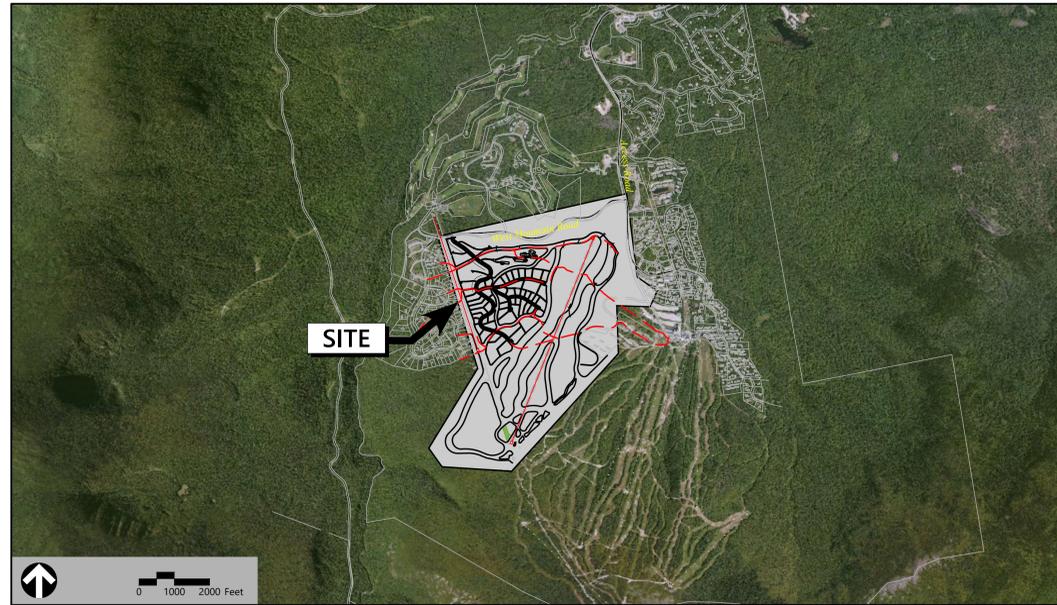


Site Plans

Issued for	Review
Date Issued	April 29, 2022
Latest Issue	April 29, 2022

Sugarloaf West Mountain Development

5092 Sugarloaf Access Road
Carrabassett Valley, ME 04947



Owner

Sugarloaf Mountain Corporation
c/o Boyne USA, Inc.
3951 Charlevoix Avenue
Petoskey, MI 49770

Applicant

Sugarloaf Mountain Corporation
c/o Boyne USA, Inc.
3951 Charlevoix Avenue
Petoskey, MI 49770

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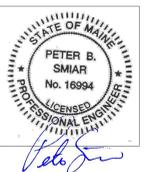
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Reference Drawings

SD-1 through SD-8 Subdivision Plan of Land, by VHB, Dated August 20, 2021

Notes

Drawings indicated with ~~strike-through~~ are not included with these revised submitted plans.



Legend

Exist.	Prop.	Exist.	Prop.	
				PROPERTY LINE
				PROJECT LIMIT LINE
				RIGHT-OF-WAY/PROPERTY LINE
				EASEMENT
				BUILDING SETBACK
				PARKING SETBACK
				BASELINE
				CONSTRUCTION LAYOUT
				ZONING LINE
				TOWN LINE
				LIMIT OF DISTURBANCE
				WETLAND LINE WITH FLAG
				FLOODPLAIN
				BORDERING LAND SUBJECT TO FLOODING
				WETLAND BUFFER ZONE
				NO DISTURB ZONE
				200' RIVERFRONT AREA
				NRCS SOIL LAYER BOUNDARY
				MAYFLY SALAMANDER
				PERENNIAL STREAM
				INTERMITTENT STREAM
				STREAM BUFFER
				WETLAND
				WETLAND OF SPECIAL SIGNIFICANCE
				GRAVEL ROAD
				EDGE OF PAVEMENT
				BITUMINOUS BERM
				BITUMINOUS CURB
				CONCRETE CURB
				CURB AND GUTTER
				EXTRUDED CONCRETE CURB
				MONOLITHIC CONCRETE CURB
				PRECAST CONC. CURB
				SLOPED GRAN. EDGING
				VERT. GRAN. CURB
				LIMIT OF CURB TYPE
				SAWCUT
				BUILDING
				BUILDING ENTRANCE
				LOADING DOCK
				BOLLARD
				DUMPSTER PAD
				SIGN
				DOUBLE SIGN
				STEEL GUARDRAIL
				WOOD GUARDRAIL
				PATH
				TREE LINE
				WIRE FENCE
				FENCE
				STOCKADE FENCE
				STONE WALL
				RETAINING WALL
				STREAM / POND / WATER COURSE
				DETENTION BASIN
				HAY BALES
				SILT FENCE
				SILT SOCK / STRAW WATTLE
				MINOR CONTOUR
				MAJOR CONTOUR
				PARKING COUNT
				COMPACT PARKING STALLS
				DOUBLE YELLOW LINE
				STOP LINE
				CROSSWALK
				ACCESSIBLE CURB RAMP
				ACCESSIBLE PARKING
				VAN-ACCESSIBLE PARKING

Abbreviations

General	
ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DVCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EX	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL
Utility	
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
GI	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I=	INVERT ELEVATION ON PLANS
LP	LIGHT POLE
MES	METAL END SECTION
PIV	POST INDICATOR VALVE
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
RIM=	RIM ELEVATION
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UG	UNDERGROUND
UP	UTILITY POLE

Notes

- General**
- CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
 - ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
 - AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC) SHALL RECEIVE (#) INCHES LOAM AND SEED.
 - WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
 - WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
 - UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
 - TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
 - IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
 - CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
 - DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
 - THIS PROJECT IS SUBJECT TO A PERMIT FROM MAINE DEP. THE CONTRACTOR SHALL READ, BE FAMILIAR WITH, AND SHALL FOLLOW THE MAINE EROSION AND SEDIMENT CONTROL BMPs MANUAL (LATEST EDITION) AND SHALL BE ACCOUNTABLE TO THE THIRD PARTY INSPECTOR FOR THE PROJECT AND THE MAINE DEP IN ACCORDANCE WITH MAINE DEP REGULATIONS.

Utilities

- THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
 - PAVEMENTS AND CONCRETE SURFACES: FLUSH
 - ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
 - LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
- THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
- UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
 - WATER PIPES SHALL BE [TYPE(S)]
 - SANITARY SEWER PIPES SHALL BE SDR35 POLYVINYL CHLORIDE (PVC) SEWER PIPE
 - STORM DRAINAGE PIPES SHALL BE DUAL WALL CORRUGATED HDPE UNLESS OTHERWISE NOTED ON PLANS
 - PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
- ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4" MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

Layout and Materials

- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- CURB RADII ARE (#) FEET UNLESS OTHERWISE NOTED.
- CURBING SHALL BE [TYPE] WITHIN THE SITE UNLESS OTHERWISE INDICATED ON THE PLANS.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
- PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LAND SURVEYOR.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.

Demolition

- 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. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
- EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
- CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.
- UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OR LIABILITY WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

Erosion Control

- 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.
- CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 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.
- CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- 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 AND SEWER SYSTEMS.

Existing Conditions Information

- BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY [IWHOM], [AND FROM PLANS OF RECORD]. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY [IWHOM], DURING [DATE(S)]. [OTHER SERVICES].
 - DELINEATION OF THE WETLANDS AND PLACEMENT OF THE FLAGS WAS PERFORMED BY: VHB
 - FLAGS MARKING THE WETLANDS WERE LOCATED BY: [IWHOM], [HOW]
- TOPOGRAPHY: ELEVATIONS ARE BASED ON [NGVD DATUM].
- GEOTECHNICAL DATA INCLUDING TEST PIT AND BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM [NAME].

Document Use

- 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. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

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		April 29, 2022	

Not For Construction

General Civil Legend and Notes

Drawing Title

Drawing Number

G-0.01

Sheet 2 of 63

Project Number
55310.01



LEGEND

-  Existing Lift
-  Proposed Lift
-  Proposed Ski Trail
-  Proposed Hiking/Biking Trail
-  Perennial Stream
-  Intermittent Stream
-  Potential Habitat For Northern Salamander / Roaring Brook Mayfly
-  250ft Buffer - Northern Salamander / Roaring Brook Mayfly
-  100ft Design Buffer to Streams
-  Wetlands of Special Significance (VHB)
-  Wetlands (VHB)
-  Potential Bicknell Thrush Habitat
-  Potential Subalpine Fir Forest
-  Regrowth Area



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

Designed by	MKW	Checked by	MPH
Drawn by		Date	April 29, 2022

Not For Construction
Drawing Title
Master Plan

Sheet
LA-1.00

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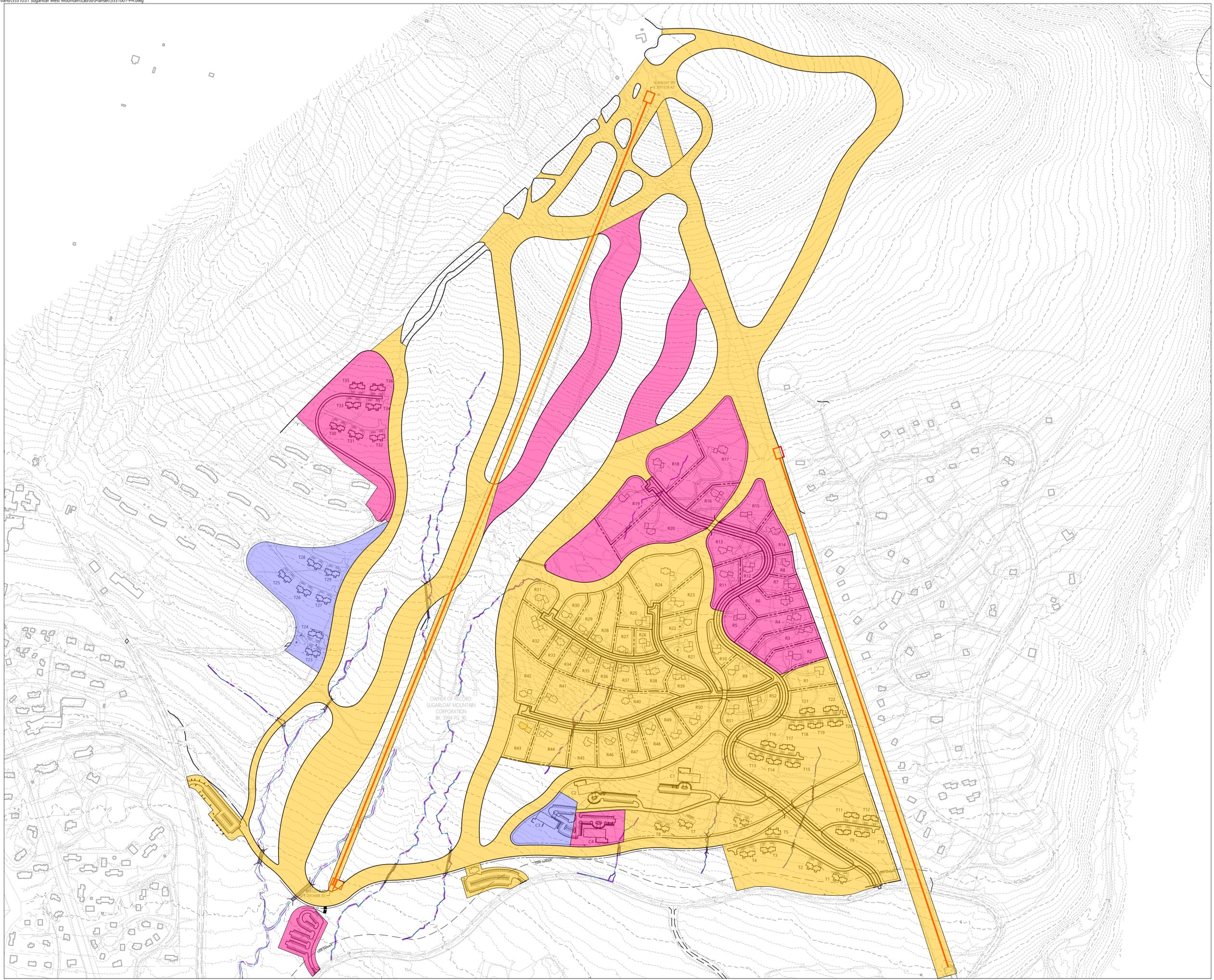
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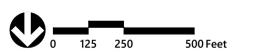


LEGEND

- Phase One
- Phase Two
- Phase Three



OWNER OF RECORD
SUGARLOAF MOUNTAIN
CORPORATION
BK 3994 PG 90

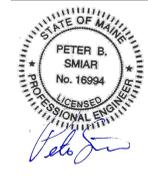


**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

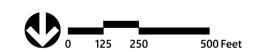
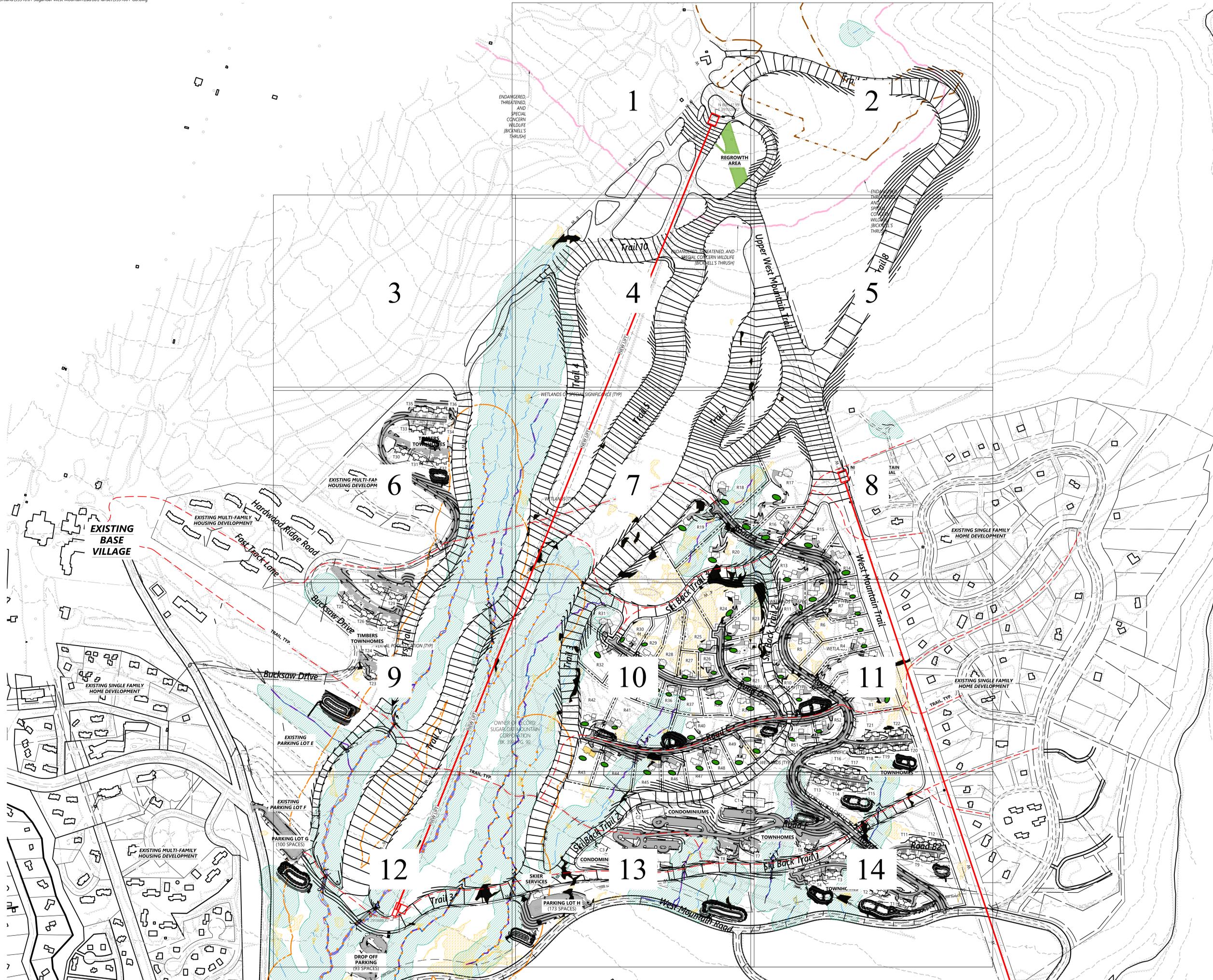
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Designed by: **RWN** Checked by: **PS**
Issued for: Review Date: April 29, 2022

Not For Construction
Drawing Title: **Phasing Plan**



LA-2.00
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Project Number: 55310.01



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

No. Revisions Date App'd.

No.	Revisions	Date	App'd.

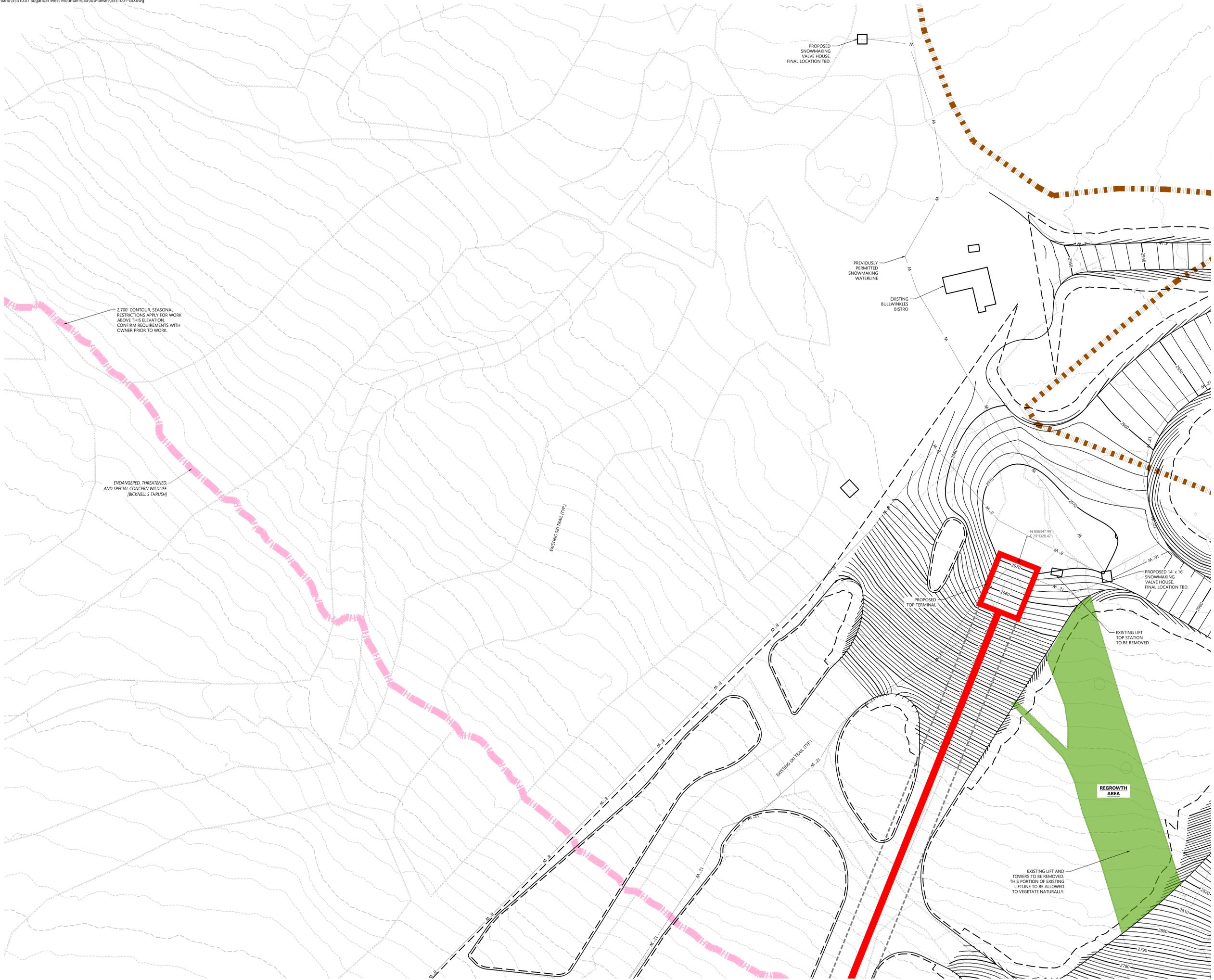
Designed by: **RWN** Checked by: **PS**
Issued for: _____ Date: **April 29, 2022**
Review

Not For Construction

Overall Ski Trails Grading

Drawing Title

STATE OF MAINE
PETER B. SMAR
No. 16994
LICENSED PROFESSIONAL ENGINEER
Peter B. Smar
CG-1.00
Sheet 5 of 63
Project Number 55310.01



2,700' CONTOUR. SEASONAL RESTRICTIONS APPLY FOR WORK ABOVE THIS ELEVATION. CONFIRM REQUIREMENTS WITH OWNER PRIOR TO WORK.

ENDANGERED, THREATENED AND SPECIAL CONCERN WILDLIFE (BICKNELL'S THRUSH)

EXISTING SKI TRAIL (TYP)

PREVIOUSLY PERMITTED SNOWMAKING WATERLINE

EXISTING BULLWINKLES BISTRO

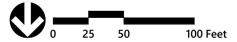
PROPOSED TOP TERMINAL

PROPOSED 14' x 16' SNOWMAKING VALVE HOUSE. FINAL LOCATION TBD.

EXISTING LIFT TOP STATION TO BE REMOVED

REGROWTH AREA

EXISTING LIFT AND TOWERS TO BE REMOVED. THIS PORTION OF EXISTING LIFTLINE TO BE ALLOWED TO VEGETATE NATURALLY.

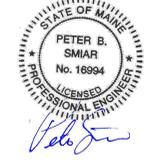


**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

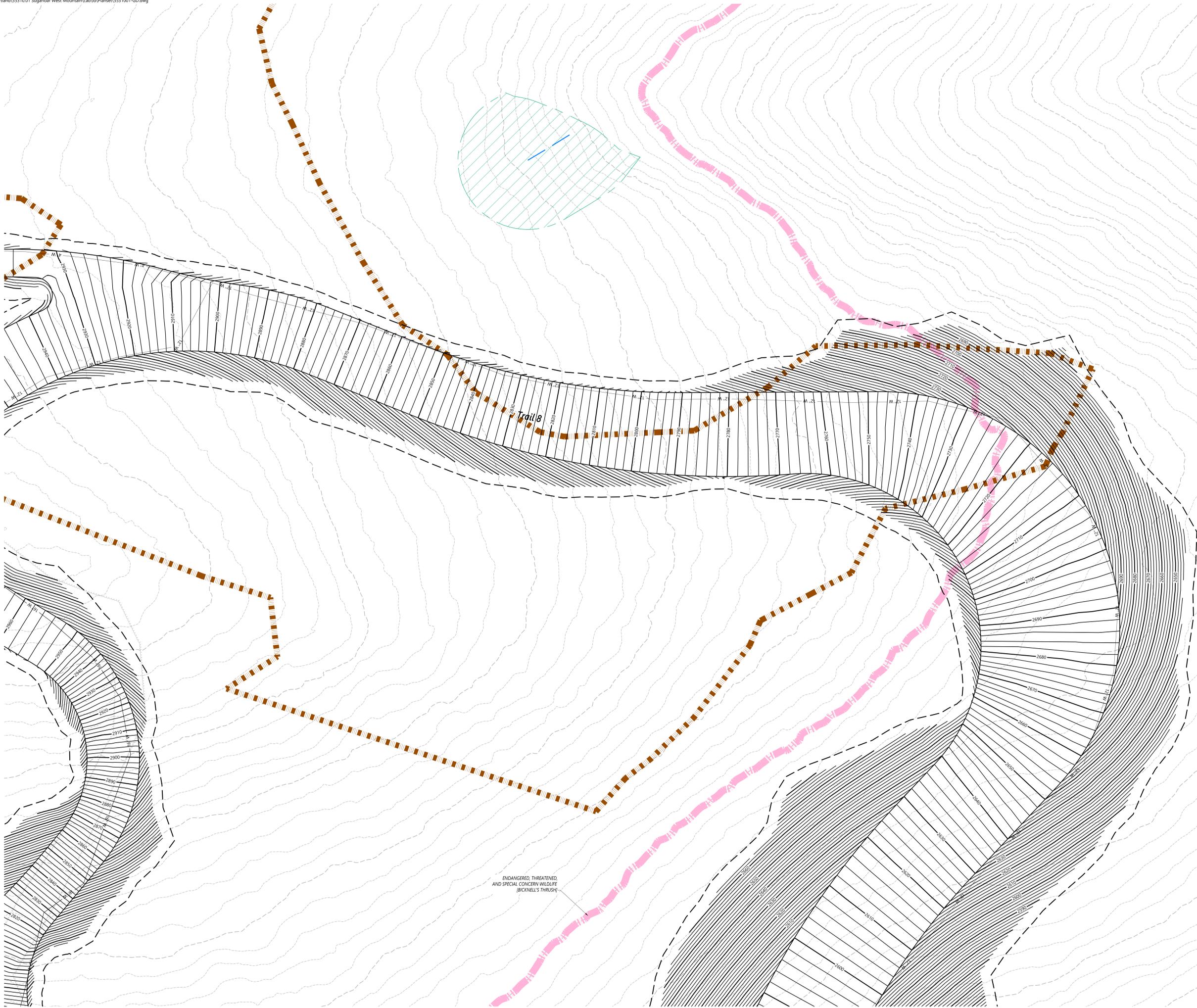
No. Revision Date App'd.

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CG-1.01
Sheet 6 of 63
Project Number 55310.01



ENDANGERED, THREATENED,
AND SPECIAL CONCERN WILDLIFE
(BICKNELL'S THRUSH)

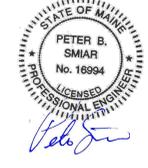


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West Mountain
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5092 Access Road
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No.	Revisions	Date	App'd.

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Ski Trails Grading



CG-1.02

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Project Number
55310.01

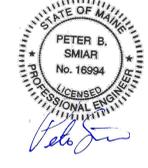


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No.	Revision	Date	App'd.

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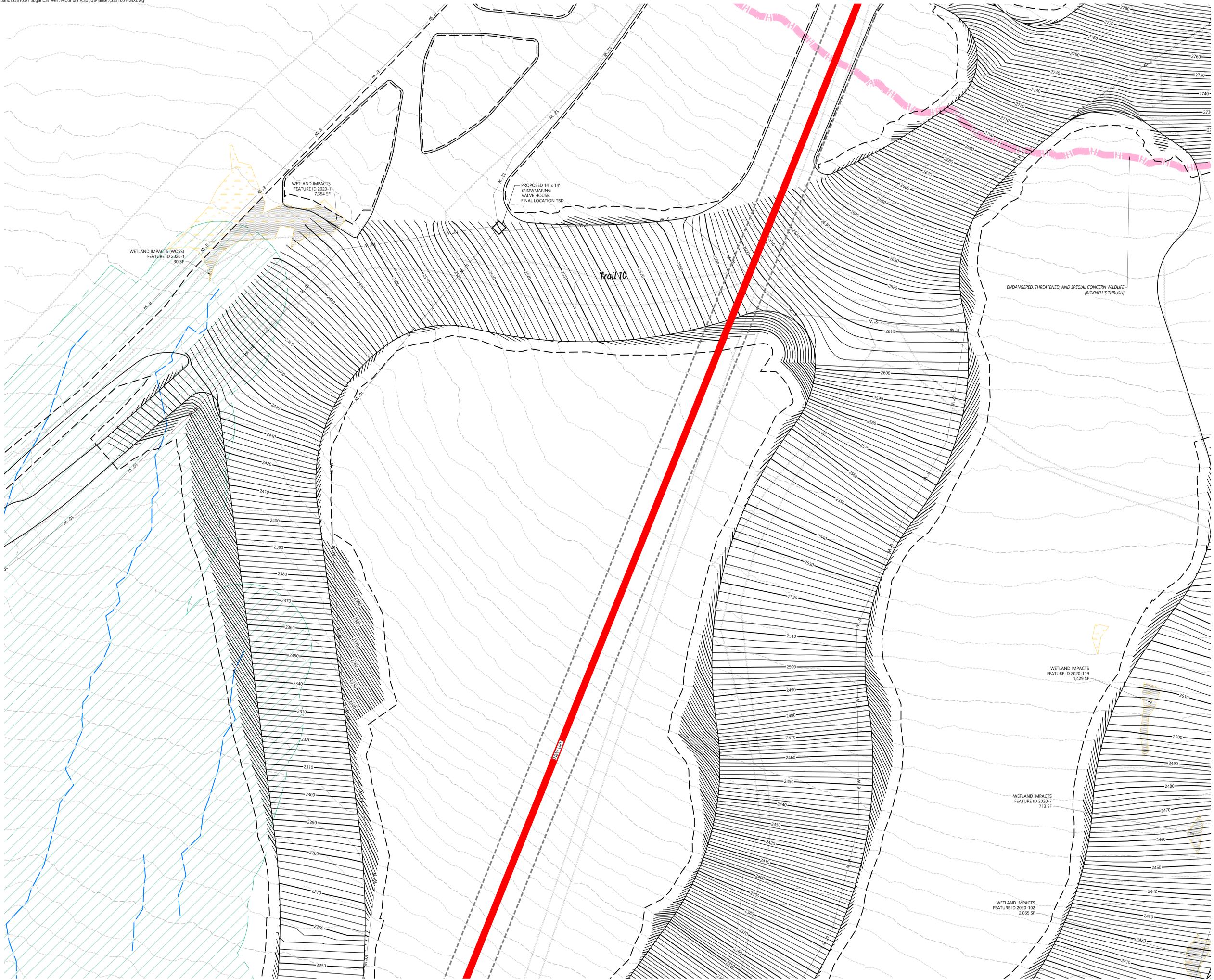
Not For Construction
 Drawing Title: **Ski Trails Grading**



CG-1.03

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Sugarloaf Mtn Corp
West Mountain
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5092 Access Road
Carrabassett Valley, ME 04947

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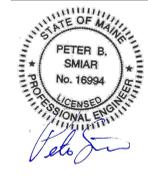
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Not For Construction
Drawing Title:
Ski Trails Grading

Drawing Number
CG-1.04

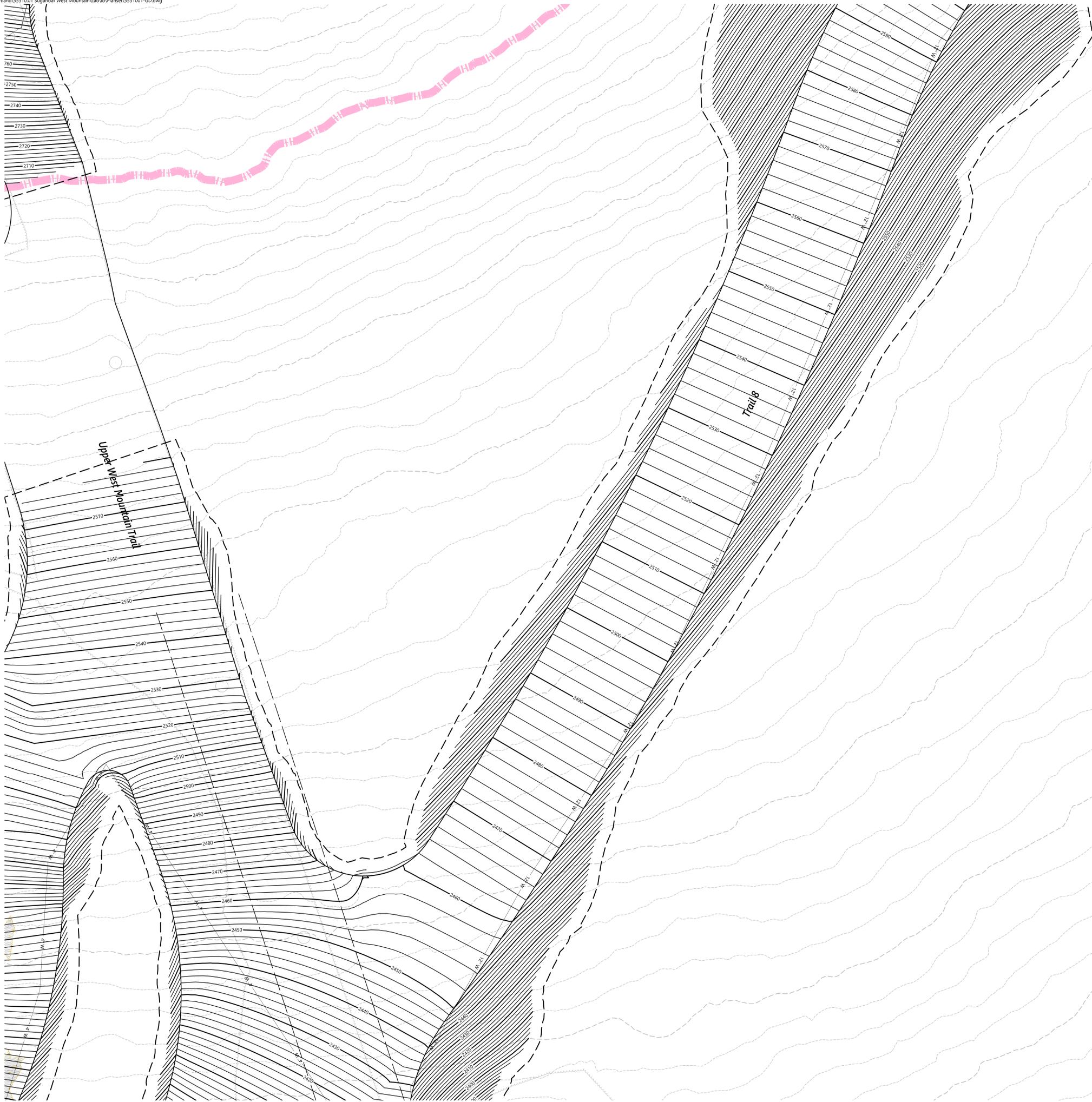
Sheet **9** of **63**

Project Number
55310.01





500 Southborough Drive
Suite 105B
South Portland, ME 04106
207.889.3150

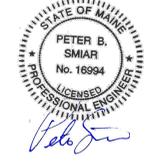


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CG-1.05

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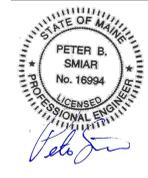
Project Number **55310.01**



