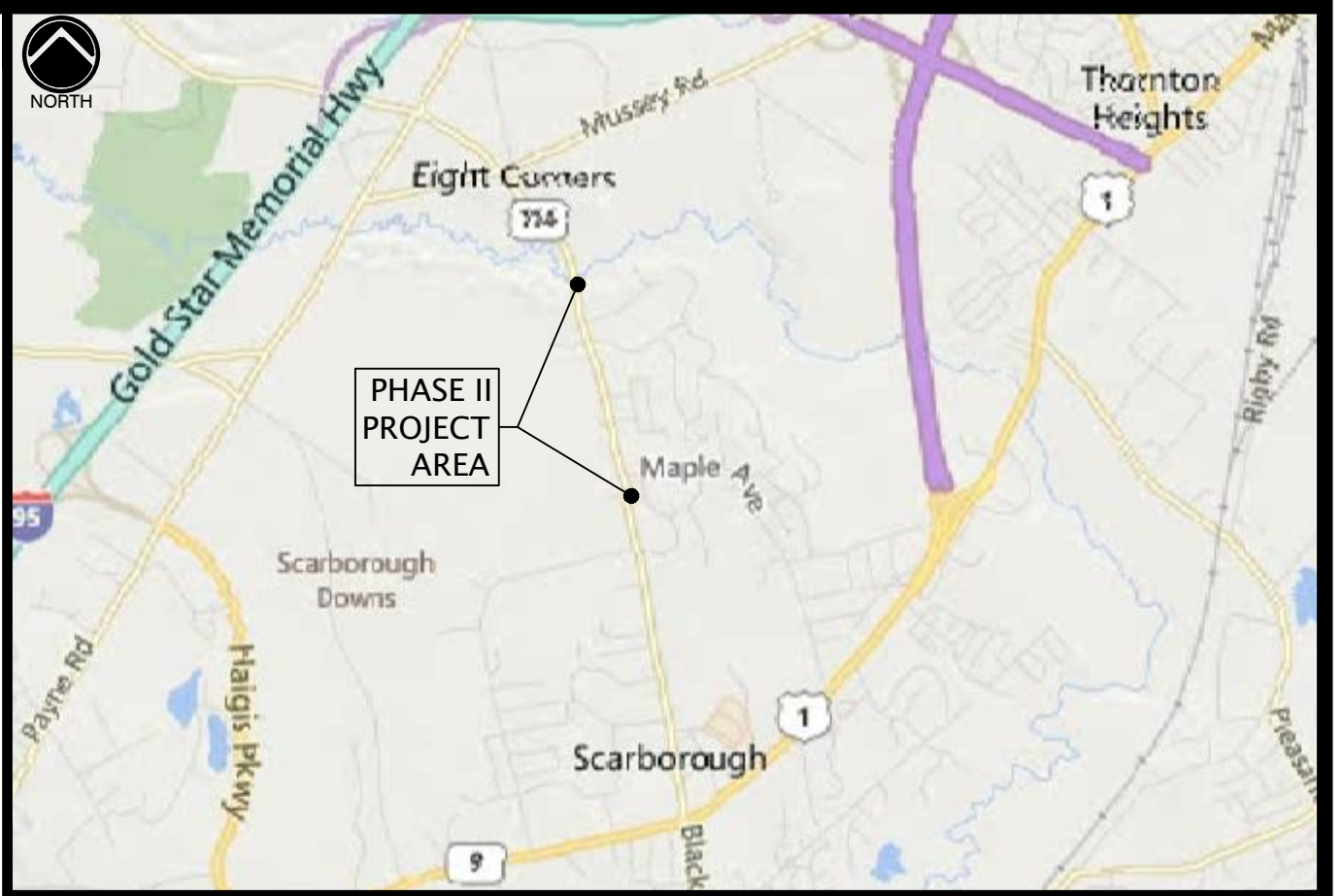
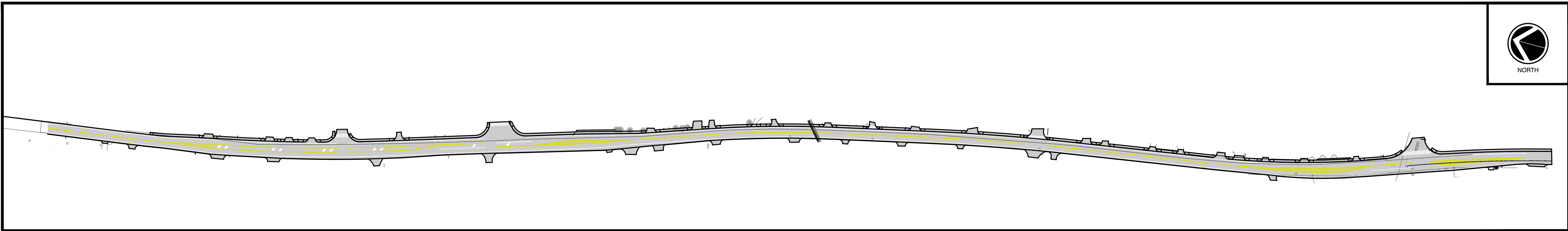


GORHAM ROAD ROUTE 114 RECONSTRUCTION PHASE II



LOCATION MAP
1" = 3000'



PLAN VIEW:
SCALE: 1" = 120'

CLIENT:

TOWN OF SCARBOROUGH PLANNING
AND PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04070

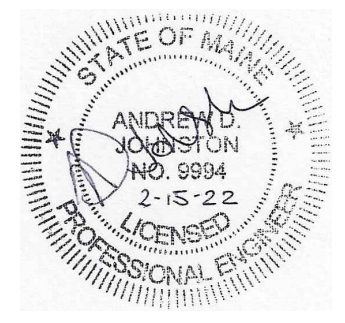
CIVIL ENGINEER:



541 US ROUTE ONE, SUITE 21
FREEPORT, MAINE 04032

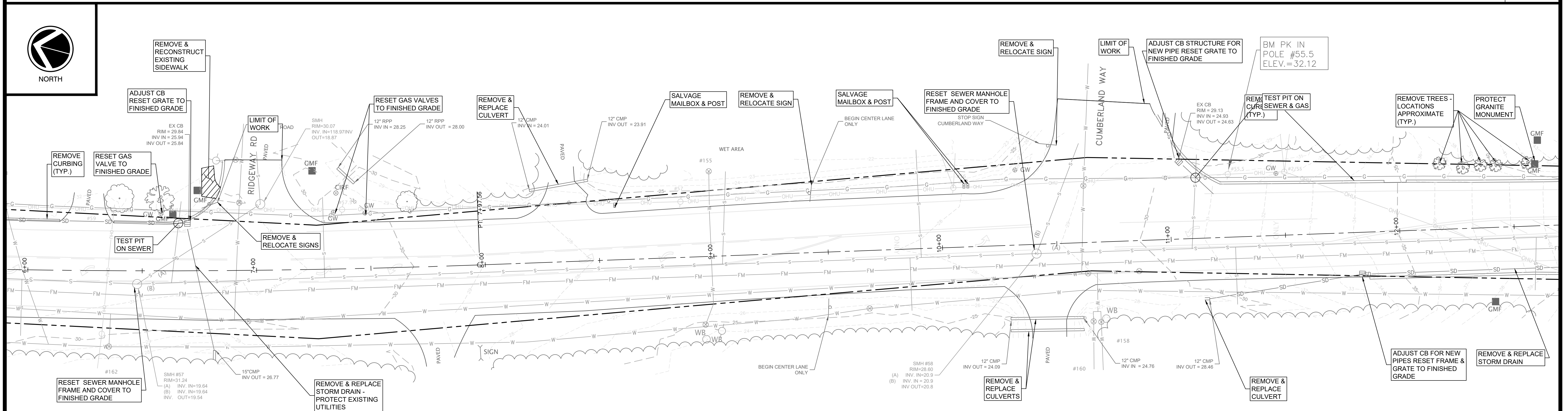
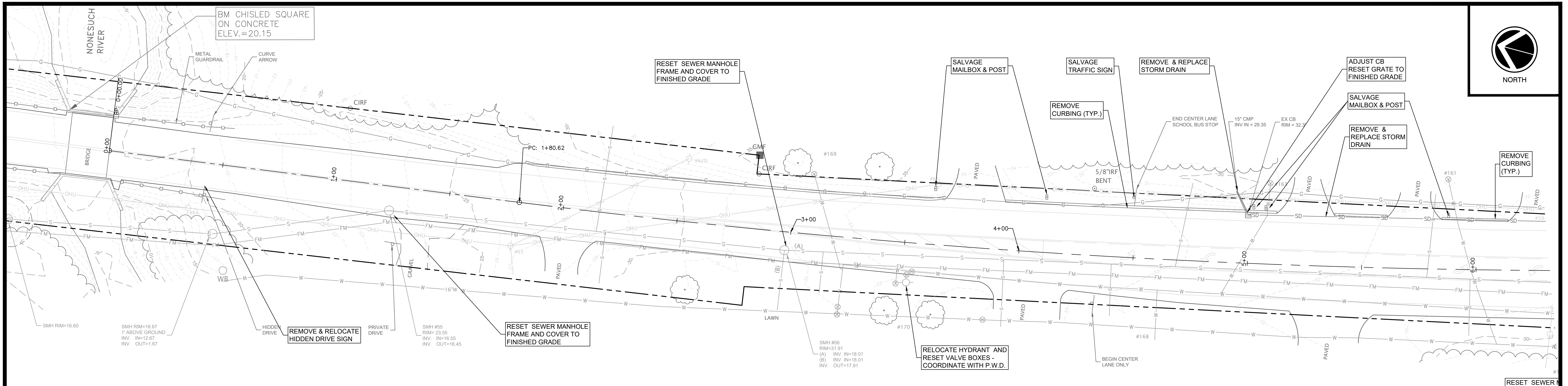
SHEET INDEX:

C-1.0	COVER SHEET	C-4.1	ROADWAY PLAN & PROFILE STA: 1+00 ~ 6+50
C-1.1	EXISTING CONDITIONS AND REMOVALS PLAN I	C-4.2	ROADWAY PLAN & PROFILE STA: 6+50 ~ 13+00
C-1.2	EXISTING CONDITIONS AND REMOVALS PLAN II	C-4.3	ROADWAY PLAN & PROFILE STA: 13+00 ~ 19+50
C-1.3	EXISTING CONDITIONS AND REMOVALS PLAN III	C-4.4	ROADWAY PLAN & PROFILE STA: 19+50 ~ 24+00
C-2.1	ROADWAY LAYOUT PLAN STA: 1+00 ~ 12+00	C-4.5	ROADWAY PLAN & PROFILE STA: 24+00 ~ 29+00
C-2.2	ROADWAY LAYOUT PLAN STA: 12+00 ~ 24+00	C-4.6	ROADWAY PLAN & PROFILE STA: 29+00 ~ 35+69.27
C-2.3	ROADWAY LAYOUT PLAN STA: 24+00 ~ 35+09	C-5.1	EROSION & SEDIMENTATION CONTROL NOTES
C-3.1	ROADWAY PAVING PLAN STA: 1+00 ~ 12+00	C-5.2	EROSION & SEDIMENTATION CONTROL DETAILS
C-3.2	ROADWAY PAVING PLAN STA: 12+00 ~ 24+00	C-5.3	SITE CIVIL DETAILS I
C-3.3	ROADWAY PAVING PLAN STA: 24+00 ~ 35+09	C-5.4	SITE CIVIL DETAILS II
		C-5.5	SITE CIVIL DETAILS III



REVISED: FEBRUARY 15, 2022

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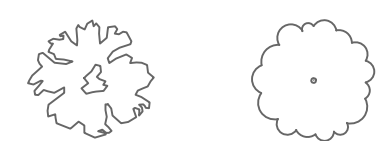


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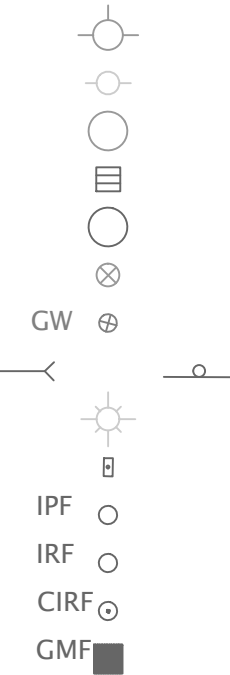
Diagram illustrating the components of a road cross-section, ordered from top to bottom:

- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CURBING
- RIGHT OF WAY
- OVERHEAD UTILITY (OHU)
- WATER MAIN (W)
- SEWER FORCE MAIN (FM)
- SEWER PIPE (S)
- SEWER SERVICE
- GAS MAIN (G)
- CULVERT
- STORM DRAIN (SD)
- PAINTED CENTERLINE
- PAINTED ROAD LINE
- TREE LINE

TREES



HYDRANT
UTILITY POLE
SEWER MANHOLE
CATCH BASIN
DRAIN MANHOLE
WATER VALVE
GAS VALVE
SIGNS
STREET LIGHT
MAILBOX
IRON PIPE FOUND
IRON ROD FOUND
CAPPED IRON ROD FOUND
GRANITE MONUMENT FOUND



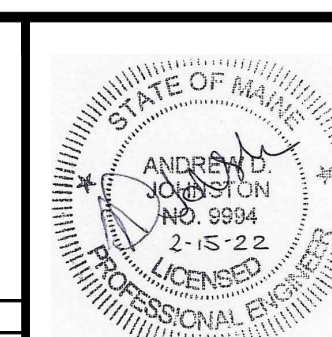
GENERAL NOTE:

PROPOSED DESIGN BASELINE AND STATIONING IS SHOWN ON THIS PLAN FOR THE PURPOSE OF DIMENSIONAL ASSISTANCE IN THE LOCATION OF ANY DEMOLITION, REMOVAL, RESETTling OR REPLACEMENT OF EXISTING FEATURES.

PLAN REFERENCE:

UTILITIES SHOWN ON THIS PLAN TAKEN FROM DRAWING BY: OWEN HASKELL INC., P.E., PROFESSIONAL ENGINEER AND SURVEYOR. TITLE: TOWN OF SCARBOROUGH EXISTING CONDITIONS SURVEY DATED NOVEMBER 23, 2015. SCALE: 1" = 40'. JOB NO.: 2005-241 SC. THE ENGINEER MAKES NO GUARANTEE THAT THE INFORMATION SHOWN HEREON IS ACCURATE OR COMPLETE. IT IS THE RESPONSIBILITY OF ANY PARTY WORKING ON THE SITE TO VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO ANY EXCAVATION ACTIVITY AND TO NOTIFY DIGSAFE PRIOR TO ANY EXCAVATION.

REV	DATE	DESCRIPTION	REVISIONS



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

GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION EXISTING CONDITIONS AND REMOVALS PLAN I

TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074



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

DRAWN: MPV	DATE: FEBRUARY 8, 2022
DESIGNED: ADJ	SCALE: 1" = 20'
CHECKED: ADJ	JOB NO. 18-037
FILE NAME:	
SHEET: C-1.1	

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TREES

GENERAL NOTE:

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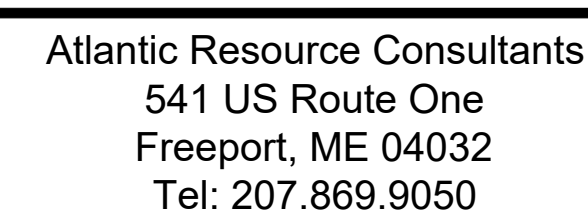
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JOB NO: 2005-241 SUR. THE ENGINEER MAKES NO GUARANTEE THAT THE INFORMATION SHOWN HEREON IS ACCURATE OR COMPLETE. IT IS THE RESPONSIBILITY OF ANY PARTY WORKING ON THE SITE TO VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO ANY EXCAVATION ACTIVITY AND TO NOTIFY DIGSAFE PRIOR TO ANY EXCAVATION.

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

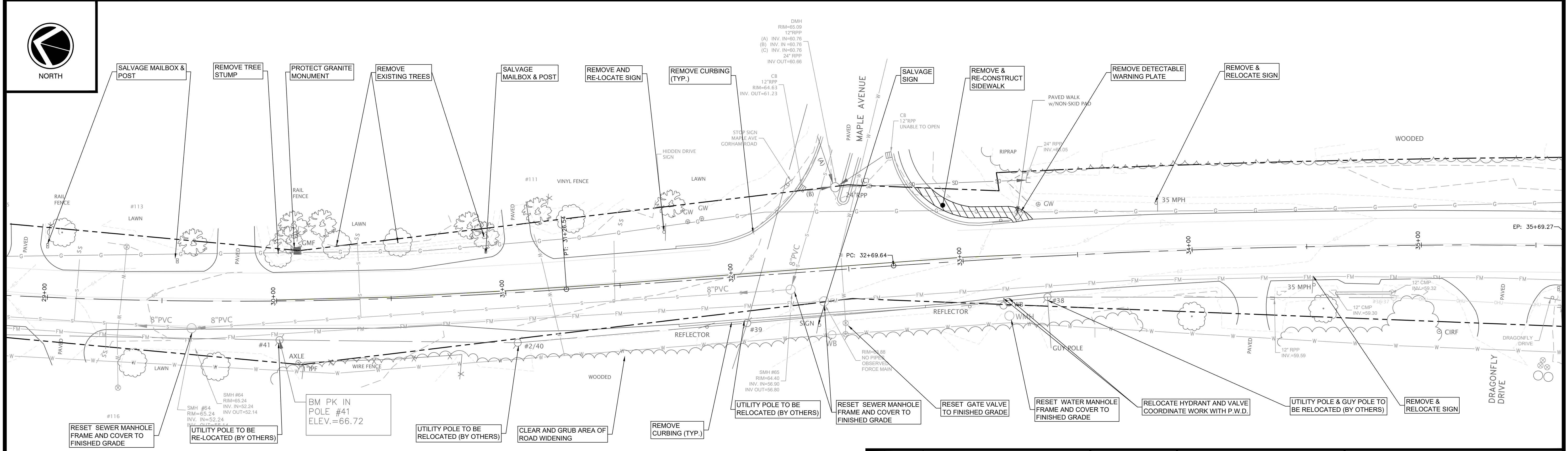
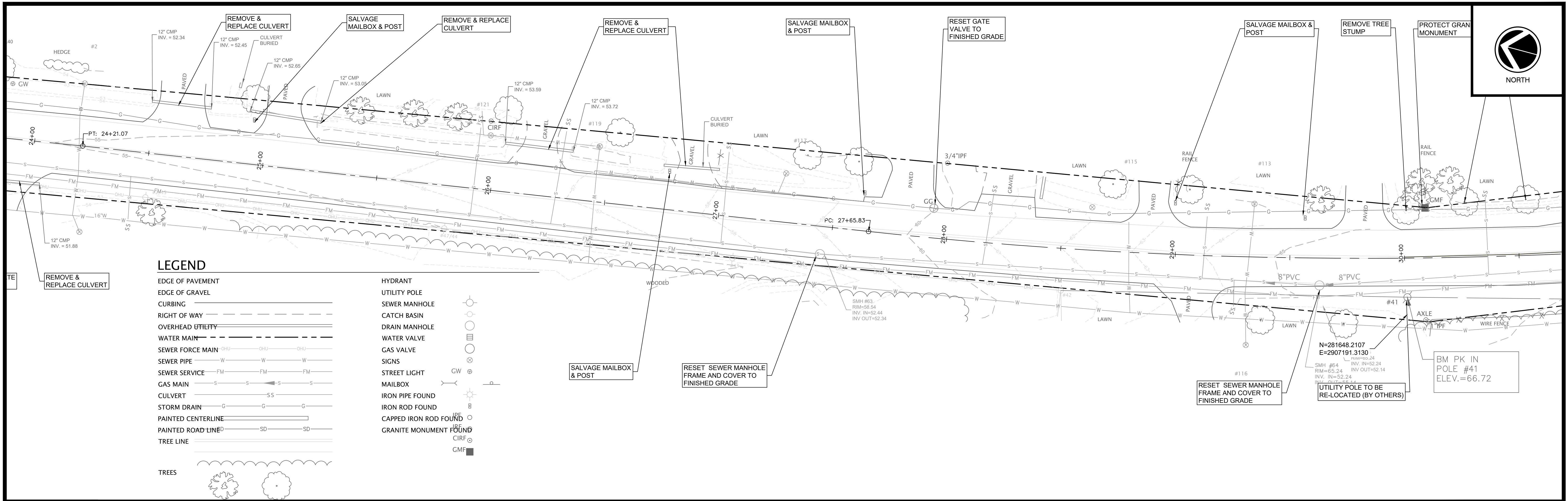
GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION
EXISTING CONDITIONS AND REMOVALS PLAN II

TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074



DRAWN: MPV	DATE: FEBRUARY 8, 2022
DESIGNED: ADJ	SCALE: 1" = 20'
CHECKED: ADJ	JOB NO. 18-037
FILE NAME:	
SHEET: C-1 2	

ISSUED FOR
BIDDING



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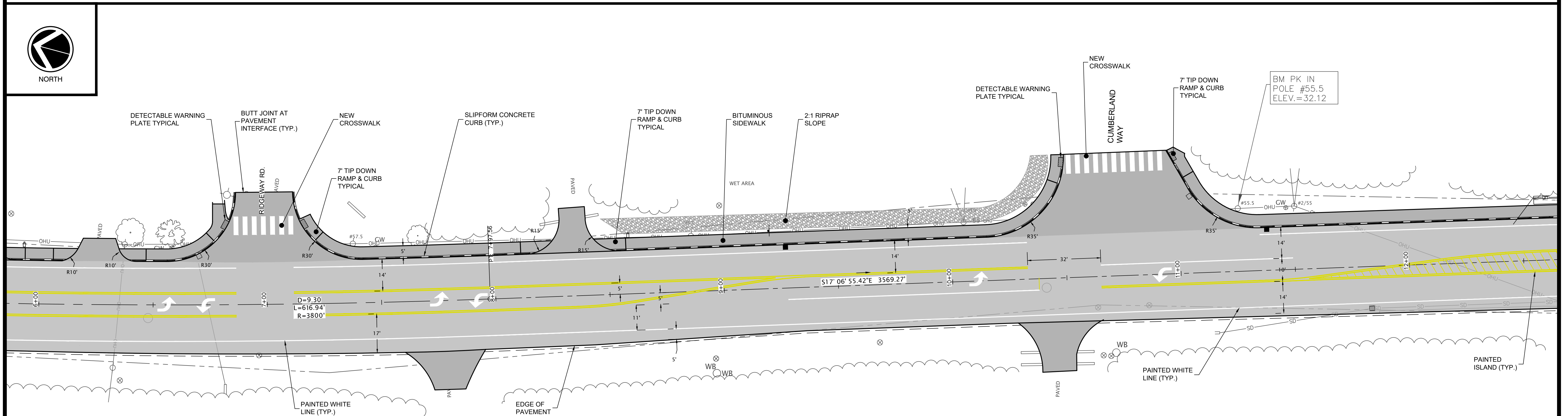
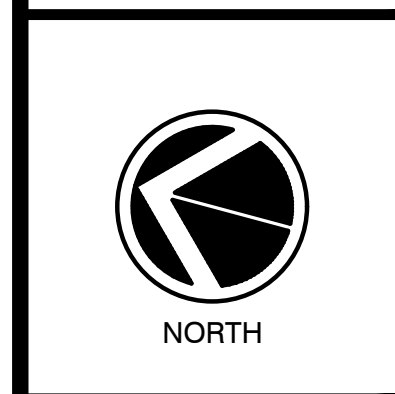
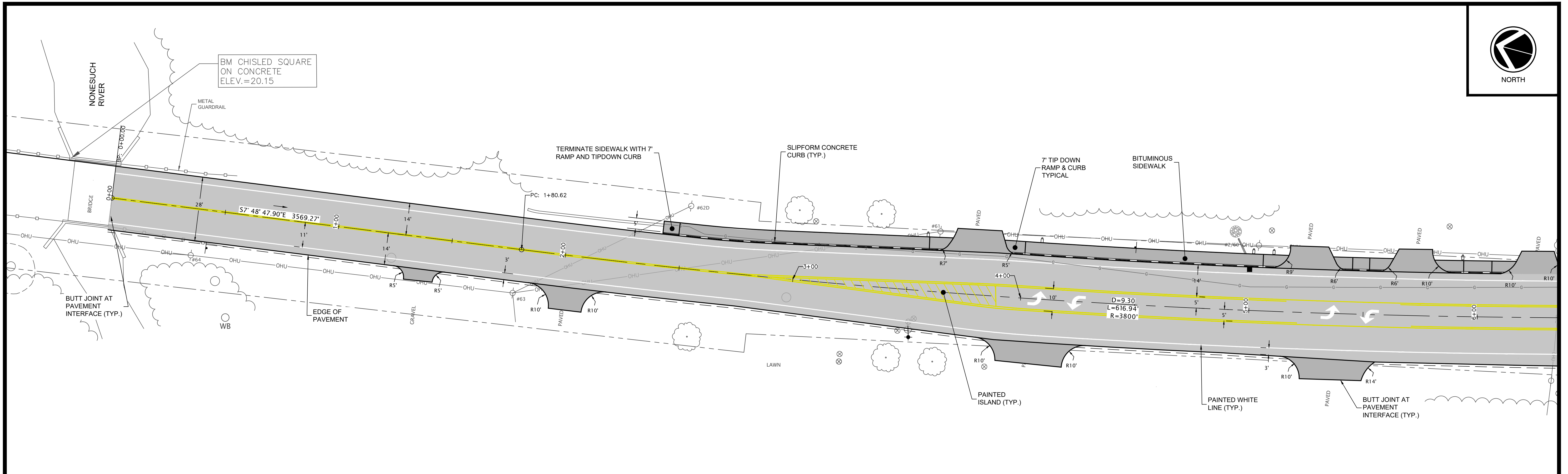
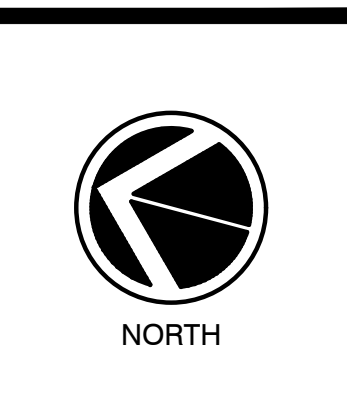
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**ISSUED FOR
BIDDING**

			GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION EXISTING CONDITIONS AND REMOVALS PLAN III			
			TOWN OF SCARBOROUGH PLANNING & PUBLIC WORKS DEPARTMENT SCARBOROUGH, MAINE 04074		Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050	
REV. DATE DESCRIPTION REVISIONS			P.E. ANDREW D. JOHNSTON LIC. #9994		DRAWN: MPV DESIGNED: ADJ CHECKED: ADJ FILE NAME: SHEET: C-1.3	
			DATE: FEBRUARY 8, 2022		SCALE: 1" = 20' JOB NO: 18-037	

