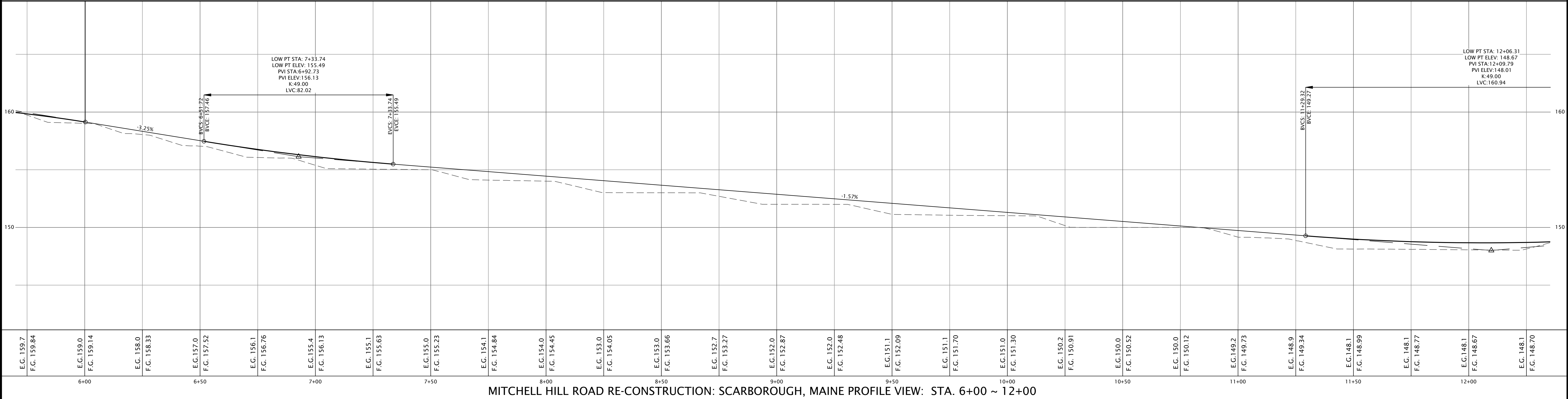


MITCHELL HILL ROAD RE-CONSTRUCTION STA 6+00 - STA 12+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

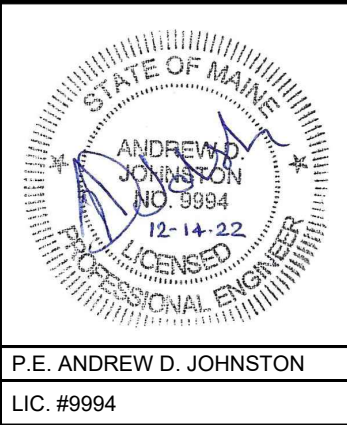


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 6+00 ~ 12+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW
REVISIONS		



MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 2

TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

DRAWN: AJ	DATE: DECEMBER 2021
CHECKED: AJ	SCALE: AS SHOWN
FILE NAME:	JOB NO. 21-045
SHEET: C-202	





BOOK 52694 PAGE 133  
ASSESSORS MAP R23 LOT 14F

STEVEN FLAGG &  
ANDREA SERGIO-FLAGG  
20 MITCHELL HILL ROAD  
SCARBOROUGH, ME 04074  
BOOK 34858 PAGE 159  
ASSESSORS MAP R23 LOT 14

TBM#2 SPKS  
ELEV. = 152.83

EXISTING HDPE CULVERT  
TO REMAIN

NEW RIPRAP APRON (TYPICAL)

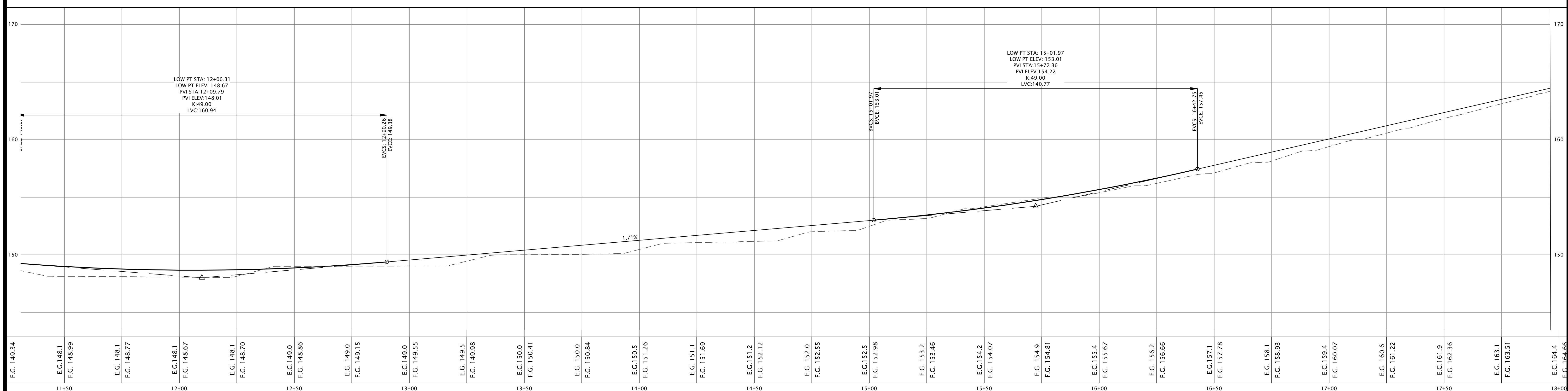
COYOTE KNOLL LN

NOTE: EROSION CONTROL MESH  
TO BE APPLIED TO ALL DITCHES  
AND SLOPES STEEPER THAN 3:1

RISBARA BROS  
CONSTRUCTION CO. INC  
PO BOX 485  
SCARBOROUGH, ME 04070  
BOOK 25691 PAGE 171  
ASSESSORS MAP R23 LOT 15

NEW 15" HDPE CROSS CULVERT  
— INV. IN = 153.5'  
INV. OUT = 152.5'

MITCHELL HILL ROAD RE-CONSTRUCTION STA 12+00 - STA 18+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

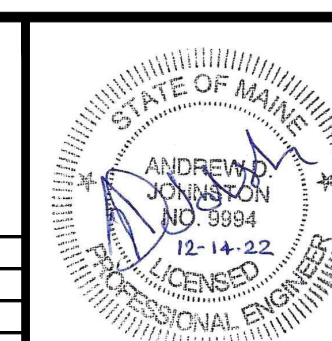


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 12+00 ~ 18+00

**PROFILE SCALE:**  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW
REV	DATE	DESCRIPTION
REVISIONS		



P.E. ANDREW D. JOHNSTON
LIC. #9994

# MITCHELL HILL ROAD SCARBOROUGH ROAD RE-CONSTRUCTION PLAN AND PROFILE 3

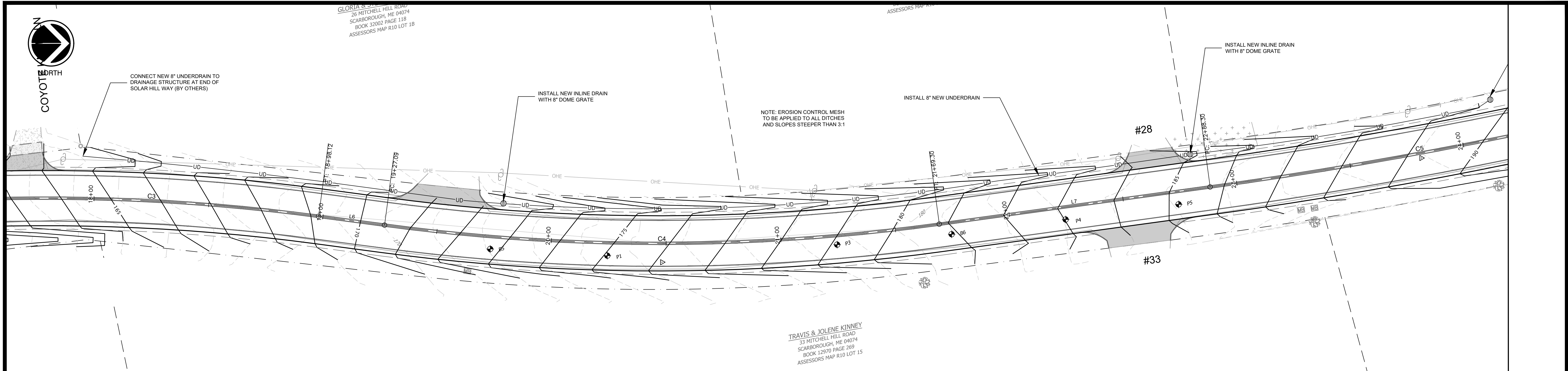
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074



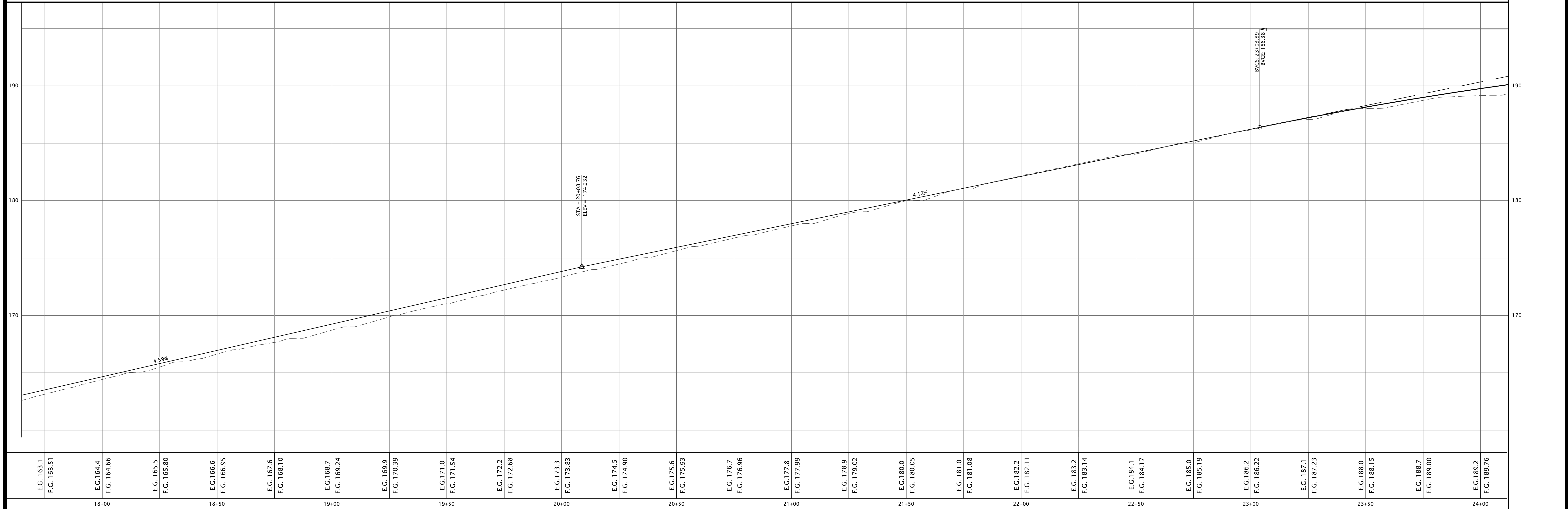
Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

DRAWN: AJ	DATE: DECEMBER 2021
DESIGNED: AJ	SCALE: AS SHOWN
CHECKED:	JOB NO. 21-045
FILE NAME:	
SHEET: C-203	





MITCHELL HILL ROAD RE-CONSTRUCTION STA 18+00 - STA 24+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

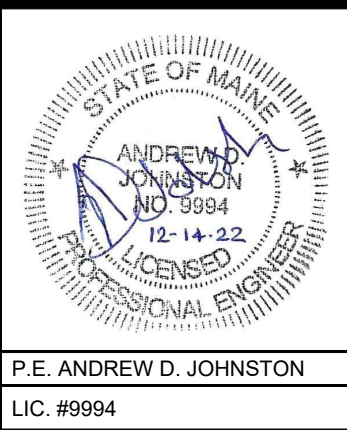


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 18+00 ~ 24+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 4

TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

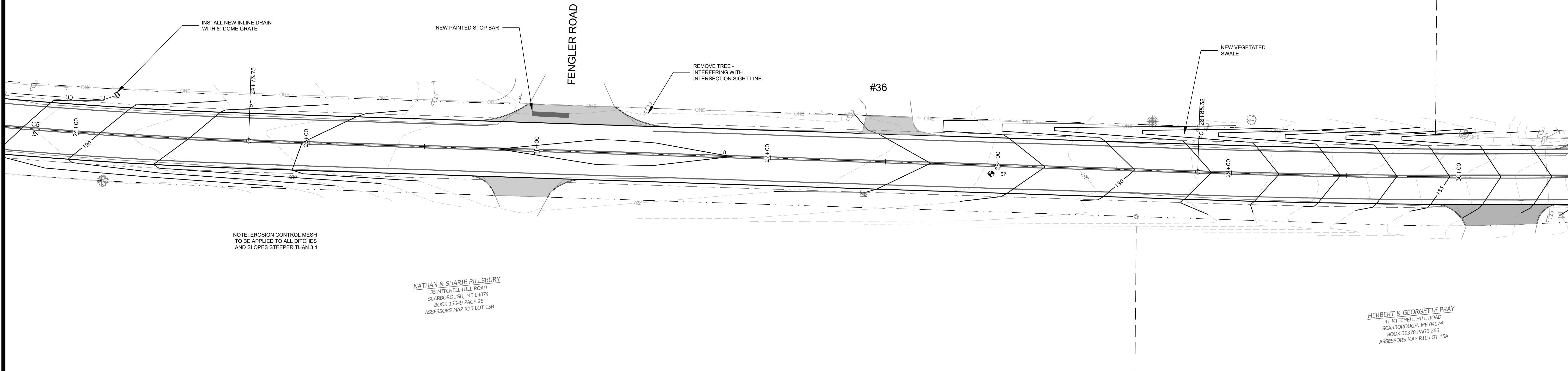
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CHECKED: AJ	SCALE: AS SHOWN
FILE NAME:	JOB NO. 21-045
SHEET: C-204	



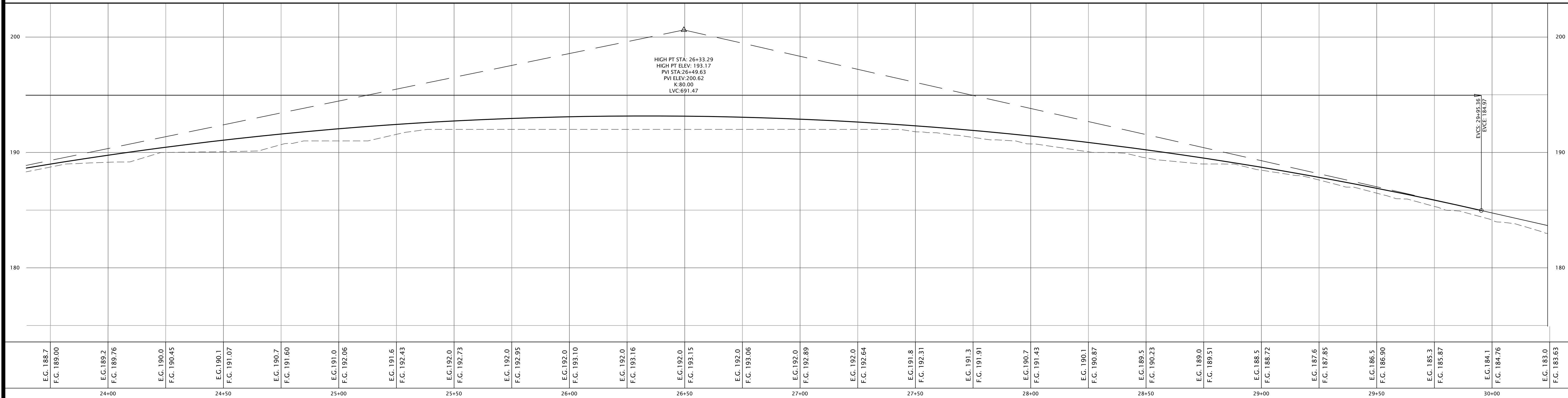


BOOK 26948 PAGE 149  
ASSESSORS MAP R10 LOT 101

SUSAN FLYNN &  
RICHARD MICHAUD  
2 PINTAIL POINT DRIVE  
SCARBOROUGH, ME 04074  
BOOK 36890 PAGE 344  
ASSESSORS MAP R10 LOT 2



MITCHELL HILL ROAD RE-CONSTRUCTION STA 24+00 - STA 30+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

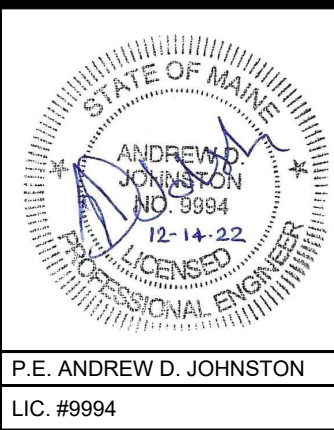


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 24+00 ~ 30+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

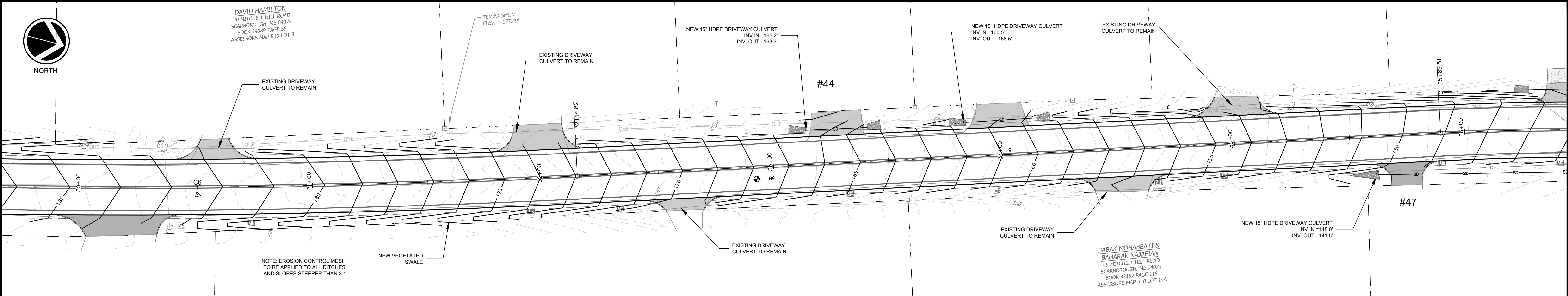
ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW

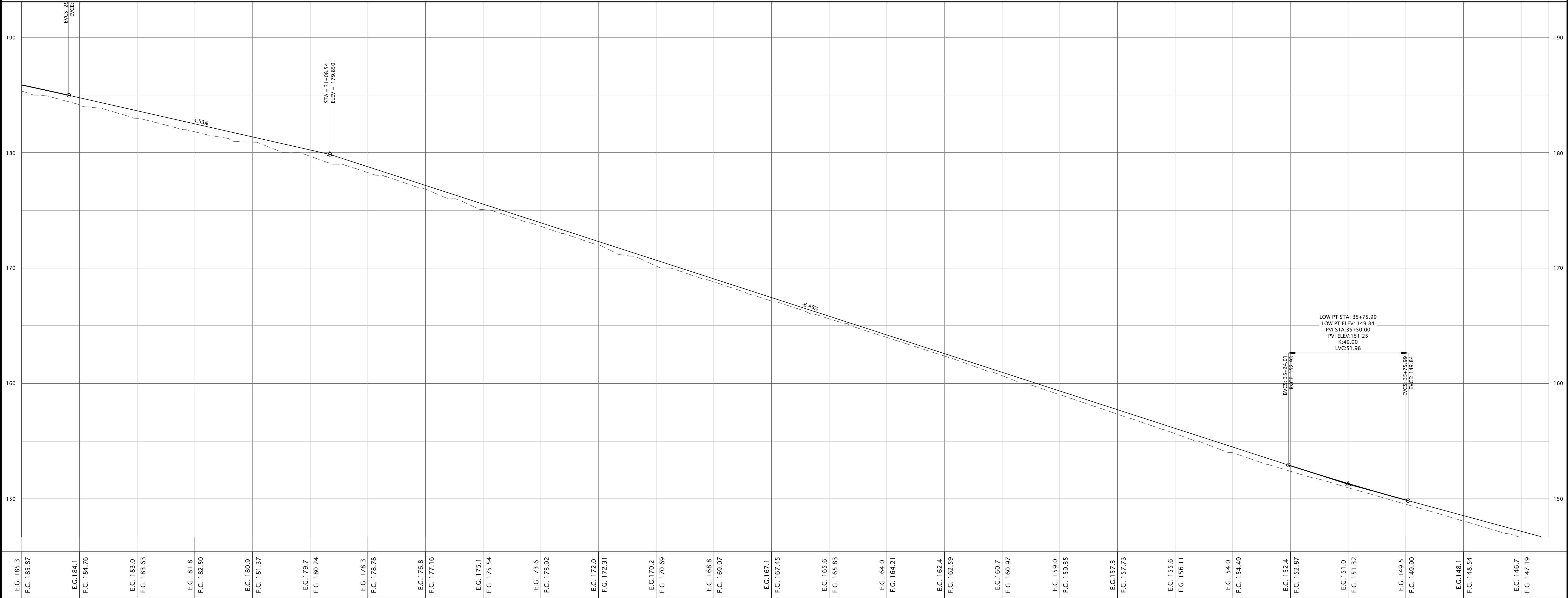


MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 5  
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050  
DRAWN: AJ  
DESIGNED: AJ  
CHECKED:  
FILE NAME:  
SHEET: C-205  
DATE: DECEMBER 2021  
SCALE: AS SHOWN  
JOB NO. 21-045



MITCHELL HILL ROAD RE-CONSTRUCTION STA 30+00 - STA 36+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

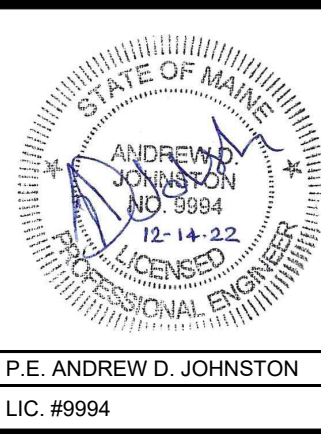


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 30+00 ~ 36+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 6

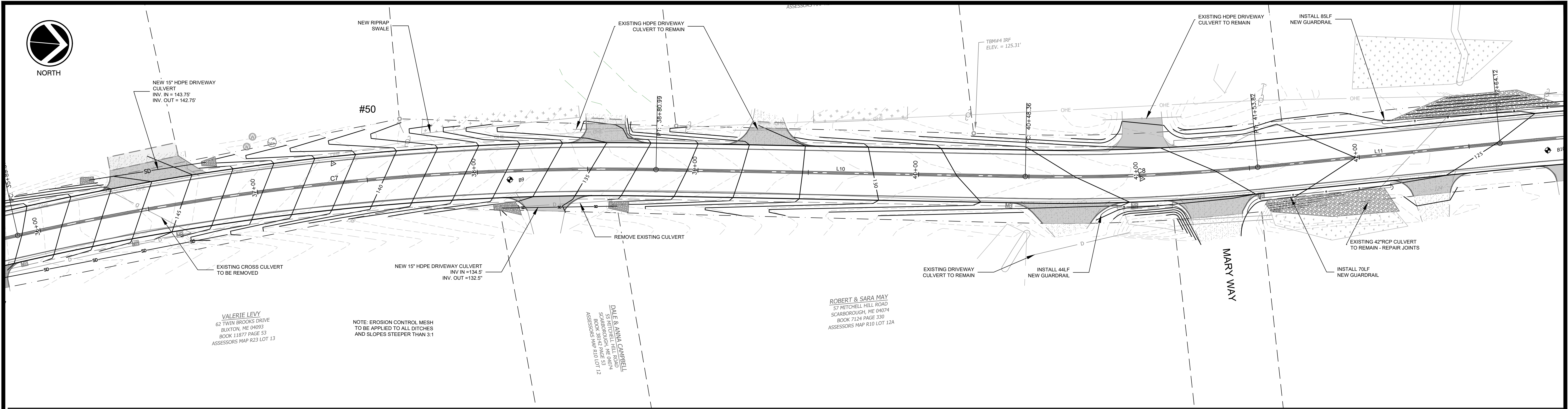
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

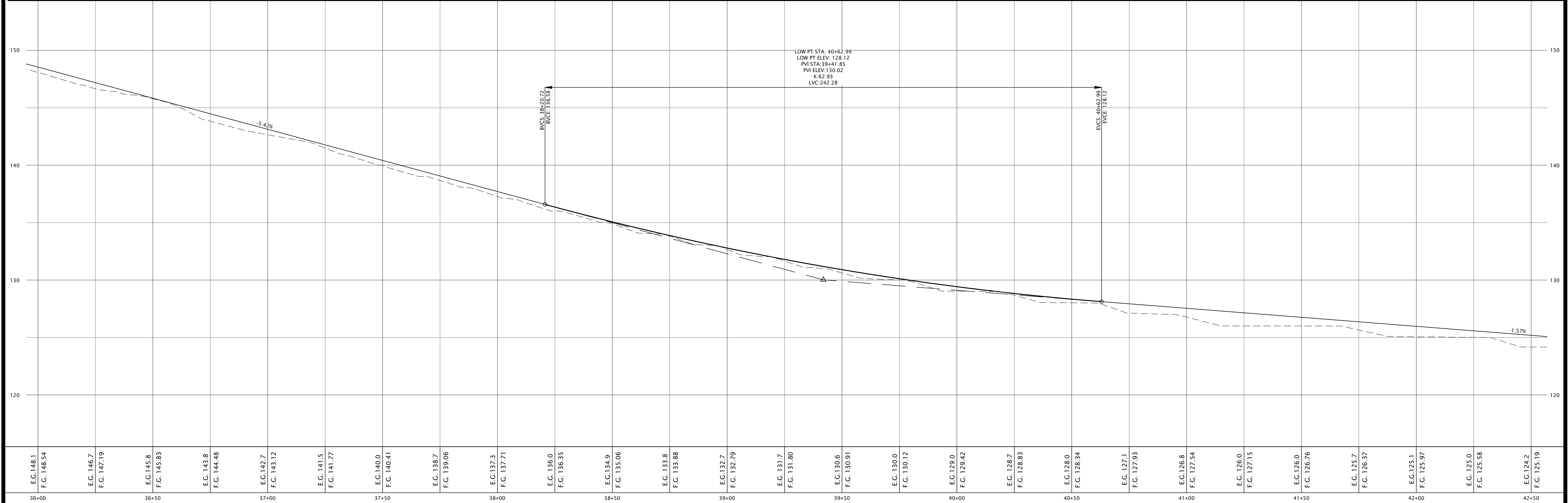
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DESIGNED: AJ  
CHECKED:  
FILE NAME:  
SHEET: C-206