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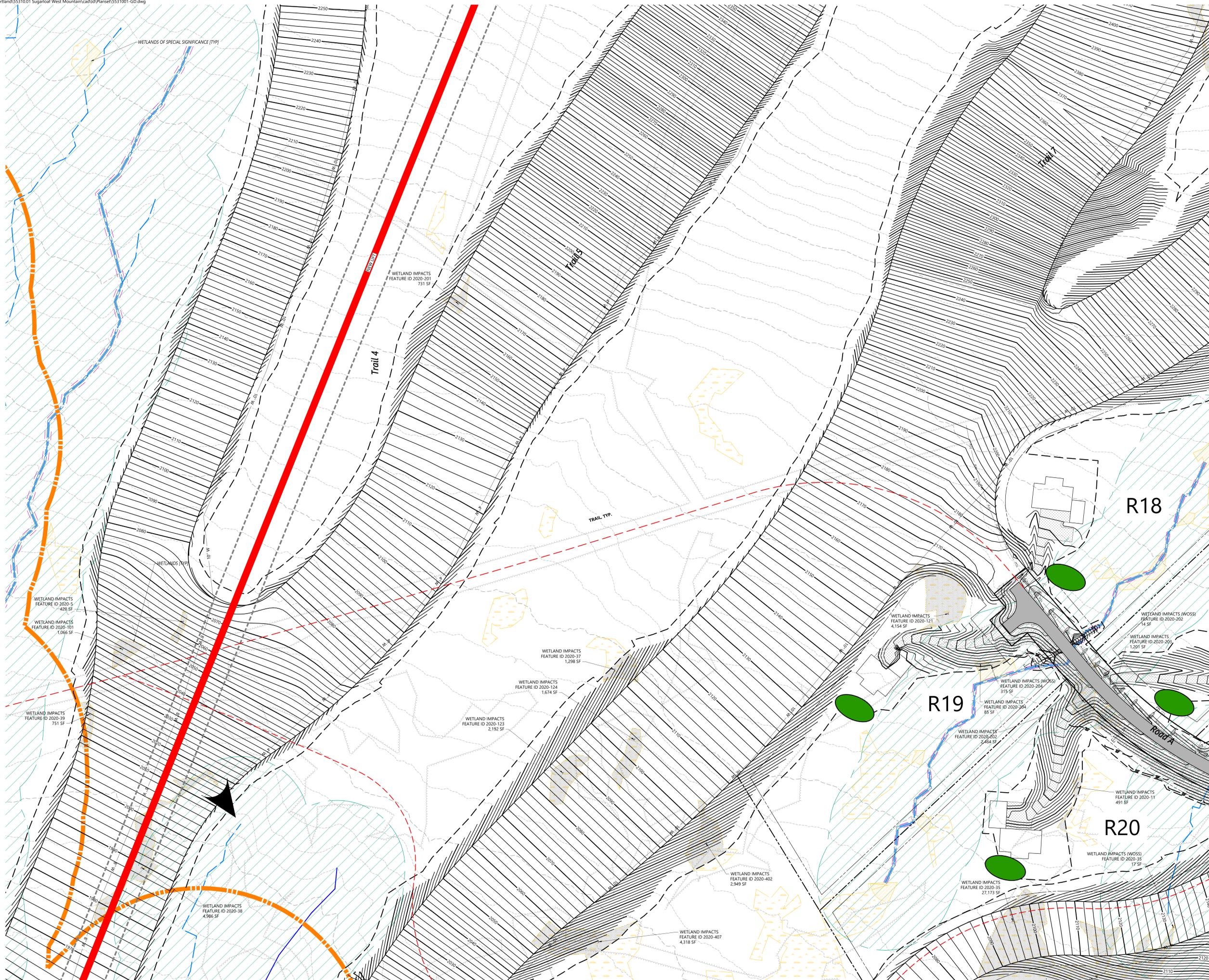
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Ski Trails Grading



PETER B. SMIAR
No. 16994
LICENSED PROFESSIONAL ENGINEER

CG-1.06

Sheet 11 of 63
Project Number 55310.01

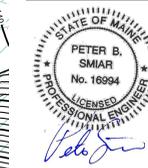


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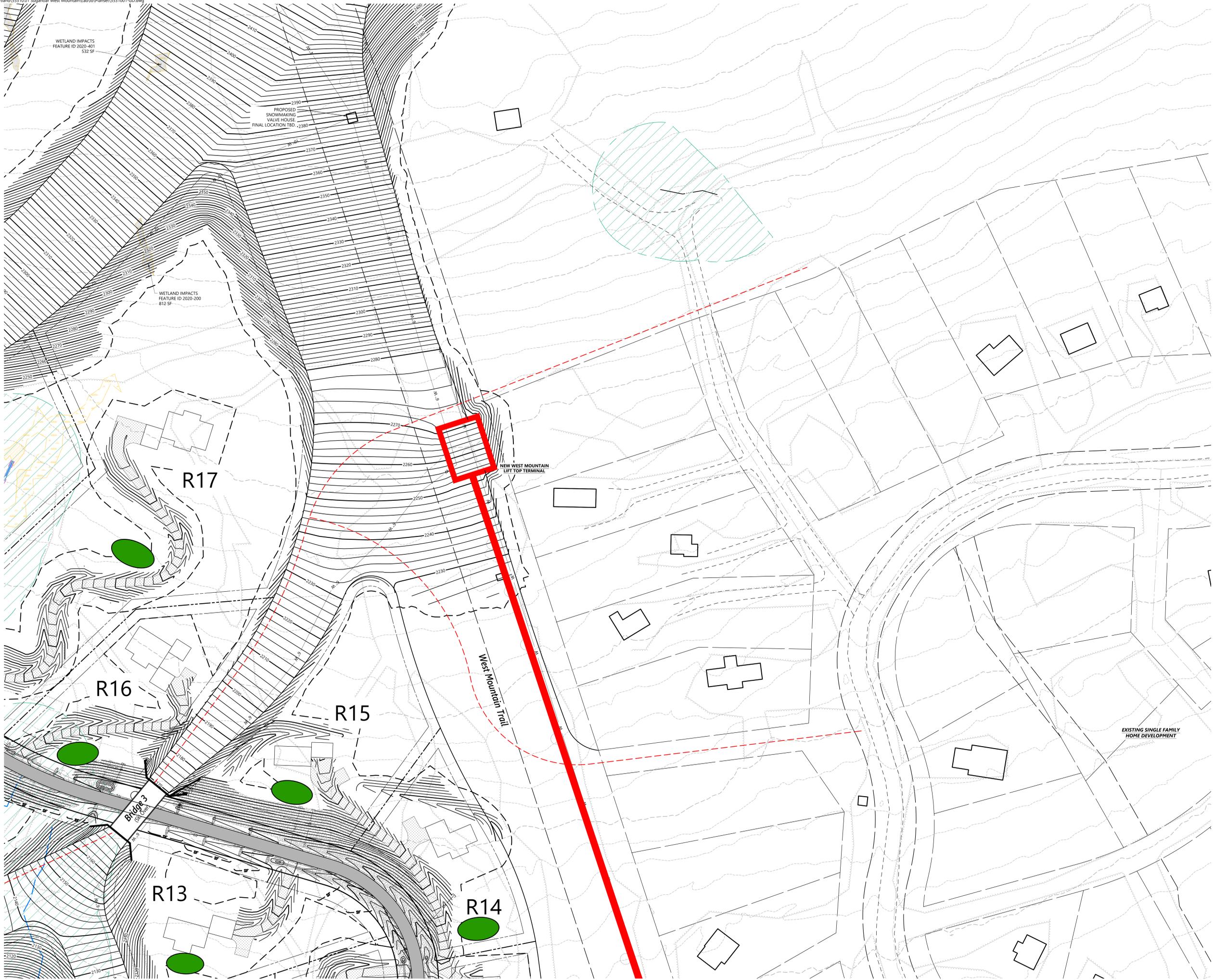
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Drawing Title: **Ski Trails Grading**



CG-1.07

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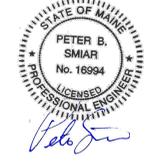


**Sugarloaf Mtn Corp
West Mountain
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5092 Access Road
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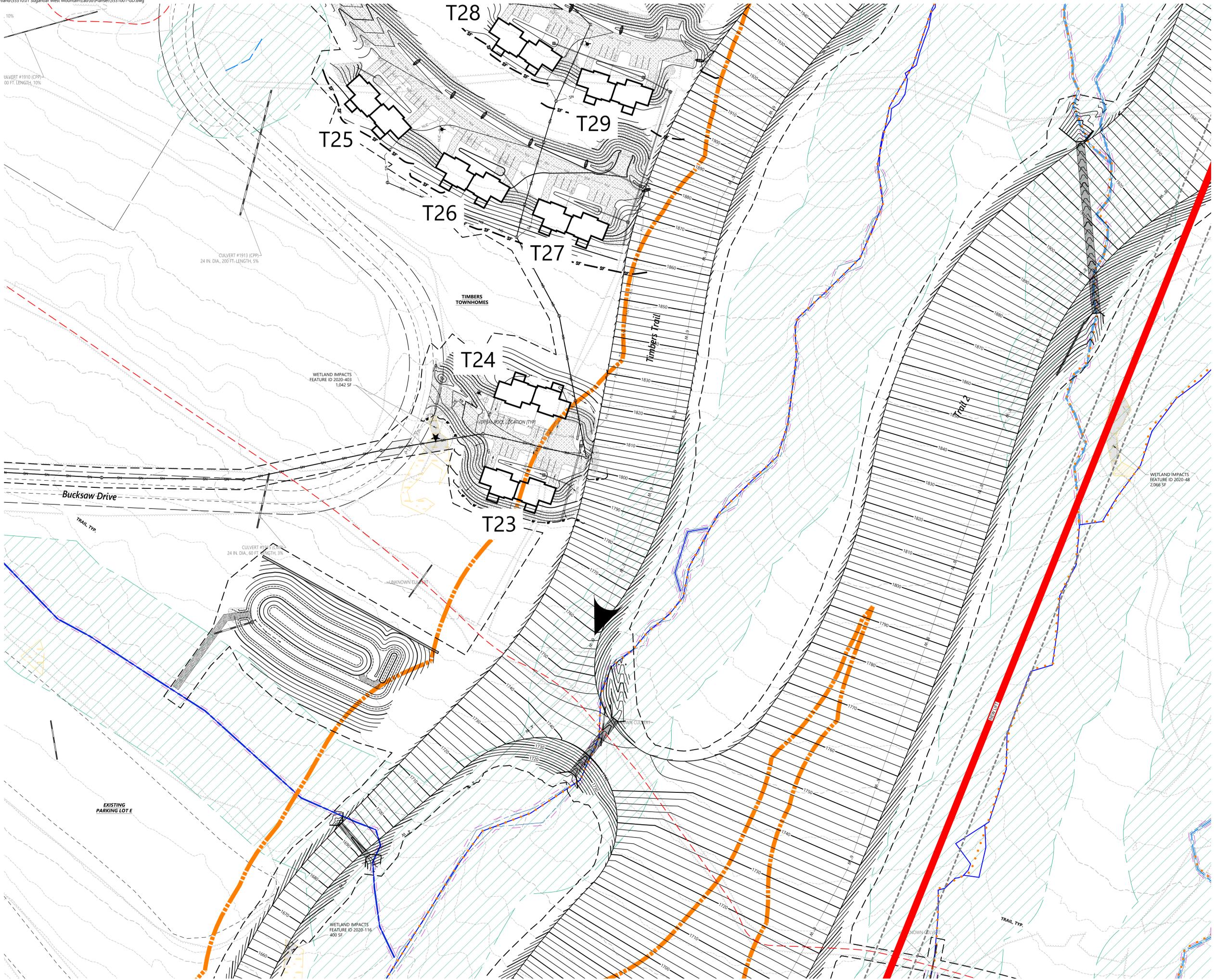
No.	Revision	Date	App'd.

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 Date: Date: Date: Date:
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 Ski Trails Grading



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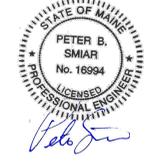


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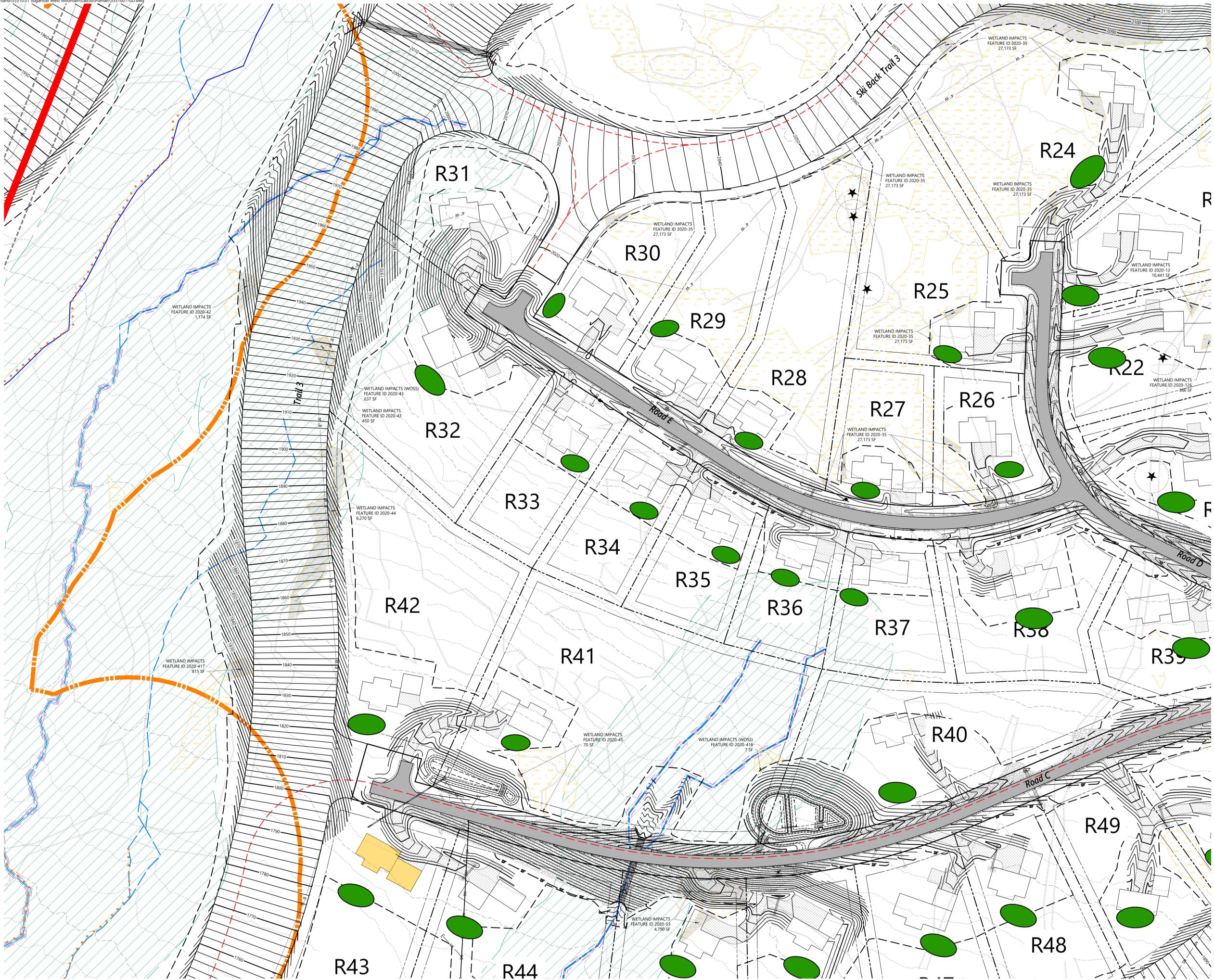
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Drawing Title: **Ski Trails Grading**



CG-1.09

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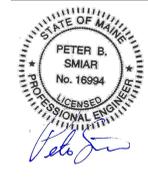
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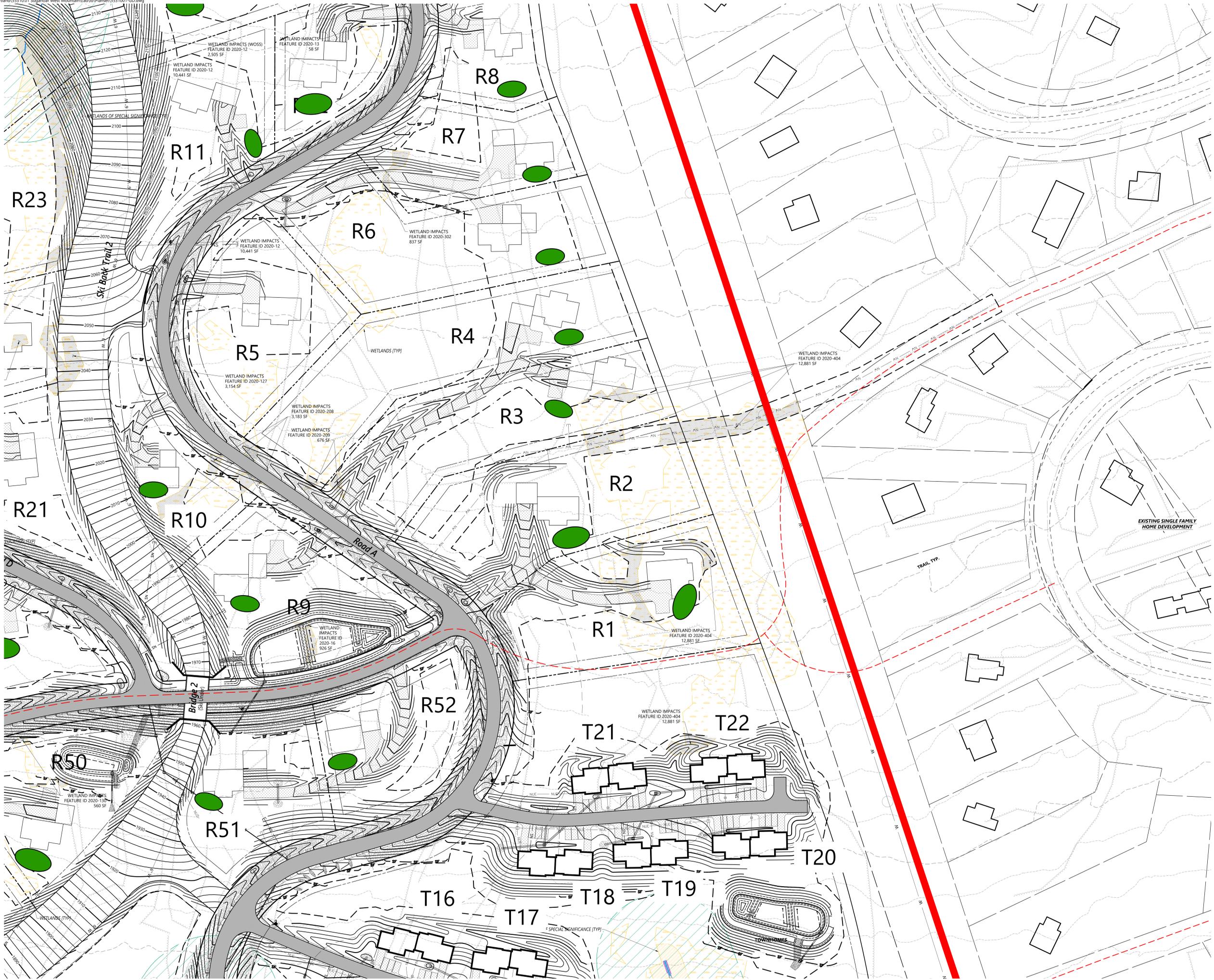
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5092 Access Road
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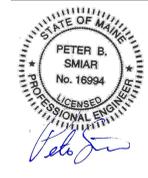
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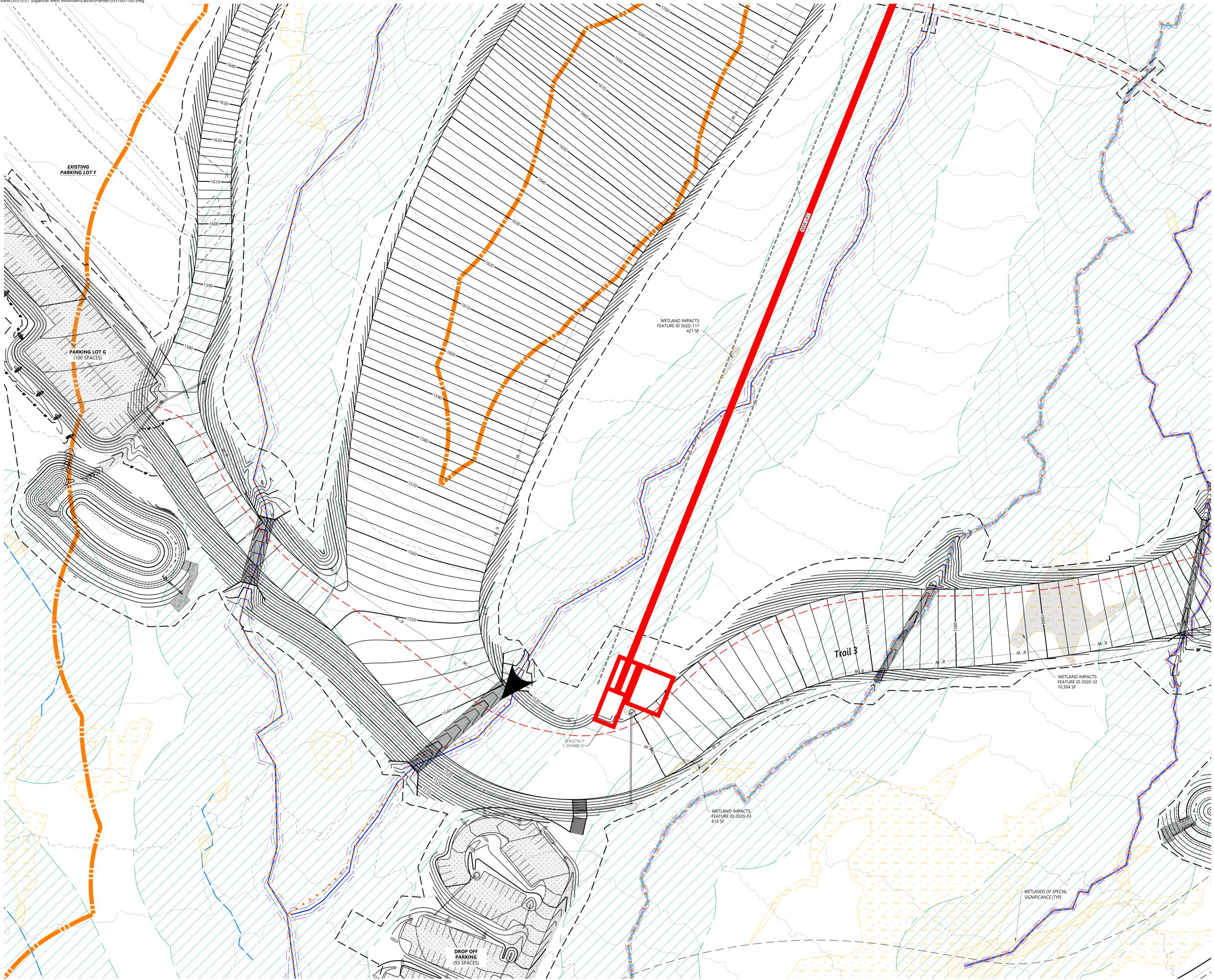
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PETER B. SMIAR
No. 16994
LICENSED PROFESSIONAL ENGINEER

CG-1.11

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Project Number 55310.01

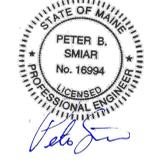


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No.	Revision	Date	App'd.

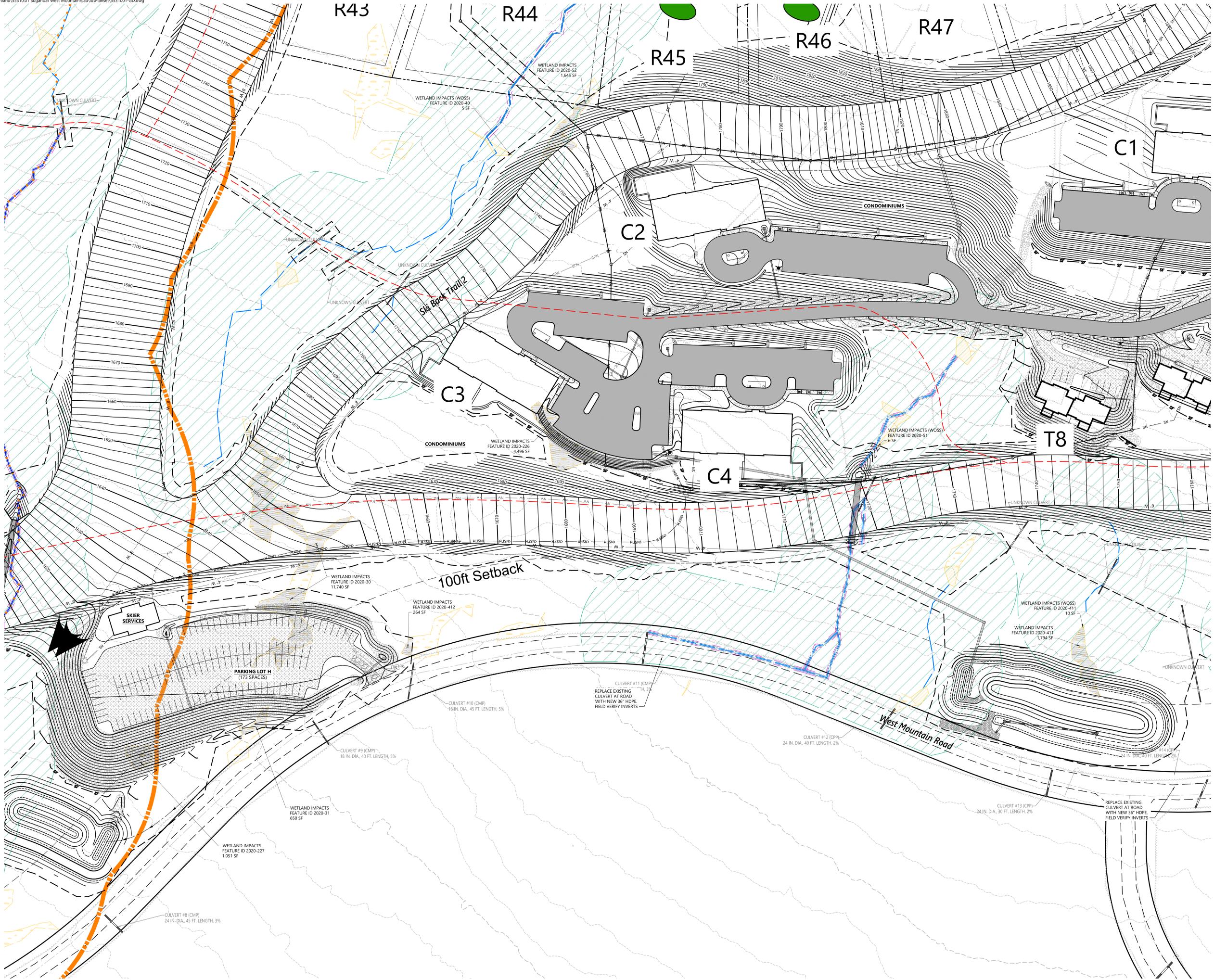
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PETER B. SMIAR
No. 16894
LICENSED PROFESSIONAL ENGINEER

Drawing Number: **CG-1.12**
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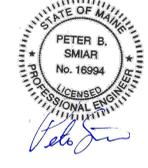


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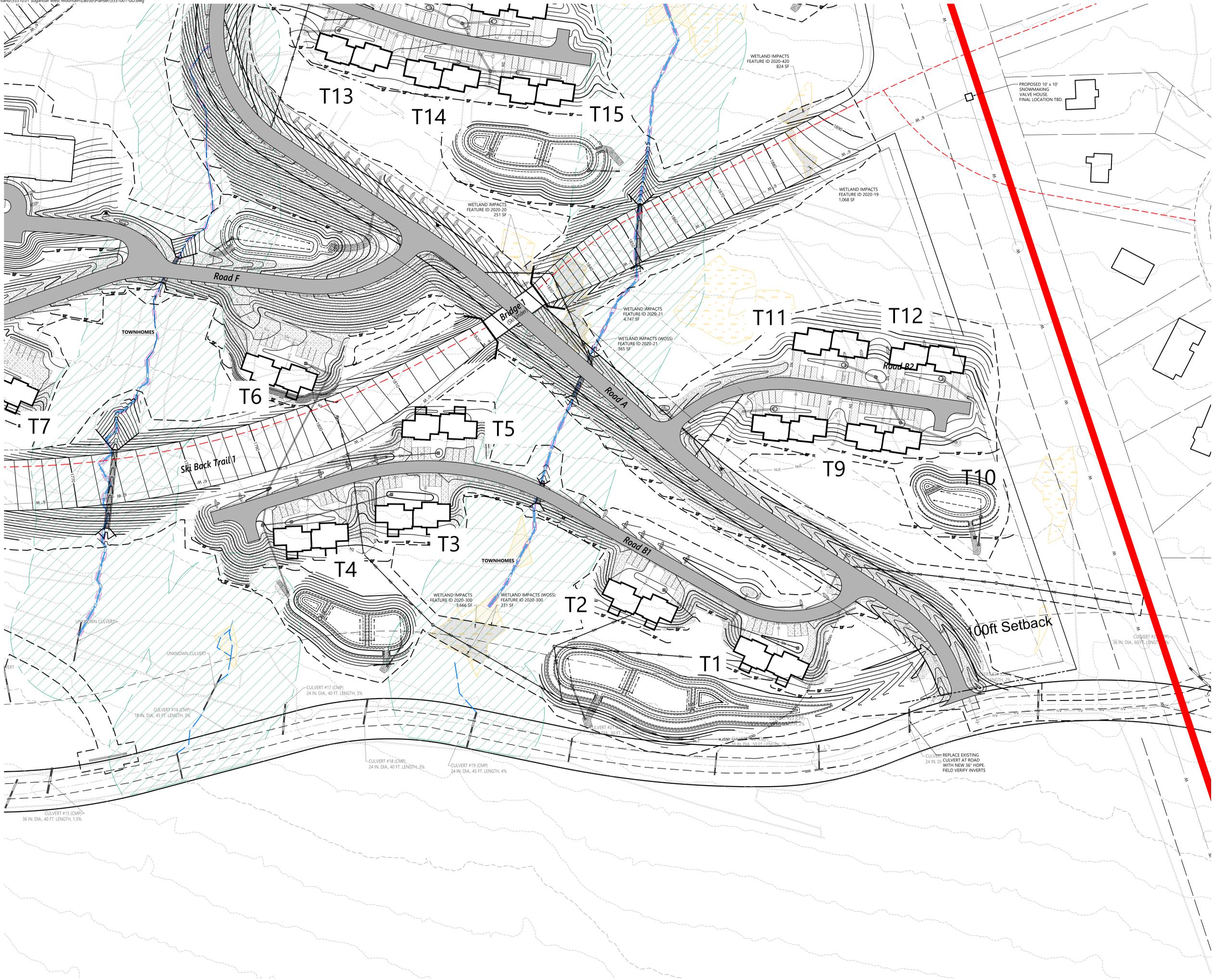
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PETER B. SMIAR
No. 16894
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Drawing Number
CG-1.13
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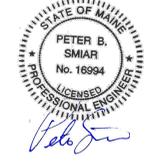


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PETER B. SMIAR
No. 16894
LICENSED PROFESSIONAL ENGINEER

CG-1.14

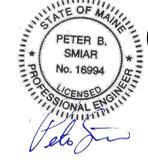
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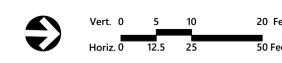
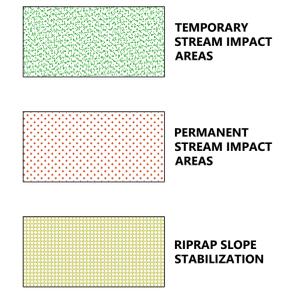
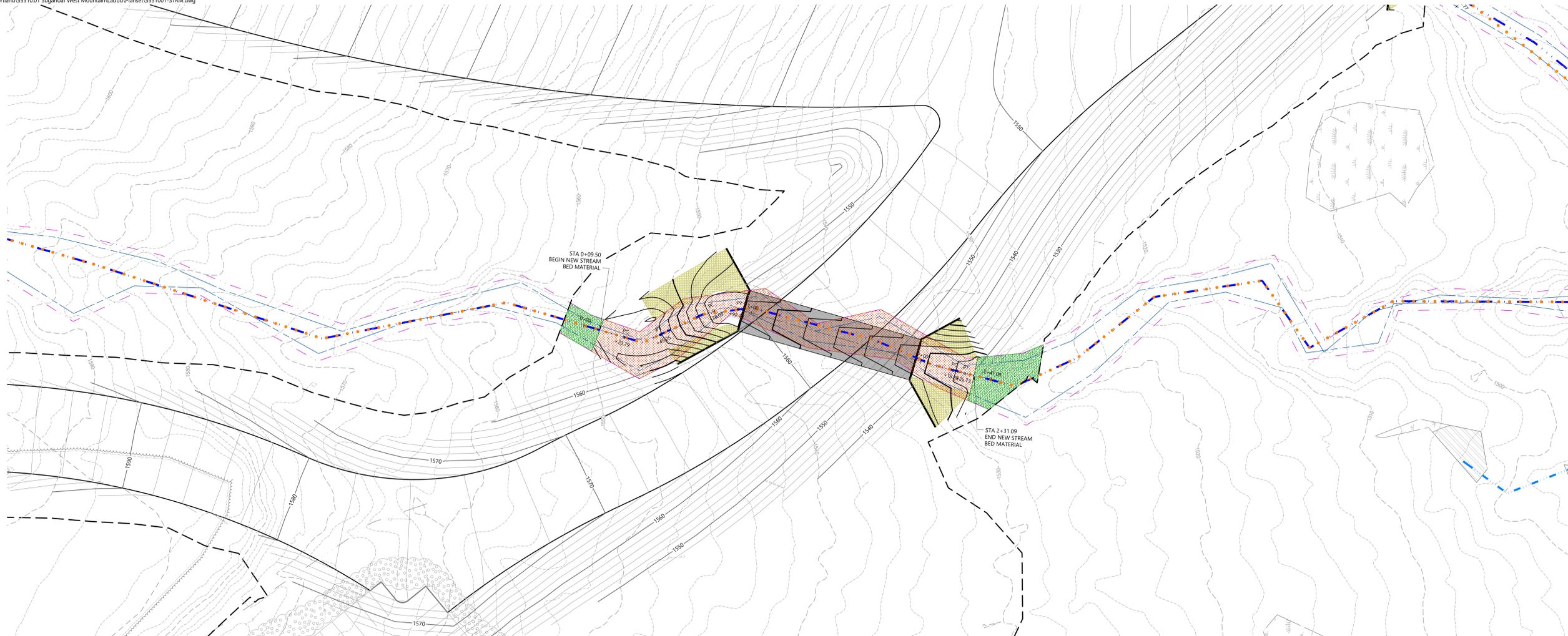
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West Mountain
Expansion**
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Designed by:	RWN	Checked by:	PS
Drawn for:		Date:	April 29, 2022
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Not For Construction
Drawing Title: **Overall Stream Crossing Plan**



CG-2.00
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Project Number 55310.01

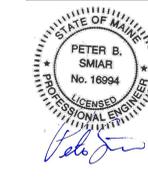


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Carrabassett Valley, ME 04947

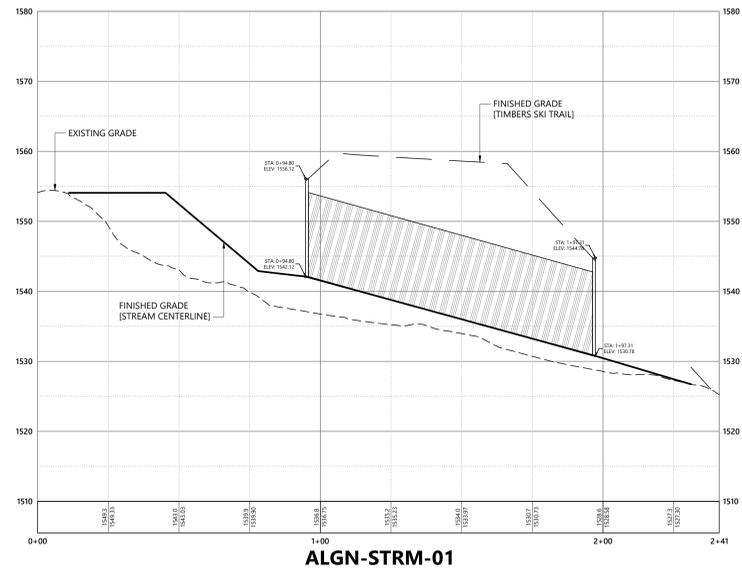
No.	Revision	Date	App'd.