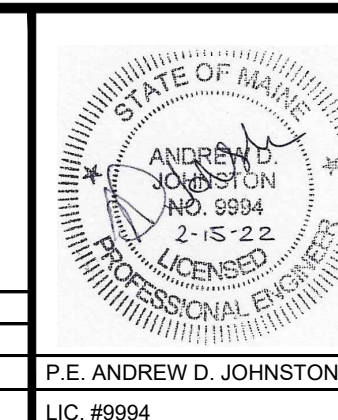


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BIDDING

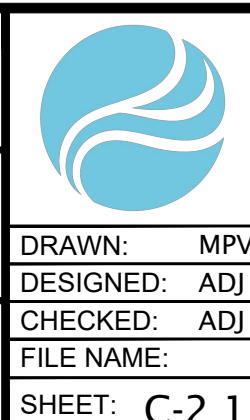
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REV	DATE	DESCRIPTION
REVISIONS		

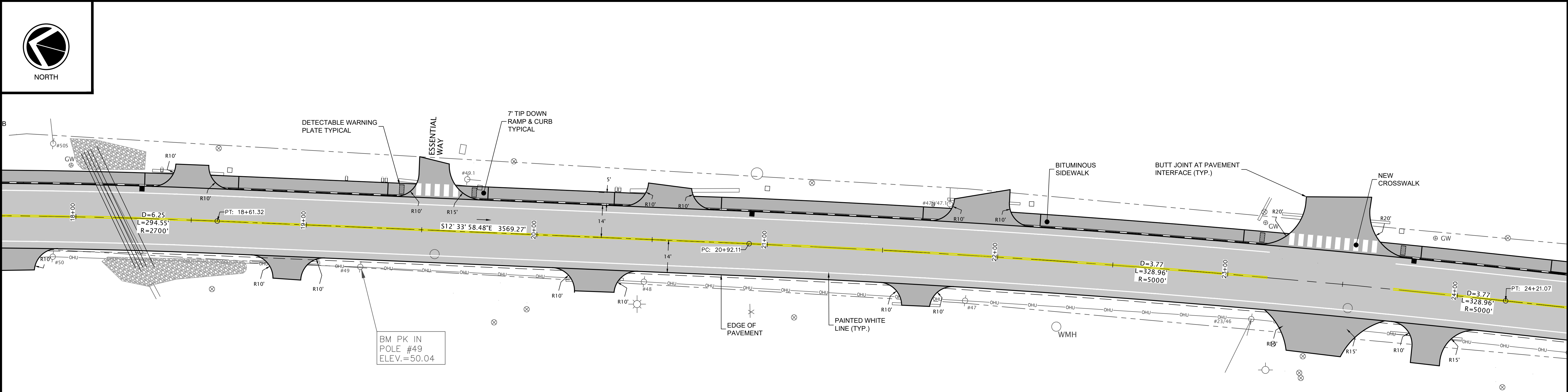
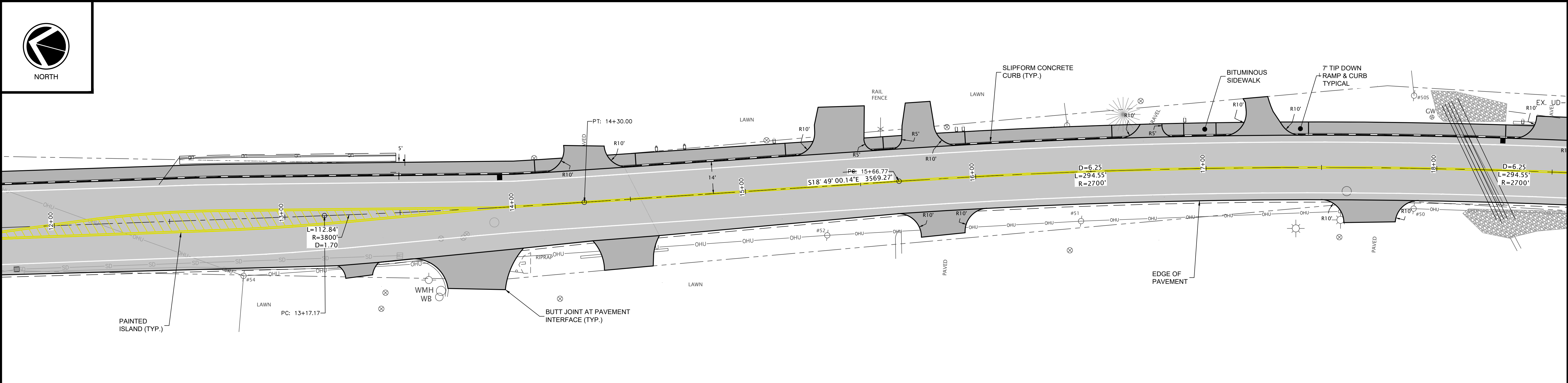


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	TOWN OF SCARBOROUGH PLANNING & PUBLIC WORKS DEPARTMENT SCARBOROUGH, MAINE 04074
	04074



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

	DATE: FEBRUARY 8, 2022
	SCALE: 1" = 20'
	JOB NO. 18-037



LEGEND

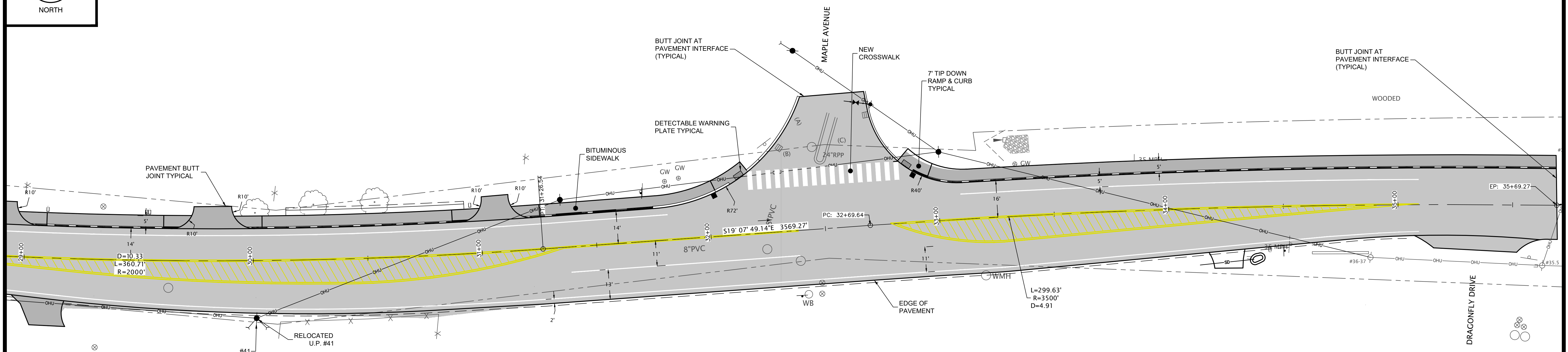
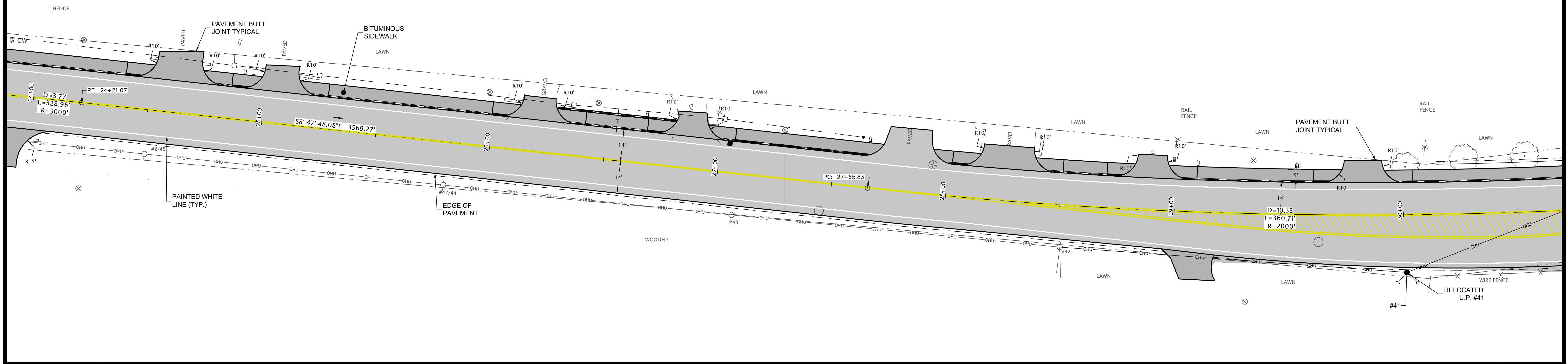
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EDGE OF GRAVEL	---	UTILITY POLE	○
CURBING	==	SEWER MANHOLE	⊙
RIGHT OF WAY	---	CATCH BASIN	⊞
OVERHEAD UTILITY	OHU	DRAIN MANHOLE	⊞
WATER MAIN	---	WATER VALVE	⊙
SEWER FORCE MAIN	---	GAS VALVE	⊙
SEWER PIPE	---	SIGNS	⊙
SEWER SERVICE	---	STREET LIGHT	⊙
GAS MAIN	---	MAILBOX	⊙
CULVERT	---	NEW E.O.P.	---
NEW SINGLE WHITE LINE	---	NEW CURBING	---
NEW DOUBLE YELLOW LINE	---	NEW GRADE LINE	---
NEW STORM DRAIN	---	NEW OVERHEAD UTILITY	OHU
TREE LINE	---	NEW CROSSWALK	---
		NEW RETAINING WALL	---
		RI-P-RAP AREA	---
		NEW CATCH BASIN	---
		NEW UTILITY POLE	---
		DETECTABLE WARNING PLATE	---

PLAN REFERENCE:

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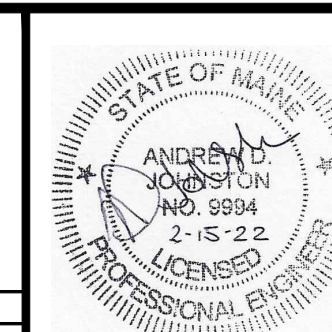
				GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION ROADWAY LAYOUT PLAN STA: 12+00 ~ 24+00		 <div>Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050</div>	
				TOWN OF SCARBOROUGH PLANNING & PUBLIC WORKS DEPARTMENT SCARBOROUGH, MAINE 04074			DRAWN: MPV DATE: FEBRUARY 8, 2022
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							FILE NAME: SHEET: C-2.2
REV	DATE	DESCRIPTION	P.E. ANDREW D. JOHNSTON LIC. #9994				
REVISIONS							



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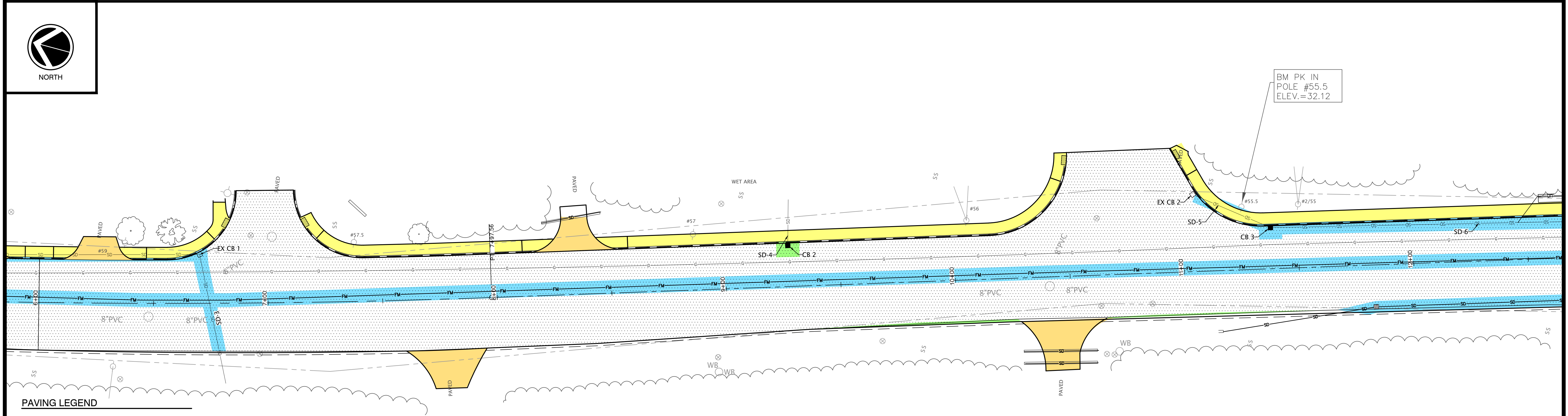
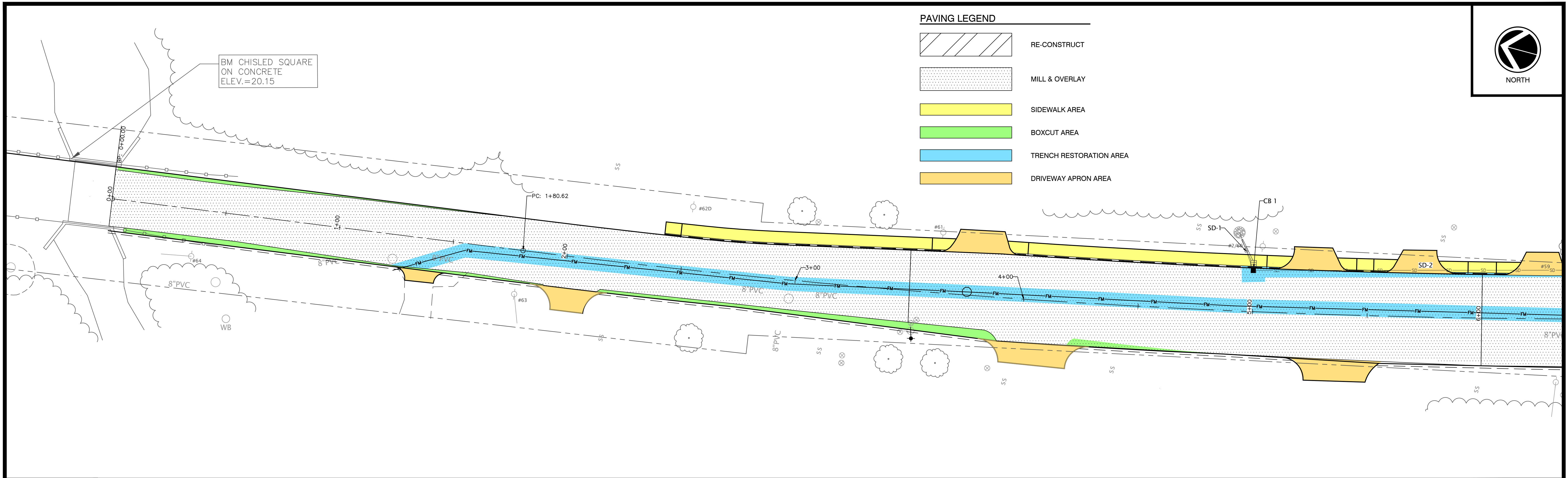
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GORHAM ROAD / RTE. 114
PHASE II RECONSTRUCTION
ROADWAY LAYOUT PLAN
STA: 24+00 ~ 35+09
TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050
DRAWN: MPV
DESIGNED: ADJ
CHECKED: ADJ
FILE NAME:
SHEET: C-2.3
DATE: FEBRUARY 8, 2022
SCALE: 1" = 20'
JOB NO: 18-037

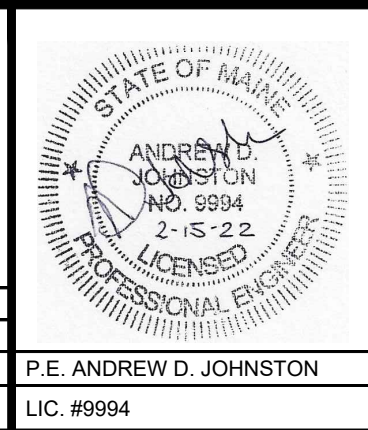


PAVING LEGEND	
	RE-CONSTRUCT
	MILL & OVERLAY
	SIDEWALK AREA
	BOXCUT AREA
	TRENCH RESTORATION AREA
	DRIVEWAY APRON AREA

PLAN REFERENCE:

UTILITIES SHOWN ON THIS PLAN TAKEN FROM DRAWING BY: OWEN HASKELL INC. L.L.C. PROFESSIONAL LAND SURVEYORS. TITLE: TOWN OF SCARBOROUGH EXISTING CONDITIONS SURVEY DATED NOVEMBER 23, 2015. SCALE: 1" = 40'. JOB NO: 2005-241 SC. THE ENGINEER MAKES NO GUARANTEE THAT THE INFORMATION SHOWN HEREON IS ACCURATE OR COMPLETE. IT IS THE RESPONSIBILITY OF ANY PARTY WORKING ON THE SITE TO VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO ANY EXCAVATION ACTIVITY AND TO NOTIFY DIGSAFE PRIOR TO ANY EXCAVATION.

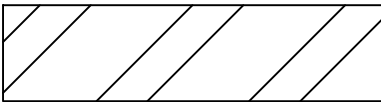
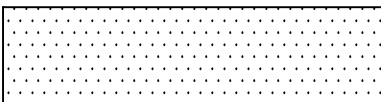
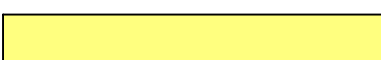



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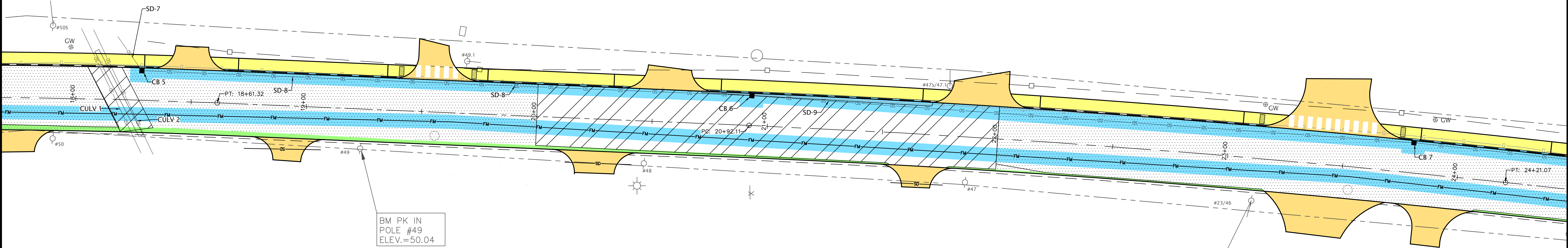
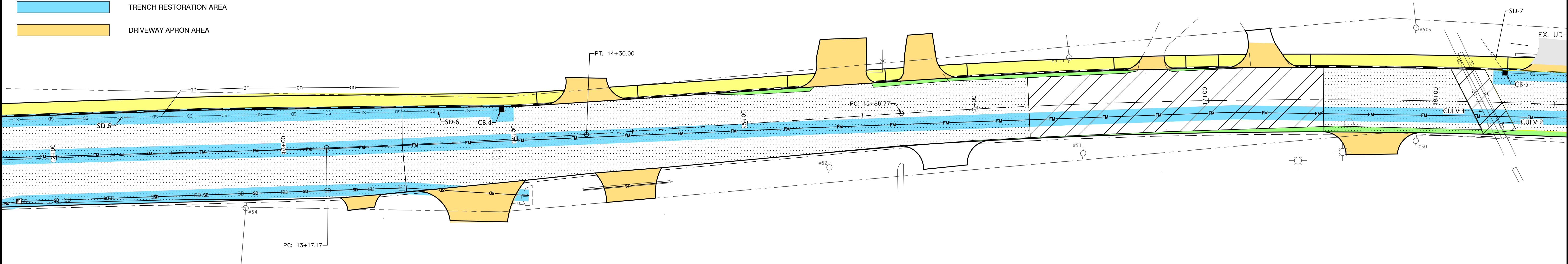


GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION ROADWAY PAVING PLAN STA: 0+00 ~ 12+00 TOWN OF SCARBOROUGH PLANNING & PUBLIC WORKS DEPARTMENT SCARBOROUGH, MAINE 04074
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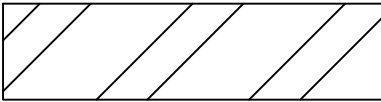
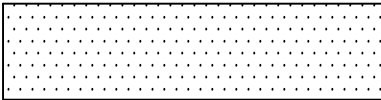
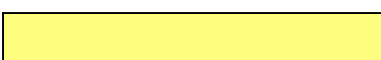



Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050	DRAWN: MPV DESIGNED: ADJ CHECKED: ADJ FILE NAME: SHEET: C-3.1	DATE: FEBRUARY 8, 2022 SCALE: 1" = 20' JOB NO: 18-037
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PAVING LEGEND

-  RE-CONSTRUCT
-  MILL & OVERLAY
-  SIDEWALK AREA
-  BOXCUT AREA
-  TRENCH RESTORATION AREA
-  DRIVEWAY APRON AREA

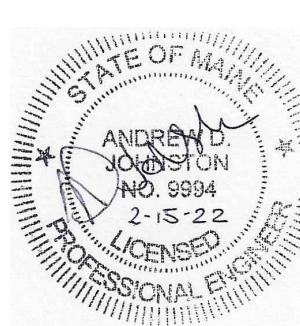


PAVING LEGEND

-  RE-CONSTRUCT
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P.E. ANDREW D. JOHNSTON
LIC. #9994

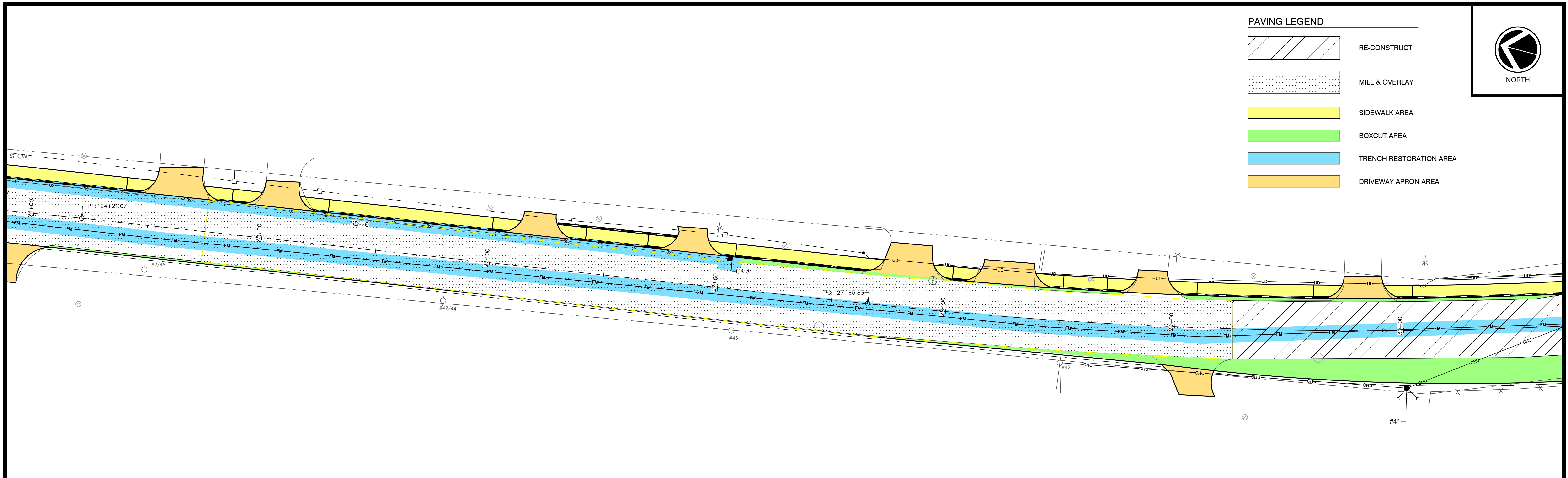
GORHAM ROAD / RTE. 114
PHASE II RECONSTRUCTION
ROADWAY PAVING PLAN
STA: 12+00 ~ 24+00
TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074



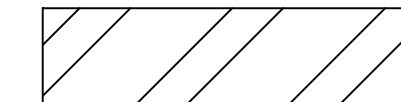
Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050

DRAWN: MPV	DATE: FEBRUARY 8, 2022
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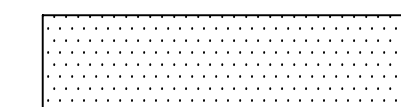
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BIDDING



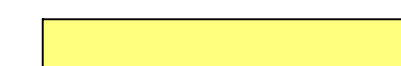
PAVING LEGEND



RE-CONSTRUCT



MILL & OVERLAY



SIDEWALK AREA



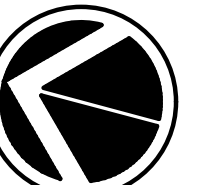
BOXCUT AREA



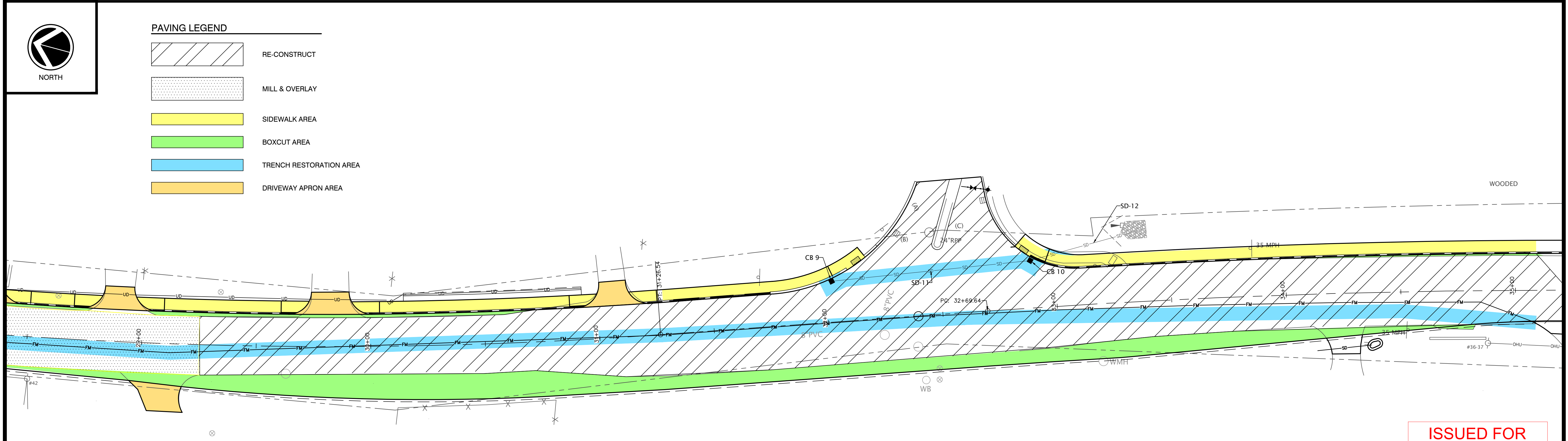
TRENCH RESTORATION AREA



DRIVEWAY APRON AREA



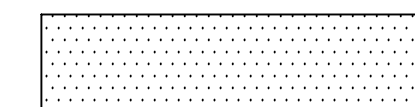
NORTH



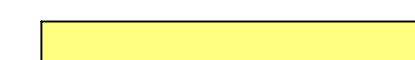
PAVING LEGEND



RE-CONSTRUCT



MILL & OVERLAY



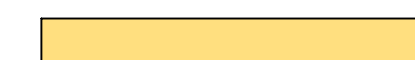
SIDEWALK AREA



BOXCUT AREA



TRENCH RESTORATION AREA



DRIVEWAY APRON AREA



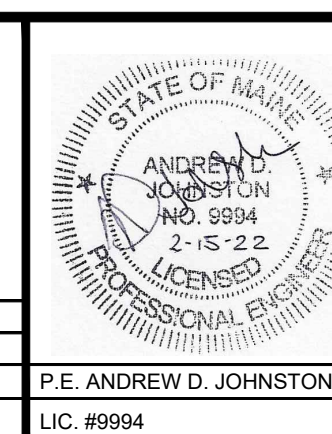
NORTH

ISSUED FOR
BIDDING

PLAN REFERENCE:

UTILITIES SHOWN ON THIS PLAN TAKEN FROM DRAWING BY: OWEN HASKELL, INC. L.L.C. PROFESSIONAL LAND SURVEYORS, TITLE: TOWN OF SCARBOROUGH EXISTING CONDITIONS SURVEY DATED NOVEMBER 23, 2015. SCALE: 1" = 40'. JOB NO: 2005-241 SC. THE ENGINEER MAKES NO GUARANTEE THAT THE INFORMATION SHOWN HEREON IS ACCURATE OR COMPLETE. IT IS THE RESPONSIBILITY OF ANY PARTY WORKING ON THE SITE TO VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO ANY EXCAVATION ACTIVITY AND TO NOTIFY DIGSAFE PRIOR TO ANY EXCAVATION.