DATE: DECEMBER 2021  
SCALE: AS SHOWN  
JOB NO. 21-045





MITCHELL HILL ROAD RE-CONSTRUCTION STA 36+00 - STA 42+50 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

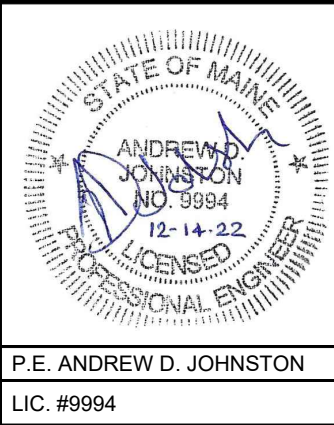


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 36+00 ~ 42+50

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 7

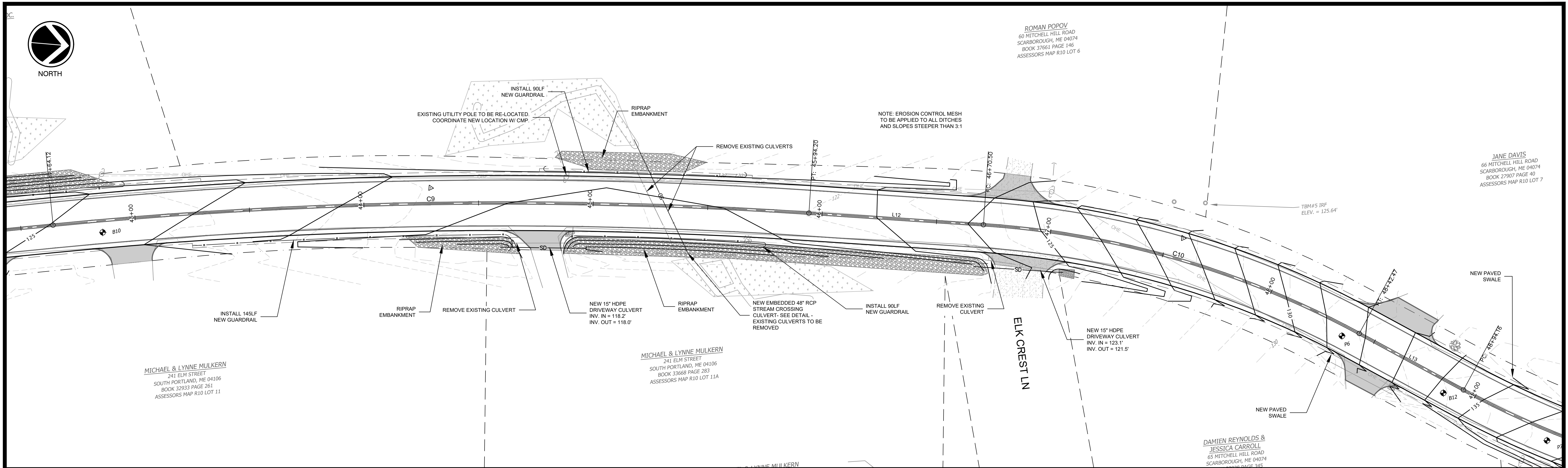
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

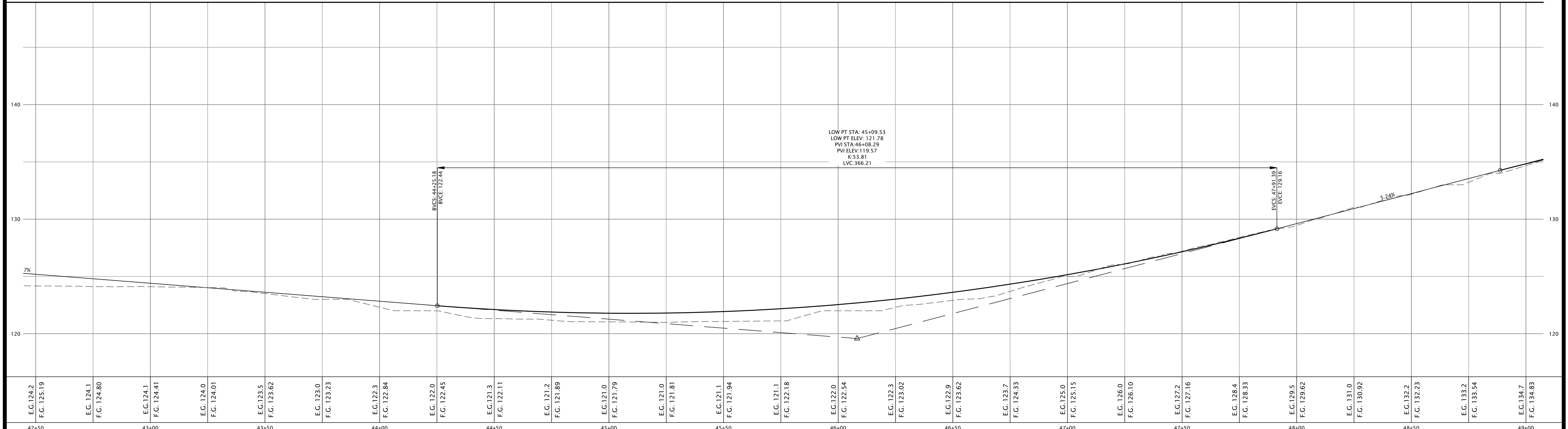
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DESIGNED: AJ  
CHECKED:  
FILE NAME:  
SHEET: C-207

DATE: DECEMBER 2021  
SCALE: AS SHOWN  
JOB NO. 21-045





MITCHELL HILL ROAD RE-CONSTRUCTION STA 42+50 - STA 49+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

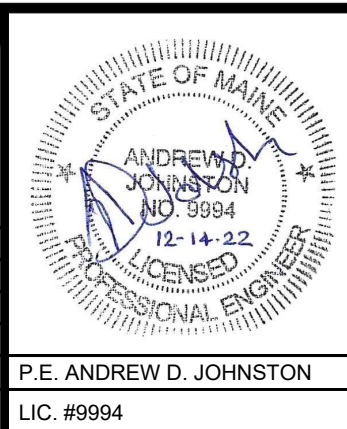


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 42+50 ~ 49+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



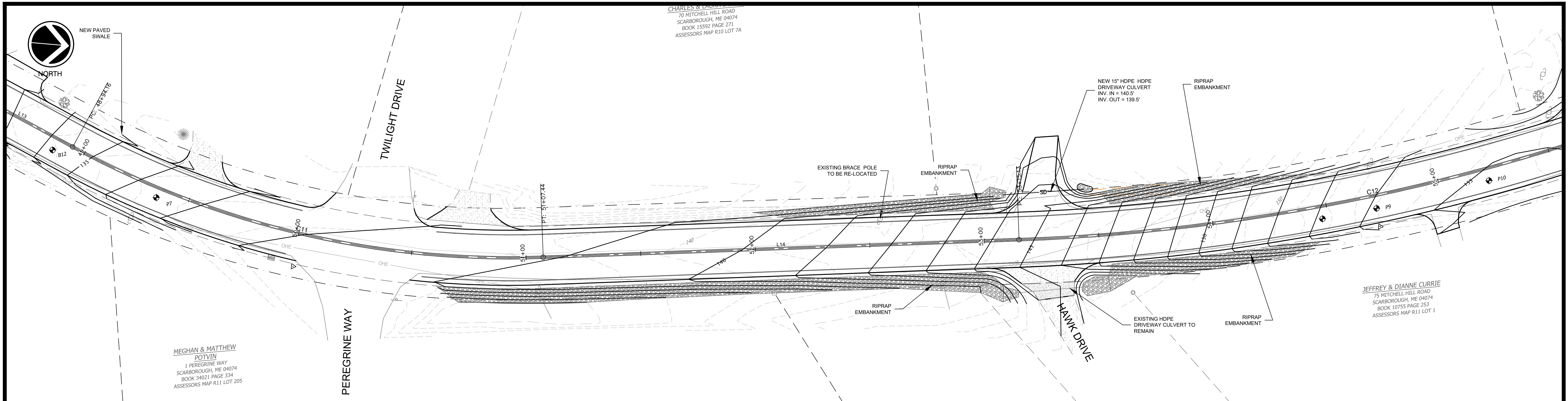
MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 8

TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

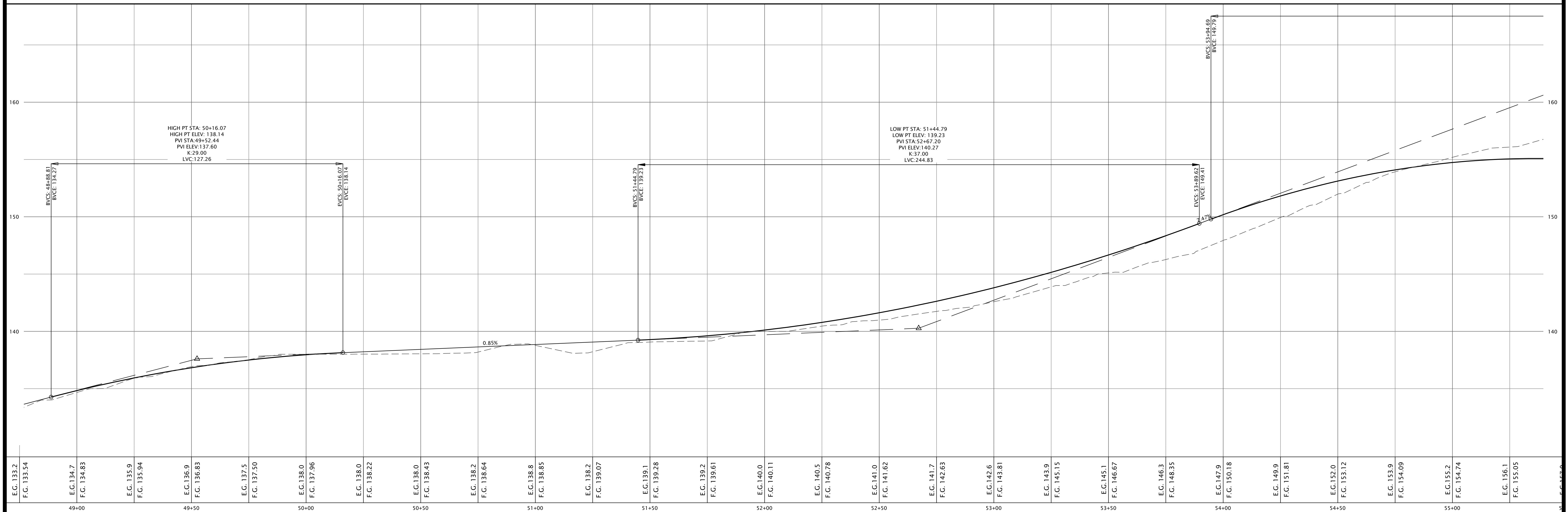
Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

DRAWN: AJ	DATE: DECEMBER 2021
DESIGNED: AJ	SCALE: AS SHOWN
CHECKED:	JOB NO. 21-045
FILE NAME:	
SHEET: C-208	





MITCHELL HILL ROAD RE-CONSTRUCTION STA 49+00 - STA 55+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

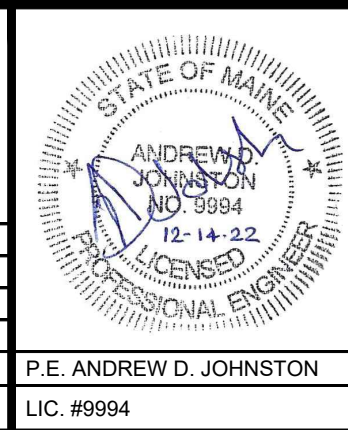


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 49+00 ~ 55+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



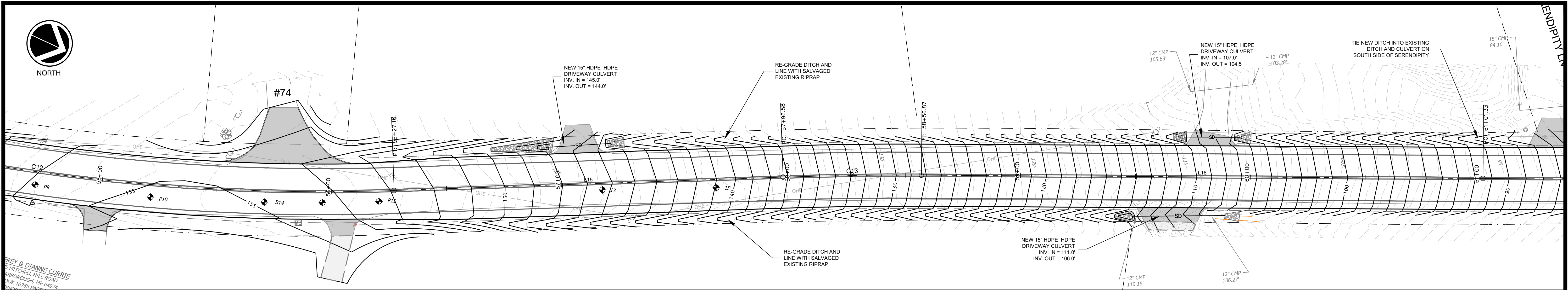
MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 9

TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

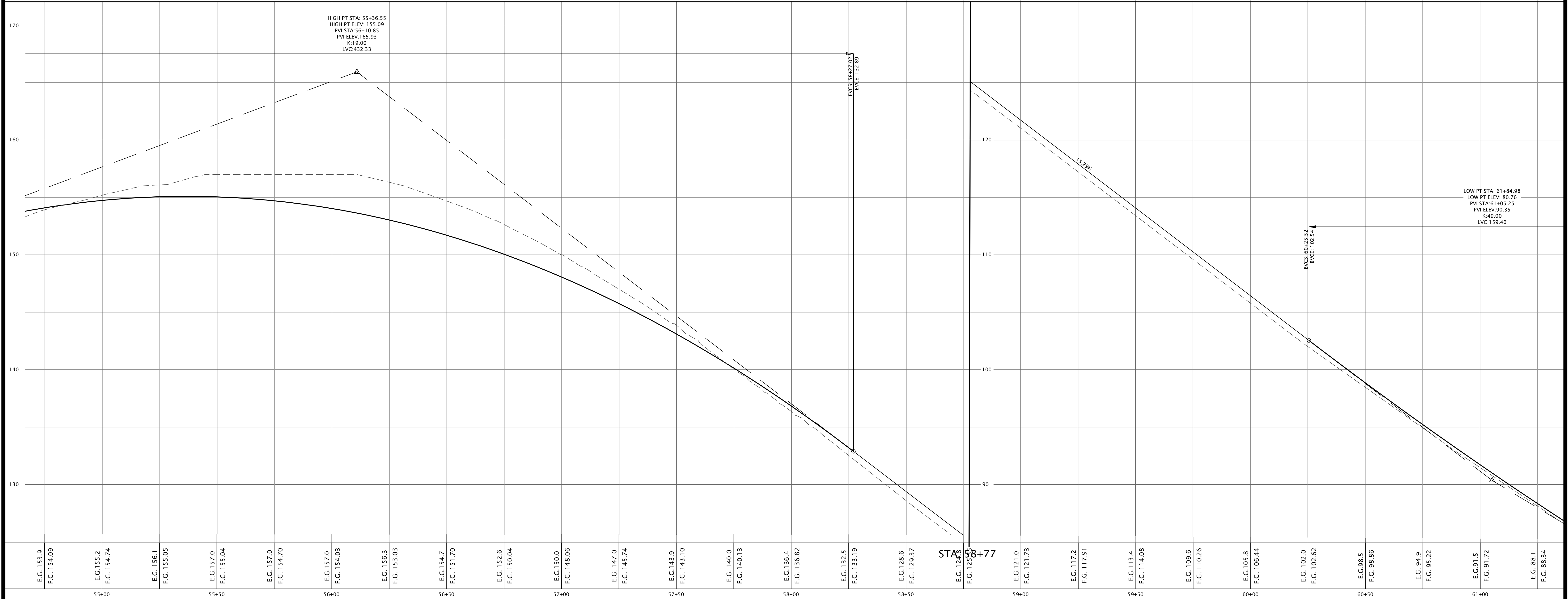
Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

DRAWN: AJ	DATE: DECEMBER 2021
DESIGNED: AJ	SCALE: AS SHOWN
CHECKED:	JOB NO. 21-045
FILE NAME:	
SHEET: C-209	





MITCHELL HILL ROAD RE-CONSTRUCTION STA 55+00 - STA 61+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

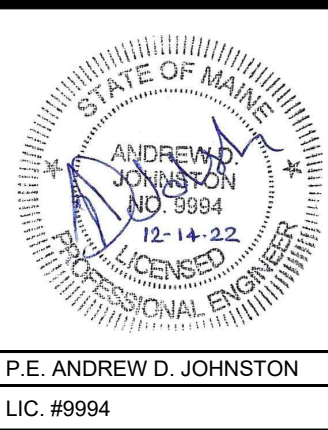


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 55+00 ~ 61+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

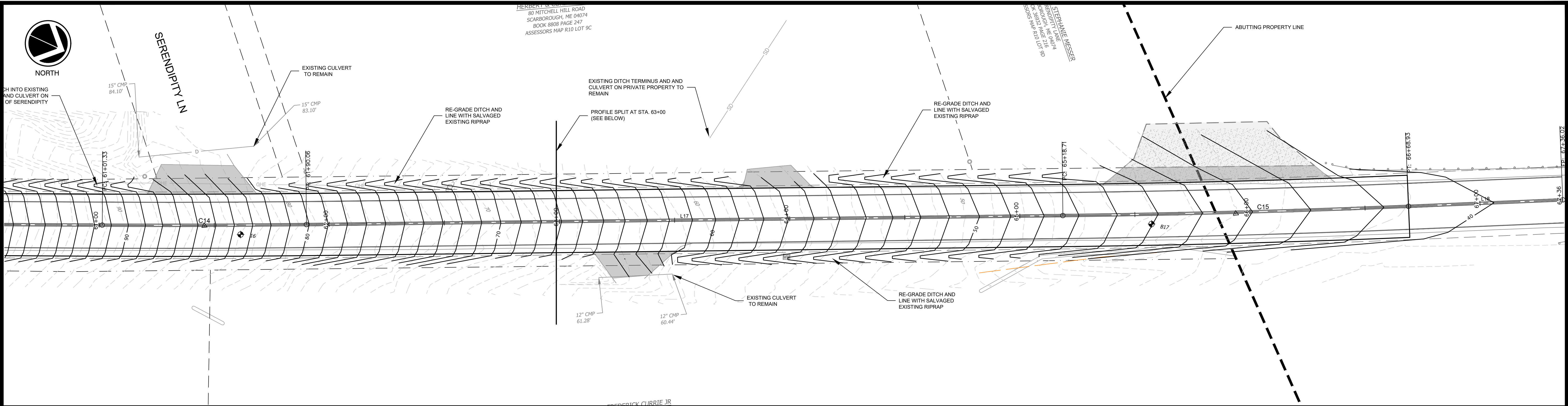
REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



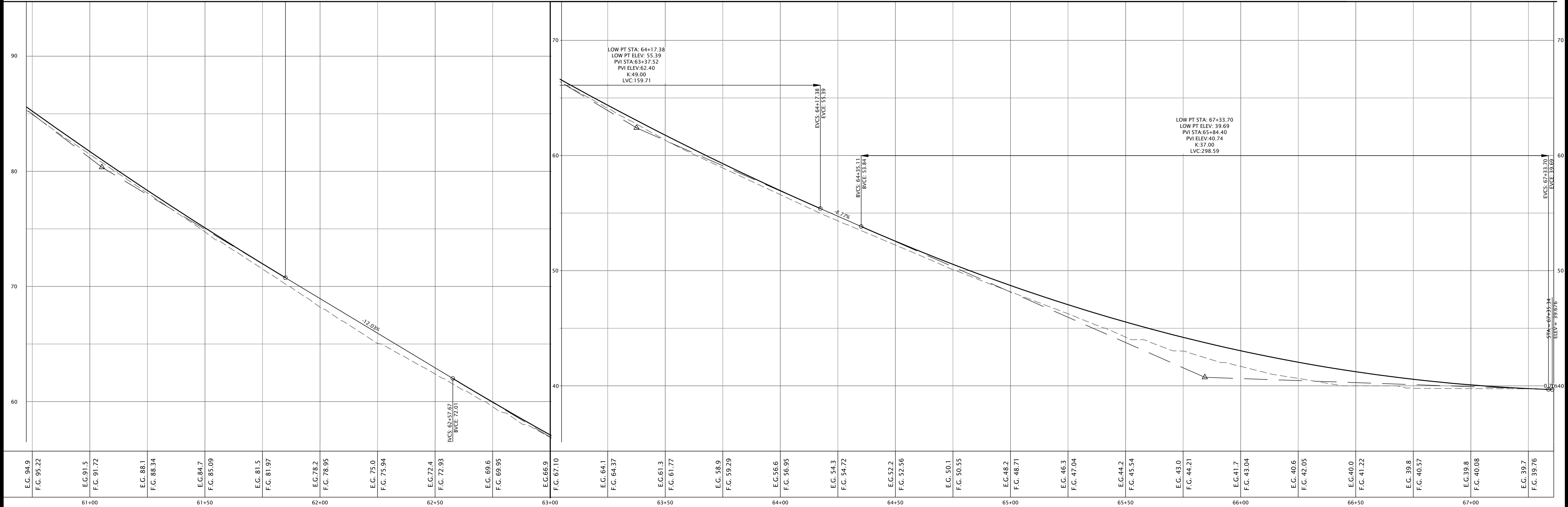
MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 10  
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050  
DRAWN: AJ  
DESIGNED: AJ  
CHECKED:  
FILE NAME:  
SHEET: C-210





MITCHELL HILL ROAD RE-CONSTRUCTION STA 61+00 - STA 65+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

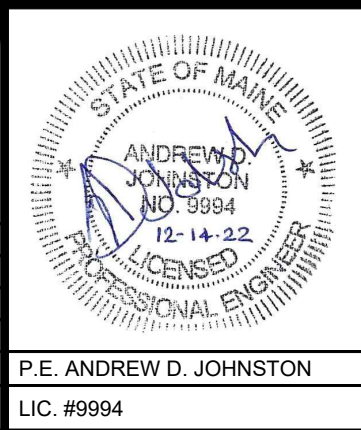


MITCHELL HILL ROAD RE-CONSTRUCTION: SCARBOROUGH, MAINE PROFILE VIEW: STA. 61+00 ~ 65+00

PROFILE SCALE:  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



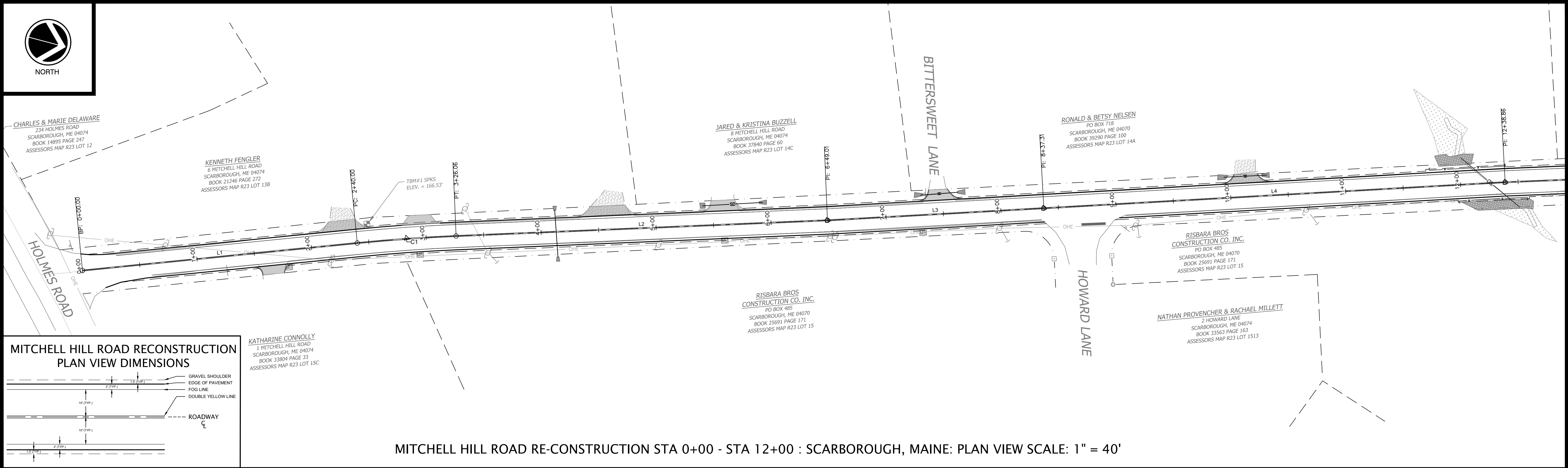
MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
PLAN AND PROFILE 11

TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

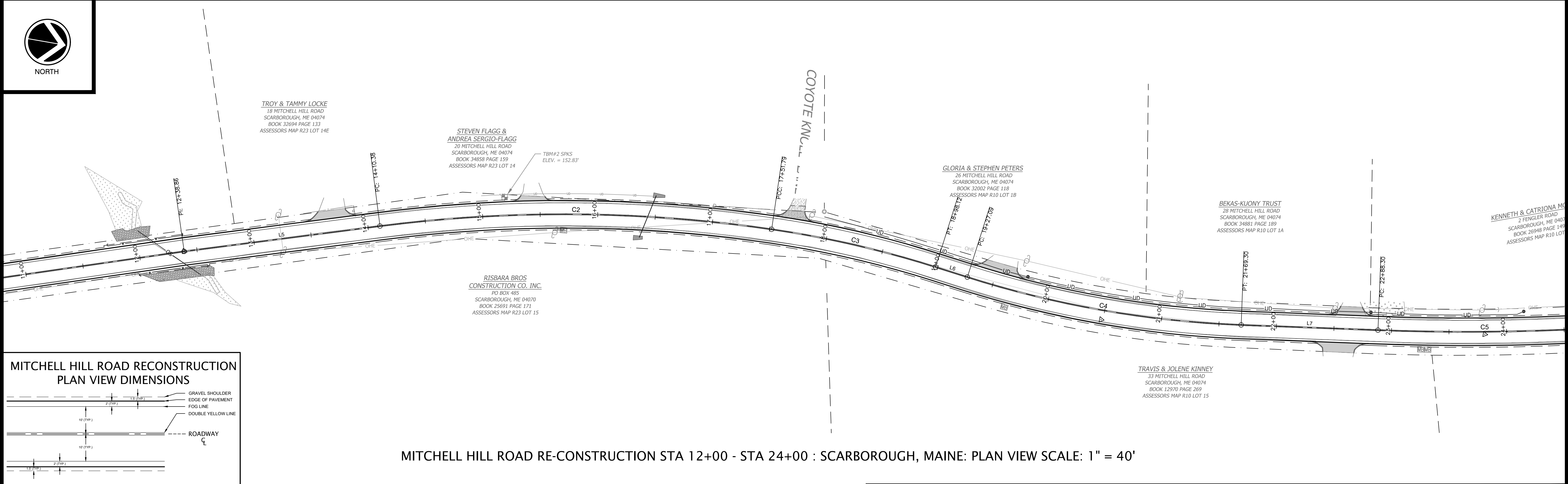
Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