Designed by: **RWN** Checked by: **PS**
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Not For Construction
Drawing Title: **Stream Crossing Plan and Profile**



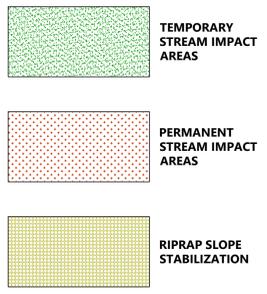
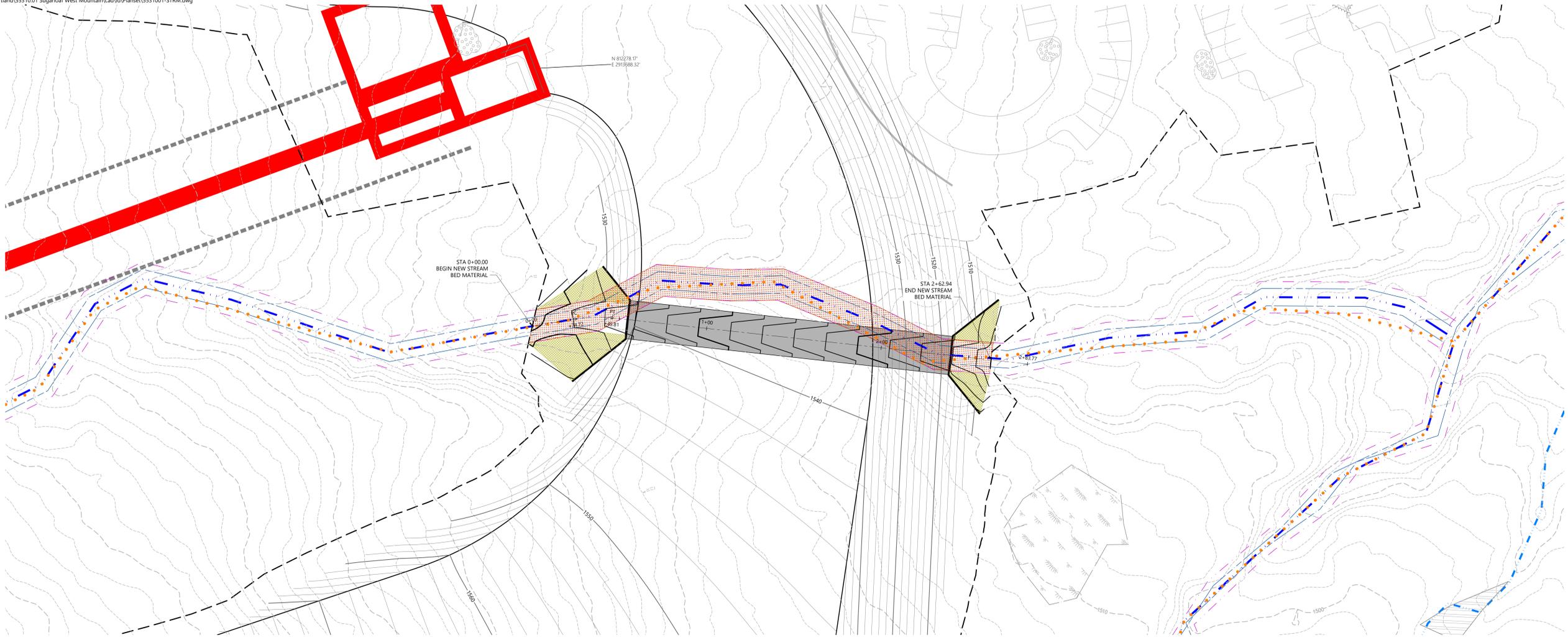
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STREAM CROSSING 1

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	102.5± 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

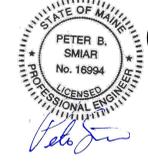


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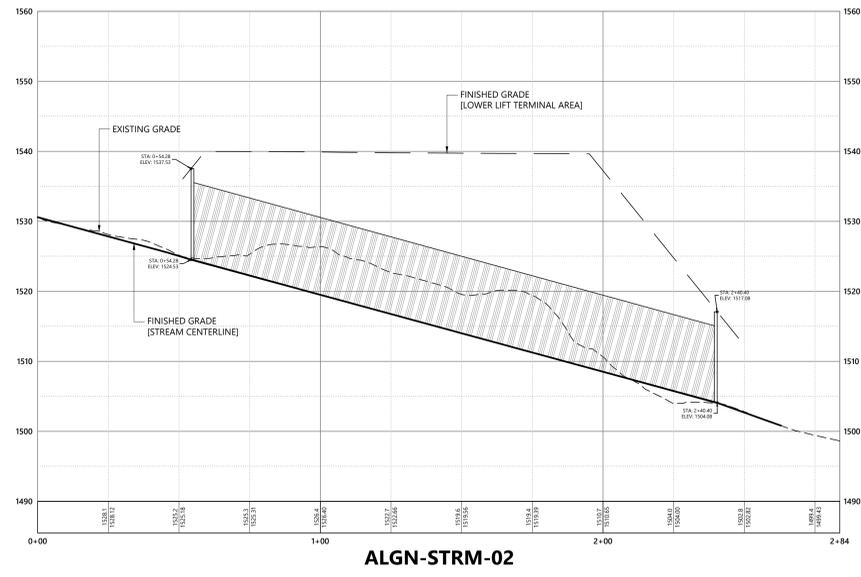
No.	Revision	Date	App'd.

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

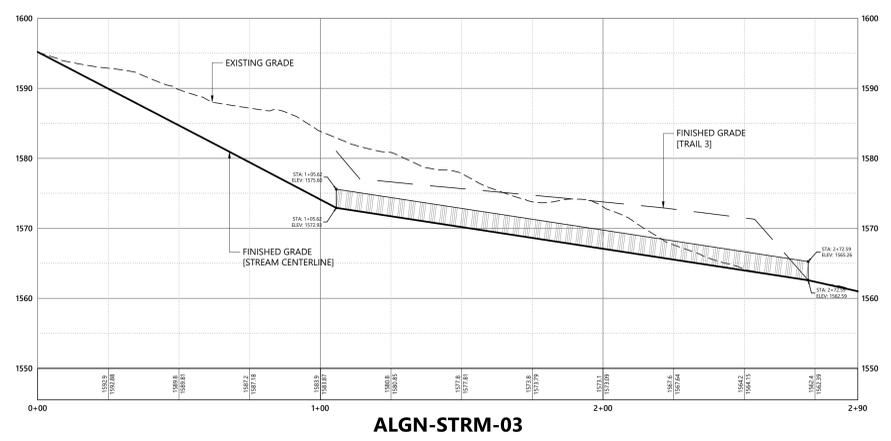
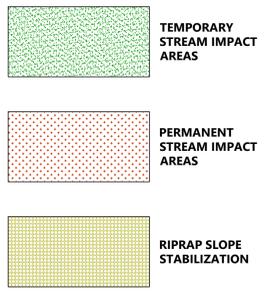
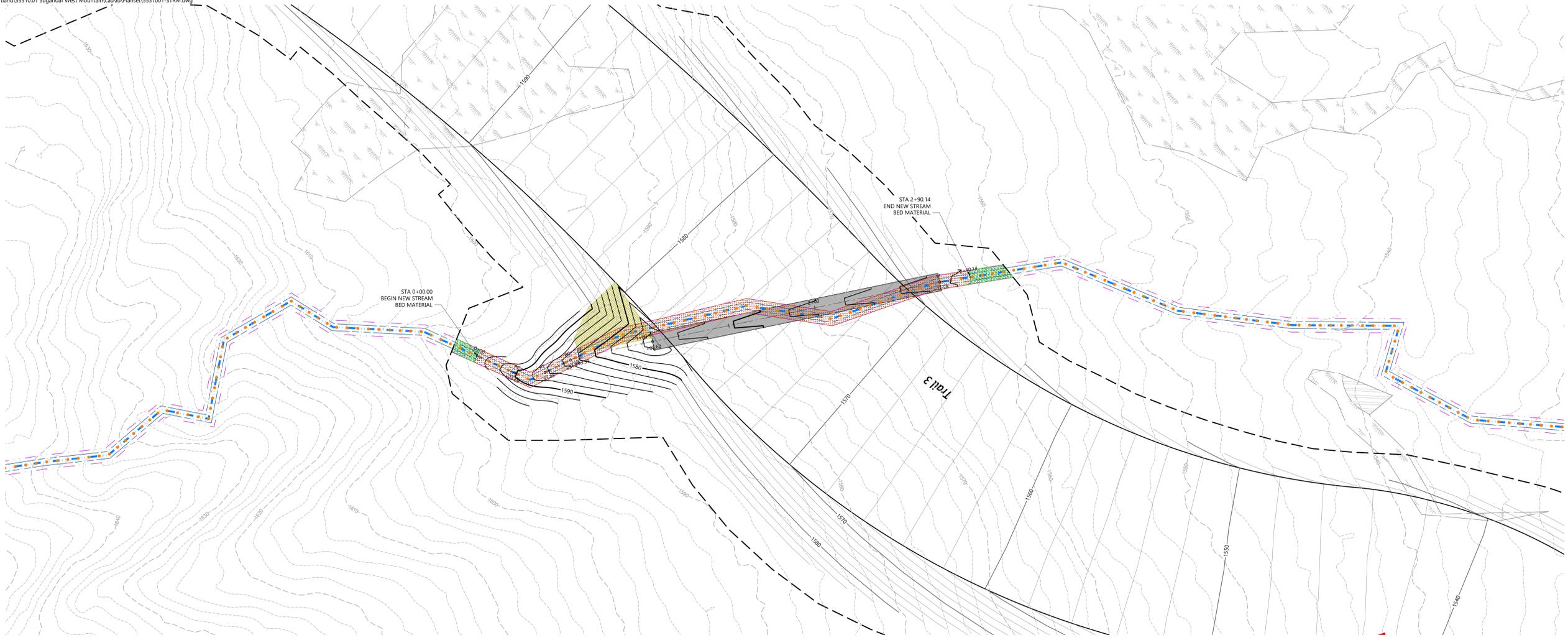


CG-2.02
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STREAM CROSSING 2
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	186.0± Feet
PIPE DIMENSIONS	22' SPAN X 11' RISE
UPSTREAM INVERT	1524.53± Feet
DOWNSTREAM INVERT	1504.08± Feet
SLOPE	0.11 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



STREAM CROSSING 3

BOX

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	167.0± Feet
PIPE DIMENSIONS	10.17' SPAN X 2.67' RISE
UPSTREAM INVERT	1572.93± Feet
DOWNSTREAM INVERT	1562.59± Feet
SLOPE	0.06 FT/FT
WINGWALLS	N/A
UPSTREAM ENDWALL DIMENSION	N/A
DOWNSTREAM ENDWALL DIMENSION	N/A

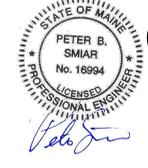


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West Mountain
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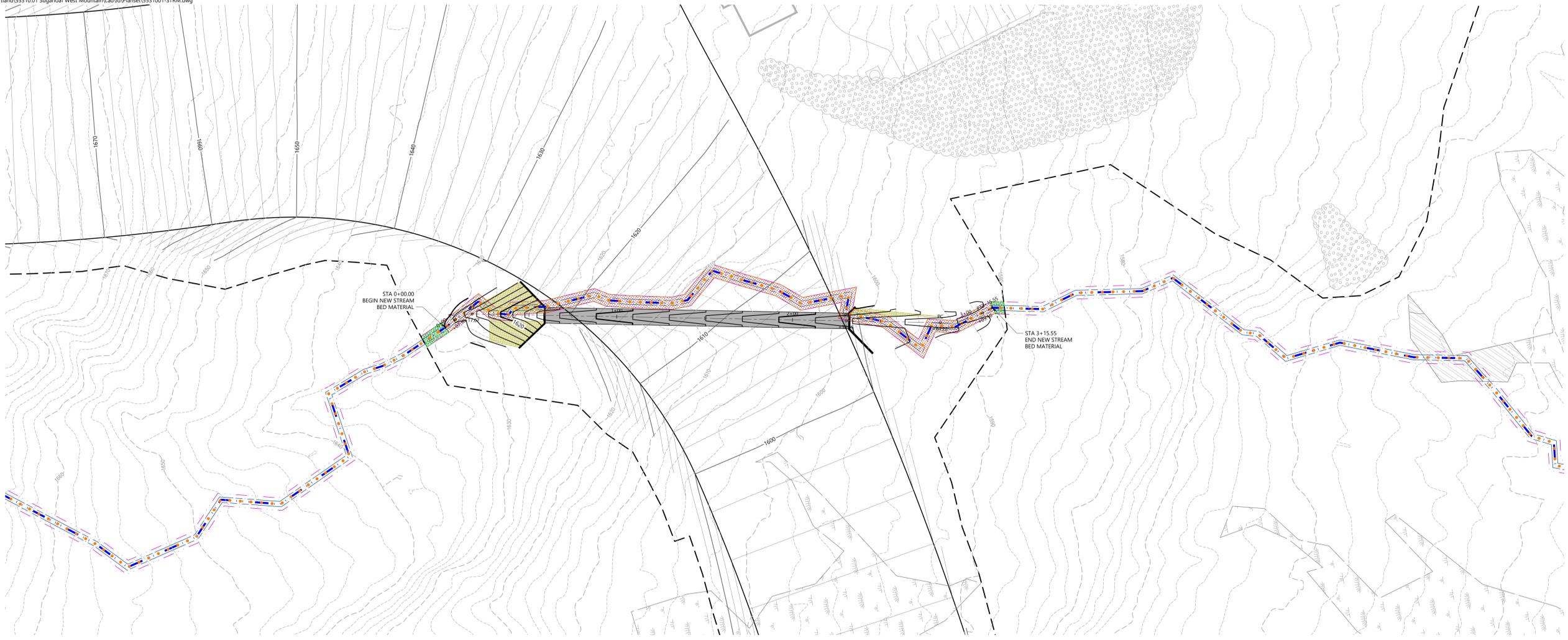
No.	Revision	Date	App'd.

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Drawing Title: **Stream Crossing Plan and Profile**

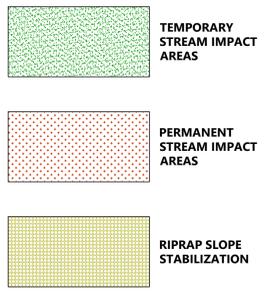


CG-2.03
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STA 0+00.00
BEGIN NEW STREAM
BED MATERIAL

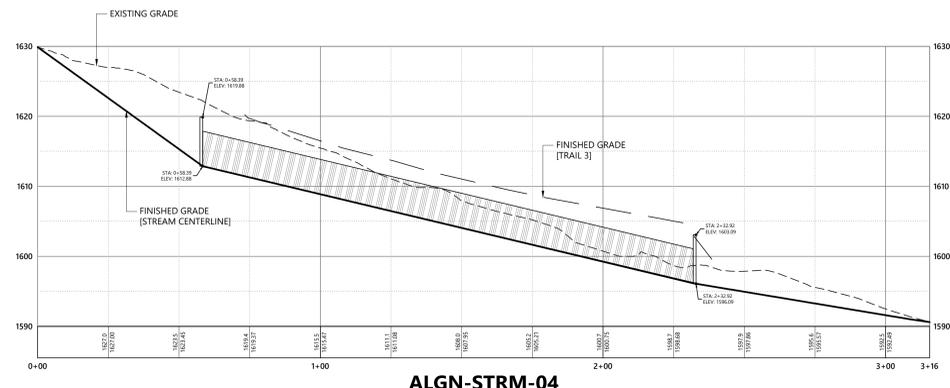
STA 3+15.55
END NEW STREAM
BED MATERIAL



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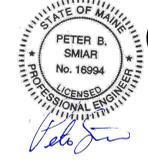
Designed by: **RWN** Checked by: **PS**
Issued for: **Review** Date: **April 29, 2022**



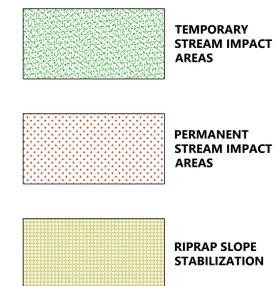
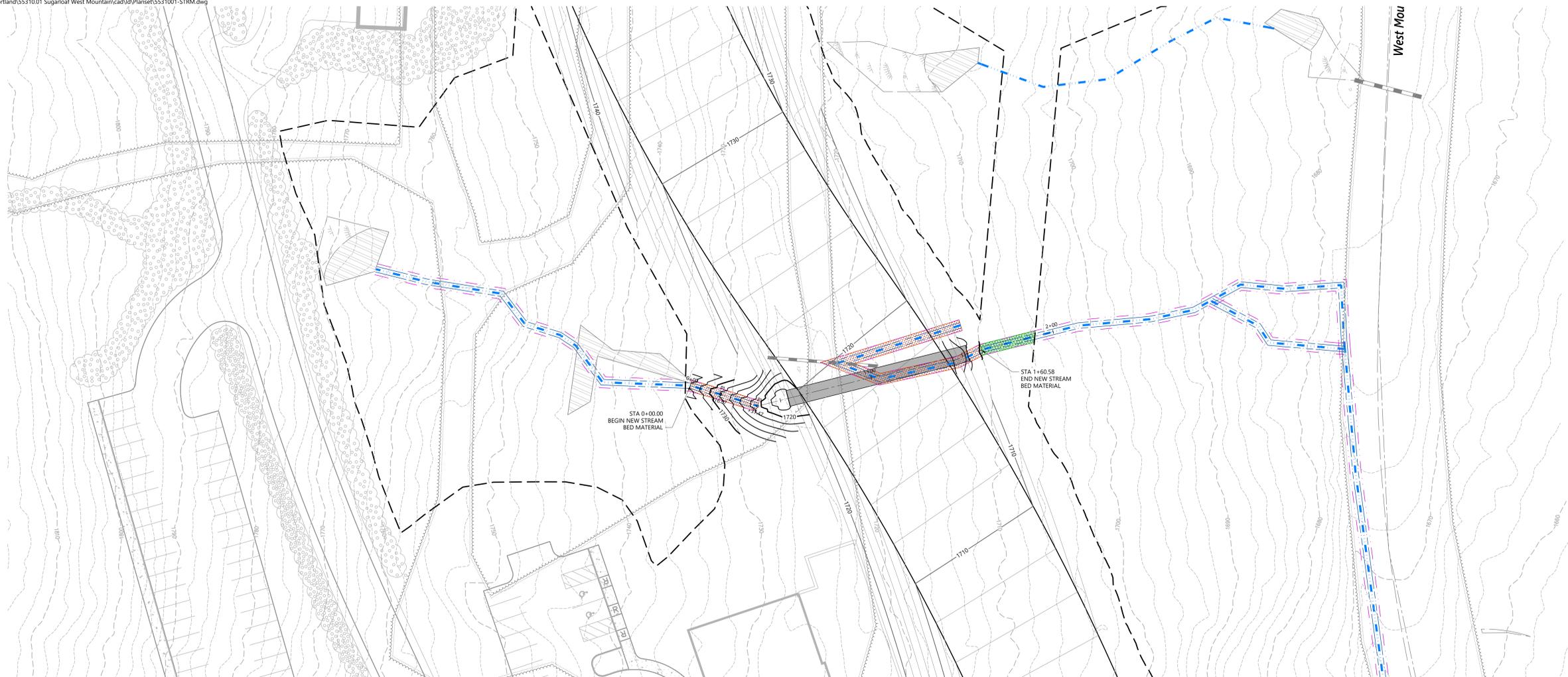
**STREAM CROSSING 4
SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	174.5± Feet
PIPE DIMENSIONS	9' SPAN X 5' RISE
UPSTREAM INVERT	1612.88± Feet
DOWNSTREAM INVERT	1596.09± Feet
SLOPE	0.10 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

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



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**Sugarloaf Mtn Corp
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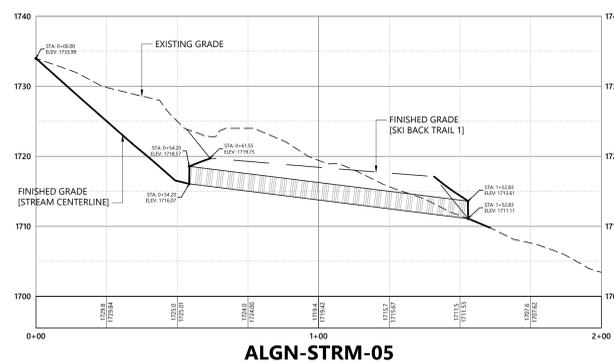
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Designed by: **RWN** Checked by: **PS**

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

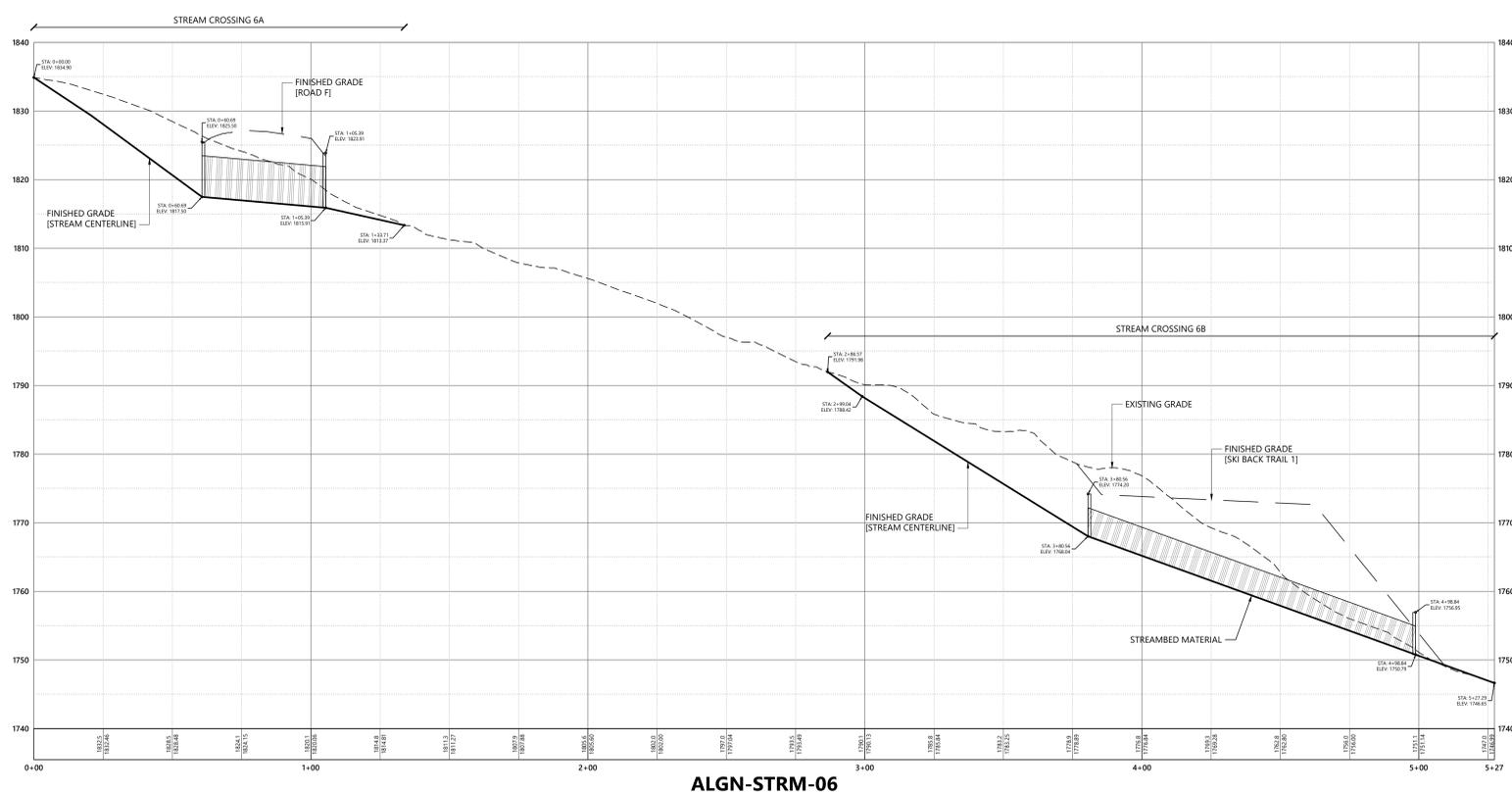
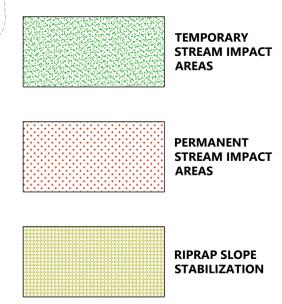
STATE OF MAINE
PETER B. SMIR
No. 16894
LICENSED PROFESSIONAL ENGINEER
CG-2.05
Sheet 25 of 63
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STREAM CROSSING 5

BOX

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	98.5± 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

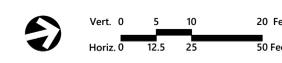
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	12
PIPE LENGTH	44.5± 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

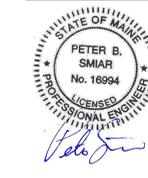
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	118.5± Feet
PIPE DIMENSIONS	8' SPAN X 4.2' RISE
UPSTREAM INVERT	1768.04± Feet
DOWNSTREAM INVERT	1750.79± Feet
SLOPE	0.15 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



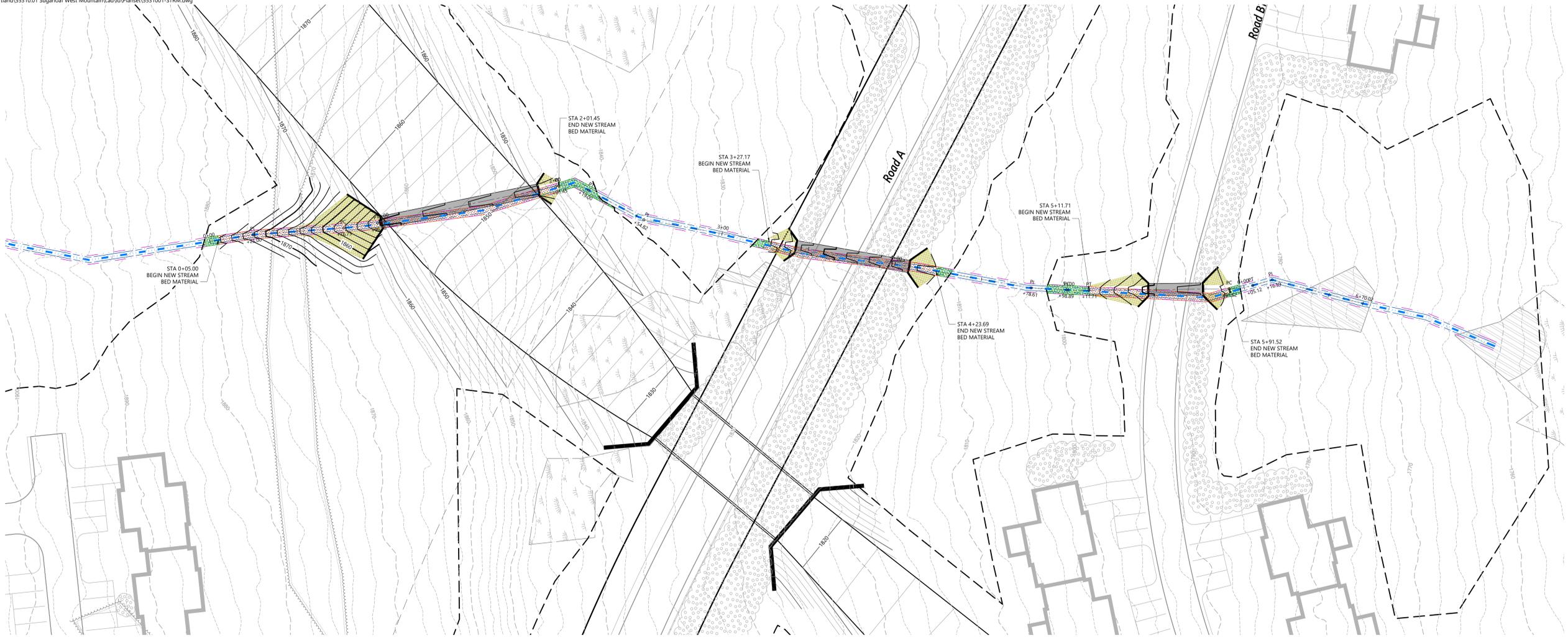
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West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

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Drawing Title
Stream Crossing Plan and Profile



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STREAM CROSSING 7A

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	92.5± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1849.85± Feet
DOWNSTREAM INVERT	1842.92± Feet
SLOPE	0.07 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