REV	DATE	DESCRIPTION
REVISIONS		

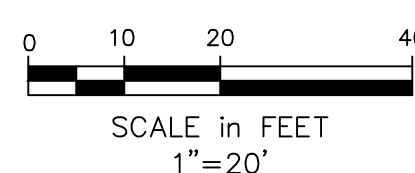


GORHAM ROAD / RTE. 114
PHASE II RECONSTRUCTION
ROADWAY PAVING PLAN
STA: 24+00 ~ 35+09
TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074

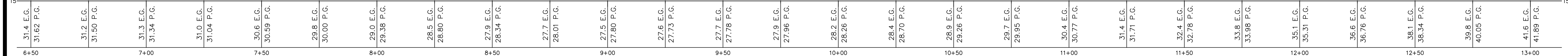
Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050
DRAWN: MPV
DESIGNED: ADJ
CHECKED: ADJ
FILE NAME:
SHEET: C-3.3
DATE: FEBRUARY 8, 2022
SCALE: 1" = 20'
JOB NO: 18-037



1. THERE ARE BOTH NEWLY INSTALLED AND RECENTLY ABANDONED HIGH PRESSURE GAS MAINS LOCATED ALONG THE EAST SIDE OF GORHAM ROAD AS INDICATED ON THESE PLANS. WHERE ANY DOUBT EXISTS AS TO THE LOCATION OR STATUS OF GAS MAIN PIPING STOP WORK IMMEDIATELY AND CONTACT UNITIL FOR VERIFICATION.
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GORHAM ROAD PLAN VIEW: STA. 6+50 ~ 13+00



GORHAM ROAD PROFILE VIEW: STA. 6+50 ~ 13+00

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

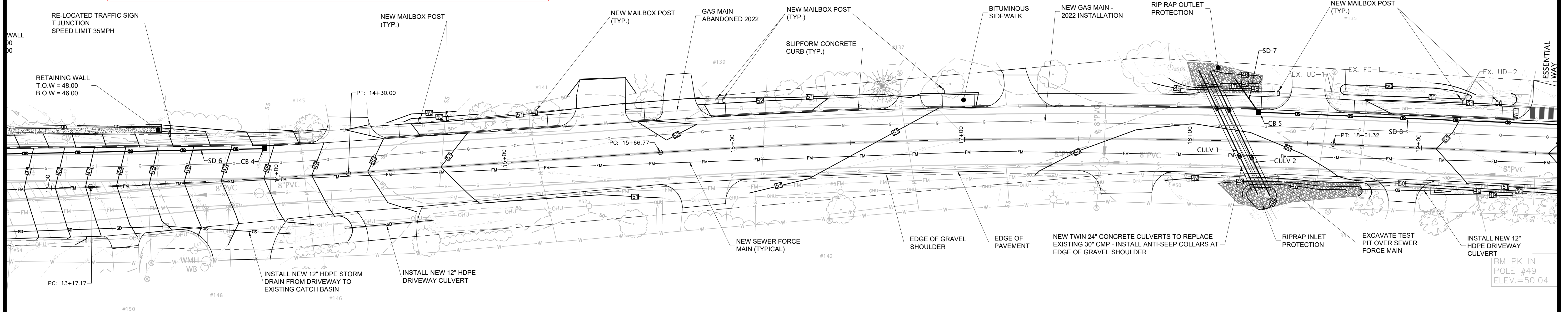
ISSUED FOR
BIDDING

				GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION ROADWAY PLAN & PROFILE STATIONS: 6+50 ~ 13+00	 Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050
REV	DATE	DESCRIPTION	P.E. ANDREW D. JOHNSTON LIC. #9994	TOWN OF SCARBOROUGH PLANNING & PUBLIC WORKS DEPARTMENT SCARBOROUGH, MAINE 04074	DRAWN: ADJ/MPV DESIGNED: ADJ CHECKED: ADJ FILE NAME: SHEET: C-4.2
		REVISIONS			DATE: FEBRUARY 8, 2022 SCALE: AS SHOWN JOB NO. 18-037

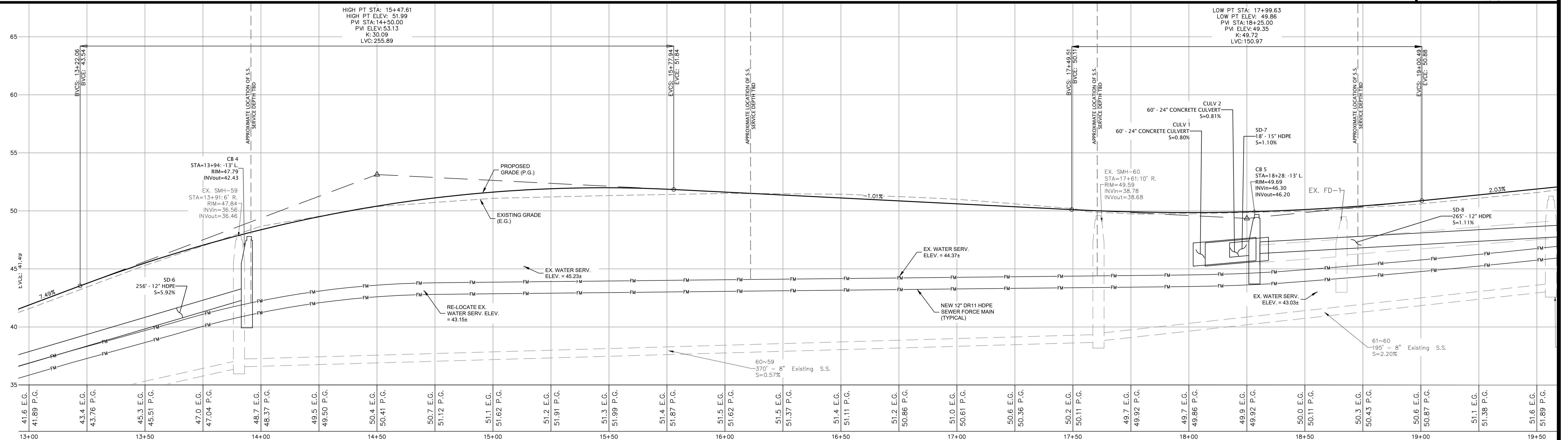
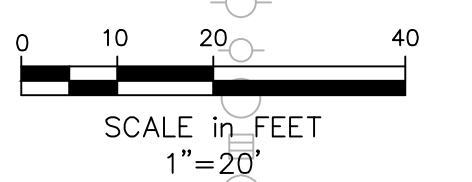


NOTES:

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4. DRAINAGE IMPROVEMENTS AND GRADING AT THE BACK OF SIDEWALK BETWEEN STATION 18+00 AND STATION 27+50 COMPLETED IN 2020 AND NOT REFLECTED ON TOPOGRAPHIC SURVEY.



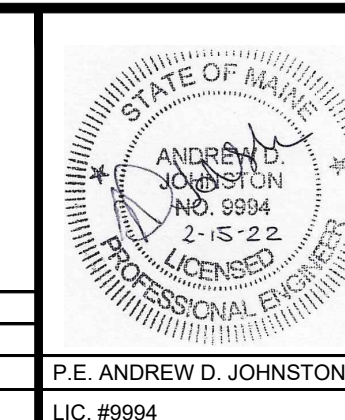
GORHAM ROAD PLAN VIEW: STA. 13+00 ~ 19+50



GORHAM ROAD PROFILE VIEW: STA. 13+00 ~ 19+50

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

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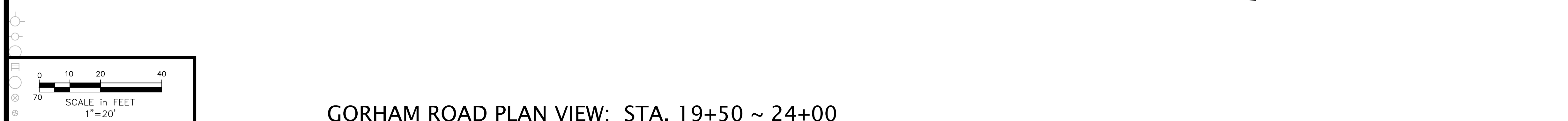


GORHAM ROAD / RTE. 114
PHASE II RECONSTRUCTION
ROADWAY PLAN & PROFILE
STATIONS: 13+00 ~ 19+50
TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050
DRAWN: ADJ/MPV
DESIGNED: ADJ
CHECKED: ADJ
FILE NAME:
SHEET: C-4.3
DATE: FEBRUARY 8, 2022
SCALE: AS SHOWN
JOB NO. 18-037



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PROFILE SCALE:
HORIZONTAL: 1" = 20'
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DRAINAGE STRUCTURE TABLE				
STRUCTURE	RIM ELEV.	INVERT IN	INVERT OUT	SUR.
CB 1	32.68	28.30 (SD-1)	28.16 (SD-2)	26.
CB 2	27.50		22.80 (SD-4)	21.
CB 3	31.90	27.30 (SD-6)	27.20 (SD-5)	25.
CB 4	47.79		42.43 (SD-6)	40.
CB 5	49.69	46.30 (SD-8)	46.20 (SD-7)	44.
CB 6	53.14	49.35 (SD-9)	49.25 (SD-8)	47.
CB 7	54.70	50.90 (SD-10)	50.80 (SD-9)	48.
CB 8	58.11		54.10 (SD-10)	52.
CB 9	64.90		60.90 (SD-11)	58.
CB 10	64.20	60.20 (SD-11)	60.15 (SD-12)	58.
EX CB 1	31.79	26.57 (SD-2)	26.47 (SD-3)	23.
EX CB 2	29.63	25.63 (SD-5)		24.

DRAIN PIPE TABLE							
PIPE	START	INV.	END	INV.	SIZE	L.F.	SLOP.
CULV 1		45.72		45.24	24"	60'	0.80%
CULV 2		45.73		45.24	24"	60'	0.81%
SD-1		29.08	CB 1	28.30	15"	18'	4.42%
SD-2	CB 1	28.16	EX CB 1	26.57	12"	170'	0.94%
SD-3	EX CB 1	26.47		26.00	15"	57'	0.82%
SD-4	CB 2	22.80		22.50	12"	201'	1.50%
SD-5	CB 3	27.20	EX CB 2	25.63	12"	37'	4.26%
SD-6	CB 4	42.43	CB 3	27.30	12"	256'	5.92%
SD-7	CB 5	46.20		46.00	15"	18'	1.10%
SD-8	CB 6	49.25	CB 5	46.30	12"	265'	1.11%
SD-9	CB 7	50.80	CB 6	49.35	12"	288'	0.50%
SD-10	CB 8	54.10	CB 7	50.90	12"	324'	0.99%
SD-11	CB 9	60.90	CB 10	60.20	12"	87'	0.80%
SD-12	CB 10	60.15		60.00	12"	49'	0.31%

NEW E.O.P.

SINGLE WHITE LINE

NEW CURBING

DOUBLE YELLOW LINE

NEW GRADE LINE

NEW STORM DRAIN

NEW OVERHEAD UTILITY

NEW CROSSWALK

NEW RETAINING WALL

RIP-RAP AREA

NEW CATCH BASIN

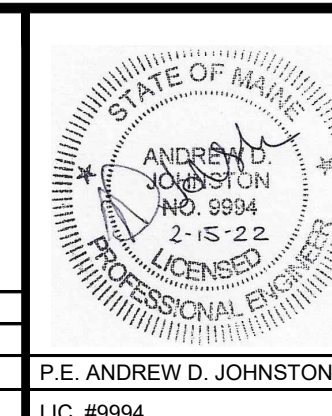
NEW UTILITY POLE

ISSUED FOR
BIDDING

TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074

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

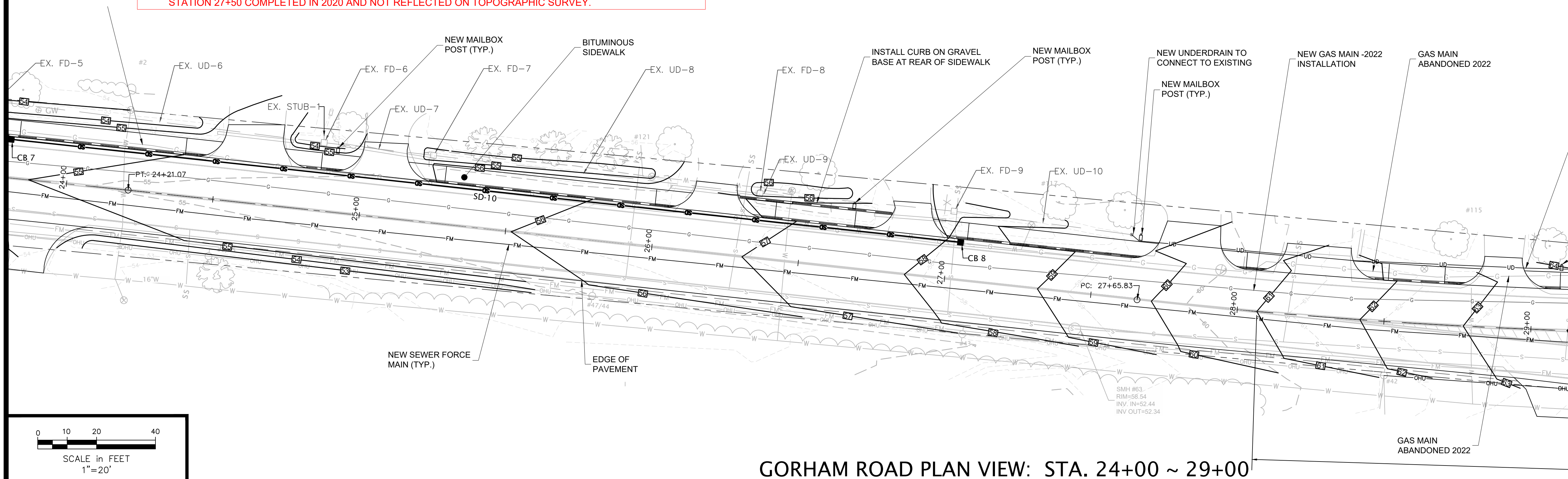
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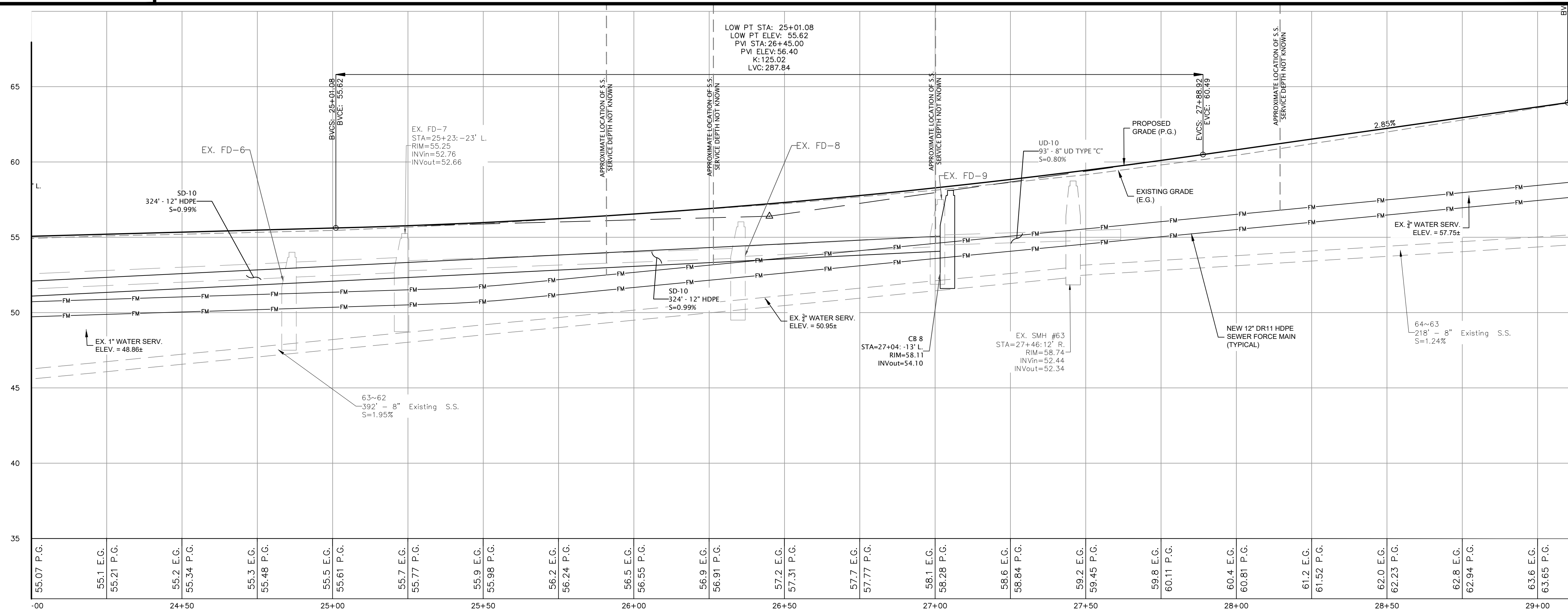


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GORHAM ROAD PLAN VIEW: STA. 24+00 ~ 29+00



GORHAM ROAD PROFILE VIEW: STA. 24+00 ~ 29+00

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

DRAINAGE STRUCTURE TABLE				
STRUCTURE	RIM ELEV.	INVERT IN	INVERT OUT	SUMP
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CB 2	27.50		22.80 (SD-4)	21.30
CB 3	31.90	27.30 (SD-6)	27.20 (SD-5)	25.20
CB 4	47.79		42.43 (SD-6)	40.43
CB 5	49.69	46.30 (SD-8)	46.20 (SD-7)	44.20
CB 6	53.14	49.35 (SD-9)	49.25 (SD-8)	47.25
CB 7	54.70	50.90 (SD-10)	50.80 (SD-9)	48.80
CB 8	58.11		54.10 (SD-10)	52.10
CB 9	64.90		60.90 (SD-11)	58.90
CB 10	64.20	60.20 (SD-11)	60.15 (SD-12)	58.10
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DRAIN PIPE TABLE							
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LEGEND

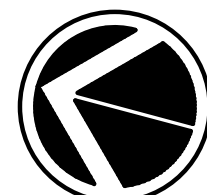
NEW E.O.P.	
SINGLE WHITE LINE	
NEW CURBING	
DOUBLE YELLOW LINE	
NEW GRADE LINE	
NEW STORM DRAIN	SD
NEW OVERHEAD UTILITY	OHU
NEW CROSSWALK	
NEW RETAINING WALL	
RIP-RAP AREA	
NEW CATCH BASIN	
NEW UTILITY POLE	

ISSUED FOR
BIDDING

GORHAM ROAD / RTE. 114
PHASE II RECONSTRUCTION
ROADWAY PLAN & PROFILE
STATIONS: 24+00 ~ 29+00

TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074

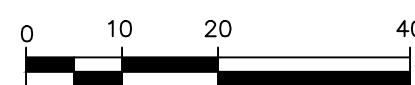
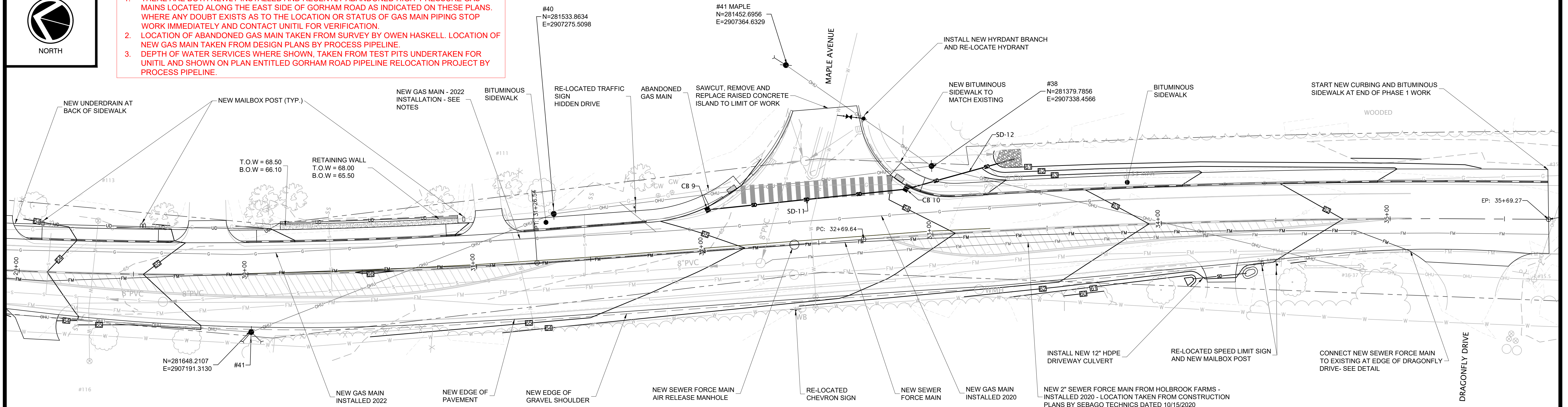
Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
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SHEET: C-4.5



NORTH

NOTES:

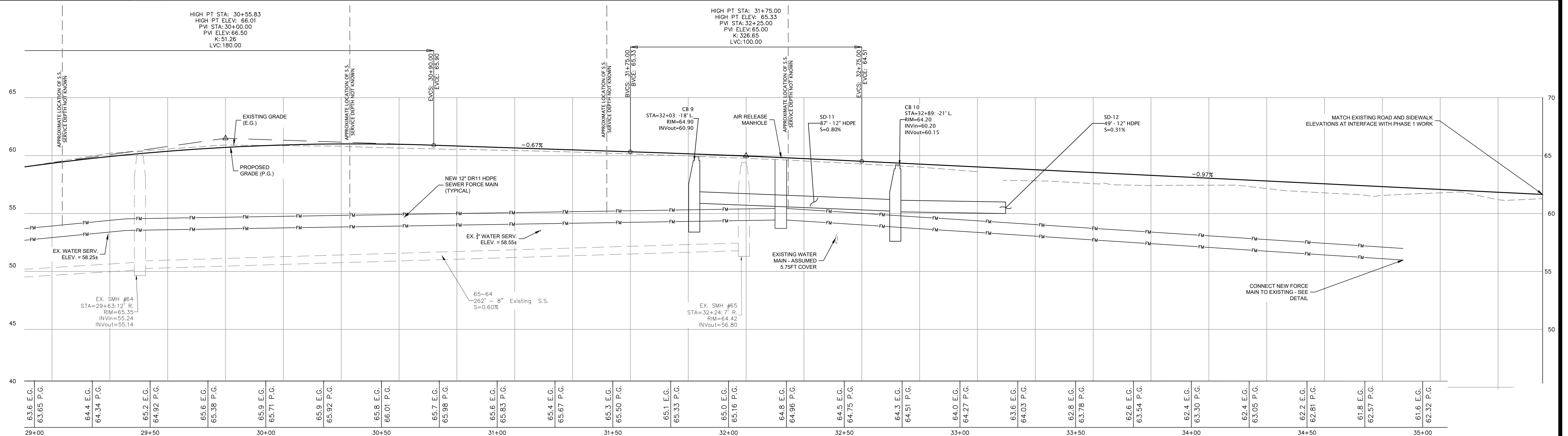
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SCALE in FEET
1"=20'

GORHAM ROAD PLAN VIEW: STA. 29+00 ~ 35+69.27

ISSUED FOR
BIDDING



GORHAM ROAD PROFILE VIEW: STA. 29+00 ~ 35+69.27

PROFILE SCALE:
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VERTICAL: 1" = 4'

				GORHAM ROAD / RTE. 114		 Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050	
				PHASE II RECONSTRUCTION			
				ROADWAY PLAN & PROFILE			
				STATIONS: 29+00 ~ 35+09.01			
				TOWN OF SCARBOROUGH		DRAWN: ADJ/MPV	DATE: FEBRUARY 8, 2022
				PLANNING & PUBLIC WORKS DEPARTMENT		DESIGNED: ADJ	SCALE: AS SHOWN
				SCARBOROUGH, MAINE 04074		CHECKED: ADJ	JOB NO. 18-037
						FILE NAME:	
REV	DATE	DESCRIPTION	P.E. ANDREW D. JOHNSTON			SHEET: C-4.6	
		REVISIONS	LIC. #9994				

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 SEEDED 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 DOWNGRAIENT 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 SEEDED 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 SEEDED OR WHICH DO NOT OBTAIN A SATISFACTORY GROWTH BY OCTOBER 1 SHALL BE SEEDED 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 SEEDED 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.
- RIE 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 RESEEDED 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.

- 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.
- DEBRIS AND OTHER MATERIAL. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER, MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
- COMPLY WITH THE REQUIREMENTS OF SPECIFICATION SECTION 024116, STRUCTURE DEMOLITION MANAGEMENT, FOR REMOVAL AND DISPOSAL OF CONSTRUCTION DEBRIS AND WASTE.
- 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

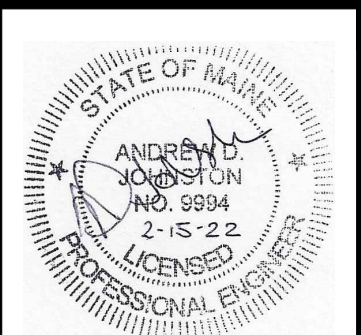
- INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION AND STORM WATER CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE A WEEK AND BEFORE AND AFTER A STORM EVENT, PRIOR TO COMPLETION OF PERMANENT STABILIZATION. A 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.
- 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.
- 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.
- 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.
- 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.
- 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. PRE-CONSTRUCTION MEETING REQUIRED


- PRE-CONSTRUCTION CONFERENCE: PRIOR TO ANY CONSTRUCTION AT THE SITE, REPRESENTATIVES OF THE CONTRACTOR, THE ARCHITECT, THE OWNER, AND THE SITE DESIGN ENGINEER 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.