DRAWN: AJ	DATE: DECEMBER 2021
CHECKED: AJ	SCALE: AS SHOWN
FILE NAME:	JOB NO. 21-045
SHEET: C-211	





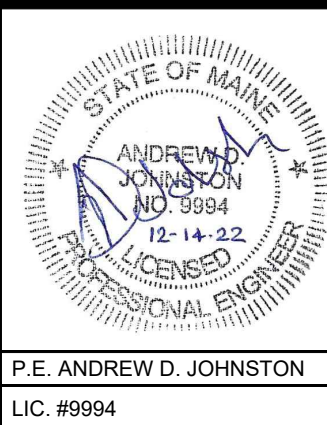
MITCHELL HILL ROAD RE-CONSTRUCTION STA 0+00 - STA 12+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 40'




MITCHELL HILL ROAD RE-CONSTRUCTION STA 12+00 - STA 24+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 40'

ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



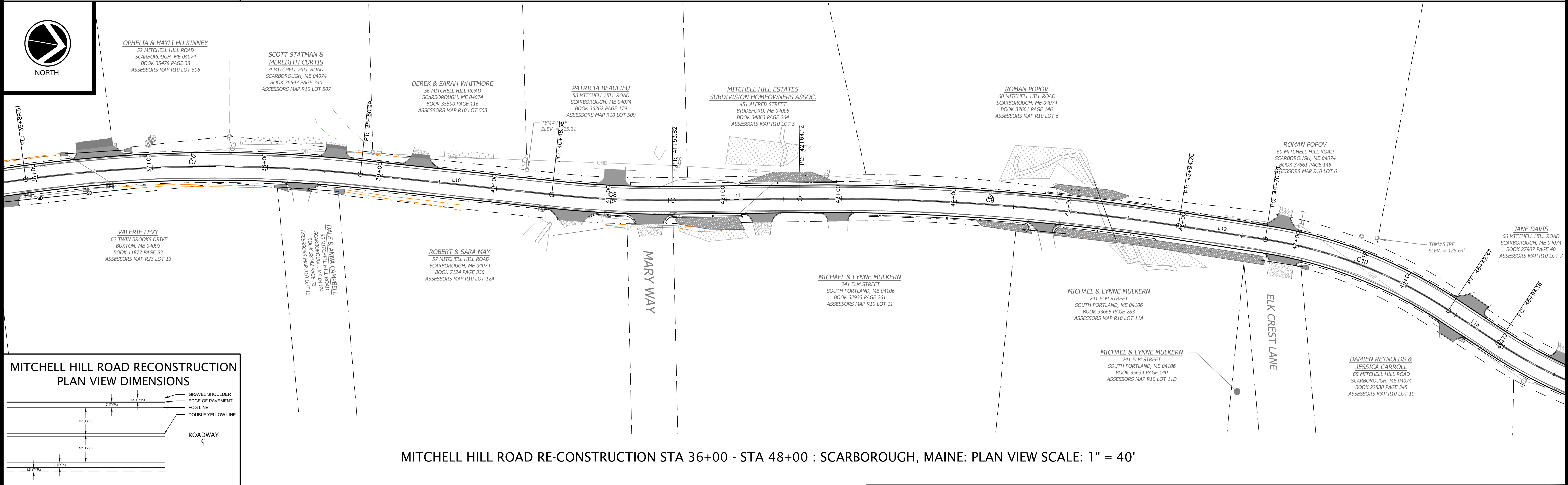
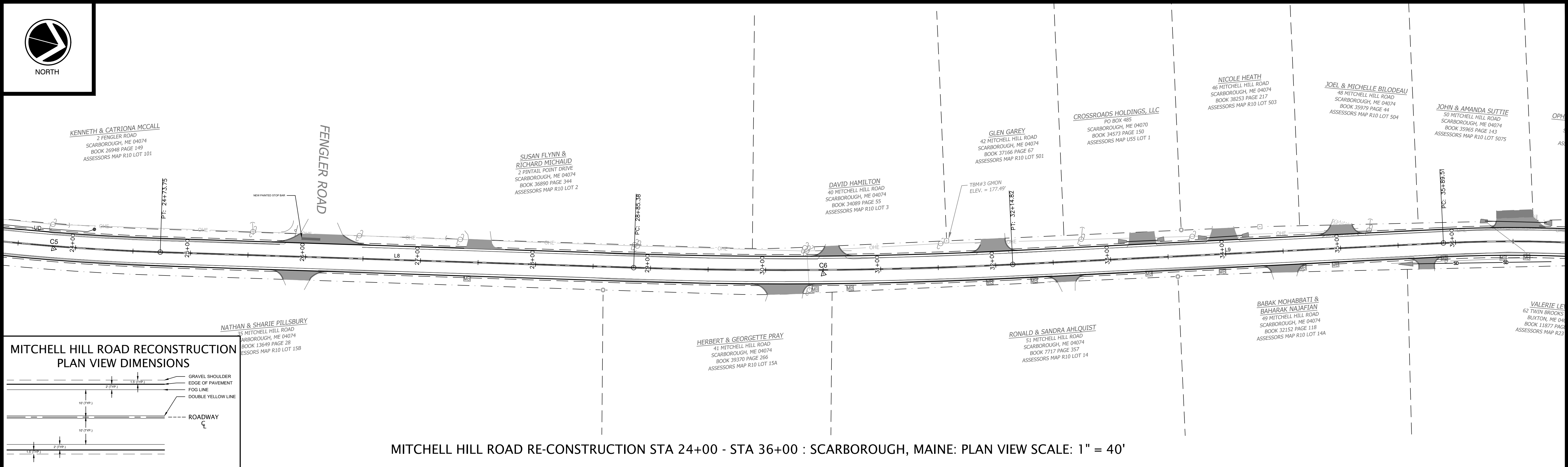
MITCHELL HILL ROAD  
SCARBOROUGH  
ROAD RE-CONSTRUCTION  
LAYOUT & MARKING PLAN  
  
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074



Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

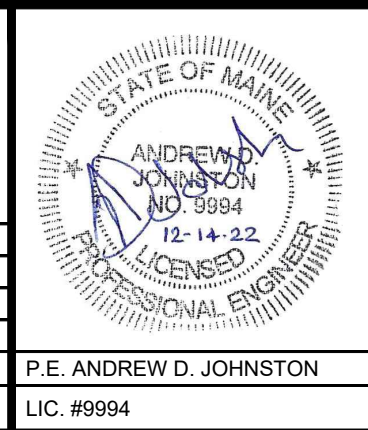
DRAWN: AJ	DATE: DECEMBER 2021
CHECKED: AJ	SCALE: AS SHOWN
FILE NAME:	JOB NO. 21-045
SHEET: C-301	





ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW
REVISIONS		

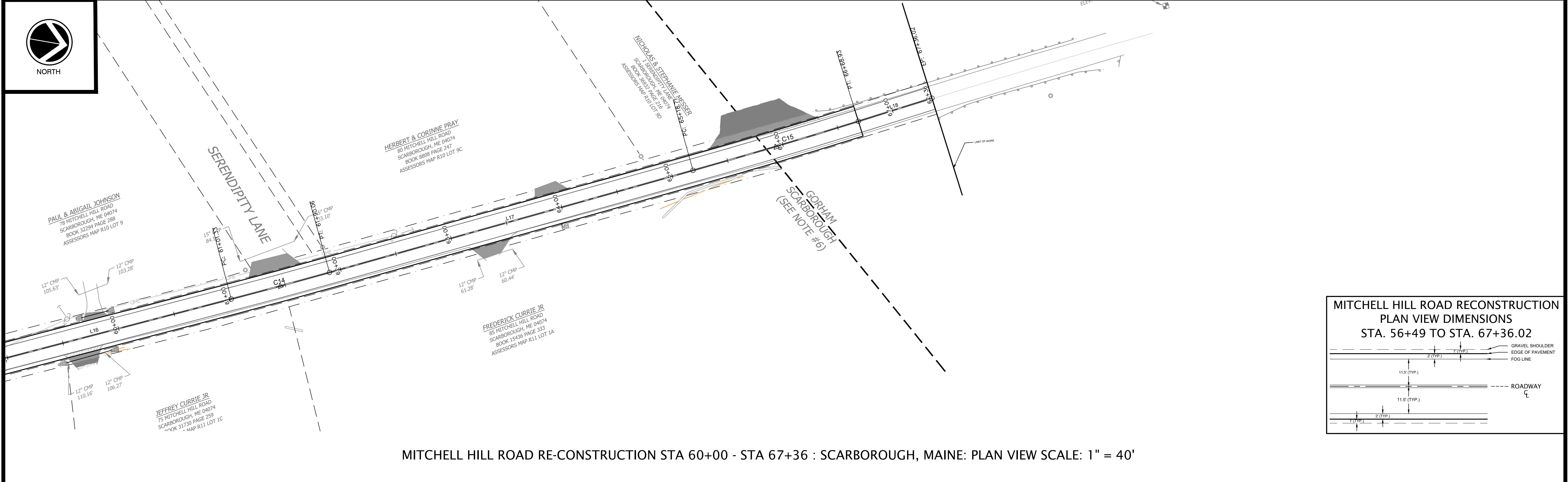
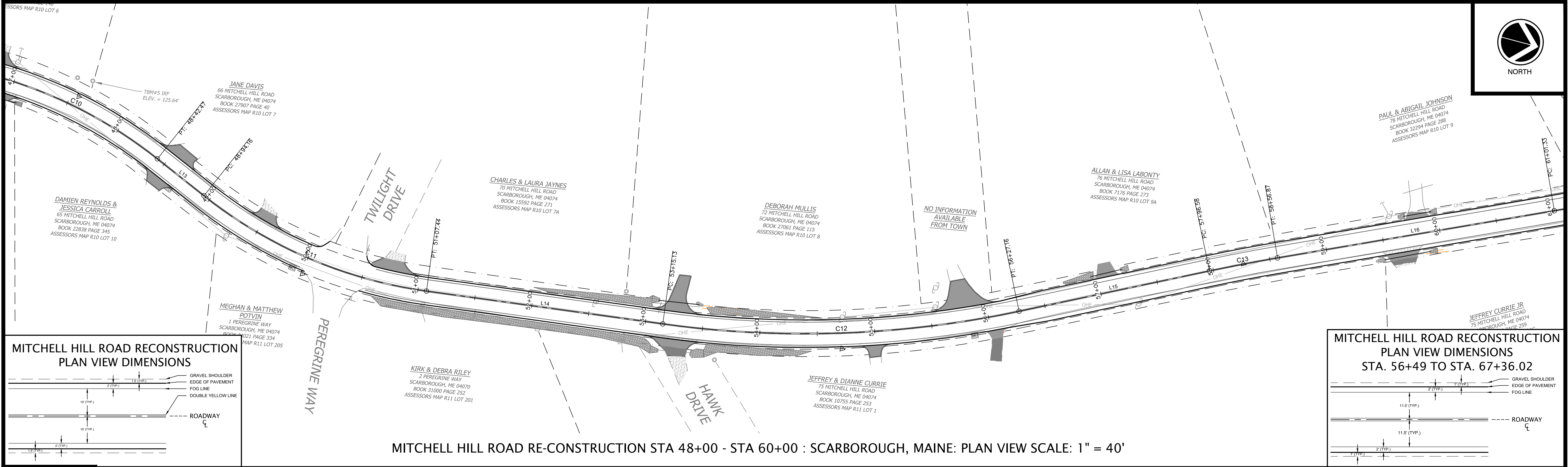


**MITCHELL HILL ROAD**  
**SCARBOROUGH**  
**ROAD RE-CONSTRUCTION**  
**LAYOUT & MARKING PLAN**

TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

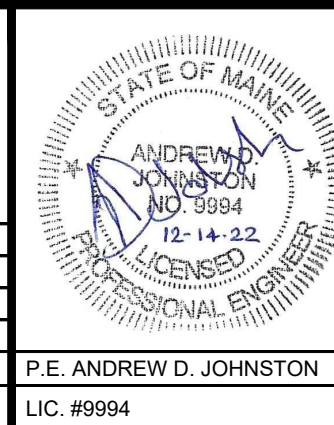
Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050	
DRAWN: AJ	DATE: DECEMBER 2021
DESIGNED: AJ	SCALE: AS SHOWN
CHECKED:	JOB NO. 21-045
FILE NAME:	
SHEET: C-302	






ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW
REVISIONS		



MITCHELL HILL ROAD SCARBOROUGH ROAD RE-CONSTRUCTION LAYOUT & MARKING PLAN
TOWN OF SCARBOROUGH 259 US ROUTE ONE SCARBOROUGH, MAINE 04074

		Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050	
DRAWN: AJ		DATE: DECEMBER 2021	
DESIGNED: AJ		SCALE: AS SHOWN	
CHECKED:		JOB NO. 21-045	
FILE NAME:			
SHEET: C-303			



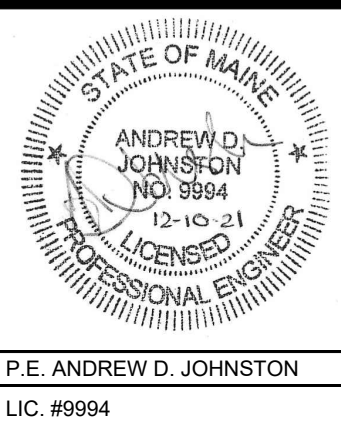
MITCHELL HILL ROAD HORIZONTAL ALIGNMENT GEOMETRY TABLES

Line Table: Mitchell Hill Road				
Line #	Length	Direction	Start Point	End Point
L1	240.00	N20° 42' 15.33"W	(2885218.17,280727.66)	(2885133.32,280952.16)
L2	322.95	N17° 25' 01.39"W	(2885105.22,281033.49)	(2885008.56,281341.63)
L3	188.30	N18° 12' 10.99"W	(2885008.56,281341.63)	(2884949.73,281520.51)
L4	401.54	N18° 13' 15.07"W	(2884949.73,281520.51)	(2884824.18,281901.92)
L5	171.52	N17° 21' 19.87"W	(2884824.18,281901.92)	(2884773.01,282065.64)
L6	28.97	N7° 36' 33.46"E	(2884724.18,282547.27)	(2884728.02,282575.98)
L7	119.00	N7° 48' 37.21"W	(2884727.59,282817.46)	(2884711.42,282935.36)
L8	411.63	N13° 07' 22.66"W	(2884677.75,283117.65)	(2884584.29,283518.54)
L9	374.68	N17° 50' 30.79"W	(2884496.37,283835.94)	(2884381.57,284192.60)
L10	167.37	N3° 55' 28.63"W	(2884326.67,284478.14)	(2884315.22,284645.11)
L11	110.30	N10° 38' 18.81"W	(2884301.86,284749.66)	(2884281.49,284858.07)
L12	76.30	N1° 10' 56.65"W	(2884247.54,285186.02)	(2884245.97,285262.30)
L13	51.69	N23° 27' 02.76"E	(2884278.92,285429.74)	(2884299.49,285477.16)
L14	207.69	N7° 05' 56.31"W	(2884329.47,285685.78)	(2884303.80,285891.88)
L15	169.42	N26° 57' 47.34"W	(2884212.87,286188.73)	(2884136.05,286339.74)
L16	244.46	N24° 39' 37.15"W	(2884109.80,286394.00)	(2884007.80,286616.17)
L17	328.65	N25° 40' 37.66"W	(2883970.07,286696.48)	(2883827.66,286992.67)
L18	67.08	N27° 23' 55.00"W	(2883760.55,287127.06)	(2883729.68,287186.62)


Curve Table: Mitchell Hill Road					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	1500.00	86.06	N19° 03' 38.36"W	(2885133.32,280952.16)	(2885105.22,281033.49)
C2	1250.00	341.42	N9° 31' 50.97"W	(2884773.01,282065.64)	(2884716.66,282401.30)
C3	900.00	146.33	N2° 57' 05.69"E	(2884716.66,282401.30)	(2884724.18,282547.27)
C4	900.00	242.21	N0° 06' 01.87"W	(2884728.02,282575.98)	(2884727.59,282817.46)
C5	2000.00	185.45	N10° 27' 59.94"W	(2884711.42,282935.36)	(2884677.75,283117.65)
C6	4000.00	329.44	N15° 28' 56.73"W	(2884584.29,283518.54)	(2884496.37,283835.94)
C7	1200.00	291.48	N10° 52' 59.71"W	(2884381.57,284192.60)	(2884326.67,284478.14)
C8	900.00	105.46	N7° 16' 53.72"W	(2884315.22,284645.11)	(2884301.86,284749.66)
C9	2000.00	330.08	N5° 54' 37.73"W	(2884281.49,284858.07)	(2884247.54,285186.02)
C10	400.00	171.97	N11° 08' 03.06"E	(2884245.97,285262.30)	(2884278.92,285429.74)
C11	400.00	213.28	N8° 10' 33.23"E	(2884299.49,285477.16)	(2884329.47,285685.78)
C12	900.00	312.03	N17° 01' 51.83"W	(2884303.80,285891.88)	(2884212.87,286188.73)
C13	1500.00	60.29	N25° 48' 42.24"W	(2884136.05,286339.74)	(2884109.80,286394.00)
C14	5000.00	88.73	N25° 10' 07.40"W	(2884007.80,286616.17)	(2883970.07,286696.48)
C15	5000.00	150.23	N26° 32' 16.33"W	(2883827.66,286992.67)	(2883760.55,287127.06)

ISSUED FOR BID

4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW
REV	DATE	DESCRIPTION
REVISIONS		



MITCHELL HILL ROAD SCARBOROUGH ROAD RE-CONSTRUCTION GEOMETRY AND SUPERELEVATION	TOWN OF SCARBOROUGH 259 US ROUTE ONE SCARBOROUGH, MAINE 04074
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 Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050	
DRAWN: AJ	DATE: DECEMBER 2021
DESIGNED: AJ	SCALE: AS SHOWN
CHECKED:	JOB NO. 21-045
FILE NAME:	
SHEET: C-304	



SOIL EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES INCLUDE THE USE OF STABILIZED CONSTRUCTION ENTRANCES, SILTATION FENCE, EROSION CONTROL MIX, STONE CHECK DAMS, HAY BALE BARRIERS, CATCH BASIN SEDIMENT COLLECTION BAGS, EROSION CONTROL BLANKET, AND TEMPORARY SEEDING AND MULCHING AS REQUIRED. PERMANENT DEVICES INCLUDE THE USE OF RIP RAP AT EXPOSED STORM DRAIN AND CULVERT INLETS AND OUTLETS, AND PERMANENT VEGETATION.

A.GENERAL

- IT IS ANTICIPATED THAT CONSTRUCTION MAY BEGIN AS SOON AS POSSIBLE FOLLOWING RECEIPT OF NECESSARY PERMITS.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION & SEDIMENT CONTROL BMPS - MANUAL FOR DESIGNERS AND ENGINEERS (2016), OR AS CURRENTLY REVISED OR U.S. ENVIRONMENTAL PROTECTION AGENCY PUBLICATION 832/R-92-005 (SEPTEMBER, 1992) STORM WATER MANAGEMENT FOR CONSTRUCTION, CHAPTER 3, WHICHEVER IS MORE STRINGENT.
- ANY ADDITIONAL EROSION AND SEDIMENTATION CONTROL DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE, DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PERSONNEL AND/OR MUNICIPAL OFFICIALS SHALL BE INSTALLED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES, WATER BODIES, OR WETLANDS AS A RESULT OF THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/ REPLACEMENT/ MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE ABOVE PERSONNEL. DESCRIPTIONS OF ACCEPTABLE PERMANENT STABILIZATION FOR VARIOUS COVER TYPES FOLLOWS:
  - FOR SEEDDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.
  - FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.
  - FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL. EROSION CONTROL MIX MAY BE USED AS MULCH FOR PERMANENT STABILIZATION ACCORDING TO THE APPROVED APPLICATION RATES AND LIMITATIONS.
  - FOR AREAS STABILIZED WITH RIP RAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIP RAP HAVE AN APPROPRIATE BACKING OF A WELL-GRADED GRAVEL OR APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIP RAP. STONE MUST BE SIZED APPROPRIATELY.
  - PAVED AREAS: FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED.
  - FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH WELL-GRADED RIP RAP, OR WITH ANOTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR DOWN CUTTING OF THE CHANNEL.

B. EROSION AND SEDIMENTATION CONTROL MEASURES

- PRIOR TO THE BEGINNING OF CONSTRUCTION, THE TEMPORARY SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE, OR ENGINEER. SILT FENCE SHALL BE INSTALLED ALONG THE DOWNGRADIENT SIDE OF CONSTRUCTION WORK AREAS, WITH LOCATIONS BEING ADJUSTED ALONG WITH THE CONSTRUCTION PHASING AREAS. THE CONTRACTOR MAY USE EROSION MIX IN PLACE OF SINGLE SILT FENCE BARRIER.
- THE SILT FENCE SHALL BE INSTALLED PER THE DETAIL PROVIDED IN THE PLAN SET AND INSPECTED IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST WEEKLY IN THE ABSENCE OF SIGNIFICANT RAINFALL. ANY REQUIRED REPAIRS WILL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE SILT BARRIERS. THIS SEDIMENT WILL BE SPREAD AND STABILIZED IN AREAS OF THE SITE NOT SUBJECT TO EROSION. THE CONTRACTOR SHALL MAKE REPAIRS IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE FENCE LINE. IF SUCH EROSION IS OBSERVED, THE CONTRACTOR SHALL TAKE PROACTIVE ACTION TO IDENTIFY THE CAUSE OF THE EROSION AND TAKE ACTION TO AVOID ITS REOCCURRENCE. PROPER PLACEMENT OF STAKES AND KEYING THE BOTTOM OF THE FABRIC INTO THE GROUND IS CRITICAL TO THE FENCE'S EFFECTIVENESS. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THE FENCE, THE BARRIER SHALL BE REPLACED WITH A STONE CHECK DAM AND MEASURES TAKEN TO AVOID THE CONCENTRATION OF FLOWS NOT INTENDED TO BE DIRECTED TO THE SILT FENCE. SILT FENCE SHALL BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION.
- EROSION CONTROL BERMS MAY BE USED IN PLACE OF SILT FENCE IN THE AREA ADJACENT TO THE DRAINAGEWAY AT THE NORTHWEST CORNER OF THE PROPERTY.
- TEMPORARY SEDIMENT SUMPS WILL PROVIDE SEDIMENTATION CONTROL FOR STORMWATER RUNOFF FROM DISTURBED AREAS DURING CONSTRUCTION UNTIL STABILIZATION HAS BEEN ACHIEVED.
- A CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED AT ALL ACCESS POINTS ONTO THE SITE TO PREVENT TRACKING OF SOIL ONTO ADJACENT LOCAL ROADS AND STREETS.
- SILT LOGS MAY BE INSTALLED IN LIEU OF STONE CHECK DAMS PROVIDED THE DEVICES ARE WELL ANCHORED, AND IF PRIOR APPROVAL IS RECEIVED FROM THE PROJECT ENGINEER.
- SILTSACKS™ WILL BE UTILIZED IN CATCH BASINS IN OR NEAR WORK AREAS AT RISK FROM RECEIVING TRANSPORTED SEDIMENT.
- ALL CATCH BASINS AND FIELD INLETS, NEW OR EXISTING, THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS MUST BE PROTECTED DURING CONSTRUCTION.
- REMOVAL OF SOD, TREES, BUSHES AND OTHER VEGETATION AND SOIL DISTURBANCE WILL BE KEPT TO A MINIMUM WHILE ALLOWING PROPER SITE DEVELOPMENT.
- GRUBBINGS AND ANY UNUSABLE TOPSOIL SHALL BE STRIPPED AND REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN AN APPROVED MANNER.
- ANY SUITABLE TOPSOIL WILL BE STRIPPED AND STOCKPILED FOR REUSE IN FINAL GRADING. TOPSOIL WILL BE STOCKPILED IN A MANNER SUCH THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE WILL RESULT. IF A STOCKPILE IS NECESSARY, THE SIDE SLOPES OF THE TOPSOIL STOCKPILE WILL NOT EXCEED 2:1. TOPSOIL STOCKPILES WILL BE TEMPORARILY SEEDDED WITH AROOSTOOK RYE, ANNUAL OR PERENNIAL RYE GRASS WITHIN 7 DAYS OF FORMATION, OR TEMPORARILY MULCHED IF SEEDING CANNOT BE DONE WITHIN THE RECOMMENDED SEEDING DATES.
- TEMPORARY DIVERSION BERMS AND DRAINAGE SWALES SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT OFF-SITE DRAINAGE FROM ENTERING THE WORK AREA.
- TEMPORARY STABILIZATION SHALL BE CONSTRUCTED WITHIN 7 DAYS OF INITIAL DISTURBANCE OF SOILS, PRIOR TO ANY RAIN EVENT, AND PRIOR TO ANY WORK SHUT DOWN LASTING MORE THAN ONE DAY. TEMPORARY STABILIZATION INCLUDES SEED, MULCH, OR OTHER NON-ERODABLE COVER.
- TEMPORARY SEEDING SPECIFICATIONS: WHERE SEEDBED HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME, AND SEED. APPLY LIMESTONE AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET) AND 10-10-10 (N-P205-K20) FERTILIZER AT A RATE OF 600 LBS PER ACRE (13.8 LB. PER 1,000 SQUARE FEET), UNIFORMLY APPLY SEED AT THE RECOMMENDED SEEDING RATES AND DATES, APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRES, AND ANCHOR AS NECESSARY. RECOMMENDED TEMPORARY SEEDING DATES AND APPLICATION RATES ARE AS FOLLOWS:

AROOSTOOK RYE: RECOMMENDED SEEDING DATES: 8/15 -10/1

APPLICATION RATE: 112 LBS/ACRE

ANNUAL RYE GRASS: RECOMMENDED SEEDING DATES: 4/1 - 7/1

APPLICATION RATE: 40 LBS/ACRE

PERENNIAL RYE GRASS: RECOMMENDED SEEDING DATES: 8/15 - 9/15

APPLICATION RATE: 40 LBS/ACRE

NOTE: SEED MIXTURE SHALL CONSIST OF AT LEAST TWO VARIETIES OF EACH TYPE OF GRASS. WHEN USED IN A FILTER BASIN, STORMWATER SHALL NOT BE DIRECTED TO THE BASIN UNTIL THE GRASS IS ESTABLISHED.

