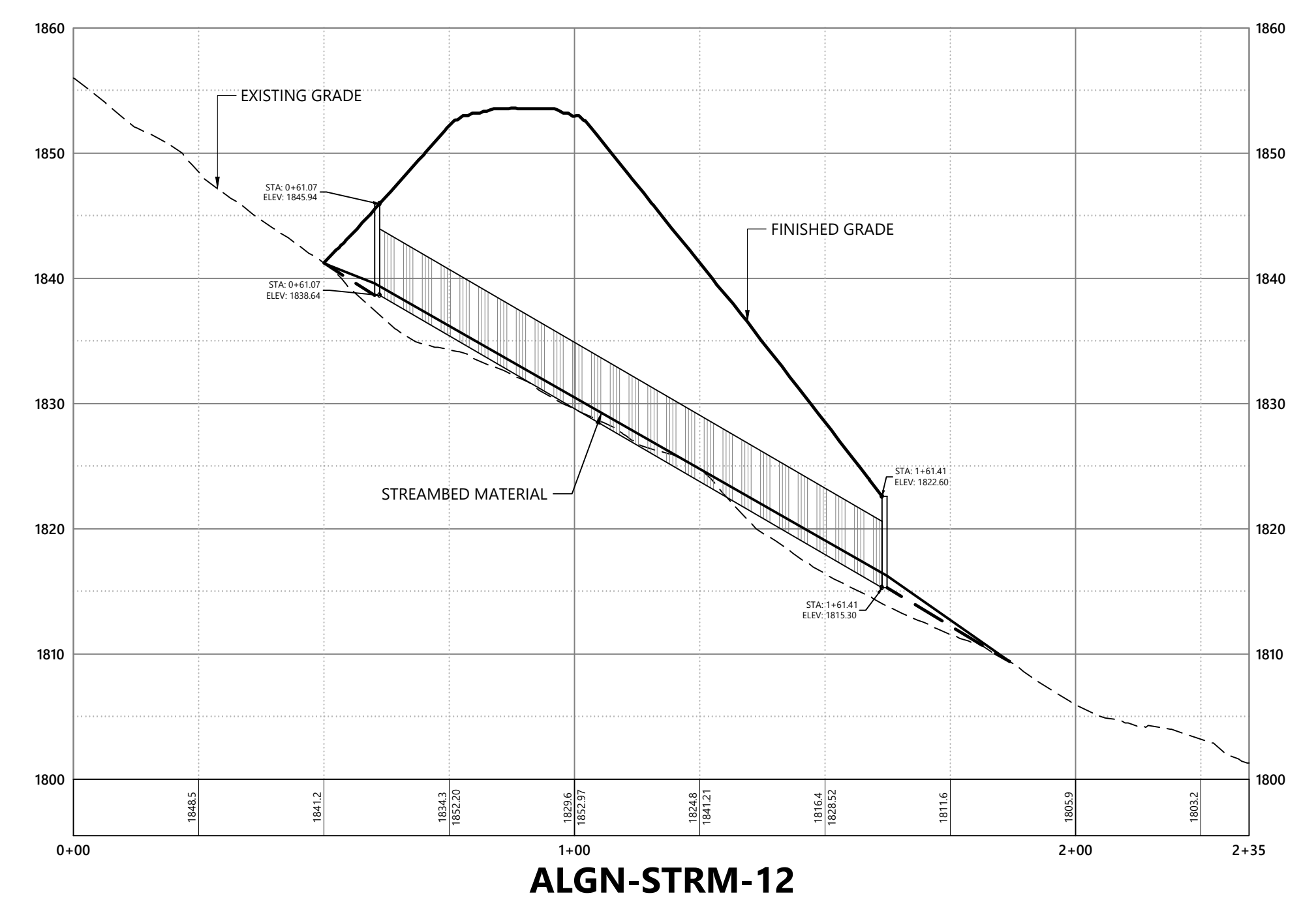
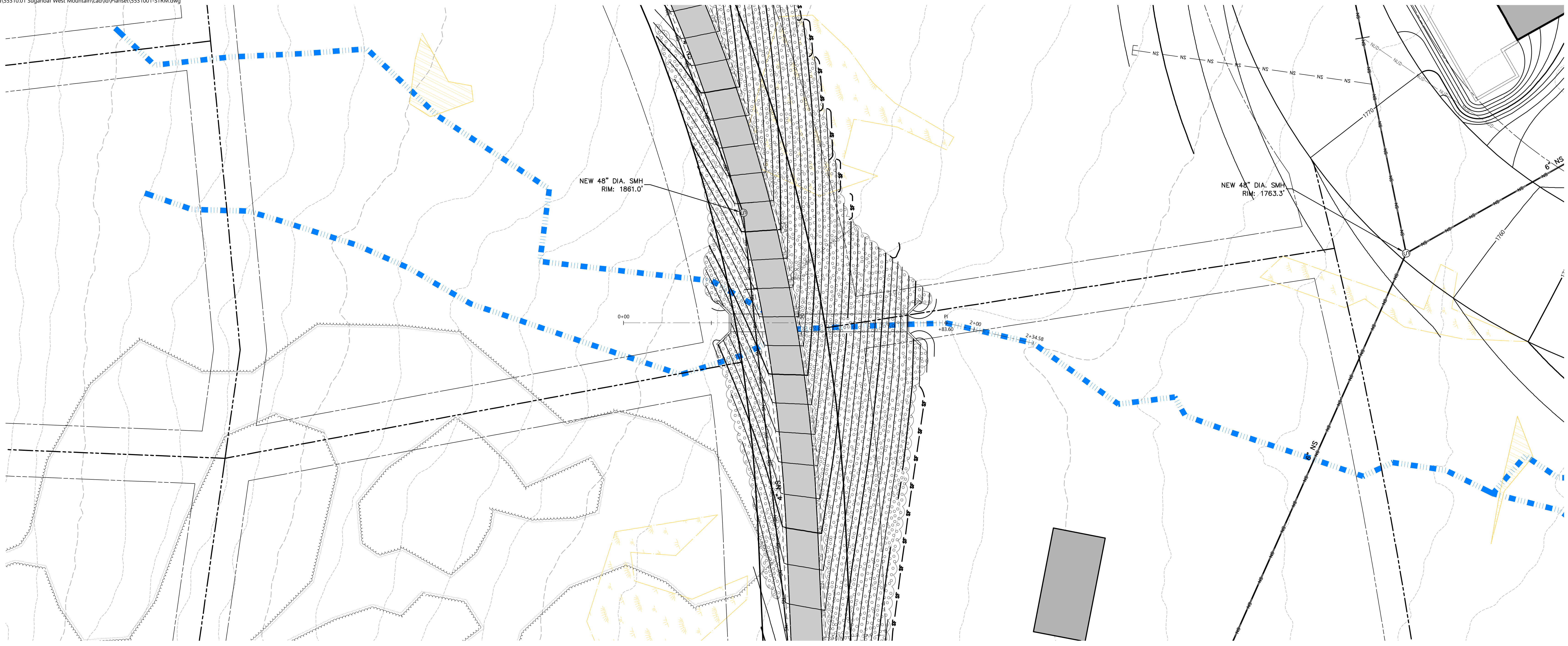
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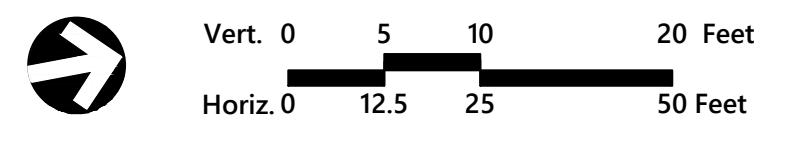




**STREAM CROSSING 12**

**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	100.34± Feet
PIPE DIMENSIONS	10' SPAN X 5.3' RISE
UPSTREAM INVERT	1838.64± Feet
DOWNSTREAM INVERT	1815.30± Feet
SLOPE	0.23 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

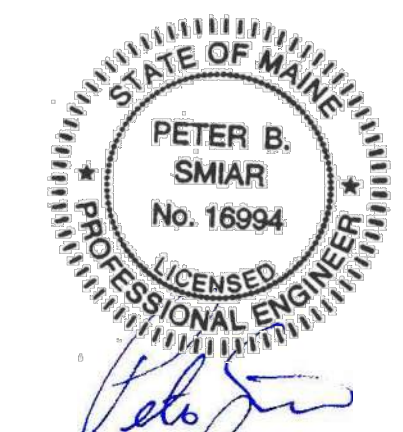


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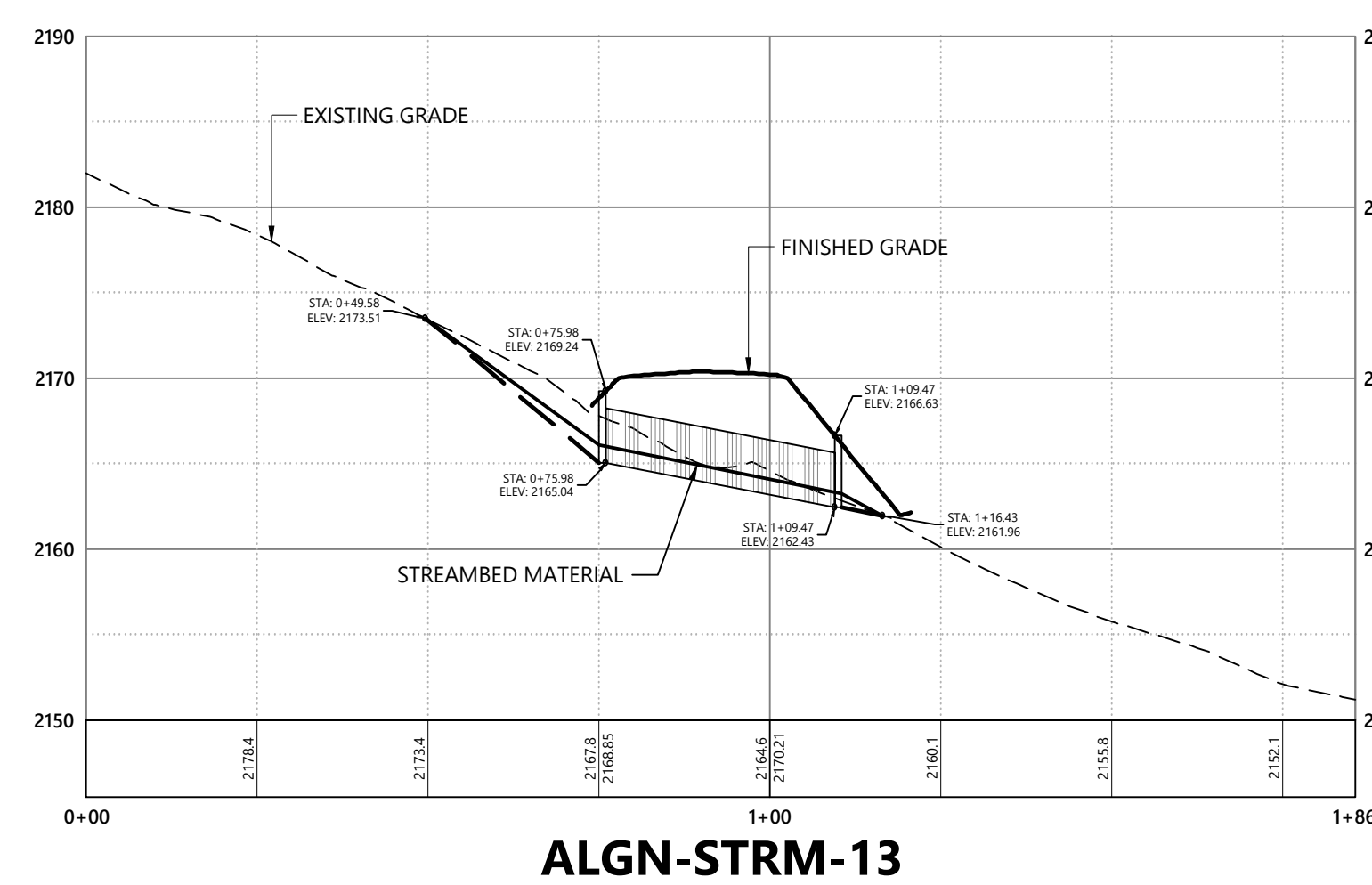
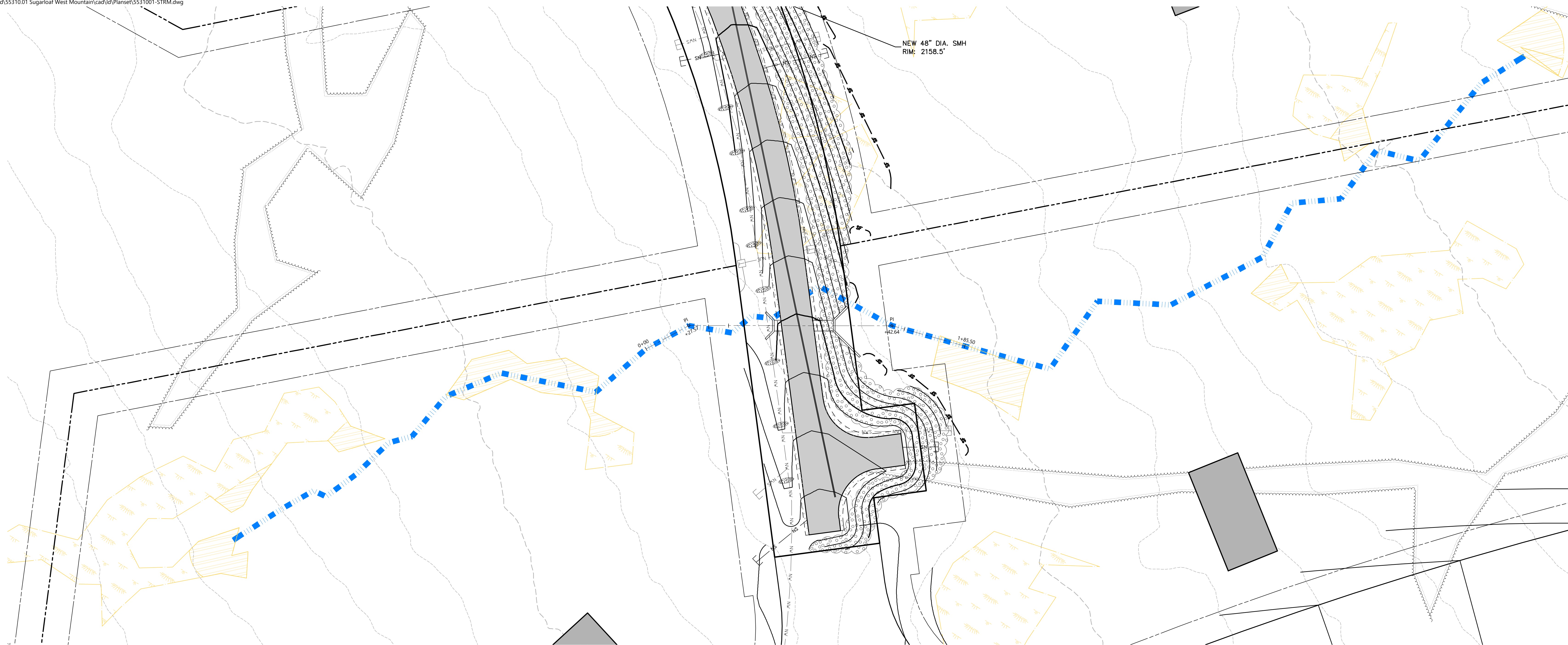
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**CG-2.12**

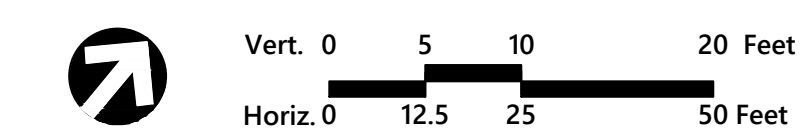
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**STREAM CROSSING 13**  
**SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	33.49± Feet
PIPE DIMENSIONS	6' SPAN X 3.2' RISE
UPSTREAM INVERT	2165.04± Feet
DOWNSTREAM INVERT	2162.43± Feet
SLOPE	0.08 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



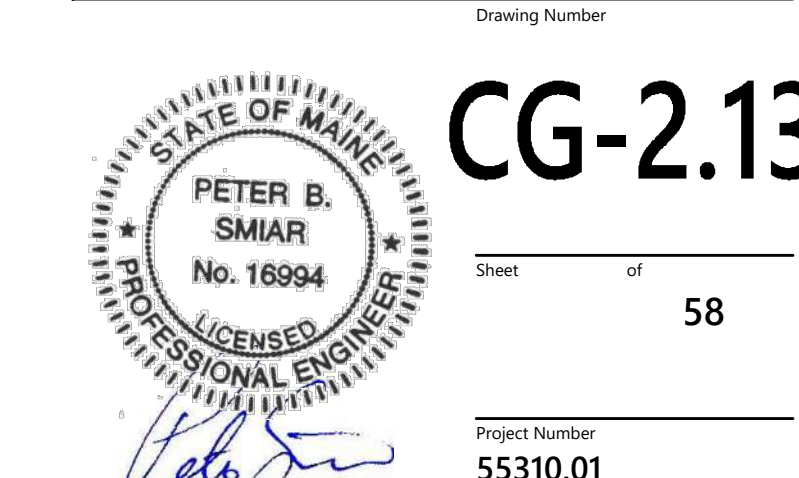
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**Construction Sequence**

1. SURVEY AND STAKE LIMITS OF CLEARING AND GRUBBING.
2. SURVEY AND STAKE (50 FT OC) LIMITS OF CLEARING AND DISTURBANCE.
3. INSTALL TEMPORARY EROSION CONTROL MEASURES (SILT FENCING, SILT SOCKS, CONSTRUCTION EXITS, ETC.).
4. CLEAR AND GRUB WITHIN LIMIT OF ACCESS ROAD. LIMITS OF CLEARING INDICATE AREAS WHERE TREES WILL BE CUT AND STUMPS WILL REMAIN IN THE GROUND.
5. STRIP LOAM AND PAVEMENT OR RECLAIM EXISTING PAVEMENT WITHIN LIMITS OF WORK AND STOCKPILE EXCESS MATERIAL.
6. CONSTRUCT TEMPORARY SEDIMENTATION BERMS AS REQUIRED.
7. INSTALL DRAINAGE SYSTEM, AND OTHER UTILITIES IN ACCORDANCE WITH THE PLANS AND DETAILS.
8. PERFORM FINAL / FINE GRADING INCLUDING SLOPE STABILIZATION BLANKETS.
9. PERFORM ALL REMAINING SITE CONSTRUCTION. (I.E. CONCRETE AND GRAVEL AREAS).
10. LOAM AND SEED ALL DISTURBED AREAS.
11. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER FINAL SURFACING IS INSTALLED, AND LANDSCAPING AREAS ARE ESTABLISHED AND STABILIZED.

12. CLEAN ALL DRAINAGE BASINS, STRUCTURES, PIPES, AND SUMPS WITHIN THE PROJECT LIMITS OF ALL SILT AND DEBRIS.

**General**

1. CONTRACTOR SHALL READ, BE FAMILIAR WITH, AND SHALL FOLLOW THE MAINE EROSION AND SEDIMENT CONTROL BMPs MANUAL (LATEST EDITION) AND MAINE EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONTRACTORS (LATEST EDITION); AND SHALL BE ACCOUNTABLE TO THE THIRD PARTY INSPECTOR FOR THE PROJECT AND THE MAINE DEP IN ACCORDANCE WITH MAINE DEP REGULATIONS.
2. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
4. MINIMUM TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. THE CONTRACTOR SHALL ADHERE TO THE MINIMUM PROVISIONS SHOWN. ADDITIONALLY, TEMPORARY MEASURES SHALL BE SELECTED AND CONSTRUCTED BY THE CONTRACTOR IN CONSULTATION WITH THE ENGINEER TO ACCOMMODATE CHANGING FIELD CONDITIONS THAT DEVELOP DURING CONSTRUCTION.
5. PUMPED WATER FROM DEWATERING ACTIVITIES SHALL BE DISCHARGED INTO SETTLING BASINS, FILTER BAGS OR OTHER APPROVED METHODS PRIOR TO DISCHARGE INTO THE ON-SITE STORMWATER MANAGEMENT SYSTEM. ALL WATER FROM DEWATERING ACTIVITIES SHALL BE RECHARGED ON-SITE OR DIRECTED TO THE DETENTION BASIN FOR DISCHARGE.
6. NO MORE THAN 1 ACRE SHOULD BE UNSTABILIZED AT ONE TIME WITHOUT REGULAR INSPECTION OR LIMITED TO AN AREA THAT CAN BE MULCHED IN ONE DAY.