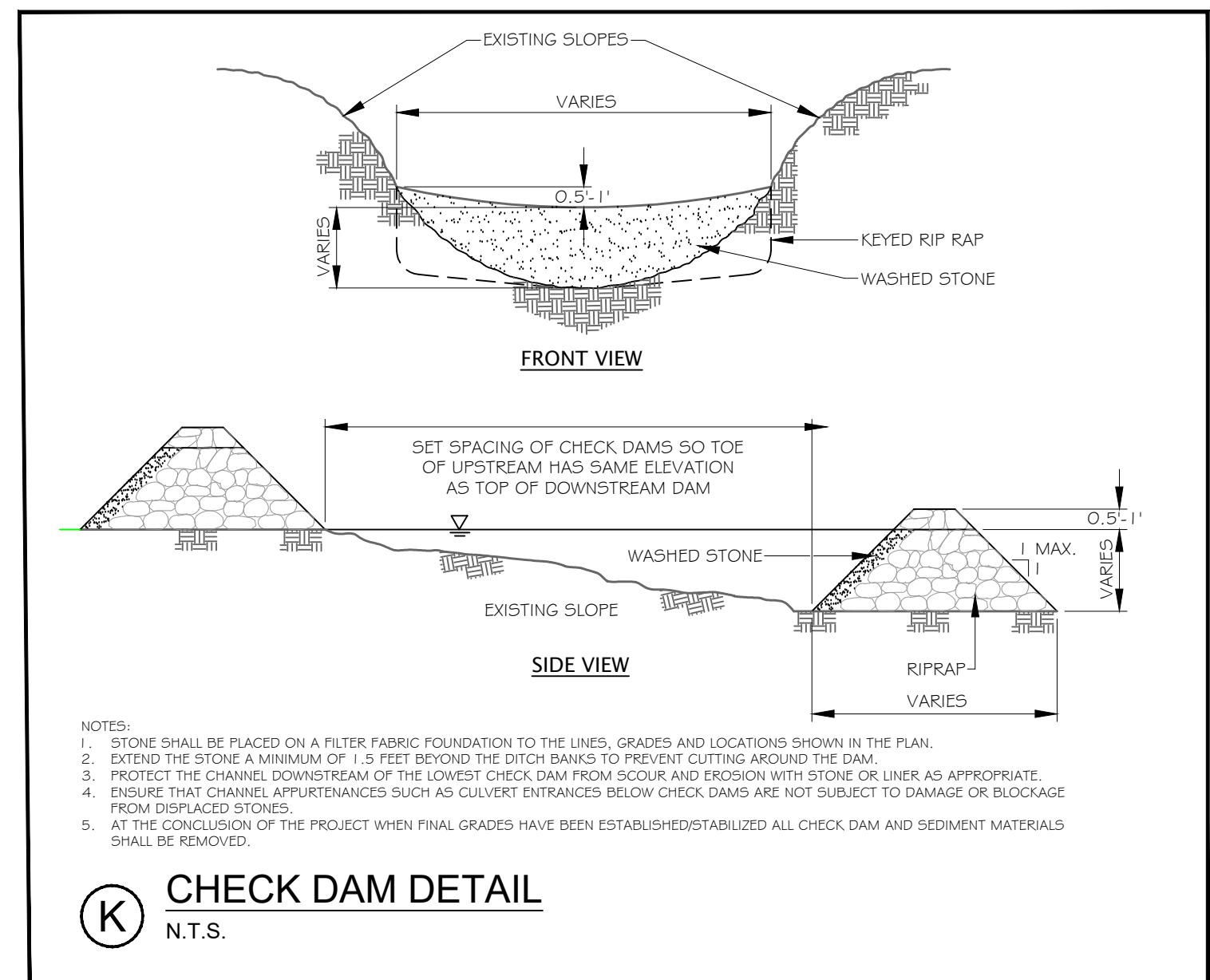
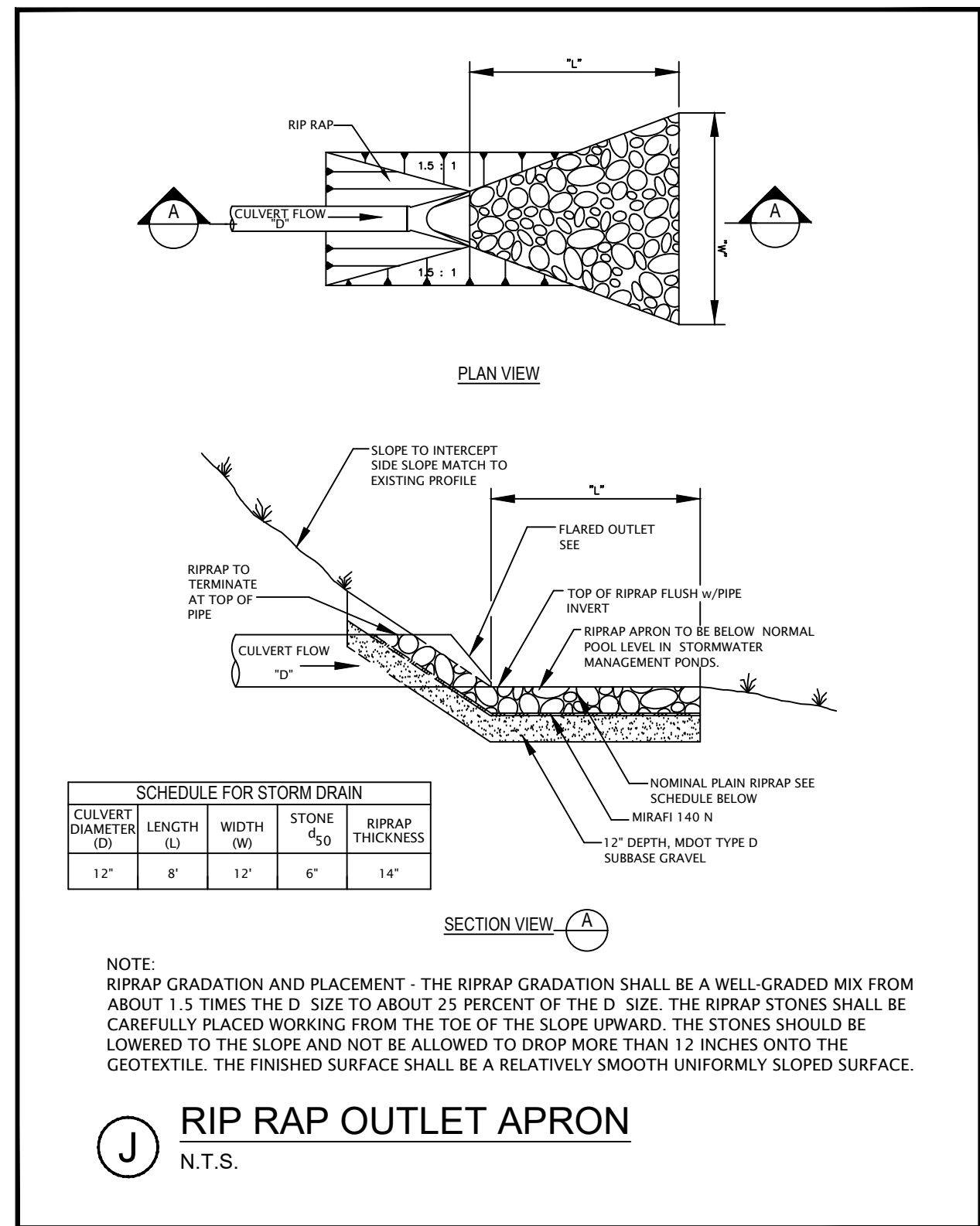
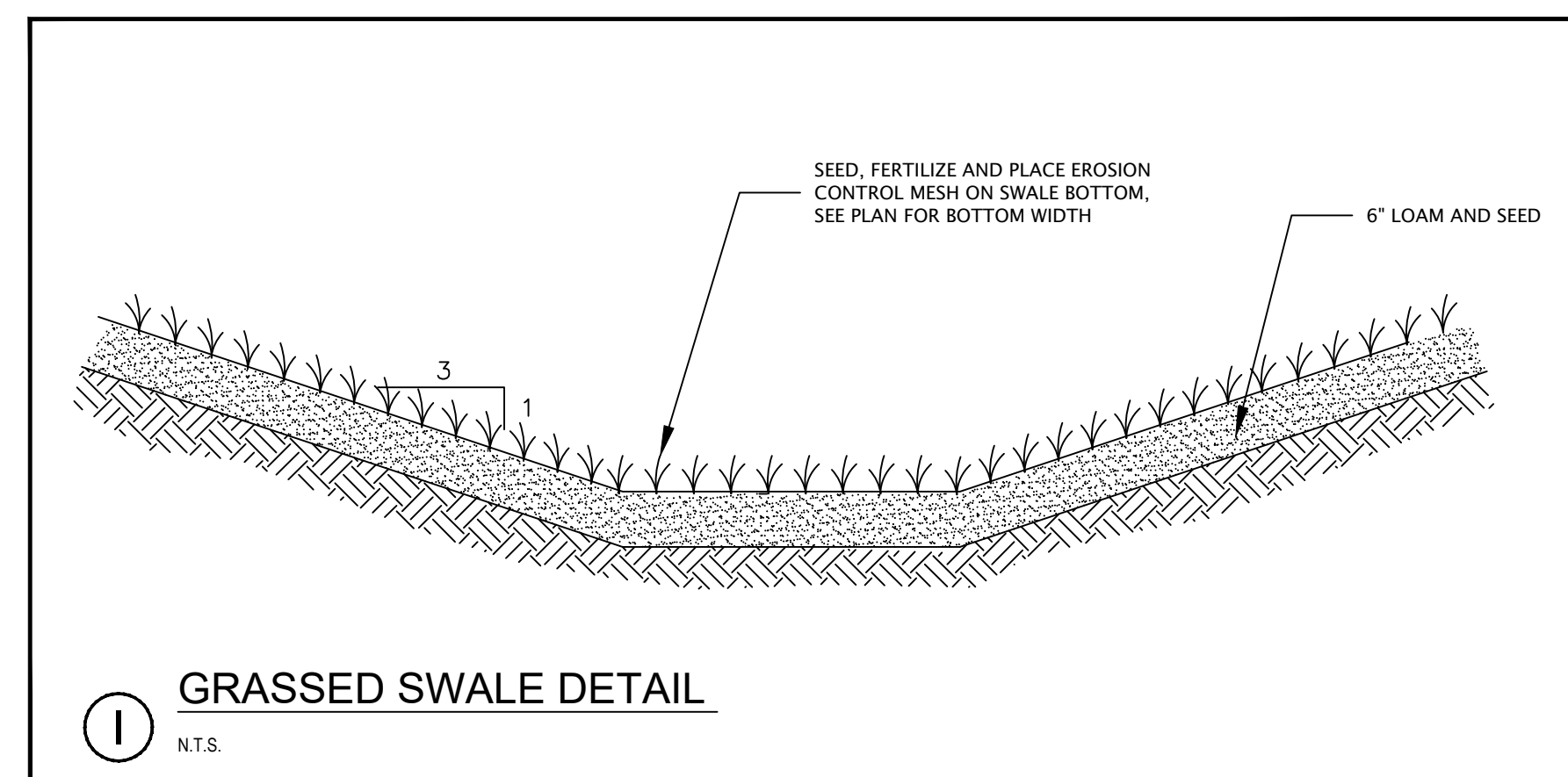
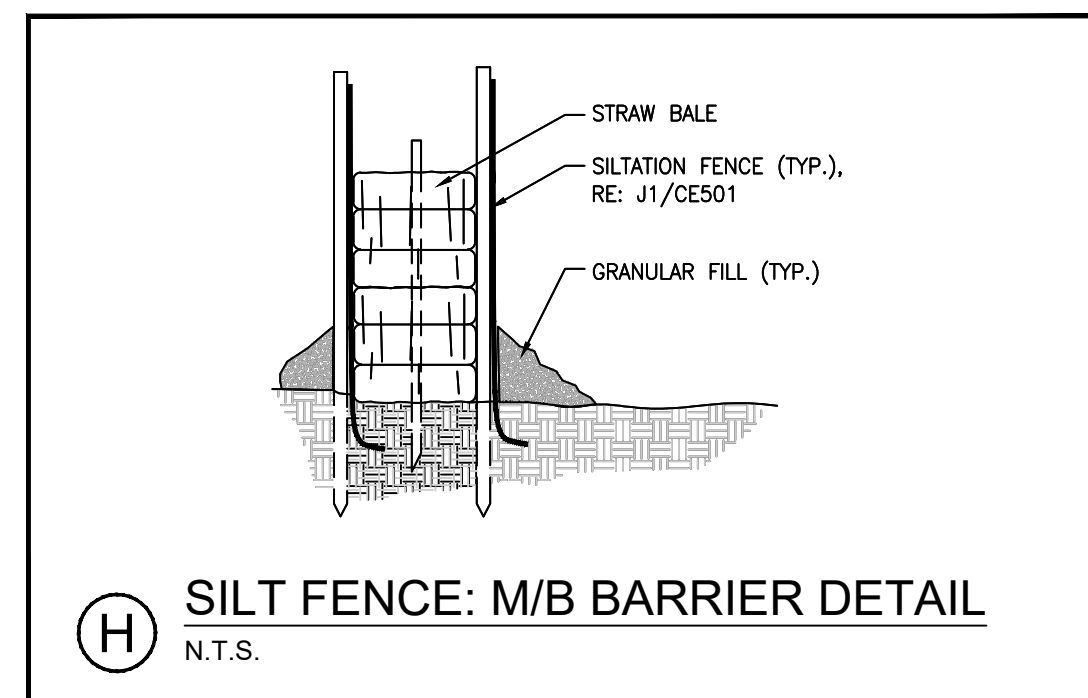
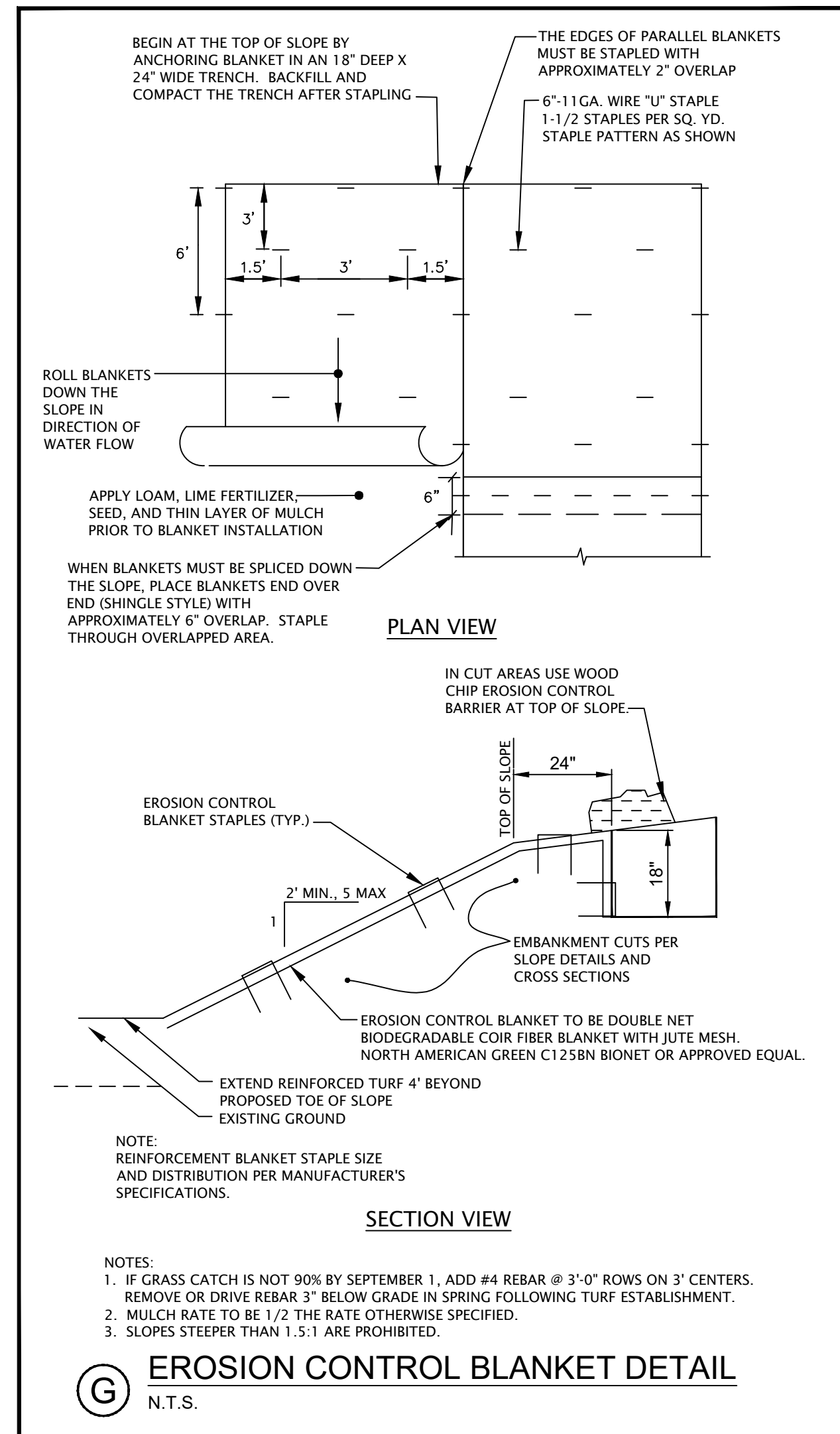
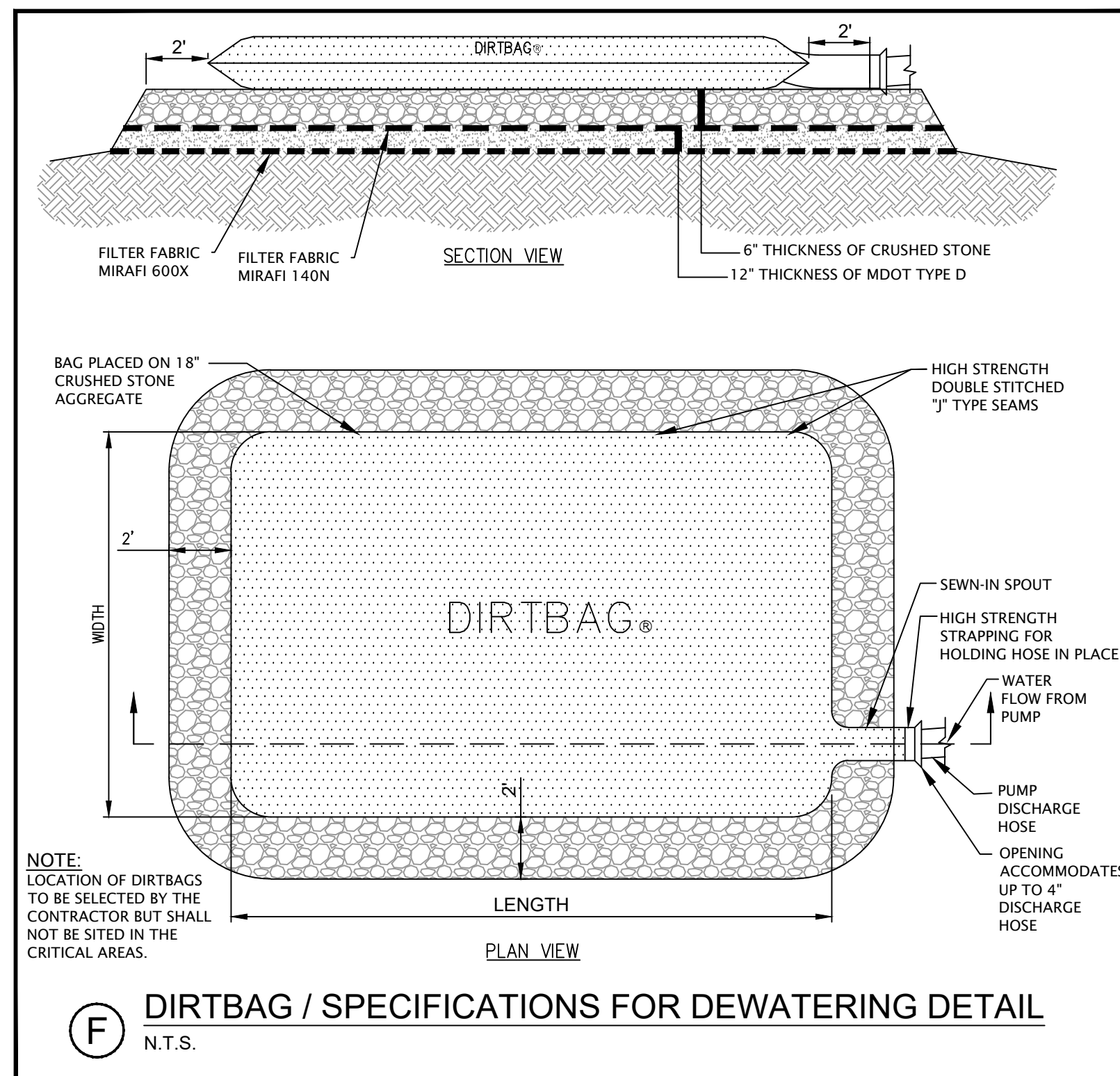
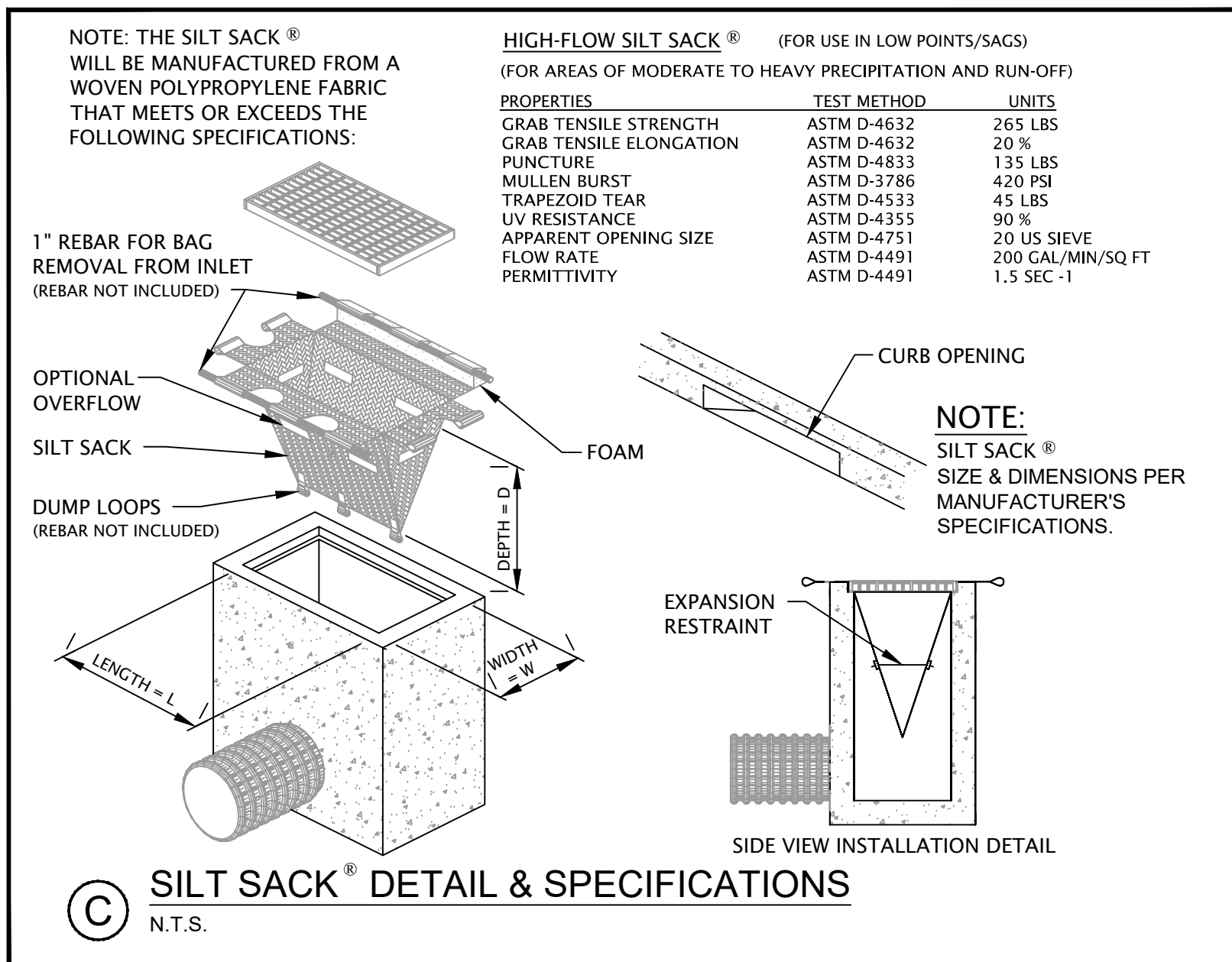
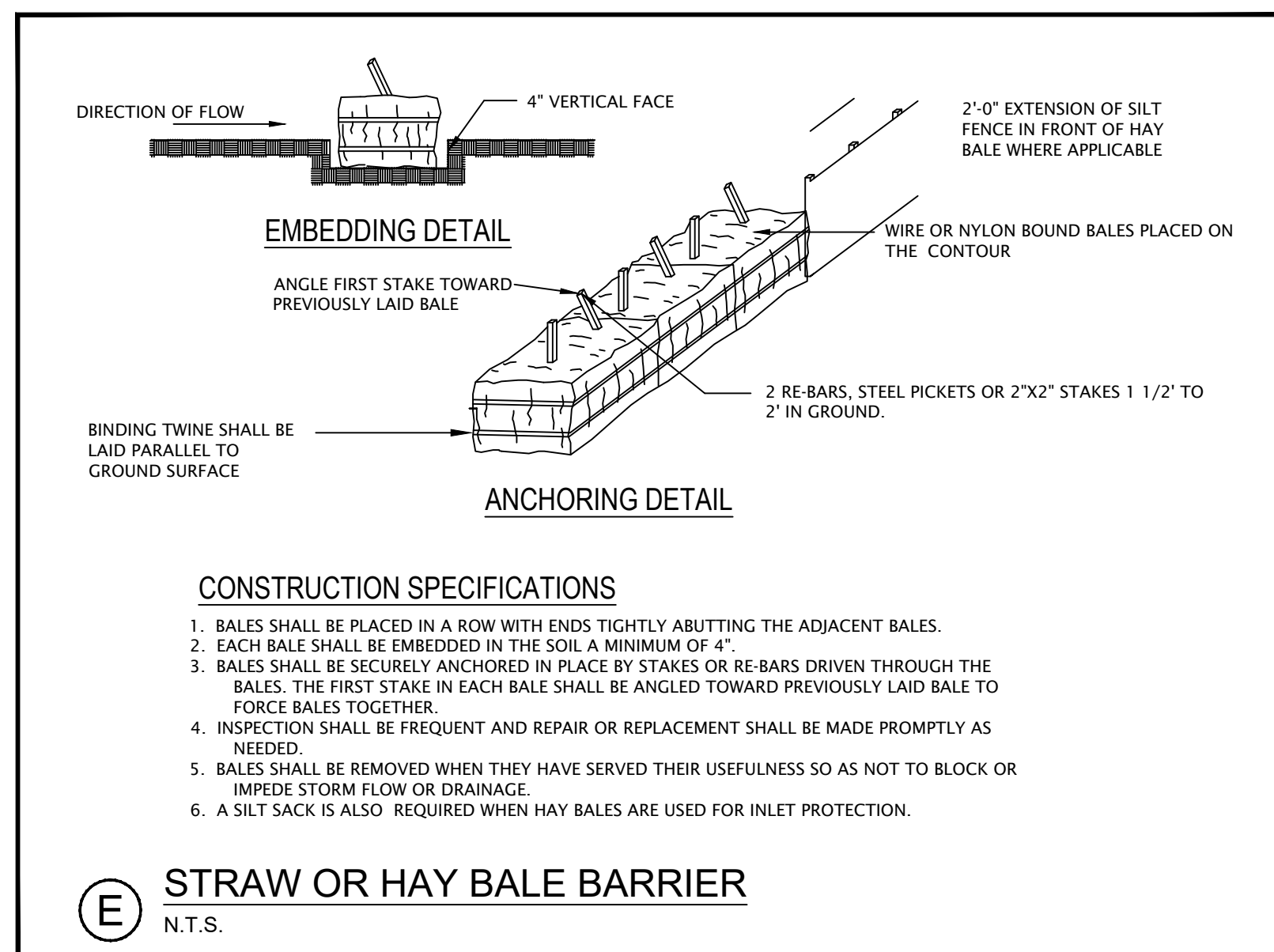
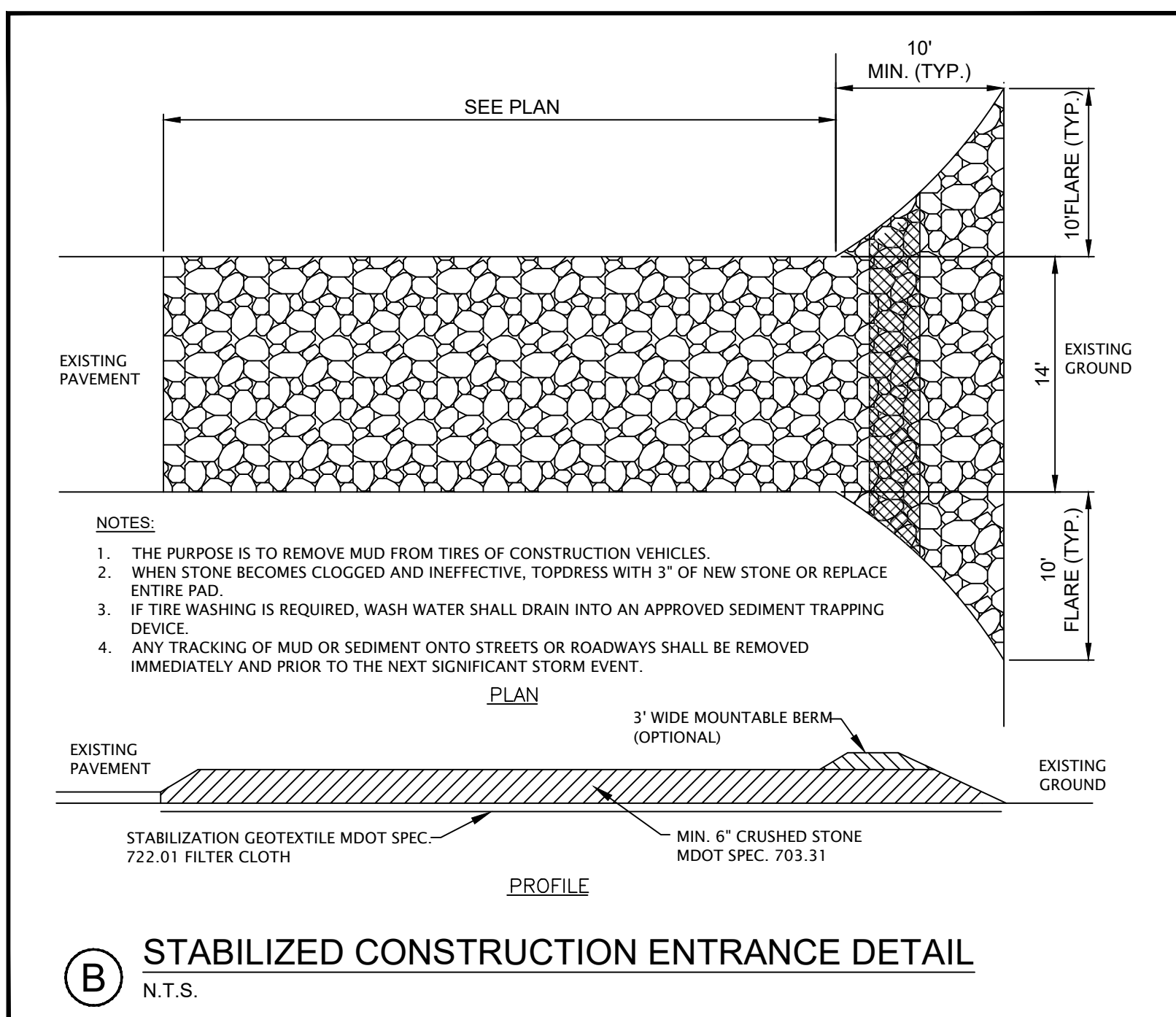