- PERMANENT SEEDING SPECIFICATION. IF A LANDSCAPE PLAN HAS BEEN PREPARED FOR THE PROJECT, SOIL PREPARATION AND SEED SPECIFICATIONS OF THAT PLAN SHALL SUPERSEDE THESE GENERAL PERMANENT SEEDING REQUIREMENTS. IT IS RECOMMENDED THAT PERMANENT SEEDING BE COMPLETED BETWEEN APRIL 1 AND JUNE 15 OF EACH YEAR. LATE SEASON SEEDING MAY BE DONE BETWEEN AUGUST 15 AND SEPTEMBER 15. AREAS NOT SEEDDED OR WHICH DO NOT OBTAIN A SATISFACTORY GROWTH BY OCTOBER 1 SHALL BE SEEDDED WITH AROOSTOOK RYE OR MULCHED AT RATES PREVIOUSLY SPECIFIED. SEE WINTER CONDITIONS NOTES FOR SEEDING STABILIZATION AFTER NOVEMBER 1.
  - APPLY TOPSOIL TO A MINIMUM DEPTH OF 4 INCHES. MIX TOPSOIL WITH THE SUBSOIL TO A MINIMUM DEPTH OF 6 INCHES.
  - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS. IN LIEU OF SOIL TESTS, APPLY GROUND LIMESTONE AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET) AND GRANULAR, COMMERCIAL-GRADE, 10-10-10 (N-P205-K20) FERTILIZER AT A RATE OF 800 LBS PER ACRE (18.4 LBS PER1,000 SQUARE FEET).
  - UNIFORMLY APPLY SEED MIXTURE AT THE RECOMMENDED SEEDING RATES AND DATES, APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRES, AND ANCHOR AS NECESSARY.
  - THE SEED MIXTURE FOR LAWN AND FILTRATION BASIN AREAS SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:
    - 30% CREEPING RED FESCUE
    - 50% KENTUCKY BLUEGRASS
    - 20% ITALIAN/PERENNIAL RYE GRASS
- MULCH ALL AREAS SEEDDED SO THAT SOIL IS NOT VISIBLE THROUGH THE MULCH REGARDLESS OF THE APPLICATION RATE.
- DITCH LININGS, STONE CHECK DAMS, AND RIP RAP INLET AND OUTLET PROTECTION SHALL BE INSTALLED WITHIN 48 HOURS OF COMPLETING THE GRADING OF THAT SECTION OF DITCH OR INSTALLATION OF CULVERT.
- RIP RAP REQUIRED AT CULVERTS AND STORM DRAIN INLETS AND OUTLETS SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE.
- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL PERMANENT SLOPES STEEPER THAN 15%, IN THE BASE OF DITCHES NOT OTHERWISE PROTECTED, AND ANY DISTURBED AREAS WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE (E.G. WETLANDS AND WATER BODIES). EROSION CONTROL BLANKET SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- TEMPORARY CONTROL MEASURES, SUCH AS SILT FENCE, SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

C.SPECIAL MEASURES FOR SUMMER CONSTRUCTION

DURING DRY SUMMER CONDITIONS, THE CONTRACTOR SHALL:

- IMPLEMENT A PROGRAM TO APPLY DUST CONTROL MEASURES ON A DAILY BASIS EXCEPT THOSE DAYS WHERE PRECIPITATION IS SUFFICIENT TO SUPPRESS DUST FORMATION. THIS PROGRAM SHALL EXTEND TO AND INCLUDE SWEEPING OF ADJACENT STREETS.
- SPRAY ANY MULCHES WITH WATER AFTER ANCHORING TO DAMPEN THE SOIL AND ENCOURAGE EARLY GROWTH. SPRAYING MAY BE REQUIRED SEVERAL TIMES. TEMPORARY SEED MAY BE REQUIRED UNTIL THE LATE SUMMER SEEDING SEASON.
- COVER STOCKPILES OF FINE-GRAINED MATERIALS, OR EXCAVATED SOILS WHICH ARE SUSCEPTIBLE TO EROSION TO PROTECT FROM THE INTENSE, SHORT-DURATION STORMS WHICH ARE MORE PREVALENT IN THE SUMMER MONTHS.
- TAKE ADDITIONAL STEPS NEEDED, INCLUDING WATERING, OR COVERING EXCAVATED MATERIALS TO CONTROL FUGITIVE DUST EMISSIONS TO MINIMIZE REDUCTIONS IN VISIBILITY AND THE AIRBORNE DISBURSEMENT OF FINE-GRAINED SOILS. THIS IS PARTICULARLY IMPORTANT GIVEN THE POTENTIAL PRESENCE OF SOIL CONTAMINANTS, AND THEIR PROXIMITY ALONG THE ADJACENT STREETS AND PROPERTIES.
- THESE MEASURES MAY ALSO BE REQUIRED IN THE SPRING AND FALL DURING THE DRIER PERIODS OF THESE SEASONS.

D.WINTER CONDITIONS

- "WINTER CONSTRUCTION" IS CONSTRUCTION ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1ST THROUGH APRIL 15TH. IF AREAS WITHIN THE CONSTRUCTION ACTIVITY ARE NOT STABILIZED WITH TEMPORARY OR PERMANENT MEASURES OUTLINED ABOVE BY NOVEMBER 15TH, THEN THE SITE MUST BE PROTECTED WITH ADDITIONAL STABILIZATION MEASURES THAT ARE SPECIFIC TO WINTER CONDITIONS. NO MORE THAN ONE ACRE OF THE SITE MAY BE WITHOUT STABILIZATION AT ONE TIME.
- SILT FENCE: IN LIEU OF PROVIDING THE 4" X 4" TRENCH, FOR FROZEN GROUND, STONY SOIL, THE PRESENCE OF LARGE ROOTS, OR OTHER PROHIBITIVE CONDITIONS, THE BOTTOM 8" TO 12" OF THE FABRIC MAY BE LAID ON EXISTING GRADE AND BACK FILLED WITH STONE ANCHORING MATERIAL, AS SHOWN ON THE DRAWINGS.
- HAY MULCH SHALL BE APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE. AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.
- AFTER NOVEMBER 1ST OR THE FIRST KILLING FROST FOR THE REGION AND BEFORE SNOW FALL, ALL EXPOSED AND DISTURBED AREAS NOT TO UNDERGO FURTHER DISTURBANCE ARE TO HAVE DORMANT SEEDING. THE DORMANT SEEDING METHOD: PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED PERMANENT SEED MIXTURE AT DOUBLE THE REGULAR SEEDING RATE, AND MULCH AND ANCHOR. DORMANT SEEDINGS NEED TO BE ANCHORED EXTREMELY WELL ON SLOPES, DITCH BASES AND AREAS OF CONCENTRATED FLOWS. DORMANT SEEDING REQUIRES INSPECTION AND RESEEDING AS NEEDED IN THE SPRING. ALL AREAS WHERE COVER IS INADEQUATE MUST BE IMMEDIATELY RESEEDDED AND MULCHED AS SOON AS POSSIBLE.
- ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1ST, OR WILL BE WORKED DURING THE WINTER CONSTRUCTION PERIOD, MUST BE STABILIZED WITH AN APPROPRIATE STONE LINING BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE UNLESS SPECIFICALLY RELEASED FROM THIS STANDARD BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- MULCH NETTING MUST BE USED TO ANCHOR MULCH ON ALL SLOPES GREATER THAN 8% UNLESS EROSION CONTROL BLANKETS OR EROSION CONTROL MIX IS BEING USED ON THESE SLOPES.

D.HOUSEKEEPING

- SPILL PREVENTION. CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON-SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORM WATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
- GROUNDWATER PROTECTION. DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS, ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.

3. FUGITIVE SEDIMENT AND DUST. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL.

4. DEBRIS AND OTHER MATERIAL. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER, MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.

5. COMPLY WITH THE REQUIREMENTS OF SPECIFICATION SECTION 024116, STRUCTURE DEMOLITION MANAGEMENT, FOR REMOVAL AND DISPOSAL OF CONSTRUCTION DEBRIS AND WASTE.

6. TRENCH OR FOUNDATION DE-WATERING. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED AREAS THAT ARE SPECIFICALLY DESIGNATED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFER DAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE.

E. INSPECTION AND MAINTENANCE

1. INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION AND STORM WATER CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE A WEEK AND BEFORE AND AFTER A STORM EVENT, PRIOR TO COMPLETION OF PERMANENT STABILIZATION. A PERSON WITH KNOWLEDGE OF EROSION AND STORM WATER CONTROLS, INCLUDING THE STANDARDS IN THE MAINE CONSTRUCTION GENERAL PERMIT AND ANY DEP OR MUNICIPAL COMPANION DOCUMENTS, MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF BEST MANAGEMENT PRACTICES (BMPS) NEED TO BE MODIFIED IF ADDITIONAL 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.

2. AN INSPECTION AND MAINTENANCE LOG MUST BE KEPT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME AND QUALIFICATIONS OF THE PERSON PERFORMING THE INSPECTION, DATE, AND MAJOR OBSERVATIONS RELATING TO OPERATION OF EROSION AND SEDIMENTATION CONTROLS AND POLLUTION PREVENTION MEASURES.

3. INSPECTION OF THE PROJECT WORK SITE SHALL INCLUDE:

- IDENTIFICATION OF PROPER EROSION CONTROL MEASURE INSTALLATION IN ACCORDANCE WITH THE EROSION CONTROL DETAIL SHEET.
- DETERMINE WHETHER EACH EROSION CONTROL MEASURE IS PROPERLY OPERATING. IF NOT, IDENTIFY DAMAGE TO THE CONTROL DEVICE AND DETERMINE REMEDIAL MEASURES.
- IDENTIFY AREAS WHICH APPEAR VULNERABLE TO EROSION AND DETERMINE ADDITIONAL EROSION CONTROL MEASURES WHICH SHOULD BE USED TO IMPROVE CONDITIONS.
- INSPECT AREAS OF RECENT SEEDING TO DETERMINE PERCENT CATCH OF GRASS. A MINIMUM CATCH OF 90 PERCENT IS REQUIRED PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

4. IF INSPECTION OF THE SITE INDICATES A CHANGE SHOULD BE MADE TO THE EROSION CONTROL PLAN, TO EITHER IMPROVE EFFECTIVENESS OR CORRECT A SITE-SPECIFIC DEFICIENCY, THE INSPECTOR SHALL IMMEDIATELY IMPLEMENT THE CORRECTIVE MEASURE AND NOTIFY THE OWNER OF THE CHANGE.

5. ALL CERTIFICATIONS, INSPECTION FORMS, AND WRITTEN REPORTS PREPARED BY THE INSPECTOR(S) SHALL BE FILED WITH THE OWNER, AND THE PERMIT FILE CONTAINED ON THE PROJECT SITE. ALL WRITTEN CERTIFICATIONS, INSPECTION FORMS, AND WRITTEN REPORTS MUST BE FILED WITHIN ONE (1) WEEK OF THE INSPECTION DATE.

6. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLYING WITH THE EROSION/SEDIMENT CONTROL REPORT, INCLUDING CONTROL OF FUGITIVE DUST, AND SHALL BE RESPONSIBLE FOR ANY MONETARY PENALTIES RESULTING FROM FAILURE TO COMPLY WITH THESE STANDARDS.

