

LUPC PERMIT PLAN SET

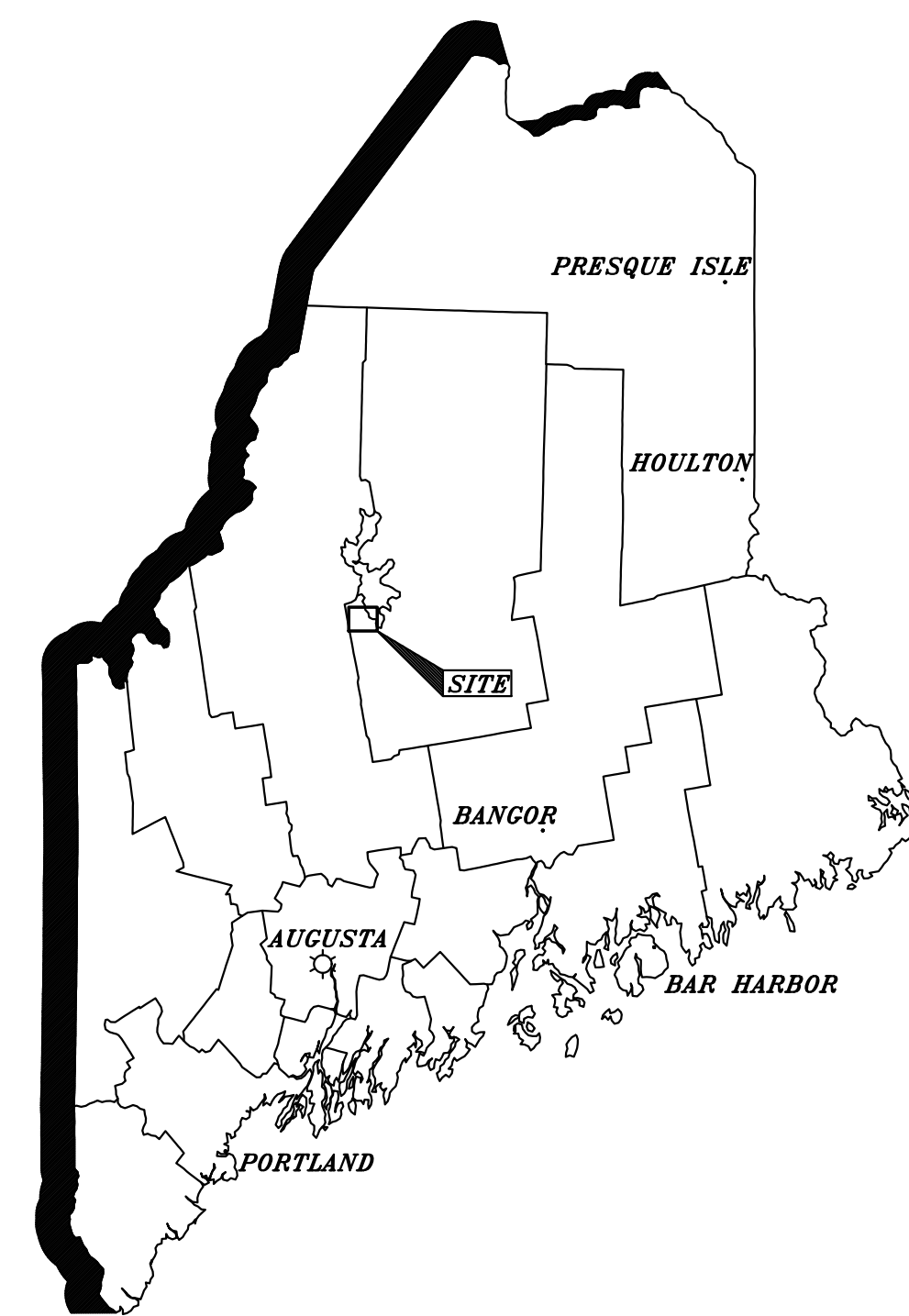
BIG MOOSE RESORT

BIG MOOSE TOWNSHIP, PISCATAQUIS COUNTY, MAINE

PREPARED FOR BIG LAKE DEVELOPMENT, LLC

85716E

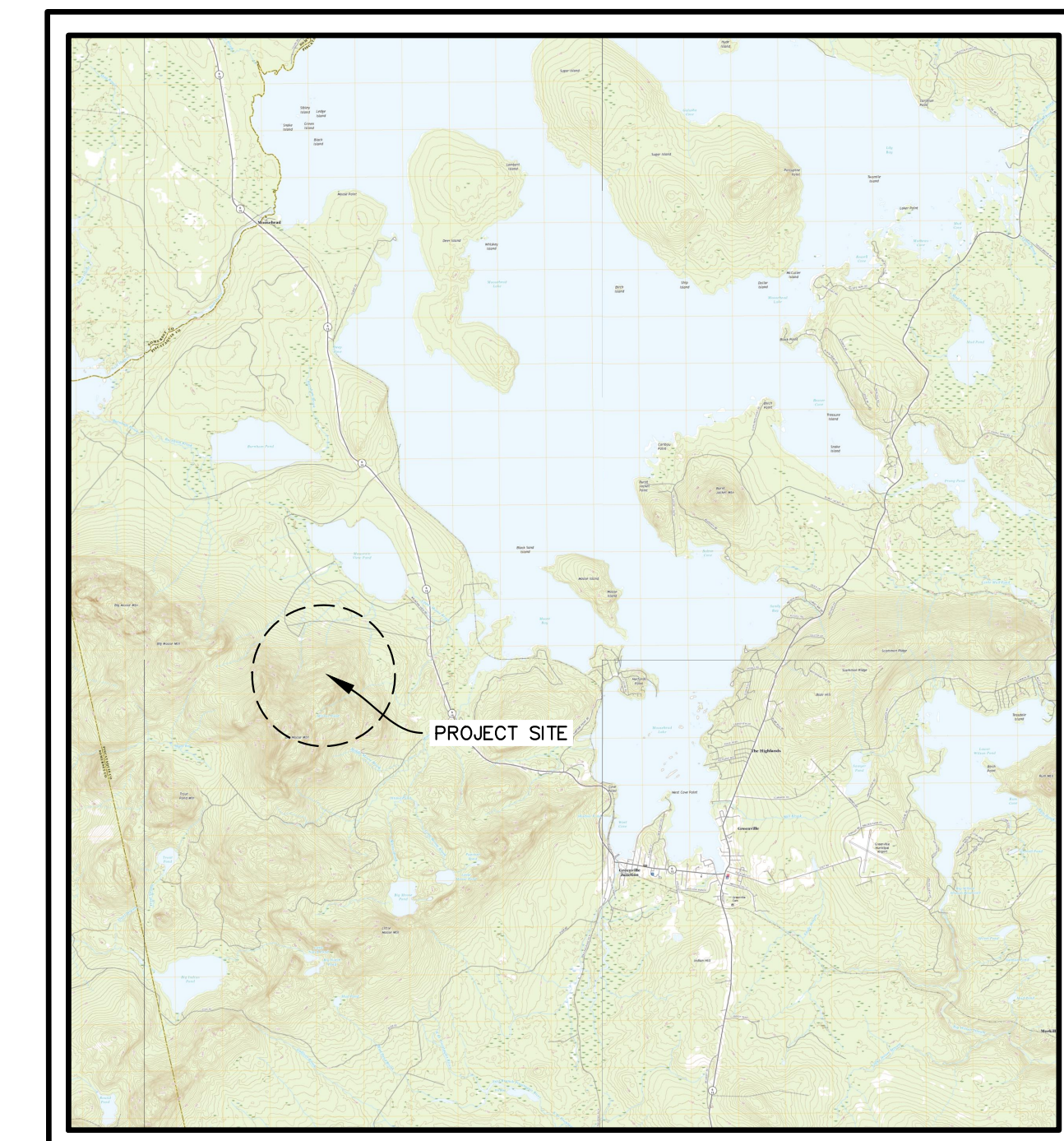
MARCH 22, 2021



LOCUS MAP

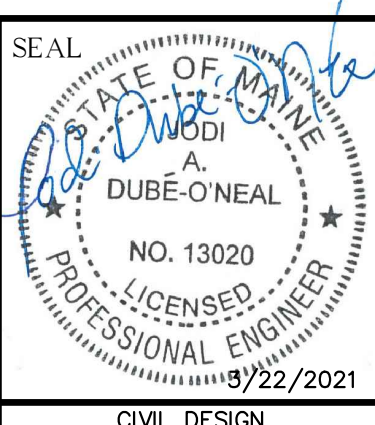
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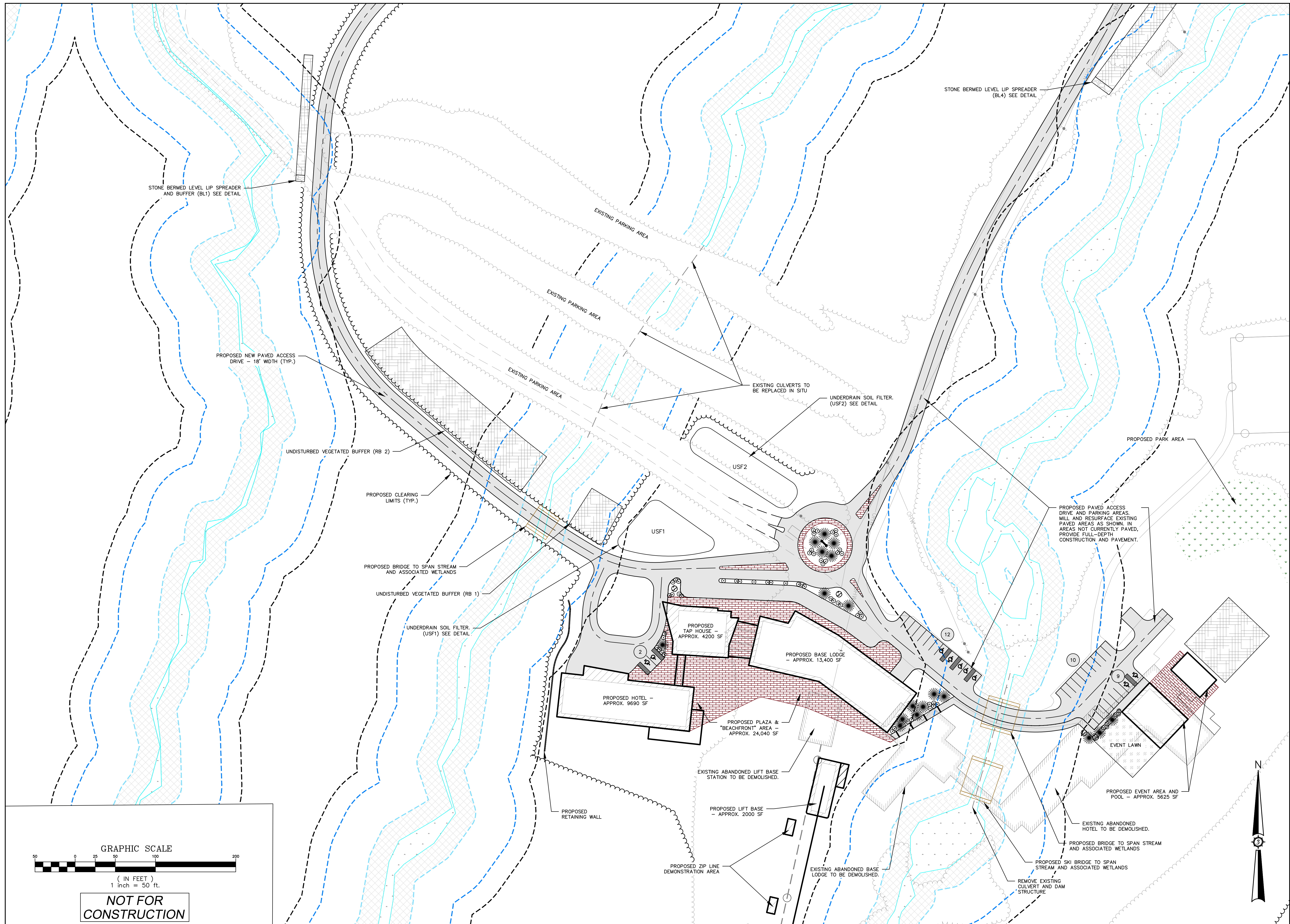


VICINITY MAP

DESIGN TEAM:



CIVIL DESIGN



Drawn By	FAB/JAO
Designed By	FAB/JAO
Date	03/22/2021
Scale	AS SHOWN
Checked	
Approved	

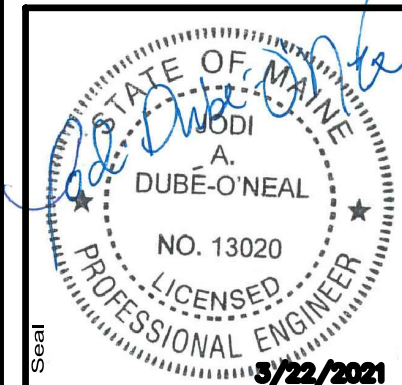
BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

Project Location:
BIG MOOSE TOWNSHIP, MAINE

Project No.:
85716E

Sheet No.:
C-1.02

Site Plan - Village



Project No.: 85716E

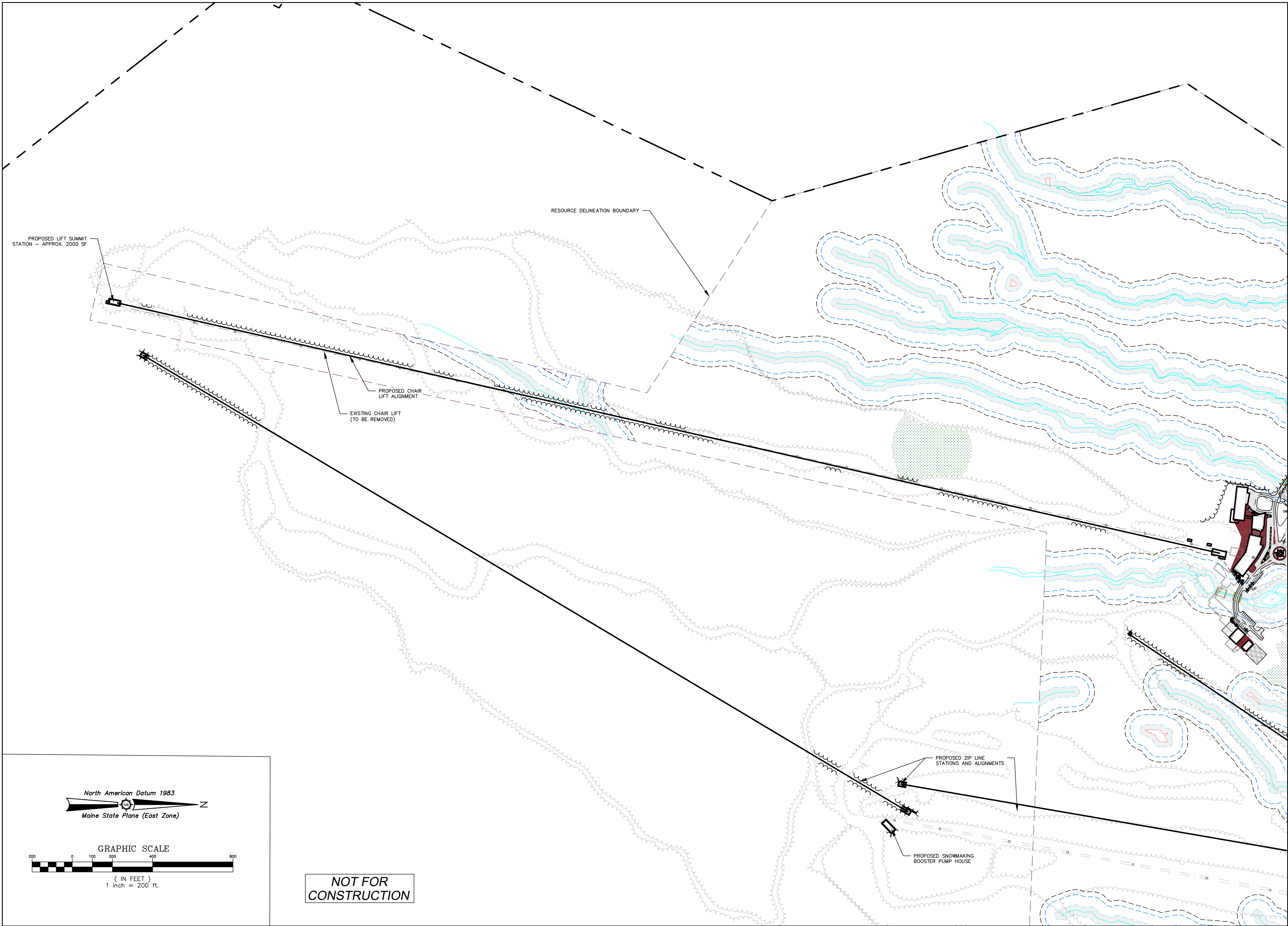
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Sheet No.: C-1.02

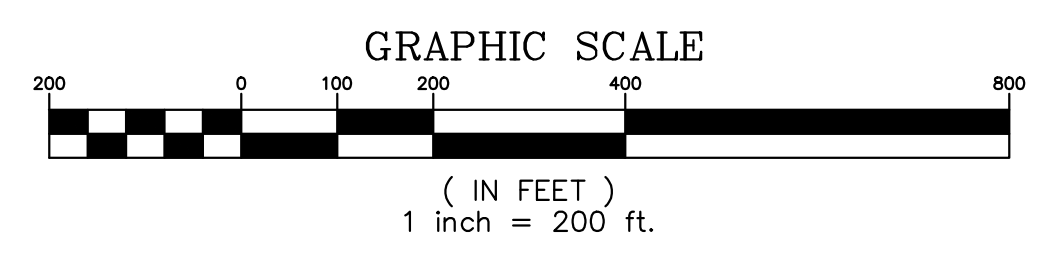
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North American Datum 1983
Maine State Plane (East Zone)

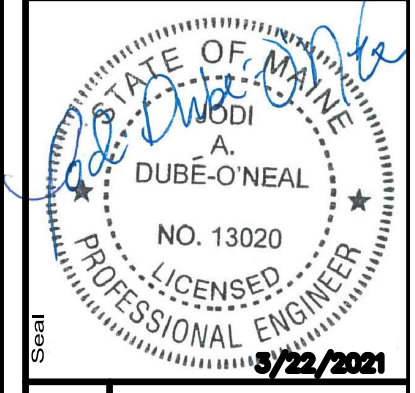


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CONSTRUCTION**

Rev. #	Date	By	Description

Drawn By FAB/JAO	Checked
Designed By FAB/JAO	Approved
Date 03/22/2021	
Scale AS SHOWN	

BIG LAKE DEVELOPMENT, LLC	SITE PLAN - CHAIRLIFT
BIG MOOSE RESORT	
Project Location BIG MOOSE TOWNSHIP, MAINE	



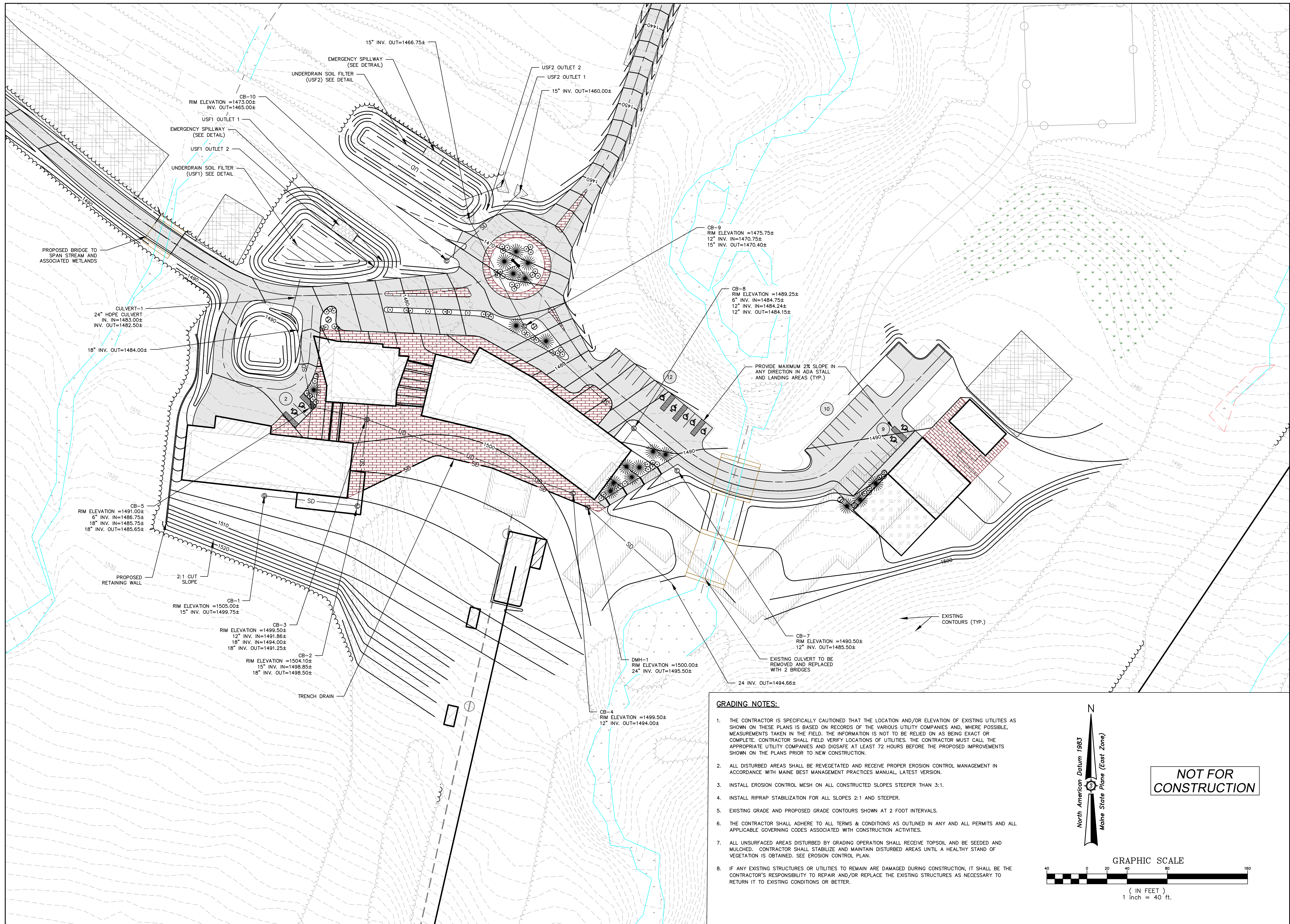
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Sheet No. C-1.03



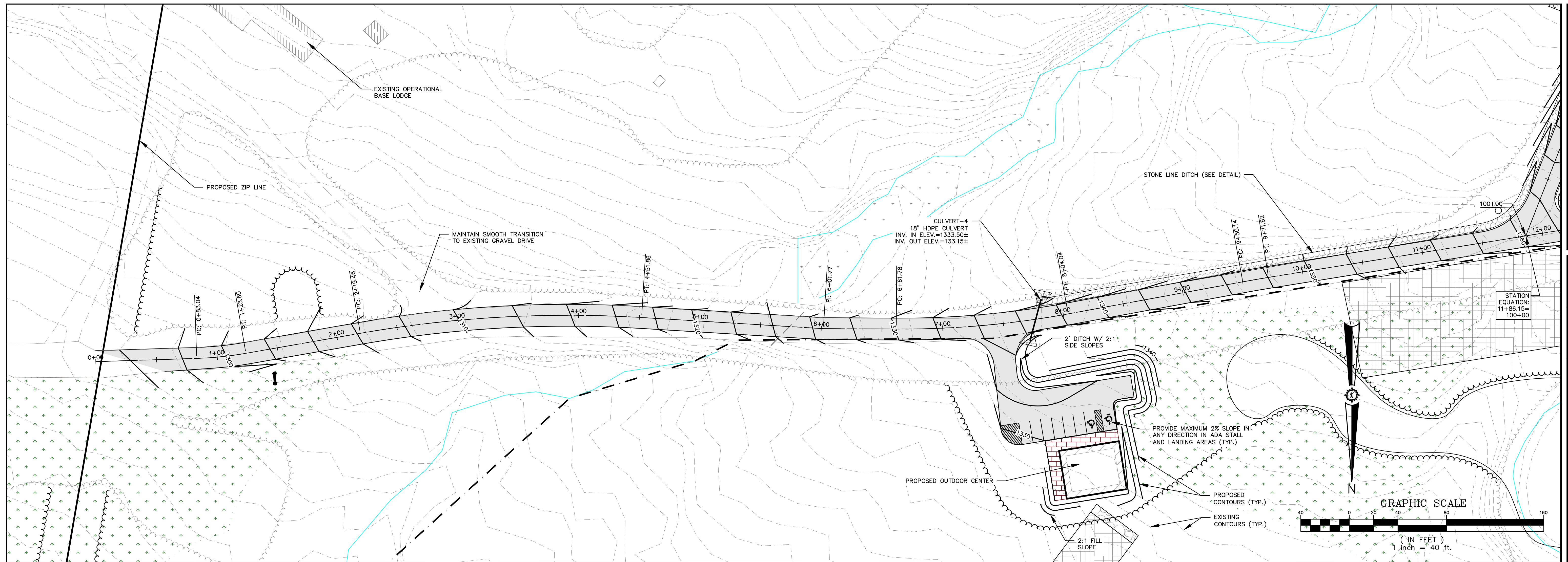
GRADING NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF UTILITIES. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AND DIGSAFE AT LEAST 72 HOURS BEFORE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS PRIOR TO NEW CONSTRUCTION.
2. ALL DISTURBED AREAS SHALL BE REVEGETATED AND RECEIVE PROPER EROSION CONTROL MANAGEMENT IN ACCORDANCE WITH MAINE BEST MANAGEMENT PRACTICES MANUAL, LATEST VERSION.
3. INSTALL EROSION CONTROL MESH ON ALL CONSTRUCTED SLOPES STEEPER THAN 3:1.
4. INSTALL RIPRAP STABILIZATION FOR ALL SLOPES 2:1 AND STEEPER.
5. EXISTING GRADE AND PROPOSED GRADE CONTOURS SHOWN AT 2 FOOT INTERVALS.
6. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN ANY AND ALL PERMITS AND ALL APPLICABLE GOVERNING CODES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
7. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE TOPSOIL AND BE SEEDED AND MULCHED. CONTRACTOR SHALL STABILIZE AND MAINTAIN DISTURBED AREAS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED. SEE EROSION CONTROL PLAN.
8. IF ANY EXISTING STRUCTURES OR UTILITIES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURES AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

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 GRAPHIC SCALE
 (IN FEET)
 1 inch = 40 ft.

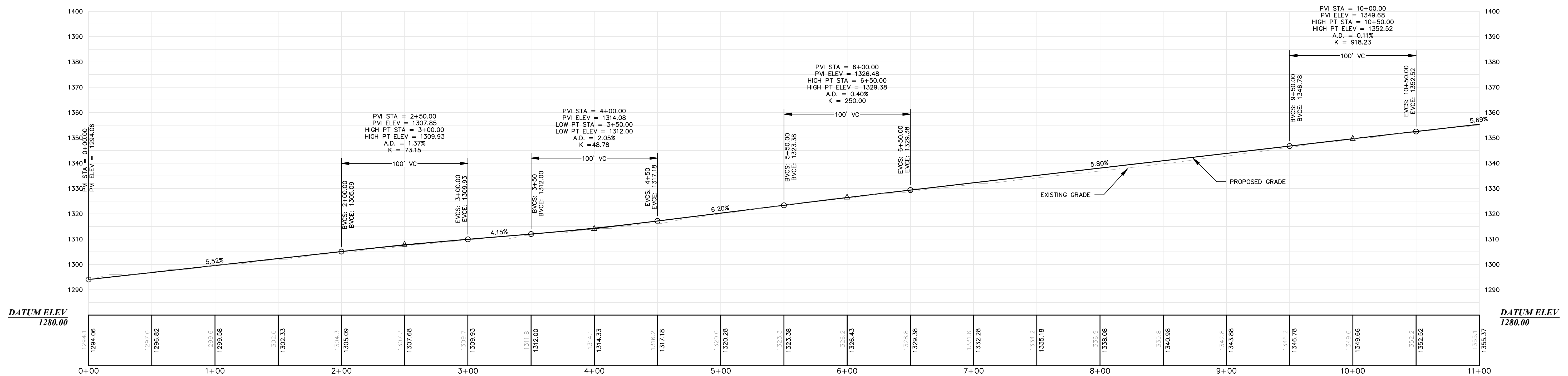
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HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=20'

MOOSEHEAD LOOP DRIVE
 0+00.00 - 11+00.00

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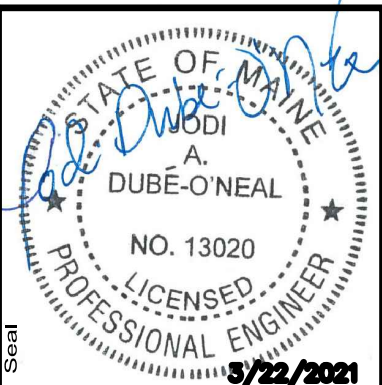
Rev. #	Date	By	Description

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Drawn	03/22/2021
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BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

Project Location
 BIG MOOSE TOWNSHIP, MAINE

Planning Description
PLAN AND PROFILE - MAIN LOOP DRIVE
 STA. 0+00 TO STA. 11+00



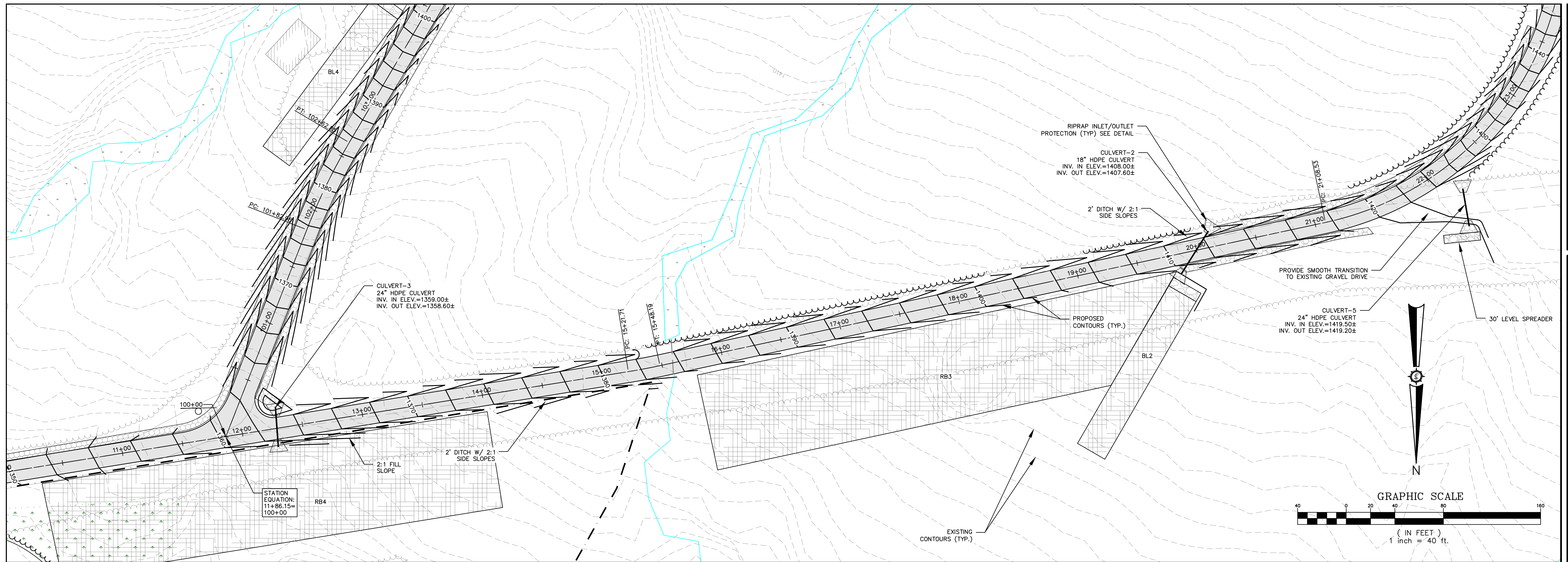
Project No: **85716E**

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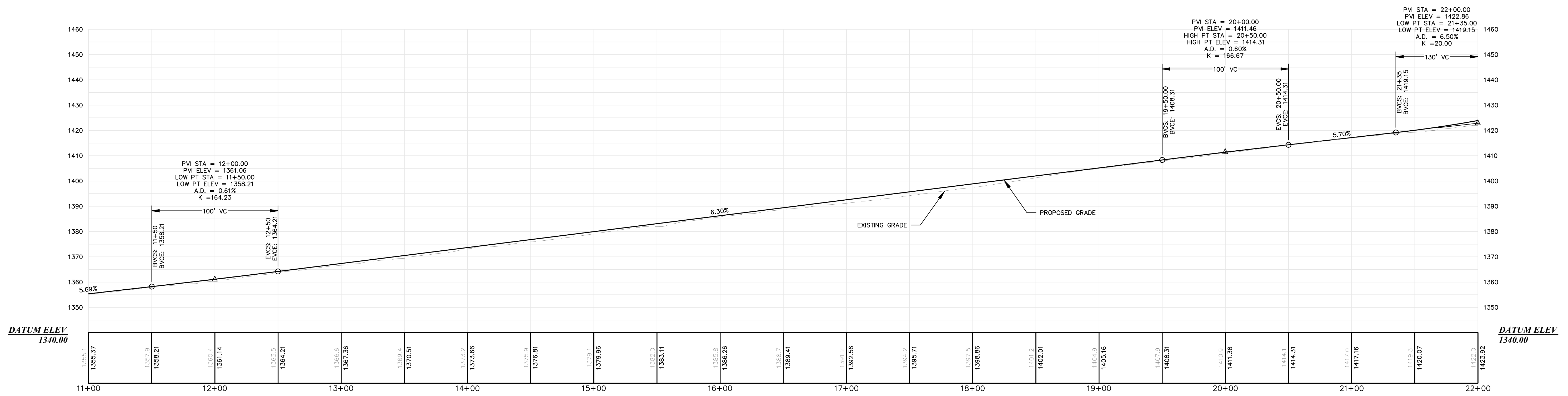
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Sheet No.
C-2.02



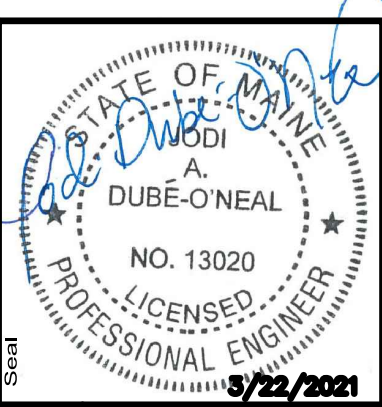
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MOOSEHEAD LOOP DRIVE
 11+00.00 - 22+00.00