STREAM CROSSING 7B

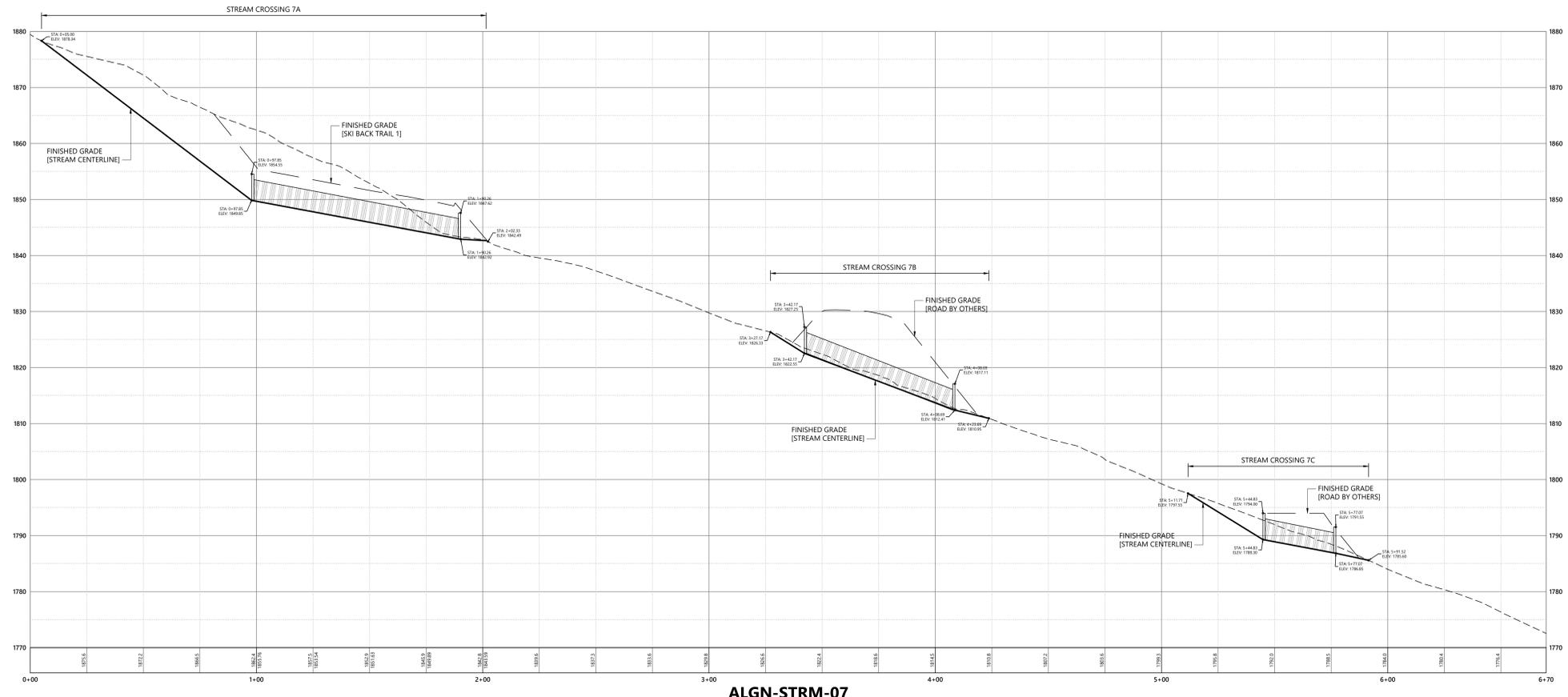
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	66.5± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1823.29± Feet
DOWNSTREAM INVERT	1813.86± Feet
SLOPE	0.15 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

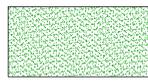
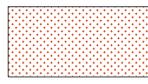
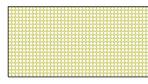
STREAM CROSSING 7C

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	32.0± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1789.30± Feet
DOWNSTREAM INVERT	1786.85± Feet
SLOPE	0.08 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



ALGN-STRM-07

-  TEMPORARY STREAM IMPACT AREAS
-  PERMANENT STREAM IMPACT AREAS
-  RIPRAP SLOPE STABILIZATION

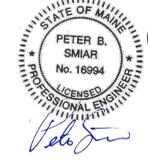


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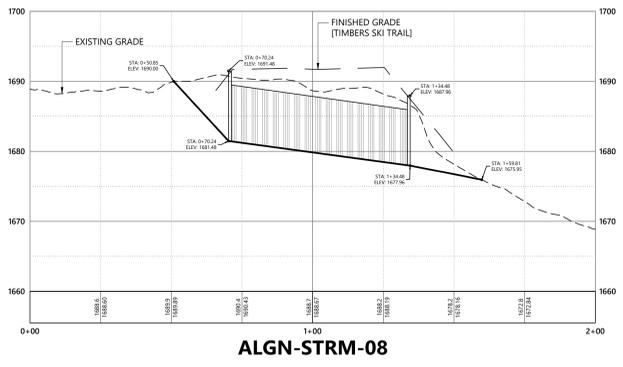
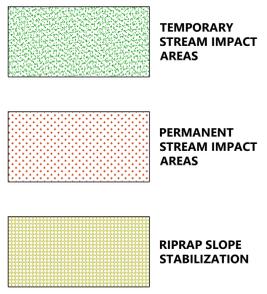
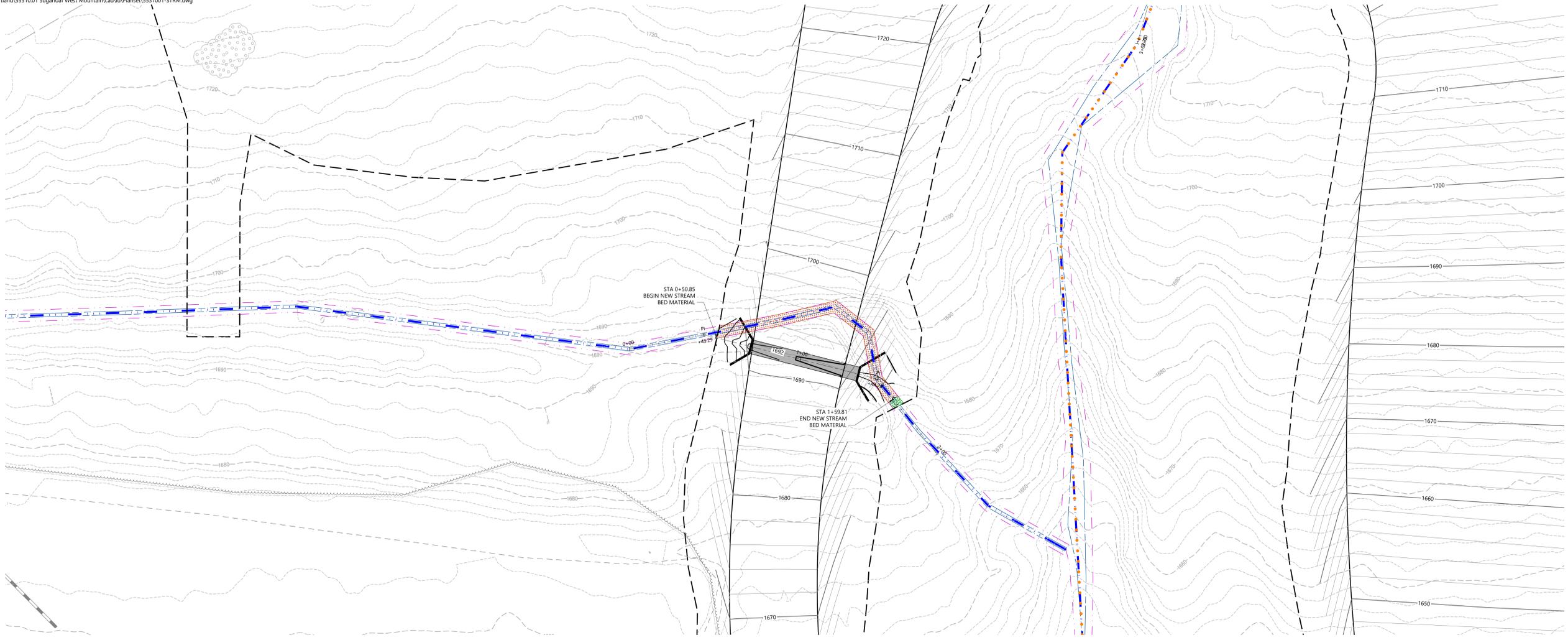
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PETER B. SMIAR
No. 16994
LICENSED PROFESSIONAL ENGINEER

CG-2.07

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STREAM CROSSING 8
SINGLE RADIUS ARCH

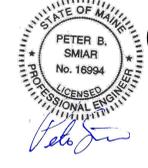
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	64.0± Feet
PIPE DIMENSIONS	8' SPAN X 42" RISE
UPSTREAM INVERT	1681.48± Feet
DOWNSTREAM INVERT	1677.96± Feet
SLOPE	0.06 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

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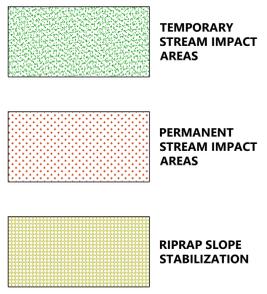
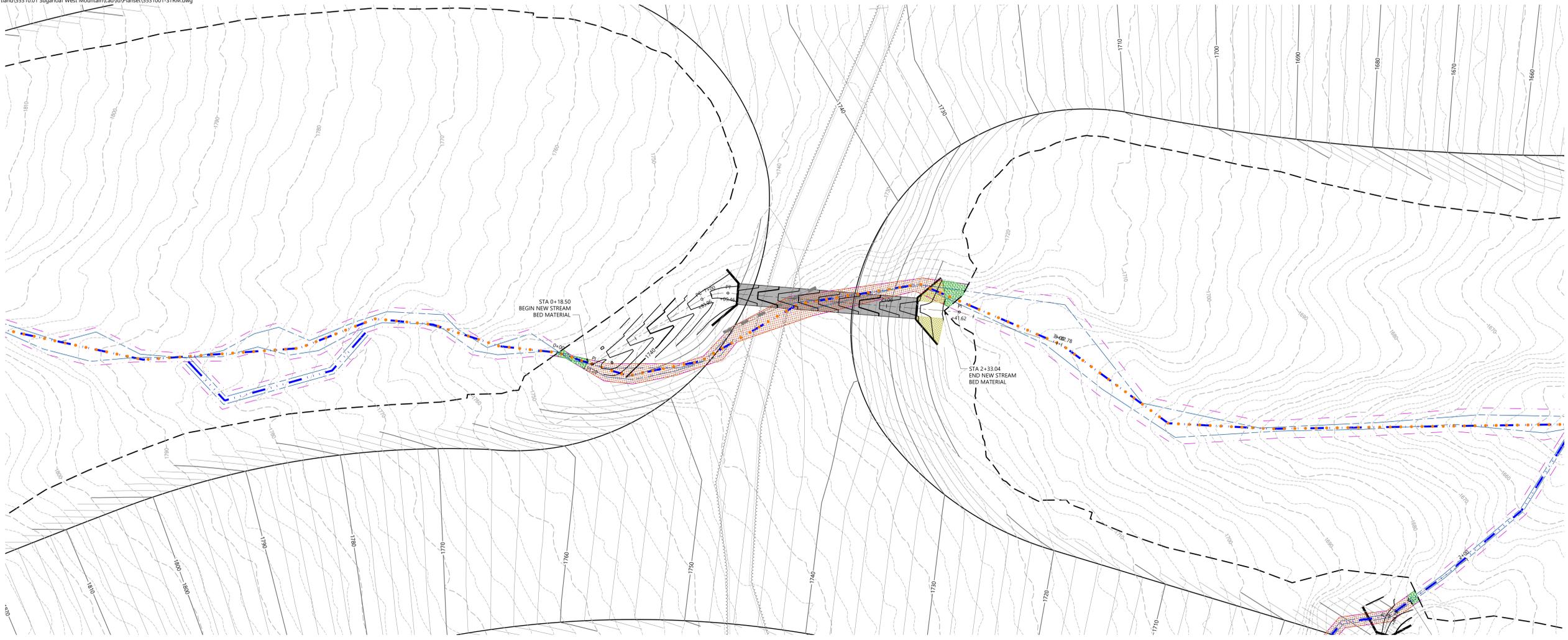
No.	Revision	Date	App'd.

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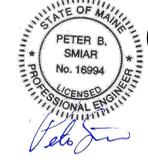


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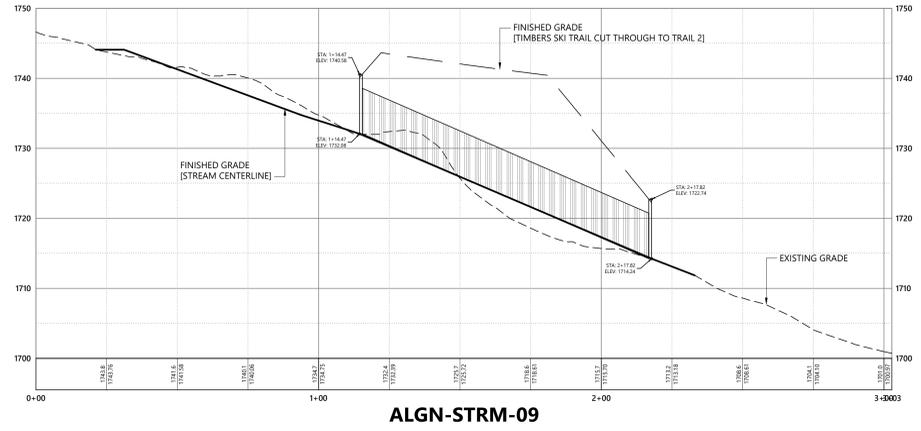
No.	Revision	Date	App'd.

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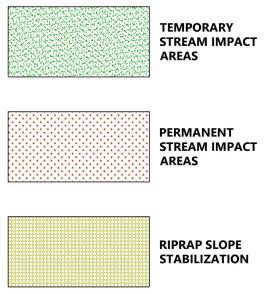
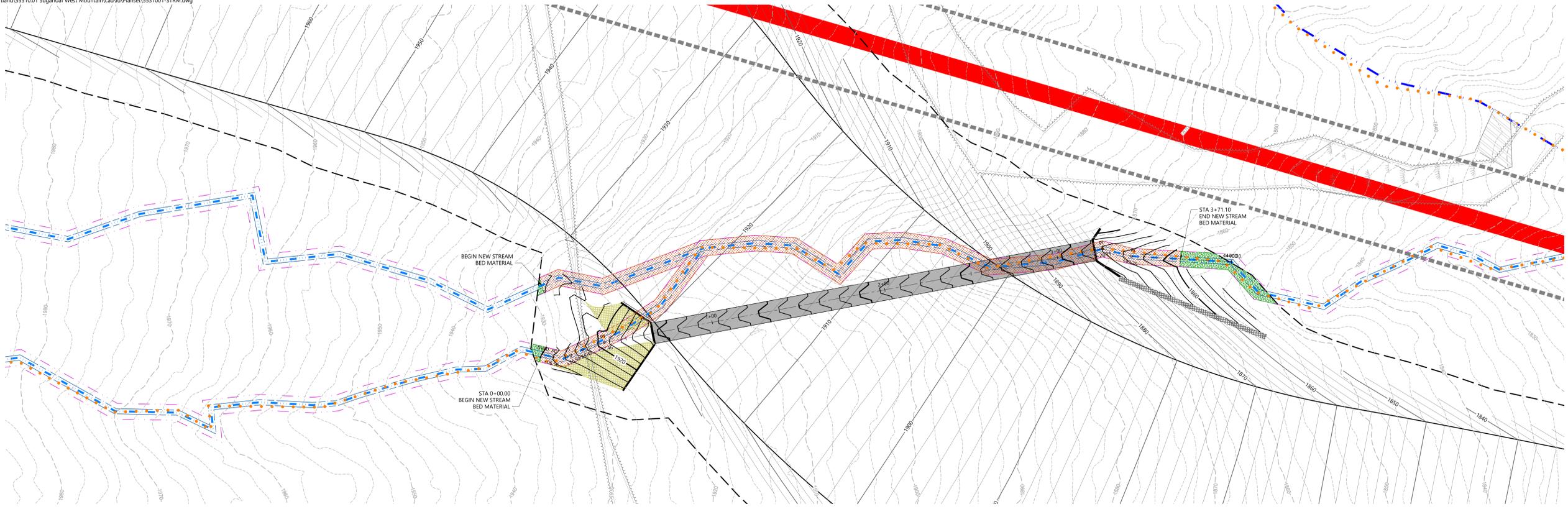


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**STREAM CROSSING 9
SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	103.0± Feet
PIPE DIMENSIONS	12' SPAN X 6.5' RISE
UPSTREAM INVERT	1732.08± Feet
DOWNSTREAM INVERT	1714.24± Feet
SLOPE	0.18 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



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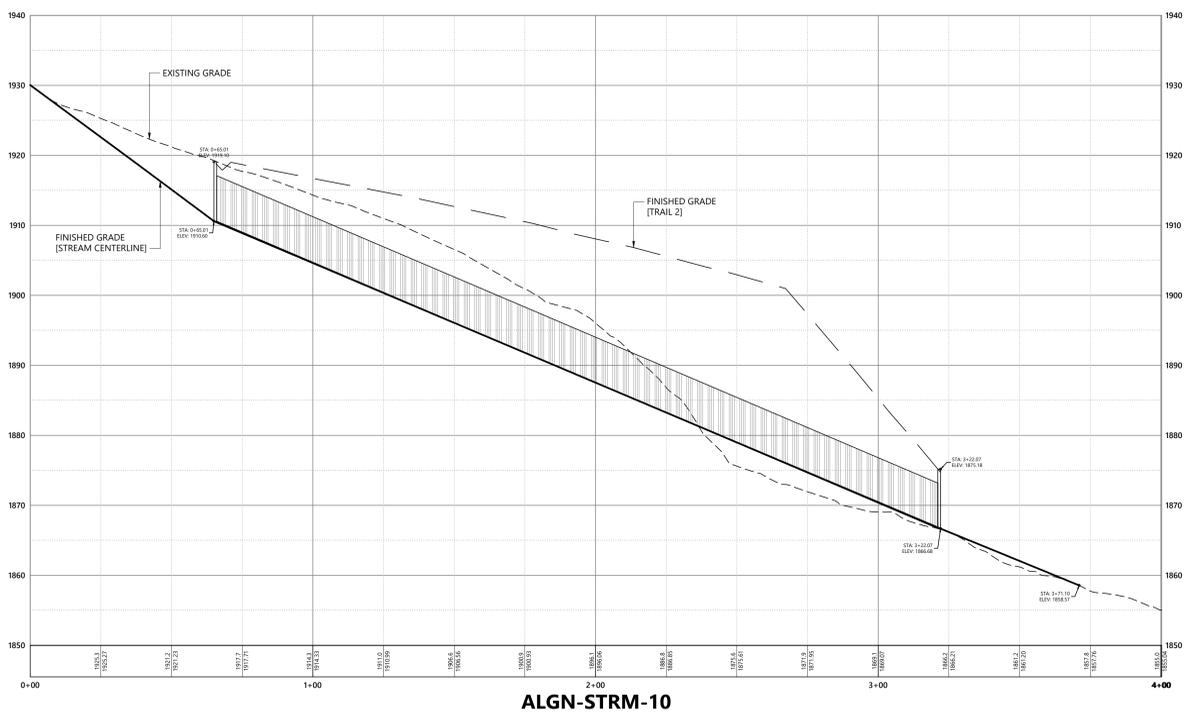
STATE OF MAINE
PETER B. SMIAK
No. 16994
LICENSED PROFESSIONAL ENGINEER

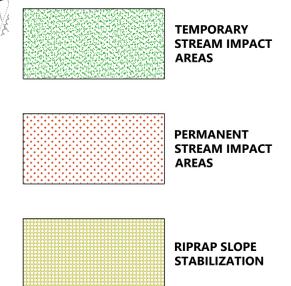
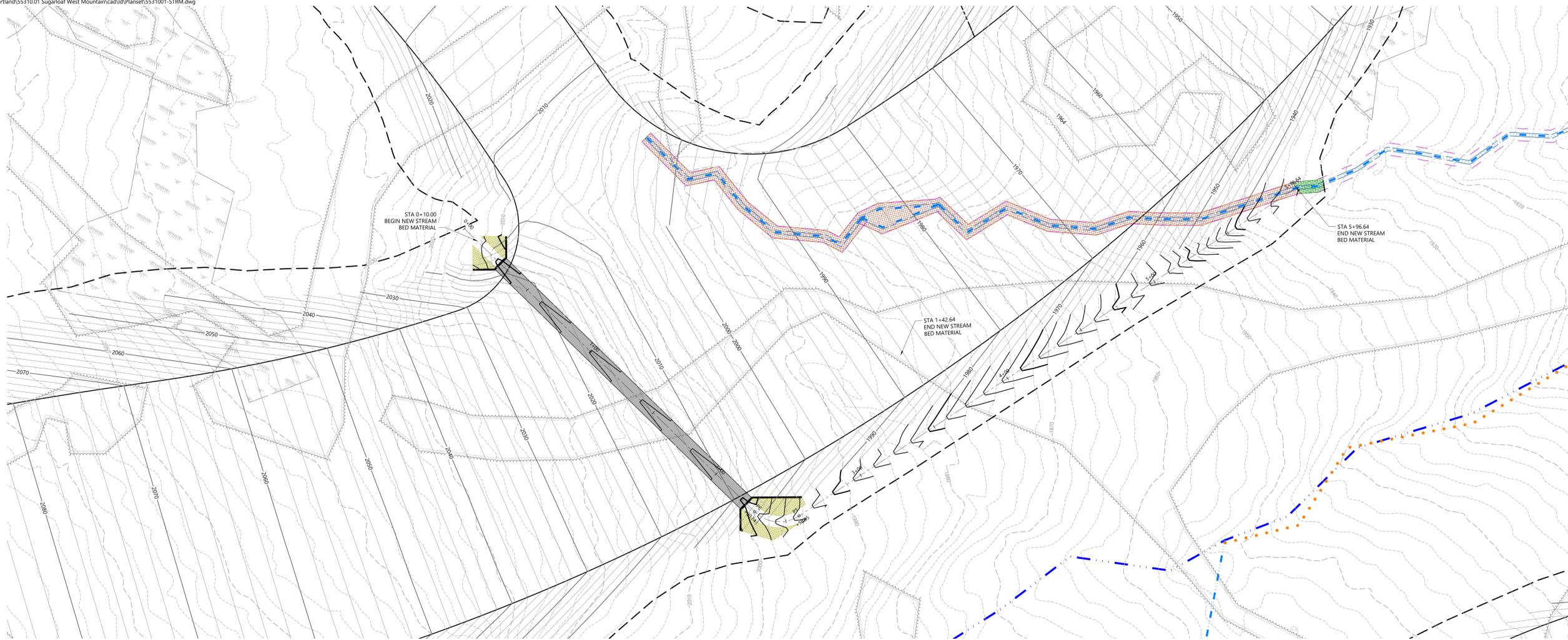
CG-2.10

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STREAM CROSSING 10
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	257.0± 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



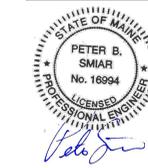


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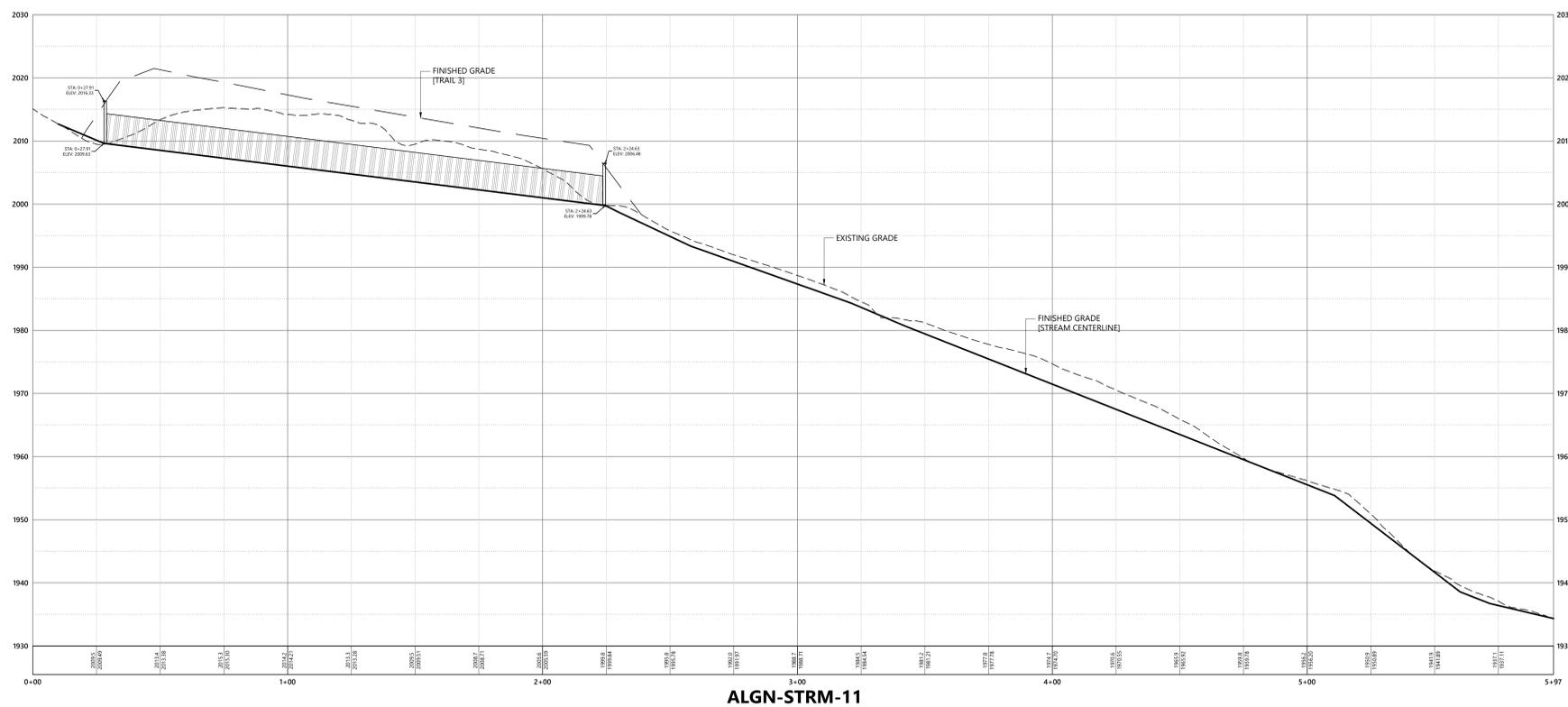
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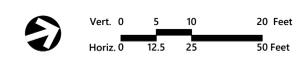
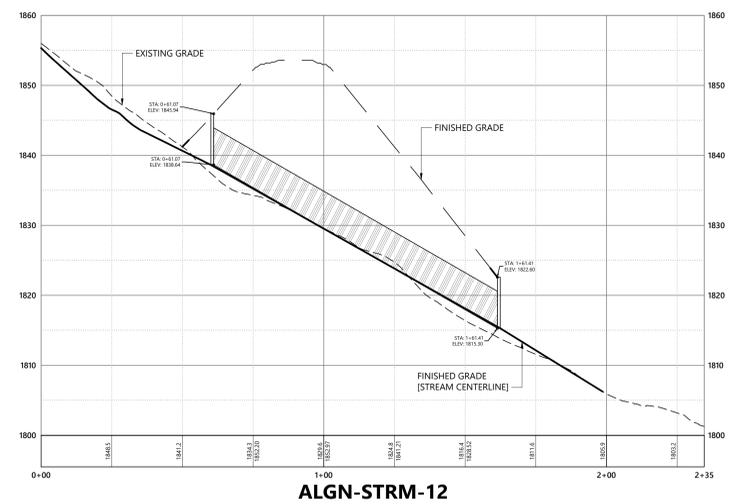
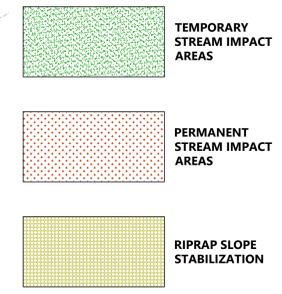
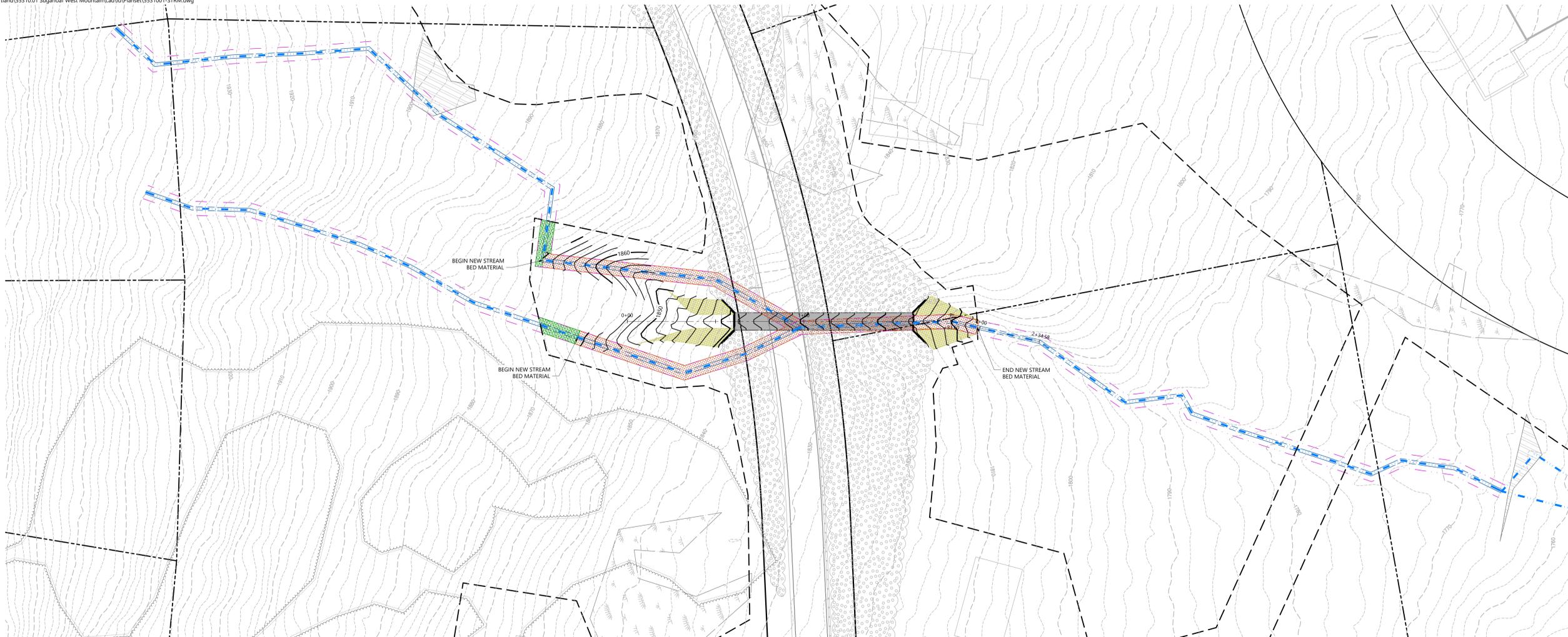
CG-2.11
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**STREAM CROSSING 11
SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	197.0± Feet
PIPE DIMENSIONS	9' SPAN X 4.7' RISE
UPSTREAM INVERT	2009.63± Feet
DOWNSTREAM INVERT	1999.78± Feet
SLOPE	0.05 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



ALGN-STRM-11

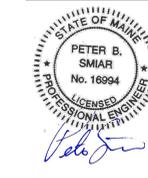


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 No. 16894
 LICENSED PROFESSIONAL ENGINEER

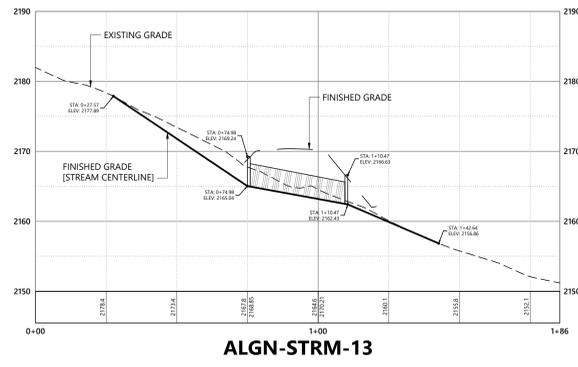
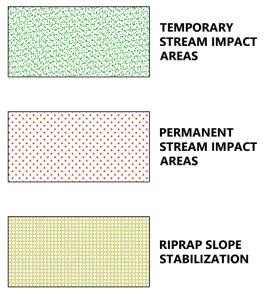
CG-2.12

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STREAM CROSSING 12

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	100.0± 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



ALGN-STRM-13

STREAM CROSSING 13

SINGLE RADIUS ARCH

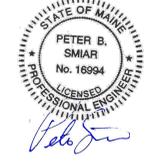
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	35.5± Feet
PIPE DIMENSIONS	6' SPAN X 3.2' RISE
UPSTREAM INVERT	2165.04± Feet
DOWNSTREAM INVERT	2162.43± Feet
SLOPE	0.08 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

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CG-2.13

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Legend

-  SOIL TEST PIT LOCATION
-  50 FT CONTOUR
-  10 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND



0 125 250 500Feet

**Sugarloaf Mtn Corp
West Mountain
Expansion**

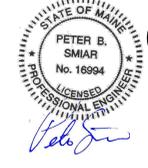
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 Profile