**Seeding/Mulching**

1. FERTILIZER, SUPERPHOSPHATE, AND LIME SHALL BE APPLIED AT RATES RECOMMENDED BY THE TESTING AGENCY AND APPROVED BY THE ENGINEER.
2. PERMANENT SEED SHALL BE SUPPLIED IN THE FOLLOWING PROPORTIONS AND APPLIED AT A RATE OF FIVE POUNDS PER 1,000 SF:  
SEED TYPE (% PROPORTION/% GERMINATION MIN./% PURITY MIN.)  
CREEPING FESCUE (50/85/95)  
KENTUCKY BLUEGRASS (40/85/90)  
MANHATTAN PERENNIAL RYE (10/90/95)
3. AREA OF STORMWATER POND BERMS AND SILT TRAILS SHALL BE PLANTED WITH A MEADOW SEED MIX AND NOT MOWED MORE THAN TWICE A YEAR. CONTRACTOR TO PROVIDE FINAL MEADOW SEED MIX TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
4. TEMPORARY SEED SHALL BE SUPPLIED IN THE FOLLOWING PROPORTIONS AND APPLIED AT A RATE OF 100 POUNDS PER ACRE:  
SEED TYPE (% WEIGHT MIN./% GERMINATION MIN.)  
WINTER RYE (80/85)  
RED FESCUE - CREEPING (4/80)  
PERENNIAL RYE GRASS (3/90)  
RED CLOVER (3/90)
5. MULCH SHALL BE APPLIED TO AREAS IMMEDIATELY AFTER THEY HAVE BEEN SEEDED. MULCH SHALL CONSIST OF HAY, STRAW, HYDRO-MULCH, EROSION CONTROL BLANKETS, EROSION CONTROL MIX OR APPROVED EQUAL.
6. HAY OR STRAW MULCH SHALL BE AIR-DRIED, AND FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS. MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 75 LB PER 1,000 SF. MULCH SHALL BE ANCHORED WITH NETTING WHEN APPLIED TO SLOPES LESS THAN THAN 15 PERCENT.
7. EROSION CONTROL BLANKETS SHALL BE PROVIDED ON ALL SLOPES STEEPER THAN OF 1-FOOT RISE TO 3-FEET HORIZONTAL. BLANKETS SHALL BE SCISO BN (NORTH AMERICAN GREEN), CURLEX BLANKETS (AMERICAN EXCELSIOR COMPANY), POLYUTE STYLE 465 GT (SYNTHETIC INDUSTRIES), OR APPROVED EQUIVALENT. BLANKETS SHALL BE SECURED AS RECOMMENDED BY THE MANUFACTURER.
8. EROSION CONTROL MIX SHALL MEET THE FOLLOWING STANDARDS:  
A. ORGANIC MATTER CONTENT SHALL BE BETWEEN 80%-100%, DRY WEIGHT BASIS.  
B. PARTICLE SIZE BY WEIGHT: 100% PASSING THE 6" SCREEN  
70% TO 85% PASSING THE 0.75" SCREEN  
C. ORGANIC PORTION SHALL BE FIBROUS AND ELONGATED  
D. SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM, AND  
E. pH SHALL BE BETWEEN 5.0 AND 8.0.

**Temporary Erosion Control Measures**

1. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM AMOUNT OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION. AREAS REMAINING UNSTABILIZED FOR A PERIOD OF MORE THAN 15 DAYS SHALL BE TEMPORARILY MULCHED. TOTAL EXPOSED AREAS SHALL BE LIMITED TO NO MORE THAN CAN BE MULCHED IN ONE DAY.
2. TEMPORARY MULCH SHALL BE APPLIED TO UNSTABILIZED AREAS WITHIN 100-FT OF STREAMS, WETLANDS, AND OTHER WATER RESOURCES WITHIN 7 DAYS OF EXPOSING SOIL AND PRIOR TO ANY STORM EVENT.
3. DUST SHALL BE CONTROLLED THROUGH THE USE OF WATER.
4. CONTRACTOR SHALL PROVIDE TEMPORARY SILTATION/DEWATERING BASINS, IF NECESSARY AND/OR AS DIRECTED BY THE ENGINEER, TO CONTROL SEDIMENTATION AND STORMWATER RUNOFF DURING THE CONSTRUCTION PERIOD. CONTRACTOR SHALL SUBMIT PROPOSED BASIN LOCATIONS, DESIGNS, ETC. TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
5. EARTH MATERIAL STOCKPILES SHALL BE LOCATED IN AREAS THAT HAVE A MINIMUM POTENTIAL FOR EROSION AND KEPT AS FAR AWAY AS POSSIBLE FROM EXISTING DRAINAGE COURSES, PROTECTED NATURAL RESOURCES, TREE DRIP LINES AND OUTSIDE OF THE 100-YEAR FLOOD PLAIN. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADIANT OF STOCKPILES. STORMWATER SHOULD BE DIRECTED AWAY FROM STOCKPILE LOCATIONS.

6. REPAIR, CLEAN, AND REPLACE ANY SEDIMENT CONTROLS DAMAGED DURING AND/OR AFTER RAINFALL EVENTS.
7. EROSION CONTROL BLANKETS SHALL BE PLACED IN THE FLOW LINE OF ALL VEGETATED SWALES NOT OTHERWISE PROTECTED BY STONE.
8. EROSION CONTROL BLANKETS OR NETTING OVER LOOSE MULCH SHALL BE APPLIED TO ALL VEGETATED SLOPES GREATER THAN 3:1.
9. 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 90% VEGETATED GROWTH HAS BEEN ESTABLISHED;  
C. A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, HAS BEEN INSTALLED;  
D. EROSION CONTROL BLANKETS OR EROSION CONTROL MIX HAVE BEEN PROPERLY INSTALLED.

**Permanent Erosion Control Measures**

1. THE CONTRACTOR SHALL SUBMIT A WRITTEN MANUAL, PREPARED FOR THE OWNER, THAT OUTLINES A SCHEDULE FOR PROPER MAINTENANCE OF THE LAWNS. THIS SCHEDULE SHOULD INCLUDE TIMING AND METHODS FOR MOWING, WATERING, AERATION, FERTILIZATION, LIMING, AND OTHER LAWN MAINTENANCE OPERATIONS.
2. SEEDING SHALL BE DONE BETWEEN APRIL 1 TO JUNE 1, OR BETWEEN AUGUST 15 TO OCTOBER 15.
3. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PAVING, OR OTHERWISE DEVELOPED, SHALL BE COVERED WITH 6 INCHES LOAM AND SEEDED.

**Winter Construction**

1. WINTER CONSTRUCTION PERIOD: OCTOBER 15 THRU APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT A MAXIMUM OF 1 ACRE OF THE SITE IS UNSTABILIZED AT ANY ONE TIME OR LIMITED TO AN AREA THAT CAN BE MULCHED IN ONE DAY.
3. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB PER 1,000 SF OR 3 TONS/ACRE. MULCH SHALL BE APPLIED AND ANCHORED SO THAT THE GROUND SURFACE IS NOT VISIBLE THROUGHOUT THE MULCH. MULCH SHALL NOT BE APPLIED OVER SNOW.
4. MULCH SHALL NOT BE APPLIED WHERE THE SNOW DEPTH EXCEEDS ONE INCH. SNOW SHALL BE REMOVED PRIOR TO APPLICATION.
5. EROSION CONTROL BLANKETS SHALL BE APPLIED TO ALL VEGETATED SLOPES GREATER THAN 3:1.
6. A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE INSTALLED WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE.
7. DURING PERIODS WHEN TEMPERATURES ARE ABOVE FREEZING, AREAS SHALL BE FINE GRADED AND PROTECTED WITH EITHER MULCH; OR TEMPORARILY SEEDED AND MULCHED UNTIL THE FINAL TREATMENT CAN BE APPLIED.
8. AFTER NOVEMBER 1 EXPOSED AREAS THAT HAVE BEEN LOAMED AND FINAL GRADED MAY BE DORMANT SEEDED AT A RATE OF 3 TIME THE PERMANENT SEED RATE AFTER THE FIRST KILLING FROST AND OVERWINTER MULCHED OR ANCHORED WITH EROSION CONTROL BLANKETS.
9. WINTER INSPECTIONS SHALL BE PERFORMED ONE WEEK AND AFTER EACH RAINFALL, SNOWSTORM, OR THAW FOR VEGETATION GROWTH, EROSION, AND MAINTENANCE NEEDS.  
A. ALL AREAS INSUFFICIENTLY VEGETATED (LESS THAN 75% CATCH) SHALL BE STABILIZED FOR OVERWINTER PROTECTION.

**Site Inspection & Maintenance**

1. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS AND BEFORE AND AFTER EACH STORM EVENT.
2. CONTRACTOR SHALL MAINTAIN WRITTEN INSPECTION AND MAINTENANCE LOGS FOR THE EROSION CONTROL MEASURES FOR THE DURATION OF THE CONSTRUCTION PERIOD. LOSS SHALL BE MADE AVAILABLE TO THE OWNER, ENGINEER, MUNICIPALITY, AND MAINE DEP UPON REQUEST.
3. TEMPORARY MULCHING: ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED TO AREAS WHERE LESS THAN 90% OF THE SOIL SURFACE IS COVERED WITH MULCH.
4. CATCH BASIN/SILT SACK SEDIMENT TRAPS: SEDIMENT SHALL BE REMOVED FROM TRAPS WHEN ACCUMULATION DEPTH IS GREATER THAN OR EQUAL TO 1/2 THE DESIGN DEPTH OF THE TRAP. TRAPS SHALL BE REPLACED IF THE ARE DAMAGE, TORN, ETC.
5. SILT SOCK BARRIERS, SILT FENCE BARRIERS, AND STONE CHECK DAMS: SILT SOCK BARRIERS, SILT FENCE, AND STONE CHECK DAMS SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. SEDIMENT TRAPPED BEHIND BARRIERS/CHECK DAM SHALL BE REMOVED WHEN SEDIMENT DEPTH REACHES 6 INCHES. BARRIERS SHALL BE REPLACES WITH A TEMPORARY CHECK DAM IF THERE ARE SIGNS OF UNDERCUTTING OR IMPOUNDING LARGE VOLUMES OF WATER BEHIND THEM.
6. EROSION CONTROL BLANKETS: IF WASHOUTS OR BREAKAGE OCCURS, SLOPES SHALL BE REPAIRED, AND BLANKETS SHALL BE RE-INSTALLED.
7. STABILIZED CONSTRUCTION EXITS: EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. IF EXIT BECOMES INEFFECTIVE IT SHALL BE RECONSTRUCTED AND/OR REPLACED.
8. TEMPORARY SEDIMENTATION/DEWATERING BASINS: SEDIMENT IN TEMPORARY BASINS SHALL BE REMOVED AS NECESSARY DEPENDING ON THEIR USE AND DESIGN.
9. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE SYSTEMS.
10. LONG-TERM MAINTENANCE OF THE PERMANENT EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE OWNER.



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**Sugarloaf Mtn Corp  
West Mountain  
Expansion**

5092 Access Road  
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

Designed by: **RWN** Checked by: **PS**

Issued for: \_\_\_\_\_ Date: \_\_\_\_\_

Review: \_\_\_\_\_ September 23, 2021

Not For Construction  
Drawing Title  
**Erosion and Sediment  
Control Narrative**