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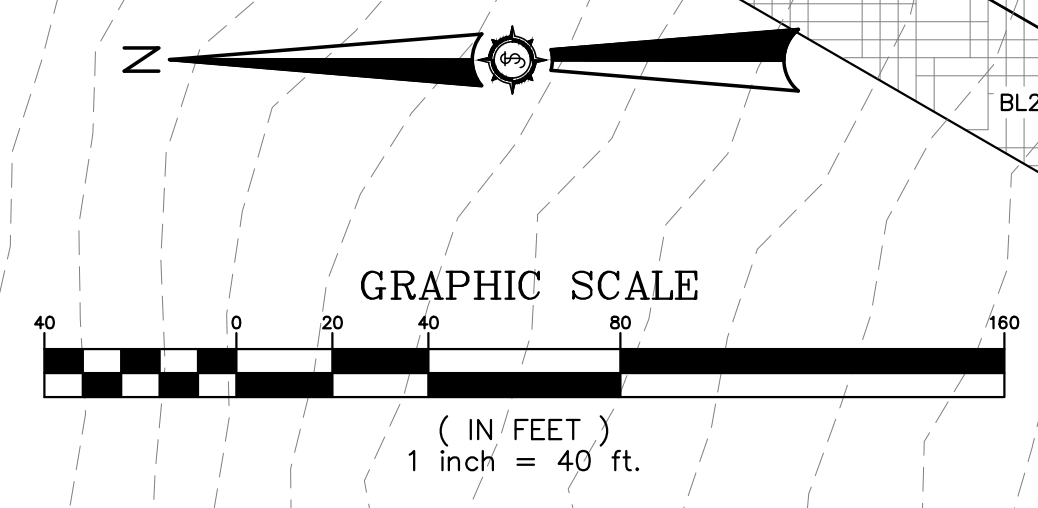
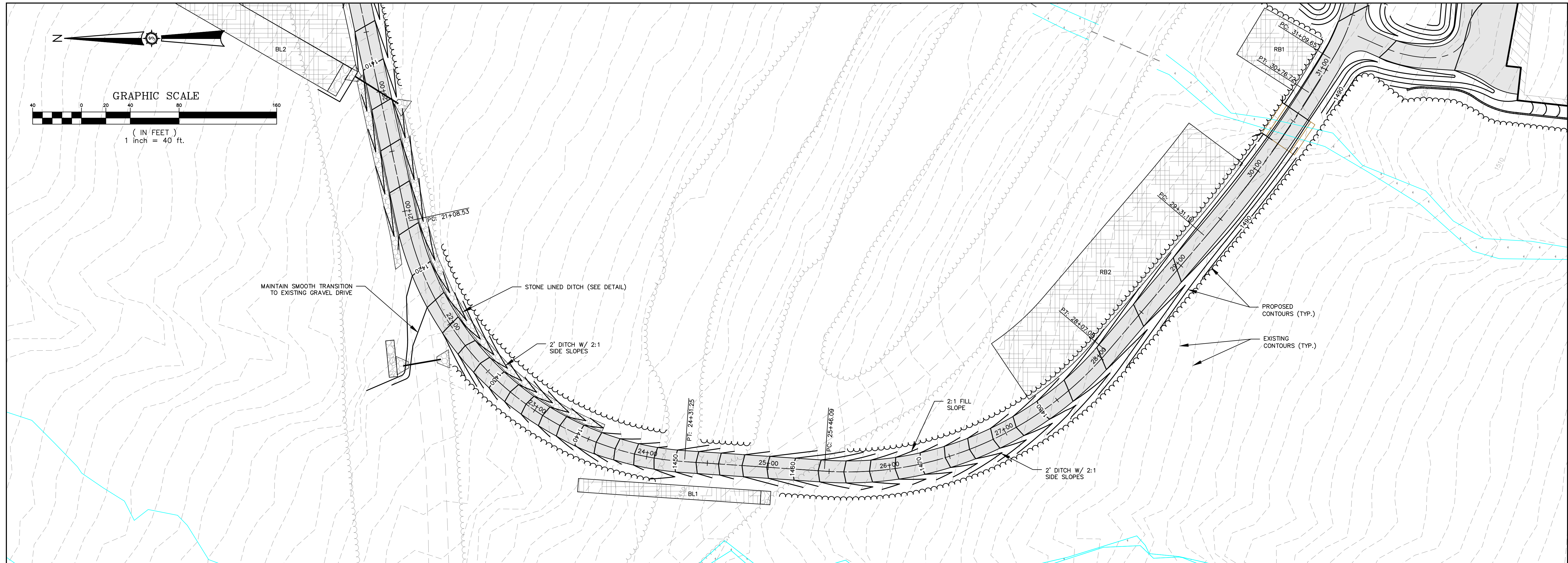
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Checked By	FAB/JAO
Scale	AS SHOWN
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Name	BIG MOOSE RESORT
Project No.	85716E
Sheet No.	C-2.03

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT
 BIG MOOSE TOWNSHIP, MAINE
PLAN AND PROFILE - MAIN LOOP DRIVE
 STA. 11+00 TO STA. 22+00



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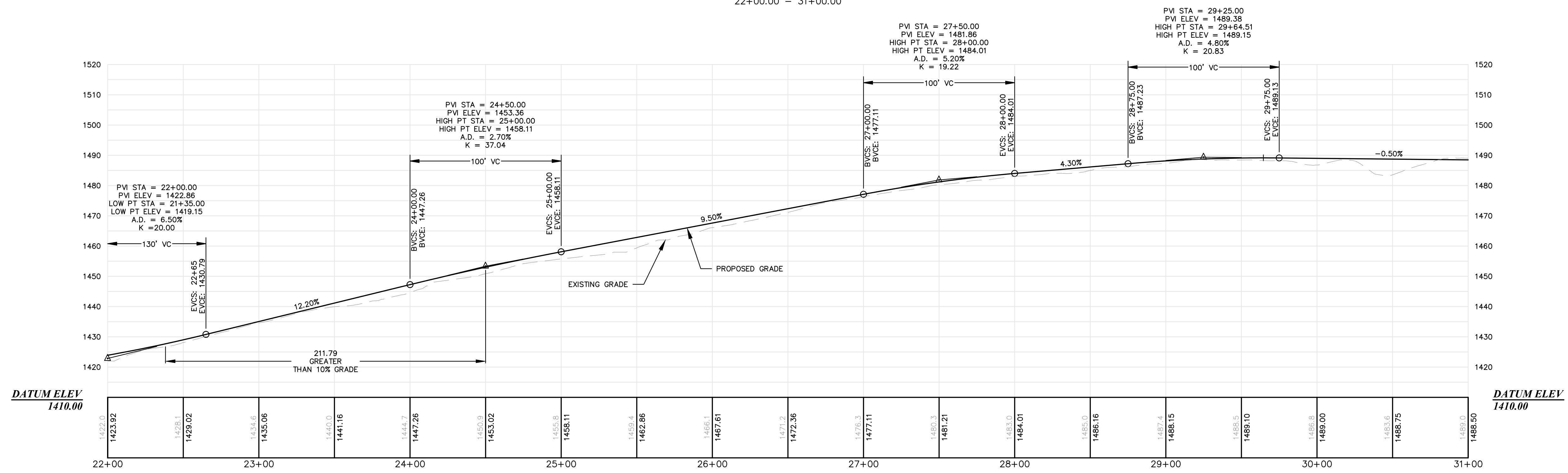
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 Sheet No.
C-2.03



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VERTICAL SCALE: 1"=20'

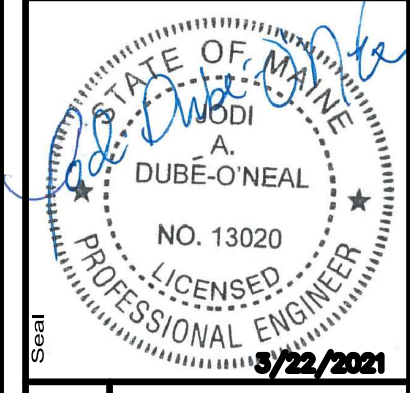
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MOOSEHEAD LOOP DRIVE
22+00.00 - 31+00.00



Rev.	Date	By	Description

Designed By FAB/JAO	Drawn By FAB/JAO
Date 03/22/2021	Scale AS SHOWN
Project Location BIG MOOSE TOWNSHIP, MAINE	Checked
BIG LAKE DEVELOPMENT, LLC BIG MOOSE RESORT PROJECT LOCATION BIG MOOSE TOWNSHIP, MAINE PLAN AND PROFILE - MAIN LOOP DRIVE STA. 22+00 TO 31+00	

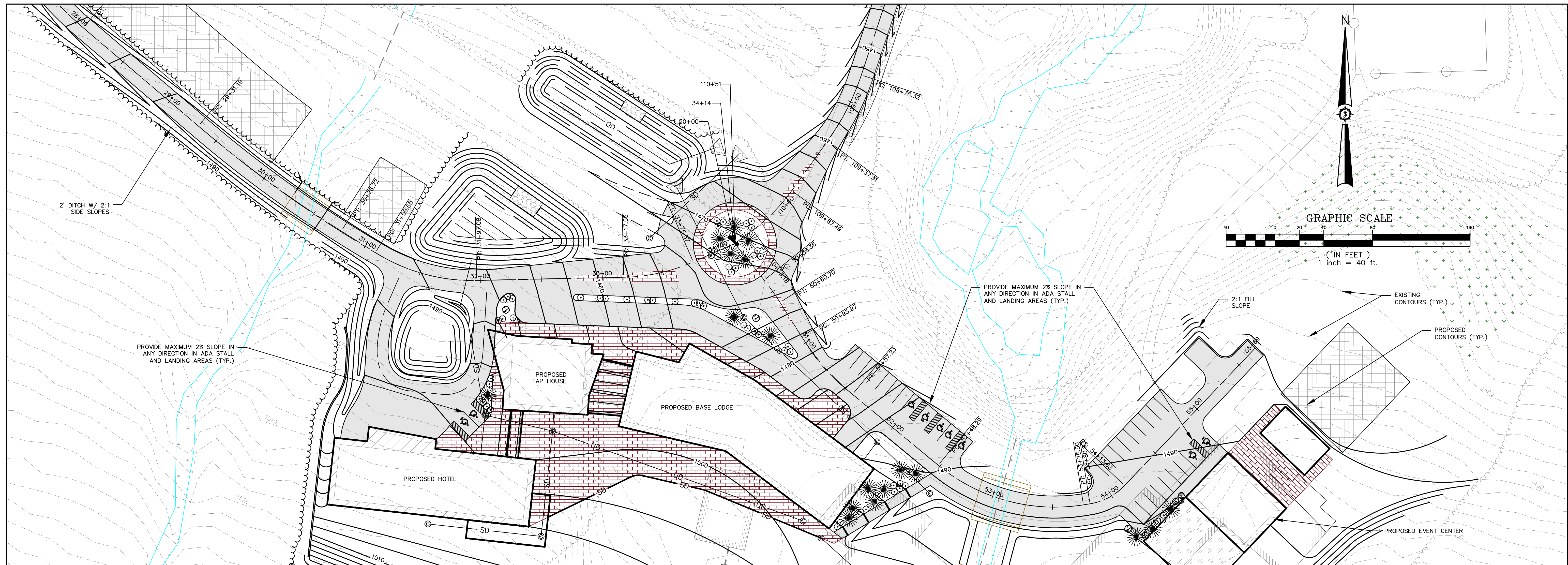


Project No.: 85716E

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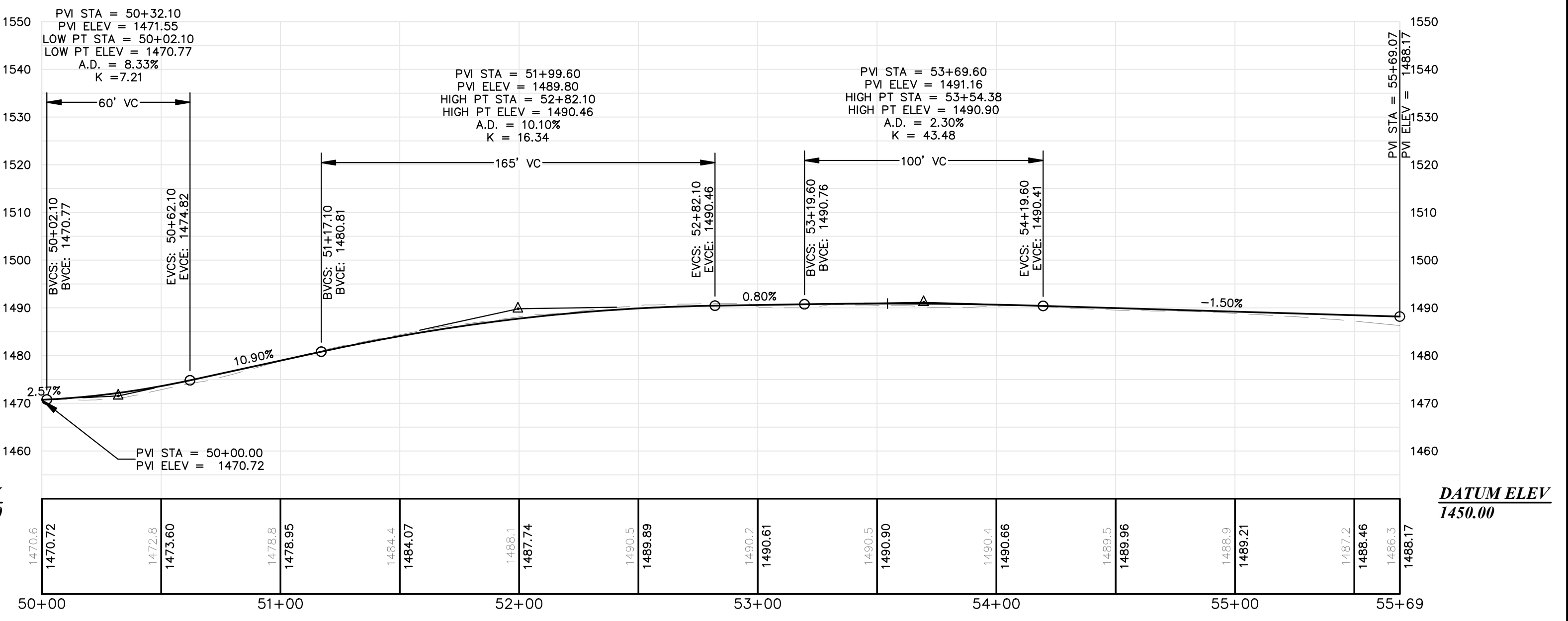
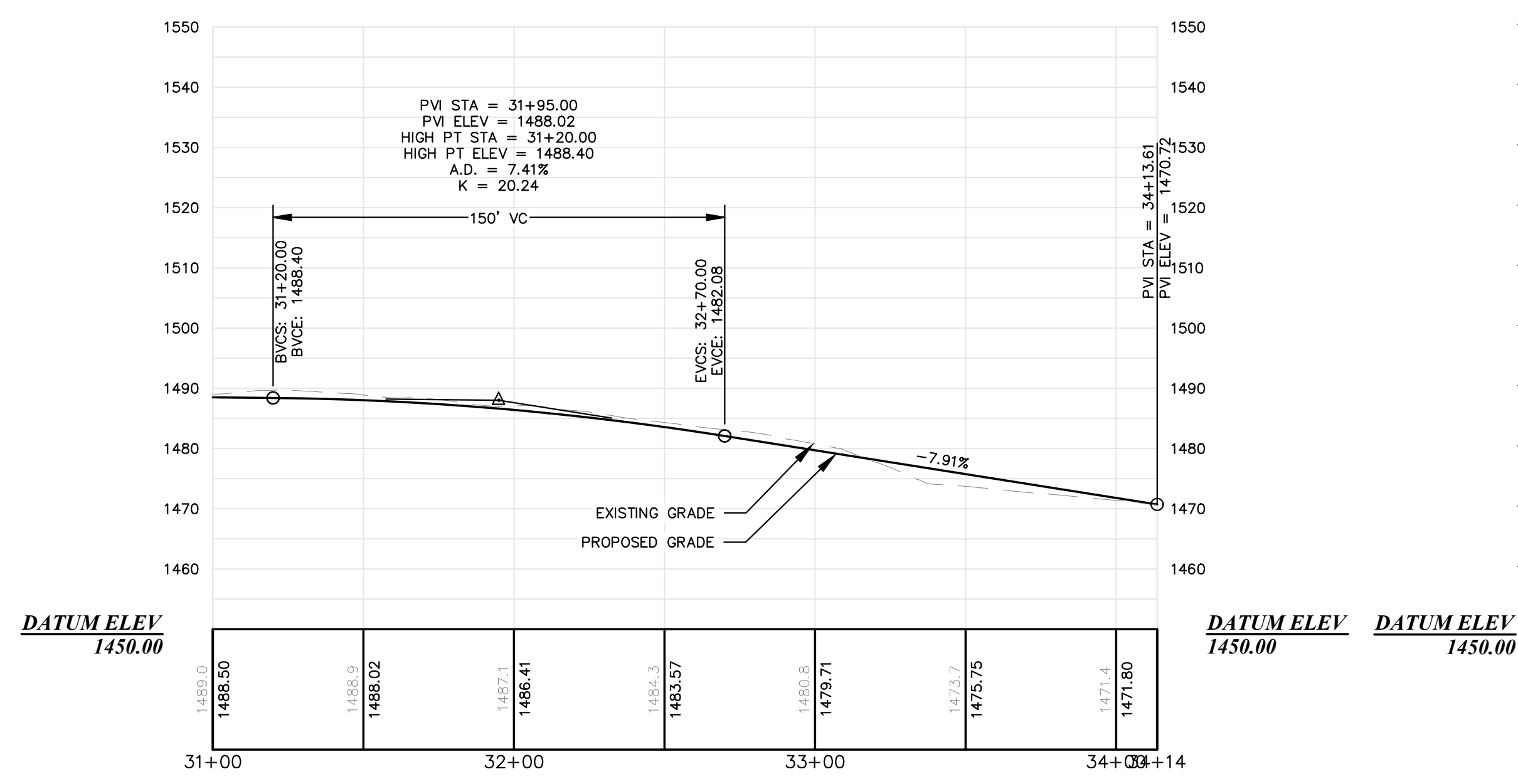


MOOSEHEAD LOOP DRIVE
31+00.00 - 34+13.61

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=20'

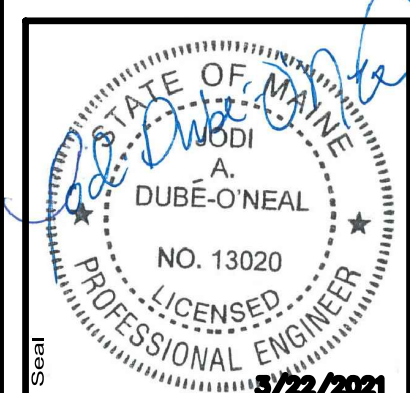
MOOSEHEAD LOOP DRIVE II
50+00.00 - 55+69.07

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Drawn By	FAB/JAO
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Scale	AS SHOWN
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Name	BIG MOOSE RESORT
Client	BIG MOOSE DEVELOPMENT, LLC
Drawn By	FAB/JAO
Checked	
Scale	AS SHOWN
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Name	BIG MOOSE RESORT
Client	BIG MOOSE DEVELOPMENT, LLC

Project No.	85716E
Engineer	SEWALL ENGINEERING
Project Name	BIG MOOSE RESORT
Client	BIG MOOSE DEVELOPMENT, LLC
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Description	PLAN AND PROFILE - MAIN LOOP DRIVE
Scale	AS SHOWN
Drawn By	FAB/JAO
Checked	
Scale	AS SHOWN
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Name	BIG MOOSE RESORT
Client	BIG MOOSE DEVELOPMENT, LLC



85716E

ENGINEERING

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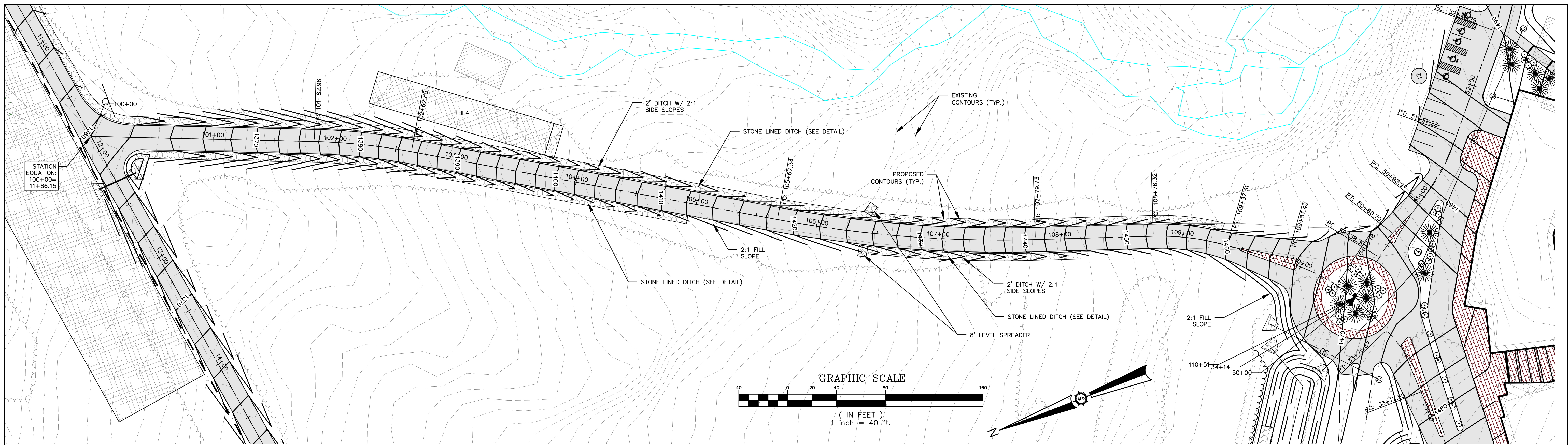
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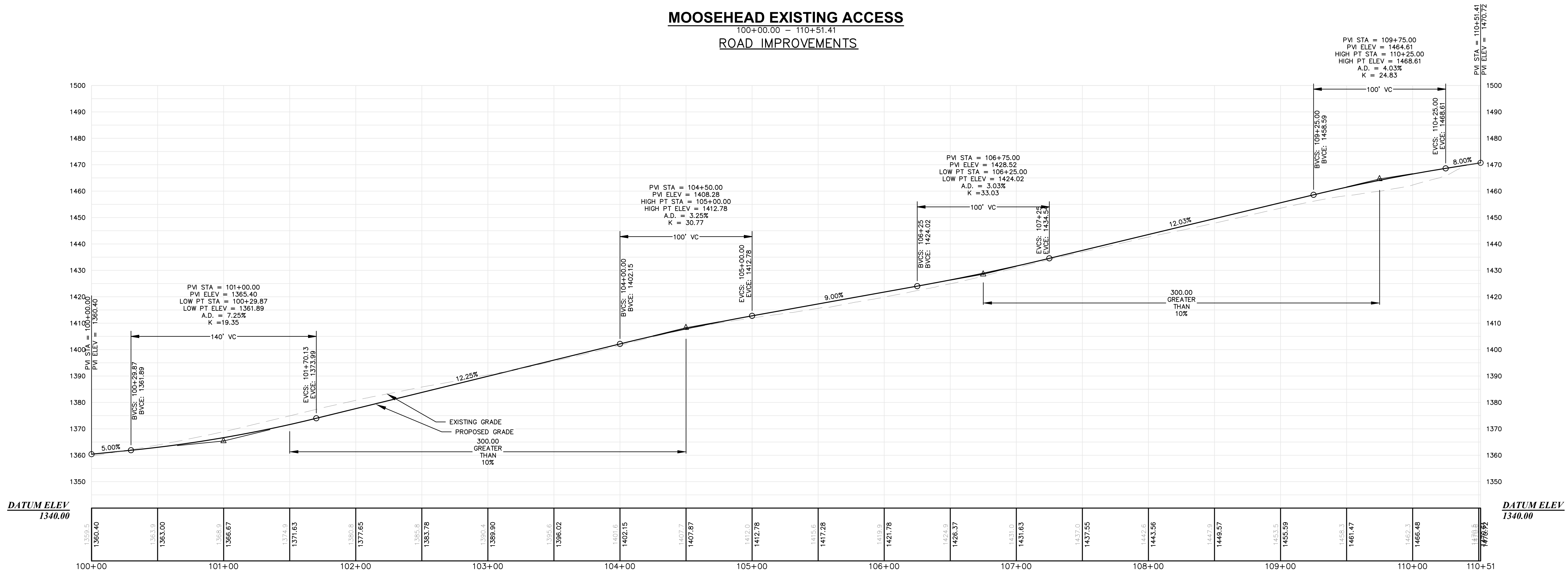
C-2.05



HORIZONTAL SCALE: 1"=40'
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MOOSEHEAD EXISTING ACCESS
 100+00.00 - 110+51.41
 ROAD IMPROVEMENTS

NOT FOR CONSTRUCTION



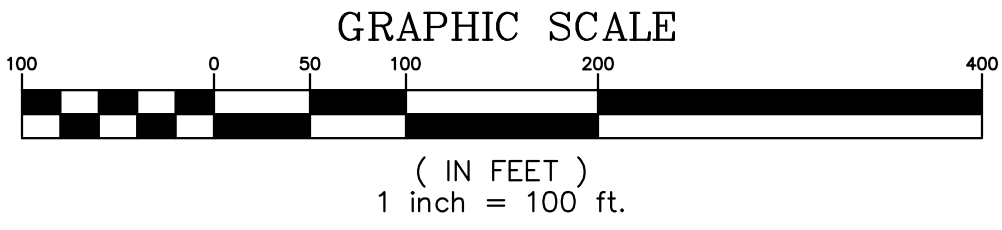
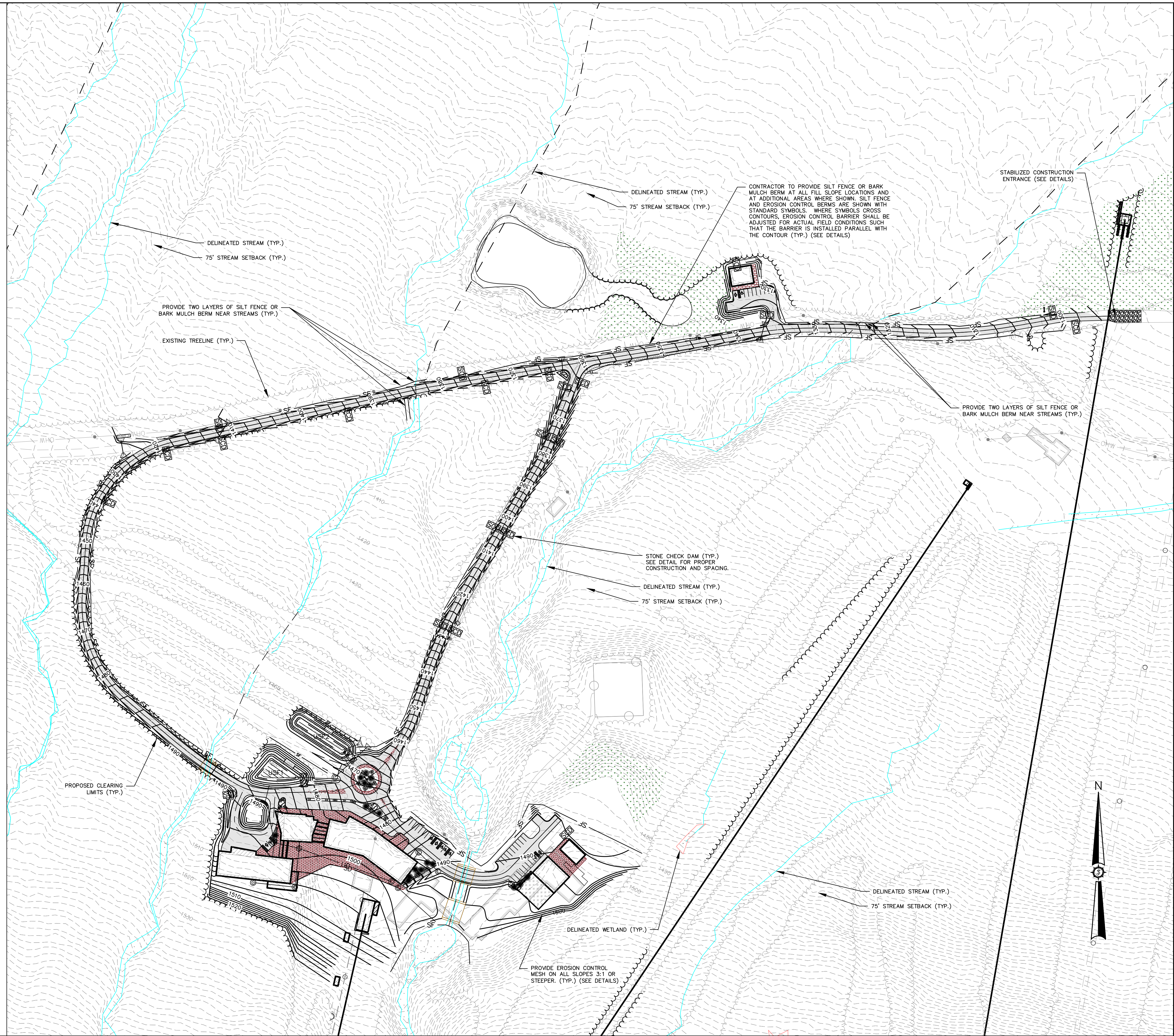
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Date: 03/22/2021	Scale: AS SHOWN
Project Location: BIG MOOSE TOWNSHIP, MAINE	Approved: [Signature]
Project No.: 85716E	Sheet No.: C-2.06
Client: BIG LAKE DEVELOPMENT, LLC BIG MOOSE RESORT	Project Name: EXISTING ACCESS ROAD IMPROVEMENTS STA. 100+00 TO STA. 110+51.41
Professional Engineer: [Signature] DUBE-O'NEAL NO. 13020 LICENSED PROFESSIONAL ENGINEER 7/22/2021	Company: Sewall Engineering The evolution of expertise www.sewall.com 1 800 648 4202

EROSION CONTROL NOTES:

- A. THE EROSION AND SEDIMENTATION CONTROL PLAN IS COMPRISED OF THIS DRAWING, THE STANDARD DETAILS, THE PLAN NARRATIVE, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORMWATER MANAGEMENT SHALL OBTAIN A COPY OF EROSION AND SEDIMENTATION CONTROL PLAN AND BECOME FAMILIAR WITH ITS CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE MDEP EROSION CONTROL & SEDIMENT BMP MANUAL. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL AND STATE REQUIREMENTS OR MANUAL OF PRACTICES, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, ENGINEER OR OWNER.
- E. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE RETAINED AND PROPERLY TREATED OR DISPOSED. CLEANING, MAINTENANCE, AND REPAIR AREAS SHALL BE PROTECTED BY A TEMPORARY PERIMETER BERM, SHALL NOT OCCUR WITHIN 150 FEET OF ANY WATERWAY, WATER BODY OR WETLAND, AND IN AREAS LOCATED AS FAR AS PRACTICAL FROM STORM SEWER INLETS. USE OF DETERGENTS FOR LARGE SCALE WASHING IS PROHIBITED.
- F. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOATATION BOOMS SHALL BE MAINTAINED ON SITE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- G. FUGITIVE DUST EMISSIONS ARE PROHIBITED. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- H. RUBBISH, TRASH, GARBAGE, LITTER OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL NOT BE TRANSPORTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- I. ALL STORMWATER PREVENTION MEASURES PRESENTED ON THIS PLAN AND IN THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
- J. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED SHALL BE SEEDED AND MULCHED NO LATER THAN 24 HOURS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS OR PRIOR TO ANY STORM EVENT. APPLICATION RATES AND MATERIALS USED SHALL BE THE SAME AS FOR PERMANENT SEEDING EXCEPT SEED MIXTURE SHALL BE ANNUAL RYEGRASS. MULCHING WILL BE 2 BALES PER 1000 SF TO COVER 75%-90% OF GROUND SURFACE.
- K. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SEEDED WITH PERMANENT OR DORMANT SEEDING ACCORDING TO MAINE BMP'S. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO DETAILS FOR SEEDING NOTES.
- L. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE IS NOT SUFFICIENT FOR REMOVAL OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. USE ONLY INGRESS/EGRESS LOCATION PROVIDED.
- M. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- N. CONTRACTOR OR SUBCONTRACTOR WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE STORMWATER STRUCTURES AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEM IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- O. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP BY THE CONTRACTOR.
- P. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- Q. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, BARK MULCH BERMS, SEDIMENT BASINS, HAY BALES, STONE CHECK DAMS, ETC.) TO PREVENT EROSION.
- R. ALL CONSTRUCTION AREAS SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
- S. CONTRACTOR SHALL PUMP STANDING WATER TO SEEDED AREAS TO HELP IRRIGATE NEW GRASS GROWTH AND TO MAXIMIZE VOLUME CAPACITY OF SEDIMENT BASINS PRIOR TO STORM EVENTS.
- T. EROSION CONTROL MEASURES MUST BE ADJUSTED AS NECESSARY TO ENSURE ZERO DISCHARGE OF TURBID WATER.
- U. ADD TEMPORARY DITCH STABILIZATION AS NECESSARY TO PREVENT EROSION.
- V. EROSION CONTROL MESH IS REQUIRED ON ALL CONSTRUCTED SLOPES STEEPER THAN 3 TO 1.
- W. CONSTRUCTION AREAS, TRAILERS, PORTA-POTTIES, AND LAYDOWN AREAS MUST BE FENCED OFF WITH TEMPORARY CONSTRUCTION FENCING TO KEEP PEOPLE FROM ENTERING THE WORK ZONE.

MAINTENANCE:

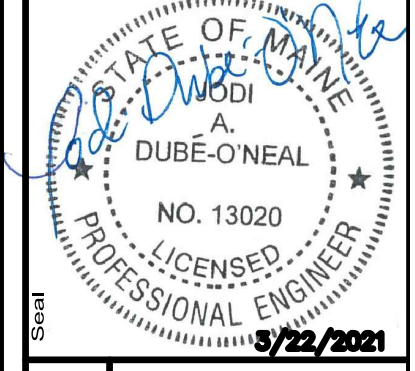
1. ALL MEASURES STATED ON THIS EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MAINTAINED IN FULL FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETE PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
 - a. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. ERODED AREAS SHOULD BE FILLED, RESEEDED, AND WATERED AS NEEDED.
 - b. SILT FENCES AND EROSION CONTROL BERMS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
 - c. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
 - d. A MAINTENANCE LOG WILL BE UPDATED FOLLOWING EACH INSPECTION AND KEPT ON FILE. THIS SHALL INCLUDE DATE, INSPECTOR NAME, PROBLEMS FOUND AND ACTION TAKEN.