Drawing Number

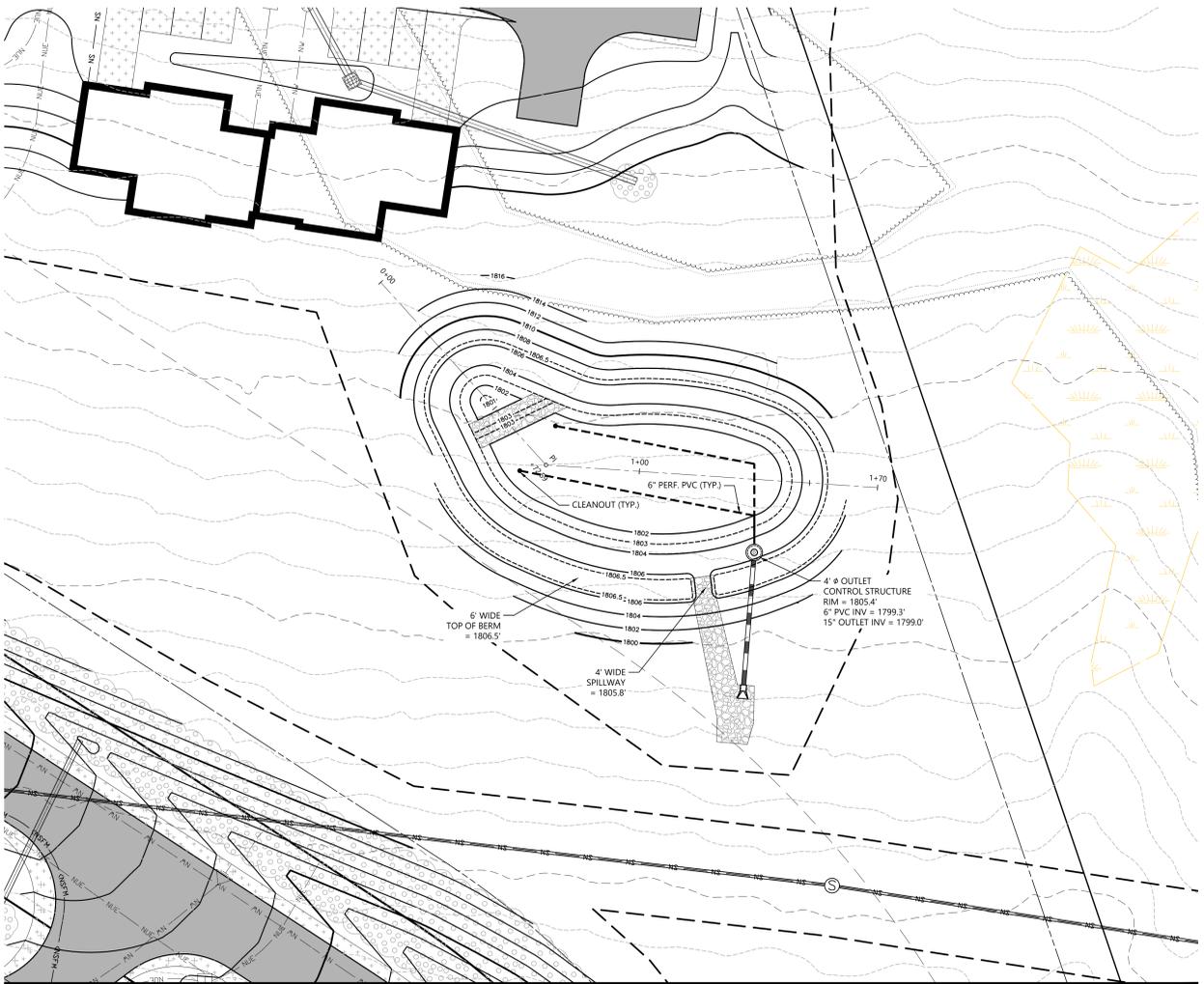
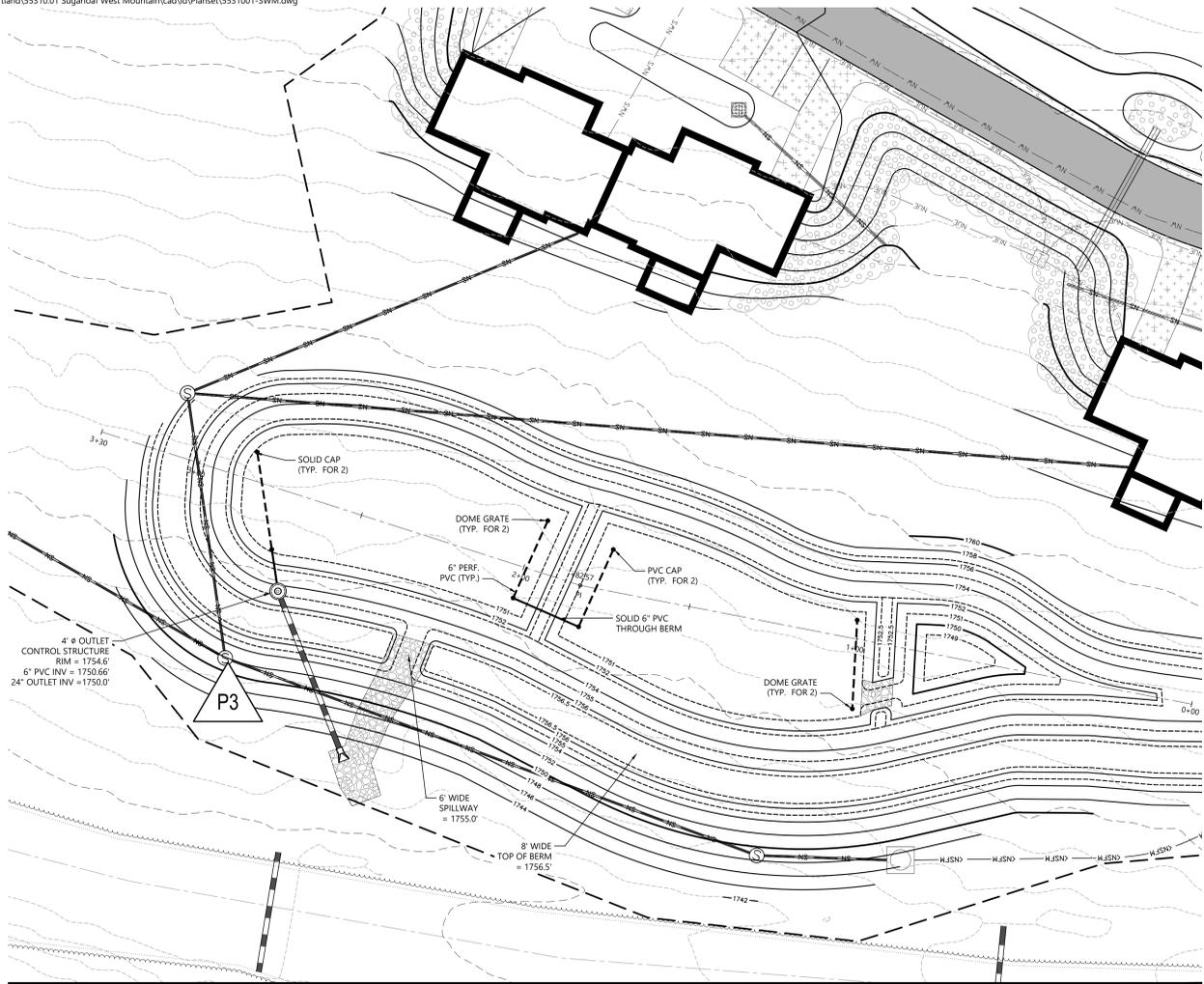


CG-3.00

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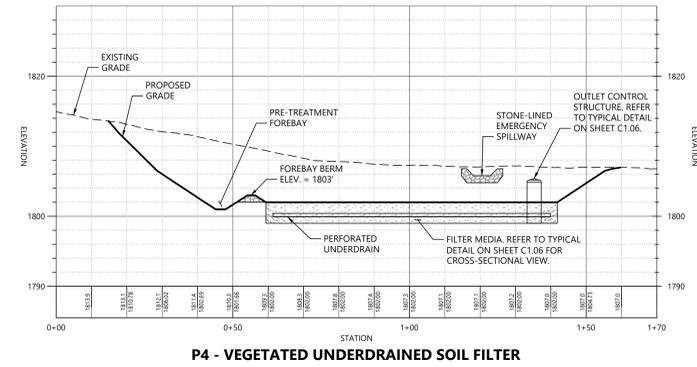
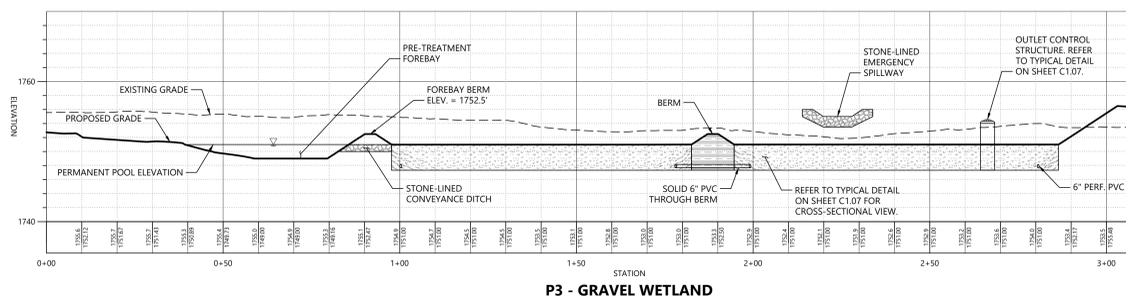
General Notes

1) THE TEST PIT EXPLORATIONS WERE CONDUCTED BY ERIC WHITNEY (CERTIFIED SOIL SCIENTIST, MAIN-LAND DEVELOPMENT CONSULTANTS, INC) ON APRIL 26, 2021. SOIL TEST PIT DATA CAN BE FOUND IN SECTION 11 OF THE PROJECT SITE LAW APPLICATION.



Legend

- SOIL TEST PIT LOCATION
- 10 FT CONTOUR
- 2 FT CONTOUR
- PERENNIAL STREAM
- INTERMITTENT STREAM
- NRCS SOIL LAYER BOUNDARY
- WETLAND

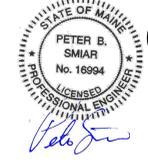


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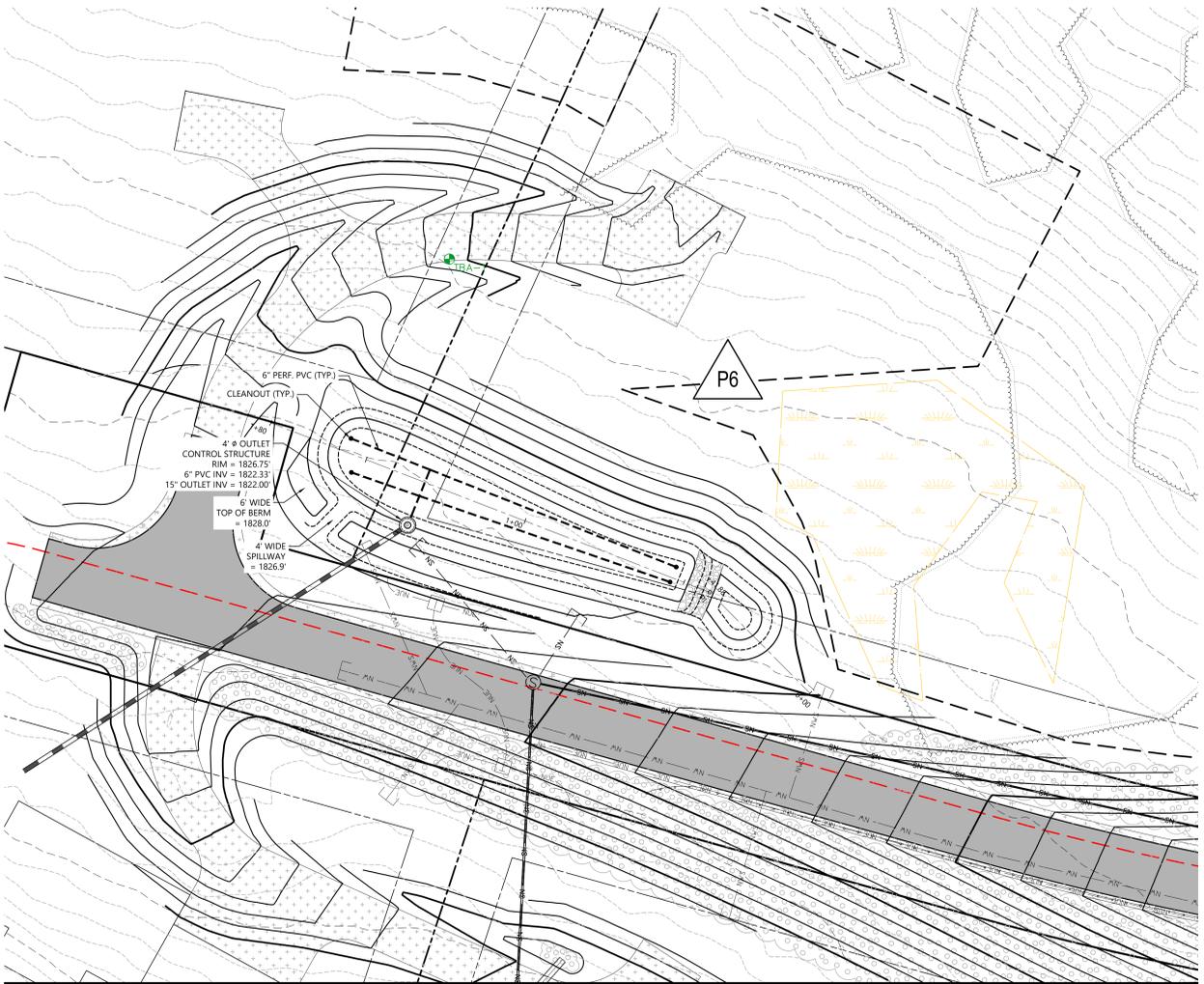
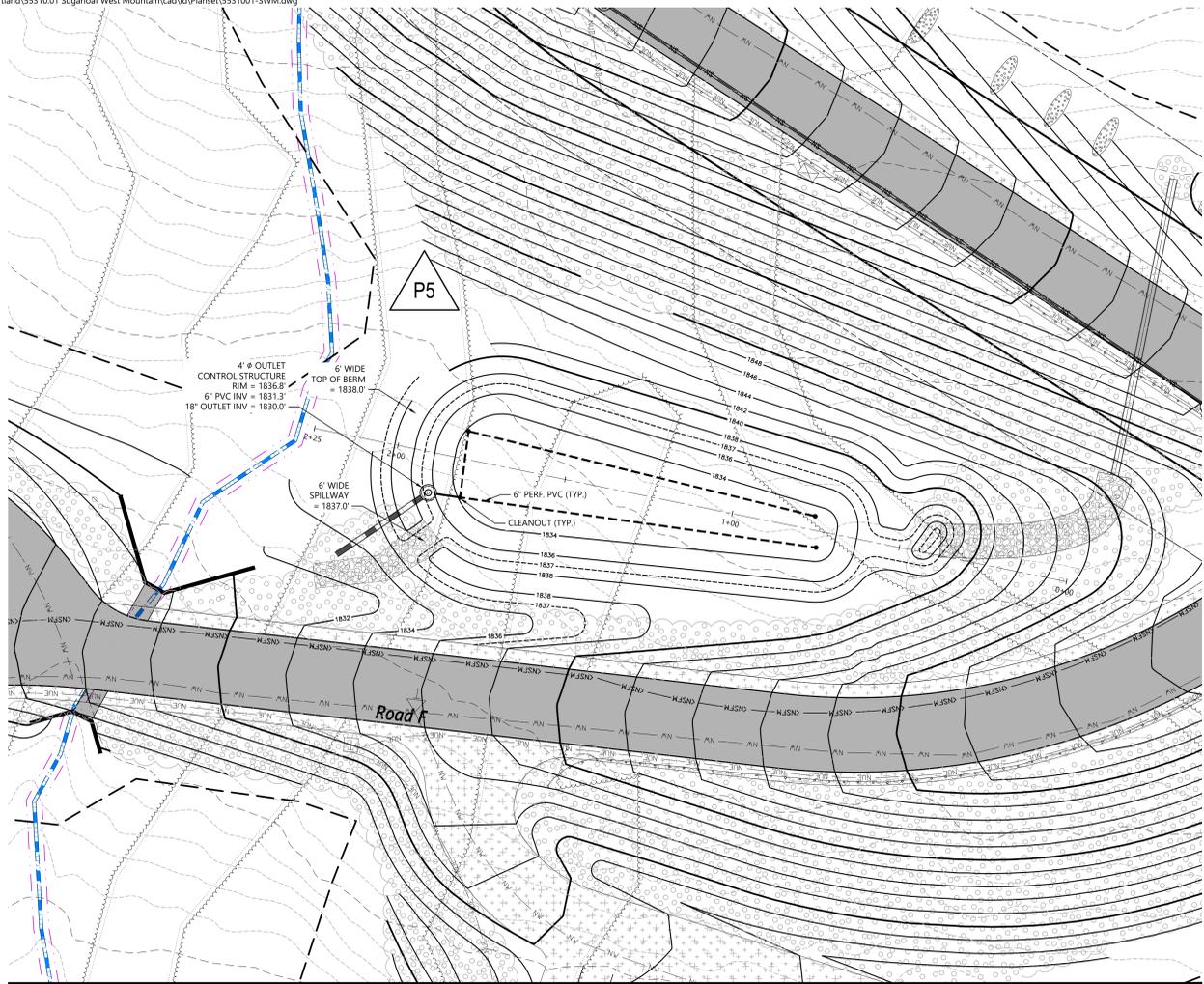
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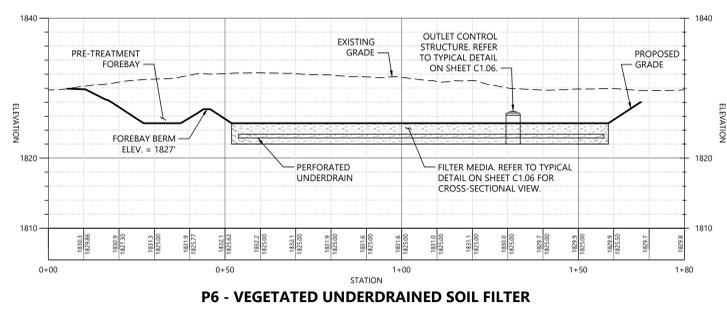
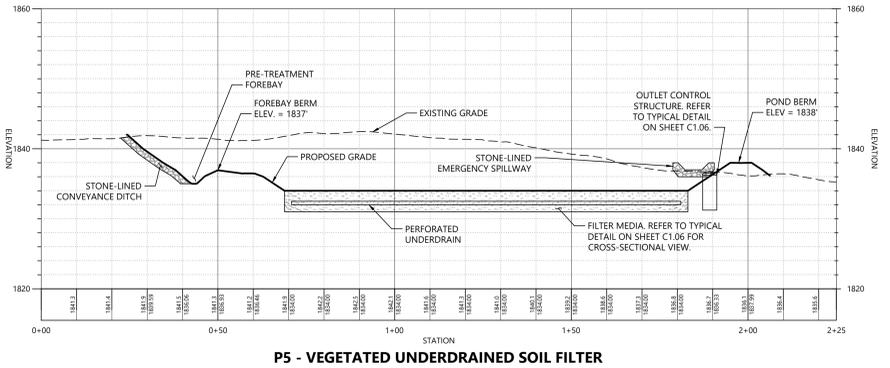
CG-3.02

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Legend

- SOIL TEST PIT LOCATION
- 10 FT CONTOUR
- 2 FT CONTOUR
- PERENNIAL STREAM
- INTERMITTENT STREAM
- NRCS SOIL LAYER BOUNDARY
- WETLAND



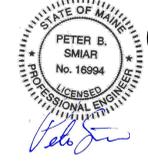
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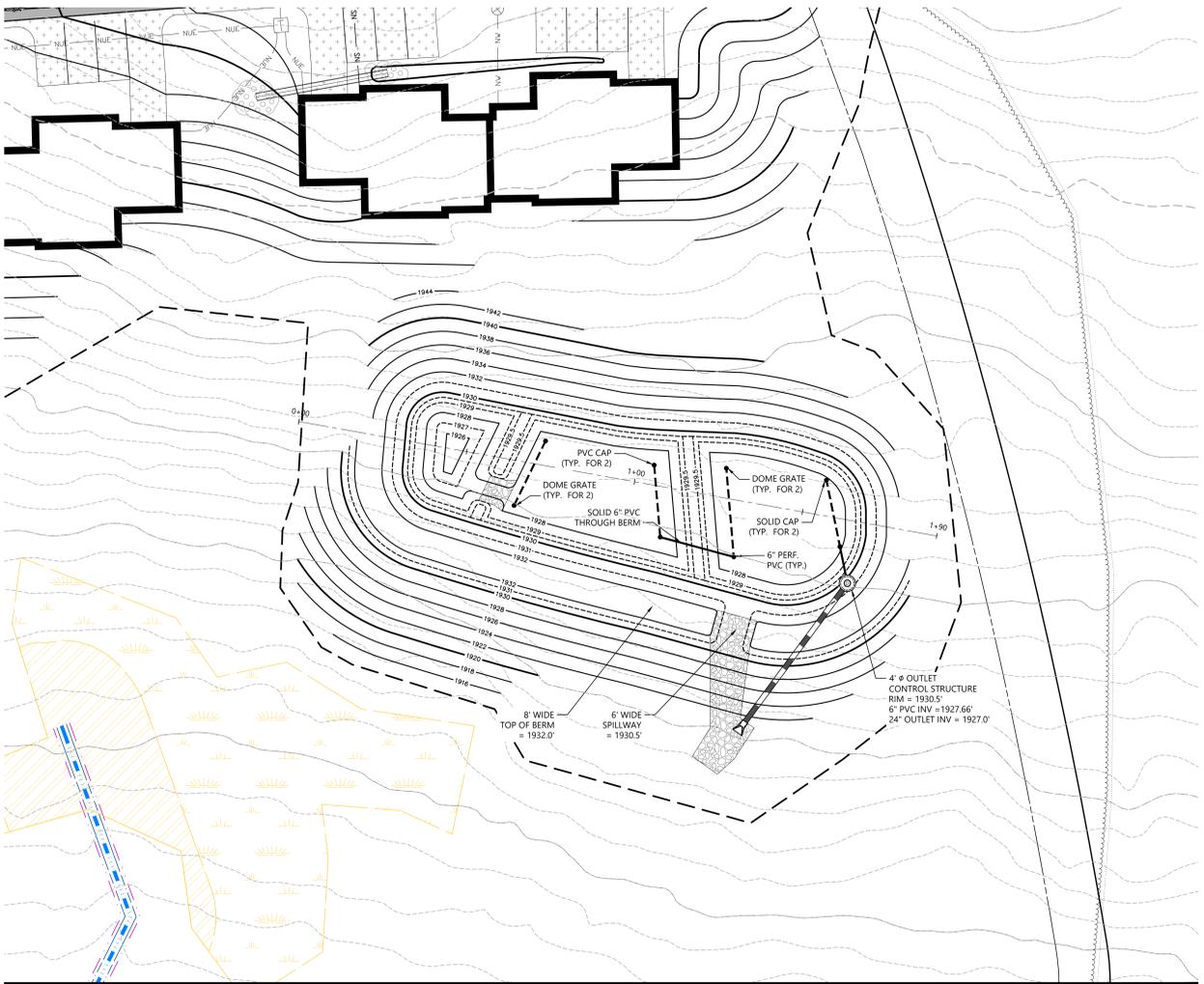
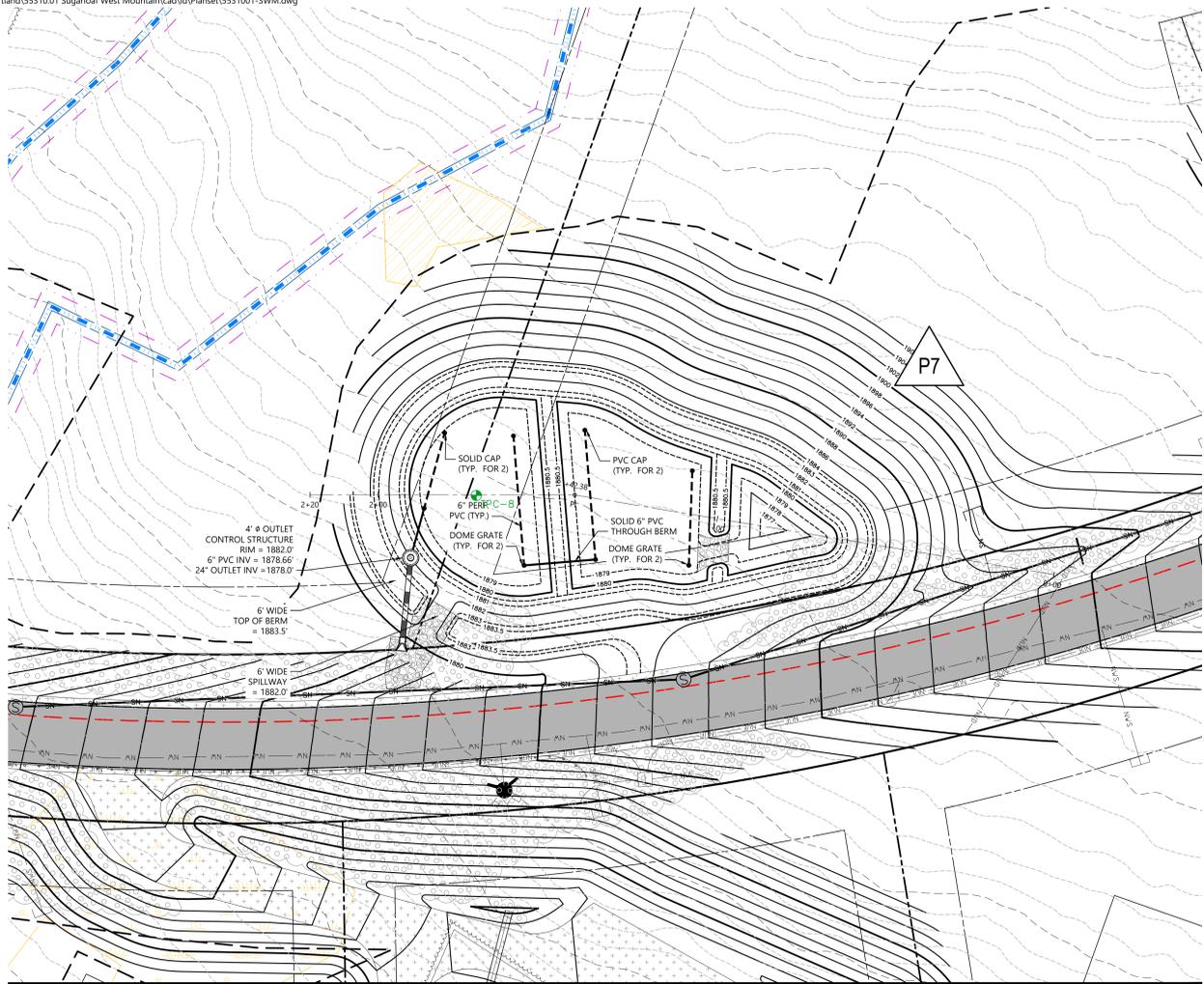
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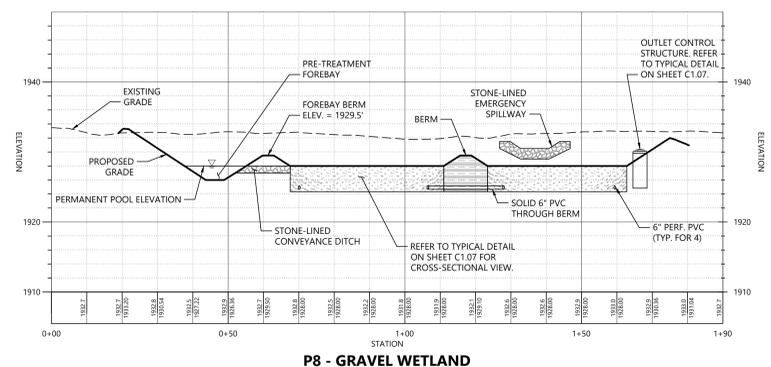
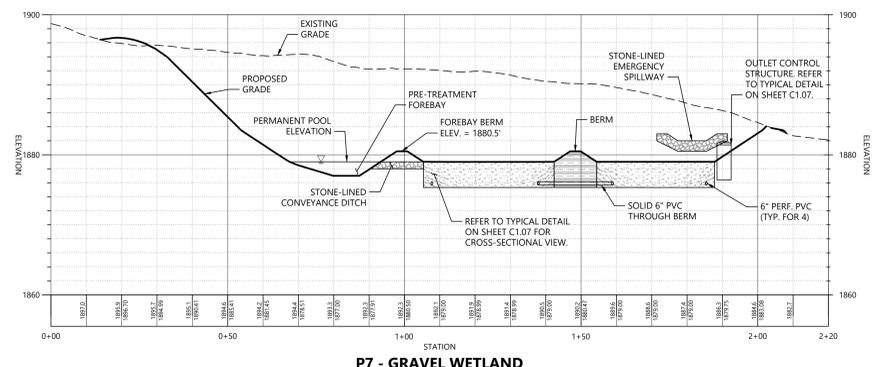
CG-3.03

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Legend

- SOIL TEST PIT LOCATION
- 10 FT CONTOUR
- 2 FT CONTOUR
- PERENNIAL STREAM
- INTERMITTENT STREAM
- NRCS SOIL LAYER BOUNDARY
- WETLAND



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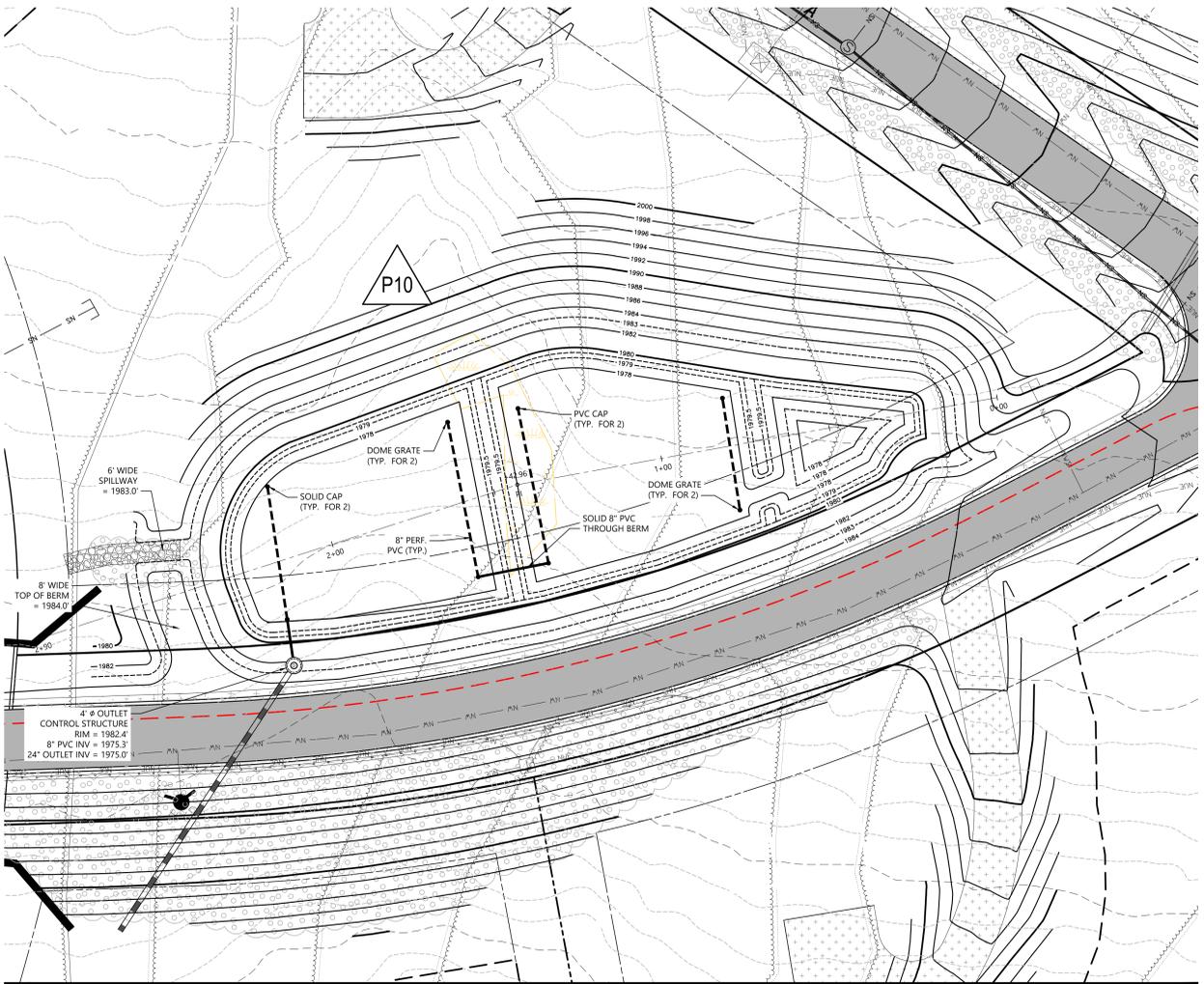
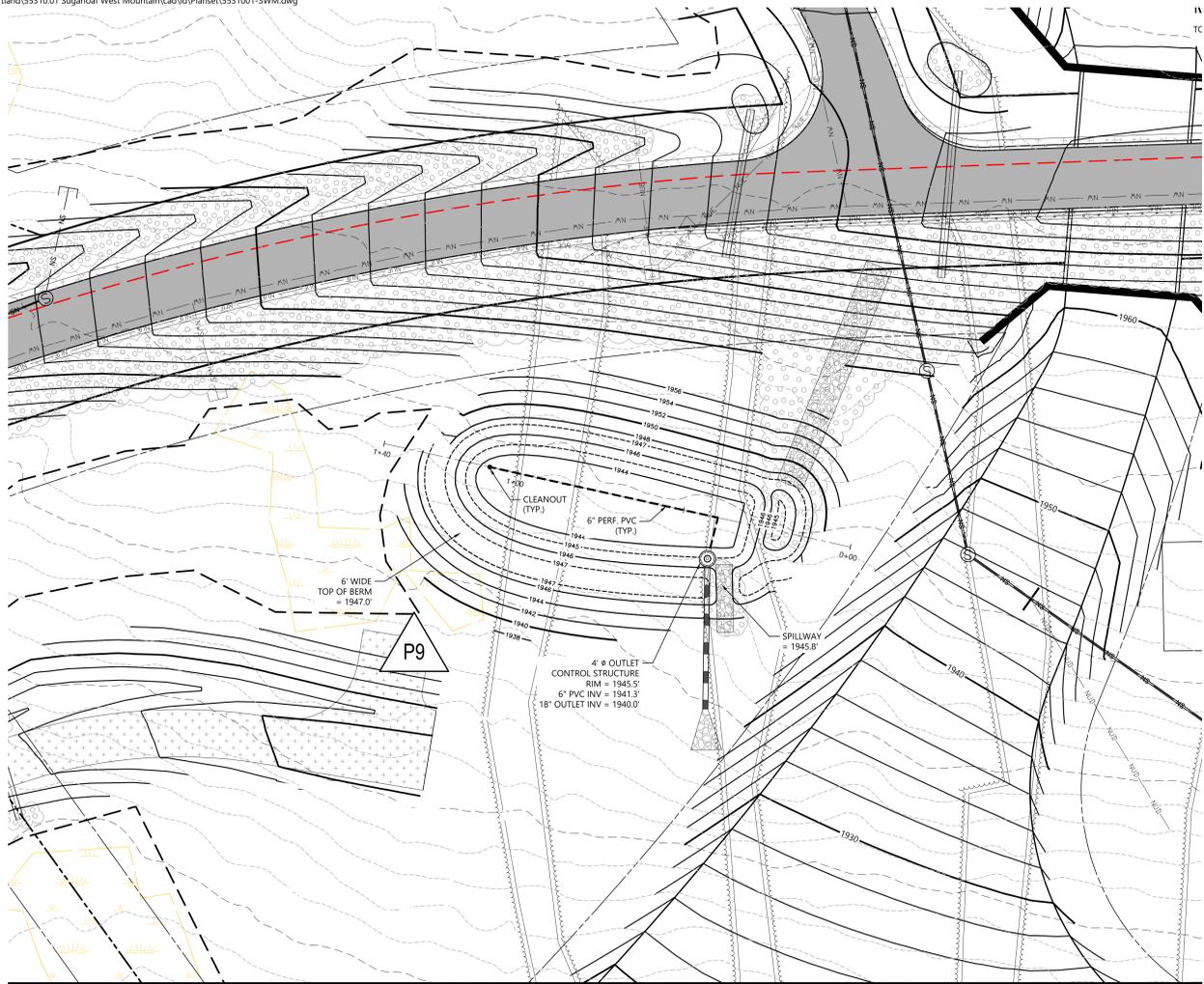
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STATE OF MAINE
PETER B. SMIAK
No. 16994
LICENSED PROFESSIONAL ENGINEER