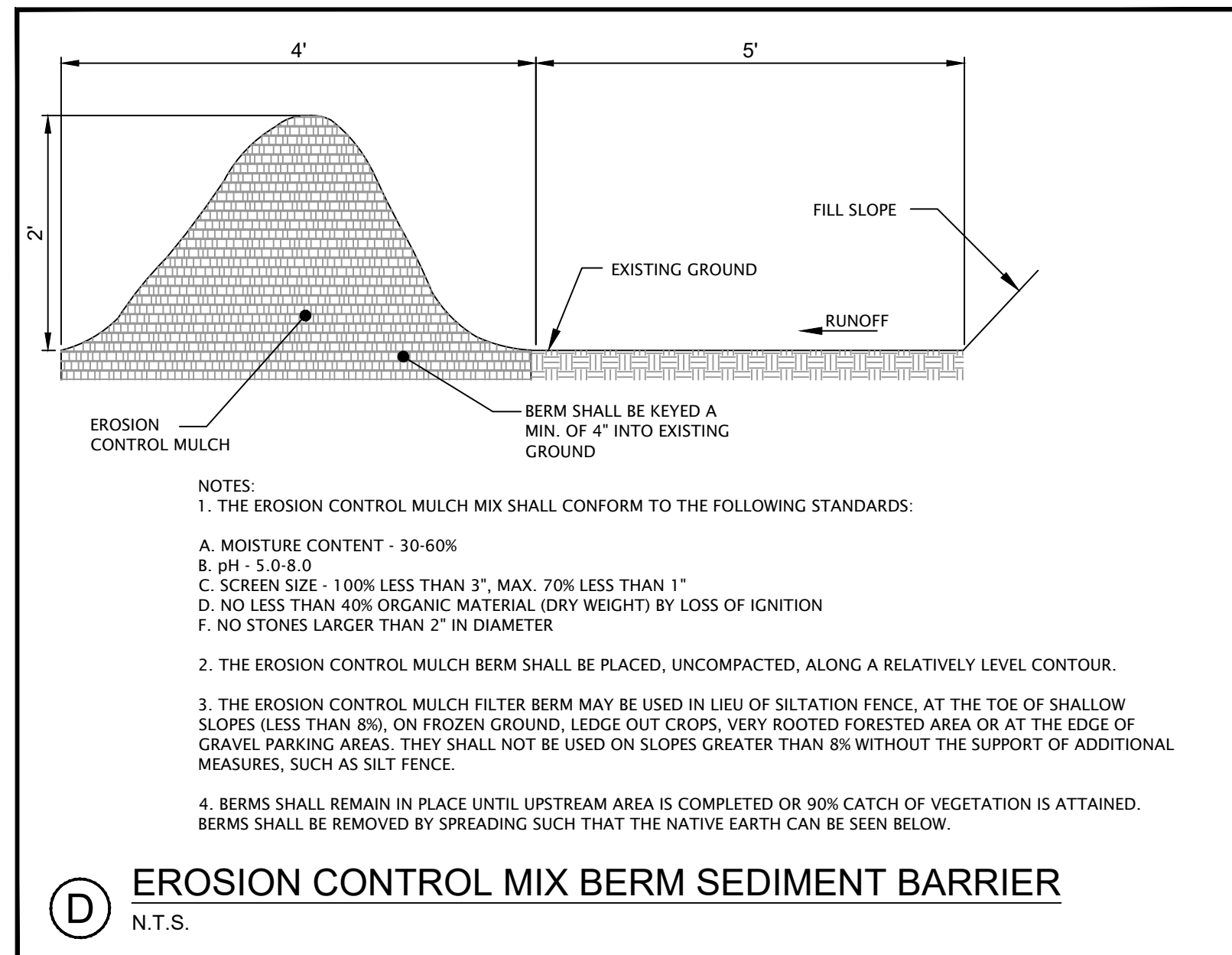
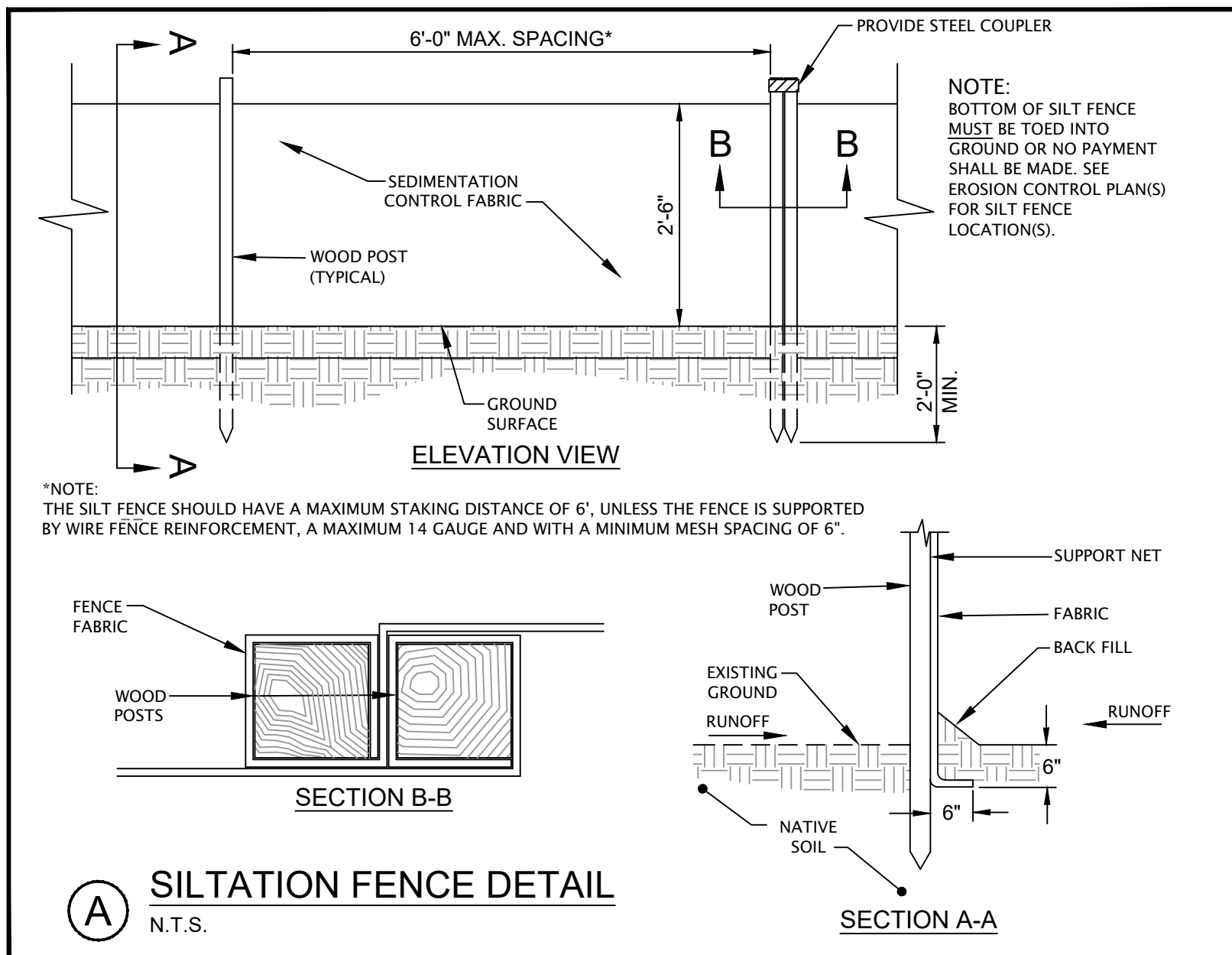
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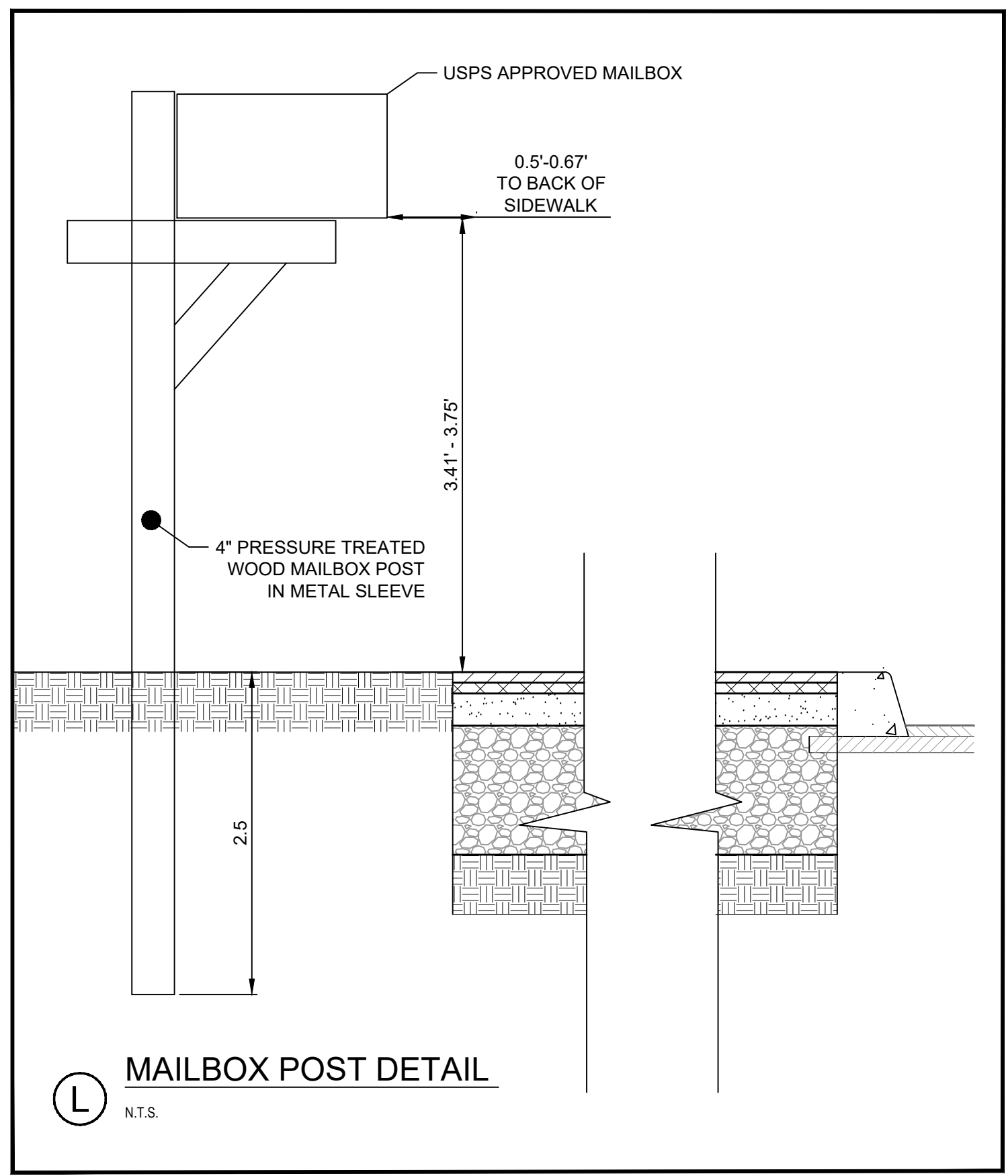
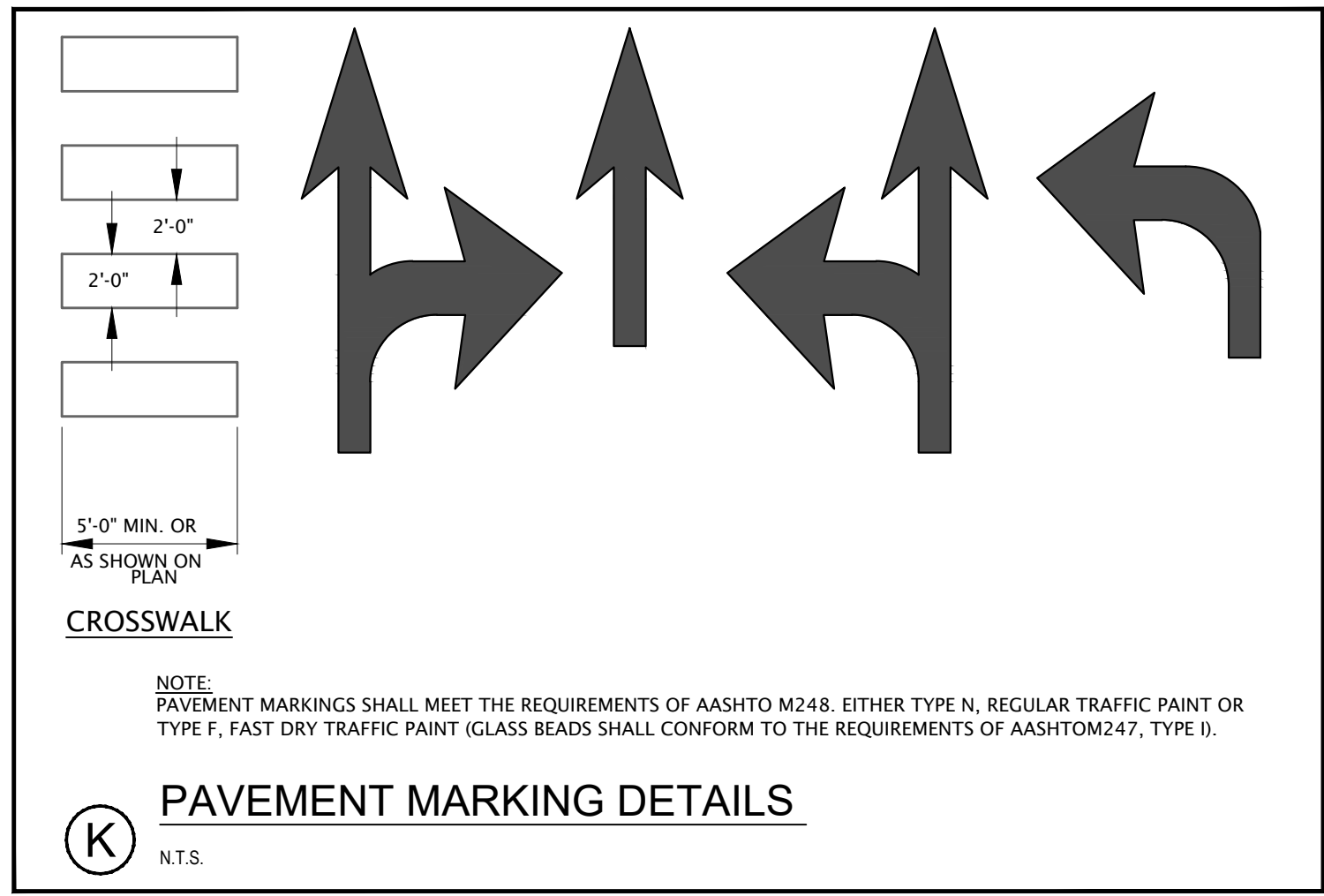
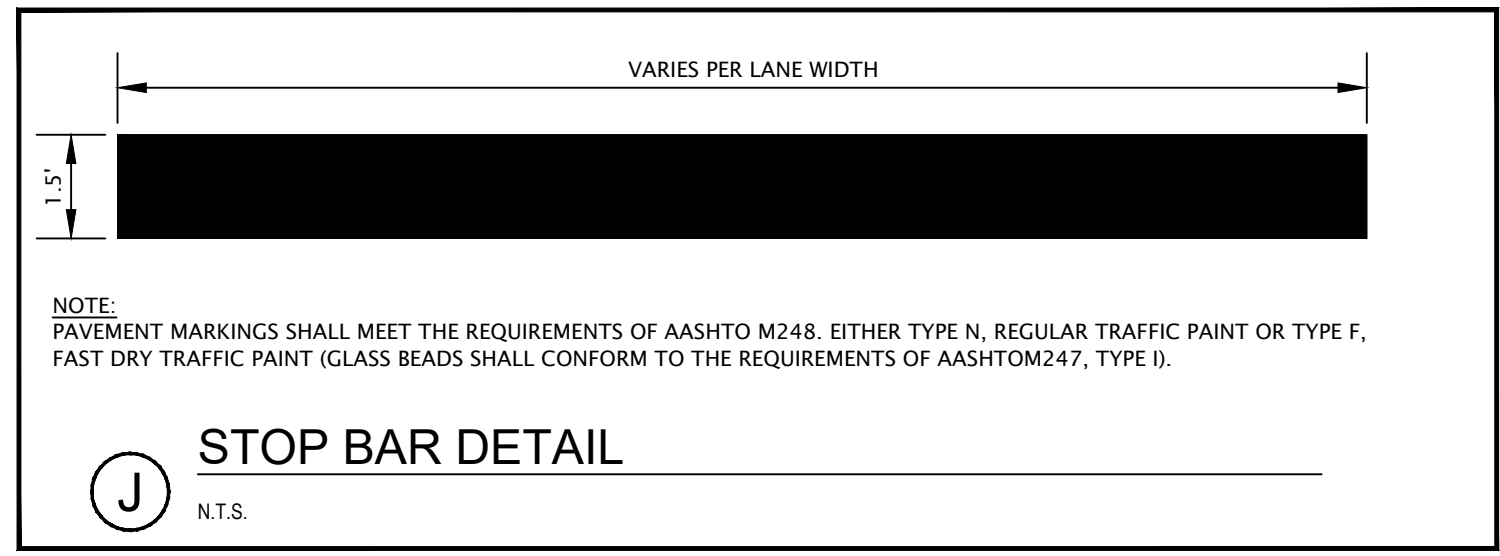
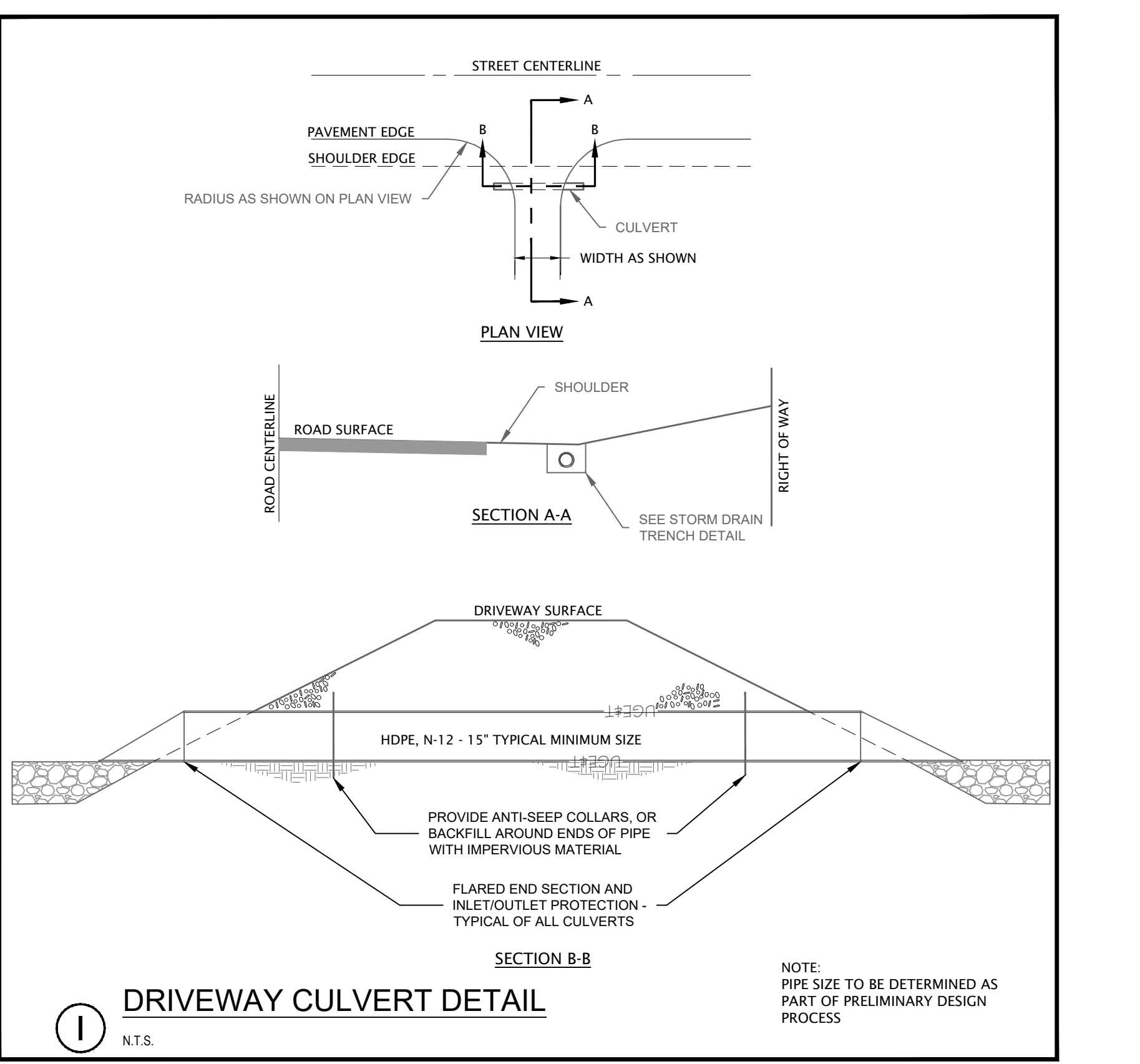
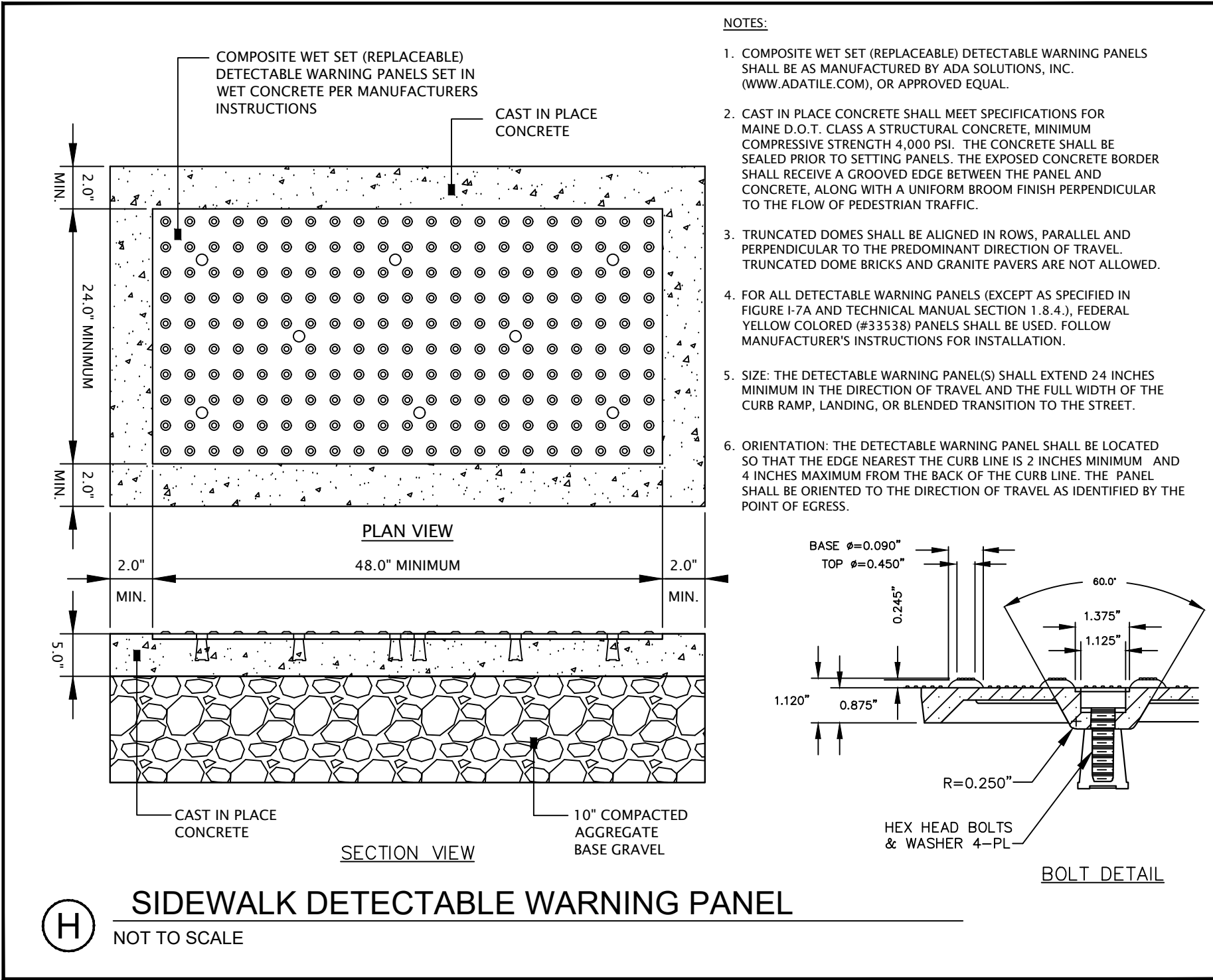