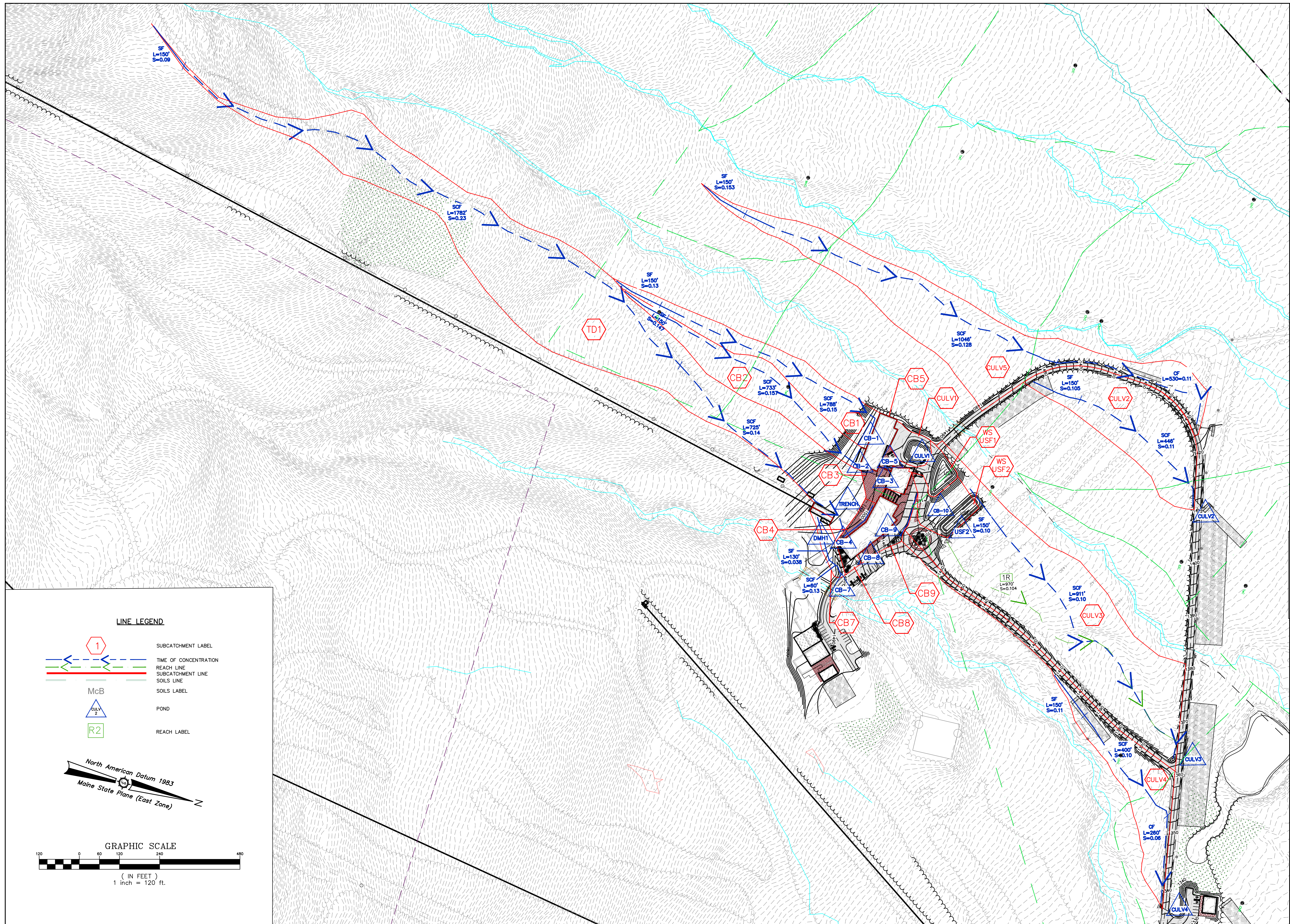
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Sheet No.	C-3.01
Project No.	85716E
Phase	PERMIT
Drawn By	FAB/JAO
Checked By	AS SHOWN
Date	03/22/2021
Scale	AS SHOWN
Approved	[Signature]
Drawn By	FAB/JAO
Checked By	AS SHOWN
Date	03/22/2021
Scale	AS SHOWN
Approved	[Signature]









BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT
 Project Location: **BIG MOOSE TOWNSHIP, MAINE**
 EROSION AND SEDIMENTATION CONTROL PLAN

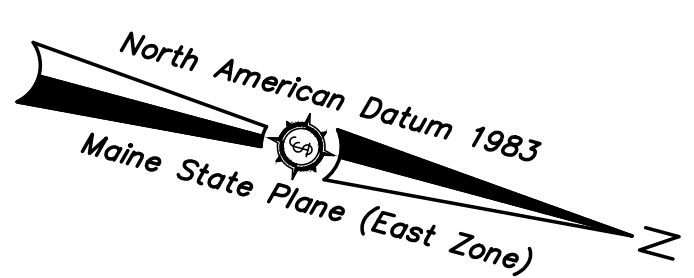


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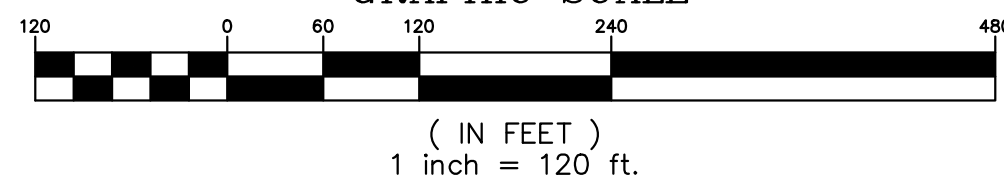


LINE LEGEND

-  SUBCATCHMENT LABEL
-  TIME OF CONCENTRATION
-  REACH LINE
-  SUBCATCHMENT LINE
-  SOILS LINE
-  SOILS LABEL
-  POND
-  REACH LABEL



GRAPHIC SCALE



Drawn By	Checked By
FAB/JAO	FAB/JAO
DATE	DATE
03/22/2021	03/22/2021
Scale	Scale
AS SHOWN	AS SHOWN
Approved	Checked

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

Project Location
 BIG MOOSE TOWNSHIP, MAINE

Project No.
 85716E

Drawn By
 FAB/JAO

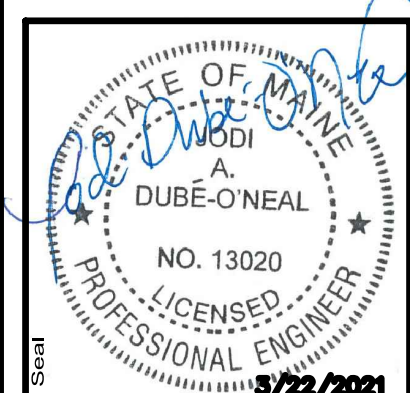
Checked By
 FAB/JAO

Date
 03/22/2021

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 [Signature]

Checked
 [Signature]



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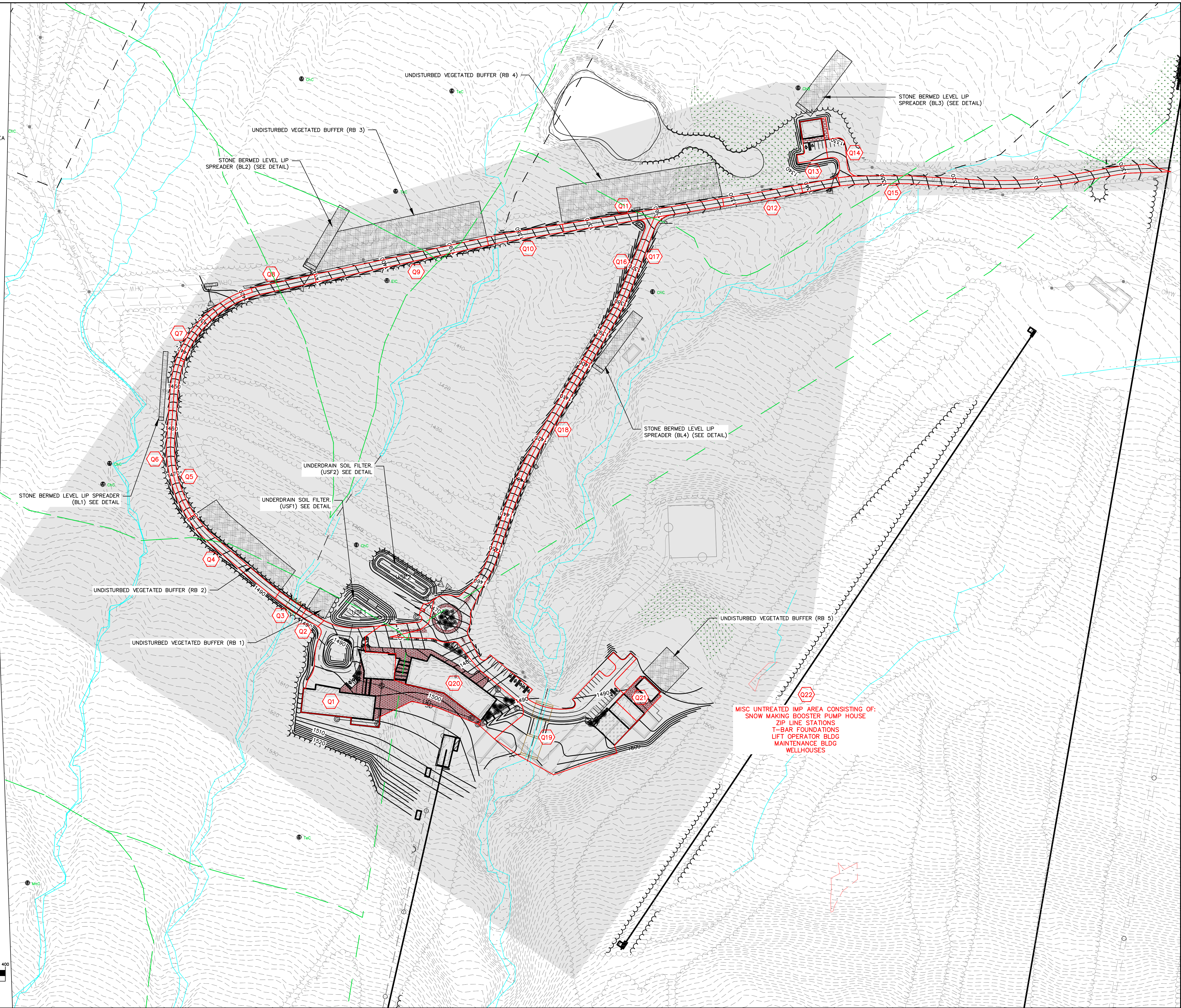
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Phase
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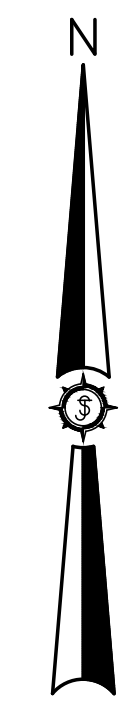
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LINE LEGEND

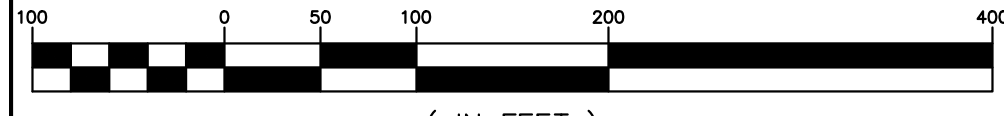
- 1 SUBCATCHMENT LABEL
- SUBCATCHMENT LINE
- SOILS LINE
- SOILS LABEL
- PHOSPHOROUS DEVELOPMENT AREA



MISC UNTREATED IMP AREA CONSISTING OF:
 SNOW MAKING BOOSTER PUMP HOUSE
 ZIP LINE STATIONS
 T-BAR FOUNDATIONS
 LIFT OPERATOR BLDG
 MAINTENANCE BLDG
 WELLHOUSES



GRAPHIC SCALE



(IN FEET)
 1 inch = 100 ft.

Drawn By	FAB/JAO
Checked By	AS SHOWN
Scale	AS SHOWN
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Name	BIG LAKE DEVELOPMENT, LLC BIG MOOSE RESORT
Project No.	85716E
Sheet No.	C-5.01
Permit No.	PERMIT

Designed By	FAB/JAO
Drawn	03/22/2021
Scale	AS SHOWN
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Name	BIG LAKE DEVELOPMENT, LLC BIG MOOSE RESORT
Project No.	85716E
Sheet No.	C-5.01
Permit No.	PERMIT

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

Project Location
BIG MOOSE TOWNSHIP, MAINE

Project No.
85716E

Sheet No.
C-5.01

Permit No.
PERMIT

Drawn By
 FAB/JAO

Checked By
 AS SHOWN

Scale
 AS SHOWN

Project Location
 BIG MOOSE TOWNSHIP, MAINE

Project Name
 BIG LAKE DEVELOPMENT, LLC
 BIG MOOSE RESORT

Project No.
 85716E

Sheet No.
 C-5.01

Permit No.
 PERMIT

Drawn By
 FAB/JAO

Checked By
 AS SHOWN

Scale
 AS SHOWN

Project Location
 BIG MOOSE TOWNSHIP, MAINE

Project Name
 BIG LAKE DEVELOPMENT, LLC
 BIG MOOSE RESORT

Project No.
 85716E

Sheet No.
 C-5.01

Permit No.
 PERMIT

Drawn By
 FAB/JAO

Checked By
 AS SHOWN

Scale
 AS SHOWN

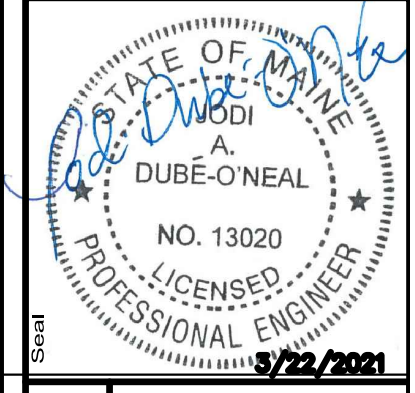
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 BIG MOOSE TOWNSHIP, MAINE

Project Name
 BIG LAKE DEVELOPMENT, LLC
 BIG MOOSE RESORT

Project No.
 85716E

Sheet No.
 C-5.01

Permit No.
 PERMIT



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PROJECT NO. 85716E

SHEET NO. C-5.01

PERMIT NO. PERMIT

DATE 03/22/2021

SCALE AS SHOWN

PROJECT LOCATION BIG MOOSE TOWNSHIP, MAINE

PROJECT NAME BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

PROJECT NO. 85716E

SHEET NO. C-5.01

PERMIT NO. PERMIT

DRAWN BY FAB/JAO

CHECKED BY AS SHOWN

SCALE AS SHOWN

PROJECT LOCATION BIG MOOSE TOWNSHIP, MAINE

PROJECT NAME BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

PROJECT NO. 85716E

SHEET NO. C-5.01

PERMIT NO. PERMIT

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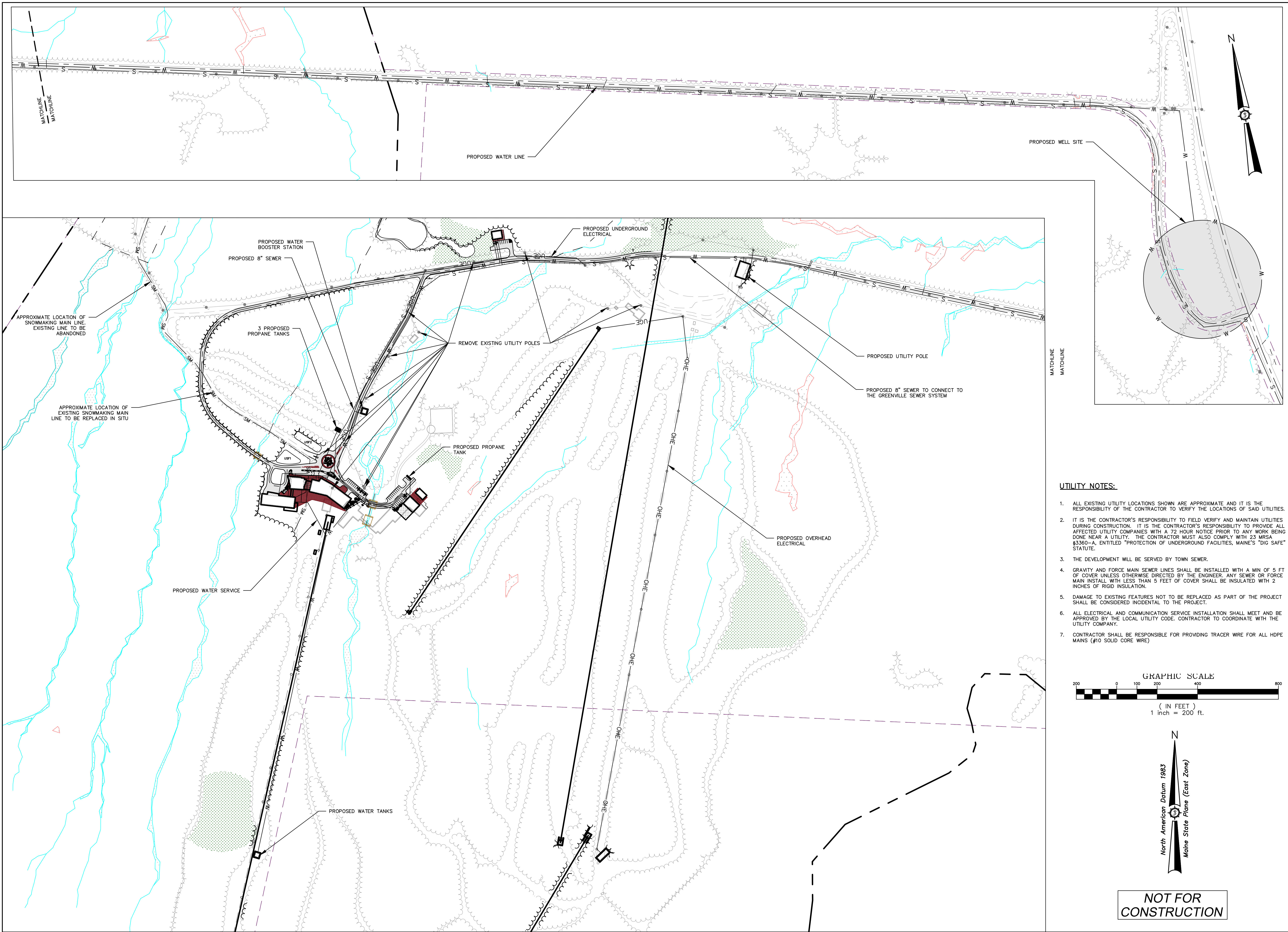
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PROJECT NAME BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

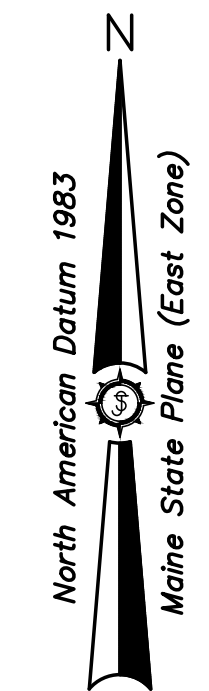
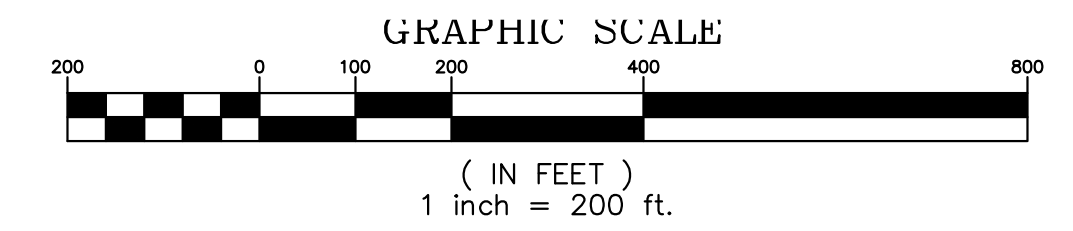
PROJECT NO. 85716E

SHEET NO. C-5.01

PERMIT NO. PERMIT



- UTILITY NOTES:**
1. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF SAID UTILITIES.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND MAINTAIN UTILITIES DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL AFFECTED UTILITY COMPANIES WITH A 72 HOUR NOTICE PRIOR TO ANY WORK BEING DONE NEAR A UTILITY. THE CONTRACTOR MUST ALSO COMPLY WITH 23 M.R.S.A. §3360-A, ENTITLED "PROTECTION OF UNDERGROUND FACILITIES, MAINE'S "DIG SAFE" STATUTE.
 3. THE DEVELOPMENT WILL BE SERVED BY TOWN SEWER.
 4. GRAVITY AND FORCE MAIN SEWER LINES SHALL BE INSTALLED WITH A MIN OF 5 FT OF COVER UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY SEWER OR FORCE MAIN INSTALL WITH LESS THAN 5 FEET OF COVER SHALL BE INSULATED WITH 2 INCHES OF RIGID INSULATION.
 5. DAMAGE TO EXISTING FEATURES NOT TO BE REPLACED AS PART OF THE PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
 6. ALL ELECTRICAL AND COMMUNICATION SERVICE INSTALLATION SHALL MEET AND BE APPROVED BY THE LOCAL UTILITY CODE. CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANY.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRACER WIRE FOR ALL HDPE MAINS (#10 SOLID CORE WIRE)



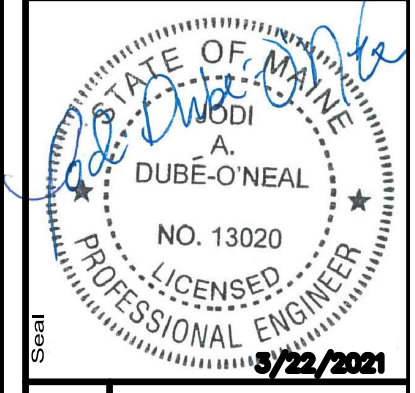
NOT FOR CONSTRUCTION

Drawn By	FAB/JAO
Checked	
Scale	AS SHOWN
Project Location	BIG MOOSE TOWNSHIP, MAINE
Project Name	BIG MOOSE RESORT
Project No.	85716E
Sheet No.	C-6.01
Phase	PERMIT

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

Project Location: BIG MOOSE TOWNSHIP, MAINE

Overall Utility Plan



85716E

ENGINEERING SURVEYING

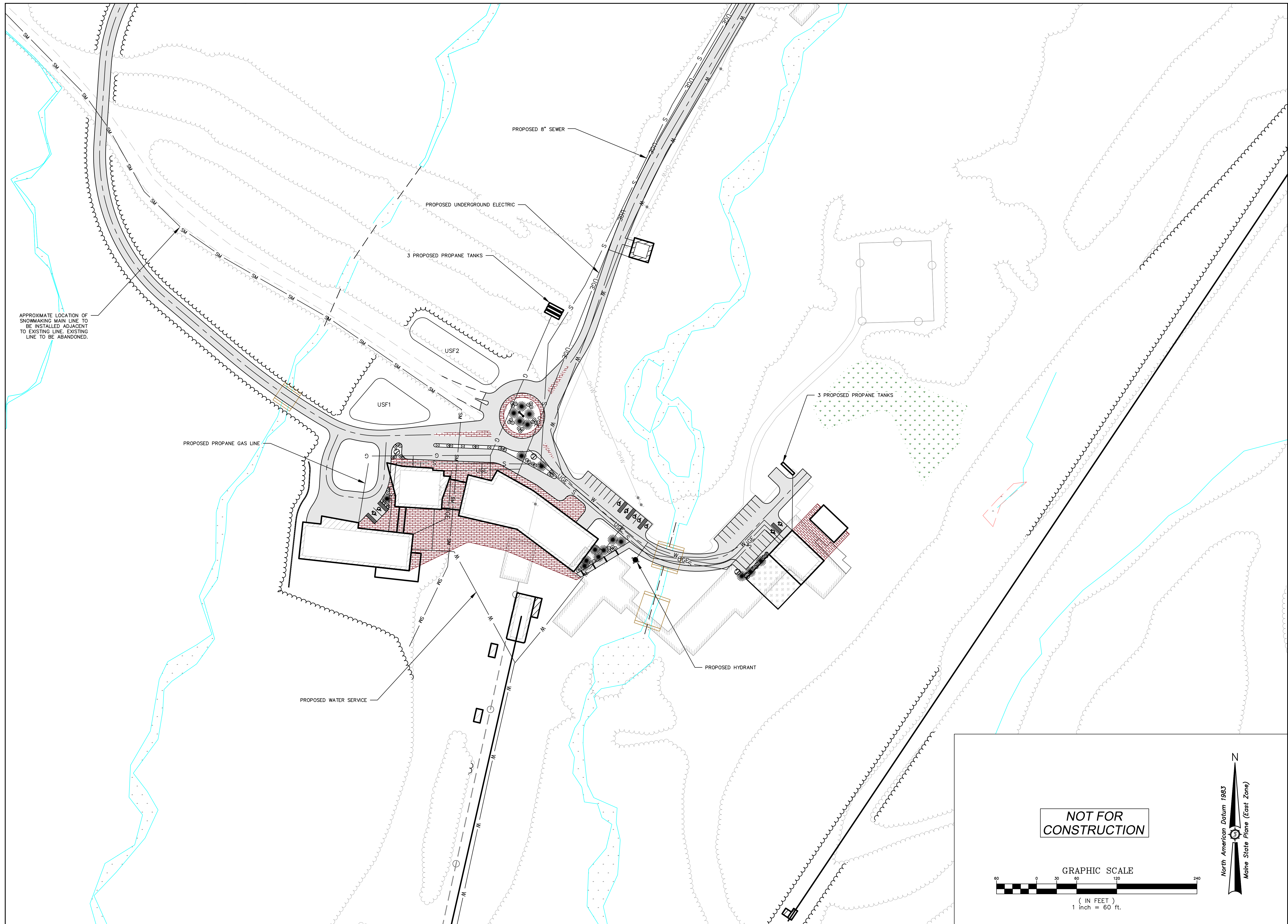
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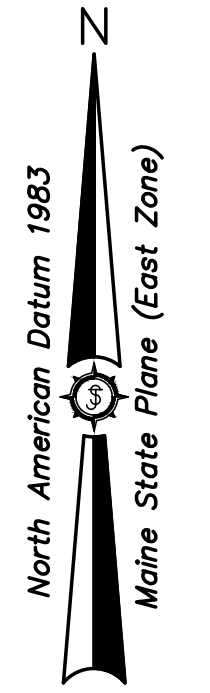
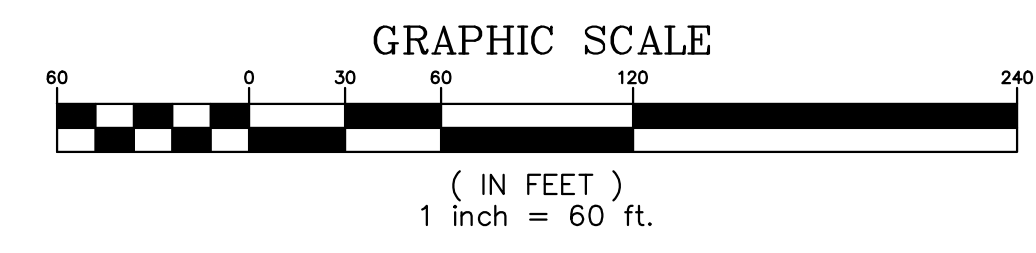
PERMIT

C-6.01



APPROXIMATE LOCATION OF SNOWMAKING MAIN LINE TO BE INSTALLED ADJACENT TO EXISTING LINE. EXISTING LINE TO BE ABANDONED.

NOT FOR CONSTRUCTION

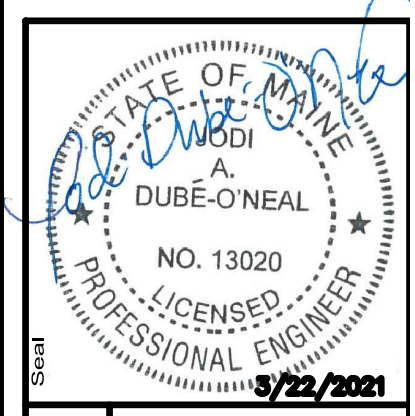


Rev. #	Date	By	Description

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DATE: 03/22/2021
SCALE: AS SHOWN
DRAWN BY: FAB/JAO
CHECKED: []
APPROVED: []

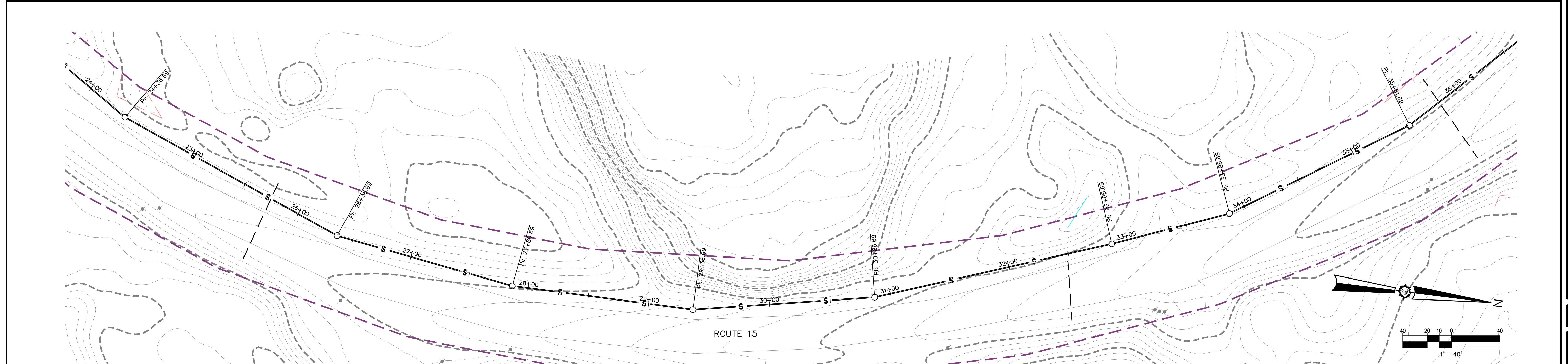
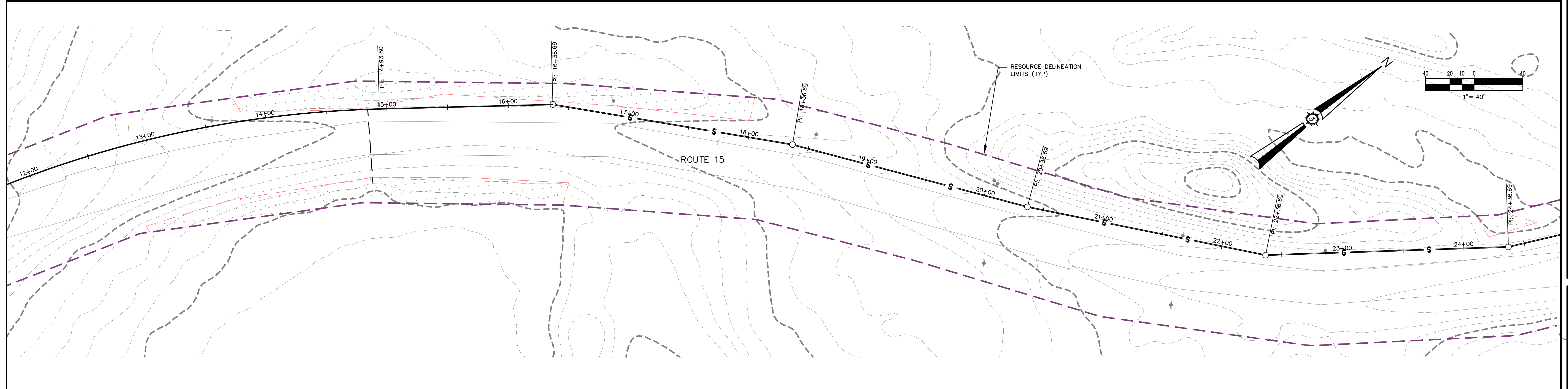
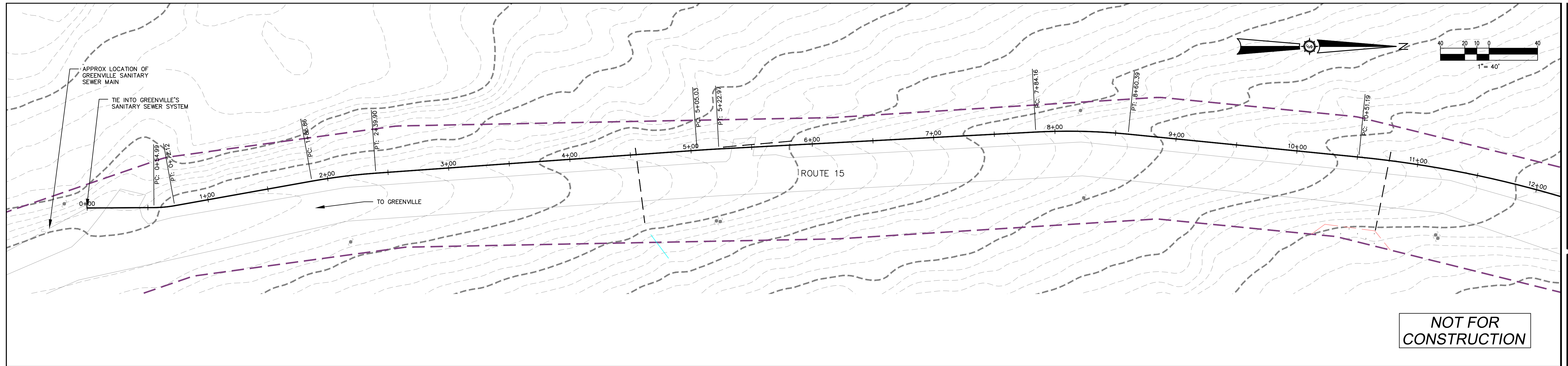
PROJECT LOCATION: BIG MOOSE TOWNSHIP, MAINE
DRAWING DESCRIPTION: VILLAGE AREA UTILITY PLAN