Drawing Number  
**CA-1.00**

Sheet # **58** of \_\_\_\_\_

Project Number  
**55310.01**









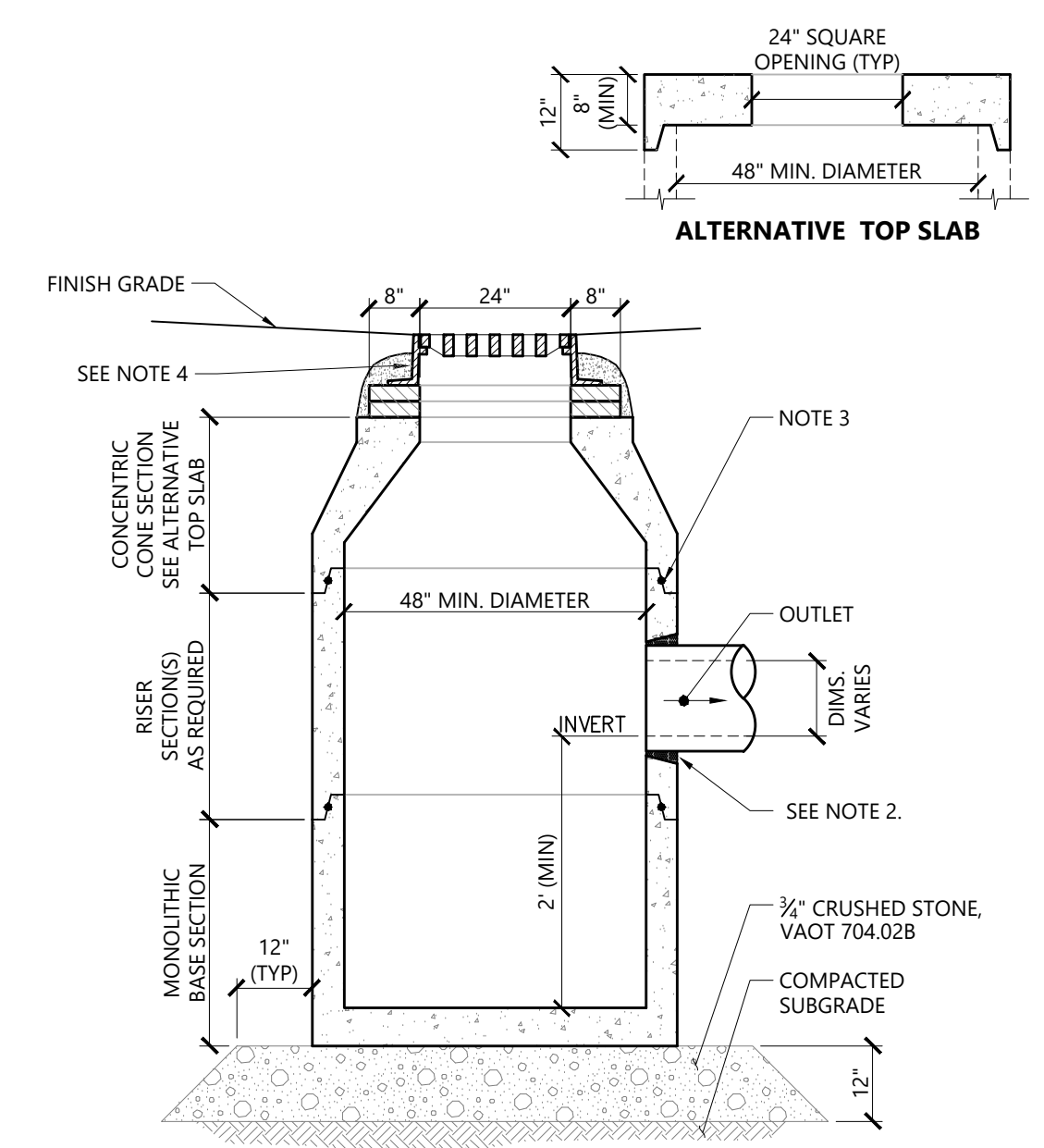




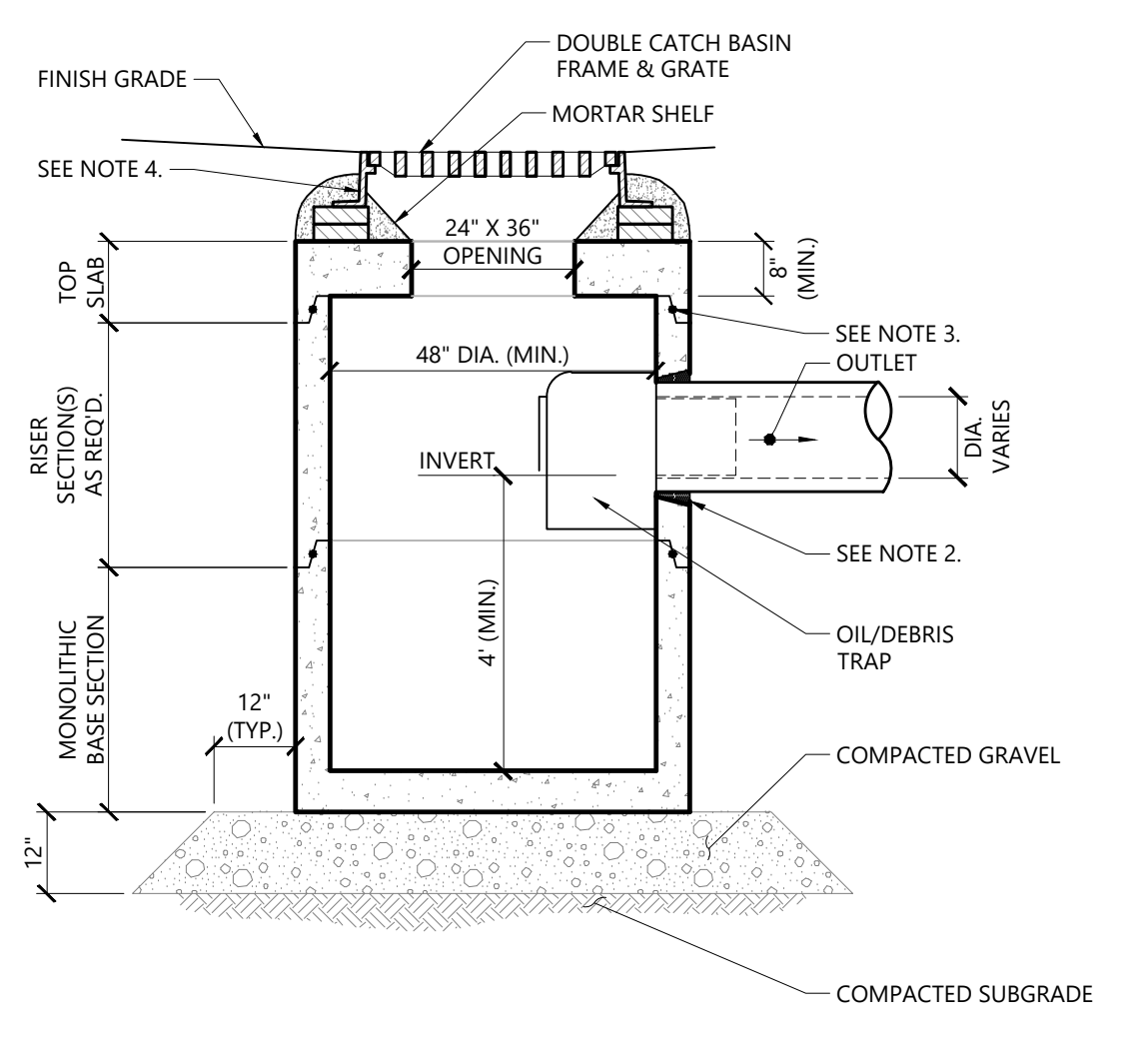




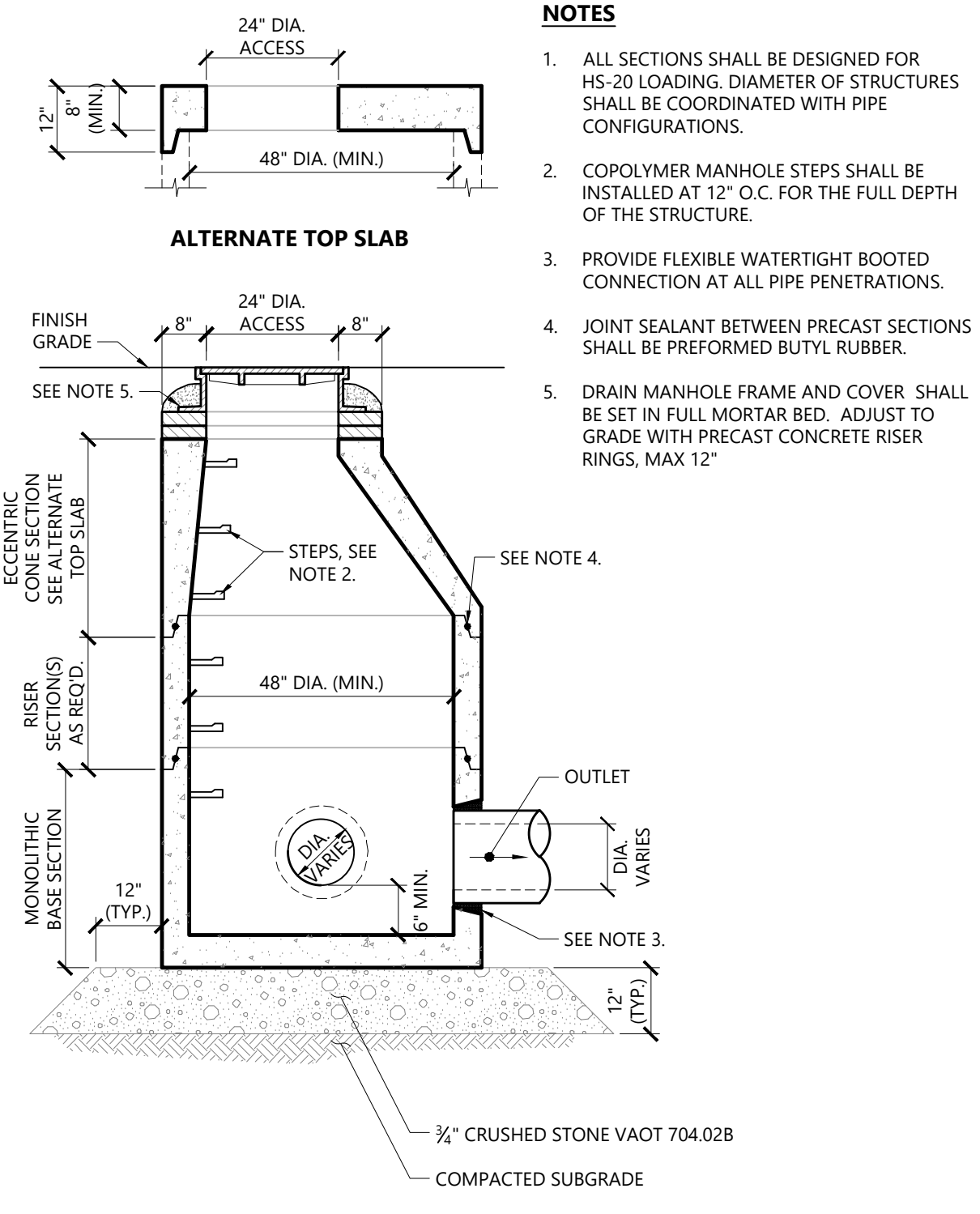
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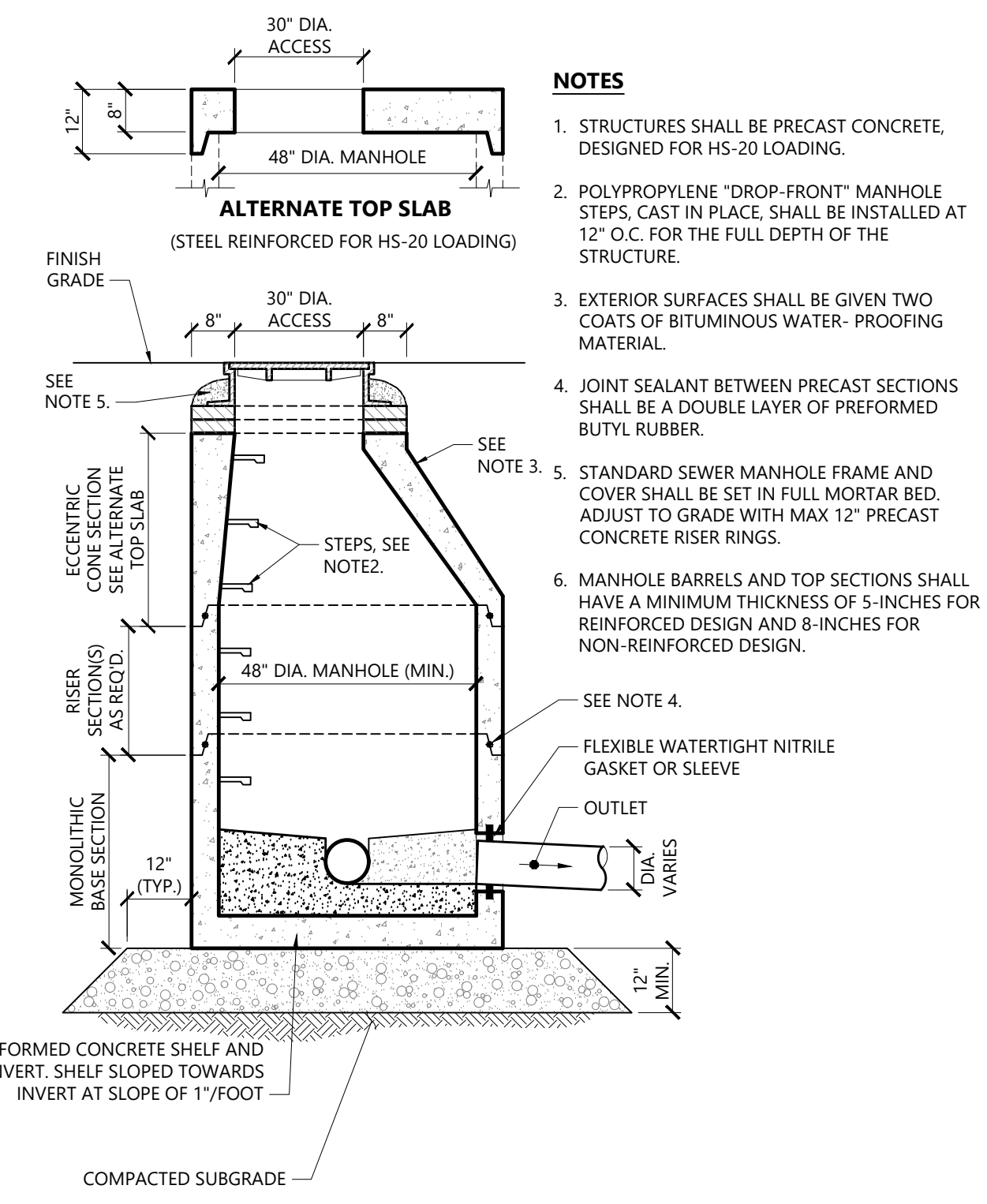
**Catch Basin (CB)** 1/16  
N.T.S. Source: VHB LD\_100



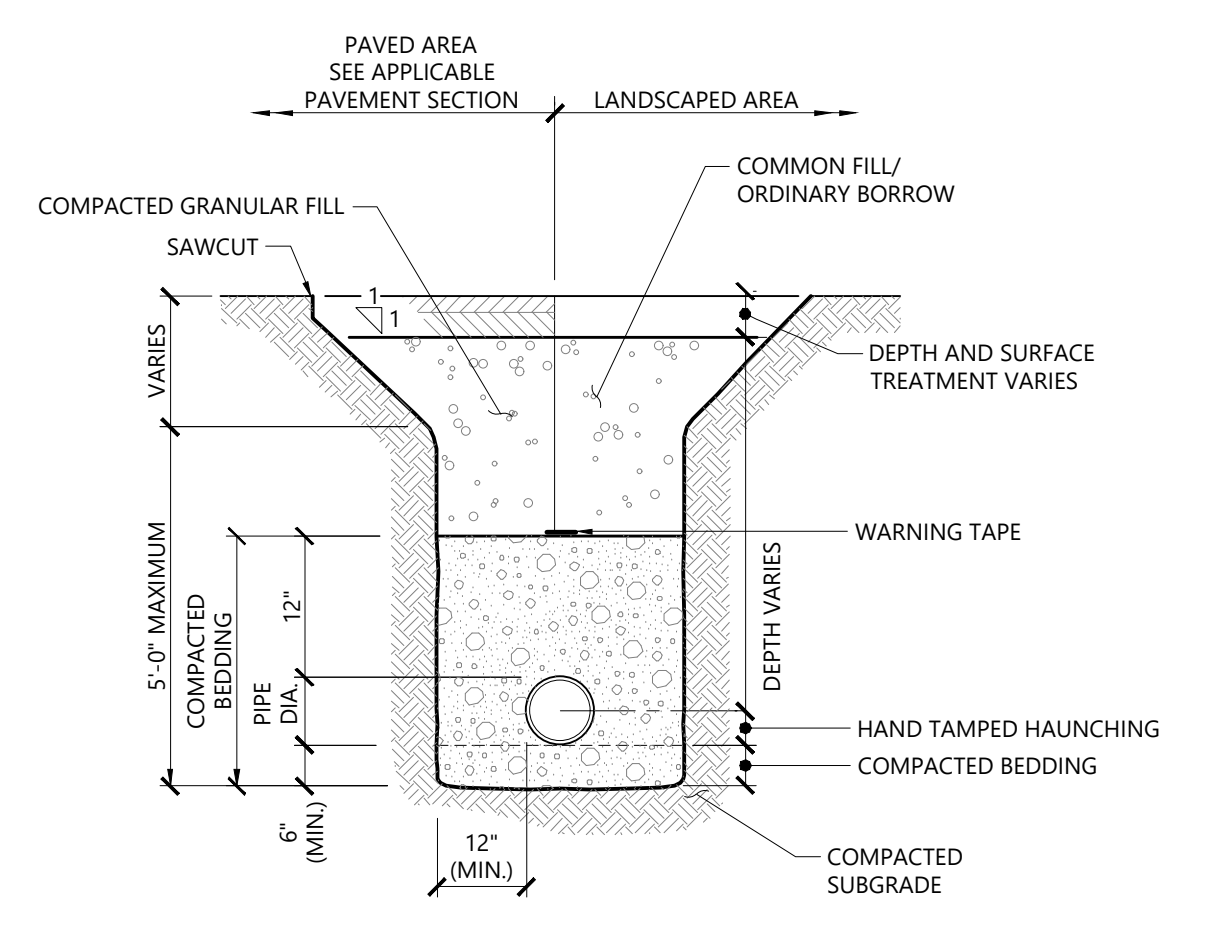
**Double Grate Catch Basin (DCB) with Oil/Debris Trap** 1/16  
N.T.S. Source: VHB LD\_103



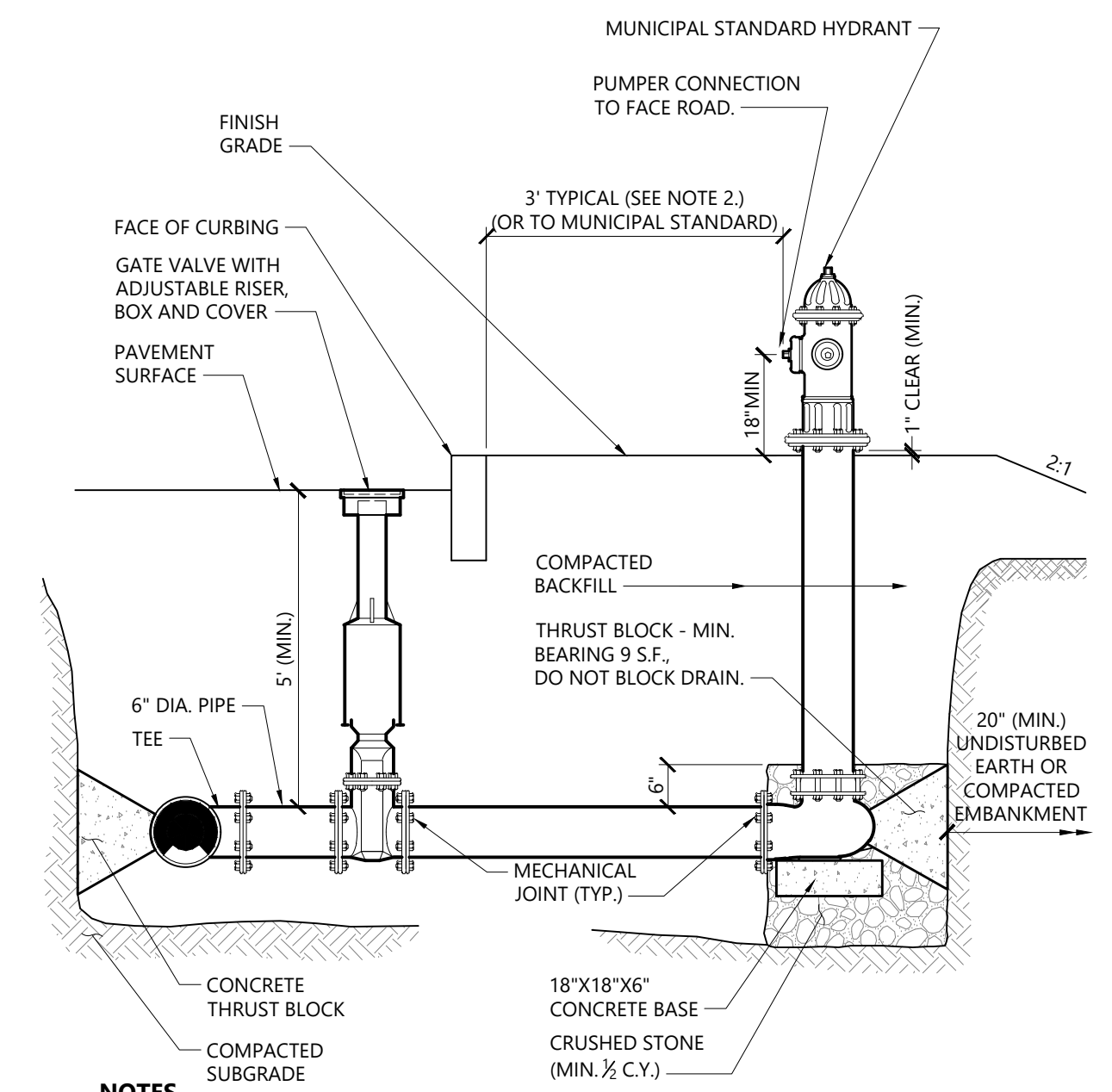
**Drain Manhole (DMH)** 1/16  
N.T.S. Source: VHB LD\_115



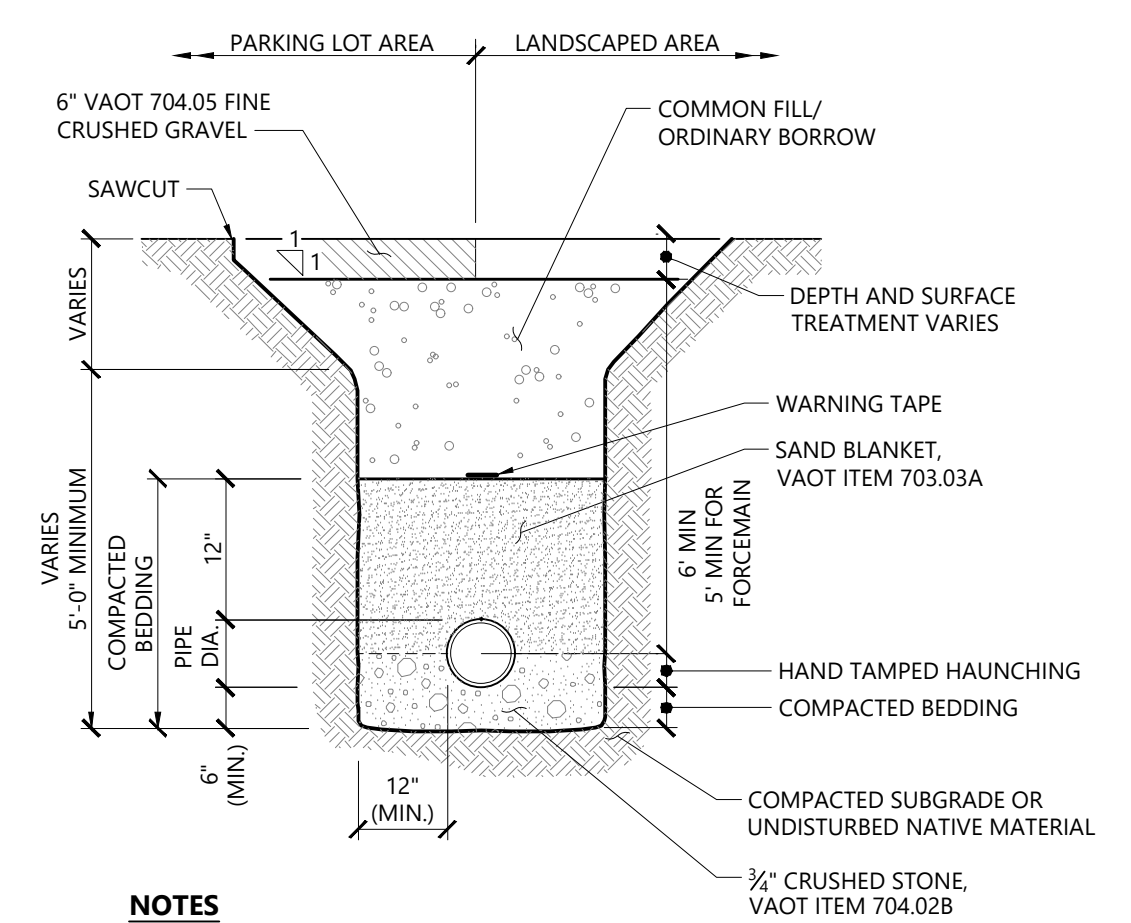
**Sanitary Sewer Manhole (SMH)** 1/16  
N.T.S. Source: VHB LD\_200-VT



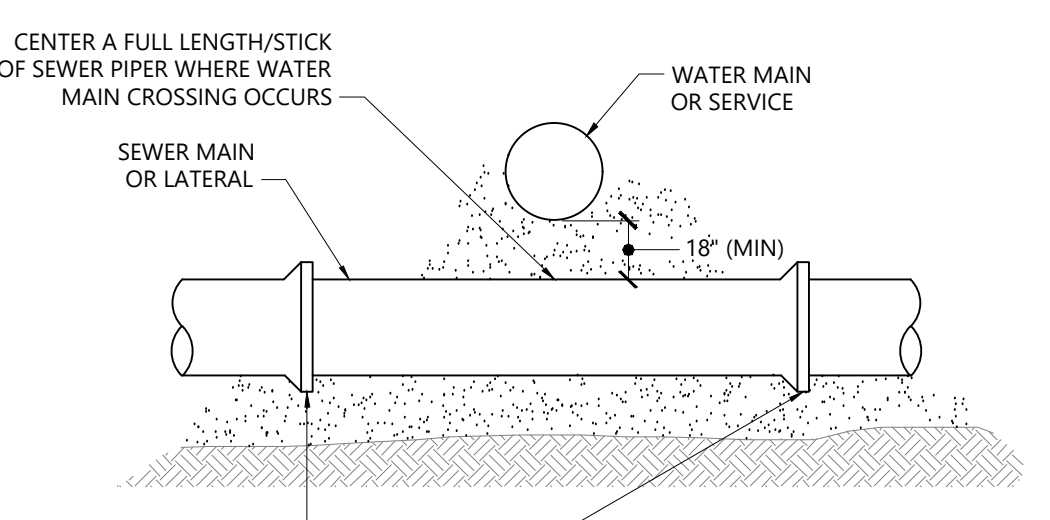
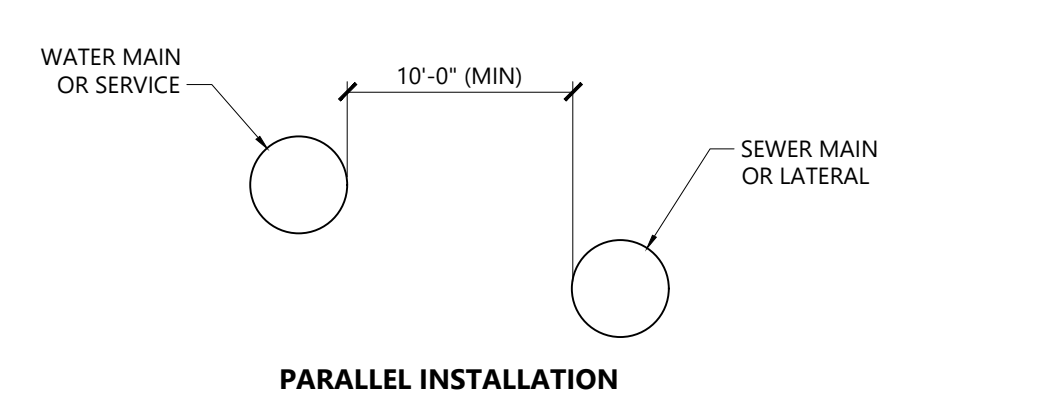
**Utility Trench** 1/16  
N.T.S. Source: VHB LD\_300



**Hydrant Construction** 12/18  
N.T.S. Source: VHB LD\_250



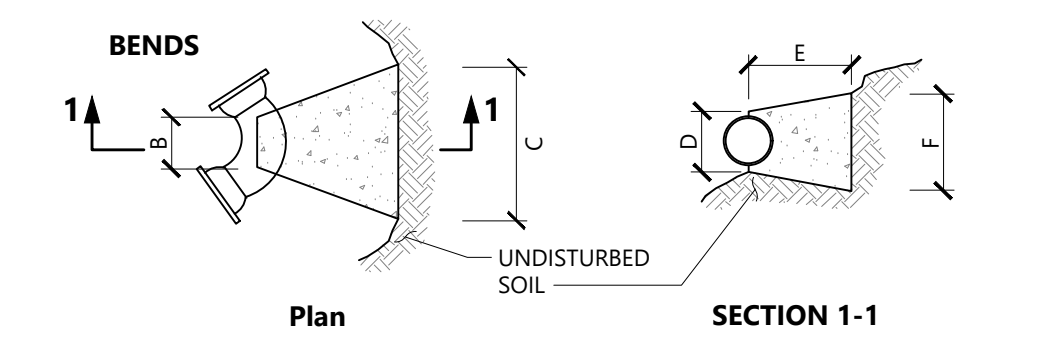
**Sewerline Trench** 1/16  
N.T.S. Source: VHB LD\_