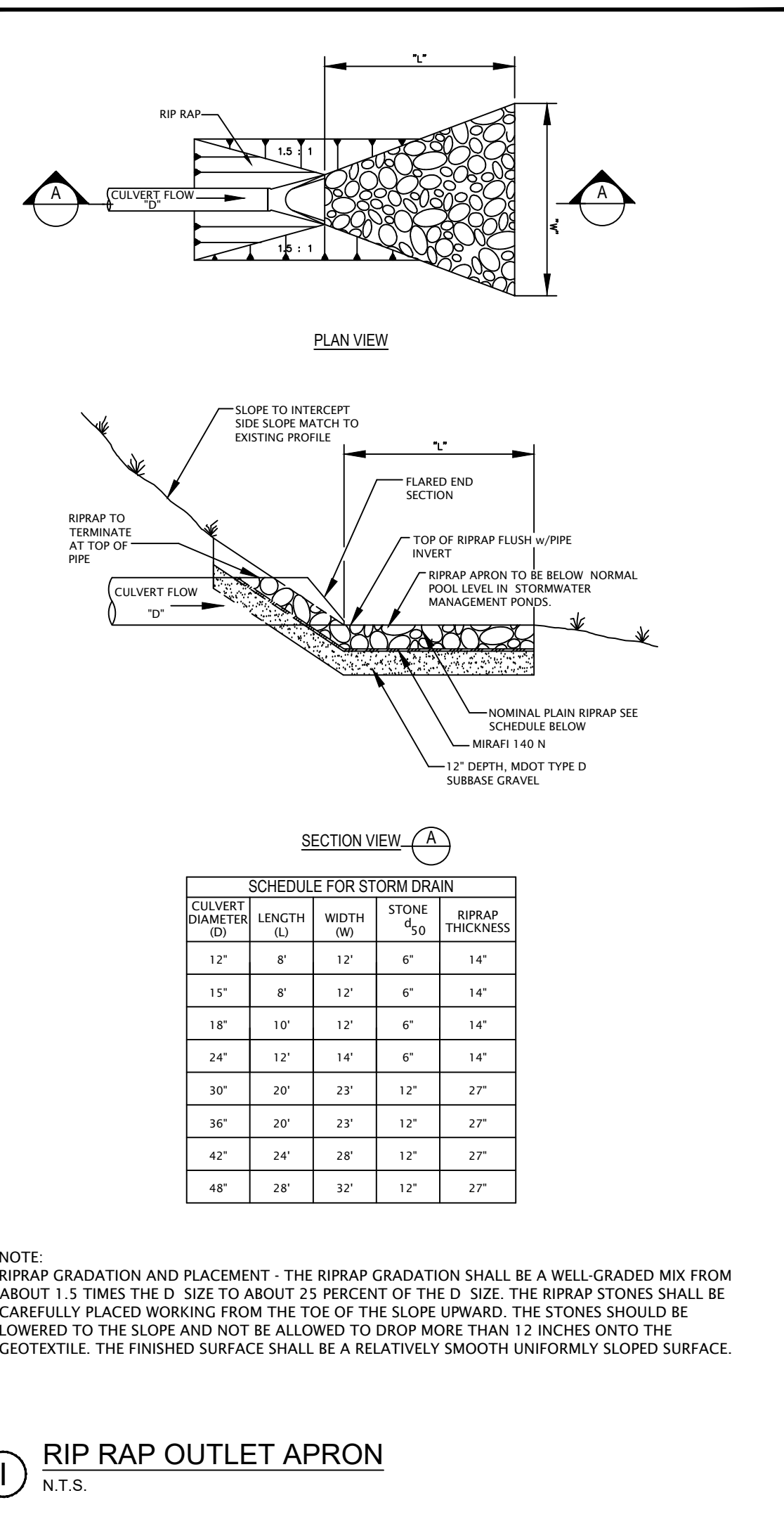
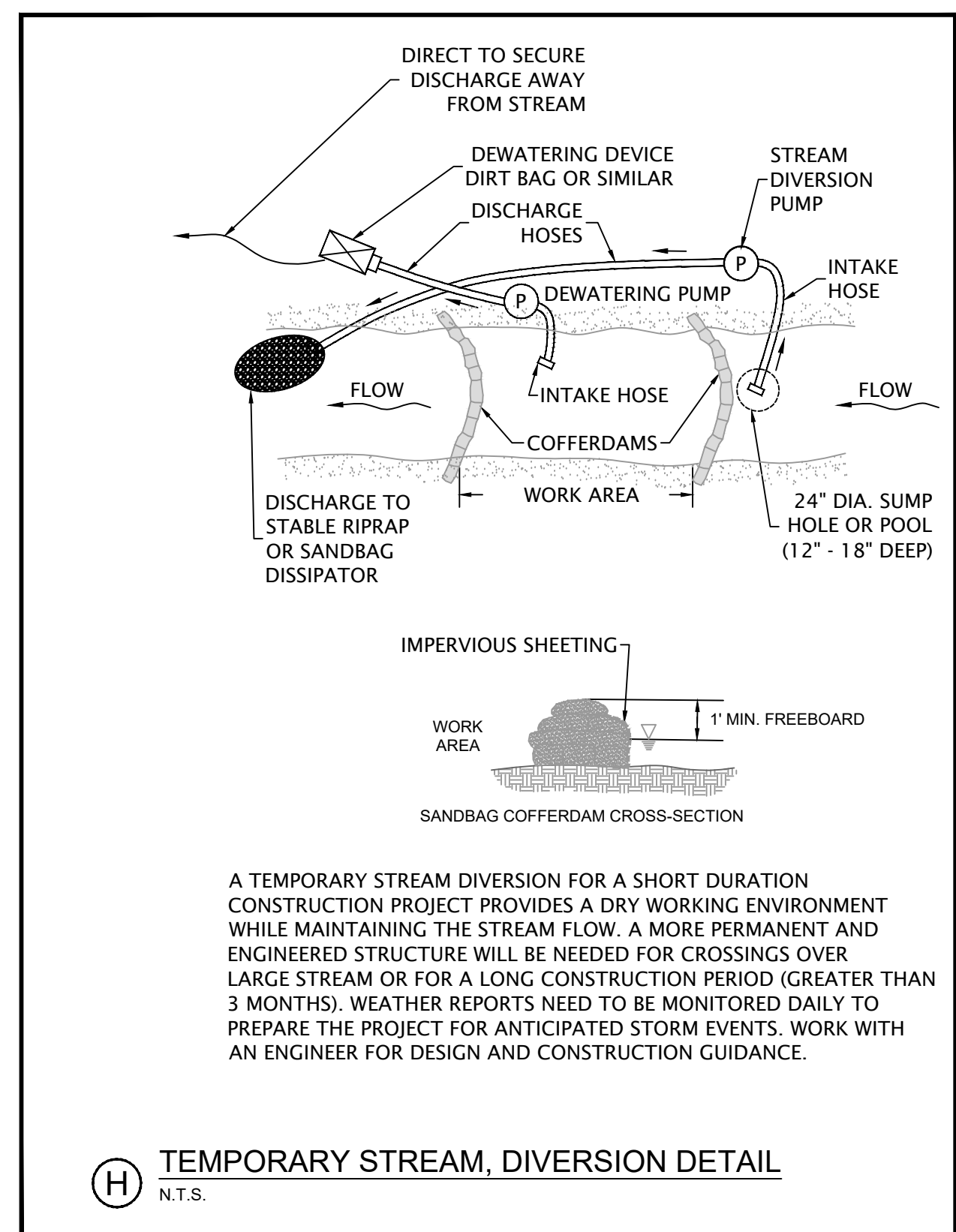
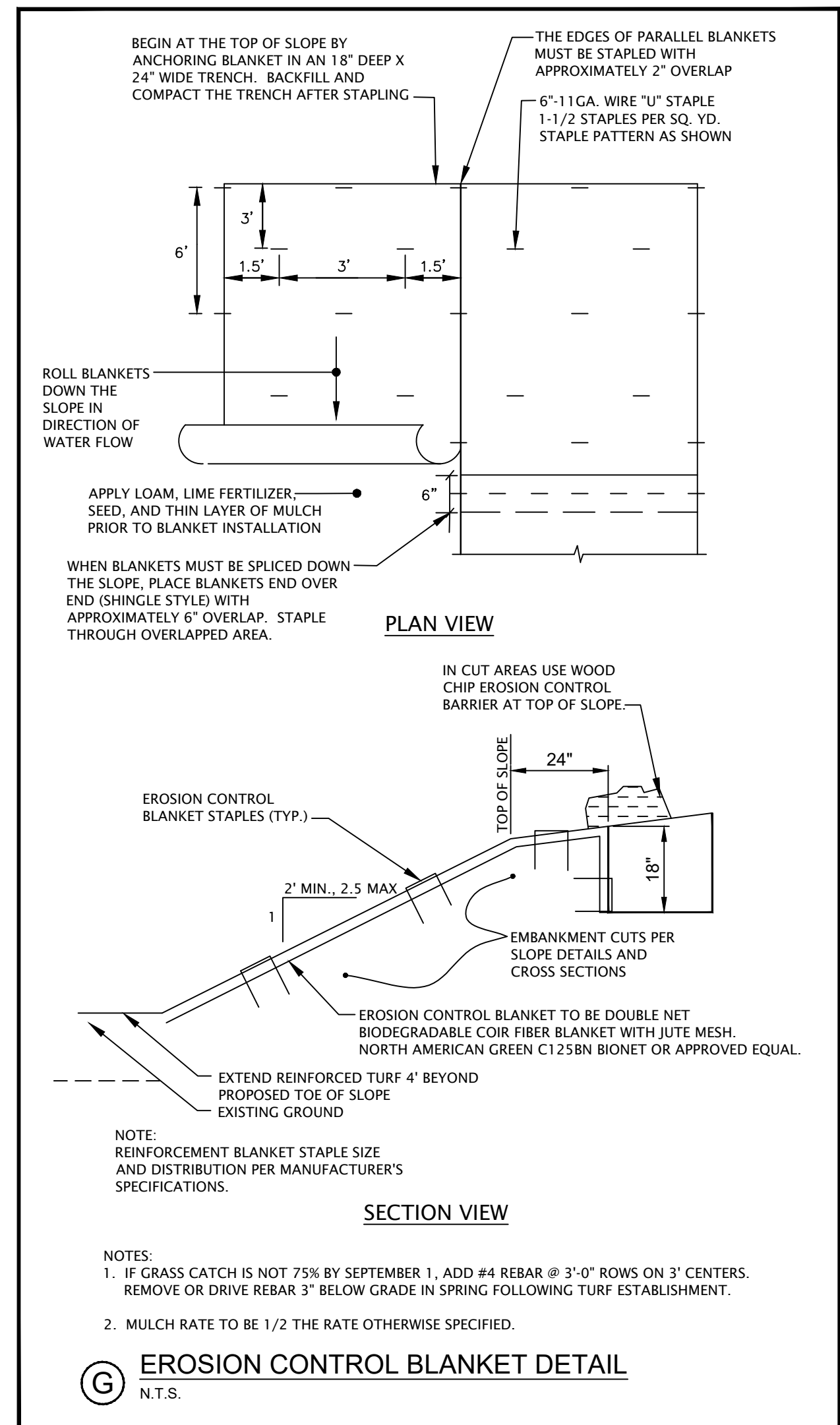
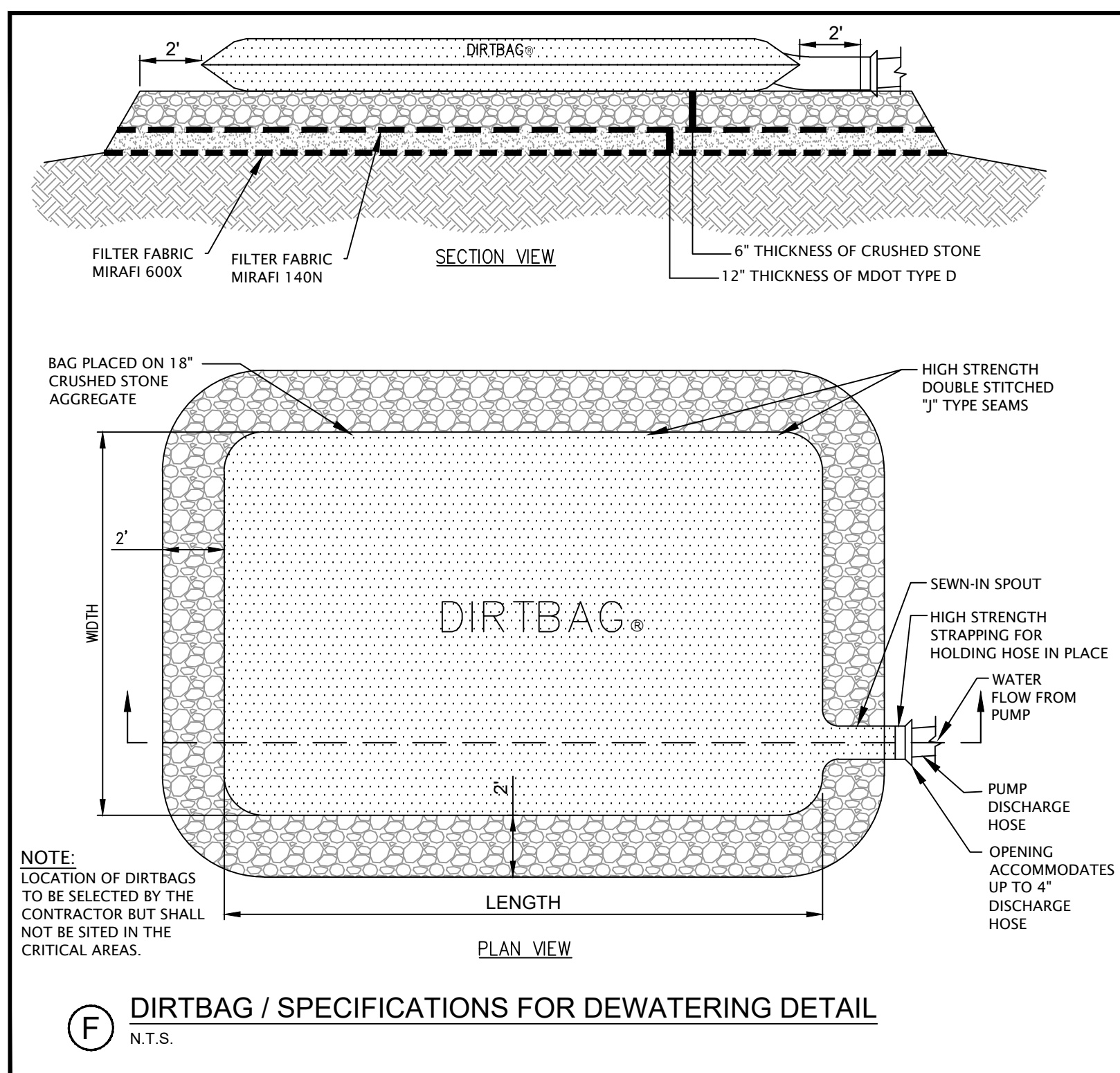
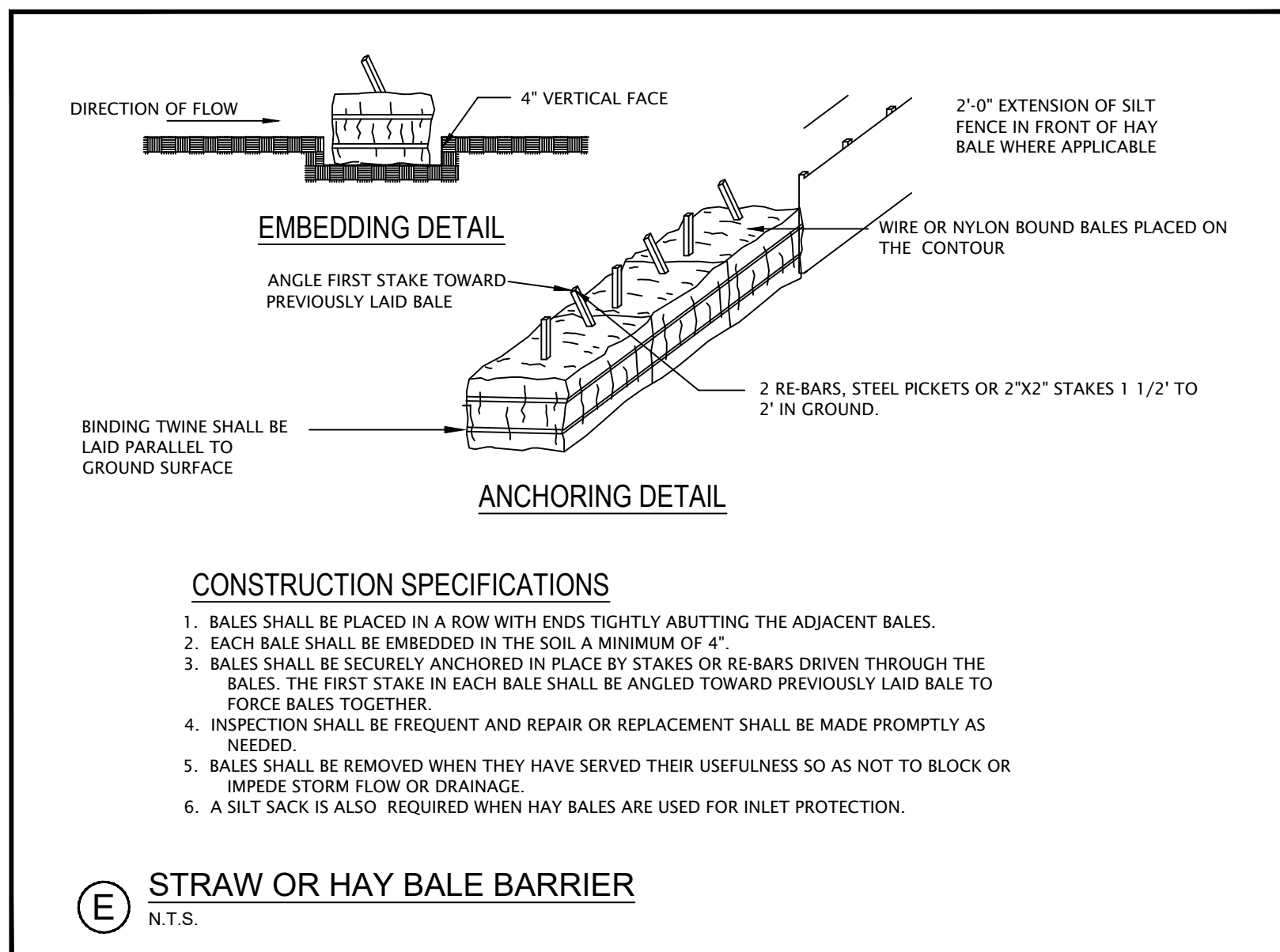
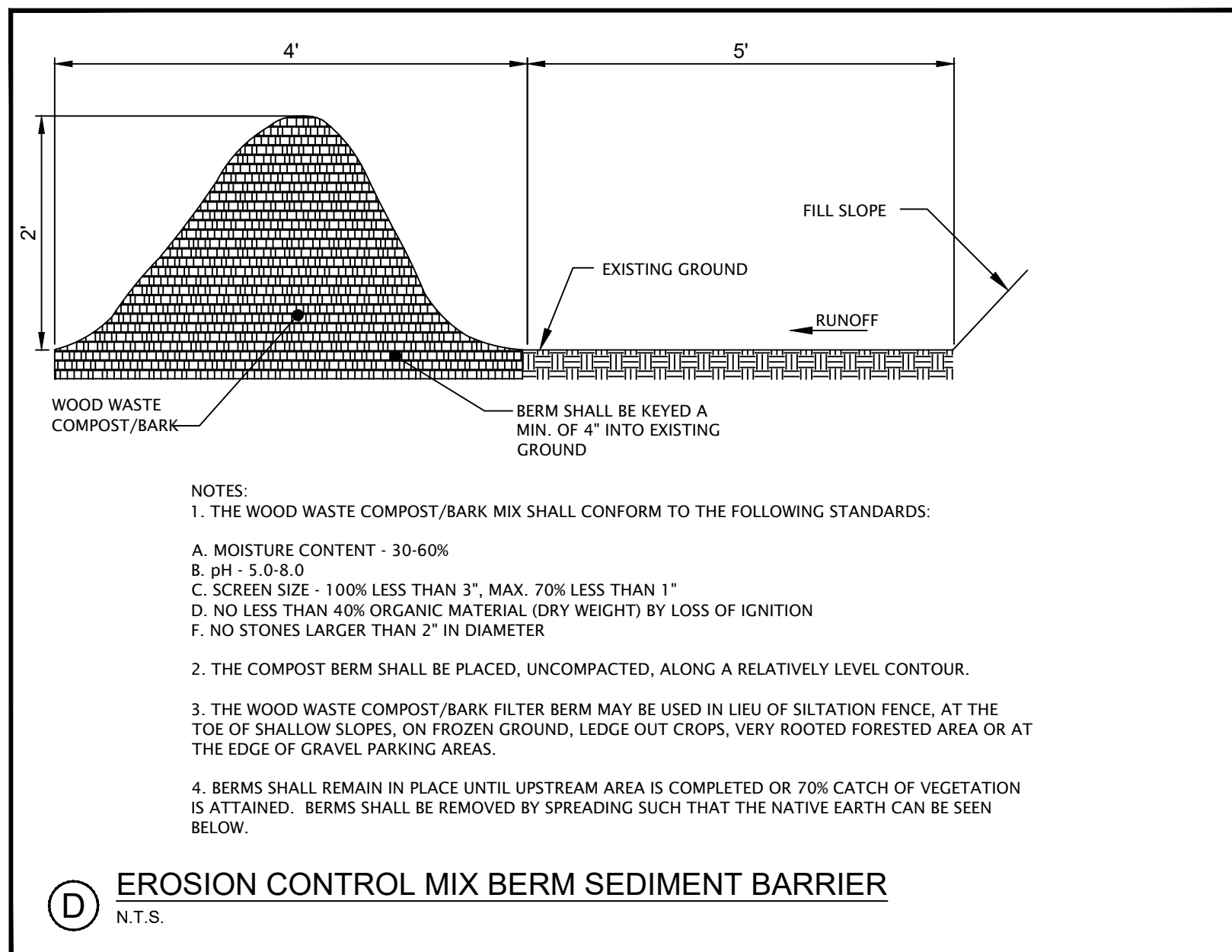
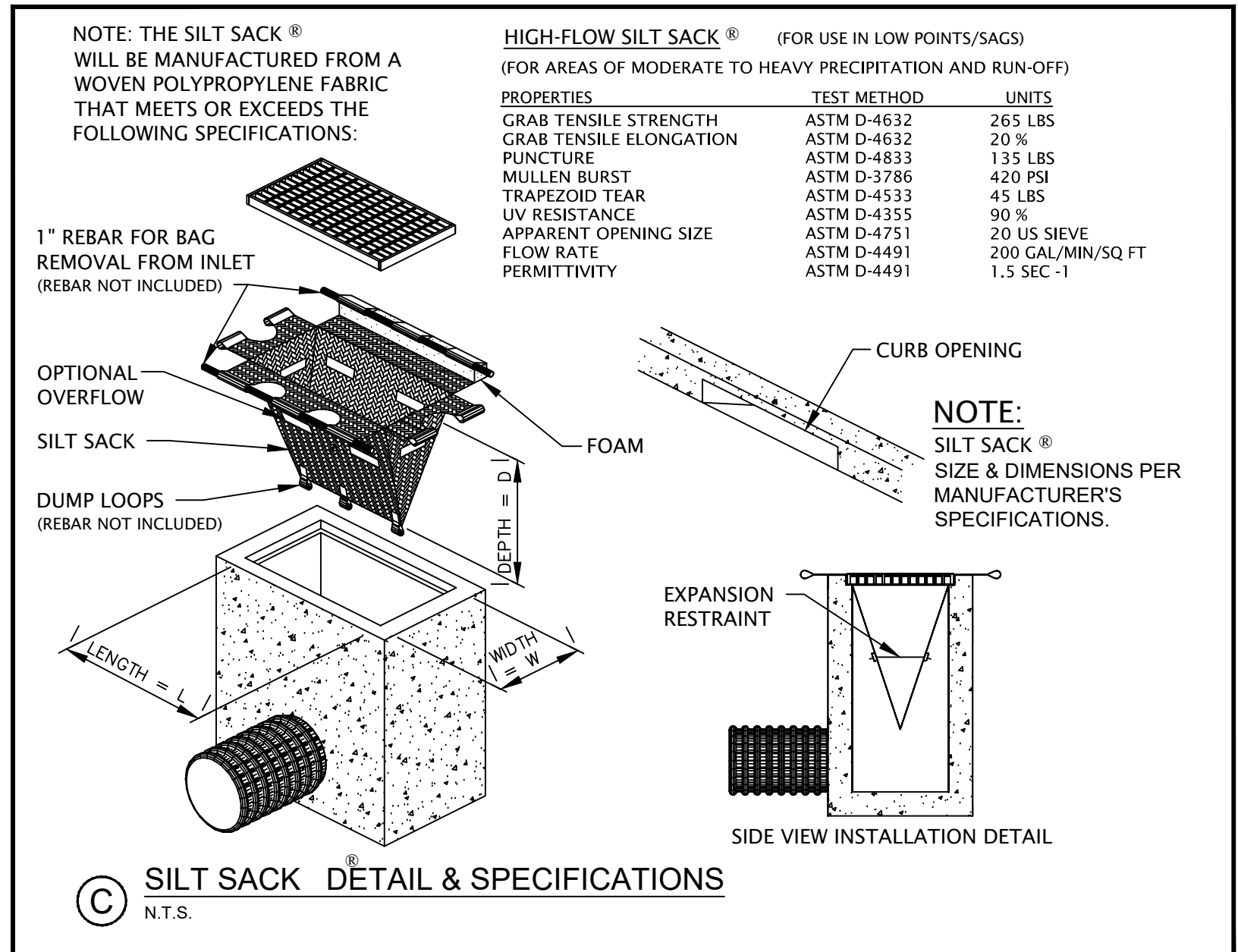
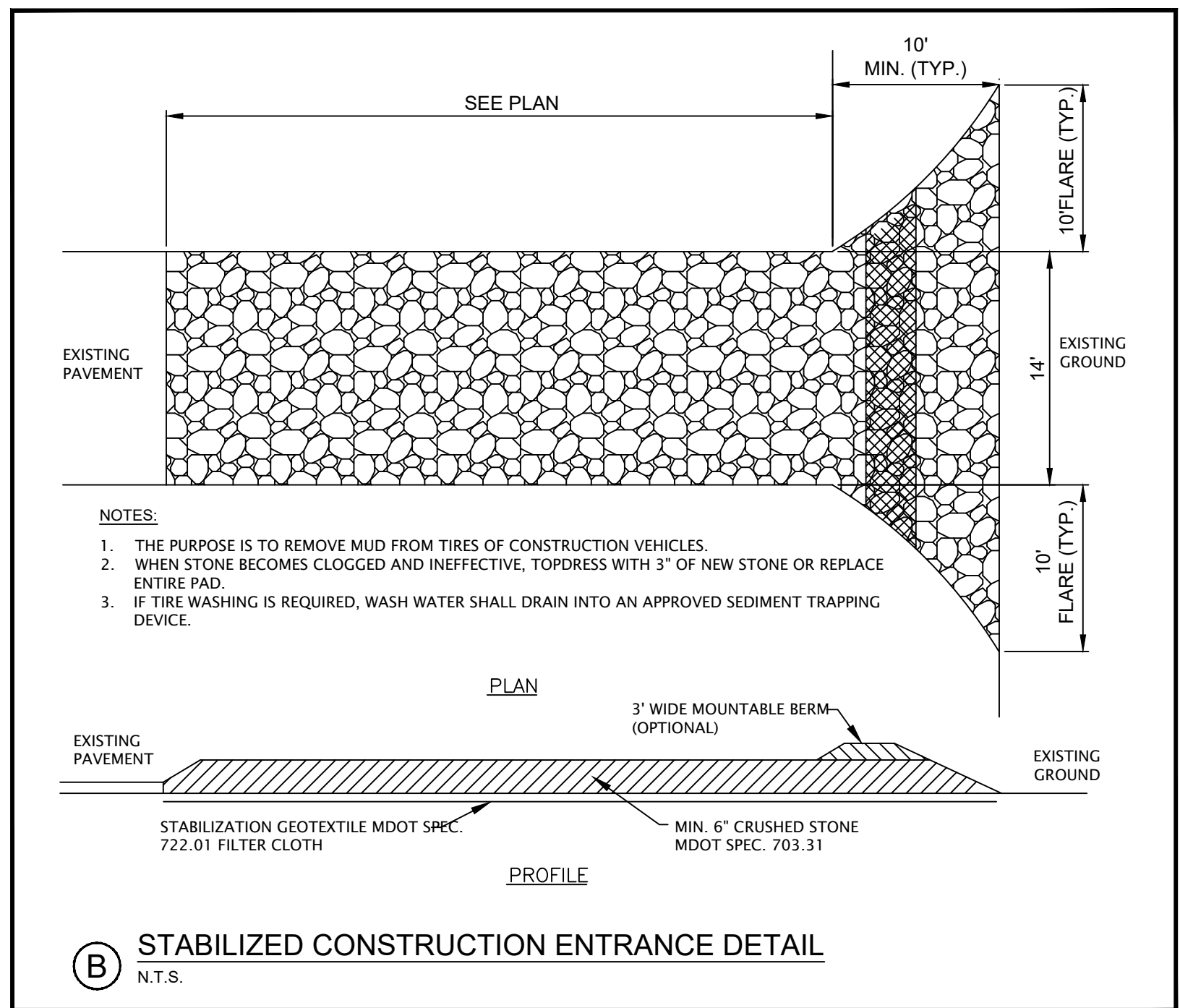
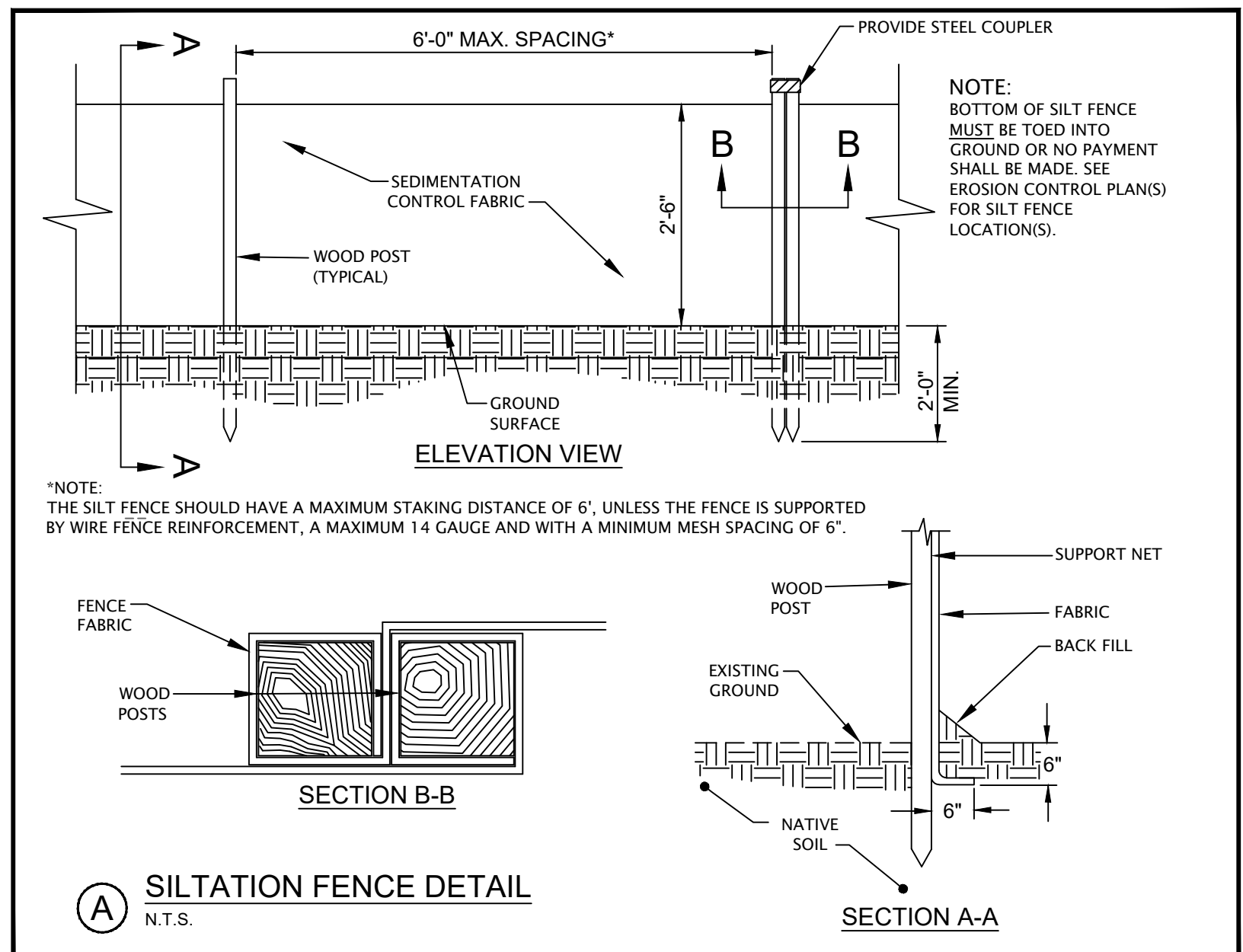
F. CONSTRUCTION SCHEDULE & SEQUENCE

(TIMELINES ARE APPROXIMATE AND WILL BE DEPENDENT ON WEATHER AND SITE CONDITIONS).

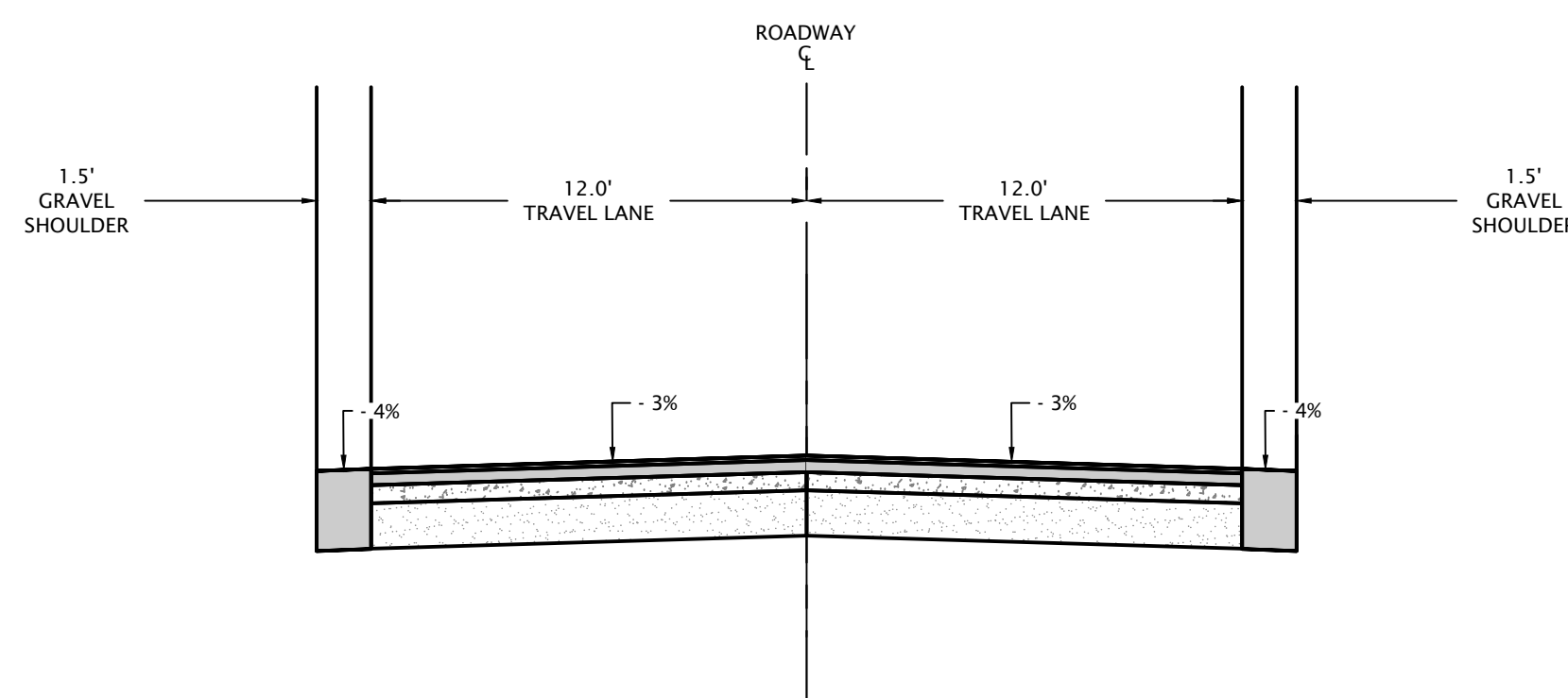
1. PRE-CONSTRUCTION CONFERENCE: PRIOR TO ANY CONSTRUCTION AT THE SITE, REPRESENTATIVES OF THE CONTRACTOR, THE ENGINEER, AND THE TOWN, SHALL MEET TO DISCUSS THE SCHEDULING OF THE SITE CONSTRUCTION AND THE DESIGNATION OF THE RESPONSIBLE PARTIES FOR IMPLEMENTING THE PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE MEETING. PRIOR TO THE MEETING, THE CONTRACTOR WILL PREPARE A DETAILED SCHEDULE AND A MARKED-UP SITE PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL CONDUCT A MEETING WITH EMPLOYEES AND SUB-CONTRACTORS TO REVIEW THE EROSION CONTROL PLAN, THE CONSTRUCTION TECHNIQUES WHICH WILL BE EMPLOYED TO IMPLEMENT THE PLAN, AND PROVIDE A LIST OF ATTENDEES AND ITEMS DISCUSSED AT THE MEETING TO THE OWNER. THREE COPIES OF THE SCHEDULE, THE CONTRACTOR'S MEETING MINUTES, AND MARKED-UP SITE PLAN SHALL BE PROVIDED TO THE OWNER.

<div>ISSUED FOR BID</div>				MITCHELL HILL ROAD			Atlantic Resource Consultants	
				SCARBOROUGH			541 US Route One	
			P.E. ANDREW D. JOHNSTON LIC. #9994	EROSION & SEDIMENTATION		DRAWN: MPV DESIGNED: ADJ CHECKED: MPV/ADJ FILE NAME:	DATE: DECEMBER 2021	
				CONTROL NOTES			SCALE: N.T.S.	
REV    DATE    DESCRIPTION			REVISIONS	TOWN OF SCARBOROUGH		SHEET: C-400	JOB NO.	
				259 US ROUTE ONE SCARBOROUGH, MAINE 04074				







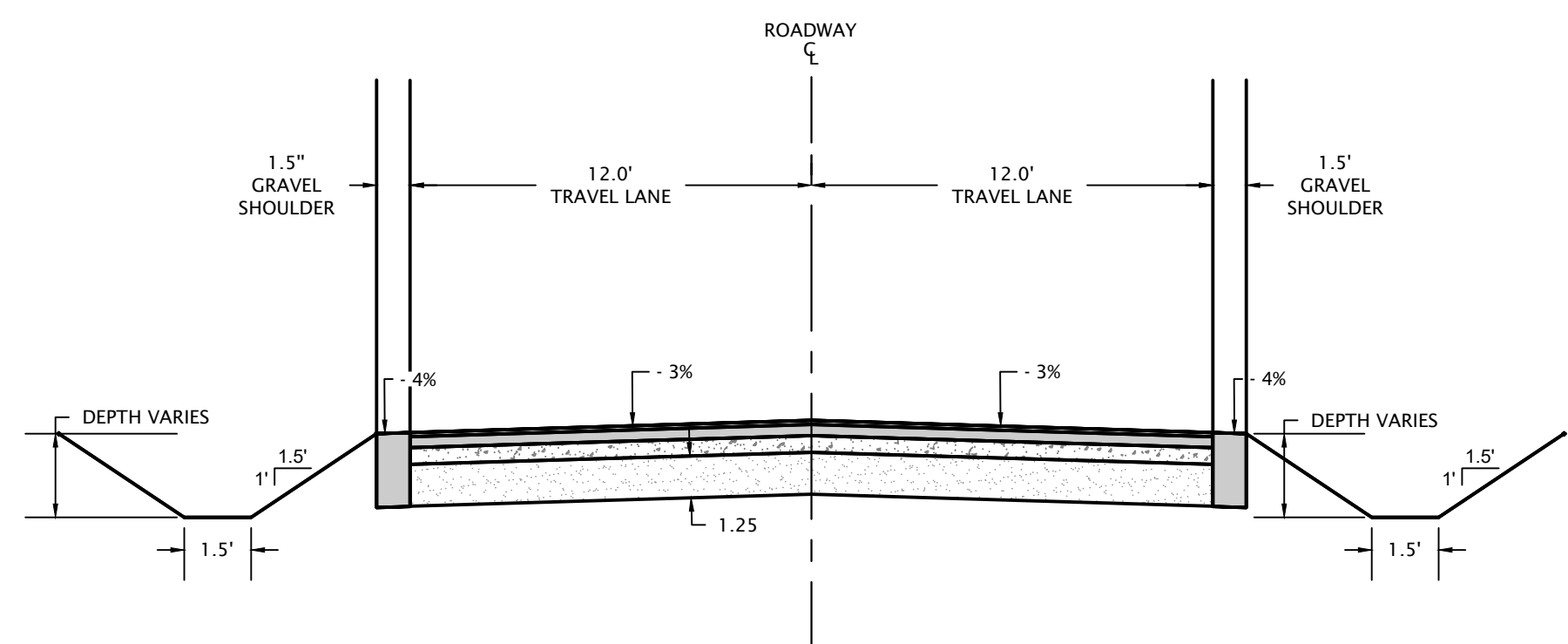


**A BASIC ROADWAY SECTION DETAIL**

SCALE: 1" = 5' APPLIES STA 0+00 - STA 1+75  
STA 24+00 - STA 27+50  
STA 50+00 - STA 56+50

**NOTES:**

1. THIS TYPICAL SECTION DOES NOT REFLECT SUPERELEVATION, WHICH APPLIES ON SOME SECTIONS - SEE PLAN VIEWS
2. SHOULDERS WIDENED TO 3FT AT GUARDRAIL LOCATIONS