CLIENT: BIG LAKE DEVELOPMENT, LLC
PROJECT: BIG MOOSE RESORT



PROJECT NO.: 85716E
ENGINEER: Sewall
SURVEYING
PERMIT
SHEET NO.: C-6.02

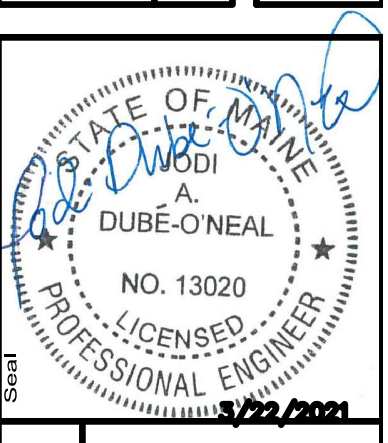
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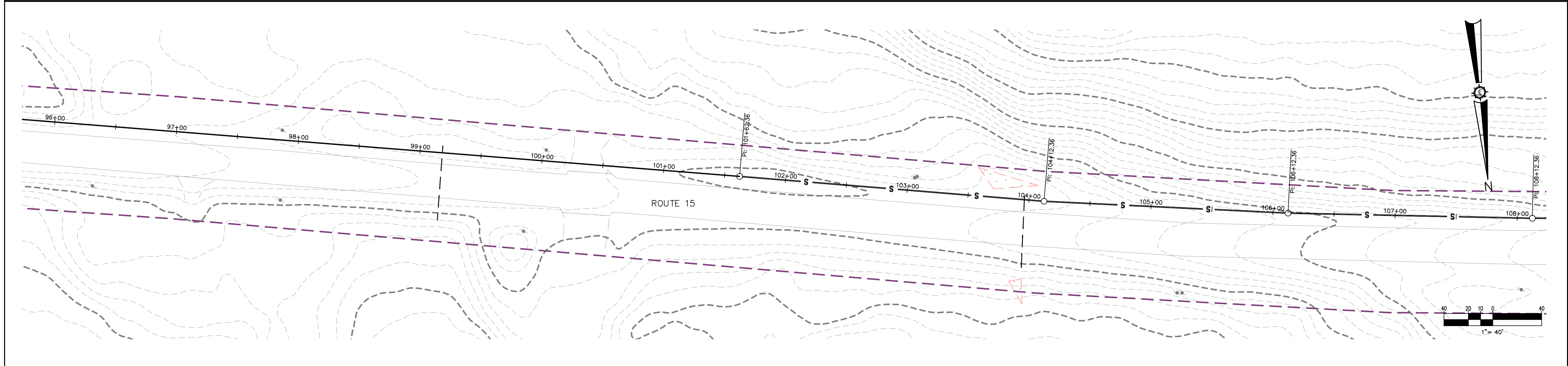
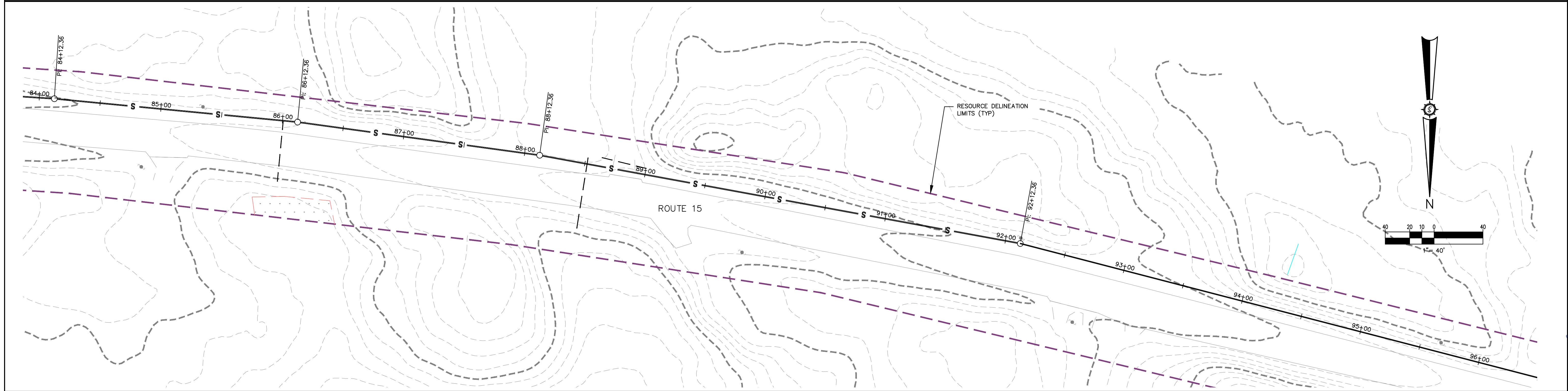
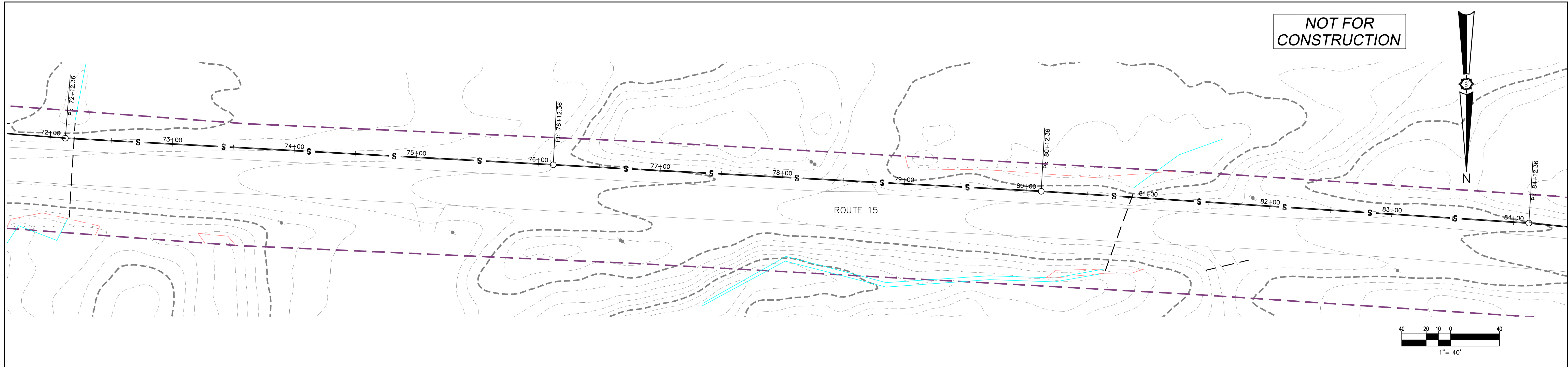
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Date 03/22/2021	Checked MS SHOWN
Scale AS SHOWN	Approved MS SHOWN

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT
 SKI RESORT RD.
 Project Location
BIG MOOSE TOWNSHIP, MAINE
 Designer/Consultant
SANITARY SEWER PLAN
STATION 0+00 TO 36+00



Project No. **85716E**
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Phase
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 Sheet No.
C-7.01



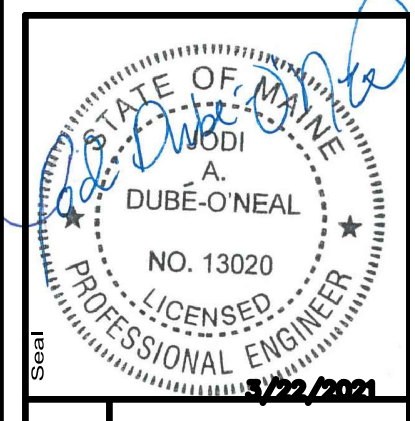
Rev. #	Drawn By	Description	Date

Designation	Drawn By	Checked
FAB	FAB	
Date		
03/22/2021		
Scale	AS SHOWN	
Approved		

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT

SKI RESORT RD.
 Project Location
 BIG MOOSE TOWNSHIP, MAINE

Sanitary Sewer Plan
STATION 72+00 TO 108+00



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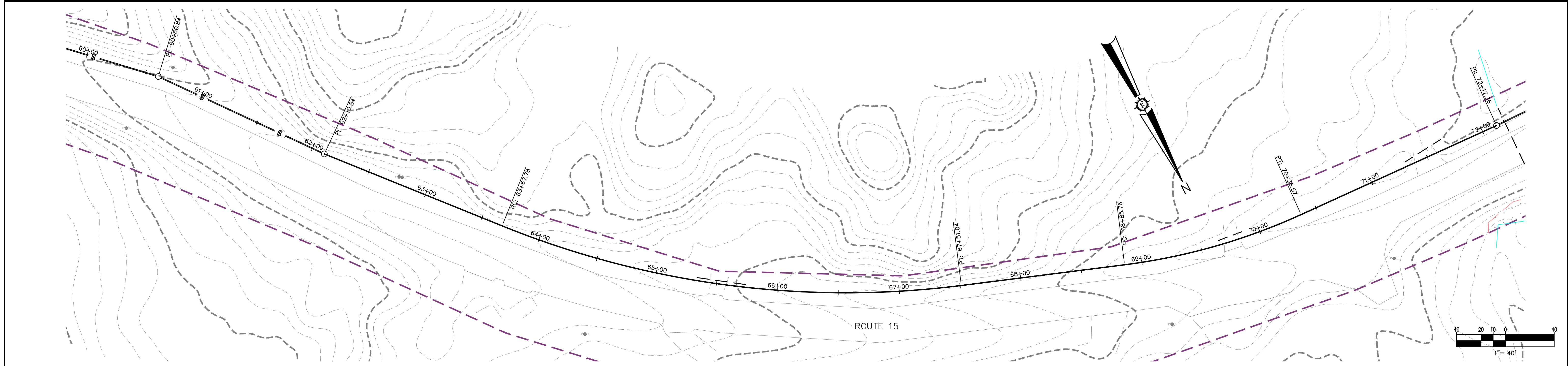
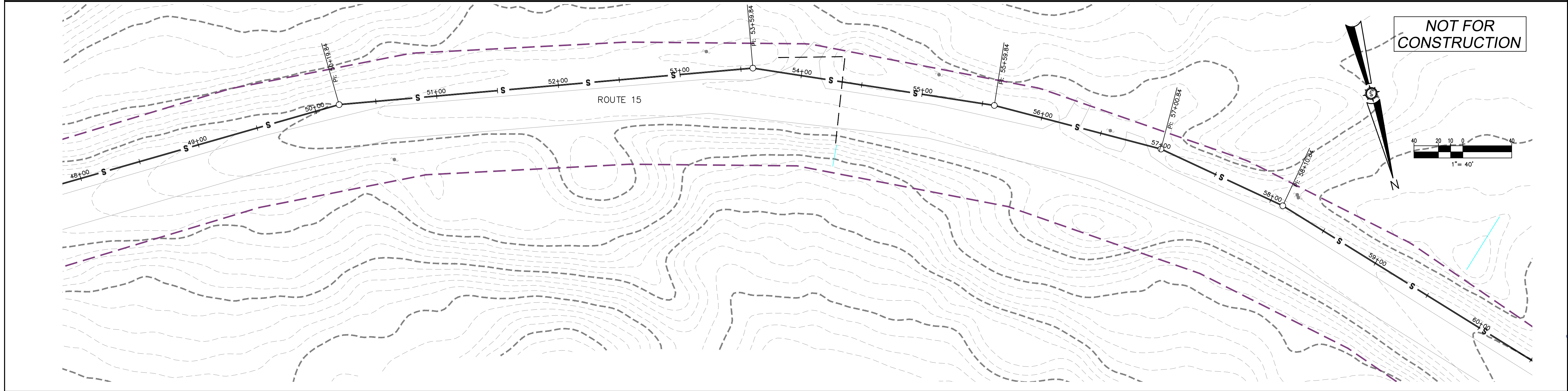
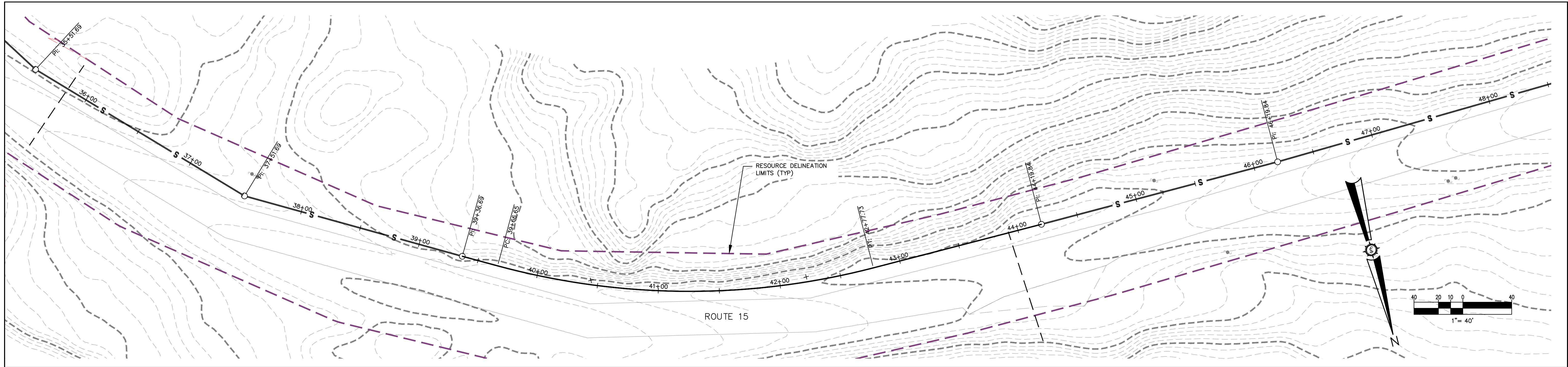
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Phase

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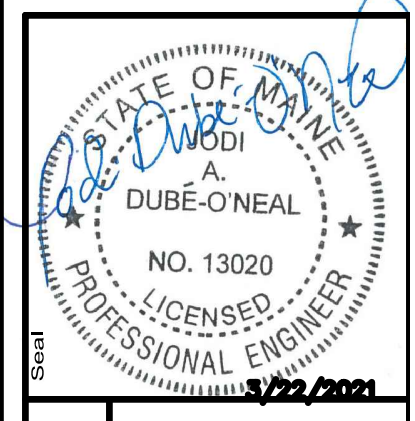
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C-7.03



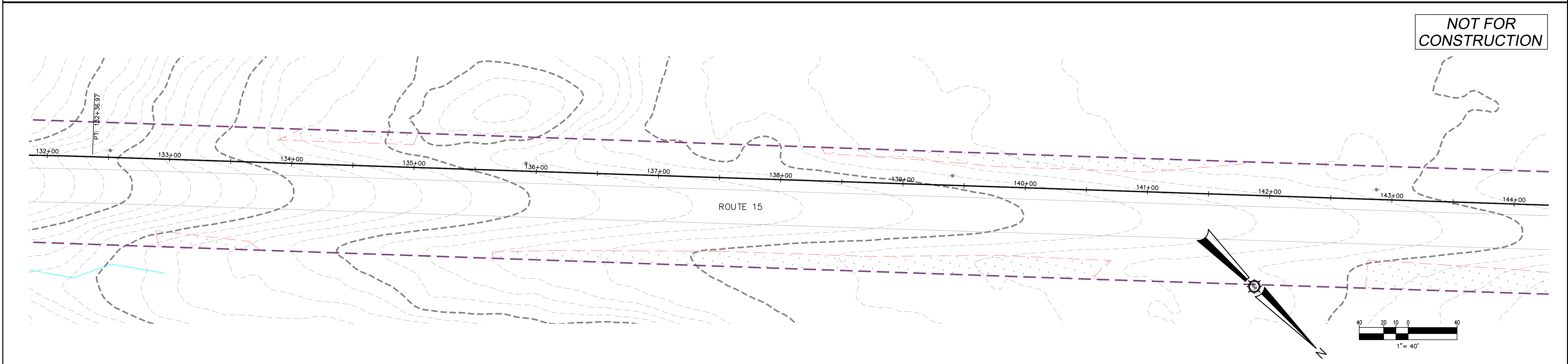
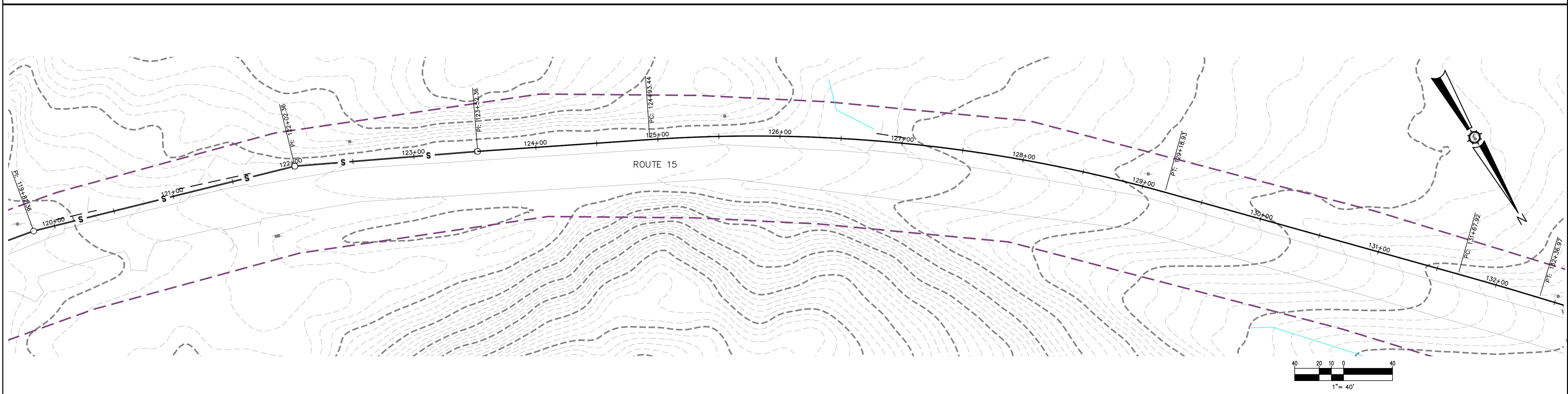
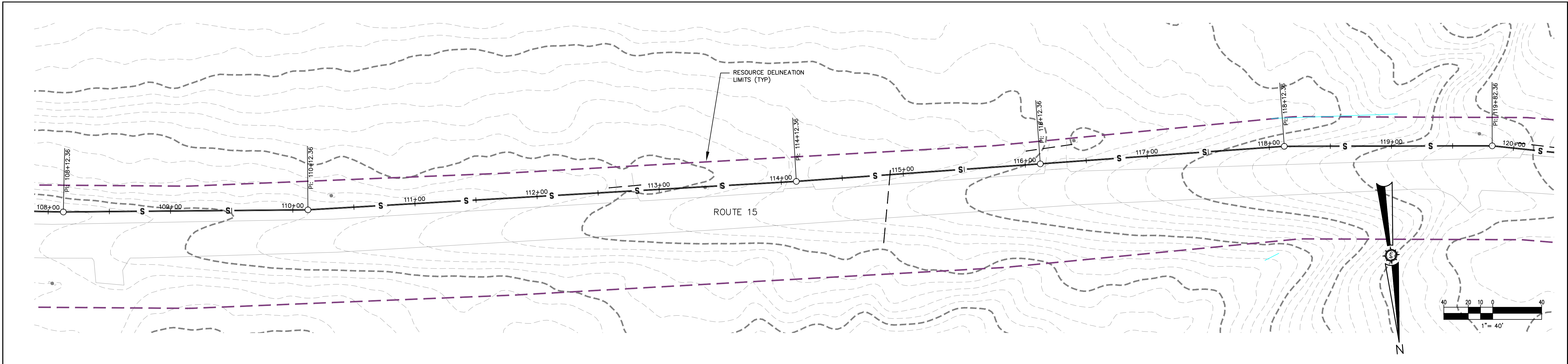
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Checked	
Designated By	FAB
Class	03/22/2021
Scale	AS SHOWN
Approved	
Checked	

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT
 SKI RESORT RD.
 Project Location
BIG MOOSE TOWNSHIP, MAINE
 Owner's Representative
SANITARY SEWER PLAN
STATION 36+00 TO 72+00



Project No. **85716E**
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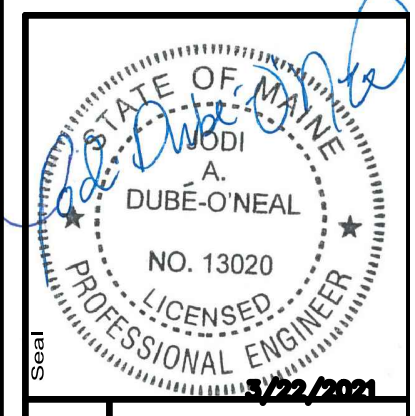
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 Sheet No.
C-7.02



Rev. #	Drawn By	Description	Date

Designed By FAB	Drawn By FAB
Date 03/22/2021	Scale AS SHOWN
Checked AS SHOWN	Approved AS SHOWN

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT
 SKI RESORT RD.
 Project Location
BIG MOOSE TOWNSHIP, MAINE
 Drawn by
SANITARY SEWER PLAN
STATION 108+00 TO 144+00

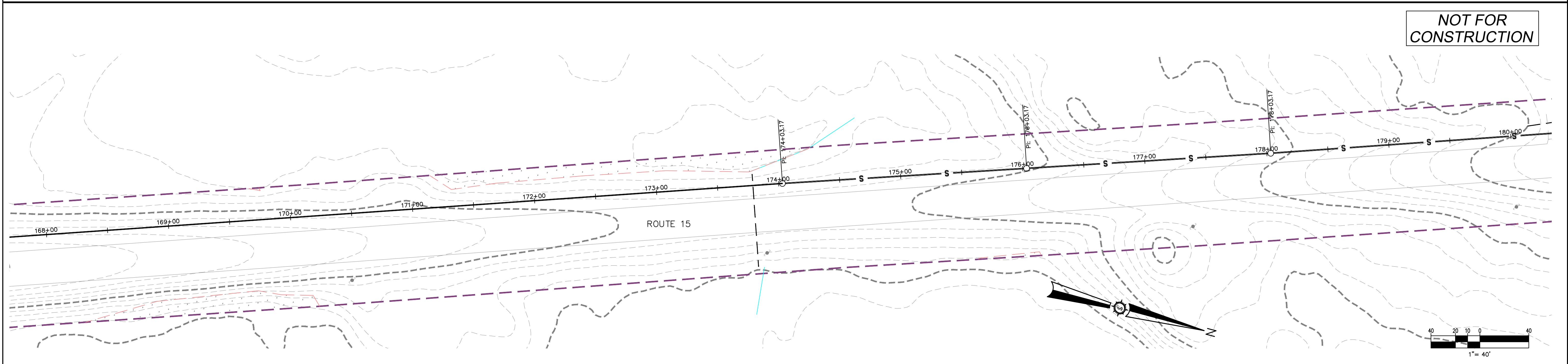
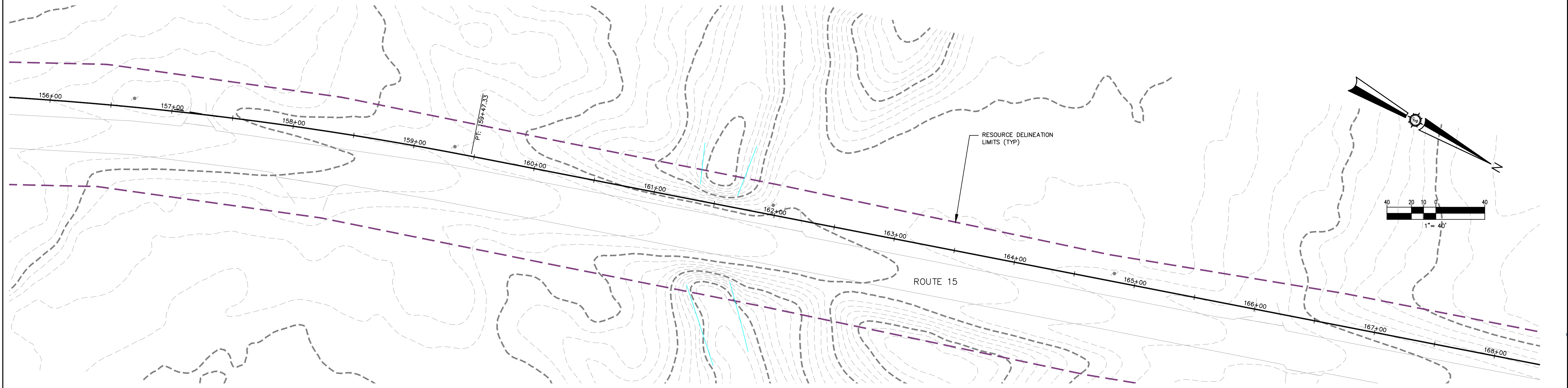
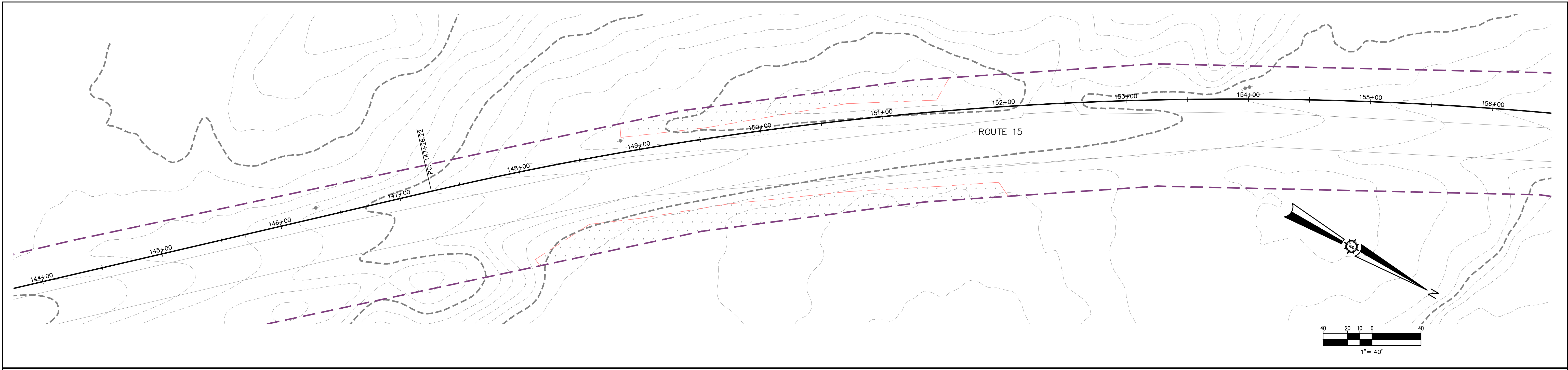


Project No. **85716E**

Phase **PERMIT**

Sheet No. **C-7.04**

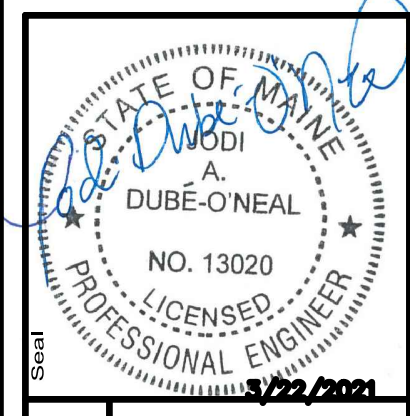
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Rev. #	Drawn By	Description	Date

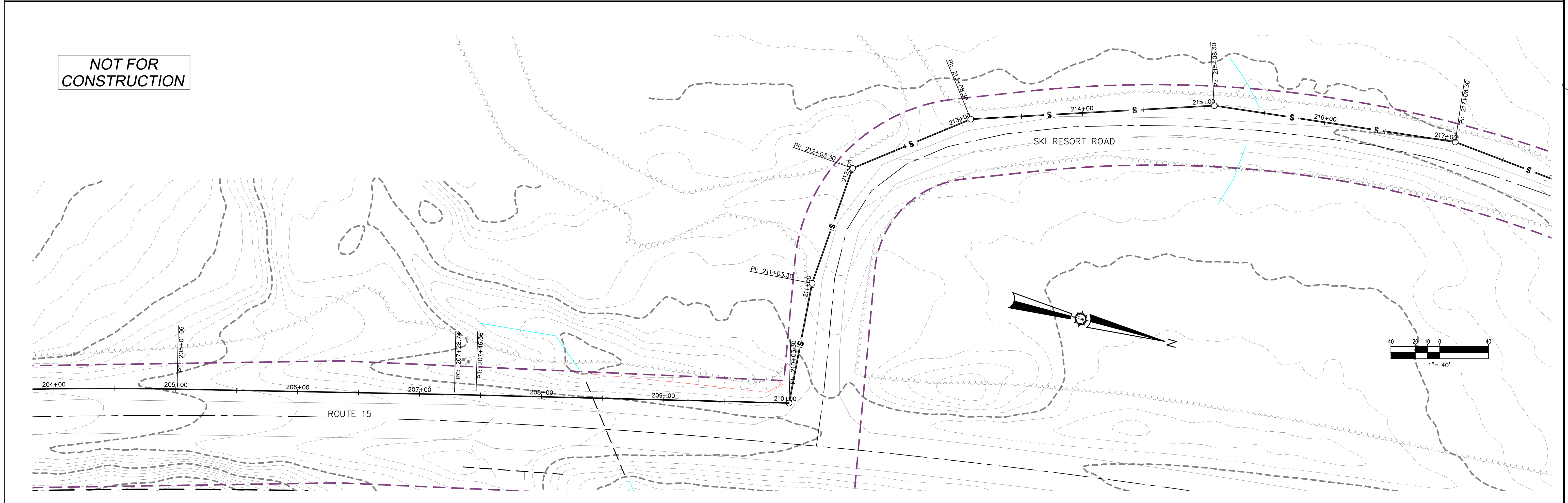
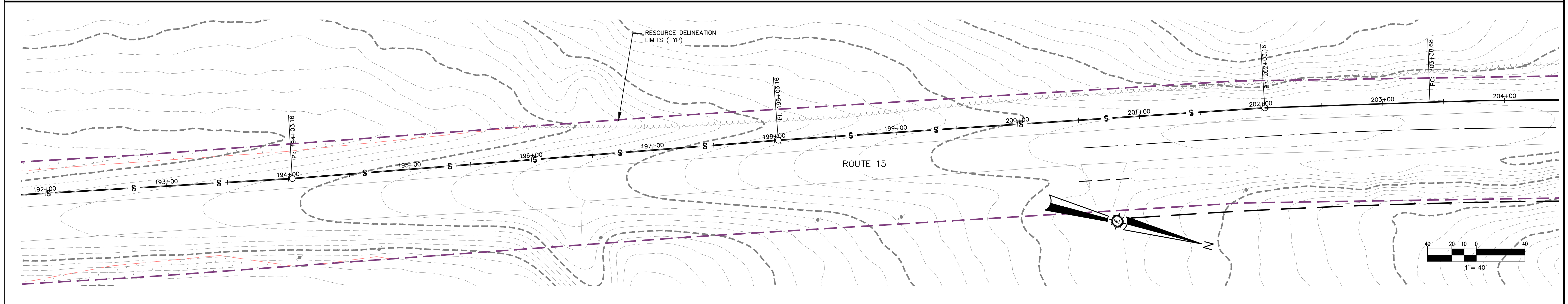
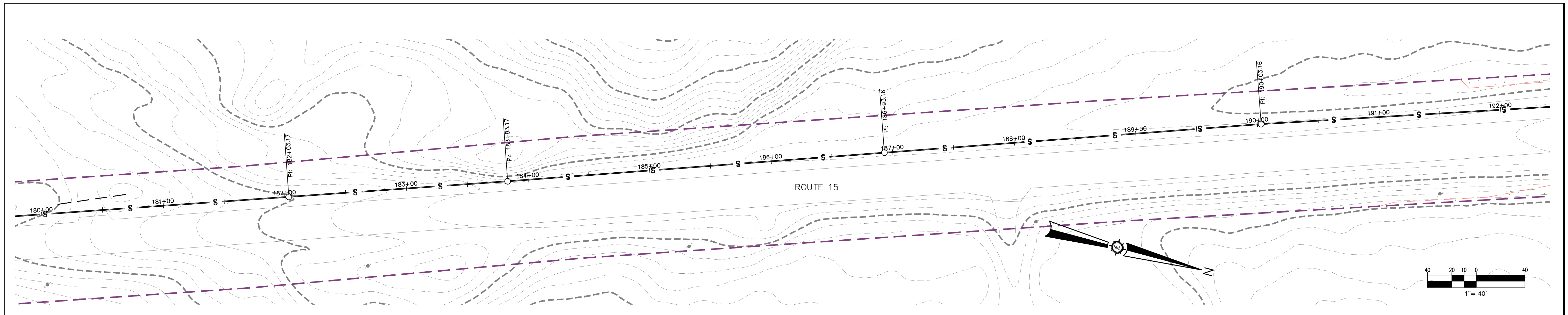
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 Date: 03/22/2021
 Scale: AS SHOWN
 Approved: [Signature]
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BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT
 Project Location:
BIG MOOSE TOWNSHIP, MAINE
SANITARY SEWER PLAN
STATION 144+00 TO 180+00



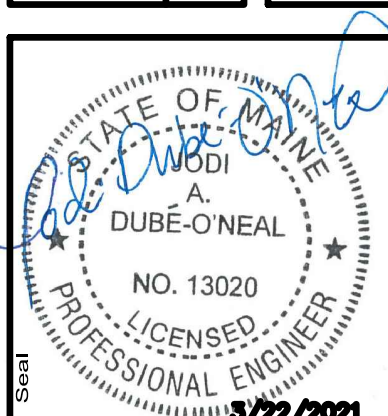
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Phase: **PERMIT**
 Sheet No.: **C-7.05**

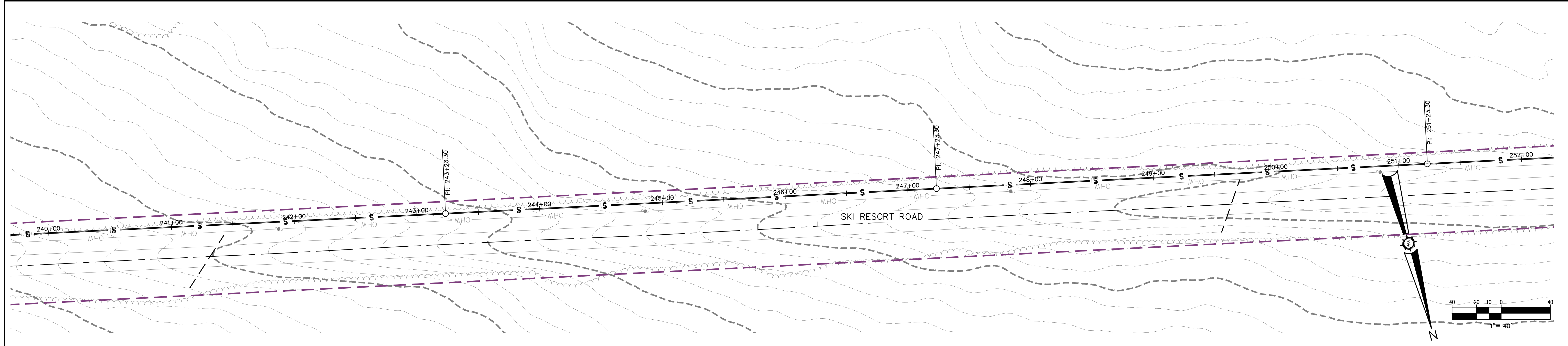
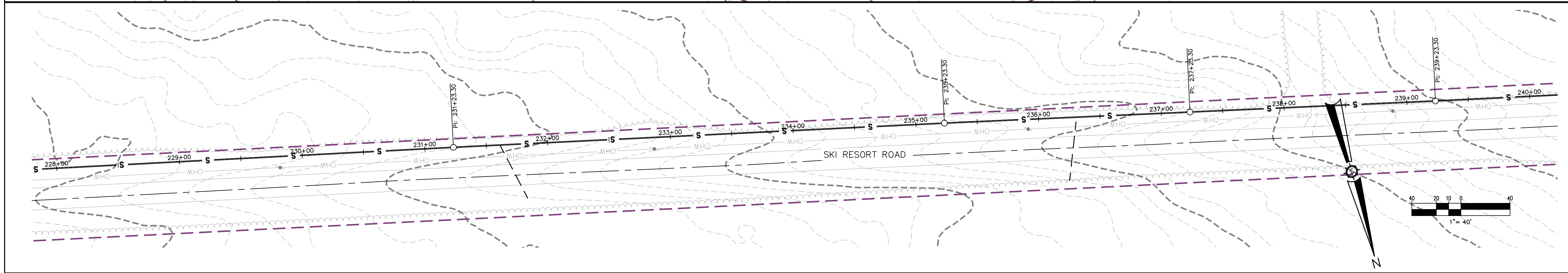
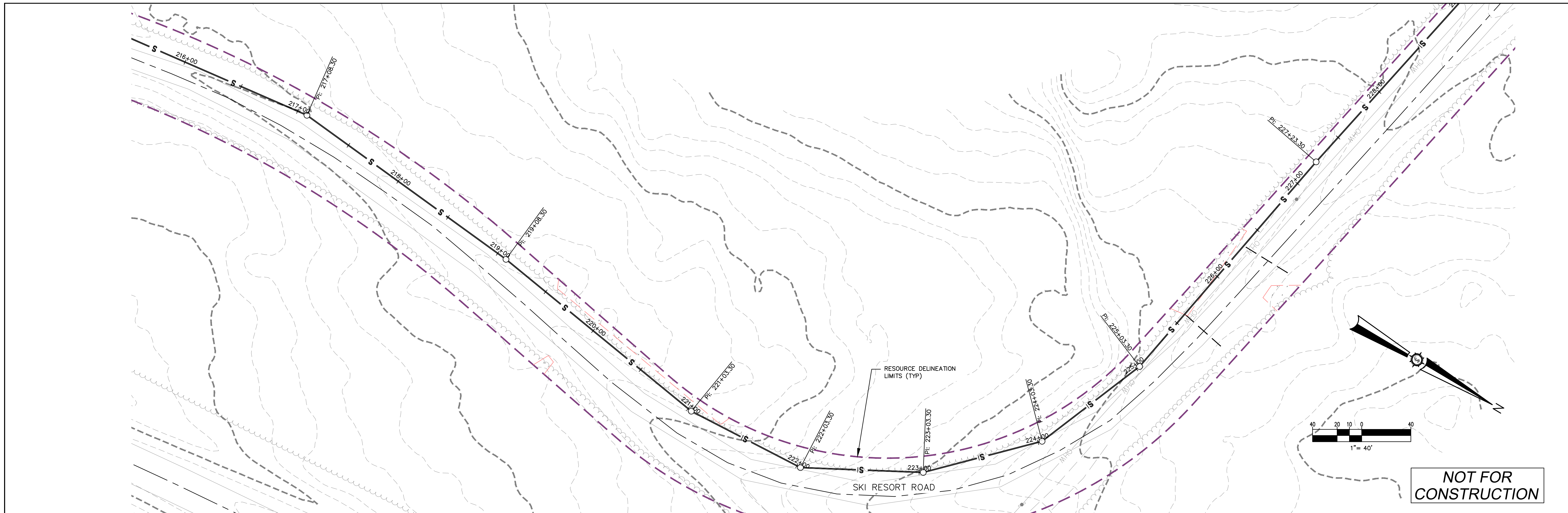