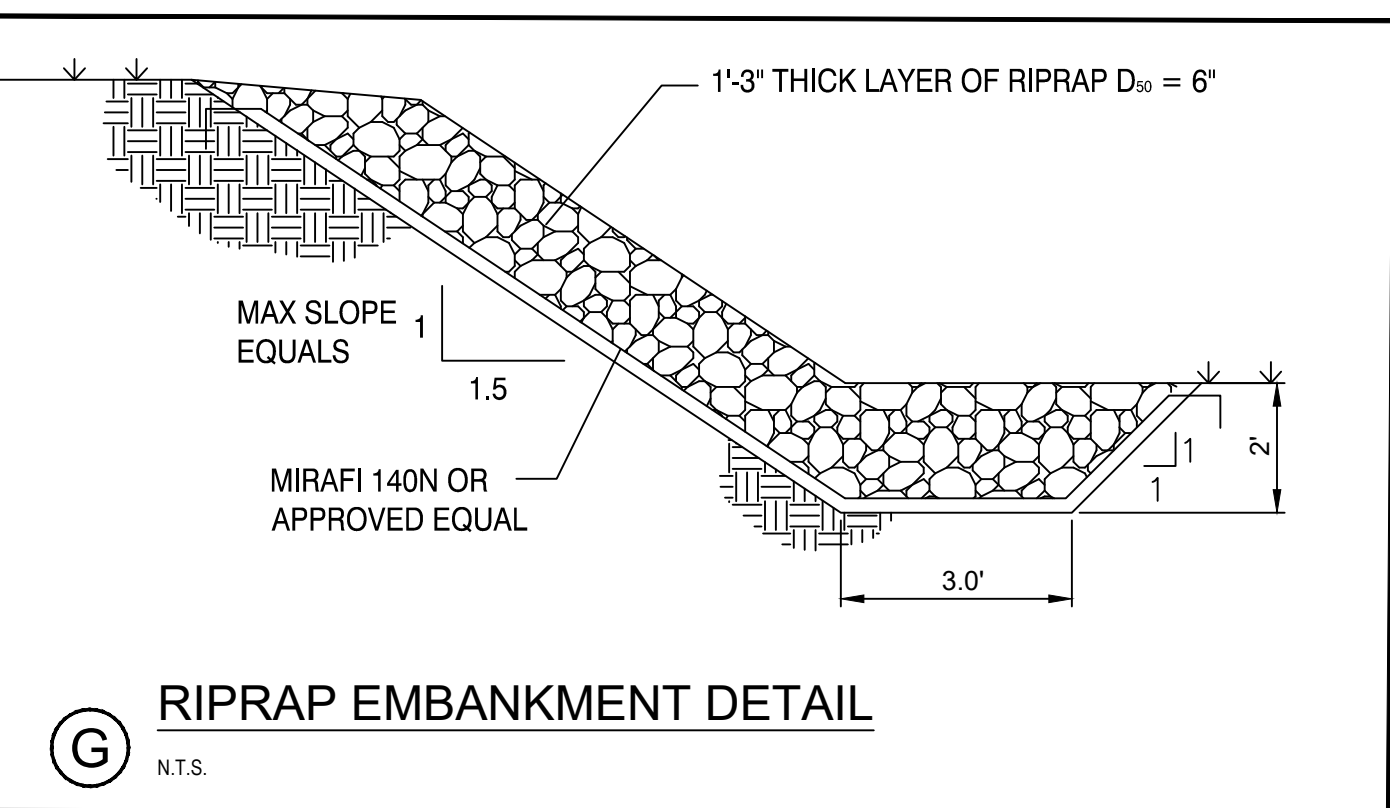
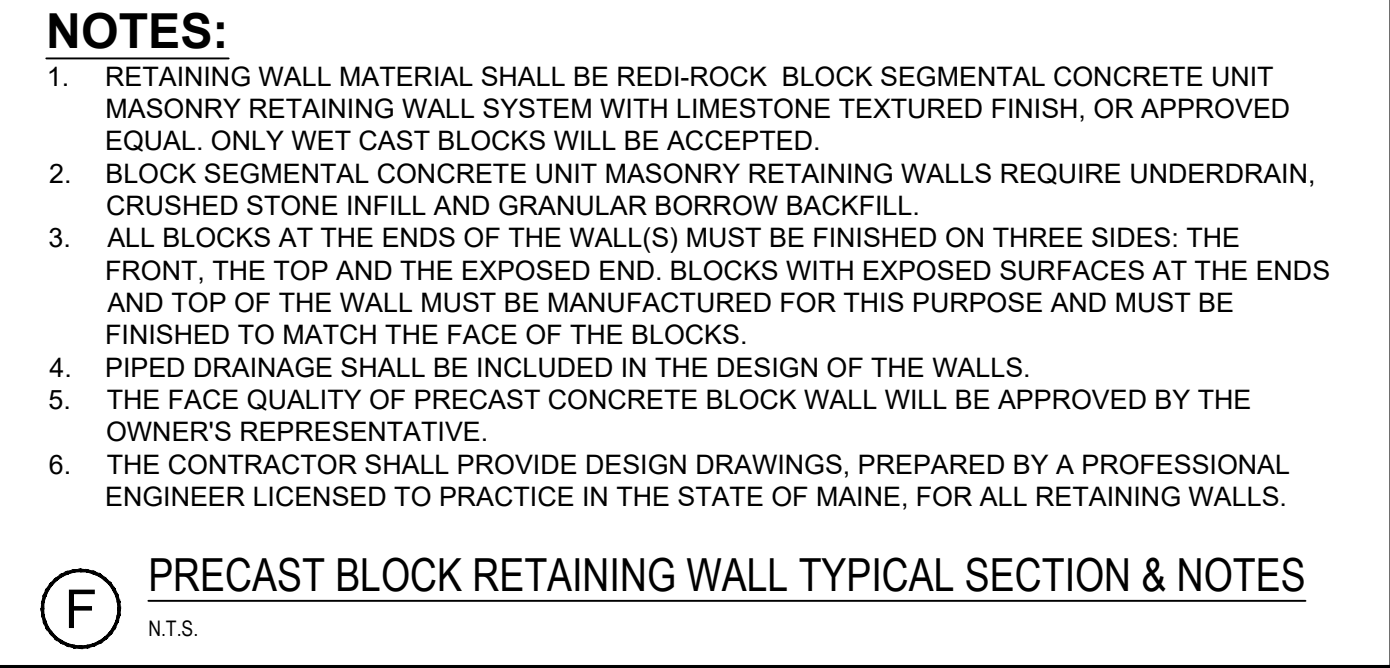
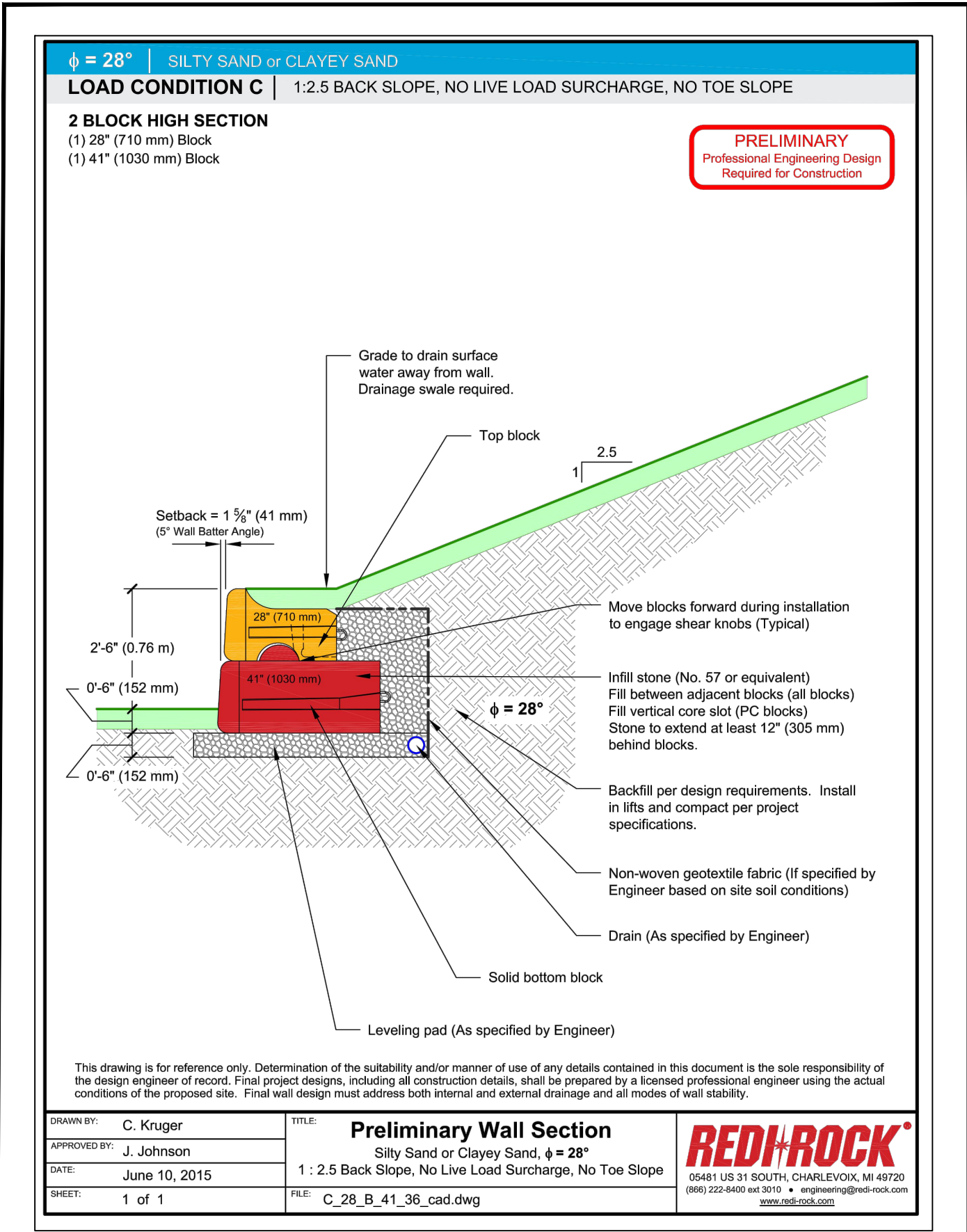
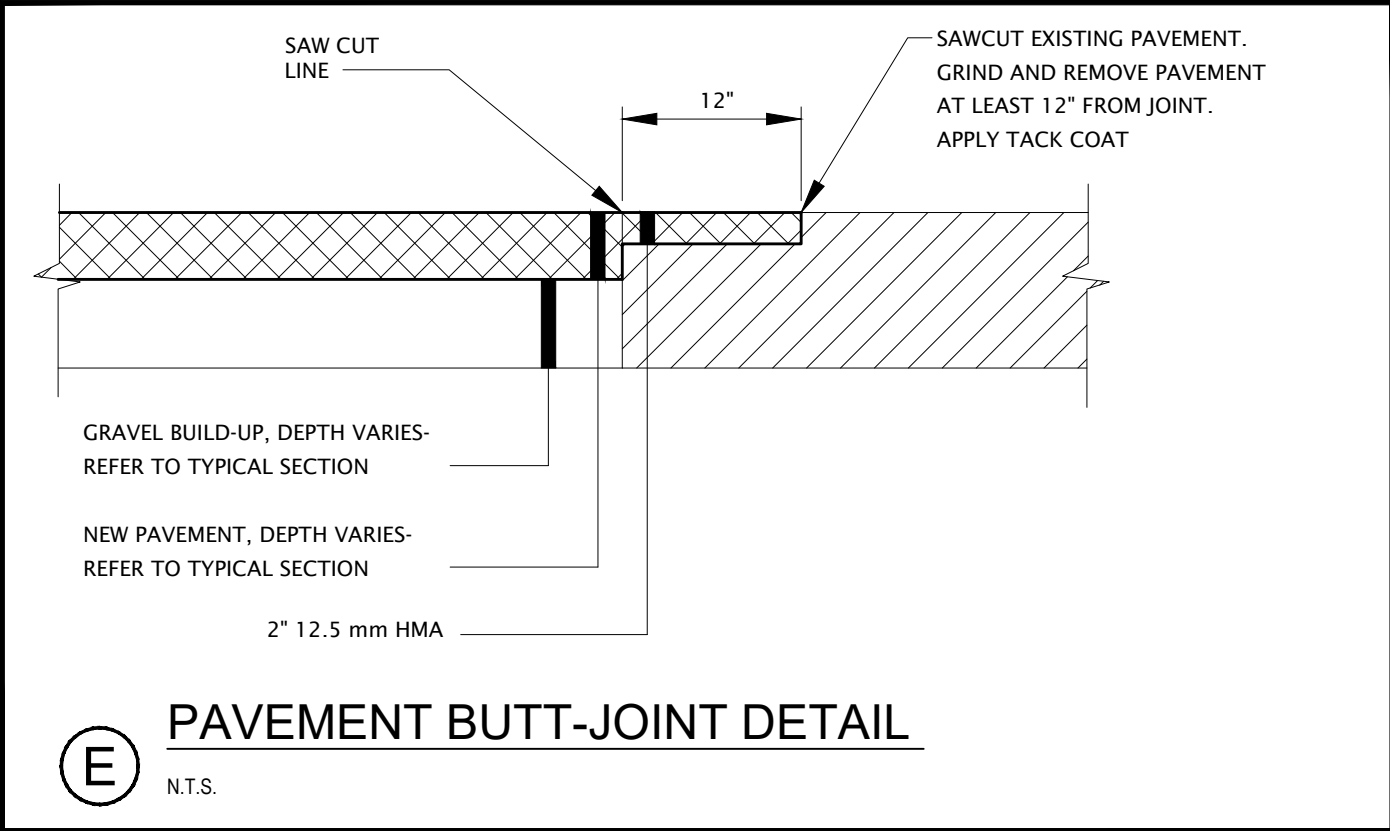
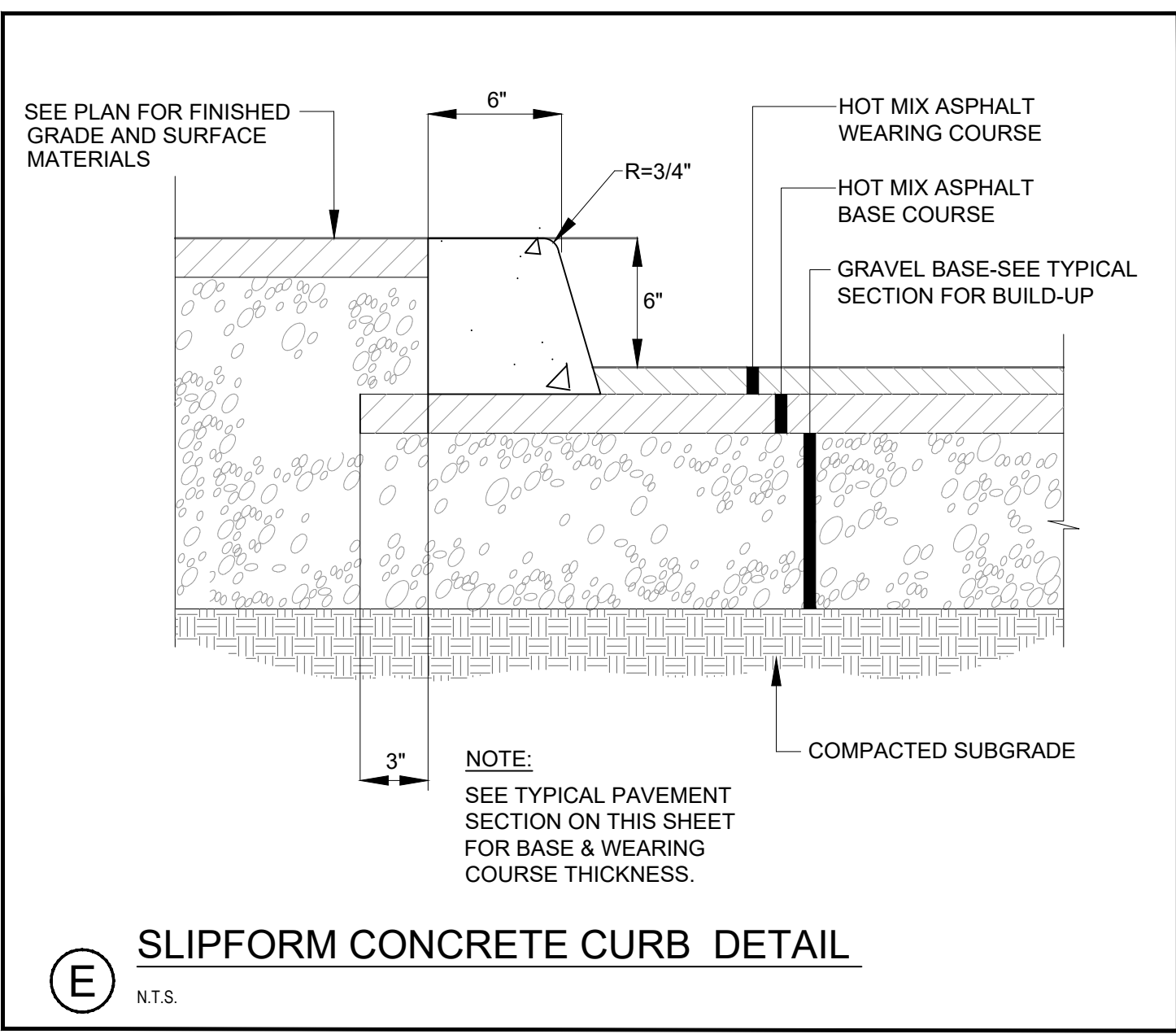
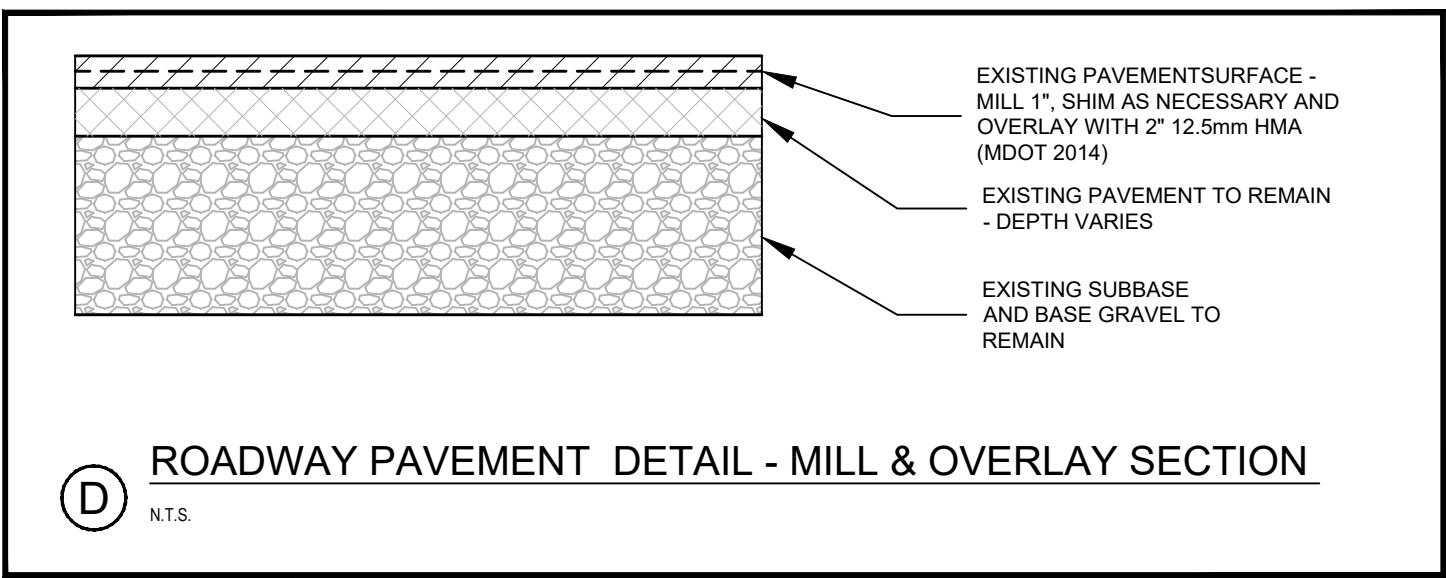
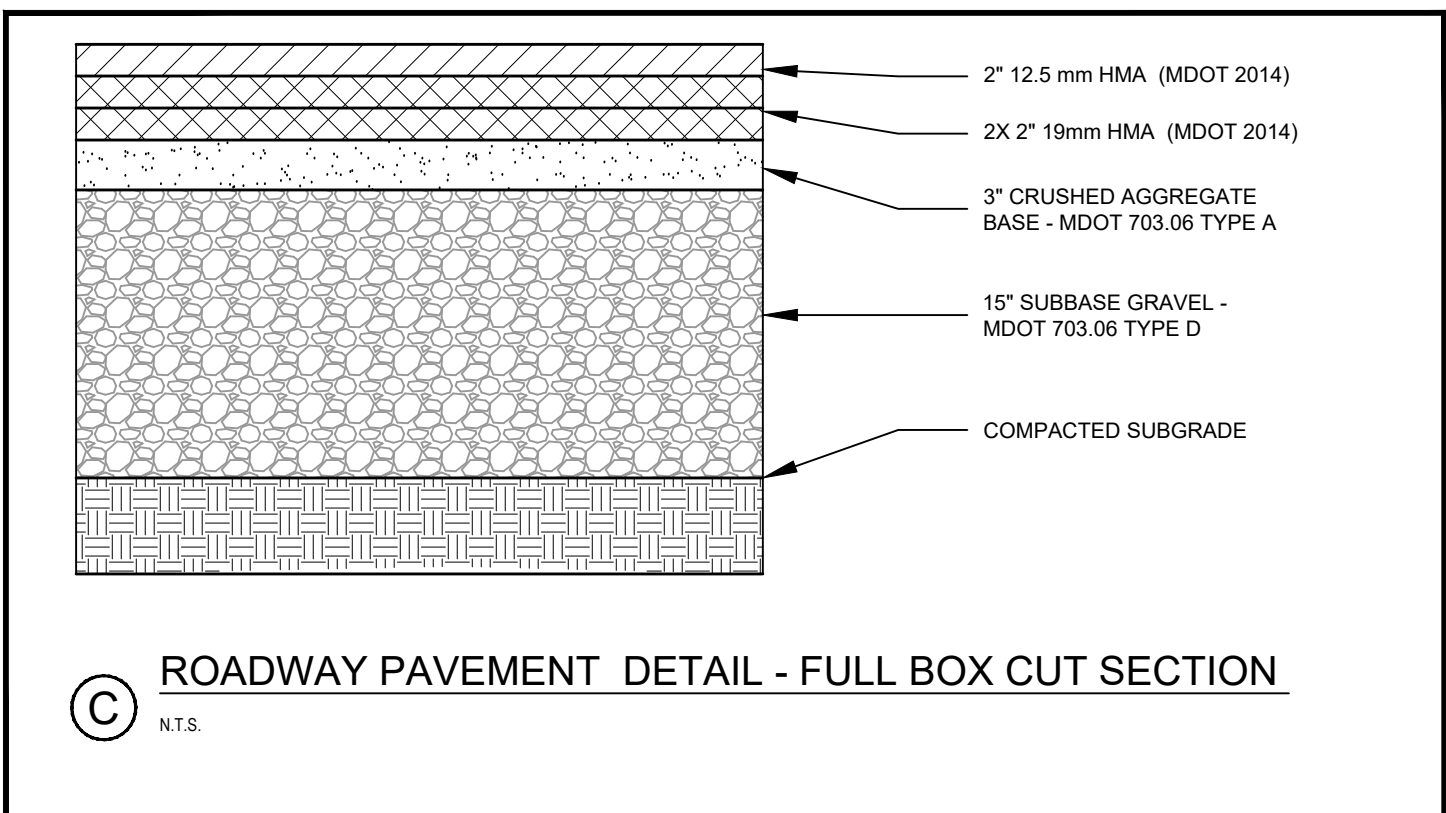
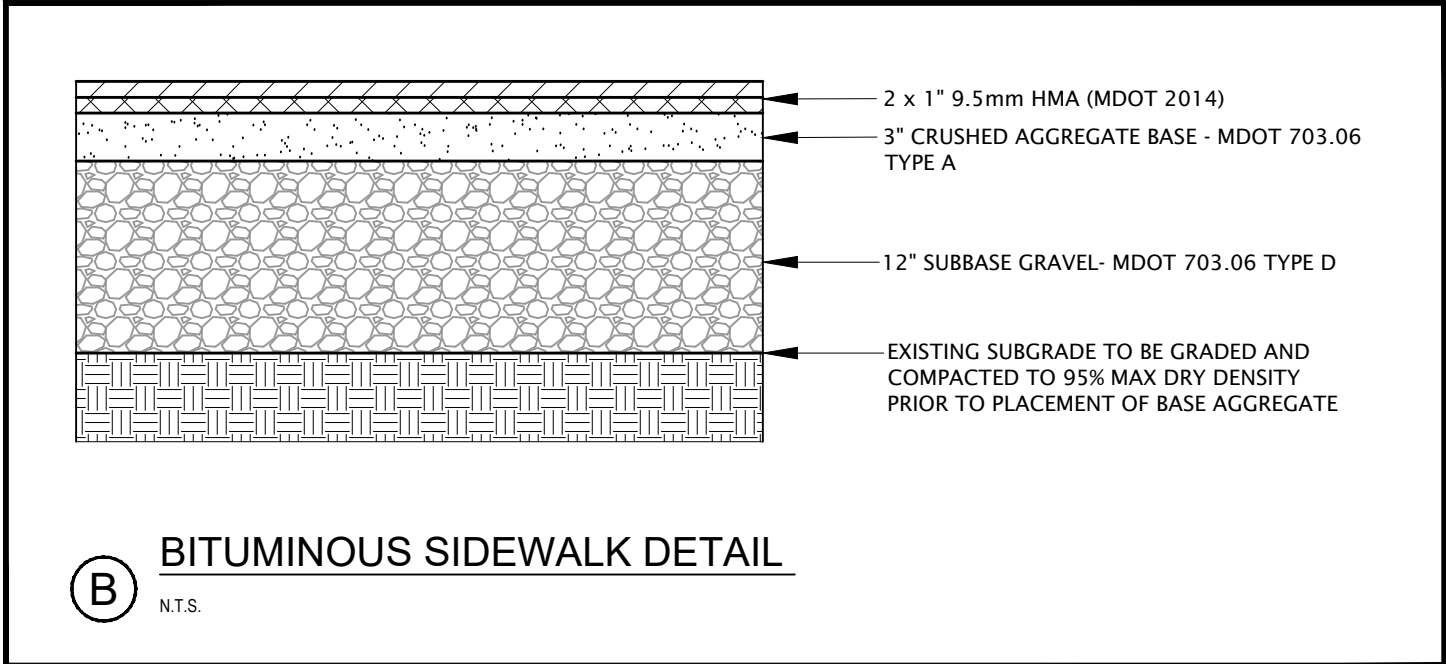
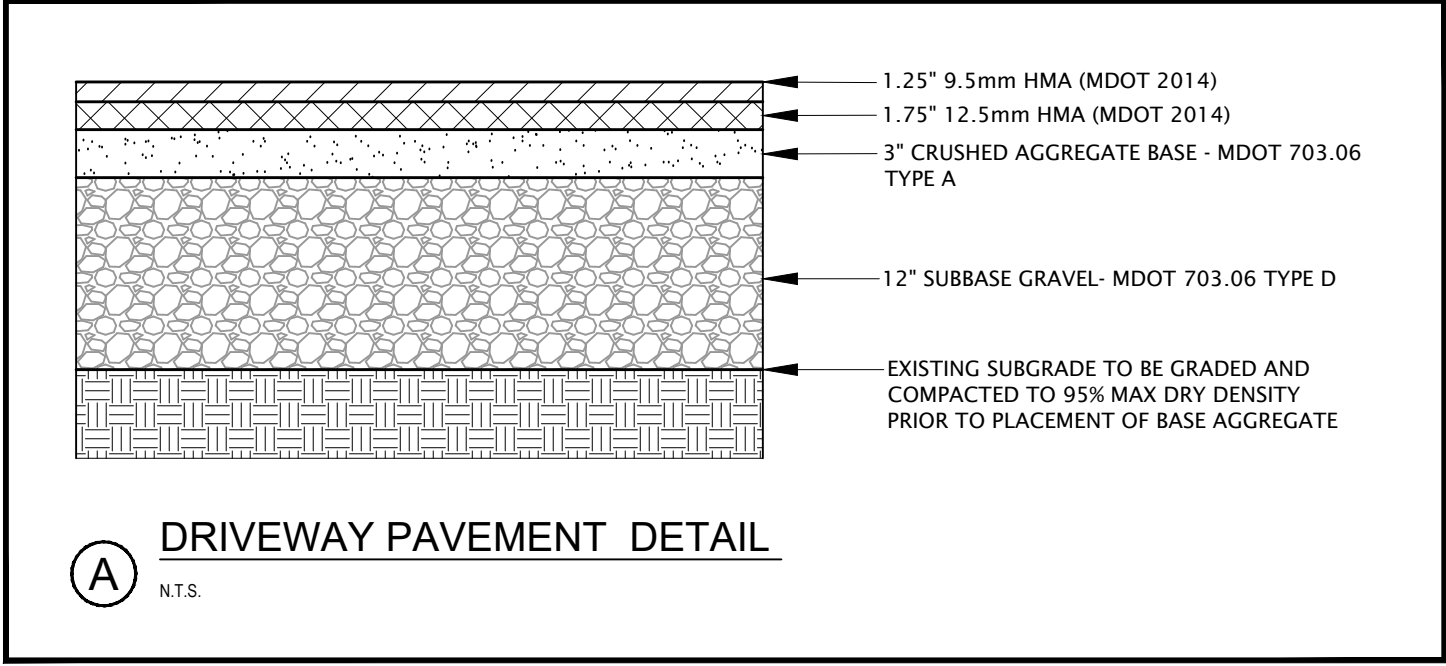