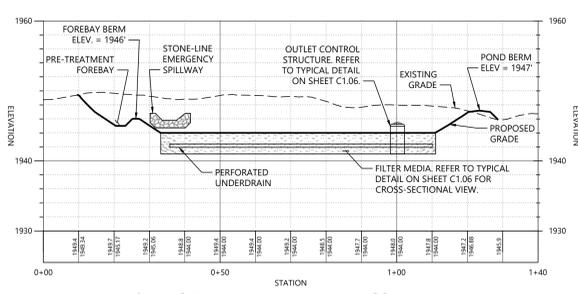
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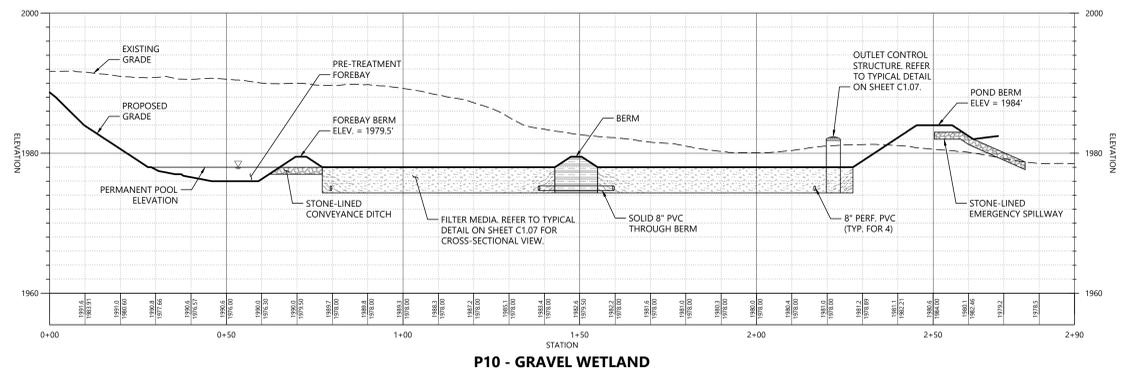


Legend

-  SOIL TEST PIT LOCATION
-  10 FT CONTOUR
-  2 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND



P9 - VEGETATED UNDERDRAINED SOIL FILTER



P10 - GRAVEL WETLAND

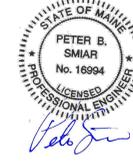


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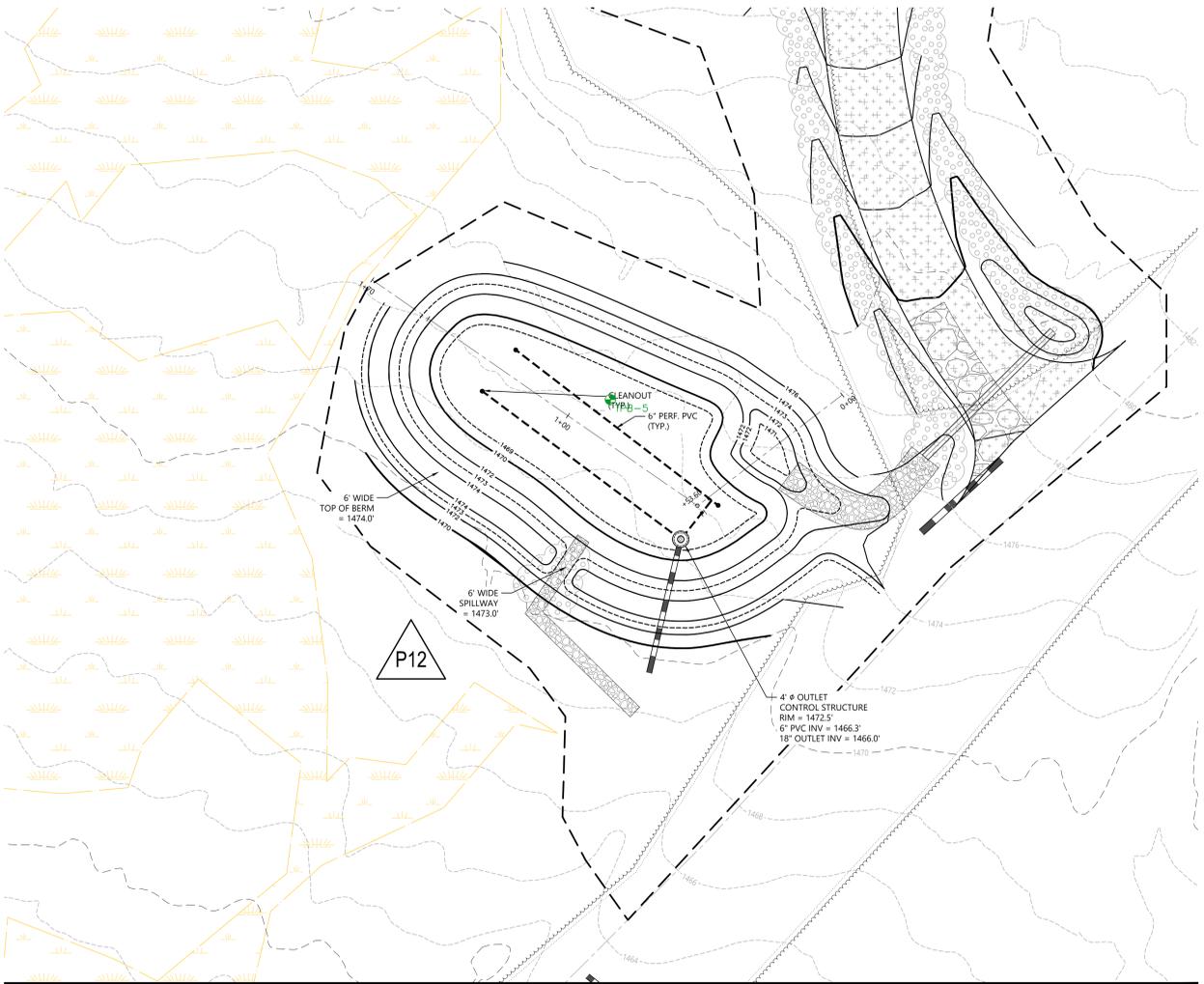
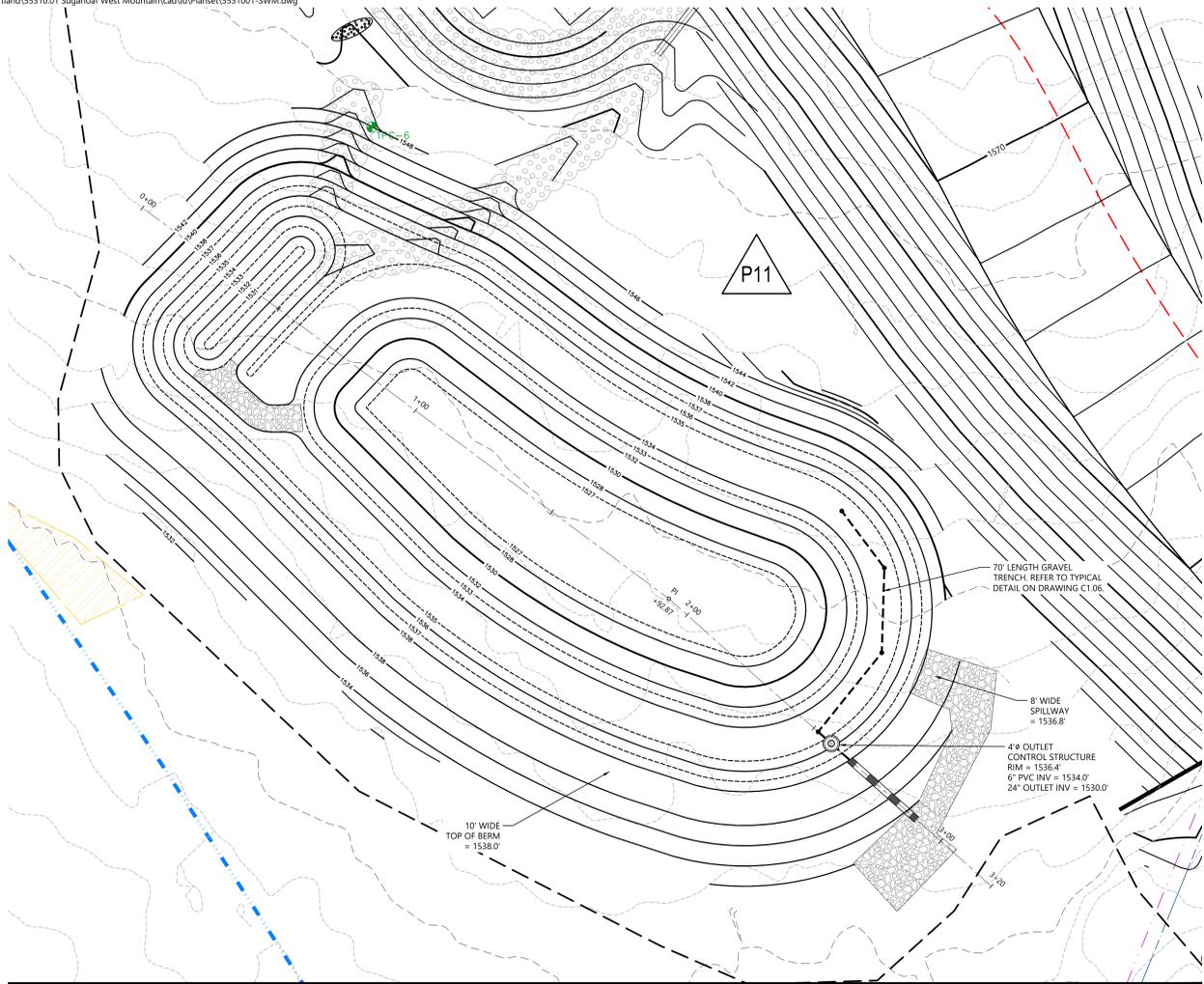
No.	Revision	Date	App'd.

Designed by: **ZJD** Checked by: **PS**
Issued for: **Review** Date: **April 29, 2022**

Not For Construction
Stormwater Facility Plan and
Profile

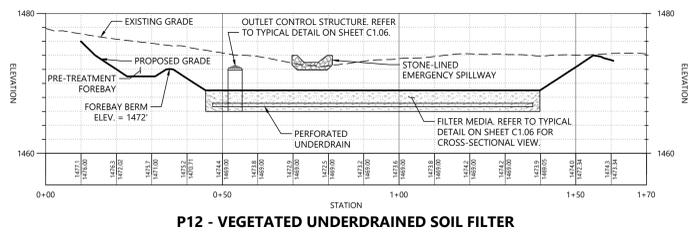
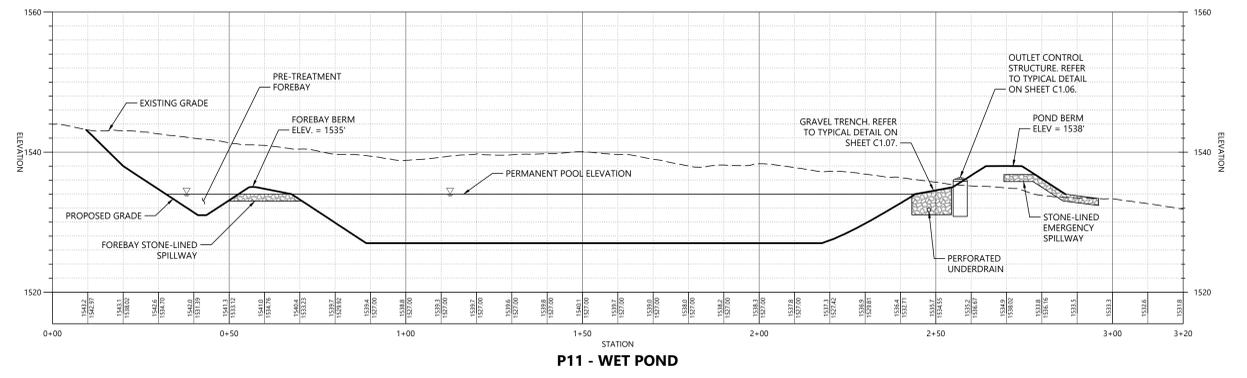


CG-3.05
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Project Number 55310.01



Legend

-  SOIL TEST PIT LOCATION
-  10 FT CONTOUR
-  2 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

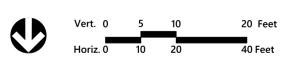
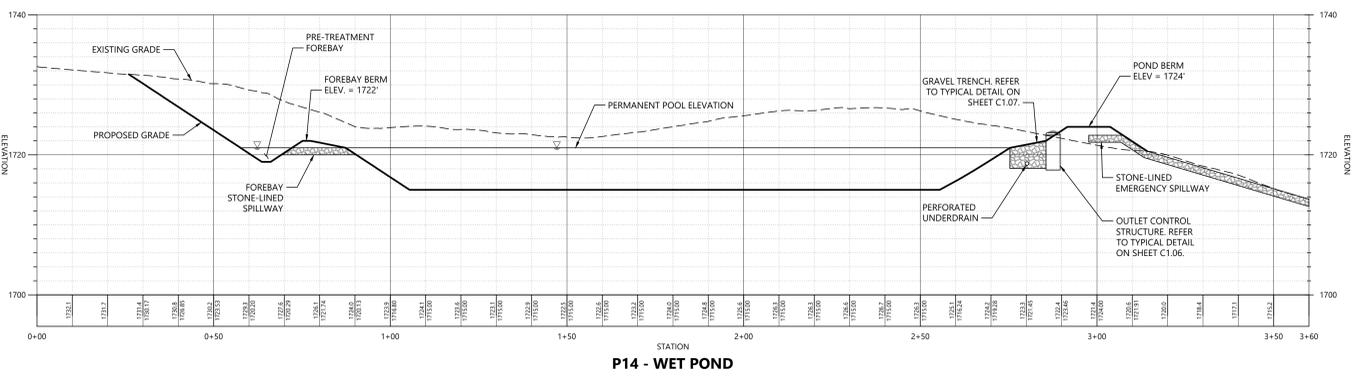
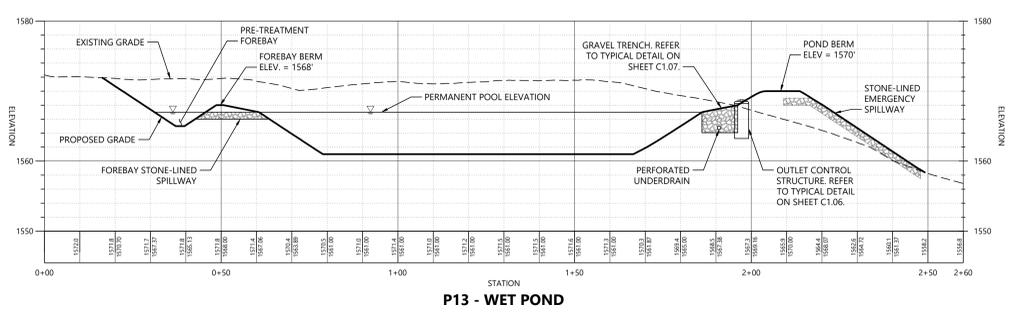
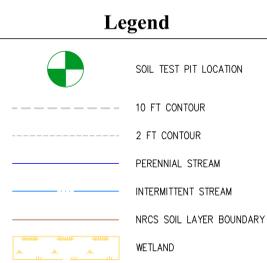
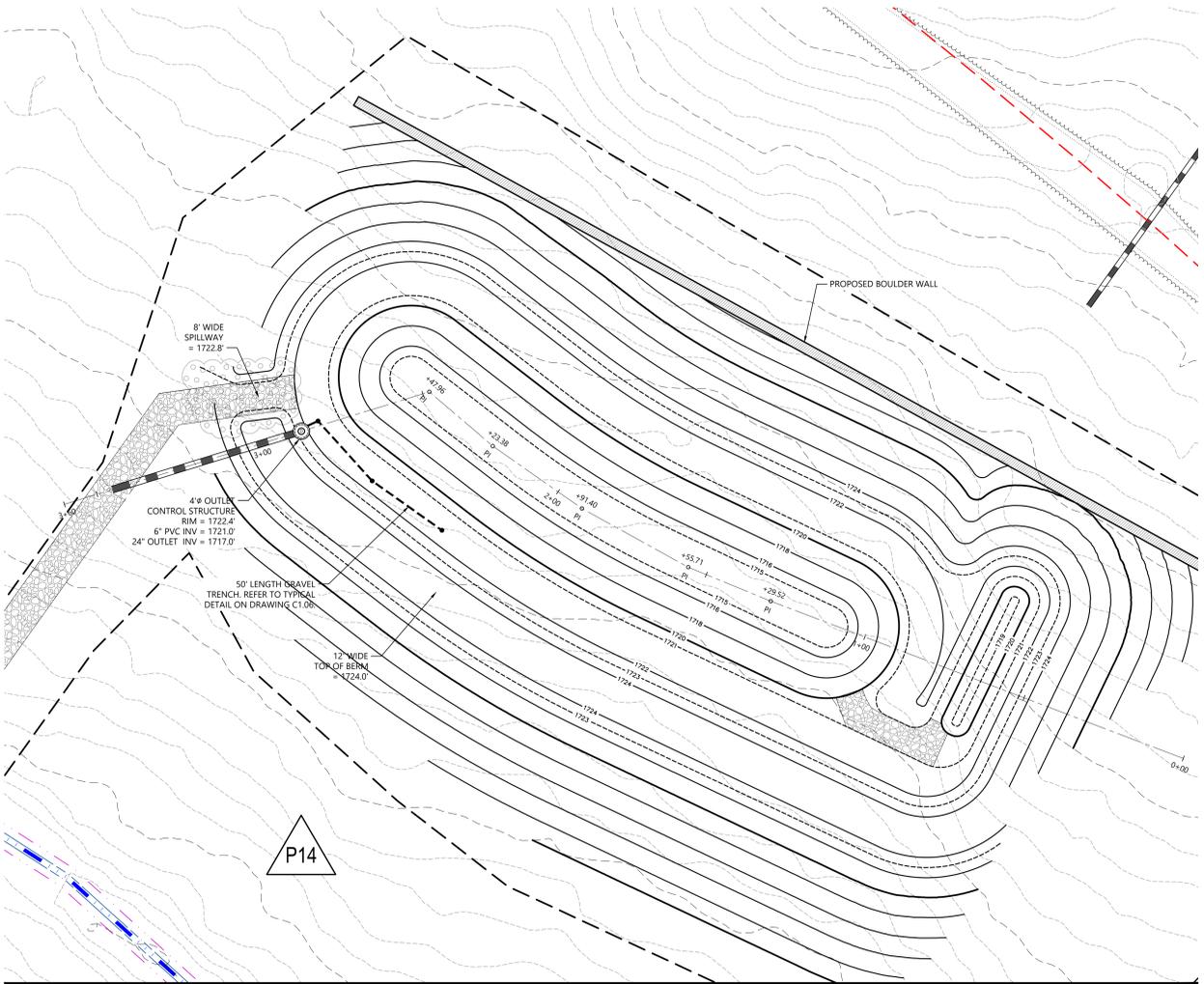
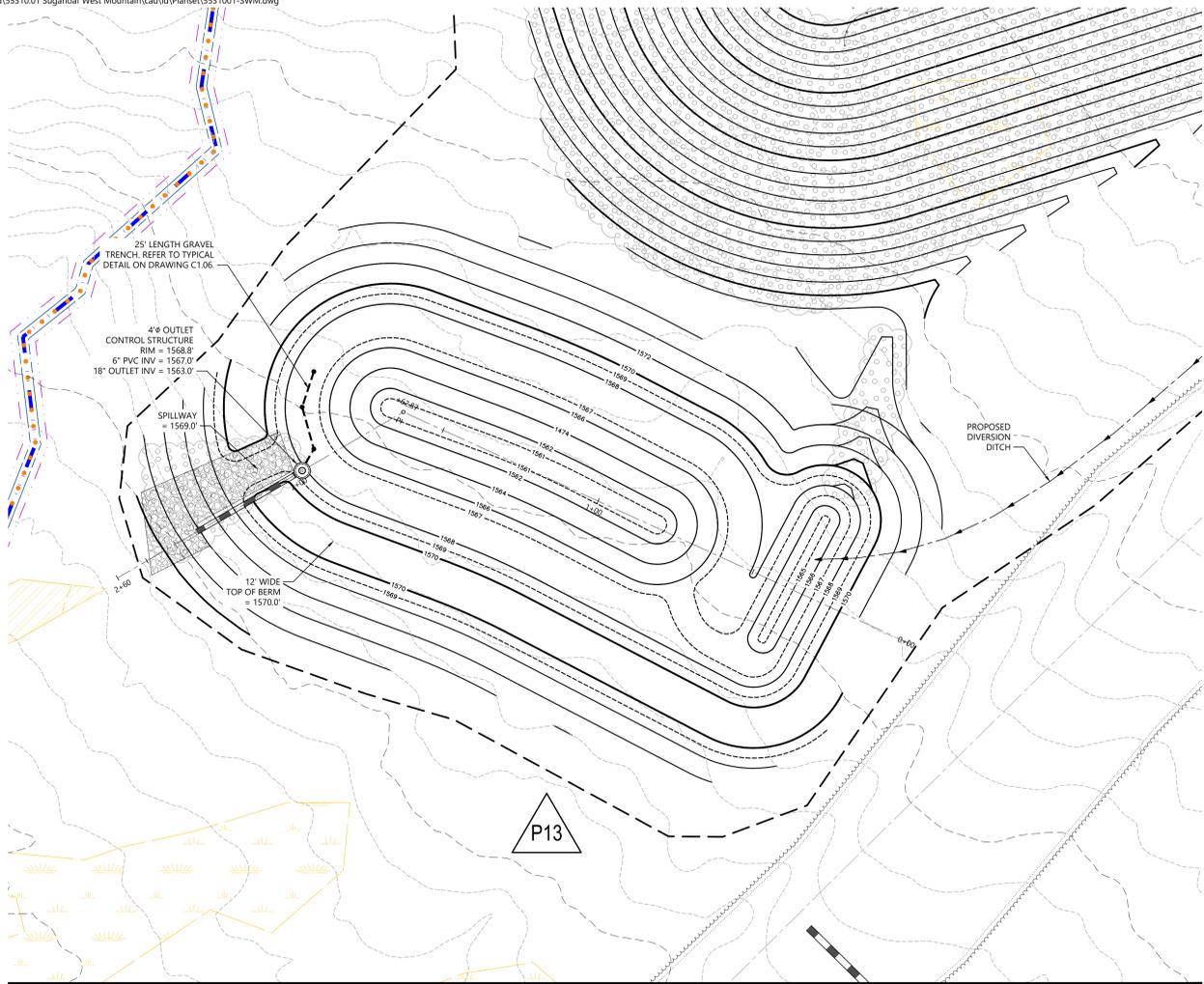
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Issued for: Date: April 29, 2022
Review

Not For Construction
Stormwater Facility Plan and
Profile

STATE OF MAINE
PETER B. SMIRN
No. 16994
LICENSED PROFESSIONAL ENGINEER

CG-3.06

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Project Number 55310.01



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

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STATE OF MAINE
PETER B. SMIAJ
No. 16994
LICENSED PROFESSIONAL ENGINEER

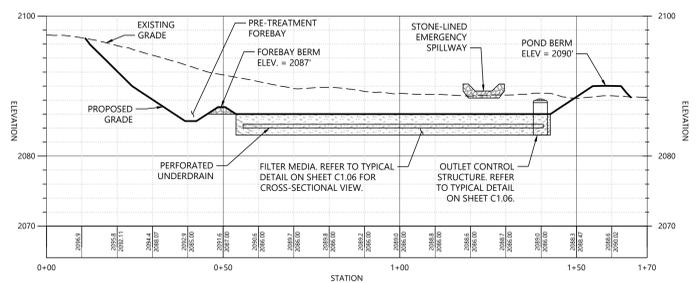
CG-3.07

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Project Number 55310.01

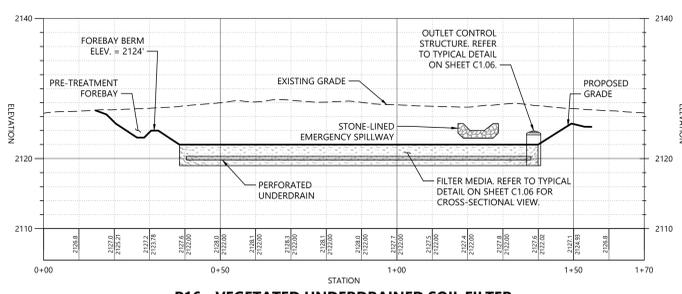


Legend

-  SOIL TEST PIT LOCATION
-  10 FT CONTOUR
-  2 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND



P15 - VEGETATED UNDERDRAINED SOIL FILTER



P16 - VEGETATED UNDERDRAINED SOIL FILTER



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

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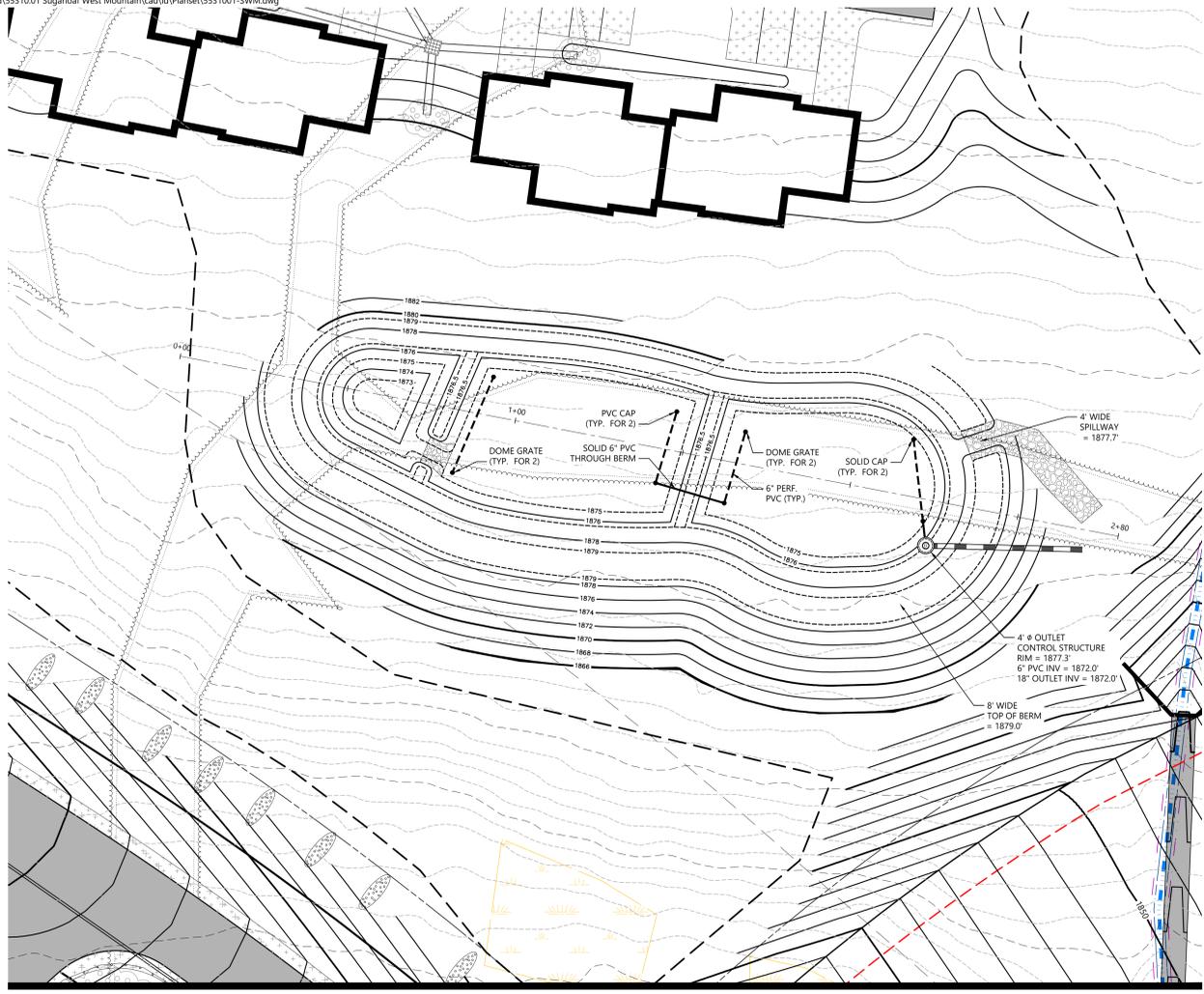
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Issued for: Review Date: April 29, 2022

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Stormwater Facility Plan and
Profile

STATE OF MAINE
PETER B. SMIAJ
No. 16994
LICENSED PROFESSIONAL ENGINEER

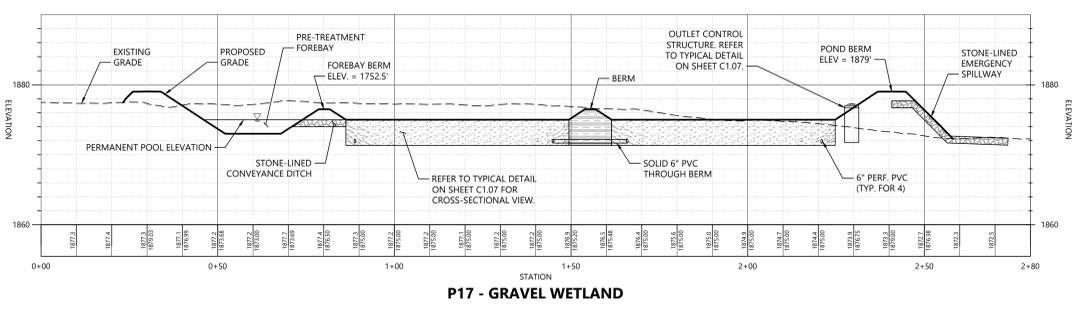
CG-3.08

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Project Number: 55310.01



Legend

- SOIL TEST PIT LOCATION
- 10 FT CONTOUR
- 2 FT CONTOUR
- PERENNIAL STREAM
- INTERMITTENT STREAM
- NRCS SOIL LAYER BOUNDARY
- WETLAND