Drawn By	FAB
Checked	
Designated By	FAB
Date	03/22/2021
Scale	AS SHOWN
Approved	

BIG LAKE DEVELOPMENT, LLC
BIG MOOSE RESORT
 Project Location
 BIG MOOSE TOWNSHIP, MAINE
 Drawing Description
SANITARY SEWER PLAN
STATION 180+00 TO 216+00

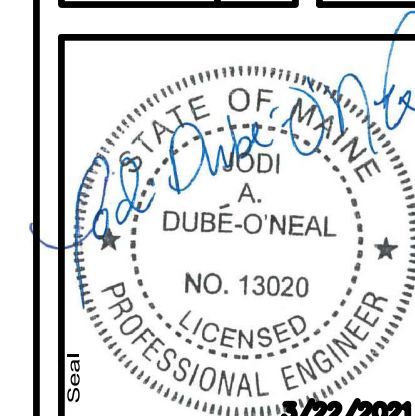


Project No. 85716E
 Engineer
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 Phase **PERMIT**
 Sheet No. **C-7.06**



Rev. #	Drawn By	Description	Date

Designated By FAB	Drawn By FAB
Date 03/22/2021	Scale AS SHOWN
Project Location BIG MOOSE TOWNSHIP, MAINE	
Sanitary Sewer Plan STATION 216+00 TO 252+00	
Checked	Approved



Project No. 85716E

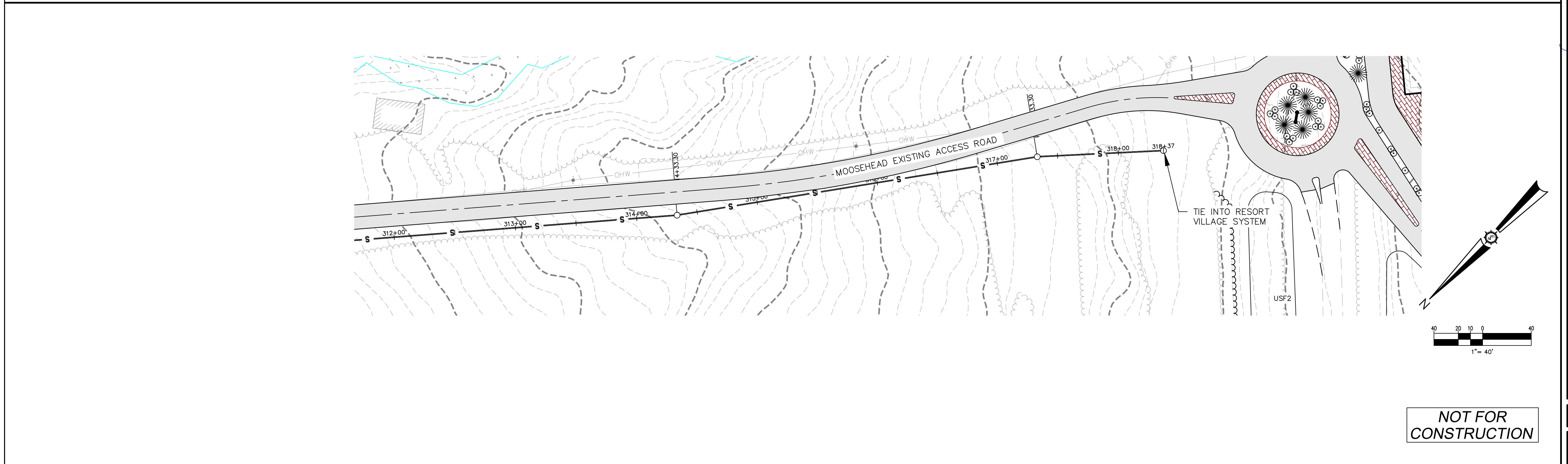
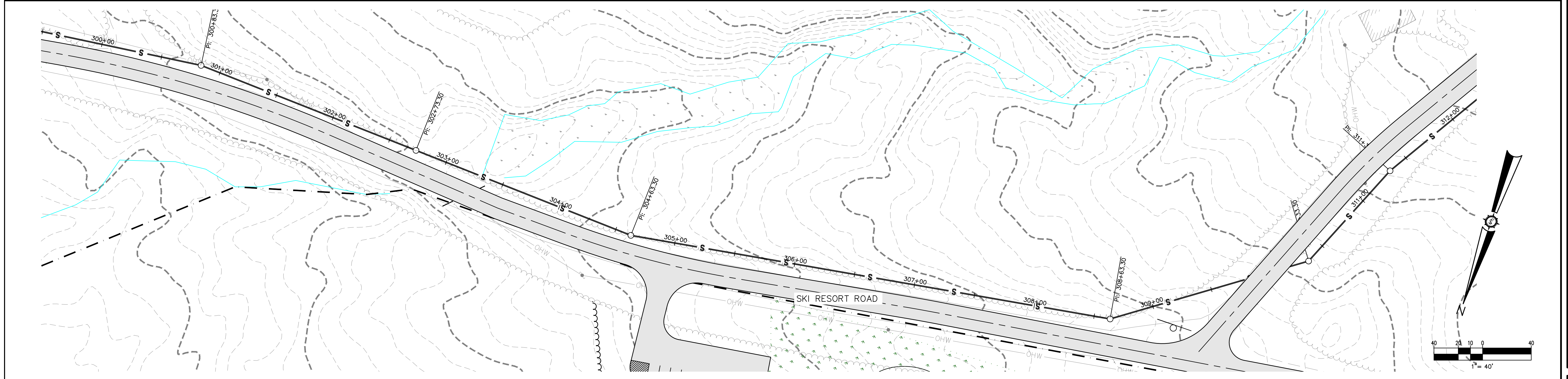
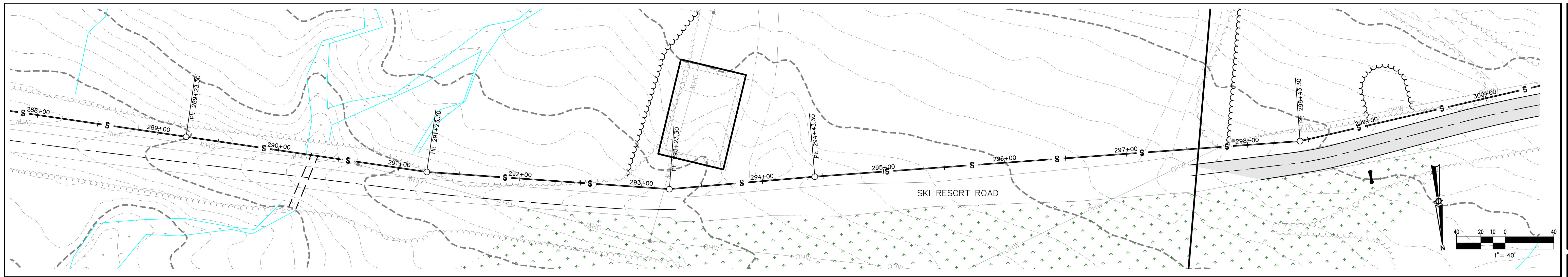
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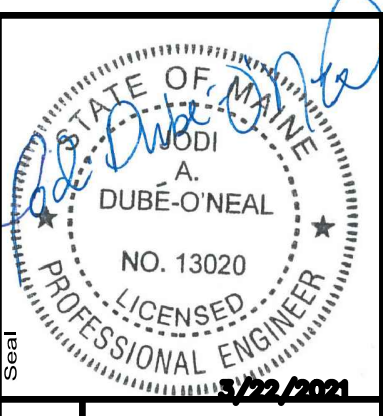
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CONSTRUCTION

Rev. #	Drawn By	Description	Date

Designated By FAB	Drawn By FAB
Date 03/22/2021	Scale AS SHOWN
Project Location BIG MOOSE TOWNSHIP, MAINE	Approved AS SHOWN
Designer/Consultant SANITARY SEWER PLAN STATION 288+00 TO 318+37	Checked AS SHOWN



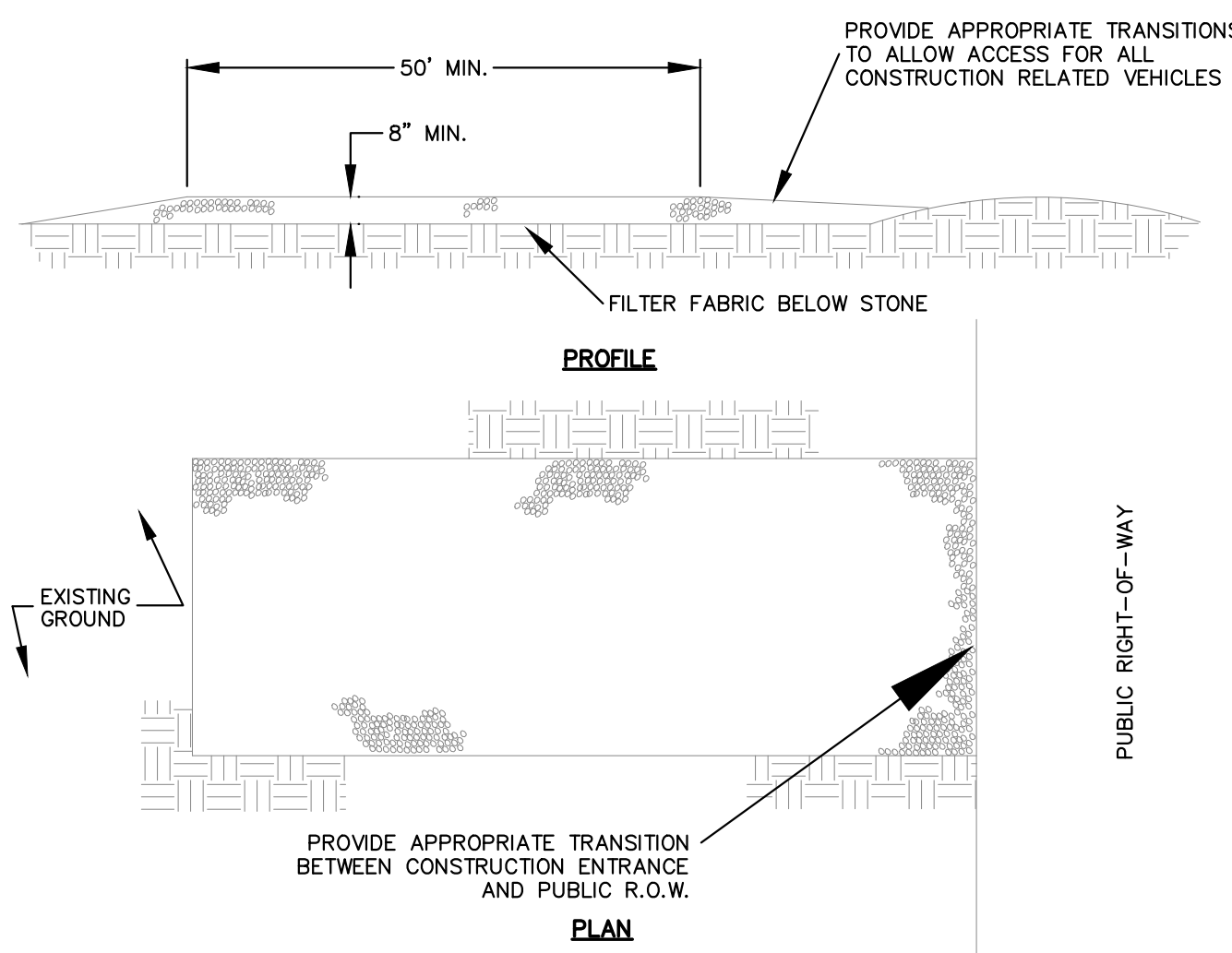
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85716E

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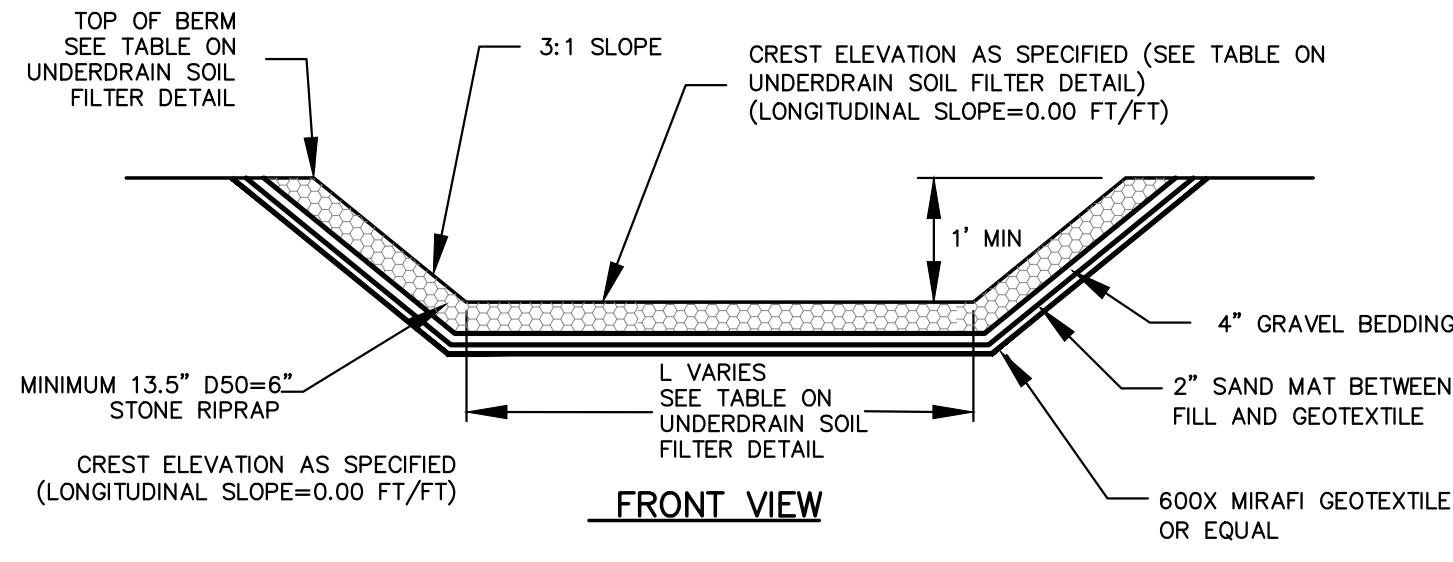
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Phase	PERMIT
Sheet No.	C-7.09

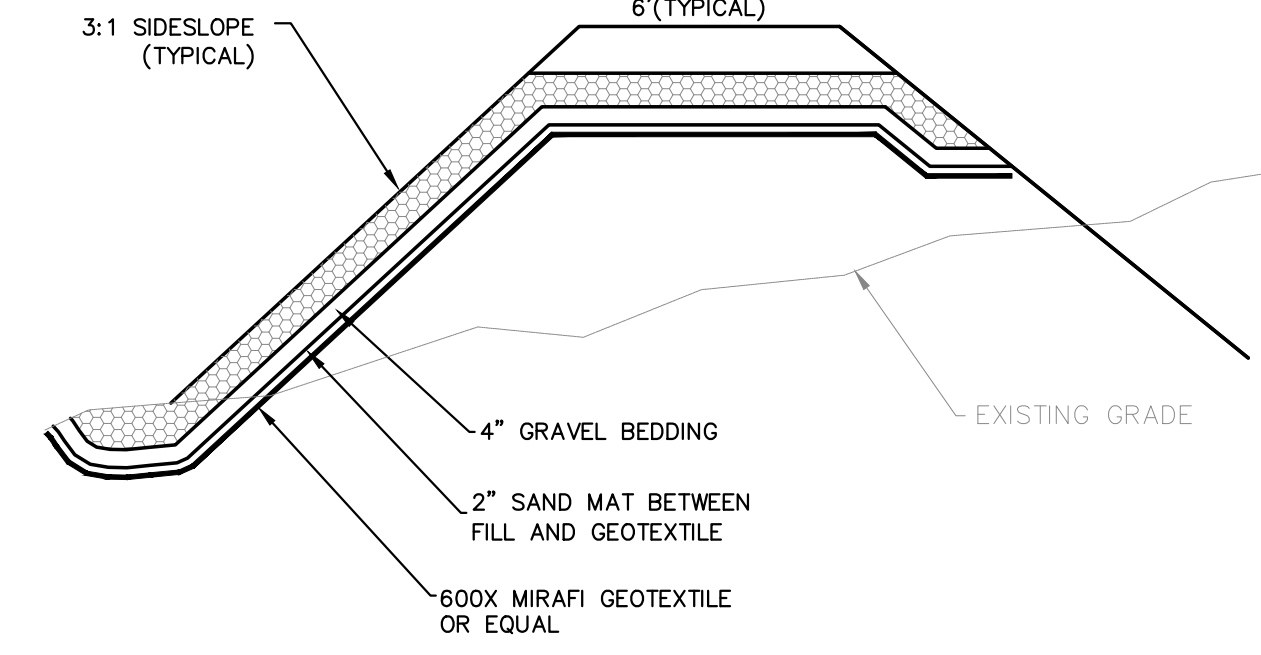
- NOTES:**
1. STONE SIZE - AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" to 1 1/2"). USE CRUSHED STONE.
 2. LENGTH - AS SHOWN ON GRADING PLAN, MIN. 50 FEET.
 3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
 4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS.
 5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ON PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT, ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.



STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

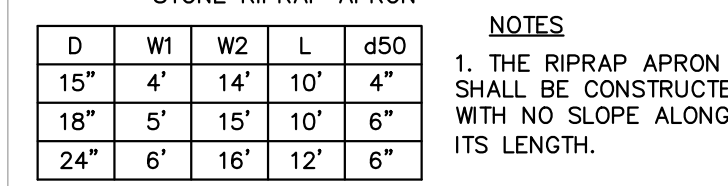
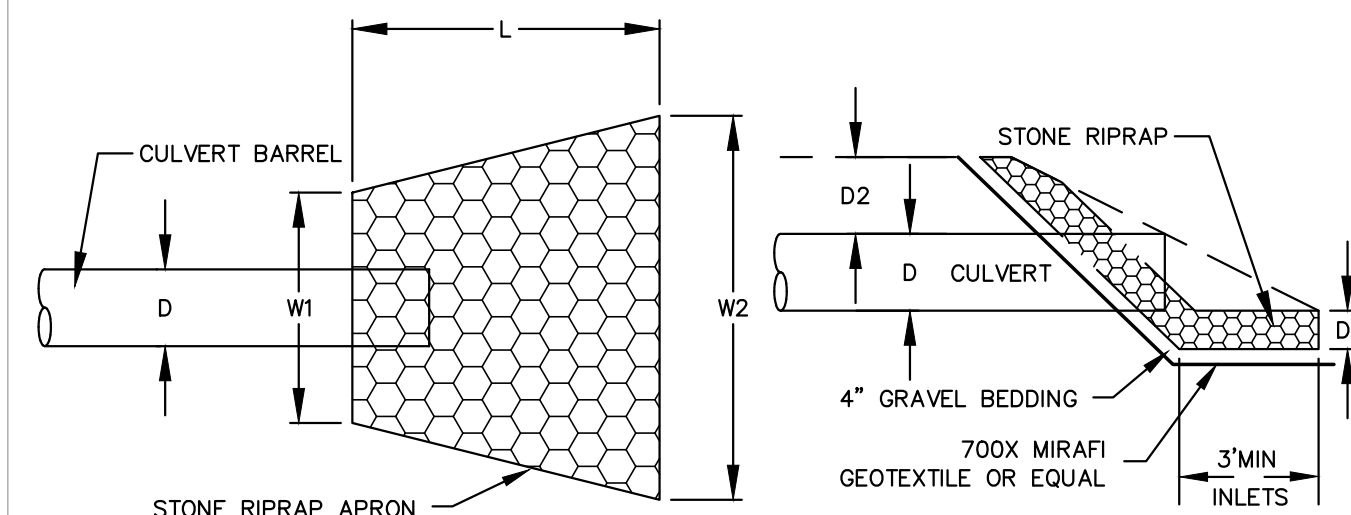


FRONT VIEW

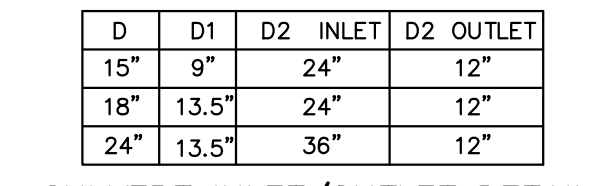


EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

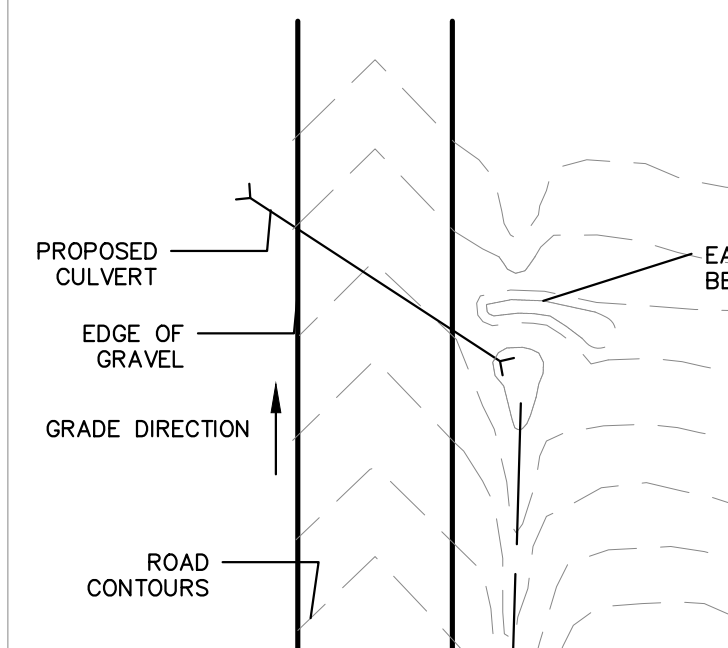
- NOTE:**
1. SEE TABLES ON SHEET D-1.03 AND TYPICAL UNDERDRAIN SOIL FILTER DETAIL FOR ELEVATIONS AND DIMENSION INFORMATION.



CULVERT OUTLET DETAIL
PLAN VIEW
NOT TO SCALE

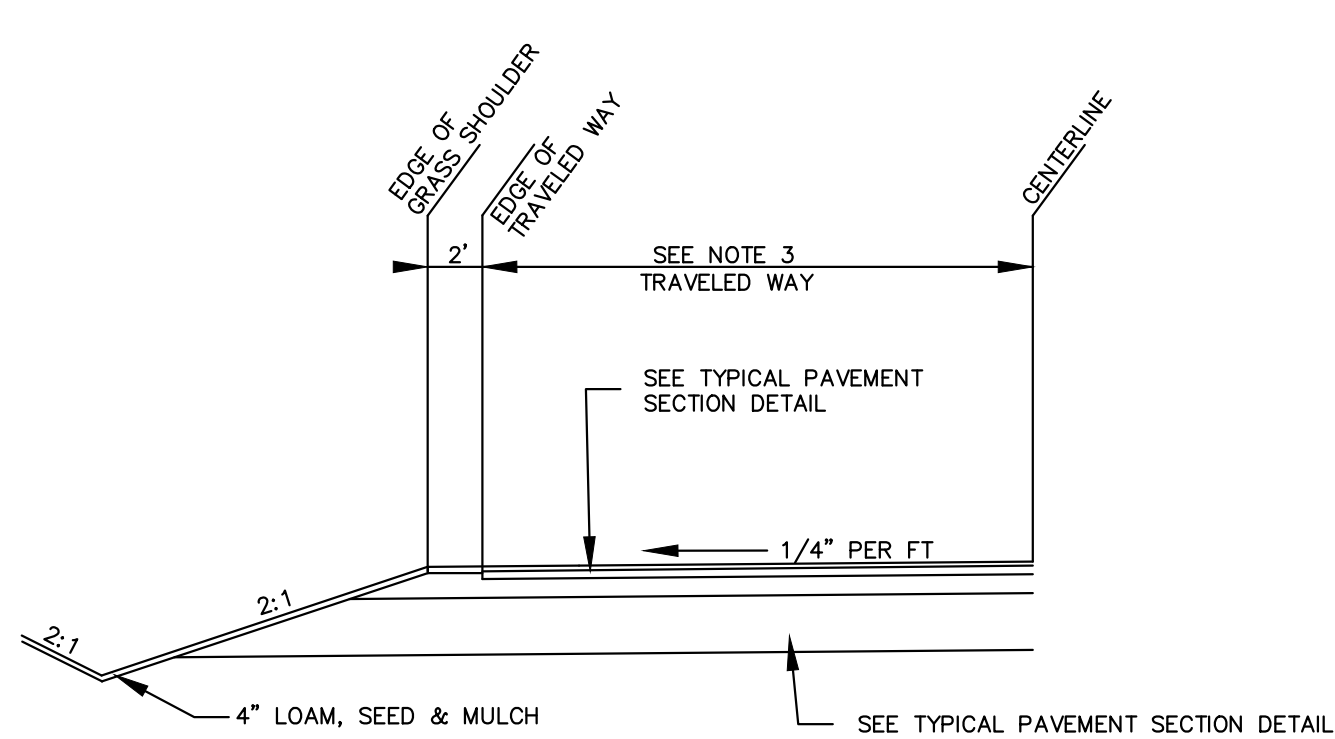


CULVERT INLET/OUTLET DETAIL
PLAN VIEW
NOT TO SCALE

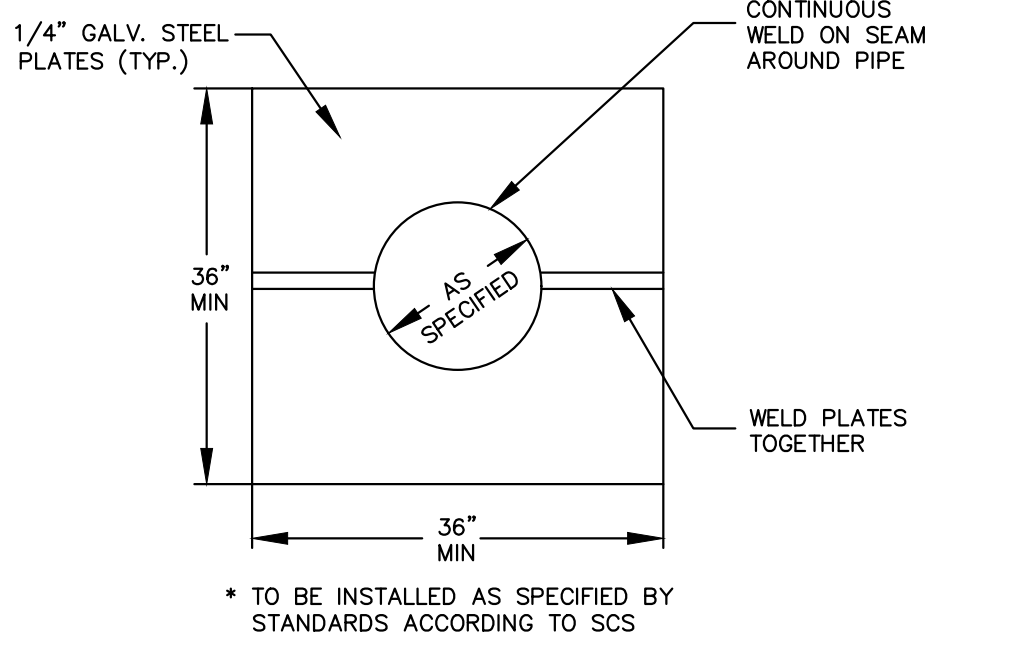


BERMED CULVERT INLET DETAIL
NOT TO SCALE

- NOTES:**
1. CONTRACTOR SHALL CONSTRUCT BERM AT EACH CULVERT INLET TO DIRECT DITCH FLOW INTO CULVERT.
 2. CONTRACTOR SHALL LOWER INVERT ELEVATION AS APPROPRIATE TO MAINTAIN COVER BETWEEN CROSS CULVERTS, ROADWAY, AND DITCH ON OPPOSITE SIDE OF ROAD.
 3. VERIFY COVER REQUIREMENTS WITH PIPE MANUFACTURER.



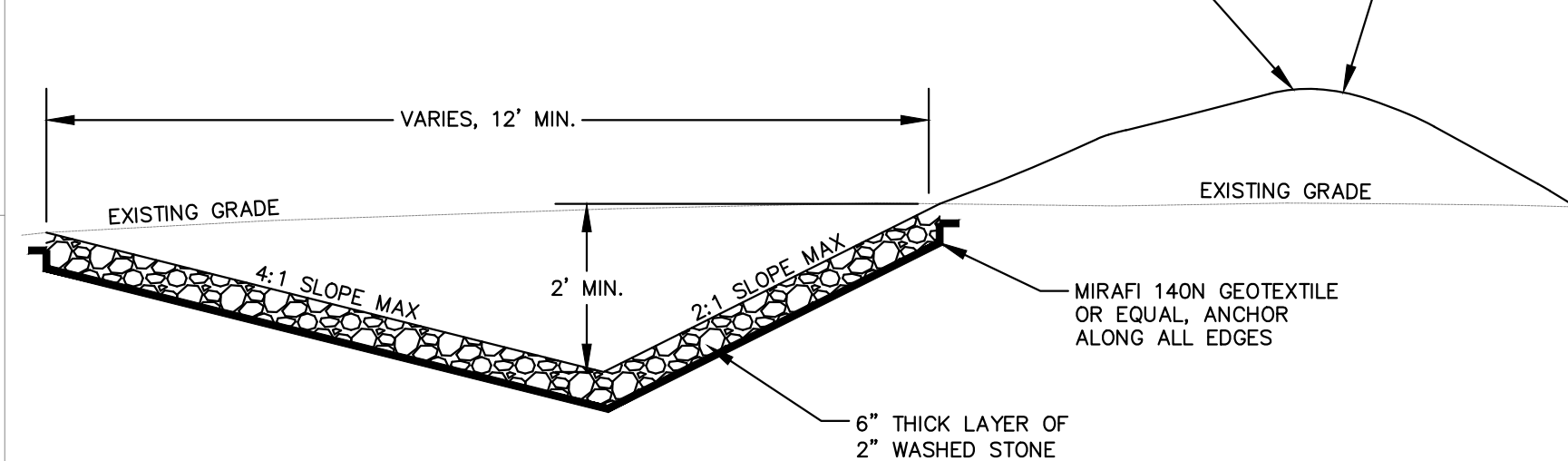
TYPICAL ROAD CROSS-SECTION
NOT TO SCALE



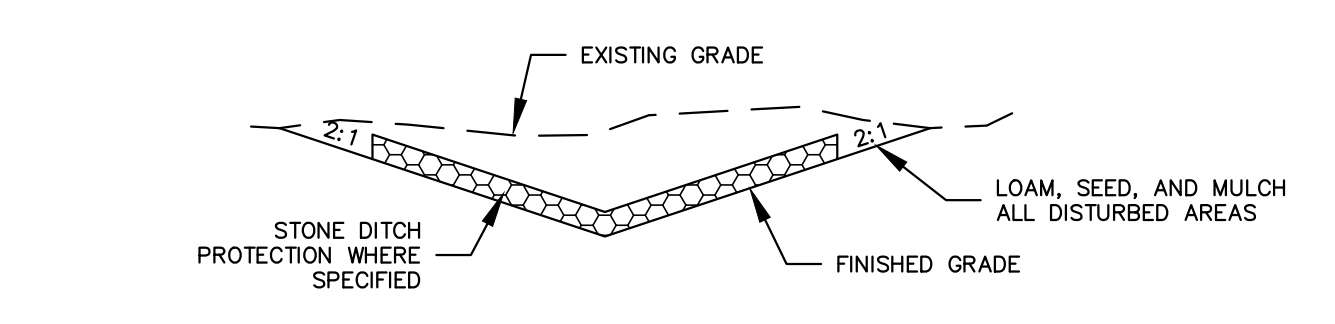
TYPICAL ANTI-SEEP COLLAR
NOT TO SCALE

LEVEL SPREADER DETAIL

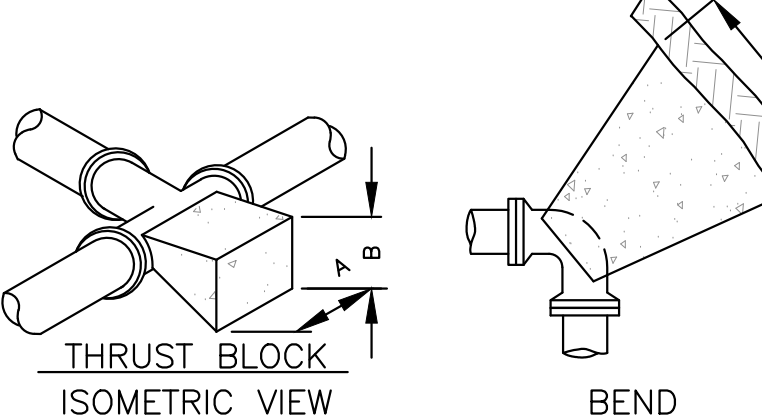
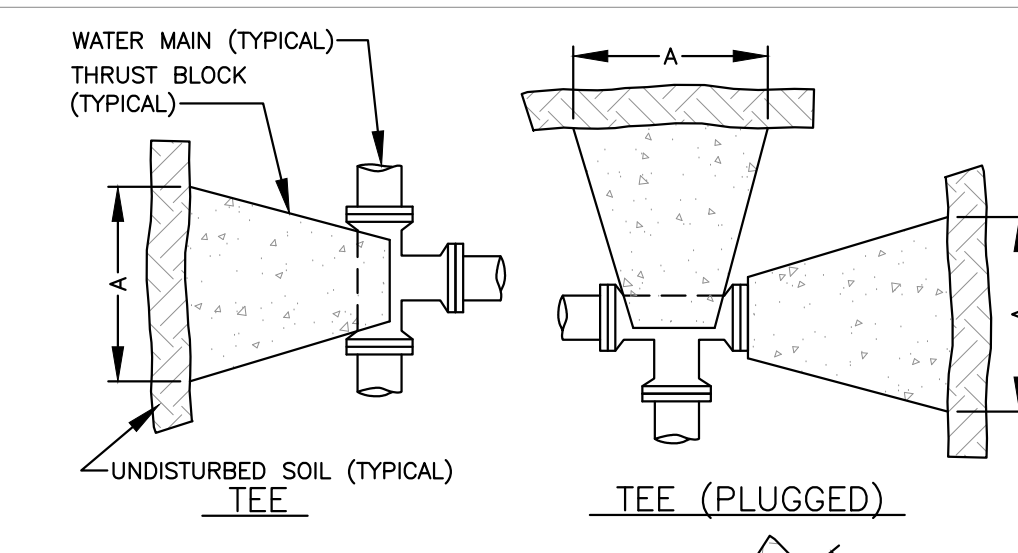
1. ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH "BEST MANAGEMENT PRACTICES MANUAL" BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN A CUT SECTION, I.E. THERE SHALL BE NO EARTH FILL ALONG THE DOWNSTREAM EDGE.
3. ALL LEVEL SPREADERS SHALL BE ALIGNED PARALLEL TO THE EXISTING CONTOURS.
4. THE ENTRANCE TO THE LEVEL SPREADER SHALL HAVE A MAXIMUM GRADE OF 1.0%.
5. THE LEVEL SPREADER SHALL HAVE A LONGITUDINAL GRADE OF 0.0%.