**Water / Sewer Separation** 11/15  
N.T.S. Source: VHB LD\_

**TABLE OF DIMENSIONS**

BENDS	B	C	D	E	F	BENDS	B	C	D	E	F
6" 11 1/2"	8"	15"	12"	24"	12"	6" 45"	8"	30"	12"	24"	14"
6" 22 1/2"	"	19"	"	13"	6" 90"	"	30"	"	"	27"	"
8" 11 1/2"	"	20"	"	12"	8" 45"	"	30"	"	"	24"	"
8" 22 1/2"	"	22"	"	17"	8" 90"	"	38"	"	"	36"	"
12" 11 1/2"	"	30"	"	15"	12" 45"	"	40"	"	"	40"	"
12" 22 1/2"	"	35"	"	25"	12" 90"	"	60"	"	"	52"	"

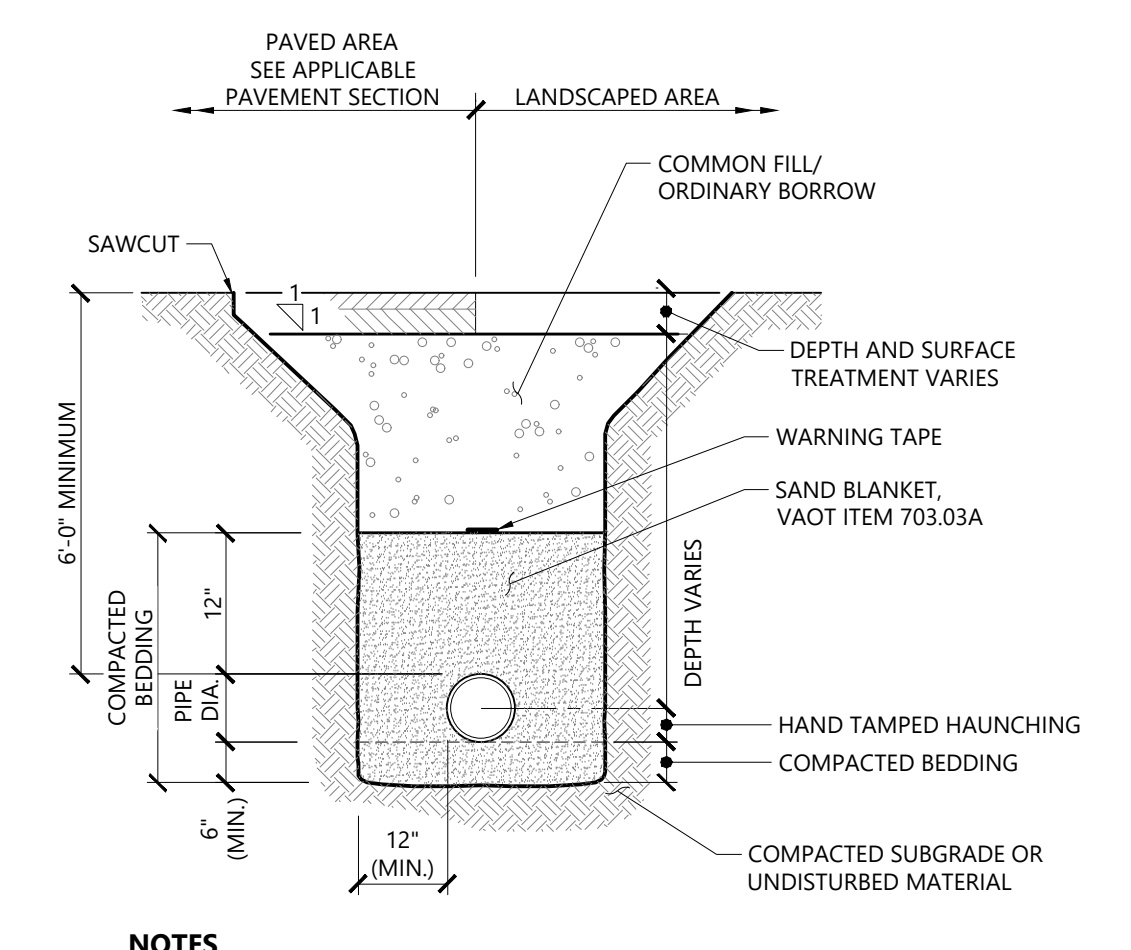


**TABLE OF DIMENSIONS**

TEES	G	H	I	J	TEES	G	H	I	J
6"X6"X6"	12"	24"	24"	18"	12"X12"X6"	12"	24"	24"	18"
8"X8"X6"	"	"	"	"	12"X12"X8"	"	"	"	24"
8"X8"X8"	"	"	"	24"	12"X12"X12"	"	36"	"	36"

- NOTES**
- PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES, AND VERTICAL BENDS (SAME SIZE AS REQUIRED FOR TEES). PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES.
  - CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.
  - CONCRETE SHALL BE 3,000 PSI-TYPE I.

**Concrete Thrust Block** 1/16  
N.T.S. Source: VHB LD\_260



**Waterline Trench** 1/16  
N.T.S. Source: VHB LD\_

**Sugarloaf Mtn Corp West Mountain Expansion**

5092 Access Road  
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

Designed by: **RWN** Checked by: **PS**  
Issued for: \_\_\_\_\_ Date: \_\_\_\_\_  
**Review** September 23, 2021

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**Utility Details**

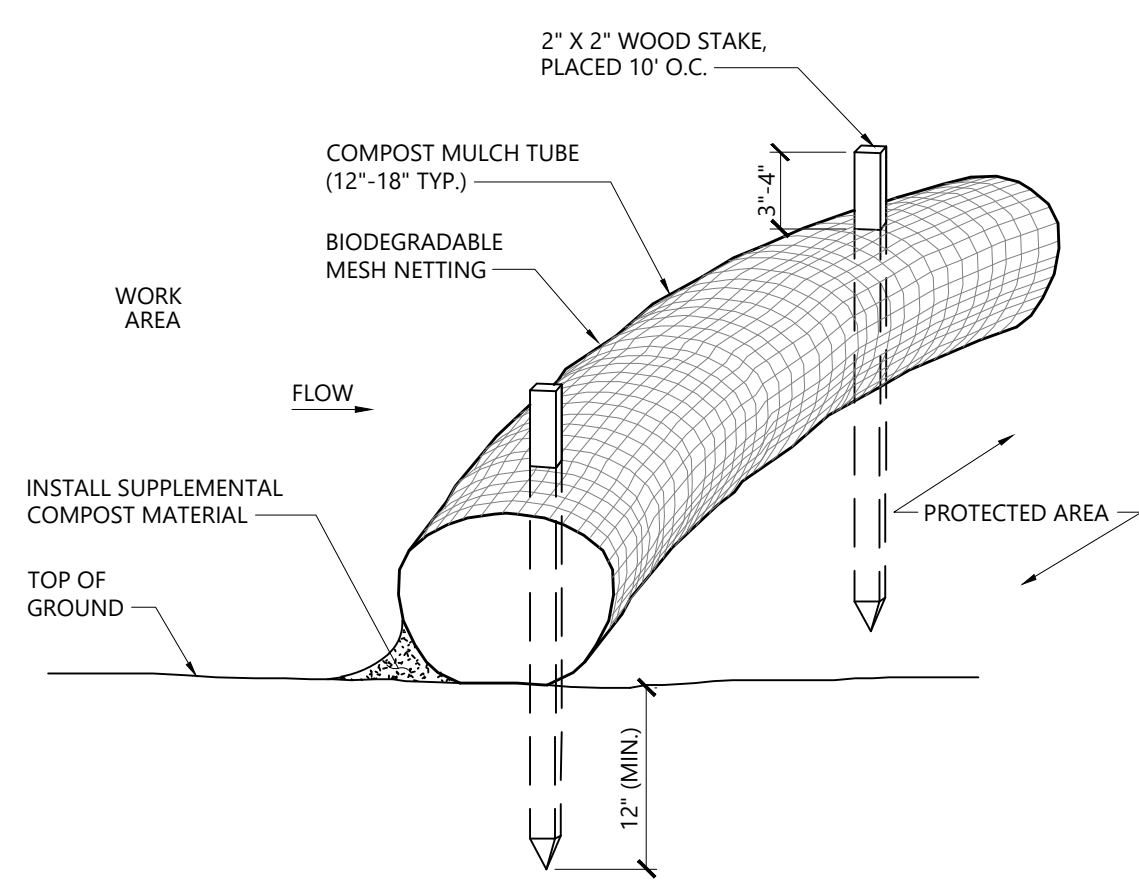
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**C1.03**  
Sheet # of 58  
Project Number: 55310.01





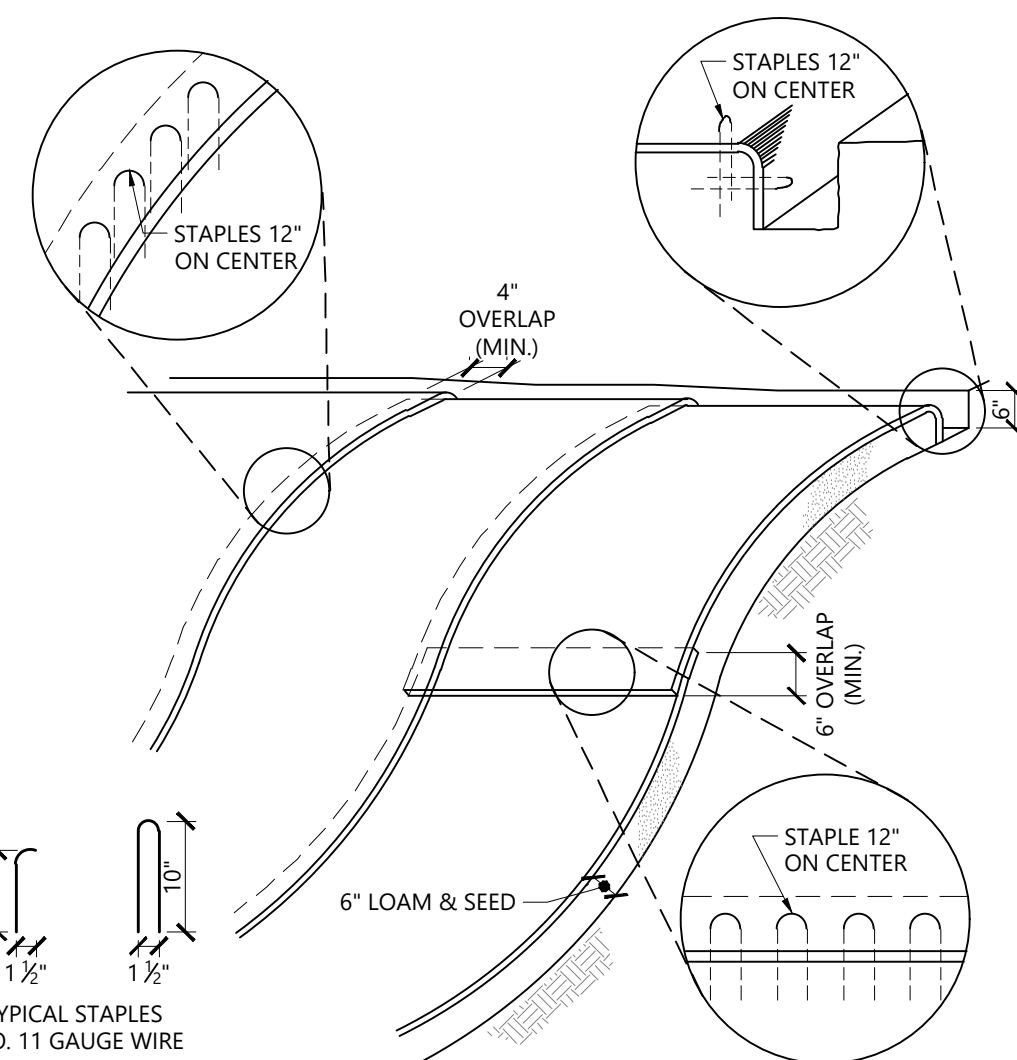
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**NOTES**

1. COMPOST MULCH TUBE SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.
2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.
6. SEE SPECIFICATIONS FOR SOCK SIZE, AND COMPOST FILL REQUIREMENTS.

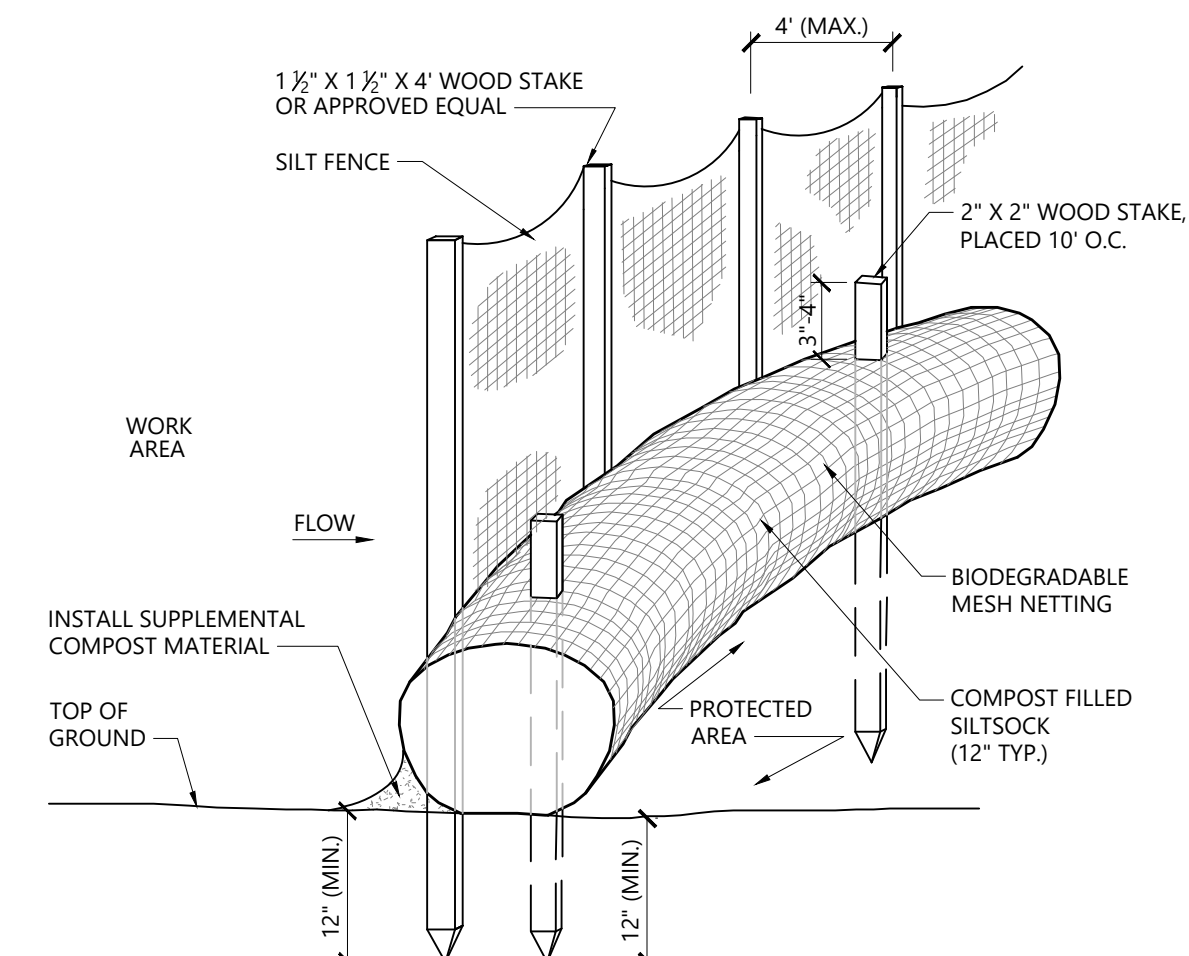
**Compost Mulch Tube - Erosion Control Barrier** 1/16  
N.T.S. Source: VHB LD\_658



**NOTES**

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
6. EROSION CONTROL BLANKETS TO BE USED IN AREAS WHERE SLOPES ARE EQUAL TO OR GREATER THAN 3:1. ALTERNATIVES MAY INCLUDE MULCH NETTING OVER LOOSE MULCH, OR EROSION CONTROL MIX AS SPECIFIED IN THE MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs).

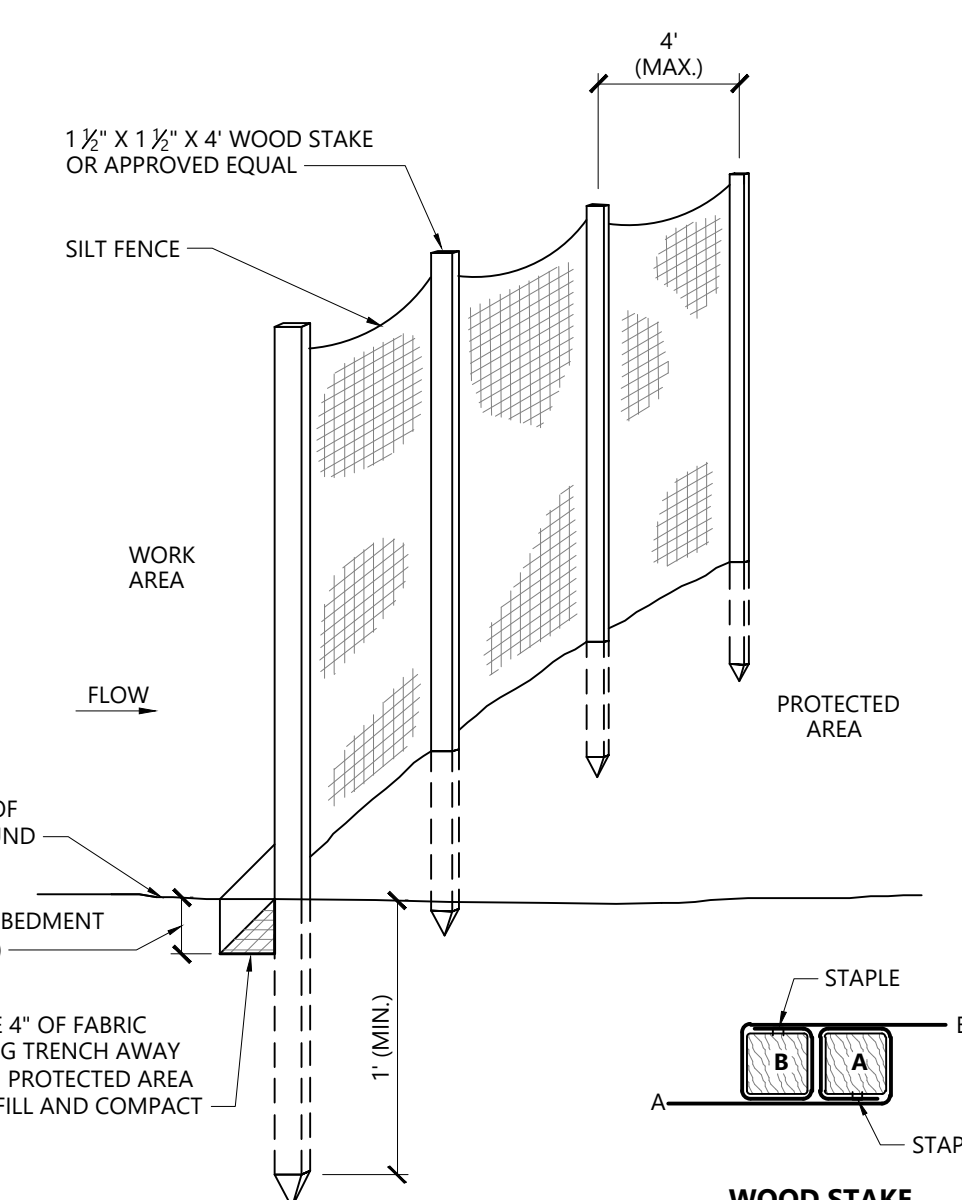
**Erosion Control Blanket Slope Installation** 1/16  
N.T.S. Source: VHB LD\_650



**NOTES**

1. SILT SOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.
2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILT SOCK SHALL BE INSPECTED WEEKLY AT A MINIMUM AND BEFORE AND WITHIN 24 HOURS AFTER ALL STORM EVENTS (RAINFALL). IF REPAIR IS REQUIRED, REPAIR WORK SHALL BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPs OR SIGNIFICANT REPAIR OF BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.
6. SILT SOCK / SILT FENCE BARRIER SHALL BE USED WHERE DISTURBANCE OCCURS WITHIN 50 FT OF A PROTECTED NATURAL RESOURCE.
7. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED ALONG EXISTING GRADES WITH ENDS TURNED UPSLOPE.