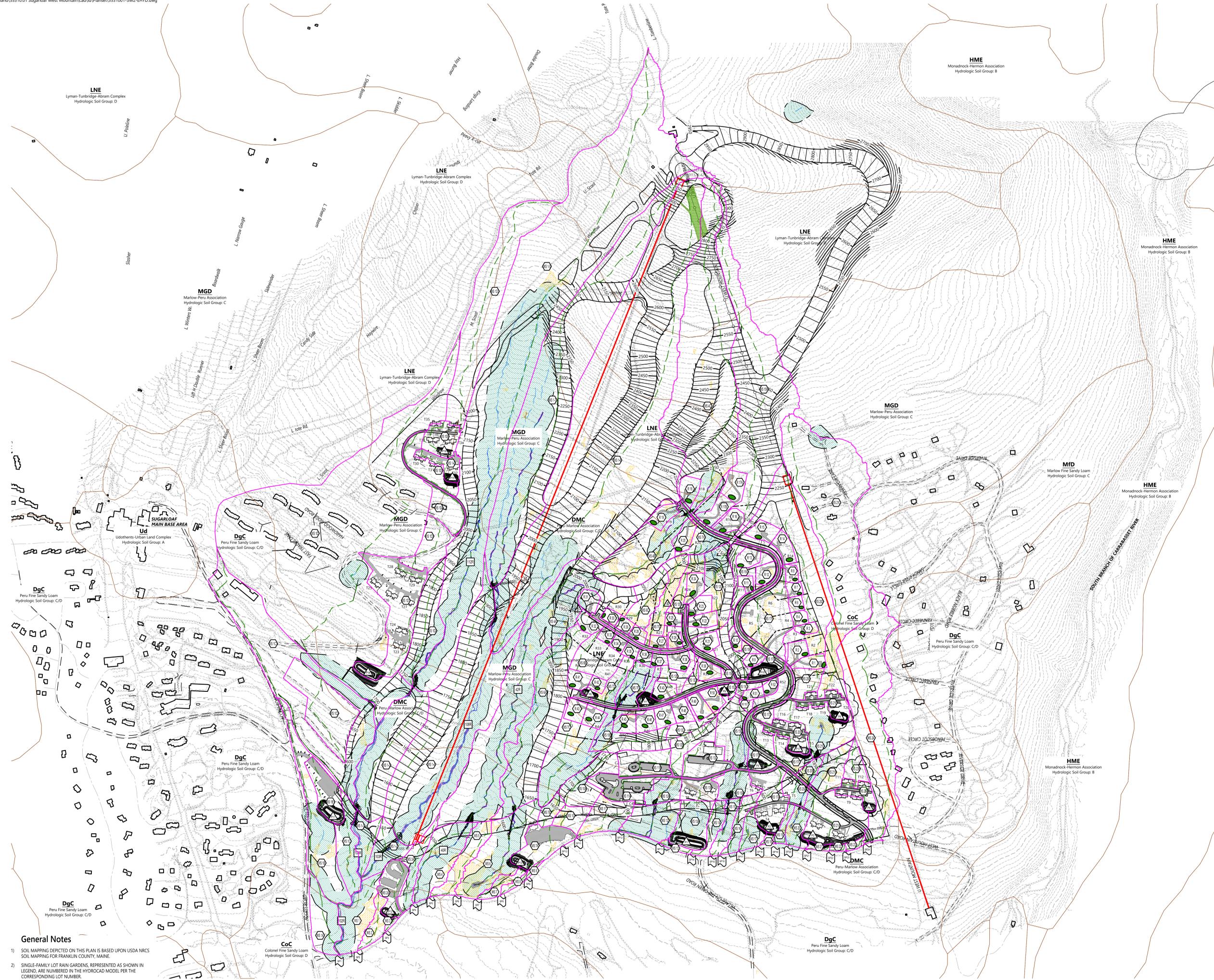
**Sugarloaf Mtn Corp
 West Mountain
 Expansion**
 5092 Access Road
 Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

Designed by: ERK Checked by: PS
 Issued for: Date: April 29, 2022
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Not For Construction
 Drawing Title: **Stormwater Facility Plan and Profile**

CG-3.09
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 Project Number: 55310.01



Legend

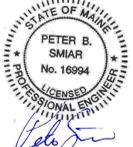
-  1 PROPOSED SUBCATCHMENT
-  PROPOSED WATERSHED
-  TIME OF CONCENTRATION FLOWPATH
-  50 FT CONTOUR
-  10 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND
-  SINGLE-FAMILY RAINGARDEN



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabasset Valley, ME 04947

Designed by:	JJD	Checked by:	PS
Issued for:	Review	Date:	April 29, 2022

Not For Construction
**Overall Proposed
Conditions Hydrology Plan**

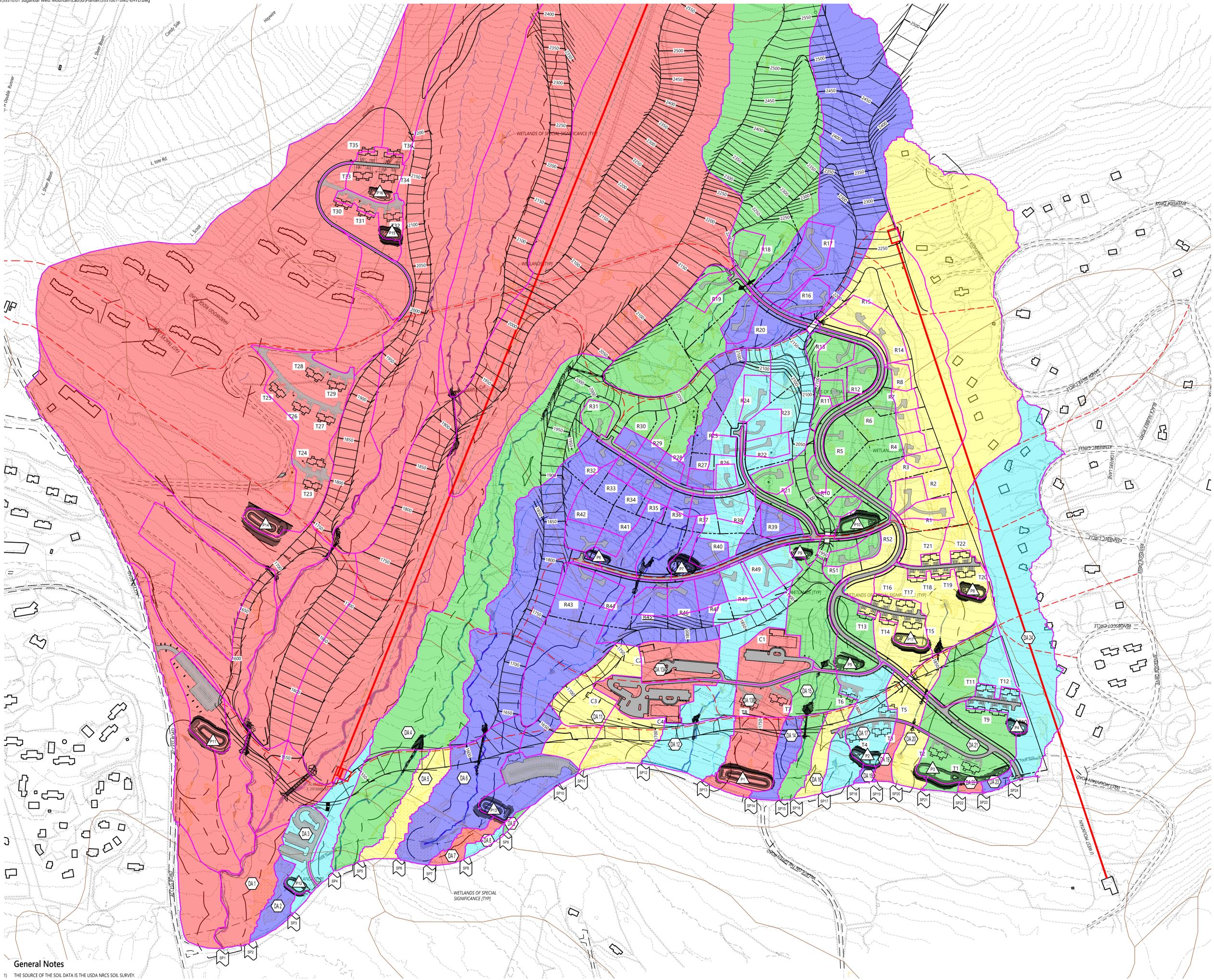


PETER B. SMIAR
No. 16994
PROFESSIONAL ENGINEER

Drawing Number
SW-1
Sheet 44 of 63
Project Number
55310.01

General Notes

- 1) SOIL MAPPING DERIVED ON THIS PLAN IS BASED UPON USDA NRCS SOIL MAPPING FOR FRANKLIN COUNTY, MAINE.
- 2) SINGLE-FAMILY LOT RAIN GARDENS, REPRESENTED AS SHOWN IN LEGEND, ARE NUMBERED IN THE HYDROCAD MODEL PER THE CORRESPONDING LOT NUMBER.



Legend

-  PROPOSED DRAINAGE AREA
-  PROPOSED WATERSHED
-  50 FT CONTOUR
-  10 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

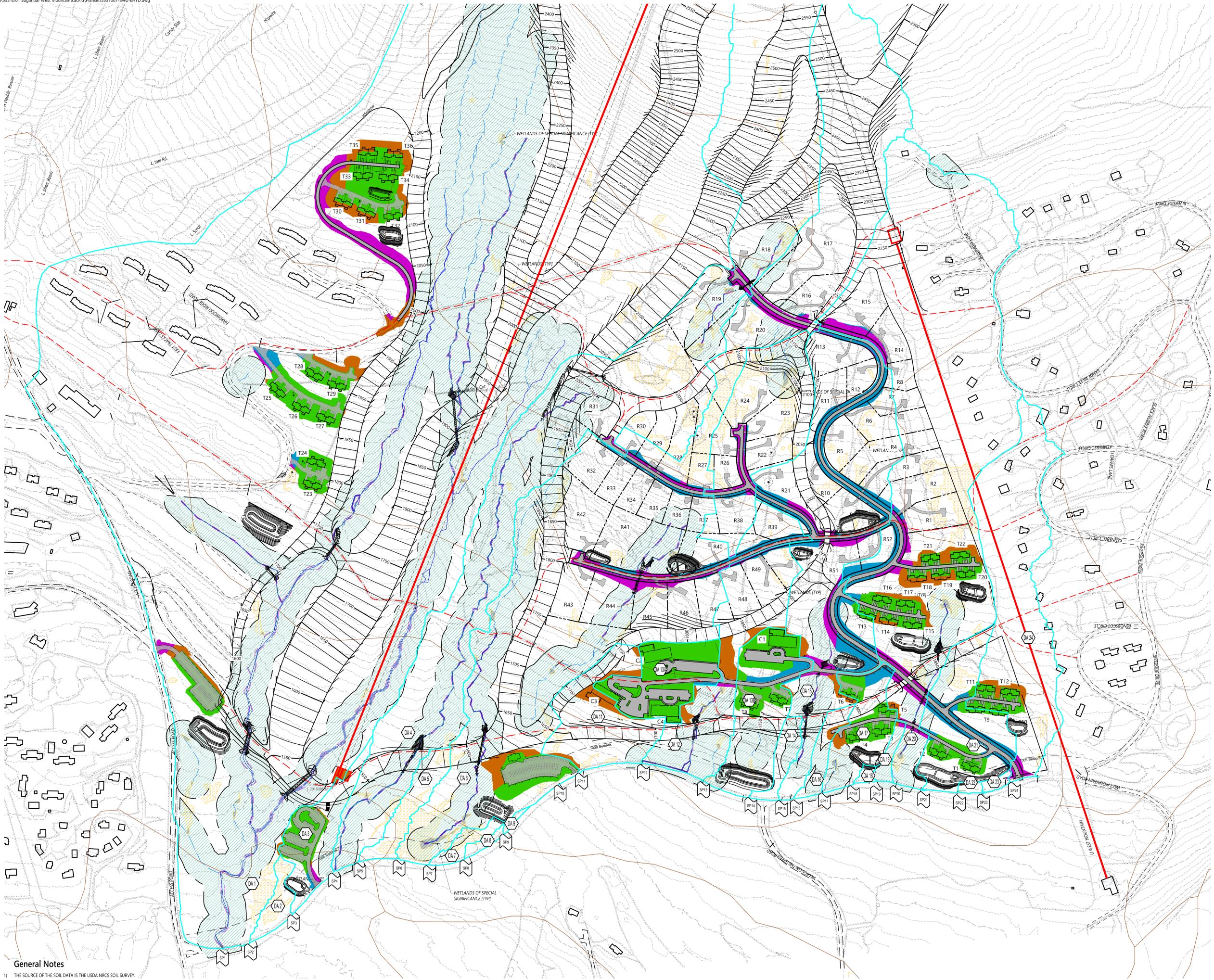
Designed by: JJD Checked by: PS
 Issued for: Date: April 29, 2022
 Review

Not For Construction
 Proposed Drainage Area
 Plan

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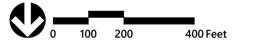
Project Number
55310.01

General Notes
 1) THE SOURCE OF THE SOIL DATA IS THE USDA NRCS SOIL SURVEY.



Legend

-  PROPOSED DRAINAGE AREA
-  PROPOSED DRAINAGE AREA
-  50 FT CONTOUR
-  10 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND
-  LINEAR DEVELOPED AREA - TREATED
-  LINEAR DEVELOPED AREA - NOT TREATED
-  NON LINEAR DEVELOPED AREA - TREATED
-  NON LINEAR DEVELOPED AREA - NOT TREATED



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

Designed by	JJD	Checked by	PS
Issued for	Review	Date	April 29, 2022

Not For Construction
**Jurisdictional Stormwater
Plan**



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Sheet 47 of 63
Project Number 55310.01

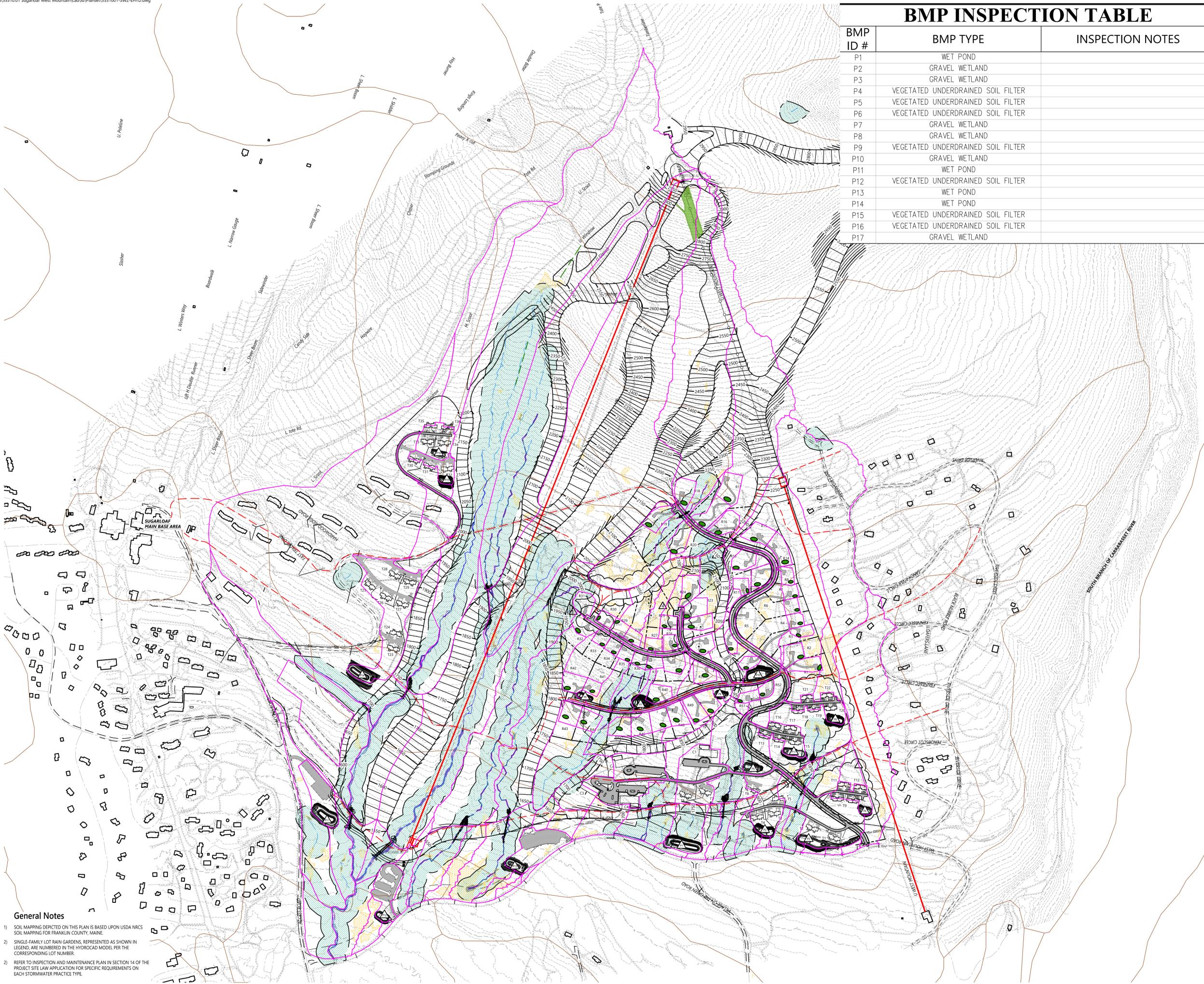
General Notes
1) THE SOURCE OF THE SOIL DATA IS THE USDA NRCS SOIL SURVEY.

BMP INSPECTION TABLE

BMP ID #	BMP TYPE	INSPECTION NOTES
P1	WET POND	
P2	GRAVEL WETLAND	
P3	GRAVEL WETLAND	
P4	VEGETATED UNDERDRAINED SOIL FILTER	
P5	VEGETATED UNDERDRAINED SOIL FILTER	
P6	VEGETATED UNDERDRAINED SOIL FILTER	
P7	GRAVEL WETLAND	
P8	GRAVEL WETLAND	
P9	VEGETATED UNDERDRAINED SOIL FILTER	
P10	GRAVEL WETLAND	
P11	WET POND	
P12	VEGETATED UNDERDRAINED SOIL FILTER	
P13	WET POND	
P14	WET POND	
P15	VEGETATED UNDERDRAINED SOIL FILTER	
P16	VEGETATED UNDERDRAINED SOIL FILTER	
P17	GRAVEL WETLAND	

Legend

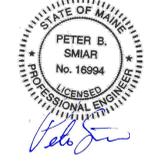
-  PROPOSED SUBCATCHMENT
-  PROPOSED WATERSHED
-  TIME OF CONCENTRATION FLOWPATH
-  50 FT CONTOUR
-  10 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND
-  SINGLE-FAMILY RAINGARDEN



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabasset Valley, ME 04947

Designed by	ZJD	Checked by	PS
Issued for	Review	Date	April 29, 2022

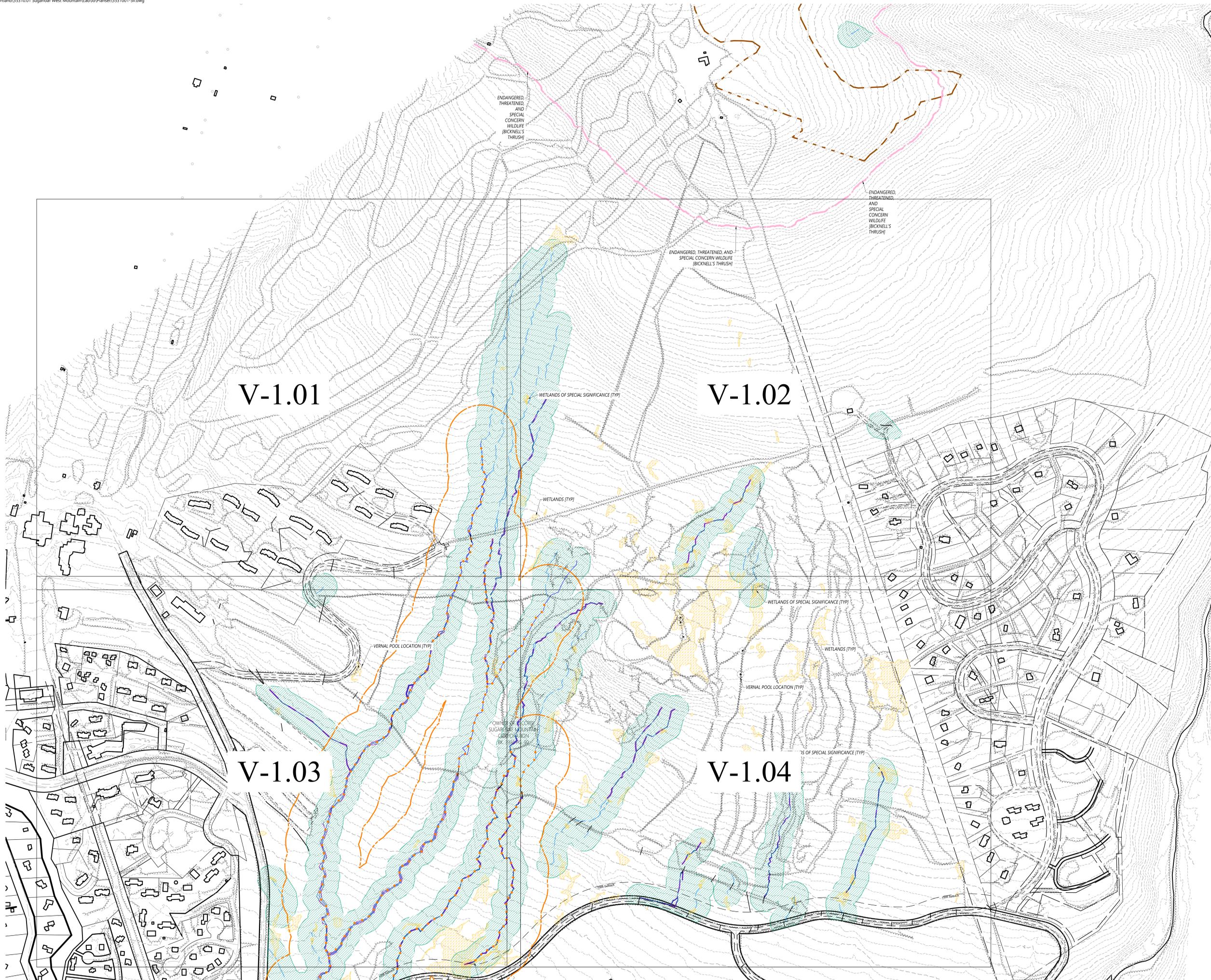
Not For Construction
Drawing Title
BMP Location Plan



SW-1.4
Sheet 48 of 63
Project Number 55310.01

General Notes

- SOIL MAPPING DEPICTED ON THIS PLAN IS BASED UPON USDA NRCS SOIL MAPPING FOR FRANKLIN COUNTY, MAINE.
- SINGLE-FAMILY LOT RAINGARDENS, REPRESENTED AS SHOWN IN LEGEND, ARE NUMBERED IN THE HYDROCAD MODEL PER THE CORRESPONDING LOT NUMBER.
- REFER TO INSPECTION AND MAINTENANCE PLAN IN SECTION 14 OF THE PROJECT SITE LAW APPLICATION FOR SPECIFIC REQUIREMENTS ON EACH STORMWATER PRACTICE TYPE.

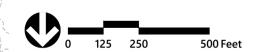


V-1.01

V-1.02

V-1.03

V-1.04



**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

No. Revision Date App'd.

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Overall Existing Conditions
Plan

STATE OF MAINE
PETER B. SMAR
No. 16994
LICENSED PROFESSIONAL ENGINEER
V-1.00
Sheet 52 of 63
Project Number 55310.01

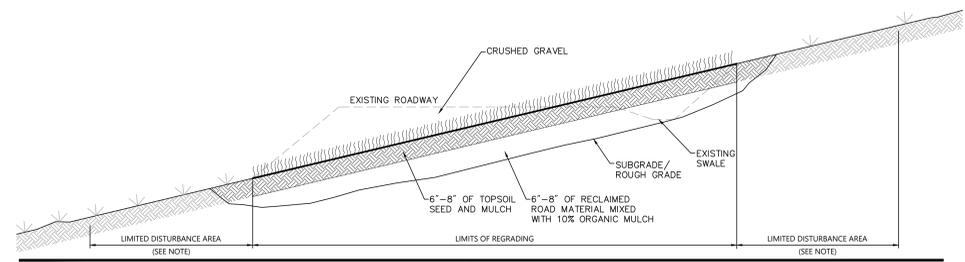
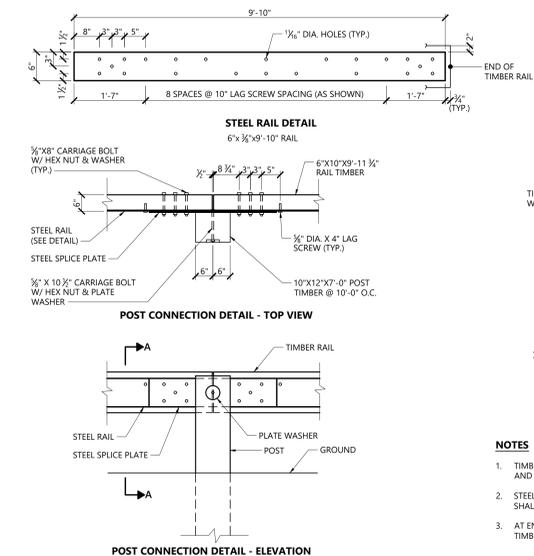
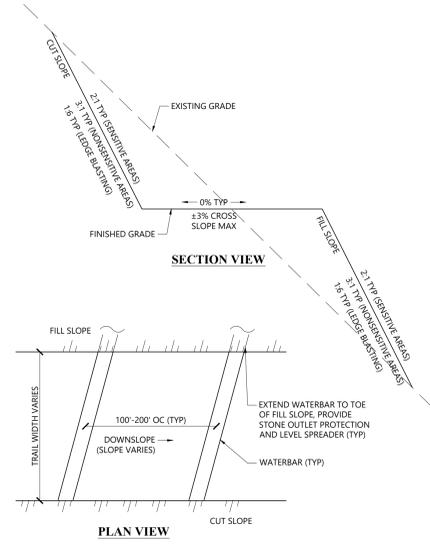


TABLE 1

COMMON NAME	SCIENTIFIC NAME
RED FESCUE	FESTUCA RUBRA
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARUM
SWITCH GRASS	PANICUM VIRGATUM
ANNUAL RYE	ELYMUS VIRGINICUS
BIG BLUESTEM	ANDROPOGON GERARDII
INDIAN GRASS	SORGHASTRUM NUTANS
DEER TONGUE	PANICUM CLAUDE-STINUM
PARTRIDGE PEA	CHAMAECRISTA FASCICULATA
SOFT RUSH	JUNCUS EFFUSUS
PAITH RUSH	JUNCUS TENUIS
ROUGH BENTGRASS	AGROSTIS SCABRA

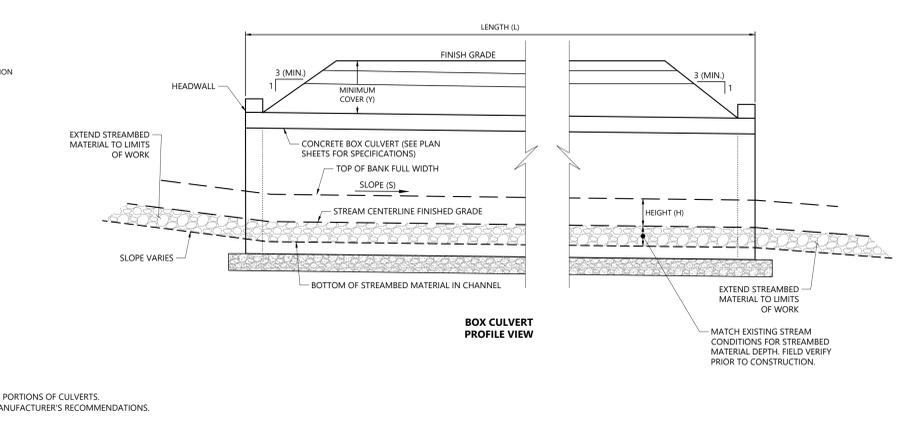
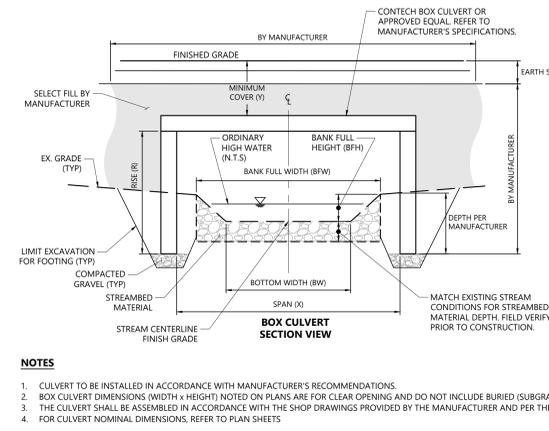
* SPECIFIED SEED MIX IS THE NEW ENGLAND LOGGING ROAD MIX (PROPRIETARY BLEND) FROM NEW ENGLAND NURSERY PLANTS, INC. HTTP://WWW.NEP.COM - OR APPROVED EQUIVALENT SHOULD BE APPLIED AT A MINIMUM RATE OF 20 LBS/ACRE (1 LB / 2,000 SF)



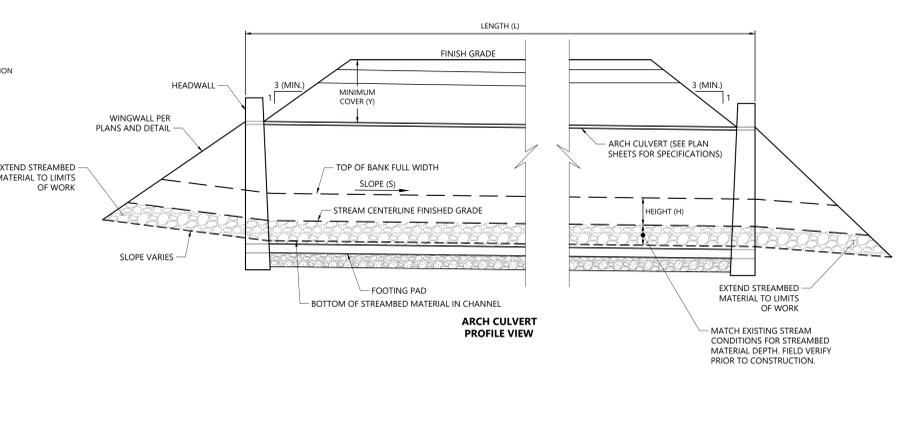
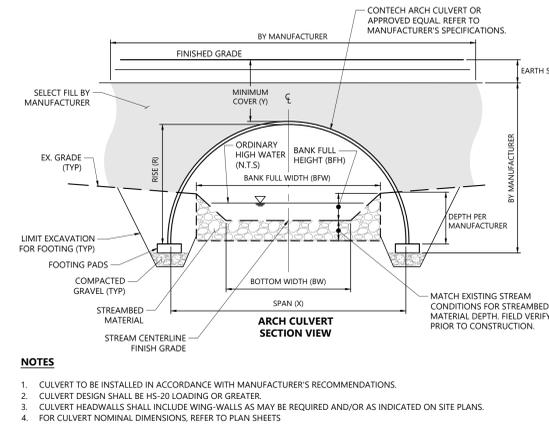
Roadway Reclamation Detail ST-06
N.T.S. Source: VHB

Typical Ski Trail Design 6/16
N.T.S. Source: VHB

Steel-Backed Wood Guardrail 1/16
N.T.S. Source: VHB



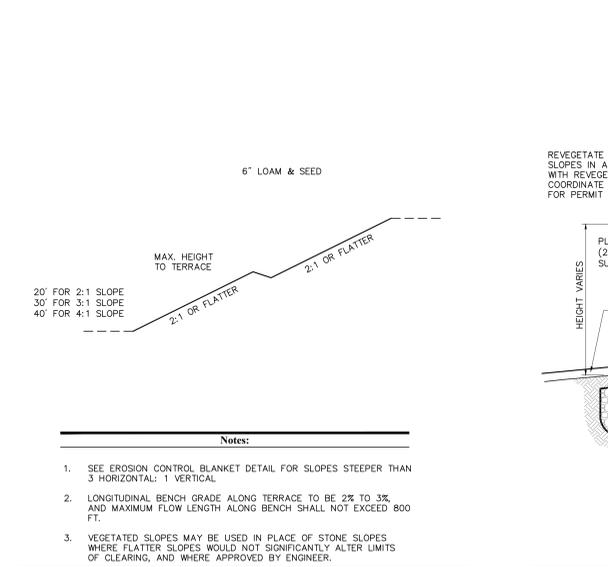
Typical Stream Crossing (Box Culvert) 1/16
N.T.S. Source: VHB/CONTECH



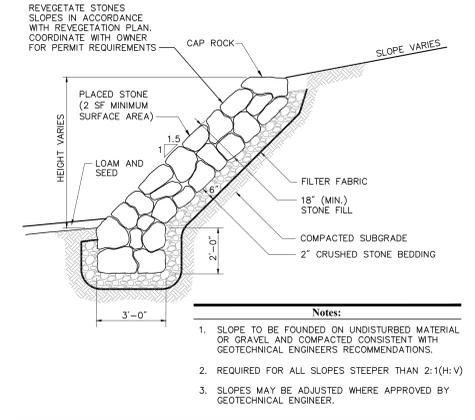
Typical Stream Crossing (Arch Culvert) 1/16
N.T.S. Source: VHB/CONTECH

Typical Ski Trail Design 6/16
N.T.S. Source: VHB

Steel-Backed Wood Guardrail 1/16
N.T.S. Source: VHB



Vegetated Slopes (2:1 or Flatter) EV-10
N.T.S. Source: VHB



Placed Stone Slope EV-11
N.T.S. Source: VHB

STREAMBED MATERIAL FOR CHANNEL FORMATION AND OUTLET PROTECTION

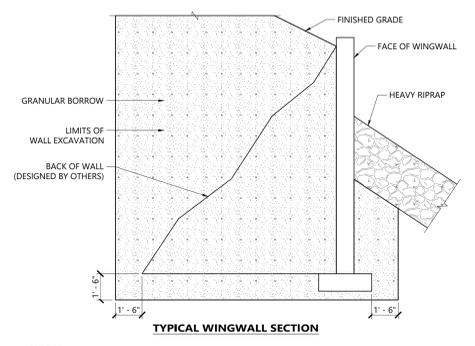
THE BOULDER-COBBLE-GRAVEL-SAND MATERIAL SPECIFIED BELOW MUST BE APPROVED BY THE ENGINEER AT THE CONTRACTOR'S PROPOSED SOURCE PRIOR TO BEING PLACED IN THE STREAM CHANNEL.