TYPICAL LEVEL SPREADER
NOT TO SCALE



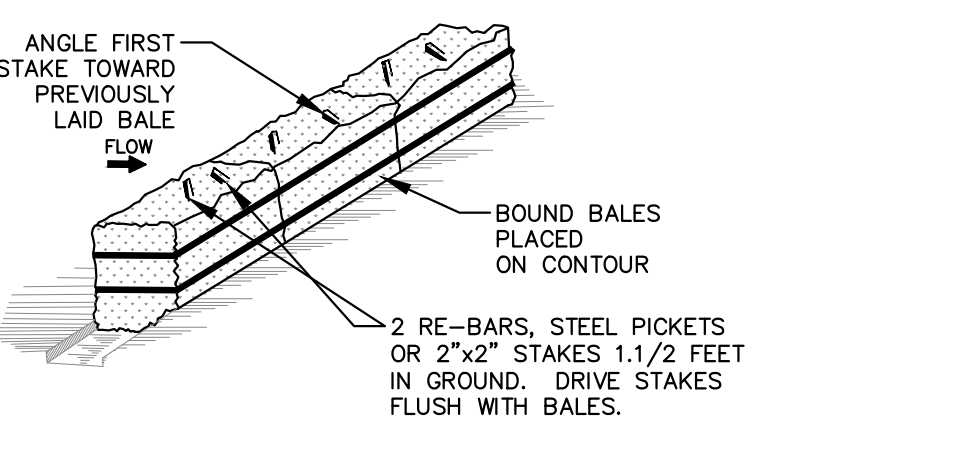
TYPICAL DITCH CROSS SECTION
NOT TO SCALE



THRUST BLOCK SIZE CHART (FITTINGS UP TO 10")					THRUST BLOCK SIZE CHART (FITTINGS 12" TO 16")				
SOIL TYPE	A	B	A	B	SOIL TYPE	A	B	A	B
SOFT CLAY	48"	24"	48"	24"	SOFT CLAY	60"	36"	72"	36"
SAND	24"	24"	24"	24"	SAND	36"	30"	48"	30"
GRAVEL	24"	18"	24"	18"	GRAVEL	30"	24"	40"	24"

- NOTES:**
1. CONCRETE FOR ALL THRUST BLOCKS TO BE MINIMUM 3,000 PSI AFTER 28 DAYS, TYPE I CEMENT, 3/4" STONE.
 2. WHERE POSSIBLE, CONSTRUCT THRUST BLOCKS AGAINST UNDISTURBED SOIL. WHERE NOT POSSIBLE, PLACE 90% STANDARD PROCTOR DENSITY, COMPACTED FILL BETWEEN THE THRUST BLOCK AND THE UNDISTURBED SOIL.
 3. WRAP FITTINGS WITH POLYETHYLENE PRIOR TO CONSTRUCTING THRUST BLOCKS. NO JOINTS SHALL BE COVERED WITH CONCRETE.
 4. THRUST BLOCK DIMENSIONS ARE BASED ON A MAXIMUM WATER MAIN PRESSURE OF 150 PSI.

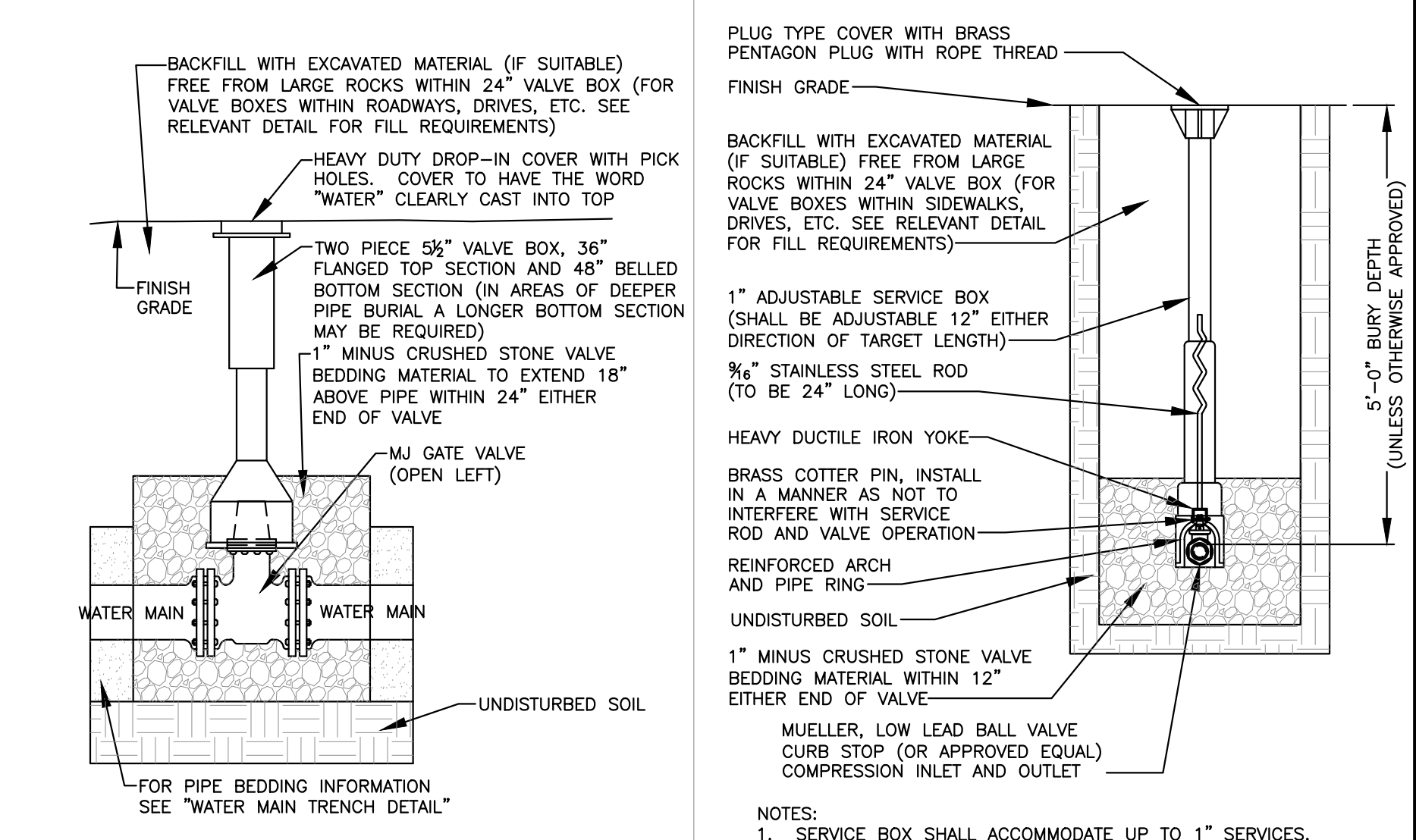
THRUST BLOCK DETAIL
NOT TO SCALE



ANCHORING DETAIL
CONSTRUCTION SPECIFICATIONS

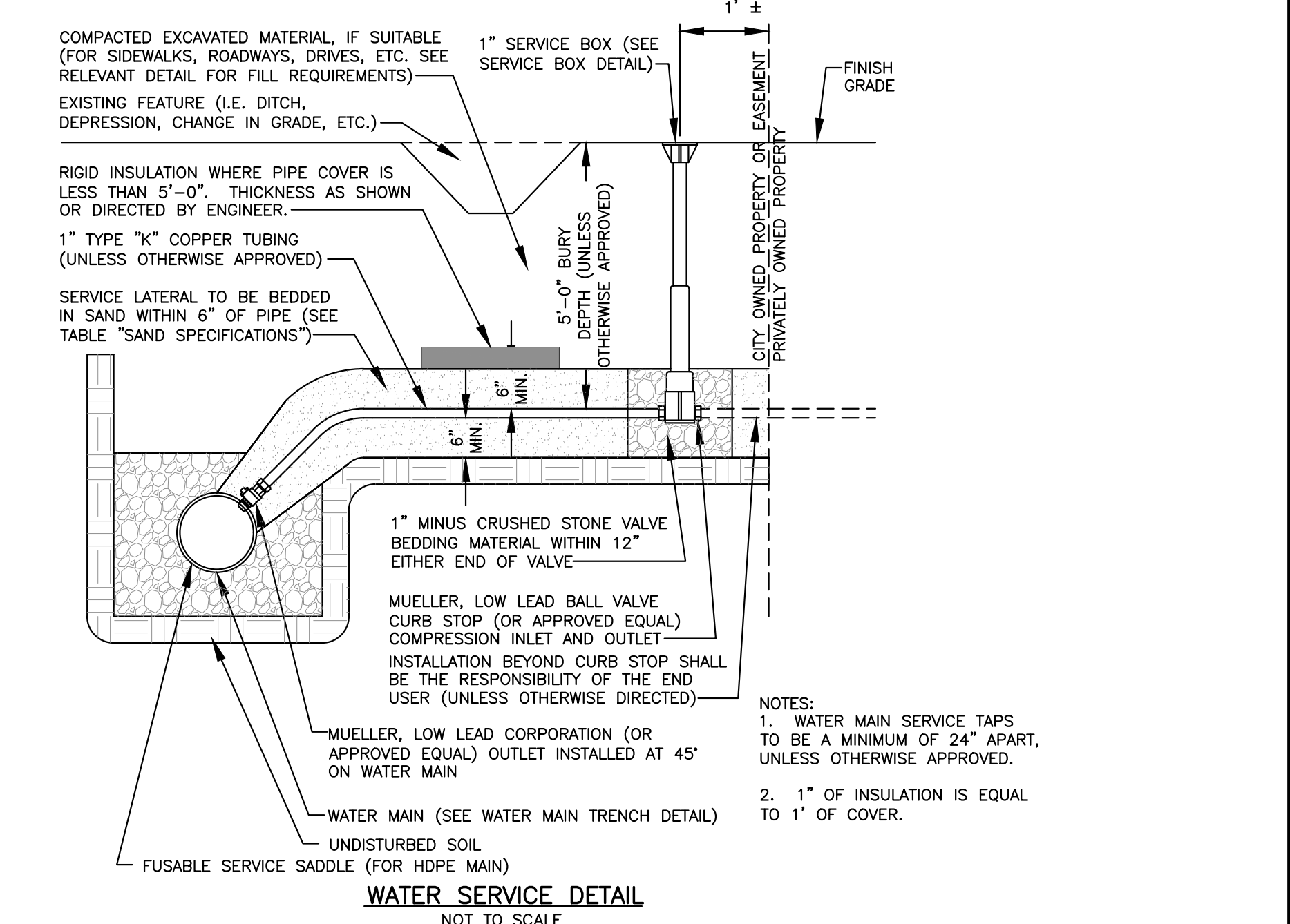
1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECT FREQUENTLY AND REPAIR OR REPLACE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAYBALE DETAIL
NOT TO SCALE

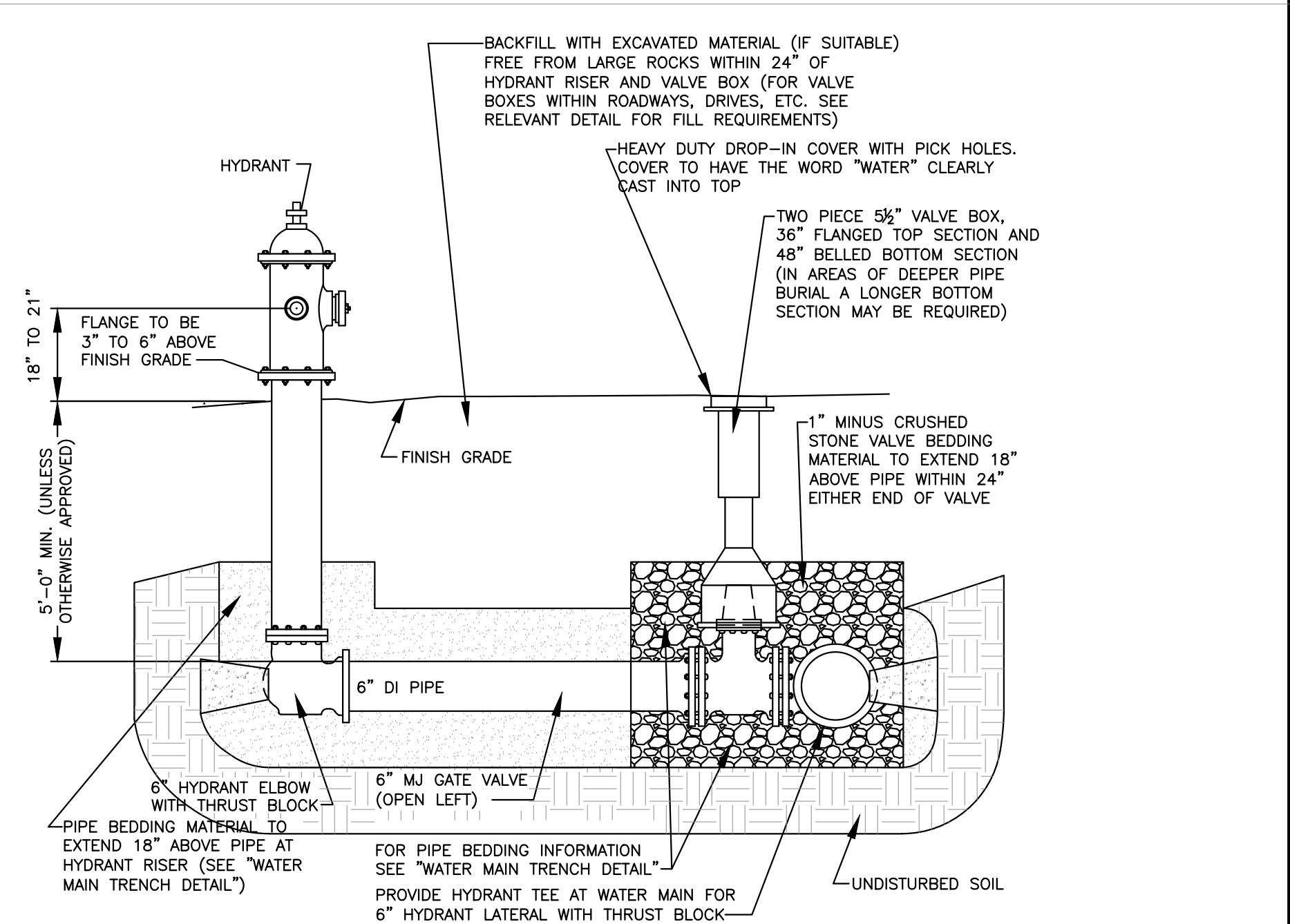


WATER MAIN VALVE AND VALVE BOX DETAIL
NOT TO SCALE

WATER MAIN SERVICE CURB STOP DETAIL
NOT TO SCALE



WATER SERVICE DETAIL
NOT TO SCALE



HYDRANT LATERAL DETAIL
NOT TO SCALE

NOT FOR CONSTRUCTION

DETAILS

Project No. 85716E

Project Location: BIG LAKE DEVELOPMENT, LLC BIG MOOSE RESORT, BIG MOOSE TOWNSHIP, MAINE

Scale: AS SHOWN

Drawn By: FABIANO

Checked By: FABIANO

Project Description: SURVEYING

Professional Engineer: DUBE-O'NEAL, NO. 13020, LICENSED PROFESSIONAL ENGINEER, 5/22/2021

Permit No. PERMIT

Sheet No. D-1.01

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GENERAL NOTES & CONSTRUCTION SPECIFICATIONS

- FINAL STABILIZATION WILL BE DONE WITHIN 7 DAYS OF FINAL GRADIENT OR WITHIN 30 DAYS OF INITIAL SOIL DISTURBANCE.
- EVERY WEEK AND AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF ONE-HALF INCH OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL OF SEDIMENT FROM SILT FENCES IF SOIL ACCUMULATES TO A DEPTH OF ONE-HALF THE FABRIC HEIGHT AND REMOVAL OF EXCESS ACCUMULATED SEDIMENT FROM DETENTION BASINS (IF APPLICABLE).
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "MAINE EROSION & SEDIMENT CONTROL: BEST MANAGEMENT PRACTICES," BY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES, INCLUDING MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL.
- SEE DETAILS FOR SLOPE STABILIZATION OPTIONS.

CONSTRUCTION SEQUENCE

- INSTALL EROSION CONTROL MEASURES DOWN-GRADIENT OF ALL CONSTRUCTION ACTIVITY AREAS.
- PERFORM COMMON EXCAVATION AND SUBGRADE PREPARATION FOR CONSTRUCTION.
- CONSTRUCT ROAD, UTILITIES, LANDSCAPED AREAS AND INSTALL STORMWATER TREATMENT STRUCTURES.
- SPREAD LOAM AND SEED ON OTHER AREAS TO BE REVEGETATED.
- CLEAN UP SITE.
- REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES UPON FINAL STABILIZATION OF ALL GRADES AND AREAS OF PREVIOUSLY OPEN SOIL. EROSION CONTROL MIX BERMS MAY BE LEFT IN PLACE.