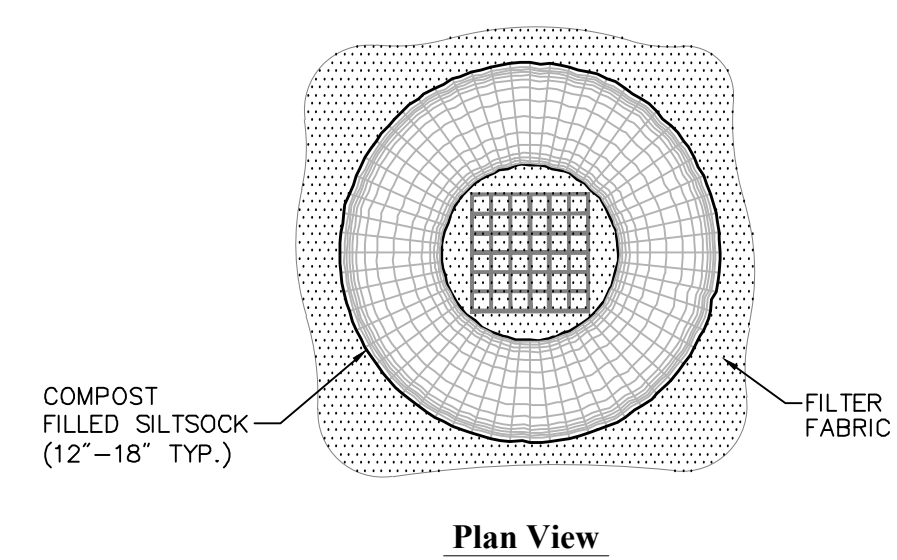
**Siltsock / Silt Fence Barrier** 1/16  
N.T.S. Source: VHB LD\_658-A



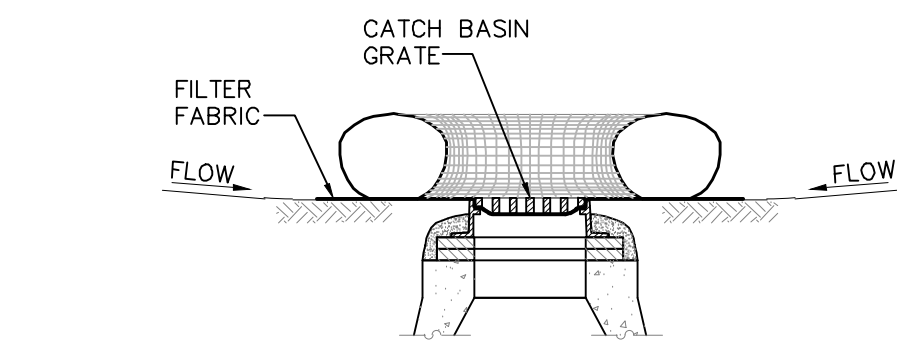
**NOTES**

1. SILT FENCE MAY BE REQUIRED IN ADDITION TO EROSION CONTROL TUBES WHERE SLOPES ARE GREATER THAN 2:1.
2. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED ALONG EXISTING GRADES WITH ENDS TURNED UPSLOPE.

**Silt Fence Barrier** 1/16  
N.T.S. Source: VHB LD\_650



**Plan View**

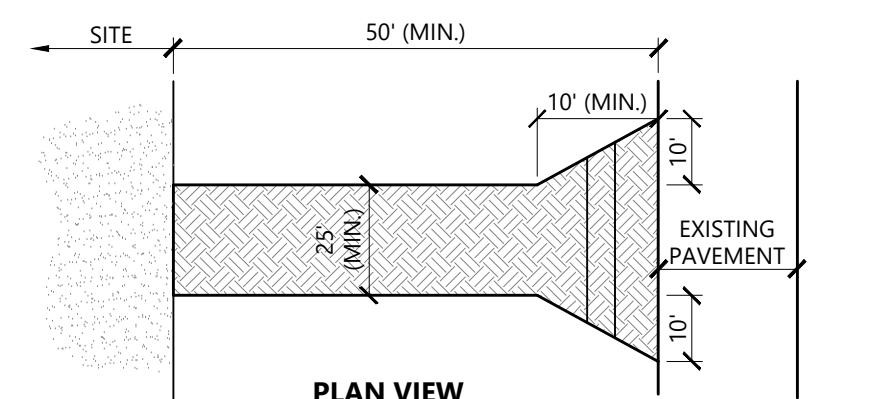


**Section View**

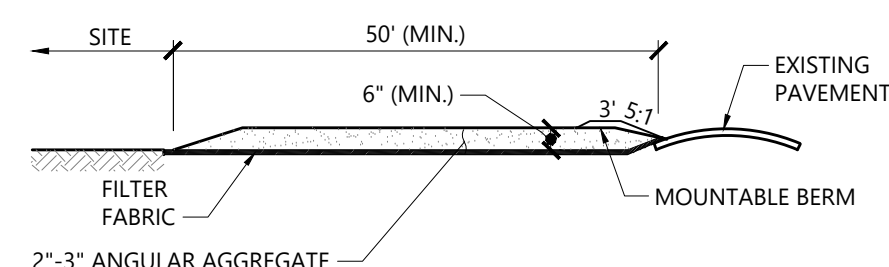
**Notes:**

1. ENCLOSE STRUCTURE WITH SILT SOCK IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION. MAINTAIN UNTIL PAVING BINDER COURSE IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
2. IF GRATE IS AGAINST EXISTING CURB THEN SILT SOCK IS TO BE PLACED AROUND THREE SIDES OF GRATE ONLY.
3. GRATE TO BE PLACED OVER FILTER FABRIC.
4. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
5. SILT SOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.

**Catch Basin Sediment Trap - Siltsock** 1/16  
N.T.S. Source: VHB LD\_658



**PLAN VIEW**

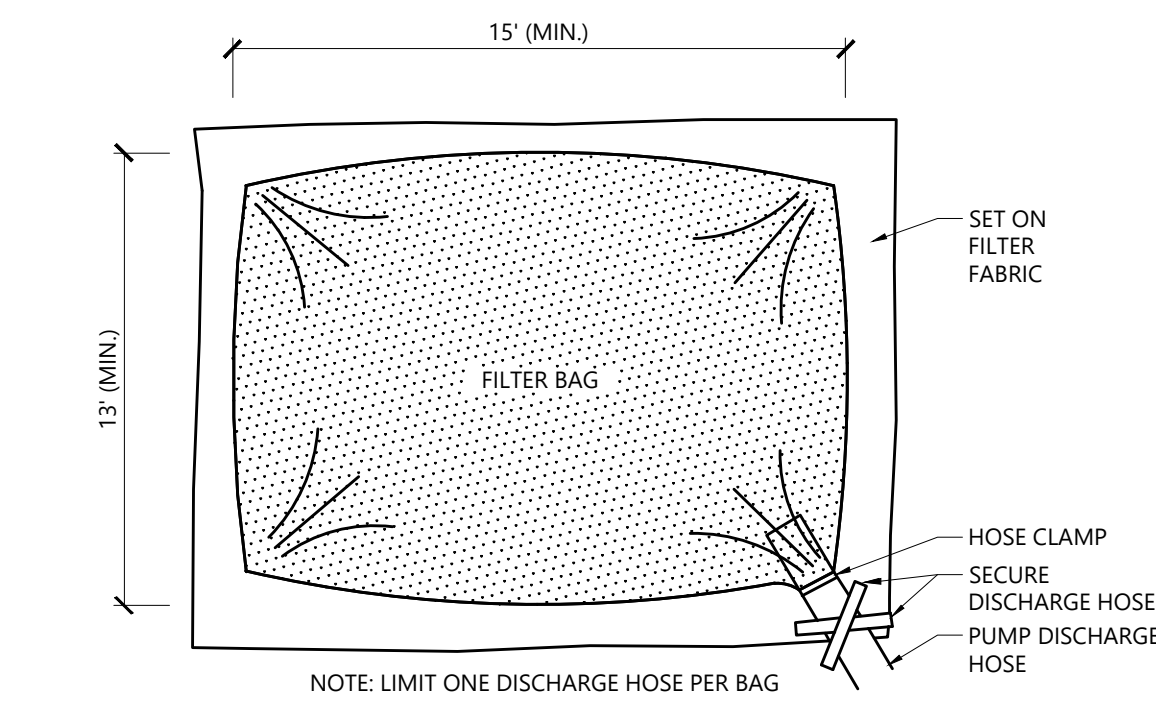


**CROSS-SECTION**

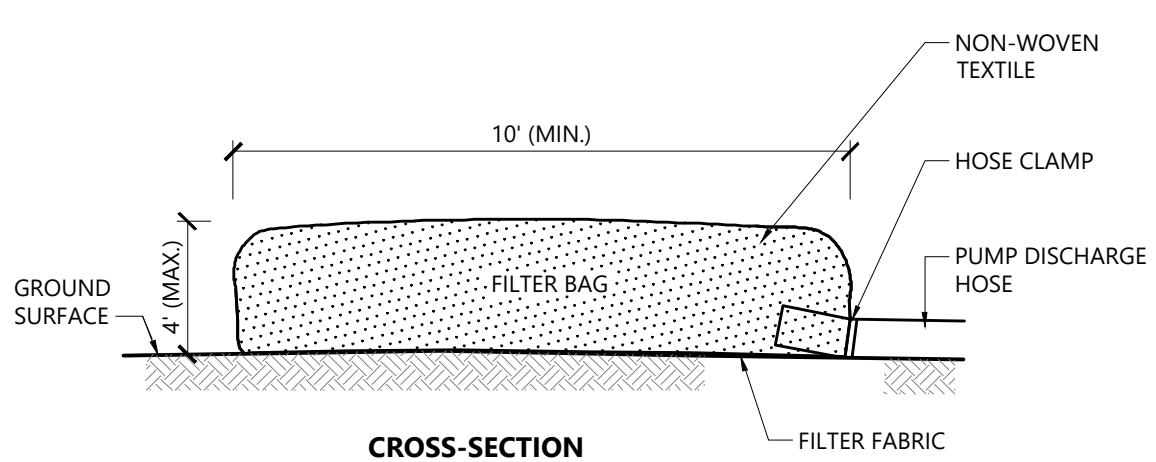
**NOTES**

1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENTS SHALL BE REMOVED BY VACUUM SWEEPING.
3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. INSPECTION AND MAINTENANCE SHALL BE PERFORMED WEEKLY AND BEFORE AND AFTER STORM EVENTS.
4. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

**Stabilized Construction Entrance/Exit** 7/19  
N.T.S. Source: VHB LD\_682



**PLAN VIEW**

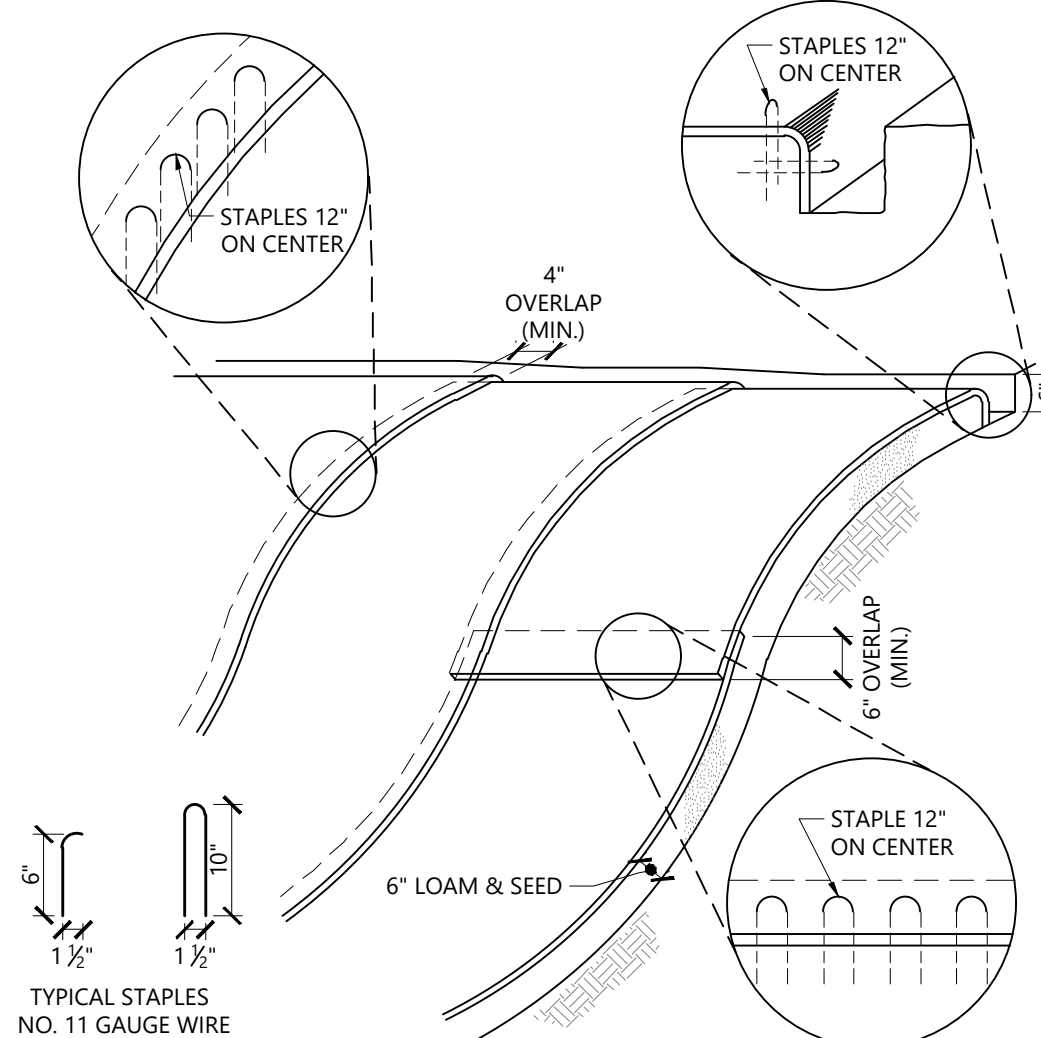


**CROSS-SECTION**

**NOTES**

1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. DEWATERING FILTER BAGS SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES. ENSURE DOWN GRADIENT SLOPE IS WELL VEGETATED.

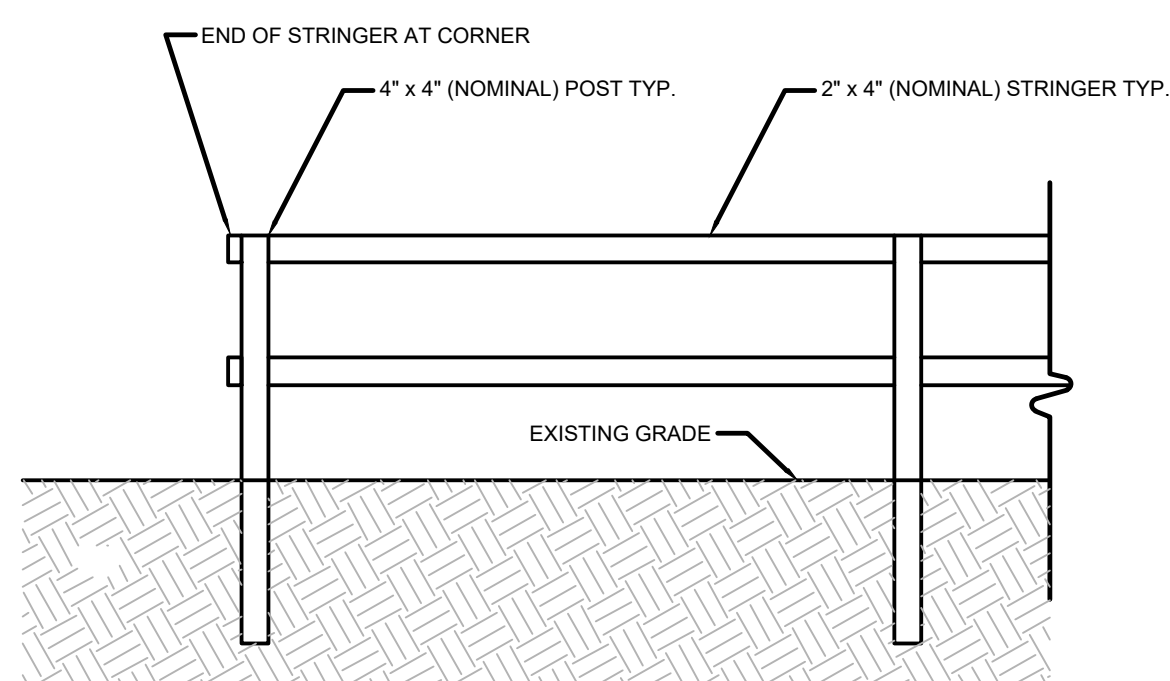
**Dewatering Filter Bag** 1/16  
N.T.S. Source: VHB LD\_691



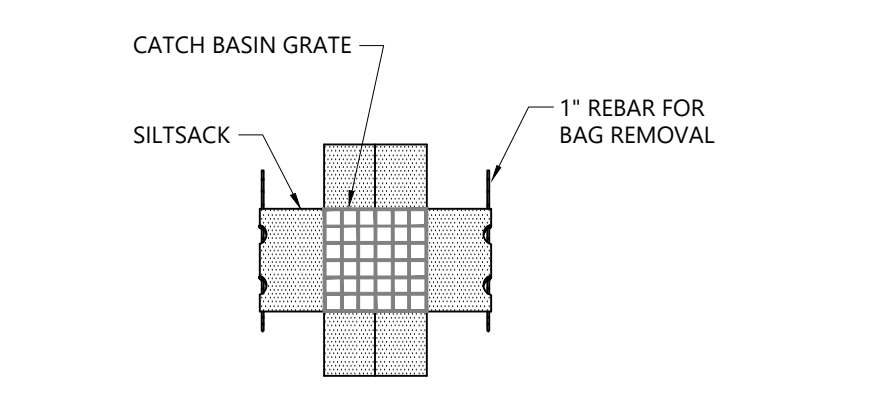
**NOTES**

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

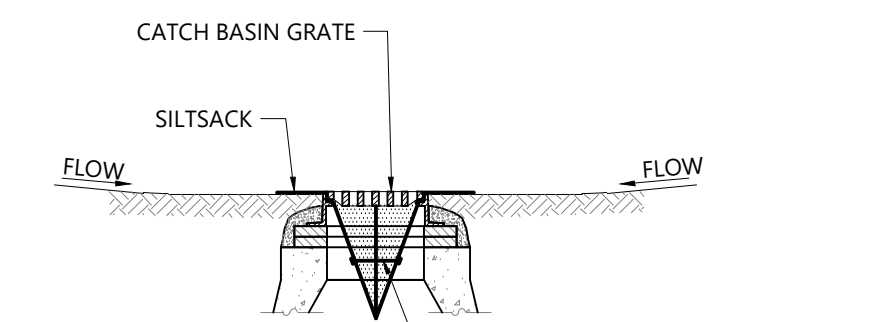
**Erosion Control Blanket Slope Installation** 1/16  
N.T.S. Source: VHB LD\_680