P.E. ANDREW D. JOHNSTON
LIC. #9994

GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION EROSION & SEDIMENTATION CONTROL NOTES
TOWN OF SCARBOROUGH PLANNING & PUBLIC WORKS DEPARTMENT SCARBOROUGH, MAINE 04074

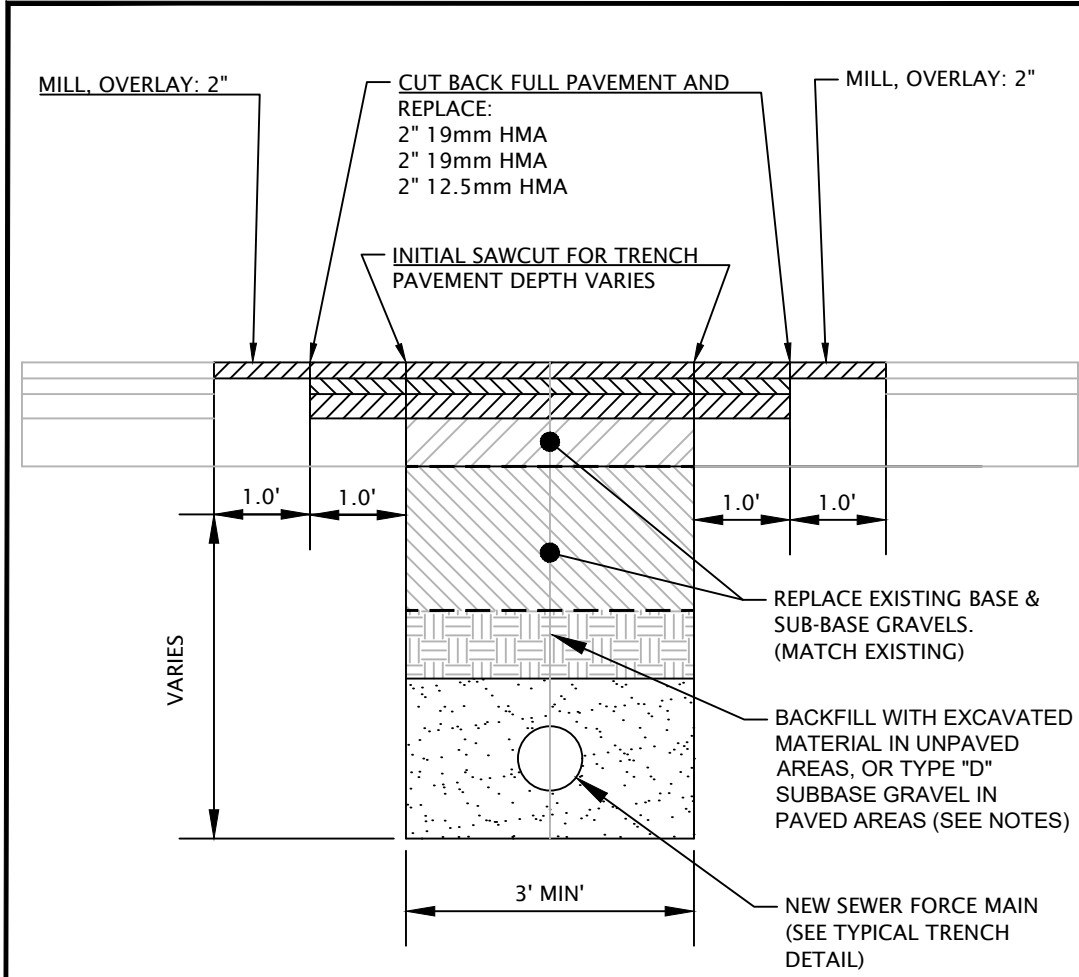
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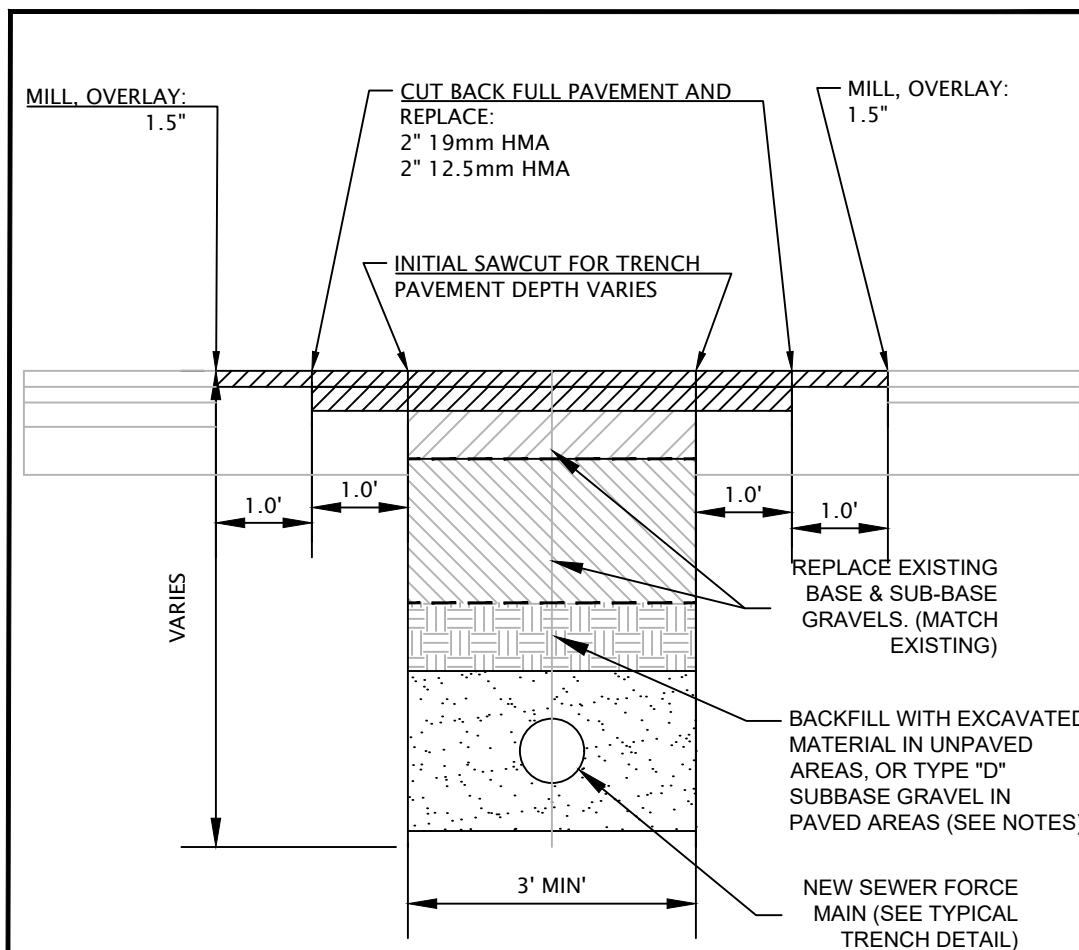


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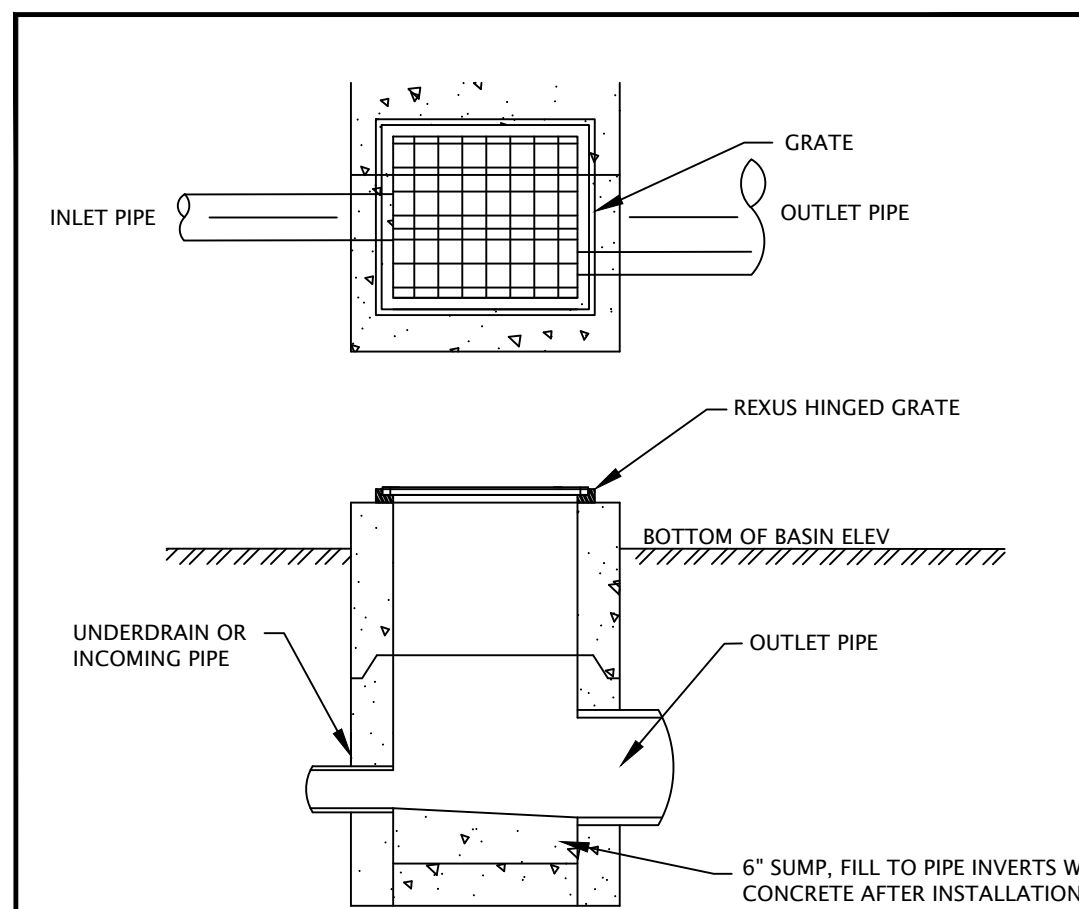
- TRENCHING AND RESTORATION NOTES:**
- BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - EXCAVATED MATERIAL MAY BE USED FOR BACKFILL IN PAVED AREAS IF THE MATERIAL MEETS THE SPECIFICATION FOR TYPE D OR TYPE E SUBBASE GRAVEL PER MDOT SPECIFICATIONS

A **FORCE MAIN TRENCH REPAIR DETAIL**
MILL AND OVERLAY AREAS

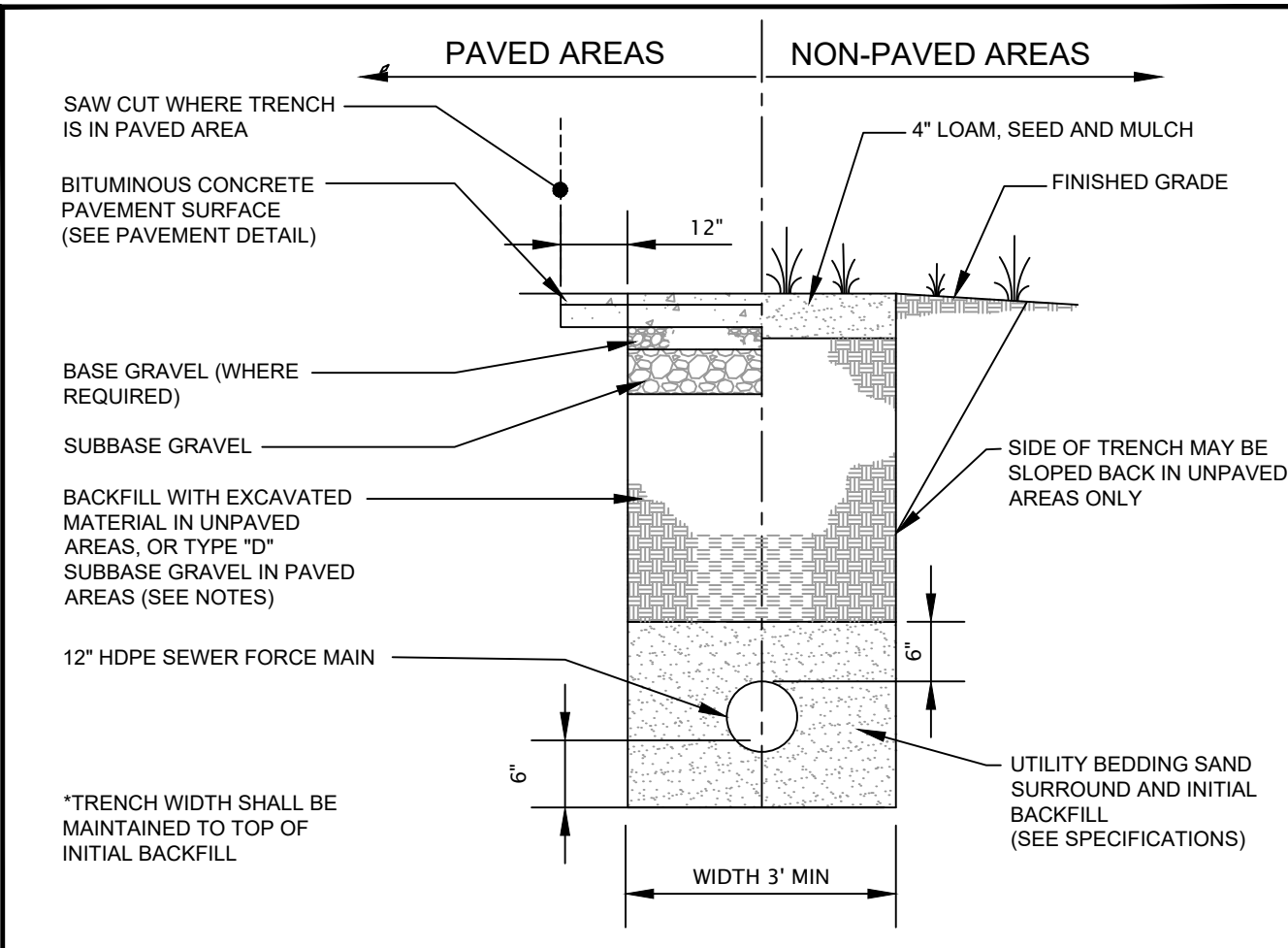


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B **FORCE MAIN TRENCH REPAIR DETAIL**
RECONSTRUCTION AREAS

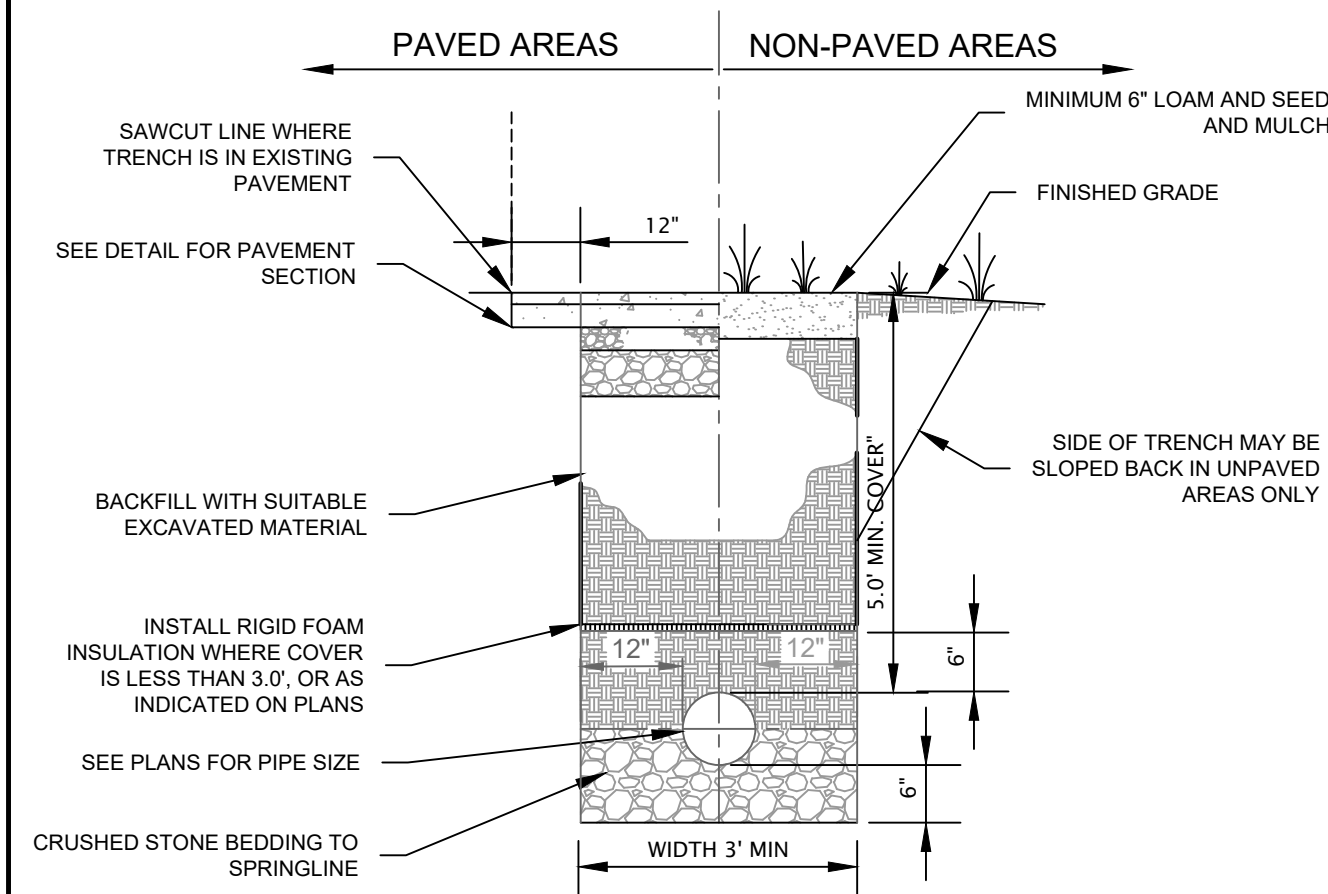


C **TYPE "F" CATCH BASIN DETAIL**
N.T.S.



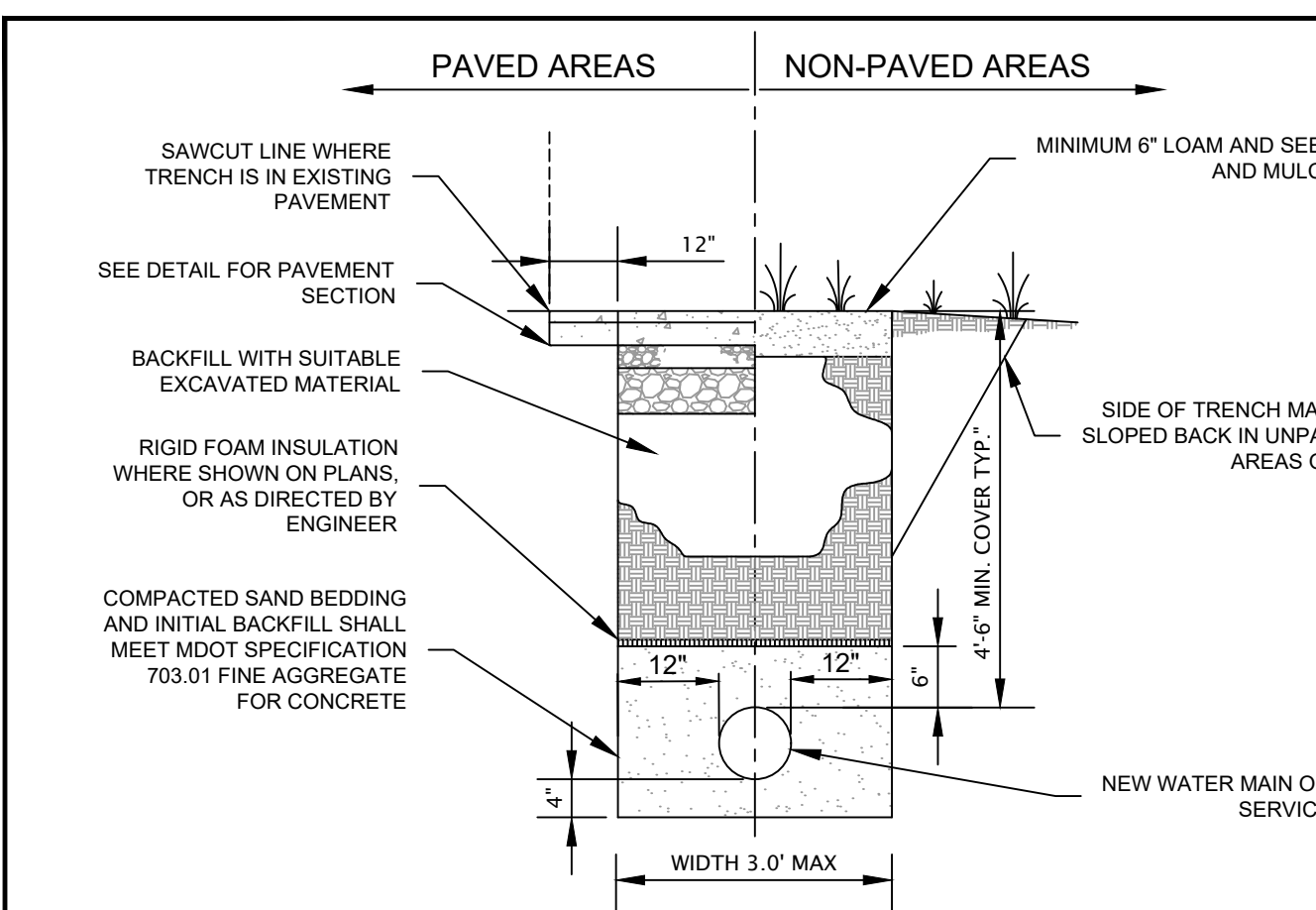
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D **TYPICAL SEWER FORCE MAIN TRENCH DETAIL**
N.T.S.