CLEARING OF VEGETATION AND STOCKPIILING OF TOPSOIL

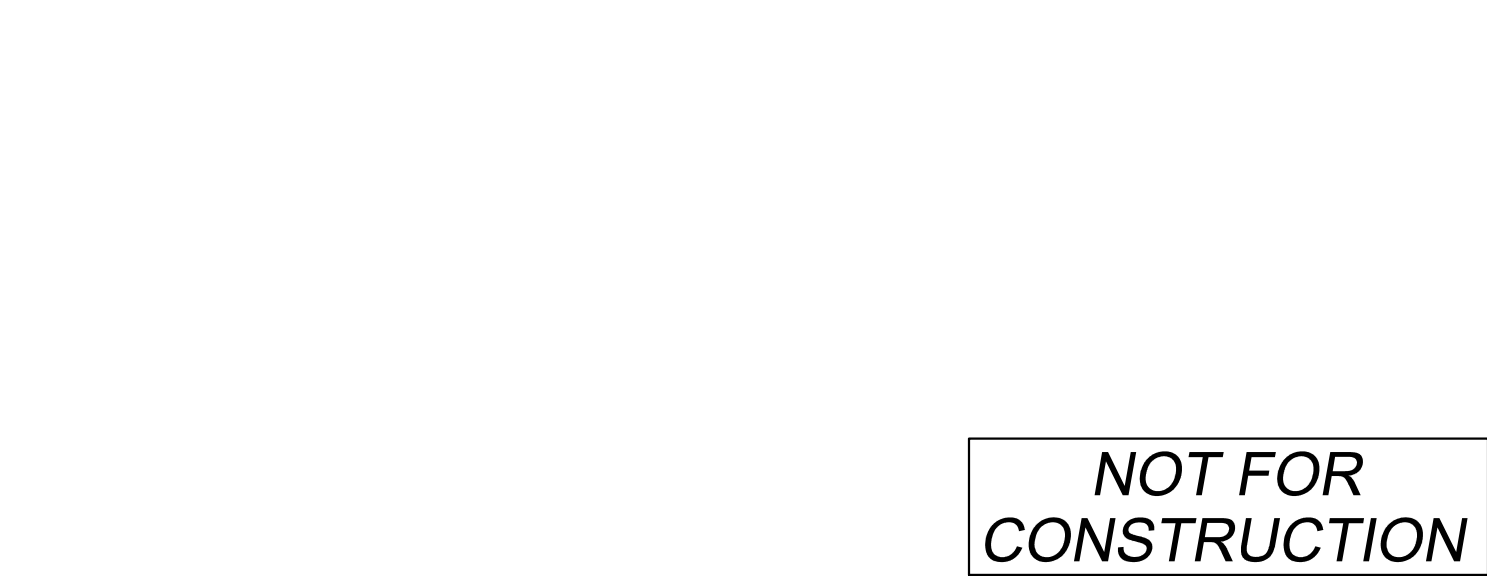
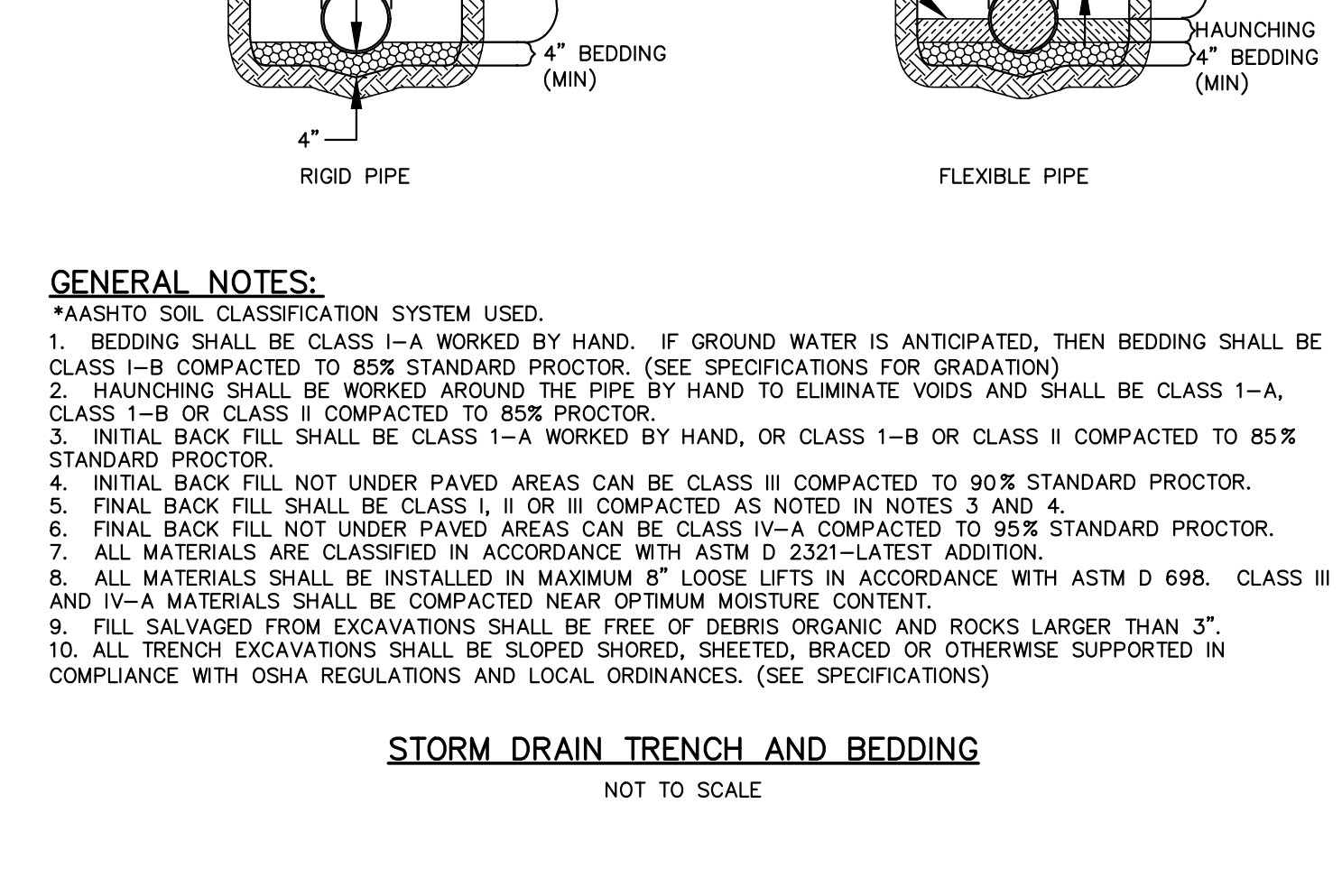
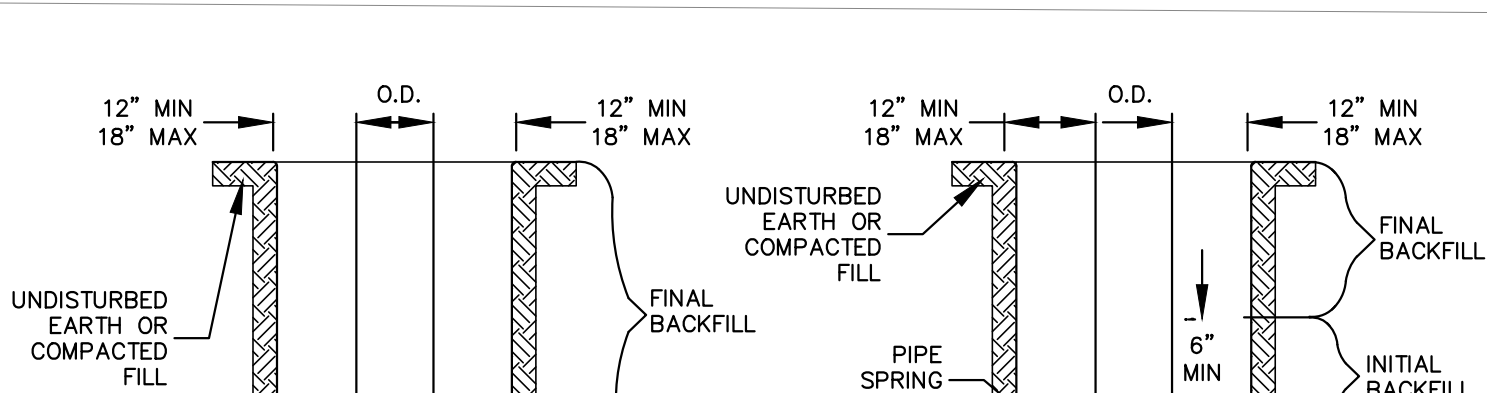
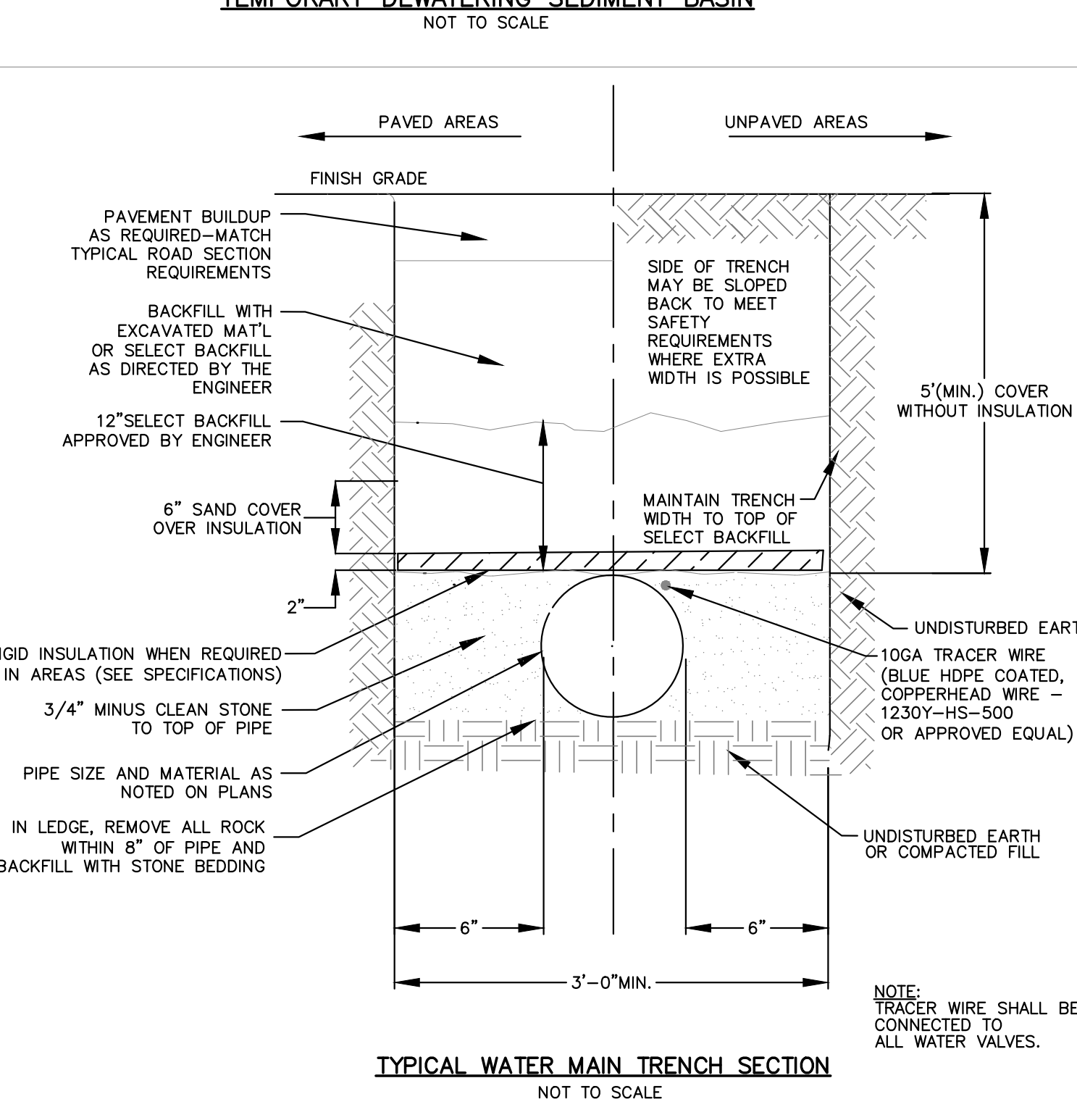
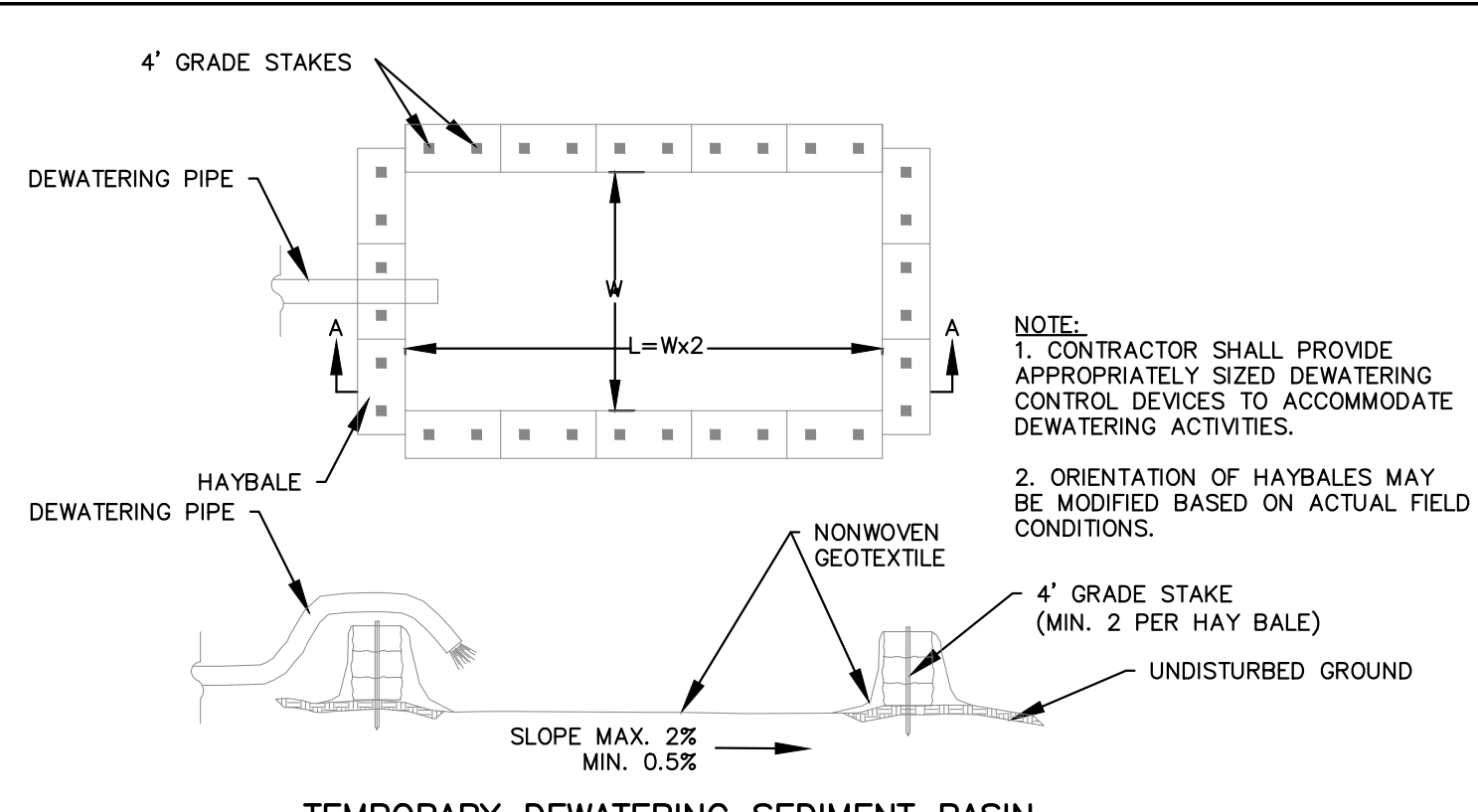
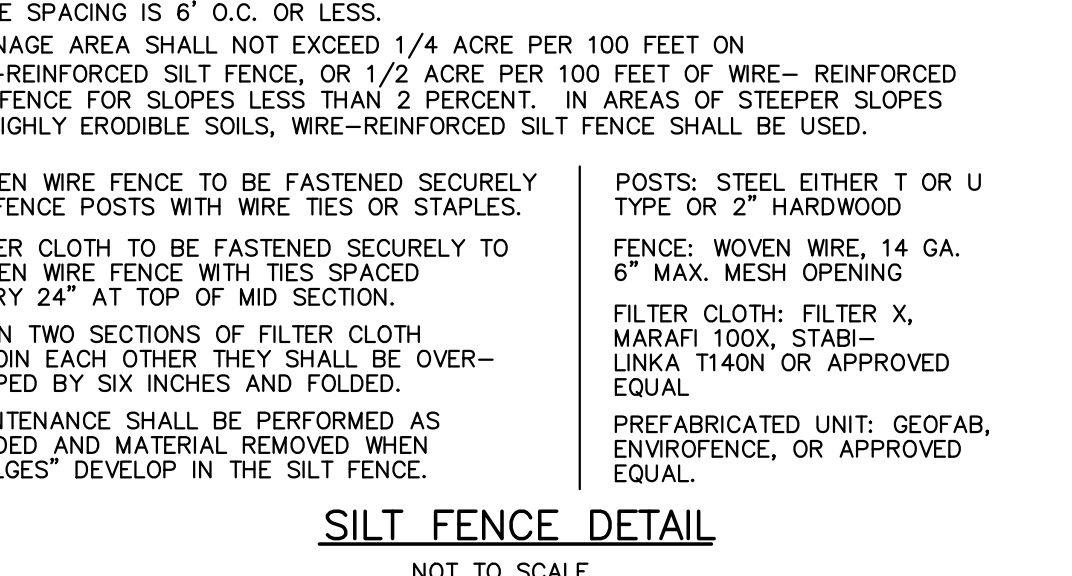
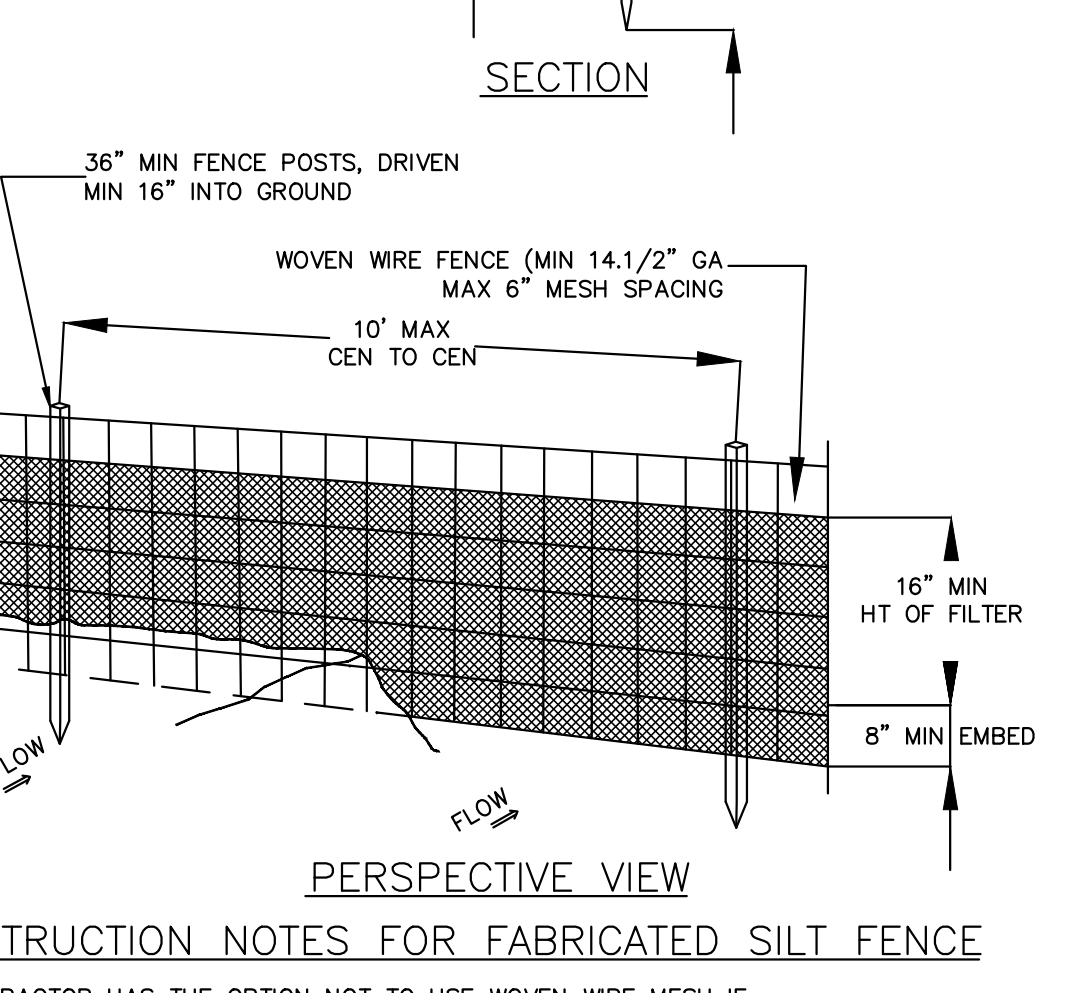
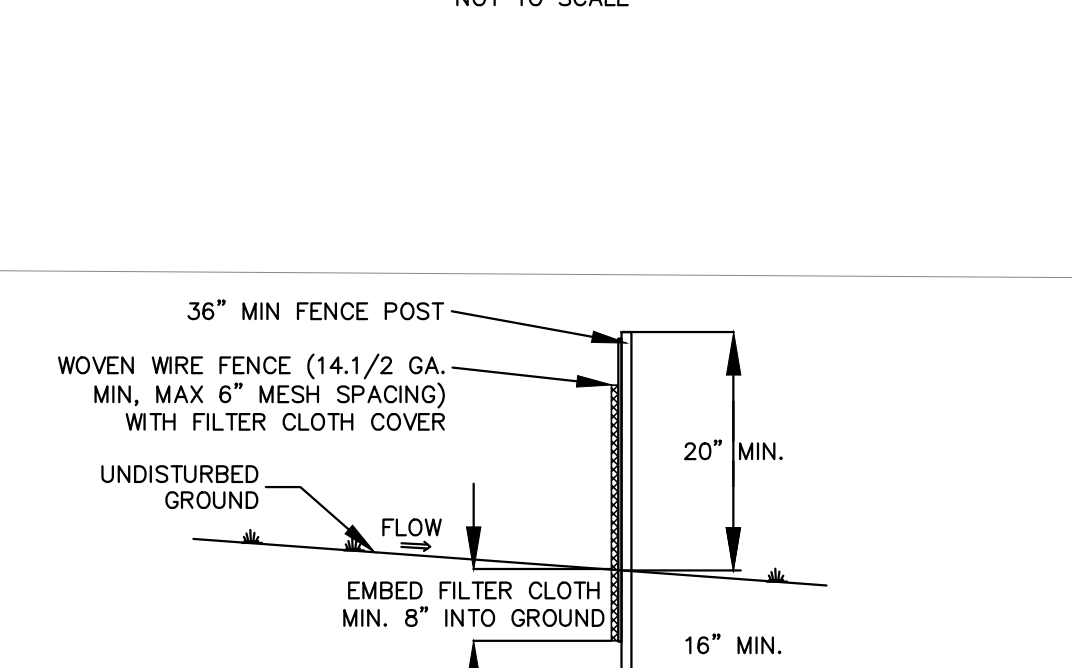
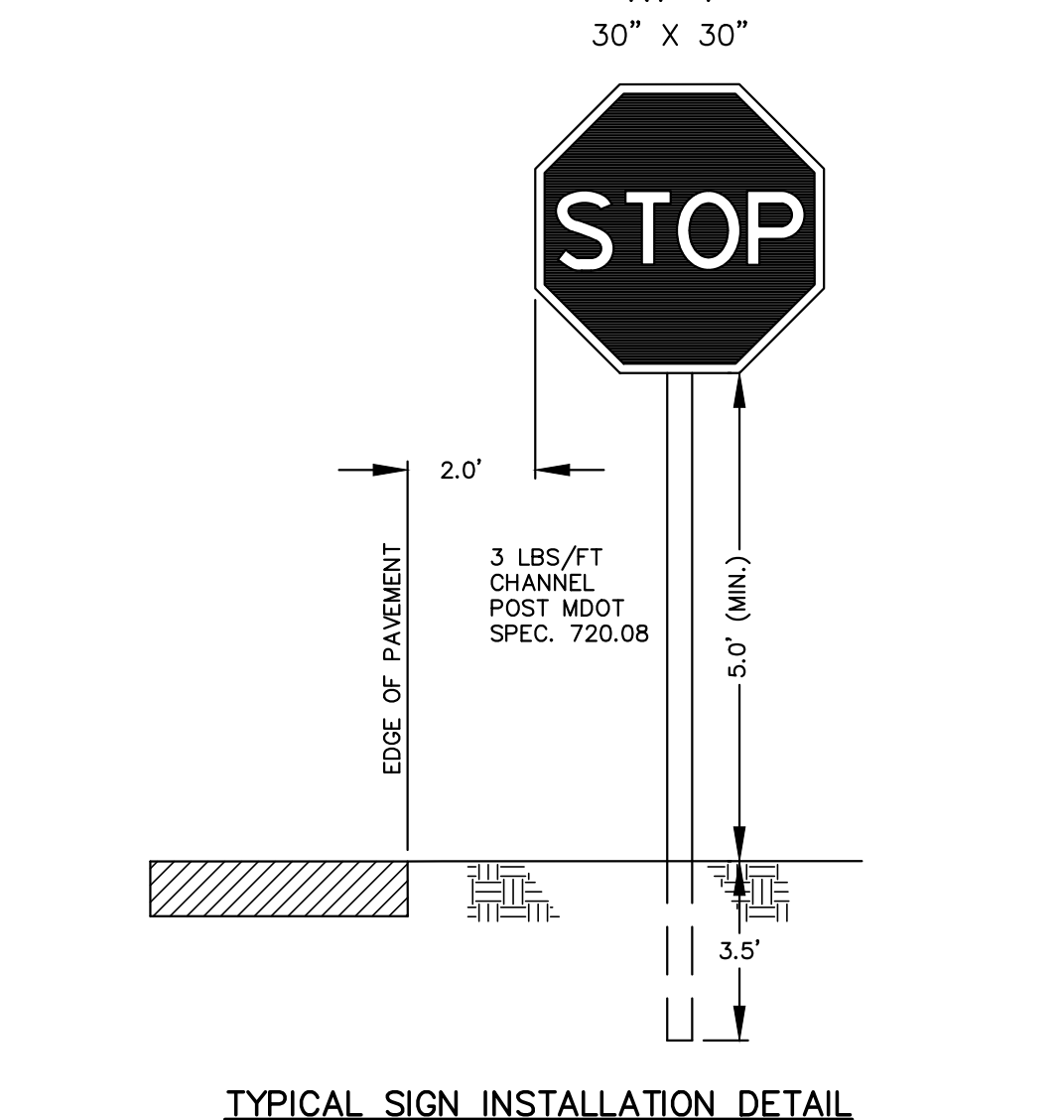
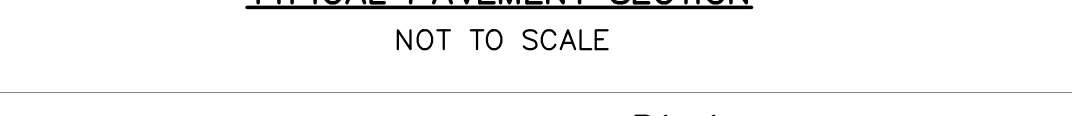
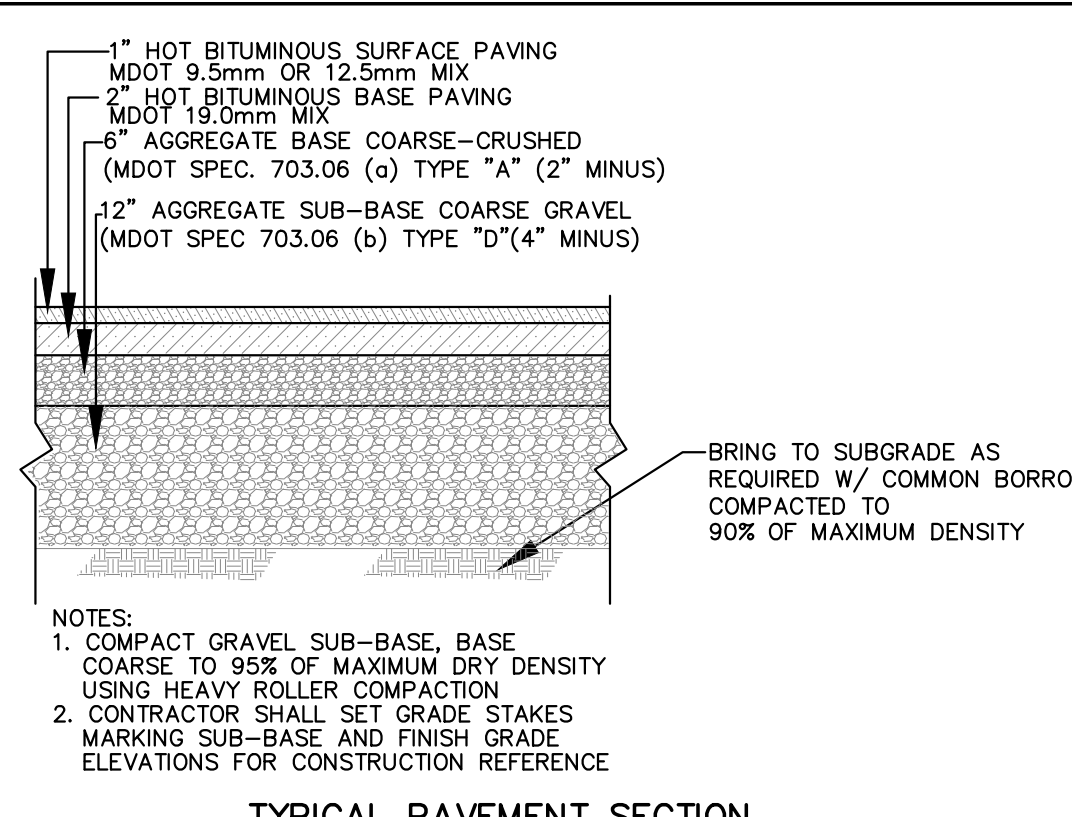
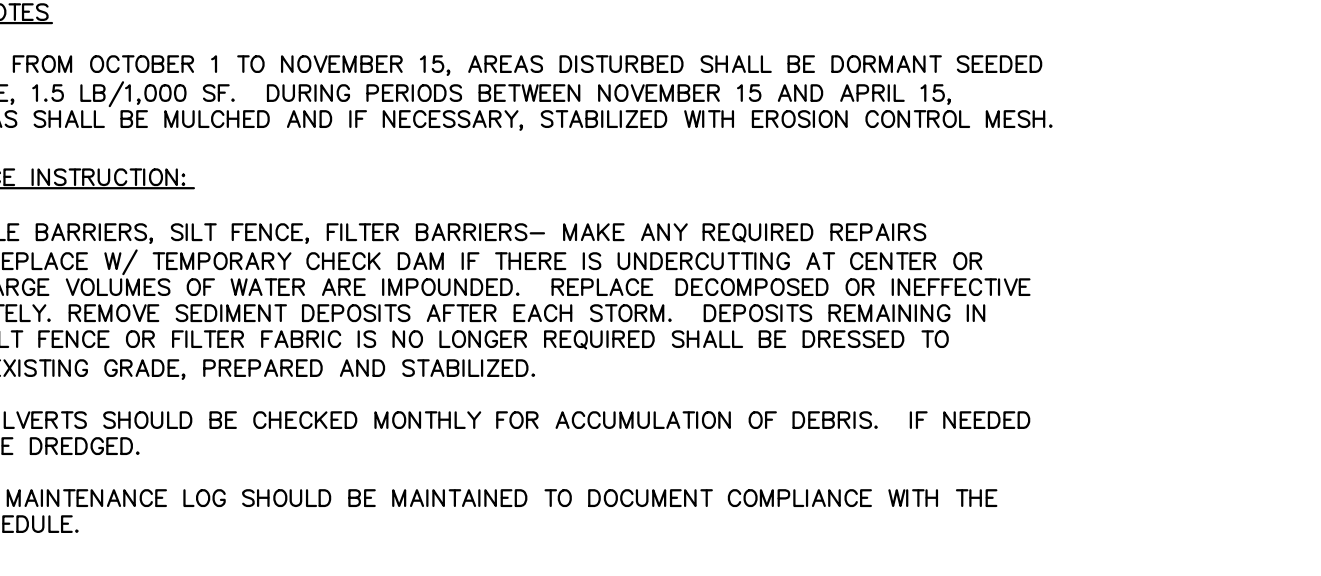
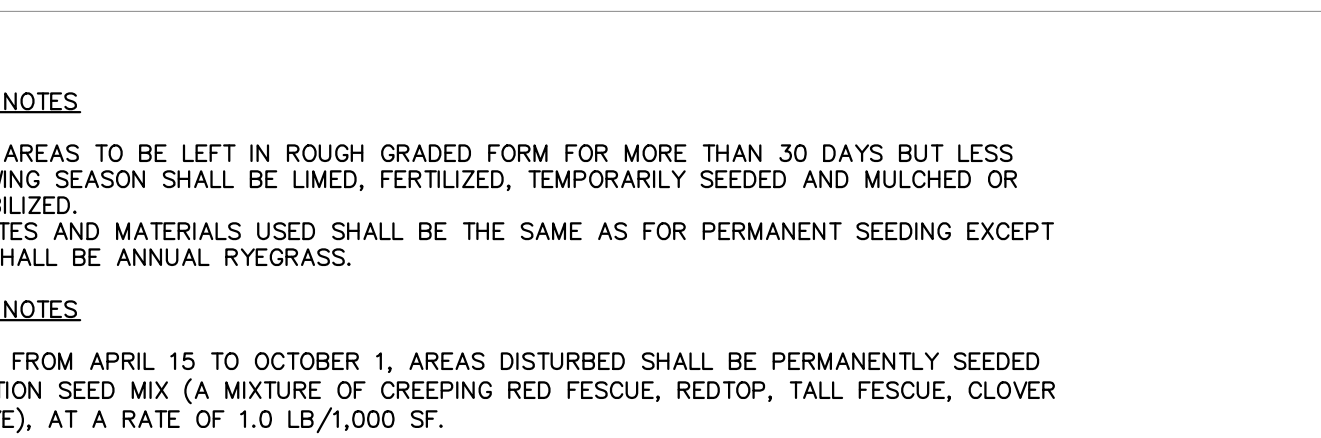
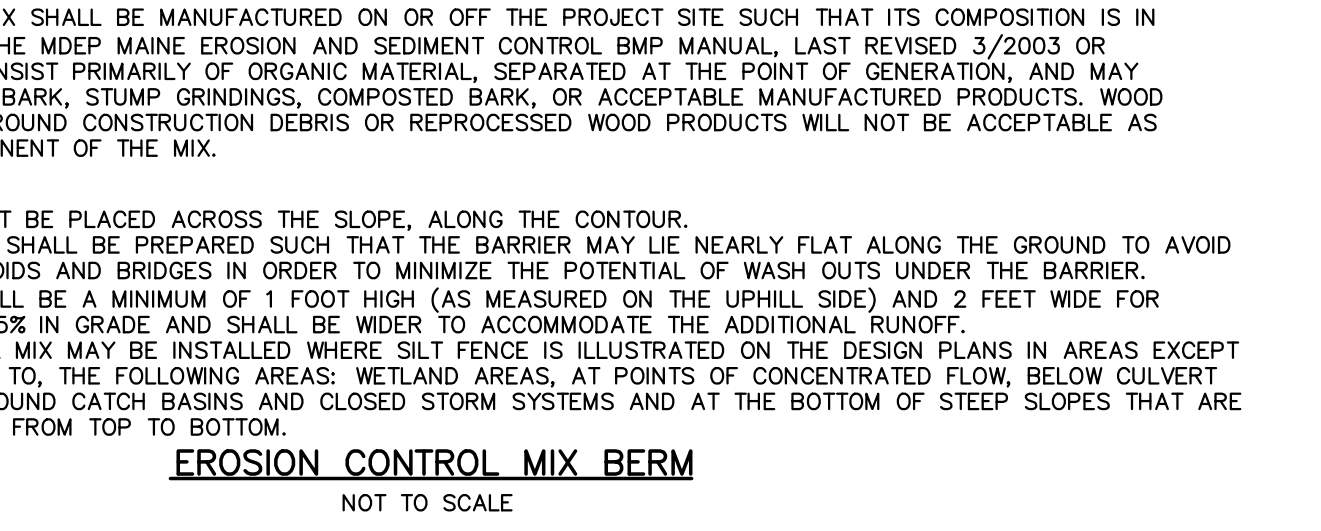
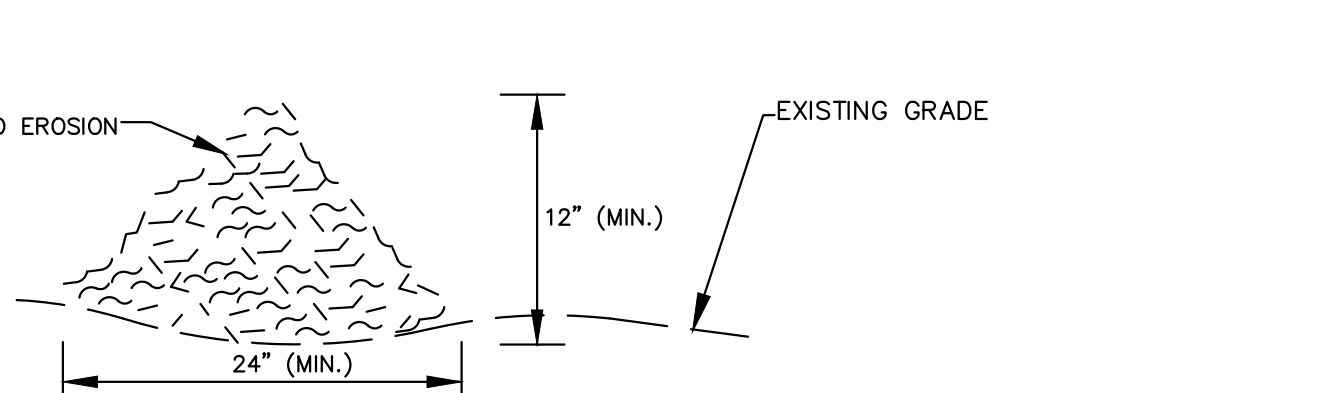
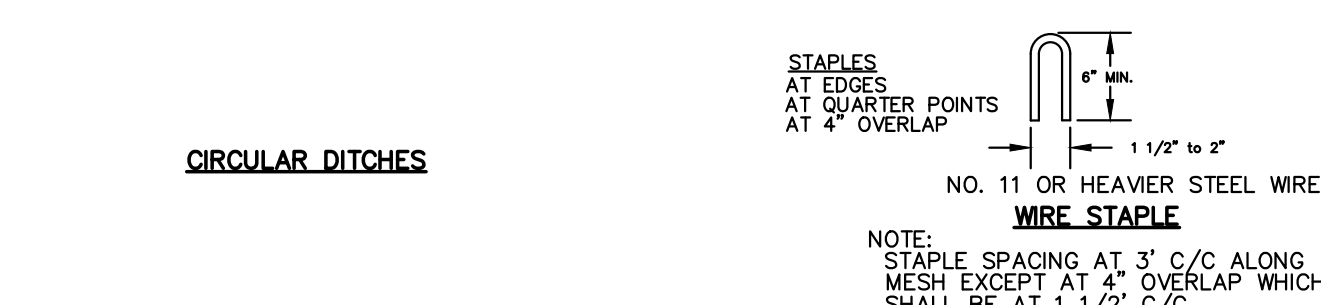
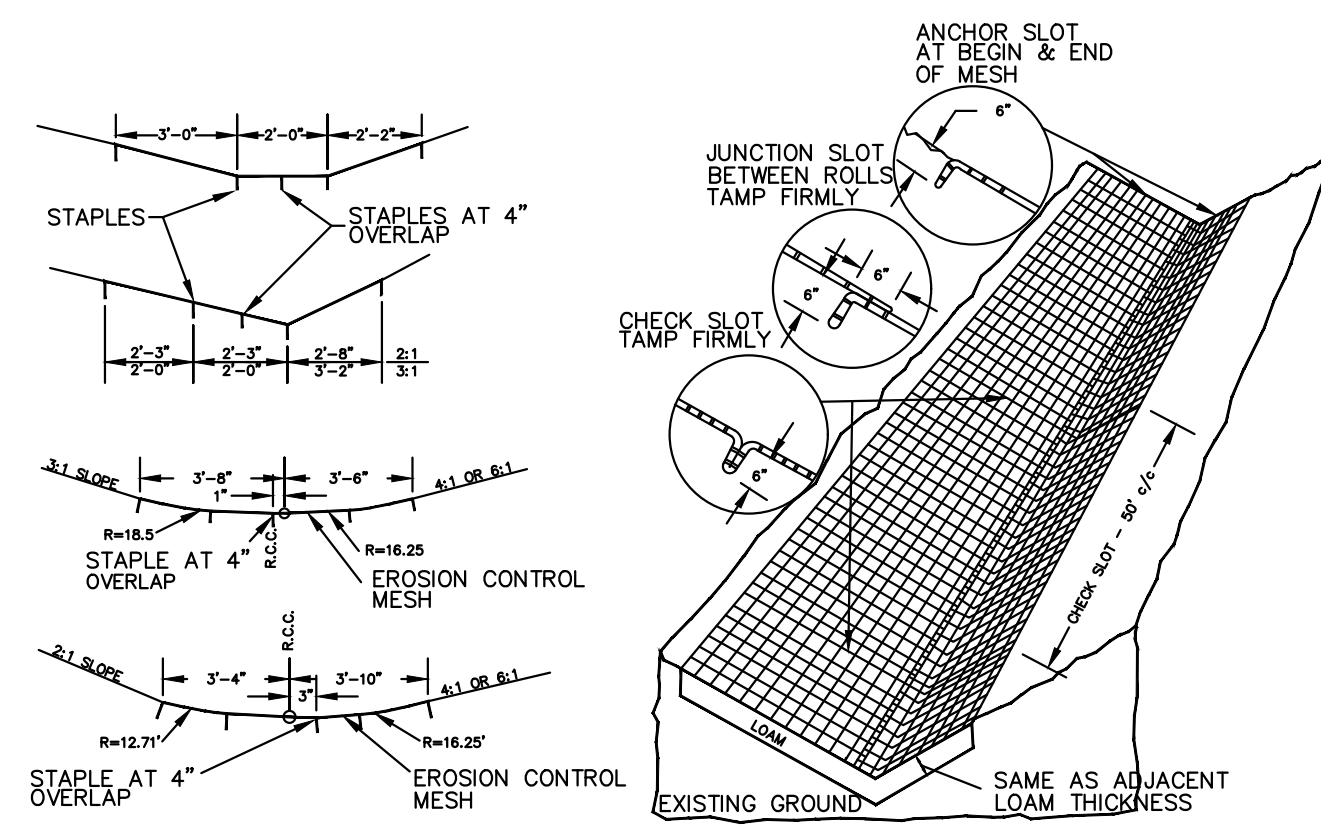
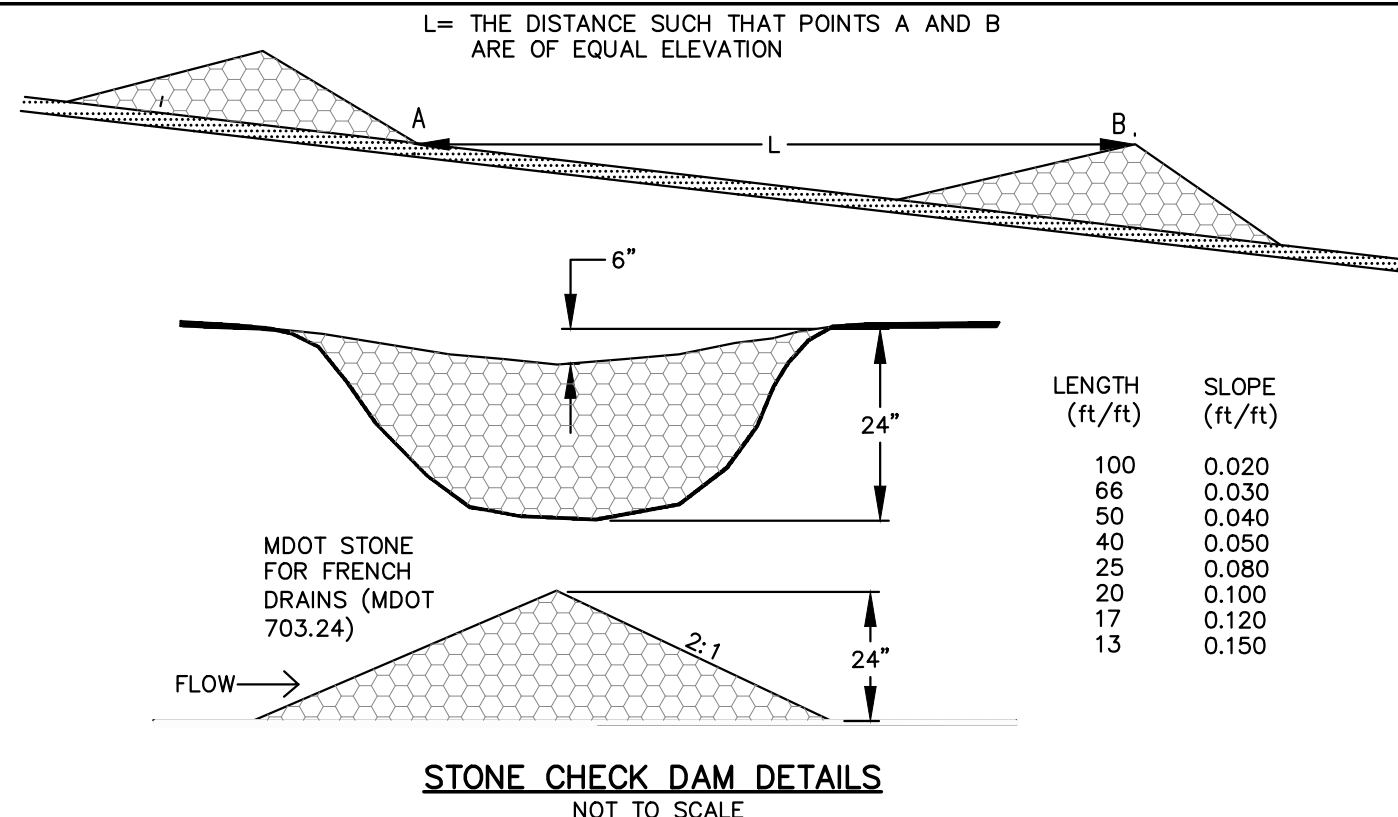
- INSTALL EROSION CONTROL MEASURES PRIOR TO SOIL DISTURBANCE.
- STUMPS TO BE REMOVED FROM LOCATIONS WHERE STRUCTURES ARE TO BE INSTALLED/CONSTRUCTED. STUMPS TO BE GROUND ON-SITE BY THE ROAD CONTRACTOR & USED AS AN EPSIC MEASURE.
- LOW GROWING VEGETATION TO REMAIN, WHERE FEASIBLE TO PROVIDE SOIL STABILITY.
- EXISTING TOPSOIL IN AREAS OF DEVELOPMENT TO BE STOCKPILED ON-SITE FOR USE IN FINAL STABILIZATION.
- MULTIPLE LAYERS OF PROTECTION INCLUDING SILT FENCE AND EROSION CONTROL MIX BERM SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE TO PROTECT DOWN STREAM RESOURCES. CONTRACTOR SHALL INSTALL ALL CONTROL MEASURES AS DIRECTED BY ENGINEER AT STOCKPILE LOCATIONS.

CLEAN-UP & FINAL STABILIZATION

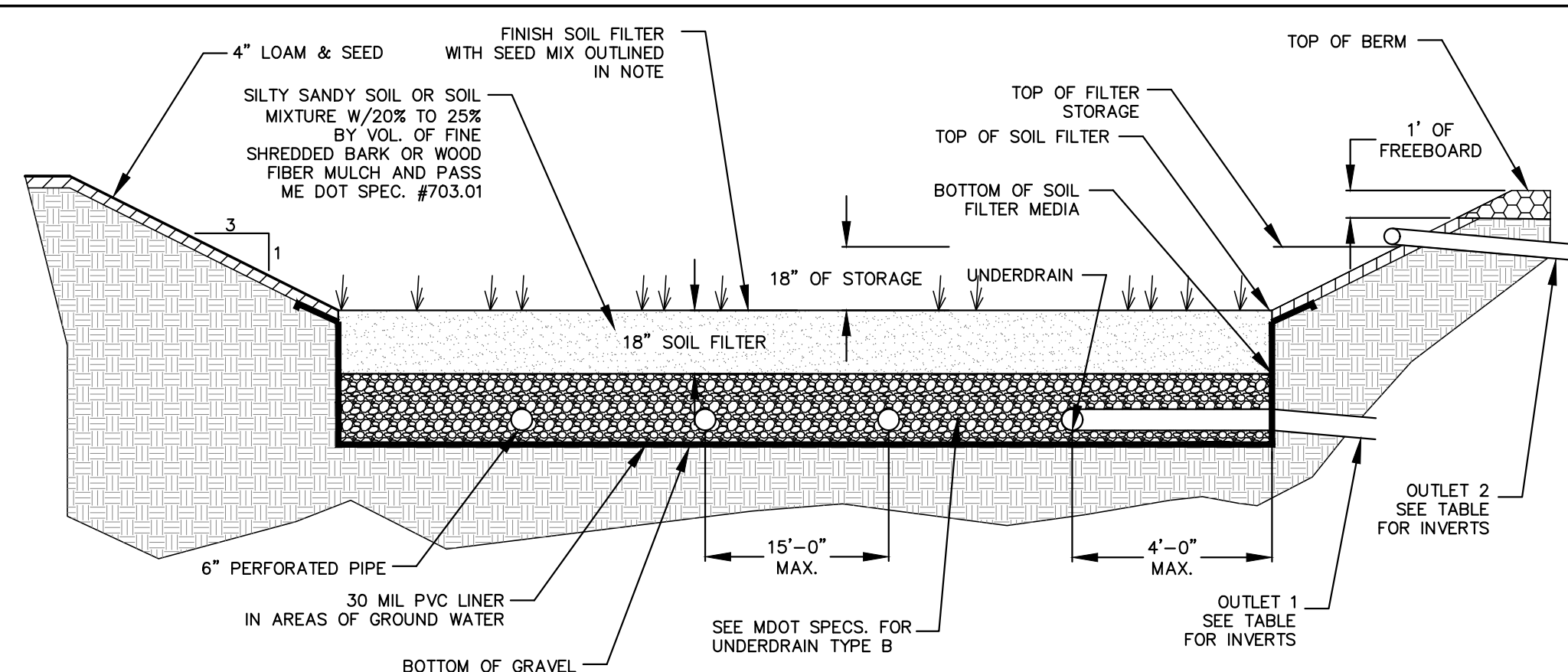
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL WORK AREAS TO BE CLEARED OF CONSTRUCTION DEBRIS & OTHER MATERIALS.
- SPECIFIC CLEAN-UP REQUIREMENTS TO INVOLVE: REMOVAL OF ALL TEMPORARY WORK TRAILERS; REMOVAL OF MATERIAL & EQUIPMENT; DISPOSAL OF ALL RUBBISH RESULTING FROM CLEARING, CONSTRUCTION, & INSTALLATION; ROUGH GRADING & STABILIZATION OF EMBANKMENTS MADE FOR CONSTRUCTION PURPOSES; FILLING OF ANY EXCAVATIONS; & REPAIRING RUTS IN ACCESS ROADS.
- FINAL STABILIZATION OF ALL AREAS OF DISTURBED SOIL, WHERE FINAL GRADE HAS BEEN ACHIEVED, INVOLVE RESPREADING OF STOCKPILED TOPSOIL MATERIAL & SEEDING, MULCHING WITH WOODWASTE MULCH, OR APPLICATION OF OTHER APPROVED STABILIZATION METHODS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE PROJECTS PERMITS.