**Tree Protection Fence** 1/16  
N.T.S. Source: Wolf Landscape Architecture LD\_658



**PLAN VIEW**

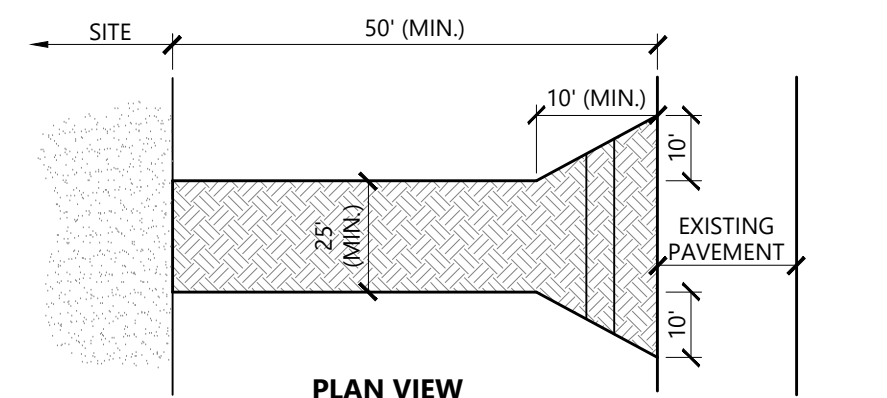


**SECTION VIEW**

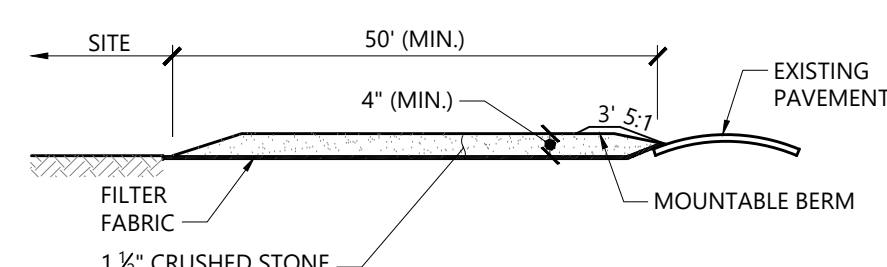
**NOTES**

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

**Siltsack Sediment Trap** 1/16  
N.T.S. Source: VHB LD\_674



**PLAN VIEW**

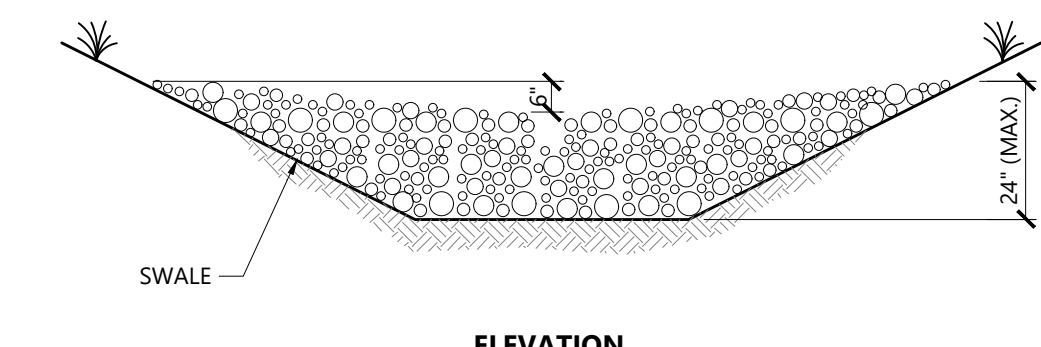


**CROSS-SECTION**

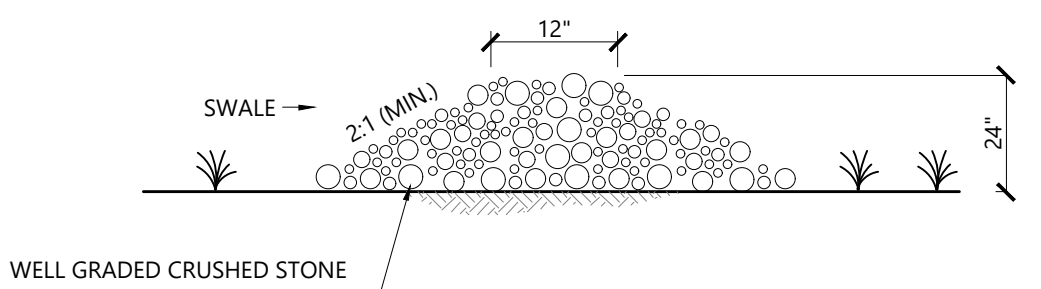
**NOTES**

1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

**Stabilized Construction Exit** 1/16  
N.T.S. Source: VHB LD\_682



**ELEVATION**



**CROSS-SECTION**

**NOTES**

1. TOP OF DOWNGRADIENT CHECKDAM AND BOTTOM OF UPGRADIENT CHECKDAM TO BE SET AT THE SAME ELEVATION.
2. STONE CHECKDAMS MAY BE REMOVED WHEN 90% OF THE VEGETATIVE COVER IS ESTABLISHED.

**Temporary Stone Checkdam** 1/16  
N.T.S. Source: VHB LD\_682

**Sugarloaf Mtn Corp  
West Mountain  
Expansion**

5092 Access Road  
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

Designed by: **RWN** Checked by: **PS**

Issued for: **Review** Date: **September 23, 2021**

**Not For Construction**

**Erosion Prevention and  
Sediment Control Details**

Drawing Title

Sheet # **58** of **58**

Project Number **55310.01**

Drawing Number

Professional Engineer

**PETER B. SMAR**  
No. 16994

**C1.04**

Sheet # **58** of **58**

Project Number **55310.01**

Professional Engineer

*[Signature]*

Project Number **55310.01**

Professional Engineer

*[Signature]*

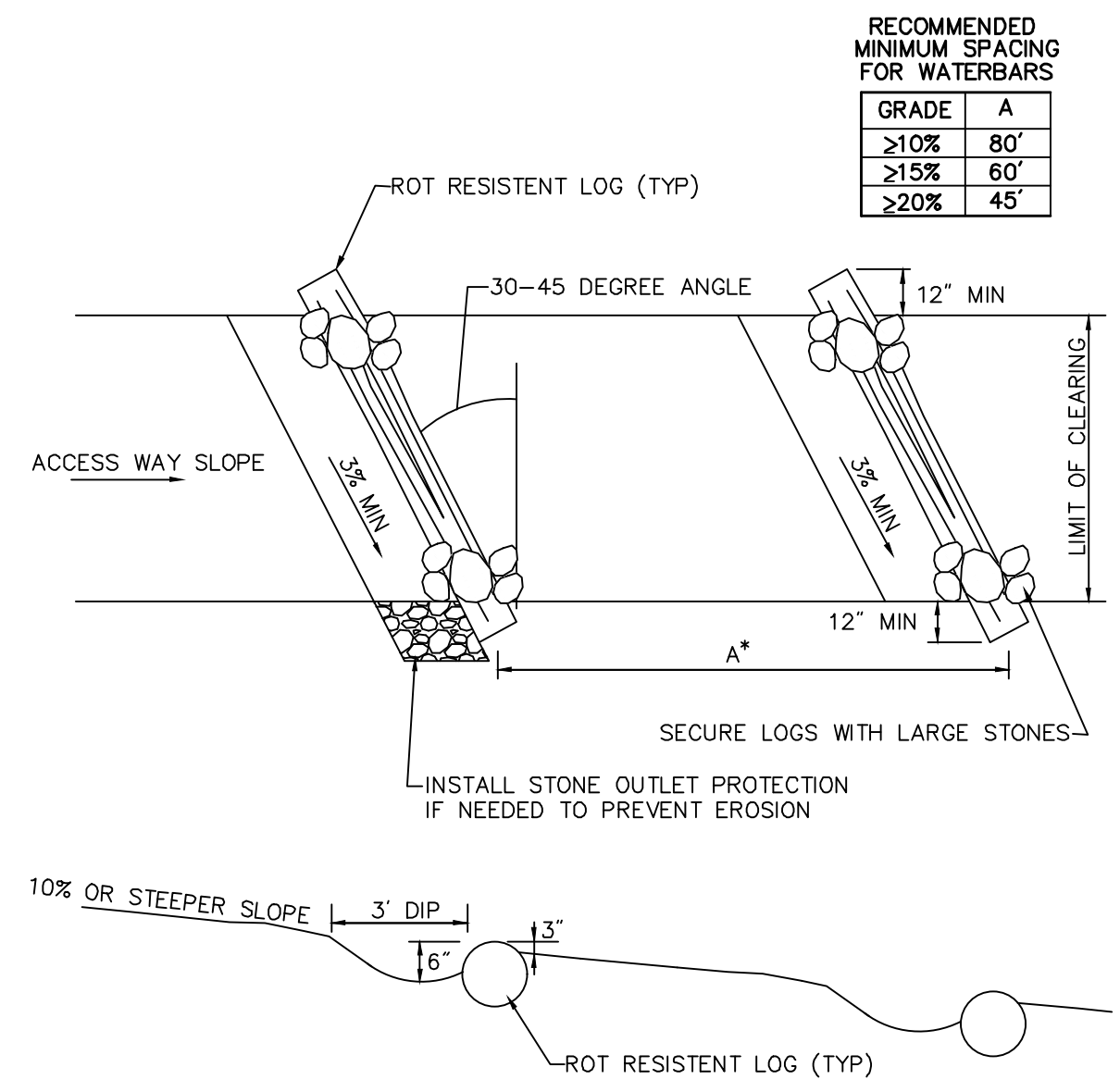
Project Number **55310.01**

Professional Engineer



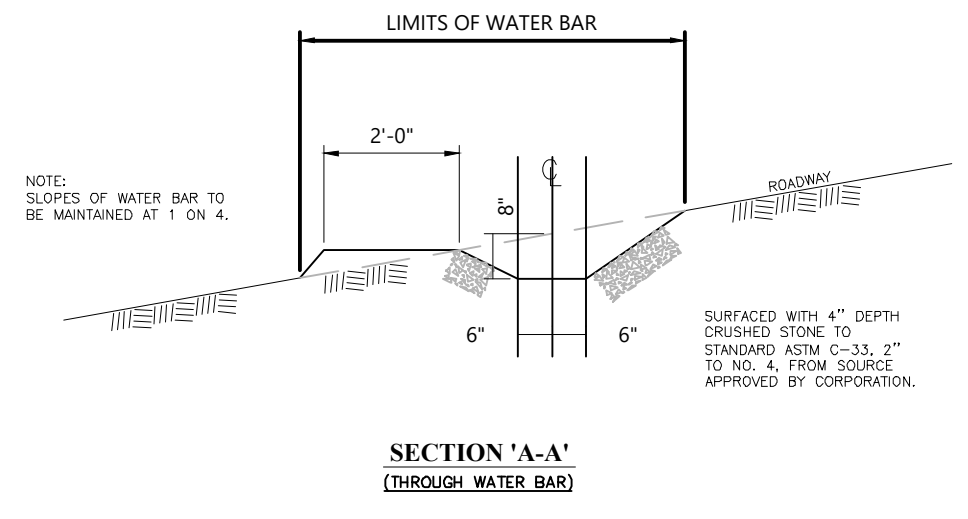


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- Notes:**
1. WATERBARS SHOULD BE INSTALLED IN SECTIONS WITH SLOPES GREATER THAN OR EQUAL TO 10%.
  2. WATERBARS SHALL BE CONSTRUCTED WITH 10" DIAMETER MINIMUM PEELED LOGS, HELD IN PLACE WITH LARGE STONES. APPROPRIATE SPECIES INCLUDE SPRUCE, HEMLOCK, BEECH, AND OAK.
  3. CONTRACTOR TO OBSERVE THE CLEARINGS DURING A RAINSTORM TO DETERMINE IF ADDITIONAL WATERBARS OR ADJUSTMENTS TO WATERBARS ARE NEEDED.
  4. WATERBAR DESIGN AND SPACING PROVIDED FOR GUIDANCE TO CONTROL EROSION ALONG CROSS-COUNTRY CLEARINGS. THE CONTRACTOR SHALL DETERMINE IF OTHER APPROPRIATE MEASURES ARE REQUIRED TO CONTROL RUNOFF AND EROSION IN CLEARING AREAS.
  5. FOR WIDER LIMITS OF CLEARING MULTIPLE LOG LENGTHS MAY BE REQUIRED. ANCHOR ALL LOG ENDS WITH LARGE STONES AS SHOWN.

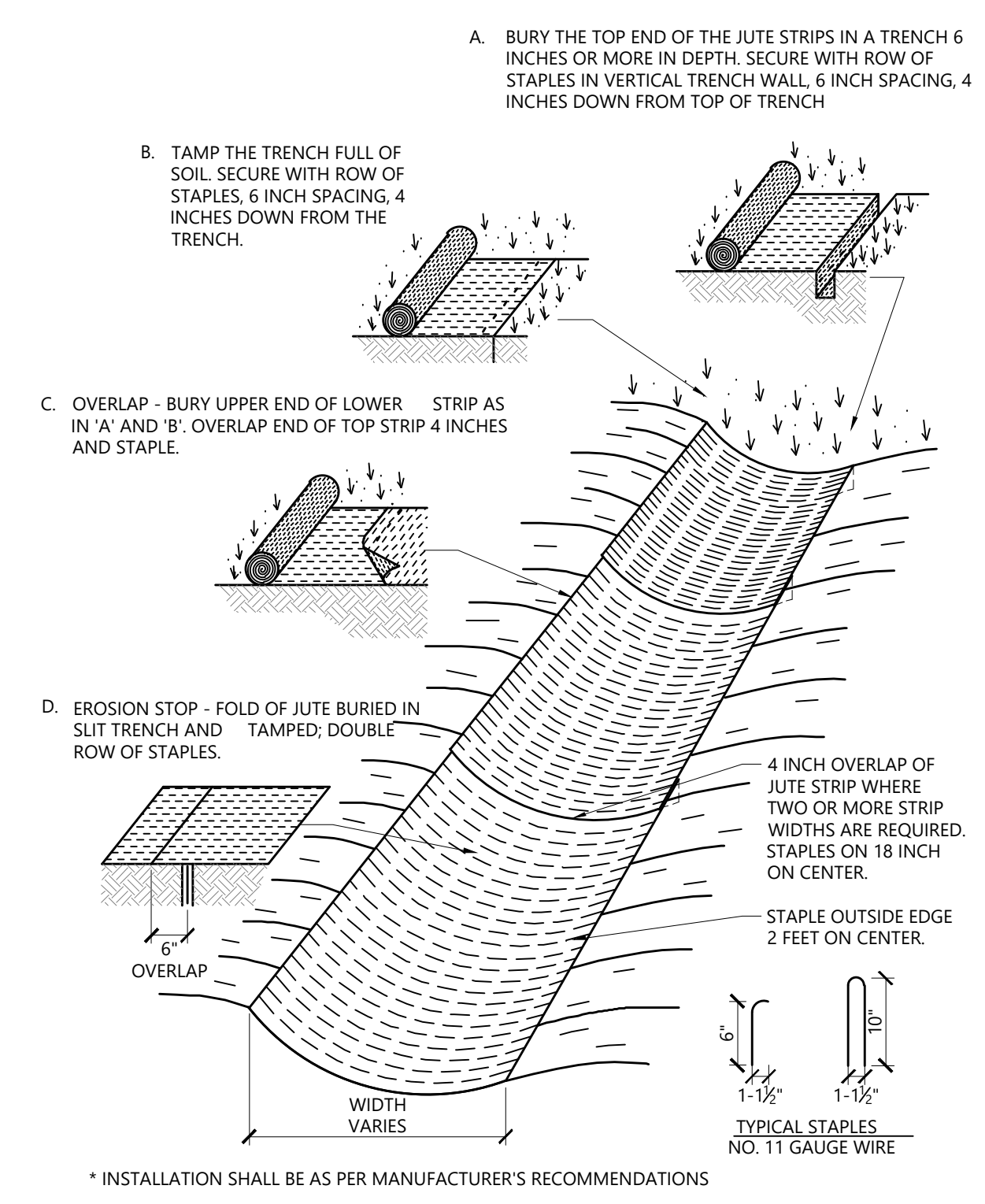
**Waterbars - For Cross-Country Utility Clearings ER-03**  
N.T.S. Source: VHB



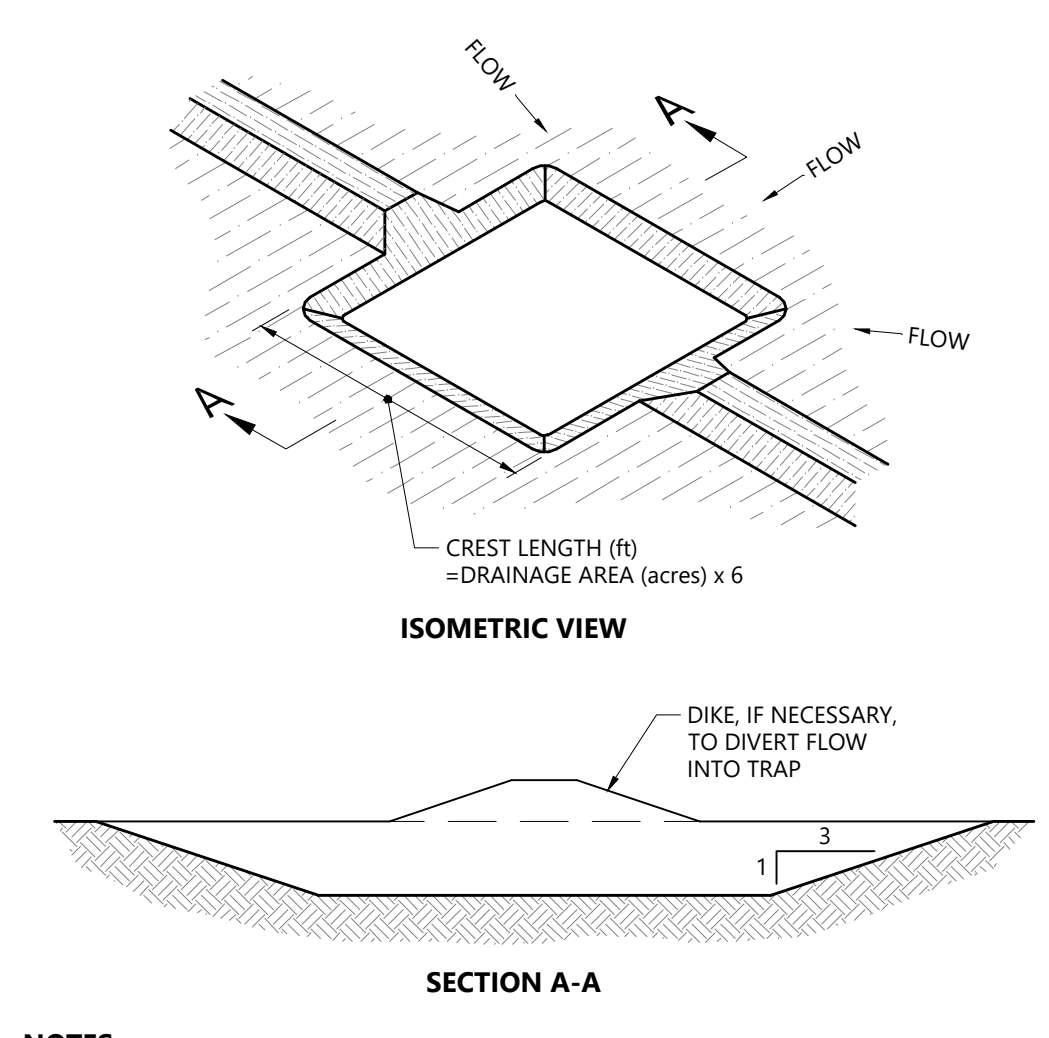
ROAD SLOPE PERCENT	WATER BAR PROFILES
5	150
10	100
15 AND OVER	50

- Notes:**
1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
  2. STRIP EXISTING SOD FROM BASE OF DIVERSION RIDGE PRIOR TO PLACING FILL.
  3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
  4. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
  5. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL CONDITIONS ARE NOT ADEQUATE.
  6. INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.
  7. WATERBAR SLOPE SHALL NOT EXCEED 2% AS SHOWN.
  8. FEDERAL, STATE, AND/OR LOCAL REQUIREMENTS MAY OVERRIDE THESE SPECIFICATIONS AND/OR THE USE OF THIS MEASURE.