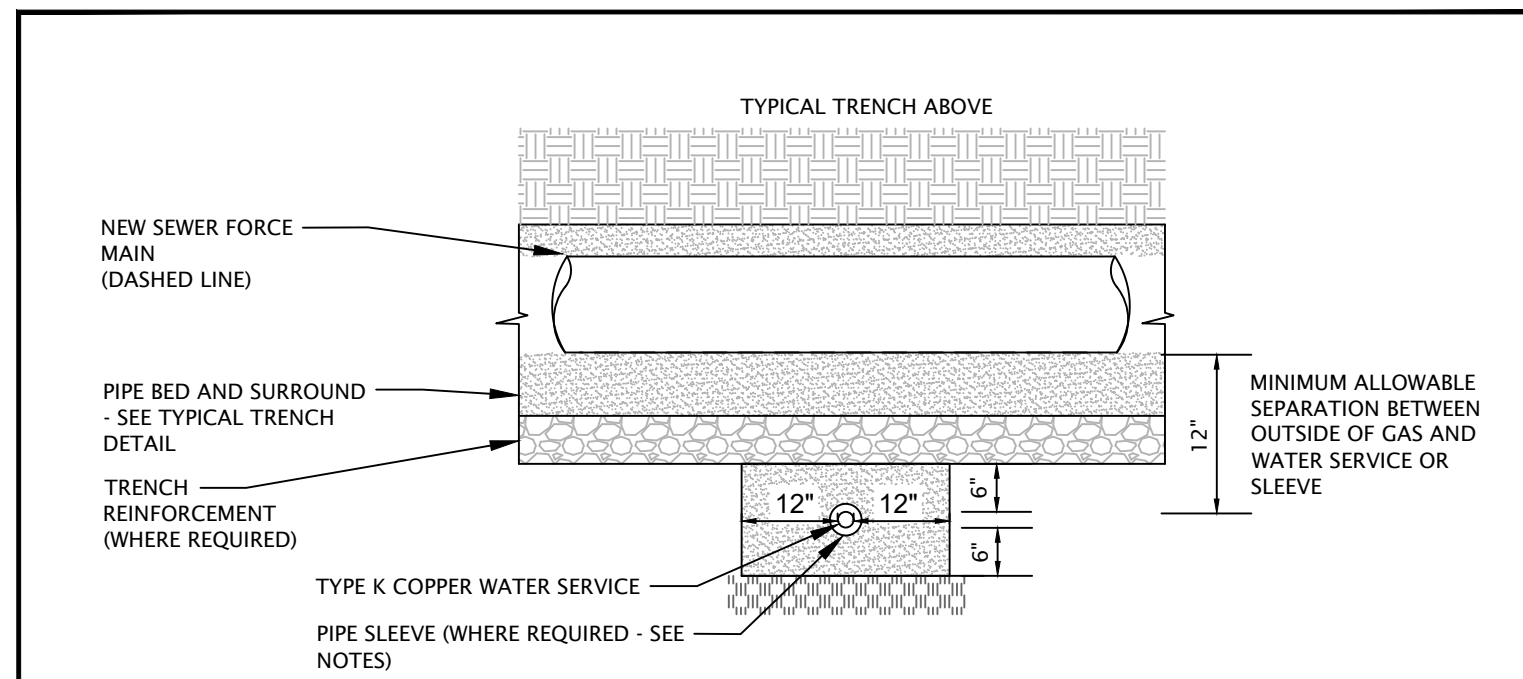
- NOTE:**
- BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

E **TYPICAL SEWER & STORM DRAIN TRENCH DETAIL**
N.T.S.



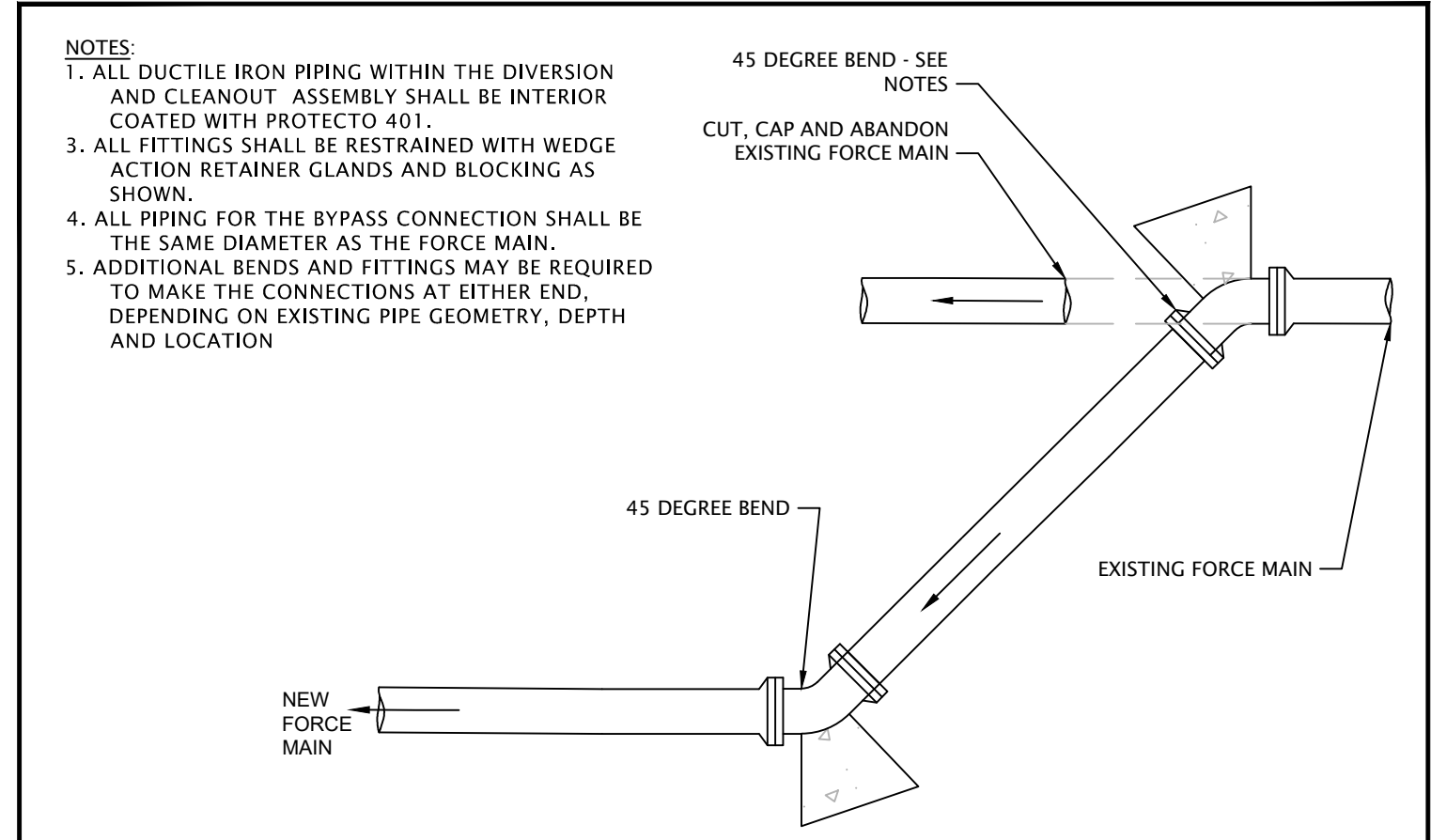
- NOTE:**
- BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

F **WATER PIPE TRENCH DETAIL**
N.T.S.

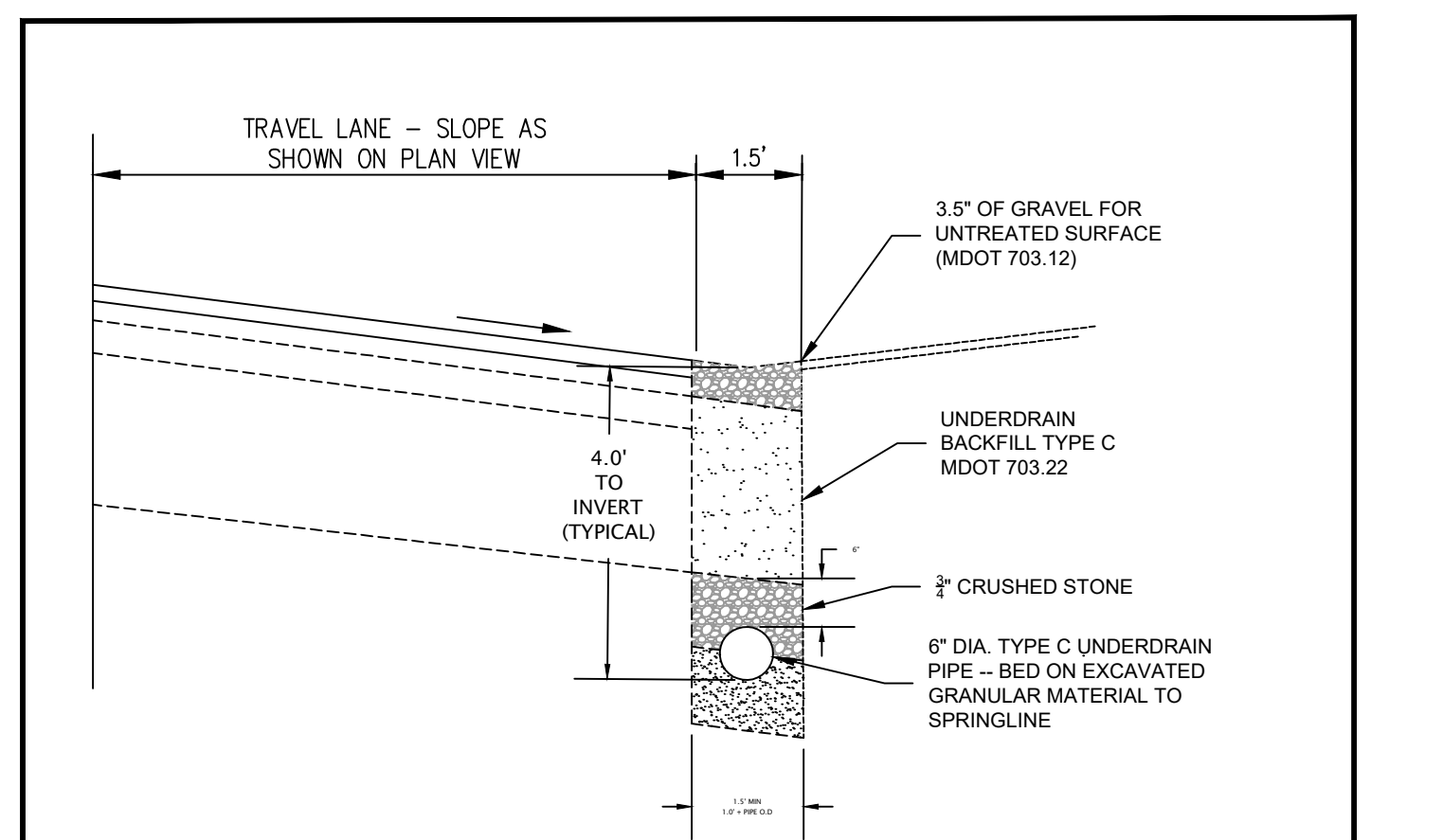


- NOTES:**
- THIS DETAIL APPLIES AT LOCATIONS WHERE NEW SEWER FORCE MAIN TRENCH CONFLICTS WITH AN EXISTING WATER SERVICE.
 - WHERE CONFLICTS OCCUR, THE CONTRACTOR SHALL REPLACE THE EXISTING SERVICE IN A SINGLE CONTINUOUS LINE FROM THE CORPORATION TO THE CURB STOP, IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PORTLAND WATER DISTRICT.
 - TEMPORARY REPAIRS MAY BE MADE TO MAINTAIN EXISTING SERVICES DURING THE WORK, PROVIDED THAT SERVICE RENEWAL IN ACCORDANCE WITH THE STANDARDS ABOVE IS UNDERTAKEN AS SOON AS TRAFFIC CONTROL ALLOWS.
 - IN THE EVENT THAT THE CONTRACTOR UNDERTAKES TEMPORARY SERVICE REPAIRS IN ORDER TO BACKFILL THE SEWER TRENCH, A TEMPORARY SLEEVE, OR OTHER SUITABLE APPROVED MEASURE SHALL BE INSTALLED SUCH THAT THE NEW PERMANENT SERVICE CAN BE INSTALLED WITHOUT DISTURBING THE SEWER TRENCH, OR PULLING PIPE DIRECTLY UNDER THE FORCE MAIN. THE SLEEVE SHALL EXTEND A MINIMUM OF TWO FEET FROM THE NEAREST POINT ON THE NEW FORCE MAIN.

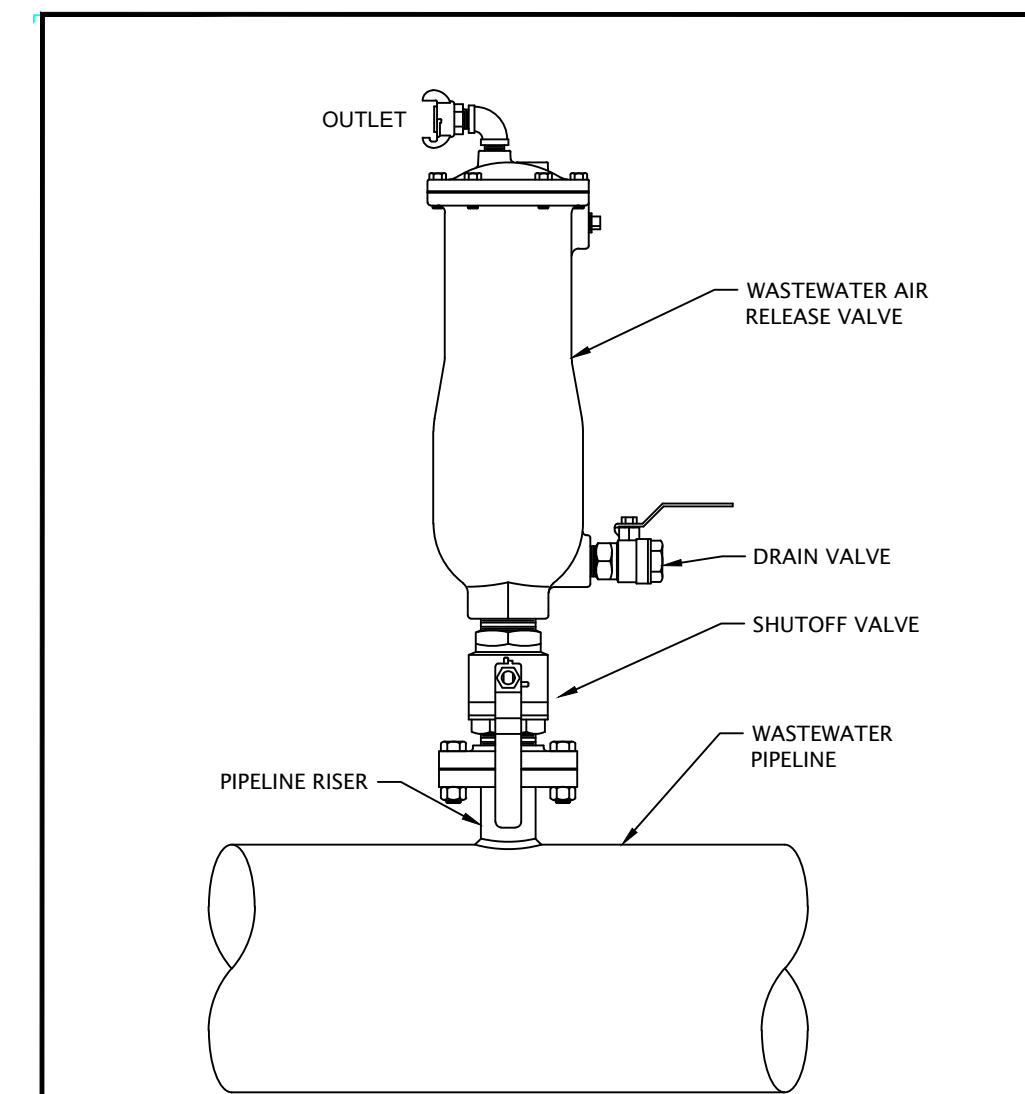
G **WATER SERVICE REPLACEMENT DETAIL**
N.T.S.



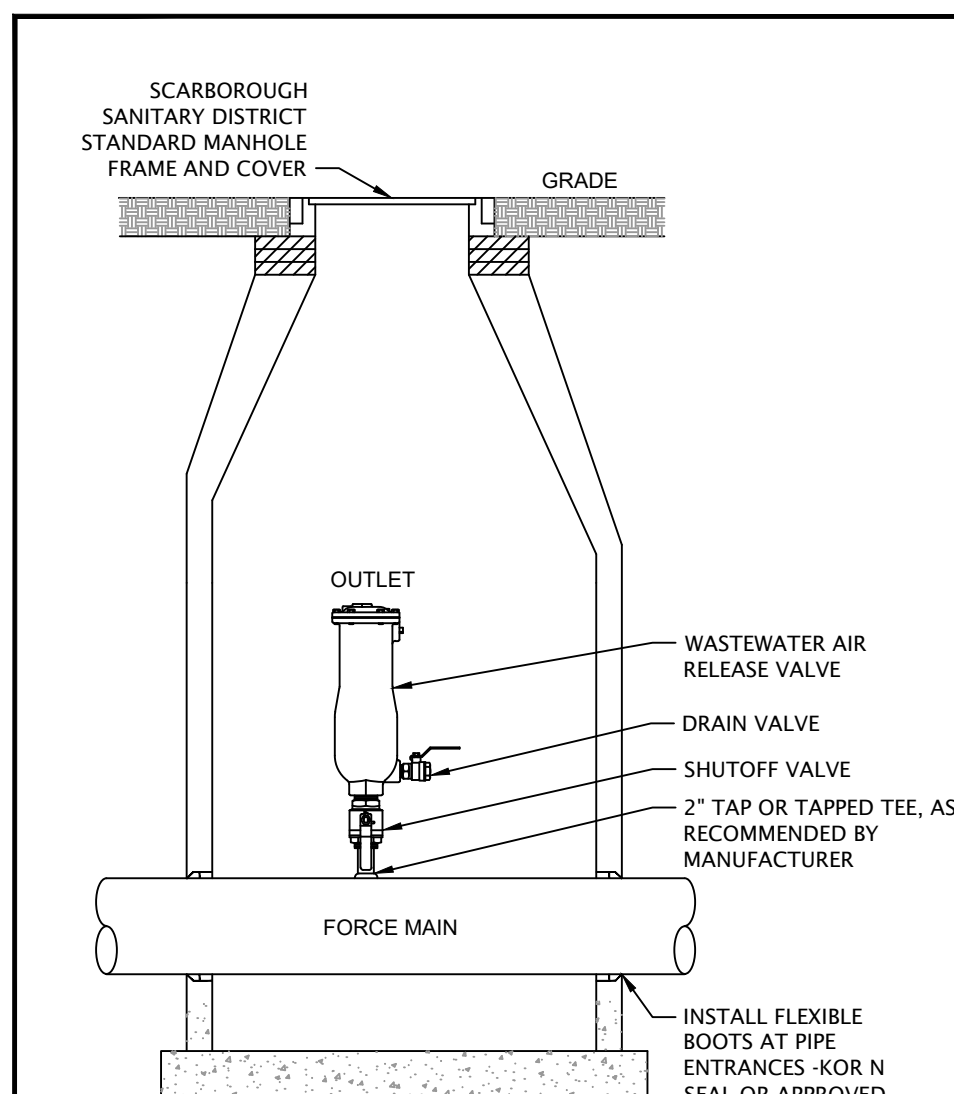
H **FORCE MAIN RE-ROUTING DETAIL**
DOWNSTREAM END SHOWN - OPPOSITE CONFIGURATION APPLIES AT UPSTREAM END



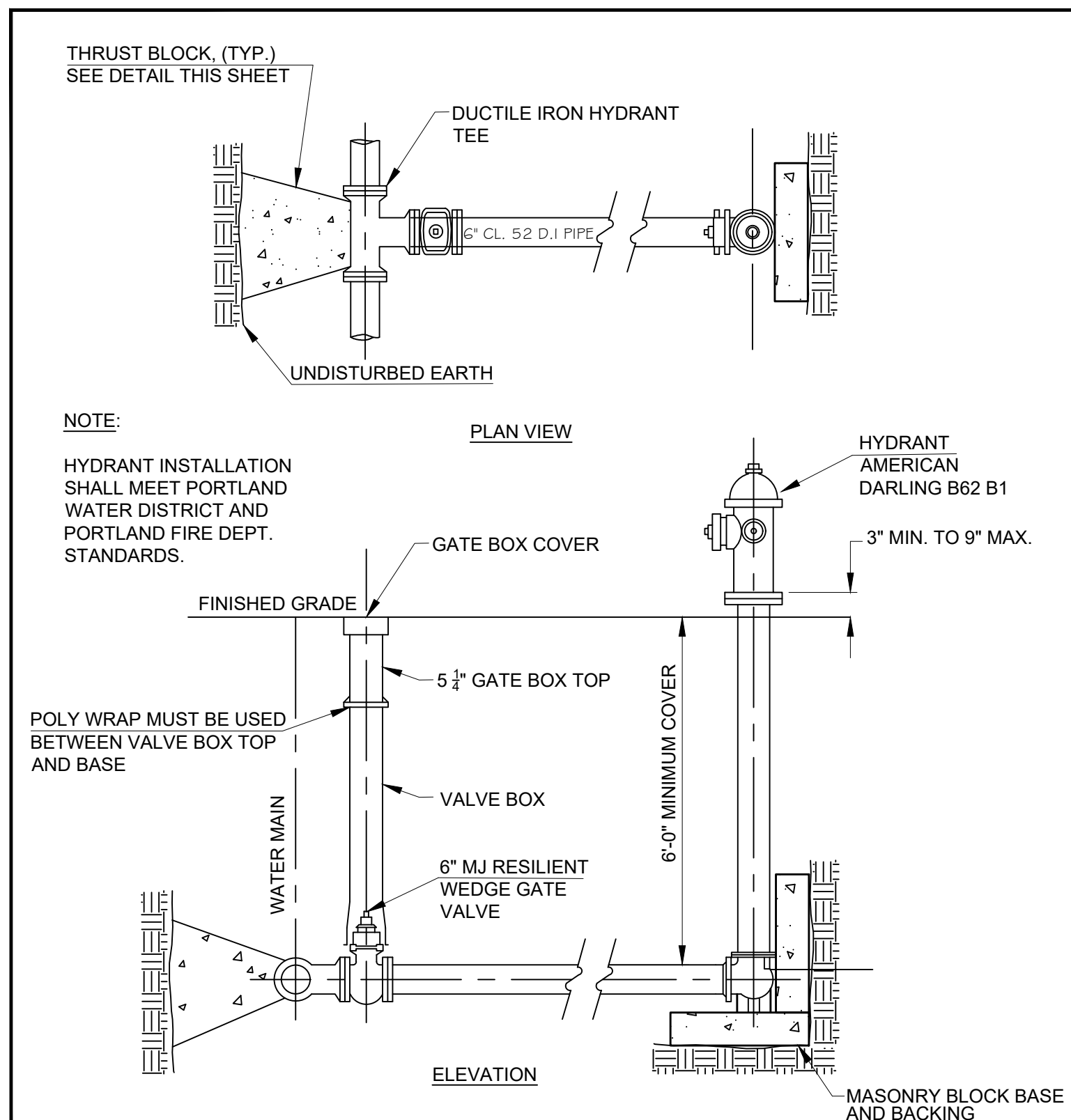
I **ROADWAY UNDERDRAIN DETAIL**
N.T.S.



J **FORCE MAIN AIR RELEASE VALVE**
VAL-MATIC VM-AV07-001-0



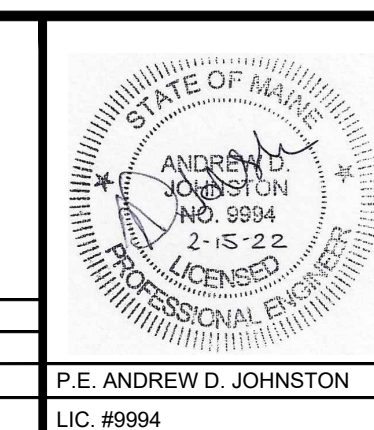
K **AIR RELEASE VALVE MANHOLE**
VAL-MATIC VM-AV07-001-0



L **FIRE HYDRANT DETAIL**
N.T.S.

ISSUED FOR BIDDING

REV	DATE	DESCRIPTION	REVISIONS



GORHAM ROAD / RTE. 114
PHASE II RECONSTRUCTION
SITE CIVIL
DETAILS II
TOWN OF SCARBOROUGH
PLANNING & PUBLIC WORKS DEPARTMENT
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050
DRAWN: MPV
DESIGNED: ADJ
CHECKED: ADJ
FILE NAME:
SHEET: C-5.4
DATE: FEBRUARY 8, 2022
SCALE: N.T.S.
JOB NO. 18-037



				GORHAM ROAD / RTE. 114 PHASE II RECONSTRUCTION		 Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050
				SITE CIVIL		
				DETAILS III		
				TOWN OF SCARBOROUGH PLANNING & PUBLIC WORKS DEPARTMENT SCARBOROUGH, MAINE 04074		
REV	DATE	DESCRIPTION	P.E. ANDREW D. JOHNSTON LIC. #9994			DRAWN: MPV DESIGNED: ADJ CHECKED: ADJ FILE NAME:
REVISIONS						DATE: FEBRUARY 8, 2022 SCALE: N.T.S. JOB NO. 18-037 SHEET: C-5.5