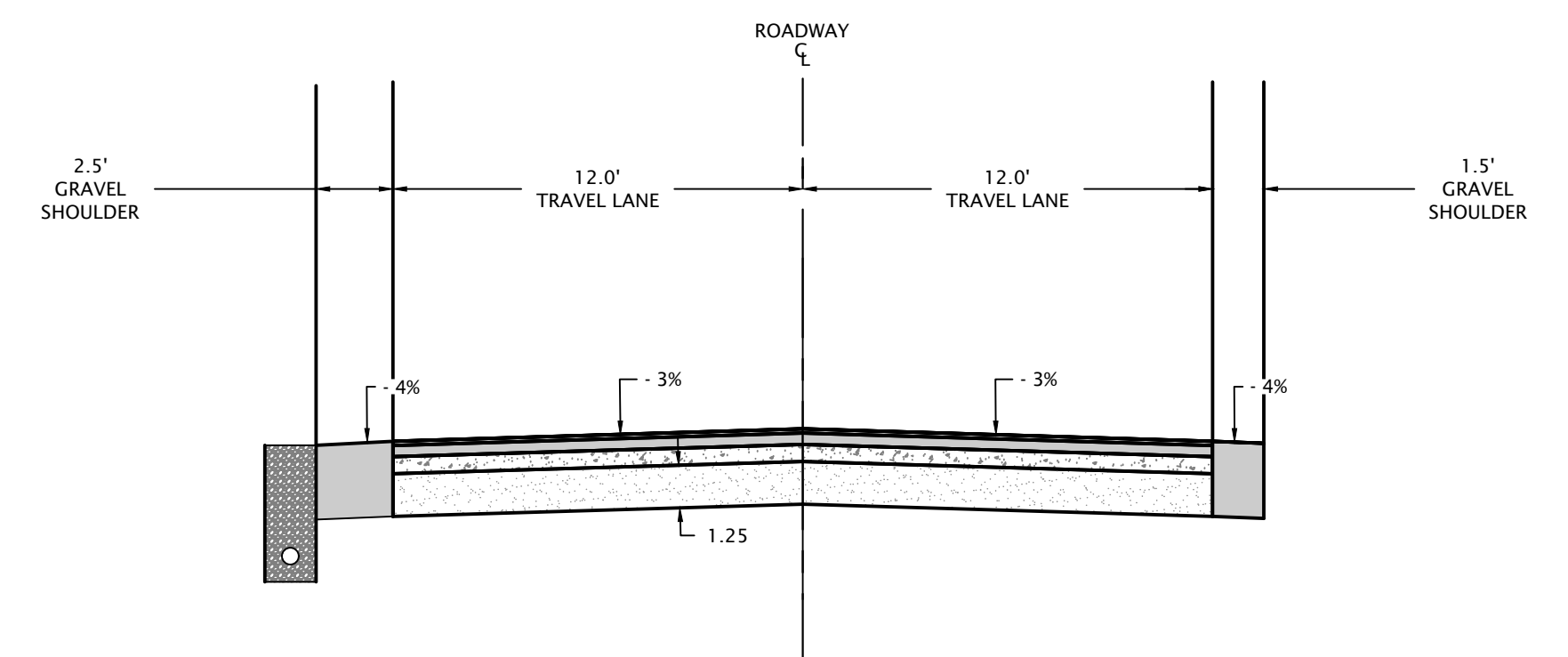


**B DITCH RIGHT & LEFT ROADWAY SECTION DETAIL**

SCALE: 1" = 5' APPLIES STA 1+75 - STA 18+00  
STA 27+50 - STA 30+00 (L ONLY)  
STA 30+00 - STA 47+45

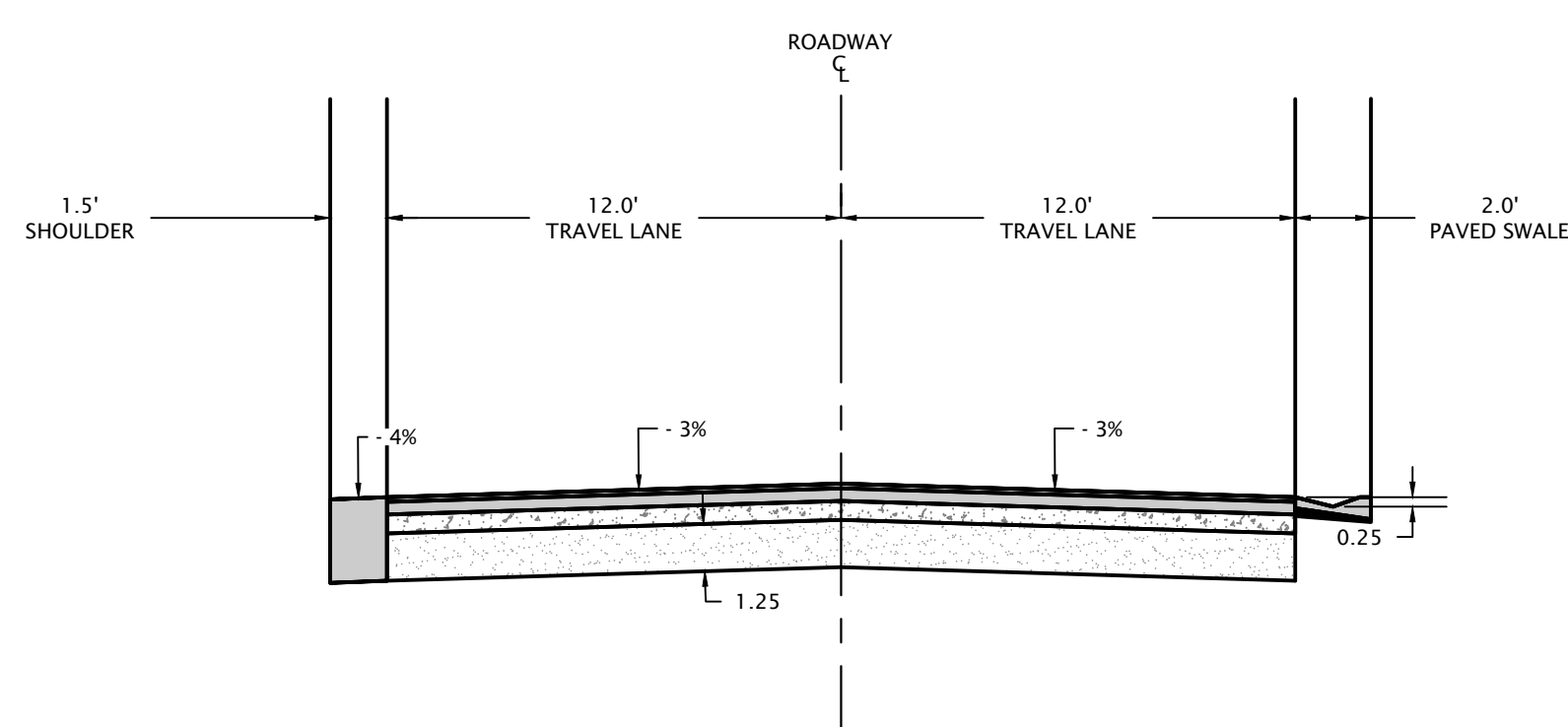
**NOTES:**

1. THIS TYPICAL SECTION DOES NOT REFLECT MODIFICATIONS MADE AT INTERSECTIONS AND TO MATCH EXISTING CONDITIONS AT ROADWAY EDGES - SEE PLAN VIEWS.
2. SHOULDERS WIDENED TO 3FT AT GUARDRAIL LOCATIONS



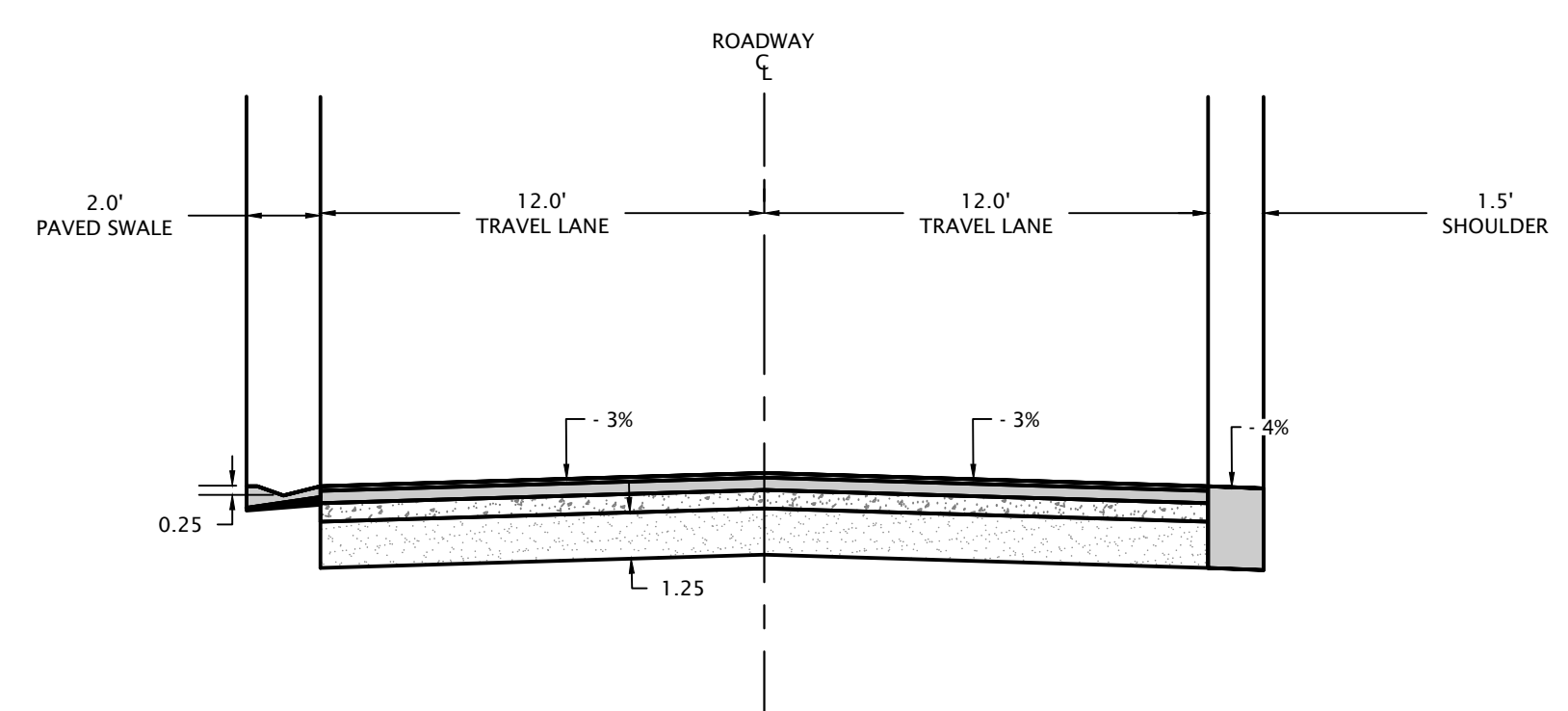
**C UNDERDRAINED ROADWAY SECTION DETAIL**

SCALE: 1" = 5' APPLIES STA 18+00 - STA 24+00



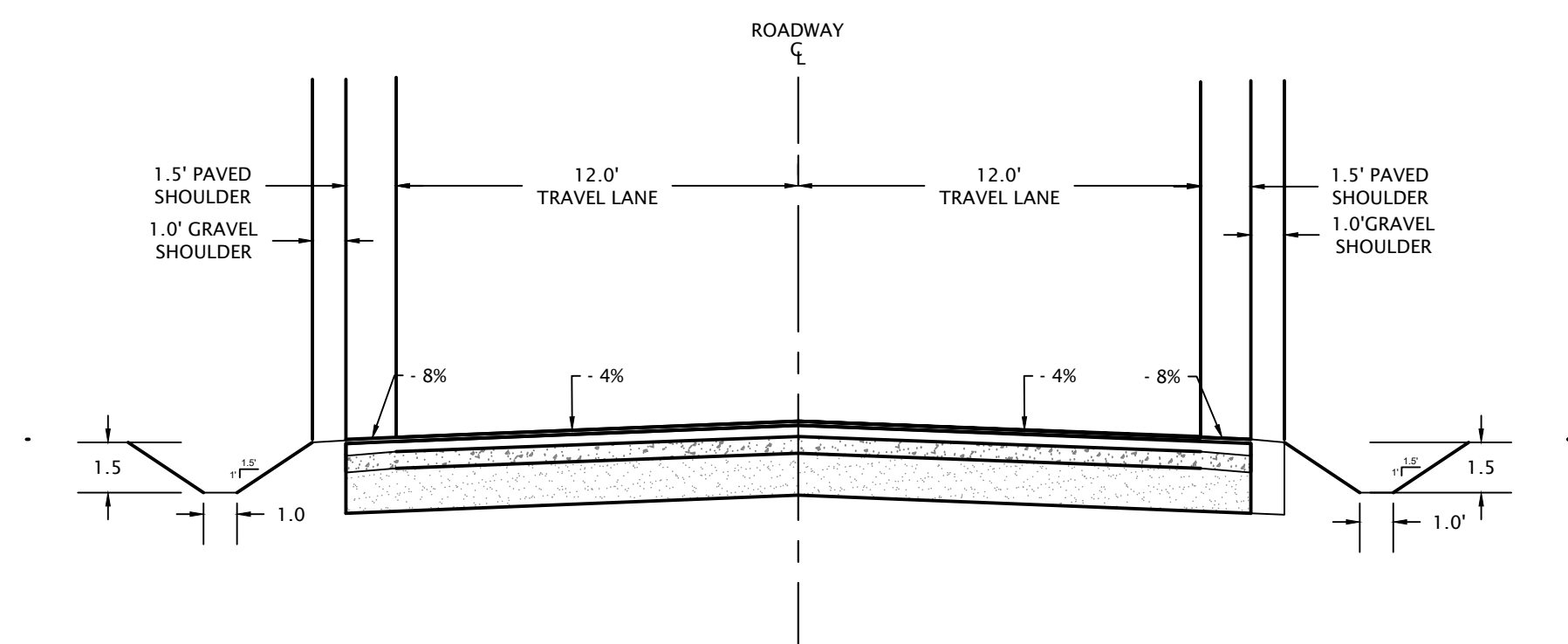
**D PAVED SWALE RIGHT ROADWAY SECTION DETAIL**

SCALE: 1" = 5' APPLIES STA 47+45 - STA 49+00



**E PAVED SWALE LEFT ROADWAY SECTION DETAIL**

SCALE: 1" = 5' APPLIES STA 49+00 - STA 50+00



**F STEEP SECTIONS ROADWAY DETAIL**

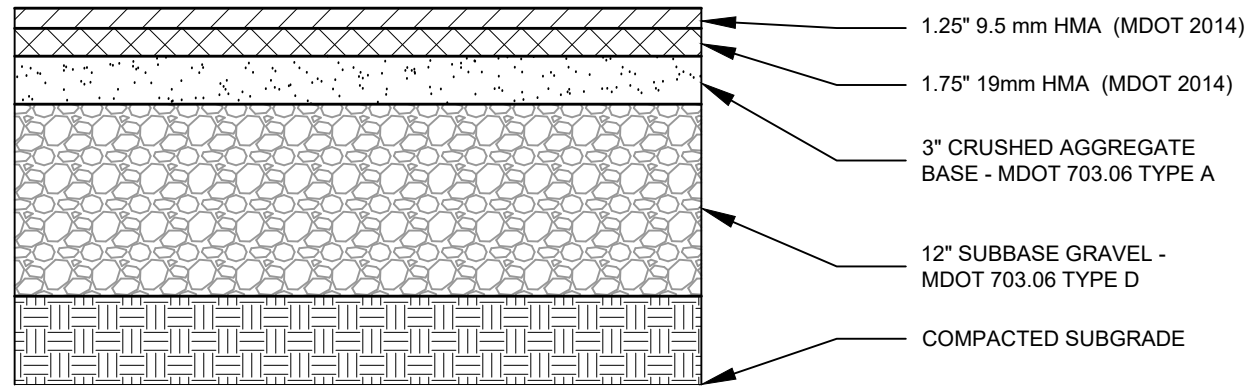
SCALE: 1" = 5' APPLIES STA 56+50 - STA 67+36

**NOTES:**

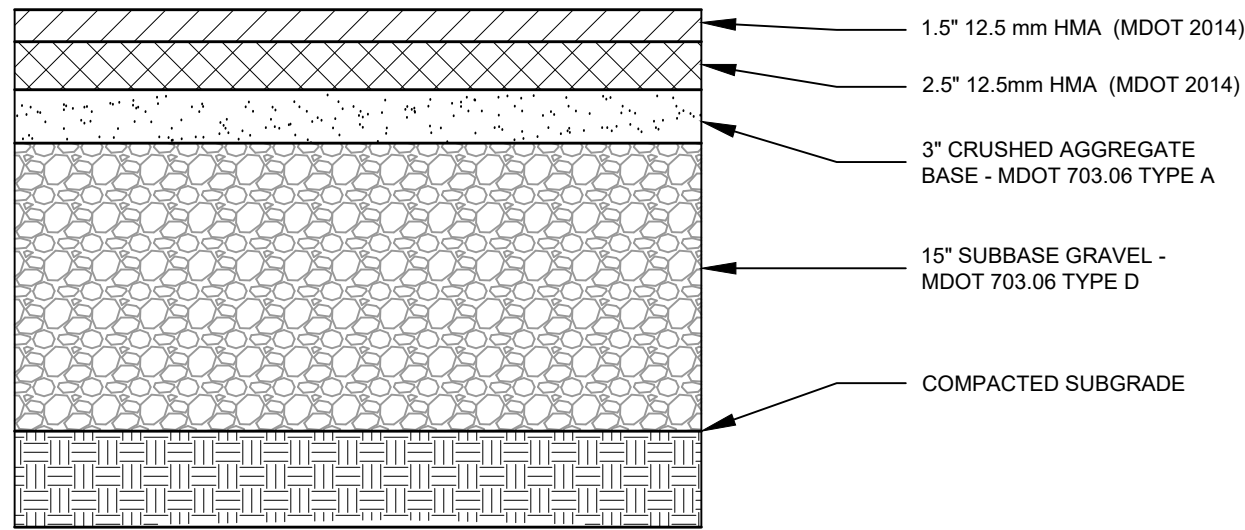
1. THIS TYPICAL SECTION DOES NOT REFLECT MODIFICATIONS MADE AT INTERSECTIONS AND TO MATCH EXISTING CONDITIONS AT ROADWAY EDGES - SEE PLAN VIEWS.

<b>ISSUED FOR BID</b>		<b>MITCHELL HILL ROAD SCARBOROUGH ROADWAY RECONSTRUCTION DETAILS I</b>		 <b>Atlantic Resource Consultants</b> 541 US Route One Freeport, ME 04032 Tel: 207.869.9050																	
		TOWN OF SCARBOROUGH 259 US ROUTE ONE SCARBOROUGH, MAINE 04074	<table border="1"><tr><td>DRAWN:</td><td>MPV</td><td>DATE:</td><td>DECEMBER 2021</td></tr><tr><td>DESIGNED:</td><td>ADJ</td><td>SCALE:</td><td>AS SHOWN</td></tr><tr><td>CHECKED:</td><td>MPV/ADJ</td><td>JOB NO.</td><td></td></tr><tr><td>FILE NAME:</td><td colspan="3"></td></tr><tr><td>SHEET:</td><td colspan="3">C-402</td></tr></table>		DRAWN:	MPV	DATE:	DECEMBER 2021	DESIGNED:	ADJ	SCALE:	AS SHOWN	CHECKED:	MPV/ADJ	JOB NO.		FILE NAME:				SHEET:
DRAWN:	MPV	DATE:	DECEMBER 2021																		
DESIGNED:	ADJ	SCALE:	AS SHOWN																		
CHECKED:	MPV/ADJ	JOB NO.																			
FILE NAME:																					
SHEET:	C-402																				
<table border="1"><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td colspan="3">REVISIONS</td></tr></table>	REV	DATE	DESCRIPTION	REVISIONS			P.E. ANDREW D. JOHNSTON LIC. #9994														
REV	DATE	DESCRIPTION																			
REVISIONS																					

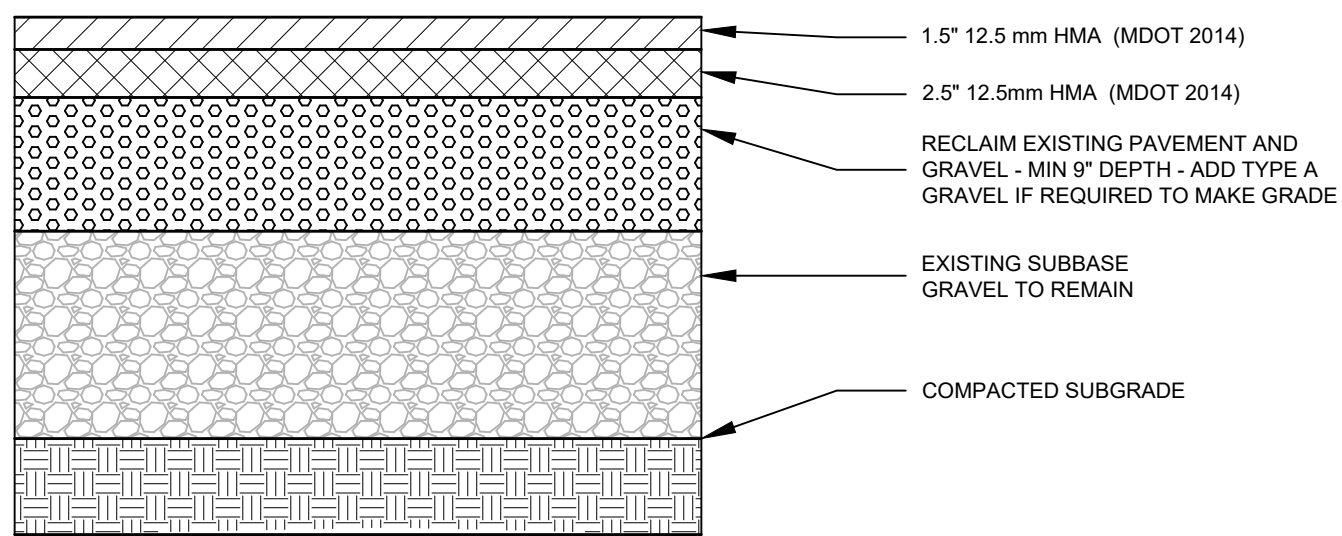




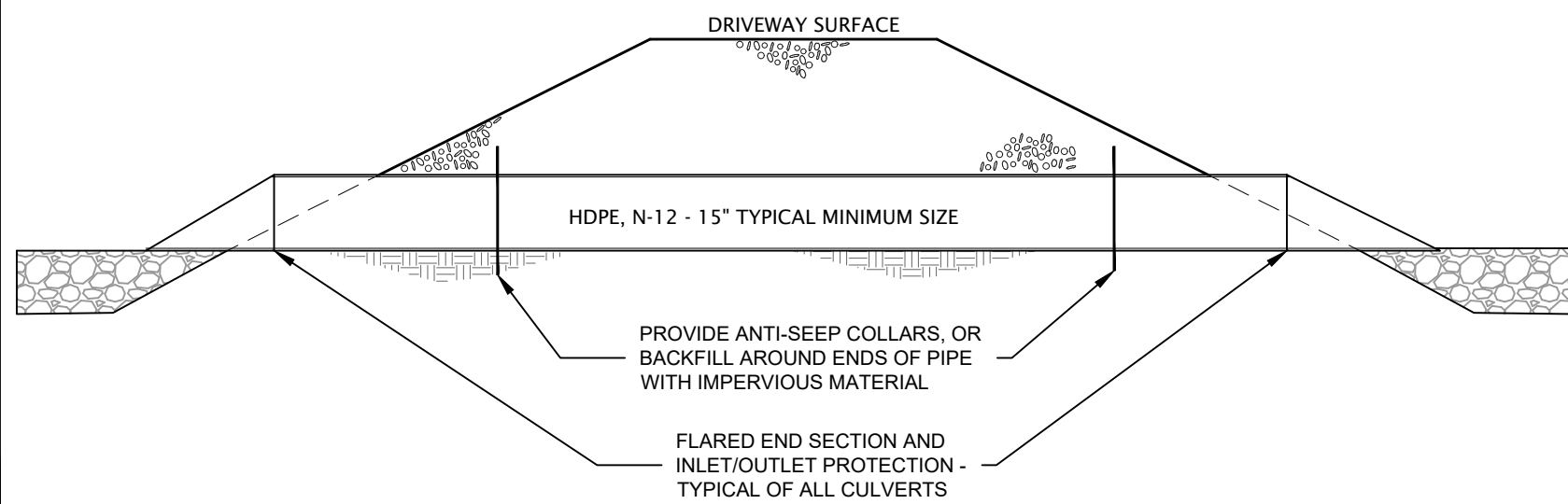
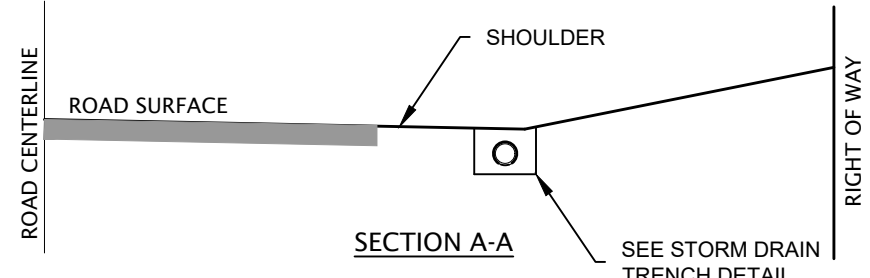
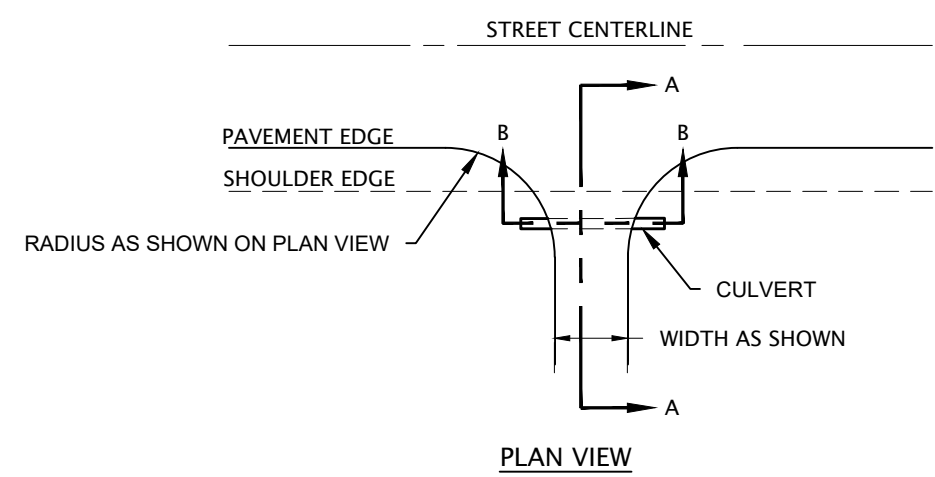
**(A) DRIVEWAY PAVEMENT DETAIL**  
N.T.S.