Cumulative Percent of particles finer than indicated particle size	PARTICLE SIZE (inches)	PARTICLE TYPE
D10	< 0.04	sand
D15	1.0-2.0	gravel
D35	3.0-4.0	cobble
D50	8.0-10.0	cobble
D84	14.0-16.0	boulder

DESCRIPTION	SIZE	BUCKETS	PERCENT
ROCK/BOULDER	WELL GRADED 12-16"	0.5	7-12%
ROCK/COBBLE	WELL GRADED 8-12"	2	35-40%
BANK RUN GRAVEL	0.08-2.5"	2	35-40%
COURSE SAND	0.04-0.08" (1-2 MM)	0.75	12-17%

- NOTES**
- ALL IMPORTED BEDDING MATERIAL SHALL CONSIST OF FIELD STONE OR NATURAL RIVER ROCK SIMILAR IN COLOR AND APPEARANCE TO IN-SITU MATERIALS.
 - CRUSHED STONE SHALL NOT BE PERMITTED.
 - BANK RUN GRAVEL MAY INCLUDE UP TO 5% CLAY, SILT, AND/OR SAND, AND UP TO 25% COBBLE AND SHALL HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
 - SAND SHALL BE WELL MIXED AND PREDOMINANTLY 1.0 TO 2.0 MILLIMETERS IN SIZE AND HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
 - THE GRADATION OF IMPORTED MATERIALS SHALL FALL WITHIN THE ENVELOPE AS INDICATED IN THE TABLE ABOVE.
 - COBBLE-GRAVEL VOID RATIO IS ESTIMATED AT 20%. THEREFORE, 20% BY VOLUME OF CL MATERIAL SHALL BE ADDED TO THE COBBLE-GRAVEL-SAND MATERIAL PRIOR TO PLACEMENT IN THE DESIGNATED AREAS. SEE CONSTRUCTION SPECIFICATIONS FOR DETAILS RELATIVE TO MIXING, PLACING, AND COMPACTING STREAMBED MATERIAL.

Streambed Material 1/16
N.T.S. Source: VHB



- NOTES**
- THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE WINGWALLS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 534. THE WALLS SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. COST OF WINGWALLS INCLUDED IN ITEM 534.71.
 - THE PRECAST UNITS SHALL BE ONE OF THE FOLLOWING, OR APPROVED EQUAL:
 - "T-WALL" AS MANUFACTURED BY A LICENSED MANUFACTURER OF NEEL COMPANY.
 - "DOUBLEWALL" AS MANUFACTURED BY A LICENSED MANUFACTURER OF DOUBLEWALL CORP., PLAIN, CONNECTICUT.
 - THE MAXIMUM FACTORED BEARING RESISTANCE FOR THE WINGWALLS IS 5 KSF FOR THE SERVICE CONDITION. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR FACTORED BEARING RESISTANCE FOR THE STRENGTH CONDITION BASED ON STM LENGTH RANGES.
 - ELEVATION AT BOTTOM OF WALLS MAY BE LOWERED FOR CONSTRUCTABILITY AT NO ADDITIONAL COST TO THE DEPARTMENT.

Typical Wingwall 1/16
N.T.S. Source:

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: April 29, 2022

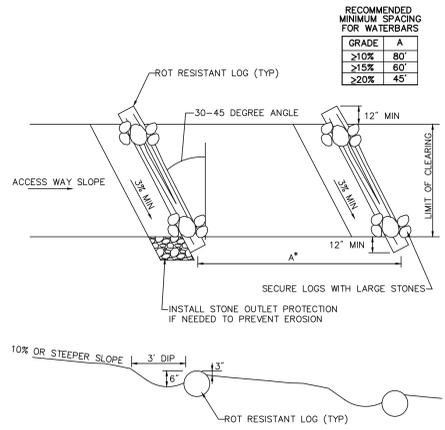
Review

Not For Construction

Site Details

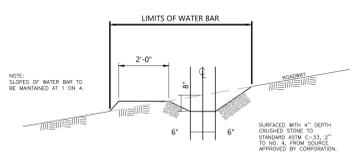
STATE OF MAINE
PETER B. SMAR
No. 16994
LICENSED PROFESSIONAL ENGINEER

Drawing Number
C-1.02
Sheet 58 of 63
Project Number
55310.01



RECOMMENDED MINIMUM SPACING FOR WATERBARS

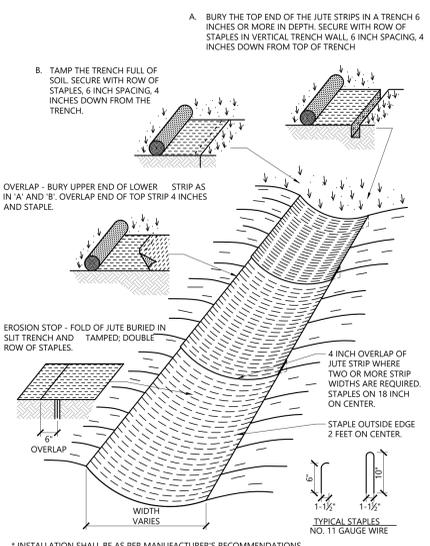
GRADE	A
>10%	80
>15%	60
>20%	45



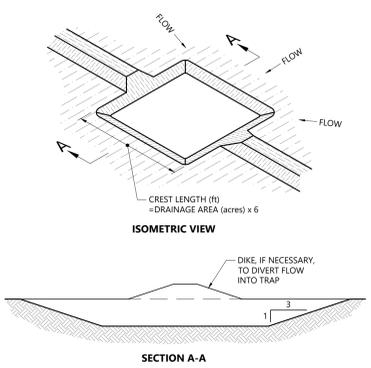
NOTE:

ROAD SLOPE	WATER BAR SPACING (ft)
5	150
10	100
15 AND OVER	50

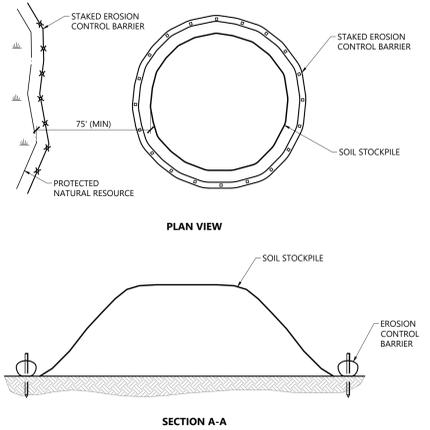
- Notes:**
1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
 2. STRIP EXISTING SOD FROM BASE OF DIVERSION RIDGE PRIOR TO PLACING FILL.
 3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
 4. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE 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.



*INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS



- 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.



- 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.

Waterbars - For Cross-Country Utility Clearings ER-03

N.T.S. Source: VHB

Typical Water Bar Detail ER-04

N.T.S. Source: VHB

Erosion Control Blanket Swale Installation 1/16

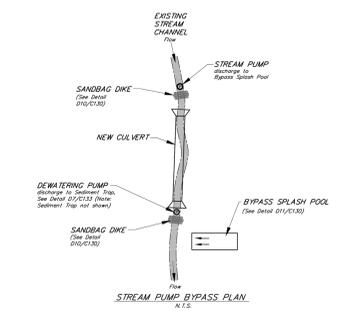
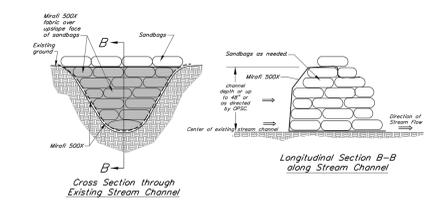
N.T.S. Source: VHB

Temporary Sediment Trap

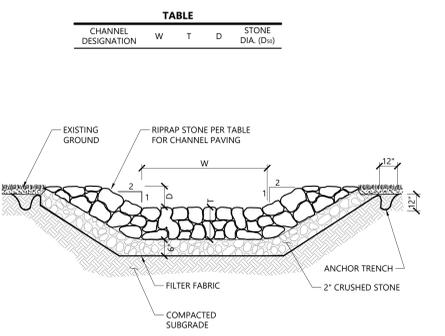
N.T.S. Source: VHB

Soil Stockpile Sediment Control

N.T.S. Source: VHB



- STREAM PUMP BYPASS PLAN**
1. When excavation work is performed in a stream channel with an active stream flow, the stream flow shall be collected and bypassed 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 right side of the work area. The flow collected above the sandbag dike shall be pumped to a splash pool on the down-drain side of the work area. The splash pool shall be located at a location approved by the DPSC and/or the DPSC specialist such that the flow returning from the splash pool to the stream channel flow through rock stone on fabric.
 2. The Contractor shall have a pre-construction meeting with the DPSC Specialist 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 procedure. This meeting shall occur at least 2 days prior to the stream culvert installation.
 3. Whenever practical, work within a stream bed shall be done during low flow conditions. The Contractor shall conform the work schedule with the DPSC at least 48 hours prior to the work. New culvert, pump, or outlet and channel length (if required) shall be completed in one day. If work can not be completed in one day, the stream bypass shall be removed overnight.
 4. Contractor shall have all equipment inside 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.
 5. Install temporary dike at upstream and downstream ends of proposed culvert. Install pumps at upstream side of dike. Pump capacity shall be 2 times estimated flow. Keep suction end of pump piping 12" off bottom of the stream, where possible.
 6. 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.



- 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.

Stream Channel Sandbag Dike Detail EV-02

N.T.S. Source: VHB

Stream Culvert Installation Procedure EV-07

N.T.S. Source: VHB

Riprap Channel 1/16

N.T.S. Source: VHB

Mulch Table EV-08

N.T.S. Source: VHB

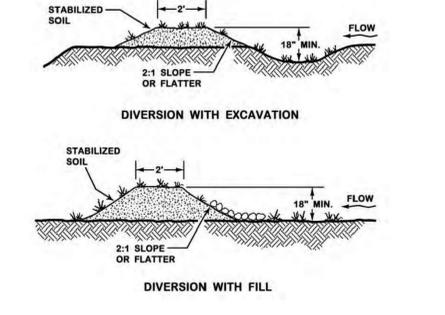
Runoff Diversion

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

- EROSION PREVENTION AND SEDIMENT CONTROL NOTES**
- INSTALLATION**
1. INSTALL SEDIMENT BARRIERS ON YOUR SITE BEFORE DISTURBING SOILS. SEE THE "SEDIMENT BARRIERS" MEASURE FOR DETAILS ON INSTALLATION AND MAINTENANCE.
 2. CONSTRUCT A DIVERSION DITCH TO KEEP UPSLOPE RUNOFF OUT OF WORK AREA.
 3. MARK CLEARING LIMITS ON THE SITE TO KEEP EQUIPMENT OUT OF AREAS WITH STEEP SLOPES, CHANNELIZED FLOW, OR ADJACENT SURFACE WATERS.
 4. PRESERVE BUFFERS BETWEEN THE WORK AREA AND ANY DOWNSTREAM SURFACE WATERS AND WETLANDS.
 5. USE TEMPORARY MULCH AND RYE-SEED TO PROTECT DISTURBED SOILS OUTSIDE THE ACTIVE CONSTRUCTION AREA. SEE THE "MULCHING MEASURE AND RE-VEGETATION" MEASURES FOR DETAILS AND SPECIFICATIONS FOR THESE CONTROLS.
 6. PERMANENTLY SEED AREAS NOT TO BE PAVED WITHIN SEVEN DAYS OF COMPLETING FINAL GRADING. SEE "RE-VEGETATION" MEASURE FOR INFORMATION ON PROPER SEEDING.
 7. GRADE DEVELOPMENT TO DRAIN TO RAIN GARDEN. ENSURE AREAS UPHILL OF THE DEVELOPMENT ARE DIVERTED AWAY FROM THE RAIN GARDEN.

- MAINTENANCE**
- ALL MEASURES WILL BE INSPECTED WEEKLY AND BEFORE AND AFTER EVERY SIGNIFICANT STORM EVENT DURING CONSTRUCTION.
- EVERY MONTH THE FIRST YEAR AFTER CONSTRUCTION AND YEARLY THEREAFTER, INSPECT FOR AREAS SHOWING EROSION OR POOR VEGETATION GROWTH. FIX THESE PROBLEMS AS SOON AS POSSIBLE. EACH SPRING REMOVE ANY ACCUMULATION OF DEBRIS OR WINTER SAND THAT WOULD IMPEDE RUNOFF FROM ENTERING A RAIN GARDEN OR DITCH.
- NOTE:** PLEASE REFERENCE THE WRITTEN EROSION AND SEDIMENTATION CONTROL PLAN FOR ADDITIONAL GUIDANCE.

- 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 3" LAYER OF EROSION CONTROL MIX OR OTHER WOODWASTE MATERIAL APPROVED BY MANE DEP 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.



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: April 29, 2022

Review

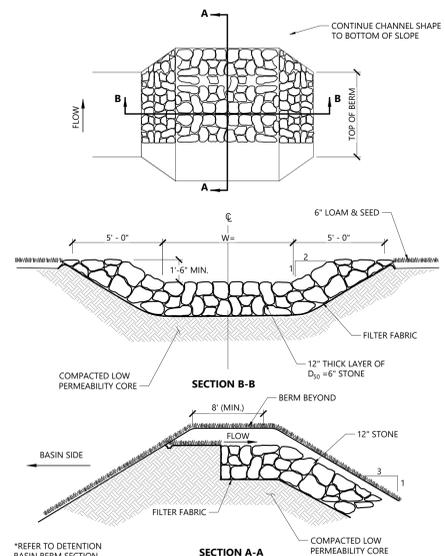
Not For Construction
Drawing Title

Erosion Prevention and Sediment Control Details

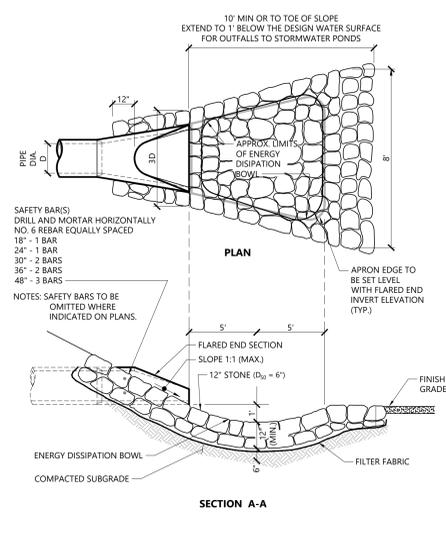
STATE OF MAINE
PETER B. SMIAAR
No. 16994
LICENSED PROFESSIONAL ENGINEER

C-1.05

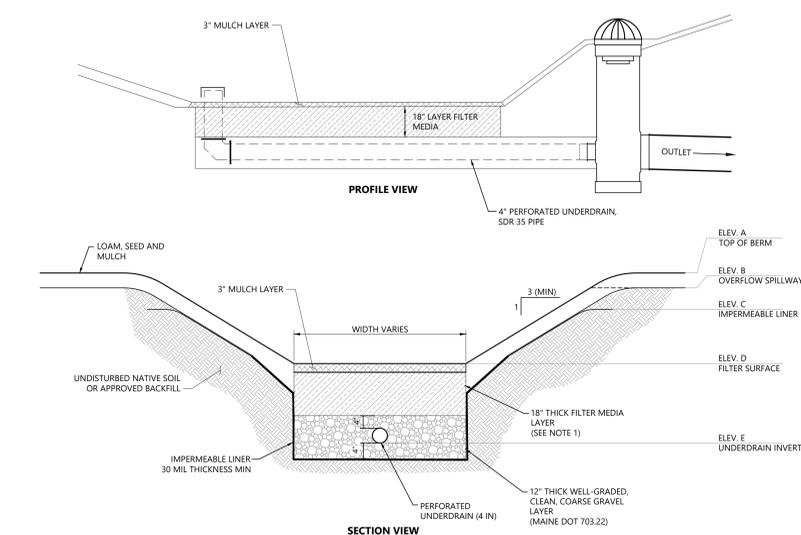
Sheet 61 of 63
Project Number 55310.01



Overflow Stone Spillway 1/16
N.T.S. Source: VHB LD_161



Flared End Section (FES) with Stone Protection 1/16
N.T.S. Source: VHB LD_134



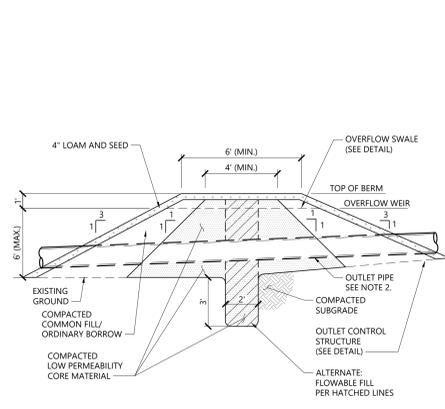
Vegetated Soil Filter (VSF) Detail 2/17
N.T.S. Source: VHB

- NOTES**
- VEGETATED SOIL FILTER REQUIREMENTS PER MAINE DEP CHAPTER 500 AND MAINE STORMWATER MANAGEMENT DESIGN MANUAL VOLUME III LATEST EDITIONS. MINIMUM REQUIREMENTS PER THE DEVELOPMENT
 - DRAIN TIME = 24-48 HOURS, ASSUMES 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:

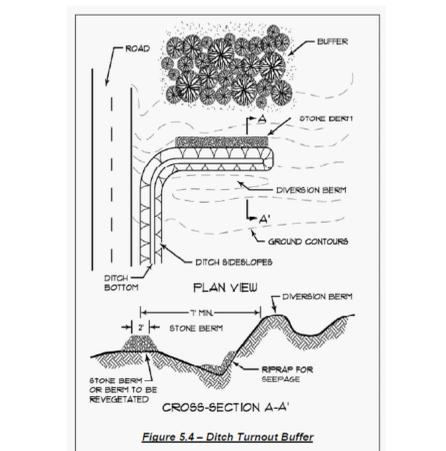
SIEVE (ASTM D422)	PERCENT PASSING BY WEIGHT
NO. 4	75-95
NO. 10	60-90
NO. 40	35-65
NO. 200	20-70
200 (CLAY SIZE)	< 2.0
 - 30% MATURE COMPOSTED WOODY FIBERS AND FINE SHREDDED BARK MULCH, SUPERHUMUS OR EQUIVALENT.
 - RESULTING MIXTURE SHALL HAVE 8% TO 12% PASSING THE NO. 200 SIEVE AND A CLAY CONTENT OF 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.
 - SURFACE AND SIDE SLOPES OF FILTER SHALL BE SEEDED 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.

VEGETATED SOIL FILTER ELEVATION TABLE

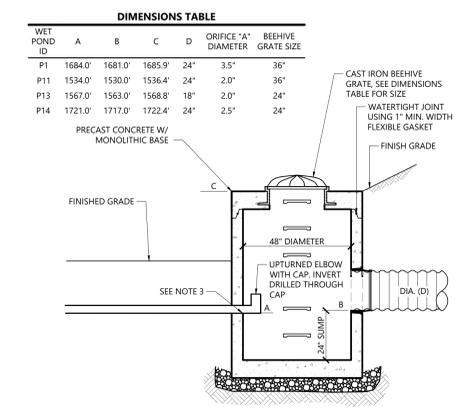
VSF #	A	B	C	D	E
P4	1808.00	1805.80	1805.80	1802.00	1799.33
P5	1838.00	1837.00	1837.00	1834.00	1831.33
P6	1828.00	1827.80	1827.80	1826.00	1823.33
P9	1950.00	1945.80	1945.80	1944.00	1941.33
P12	1474.00	1473.00	1473.00	1469.00	1466.33
P15	2090.00	2088.30	2088.30	2086.00	2083.33
P16	2125.00	2124.00	2124.00	2430.00	2119.33



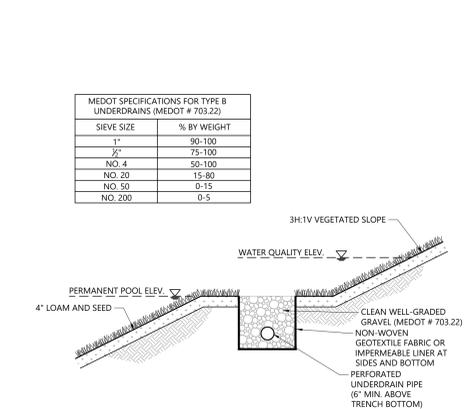
Detention Basin Berm Section 1/16
N.T.S. Source: VHB LD_160



Ditch Turnout Buffer 1/16
N.T.S. Source: MDEP



Wet Pond Outlet Control Structure 1/16
N.T.S. Source: VHB LD_171



Wet Pond Gravel Bench 1/16
N.T.S. Source: VHB

**Sugarloaf Mtn Corp
West Mountain
Expansion**
5092 Access Road
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

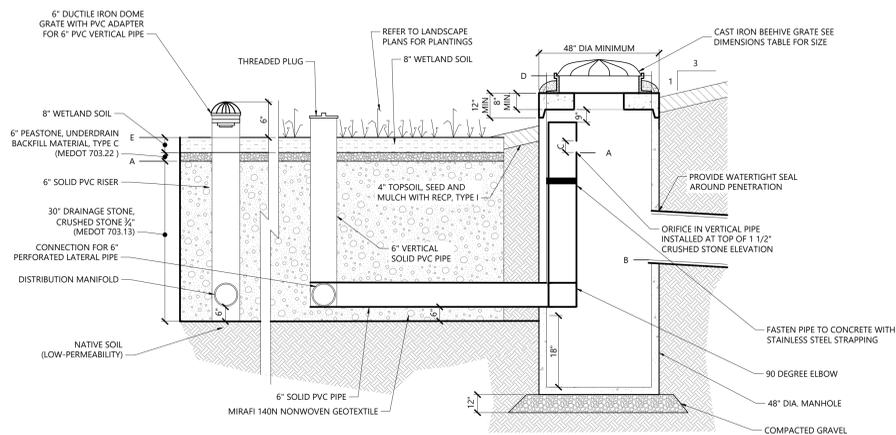
Designed by: RWN Checked by: PS
Issued for: Date: April 29, 2022
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Drawing Title: Stormwater Details

STATE OF MAINE
PETER B. SMAR
No. 16994
LICENSED PROFESSIONAL ENGINEER

C-1.06

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Project Number 55310.01



GW #	A	B	C	D	E	Beehive Grate Size
P2	1746.66	1746.00	1" Ø	1749.00	1747.00	24" Ø
P3	1750.66	1750.00	1" Ø	1754.60	1752.50	24" Ø
P7	1878.66	1878.00	1" Ø	1882.00	1879.00	24" Ø
P8	1932.66	1932.00	1" Ø	1935.50	1933.00	24" Ø
P10	1977.66	1977.00	1" Ø	1983.00	1978.00	30" Ø
P17	1874.66	1874.00	1" Ø	1877.70	1875.00	24" Ø

GRAVEL WETLAND TYPICAL

Gravel Wetland (Single Bay)

N.T.S.

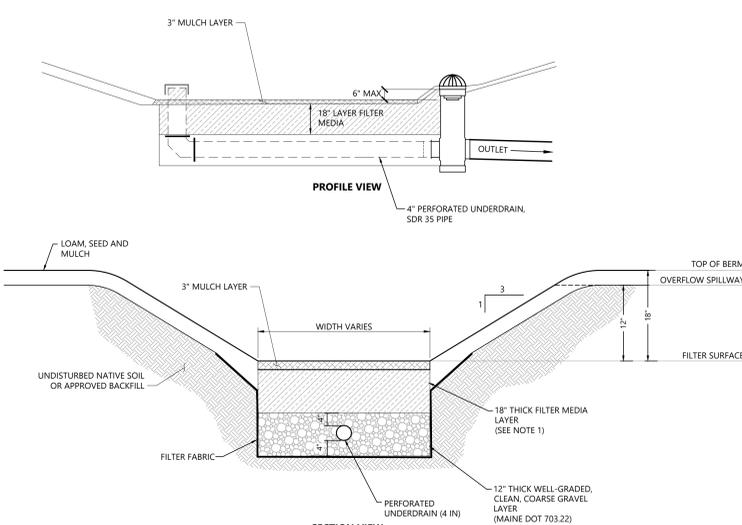
Source: VHB

10/21

LD_VT

RAIN GARDEN ELEVATION TABLE

Lot ID	Rain Garden ID	Max Impervious Surface (SF)	Max Landscape Area - Lawn (SF)	Max Total Drainage Area (SF)	Min. Filter Surface Area (SF)	Orifice Diameter (in.)	WQv (CF)
R1	RG 1	10,000	20,700	30,700	1,321	1	1,523
R2	RG 2	10,000	20,700	30,700	1,321	1	1,523
R3	RG 3	7,000	10,000	17,000	790	1	917
R4	RG 4	7,000	10,000	17,000	790	1	917
R6	RG 6	7,000	10,000	17,000	790	1	917
R7	RG 7	7,000	10,000	17,000	790	1	917
R8	RG 8	7,000	10,000	17,000	790	1	917
R9	RG 9	7,000	10,000	17,000	790	1	917
R10	RG 10	7,000	10,000	17,000	790	1	917
R11	RG 11	7,000	10,000	17,000	790	1	917
R12	RG 12	10,000	20,700	30,700	1,321	1	1,523
R13	RG 13	10,000	20,700	30,700	1,321	1	1,523
R14	RG 14	13,000	24,000	37,000	1,630	1	1,883
R15	RG 15	13,000	24,000	37,000	1,630	1	1,883
R16	RG 16	13,000	24,000	37,000	1,630	1	1,883
R17	RG 17A	15,250	28,300	43,550	1,917	1	2,214
R17	RG 17B	15,250	28,300	43,550	1,917	1	2,214
R18	RG 18	13,000	24,000	37,000	1,630	1	1,883
R19	RG 19	13,000	24,000	37,000	1,630	1	1,883
R20	RG 20	13,000	24,000	37,000	1,630	1	1,883
R21	RG 21	10,000	20,700	30,700	1,321	1	1,523
R22	RG 22	10,000	20,700	30,700	1,321	1	1,523
R23	RG 23	10,000	20,700	30,700	1,321	1	1,523
R24	RG 24	13,000	24,000	37,000	1,630	1	1,883
R25	RG 25	7,000	10,000	17,000	790	1	917
R26	RG 26	7,000	10,000	17,000	790	1	917
R27	RG 27	7,000	10,000	17,000	790	1	917
R28	RG 28	7,000	10,000	17,000	790	1	917
R29	RG 29	7,000	10,000	17,000	790	1	917
R30	RG 30	7,000	10,000	17,000	790	1	917
R31	RG 31	10,000	20,700	30,700	1,321	1	1,523
R32	RG 32	10,000	20,700	30,700	1,321	1	1,523
R33	RG 33	7,000	10,000	17,000	790	1	917
R34	RG 34	7,000	10,000	17,000	790	1	917
R35	RG 35	7,000	10,000	17,000	790	1	917
R36	RG 36	7,000	10,000	17,000	790	1	917
R37	RG 37	7,000	10,000	17,000	790	1	917
R38	RG 38	10,000	20,700	30,700	1,321	1	1,523
R39	RG 39	10,000	20,700	30,700	1,321	1	1,523
R40	RG 40	10,000	20,700	30,700	1,321	1	1,523
R41	RG 41	7,000	10,000	17,000	790	1	917
R42	RG 42	10,000	20,700	30,700	1,321	1	1,523
R43	RG 43	10,000	20,700	30,700	1,321	1	1,523
R44	RG 44	10,000	20,700	30,700	1,321	1	1,523
R45	RG 45	10,000	20,700	30,700	1,321	1	1,523
R46	RG 46	10,000	20,700	30,700	1,321	1	1,523
R47	RG 47	10,000	20,700	30,700	1,321	1	1,523
R48	RG 48	10,000	20,700	30,700	1,321	1	1,523
R49	RG 49	10,000	20,700	30,700	1,321	1	1,523
R50	RG 50	10,000	20,700	30,700	1,321	1	1,523
R51	RG 51	7,000	10,000	17,000	790	1	917
R52	RG 52	7,000	10,000	17,000	790	1	917



NOTES

- RAINGARDEN REQUIREMENTS PER MAINE DEP CHAPTER 500 AND MAINE STORMWATER MANAGEMENT DESIGN MANUAL VOLUME III, LATEST EDITIONS. MINIMUM REQUIREMENTS PER THE DEVELOPMENT:
 - DRAIN TIME = 24-48 HOURS. ASSUMES RATE OF 3 INCHES/HOUR.
- FILTER MEDIA SHALL CONSIST (BY VOLUME) OF:
 - 70-80% COARSE LOAMY SAND, MEETING THE FOLLOWING GRADATION:

SIEVE (ASTM D422)	PERCENT PASSING BY WEIGHT
NO. 10	85-100
NO. 20	70-100
NO. 60	15-40
NO. 200	8-10
 - 20-30% MULCH, MODERATELY FINE, SHREDDED BARK OR WOOD FIBER MULCH WITH LESS THAN 5% PASSING THE NO. 200 SIEVE.
 - RESULTING MIXTURE SHALL HAVE NO MORE THAN 10% PASSING THE NO. 200 SIEVE.
 - 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 DRAW DOWN TIME. ADJUSTED GRADATIONS AND DRAINAGE TIME SHALL BE SUBMITTED TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.
- SURFACE AND SIDE SLOPES OF FILTER SHALL BE SEEDED 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.
- MINIMUM FILTER BED SURFACE SHALL BE 7% OF THE CONTRIBUTING IMPERVIOUS AREA PLUS 3% OF THE CONTRIBUTING LANDSCAPING AREA.
- MAXIMUM CONTRIBUTING AREA TO ANY SINGLE RAINGARDEN = 1 ACRE.
- RUNOFF FROM OFFSITE DRAINAGE AREAS SHALL BE DIVERTED AROUND THE FILTER.
- AVOID COMPACTING UNDERDRAIN BEDDING AND SOIL FILTER MEDIA DURING CONSTRUCTION. OVER-COMPACTED SOILS WILL NOT ALLOW PROPER WATER MIGRATION THROUGH THE SOIL SECTION; FILTER BEDS ARE INTENDED TO DRAIN DRY WITHIN 24 HOURS.
- ALL DEVELOPED AREA ON THE LOT MUST DRAIN TO A RAIN GARDEN. PROVIDE ONE FILTER FOR THE LOT WITH THE TOTAL AREA NOTED, OR SPLIT THE AREA INTO MULTIPLE SMALLER GARDENS. SHAPES CAN VARY TO ACCOMMODATE NATIVE TERRAIN AND/OR LANDSCAPING.
- EACH HOMEOWNER OF A LOT THAT REQUIRES A RAIN GARDEN MUST CHOOSE BETWEEN A GRASSED GARDEN OR A PLANTED GARDEN. SEE NOTES TO RIGHT.
- CONSTRUCT FILTER SUCH THAT BERM IS NO MORE THAN 18" ABOVE THE MULCH SURFACE.
- UNDERDRAIN GRANULAR MATERIAL SHALL BE WELL GRADED, CLEAN, COARSE GRAVEL MEETING THE MEDOT SPECIFICATION 703.22 UNDERDRAIN TYPE B FOR UNDERDRAIN BACKFILL SIEVE (ASTM D422)

SIEVE (ASTM D422)	PERCENT PASSING BY WEIGHT
1"	90-100
2"	75-100
NO. 4	50-100
NO. 20	15-80
NO. 50	0-15
NO. 200	0-5
- UNDERDRAINS SHALL MAINTAIN A MINIMUM OF 1% FOR POSITIVE DRAINAGE.

Rain Garden (RG) Detail

N.T.S.

Source: VHB

2/17

**Sugarloaf Mtn Corp
West Mountain
Expansion**

5092 Access Road
Carrabasset Valley, ME 04947

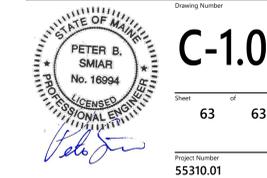
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Designed by: **RWN** Checked by: **PS**
Issued for: _____ Date: _____
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Sheet 63 of 63
Project Number 55310.01