**Typical Water Bar Detail ER-04**  
N.T.S. Source: VHB LD...

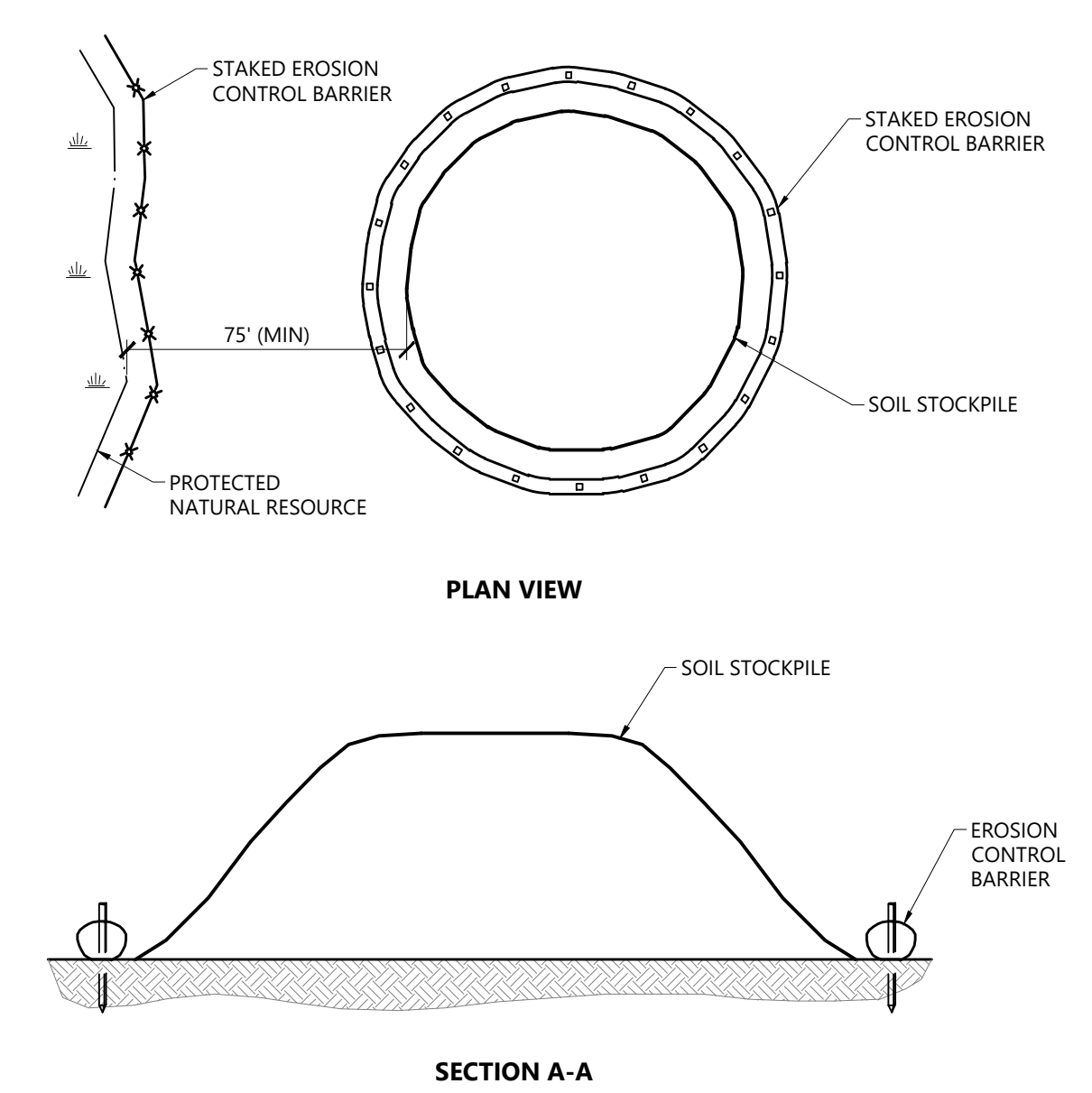


**Erosion Control Blanket Swale Installation 1/16**  
N.T.S. Source: VHB LD\_681



- NOTES:**
1. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
  2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
  3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
  4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
  5. THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.
  6. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
  7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
  8. TEMPORARY SEDIMENT TRAPS SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES. ENSURE DOWN GRADIENT SLOPE IS WELL VEGETATED.

**Temporary Sediment Trap**  
N.T.S. Source: VHB



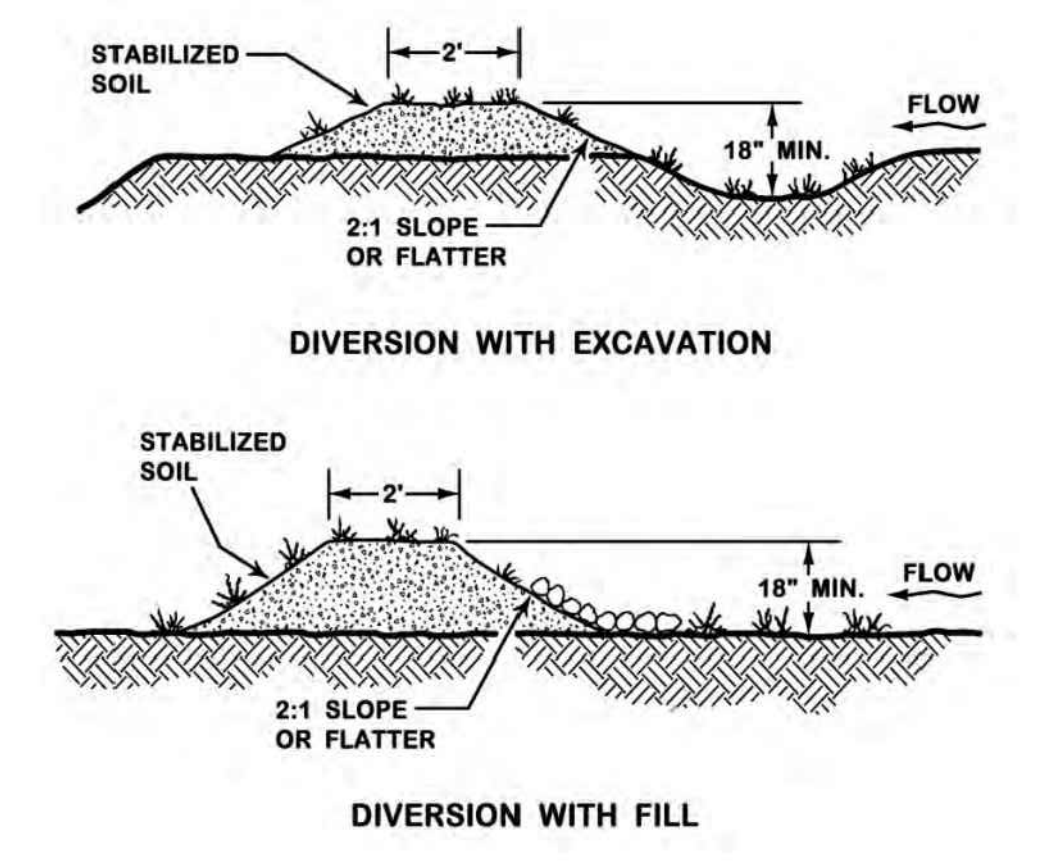
- NOTES:**
1. STOCKPILES SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES.
  2. STOCKPILES REMAINING UNSTABILIZED FOR A PERIOD OF MORE THAN 15 DAYS SHALL BE TEMPORARILY MULCHED.
  3. SOIL STOCKPILES SHALL BE INSPECTED WEEKLY AT A MINIMUM AND BEFORE AND WITHIN 24 HOURS AFTER ALL STORM EVENTS (RAINFALL). IF REPAIR IS REQUIRED, REPAIR WORK SHALL BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPs OR SIGNIFICANT REPAIR OF BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

**Soil Stockpile Sediment Control**  
N.T.S. Source: VHB

MULCH MATERIAL AND APPLICATION			
MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ.-FT.	DEPTH OF APPLICATION
WOOD CHIPS OR SHAVINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 - 900 LBS	10 - 20 TONS 2-4" 2"
WOOD FIBER CELLULOSE (PARTIALLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS 1/4"
GRAVEL, CRUSHED STONE OR SLAG	WASHED; SIZE 2B OR 3A = 1/2"	9 CY	405 CY 3"
HAY OR STRAW	AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS	90 - 100 LBS. 2-3 BALES	2 TONS (100-120 BALES) COVER ABOUT 90% SURFACE
COMPOST	UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE	3 - 9 CY	3 - 9 CY 1-3"
Erosion Control Mix	WELL-GRADED MIXTURE OF PARTICLE SIZES. ORGANIC CONTENT BETWEEN 80-100% DRY WEIGHT. PARTICLE SIZE SHALL PASS # 6" SCREEN (100%)	**Slope 3(H):1(Vert.) = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. ***Slope between 3(H):1(Vert.) and 2(H):1(Vert.) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. ***Slope steeper than 2(H):1(Vert.) applicability to specific site and mulch depth to be reviewed and approved prior to use by OPSC or EPSC Specialist	

- Notes:**
1. APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL FOR MULCH TO BLOW AWAY.
  2. MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES. (SEEDS OR SEEDLINGS)
  3. TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.

**Mulch Table EV-08**  
N.T.S. Source: VHB LD...



- NOTES:**
1. RUNOFF SHALL BE DIVERTED FROM STORMWATER ROADSIDE BUFFERS THAT ARE CONSTRUCTED ON FILL OR RESHAPED SLOPES UNTIL A DENSE SOD IS ESTABLISHED, OR THOSE AREAS MUST BE PROTECTED BY A 2" LAYER OF EROSION CONTROL MIX OR OTHER WOODWASTE MATERIAL APPROVED BY MAINEDEP BEFORE STORMWATER IS DIRECTED TO IT.
  2. ALL DIVERSION DIKES AND BERMS SHOULD BE COMPACTED AND STABILIZED WITH MATERIAL THAT IS APPROPRIATE FOR THE SLOPE AND EXPECTED RUNOFF, SUCH AS EROSION CONTROL BLANKETS, GRAVEL OR RIPRAP.

**Runoff Diversion**  
N.T.S. Source: Maine DEP Erosion and Sediment Control BMP Manual

**Sugarloaf Mtn Corp  
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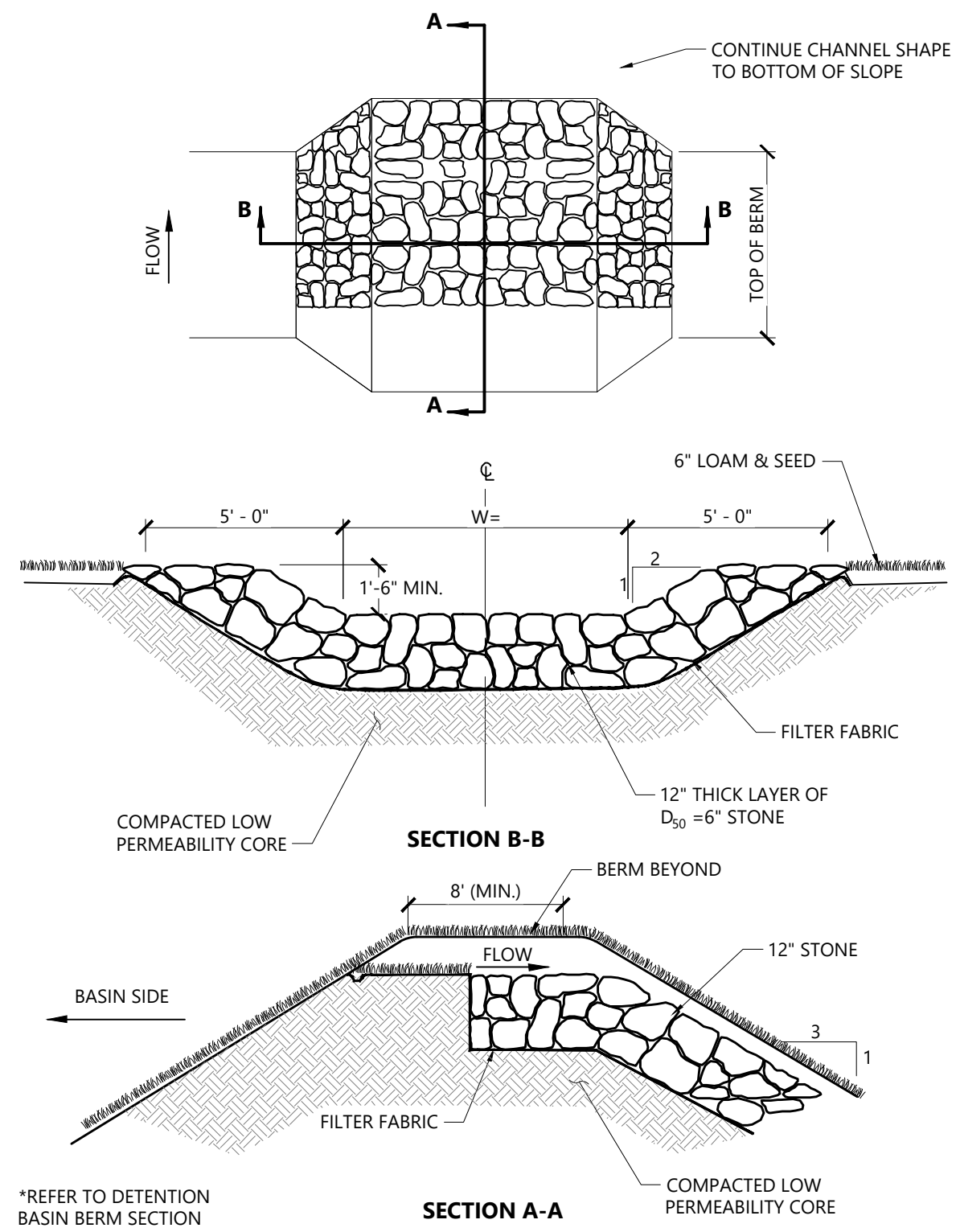
No.	Revision	Date	App'd.

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Drawing Title  
**Erosion Prevention and  
Sediment Control Details**

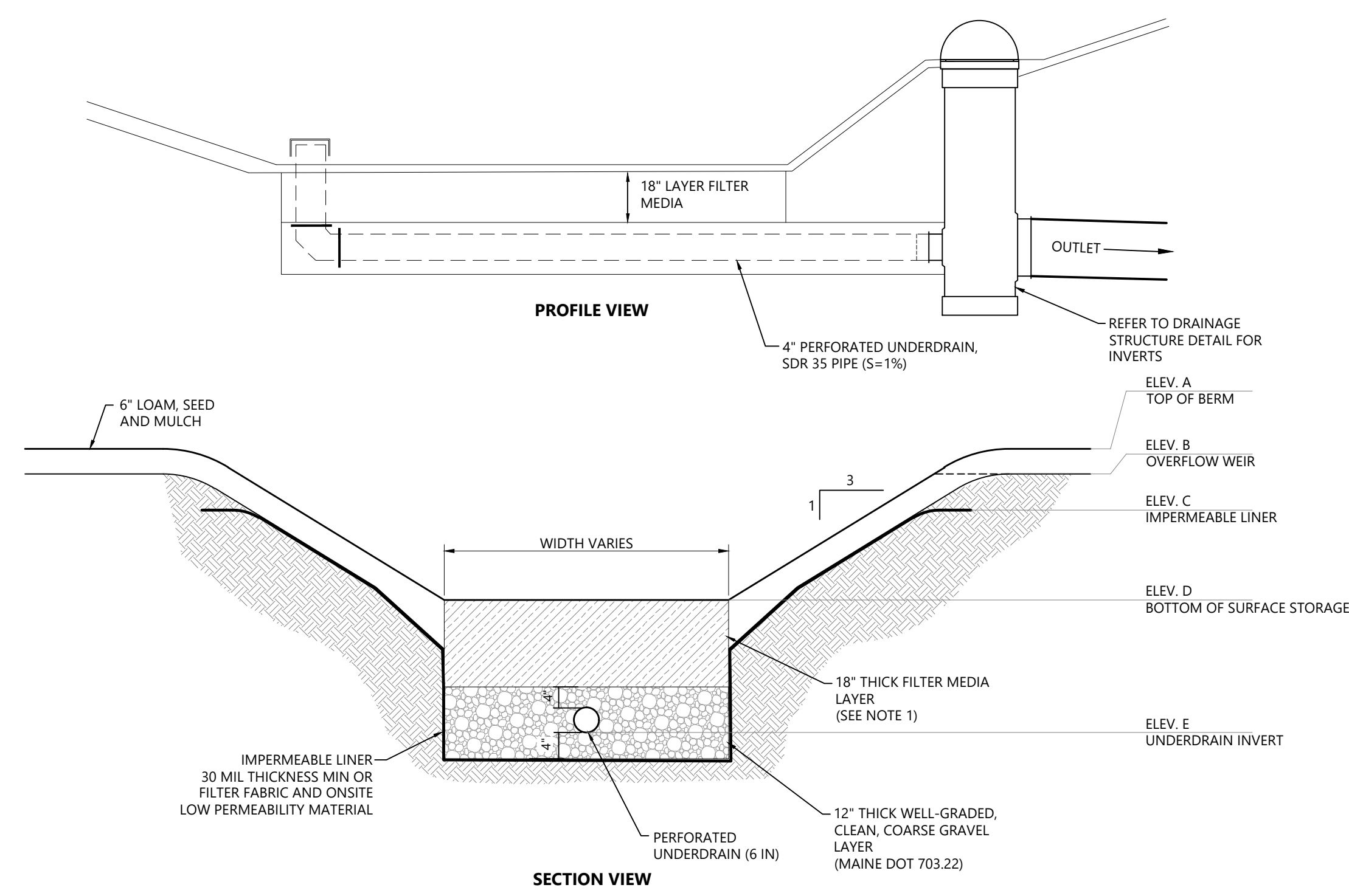
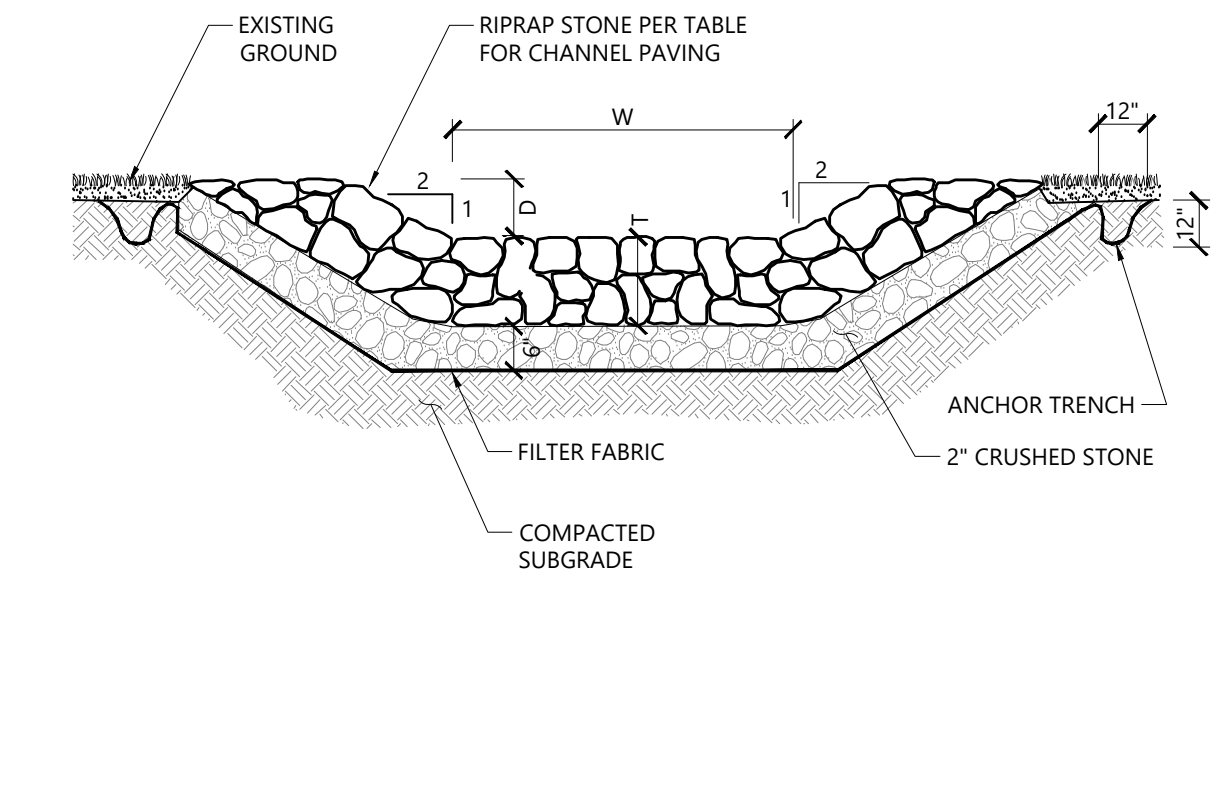
Designed by: **RWN** Checked by: **PS**  
Issued for: \_\_\_\_\_ Date: \_\_\_\_\_  
Review: \_\_\_\_\_ September 23, 2021

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**C1.05**  
Sheet # of 58  
Project Number  
55310.01





CHANNEL DESIGNATION	W	T	D	STONE DIA. (D <sub>50</sub> )
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ELEVATION TABLE					
VSF #	A	B	C	D	E

- NOTES**
- VEGETATED SOIL FILTER REQUIREMENTS PER MAINE DEP CHAPTER 500, LATEST EDITION, MINIMUM REQUIREMENTS PER THE DEVELOPMENT:
    - DRAIN TIME = 24-48 HOURS, ASSUMES AN RATE OF 3 INCHES/HOUR.
  - FILTER MEDIA SHALL CONSIST (BY VOLUME) OF:
    - 50% SAND (ASTM C-33 CONCRETE SAND),
    - 20% SANDY LOAM TO FINE SANDY LOAM CONFORMING TO THE FOLLOWING GRADATION:
 

WEIGHT	PERCENT PASSING BY
NO. 4	75-95
NO. 10	60-90
NO. 40	35-85
NO. 200	20-70
200 (CLAY SIZE)	< 2.0
    - 30% MATURE COMPOSTED WOODY FIBERS AND FINE SHREDDED BARK MULCH, SUPERHUMUS OR EQUIVALENT.
  - RESULTING MIXTURE SHALL HAVE 8% TO 12% PASSING THE NO. 200 SIEVE AND A CLAY CONTENT OF LESS THAN 2%.
  - FILTER MEDIA SHALL BE FIELD TESTED TO INSURE DRAINAGE WITHIN 24 TO 48 HOURS AND HAVE SUFFICIENT FINES TO ENSURE FILTRATION OF FINE PARTICLES. GRADATION SHALL BE ADJUSTED, IF REQUIRED, TO MEET THE REQUIRED DRAIN DOWN TIME. ADJUSTED GRADATIONS AND DRAINAGE TIME SHALL BE SUBMITTED TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.
  - IMPERMEABLE LINER SHALL CONSIST OF HIGH-STRENGTH 30 MIL POLYETHYLENE MEMBRANE WITH BONDED SEAMS AND TEXTURED SURFACE OR FILTER FABRIC WITH APPROVED ON-SITE LOW PERMEABILITY MATERIAL.
  - BOTTOM OF BASIN SHALL BE SEED WITH A CONSERVATION TYPE SEED MIX AND MULCHED.
  - PERFORATED UNDERDRAIN PIPE SHALL BE LAID AS SHOWN IN PLAN VIEW, NO GREATER THAN 15' ON CENTER, TO DRAIN THE ENTIRE FILTER AREA.