WINTER CONSTRUCTION NOTES

- THE WINTER CONSTRUCTION PERIOD SHALL BE FROM NOVEMBER 1 THROUGH APRIL 15.
- WHERE FEASIBLE, A MINIMUM 25-FT BUFFER SHALL BE MAINTAINED BETWEEN SILT FENCE OR OTHER PERIMETER CONTROLS TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.
- WIRE REINFORCED SILT FENCE SHALL BE UTILIZED IN ALL AREAS (SEE DETAILS).
- DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- ACCEPTABLE OVER-WINTER STABILIZATION SHALL CONSIST OF VEGETATION (MIN. 75% MATURE), MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP OR GRAVEL ROAD BASE.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT REQUIRE EARTH DISTURBANCE (e.g., CONSTRUCTION FENCE AND SILT FENCE) SHALL BE INSTALLED PRIOR TO THE GROUND FREEZING. DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS.
- FROM NOVEMBER 1 TO APRIL 15, MULCH SHALL BE INSTALLED AT DOUBLE THE NORMAL RATE. NETTING OR OTHER MEANS APPROVED BY THE ENGINEER SHALL BE USED TO MINIMIZE WIND EROSION OF MULCHING.
- PRIOR TO STABILIZATION, ICE AND SNOW SHALL BE REMOVED TO LESS THAN 1-IN.
- IF VEHICLE TRAFFIC IS ANTICIPATED AROUND STRUCTURES UNDER CONSTRUCTION, THE AREA SHALL BE STABILIZED WITH STONE.
- EXCAVATED FROZEN SOILS SHALL BE STOCKPILED IN LEVEL AREAS AND SHALL NOT BE USED UNTIL THAWED. STOCKPILES SHALL BE ENCRICLED WITH EROSION CONTROL MIX BERMS AS NECESSARY.
- EXCAVATION OF SOILS IN SHALLOW GROUNDWATER AREAS SHALL BE MINIMIZED IF AT ALL POSSIBLE DURING WINTER, AND LIMITED TO ONLY THOSE AREAS THAT CAN BE STABILIZED DURING THE SAME DAY.
- TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - IF NO PRECIPITATION IS FORECAST WITHIN 24 HOURS AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS BUILDING FOUNDATIONS AND OPEN UTILITY TRENCHES.
- THE ENGINEER MAY MAKE NECESSARY ADJUSTMENTS TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND ASSOCIATED EROSION PREVENTION AND SEDIMENT CONTROL MEASURES (e.g., CONSTRUCTION FENCE AND SILT FENCE) TO ACCOMMODATE ANTICIPATED SNOW STORAGE AREAS.
- AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCE, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL COVER. DURING WINTER CONSTRUCTION A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. NATURAL RESOURCE CROSSINGS SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.
- STOCKPILES OF SOIL SHALL BE MULCHED FOR OVER-WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX.
- MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN THE SPRING, INSPECT AND REPAIR ANY DAMAGES OR BARE SPOTS.
- WINTER CONSTRUCTION SHALL BE IN ACCORDANCE WITH REGULATORY PERMIT. PERMIT REQUIREMENTS SHALL SUPERCEDE ANY DISCREPANCY IN ABOVE LISTED NOTES.



Drawn By	FABIAJO
Checked By	FABIAJO
Date	03/22/2021
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ME DOT Specifications for Aggregate (MDOT #703.01)

Sieve Size	% by Weight
#3	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#60	10-30
#100	2-10
#200	0-5

TYPICAL UNDERDRAIN SOIL FILTER

NOT TO SCALE

NOTE: UNDERDRAIN PIPE DIAMETER SHALL BE 6" UNLESS OTHERWISE NOTED.

SOIL FILTER MEDIA TO MEET THE LATEST MDEP SPECS FOUND IN THE MOST CURRENT VERSION OF THE BMP MANUAL.

THE UNDERDRAINED SOIL FILTER MUST BE PLANTED WITH A SPECIES TOLERANT OF FREQUENT INUNDATION SUCH AS A NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AS AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MA, CONTAINING THE FOLLOWING:

UPLAND BENTGRASS
 CREEPING BENTGRASS
 FOX SEDGE
 SOFT RUSH
 GREEN BULRUSH
 WOOL GRASS
 GRASS-LEAVED GOLDENROD
 BLUE VERVAIN

VIRGINIA WILD RYE
 CREEPING RED FESCUE
 SWITCH GRASS
 LITTLE BLUESTEM
 BONESET
 SENSITIVE FERN
 BIG BLUESTEM, NIAGRA
 NEW ENGLAND ASTER

APPLIED AT A RATE OF 35 LBS/ACRE. LIGHTLY MULCH WITH CLEAN WEED FREE STRAW TO CONSERVE MOISTURE.

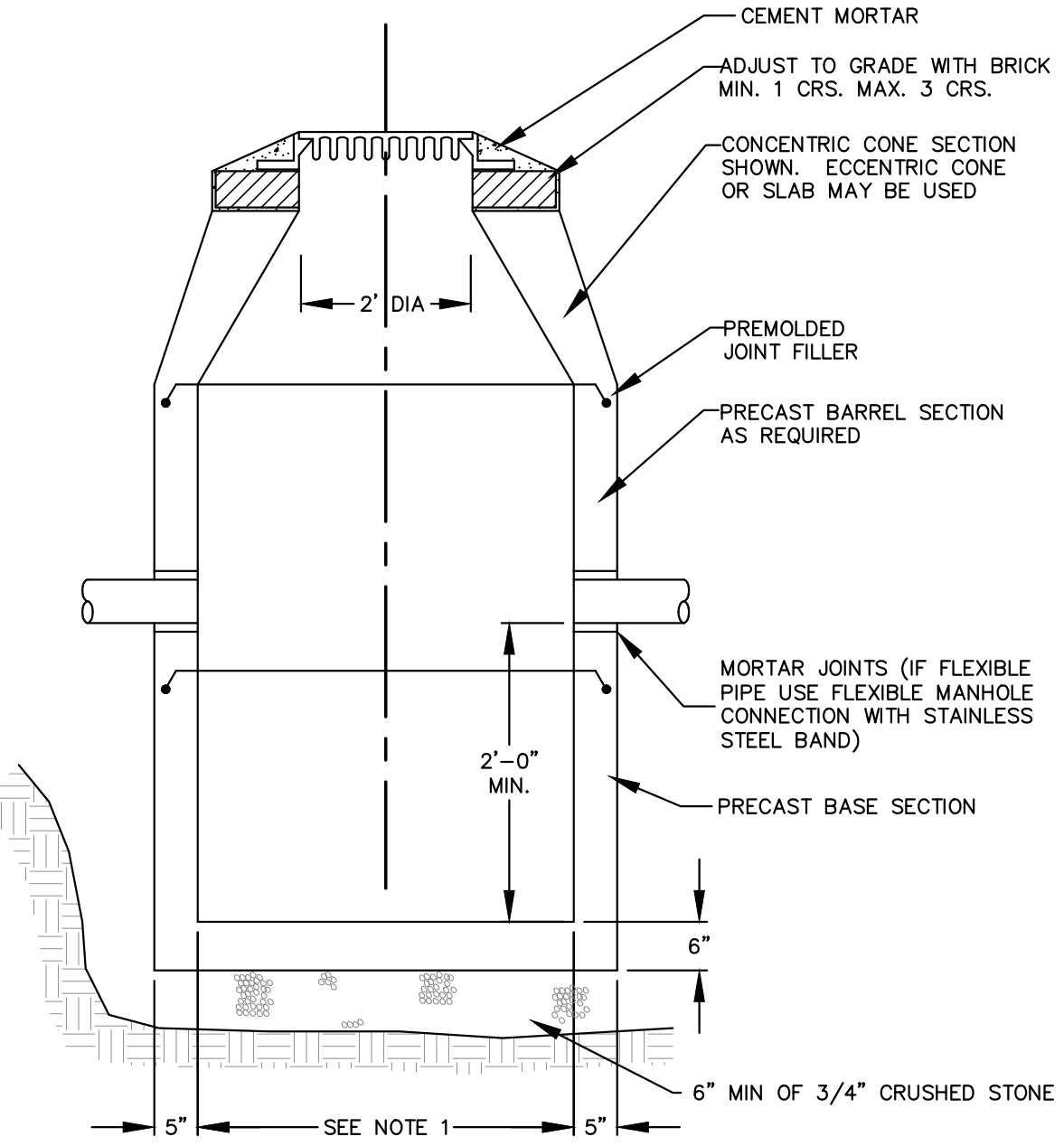
ME DOT Specifications for Underdrain Type B

Sieve Size	% by Weight
1"	90-100
1/2"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5

	TOP OF BERM	TOP OF SPILLWAY ELEV./LENGTH	TOP OF SOIL FILTER	BOTTOM OF SOIL MEDIA	BOTTOM OF GRAVEL	OUTLET 1 (UD) DIA./LENGTH	OUTLET 1 (UD) ELEV. IN/OUT	OUTLET 2 (SD) DIA./LENGTH	OUTLET 2 (SD) ELEV. IN/OUT
USF 1	1482.00	1480.50/25 FT	1477.00	1475.50	1474.33	4"/55 FT	1474.67/1474.00	10"/25 FT	1478.50/1478.25
USF 2	1467.00	1465.25/20 FT	1463.00	1461.50	1460.33	4"/40 FT	1460.67/1460.27	8"/25 FT	1464.50/1464.25

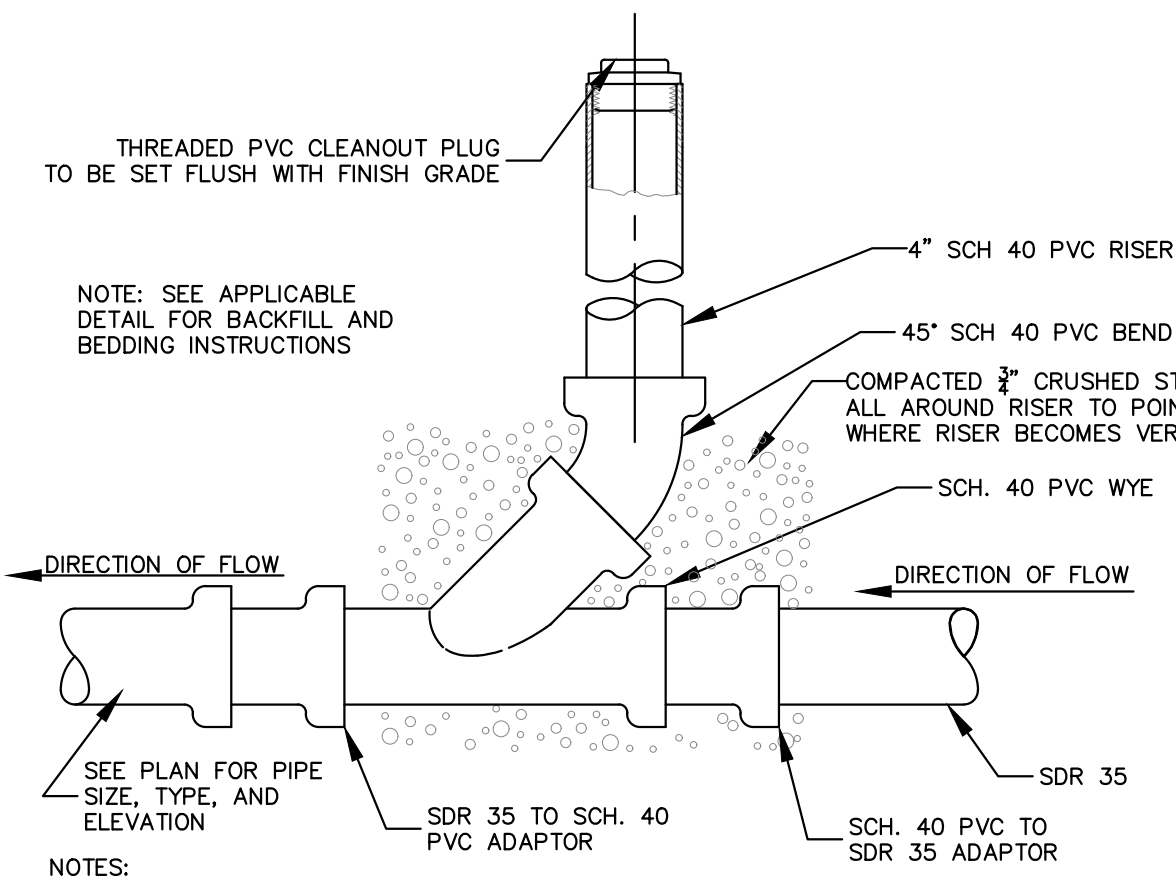
GENERAL NOTES FOR UNDERDRAIN FILTER BASINS:

- CONSTRUCTION SEQUENCE:**
- THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 80% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED.
- COMPACTION OF SOIL FILTER:**
- FILTER SOIL MEDIA AND UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR. THE BED SHOULD BE INSTALLED IN AT LEAST TWO LIFTS OF 9 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.
- CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:**
- AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED.
 - AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA.
 - AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDED. BIO-RETENTION CELLS MUST BE STABILIZED PER THE PROVIDED PLANTING SCHEME AND DENSITY FOR THE CANOPY COVERAGE OF 30 AND 50%.
 - AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND ALL MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY HAVE PASSED DEP SPECIFICATIONS.
- TESTING AND SUBMITTALS:**
- THE CONTRACTOR SHALL IDENTIFY THE LOCATION AND SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:
 - SELECT SAMPLES FOR SAMPLING OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
 - PERFORM A SIEVE ANALYSIS CONFORMING TO ASTM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COURSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING SOIL FILTER MEDIA MIXTURE MUST HAVE 8% TO 12% BY WEIGHT PASSING THE #200 SIEVE, A CLAY CONTENT OF LESS THAN 2% (DETERMINED HYDROMETER GRAIN SIZE ANALYSIS) AND HAVE 10% DRY WEIGHT OF ORGANIC MATTER.
 - PERFORM A PERMEABILITY TEST ON THE SOIL FILTER MEDIA MIXTURE CONFORMING TO ASTM D2434 WITH THE MIXTURE COMPACTED TO 90-92% OF MAXIMUM DRY DENSITY BASED ON ASTM D698.



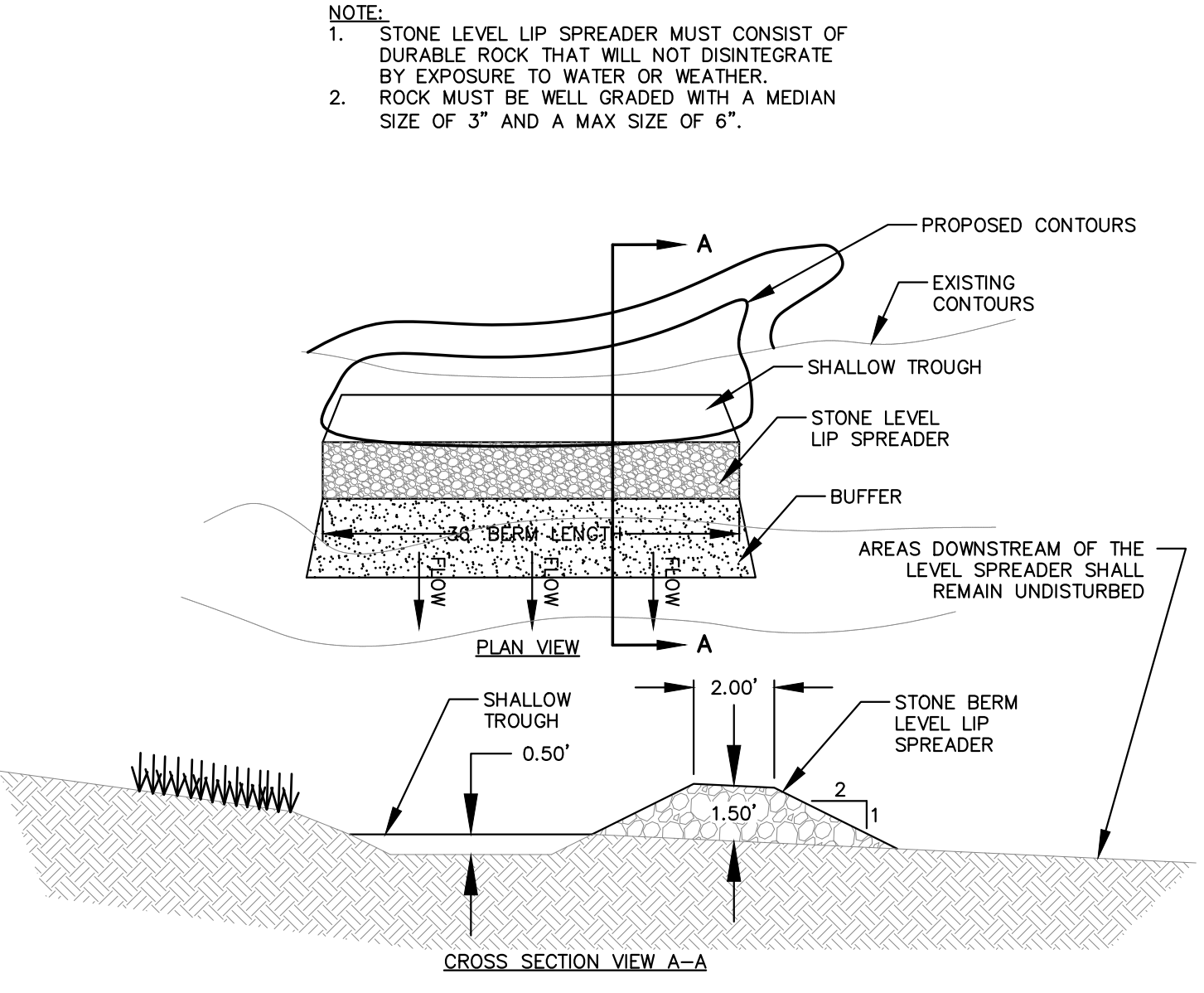
PRECAST CONCRETE CATCH BASIN

- NOTES:
- 4'-0" I.D. TYPICAL. SOME STRUCTURES REQUIRE LARGER I.D., PROVIDE SHOP DRAWINGS (SEE PLANS)
 - DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
 - PIPE SIZES AND INVERTS AS NOTED ON PLANS.
 - FRAME & GRATE TO BE LEBARON OR APPROVED EQUAL
 - GRATE TO BE CASCADE TYPE

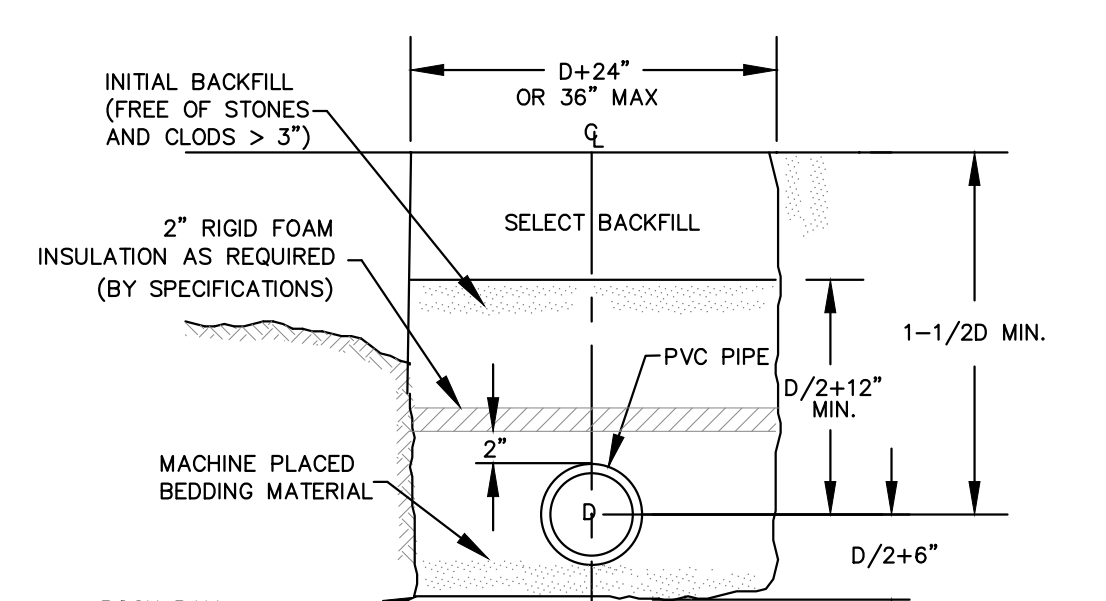


- NOTES:
- PROVIDE 2" THICK BY 4" SQUARE RIGID INSULATION WITH PIPE SLEEVE CUT OUT 12" BELOW FINISH GRADE.
 - CONTRACTOR TO PROVIDE APPROPRIATE TRANSITION FITTINGS BETWEEN SDR 35 AND SCHEDULE 40. CONTRACTOR SHALL SUBMIT AND ENGINEER SHALL APPROVE TRANSITION FITTING PRIOR TO CONSTRUCTION.

SANITARY SEWER CLEANOUT



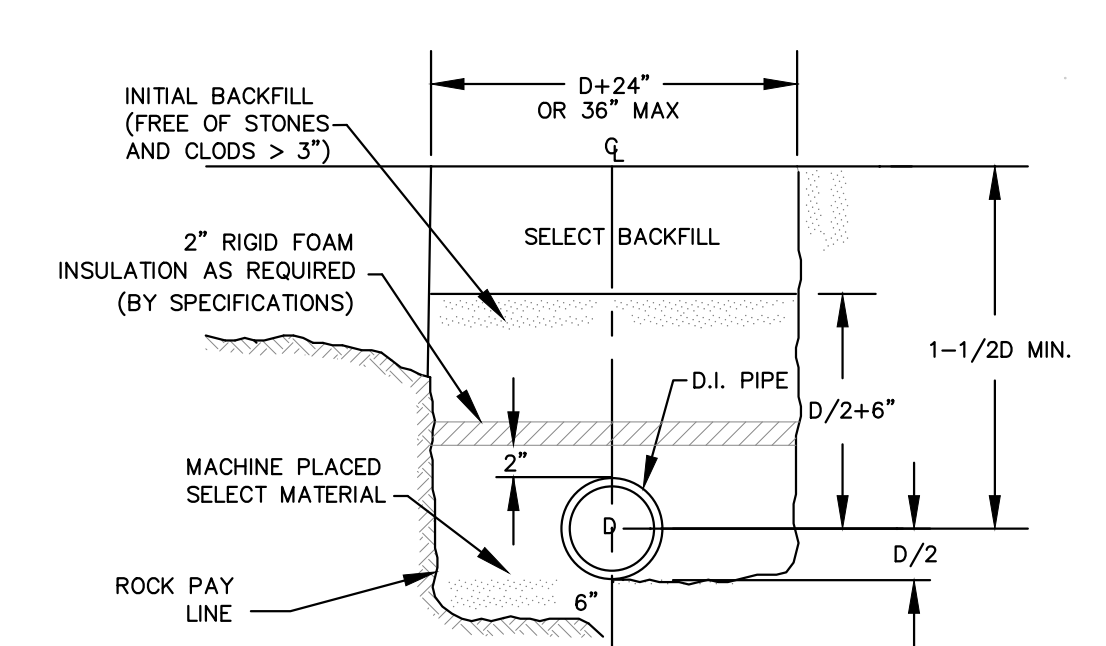
STONED BERMED LEVEL LIP SPREADER DETAIL



TRENCH PAY LIMITS AND BEDDING DETAILS

NOTES:

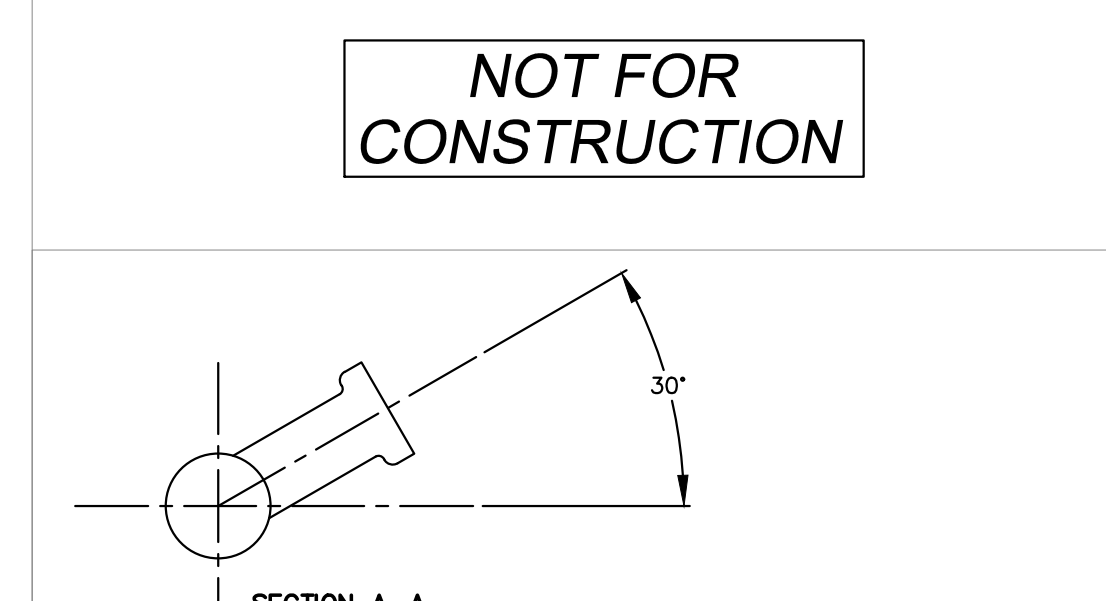
- 6" OF SAND COVER OVER INSULATION WHEN 2" RIGID INSULATION IS REQUIRED.
- PAY LIMIT FOR MANHOLES AND CATCH BASINS SHALL BE DIAMETER + 36"
- PAVEMENT PAY LIMIT SHALL BE 7" MAXIMUM CENTERED ON PIPE.



TRENCH PAY LIMITS AND BEDDING DETAILS

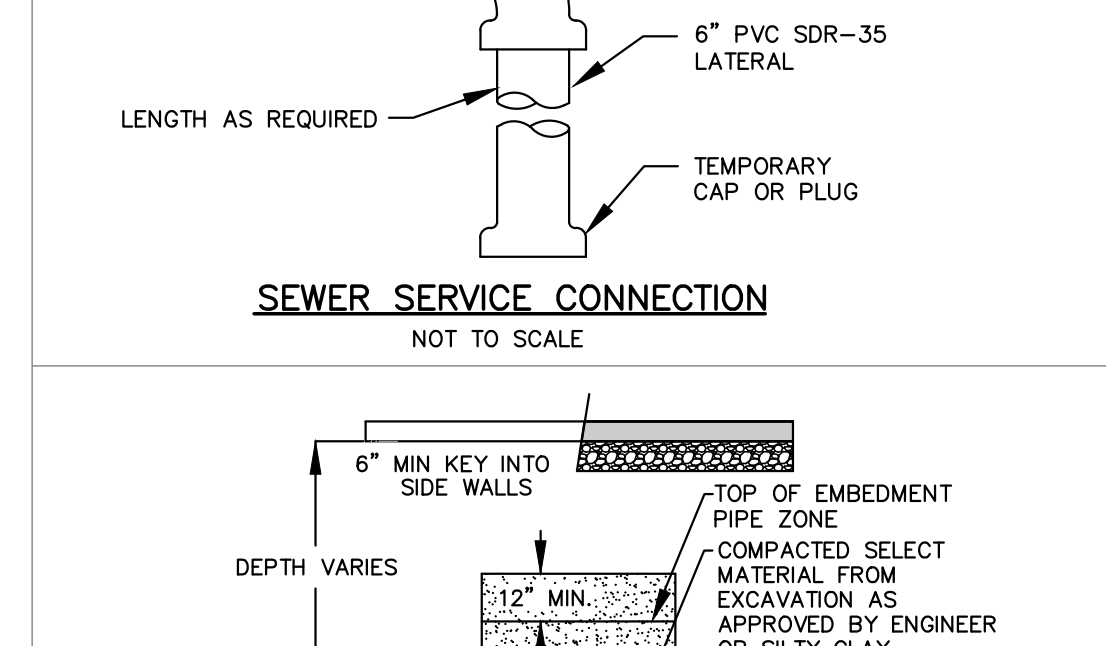
NOTES:

- 6" OF SAND COVER OVER INSULATION WHEN 2" RIGID INSULATION IS REQUIRED.
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- PAVEMENT PAY LIMIT SHALL BE 7" MAXIMUM CENTERED ON PIPE.



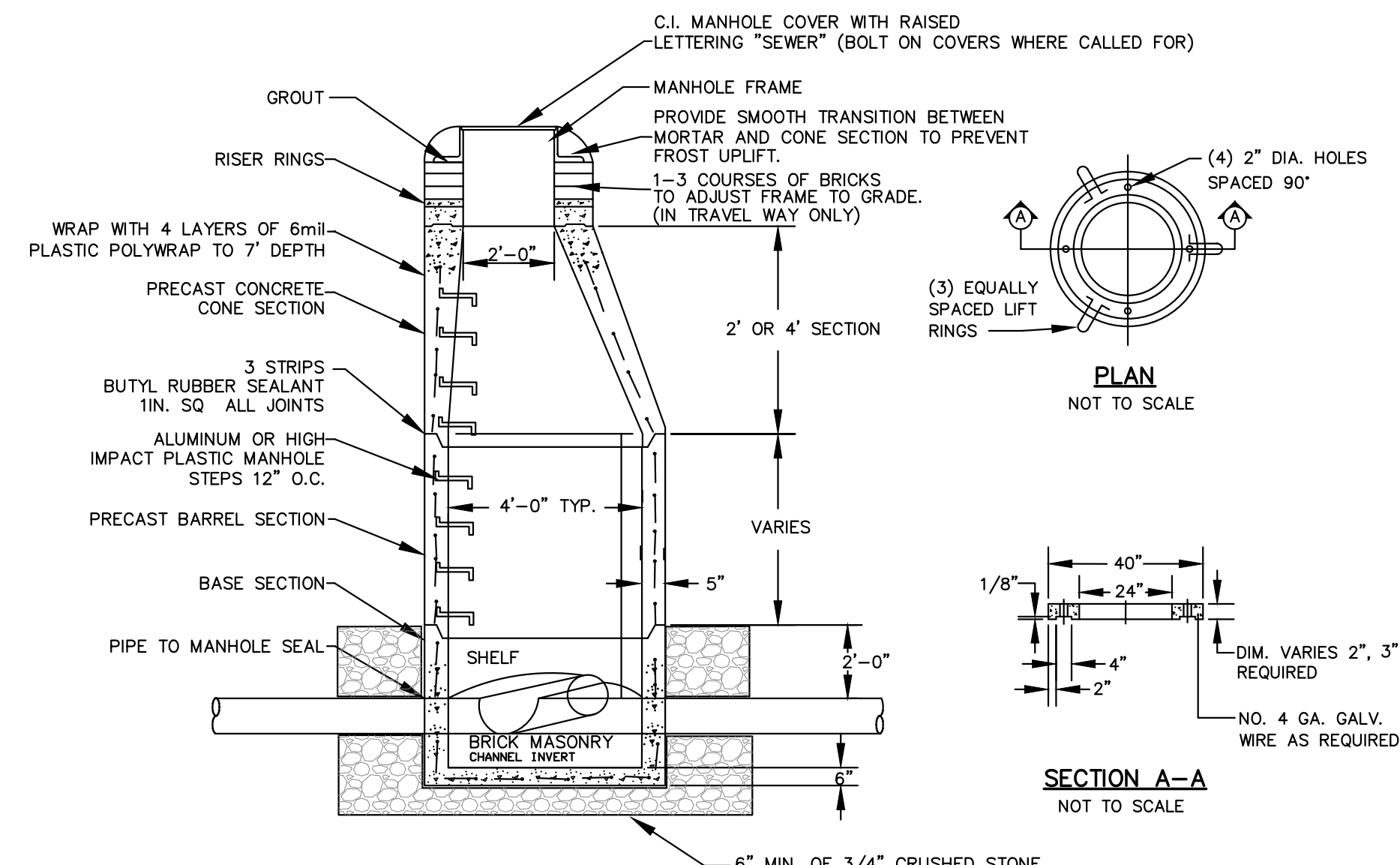
SEWER SERVICE CONNECTION

NOT TO SCALE



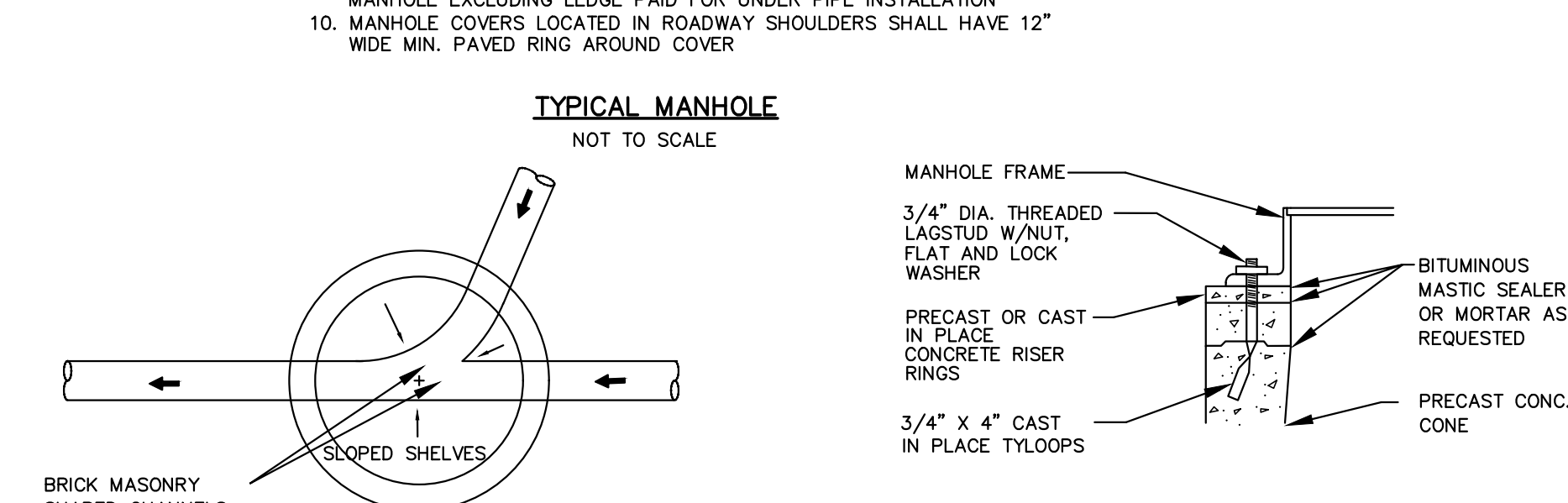
TRENCH DAM DETAIL

NOT TO SCALE



MANHOLE BASE

NOT TO SCALE



MANHOLE ASSEMBLY DETAIL

NOT TO SCALE

85716E

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D-1.03

Project No. 85716E

Drawn By: FABIAO

Checked By: FABIAO

Date: 03/22/2021

Scale: AS SHOWN

Project Location: BIG MOOSE TOWNSHIP, MAINE

Drawing Description: DETAILS

Professional Engineer License No. 13020

Professional Engineer Name: DUBE-O'NEAL

Professional Engineer Signature: [Signature]