**(B) ROADWAY PAVEMENT DETAIL - FULL BOX CUT SECTION**  
N.T.S.

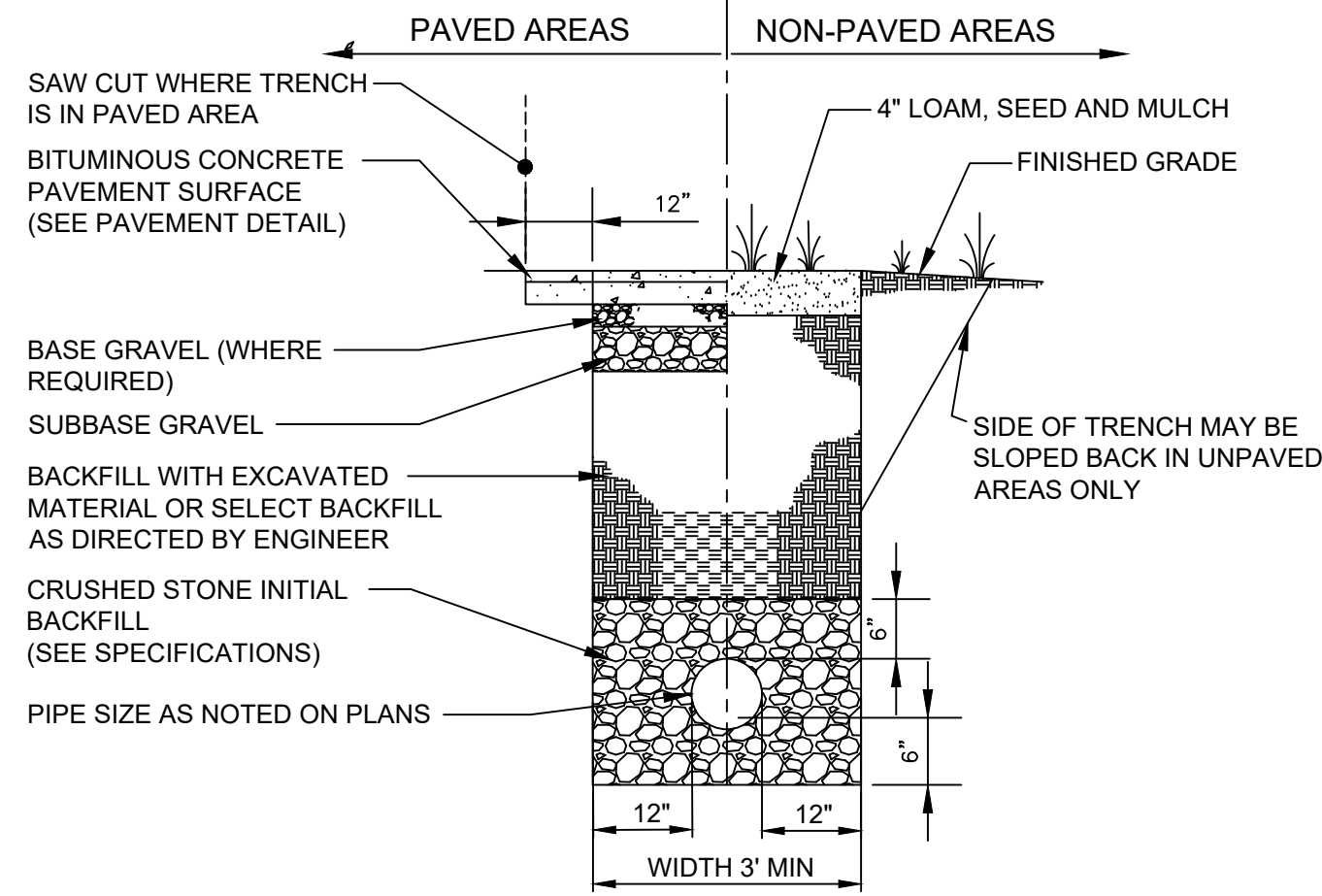


**(C) ROADWAY PAVEMENT DETAIL - RECLAIM SECTION**  
N.T.S.



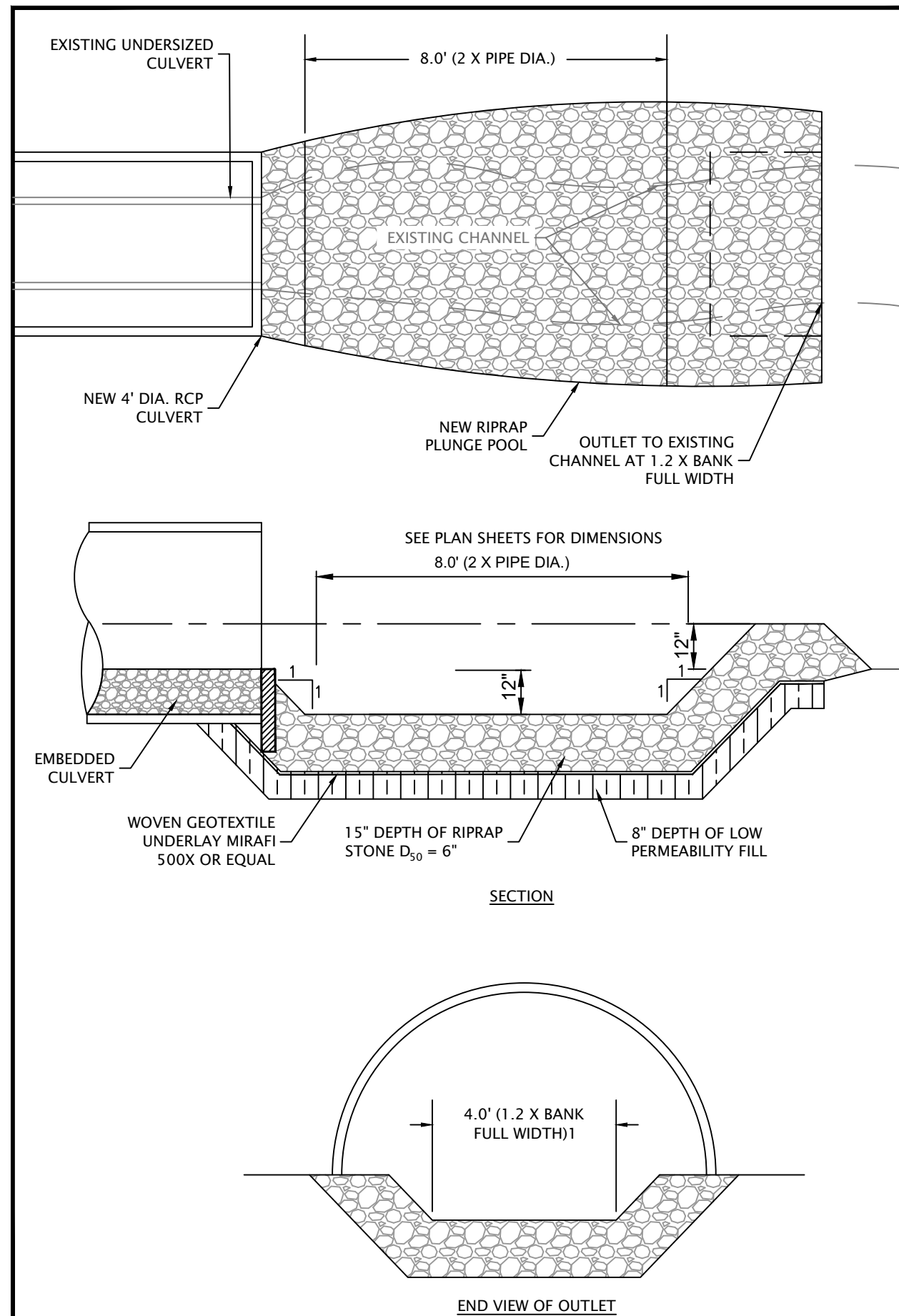
**(D) DRIVEWAY CULVERT DETAIL**  
N.T.S.

NOTE:  
PIPE SIZE TO BE DETERMINED AS  
PART OF PRELIMINARY DESIGN  
PROCESS

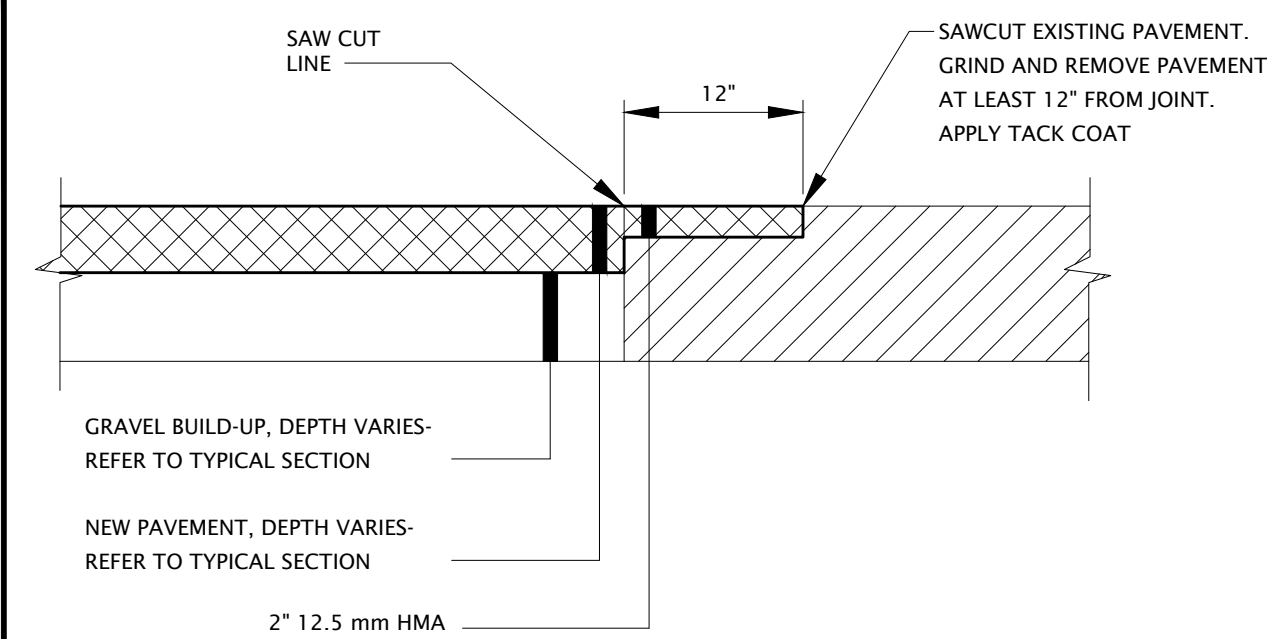


NOTE:  
BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET  
APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE  
THE RESPONSIBILITY OF THE CONTRACTOR.

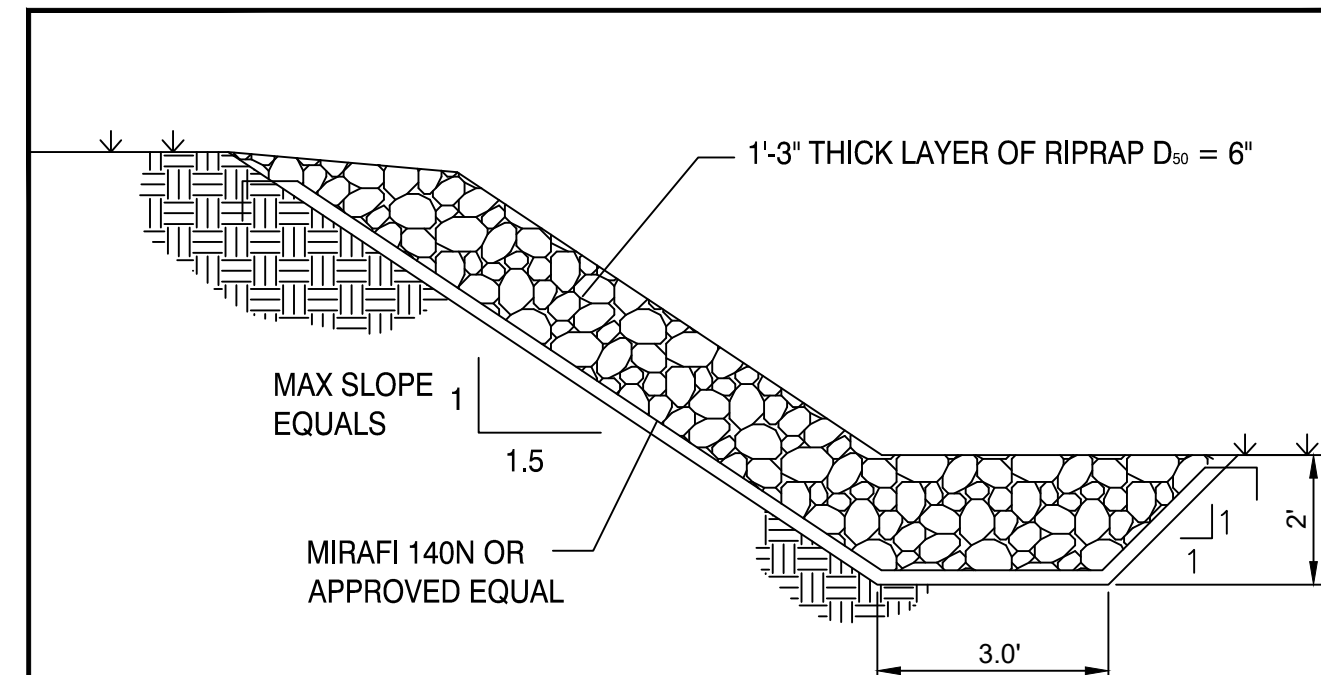
**(E) TYPICAL STORM DRAIN TRENCH DETAIL**  
N.T.S.



**(F) RIPRAP PLUNGE POOL DETAIL**  
N.T.S.

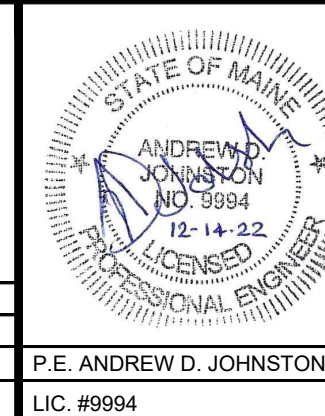


**(H) PAVEMENT BUTT-JOINT DETAIL**  
N.T.S.



**(I) RIPRAP EMBANKMENT DETAIL**  
N.T.S.

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**MITCHELL HILL ROAD  
SCARBOROUGH  
ROADWAY RECONSTRUCTION  
DETAILS II**

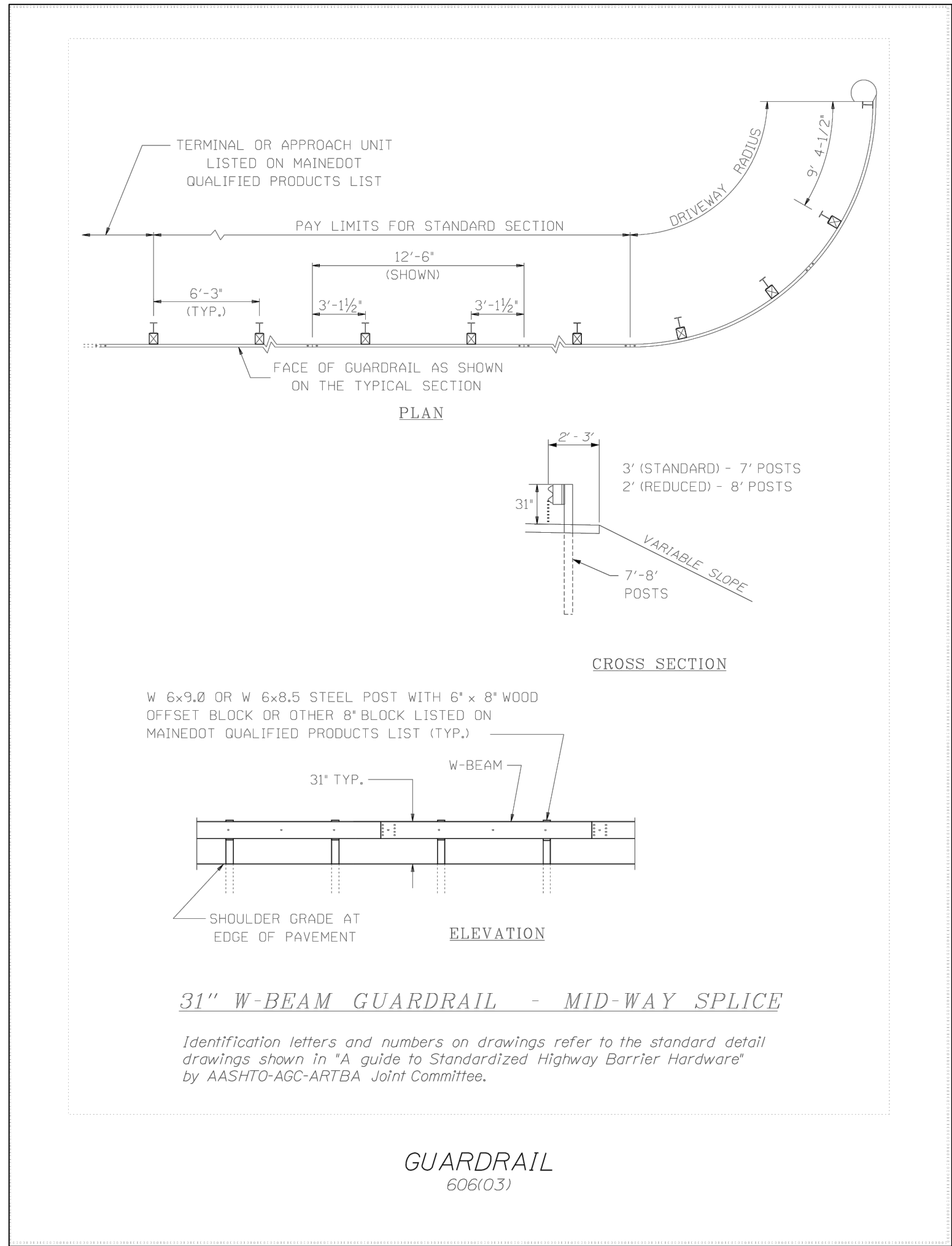
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074



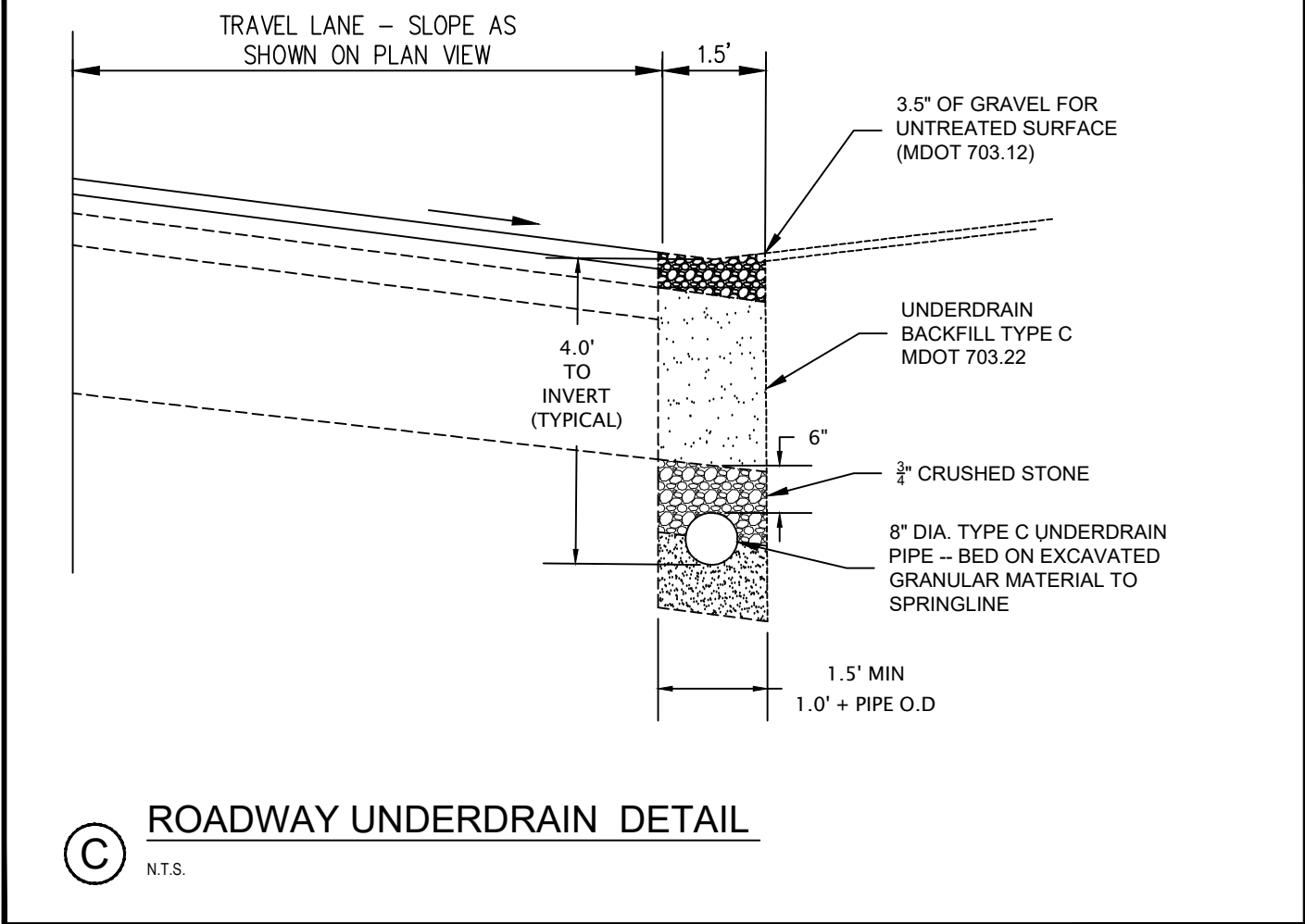
**Atlantic Resource Consultants**  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

DRAWN: MPV	DATE: DECEMBER 2021
DESIGNED: ADJ	SCALE: AS SHOWN
CHECKED: MPV/ADJ	JOB NO.
FILE NAME:	
SHEET: C-403	

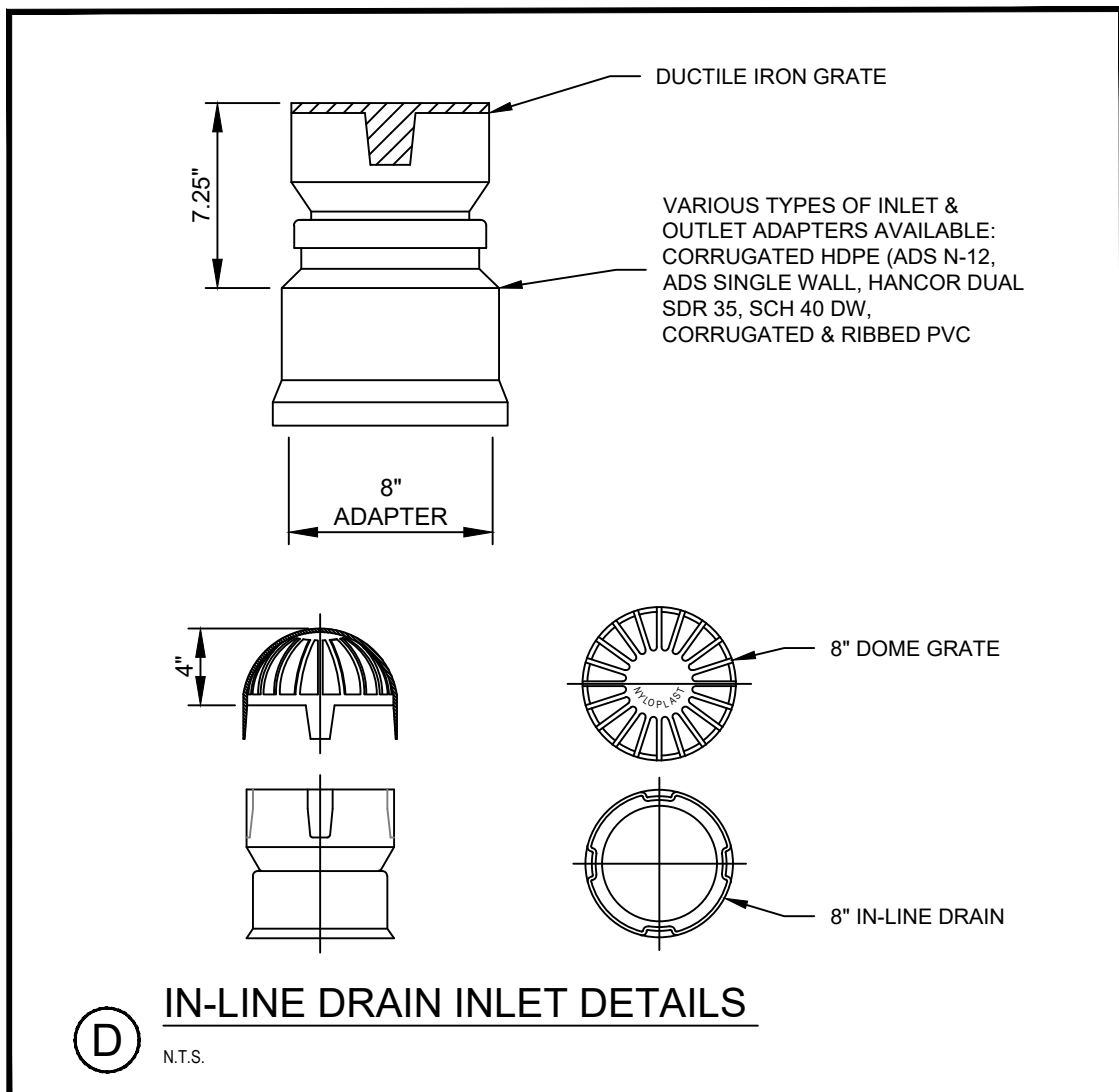




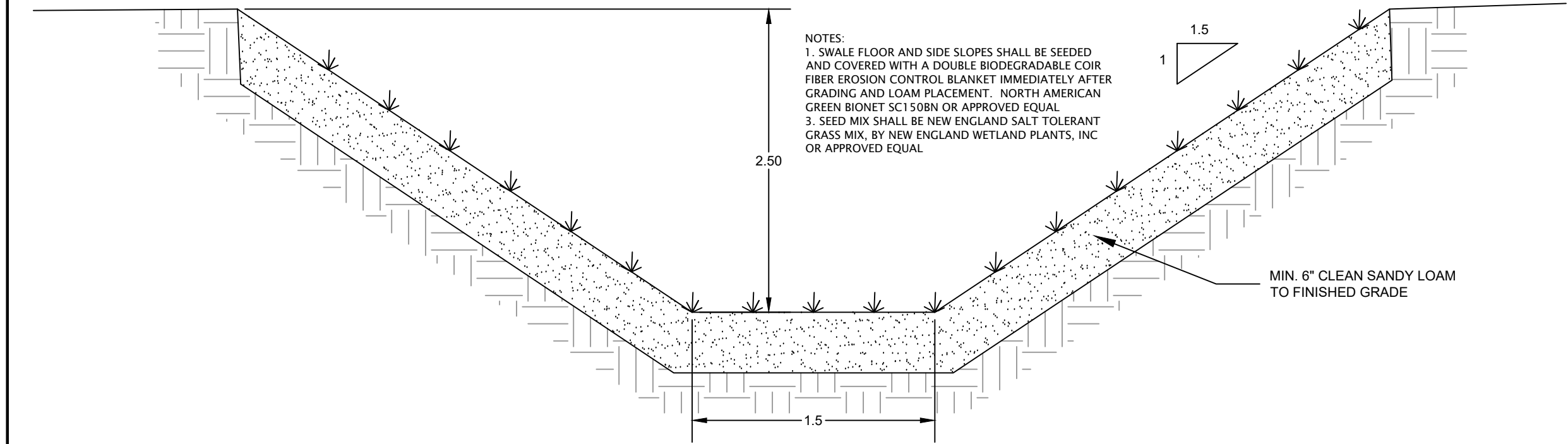
**(A) MAINE DOT METAL GUARDRAIL DETAIL**  
N.T.S.