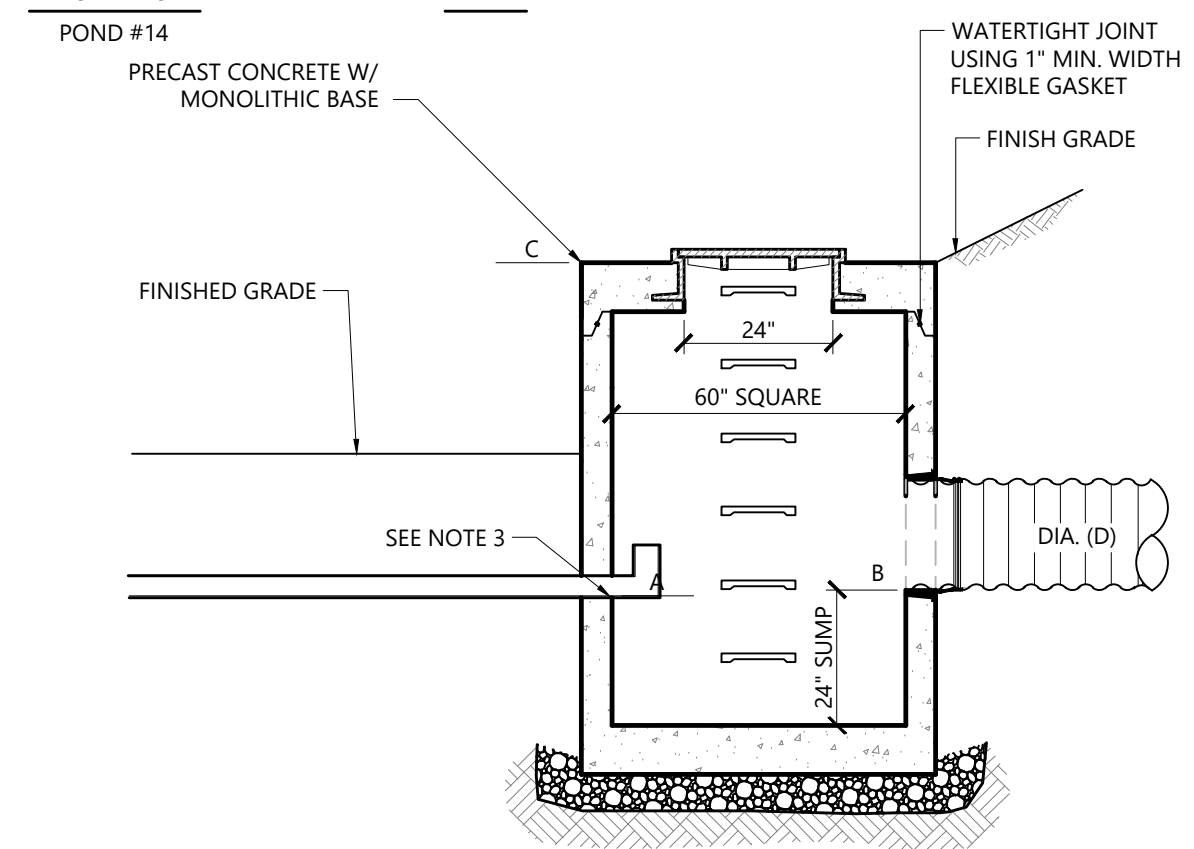
**Overflow Stone Spillway** 1/16  
N.T.S. Source: VHB LD\_161

**Riprap Channel** 1/16  
N.T.S. Source: VHB LD\_170

**Vegetated Soil Filter (VSF) Detail** 1/16  
N.T.S. Source: VHB

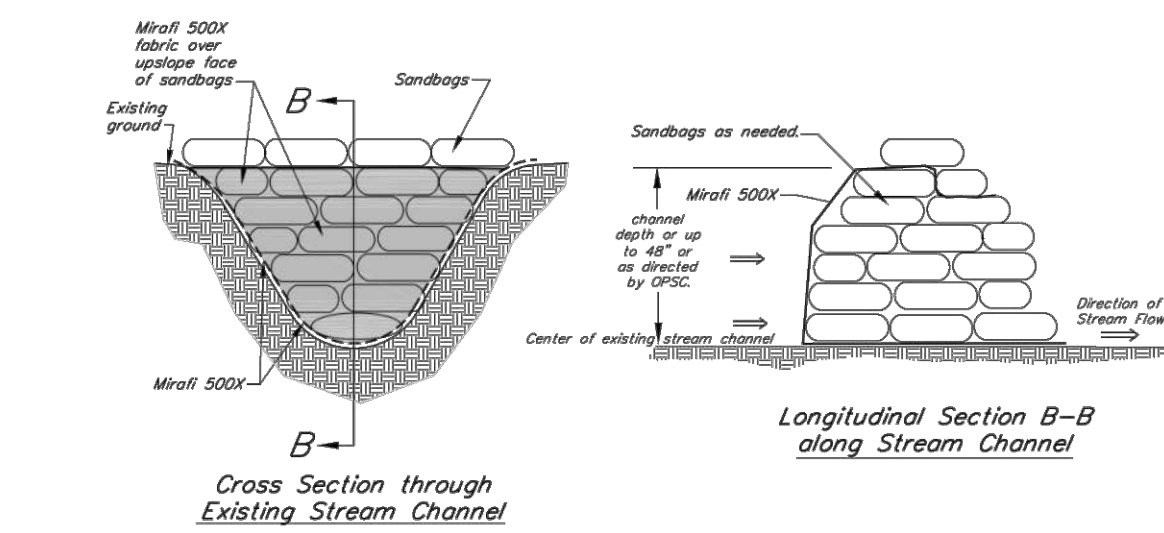
DIMENSIONS TABLE				
DESIGNATION	A	B	C	D

DESIGNATION	A	B	C	D	ORIFICE "A" DIAMETER
POND #1	303"	303"	305.5"	36"	4"
POND #11					
POND #13					
POND #14					



- NOTES:**
- ALUMINUM "DROP-FRONT" MANHOLE STEPS, CAST IN PLACE, SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
  - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER
  - MANHOLE OPENING SHALL BE SET IN STRUCTURE COVER AS ALIGNED WITH LADDER ACCESS.

**Wet Pond Outlet Control Structures** 1/16  
N.T.S. Source: VHB LD\_171

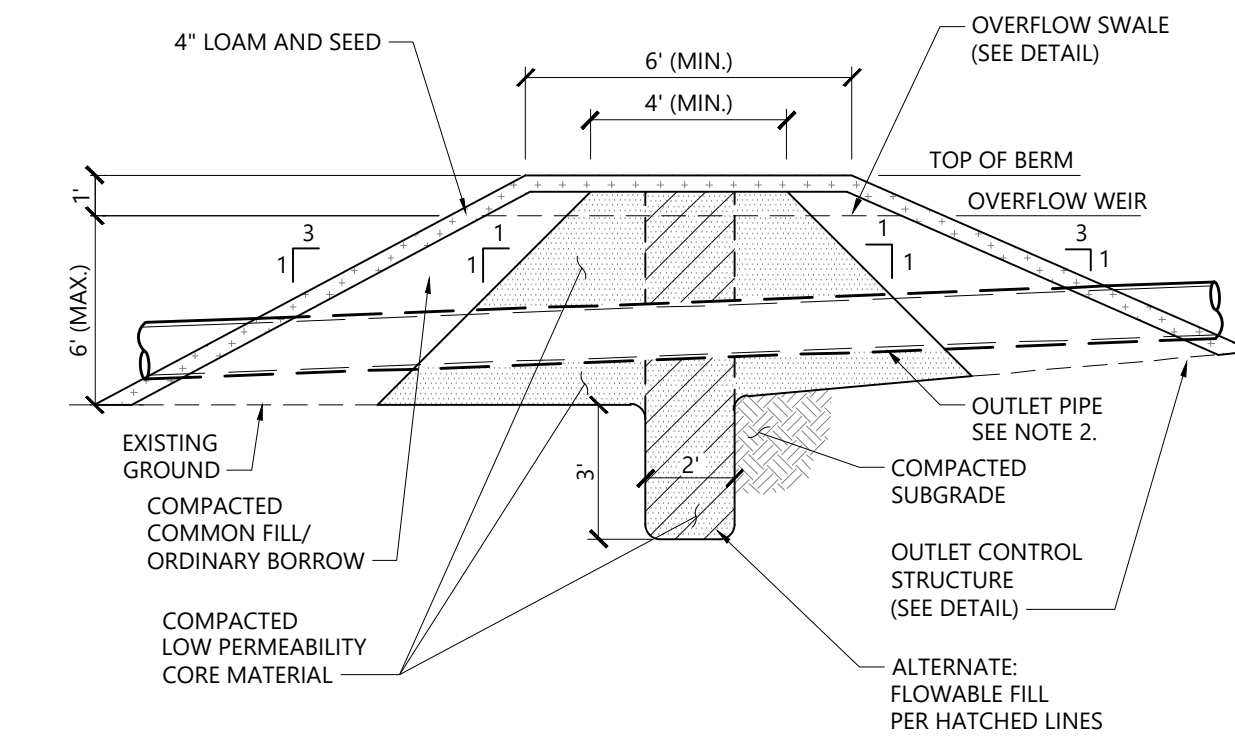


**STREAM PUMP BYPASS NOTES:**

- When excavation work is performed in a stream channel with an active stream flow, the stream flow shall be collected and pumped downstream from the work area in accordance with the Stream Culvert Installation Procedure Plan, notes, and details. A sandbag dike shall be installed in the stream channel on the up-drift side of the work area. The flow collected above the sandbag dike shall be pumped to a storm pool on the down-drift side of the work area. The storm pool shall be located at a location approved by the DPSC and/or the DPSC consultant such that the flow returning from the storm pool to the stream channel free through rock dikes or baffle.
- The Contractor shall have a pre-construction meeting with the DPSC, Statefish and the DPSC to review the Erosion Prevention and Sediment Control measures and procedures to be employed for the work in the stream bed and the planned de-watering procedures. This meeting shall occur at least 2 days prior to the stream culvert installation.
- Whenever any work within a stream bed shall be done during low flow conditions, the Contractor shall comply with the work schedule with the DPSC at least 48 hours prior to the work. New culvert, ramp, or outlet and channel lining (if required) shall be completed in one day. If work can not be completed in one day, the stream system must be returned overnight.
- Contractor shall have all equipment onsite the day before construction, including a backup pump with a capacity of 2 times the estimated flow. Sediment trap(s) for trench de-watering shall be constructed the day before.
- Install sandbag dike at upstream and downstream ends of proposed culverts. Install pumps at upstream side of dike. Pump capacity shall be 2 times estimated flow. Keep water end of pump piping 12" off bottom of the stream, when possible.
- Use a separate de-watering pump for pumping out sediment laden water in excavation for culvert. Pump all sediment laden water into sediment bag or trap. Frequently clean out sediment trap during construction.

**Stream Channel Sandbag Dike Detail** EV-02  
N.T.S. Source: VHB LD\_

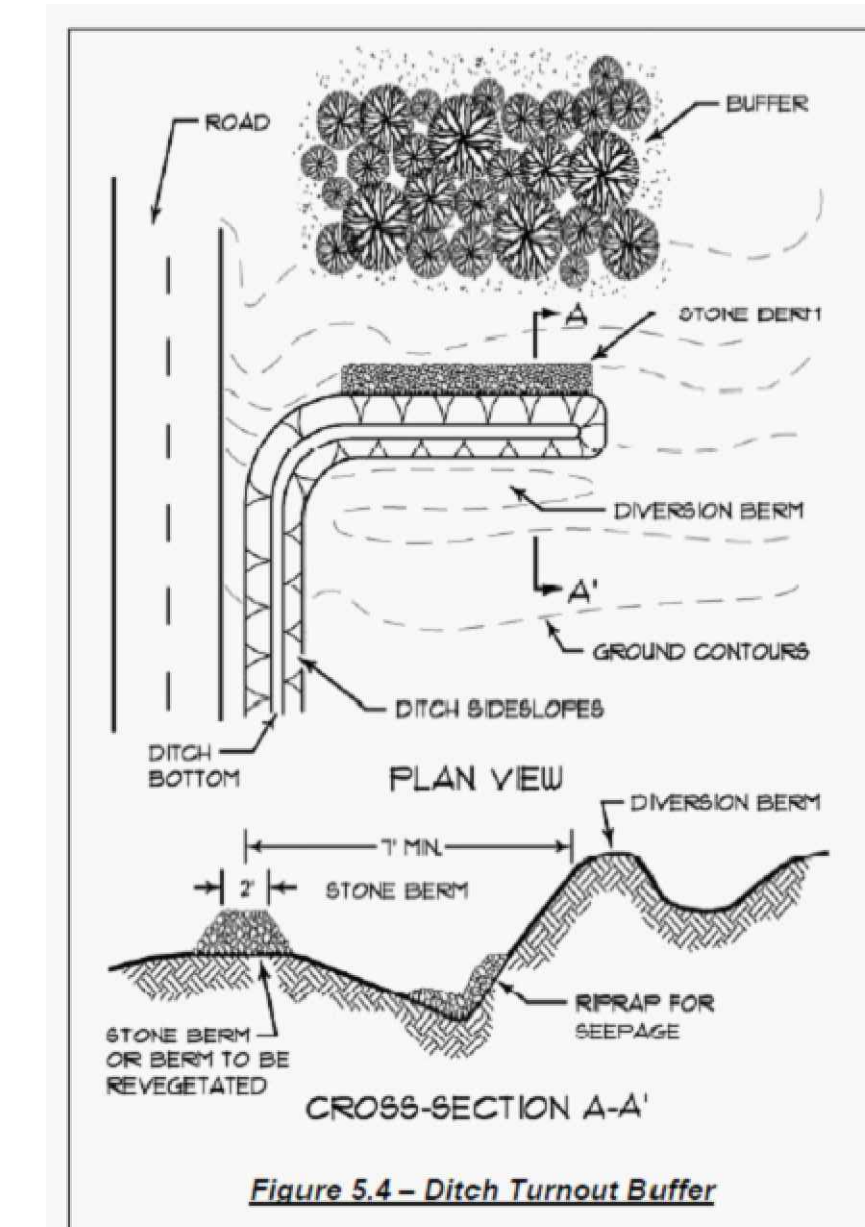
**Stream Culvert Installation Procedure** EV-07  
N.T.S. Source: VHB LD\_



**NOTES**

- LOW PERMEABILITY CORE MATERIAL IS CONTINUOUS FOR THE FULL LENGTH OF THE EMBANKMENT.
- WHERE PIPES PENETRATE THE LOW PERMEABILITY CORE, PIPE SHALL BE BEDDED IN THE LOW PERMEABILITY CORE MATERIAL.
- THE BERM SECTION IS SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

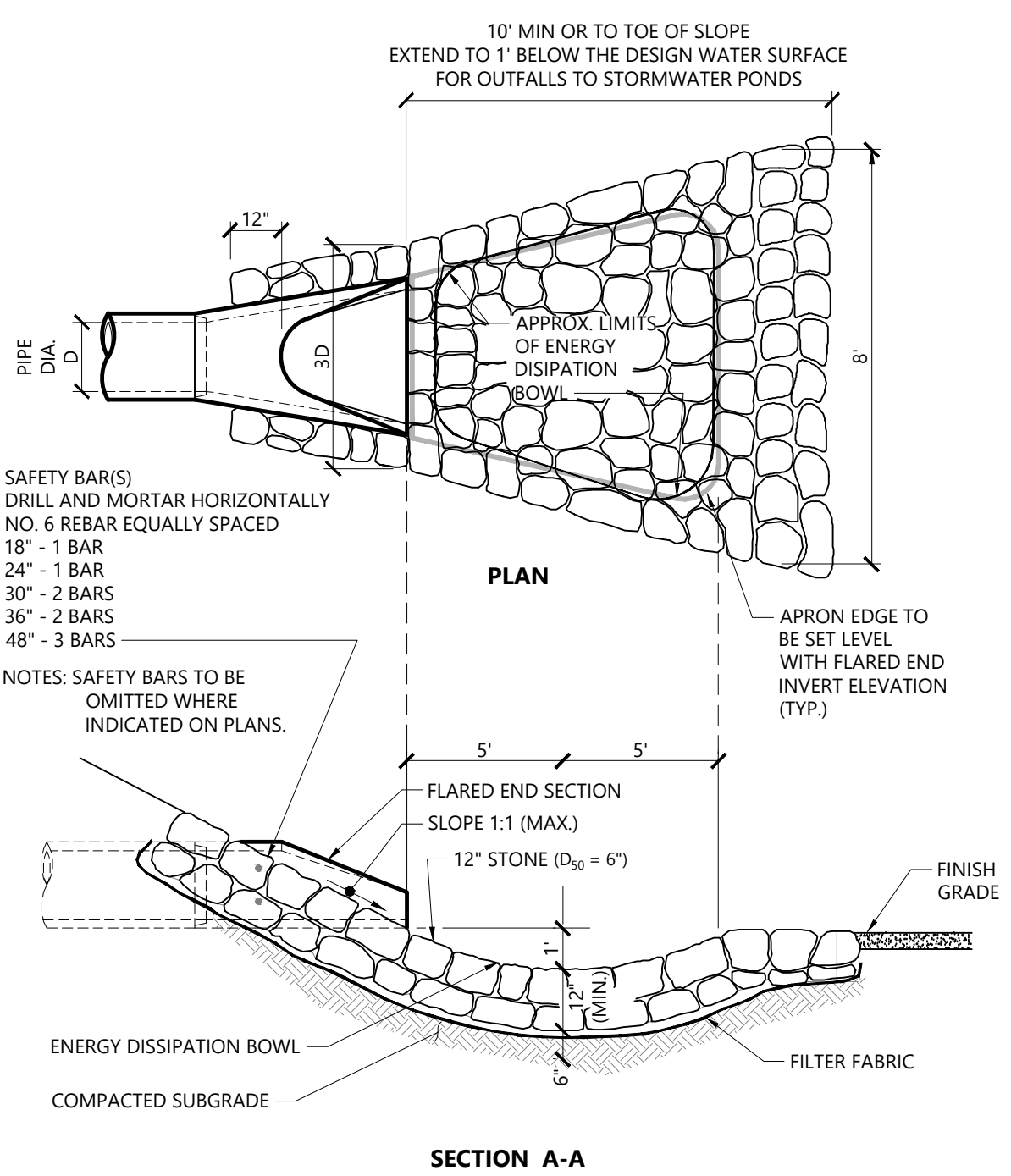
**Detention Basin Berm Section** 1/16  
N.T.S. Source: VHB LD\_160



**Figure 5.4 - Ditch Turnout Buffer**

- Stone Berm Specifications:** The stone berm to which the ditch turn-out delivers the runoff must be at least 20 feet in length and must be constructed along the contour. It must be at least one-foot high and two feet across the top with 2:1 side slopes.
- Stone Size:** The stone must be coarse enough that it will not clog with sediment. Stone for stone bermed level top spreaders must consist of sound durable rock that will not disintegrate by exposure to water or weather. Fieldstone, rough quarried stone, blasted ledge rock or tailings may be used. The rock must be well graded with a median size of approximately 3 inches and a maximum size of 6 inches. See Table 5.4 above.

**Ditch Turnout Buffer** Source: MDEP



**Flared End Section (FES) with Stone Protection** 1/16  
N.T.S. Source: VHB LD\_134

**Sugarloaf Mtn Corp  
West Mountain  
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Drawing Number

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