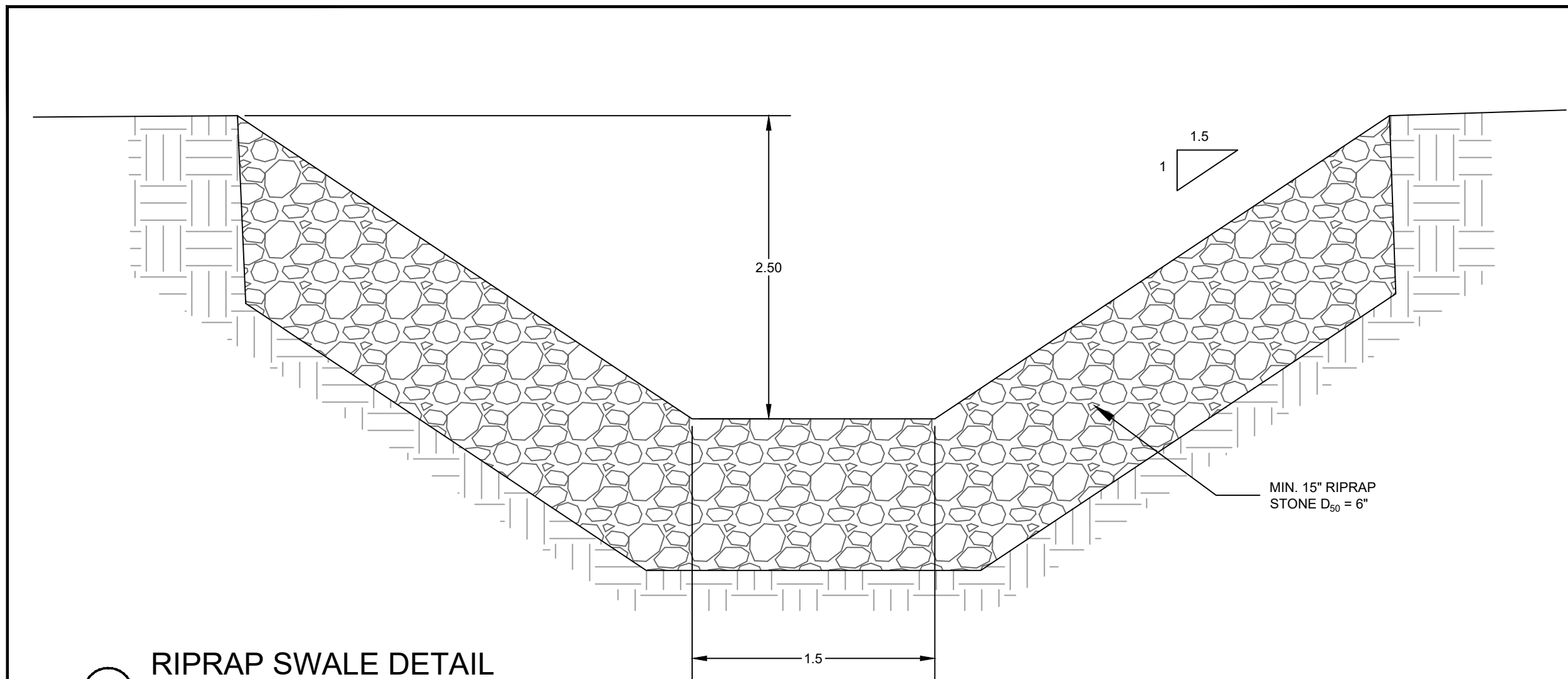
**(C) ROADWAY UNDERDRAIN DETAIL**  
N.T.S.



**(D) IN-LINE DRAIN INLET DETAILS**  
N.T.S.

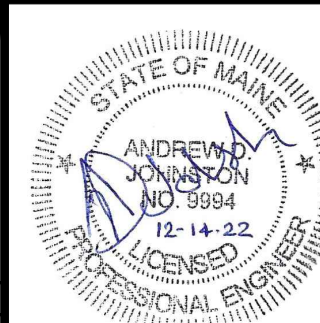


**(E) GRASS SWALE DETAIL**  
N.T.S.



**(F) RIPRAP SWALE DETAIL**  
N.T.S.

**ISSUED FOR BID**



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LIC. #9994

**MITCHELL HILL ROAD  
SCARBOROUGH  
ROADWAY RECONSTRUCTION  
DETAILS III**

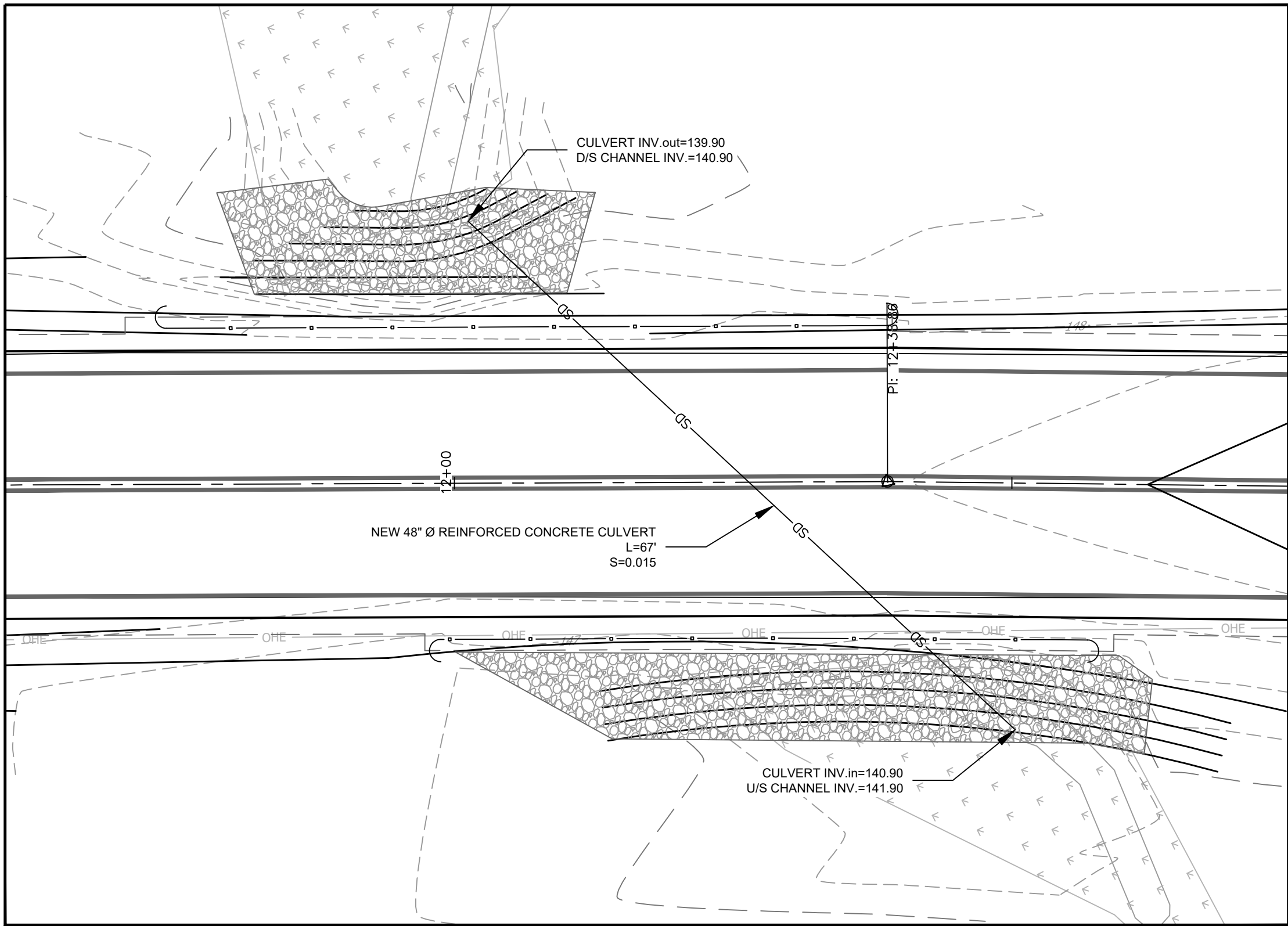
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074



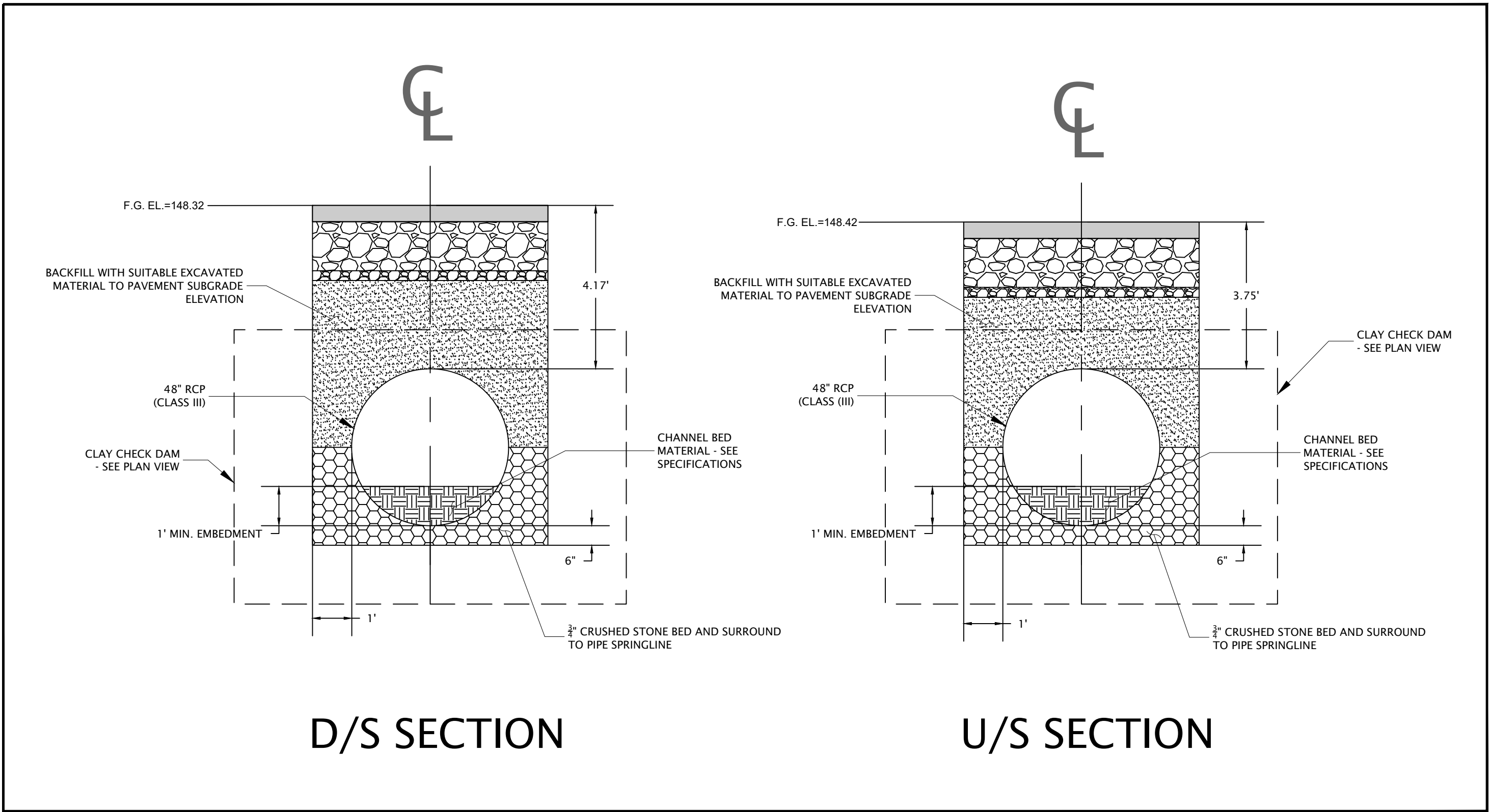
**Atlantic Resource Consultants**  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050

DRAWN: MPV  
DESIGNED: ADJ  
CHECKED: MPV/ADJ  
FILE NAME:  
SHEET: **C-404**

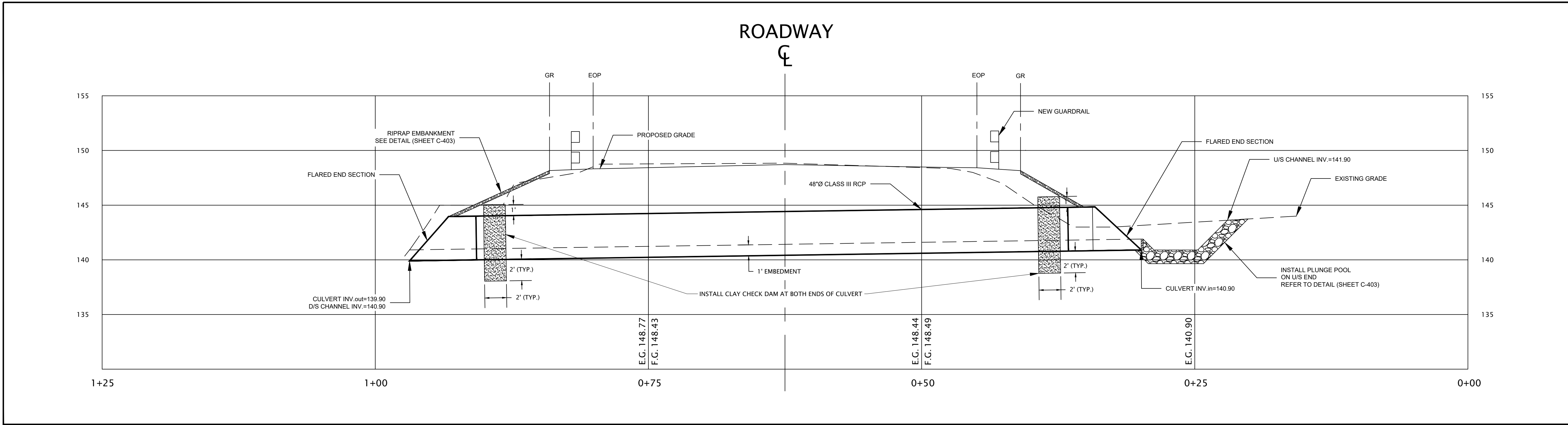




**A** STREAM CROSSING #1 PLAN DETAIL  
SCALE: 1" = 10'

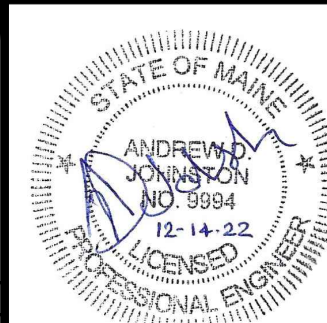


**C** EMBEDDED END CULVERT SECTION DETAIL - STREAM CROSSING #1  
N.T.S.



**B** EMBEDDED CULVERT SECTION DETAIL - STREAM CROSSING #1  
1" = 5'

ISSUED FOR BID

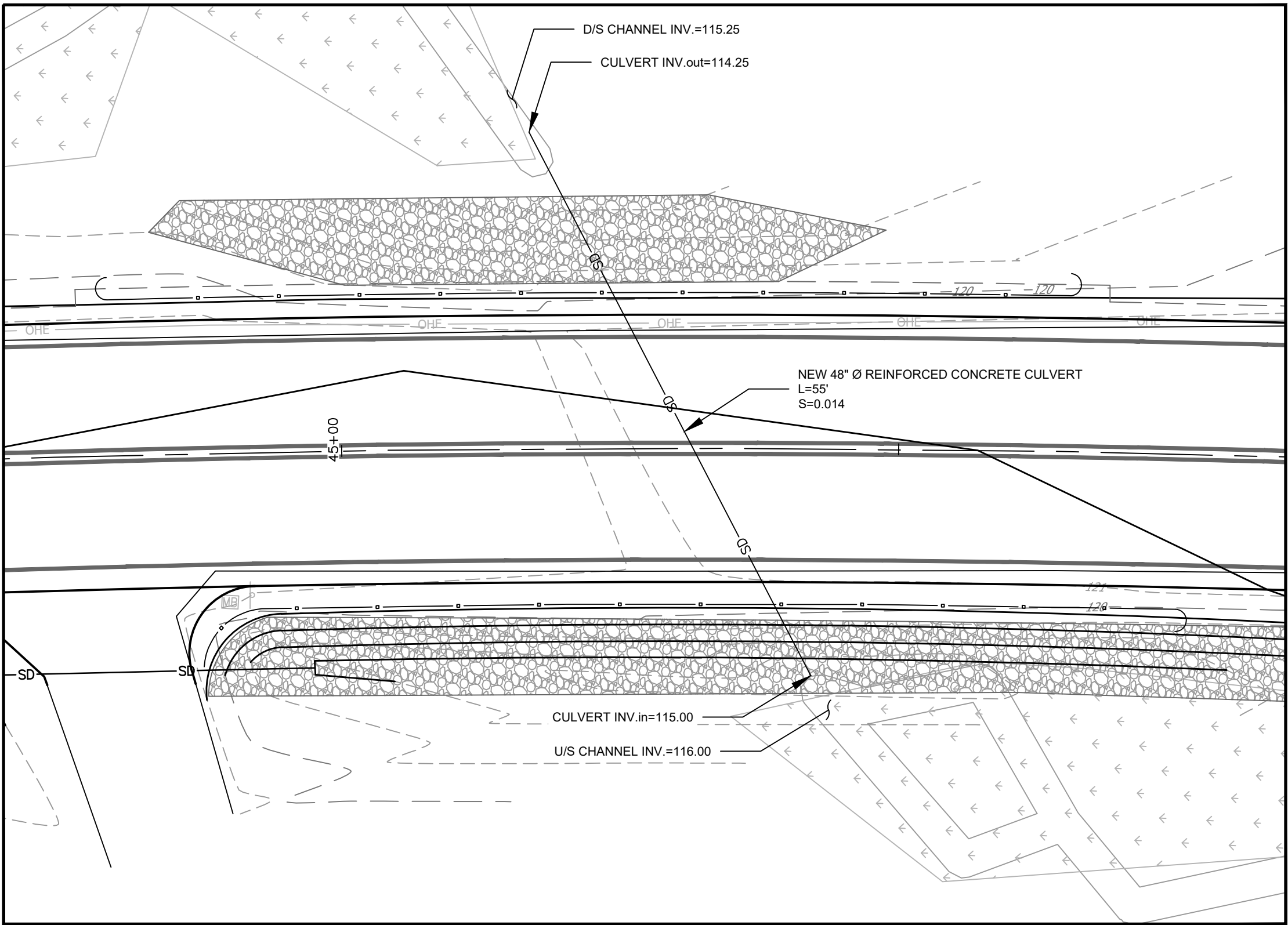


P.E. ANDREW D. JOHNSTON  
LIC. #9994

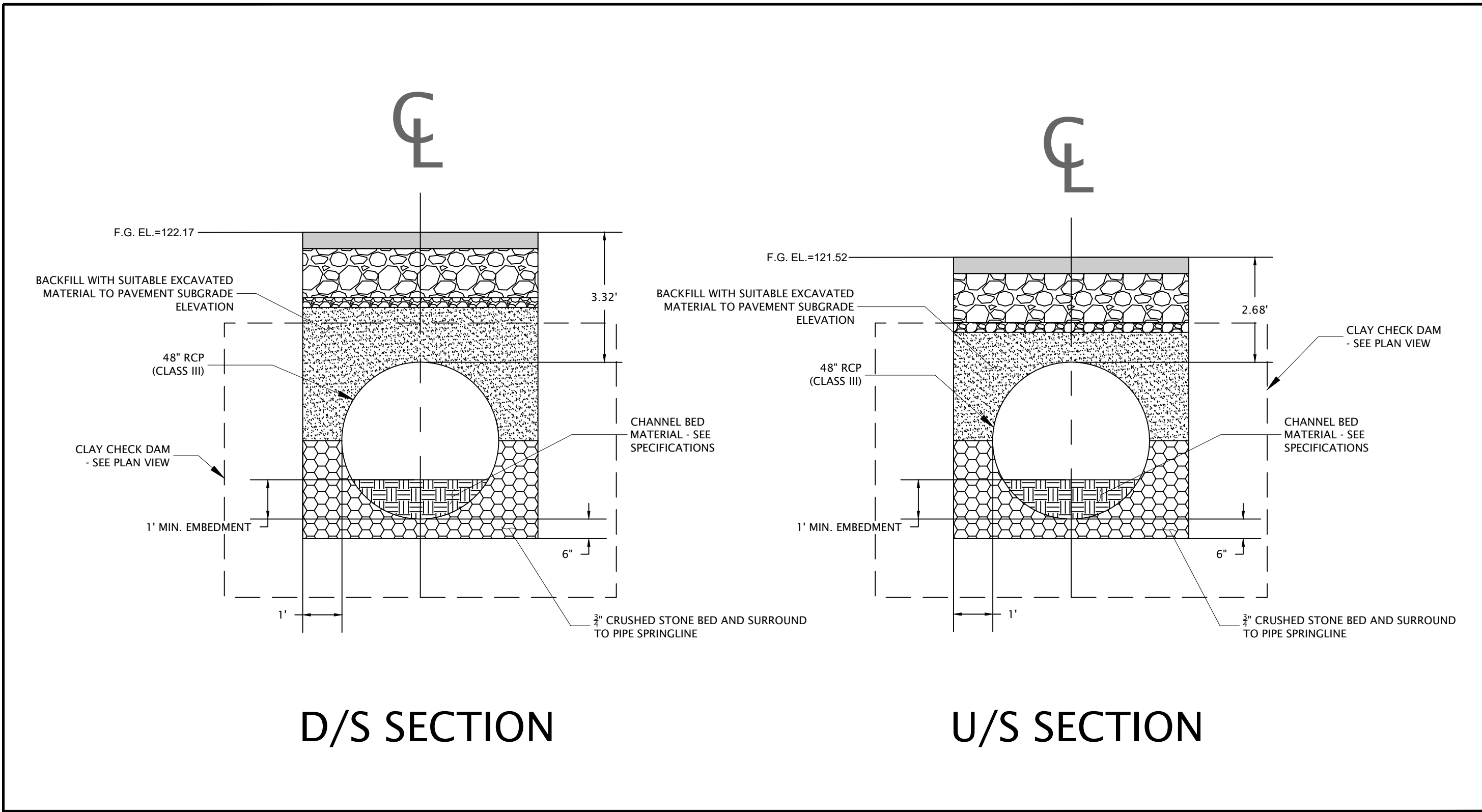
MITCHELL HILL ROAD  
SCARBOROUGH  
CROSS CULVERT  
DETAILS I  
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050  
DRAWN: MPV/ZWG  
DESIGNED: ADJ  
CHECKED: MPV/ADJ  
FILE NAME:  
SHEET: C-405  
DATE: DECEMBER 2021  
SCALE: AS SHOWN  
JOB NO.

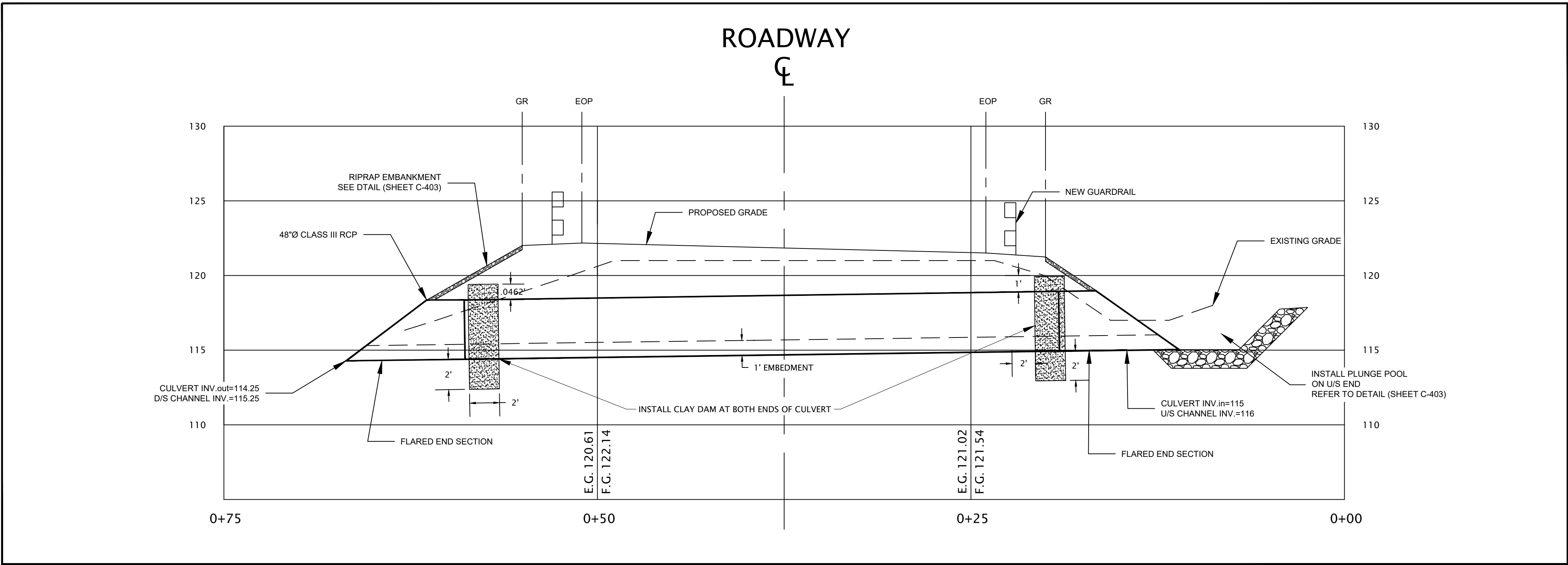




**A** STREAM CROSSING #2 PLAN DETAIL  
SCALE: 1" = 10'

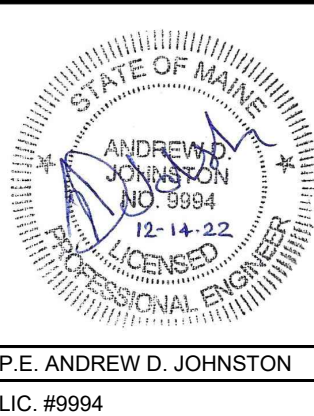


**C** EMBEDDED CULVERT END SECTION DETAIL - STREAM CROSSING #2  
N.T.S.



**B** EMBEDDED CULVERT SECTION DETAIL - STREAM CROSSING #2  
1"=5'

ISSUED FOR BID



MITCHELL HILL ROAD  
SCARBOROUGH  
CROSS SULVERT  
DETAILS II  
TOWN OF SCARBOROUGH  
259 US ROUTE ONE  
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants  
541 US Route One  
Freeport, ME 04032  
Tel: 207.869.9050  
DRAWN: MPV/ZWG  
DESIGNED: ADJ  
CHECKED: MPV/ADJ  
FILE NAME:  
SHEET: C-406  
DATE: DECEMBER 2021  
SCALE: AS SHOWN  
JOB NO.